

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1022**

Communication System: UID 0 - CW; Frequency: 3900 MHz, Frequency: 4100 MHz

Medium parameters used:  $f = 3900$  MHz;  $\sigma = 3.23$  S/m;  $\epsilon_r = 37.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>,Medium parameters used:  $f = 4100$  MHz;  $\sigma = 3.41$  S/m;  $\epsilon_r = 37$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(7.25, 7.25, 7.25) @ 3900 MHz, ConvF(7.05, 7.05, 7.05) @ 4100 MHz; Calibrated: 25.03.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

**Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.25 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 20.0 W/kg

**SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2.46 W/kg**

Maximum value of SAR (measured) = 13.7 W/kg

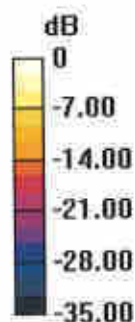
**Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=4100MHz/Zoom Scan, dist=1.4mm (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.96 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.0 W/kg

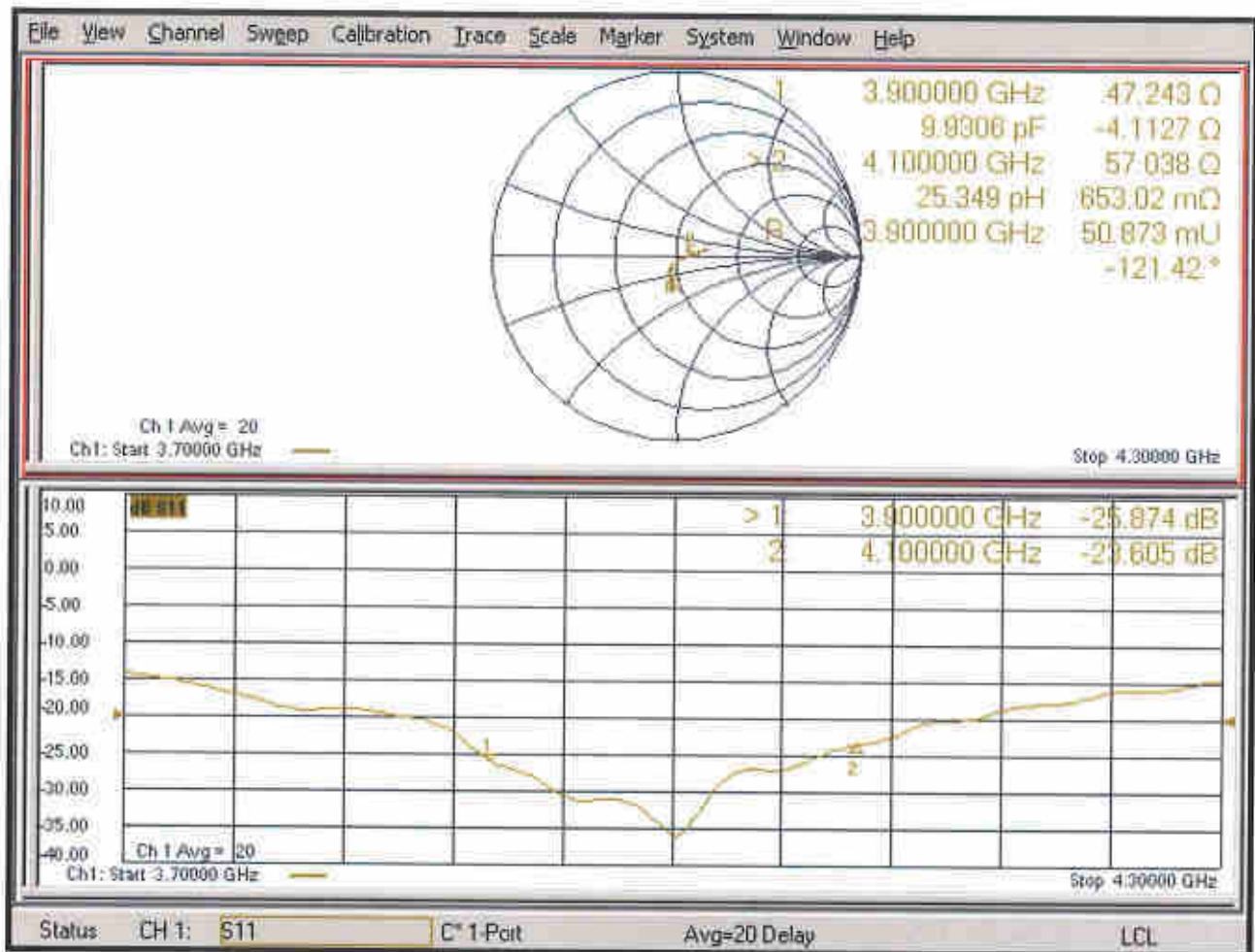
**SAR(1 g) = 6.64 W/kg; SAR(10 g) = 2.32 W/kg**

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

## Impedance Measurement Plot for Head TSL





## D3900V2, Serial No. 1022 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| D3900V2 – serial no. 1022 |                  |           |                      |             |                           |             |
|---------------------------|------------------|-----------|----------------------|-------------|---------------------------|-------------|
| 3900 Head                 |                  |           |                      |             |                           |             |
| Date of Measurement       | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (ohm) | Delta (ohm) |
| 2019.7.11                 | -25.9            |           | 47.2                 |             | -4.1                      |             |
| 2020.7.7                  | -26.3            | -1.5      | 47.9                 | 0.7         | -1.7                      | 2.4         |
| D3900V2 – serial no. 1022 |                  |           |                      |             |                           |             |
| 4100 Head                 |                  |           |                      |             |                           |             |
| Date of Measurement       | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (ohm) | Delta (ohm) |
| 2019.7.11                 | -23.6            |           | 57.0                 |             | 0.7                       |             |
| 2020.7.7                  | -23.3            | 1.3       | 58.2                 | 1.2         | -1.1                      | -1.8        |

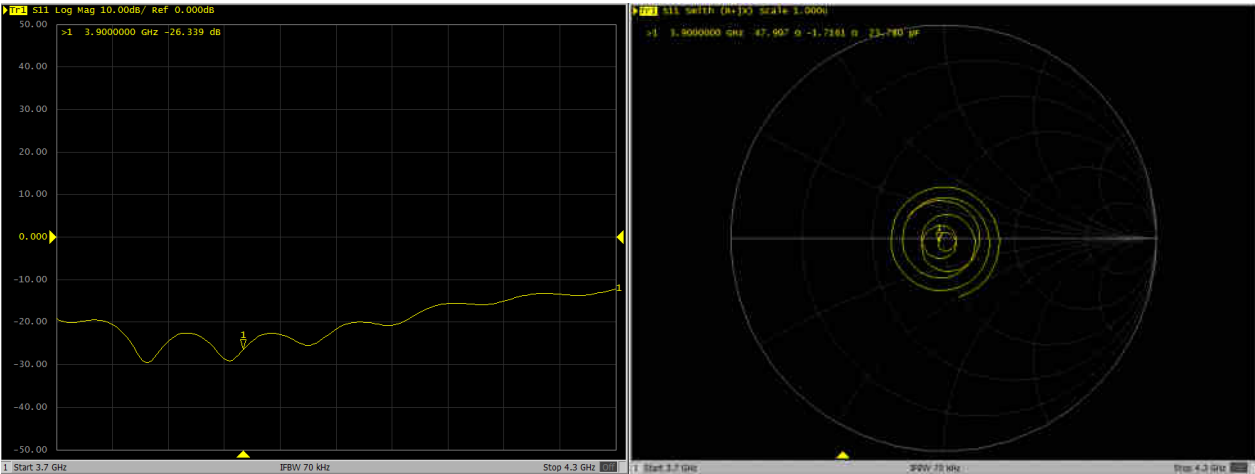
### <Justification of the extended calibration>

The return loss is  $< -20\text{dB}$ , within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

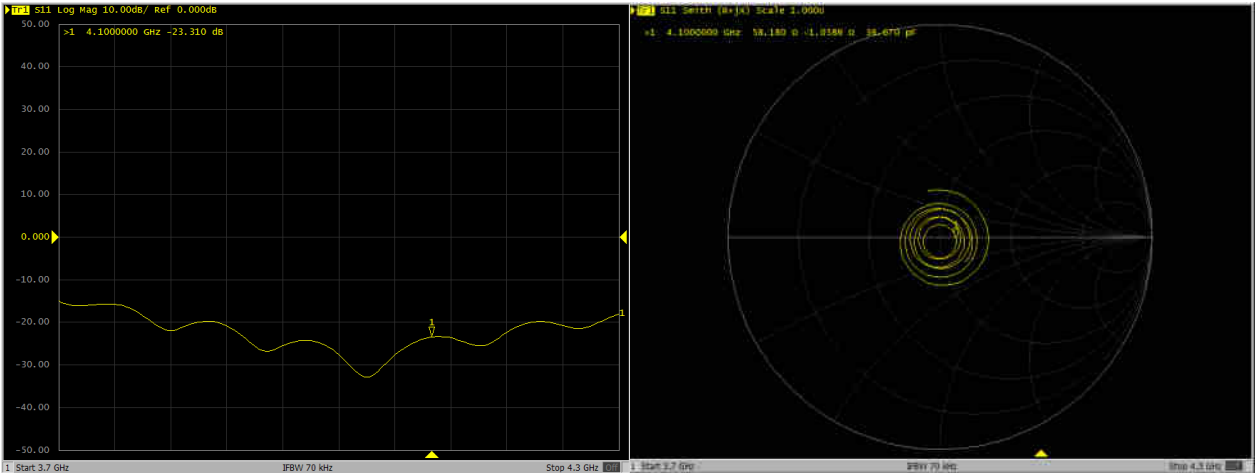


Dipole Verification Data> D3900V2, serial no. 1022

3900MHz - Head



4100MHz - Head





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **D5GHzV2-1113\_Sep19**

## CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN:1113**

Calibration procedure(s) **QA CAL-22.v4  
Calibration Procedure for SAR Validation Sources between 3-6 GHz**

Calibration date: **September 24, 2019**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards           | ID #               | Cal Date (Certificate No.)      | Scheduled Calibration |
|-----------------------------|--------------------|---------------------------------|-----------------------|
| Power meter NRP             | SN: 104778         | 03-Apr-19 (No. 217-02892/02893) | Apr-20                |
| Power sensor NRP-Z91        | SN: 103244         | 03-Apr-19 (No. 217-02892)       | Apr-20                |
| Power sensor NRP-Z91        | SN: 103245         | 03-Apr-19 (No. 217-02893)       | Apr-20                |
| Reference 20 dB Attenuator  | SN: 5058 (20k)     | 04-Apr-19 (No. 217-02894)       | Apr-20                |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-19 (No. 217-02895)       | Apr-20                |
| Reference Probe EX3DV4      | SN: 3503           | 25-Mar-19 (No. EX3-3503_Mar19)  | Mar-20                |
| DAE4                        | SN: 601            | 30-Apr-19 (No. DAE4-601_Apr19)  | Apr-20                |

| Secondary Standards             | ID #           | Check Date (in house)             | Scheduled Check        |
|---------------------------------|----------------|-----------------------------------|------------------------|
| Power meter E4419B              | SN: GB39512475 | 30-Oct-14 (in house check Feb-19) | In house check: Oct-20 |
| Power sensor HP 8481A           | SN: US37292783 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| Power sensor HP 8481A           | SN: MY41092317 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| RF generator R&S SMT-06         | SN: 100972     | 15-Jun-15 (in house check Oct-18) | In house check: Oct-20 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-18) | In house check: Oct-19 |

|                |                               |                                          |               |
|----------------|-------------------------------|------------------------------------------|---------------|
| Calibrated by: | Name<br><b>Jeton Kastrati</b> | Function<br><b>Laboratory Technician</b> | Signature<br> |
| Approved by:   | <b>Katja Pokovic</b>          | <b>Technical Manager</b>                 |               |

Issued: September 25, 2019

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Accreditation No.: **SCS 0108**

**Glossary:**

|       |                                 |
|-------|---------------------------------|
| TSL   | tissue simulating liquid        |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A   | not applicable or not measured  |

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

- DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

## Measurement Conditions

DASY system configuration, as far as not given on page 1.

|                              |                                                                      |                                  |
|------------------------------|----------------------------------------------------------------------|----------------------------------|
| DASY Version                 | DASY5                                                                | V52.10.2                         |
| Extrapolation                | Advanced Extrapolation                                               |                                  |
| Phantom                      | Modular Flat Phantom V5.0                                            |                                  |
| Distance Dipole Center - TSL | 10 mm                                                                | with Spacer                      |
| Zoom Scan Resolution         | dx, dy = 4.0 mm, dz = 1.4 mm                                         | Graded Ratio = 1.4 (Z direction) |
| Frequency                    | 5250 MHz $\pm$ 1 MHz<br>5600 MHz $\pm$ 1 MHz<br>5750 MHz $\pm$ 1 MHz |                                  |

## Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

|                                         | Temperature         | Permittivity   | Conductivity         |
|-----------------------------------------|---------------------|----------------|----------------------|
| Nominal Head TSL parameters             | 22.0 °C             | 35.9           | 4.71 mho/m           |
| Measured Head TSL parameters            | (22.0 $\pm$ 0.2) °C | 35.1 $\pm$ 6 % | 4.53 mho/m $\pm$ 6 % |
| Head TSL temperature change during test | < 0.5 °C            | ---            | ---                  |

## SAR result with Head TSL at 5250 MHz

|                                                       |                    |                              |
|-------------------------------------------------------|--------------------|------------------------------|
| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | Condition          |                              |
| SAR measured                                          | 100 mW input power | 8.09 W/kg                    |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 80.5 W/kg $\pm$ 19.9 % (k=2) |

|                                                         |                    |                              |
|---------------------------------------------------------|--------------------|------------------------------|
| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                              |
| SAR measured                                            | 100 mW input power | 2.33 W/kg                    |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 23.1 W/kg $\pm$ 19.5 % (k=2) |

## Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

|                                         | Temperature         | Permittivity   | Conductivity         |
|-----------------------------------------|---------------------|----------------|----------------------|
| Nominal Head TSL parameters             | 22.0 °C             | 35.5           | 5.07 mho/m           |
| Measured Head TSL parameters            | (22.0 $\pm$ 0.2) °C | 34.6 $\pm$ 6 % | 4.88 mho/m $\pm$ 6 % |
| Head TSL temperature change during test | < 0.5 °C            | ---            | ---                  |

## SAR result with Head TSL at 5600 MHz

|                                                       |                    |                              |
|-------------------------------------------------------|--------------------|------------------------------|
| SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL | Condition          |                              |
| SAR measured                                          | 100 mW input power | 8.40 W/kg                    |
| SAR for nominal Head TSL parameters                   | normalized to 1W   | 83.4 W/kg $\pm$ 19.9 % (k=2) |

|                                                         |                    |                              |
|---------------------------------------------------------|--------------------|------------------------------|
| SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL | condition          |                              |
| SAR measured                                            | 100 mW input power | 2.40 W/kg                    |
| SAR for nominal Head TSL parameters                     | normalized to 1W   | 23.8 W/kg $\pm$ 19.5 % (k=2) |

## Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

|                                         | Temperature     | Permittivity | Conductivity     |
|-----------------------------------------|-----------------|--------------|------------------|
| Nominal Head TSL parameters             | 22.0 °C         | 35.4         | 5.22 mho/m       |
| Measured Head TSL parameters            | (22.0 ± 0.2) °C | 34.4 ± 6 %   | 5.03 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C        | ----         | ----             |

## SAR result with Head TSL at 5750 MHz

|                                                             |                    |                                 |
|-------------------------------------------------------------|--------------------|---------------------------------|
| <b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b> | Condition          |                                 |
| SAR measured                                                | 100 mW input power | 8.06 W/kg                       |
| SAR for nominal Head TSL parameters                         | normalized to 1W   | <b>80.0 W/kg ± 19.9 % (k=2)</b> |

|                                                               |                    |                                 |
|---------------------------------------------------------------|--------------------|---------------------------------|
| <b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b> | condition          |                                 |
| SAR measured                                                  | 100 mW input power | 2.30 W/kg                       |
| SAR for nominal Head TSL parameters                           | normalized to 1W   | <b>22.8 W/kg ± 19.5 % (k=2)</b> |

## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL at 5250 MHz

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 51.7 $\Omega$ - 6.2 j $\Omega$ |
| Return Loss                          | - 24.0 dB                      |

### Antenna Parameters with Head TSL at 5600 MHz

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 56.0 $\Omega$ - 2.7 j $\Omega$ |
| Return Loss                          | - 24.1 dB                      |

### Antenna Parameters with Head TSL at 5750 MHz

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 56.7 $\Omega$ - 1.0 j $\Omega$ |
| Return Loss                          | - 23.9 dB                      |

### General Antenna Parameters and Design

|                                  |          |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.195 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

|                 |       |
|-----------------|-------|
| Manufactured by | SPEAG |
|-----------------|-------|

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1113**Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz,  
Frequency: 5750 MHzMedium parameters used:  $f = 5250$  MHz;  $\sigma = 4.53$  S/m;  $\epsilon_r = 35.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>,Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.88$  S/m;  $\epsilon_r = 34.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>,Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.03$  S/m;  $\epsilon_r = 34.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.4, 5.4, 5.4) @ 5250 MHz, ConvF(4.95, 4.95, 4.95) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz; Calibrated: 25.03.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,****dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 78.54 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.9 W/kg

**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.33 W/kg**

Maximum value of SAR (measured) = 18.1 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,****dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 78.00 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 31.1 W/kg

**SAR(1 g) = 8.40 W/kg; SAR(10 g) = 2.40 W/kg**

Maximum value of SAR (measured) = 19.4 W/kg

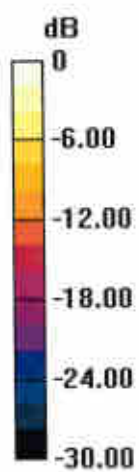
**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,****dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 75.13 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.8 W/kg

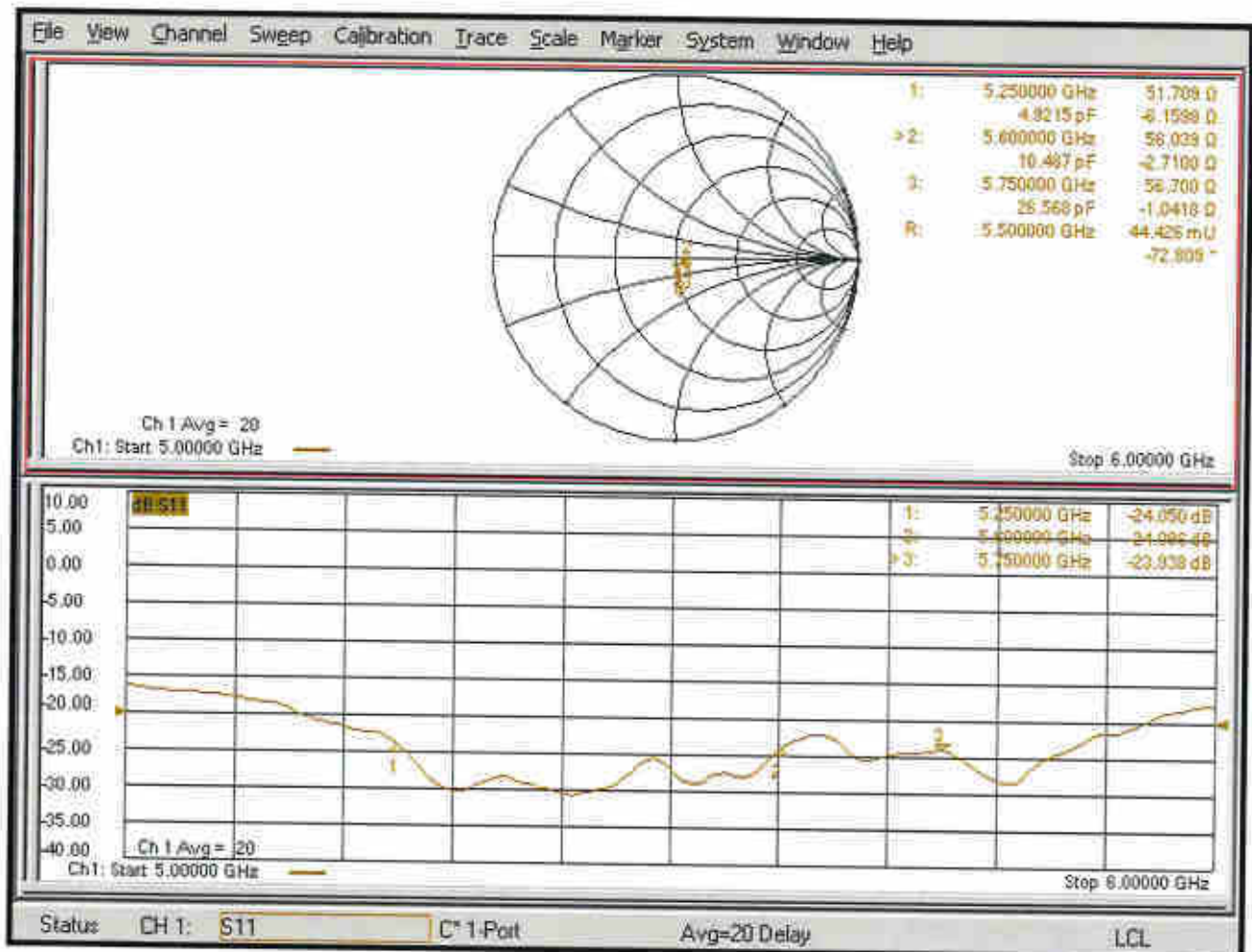
**SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.30 W/kg**

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 18.1 W/kg = 12.58 dBW/kg

## Impedance Measurement Plot for Head TSL



## D5GHzV2, Serial No. 1113 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, if dipoles are verified in return loss ( $< -20\text{dB}$ , within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| D5GHzV2 – serial no. 1113 |                  |           |                      |             |                           |             |
|---------------------------|------------------|-----------|----------------------|-------------|---------------------------|-------------|
| 5250 Head                 |                  |           |                      |             |                           |             |
| Date of Measurement       | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (ohm) | Delta (ohm) |
| 2019.9.24                 | -24.05           |           | 51.71                |             | -6.16                     |             |
| 2020.9.23                 | -24.80           | -0.03     | 50.56                | 1.15        | -5.94                     | -0.22       |

| D5GHzV2 – serial no. 1113 |                  |           |                      |             |                           |             |
|---------------------------|------------------|-----------|----------------------|-------------|---------------------------|-------------|
| 5600 Head                 |                  |           |                      |             |                           |             |
| Date of Measurement       | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (ohm) | Delta (ohm) |
| 2019.9.24                 | -24.09           |           | 56.04                |             | -2.71                     |             |
| 2020.9.23                 | -23.95           | 0.01      | 57.70                | -1.66       | -2.85                     | 0.14        |

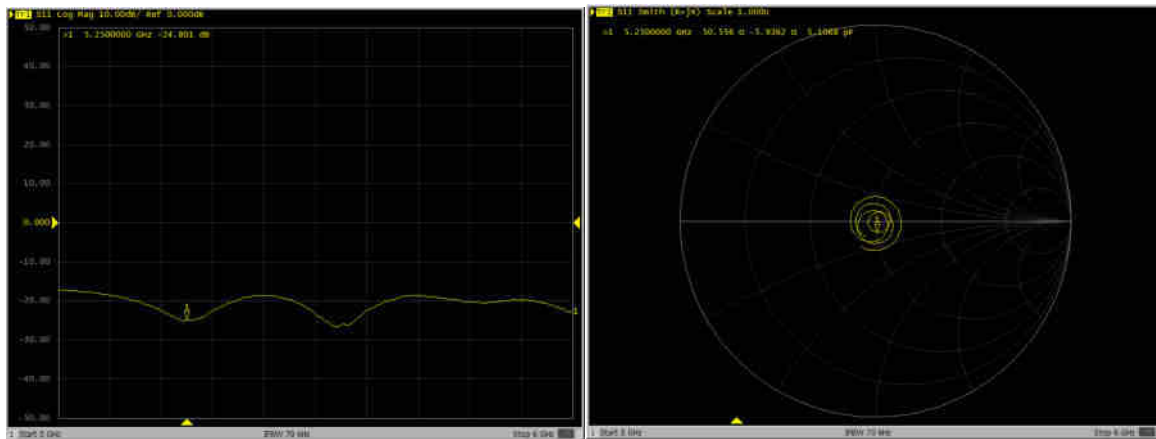
| D5GHzV2 – serial no. 1113 |                  |           |                      |             |                           |             |
|---------------------------|------------------|-----------|----------------------|-------------|---------------------------|-------------|
| 5750 Head                 |                  |           |                      |             |                           |             |
| Date of Measurement       | Return-Loss (dB) | Delta (%) | Real Impedance (ohm) | Delta (ohm) | Imaginary Impedance (ohm) | Delta (ohm) |
| 2019.9.24                 | -23.94           |           | 56.70                |             | -1.04                     |             |
| 2020.9.23                 | -21.92           | 0.08      | 58.56                | -1.86       | -1.58                     | 0.54        |

### <Justification of the extended calibration>

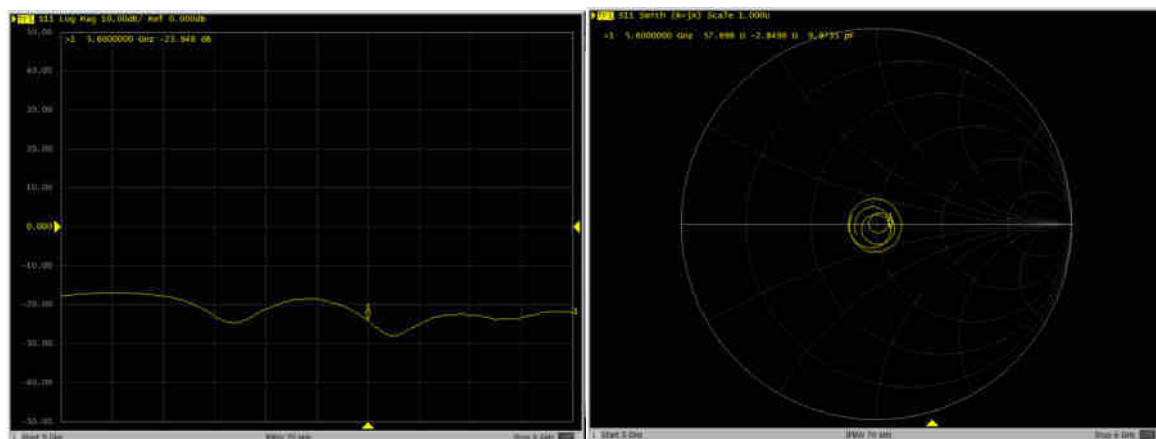
The return loss is  $< -20\text{dB}$ , within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

## Dipole Verification Data> D3700V2, serial no. 1008

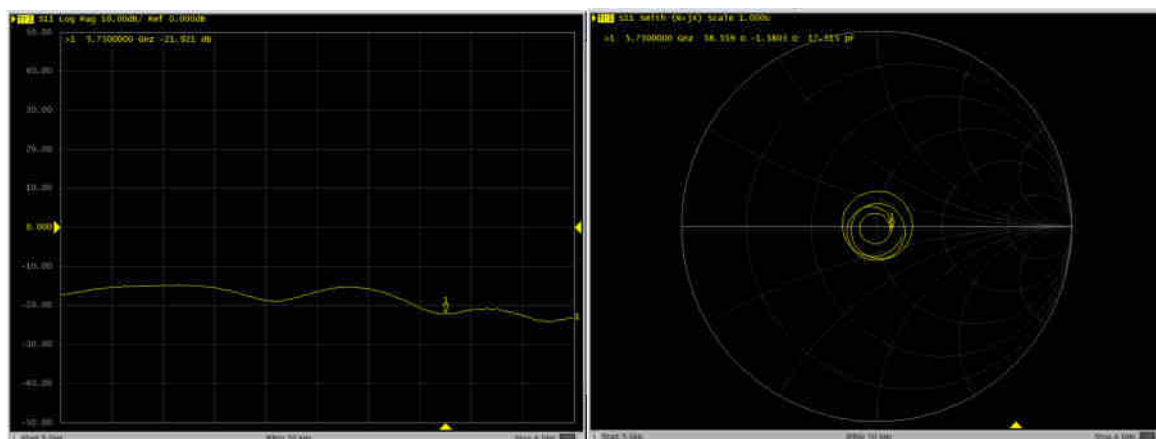
### 5250MHz – Head



### 5600MHz – Head



### 5750MHz – Head





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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **DAE4-690\_Mar20**

## CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BM - SN: 690**

Calibration procedure(s) **QA CAL-06.v30**  
**Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **March 26, 2020**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards             | ID #               | Cal Date (Certificate No.) | Scheduled Calibration  |
|-------------------------------|--------------------|----------------------------|------------------------|
| Keithley Multimeter Type 2001 | SN: 0810278        | 03-Sep-19 (No:25949)       | Sep-20                 |
| Secondary Standards           | ID #               | Check Date (in house)      | Scheduled Check        |
| Auto DAE Calibration Unit     | SE UWS 053 AA 1001 | 09-Jan-20 (in house check) | In house check: Jan-21 |
| Calibrator Box V2.1           | SE UMS 006 AA 1002 | 09-Jan-20 (in house check) | In house check: Jan-21 |

|                |                       |                                   |               |
|----------------|-----------------------|-----------------------------------|---------------|
| Calibrated by: | Name<br>Eric Hainfeld | Function<br>Laboratory Technician | Signature<br> |
| Approved by:   | Sven Kühn             | Deputy Manager                    |               |

Issued: March 26, 2020

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Accreditation No.: **SCS 0108**

## Glossary

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| DAE             | data acquisition electronics                                                            |
| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

## Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

## DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1  $\mu$ V, full range = -100...+300 mV

Low Range: 1LSB = 61 nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                         | Y                         | Z                         |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range          | 404.708 $\pm$ 0.02% (k=2) | 404.320 $\pm$ 0.02% (k=2) | 405.284 $\pm$ 0.02% (k=2) |
| Low Range           | 3.98091 $\pm$ 1.50% (k=2) | 3.99691 $\pm$ 1.50% (k=2) | 3.93809 $\pm$ 1.50% (k=2) |

## Connector Angle

|                                           |                  |
|-------------------------------------------|------------------|
| Connector Angle to be used in DASY system | 34.0 ° $\pm$ 1 ° |
|-------------------------------------------|------------------|

## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range        | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 200033.46                 | 0.84                         | 0.00      |
| Channel X + Input | 20008.04                  | 2.81                         | 0.01      |
| Channel X - Input | -20004.44                 | 1.63                         | -0.01     |
| Channel Y + Input | 200033.01                 | 0.28                         | 0.00      |
| Channel Y + Input | 20004.74                  | -0.31                        | -0.00     |
| Channel Y - Input | -20006.65                 | -0.48                        | 0.00      |
| Channel Z + Input | 200032.64                 | -2.81                        | -0.00     |
| Channel Z + Input | 20006.13                  | 1.16                         | 0.01      |
| Channel Z - Input | -20004.98                 | 1.17                         | -0.01     |

| Low Range         | Reading ( $\mu\text{V}$ ) | Difference ( $\mu\text{V}$ ) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2000.43                   | -0.43                        | -0.02     |
| Channel X + Input | 200.02                    | -0.96                        | -0.48     |
| Channel X - Input | -198.74                   | 0.19                         | -0.09     |
| Channel Y + Input | 2001.49                   | 0.62                         | 0.03      |
| Channel Y + Input | 200.61                    | -0.27                        | -0.13     |
| Channel Y - Input | -200.64                   | -1.61                        | 0.81      |
| Channel Z + Input | 2001.03                   | 0.27                         | 0.01      |
| Channel Z + Input | 200.69                    | -0.18                        | -0.09     |
| Channel Z - Input | -199.00                   | 0.18                         | -0.09     |

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Common mode Input Voltage (mV) | High Range Average Reading ( $\mu\text{V}$ ) | Low Range Average Reading ( $\mu\text{V}$ ) |
|-----------|--------------------------------|----------------------------------------------|---------------------------------------------|
| Channel X | 200                            | 14.15                                        | 12.87                                       |
|           | - 200                          | -12.83                                       | -14.22                                      |
| Channel Y | 200                            | 2.88                                         | 2.89                                        |
|           | - 200                          | -4.30                                        | -4.61                                       |
| Channel Z | 200                            | 0.04                                         | 0.39                                        |
|           | - 200                          | -0.98                                        | -1.01                                       |

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Input Voltage (mV) | Channel X ( $\mu\text{V}$ ) | Channel Y ( $\mu\text{V}$ ) | Channel Z ( $\mu\text{V}$ ) |
|-----------|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Channel X | 200                | -                           | -2.69                       | -2.68                       |
| Channel Y | 200                | 7.95                        | -                           | -0.72                       |
| Channel Z | 200                | 6.90                        | 5.66                        | -                           |

#### 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16115            | 16314           |
| Channel Y | 16039            | 16490           |
| Channel Z | 16004            | 15469           |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M $\Omega$

|           | Average ( $\mu$ V) | min. Offset ( $\mu$ V) | max. Offset ( $\mu$ V) | Std. Deviation ( $\mu$ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 0.25               | -1.26                  | 1.64                   | 0.55                      |
| Channel Y | -0.70              | -1.97                  | 1.10                   | 0.51                      |
| Channel Z | 1.51               | -0.80                  | 2.84                   | 0.58                      |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

#### 7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

#### 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|----------------|-------------------|
| Supply (+ Vcc) | +7.9              |
| Supply (- Vcc) | -7.6              |

#### 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01             | +6            | +14               |
| Supply (- Vcc) | -0.01             | -8            | -9                |



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates.

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-7592\_May20**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7592**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7**  
 Calibration procedure for dosimetric E-field probes

Calibration date: **May 22, 2020**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 01-Apr-20 (No. 217-03100/03101)   | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103244       | 01-Apr-20 (No. 217-03100)         | Apr-21                 |
| Power sensor NRP-Z91       | SN: 103245       | 01-Apr-20 (No. 217-03101)         | Apr-21                 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 31-Mar-20 (No. 217-03106)         | Apr-21                 |
| DAE4                       | SN: 660          | 27-Dec-19 (No. DAE4-660_Dec19)    | Dec-20                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-19 (No. ES3-3013_Dec19)    | Dec-20                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |

|                                                                                                                 | Name           | Function              | Signature            |
|-----------------------------------------------------------------------------------------------------------------|----------------|-----------------------|----------------------|
| Calibrated by:                                                                                                  | Jeton Kastrati | Laboratory Technician |                      |
| Approved by:                                                                                                    | Katja Pokovic  | Technical Manager     |                      |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                |                       | Issued: May 27, 2020 |



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Accreditation No.: **SCS 0108**

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 Multilateral Agreement for the recognition of calibration certificates

### Glossary:

|                        |                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                    | tissue simulating liquid                                                                                                                          |
| NORM <sub>x,y,z</sub>  | sensitivity in free space                                                                                                                         |
| ConvF                  | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                        |
| DCP                    | diode compression point                                                                                                                           |
| CF                     | crest factor (1/duty_cycle) of the RF signal                                                                                                      |
| A, B, C, D             | modulation dependent linearization parameters                                                                                                     |
| Polarization $\varphi$ | $\varphi$ rotation around probe axis                                                                                                              |
| Polarization $\theta$  | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\theta = 0$ is normal to probe axis |
| Connector Angle        | information used in DASY system to align probe sensor X to the robot coordinate system                                                            |

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\theta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub> = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: In a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

## Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.66     | 0.47     | 0.46     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 98.7     | 100.2    | 98.2     |               |

## Calibration Results for Modulation Response

| UID       | Communication System Name   |   | A<br>dB | B<br>dB $\backslash\mu\text{V}$ | C     | D<br>dB | VR<br>mV | Max<br>dev.  | Max<br>Unc <sup>E</sup><br>(k=2) |
|-----------|-----------------------------|---|---------|---------------------------------|-------|---------|----------|--------------|----------------------------------|
| 0         | CW                          | X | 0.00    | 0.00                            | 1.00  | 0.00    | 143.0    | $\pm 3.3 \%$ | $\pm 4.7 \%$                     |
|           |                             | Y | 0.00    | 0.00                            | 1.00  |         | 137.6    |              |                                  |
|           |                             | Z | 0.00    | 0.00                            | 1.00  |         | 139.6    |              |                                  |
| 10352-AAA | Pulse Waveform (200Hz, 10%) | X | 20.00   | 96.67                           | 23.94 | 10.00   | 60.0     | $\pm 3.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 95.48                           | 23.94 |         | 60.0     |              |                                  |
|           |                             | Z | 20.00   | 95.35                           | 23.55 |         | 60.0     |              |                                  |
| 10353-AAA | Pulse Waveform (200Hz, 20%) | X | 20.00   | 98.13                           | 23.72 | 6.99    | 80.0     | $\pm 1.6 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 96.17                           | 23.28 |         | 80.0     |              |                                  |
|           |                             | Z | 20.00   | 99.34                           | 24.32 |         | 80.0     |              |                                  |
| 10354-AAA | Pulse Waveform (200Hz, 40%) | X | 20.00   | 103.13                          | 24.87 | 3.98    | 95.0     | $\pm 1.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 100.39                          | 24.05 |         | 95.0     |              |                                  |
|           |                             | Z | 20.00   | 107.03                          | 26.46 |         | 95.0     |              |                                  |
| 10355-AAA | Pulse Waveform (200Hz, 60%) | X | 20.00   | 109.16                          | 26.39 | 2.22    | 120.0    | $\pm 1.2 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 20.00   | 106.91                          | 25.85 |         | 120.0    |              |                                  |
|           |                             | Z | 20.00   | 115.84                          | 28.99 |         | 120.0    |              |                                  |
| 10387-AAA | QPSK Waveform, 1 MHz        | X | 1.66    | 64.78                           | 14.38 | 1.00    | 150.0    | $\pm 1.5 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 1.82    | 65.72                           | 15.24 |         | 150.0    |              |                                  |
|           |                             | Z | 1.64    | 65.30                           | 14.64 |         | 150.0    |              |                                  |
| 10388-AAA | QPSK Waveform, 10 MHz       | X | 2.15    | 66.68                           | 15.00 | 0.00    | 150.0    | $\pm 1.0 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 2.39    | 68.24                           | 15.90 |         | 150.0    |              |                                  |
|           |                             | Z | 2.16    | 67.14                           | 15.34 |         | 150.0    |              |                                  |
| 10396-AAA | 64-QAM Waveform, 100 kHz    | X | 2.92    | 69.89                           | 18.38 | 3.01    | 150.0    | $\pm 0.7 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 3.01    | 70.02                           | 18.55 |         | 150.0    |              |                                  |
|           |                             | Z | 2.52    | 68.22                           | 17.84 |         | 150.0    |              |                                  |
| 10399-AAA | 64-QAM Waveform, 40 MHz     | X | 3.50    | 66.65                           | 15.46 | 0.00    | 150.0    | $\pm 0.7 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 3.65    | 67.33                           | 15.92 |         | 150.0    |              |                                  |
|           |                             | Z | 3.49    | 66.76                           | 15.61 |         | 150.0    |              |                                  |
| 10414-AAA | WLAN CCDF, 64-QAM, 40MHz    | X | 4.93    | 65.49                           | 15.38 | 0.00    | 150.0    | $\pm 1.3 \%$ | $\pm 9.6 \%$                     |
|           |                             | Y | 4.87    | 65.08                           | 15.27 |         | 150.0    |              |                                  |
|           |                             | Z | 4.88    | 65.48                           | 15.46 |         | 150.0    |              |                                  |

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Page 5).

<sup>B</sup> Numerical linearization parameter; uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$V^{-1}$ | T1<br>$ms.V^{-2}$ | T2<br>$ms.V^{-1}$ | T3<br>ms | T4<br>$V^{-2}$ | T5<br>$V^{-1}$ | T6   |
|---|----------|----------|----------------------|-------------------|-------------------|----------|----------------|----------------|------|
| X | 50.2     | 372.49   | 35.00                | 18.44             | 0.06              | 5.10     | 1.55           | 0.19           | 1.01 |
| Y | 58.2     | 434.14   | 35.52                | 23.57             | 0.33              | 5.10     | 1.00           | 0.32           | 1.01 |
| Z | 46.8     | 350.57   | 35.76                | 12.03             | 0.37              | 5.09     | 0.94           | 0.20           | 1.01 |

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 9.2        |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7592

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.31   | 10.31   | 10.31   | 0.49               | 0.80                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.05   | 10.05   | 10.05   | 0.45               | 0.85                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.90    | 9.90    | 9.90    | 0.44               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.41    | 8.41    | 8.41    | 0.27               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.22    | 8.22    | 8.22    | 0.34               | 0.81                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.11    | 8.11    | 8.11    | 0.31               | 0.80                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.81    | 7.81    | 7.81    | 0.29               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.57    | 7.57    | 7.57    | 0.34               | 0.90                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.31    | 7.31    | 7.31    | 0.26               | 1.10                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 6.66    | 6.66    | 6.66    | 0.40               | 1.35                    | ± 14.0 %  |
| 3700                 | 37.7                               | 3.12                            | 6.58    | 6.58    | 6.58    | 0.40               | 1.35                    | ± 14.0 %  |
| 3900                 | 37.5                               | 3.32                            | 6.43    | 6.43    | 6.43    | 0.40               | 1.60                    | ± 14.0 %  |
| 4100                 | 37.2                               | 3.53                            | 6.15    | 6.15    | 6.15    | 0.40               | 1.60                    | ± 14.0 %  |
| 4400                 | 36.9                               | 3.84                            | 6.13    | 6.13    | 6.13    | 0.35               | 1.80                    | ± 14.0 %  |
| 4600                 | 36.7                               | 4.04                            | 5.87    | 5.87    | 5.87    | 0.35               | 1.80                    | ± 14.0 %  |
| 4800                 | 36.4                               | 4.25                            | 5.71    | 5.71    | 5.71    | 0.40               | 1.80                    | ± 14.0 %  |
| 4950                 | 36.3                               | 4.40                            | 5.47    | 5.47    | 5.47    | 0.40               | 1.80                    | ± 14.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.24    | 5.24    | 5.24    | 0.40               | 1.80                    | ± 14.0 %  |
| 5600                 | 35.5                               | 5.07                            | 4.65    | 4.65    | 4.65    | 0.40               | 1.80                    | ± 14.0 %  |
| 5750                 | 35.4                               | 5.22                            | 4.69    | 4.69    | 4.69    | 0.40               | 1.80                    | ± 14.0 %  |

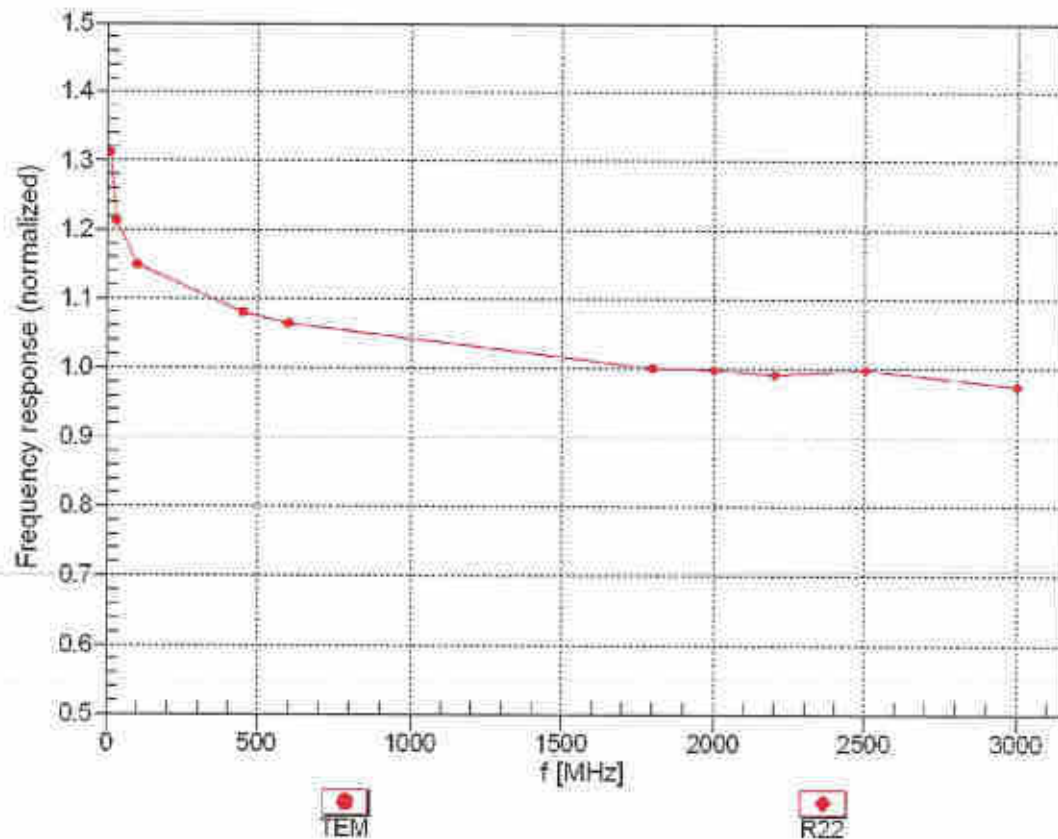
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

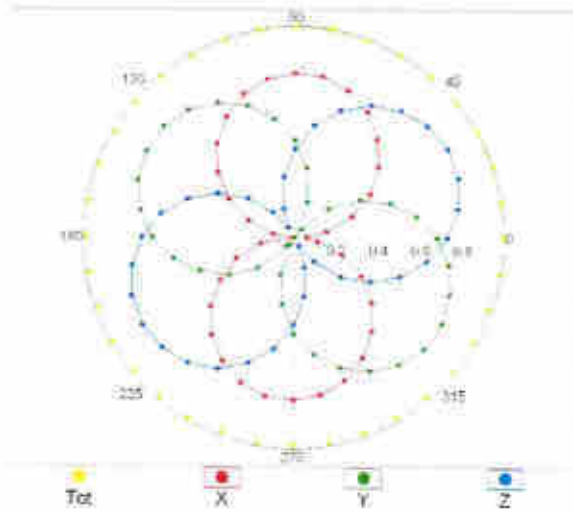
(TEM-Cell:ifi110 EXX, Waveguide: R22)



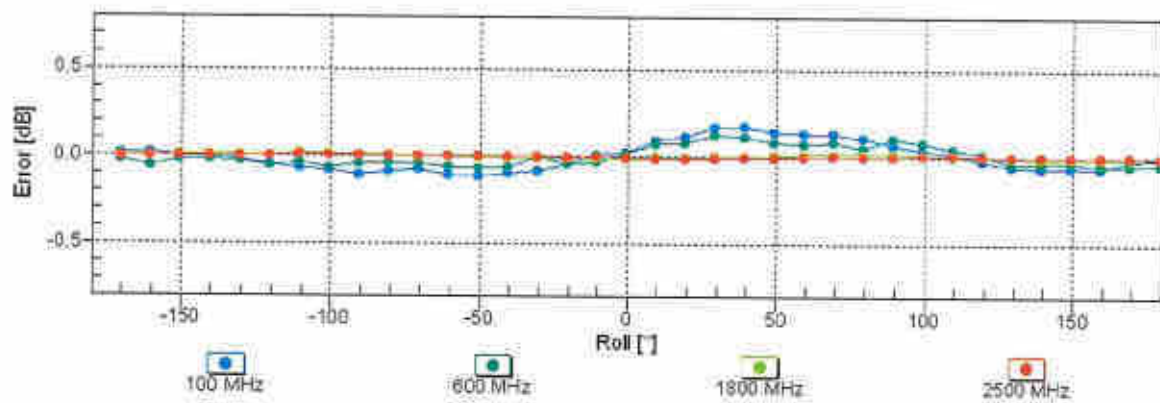
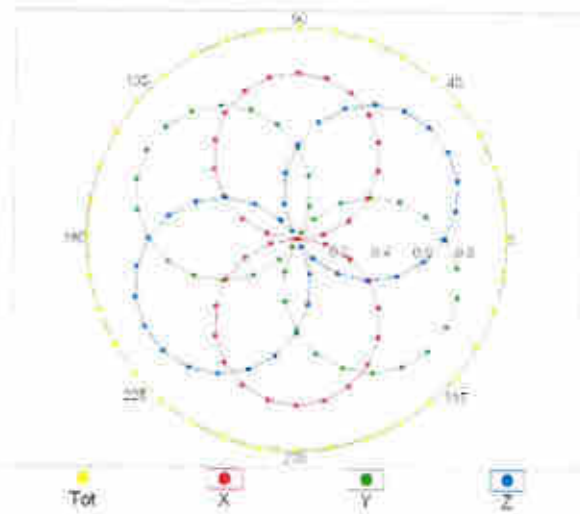
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz,TEM

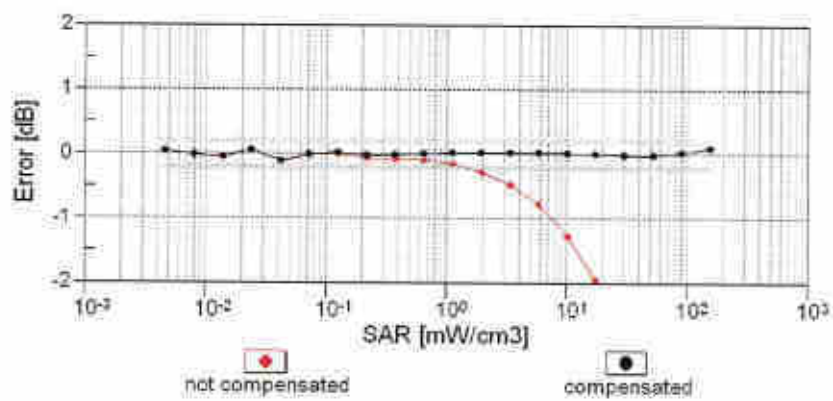
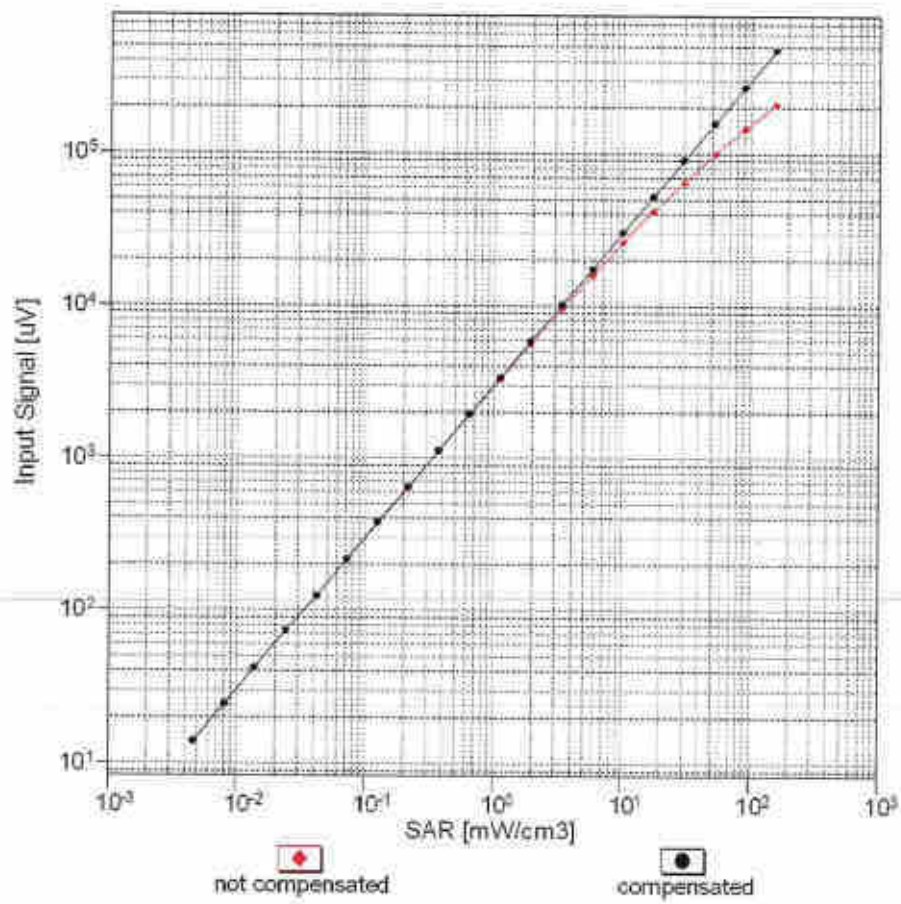


f=1800 MHz,R22



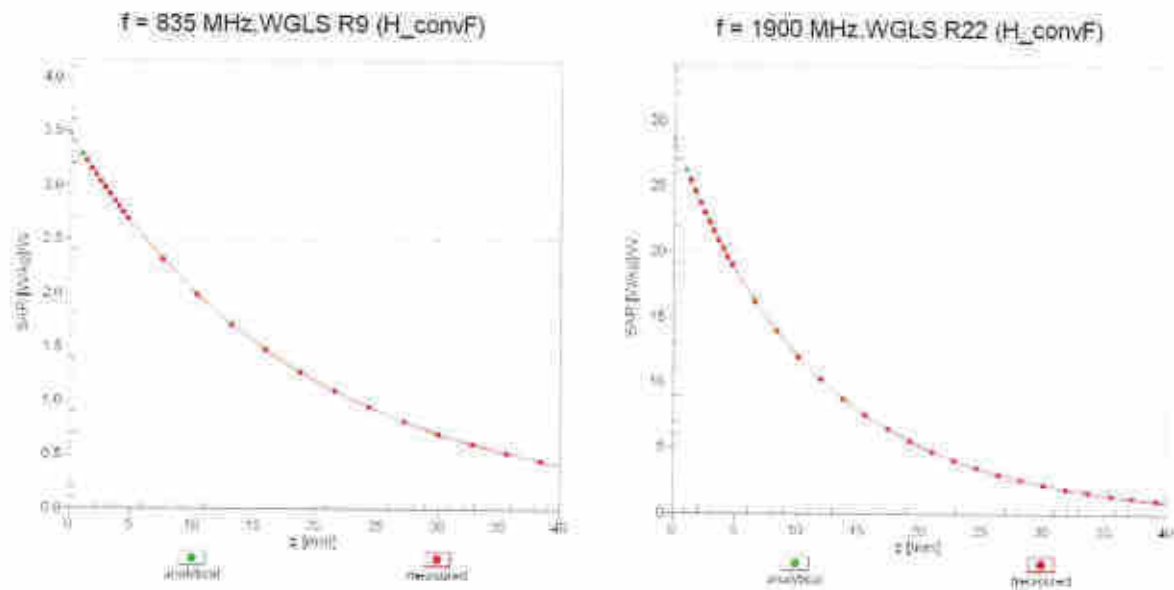
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$ )



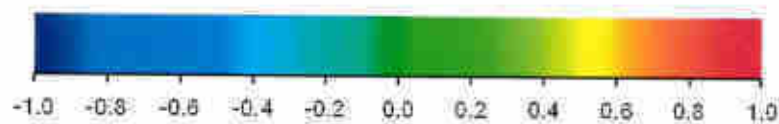
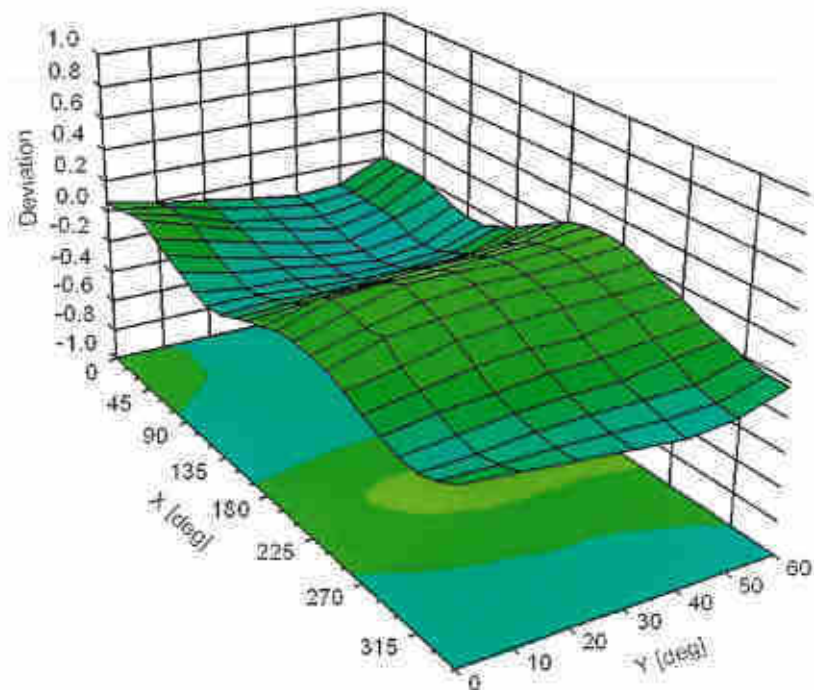
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\theta$ ),  $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment:  $\pm 2.6\%$  ( $k=2$ )

## Appendix: Modulation Calibration Parameters

| UID   | Rev | Communication System Name                           | Group     | PAR (dB) | Unc <sup>E</sup> (k=2) |
|-------|-----|-----------------------------------------------------|-----------|----------|------------------------|
| 0     |     | CW                                                  | CW        | 0.00     | ± 4.7 %                |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms)                | Test      | 10.00    | ± 9.6 %                |
| 10011 | CAB | UMTS-FDD (WCDMA)                                    | WCDMA     | 2.91     | ± 9.6 %                |
| 10012 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)            | WLAN      | 1.87     | ± 9.6 %                |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)       | WLAN      | 9.46     | ± 9.6 %                |
| 10021 | DAC | GSM-FDD (TDMA, GMSK)                                | GSM       | 9.39     | ± 9.6 %                |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0)                         | GSM       | 9.57     | ± 9.6 %                |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                       | GSM       | 6.56     | ± 9.6 %                |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                         | GSM       | 12.62    | ± 9.6 %                |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                       | GSM       | 9.55     | ± 9.6 %                |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                     | GSM       | 4.80     | ± 9.6 %                |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)                   | GSM       | 3.65     | ± 9.6 %                |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)                     | GSM       | 7.78     | ± 9.6 %                |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)                 | Bluetooth | 5.30     | ± 9.6 %                |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)                 | Bluetooth | 1.87     | ± 9.6 %                |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | Bluetooth | 1.16     | ± 9.6 %                |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | Bluetooth | 7.74     | ± 9.6 %                |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | Bluetooth | 4.53     | ± 9.6 %                |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | Bluetooth | 3.83     | ± 9.6 %                |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | Bluetooth | 8.01     | ± 9.6 %                |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | Bluetooth | 4.77     | ± 9.6 %                |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | Bluetooth | 4.10     | ± 9.6 %                |
| 10039 | CAB | CDMA2000 (1xRTT, RC1)                               | CDMA2000  | 4.57     | ± 9.6 %                |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS      | 7.78     | ± 9.6 %                |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | AMPS      | 0.00     | ± 9.6 %                |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | DECT      | 13.80    | ± 9.6 %                |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | DECT      | 10.79    | ± 9.6 %                |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | TD-SCDMA  | 11.01    | ± 9.6 %                |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | GSM       | 6.52     | ± 9.6 %                |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | WLAN      | 2.12     | ± 9.6 %                |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | WLAN      | 2.83     | ± 9.6 %                |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)           | WLAN      | 3.60     | ± 9.6 %                |
| 10062 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)            | WLAN      | 8.68     | ± 9.6 %                |
| 10063 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)            | WLAN      | 8.63     | ± 9.6 %                |
| 10064 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)           | WLAN      | 9.09     | ± 9.6 %                |
| 10065 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)           | WLAN      | 9.00     | ± 9.6 %                |
| 10066 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)           | WLAN      | 9.38     | ± 9.6 %                |
| 10067 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)           | WLAN      | 10.12    | ± 9.6 %                |
| 10068 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)           | WLAN      | 10.24    | ± 9.6 %                |
| 10069 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)           | WLAN      | 10.56    | ± 9.6 %                |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)       | WLAN      | 9.83     | ± 9.6 %                |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)      | WLAN      | 9.62     | ± 9.6 %                |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)      | WLAN      | 9.94     | ± 9.6 %                |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)      | WLAN      | 10.30    | ± 9.6 %                |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)      | WLAN      | 10.77    | ± 9.6 %                |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)      | WLAN      | 10.94    | ± 9.6 %                |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)      | WLAN      | 11.00    | ± 9.6 %                |
| 10081 | CAB | CDMA2000 (1xRTT, RC3)                               | CDMA2000  | 3.97     | ± 9.6 %                |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS      | 4.77     | ± 9.6 %                |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | GSM       | 6.56     | ± 9.6 %                |
| 10097 | CAB | UMTS-FDD (HSDPA)                                    | WCDMA     | 3.98     | ± 9.6 %                |
| 10098 | CAB | UMTS-FDD (HSUPA, Subtest 2)                         | WCDMA     | 3.98     | ± 9.6 %                |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | GSM       | 9.55     | ± 9.6 %                |
| 10100 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-FDD   | 5.67     | ± 9.6 %                |
| 10101 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-FDD   | 6.42     | ± 9.6 %                |
| 10102 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-FDD   | 6.60     | ± 9.6 %                |
| 10103 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-TDD   | 9.29     | ± 9.6 %                |
| 10104 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-TDD   | 9.97     | ± 9.6 %                |
| 10105 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-TDD   | 10.01    | ± 9.6 %                |
| 10108 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | LTE-FDD   | 5.80     | ± 9.6 %                |

|       |     |                                                |         |       |         |
|-------|-----|------------------------------------------------|---------|-------|---------|
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)     | LTE-FDD | 6.43  | ± 9.6 % |
| 10110 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)        | LTE-FDD | 5.75  | ± 9.6 % |
| 10111 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)      | LTE-FDD | 6.44  | ± 9.6 % |
| 10112 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | LTE-FDD | 6.59  | ± 9.6 % |
| 10113 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | LTE-FDD | 6.62  | ± 9.6 % |
| 10114 | CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | WLAN    | 8.10  | ± 9.6 % |
| 10115 | CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | WLAN    | 8.46  | ± 9.6 % |
| 10116 | CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN    | 8.15  | ± 9.6 % |
| 10117 | CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | WLAN    | 8.07  | ± 9.6 % |
| 10118 | CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | WLAN    | 8.59  | ± 9.6 % |
| 10119 | CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | WLAN    | 8.13  | ± 9.6 % |
| 10140 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | LTE-FDD | 6.49  | ± 9.6 % |
| 10141 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | LTE-FDD | 6.53  | ± 9.6 % |
| 10142 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | LTE-FDD | 5.73  | ± 9.6 % |
| 10143 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | LTE-FDD | 6.35  | ± 9.6 % |
| 10144 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | LTE-FDD | 6.65  | ± 9.6 % |
| 10145 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | LTE-FDD | 5.76  | ± 9.6 % |
| 10146 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | LTE-FDD | 6.41  | ± 9.6 % |
| 10147 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | LTE-FDD | 6.72  | ± 9.6 % |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-FDD | 6.42  | ± 9.6 % |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-FDD | 6.60  | ± 9.6 % |
| 10151 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)        | LTE-TDD | 9.28  | ± 9.6 % |
| 10152 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-TDD | 9.92  | ± 9.6 % |
| 10153 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)        | LTE-FDD | 5.75  | ± 9.6 % |
| 10155 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)      | LTE-FDD | 6.43  | ± 9.6 % |
| 10156 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         | LTE-FDD | 5.79  | ± 9.6 % |
| 10157 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)       | LTE-FDD | 6.49  | ± 9.6 % |
| 10158 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)      | LTE-FDD | 6.62  | ± 9.6 % |
| 10159 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)       | LTE-FDD | 6.56  | ± 9.6 % |
| 10160 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)        | LTE-FDD | 5.82  | ± 9.6 % |
| 10161 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)      | LTE-FDD | 6.43  | ± 9.6 % |
| 10162 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)      | LTE-FDD | 6.58  | ± 9.6 % |
| 10166 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)       | LTE-FDD | 5.46  | ± 9.6 % |
| 10167 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)     | LTE-FDD | 6.21  | ± 9.6 % |
| 10168 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)     | LTE-FDD | 6.79  | ± 9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-FDD | 5.73  | ± 9.6 % |
| 10170 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10171 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-FDD | 6.49  | ± 9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-TDD | 9.21  | ± 9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-TDD | 9.48  | ± 9.6 % |
| 10174 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-TDD | 10.25 | ± 9.6 % |
| 10175 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)          | LTE-FDD | 5.72  | ± 9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10177 | CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)           | LTE-FDD | 5.73  | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         | LTE-FDD | 6.52  | ± 9.6 % |
| 10179 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)        | LTE-FDD | 6.50  | ± 9.6 % |
| 10180 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         | LTE-FDD | 6.50  | ± 9.6 % |
| 10181 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)          | LTE-FDD | 5.72  | ± 9.6 % |
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)        | LTE-FDD | 6.52  | ± 9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)        | LTE-FDD | 6.50  | ± 9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)           | LTE-FDD | 5.73  | ± 9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         | LTE-FDD | 6.51  | ± 9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         | LTE-FDD | 6.50  | ± 9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         | LTE-FDD | 5.73  | ± 9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)       | LTE-FDD | 6.52  | ± 9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)       | LTE-FDD | 6.50  | ± 9.6 % |
| 10193 | CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)   | WLAN    | 8.09  | ± 9.6 % |
| 10194 | CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)  | WLAN    | 8.12  | ± 9.6 % |
| 10195 | CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)  | WLAN    | 8.21  | ± 9.6 % |
| 10196 | CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)        | WLAN    | 8.10  | ± 9.6 % |
| 10197 | CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)       | WLAN    | 8.13  | ± 9.6 % |
| 10198 | CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)       | WLAN    | 8.27  | ± 9.6 % |
| 10219 | CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)        | WLAN    | 8.03  | ± 9.6 % |

|       |     |                                             |          |       |         |
|-------|-----|---------------------------------------------|----------|-------|---------|
| 10220 | CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)  | WLAN     | 8.13  | ± 9.6 % |
| 10221 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)  | WLAN     | 8.27  | ± 9.6 % |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)      | WLAN     | 8.06  | ± 9.6 % |
| 10223 | CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)    | WLAN     | 8.48  | ± 9.6 % |
| 10224 | CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)   | WLAN     | 8.08  | ± 9.6 % |
| 10225 | CAB | UMTS-FDD (HSPA+)                            | WCDMA    | 5.97  | ± 9.6 % |
| 10226 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)    | LTE-TDD  | 9.49  | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)    | LTE-TDD  | 10.26 | ± 9.6 % |
| 10228 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)      | LTE-TDD  | 9.22  | ± 9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)      | LTE-TDD  | 9.48  | ± 9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)      | LTE-TDD  | 10.25 | ± 9.6 % |
| 10231 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)        | LTE-TDD  | 9.19  | ± 9.6 % |
| 10232 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)      | LTE-TDD  | 9.48  | ± 9.6 % |
| 10233 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)      | LTE-TDD  | 10.25 | ± 9.6 % |
| 10234 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)        | LTE-TDD  | 9.21  | ± 9.6 % |
| 10235 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)     | LTE-TDD  | 9.48  | ± 9.6 % |
| 10236 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)     | LTE-TDD  | 10.25 | ± 9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)       | LTE-TDD  | 9.21  | ± 9.6 % |
| 10238 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)     | LTE-TDD  | 9.48  | ± 9.6 % |
| 10239 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)     | LTE-TDD  | 10.25 | ± 9.6 % |
| 10240 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)       | LTE-TDD  | 9.21  | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)  | LTE-TDD  | 9.82  | ± 9.6 % |
| 10242 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)  | LTE-TDD  | 9.86  | ± 9.6 % |
| 10243 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)    | LTE-TDD  | 9.46  | ± 9.6 % |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)    | LTE-TDD  | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)    | LTE-TDD  | 10.06 | ± 9.6 % |
| 10246 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)      | LTE-TDD  | 9.30  | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)    | LTE-TDD  | 9.91  | ± 9.6 % |
| 10248 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)    | LTE-TDD  | 10.09 | ± 9.6 % |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)      | LTE-TDD  | 9.29  | ± 9.6 % |
| 10250 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   | LTE-TDD  | 9.81  | ± 9.6 % |
| 10251 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   | LTE-TDD  | 10.17 | ± 9.6 % |
| 10252 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)     | LTE-TDD  | 9.24  | ± 9.6 % |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   | LTE-TDD  | 9.90  | ± 9.6 % |
| 10254 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   | LTE-TDD  | 10.14 | ± 9.6 % |
| 10255 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | LTE-TDD  | 9.20  | ± 9.6 % |
| 10256 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD  | 9.96  | ± 9.6 % |
| 10257 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD  | 10.08 | ± 9.6 % |
| 10258 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | LTE-TDD  | 9.34  | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | LTE-TDD  | 9.98  | ± 9.6 % |
| 10260 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | LTE-TDD  | 9.97  | ± 9.6 % |
| 10261 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | LTE-TDD  | 9.24  | ± 9.6 % |
| 10262 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | LTE-TDD  | 9.83  | ± 9.6 % |
| 10263 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | LTE-TDD  | 10.16 | ± 9.6 % |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | LTE-TDD  | 9.23  | ± 9.6 % |
| 10265 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | LTE-TDD  | 9.92  | ± 9.6 % |
| 10266 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | LTE-TDD  | 10.07 | ± 9.6 % |
| 10267 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | LTE-TDD  | 9.30  | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | LTE-TDD  | 10.06 | ± 9.6 % |
| 10269 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | LTE-TDD  | 10.13 | ± 9.6 % |
| 10270 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | LTE-TDD  | 9.58  | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)   | WCDMA    | 4.87  | ± 9.6 % |
| 10275 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)    | WCDMA    | 3.96  | ± 9.6 % |
| 10277 | CAA | PHS (QPSK)                                  | PHS      | 11.81 | ± 9.6 % |
| 10278 | CAA | PHS (QPSK, BW 884MHz, Roll-off 0.5)         | PHS      | 11.81 | ± 9.6 % |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Roll-off 0.38)        | PHS      | 12.18 | ± 9.6 % |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate              | CDMA2000 | 3.91  | ± 9.6 % |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate              | CDMA2000 | 3.46  | ± 9.6 % |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate              | CDMA2000 | 3.39  | ± 9.6 % |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate               | CDMA2000 | 3.50  | ± 9.6 % |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.       | CDMA2000 | 12.49 | ± 9.6 % |
| 10297 | AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)     | LTE-FDD  | 5.81  | ± 9.6 % |
| 10298 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)      | LTE-FDD  | 5.72  | ± 9.6 % |
| 10299 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)    | LTE-FDD  | 6.39  | ± 9.6 % |

|       |     |                                                            |          |       |         |
|-------|-----|------------------------------------------------------------|----------|-------|---------|
| 10300 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                   | LTE-FDD  | 6.60  | ± 9.6 % |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)         | WiMAX    | 12.03 | ± 9.6 % |
| 10302 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)  | WiMAX    | 12.57 | ± 9.6 % |
| 10303 | AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)        | WiMAX    | 12.52 | ± 9.6 % |
| 10304 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)        | WiMAX    | 11.86 | ± 9.6 % |
| 10305 | AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)       | WiMAX    | 15.24 | ± 9.6 % |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)       | WiMAX    | 14.67 | ± 9.6 % |
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)        | WiMAX    | 14.49 | ± 9.6 % |
| 10308 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)       | WiMAX    | 14.46 | ± 9.6 % |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)    | WiMAX    | 14.58 | ± 9.6 % |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)     | WiMAX    | 14.57 | ± 9.6 % |
| 10311 | AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                   | LTE-FDD  | 6.06  | ± 9.6 % |
| 10313 | AAA | IDEN 1:3                                                   | IDEN     | 10.51 | ± 9.6 % |
| 10314 | AAA | IDEN 1:6                                                   | IDEN     | 13.48 | ± 9.6 % |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)          | WLAN     | 1.71  | ± 9.6 % |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)      | WLAN     | 8.36  | ± 9.6 % |
| 10317 | AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)            | WLAN     | 8.36  | ± 9.6 % |
| 10352 | AAA | Pulse Waveform (200Hz, 10%)                                | Generic  | 10.00 | ± 9.6 % |
| 10353 | AAA | Pulse Waveform (200Hz, 20%)                                | Generic  | 6.99  | ± 9.6 % |
| 10354 | AAA | Pulse Waveform (200Hz, 40%)                                | Generic  | 3.98  | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%)                                | Generic  | 2.22  | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%)                                | Generic  | 0.97  | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 1 MHz                                       | Generic  | 5.10  | ± 9.6 % |
| 10388 | AAA | QPSK Waveform, 10 MHz                                      | Generic  | 5.22  | ± 9.6 % |
| 10396 | AAA | 64-QAM Waveform, 100 kHz                                   | Generic  | 6.27  | ± 9.6 % |
| 10399 | AAA | 64-QAM Waveform, 40 MHz                                    | Generic  | 6.27  | ± 9.6 % |
| 10400 | AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)                | WLAN     | 8.37  | ± 9.6 % |
| 10401 | AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)                | WLAN     | 8.60  | ± 9.6 % |
| 10402 | AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)                | WLAN     | 8.53  | ± 9.6 % |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0)                                 | CDMA2000 | 3.76  | ± 9.6 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A)                                 | CDMA2000 | 3.77  | ± 9.6 % |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                       | CDMA2000 | 5.22  | ± 9.6 % |
| 10410 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)  | LTE-TDD  | 7.82  | ± 9.6 % |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz                                   | Generic  | 8.54  | ± 9.6 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)          | WLAN     | 1.54  | ± 9.6 % |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)      | WLAN     | 8.23  | ± 9.6 % |
| 10417 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)          | WLAN     | 8.23  | ± 9.6 % |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)  | WLAN     | 8.14  | ± 9.6 % |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN     | 8.19  | ± 9.6 % |
| 10422 | AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)               | WLAN     | 8.32  | ± 9.6 % |
| 10423 | AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)            | WLAN     | 8.47  | ± 9.6 % |
| 10424 | AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)            | WLAN     | 8.40  | ± 9.6 % |
| 10425 | AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                | WLAN     | 8.41  | ± 9.6 % |
| 10426 | AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)              | WLAN     | 8.45  | ± 9.6 % |
| 10427 | AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)             | WLAN     | 8.41  | ± 9.6 % |
| 10430 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                           | LTE-FDD  | 8.28  | ± 9.6 % |
| 10431 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                          | LTE-FDD  | 8.38  | ± 9.6 % |
| 10432 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                          | LTE-FDD  | 8.34  | ± 9.6 % |
| 10433 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                          | LTE-FDD  | 8.34  | ± 9.6 % |
| 10434 | AAA | W-CDMA (BS Test Model 1, 64 DPCH)                          | WCDMA    | 8.60  | ± 9.6 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)              | LTE-TDD  | 7.82  | ± 9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)             | LTE-FDD  | 7.56  | ± 9.6 % |
| 10448 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.53  | ± 9.6 % |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.51  | ± 9.6 % |
| 10450 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.48  | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)            | WCDMA    | 7.59  | ± 9.6 % |
| 10453 | AAD | Validation (Square, 10ms, 1ms)                             | Test     | 10.00 | ± 9.6 % |
| 10456 | AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)               | WLAN     | 8.63  | ± 9.6 % |
| 10457 | AAA | UMTS-FDD (DC-HSDPA)                                        | WCDMA    | 6.62  | ± 9.6 % |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                     | CDMA2000 | 6.55  | ± 9.6 % |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                     | CDMA2000 | 8.25  | ± 9.6 % |
| 10460 | AAA | UMTS-FDD (WCDMA, AMR)                                      | WCDMA    | 2.39  | ± 9.6 % |
| 10461 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)             | LTE-TDD  | 7.82  | ± 9.6 % |
| 10462 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)           | LTE-TDD  | 8.30  | ± 9.6 % |

|       |     |                                                     |         |      |        |
|-------|-----|-----------------------------------------------------|---------|------|--------|
| 10463 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.56 | ±9.6 % |
| 10464 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)        | LTE-TDD | 7.82 | ±9.6 % |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)      | LTE-TDD | 8.32 | ±9.6 % |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)      | LTE-TDD | 8.57 | ±9.6 % |
| 10467 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)        | LTE-TDD | 7.82 | ±9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)      | LTE-TDD | 8.32 | ±9.6 % |
| 10469 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)      | LTE-TDD | 8.56 | ±9.6 % |
| 10470 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)       | LTE-TDD | 7.82 | ±9.6 % |
| 10471 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10472 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10473 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)       | LTE-TDD | 7.82 | ±9.6 % |
| 10474 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10475 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)     | LTE-TDD | 8.32 | ±9.6 % |
| 10478 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)     | LTE-TDD | 8.57 | ±9.6 % |
| 10479 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.18 | ±9.6 % |
| 10481 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.45 | ±9.6 % |
| 10482 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)      | LTE-TDD | 7.71 | ±9.6 % |
| 10483 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)       | LTE-TDD | 8.39 | ±9.6 % |
| 10484 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.47 | ±9.6 % |
| 10485 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)      | LTE-TDD | 7.59 | ±9.6 % |
| 10486 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)    | LTE-TDD | 8.38 | ±9.6 % |
| 10487 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.60 | ±9.6 % |
| 10488 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)     | LTE-TDD | 7.70 | ±9.6 % |
| 10489 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.31 | ±9.6 % |
| 10490 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10491 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)     | LTE-TDD | 7.74 | ±9.6 % |
| 10492 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.41 | ±9.6 % |
| 10493 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.55 | ±9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)     | LTE-TDD | 7.74 | ±9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.37 | ±9.6 % |
| 10496 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10497 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)   | LTE-TDD | 7.67 | ±9.6 % |
| 10498 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ±9.6 % |
| 10499 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.68 | ±9.6 % |
| 10500 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)     | LTE-TDD | 7.67 | ±9.6 % |
| 10501 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.44 | ±9.6 % |
| 10502 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.52 | ±9.6 % |
| 10503 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)     | LTE-TDD | 7.72 | ±9.6 % |
| 10504 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.31 | ±9.6 % |
| 10505 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.54 | ±9.6 % |
| 10506 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.36 | ±9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.55 | ±9.6 % |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)    | LTE-TDD | 7.99 | ±9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.49 | ±9.6 % |
| 10511 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.51 | ±9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)    | LTE-TDD | 7.74 | ±9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.42 | ±9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.45 | ±9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)   | WLAN    | 1.58 | ±9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN    | 1.57 | ±9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)  | WLAN    | 1.58 | ±9.6 % |
| 10518 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)   | WLAN    | 8.23 | ±9.6 % |
| 10519 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)  | WLAN    | 8.39 | ±9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)  | WLAN    | 8.12 | ±9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)  | WLAN    | 7.97 | ±9.6 % |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)  | WLAN    | 8.45 | ±9.6 % |
| 10523 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)  | WLAN    | 8.08 | ±9.6 % |
| 10524 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)  | WLAN    | 8.27 | ±9.6 % |
| 10525 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)           | WLAN    | 8.36 | ±9.6 % |
| 10526 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)           | WLAN    | 8.42 | ±9.6 % |
| 10527 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)           | WLAN    | 8.21 | ±9.6 % |

|       |     |                                                         |      |      |         |
|-------|-----|---------------------------------------------------------|------|------|---------|
| 10528 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)               | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)               | WLAN | 8.36 | ± 9.6 % |
| 10531 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)               | WLAN | 8.43 | ± 9.6 % |
| 10532 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)               | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)               | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)               | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)               | WLAN | 8.44 | ± 9.6 % |
| 10538 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)               | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)               | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)               | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)               | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)               | WLAN | 8.65 | ± 9.6 % |
| 10544 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)               | WLAN | 8.47 | ± 9.6 % |
| 10545 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)               | WLAN | 8.55 | ± 9.6 % |
| 10546 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)               | WLAN | 8.35 | ± 9.6 % |
| 10547 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)               | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)               | WLAN | 8.37 | ± 9.6 % |
| 10550 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)               | WLAN | 8.38 | ± 9.6 % |
| 10551 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)               | WLAN | 8.50 | ± 9.6 % |
| 10552 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)               | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)               | WLAN | 8.45 | ± 9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)              | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)              | WLAN | 8.47 | ± 9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)              | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)              | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)              | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)              | WLAN | 8.73 | ± 9.6 % |
| 10561 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)              | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)              | WLAN | 8.69 | ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)              | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)       | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)       | WLAN | 1.99 | ± 9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)     | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)      | WLAN | 1.98 | ± 9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)  | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)  | WLAN | 8.60 | ± 9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)       | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)       | WLAN | 8.60 | ± 9.6 % |
| 10585 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)      | WLAN | 8.70 | ± 9.6 % |
| 10586 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)      | WLAN | 8.49 | ± 9.6 % |
| 10587 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)      | WLAN | 8.36 | ± 9.6 % |
| 10588 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)      | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)      | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)      | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)           | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)           | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)           | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)           | WLAN | 8.74 | ± 9.6 % |
| 10595 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)           | WLAN | 8.74 | ± 9.6 % |

|       |     |                                                   |           |       |         |
|-------|-----|---------------------------------------------------|-----------|-------|---------|
| 10596 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)     | WLAN      | 8.71  | ± 9.6 % |
| 10597 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)     | WLAN      | 8.72  | ± 9.6 % |
| 10598 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)     | WLAN      | 8.50  | ± 9.6 % |
| 10599 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)     | WLAN      | 8.79  | ± 9.6 % |
| 10600 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)     | WLAN      | 8.88  | ± 9.6 % |
| 10601 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)     | WLAN      | 8.82  | ± 9.6 % |
| 10602 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)     | WLAN      | 8.94  | ± 9.6 % |
| 10603 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)     | WLAN      | 9.03  | ± 9.6 % |
| 10604 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)     | WLAN      | 8.76  | ± 9.6 % |
| 10605 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)     | WLAN      | 8.97  | ± 9.6 % |
| 10606 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)     | WLAN      | 8.82  | ± 9.6 % |
| 10607 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)         | WLAN      | 8.64  | ± 9.6 % |
| 10608 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10609 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)         | WLAN      | 8.57  | ± 9.6 % |
| 10610 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)         | WLAN      | 8.78  | ± 9.6 % |
| 10611 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)         | WLAN      | 8.70  | ± 9.6 % |
| 10612 | AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10613 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)         | WLAN      | 8.94  | ± 9.6 % |
| 10614 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)         | WLAN      | 8.59  | ± 9.6 % |
| 10615 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10616 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10617 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10618 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)         | WLAN      | 8.58  | ± 9.6 % |
| 10619 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)         | WLAN      | 8.86  | ± 9.6 % |
| 10620 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)         | WLAN      | 8.87  | ± 9.6 % |
| 10621 | AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)         | WLAN      | 8.77  | ± 9.6 % |
| 10622 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)         | WLAN      | 8.68  | ± 9.6 % |
| 10623 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)         | WLAN      | 8.82  | ± 9.6 % |
| 10624 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)         | WLAN      | 8.96  | ± 9.6 % |
| 10625 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)         | WLAN      | 8.96  | ± 9.6 % |
| 10626 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)         | WLAN      | 8.83  | ± 9.6 % |
| 10627 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)         | WLAN      | 8.88  | ± 9.6 % |
| 10628 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)         | WLAN      | 8.71  | ± 9.6 % |
| 10629 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)         | WLAN      | 8.85  | ± 9.6 % |
| 10630 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)         | WLAN      | 8.72  | ± 9.6 % |
| 10631 | AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10632 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)         | WLAN      | 8.74  | ± 9.6 % |
| 10633 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)         | WLAN      | 8.83  | ± 9.6 % |
| 10634 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)         | WLAN      | 8.80  | ± 9.6 % |
| 10635 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)         | WLAN      | 8.81  | ± 9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)        | WLAN      | 8.83  | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)        | WLAN      | 8.79  | ± 9.6 % |
| 10638 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)        | WLAN      | 8.86  | ± 9.6 % |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)        | WLAN      | 8.85  | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)        | WLAN      | 8.98  | ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)        | WLAN      | 9.06  | ± 9.6 % |
| 10642 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)        | WLAN      | 9.06  | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)        | WLAN      | 8.89  | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)        | WLAN      | 9.05  | ± 9.6 % |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)        | WLAN      | 9.11  | ± 9.6 % |
| 10646 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)  | LTE-TDD   | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD   | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced)                            | CDMA2000  | 3.45  | ± 9.6 % |
| 10652 | AAE | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)    | LTE-TDD   | 6.91  | ± 9.6 % |
| 10653 | AAE | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 7.42  | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 6.96  | ± 9.6 % |
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)   | LTE-TDD   | 7.21  | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%)                       | Test      | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%)                       | Test      | 6.99  | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%)                       | Test      | 3.98  | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%)                       | Test      | 2.22  | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%)                       | Test      | 0.97  | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy                              | Bluetooth | 2.19  | ± 9.6 % |
| 10671 | AAA | IEEE 802.11ax (20MHz, MCS0, 90pc dc)              | WLAN      | 9.09  | ± 9.6 % |

|       |     |                                       |      |      |         |
|-------|-----|---------------------------------------|------|------|---------|
| 10672 | AAA | IEEE 802.11ax (20MHz, MCS1, 90pc dc)  | WLAN | 8.57 | ± 9.6 % |
| 10673 | AAA | IEEE 802.11ax (20MHz, MCS2, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10674 | AAA | IEEE 802.11ax (20MHz, MCS3, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10675 | AAA | IEEE 802.11ax (20MHz, MCS4, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10676 | AAA | IEEE 802.11ax (20MHz, MCS5, 90pc dc)  | WLAN | 8.77 | ± 9.6 % |
| 10677 | AAA | IEEE 802.11ax (20MHz, MCS6, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAA | IEEE 802.11ax (20MHz, MCS7, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10679 | AAA | IEEE 802.11ax (20MHz, MCS8, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10680 | AAA | IEEE 802.11ax (20MHz, MCS9, 90pc dc)  | WLAN | 8.80 | ± 9.6 % |
| 10681 | AAA | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ± 9.6 % |
| 10682 | AAA | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10683 | AAA | IEEE 802.11ax (20MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ± 9.6 % |
| 10684 | AAA | IEEE 802.11ax (20MHz, MCS1, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10685 | AAA | IEEE 802.11ax (20MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10686 | AAA | IEEE 802.11ax (20MHz, MCS3, 99pc dc)  | WLAN | 8.28 | ± 9.6 % |
| 10687 | AAA | IEEE 802.11ax (20MHz, MCS4, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10688 | AAA | IEEE 802.11ax (20MHz, MCS5, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10689 | AAA | IEEE 802.11ax (20MHz, MCS6, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10690 | AAA | IEEE 802.11ax (20MHz, MCS7, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10691 | AAA | IEEE 802.11ax (20MHz, MCS8, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10692 | AAA | IEEE 802.11ax (20MHz, MCS9, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10693 | AAA | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10694 | AAA | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10695 | AAA | IEEE 802.11ax (40MHz, MCS0, 90pc dc)  | WLAN | 8.78 | ± 9.6 % |
| 10696 | AAA | IEEE 802.11ax (40MHz, MCS1, 90pc dc)  | WLAN | 8.91 | ± 9.6 % |
| 10697 | AAA | IEEE 802.11ax (40MHz, MCS2, 90pc dc)  | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAA | IEEE 802.11ax (40MHz, MCS3, 90pc dc)  | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAA | IEEE 802.11ax (40MHz, MCS4, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAA | IEEE 802.11ax (40MHz, MCS5, 90pc dc)  | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAA | IEEE 802.11ax (40MHz, MCS6, 90pc dc)  | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAA | IEEE 802.11ax (40MHz, MCS7, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10703 | AAA | IEEE 802.11ax (40MHz, MCS8, 90pc dc)  | WLAN | 8.82 | ± 9.6 % |
| 10704 | AAA | IEEE 802.11ax (40MHz, MCS9, 90pc dc)  | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAA | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 | AAA | IEEE 802.11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAA | IEEE 802.11ax (40MHz, MCS0, 99pc dc)  | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAA | IEEE 802.11ax (40MHz, MCS1, 99pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAA | IEEE 802.11ax (40MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10710 | AAA | IEEE 802.11ax (40MHz, MCS3, 99pc dc)  | WLAN | 8.29 | ± 9.6 % |
| 10711 | AAA | IEEE 802.11ax (40MHz, MCS4, 99pc dc)  | WLAN | 8.39 | ± 9.6 % |
| 10712 | AAA | IEEE 802.11ax (40MHz, MCS5, 99pc dc)  | WLAN | 8.67 | ± 9.6 % |
| 10713 | AAA | IEEE 802.11ax (40MHz, MCS6, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |
| 10714 | AAA | IEEE 802.11ax (40MHz, MCS7, 99pc dc)  | WLAN | 8.26 | ± 9.6 % |
| 10715 | AAA | IEEE 802.11ax (40MHz, MCS8, 99pc dc)  | WLAN | 8.45 | ± 9.6 % |
| 10716 | AAA | IEEE 802.11ax (40MHz, MCS9, 99pc dc)  | WLAN | 8.30 | ± 9.6 % |
| 10717 | AAA | IEEE 802.11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10718 | AAA | IEEE 802.11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| 10719 | AAA | IEEE 802.11ax (80MHz, MCS0, 90pc dc)  | WLAN | 8.81 | ± 9.6 % |
| 10720 | AAA | IEEE 802.11ax (80MHz, MCS1, 90pc dc)  | WLAN | 8.87 | ± 9.6 % |
| 10721 | AAA | IEEE 802.11ax (80MHz, MCS2, 90pc dc)  | WLAN | 8.76 | ± 9.6 % |
| 10722 | AAA | IEEE 802.11ax (80MHz, MCS3, 90pc dc)  | WLAN | 8.55 | ± 9.6 % |
| 10723 | AAA | IEEE 802.11ax (80MHz, MCS4, 90pc dc)  | WLAN | 8.70 | ± 9.6 % |
| 10724 | AAA | IEEE 802.11ax (80MHz, MCS5, 90pc dc)  | WLAN | 8.90 | ± 9.6 % |
| 10725 | AAA | IEEE 802.11ax (80MHz, MCS6, 90pc dc)  | WLAN | 8.74 | ± 9.6 % |
| 10726 | AAA | IEEE 802.11ax (80MHz, MCS7, 90pc dc)  | WLAN | 8.72 | ± 9.6 % |
| 10727 | AAA | IEEE 802.11ax (80MHz, MCS8, 90pc dc)  | WLAN | 8.66 | ± 9.6 % |
| 10728 | AAA | IEEE 802.11ax (80MHz, MCS9, 90pc dc)  | WLAN | 8.65 | ± 9.6 % |
| 10729 | AAA | IEEE 802.11ax (80MHz, MCS10, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10730 | AAA | IEEE 802.11ax (80MHz, MCS11, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10731 | AAA | IEEE 802.11ax (80MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ± 9.6 % |
| 10732 | AAA | IEEE 802.11ax (80MHz, MCS1, 99pc dc)  | WLAN | 8.46 | ± 9.6 % |
| 10733 | AAA | IEEE 802.11ax (80MHz, MCS2, 99pc dc)  | WLAN | 8.40 | ± 9.6 % |
| 10734 | AAA | IEEE 802.11ax (80MHz, MCS3, 99pc dc)  | WLAN | 8.25 | ± 9.6 % |
| 10735 | AAA | IEEE 802.11ax (80MHz, MCS4, 99pc dc)  | WLAN | 8.33 | ± 9.6 % |

|       |     |                                                |               |      |        |
|-------|-----|------------------------------------------------|---------------|------|--------|
| 10736 | AAA | IEEE 802.11ax (80MHz, MCS5, 99pc dc)           | WLAN          | 8.27 | ±9.6 % |
| 10737 | AAA | IEEE 802.11ax (80MHz, MCS6, 99pc dc)           | WLAN          | 8.36 | ±9.6 % |
| 10738 | AAA | IEEE 802.11ax (80MHz, MCS7, 99pc dc)           | WLAN          | 8.42 | ±9.6 % |
| 10739 | AAA | IEEE 802.11ax (80MHz, MCS8, 99pc dc)           | WLAN          | 8.29 | ±9.6 % |
| 10740 | AAA | IEEE 802.11ax (80MHz, MCS9, 99pc dc)           | WLAN          | 8.48 | ±9.6 % |
| 10741 | AAA | IEEE 802.11ax (80MHz, MCS10, 99pc dc)          | WLAN          | 8.40 | ±9.6 % |
| 10742 | AAA | IEEE 802.11ax (80MHz, MCS11, 99pc dc)          | WLAN          | 8.43 | ±9.6 % |
| 10743 | AAA | IEEE 802.11ax (160MHz, MCS0, 90pc dc)          | WLAN          | 8.94 | ±9.6 % |
| 10744 | AAA | IEEE 802.11ax (160MHz, MCS1, 90pc dc)          | WLAN          | 9.16 | ±9.6 % |
| 10745 | AAA | IEEE 802.11ax (160MHz, MCS2, 90pc dc)          | WLAN          | 8.93 | ±9.6 % |
| 10746 | AAA | IEEE 802.11ax (160MHz, MCS3, 90pc dc)          | WLAN          | 9.11 | ±9.6 % |
| 10747 | AAA | IEEE 802.11ax (160MHz, MCS4, 90pc dc)          | WLAN          | 9.04 | ±9.6 % |
| 10748 | AAA | IEEE 802.11ax (160MHz, MCS5, 90pc dc)          | WLAN          | 8.93 | ±9.6 % |
| 10749 | AAA | IEEE 802.11ax (160MHz, MCS6, 90pc dc)          | WLAN          | 8.90 | ±9.6 % |
| 10750 | AAA | IEEE 802.11ax (160MHz, MCS7, 90pc dc)          | WLAN          | 8.79 | ±9.6 % |
| 10751 | AAA | IEEE 802.11ax (160MHz, MCS8, 90pc dc)          | WLAN          | 8.82 | ±9.6 % |
| 10752 | AAA | IEEE 802.11ax (160MHz, MCS9, 90pc dc)          | WLAN          | 8.81 | ±9.6 % |
| 10753 | AAA | IEEE 802.11ax (160MHz, MCS10, 90pc dc)         | WLAN          | 9.00 | ±9.6 % |
| 10754 | AAA | IEEE 802.11ax (160MHz, MCS11, 90pc dc)         | WLAN          | 8.94 | ±9.6 % |
| 10755 | AAA | IEEE 802.11ax (160MHz, MCS0, 99pc dc)          | WLAN          | 8.64 | ±9.6 % |
| 10756 | AAA | IEEE 802.11ax (160MHz, MCS1, 99pc dc)          | WLAN          | 8.77 | ±9.6 % |
| 10757 | AAA | IEEE 802.11ax (160MHz, MCS2, 99pc dc)          | WLAN          | 8.77 | ±9.6 % |
| 10758 | AAA | IEEE 802.11ax (160MHz, MCS3, 99pc dc)          | WLAN          | 8.69 | ±9.6 % |
| 10759 | AAA | IEEE 802.11ax (160MHz, MCS4, 99pc dc)          | WLAN          | 8.58 | ±9.6 % |
| 10760 | AAA | IEEE 802.11ax (160MHz, MCS5, 99pc dc)          | WLAN          | 8.49 | ±9.6 % |
| 10761 | AAA | IEEE 802.11ax (160MHz, MCS6, 99pc dc)          | WLAN          | 8.58 | ±9.6 % |
| 10762 | AAA | IEEE 802.11ax (160MHz, MCS7, 99pc dc)          | WLAN          | 8.49 | ±9.6 % |
| 10763 | AAA | IEEE 802.11ax (160MHz, MCS8, 99pc dc)          | WLAN          | 8.53 | ±9.6 % |
| 10764 | AAA | IEEE 802.11ax (160MHz, MCS9, 99pc dc)          | WLAN          | 8.54 | ±9.6 % |
| 10765 | AAA | IEEE 802.11ax (160MHz, MCS10, 99pc dc)         | WLAN          | 8.54 | ±9.6 % |
| 10766 | AAA | IEEE 802.11ax (160MHz, MCS11, 99pc dc)         | WLAN          | 8.51 | ±9.6 % |
| 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 7.99 | ±9.6 % |
| 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10771 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.23 | ±9.6 % |
| 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.03 | ±9.6 % |
| 10774 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10775 | AAB | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ±9.6 % |
| 10777 | AAB | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ±9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.34 | ±9.6 % |
| 10779 | AAB | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.42 | ±9.6 % |
| 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10782 | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43 | ±9.6 % |
| 10783 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 % |
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 % |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.83 | ±9.6 % |
| 10792 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.92 | ±9.6 % |
| 10793 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.95 | ±9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10795 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.84 | ±9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10797 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.89 | ±9.6 % |
| 10799 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93 | ±9.6 % |

|       |     |                                                      |               |      |         |
|-------|-----|------------------------------------------------------|---------------|------|---------|
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)         | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10812 | AAC | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10818 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10819 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10822 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10824 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10825 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10827 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10828 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10829 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10860 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10861 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10863 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10864 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 6.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61 | ± 9.6 % |

|       |     |                                                     |               |      |         |
|-------|-----|-----------------------------------------------------|---------------|------|---------|
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82 | ± 9.6 % |
| 10923 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10924 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15 | ± 9.6 % |

|       |     |                                                     |               |      |         |
|-------|-----|-----------------------------------------------------|---------------|------|---------|
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23 | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32 | ± 9.6 % |
| 10961 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36 | ± 9.6 % |
| 10962 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40 | ± 9.6 % |
| 10963 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10964 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29 | ± 9.6 % |
| 10965 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37 | ± 9.6 % |
| 10966 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10967 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42 | ± 9.6 % |
| 10968 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 9.6 % |

<sup>F</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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**Appendix E. Conducted RF Output Power Table**

The detailed power table are shown as follows.

| Aan 1 Full Power DSI-1/3/4/5 |                           |       |       |                           |                           |       |       |                           |
|------------------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| GSM850                       | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel                   | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)              | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot                | 32.57                     | 32.96 | 32.80 | 34.00                     | 23.57                     | 23.96 | 23.80 | 25.00                     |
| GPRS 1 Tx slot               | 32.55                     | 32.95 | 32.78 | 34.00                     | 23.55                     | 23.95 | 23.78 | 25.00                     |
| GPRS 2 Tx slots              | 29.68                     | 29.95 | 29.70 | 31.00                     | 23.68                     | 23.95 | 23.70 | 25.00                     |
| GPRS 3 Tx slots              | 27.83                     | 28.30 | 27.80 | 29.20                     | 23.57                     | 24.04 | 23.54 | 24.94                     |
| GPRS 4 Tx slots              | 26.75                     | 26.42 | 26.30 | 28.00                     | 23.73                     | 23.42 | 23.30 | 25.00                     |
| EDGE 1 Tx slot               | 26.72                     | 26.99 | 26.80 | 28.30                     | 17.72                     | 17.99 | 17.80 | 19.30                     |
| EDGE 2 Tx slots              | 23.76                     | 23.83 | 23.75 | 25.30                     | 17.76                     | 17.83 | 17.75 | 19.30                     |
| EDGE 3 Tx slots              | 21.91                     | 21.95 | 21.76 | 23.50                     | 17.65                     | 17.69 | 17.50 | 19.24                     |
| EDGE 4 Tx slots              | 20.83                     | 20.78 | 20.47 | 22.30                     | 17.63                     | 17.78 | 17.47 | 19.30                     |

| Aan 1 Full Power DSI-1/3/4/5  |         |       |       |                           |
|-------------------------------|---------|-------|-------|---------------------------|
| Band                          | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel                    | 4132    | 4182  | 4233  |                           |
| Rx Channel                    | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)               | 824.4   | 836.4 | 848.8 |                           |
| 3GPP Rel 99 AMR 12.2kbps      | 24.17   | 24.19 | 24.13 | 25.00                     |
| 3GPP Rel 99 RMC 12.2kbps      | 24.18   | 24.20 | 24.15 | 25.00                     |
| 3GPP Rel 6 HSDPA Subtest-1    | 23.16   | 23.24 | 23.15 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-2    | 23.17   | 23.19 | 23.20 | 24.00                     |
| 3GPP Rel 6 HSDPA Subtest-3    | 22.68   | 22.73 | 22.69 | 23.50                     |
| 3GPP Rel 6 HSDPA Subtest-4    | 22.69   | 22.73 | 22.31 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-1 | 23.10   | 23.14 | 23.06 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-2 | 23.13   | 23.16 | 23.10 | 24.00                     |
| 3GPP Rel 8 DC-HSDPA Subtest-3 | 22.81   | 22.68 | 22.68 | 23.50                     |
| 3GPP Rel 8 DC-HSDPA Subtest-4 | 22.64   | 22.70 | 22.29 | 23.50                     |
| 3GPP Rel 6 HSUPA Subtest-1    | 23.19   | 23.17 | 23.13 | 24.00                     |
| 3GPP Rel 6 HSUPA Subtest-2    | 21.18   | 21.17 | 21.12 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-3    | 22.14   | 22.21 | 22.14 | 23.00                     |
| 3GPP Rel 6 HSUPA Subtest-4    | 21.14   | 21.18 | 21.17 | 22.00                     |
| 3GPP Rel 6 HSUPA Subtest-5    | 23.10   | 23.20 | 23.10 | 24.00                     |

| Ant1 Band 5 Full Power / DSI 1/3/4/5 |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
|--------------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|--|--|
| BW (MHz)                             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                              |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)                      |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| 10                                   | QPSK       | 1       | 0         | 24.10                | 24.45                   | 24.18                 | 25.5                | 0        |  |  |  |  |
| 10                                   | QPSK       | 1       | 25        | 24.18                | 24.29                   | 24.26                 |                     |          |  |  |  |  |
| 10                                   | QPSK       | 1       | 49        | 24.06                | 24.27                   | 24.33                 |                     |          |  |  |  |  |
| 10                                   | QPSK       | 25      | 0         | 23.35                | 23.49                   | 23.43                 | 24.5                | 1        |  |  |  |  |
| 10                                   | QPSK       | 25      | 12        | 23.47                | 23.43                   | 23.40                 |                     |          |  |  |  |  |
| 10                                   | QPSK       | 25      | 25        | 23.35                | 23.36                   | 23.38                 |                     |          |  |  |  |  |
| 10                                   | QPSK       | 50      | 0         | 23.35                | 23.43                   | 23.38                 | 24.5                | 1        |  |  |  |  |
| 10                                   | 16QAM      | 1       | 0         | 23.64                | 23.75                   | 23.74                 |                     |          |  |  |  |  |
| 10                                   | 16QAM      | 1       | 25        | 23.86                | 23.52                   | 23.66                 |                     |          |  |  |  |  |
| 10                                   | 16QAM      | 1       | 49        | 23.40                | 23.63                   | 23.81                 | 23.5                | 2        |  |  |  |  |
| 10                                   | 16QAM      | 25      | 0         | 22.27                | 22.32                   | 22.41                 |                     |          |  |  |  |  |
| 10                                   | 16QAM      | 25      | 12        | 22.40                | 22.42                   | 22.49                 |                     |          |  |  |  |  |
| 10                                   | 16QAM      | 25      | 25        | 22.49                | 22.50                   | 22.27                 | 22.5                | 3        |  |  |  |  |
| 10                                   | 16QAM      | 50      | 0         | 22.42                | 22.49                   | 22.35                 |                     |          |  |  |  |  |
| 10                                   | 64QAM      | 1       | 0         | 23.12                | 23.00                   | 23.08                 |                     |          |  |  |  |  |
| 10                                   | 64QAM      | 1       | 25        | 22.74                | 22.86                   | 22.65                 | 23.5                | 2        |  |  |  |  |
| 10                                   | 64QAM      | 1       | 49        | 22.71                | 22.85                   | 22.73                 |                     |          |  |  |  |  |
| 10                                   | 64QAM      | 25      | 0         | 21.32                | 21.33                   | 21.34                 |                     |          |  |  |  |  |
| 10                                   | 64QAM      | 25      | 12        | 21.42                | 21.51                   | 21.39                 | 22.5                | 3        |  |  |  |  |
| 10                                   | 64QAM      | 25      | 25        | 21.45                | 21.43                   | 21.43                 |                     |          |  |  |  |  |
| 10                                   | 64QAM      | 50      | 0         | 21.45                | 21.42                   | 21.40                 |                     |          |  |  |  |  |
| 10                                   | 256QAM     | 1       | 0         | 18.95                | 19.35                   | 19.07                 | 20.5                | 5        |  |  |  |  |
| 10                                   | 256QAM     | 1       | 25        | 19.08                | 19.22                   | 19.20                 |                     |          |  |  |  |  |
| 10                                   | 256QAM     | 1       | 49        | 18.97                | 19.17                   | 19.20                 |                     |          |  |  |  |  |
| 10                                   | 256QAM     | 25      | 0         | 19.23                | 19.40                   | 19.33                 | 20.5                | 5        |  |  |  |  |
| 10                                   | 256QAM     | 25      | 12        | 19.38                | 19.35                   | 19.29                 |                     |          |  |  |  |  |
| 10                                   | 256QAM     | 25      | 25        | 19.29                | 19.30                   | 19.24                 |                     |          |  |  |  |  |
| 10                                   | 256QAM     | 50      | 0         | 19.22                | 19.32                   | 19.27                 | Turn-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                              |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)                      |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| 5                                    | QPSK       | 1       | 0         | 24.30                | 24.40                   | 24.42                 | 25.5                | 0        |  |  |  |  |
| 5                                    | QPSK       | 1       | 12        | 24.28                | 24.42                   | 24.36                 |                     |          |  |  |  |  |
| 5                                    | QPSK       | 1       | 24        | 24.25                | 24.25                   | 24.23                 |                     |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 0         | 23.28                | 23.36                   | 23.45                 | 24.5                | 1        |  |  |  |  |
| 5                                    | QPSK       | 12      | 7         | 23.41                | 23.31                   | 23.45                 |                     |          |  |  |  |  |
| 5                                    | QPSK       | 12      | 13        | 23.33                | 23.36                   | 23.41                 |                     |          |  |  |  |  |
| 5                                    | QPSK       | 25      | 0         | 23.35                | 23.39                   | 23.37                 | 24.5                | 1        |  |  |  |  |
| 5                                    | 16QAM      | 1       | 0         | 23.50                | 23.25                   | 23.68                 |                     |          |  |  |  |  |
| 5                                    | 16QAM      | 1       | 12        | 23.57                | 23.59                   | 23.63                 |                     |          |  |  |  |  |
| 5                                    | 16QAM      | 1       | 24        | 23.55                | 23.69                   | 23.41                 | 23.5                | 2        |  |  |  |  |
| 5                                    | 16QAM      | 12      | 0         | 22.38                | 22.42                   | 22.38                 |                     |          |  |  |  |  |
| 5                                    | 16QAM      | 12      | 7         | 22.27                | 22.42                   | 22.49                 |                     |          |  |  |  |  |
| 5                                    | 16QAM      | 12      | 13        | 22.33                | 22.43                   | 22.42                 | 23.5                | 2        |  |  |  |  |
| 5                                    | 16QAM      | 25      | 0         | 22.31                | 22.44                   | 22.31                 |                     |          |  |  |  |  |
| 5                                    | 64QAM      | 1       | 0         | 22.45                | 22.55                   | 22.47                 |                     |          |  |  |  |  |
| 5                                    | 64QAM      | 1       | 12        | 22.40                | 22.31                   | 22.42                 | 23.5                | 2        |  |  |  |  |
| 5                                    | 64QAM      | 1       | 24        | 22.59                | 22.26                   | 22.45                 |                     |          |  |  |  |  |
| 5                                    | 64QAM      | 12      | 0         | 21.37                | 21.38                   | 21.50                 |                     |          |  |  |  |  |
| 5                                    | 64QAM      | 12      | 7         | 21.49                | 21.42                   | 21.48                 | 22.5                | 3        |  |  |  |  |
| 5                                    | 64QAM      | 12      | 13        | 21.34                | 21.35                   | 21.38                 |                     |          |  |  |  |  |
| 5                                    | 64QAM      | 25      | 0         | 21.37                | 21.46                   | 21.40                 |                     |          |  |  |  |  |
| 5                                    | 256QAM     | 1       | 0         | 19.17                | 19.31                   | 19.29                 | 20.5                | 5        |  |  |  |  |
| 5                                    | 256QAM     | 1       | 12        | 19.17                | 19.27                   | 19.30                 |                     |          |  |  |  |  |
| 5                                    | 256QAM     | 1       | 24        | 19.16                | 19.10                   | 19.13                 |                     |          |  |  |  |  |
| 5                                    | 256QAM     | 12      | 0         | 19.22                | 19.21                   | 19.32                 | 20.5                | 5        |  |  |  |  |
| 5                                    | 256QAM     | 12      | 7         | 19.30                | 19.19                   | 19.34                 |                     |          |  |  |  |  |
| 5                                    | 256QAM     | 12      | 13        | 19.22                | 19.35                   | 19.35                 |                     |          |  |  |  |  |
| 5                                    | 256QAM     | 25      | 0         | 19.26                | 19.33                   | 19.30                 | Turn-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                              |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)                      |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| 3                                    | QPSK       | 1       | 0         | 24.40                | 24.19                   | 24.27                 | 25.5                | 0        |  |  |  |  |
| 3                                    | QPSK       | 1       | 8         | 24.44                | 24.27                   | 24.30                 |                     |          |  |  |  |  |
| 3                                    | QPSK       | 1       | 14        | 24.41                | 24.22                   | 24.16                 |                     |          |  |  |  |  |
| 3                                    | QPSK       | 8       | 0         | 23.57                | 23.33                   | 23.45                 | 24.5                | 1        |  |  |  |  |
| 3                                    | QPSK       | 8       | 4         | 23.50                | 23.41                   | 23.39                 |                     |          |  |  |  |  |
| 3                                    | QPSK       | 8       | 7         | 23.53                | 23.34                   | 23.40                 |                     |          |  |  |  |  |
| 3                                    | QPSK       | 15      | 0         | 23.59                | 23.27                   | 23.38                 | 24.5                | 1        |  |  |  |  |
| 3                                    | 16QAM      | 1       | 0         | 23.72                | 23.45                   | 23.57                 |                     |          |  |  |  |  |
| 3                                    | 16QAM      | 1       | 8         | 23.56                | 23.38                   | 23.61                 |                     |          |  |  |  |  |
| 3                                    | 16QAM      | 1       | 14        | 23.73                | 23.62                   | 23.77                 | 23.5                | 2        |  |  |  |  |
| 3                                    | 16QAM      | 8       | 0         | 22.68                | 22.36                   | 22.46                 |                     |          |  |  |  |  |
| 3                                    | 16QAM      | 8       | 4         | 22.62                | 22.41                   | 22.45                 |                     |          |  |  |  |  |
| 3                                    | 16QAM      | 8       | 7         | 22.72                | 22.38                   | 22.45                 | 23.5                | 2        |  |  |  |  |
| 3                                    | 16QAM      | 15      | 0         | 22.58                | 22.37                   | 22.42                 |                     |          |  |  |  |  |
| 3                                    | 64QAM      | 1       | 0         | 22.69                | 22.85                   | 22.78                 |                     |          |  |  |  |  |
| 3                                    | 64QAM      | 1       | 8         | 22.54                | 22.57                   | 22.56                 | 23.5                | 2        |  |  |  |  |
| 3                                    | 64QAM      | 1       | 14        | 22.64                | 22.52                   | 22.54                 |                     |          |  |  |  |  |
| 3                                    | 64QAM      | 8       | 0         | 21.55                | 21.36                   | 21.45                 |                     |          |  |  |  |  |
| 3                                    | 64QAM      | 8       | 4         | 21.54                | 21.35                   | 21.50                 | 22.5                | 3        |  |  |  |  |
| 3                                    | 64QAM      | 8       | 7         | 21.56                | 21.37                   | 21.33                 |                     |          |  |  |  |  |
| 3                                    | 64QAM      | 15      | 0         | 21.52                | 21.30                   | 21.41                 |                     |          |  |  |  |  |
| 3                                    | 256QAM     | 1       | 0         | 19.35                | 19.07                   | 19.17                 | 20.5                | 5        |  |  |  |  |
| 3                                    | 256QAM     | 1       | 8         | 19.30                | 19.12                   | 19.19                 |                     |          |  |  |  |  |
| 3                                    | 256QAM     | 1       | 14        | 19.27                | 19.15                   | 19.11                 |                     |          |  |  |  |  |
| 3                                    | 256QAM     | 8       | 0         | 19.49                | 19.24                   | 19.39                 | 20.5                | 5        |  |  |  |  |
| 3                                    | 256QAM     | 8       | 4         | 19.41                | 19.35                   | 19.27                 |                     |          |  |  |  |  |
| 3                                    | 256QAM     | 8       | 7         | 19.45                | 19.27                   | 19.27                 |                     |          |  |  |  |  |
| 3                                    | 256QAM     | 15      | 0         | 19.49                | 19.15                   | 19.25                 | Turn-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                              |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| Frequency (MHz)                      |            |         |           |                      |                         |                       |                     |          |  |  |  |  |
| 1.4                                  | QPSK       | 1       | 0         | 24.11                | 24.13                   | 24.23                 | 25.5                | 0        |  |  |  |  |
| 1.4                                  | QPSK       | 1       | 3         | 24.21                | 24.25                   | 24.24                 |                     |          |  |  |  |  |
| 1.4                                  | QPSK       | 1       | 5         | 24.15                | 24.22                   | 24.20                 |                     |          |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 0         | 24.22                | 24.15                   | 24.26                 | 24.5                | 1        |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 1         | 24.28                | 24.28                   | 24.36                 |                     |          |  |  |  |  |
| 1.4                                  | QPSK       | 3       | 3         | 24.27                | 24.25                   | 24.19                 |                     |          |  |  |  |  |
| 1.4                                  | QPSK       | 6       | 0         | 23.27                | 23.29                   | 23.33                 | 23.5                | 2        |  |  |  |  |
| 1.4                                  | 16QAM      | 1       | 0         | 23.53                | 23.50                   | 23.21                 |                     |          |  |  |  |  |
| 1.4                                  | 16QAM      | 1       | 3         | 23.40                | 23.37                   | 23.57                 |                     |          |  |  |  |  |
| 1.4                                  | 16QAM      | 1       | 5         | 23.60                | 23.35                   | 23.12                 | 24.5                | 1        |  |  |  |  |
| 1.4                                  | 16QAM      | 3       | 0         | 23.40                | 23.08                   | 23.36                 |                     |          |  |  |  |  |
| 1.4                                  | 16QAM      | 3       | 1         | 23.40                | 23.37                   | 23.32                 |                     |          |  |  |  |  |
| 1.4                                  | 16QAM      | 3       | 3         | 23.37                | 23.25                   | 23.22                 | 23.5                | 2        |  |  |  |  |
| 1.4                                  | 16QAM      | 6       | 0         | 22.43                | 22.40                   | 22.33                 |                     |          |  |  |  |  |
| 1.4                                  | 64QAM      | 1       | 0         | 22.48                | 22.40                   | 22.43                 |                     |          |  |  |  |  |
| 1.4                                  | 64QAM      | 1       | 3         | 22.46                | 22.51                   | 22.62                 | 23.5                | 2        |  |  |  |  |
| 1.4                                  | 64QAM      | 1       | 5         | 22.24                | 22.15                   | 22.46                 |                     |          |  |  |  |  |
| 1.4                                  | 64QAM      | 3       | 0         | 22.52                | 22.14                   | 22.31                 |                     |          |  |  |  |  |
| 1.4                                  | 64QAM      | 3       | 1         | 22.42                | 22.43                   | 22.50                 | 22.5                | 3        |  |  |  |  |
| 1.4                                  | 64QAM      | 3       | 3         | 22.36                | 22.33                   | 22.33                 |                     |          |  |  |  |  |
| 1.4                                  | 64QAM      | 6       | 0         | 21.25                | 21.24                   | 21.23                 |                     |          |  |  |  |  |
| 1.4                                  | 256QAM     | 1       | 0         | 19.01                | 19.01                   | 19.09                 | 20.5                | 5        |  |  |  |  |
| 1.4                                  | 256QAM     | 1       | 3         | 19.14                | 19.20                   | 19.12                 |                     |          |  |  |  |  |
| 1.4                                  | 256QAM     | 1       | 5         | 19.09                | 19.13                   | 19.12                 |                     |          |  |  |  |  |
| 1.4                                  | 256QAM     | 3       | 0         | 19.14                | 19.05                   | 19.21                 | 20.5                | 5        |  |  |  |  |
| 1.4                                  | 256QAM     | 3       | 1         | 19.19                | 19.20                   | 19.26                 |                     |          |  |  |  |  |
| 1.4                                  | 256QAM     | 3       | 3         | 19.13                | 19.15                   | 19.08                 |                     |          |  |  |  |  |
| 1.4                                  | 256QAM     | 6       | 0         | 19.16                | 19.22                   | 19.25                 | 20.5                | 5        |  |  |  |  |
|                                      |            |         |           |                      |                         |                       |                     |          |  |  |  |  |

| Ant1 Band 12 Full Power / DSI 4 |            |         |           |                                                                                           |                                                                                |                        |                      |          |  |
|---------------------------------|------------|---------|-----------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------|----------------------|----------|--|
| BW (MHz)                        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq.                                                                     | Power Middle Ch. / Freq.                                                       | Power High Ch. / Freq. | Tune-up limit (dbm)  | MPR (db) |  |
| Channel                         |            |         |           |                                                                                           |                                                                                |                        |                      |          |  |
| Frequency (MHz)                 |            |         |           | 23600                                                                                     | 23695                                                                          | 23730                  |                      |          |  |
| 10                              | QPSK       | 1       | 0         | 24.23                                                                                     | 24.44                                                                          | 24.18                  |                      |          |  |
| 10                              | QPSK       | 1       | 25        | 24.13                                                                                     | 24.09                                                                          | 24.24                  | 25.5                 | 0        |  |
| 10                              | QPSK       | 1       | 49        | 24.21                                                                                     | 24.23                                                                          | 24.35                  |                      |          |  |
| 10                              | QPSK       | 25      | 0         | 23.41                                                                                     | 23.50                                                                          | 23.40                  |                      |          |  |
| 10                              | QPSK       | 25      | 12        | 23.41                                                                                     | 23.46                                                                          | 23.45                  | 24.5                 | 1        |  |
| 10                              | QPSK       | 25      | 25        | 23.41                                                                                     | 23.45                                                                          | 23.46                  |                      |          |  |
| 10                              | QPSK       | 50      | 0         | 23.46                                                                                     | 23.47                                                                          | 23.41                  |                      |          |  |
| 10                              | 16QAM      | 1       | 0         | 23.68                                                                                     | 23.53                                                                          | 23.48                  |                      |          |  |
| 10                              | 16QAM      | 1       | 25        | 23.76                                                                                     | 23.43                                                                          | 23.58                  | 24.5                 | 1        |  |
| 10                              | 16QAM      | 1       | 49        | 23.80                                                                                     | 23.79                                                                          | 23.43                  |                      |          |  |
| 10                              | 16QAM      | 25      | 0         | 22.39                                                                                     | 22.30                                                                          | 22.34                  |                      |          |  |
| 10                              | 16QAM      | 25      | 12        | 22.40                                                                                     | 22.52                                                                          | 22.49                  | 23.5                 | 2        |  |
| 10                              | 16QAM      | 25      | 25        | 22.39                                                                                     | 22.30                                                                          | 22.29                  |                      |          |  |
| 10                              | 16QAM      | 50      | 0         | 22.62                                                                                     | 22.45                                                                          | 22.47                  |                      |          |  |
| 10                              | 64QAM      | 1       | 0         | 22.88                                                                                     | 22.75                                                                          | 22.83                  |                      |          |  |
| 10                              | 64QAM      | 1       | 25        | 22.91                                                                                     | 22.80                                                                          | 22.58                  | 23.5                 | 2        |  |
| 10                              | 64QAM      | 1       | 49        | 22.50                                                                                     | 22.50                                                                          | 22.88                  |                      |          |  |
| 10                              | 64QAM      | 25      | 0         | 21.28                                                                                     | 21.34                                                                          | 21.32                  |                      |          |  |
| 10                              | 64QAM      | 25      | 12        | 21.52                                                                                     | 21.57                                                                          | 21.42                  | 22.5                 | 3        |  |
| 10                              | 64QAM      | 25      | 25        | 21.44                                                                                     | 21.55                                                                          | 21.43                  |                      |          |  |
| 10                              | 64QAM      | 50      | 0         | 21.47                                                                                     | 21.49                                                                          | 21.45                  |                      |          |  |
| 10                              | 256QAM     | 1       | 0         | 19.08                                                                                     | 19.37                                                                          | 19.10                  |                      |          |  |
| 10                              | 256QAM     | 1       | 25        | 19.05                                                                                     | 18.99                                                                          | 18.97                  | 20.5                 | 5        |  |
| 10                              | 256QAM     | 1       | 49        | 19.14                                                                                     | 19.16                                                                          | 19.28                  |                      |          |  |
| 10                              | 256QAM     | 25      | 0         | 19.27                                                                                     | 19.36                                                                          | 19.30                  |                      |          |  |
| 10                              | 256QAM     | 25      | 12        | 19.36                                                                                     | 19.36                                                                          | 19.38                  | 20.5                 | 5        |  |
| 10                              | 256QAM     | 25      | 25        | 19.32                                                                                     | 19.35                                                                          | 19.38                  |                      |          |  |
| 10                              | 256QAM     | 50      | 0         | 19.35                                                                                     | 19.44                                                                          | 19.26                  |                      |          |  |
| Channel                         |            |         |           |                                                                                           |                                                                                |                        |                      |          |  |
| Frequency (MHz)                 |            |         |           | 23035                                                                                     | 23095                                                                          | 23155                  | ↑tune-up limit (dbm) | MPR (db) |  |
| 5                               | QPSK       | 1       | 0         | 24.23                                                                                     | 24.25                                                                          | 24.21                  |                      |          |  |
| 5                               | QPSK       | 1       | 12        | 24.27                                                                                     | 24.36                                                                          | 24.40                  | 25.5                 | 0        |  |
| 5                               | QPSK       | 1       | 24        | 24.35                                                                                     | 24.33                                                                          | 24.21                  |                      |          |  |
| 5                               | QPSK       | 12      | 0         | 23.50                                                                                     | 23.44                                                                          | 23.41                  |                      |          |  |
| 5                               | QPSK       | 12      | 7         | 23.50                                                                                     | 23.47                                                                          | 23.42                  | 24.5                 | 1        |  |
| 5                               | QPSK       | 12      | 13        | 23.39                                                                                     | 23.43                                                                          | 23.36                  |                      |          |  |
| 5                               | QPSK       | 25      | 0         | 23.41                                                                                     | 23.40                                                                          | 23.41                  |                      |          |  |
| 5                               | 16QAM      | 1       | 0         | 23.27                                                                                     | 23.33                                                                          | 23.37                  |                      |          |  |
| 5                               | 16QAM      | 1       | 12        | 23.56                                                                                     | 23.57                                                                          | 23.50                  | 24.5                 | 1        |  |
| 5                               | 16QAM      | 1       | 24        | 23.85                                                                                     | 23.65                                                                          | 23.50                  |                      |          |  |
| 5                               | 16QAM      | 12      | 0         | 22.56                                                                                     | 22.40                                                                          | 22.41                  |                      |          |  |
| 5                               | 16QAM      | 12      | 7         | 22.42                                                                                     | 22.42                                                                          | 22.42                  | 23.5                 | 2        |  |
| 5                               | 16QAM      | 12      | 13        | 22.46                                                                                     | 22.43                                                                          | 22.36                  |                      |          |  |
| 5                               | 16QAM      | 25      | 0         | 22.41                                                                                     | 22.41                                                                          | 22.41                  |                      |          |  |
| 5                               | 64QAM      | 1       | 0         | 22.89                                                                                     | 22.54                                                                          | 22.49                  |                      |          |  |
| 5                               | 64QAM      | 1       | 12        | 22.51                                                                                     | 22.43                                                                          | 22.44                  | 23.5                 | 2        |  |
| 5                               | 64QAM      | 1       | 24        | 22.99                                                                                     | 22.53                                                                          | 22.41                  |                      |          |  |
| 5                               | 64QAM      | 12      | 0         | 21.30                                                                                     | 21.45                                                                          | 21.34                  |                      |          |  |
| 5                               | 64QAM      | 12      | 7         | 21.36                                                                                     | 21.46                                                                          | 21.34                  | 22.5                 | 3        |  |
| 5                               | 64QAM      | 12      | 13        | 21.40                                                                                     | 21.40                                                                          | 21.42                  |                      |          |  |
| 5                               | 64QAM      | 25      | 0         | 21.47                                                                                     | 21.47                                                                          | 21.39                  |                      |          |  |
| 5                               | 256QAM     | 1       | 0         | 19.15                                                                                     | 19.19                                                                          | 19.10                  |                      |          |  |
| 5                               | 256QAM     | 1       | 12        | 19.17                                                                                     | 19.32                                                                          | 19.32                  | 20.5                 | 5        |  |
| 5                               | 256QAM     | 1       | 24        | 19.27                                                                                     | 19.24                                                                          | 19.14                  |                      |          |  |
| 5                               | 256QAM     | 12      | 0         | 19.44                                                                                     | 19.33                                                                          | 19.26                  |                      |          |  |
| 5                               | 256QAM     | 12      | 7         | 19.45                                                                                     | 19.33                                                                          | 19.33                  | 20.5                 | 5        |  |
| 5                               | 256QAM     | 12      | 13        | 19.28                                                                                     | 19.35                                                                          | 19.28                  |                      |          |  |
| 5                               | 256QAM     | 25      | 0         | 19.35                                                                                     | 19.31                                                                          | 19.35                  |                      |          |  |
| Channel                         |            |         |           |                                                                                           |                                                                                |                        |                      |          |  |
| Frequency (MHz)                 |            |         |           | 23025                                                                                     | 23095                                                                          | 23165                  | ↑tune-up limit (dbm) | MPR (db) |  |
| 3                               | QPSK       | 1       | 0         | 700.23                                                                                    | 707.5                                                                          | 714.5                  |                      |          |  |
| 3                               | QPSK       | 1       | 8         | 24.31                                                                                     | 24.40                                                                          | 24.30                  | 25.5                 | 0        |  |
| 3                               | QPSK       | 1       | 14        | 24.41                                                                                     | 24.41                                                                          | 24.28                  |                      |          |  |
| 3                               | QPSK       | 1       | 18        | 24.46                                                                                     | 24.23                                                                          | 24.32                  |                      |          |  |
| 3                               | QPSK       | 8       | 0         | 23.37                                                                                     | 23.37                                                                          | 23.30                  | 24.5                 | 1        |  |
| 3                               | QPSK       | 8       | 4         | 23.37                                                                                     | 23.49                                                                          | 23.41                  |                      |          |  |
| 3                               | QPSK       | 8       | 7         | 23.40                                                                                     | 23.37                                                                          | 23.33                  |                      |          |  |
| 3                               | QPSK       | 15      | 0         | 23.42                                                                                     | 23.44                                                                          | 23.38                  |                      |          |  |
| 3                               | 16QAM      | 1       | 0         | 23.64                                                                                     | 23.42                                                                          | 23.76                  |                      |          |  |
| 3                               | 16QAM      | 1       | 8         | 23.75                                                                                     | 23.62                                                                          | 23.68                  | 24.5                 | 1        |  |
| 3                               | 16QAM      | 1       | 14        | 23.62                                                                                     | 23.78                                                                          | 23.49                  |                      |          |  |
| 3                               | 16QAM      | 8       | 0         | 22.54                                                                                     | 22.43                                                                          | 22.32                  | 23.5                 | 2        |  |
| 3                               | 16QAM      | 8       | 4         | 22.37                                                                                     | 22.46                                                                          | 22.44                  |                      |          |  |
| 3                               | 16QAM      | 8       | 7         | 22.53                                                                                     | 22.44                                                                          | 22.49                  | 23.5                 | 2        |  |
| 3                               | 16QAM      | 15      | 0         | 22.42                                                                                     | 22.31                                                                          | 22.26                  |                      |          |  |
| 3                               | 64QAM      | 1       | 0         | 22.62                                                                                     | 22.74                                                                          | 22.50                  |                      |          |  |
| 3                               | 64QAM      | 1       | 8         | 22.51                                                                                     | 22.54                                                                          | 22.63                  | 24.5                 | 2        |  |
| 3                               | 64QAM      | 1       | 14        | 22.24                                                                                     | 22.42                                                                          | 22.33                  |                      |          |  |
| 3                               | 64QAM      | 8       | 0         | 21.52                                                                                     | 21.39                                                                          | 21.42                  | 22.5                 | 3        |  |
| 3                               | 64QAM      | 8       | 4         | 21.63                                                                                     | 21.39                                                                          | 21.42                  |                      |          |  |
| 3                               | 64QAM      | 8       | 7         | 21.48                                                                                     | 21.32                                                                          | 21.30                  |                      |          |  |
| 3                               | 64QAM      | 15      | 0         | 21.40                                                                                     | 21.43                                                                          | 21.31                  |                      |          |  |
| 3                               | 256QAM     | 1       | 0         | 19.13                                                                                     | 19.25                                                                          | 19.23                  | 20.5                 | 5        |  |
| 3                               | 256QAM     | 1       | 8         | 19.15                                                                                     | 19.35                                                                          | 19.27                  |                      |          |  |
| 3                               | 256QAM     | 1       | 14        | 19.22                                                                                     | 19.13                                                                          | 19.15                  |                      |          |  |
| 3                               | 256QAM     | 8       | 0         | 19.32                                                                                     | 19.21                                                                          | 19.24                  |                      |          |  |
| 3                               | 256QAM     | 8       | 4         | 19.27                                                                                     | 19.42                                                                          | 19.35                  | 20.5                 | 5        |  |
| 3                               | 256QAM     | 8       | 7         | 19.33                                                                                     | 19.28                                                                          | 19.24                  |                      |          |  |
| 3                               | 256QAM     | 15      | 0         | 19.35                                                                                     | 19.32                                                                          | 19.24                  |                      |          |  |
| Channel                         |            |         |           |                                                                                           |                                                                                |                        |                      |          |  |
| Frequency (MHz)                 |            |         |           | 690.7 <th>707.5<th>715.3</th><th>↑tune-up limit (dbm)</th><th>MPR (db)</th><th></th></th> | 707.5 <th>715.3</th> <th>↑tune-up limit (dbm)</th> <th>MPR (db)</th> <th></th> | 715.3                  | ↑tune-up limit (dbm) | MPR (db) |  |
| 14                              | QPSK       | 1       | 0         | 24.21                                                                                     | 24.28                                                                          | 24.23                  |                      |          |  |
| 14                              | QPSK       | 1       | 3         | 24.20                                                                                     | 24.27                                                                          | 24.12                  | 25.5                 | 0        |  |
| 14                              | QPSK       | 1       | 5         | 24.19                                                                                     | 24.22                                                                          | 24.11                  |                      |          |  |
| 14                              | QPSK       | 3       | 0         | 24.24                                                                                     | 24.24                                                                          | 24.14                  |                      |          |  |
| 14                              | QPSK       | 3       | 1         | 24.25                                                                                     | 24.28                                                                          | 24.22                  |                      |          |  |
| 14                              | QPSK       | 3       | 3         | 24.18                                                                                     | 24.23                                                                          | 24.13                  | 24.5                 | 1        |  |
| 14                              | QPSK       | 6       | 0         | 23.27                                                                                     | 23.30                                                                          | 23.28                  |                      |          |  |
| 14                              | 16QAM      | 1       | 0         | 23.68                                                                                     | 23.46                                                                          | 23.47                  |                      |          |  |
| 14                              | 16QAM      | 1       | 3         | 23.35                                                                                     | 23.49                                                                          | 23.45                  |                      |          |  |
| 14                              | 16QAM      | 1       | 5         | 23.72                                                                                     | 23.46                                                                          | 23.50                  | 24.5                 | 1        |  |
| 14                              | 16QAM      | 3       | 0         | 23.34                                                                                     | 23.31                                                                          | 23.22                  |                      |          |  |
| 14                              | 16QAM      | 3       | 1         | 23.36                                                                                     | 23.47                                                                          | 23.17                  |                      |          |  |
| 14                              | 16QAM      | 3       | 3         | 23.28                                                                                     | 23.34                                                                          | 23.19                  |                      |          |  |
| 14                              | 16QAM      | 6       | 0         | 22.53                                                                                     | 22.27                                                                          | 22.28                  | 23.5                 | 2        |  |
| 14                              | 64QAM      | 1       | 0         | 22.31                                                                                     | 22.71                                                                          | 22.68                  |                      |          |  |
| 14                              | 64QAM      | 1       | 3         | 22.38                                                                                     | 22.44                                                                          | 22.31                  |                      |          |  |
| 14                              | 64QAM      | 1       | 5         | 22.34                                                                                     | 22.39                                                                          | 22.33                  | 23.5                 | 2        |  |
| 14                              | 64QAM      | 3       | 0         | 22.32                                                                                     | 22.30                                                                          | 22.30                  |                      |          |  |
| 14                              | 64QAM      | 3       | 1         | 22.28                                                                                     | 22.32                                                                          | 22.34                  |                      |          |  |
| 14                              | 64QAM      | 3       | 3         | 22.32                                                                                     | 22.37                                                                          | 22.07                  | 22.5                 | 3        |  |
| 14                              | 256QAM     | 1       | 0         | 19.09                                                                                     | 19.20                                                                          | 19.09                  |                      |          |  |
| 14                              | 256QAM     | 1       | 3         | 19.07                                                                                     | 19.21                                                                          | 18.99                  |                      |          |  |
| 14                              | 256QAM     | 1       | 5         | 19.08                                                                                     | 19.16                                                                          | 18.98                  | 20.5                 | 5        |  |
| 14                              | 256QAM     | 3       | 0         | 19.15                                                                                     | 19.11                                                                          | 19.00                  |                      |          |  |
| 14                              | 256QAM     | 3       | 1         | 19.15                                                                                     | 19.22                                                                          | 19.10                  |                      |          |  |
| 14                              | 256QAM     | 3       | 3         | 19.09                                                                                     | 19.14                                                                          | 19.02                  |                      |          |  |
| 14                              | 256QAM     | 6       | 0         | 19.13                                                                                     | 19.24                                                                          | 19.17                  | 20.5                 | 5        |  |



| Ant1 Band 12 Down Power / DSI 1/3/5 |            |         |           |                      |                         |                       |                     |          |  |  |
|-------------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|--|
| BW (MHz)                            | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                             |            |         |           | 23600                | 23605                   | 23130                 |                     |          |  |  |
| Frequency (MHz)                     |            |         |           | 707.5                | 707.5                   | 711.1                 |                     |          |  |  |
| 10                                  | QPSK       | 1       | 0         | 23.50                | 23.64                   | 23.42                 | 24.5                | 0        |  |  |
| 10                                  | QPSK       | 1       | 25        | 23.38                | 23.32                   | 23.33                 |                     |          |  |  |
| 10                                  | QPSK       | 1       | 49        | 23.49                | 23.45                   | 23.50                 |                     |          |  |  |
| 10                                  | QPSK       | 25      | 0         | 23.32                | 23.35                   | 23.23                 | 24.5                | 0        |  |  |
| 10                                  | QPSK       | 25      | 12        | 23.53                | 23.46                   | 23.39                 |                     |          |  |  |
| 10                                  | QPSK       | 25      | 25        | 23.39                | 23.53                   | 23.20                 |                     |          |  |  |
| 10                                  | QPSK       | 50      | 0         | 23.39                | 23.39                   | 23.43                 | 24.5                | 0        |  |  |
| 10                                  | 16QAM      | 1       | 0         | 23.57                | 23.60                   | 23.43                 |                     |          |  |  |
| 10                                  | 16QAM      | 1       | 25        | 23.59                | 23.39                   | 23.53                 |                     |          |  |  |
| 10                                  | 16QAM      | 1       | 49        | 23.44                | 23.55                   | 23.46                 | 23.5                | 1        |  |  |
| 10                                  | 16QAM      | 25      | 0         | 22.13                | 22.24                   | 22.36                 |                     |          |  |  |
| 10                                  | 16QAM      | 25      | 12        | 22.50                | 22.57                   | 22.49                 |                     |          |  |  |
| 10                                  | 16QAM      | 25      | 25        | 22.35                | 22.43                   | 22.46                 | 23.5                | 1        |  |  |
| 10                                  | 16QAM      | 50      | 0         | 22.56                | 22.36                   | 22.51                 |                     |          |  |  |
| 10                                  | 64QAM      | 1       | 0         | 23.04                | 23.08                   | 22.99                 | 23.5                | 1        |  |  |
| 10                                  | 64QAM      | 1       | 25        | 22.81                | 22.87                   | 22.68                 |                     |          |  |  |
| 10                                  | 64QAM      | 1       | 49        | 22.75                | 23.03                   | 22.75                 |                     |          |  |  |
| 10                                  | 64QAM      | 25      | 0         | 21.14                | 21.34                   | 21.47                 | 22.5                | 2        |  |  |
| 10                                  | 64QAM      | 25      | 12        | 21.35                | 21.63                   | 21.58                 |                     |          |  |  |
| 10                                  | 64QAM      | 25      | 25        | 21.36                | 21.31                   | 21.62                 |                     |          |  |  |
| 10                                  | 64QAM      | 50      | 0         | 21.46                | 21.26                   | 21.44                 | 20.5                | 4        |  |  |
| 10                                  | 256QAM     | 1       | 0         | 19.14                | 19.33                   | 19.07                 |                     |          |  |  |
| 10                                  | 256QAM     | 1       | 25        | 19.06                | 19.07                   | 19.28                 |                     |          |  |  |
| 10                                  | 256QAM     | 1       | 49        | 18.99                | 19.28                   | 19.38                 | 20.5                | 4        |  |  |
| 10                                  | 256QAM     | 25      | 0         | 19.29                | 19.48                   | 19.52                 |                     |          |  |  |
| 10                                  | 256QAM     | 25      | 12        | 19.53                | 19.38                   | 19.25                 |                     |          |  |  |
| 10                                  | 256QAM     | 25      | 25        | 19.10                | 19.29                   | 19.23                 | 20.5                | 4        |  |  |
| 10                                  | 256QAM     | 50      | 0         | 19.32                | 19.29                   | 19.37                 |                     |          |  |  |
| Channel                             |            |         |           | 23035                | 23095                   | 23155                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)                     |            |         |           | 701.5                | 707.5                   | 713.5                 |                     |          |  |  |
| 5                                   | QPSK       | 1       | 0         | 23.49                | 23.45                   | 23.45                 | 24.5                | 0        |  |  |
| 5                                   | QPSK       | 1       | 12        | 23.40                | 23.60                   | 23.53                 |                     |          |  |  |
| 5                                   | QPSK       | 1       | 24        | 23.48                | 23.50                   | 23.47                 |                     |          |  |  |
| 5                                   | QPSK       | 12      | 0         | 23.49                | 23.57                   | 23.39                 | 24.5                | 0        |  |  |
| 5                                   | QPSK       | 12      | 7         | 23.34                | 23.52                   | 23.60                 |                     |          |  |  |
| 5                                   | QPSK       | 12      | 13        | 23.50                | 23.55                   | 23.17                 |                     |          |  |  |
| 5                                   | QPSK       | 25      | 0         | 23.60                | 23.56                   | 23.49                 | 24.5                | 0        |  |  |
| 5                                   | 16QAM      | 1       | 0         | 23.54                | 23.40                   | 23.47                 |                     |          |  |  |
| 5                                   | 16QAM      | 1       | 12        | 23.41                | 23.62                   | 23.60                 |                     |          |  |  |
| 5                                   | 16QAM      | 1       | 24        | 23.57                | 23.54                   | 23.44                 | 23.5                | 1        |  |  |
| 5                                   | 16QAM      | 12      | 0         | 22.42                | 22.35                   | 22.49                 |                     |          |  |  |
| 5                                   | 16QAM      | 12      | 7         | 22.31                | 22.30                   | 22.60                 |                     |          |  |  |
| 5                                   | 16QAM      | 12      | 13        | 22.63                | 22.63                   | 22.33                 | 23.5                | 1        |  |  |
| 5                                   | 16QAM      | 25      | 0         | 22.32                | 22.38                   | 22.36                 |                     |          |  |  |
| 5                                   | 64QAM      | 1       | 0         | 22.60                | 22.62                   | 22.54                 |                     |          |  |  |
| 5                                   | 64QAM      | 1       | 12        | 22.50                | 22.31                   | 22.37                 | 23.5                | 1        |  |  |
| 5                                   | 64QAM      | 1       | 24        | 22.61                | 22.48                   | 22.26                 |                     |          |  |  |
| 5                                   | 64QAM      | 12      | 0         | 21.31                | 21.63                   | 21.50                 |                     |          |  |  |
| 5                                   | 64QAM      | 12      | 7         | 21.50                | 21.40                   | 21.23                 | 22.5                | 2        |  |  |
| 5                                   | 64QAM      | 12      | 13        | 21.56                | 21.22                   | 21.29                 |                     |          |  |  |
| 5                                   | 64QAM      | 25      | 0         | 21.48                | 21.21                   | 21.49                 |                     |          |  |  |
| 5                                   | 64QAM      | 1       | 0         | 22.60                | 22.62                   | 22.54                 | 20.5                | 4        |  |  |
| 5                                   | 256QAM     | 1       | 12        | 19.09                | 19.43                   | 19.23                 |                     |          |  |  |
| 5                                   | 256QAM     | 1       | 24        | 19.26                | 19.33                   | 18.97                 |                     |          |  |  |
| 5                                   | 256QAM     | 12      | 0         | 19.52                | 19.45                   | 19.28                 | 20.5                | 4        |  |  |
| 5                                   | 256QAM     | 12      | 7         | 19.53                | 19.49                   | 19.34                 |                     |          |  |  |
| 5                                   | 256QAM     | 12      | 13        | 19.15                | 19.40                   | 19.29                 |                     |          |  |  |
| 5                                   | 256QAM     | 25      | 0         | 19.16                | 19.35                   | 19.37                 | 20.5                | 4        |  |  |
| Channel                             |            |         |           | 23025                | 23095                   | 23165                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)                     |            |         |           | 700.5                | 707.5                   | 714.5                 |                     |          |  |  |
| 3                                   | QPSK       | 1       | 0         | 23.43                | 23.51                   | 23.48                 | 24.5                | 0        |  |  |
| 3                                   | QPSK       | 1       | 8         | 23.40                | 23.55                   | 23.62                 |                     |          |  |  |
| 3                                   | QPSK       | 1       | 14        | 23.53                | 23.39                   | 23.20                 |                     |          |  |  |
| 3                                   | QPSK       | 8       | 0         | 23.45                | 23.58                   | 23.15                 | 24.5                | 0        |  |  |
| 3                                   | QPSK       | 8       | 4         | 23.13                | 23.52                   | 23.14                 |                     |          |  |  |
| 3                                   | QPSK       | 8       | 7         | 23.29                | 23.63                   | 23.13                 |                     |          |  |  |
| 3                                   | QPSK       | 15      | 0         | 23.48                | 23.36                   | 23.36                 | 24.5                | 0        |  |  |
| 3                                   | 16QAM      | 1       | 0         | 23.52                | 23.59                   | 23.44                 |                     |          |  |  |
| 3                                   | 16QAM      | 1       | 8         | 23.57                | 23.46                   | 23.42                 |                     |          |  |  |
| 3                                   | 16QAM      | 1       | 14        | 23.50                | 23.59                   | 23.28                 | 24.5                | 0        |  |  |
| 3                                   | 16QAM      | 8       | 0         | 22.41                | 22.55                   | 22.55                 |                     |          |  |  |
| 3                                   | 16QAM      | 8       | 4         | 22.23                | 22.21                   | 22.48                 |                     |          |  |  |
| 3                                   | 16QAM      | 8       | 7         | 22.27                | 22.47                   | 22.64                 | 23.5                | 1        |  |  |
| 3                                   | 16QAM      | 15      | 0         | 22.63                | 22.26                   | 22.43                 |                     |          |  |  |
| 3                                   | 64QAM      | 1       | 0         | 22.51                | 22.52                   | 22.54                 |                     |          |  |  |
| 3                                   | 64QAM      | 1       | 8         | 22.53                | 22.54                   | 22.56                 | 23.5                | 1        |  |  |
| 3                                   | 64QAM      | 1       | 14        | 22.08                | 22.37                   | 22.17                 |                     |          |  |  |
| 3                                   | 64QAM      | 8       | 0         | 21.55                | 21.13                   | 21.52                 |                     |          |  |  |
| 3                                   | 64QAM      | 8       | 4         | 21.48                | 21.55                   | 21.14                 | 22.5                | 2        |  |  |
| 3                                   | 64QAM      | 8       | 7         | 21.54                | 21.37                   | 21.28                 |                     |          |  |  |
| 3                                   | 64QAM      | 15      | 0         | 21.38                | 21.17                   | 21.06                 |                     |          |  |  |
| 3                                   | 256QAM     | 1       | 0         | 19.16                | 19.00                   | 19.12                 | 20.5                | 4        |  |  |
| 3                                   | 256QAM     | 1       | 8         | 19.13                | 19.11                   | 19.34                 |                     |          |  |  |
| 3                                   | 256QAM     | 1       | 14        | 19.00                | 19.14                   | 19.16                 |                     |          |  |  |
| 3                                   | 256QAM     | 8       | 0         | 19.21                | 18.94                   | 19.34                 | 20.5                | 4        |  |  |
| 3                                   | 256QAM     | 8       | 4         | 19.17                | 19.27                   | 19.44                 |                     |          |  |  |
| 3                                   | 256QAM     | 8       | 7         | 19.07                | 19.10                   | 19.09                 |                     |          |  |  |
| 3                                   | 256QAM     | 15      | 0         | 18.58                | 19.23                   | 19.22                 | 20.5                | 4        |  |  |
| Channel                             |            |         |           | 23077                | 23095                   | 23173                 | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)                     |            |         |           | 699.7                | 707.5                   | 715.3                 |                     |          |  |  |
| 1.4                                 | QPSK       | 1       | 0         | 23.43                | 23.47                   | 23.37                 | 24.5                | 0        |  |  |
| 1.4                                 | QPSK       | 1       | 3         | 23.33                | 23.34                   | 23.34                 |                     |          |  |  |
| 1.4                                 | QPSK       | 1       | 5         | 23.22                | 23.18                   | 23.06                 |                     |          |  |  |
| 1.4                                 | QPSK       | 3       | 0         | 23.31                | 23.43                   | 23.32                 |                     |          |  |  |
| 1.4                                 | QPSK       | 3       | 1         | 23.53                | 23.50                   | 23.54                 |                     |          |  |  |
| 1.4                                 | QPSK       | 3       | 3         | 23.48                | 23.31                   | 23.14                 | 24.5                | 0        |  |  |
| 1.4                                 | QPSK       | 6       | 0         | 23.55                | 23.30                   | 23.45                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 1       | 0         | 23.46                | 23.24                   | 23.33                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 1       | 3         | 23.46                | 23.49                   | 23.24                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 1       | 5         | 23.48                | 23.49                   | 23.25                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 3       | 0         | 23.16                | 23.10                   | 23.02                 | 24.5                | 0        |  |  |
| 1.4                                 | 16QAM      | 3       | 1         | 23.14                | 23.35                   | 23.11                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 3       | 3         | 23.11                | 23.22                   | 23.36                 |                     |          |  |  |
| 1.4                                 | 16QAM      | 6       | 0         | 22.54                | 22.39                   | 22.37                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 1       | 0         | 22.32                | 22.53                   | 22.44                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 1       | 3         | 22.22                | 22.38                   | 22.08                 | 23.5                | 1        |  |  |
| 1.4                                 | 64QAM      | 1       | 5         | 22.48                | 22.54                   | 22.07                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 3       | 0         | 22.04                | 22.16                   | 22.33                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 3       | 1         | 22.36                | 22.47                   | 22.25                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 3       | 3         | 22.20                | 22.08                   | 22.12                 |                     |          |  |  |
| 1.4                                 | 64QAM      | 6       | 0         | 21.10                | 21.36                   | 20.96                 | 22.5                | 2        |  |  |
| 1.4                                 | 256QAM     | 1       | 0         | 19.15                | 19.18                   | 18.90                 |                     |          |  |  |
| 1.4                                 | 256QAM     | 1       | 3         | 19.24                | 19.01                   | 19.09                 |                     |          |  |  |
| 1.4                                 | 256QAM     | 1       | 5         | 18.98                | 19.38                   | 19.25                 |                     |          |  |  |
| 1.4                                 | 256QAM     | 3       | 0         | 19.29                | 19.38                   | 19.27                 |                     |          |  |  |
| 1.4                                 | 256QAM     | 3       | 1         | 18.89                | 18.99                   | 18.99                 | 20.5                | 4        |  |  |
| 1.4                                 | 256QAM     | 3       | 3         | 19.01                | 19.28                   | 19.09                 |                     |          |  |  |
| 1.4                                 | 256QAM     | 6       | 0         | 19.21                | 19.42                   | 19.37                 |                     |          |  |  |

| Ant1 Band 17 Down Power / DSI 1/3/5 |            |         |           |                       |                          |                        |                        |          |  |
|-------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------------------------|----------|--|
| BW (MHz)                            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm)    | MPR (db) |  |
| Channel                             |            |         |           | 23760                 | 23790                    | 23800                  |                        |          |  |
| Frequency (MHz)                     |            |         |           | 709                   | 710                      | 710                    |                        |          |  |
| 10                                  | QPSK       | 1       | 0         | 23.74                 | 23.82                    | 23.75                  | 24.5                   | 0        |  |
| 10                                  | QPSK       | 1       | 25        | 23.47                 | 23.68                    | 23.70                  |                        |          |  |
| 10                                  | QPSK       | 1       | 49        | 23.48                 | 23.79                    | 23.73                  |                        |          |  |
| 10                                  | QPSK       | 25      | 0         | 23.25                 | 23.36                    | 23.17                  |                        |          |  |
| 10                                  | QPSK       | 25      | 12        | 23.23                 | 23.64                    | 23.26                  | 24.5                   | 0        |  |
| 10                                  | QPSK       | 25      | 25        | 23.37                 | 23.45                    | 23.55                  |                        |          |  |
| 10                                  | QPSK       | 50      | 0         | 23.31                 | 23.52                    | 23.36                  |                        |          |  |
| 10                                  | 16QAM      | 1       | 0         | 23.66                 | 23.58                    | 23.37                  |                        |          |  |
| 10                                  | 16QAM      | 1       | 25        | 23.51                 | 23.69                    | 23.69                  | 24.5                   | 0        |  |
| 10                                  | 16QAM      | 1       | 49        | 23.35                 | 23.48                    | 23.30                  |                        |          |  |
| 10                                  | 16QAM      | 25      | 0         | 22.16                 | 22.48                    | 22.12                  |                        |          |  |
| 10                                  | 16QAM      | 25      | 12        | 22.25                 | 22.52                    | 22.57                  |                        |          |  |
| 10                                  | 16QAM      | 25      | 25        | 22.28                 | 22.44                    | 22.37                  | 23.5                   | 1        |  |
| 10                                  | 16QAM      | 50      | 0         | 22.25                 | 22.52                    | 22.50                  |                        |          |  |
| 10                                  | 64QAM      | 1       | 0         | 22.75                 | 22.71                    | 22.64                  |                        |          |  |
| 10                                  | 64QAM      | 1       | 25        | 22.50                 | 22.33                    | 22.36                  |                        |          |  |
| 10                                  | 64QAM      | 1       | 49        | 22.32                 | 22.42                    | 22.62                  | 23.5                   | 1        |  |
| 10                                  | 64QAM      | 25      | 0         | 21.13                 | 21.35                    | 21.39                  |                        |          |  |
| 10                                  | 64QAM      | 25      | 12        | 21.42                 | 21.58                    | 21.29                  |                        |          |  |
| 10                                  | 64QAM      | 25      | 25        | 21.41                 | 21.41                    | 21.33                  |                        |          |  |
| 10                                  | 64QAM      | 50      | 0         | 21.27                 | 21.55                    | 21.38                  | 22.5                   | 2        |  |
| 10                                  | 256QAM     | 1       | 0         | 19.30                 | 19.44                    | 19.13                  |                        |          |  |
| 10                                  | 256QAM     | 1       | 25        | 19.19                 | 18.99                    | 19.39                  |                        |          |  |
| 10                                  | 256QAM     | 1       | 49        | 19.06                 | 19.12                    | 19.20                  |                        |          |  |
| 10                                  | 256QAM     | 25      | 0         | 19.09                 | 19.55                    | 19.14                  | 20.5                   | 4        |  |
| 10                                  | 256QAM     | 25      | 12        | 19.28                 | 19.33                    | 19.43                  |                        |          |  |
| 10                                  | 256QAM     | 25      | 25        | 19.31                 | 19.39                    | 19.14                  |                        |          |  |
| 10                                  | 256QAM     | 50      | 0         | 19.36                 | 19.23                    | 19.27                  |                        |          |  |
| Channel                             |            |         |           | 23755                 | 23790                    | 23825                  | Start/stop limit (dbm) | MPR (db) |  |
| Frequency (MHz)                     |            |         |           | 706.5                 | 710                      | 713.5                  |                        |          |  |
| 5                                   | QPSK       | 1       | 0         | 23.64                 | 23.73                    | 23.68                  | 24.5                   | 0        |  |
| 5                                   | QPSK       | 1       | 12        | 23.70                 | 23.81                    | 23.72                  |                        |          |  |
| 5                                   | QPSK       | 1       | 24        | 23.76                 | 23.74                    | 23.73                  |                        |          |  |
| 5                                   | QPSK       | 12      | 0         | 23.51                 | 23.52                    | 23.59                  |                        |          |  |
| 5                                   | QPSK       | 12      | 7         | 23.60                 | 23.32                    | 23.29                  | 24.5                   | 0        |  |
| 5                                   | QPSK       | 12      | 13        | 23.41                 | 23.75                    | 23.62                  |                        |          |  |
| 5                                   | QPSK       | 25      | 0         | 23.65                 | 23.30                    | 23.39                  |                        |          |  |
| 5                                   | 16QAM      | 1       | 0         | 23.67                 | 23.38                    | 23.34                  |                        |          |  |
| 5                                   | 16QAM      | 1       | 12        | 23.76                 | 23.44                    | 23.70                  | 24.5                   | 0        |  |
| 5                                   | 16QAM      | 1       | 24        | 23.76                 | 23.73                    | 23.71                  |                        |          |  |
| 5                                   | 16QAM      | 12      | 0         | 22.51                 | 22.47                    | 22.34                  |                        |          |  |
| 5                                   | 16QAM      | 12      | 7         | 22.69                 | 22.40                    | 22.56                  |                        |          |  |
| 5                                   | 16QAM      | 12      | 13        | 22.59                 | 22.38                    | 22.69                  | 23.5                   | 1        |  |
| 5                                   | 16QAM      | 25      | 0         | 23.02                 | 22.62                    | 22.53                  |                        |          |  |
| 5                                   | 64QAM      | 1       | 0         | 22.82                 | 22.50                    | 22.41                  |                        |          |  |
| 5                                   | 64QAM      | 1       | 12        | 22.65                 | 22.55                    | 22.43                  |                        |          |  |
| 5                                   | 64QAM      | 1       | 24        | 22.51                 | 22.69                    | 22.60                  | 23.5                   | 1        |  |
| 5                                   | 64QAM      | 12      | 0         | 21.30                 | 21.26                    | 21.36                  |                        |          |  |
| 5                                   | 64QAM      | 12      | 7         | 21.47                 | 21.62                    | 21.37                  |                        |          |  |
| 5                                   | 64QAM      | 12      | 13        | 21.66                 | 21.61                    | 21.44                  |                        |          |  |
| 5                                   | 64QAM      | 25      | 0         | 22.00                 | 21.59                    | 21.52                  | 22.5                   | 2        |  |
| 5                                   | 256QAM     | 1       | 0         | 19.31                 | 18.96                    | 19.34                  |                        |          |  |
| 5                                   | 256QAM     | 1       | 12        | 19.36                 | 18.23                    | 19.29                  |                        |          |  |
| 5                                   | 256QAM     | 1       | 24        | 19.15                 | 19.32                    | 19.39                  |                        |          |  |
| 5                                   | 256QAM     | 12      | 0         | 19.37                 | 19.20                    | 19.34                  | 20.5                   | 4        |  |
| 5                                   | 256QAM     | 12      | 7         | 19.37                 | 19.34                    | 19.47                  |                        |          |  |
| 5                                   | 256QAM     | 12      | 13        | 19.29                 | 19.49                    | 19.01                  |                        |          |  |
| 5                                   | 256QAM     | 25      | 0         | 19.15                 | 19.22                    | 19.22                  |                        |          |  |

| Ant2 Full Power/DS1 1/3/4/5 |                 |                           |       |        |                           |        |       |        |                     |
|-----------------------------|-----------------|---------------------------|-------|--------|---------------------------|--------|-------|--------|---------------------|
| GSM1900                     |                 | Burst Average Power (dBm) |       |        | Frame Average Power (dBm) |        |       |        |                     |
| TX Channel                  | Frequency (MHz) | 1850.2                    | 1860  | 1869.8 | Tune-up Limit (dBm)       | 1850.2 | 1860  | 1869.8 | Tune-up Limit (dBm) |
| GSM 1 Tx slot               | 30.11           | 30.35                     | 30.33 | 30.31  | 31.50                     | 21.11  | 21.35 | 21.31  | 21.51               |
| GPRS 1 Tx slot              | 30.18           | 30.33                     | 30.33 | 30.30  | 31.50                     | 21.18  | 21.33 | 21.30  | 22.50               |
| GPRS 2 Tx slots             | 26.77           | 27.24                     | 27.00 | 28.50  | 20.77                     | 21.24  | 21.00 | 22.50  |                     |
| GPRS 3 Tx slots             | 25.17           | 25.51                     | 25.31 | 26.70  | 20.91                     | 21.25  | 21.05 | 22.44  |                     |
| GPRS 4 Tx slots             | 23.80           | 24.12                     | 24.01 | 25.50  | 20.80                     | 21.12  | 21.01 | 22.50  |                     |
| EDGE 1 Tx slot              | 26.11           | 26.32                     | 26.19 | 27.85  | 17.11                     | 17.32  | 17.19 | 18.85  |                     |
| EDGE 2 Tx slots             | 23.18           | 23.31                     | 23.26 | 24.85  | 17.18                     | 17.31  | 17.26 | 18.85  |                     |
| EDGE 3 Tx slots             | 21.50           | 21.57                     | 21.51 | 23.05  | 17.24                     | 17.31  | 17.25 | 18.85  |                     |
| EDGE 4 Tx slots             | 20.05           | 20.16                     | 20.05 | 21.85  | 17.05                     | 17.16  | 17.05 | 18.85  |                     |

| Ant2 Full Power/DS1 1/4 |                    |       |       | Ant2 Full Power/DS1 1/4 |          |       |                     |
|-------------------------|--------------------|-------|-------|-------------------------|----------|-------|---------------------|
| Band                    | WCDMA II           |       |       | Tune-up Limit (dBm)     | WCDMA IV |       | Tune-up Limit (dBm) |
|                         | 5962               | 9400  | 9638  |                         | 1312     | 1413  | 1513                |
| TX Channel              | 5962               | 9400  | 9638  |                         | 1312     | 1413  | 1513                |
| Rx Channel              | 5962               | 9400  | 9638  |                         | 1312     | 1413  | 1513                |
| Frequency (MHz)         | 5962               | 9400  | 9638  |                         | 1312     | 1413  | 1513                |
| 3GPP Rel 99             | AMR 12.2kbps       | 24.10 | 24.35 | 24.41                   | 25.00    | 24.00 | 24.22               |
| 3GPP Rel 99             | AMR 12.2kbps       | 24.10 | 24.35 | 24.41                   | 25.00    | 24.00 | 24.22               |
| 3GPP Rel 99             | RMC 12.2kbps       | 24.34 | 24.45 | 24.43                   | 25.00    | 24.01 | 24.32               |
| 3GPP Rel 6              | HSDPA Subtest-1    | 22.99 | 23.41 | 23.50                   | 24.00    | 23.02 | 23.25               |
| 3GPP Rel 6              | HSDPA Subtest-2    | 22.95 | 23.42 | 23.47                   | 24.00    | 23.06 | 23.26               |
| 3GPP Rel 6              | HSDPA Subtest-3    | 22.97 | 22.93 | 22.95                   | 23.50    | 22.52 | 22.75               |
| 3GPP Rel 6              | HSDPA Subtest-4    | 22.94 | 22.92 | 22.98                   | 23.50    | 22.65 | 22.73               |
| 3GPP Rel 8              | DC-HSDPA Subtest-1 | 22.98 | 23.35 | 23.44                   | 24.00    | 22.97 | 23.16               |
| 3GPP Rel 8              | DC-HSDPA Subtest-2 | 22.98 | 23.34 | 23.40                   | 24.00    | 22.94 | 23.21               |
| 3GPP Rel 8              | DC-HSDPA Subtest-3 | 22.95 | 22.85 | 22.87                   | 23.50    | 22.46 | 22.65               |
| 3GPP Rel 8              | DC-HSDPA Subtest-4 | 22.85 | 22.90 | 22.96                   | 23.50    | 22.59 | 22.65               |
| 3GPP Rel 6              | HSUPA Subtest-1    | 23.38 | 23.36 | 23.43                   | 24.00    | 23.00 | 23.17               |
| 3GPP Rel 6              | HSUPA Subtest-2    | 21.39 | 21.34 | 21.43                   | 22.00    | 21.14 | 21.14               |
| 3GPP Rel 6              | HSUPA Subtest-3    | 21.37 | 22.39 | 22.41                   | 23.00    | 22.08 | 22.22               |
| 3GPP Rel 6              | HSUPA Subtest-4    | 21.40 | 21.49 | 21.38                   | 22.00    | 21.11 | 21.19               |
| 3GPP Rel 6              | HSUPA Subtest-5    | 23.36 | 23.40 | 23.40                   | 24.00    | 22.90 | 23.20               |

| Ant 2 Band 2 Full Power / DSI 1/4 |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
|-----------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|--|--|------|---|--|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Mid Ch./Freq. | Power High Ch./Freq. | Time-up Init. (sec) | MPR (dB) |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 20                                | QPSK       | 1       | 0         | 24.40               | 24.44               | 24.32                | 25.5                | 0        |  |  |      |   |  |  |
| 20                                | QPSK       | 1       | 49        | 24.28               | 24.28               | 24.28                |                     |          |  |  |      |   |  |  |
| 20                                | QPSK       | 1       | 99        | 24.27               | 24.26               | 24.32                |                     |          |  |  |      |   |  |  |
| 20                                | QPSK       | 50      | 0         | 23.48               | 23.55               | 23.32                |                     |          |  |  |      |   |  |  |
| 20                                | QPSK       | 50      | 24        | 23.48               | 23.44               | 23.44                |                     |          |  |  |      |   |  |  |
| 20                                | QPSK       | 50      | 50        | 23.46               | 23.41               | 23.46                | 24.5                | 1        |  |  |      |   |  |  |
| 20                                | QPSK       | 100     | 0         | 23.40               | 23.47               | 23.43                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 100     | 0         | 23.77               | 23.77               | 23.77                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 49        | 23.60               | 23.58               | 23.61                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 99        | 23.57               | 23.59               | 23.61                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 0         | 22.48               | 22.50               | 22.38                | 23.5                | 2        |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 24        | 22.48               | 22.44               | 22.45                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 50        | 22.46               | 22.42               | 22.46                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 100     | 0         | 22.45               | 22.40               | 22.42                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 0         | 22.82               | 22.54               | 22.59                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 49        | 22.58               | 22.49               | 22.51                | 23.5                | 2        |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 99        | 22.50               | 22.50               | 22.50                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 0         | 21.47               | 21.30               | 21.35                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 24        | 21.47               | 21.42               | 21.42                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 50        | 21.44               | 21.39               | 21.44                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 100     | 0         | 21.31               | 21.42               | 21.19                | 22.5                | 3        |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 49        | 19.16               | 19.14               | 19.20                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 1       | 99        | 19.15               | 19.14               | 19.17                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 0         | 18.23               | 18.23               | 18.23                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 24        | 18.35               | 19.33               | 19.32                |                     |          |  |  |      |   |  |  |
| 20                                | 16QAM      | 50      | 50        | 19.38               | 19.34               | 19.32                | 20.5                | 5        |  |  |      |   |  |  |
| 20                                | 16QAM      | 100     | 0         | 19.33               | 19.33               | 19.33                |                     |          |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 0         | 24.34               | 24.33               | 24.28                | 25.5                | 0        |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 37        | 24.25               | 24.25               | 24.25                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 74        | 24.24               | 24.23               | 24.27                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 36      | 0         | 23.43               | 23.34               | 23.27                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 36      | 20        | 23.43               | 23.37               | 23.40                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 36      | 39        | 23.40               | 23.39               | 23.41                | 24.5                | 1        |  |  |      |   |  |  |
| 16                                | QPSK       | 75      | 0         | 23.38               | 23.37               | 23.37                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 23.64               | 23.60               | 23.60                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 37        | 23.60               | 23.58               | 23.53                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 74        | 23.57               | 23.53               | 23.57                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 0         | 22.40               | 22.37               | 22.25                | 23.5                | 2        |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 20        | 22.42               | 22.38               | 22.37                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 39        | 22.46               | 22.38               | 22.37                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 75      | 0         | 22.44               | 22.38               | 22.36                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 22.64               | 22.46               | 22.57                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 37        | 22.57               | 22.45               | 22.57                | 23.5                | 2        |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 74        | 22.49               | 22.42               | 22.47                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 0         | 21.39               | 21.34               | 21.29                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 20        | 21.40               | 21.35               | 21.37                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 39        | 21.40               | 21.35               | 21.37                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 75      | 0         | 21.38               | 21.36               | 21.36                | 22.5                | 3        |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 19.26               | 19.26               | 19.26                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 37        | 19.17               | 19.10               | 19.04                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 74        | 19.15               | 19.08               | 19.11                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 0         | 19.22               | 19.13               | 19.06                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 20        | 19.26               | 19.31               | 19.26                | 20.5                | 5        |  |  |      |   |  |  |
| 16                                | 16QAM      | 36      | 39        | 19.28               | 19.22               | 19.25                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 75      | 0         | 19.33               | 19.28               | 19.28                |                     |          |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 0         | 24.18               | 24.18               | 24.18                | 25.5                | 0        |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 25        | 24.18               | 24.20               | 24.21                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 1       | 49        | 24.13               | 24.19               | 24.24                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 25      | 0         | 23.18               | 23.14               | 23.14                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 25      | 12        | 23.38               | 23.32               | 23.37                |                     |          |  |  |      |   |  |  |
| 16                                | QPSK       | 25      | 25        | 23.27               | 23.33               | 23.39                | 24.5                | 1        |  |  |      |   |  |  |
| 16                                | QPSK       | 36      | 0         | 23.36               | 23.32               | 23.32                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 23.24               | 23.50               | 23.60                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 26        | 23.61               | 23.57               | 23.62                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 49        | 23.56               | 23.61               | 23.56                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 0         | 22.33               | 22.29               | 22.29                | 23.5                | 2        |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 12        | 22.38               | 22.32               | 22.38                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 25        | 22.27               | 22.40               | 22.30                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 50      | 0         | 22.39               | 22.32               | 22.39                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 22.29               | 22.61               | 22.60                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 24        | 22.60               | 22.62               | 22.60                | 23.5                | 2        |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 49        | 22.59               | 22.66               | 22.73                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 0         | 21.39               | 21.32               | 21.29                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 12        | 21.40               | 21.30               | 21.36                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 25        | 21.29               | 21.30               | 21.36                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 50      | 0         | 21.08               | 21.33               | 21.44                | 22.5                | 3        |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 0         | 19.11               | 19.05               | 19.05                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 26        | 19.05               | 19.22               | 19.06                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 1       | 49        | 19.05               | 19.10               | 19.15                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 0         | 19.25               | 19.25               | 19.17                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 12        | 19.23               | 19.13               | 19.19                | 20.5                | 5        |  |  |      |   |  |  |
| 16                                | 16QAM      | 25      | 25        | 19.16               | 19.26               | 19.21                |                     |          |  |  |      |   |  |  |
| 16                                | 16QAM      | 50      | 0         | 19.20               | 19.22               | 19.21                |                     |          |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 1       | 0         | 24.15               | 24.17               | 24.15                | 25.5                | 0        |  |  |      |   |  |  |
| 5                                 | QPSK       | 1       | 12        | 24.25               | 24.23               | 24.20                |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 1       | 24        | 24.24               | 24.26               | 24.30                |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 12      | 0         | 23.39               | 23.37               | 23.39                |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 12      | 7         | 23.38               | 23.31               | 23.37                |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 25      | 0         | 23.21               | 23.31               | 23.36                | 24.5                | 1        |  |  |      |   |  |  |
| 5                                 | QPSK       | 12      | 13        | 23.38               | 23.31               | 23.37                |                     |          |  |  |      |   |  |  |
| 5                                 | QPSK       | 25      | 0         | 23.15               | 23.31               | 23.35                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 0         | 23.43               | 23.52               | 23.57                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 12        | 23.54               | 23.62               | 23.61                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 24        | 23.66               | 23.68               | 23.67                | 24.5                | 1        |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 0         | 22.42               | 22.38               | 22.28                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 7         | 22.46               | 22.37               | 22.27                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 14        | 22.46               | 22.34               | 22.37                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 25      | 0         | 22.41               | 22.31               | 22.37                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 0         | 22.41               | 22.44               | 22.43                | 23.5                | 2        |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 12        | 22.53               | 22.45               | 22.37                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 24        | 22.51               | 22.48               | 22.47                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 0         | 21.39               | 21.24               | 21.30                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 7         | 21.44               | 21.32               | 21.40                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 13        | 21.42               | 21.31               | 21.38                | 22.5                | 3        |  |  |      |   |  |  |
| 5                                 | 16QAM      | 25      | 0         | 21.37               | 21.28               | 21.36                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 0         | 19.08               | 19.08               | 19.08                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 12        | 19.08               | 19.06               | 19.15                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 1       | 24        | 19.07               | 19.21               | 19.15                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 0         | 19.24               | 19.13               | 19.16                | 20.5                | 5        |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 7         | 19.25               | 19.25               | 19.25                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 12      | 13        | 19.17               | 19.13               | 19.20                |                     |          |  |  |      |   |  |  |
| 5                                 | 16QAM      | 25      | 0         | 19.18               | 19.22               | 19.20                | 20.5                | 5        |  |  |      |   |  |  |
| 5                                 | 16QAM      | 100     | 0         | 19.18               | 19.22               | 19.18                |                     |          |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 3                                 | QPSK       | 1       | 0         | 24.14               | 24.20               | 24.18                | 25.5                | 0        |  |  |      |   |  |  |
| 3                                 | QPSK       | 1       | 8         | 24.28               | 24.26               | 24.26                |                     |          |  |  |      |   |  |  |
| 3                                 | QPSK       | 1       | 24        | 24.24               | 24.26               | 24.30                |                     |          |  |  |      |   |  |  |
| 3                                 | QPSK       | 8       | 0         | 23.27               | 23.30               | 23.32                |                     |          |  |  |      |   |  |  |
| 3                                 | QPSK       | 8       | 4         | 23.33               | 23.30               | 23.37                |                     |          |  |  |      |   |  |  |
| 3                                 | QPSK       | 8       | 12        | 23.39               | 23.30               | 23.34                | 24.5                | 1        |  |  |      |   |  |  |
| 3                                 | QPSK       | 15      | 0         | 23.30               | 23.29               | 23.30                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 0         | 23.42               | 23.55               | 23.43                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 8         | 23.57               | 23.55               | 23.53                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 16        | 23.53               | 23.56               | 23.56                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 0         | 22.46               | 22.37               | 22.31                | 24.5                | 1        |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 4         | 22.51               | 22.37               | 22.33                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 12        | 22.47               | 22.35               | 22.33                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 15      | 0         | 22.43               | 22.31               | 22.30                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 15      | 8         | 22.48               | 22.44               | 22.44                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 7         | 22.48               | 22.33               | 22.30                | 23.5                | 2        |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 15        | 22.43               | 22.31               | 22.30                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 24        | 22.48               | 22.44               | 22.47                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 4         | 21.49               | 21.30               | 21.35                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 16        | 21.49               | 21.30               | 21.35                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 15      | 0         | 21.36               | 21.21               | 21.26                | 22.5                | 3        |  |  |      |   |  |  |
| 3                                 | 16QAM      | 15      | 8         | 21.42               | 21.22               | 21.27                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 15      | 16        | 21.43               | 21.32               | 21.37                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 4         | 21.49               | 21.30               | 21.35                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 8       | 16        | 21.49               | 21.30               | 21.35                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 0         | 19.04               | 19.11               | 18.90                | 20.5                | 5        |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 8         | 19.15               | 19.12               | 19.13                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 16        | 19.06               | 19.11               | 19.18                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 24        | 19.15               | 19.13               | 19.15                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 32        | 19.15               | 19.13               | 19.15                |                     |          |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 40        | 19.15               | 19.18               | 19.27                | 20.5                | 5        |  |  |      |   |  |  |
| 3                                 | 16QAM      | 1       | 48        | 19.21               | 19.11               | 19.20                |                     |          |  |  |      |   |  |  |
| Channel                           |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                   |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 1       | 0         | 24.20               | 24.08               | 24.11                |                     |          |  |  | 25.5 | 0 |  |  |
| 1.4                               | QPSK       | 1       | 8         | 24.26               | 24.17               | 24.17                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 1       | 16        | 24.19               | 24.12               | 24.15                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 0         | 24.22               | 24.16               | 24.16                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 8         | 24.16               | 24.03               | 24.10                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 16        | 24.18               | 24.15               | 24.17                | 24.5                | 1        |  |  |      |   |  |  |
| 1.4                               | QPSK       | 6       | 0         | 23.29               | 23.21               | 23.26                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 6       | 8         | 23.48               | 23.40               | 23.45                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 24        | 23.59               | 23.40               | 23.56                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 32        | 23.55               | 23.42               | 23.54                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 40        | 23.24               | 23.24               | 23.24                | 24.5                | 1        |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 48        | 23.41               | 23.29               | 23.33                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 56        | 23.33               | 23.23               | 23.24                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 64        | 23.23               | 23.23               | 23.23                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 72        | 23.23               | 23.23               | 23.23                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 80        | 23.38               | 23.28               | 23.47                | 23.5                | 2        |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 88        | 23.51               | 23.39               | 23.48                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 96        | 23.52               | 23.39               | 23.48                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 104       | 23.52               | 23.39               | 23.48                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 112       | 23.52               | 23.39               | 23.48                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 120       | 23.45               | 23.29               | 23.31                | 23.5                | 2        |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 128       | 23.52               | 23.34               | 23.34                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 136       | 23.52               | 23.39               | 23.42                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 144       | 23.52               | 23.39               | 23.42                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 152       | 23.52               | 23.39               | 23.42                |                     |          |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 160       | 23.52               | 23.39               | 23.42                | 22.5                | 3        |  |  |      |   |  |  |
| 1.4                               | QPSK       | 3       | 168       | 23.52               | 23.39               | 23.42                |                     |          |  |  |      |   |  |  |
| 1.                                |            |         |           |                     |                     |                      |                     |          |  |  |      |   |  |  |

| Ant 2 Band 66 Full Power / DSI 1/4 |        |            |         |           |                           |                           |                           |                           |              |  |  |
|------------------------------------|--------|------------|---------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|--------------|--|--|
| BN                                 | [MHz]  | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch./Freq. | Power<br>Mid<br>Ch./Freq. | Power<br>Hgh<br>Ch./Freq. | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
| Frequency (MHz)                    |        |            |         |           | 13047                     | 13029                     | 13067                     | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| 20                                 | QPSK   | 1          | 0       | 23.94     | 24.00                     | 24.05                     |                           |                           |              |  |  |
| 20                                 | QPSK   | 1          | 49      | 24.12     | 24.02                     | 24.03                     |                           | 25.5                      | 0            |  |  |
| 20                                 | QPSK   | 1          | 99      | 23.92     | 23.96                     | 23.92                     |                           |                           |              |  |  |
| 20                                 | QPSK   | 50         | 0       | 23.18     | 23.25                     | 23.14                     |                           |                           |              |  |  |
| 20                                 | QPSK   | 50         | 24      | 23.22     | 23.22                     | 23.10                     |                           |                           |              |  |  |
| 20                                 | QPSK   | 50         | 50      | 23.19     | 23.13                     | 23.14                     |                           | 24.5                      | 1            |  |  |
| 20                                 | QPSK   | 100        | 0       | 23.20     | 23.26                     | 23.12                     |                           |                           |              |  |  |
| 20                                 | 16QAM  | 1          | 0       | 23.26     | 23.46                     | 23.47                     |                           |                           |              |  |  |
| 20                                 | 16QAM  | 1          | 49      | 23.46     | 23.42                     | 23.45                     |                           | 24.5                      | 1            |  |  |
| 20                                 | 16QAM  | 1          | 99      | 23.12     | 23.33                     | 23.30                     |                           |                           |              |  |  |
| 20                                 | 16QAM  | 50         | 0       | 22.35     | 22.13                     | 22.17                     |                           |                           |              |  |  |
| 20                                 | 16QAM  | 50         | 24      | 22.32     | 22.19                     | 22.14                     |                           | 23.5                      | 2            |  |  |
| 20                                 | 16QAM  | 50         | 50      | 22.24     | 22.16                     | 22.11                     |                           |                           |              |  |  |
| 20                                 | 16QAM  | 100        | 0       | 22.30     | 22.20                     | 22.19                     |                           |                           |              |  |  |
| 20                                 | 64QAM  | 1          | 0       | 22.25     | 22.46                     | 22.43                     |                           |                           |              |  |  |
| 20                                 | 64QAM  | 1          | 49      | 22.24     | 22.24                     | 22.31                     |                           | 23.5                      | 2            |  |  |
| 20                                 | 64QAM  | 1          | 99      | 22.38     | 22.28                     | 22.31                     |                           |                           |              |  |  |
| 20                                 | 64QAM  | 50         | 0       | 21.36     | 21.19                     | 21.19                     |                           |                           |              |  |  |
| 20                                 | 64QAM  | 50         | 24      | 21.32     | 21.18                     | 21.14                     |                           | 22.5                      | 3            |  |  |
| 20                                 | 64QAM  | 50         | 50      | 21.24     | 21.14                     | 21.17                     |                           |                           |              |  |  |
| 20                                 | 64QAM  | 100        | 0       | 21.30     | 21.26                     | 21.15                     |                           |                           |              |  |  |
| 20                                 | 256QAM | 1          | 0       | 18.94     | 18.96                     | 18.95                     |                           |                           |              |  |  |
| 20                                 | 256QAM | 1          | 49      | 18.12     | 18.02                     | 18.03                     |                           | 20.5                      | 5            |  |  |
| 20                                 | 256QAM | 1          | 99      | 18.92     | 18.96                     | 18.92                     |                           |                           |              |  |  |
| 20                                 | 256QAM | 50         | 0       | 18.16     | 18.25                     | 18.14                     |                           |                           |              |  |  |
| 20                                 | 256QAM | 50         | 24      | 18.22     | 18.22                     | 18.10                     |                           | 20.5                      | 5            |  |  |
| 20                                 | 256QAM | 50         | 50      | 18.19     | 18.13                     | 18.14                     |                           |                           |              |  |  |
| 20                                 | 256QAM | 100        | 0       | 18.20     | 18.20                     | 18.13                     |                           |                           |              |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
| Frequency (MHz)                    |        |            |         |           | 13047                     | 13029                     | 13067                     | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| 15                                 | QPSK   | 1          | 0       | 23.97     | 24.09                     | 24.03                     |                           |                           |              |  |  |
| 15                                 | QPSK   | 1          | 37      | 23.75     | 24.09                     | 24.03                     |                           | 25.5                      | 0            |  |  |
| 15                                 | QPSK   | 1          | 74      | 24.15     | 24.00                     | 23.96                     |                           |                           |              |  |  |
| 15                                 | QPSK   | 36         | 0       | 23.28     | 23.11                     | 23.09                     |                           |                           |              |  |  |
| 15                                 | QPSK   | 36         | 20      | 23.29     | 23.18                     | 23.09                     |                           | 24.5                      | 1            |  |  |
| 15                                 | QPSK   | 36         | 39      | 23.21     | 23.10                     | 23.11                     |                           |                           |              |  |  |
| 15                                 | QPSK   | 75         | 0       | 23.25     | 23.18                     | 23.06                     |                           |                           |              |  |  |
| 15                                 | 16QAM  | 1          | 0       | 23.28     | 23.46                     | 23.39                     |                           |                           |              |  |  |
| 15                                 | 16QAM  | 1          | 37      | 23.52     | 23.38                     | 23.34                     |                           | 24.5                      | 1            |  |  |
| 15                                 | 16QAM  | 1          | 74      | 23.41     | 23.31                     | 23.31                     |                           |                           |              |  |  |
| 15                                 | 16QAM  | 36         | 0       | 22.30     | 22.14                     | 22.09                     |                           |                           |              |  |  |
| 15                                 | 16QAM  | 36         | 20      | 22.30     | 22.21                     | 22.08                     |                           | 23.5                      | 2            |  |  |
| 15                                 | 16QAM  | 36         | 39      | 22.23     | 22.15                     | 22.11                     |                           |                           |              |  |  |
| 15                                 | 16QAM  | 75         | 0       | 22.28     | 22.19                     | 22.10                     |                           |                           |              |  |  |
| 15                                 | 64QAM  | 1          | 0       | 22.23     | 22.26                     | 22.42                     |                           | 23.5                      | 2            |  |  |
| 15                                 | 64QAM  | 1          | 37      | 22.53     | 22.31                     | 22.28                     |                           |                           |              |  |  |
| 15                                 | 64QAM  | 1          | 74      | 22.43     | 22.25                     | 22.27                     |                           |                           |              |  |  |
| 15                                 | 64QAM  | 36         | 0       | 21.30     | 21.12                     | 21.11                     |                           |                           |              |  |  |
| 15                                 | 64QAM  | 36         | 20      | 21.24     | 21.15                     | 21.14                     |                           | 22.5                      | 3            |  |  |
| 15                                 | 64QAM  | 36         | 39      | 21.29     | 21.16                     | 21.12                     |                           |                           |              |  |  |
| 15                                 | 64QAM  | 75         | 0       | 21.29     | 21.16                     | 21.10                     |                           |                           |              |  |  |
| 15                                 | 256QAM | 1          | 0       | 18.86     | 18.91                     | 18.94                     |                           |                           |              |  |  |
| 15                                 | 256QAM | 1          | 37      | 18.58     | 18.94                     | 18.94                     |                           | 20.5                      | 5            |  |  |
| 15                                 | 256QAM | 1          | 74      | 19.02     | 18.88                     | 18.85                     |                           |                           |              |  |  |
| 15                                 | 256QAM | 36         | 0       | 18.13     | 18.92                     | 18.89                     |                           |                           |              |  |  |
| 15                                 | 256QAM | 36         | 20      | 18.18     | 18.05                     | 18.02                     |                           | 20.5                      | 5            |  |  |
| 15                                 | 256QAM | 36         | 39      | 18.19     | 18.01                     | 18.04                     |                           |                           |              |  |  |
| 15                                 | 256QAM | 75         | 0       | 18.18     | 18.00                     | 18.14                     |                           |                           |              |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
| Frequency (MHz)                    |        |            |         |           | 13092                     | 13029                     | 13067                     | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| 10                                 | QPSK   | 1          | 0       | 24.67     | 24.06                     | 24.41                     |                           |                           |              |  |  |
| 10                                 | QPSK   | 1          | 25      | 24.02     | 24.01                     | 24.07                     |                           | 25.5                      | 0            |  |  |
| 10                                 | QPSK   | 1          | 49      | 23.72     | 24.01                     | 23.91                     |                           |                           |              |  |  |
| 10                                 | QPSK   | 25         | 0       | 23.06     | 23.08                     | 23.07                     |                           |                           |              |  |  |
| 10                                 | QPSK   | 25         | 12      | 23.22     | 23.18                     | 23.09                     |                           | 24.5                      | 1            |  |  |
| 10                                 | QPSK   | 25         | 25      | 23.22     | 23.15                     | 23.13                     |                           |                           |              |  |  |
| 10                                 | QPSK   | 50         | 0       | 23.09     | 23.17                     | 23.08                     |                           |                           |              |  |  |
| 10                                 | 16QAM  | 1          | 0       | 23.05     | 23.47                     | 23.40                     |                           |                           |              |  |  |
| 10                                 | 16QAM  | 1          | 25      | 23.53     | 23.41                     | 23.38                     |                           | 24.5                      | 1            |  |  |
| 10                                 | 16QAM  | 1          | 49      | 23.46     | 23.38                     | 23.34                     |                           |                           |              |  |  |
| 10                                 | 16QAM  | 25         | 0       | 22.31     | 22.11                     | 22.09                     |                           |                           |              |  |  |
| 10                                 | 16QAM  | 25         | 12      | 22.33     | 22.22                     | 22.09                     |                           | 23.5                      | 2            |  |  |
| 10                                 | 16QAM  | 50         | 24      | 22.35     | 22.14                     | 22.11                     |                           |                           |              |  |  |
| 10                                 | 64QAM  | 1          | 0       | 22.32     | 22.19                     | 22.07                     |                           |                           |              |  |  |
| 10                                 | 64QAM  | 1          | 24      | 22.54     | 22.40                     | 22.45                     |                           | 23.5                      | 2            |  |  |
| 10                                 | 64QAM  | 1          | 49      | 22.52     | 22.45                     | 22.39                     |                           |                           |              |  |  |
| 10                                 | 64QAM  | 25         | 0       | 21.34     | 21.14                     | 21.12                     |                           |                           |              |  |  |
| 10                                 | 64QAM  | 25         | 12      | 21.35     | 21.24                     | 21.13                     |                           | 22.5                      | 3            |  |  |
| 10                                 | 64QAM  | 25         | 25      | 21.24     | 21.14                     | 21.15                     |                           |                           |              |  |  |
| 10                                 | 64QAM  | 50         | 0       | 21.28     | 21.14                     | 21.10                     |                           |                           |              |  |  |
| 10                                 | 256QAM | 1          | 0       | 18.59     | 18.97                     | 18.91                     |                           |                           |              |  |  |
| 10                                 | 256QAM | 1          | 25      | 18.88     | 18.90                     | 18.94                     |                           | 20.5                      | 5            |  |  |
| 10                                 | 256QAM | 1          | 49      | 18.97     | 18.86                     | 18.75                     |                           |                           |              |  |  |
| 10                                 | 256QAM | 25         | 0       | 18.97     | 18.92                     | 18.85                     |                           |                           |              |  |  |
| 10                                 | 256QAM | 25         | 12      | 19.17     | 19.02                     | 19.03                     |                           | 20.5                      | 5            |  |  |
| 10                                 | 256QAM | 25         | 25      | 19.14     | 18.96                     | 19.06                     |                           |                           |              |  |  |
| 10                                 | 256QAM | 50         | 0       | 18.95     | 19.11                     | 18.95                     |                           |                           |              |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
| Frequency (MHz)                    |        |            |         |           | 13197                     | 13029                     | 13067                     | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| 5                                  | QPSK   | 1          | 0       | 24.65     | 24.11                     | 24.42                     |                           |                           |              |  |  |
| 5                                  | QPSK   | 1          | 12      | 24.21     | 24.13                     | 24.05                     |                           | 25.5                      | 0            |  |  |
| 5                                  | QPSK   | 1          | 24      | 24.19     | 24.05                     | 23.97                     |                           |                           |              |  |  |
| 5                                  | QPSK   | 12         | 0       | 23.97     | 23.18                     | 23.16                     |                           |                           |              |  |  |
| 5                                  | QPSK   | 12         | 7       | 23.30     | 23.25                     | 23.14                     |                           | 24.5                      | 1            |  |  |
| 5                                  | QPSK   | 12         | 13      | 23.28     | 23.20                     | 23.19                     |                           |                           |              |  |  |
| 5                                  | QPSK   | 25         | 0       | 23.13     | 23.21                     | 23.14                     |                           |                           |              |  |  |
| 5                                  | 16QAM  | 1          | 0       | 23.20     | 23.44                     | 23.40                     |                           |                           |              |  |  |
| 5                                  | 16QAM  | 1          | 12      | 23.45     | 23.45                     | 23.33                     |                           | 24.5                      | 1            |  |  |
| 5                                  | 16QAM  | 1          | 24      | 23.44     | 23.42                     | 23.30                     |                           |                           |              |  |  |
| 5                                  | 16QAM  | 12         | 0       | 22.33     | 22.27                     | 22.18                     |                           |                           |              |  |  |
| 5                                  | 16QAM  | 12         | 7       | 22.37     | 22.24                     | 22.16                     |                           | 23.5                      | 2            |  |  |
| 5                                  | 16QAM  | 12         | 13      | 22.31     | 22.17                     | 22.14                     |                           |                           |              |  |  |
| 5                                  | 16QAM  | 25         | 0       | 22.36     | 22.21                     | 22.17                     |                           |                           |              |  |  |
| 5                                  | 64QAM  | 1          | 0       | 22.23     | 22.41                     | 22.30                     |                           | 23.5                      | 2            |  |  |
| 5                                  | 64QAM  | 1          | 12      | 22.48     | 22.38                     | 22.28                     |                           |                           |              |  |  |
| 5                                  | 64QAM  | 1          | 24      | 22.39     | 22.33                     | 22.26                     |                           |                           |              |  |  |
| 5                                  | 64QAM  | 12         | 0       | 21.29     | 21.25                     | 21.17                     |                           |                           |              |  |  |
| 5                                  | 64QAM  | 12         | 7       | 21.36     | 21.23                     | 21.15                     |                           | 22.5                      | 3            |  |  |
| 5                                  | 64QAM  | 12         | 13      | 21.30     | 21.17                     | 21.08                     |                           |                           |              |  |  |
| 5                                  | 64QAM  | 25         | 0       | 21.27     | 21.22                     | 21.14                     |                           |                           |              |  |  |
| 5                                  | 256QAM | 1          | 0       | 18.91     | 18.93                     | 18.99                     |                           |                           |              |  |  |
| 5                                  | 256QAM | 1          | 12      | 19.11     | 19.08                     | 18.95                     |                           | 20.5                      | 5            |  |  |
| 5                                  | 256QAM | 1          | 24      | 19.10     | 18.96                     | 18.77                     |                           |                           |              |  |  |
| 5                                  | 256QAM | 12         | 0       | 19.20     | 19.11                     | 19.03                     |                           |                           |              |  |  |
| 5                                  | 256QAM | 12         | 7       | 19.19     | 19.13                     | 19.08                     |                           | 20.5                      | 5            |  |  |
| 5                                  | 256QAM | 12         | 13      | 19.16     | 19.01                     | 19.01                     |                           |                           |              |  |  |
| 5                                  | 256QAM | 25         | 0       | 19.03     | 19.05                     | 19.06                     |                           |                           |              |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
| Frequency (MHz)                    |        |            |         |           | 13197                     | 13029                     | 13067                     | Turn-up<br>limit<br>(dBm) | APR3<br>(dB) |  |  |
| 3                                  | QPSK   | 1          | 0       | 24.11     | 24.08                     | 24.15                     |                           |                           |              |  |  |
| 3                                  | QPSK   | 1          | 8       | 24.25     | 24.13                     | 24.01                     |                           | 25.5                      | 0            |  |  |
| 3                                  | QPSK   | 1          | 14      | 24.30     | 24.07                     | 24.01                     |                           |                           |              |  |  |
| 3                                  | QPSK   | 8          | 0       | 23.29     | 23.22                     | 23.08                     |                           |                           |              |  |  |
| 3                                  | QPSK   | 8          | 4       | 23.29     | 23.22                     | 23.16                     |                           | 24.5                      | 1            |  |  |
| 3                                  | QPSK   | 8          | 7       | 23.26     | 23.13                     | 23.15                     |                           |                           |              |  |  |
| 3                                  | QPSK   | 15         | 0       | 23.23     | 23.19                     | 23.17                     |                           |                           |              |  |  |
| 3                                  | 16QAM  | 1          | 0       | 23.37     | 23.41                     | 23.47                     |                           |                           |              |  |  |
| 3                                  | 16QAM  | 1          | 8       | 23.52     | 23.47                     | 23.41                     |                           | 24.5                      | 1            |  |  |
| 3                                  | 16QAM  | 1          | 14      | 23.52     | 23.40                     | 23.36                     |                           |                           |              |  |  |
| 3                                  | 16QAM  | 8          | 0       | 22.36     | 22.21                     | 22.11                     |                           |                           |              |  |  |
| 3                                  | 16QAM  | 8          | 4       | 22.37     | 22.25                     | 22.22                     |                           | 23.5                      | 2            |  |  |
| 3                                  | 16QAM  | 8          | 7       | 22.31     | 22.24                     | 22.14                     |                           |                           |              |  |  |
| 3                                  | 16QAM  | 15         | 0       | 22.33     | 22.18                     | 22.19                     |                           |                           |              |  |  |
| 3                                  | 64QAM  | 1          | 0       | 22.33     | 22.37                     | 22.31                     |                           | 23.5                      | 2            |  |  |
| 3                                  | 64QAM  | 1          | 8       | 22.49     | 22.43                     | 22.49                     |                           |                           |              |  |  |
| 3                                  | 64QAM  | 1          | 14      | 22.49     | 22.31                     | 22.45                     |                           |                           |              |  |  |
| 3                                  | 64QAM  | 8          | 0       | 21.31     | 21.22                     | 21.14                     |                           |                           |              |  |  |
| 3                                  | 64QAM  | 8          | 4       | 21.35     | 21.25                     | 21.24                     |                           | 22.5                      | 3            |  |  |
| 3                                  | 64QAM  | 8          | 7       | 21.31     | 21.16                     | 21.14                     |                           |                           |              |  |  |
| 3                                  | 64QAM  | 15         | 0       | 21.32     | 21.28                     | 21.17                     |                           |                           |              |  |  |
| 3                                  | 256QAM | 1          | 0       | 18.92     | 18.97                     | 19.01                     |                           |                           |              |  |  |
| 3                                  | 256QAM | 1          | 8       | 19.06     | 18.97                     | 18.87                     |                           | 20.5                      | 5            |  |  |
| 3                                  | 256QAM | 1          | 14      | 19.14     | 18.97                     | 18.82                     |                           |                           |              |  |  |
| 3                                  | 256QAM | 8          | 0       | 18.92     | 18.96                     | 18.93                     |                           |                           |              |  |  |
| 3                                  | 256QAM | 8          | 4       | 19.13     | 19.05                     | 19.04                     |                           | 20.5                      | 5            |  |  |
| 3                                  | 256QAM | 8          | 7       | 19.16     | 18.93                     | 18.96                     |                           |                           |              |  |  |
| 3                                  | 256QAM | 15         | 0       | 18.97     | 19.03                     | 18.95                     |                           |                           |              |  |  |
| Channel                            |        |            |         |           |                           |                           |                           |                           |              |  |  |
|                                    |        |            |         |           |                           |                           |                           |                           |              |  |  |



| Ant 2 Band 38 Full Power / DSI 1/4 |            |         |           |                       |                          |                        |                     |          |                     |          |
|------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|
| BW [MHz]                           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |                     |          |
| Channel                            |            |         |           | 37650                 | 38000                    | 38150                  |                     |          |                     |          |
| Frequency (MHz)                    |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |                     |          |
| 20                                 | QPSK       | 1       | 0         | 24.65                 | 24.69                    | 24.67                  | 25.5                | 0        |                     |          |
| 20                                 | QPSK       | 1       | 49        | 24.63                 | 24.58                    | 24.59                  |                     |          |                     |          |
| 20                                 | QPSK       | 50      | 0         | 23.74                 | 23.82                    | 23.78                  |                     |          |                     |          |
| 20                                 | QPSK       | 50      | 24        | 23.80                 | 23.80                    | 23.43                  | 24.5                | 1        |                     |          |
| 20                                 | QPSK       | 50      | 50        | 23.80                 | 23.77                    | 23.40                  |                     |          |                     |          |
| 20                                 | QPSK       | 100     | 0         | 23.82                 | 23.83                    | 23.44                  |                     |          |                     |          |
| 20                                 | 16QAM      | 1       | 0         | 23.76                 | 23.78                    | 23.41                  | 24.5                | 1        |                     |          |
| 20                                 | 16QAM      | 1       | 49        | 23.70                 | 23.75                    | 23.41                  |                     |          |                     |          |
| 20                                 | 16QAM      | 1       | 99        | 23.71                 | 23.71                    | 23.33                  |                     |          |                     |          |
| 20                                 | 16QAM      | 50      | 0         | 22.75                 | 22.77                    | 22.42                  | 23.5                | 2        |                     |          |
| 20                                 | 16QAM      | 50      | 24        | 22.83                 | 22.84                    | 22.50                  |                     |          |                     |          |
| 20                                 | 16QAM      | 100     | 0         | 22.83                 | 22.82                    | 22.46                  |                     |          |                     |          |
| 20                                 | 64QAM      | 1       | 0         | 22.59                 | 22.56                    | 22.19                  | 23.5                | 2        |                     |          |
| 20                                 | 64QAM      | 1       | 49        | 22.48                 | 22.50                    | 22.15                  |                     |          |                     |          |
| 20                                 | 64QAM      | 1       | 99        | 22.54                 | 22.52                    | 22.18                  |                     |          |                     |          |
| 20                                 | 64QAM      | 50      | 0         | 21.71                 | 21.69                    | 21.37                  | 22.5                | 3        |                     |          |
| 20                                 | 64QAM      | 50      | 24        | 21.77                 | 21.79                    | 21.43                  |                     |          |                     |          |
| 20                                 | 64QAM      | 50      | 50        | 21.74                 | 21.72                    | 21.39                  |                     |          |                     |          |
| 20                                 | 256QAM     | 100     | 0         | 19.13                 | 19.13                    | 19.13                  | 20.5                | 5        |                     |          |
| 20                                 | 256QAM     | 1       | 0         | 19.15                 | 19.28                    | 19.28                  |                     |          |                     |          |
| 20                                 | 256QAM     | 1       | 49        | 19.26                 | 19.19                    | 19.20                  |                     |          |                     |          |
| 20                                 | 256QAM     | 1       | 99        | 19.13                 | 19.13                    | 18.86                  | 20.5                | 5        |                     |          |
| 20                                 | 256QAM     | 50      | 0         | 19.04                 | 19.19                    | 18.77                  |                     |          |                     |          |
| 20                                 | 256QAM     | 50      | 24        | 19.18                 | 19.22                    | 18.85                  |                     |          |                     |          |
| 20                                 | 256QAM     | 50      | 50        | 19.13                 | 19.13                    | 18.73                  | 20.5                | 5        |                     |          |
| 20                                 | 256QAM     | 100     | 0         | 19.26                 | 19.17                    | 18.80                  |                     |          |                     |          |
| Channel                            |            |         |           | 37625                 | 38000                    | 38175                  |                     |          | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)                    |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |                     |          |
| 15                                 | QPSK       | 1       | 0         | 24.62                 | 24.59                    | 24.64                  | 25.5                | 0        |                     |          |
| 15                                 | QPSK       | 1       | 37        | 24.62                 | 24.57                    | 24.60                  |                     |          |                     |          |
| 15                                 | QPSK       | 1       | 74        | 24.63                 | 24.56                    | 24.62                  |                     |          |                     |          |
| 15                                 | QPSK       | 36      | 0         | 23.77                 | 23.69                    | 23.75                  | 24.5                | 1        |                     |          |
| 15                                 | QPSK       | 36      | 20        | 23.80                 | 23.79                    | 23.80                  |                     |          |                     |          |
| 15                                 | QPSK       | 36      | 39        | 23.78                 | 23.74                    | 23.78                  |                     |          |                     |          |
| 15                                 | QPSK       | 75      | 0         | 23.81                 | 23.78                    | 23.80                  | 24.5                | 1        |                     |          |
| 15                                 | 16QAM      | 1       | 0         | 23.79                 | 23.75                    | 23.81                  |                     |          |                     |          |
| 15                                 | 16QAM      | 1       | 37        | 23.61                 | 23.68                    | 23.66                  |                     |          |                     |          |
| 15                                 | 16QAM      | 1       | 74        | 23.74                 | 23.73                    | 23.78                  | 23.5                | 2        |                     |          |
| 15                                 | 16QAM      | 36      | 0         | 22.74                 | 22.68                    | 22.75                  |                     |          |                     |          |
| 15                                 | 16QAM      | 36      | 20        | 22.78                 | 22.73                    | 22.78                  |                     |          |                     |          |
| 15                                 | 16QAM      | 36      | 39        | 22.77                 | 22.72                    | 22.75                  | 23.5                | 2        |                     |          |
| 15                                 | 16QAM      | 75      | 0         | 22.85                 | 22.77                    | 22.82                  |                     |          |                     |          |
| 15                                 | 64QAM      | 1       | 0         | 22.58                 | 22.57                    | 22.57                  |                     |          |                     |          |
| 15                                 | 64QAM      | 1       | 37        | 22.60                 | 22.57                    | 22.56                  | 23.5                | 2        |                     |          |
| 15                                 | 64QAM      | 1       | 74        | 22.58                 | 22.48                    | 22.54                  |                     |          |                     |          |
| 15                                 | 64QAM      | 36      | 0         | 21.75                 | 21.74                    | 21.79                  |                     |          |                     |          |
| 15                                 | 64QAM      | 36      | 20        | 21.81                 | 21.77                    | 21.84                  | 22.5                | 3        |                     |          |
| 15                                 | 64QAM      | 36      | 39        | 21.83                 | 21.78                    | 21.82                  |                     |          |                     |          |
| 15                                 | 64QAM      | 75      | 0         | 21.79                 | 21.80                    | 21.86                  |                     |          |                     |          |
| 15                                 | 256QAM     | 1       | 0         | 19.15                 | 19.15                    | 19.21                  | 20.5                | 5        |                     |          |
| 15                                 | 256QAM     | 1       | 37        | 19.24                 | 19.14                    | 19.10                  |                     |          |                     |          |
| 15                                 | 256QAM     | 1       | 74        | 19.22                 | 19.11                    | 19.26                  |                     |          |                     |          |
| 15                                 | 256QAM     | 36      | 0         | 19.16                 | 19.06                    | 19.17                  | 20.5                | 5        |                     |          |
| 15                                 | 256QAM     | 36      | 20        | 19.14                 | 19.21                    | 19.20                  |                     |          |                     |          |
| 15                                 | 256QAM     | 36      | 39        | 19.09                 | 19.12                    | 19.13                  |                     |          |                     |          |
| 15                                 | 256QAM     | 75      | 0         | 19.12                 | 19.16                    | 19.16                  |                     |          |                     |          |
| Channel                            |            |         |           | 37600                 | 38000                    | 38200                  | Tune-up limit (dbm) | MPR (db) |                     |          |
| Frequency (MHz)                    |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |                     |          |
| 10                                 | QPSK       | 1       | 0         | 24.67                 | 24.46                    | 24.62                  | 25.5                | 0        |                     |          |
| 10                                 | QPSK       | 1       | 25        | 24.65                 | 24.32                    | 24.63                  |                     |          |                     |          |
| 10                                 | QPSK       | 1       | 49        | 24.29                 | 24.19                    | 24.65                  |                     |          |                     |          |
| 10                                 | QPSK       | 25      | 0         | 23.79                 | 23.80                    | 23.72                  | 24.5                | 1        |                     |          |
| 10                                 | QPSK       | 25      | 12        | 23.84                 | 23.81                    | 23.71                  |                     |          |                     |          |
| 10                                 | QPSK       | 25      | 25        | 23.83                 | 23.80                    | 23.80                  |                     |          |                     |          |
| 10                                 | QPSK       | 50      | 0         | 23.84                 | 23.81                    | 23.80                  | 24.5                | 1        |                     |          |
| 10                                 | 16QAM      | 1       | 0         | 23.82                 | 23.77                    | 23.81                  |                     |          |                     |          |
| 10                                 | 16QAM      | 1       | 25        | 23.78                 | 23.78                    | 23.80                  |                     |          |                     |          |
| 10                                 | 16QAM      | 1       | 49        | 23.80                 | 23.74                    | 23.75                  | 23.5                | 2        |                     |          |
| 10                                 | 16QAM      | 25      | 0         | 22.82                 | 22.78                    | 22.68                  |                     |          |                     |          |
| 10                                 | 16QAM      | 25      | 12        | 22.81                 | 22.82                    | 22.74                  |                     |          |                     |          |
| 10                                 | 16QAM      | 25      | 25        | 22.80                 | 22.80                    | 22.78                  | 23.5                | 2        |                     |          |
| 10                                 | 16QAM      | 50      | 0         | 22.85                 | 22.82                    | 22.74                  |                     |          |                     |          |
| 10                                 | 64QAM      | 1       | 0         | 22.74                 | 22.67                    | 22.64                  |                     |          |                     |          |
| 10                                 | 64QAM      | 1       | 25        | 22.65                 | 22.67                    | 22.65                  | 23.5                | 2        |                     |          |
| 10                                 | 64QAM      | 1       | 49        | 22.76                 | 22.67                    | 22.67                  |                     |          |                     |          |
| 10                                 | 64QAM      | 25      | 0         | 21.79                 | 21.78                    | 21.68                  |                     |          |                     |          |
| 10                                 | 64QAM      | 25      | 12        | 21.80                 | 21.82                    | 21.71                  | 22.5                | 3        |                     |          |
| 10                                 | 64QAM      | 25      | 25        | 21.78                 | 21.76                    | 21.74                  |                     |          |                     |          |
| 10                                 | 64QAM      | 50      | 0         | 21.78                 | 21.75                    | 21.69                  |                     |          |                     |          |
| 10                                 | 256QAM     | 1       | 0         | 19.27                 | 19.00                    | 19.13                  | 20.5                | 5        |                     |          |
| 10                                 | 256QAM     | 1       | 25        | 19.19                 | 18.85                    | 19.19                  |                     |          |                     |          |
| 10                                 | 256QAM     | 1       | 49        | 18.86                 | 18.79                    | 19.22                  |                     |          |                     |          |
| 10                                 | 256QAM     | 25      | 0         | 19.21                 | 19.15                    | 19.03                  | 20.5                | 5        |                     |          |
| 10                                 | 256QAM     | 25      | 12        | 19.28                 | 19.16                    | 19.04                  |                     |          |                     |          |
| 10                                 | 256QAM     | 25      | 25        | 19.22                 | 19.10                    | 19.25                  |                     |          |                     |          |
| 10                                 | 256QAM     | 50      | 0         | 19.18                 | 19.25                    | 19.08                  |                     |          |                     |          |
| Channel                            |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dbm) | MPR (db) |                     |          |
| Frequency (MHz)                    |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |                     |          |
| 5                                  | QPSK       | 1       | 0         | 24.63                 | 24.57                    | 24.61                  | 25.5                | 0        |                     |          |
| 5                                  | QPSK       | 1       | 12        | 24.62                 | 24.60                    | 24.64                  |                     |          |                     |          |
| 5                                  | QPSK       | 1       | 24        | 24.65                 | 24.59                    | 24.64                  |                     |          |                     |          |
| 5                                  | QPSK       | 12      | 0         | 23.82                 | 23.79                    | 23.74                  | 24.5                | 1        |                     |          |
| 5                                  | QPSK       | 12      | 7         | 23.79                 | 23.80                    | 23.78                  |                     |          |                     |          |
| 5                                  | QPSK       | 12      | 13        | 23.81                 | 23.81                    | 23.75                  |                     |          |                     |          |
| 5                                  | QPSK       | 25      | 0         | 23.81                 | 23.78                    | 23.73                  | 24.5                | 1        |                     |          |
| 5                                  | 16QAM      | 1       | 0         | 23.79                 | 23.78                    | 23.78                  |                     |          |                     |          |
| 5                                  | 16QAM      | 1       | 12        | 23.85                 | 23.83                    | 23.86                  |                     |          |                     |          |
| 5                                  | 16QAM      | 1       | 24        | 23.89                 | 23.82                    | 23.83                  | 24.5                | 1        |                     |          |
| 5                                  | 16QAM      | 12      | 0         | 22.76                 | 22.76                    | 22.73                  |                     |          |                     |          |
| 5                                  | 16QAM      | 12      | 7         | 22.83                 | 22.76                    | 22.75                  |                     |          |                     |          |
| 5                                  | 16QAM      | 12      | 13        | 22.80                 | 22.74                    | 22.75                  | 23.5                | 2        |                     |          |
| 5                                  | 16QAM      | 25      | 0         | 22.82                 | 22.81                    | 22.78                  |                     |          |                     |          |
| 5                                  | 64QAM      | 1       | 0         | 22.59                 | 22.52                    | 22.52                  |                     |          |                     |          |
| 5                                  | 64QAM      | 1       | 12        | 22.61                 | 22.55                    | 22.56                  | 23.5                | 2        |                     |          |
| 5                                  | 64QAM      | 1       | 24        | 22.56                 | 22.59                    | 22.59                  |                     |          |                     |          |
| 5                                  | 64QAM      | 12      | 0         | 21.76                 | 21.80                    | 21.73                  |                     |          |                     |          |
| 5                                  | 64QAM      | 12      | 7         | 21.83                 | 21.77                    | 21.75                  | 22.5                | 3        |                     |          |
| 5                                  | 64QAM      | 12      | 13        | 21.79                 | 21.74                    | 21.73                  |                     |          |                     |          |
| 5                                  | 64QAM      | 25      | 0         | 21.75                 | 21.75                    | 21.70                  | 20.5                | 5        |                     |          |
| 5                                  | 256QAM     | 1       | 0         | 19.14                 | 19.08                    | 19.24                  |                     |          |                     |          |
| 5                                  | 256QAM     | 1       | 12        | 19.18                 | 19.24                    | 19.29                  |                     |          |                     |          |
| 5                                  | 256QAM     | 1       | 24        | 19.27                 | 19.23                    | 19.29                  | 20.5                | 5        |                     |          |
| 5                                  | 256QAM     | 12      | 0         | 19.26                 | 19.11                    | 19.16                  |                     |          |                     |          |
| 5                                  | 256QAM     | 12      | 7         | 19.21                 | 19.18                    | 19.14                  |                     |          |                     |          |
| 5                                  | 256QAM     | 12      | 13        | 19.14                 | 19.23                    | 19.17                  |                     |          |                     |          |
| 5                                  | 256QAM     | 25      | 0         | 19.11                 | 19.21                    | 19.17                  |                     |          |                     |          |

|                 |                    | Ant2 Down power DSI 3/5 |       |        |                     | Ant2 Down power DSI 3/5 |        |        |        |                     |
|-----------------|--------------------|-------------------------|-------|--------|---------------------|-------------------------|--------|--------|--------|---------------------|
| Band            |                    | WCDMA II                |       |        | WCDMA IV            |                         |        |        |        |                     |
| TX Channel      |                    | 9262                    | 9400  | 9538   | Tune-up Limit (dBm) |                         | 1312   | 1413   | 1513   | Tune-up Limit (dBm) |
| Rx Channel      |                    | 9562                    | 9600  | 9638   |                     |                         | 1537   | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1552.2                  | 1569  | 1587.4 |                     |                         | 1722.4 | 1722.8 | 1723.2 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 19.96                   | 20.13 | 20.12  | 21.00               | 20.53                   | 20.96  | 20.88  | 20.88  | 22.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 19.97                   | 20.14 | 20.09  | 21.00               | 20.84                   | 20.98  | 20.89  | 20.89  | 22.00               |
| 3GPP Rel 6      | HSOPA Subtest-1    | 18.81                   | 19.08 | 19.18  | 20.00               | 19.63                   | 19.67  | 19.90  | 19.90  | 21.00               |
| 3GPP Rel 6      | HSOPA Subtest-2    | 18.76                   | 19.26 | 19.29  | 20.00               | 19.75                   | 19.97  | 20.02  | 20.02  | 21.00               |
| 3GPP Rel 6      | HSOPA Subtest-3    | 18.61                   | 18.77 | 18.64  | 19.50               | 19.21                   | 19.51  | 19.37  | 19.37  | 20.50               |
| 3GPP Rel 6      | HSOPA Subtest-4    | 18.75                   | 18.76 | 18.73  | 19.50               | 19.34                   | 19.46  | 19.46  | 19.46  | 20.50               |
| 3GPP Rel 8      | DC-HSOPA Subtest-1 | 18.78                   | 18.99 | 19.23  | 20.00               | 19.79                   | 20.00  | 19.82  | 19.82  | 21.00               |
| 3GPP Rel 8      | DC-HSOPA Subtest-2 | 18.67                   | 19.10 | 19.03  | 20.00               | 19.66                   | 19.90  | 19.87  | 19.87  | 21.00               |
| 3GPP Rel 8      | DC-HSOPA Subtest-3 | 18.78                   | 18.68 | 18.65  | 19.50               | 19.11                   | 19.26  | 19.35  | 19.35  | 20.50               |
| 3GPP Rel 8      | DC-HSOPA Subtest-4 | 18.49                   | 18.64 | 18.76  | 19.50               | 19.41                   | 19.48  | 19.35  | 19.35  | 20.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 18.99                   | 19.01 | 19.17  | 20.00               | 19.69                   | 19.85  | 19.76  | 19.76  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 17.34                   | 17.02 | 17.21  | 18.00               | 17.93                   | 17.89  | 17.81  | 17.81  | 19.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 17.02                   | 18.11 | 18.08  | 19.00               | 18.84                   | 18.98  | 18.77  | 18.77  | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 17.25                   | 17.17 | 17.13  | 18.00               | 17.82                   | 17.96  | 17.89  | 17.89  | 19.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 19.05                   | 19.24 | 19.22  | 20.00               | 19.66                   | 19.98  | 19.79  | 19.79  | 21.00               |



| Ant2 Band 2 Down power / DSI 3 |            |         |           |                       |                          |                        |                     |          |  |  |  |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |
| Channel Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 20                             | QPSK       | 1       | 0         | 22.25                 | 22.43                    | 22.14                  | 23.5                | 0        |  |  |  |
| 20                             | QPSK       | 1       | 49        | 22.17                 | 22.02                    | 22.15                  |                     |          |  |  |  |
| 20                             | QPSK       | 1       | 99        | 22.12                 | 22.11                    | 22.27                  |                     |          |  |  |  |
| 20                             | QPSK       | 50      | 0         | 22.35                 | 22.39                    | 22.25                  | 23.5                | 0        |  |  |  |
| 20                             | QPSK       | 50      | 24        | 22.34                 | 22.38                    | 22.32                  |                     |          |  |  |  |
| 20                             | QPSK       | 50      | 50        | 22.34                 | 22.38                    | 22.32                  |                     |          |  |  |  |
| 20                             | QPSK       | 100     | 0         | 22.28                 | 22.28                    | 22.30                  | 23.5                | 0        |  |  |  |
| 20                             | 16QAM      | 1       | 0         | 22.40                 | 22.38                    | 22.37                  |                     |          |  |  |  |
| 20                             | 16QAM      | 1       | 49        | 22.24                 | 22.20                    | 22.21                  |                     |          |  |  |  |
| 20                             | 16QAM      | 1       | 99        | 22.26                 | 22.24                    | 22.27                  | 23.5                | 0        |  |  |  |
| 20                             | 16QAM      | 50      | 0         | 22.35                 | 22.25                    | 22.26                  |                     |          |  |  |  |
| 20                             | 16QAM      | 50      | 24        | 22.32                 | 22.34                    | 22.40                  |                     |          |  |  |  |
| 20                             | 16QAM      | 50      | 50        | 22.34                 | 22.29                    | 22.33                  | 23.5                | 0        |  |  |  |
| 20                             | 16QAM      | 100     | 0         | 22.40                 | 22.26                    | 22.30                  |                     |          |  |  |  |
| 20                             | 64QAM      | 1       | 0         | 22.24                 | 22.21                    | 22.15                  |                     |          |  |  |  |
| 20                             | 64QAM      | 1       | 49        | 22.23                 | 22.15                    | 22.13                  | 23.5                | 0        |  |  |  |
| 20                             | 64QAM      | 1       | 99        | 22.10                 | 22.18                    | 22.32                  |                     |          |  |  |  |
| 20                             | 64QAM      | 50      | 0         | 21.40                 | 21.27                    | 21.28                  |                     |          |  |  |  |
| 20                             | 64QAM      | 50      | 24        | 21.35                 | 21.24                    | 21.27                  | 22.5                | 1        |  |  |  |
| 20                             | 64QAM      | 50      | 50        | 21.31                 | 21.28                    | 21.28                  |                     |          |  |  |  |
| 20                             | 64QAM      | 100     | 0         | 21.12                 | 21.36                    | 21.12                  |                     |          |  |  |  |
| 20                             | 256QAM     | 1       | 0         | 19.18                 | 19.25                    | 19.10                  | 20.5                | 3        |  |  |  |
| 20                             | 256QAM     | 1       | 49        | 19.05                 | 18.86                    | 19.14                  |                     |          |  |  |  |
| 20                             | 256QAM     | 1       | 99        | 19.10                 | 19.05                    | 19.04                  |                     |          |  |  |  |
| 20                             | 256QAM     | 50      | 0         | 19.21                 | 19.33                    | 19.08                  | 20.5                | 3        |  |  |  |
| 20                             | 256QAM     | 50      | 24        | 19.21                 | 19.15                    | 19.17                  |                     |          |  |  |  |
| 20                             | 256QAM     | 50      | 50        | 19.31                 | 19.18                    | 19.22                  |                     |          |  |  |  |
| 20                             | 256QAM     | 100     | 0         | 19.25                 | 19.19                    | 19.18                  | 20.5                | 3        |  |  |  |
| Channel Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 15                             | QPSK       | 1       | 0         | 22.16                 | 22.23                    | 22.12                  | 23.5                | 0        |  |  |  |
| 15                             | QPSK       | 1       | 37        | 22.10                 | 22.15                    | 22.13                  |                     |          |  |  |  |
| 15                             | QPSK       | 1       | 74        | 22.19                 | 22.11                    | 22.15                  |                     |          |  |  |  |
| 15                             | QPSK       | 36      | 0         | 22.30                 | 22.25                    | 22.15                  | 23.5                | 0        |  |  |  |
| 15                             | QPSK       | 36      | 20        | 22.30                 | 22.22                    | 22.32                  |                     |          |  |  |  |
| 15                             | QPSK       | 36      | 39        | 22.31                 | 22.23                    | 22.29                  |                     |          |  |  |  |
| 15                             | QPSK       | 75      | 0         | 22.32                 | 22.25                    | 22.22                  | 23.5                | 0        |  |  |  |
| 15                             | 16QAM      | 1       | 0         | 22.31                 | 22.21                    | 22.08                  |                     |          |  |  |  |
| 15                             | 16QAM      | 1       | 37        | 22.21                 | 22.25                    | 22.18                  |                     |          |  |  |  |
| 15                             | 16QAM      | 1       | 74        | 22.14                 | 22.24                    | 22.21                  | 23.5                | 0        |  |  |  |
| 15                             | 16QAM      | 36      | 0         | 22.34                 | 22.30                    | 22.07                  |                     |          |  |  |  |
| 15                             | 16QAM      | 36      | 20        | 22.27                 | 22.23                    | 22.24                  |                     |          |  |  |  |
| 15                             | 16QAM      | 36      | 39        | 22.21                 | 22.31                    | 22.24                  | 23.5                | 0        |  |  |  |
| 15                             | 16QAM      | 75      | 0         | 22.37                 | 22.21                    | 22.25                  |                     |          |  |  |  |
| 15                             | 64QAM      | 1       | 0         | 22.29                 | 22.12                    | 22.22                  |                     |          |  |  |  |
| 15                             | 64QAM      | 1       | 37        | 22.24                 | 22.14                    | 22.05                  | 23.5                | 0        |  |  |  |
| 15                             | 64QAM      | 1       | 74        | 22.11                 | 22.07                    | 22.11                  |                     |          |  |  |  |
| 15                             | 64QAM      | 36      | 0         | 21.34                 | 21.18                    | 21.12                  |                     |          |  |  |  |
| 15                             | 64QAM      | 36      | 20        | 21.28                 | 21.18                    | 21.28                  | 22.5                | 1        |  |  |  |
| 15                             | 64QAM      | 36      | 39        | 21.28                 | 21.17                    | 21.24                  |                     |          |  |  |  |
| 15                             | 64QAM      | 75      | 0         | 21.27                 | 21.29                    | 21.25                  |                     |          |  |  |  |
| 15                             | 256QAM     | 1       | 0         | 19.19                 | 19.16                    | 19.00                  | 20.5                | 3        |  |  |  |
| 15                             | 256QAM     | 1       | 37        | 19.00                 | 18.86                    | 18.94                  |                     |          |  |  |  |
| 15                             | 256QAM     | 1       | 74        | 19.01                 | 18.86                    | 18.93                  |                     |          |  |  |  |
| 15                             | 256QAM     | 36      | 0         | 19.23                 | 19.09                    | 18.97                  | 20.5                | 3        |  |  |  |
| 15                             | 256QAM     | 36      | 20        | 19.12                 | 19.18                    | 19.11                  |                     |          |  |  |  |
| 15                             | 256QAM     | 36      | 39        | 19.22                 | 19.16                    | 19.13                  |                     |          |  |  |  |
| 15                             | 256QAM     | 75      | 0         | 19.22                 | 19.11                    | 19.10                  | 20.5                | 3        |  |  |  |
| Channel Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10                             | QPSK       | 1       | 0         | 21.92                 | 22.04                    | 22.12                  | 23.5                | 0        |  |  |  |
| 10                             | QPSK       | 1       | 25        | 22.00                 | 22.10                    | 22.15                  |                     |          |  |  |  |
| 10                             | QPSK       | 1       | 49        | 22.08                 | 22.12                    | 22.10                  |                     |          |  |  |  |
| 10                             | QPSK       | 25      | 0         | 22.24                 | 22.15                    | 22.10                  | 23.5                | 0        |  |  |  |
| 10                             | QPSK       | 25      | 12        | 22.33                 | 22.22                    | 22.25                  |                     |          |  |  |  |
| 10                             | QPSK       | 25      | 25        | 22.19                 | 22.18                    | 22.23                  |                     |          |  |  |  |
| 10                             | QPSK       | 50      | 0         | 22.28                 | 22.22                    | 22.28                  | 23.5                | 0        |  |  |  |
| 10                             | 16QAM      | 1       | 0         | 21.93                 | 22.19                    | 22.32                  |                     |          |  |  |  |
| 10                             | 16QAM      | 1       | 25        | 22.23                 | 22.20                    | 22.24                  |                     |          |  |  |  |
| 10                             | 16QAM      | 1       | 49        | 22.22                 | 22.21                    | 22.17                  | 23.5                | 0        |  |  |  |
| 10                             | 16QAM      | 25      | 0         | 22.15                 | 22.11                    | 22.11                  |                     |          |  |  |  |
| 10                             | 16QAM      | 25      | 12        | 22.19                 | 22.17                    | 22.23                  |                     |          |  |  |  |
| 10                             | 16QAM      | 25      | 25        | 22.14                 | 22.15                    | 22.33                  | 23.5                | 0        |  |  |  |
| 10                             | 16QAM      | 50      | 0         | 22.31                 | 22.26                    | 22.22                  |                     |          |  |  |  |
| 10                             | 16QAM      | 50      | 0         | 21.92                 | 22.20                    | 22.25                  |                     |          |  |  |  |
| 10                             | 64QAM      | 1       | 0         | 22.29                 | 22.39                    | 22.30                  | 23.5                | 0        |  |  |  |
| 10                             | 64QAM      | 1       | 49        | 22.20                 | 22.31                    | 22.21                  |                     |          |  |  |  |
| 10                             | 64QAM      | 25      | 0         | 21.22                 | 21.16                    | 21.15                  |                     |          |  |  |  |
| 10                             | 64QAM      | 25      | 12        | 21.34                 | 21.21                    | 21.23                  | 22.5                | 1        |  |  |  |
| 10                             | 64QAM      | 25      | 25        | 21.16                 | 21.17                    | 21.23                  |                     |          |  |  |  |
| 10                             | 64QAM      | 50      | 0         | 20.91                 | 21.23                    | 21.31                  |                     |          |  |  |  |
| 10                             | 256QAM     | 1       | 0         | 18.81                 | 18.86                    | 18.92                  | 20.5                | 3        |  |  |  |
| 10                             | 256QAM     | 1       | 25        | 18.87                 | 19.08                    | 18.89                  |                     |          |  |  |  |
| 10                             | 256QAM     | 1       | 49        | 18.93                 | 19.01                    | 19.05                  |                     |          |  |  |  |
| 10                             | 256QAM     | 25      | 0         | 19.11                 | 19.08                    | 19.01                  | 20.5                | 3        |  |  |  |
| 10                             | 256QAM     | 25      | 12        | 19.04                 | 19.02                    | 19.07                  |                     |          |  |  |  |
| 10                             | 256QAM     | 25      | 25        | 19.05                 | 19.14                    | 19.08                  |                     |          |  |  |  |
| 10                             | 256QAM     | 50      | 0         | 19.10                 | 19.14                    | 19.08                  | 20.5                | 3        |  |  |  |
| Channel Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 5                              | QPSK       | 1       | 0         | 22.04                 | 22.02                    | 22.02                  | 23.5                | 0        |  |  |  |
| 5                              | QPSK       | 1       | 12        | 22.09                 | 22.16                    | 22.20                  |                     |          |  |  |  |
| 5                              | QPSK       | 1       | 24        | 22.06                 | 22.15                    | 22.28                  |                     |          |  |  |  |
| 5                              | QPSK       | 12      | 0         | 22.28                 | 22.18                    | 22.15                  | 23.5                | 0        |  |  |  |
| 5                              | QPSK       | 12      | 7         | 22.32                 | 22.15                    | 22.30                  |                     |          |  |  |  |
| 5                              | QPSK       | 12      | 13        | 22.31                 | 22.21                    | 22.32                  |                     |          |  |  |  |
| 5                              | QPSK       | 25      | 0         | 22.13                 | 22.26                    | 22.30                  | 23.5                | 0        |  |  |  |
| 5                              | 16QAM      | 1       | 0         | 22.06                 | 22.15                    | 22.16                  |                     |          |  |  |  |
| 5                              | 16QAM      | 1       | 12        | 22.22                 | 22.15                    | 22.17                  |                     |          |  |  |  |
| 5                              | 16QAM      | 1       | 24        | 22.22                 | 22.25                    | 22.30                  | 23.5                | 0        |  |  |  |
| 5                              | 16QAM      | 12      | 0         | 22.28                 | 22.10                    | 22.18                  |                     |          |  |  |  |
| 5                              | 16QAM      | 12      | 7         | 22.30                 | 22.29                    | 22.29                  |                     |          |  |  |  |
| 5                              | 16QAM      | 12      | 13        | 22.37                 | 22.27                    | 22.33                  | 23.5                | 0        |  |  |  |
| 5                              | 16QAM      | 25      | 0         | 22.26                 | 22.20                    | 22.25                  |                     |          |  |  |  |
| 5                              | 16QAM      | 1       | 0         | 21.97                 | 22.09                    | 22.09                  |                     |          |  |  |  |
| 5                              | 64QAM      | 1       | 12        | 22.09                 | 22.06                    | 22.12                  | 22.5                | 1        |  |  |  |
| 5                              | 64QAM      | 1       | 24        | 22.11                 | 22.14                    | 22.27                  |                     |          |  |  |  |
| 5                              | 64QAM      | 12      | 0         | 21.25                 | 21.08                    | 21.16                  |                     |          |  |  |  |
| 5                              | 64QAM      | 12      | 7         | 21.26                 | 21.21                    | 21.26                  | 22.5                | 1        |  |  |  |
| 5                              | 64QAM      | 12      | 13        | 22.37                 | 22.21                    | 22.27                  |                     |          |  |  |  |
| 5                              | 64QAM      | 25      | 0         | 21.30                 | 21.15                    | 21.19                  |                     |          |  |  |  |
| 5                              | 256QAM     | 1       | 0         | 18.90                 | 18.86                    | 18.89                  | 20.5                | 3        |  |  |  |
| 5                              | 256QAM     | 1       | 12        | 19.01                 | 18.87                    | 19.08                  |                     |          |  |  |  |
| 5                              | 256QAM     | 1       | 24        | 18.92                 | 19.12                    | 19.01                  |                     |          |  |  |  |
| 5                              | 256QAM     | 12      | 0         | 19.07                 | 18.99                    | 19.10                  | 20.5                | 3        |  |  |  |
| 5                              | 256QAM     | 12      | 7         | 19.10                 | 19.06                    | 19.15                  |                     |          |  |  |  |
| 5                              | 256QAM     | 12      | 13        | 19.04                 | 19.06                    | 19.19                  |                     |          |  |  |  |
| 5                              | 256QAM     | 25      | 0         | 19.13                 | 19.18                    | 19.10                  | 20.5                | 3        |  |  |  |
| Channel Frequency (MHz)        |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 3                              | QPSK       | 1       | 0         | 21.96                 | 22.10                    | 21.99                  | 23.5                | 0        |  |  |  |
| 3                              | QPSK       | 1       | 8         | 22.17                 | 22.08                    | 22.18                  |                     |          |  |  |  |
| 3                              | QPSK       | 1       | 14        | 22.08                 | 22.14                    | 22.16                  |                     |          |  |  |  |
| 3                              | QPSK       | 8       | 0         | 22.01                 | 22.23                    | 22.09                  | 23.5                | 0        |  |  |  |
| 3                              | QPSK       | 8       | 4         | 22.26                 | 22.22                    | 22.32                  |                     |          |  |  |  |
| 3                              | QPSK       | 8       | 7         | 22.23                 | 22.23                    | 22.19                  |                     |          |  |  |  |
| 3                              | QPSK       | 15      | 0         | 21.14                 | 22.12                    | 22.21                  | 22.5                | 1        |  |  |  |
| 3                              | 16QAM      | 1       | 0         | 22.12                 | 22.12                    | 22.12                  |                     |          |  |  |  |
| 3                              | 16QAM      | 1       | 8         | 22.14                 | 22.16                    | 22.33                  |                     |          |  |  |  |
| 3                              | 16QAM      | 1       | 14        | 22.14                 | 22.22                    | 22.16                  | 23.5                | 0        |  |  |  |
| 3                              | 16QAM      | 8       | 0         | 22.40                 | 22.25                    | 22.20                  |                     |          |  |  |  |
| 3                              | 16QAM      | 8       | 2         | 22.42                 | 22.22                    | 22.28                  |                     |          |  |  |  |
| 3                              | 16QAM      | 8       | 7         | 22.38                 | 22.23                    | 22.23                  | 23.5                | 0        |  |  |  |
| 3                              | 16QAM      | 15      | 0         | 22.25                 | 22.18                    | 22.27                  |                     |          |  |  |  |
| 3                              | 64QAM      | 1       | 0         | 22.03                 | 22.03                    | 21.99                  |                     |          |  |  |  |
| 3                              | 64QAM      | 1       | 8         | 22.17                 | 22.12                    | 22.18                  | 23.5                | 0        |  |  |  |
| 3                              | 64QAM      | 1       | 14        | 22.16                 | 22.08                    | 22.17                  |                     |          |  |  |  |
| 3                              | 64QAM      | 8       | 0         | 21.37                 | 22.17                    | 21.09                  |                     |          |  |  |  |
| 3                              | 64QAM      | 8       | 4         | 21.35                 | 21.18                    | 21.22                  | 22.5                | 1        |  |  |  |
| 3                              | 64QAM      | 8       | 7         | 21.25                 | 21.20                    | 21.29                  |                     |          |  |  |  |
| 3                              | 64QAM      | 15      | 0         | 21.30                 | 21.10                    | 21.24                  |                     |          |  |  |  |
| 3                              | 256QAM     | 1       | 0         | 18.86                 | 18.97                    | 18.93                  | 20.5                | 3        |  |  |  |
| 3                              | 256QAM     | 1       | 8         | 19.00                 | 19.00                    | 19.04                  |                     |          |  |  |  |
| 3                              | 256QAM     | 1       | 14        | 18.96                 | 18.96                    | 19.11                  |                     |          |  |  |  |
| 3                              | 256QAM     | 8       | 0         | 19.15                 | 19.05                    | 19.13                  | 20.5                | 3        |  |  |  |
| 3                              | 256QAM     | 8       | 4         | 19.13                 | 19.09                    | 19.13                  |                     |          |  |  |  |



|                 |        |    |   |        |       |        |      |   |
|-----------------|--------|----|---|--------|-------|--------|------|---|
| 3               | 256QAM | 8  | 7 | 19.01  | 19.02 | 19.15  | 20.5 | 3 |
| 3               | 256QAM | 15 | 0 | 19.06  | 18.97 | 19.04  |      |   |
| Channel         |        |    |   | 1899.7 | 1900  | 1919.3 |      |   |
| Frequency (MHz) |        |    |   | 1899.7 | 1899  | 1900.3 |      |   |
| 1.4             | QPSK   | 1  | 0 | 22.06  | 21.89 | 21.97  | 23.5 | 0 |
| 1.4             | QPSK   | 1  | 3 | 22.13  | 22.12 | 22.17  |      |   |
| 1.4             | QPSK   | 1  | 5 | 22.00  | 22.05 | 22.04  |      |   |
| 1.4             | QPSK   | 3  | 0 | 22.14  | 22.09 | 22.06  |      |   |
| 1.4             | QPSK   | 3  | 1 | 21.98  | 22.14 | 22.04  | 23.5 | 0 |
| 1.4             | QPSK   | 3  | 3 | 22.01  | 22.08 | 22.17  |      |   |
| 1.4             | QPSK   | 6  | 0 | 22.22  | 22.15 | 22.21  |      |   |
| 1.4             | 16QAM  | 1  | 0 | 22.04  | 22.06 | 22.17  |      |   |
| 1.4             | 16QAM  | 1  | 3 | 22.23  | 22.17 | 22.25  | 23.5 | 0 |
| 1.4             | 16QAM  | 1  | 5 | 22.17  | 22.06 | 22.24  |      |   |
| 1.4             | 16QAM  | 3  | 0 | 22.21  | 22.13 | 22.14  |      |   |
| 1.4             | 16QAM  | 3  | 1 | 22.26  | 22.23 | 22.21  |      |   |
| 1.4             | 16QAM  | 3  | 3 | 22.24  | 22.11 | 22.16  | 23.5 | 0 |
| 1.4             | 16QAM  | 6  | 0 | 22.30  | 22.12 | 22.23  |      |   |
| 1.4             | 64QAM  | 1  | 0 | 22.01  | 21.98 | 22.10  |      |   |
| 1.4             | 64QAM  | 1  | 3 | 22.17  | 21.98 | 22.15  |      |   |
| 1.4             | 64QAM  | 1  | 5 | 22.14  | 21.99 | 22.10  | 23.5 | 0 |
| 1.4             | 64QAM  | 3  | 0 | 22.21  | 22.14 | 22.23  |      |   |
| 1.4             | 64QAM  | 3  | 1 | 22.25  | 22.20 | 22.26  |      |   |
| 1.4             | 64QAM  | 3  | 3 | 22.22  | 22.16 | 22.16  |      |   |
| 1.4             | 64QAM  | 6  | 0 | 21.18  | 21.11 | 21.21  | 22.5 | 1 |
| 1.4             | 256QAM | 1  | 0 | 18.80  | 18.83 | 18.80  | 20.5 | 3 |
| 1.4             | 256QAM | 1  | 3 | 18.88  | 18.97 | 18.95  |      |   |
| 1.4             | 256QAM | 1  | 5 | 19.04  | 18.84 | 18.92  |      |   |
| 1.4             | 256QAM | 3  | 0 | 18.93  | 18.83 | 18.82  |      |   |
| 1.4             | 256QAM | 3  | 1 | 18.91  | 18.96 | 19.01  | 20.5 | 3 |
| 1.4             | 256QAM | 3  | 3 | 18.89  | 18.96 | 19.07  |      |   |
| 1.4             | 256QAM | 6  | 0 | 18.96  | 18.95 | 19.12  |      |   |

|                 |        |    |   |        |       |        |      |   |
|-----------------|--------|----|---|--------|-------|--------|------|---|
| 3               | 256QAM | 8  | 7 | 18.18  | 18.19 | 18.26  | 19.5 | 0 |
| 3               | 256QAM | 15 | 0 | 18.13  | 18.03 | 18.27  |      |   |
| Channel         |        |    |   | 1800.7 | 1800  | 1819.3 |      |   |
| Frequency (MHz) |        |    |   | 1800.7 | 1800  | 1800.3 |      |   |
| 1.4             | QPSK   | 1  | 0 | 18.28  | 18.18 | 18.14  | 19.5 | 0 |
| 1.4             | QPSK   | 1  | 3 | 18.36  | 18.08 | 18.11  |      |   |
| 1.4             | QPSK   | 1  | 5 | 18.10  | 18.21 | 18.14  |      |   |
| 1.4             | QPSK   | 3  | 0 | 19.17  | 19.25 | 19.13  |      |   |
| 1.4             | QPSK   | 3  | 1 | 19.05  | 19.22 | 19.23  | 19.5 | 0 |
| 1.4             | QPSK   | 3  | 3 | 19.07  | 19.13 | 19.16  |      |   |
| 1.4             | QPSK   | 6  | 0 | 18.23  | 18.11 | 18.38  |      |   |
| 1.4             | 16QAM  | 1  | 0 | 18.42  | 18.58 | 18.55  |      |   |
| 1.4             | 16QAM  | 1  | 3 | 18.49  | 18.52 | 18.54  | 19.5 | 0 |
| 1.4             | 16QAM  | 1  | 5 | 18.49  | 18.45 | 18.55  |      |   |
| 1.4             | 16QAM  | 3  | 0 | 19.43  | 19.31 | 19.41  |      |   |
| 1.4             | 16QAM  | 3  | 1 | 19.39  | 19.24 | 19.23  |      |   |
| 1.4             | 16QAM  | 3  | 3 | 19.40  | 19.19 | 19.15  | 19.5 | 0 |
| 1.4             | 16QAM  | 6  | 0 | 18.53  | 18.18 | 18.46  |      |   |
| 1.4             | 64QAM  | 1  | 0 | 18.32  | 18.25 | 18.53  |      |   |
| 1.4             | 64QAM  | 1  | 3 | 18.44  | 18.45 | 18.52  |      |   |
| 1.4             | 64QAM  | 1  | 5 | 18.45  | 18.30 | 18.32  | 19.5 | 0 |
| 1.4             | 64QAM  | 3  | 0 | 19.28  | 19.29 | 19.41  |      |   |
| 1.4             | 64QAM  | 3  | 1 | 19.36  | 19.30 | 19.44  |      |   |
| 1.4             | 64QAM  | 3  | 3 | 19.26  | 19.22 | 19.44  |      |   |
| 1.4             | 64QAM  | 6  | 0 | 18.26  | 18.25 | 18.15  | 18.5 | 1 |
| 1.4             | 256QAM | 1  | 0 | 18.13  | 17.91 | 17.91  | 19.5 | 0 |
| 1.4             | 256QAM | 1  | 3 | 18.10  | 18.15 | 18.09  |      |   |
| 1.4             | 256QAM | 1  | 5 | 17.99  | 17.95 | 18.10  |      |   |
| 1.4             | 256QAM | 3  | 0 | 18.11  | 17.90 | 18.11  |      |   |
| 1.4             | 256QAM | 3  | 1 | 17.90  | 18.16 | 18.11  | 19.5 | 0 |
| 1.4             | 256QAM | 3  | 3 | 18.02  | 18.07 | 18.26  |      |   |
| 1.4             | 256QAM | 6  | 0 | 18.14  | 17.95 | 18.16  |      |   |

|                 |        |    |   |        |        |        |      |   |
|-----------------|--------|----|---|--------|--------|--------|------|---|
| 3               | 256QAM | 8  | 7 | 19.23  | 19.03  | 18.92  | 20.5 | 2 |
| 3               | 256QAM | 15 | 0 | 19.19  | 19.06  | 18.89  |      |   |
| Channel         |        |    |   | 1900.7 | 1917.5 | 1938.3 |      |   |
| Frequency (MHz) |        |    |   | 1900.7 | 1922.5 | 1924.3 |      |   |
| 1.4             | QPSK   | 1  | 0 | 20.97  | 20.95  | 20.91  | 22.5 | 0 |
| 1.4             | QPSK   | 1  | 3 | 21.04  | 21.02  | 20.87  |      |   |
| 1.4             | QPSK   | 1  | 5 | 20.98  | 20.86  | 20.85  |      |   |
| 1.4             | QPSK   | 3  | 0 | 20.94  | 20.88  | 20.87  |      |   |
| 1.4             | QPSK   | 3  | 1 | 21.06  | 20.97  | 20.99  | 22.5 | 0 |
| 1.4             | QPSK   | 3  | 3 | 20.95  | 20.90  | 20.88  |      |   |
| 1.4             | QPSK   | 6  | 0 | 21.10  | 21.00  | 20.90  |      |   |
| 1.4             | 16QAM  | 1  | 0 | 21.18  | 21.20  | 21.14  |      |   |
| 1.4             | 16QAM  | 1  | 3 | 21.21  | 21.32  | 21.28  | 22.5 | 0 |
| 1.4             | 16QAM  | 1  | 5 | 21.27  | 21.34  | 21.17  |      |   |
| 1.4             | 16QAM  | 3  | 0 | 21.05  | 20.96  | 20.96  |      |   |
| 1.4             | 16QAM  | 3  | 1 | 21.08  | 21.09  | 20.97  |      |   |
| 1.4             | 16QAM  | 3  | 3 | 21.03  | 21.04  | 20.94  | 22.5 | 0 |
| 1.4             | 16QAM  | 6  | 0 | 21.14  | 21.11  | 21.00  |      |   |
| 1.4             | 64QAM  | 1  | 0 | 21.24  | 21.18  | 21.08  |      |   |
| 1.4             | 64QAM  | 1  | 3 | 21.33  | 21.14  | 21.24  |      |   |
| 1.4             | 64QAM  | 1  | 5 | 21.22  | 21.14  | 21.20  | 22.5 | 0 |
| 1.4             | 64QAM  | 3  | 0 | 21.22  | 21.10  | 21.07  |      |   |
| 1.4             | 64QAM  | 3  | 1 | 21.21  | 21.11  | 21.00  |      |   |
| 1.4             | 64QAM  | 3  | 3 | 21.19  | 21.03  | 20.99  |      |   |
| 1.4             | 64QAM  | 6  | 0 | 21.28  | 21.17  | 21.03  | 22.5 | 0 |
| 1.4             | 256QAM | 1  | 0 | 18.92  | 18.86  | 18.82  | 20.5 | 2 |
| 1.4             | 256QAM | 1  | 3 | 18.96  | 19.01  | 18.91  |      |   |
| 1.4             | 256QAM | 1  | 5 | 18.84  | 18.93  | 18.76  |      |   |
| 1.4             | 256QAM | 3  | 0 | 18.97  | 19.00  | 18.85  |      |   |
| 1.4             | 256QAM | 3  | 1 | 18.99  | 19.03  | 18.92  | 20.5 | 2 |
| 1.4             | 256QAM | 3  | 3 | 18.92  | 18.95  | 18.89  |      |   |
| 1.4             | 256QAM | 6  | 0 | 19.14  | 19.04  | 18.83  |      |   |

| Ant2 Band 4 Down power / DSI 5 |            |         |           |                                                                                            |                                                                              |                                                                 |                     |          |                     |          |  |
|--------------------------------|------------|---------|-----------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|----------|---------------------|----------|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq.                                                                      | Power Middle Ch. / Freq.                                                     | Power High Ch. / Freq.                                          | Tune-up limit (dBm) | MPR (dB) |                     |          |  |
| Channel                        |            |         |           |                                                                                            |                                                                              |                                                                 |                     |          |                     |          |  |
| Frequency (MHz)                |            |         |           | 20050                                                                                      | 20175                                                                        | 20300                                                           |                     |          |                     |          |  |
| 20                             | QPSK       | 1       | 0         | 20.28                                                                                      | 20.37                                                                        | 20.21                                                           | 21.5                | 0        |                     |          |  |
| 20                             | QPSK       | 1       | 49        | 19.89                                                                                      | 20.00                                                                        | 19.89                                                           |                     |          |                     |          |  |
| 20                             | QPSK       | 1       | 99        | 19.89                                                                                      | 19.91                                                                        | 19.99                                                           |                     |          |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 20.13                                                                                      | 20.24                                                                        | 20.20                                                           | 21.5                | 0        |                     |          |  |
| 20                             | QPSK       | 50      | 24        | 19.97                                                                                      | 20.01                                                                        | 20.06                                                           |                     |          |                     |          |  |
| 20                             | QPSK       | 50      | 50        | 19.94                                                                                      | 20.07                                                                        | 19.91                                                           |                     |          |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 20.09                                                                                      | 20.18                                                                        | 20.02                                                           | 21.5                | 0        |                     |          |  |
| 20                             | 16QAM      | 1       | 0         | 20.16                                                                                      | 20.27                                                                        | 20.12                                                           |                     |          |                     |          |  |
| 20                             | 16QAM      | 1       | 49        | 20.20                                                                                      | 20.02                                                                        | 20.13                                                           |                     |          |                     |          |  |
| 20                             | 16QAM      | 1       | 99        | 20.14                                                                                      | 19.88                                                                        | 19.85                                                           | 21.5                | 0        |                     |          |  |
| 20                             | 16QAM      | 50      | 0         | 20.12                                                                                      | 20.19                                                                        | 20.16                                                           |                     |          |                     |          |  |
| 20                             | 16QAM      | 50      | 24        | 20.25                                                                                      | 20.18                                                                        | 20.00                                                           |                     |          |                     |          |  |
| 20                             | 16QAM      | 50      | 50        | 20.00                                                                                      | 20.02                                                                        | 20.06                                                           | 21.5                | 0        |                     |          |  |
| 20                             | 16QAM      | 100     | 0         | 20.27                                                                                      | 20.02                                                                        | 20.20                                                           |                     |          |                     |          |  |
| 20                             | 64QAM      | 1       | 0         | 20.35                                                                                      | 19.93                                                                        | 20.04                                                           |                     |          |                     |          |  |
| 20                             | 64QAM      | 1       | 49        | 19.89                                                                                      | 20.10                                                                        | 19.95                                                           | 21.5                | 0        |                     |          |  |
| 20                             | 64QAM      | 1       | 99        | 19.99                                                                                      | 19.98                                                                        | 19.97                                                           |                     |          |                     |          |  |
| 20                             | 64QAM      | 50      | 0         | 20.23                                                                                      | 20.20                                                                        | 20.32                                                           |                     |          |                     |          |  |
| 20                             | 64QAM      | 50      | 24        | 20.30                                                                                      | 20.02                                                                        | 20.26                                                           | 21.5                | 0        |                     |          |  |
| 20                             | 64QAM      | 50      | 50        | 20.16                                                                                      | 20.00                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 20                             | 64QAM      | 100     | 0         | 20.21                                                                                      | 20.29                                                                        | 20.24                                                           |                     |          |                     |          |  |
| 20                             | 256QAM     | 1       | 0         | 19.12                                                                                      | 19.09                                                                        | 19.07                                                           | 20.5                | 1        |                     |          |  |
| 20                             | 256QAM     | 1       | 49        | 18.91                                                                                      | 18.94                                                                        | 18.88                                                           |                     |          |                     |          |  |
| 20                             | 256QAM     | 1       | 99        | 18.90                                                                                      | 18.79                                                                        | 18.70                                                           |                     |          |                     |          |  |
| 20                             | 256QAM     | 50      | 0         | 19.16                                                                                      | 19.14                                                                        | 19.15                                                           | 20.5                | 1        |                     |          |  |
| 20                             | 256QAM     | 50      | 24        | 19.06                                                                                      | 19.06                                                                        | 18.98                                                           |                     |          |                     |          |  |
| 20                             | 256QAM     | 50      | 50        | 19.09                                                                                      | 19.06                                                                        | 19.14                                                           |                     |          |                     |          |  |
| 20                             | 256QAM     | 100     | 0         | 18.94                                                                                      | 19.08                                                                        | 18.99                                                           | 21.5                | 0        |                     |          |  |
| Channel                        |            |         |           |                                                                                            |                                                                              |                                                                 |                     |          |                     |          |  |
| Frequency (MHz)                |            |         |           | 20050 <th>20175<th>20325<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th>   | 20175 <th>20325<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>   | 20325 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |
| 15                             | QPSK       | 1       | 0         | 20.12                                                                                      | 20.36                                                                        | 20.11                                                           | 21.5                | 0        |                     |          |  |
| 15                             | QPSK       | 1       | 37        | 20.04                                                                                      | 19.98                                                                        | 19.88                                                           |                     |          |                     |          |  |
| 15                             | QPSK       | 1       | 74        | 20.02                                                                                      | 19.96                                                                        | 19.92                                                           |                     |          |                     |          |  |
| 15                             | QPSK       | 36      | 0         | 20.11                                                                                      | 20.23                                                                        | 20.28                                                           | 21.5                | 0        |                     |          |  |
| 15                             | QPSK       | 36      | 20        | 19.91                                                                                      | 20.19                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 15                             | QPSK       | 36      | 39        | 20.01                                                                                      | 19.90                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 15                             | QPSK       | 75      | 0         | 20.04                                                                                      | 20.00                                                                        | 20.06                                                           | 21.5                | 0        |                     |          |  |
| 15                             | 16QAM      | 1       | 0         | 20.25                                                                                      | 20.12                                                                        | 20.19                                                           |                     |          |                     |          |  |
| 15                             | 16QAM      | 1       | 37        | 20.20                                                                                      | 19.89                                                                        | 20.19                                                           |                     |          |                     |          |  |
| 15                             | 16QAM      | 1       | 74        | 20.15                                                                                      | 19.87                                                                        | 19.93                                                           | 21.5                | 0        |                     |          |  |
| 15                             | 16QAM      | 36      | 0         | 20.12                                                                                      | 20.12                                                                        | 20.15                                                           |                     |          |                     |          |  |
| 15                             | 16QAM      | 36      | 20        | 20.29                                                                                      | 20.09                                                                        | 19.95                                                           |                     |          |                     |          |  |
| 15                             | 16QAM      | 36      | 39        | 20.11                                                                                      | 20.01                                                                        | 20.20                                                           | 21.5                | 0        |                     |          |  |
| 15                             | 16QAM      | 75      | 0         | 20.07                                                                                      | 19.92                                                                        | 19.98                                                           |                     |          |                     |          |  |
| 15                             | 64QAM      | 1       | 0         | 20.20                                                                                      | 20.08                                                                        | 20.19                                                           |                     |          |                     |          |  |
| 15                             | 64QAM      | 1       | 37        | 19.98                                                                                      | 19.89                                                                        | 19.75                                                           | 21.5                | 0        |                     |          |  |
| 15                             | 64QAM      | 1       | 74        | 19.97                                                                                      | 19.89                                                                        | 19.82                                                           |                     |          |                     |          |  |
| 15                             | 64QAM      | 36      | 0         | 20.30                                                                                      | 20.25                                                                        | 20.44                                                           |                     |          |                     |          |  |
| 15                             | 64QAM      | 36      | 20        | 20.32                                                                                      | 20.09                                                                        | 20.19                                                           | 21.5                | 0        |                     |          |  |
| 15                             | 64QAM      | 36      | 39        | 20.01                                                                                      | 20.04                                                                        | 20.07                                                           |                     |          |                     |          |  |
| 15                             | 64QAM      | 75      | 0         | 20.25                                                                                      | 20.24                                                                        | 20.10                                                           |                     |          |                     |          |  |
| 15                             | 256QAM     | 1       | 0         | 19.05                                                                                      | 19.05                                                                        | 19.11                                                           | 20.5                | 1        |                     |          |  |
| 15                             | 256QAM     | 1       | 37        | 18.92                                                                                      | 18.87                                                                        | 18.88                                                           |                     |          |                     |          |  |
| 15                             | 256QAM     | 1       | 74        | 18.81                                                                                      | 18.77                                                                        | 18.84                                                           |                     |          |                     |          |  |
| 15                             | 256QAM     | 36      | 0         | 19.17                                                                                      | 19.20                                                                        | 19.03                                                           | 20.5                | 1        |                     |          |  |
| 15                             | 256QAM     | 36      | 20        | 19.07                                                                                      | 18.92                                                                        | 18.99                                                           |                     |          |                     |          |  |
| 15                             | 256QAM     | 36      | 39        | 18.96                                                                                      | 18.87                                                                        | 19.09                                                           |                     |          |                     |          |  |
| 15                             | 256QAM     | 75      | 0         | 18.97                                                                                      | 18.98                                                                        | 19.17                                                           | 21.5                | 0        |                     |          |  |
| Channel                        |            |         |           |                                                                                            |                                                                              |                                                                 |                     |          |                     |          |  |
| Frequency (MHz)                |            |         |           | 20050 <th>20175<th>20300<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th>   | 20175 <th>20300<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th>   | 20300 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th>  |                     |          | Tune-up limit (dBm) | MPR (dB) |  |
| 10                             | QPSK       | 1       | 0         | 19.97                                                                                      | 19.97                                                                        | 20.00                                                           | 21.5                | 0        |                     |          |  |
| 10                             | QPSK       | 1       | 25        | 20.06                                                                                      | 20.00                                                                        | 19.96                                                           |                     |          |                     |          |  |
| 10                             | QPSK       | 1       | 49        | 20.08                                                                                      | 19.97                                                                        | 19.81                                                           |                     |          |                     |          |  |
| 10                             | QPSK       | 25      | 0         | 19.94                                                                                      | 19.93                                                                        | 20.07                                                           | 21.5                | 0        |                     |          |  |
| 10                             | QPSK       | 25      | 12        | 20.04                                                                                      | 20.06                                                                        | 20.01                                                           |                     |          |                     |          |  |
| 10                             | QPSK       | 25      | 25        | 20.35                                                                                      | 19.94                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 10                             | QPSK       | 50      | 0         | 20.20                                                                                      | 19.92                                                                        | 19.88                                                           | 21.5                | 0        |                     |          |  |
| 10                             | 16QAM      | 1       | 0         | 20.17                                                                                      | 19.94                                                                        | 20.16                                                           |                     |          |                     |          |  |
| 10                             | 16QAM      | 1       | 25        | 20.23                                                                                      | 19.98                                                                        | 19.93                                                           |                     |          |                     |          |  |
| 10                             | 16QAM      | 1       | 49        | 20.12                                                                                      | 20.22                                                                        | 19.92                                                           | 21.5                | 0        |                     |          |  |
| 10                             | 16QAM      | 25      | 0         | 20.08                                                                                      | 20.08                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 10                             | 16QAM      | 25      | 12        | 20.06                                                                                      | 20.06                                                                        | 20.10                                                           |                     |          |                     |          |  |
| 10                             | 16QAM      | 25      | 25        | 20.25                                                                                      | 20.05                                                                        | 19.94                                                           | 21.5                | 0        |                     |          |  |
| 10                             | 16QAM      | 50      | 0         | 20.19                                                                                      | 20.06                                                                        | 20.11                                                           |                     |          |                     |          |  |
| 10                             | 64QAM      | 1       | 0         | 20.30                                                                                      | 20.33                                                                        | 20.13                                                           |                     |          |                     |          |  |
| 10                             | 64QAM      | 1       | 25        | 20.28                                                                                      | 20.11                                                                        | 20.00                                                           | 21.5                | 0        |                     |          |  |
| 10                             | 64QAM      | 1       | 49        | 20.04                                                                                      | 20.11                                                                        | 20.12                                                           |                     |          |                     |          |  |
| 10                             | 64QAM      | 25      | 0         | 20.27                                                                                      | 20.13                                                                        | 20.20                                                           |                     |          |                     |          |  |
| 10                             | 64QAM      | 25      | 12        | 20.23                                                                                      | 20.12                                                                        | 20.08                                                           | 21.5                | 0        |                     |          |  |
| 10                             | 64QAM      | 25      | 25        | 20.37                                                                                      | 20.23                                                                        | 19.98                                                           |                     |          |                     |          |  |
| 10                             | 64QAM      | 50      | 0         | 20.25                                                                                      | 20.31                                                                        | 20.22                                                           |                     |          |                     |          |  |
| 10                             | 256QAM     | 1       | 0         | 18.94                                                                                      | 18.80                                                                        | 18.74                                                           | 20.5                | 1        |                     |          |  |
| 10                             | 256QAM     | 1       | 25        | 18.90                                                                                      | 19.05                                                                        | 18.89                                                           |                     |          |                     |          |  |
| 10                             | 256QAM     | 1       | 49        | 19.02                                                                                      | 18.91                                                                        | 18.95                                                           |                     |          |                     |          |  |
| 10                             | 256QAM     | 25      | 0         | 19.14                                                                                      | 19.03                                                                        | 18.76                                                           | 20.5                | 1        |                     |          |  |
| 10                             | 256QAM     | 25      | 12        | 19.22                                                                                      | 19.09                                                                        | 18.95                                                           |                     |          |                     |          |  |
| 10                             | 256QAM     | 25      | 25        | 19.06                                                                                      | 19.00                                                                        | 19.04                                                           |                     |          |                     |          |  |
| 10                             | 256QAM     | 50      | 0         | 19.14                                                                                      | 18.96                                                                        | 18.35                                                           | 21.5                | 0        |                     |          |  |
| Channel                        |            |         |           |                                                                                            |                                                                              |                                                                 |                     |          |                     |          |  |
| Frequency (MHz)                |            |         |           | 17115 <th>1732.5<th>1753.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th></th> | 1732.5 <th>1753.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><th></th></th> | 1753.5 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <th></th> |                     |          | Tune-up limit (dBm) | MPR (dB) |  |
| 3                              | QPSK       | 1       | 0         | 20.20                                                                                      | 20.07                                                                        | 19.80                                                           | 21.5                | 0        |                     |          |  |
| 3                              | QPSK       | 1       | 8         | 20.20                                                                                      | 19.99                                                                        | 20.06                                                           |                     |          |                     |          |  |
| 3                              | QPSK       | 1       | 14        | 20.18                                                                                      | 20.03                                                                        | 20.09                                                           |                     |          |                     |          |  |
| 3                              | QPSK       | 8       | 0         | 20.15                                                                                      | 20.12                                                                        | 20.02                                                           | 21.5                | 0        |                     |          |  |
| 3                              | QPSK       | 8       | 7         | 20.22                                                                                      | 20.10                                                                        | 20.02                                                           |                     |          |                     |          |  |
| 3                              | QPSK       | 15      | 0         | 20.26                                                                                      | 20.22                                                                        | 20.00                                                           |                     |          |                     |          |  |
| 3                              | 16QAM      | 1       | 0         | 20.11                                                                                      | 19.99                                                                        | 19.90                                                           | 21.5                | 0        |                     |          |  |
| 3                              | 16QAM      | 1       | 8         | 20.24                                                                                      | 20.25                                                                        | 20.19                                                           |                     |          |                     |          |  |
| 3                              | 16QAM      | 1       | 14        | 20.25                                                                                      | 20.18                                                                        | 20.12                                                           |                     |          |                     |          |  |
| 3                              | 16QAM      | 8       | 0         | 20.30                                                                                      | 20.11                                                                        | 20.01                                                           | 21.5                | 0        |                     |          |  |
| 3                              | 16QAM      | 8       | 4         | 20.37                                                                                      | 20.12                                                                        | 20.19                                                           |                     |          |                     |          |  |
| 3                              | 16QAM      | 8       | 7         | 20.24                                                                                      | 20.13                                                                        | 20.20                                                           |                     |          |                     |          |  |
| 3                              | 16QAM      | 15      | 0         | 20.36                                                                                      | 20.04                                                                        | 19.97                                                           | 21.5                | 0        |                     |          |  |
| 3                              | 64QAM      | 1       | 0         | 20.00                                                                                      | 20.13                                                                        | 19.95                                                           |                     |          |                     |          |  |
| 3                              | 64QAM      | 1       | 8         | 20.12                                                                                      | 20.08                                                                        | 19.93                                                           |                     |          |                     |          |  |
| 3                              | 64QAM      | 1       | 14        | 20.32                                                                                      | 20.04                                                                        | 19.89                                                           | 21.5                | 0        |                     |          |  |
| 3                              | 64QAM      | 8       | 0         | 20.35                                                                                      | 20.02                                                                        | 19.98                                                           |                     |          |                     |          |  |
| 3                              | 64QAM      | 8       | 4         | 20.39                                                                                      | 20.16                                                                        | 20.16                                                           |                     |          |                     |          |  |
| 3                              | 64QAM      | 8       | 7         | 20.33                                                                                      | 20.10                                                                        | 20.04                                                           | 20.5                | 1        |                     |          |  |
| 3                              | 64QAM      | 15      | 0         | 20.16                                                                                      | 20.17                                                                        | 20.10                                                           |                     |          |                     |          |  |
| 3                              | 256QAM     | 1       | 0         | 19.04                                                                                      | 18.88                                                                        | 18.80                                                           |                     |          |                     |          |  |
| 3                              | 256QAM     | 1       | 8         | 19.06                                                                                      | 19.19                                                                        | 18.90                                                           | 20.5                | 1        |                     |          |  |
| 3                              | 256QAM     | 1       | 14        | 19.07                                                                                      | 18.82                                                                        | 19.07                                                           |                     |          |                     |          |  |
| 3                              | 256QAM     | 8       | 0         | 19.24                                                                                      | 19.03                                                                        | 18.98                                                           |                     |          |                     |          |  |
| 3                              | 256QAM     | 8       | 4         | 19.31                                                                                      | 19.13                                                                        | 18.93                                                           |                     |          |                     |          |  |

|                 |        |    |   |       |        |        |                     |          |
|-----------------|--------|----|---|-------|--------|--------|---------------------|----------|
| 3               | 256QAM | 8  | 7 | 19.20 | 19.05  | 19.04  | 20.5                | 1        |
| 3               | 256QAM | 15 | 0 | 19.31 | 18.97  | 18.95  |                     |          |
| Channel         |        |    |   | 19.05 | 20.175 | 20.363 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |   | 170.7 | 1722.5 | 1724.3 |                     |          |
| 1.4             | QPSK   | 1  | 0 | 20.10 | 19.87  | 20.03  | 21.5                | 0        |
| 1.4             | QPSK   | 1  | 3 | 20.16 | 20.10  | 19.83  |                     |          |
| 1.4             | QPSK   | 1  | 5 | 19.93 | 19.88  | 19.89  |                     |          |
| 1.4             | QPSK   | 3  | 0 | 19.82 | 19.81  | 19.78  |                     |          |
| 1.4             | QPSK   | 3  | 1 | 20.13 | 19.96  | 20.00  |                     |          |
| 1.4             | QPSK   | 3  | 3 | 19.86 | 19.85  | 19.90  | 21.5                | 0        |
| 1.4             | QPSK   | 6  | 0 | 20.17 | 19.96  | 19.81  |                     |          |
| 1.4             | 16QAM  | 1  | 0 | 20.30 | 20.29  | 20.18  |                     |          |
| 1.4             | 16QAM  | 1  | 3 | 20.29 | 20.38  | 20.39  |                     |          |
| 1.4             | 16QAM  | 1  | 5 | 20.38 | 20.43  | 20.28  |                     |          |
| 1.4             | 16QAM  | 3  | 0 | 20.16 | 19.99  | 20.04  | 21.5                | 0        |
| 1.4             | 16QAM  | 3  | 1 | 20.19 | 20.10  | 19.89  |                     |          |
| 1.4             | 16QAM  | 3  | 3 | 19.98 | 19.94  | 20.03  |                     |          |
| 1.4             | 16QAM  | 6  | 0 | 20.08 | 20.02  | 19.92  |                     |          |
| 1.4             | 64QAM  | 1  | 0 | 20.15 | 20.14  | 20.21  |                     |          |
| 1.4             | 64QAM  | 1  | 3 | 20.33 | 20.20  | 20.22  | 21.5                | 0        |
| 1.4             | 64QAM  | 1  | 5 | 20.31 | 20.11  | 20.18  |                     |          |
| 1.4             | 64QAM  | 3  | 0 | 20.15 | 20.19  | 20.10  |                     |          |
| 1.4             | 64QAM  | 3  | 1 | 20.09 | 20.22  | 19.96  |                     |          |
| 1.4             | 64QAM  | 3  | 3 | 20.15 | 20.08  | 19.98  |                     |          |
| 1.4             | 64QAM  | 6  | 0 | 20.35 | 20.13  | 19.92  | 21.5                | 0        |
| 1.4             | 256QAM | 1  | 0 | 18.96 | 18.78  | 18.92  |                     |          |
| 1.4             | 256QAM | 1  | 3 | 18.93 | 19.02  | 19.04  |                     |          |
| 1.4             | 256QAM | 1  | 5 | 18.83 | 18.94  | 18.65  |                     |          |
| 1.4             | 256QAM | 3  | 0 | 18.84 | 18.96  | 18.92  |                     |          |
| 1.4             | 256QAM | 3  | 1 | 19.09 | 18.94  | 18.97  | 20.5                | 1        |
| 1.4             | 256QAM | 3  | 3 | 18.96 | 18.97  | 18.81  |                     |          |
| 1.4             | 256QAM | 6  | 0 | 19.19 | 19.15  | 18.95  |                     |          |

|                 |        |    |   |        |         |        |                     |          |
|-----------------|--------|----|---|--------|---------|--------|---------------------|----------|
| 3               | 256QAM | 8  | 7 | 19.17  | 18.99   | 18.93  | 20.5                | 1        |
| 3               | 256QAM | 15 | 0 | 19.05  | 19.11   | 18.98  |                     |          |
| Channel         |        |    |   | 18.979 | 19.0322 | 19.095 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |   | 1710.7 | 1745    | 1772.3 |                     |          |
| 1.4             | QPSK   | 1  | 0 | 20.79  | 21.04   | 20.91  | 22.5                | 0        |
| 1.4             | QPSK   | 1  | 3 | 20.88  | 20.81   | 20.59  |                     |          |
| 1.4             | QPSK   | 1  | 5 | 20.67  | 20.81   | 20.72  |                     |          |
| 1.4             | QPSK   | 3  | 0 | 20.80  | 20.76   | 20.74  |                     |          |
| 1.4             | QPSK   | 3  | 1 | 20.79  | 20.81   | 20.73  |                     |          |
| 1.4             | QPSK   | 3  | 3 | 20.78  | 20.74   | 20.74  | 22.5                | 0        |
| 1.4             | QPSK   | 6  | 0 | 21.03  | 21.02   | 20.88  |                     |          |
| 1.4             | 16QAM  | 1  | 0 | 20.83  | 21.06   | 21.04  |                     |          |
| 1.4             | 16QAM  | 1  | 3 | 20.96  | 20.97   | 21.04  |                     |          |
| 1.4             | 16QAM  | 1  | 5 | 21.31  | 20.84   | 20.87  |                     |          |
| 1.4             | 16QAM  | 3  | 0 | 21.01  | 20.76   | 20.76  | 22.5                | 0        |
| 1.4             | 16QAM  | 3  | 1 | 20.91  | 20.84   | 20.79  |                     |          |
| 1.4             | 16QAM  | 3  | 3 | 20.80  | 20.76   | 20.62  |                     |          |
| 1.4             | 16QAM  | 6  | 0 | 21.07  | 20.97   | 20.95  |                     |          |
| 1.4             | 64QAM  | 1  | 0 | 20.85  | 20.99   | 21.04  |                     |          |
| 1.4             | 64QAM  | 1  | 3 | 21.07  | 20.92   | 20.93  | 22.5                | 0        |
| 1.4             | 64QAM  | 1  | 5 | 21.16  | 20.81   | 20.84  |                     |          |
| 1.4             | 64QAM  | 3  | 0 | 20.96  | 20.71   | 20.82  |                     |          |
| 1.4             | 64QAM  | 3  | 1 | 20.95  | 20.94   | 20.72  |                     |          |
| 1.4             | 64QAM  | 3  | 3 | 20.89  | 20.70   | 20.83  |                     |          |
| 1.4             | 64QAM  | 6  | 0 | 21.30  | 21.12   | 21.13  | 22.5                | 0        |
| 1.4             | 256QAM | 1  | 0 | 18.74  | 18.93   | 18.93  |                     |          |
| 1.4             | 256QAM | 1  | 3 | 18.93  | 18.74   | 18.62  |                     |          |
| 1.4             | 256QAM | 1  | 5 | 18.67  | 18.86   | 18.76  |                     |          |
| 1.4             | 256QAM | 3  | 0 | 18.90  | 18.85   | 18.66  |                     |          |
| 1.4             | 256QAM | 3  | 1 | 18.94  | 18.89   | 18.76  | 20.5                | 2        |
| 1.4             | 256QAM | 3  | 3 | 18.70  | 18.75   | 18.76  |                     |          |
| 1.4             | 256QAM | 6  | 0 | 19.10  | 19.00   | 18.94  |                     |          |

| Ant2 Band 66 Down power / DSI 5 |            |         |           |                          |                             |                           |                        |             |  |  |
|---------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|--|
| BW (MHz)                        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Channel                         |            |         |           | 132072                   | 132322                      | 132572                    |                        |             |  |  |
| Frequency (MHz)                 |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |  |  |
| 20                              | QPSK       | 1       | 0         | 20.01                    | 20.25                       | 19.86                     | 21.5                   | 0           |  |  |
| 20                              | QPSK       | 1       | 49        | 20.05                    | 19.91                       | 19.89                     |                        |             |  |  |
| 20                              | QPSK       | 1       | 99        | 19.81                    | 19.98                       | 19.93                     |                        |             |  |  |
| 20                              | QPSK       | 50      | 0         | 19.92                    | 20.15                       | 20.08                     | 21.5                   | 0           |  |  |
| 20                              | QPSK       | 50      | 24        | 20.13                    | 20.16                       | 20.10                     |                        |             |  |  |
| 20                              | QPSK       | 50      | 50        | 20.00                    | 20.11                       | 20.05                     |                        |             |  |  |
| 20                              | QPSK       | 100     | 0         | 20.14                    | 20.17                       | 19.99                     | 21.5                   | 0           |  |  |
| 20                              | 16QAM      | 1       | 0         | 20.00                    | 20.25                       | 20.00                     |                        |             |  |  |
| 20                              | 16QAM      | 1       | 49        | 20.19                    | 20.19                       | 20.10                     |                        |             |  |  |
| 20                              | 16QAM      | 1       | 99        | 19.84                    | 19.97                       | 20.02                     | 21.5                   | 0           |  |  |
| 20                              | 16QAM      | 50      | 0         | 20.13                    | 19.92                       | 20.06                     |                        |             |  |  |
| 20                              | 16QAM      | 50      | 24        | 20.16                    | 20.01                       | 20.10                     |                        |             |  |  |
| 20                              | 16QAM      | 50      | 50        | 20.03                    | 20.13                       | 20.20                     | 21.5                   | 0           |  |  |
| 20                              | 16QAM      | 100     | 0         | 20.21                    | 20.00                       | 20.12                     |                        |             |  |  |
| 20                              | 64QAM      | 1       | 0         | 19.98                    | 20.16                       | 20.13                     |                        |             |  |  |
| 20                              | 64QAM      | 1       | 49        | 20.04                    | 20.08                       | 20.08                     | 21.5                   | 0           |  |  |
| 20                              | 64QAM      | 1       | 99        | 20.14                    | 19.89                       | 19.97                     |                        |             |  |  |
| 20                              | 64QAM      | 50      | 0         | 20.18                    | 20.27                       | 20.26                     |                        |             |  |  |
| 20                              | 64QAM      | 50      | 24        | 20.22                    | 20.17                       | 20.22                     | 21.5                   | 0           |  |  |
| 20                              | 64QAM      | 50      | 50        | 20.18                    | 20.21                       | 20.28                     |                        |             |  |  |
| 20                              | 64QAM      | 100     | 0         | 20.12                    | 20.17                       | 20.03                     |                        |             |  |  |
| 20                              | 256QAM     | 1       | 0         | 19.10                    | 19.38                       | 19.01                     | 20.5                   | 1           |  |  |
| 20                              | 256QAM     | 1       | 49        | 19.08                    | 19.07                       | 18.99                     |                        |             |  |  |
| 20                              | 256QAM     | 1       | 99        | 18.98                    | 19.02                       | 18.88                     |                        |             |  |  |
| 20                              | 256QAM     | 50      | 0         | 19.27                    | 19.31                       | 19.02                     | 20.5                   | 1           |  |  |
| 20                              | 256QAM     | 50      | 24        | 19.35                    | 19.17                       | 19.15                     |                        |             |  |  |
| 20                              | 256QAM     | 50      | 50        | 19.27                    | 19.15                       | 19.20                     |                        |             |  |  |
| 20                              | 256QAM     | 100     | 0         | 19.24                    | 19.24                       | 19.25                     |                        |             |  |  |
| Channel                         |            |         |           | 132047                   | 132322                      | 132597                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                 |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |             |  |  |
| 15                              | QPSK       | 1       | 0         | 19.74                    | 19.95                       | 19.78                     | 21.5                   | 0           |  |  |
| 15                              | QPSK       | 1       | 37        | 19.89                    | 19.96                       | 19.83                     |                        |             |  |  |
| 15                              | QPSK       | 1       | 74        | 20.20                    | 19.77                       | 19.71                     |                        |             |  |  |
| 15                              | QPSK       | 36      | 0         | 20.19                    | 19.88                       | 19.91                     | 21.5                   | 0           |  |  |
| 15                              | QPSK       | 36      | 20        | 20.13                    | 20.18                       | 20.13                     |                        |             |  |  |
| 15                              | QPSK       | 36      | 39        | 19.98                    | 19.86                       | 20.15                     |                        |             |  |  |
| 15                              | QPSK       | 75      | 0         | 20.11                    | 20.05                       | 20.02                     | 21.5                   | 0           |  |  |
| 15                              | 16QAM      | 1       | 0         | 20.00                    | 19.92                       | 19.90                     |                        |             |  |  |
| 15                              | 16QAM      | 1       | 37        | 20.21                    | 20.00                       | 19.86                     |                        |             |  |  |
| 15                              | 16QAM      | 1       | 74        | 20.07                    | 19.87                       | 20.03                     | 21.5                   | 0           |  |  |
| 15                              | 16QAM      | 36      | 0         | 20.27                    | 19.98                       | 20.07                     |                        |             |  |  |
| 15                              | 16QAM      | 36      | 20        | 20.22                    | 20.10                       | 19.96                     |                        |             |  |  |
| 15                              | 16QAM      | 36      | 39        | 20.21                    | 19.96                       | 20.03                     | 21.5                   | 0           |  |  |
| 15                              | 16QAM      | 75      | 0         | 20.21                    | 20.20                       | 20.10                     |                        |             |  |  |
| 15                              | 64QAM      | 1       | 0         | 19.82                    | 19.86                       | 20.00                     |                        |             |  |  |
| 15                              | 64QAM      | 1       | 37        | 20.26                    | 19.79                       | 19.81                     | 21.5                   | 0           |  |  |
| 15                              | 64QAM      | 1       | 74        | 20.19                    | 19.98                       | 19.86                     |                        |             |  |  |
| 15                              | 64QAM      | 36      | 0         | 20.30                    | 20.16                       | 20.00                     |                        |             |  |  |
| 15                              | 64QAM      | 36      | 20        | 20.30                    | 20.34                       | 20.01                     | 21.5                   | 0           |  |  |
| 15                              | 64QAM      | 36      | 39        | 20.30                    | 20.11                       | 20.24                     |                        |             |  |  |
| 15                              | 64QAM      | 75      | 0         | 20.30                    | 20.33                       | 20.12                     |                        |             |  |  |
| 15                              | 256QAM     | 1       | 0         | 18.86                    | 18.83                       | 18.95                     | 20.5                   | 1           |  |  |
| 15                              | 256QAM     | 1       | 37        | 18.66                    | 18.52                       | 18.62                     |                        |             |  |  |
| 15                              | 256QAM     | 1       | 74        | 18.89                    | 19.00                       | 18.84                     |                        |             |  |  |
| 15                              | 256QAM     | 36      | 0         | 19.05                    | 19.01                       | 18.92                     | 20.5                   | 1           |  |  |
| 15                              | 256QAM     | 36      | 20        | 19.24                    | 19.20                       | 18.95                     |                        |             |  |  |
| 15                              | 256QAM     | 36      | 39        | 19.00                    | 19.08                       | 19.04                     |                        |             |  |  |
| 15                              | 256QAM     | 75      | 0         | 19.41                    | 18.98                       | 18.98                     |                        |             |  |  |
| Channel                         |            |         |           | 132002                   | 132322                      | 132592                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                 |            |         |           | 1715                     | 1745                        | 1775                      |                        |             |  |  |
| 10                              | QPSK       | 1       | 0         | 19.52                    | 19.91                       | 19.86                     | 21.5                   | 0           |  |  |
| 10                              | QPSK       | 1       | 25        | 19.84                    | 20.01                       | 19.86                     |                        |             |  |  |
| 10                              | QPSK       | 1       | 49        | 19.89                    | 19.98                       | 19.86                     |                        |             |  |  |
| 10                              | QPSK       | 25      | 0         | 19.87                    | 19.98                       | 20.03                     | 21.5                   | 0           |  |  |
| 10                              | QPSK       | 25      | 12        | 20.18                    | 20.19                       | 20.04                     |                        |             |  |  |
| 10                              | QPSK       | 25      | 25        | 20.02                    | 20.04                       | 20.04                     |                        |             |  |  |
| 10                              | QPSK       | 50      | 0         | 19.94                    | 20.10                       | 19.79                     | 21.5                   | 0           |  |  |
| 10                              | 16QAM      | 1       | 0         | 19.72                    | 19.97                       | 20.07                     |                        |             |  |  |
| 10                              | 16QAM      | 1       | 25        | 20.13                    | 20.02                       | 19.96                     |                        |             |  |  |
| 10                              | 16QAM      | 1       | 49        | 20.13                    | 20.09                       | 20.04                     | 21.5                   | 0           |  |  |
| 10                              | 16QAM      | 25      | 0         | 20.24                    | 20.03                       | 19.96                     |                        |             |  |  |
| 10                              | 16QAM      | 25      | 12        | 20.14                    | 20.19                       | 20.04                     |                        |             |  |  |
| 10                              | 16QAM      | 25      | 25        | 20.12                    | 20.03                       | 20.15                     | 21.5                   | 0           |  |  |
| 10                              | 16QAM      | 50      | 0         | 20.18                    | 20.21                       | 19.87                     |                        |             |  |  |
| 10                              | 64QAM      | 1       | 0         | 19.93                    | 20.30                       | 20.10                     |                        |             |  |  |
| 10                              | 64QAM      | 1       | 25        | 20.10                    | 20.18                       | 19.99                     | 21.5                   | 0           |  |  |
| 10                              | 64QAM      | 1       | 49        | 20.19                    | 20.15                       | 20.11                     |                        |             |  |  |
| 10                              | 64QAM      | 25      | 0         | 20.23                    | 20.12                       | 20.07                     |                        |             |  |  |
| 10                              | 64QAM      | 25      | 12        | 20.14                    | 20.18                       | 20.05                     | 21.5                   | 0           |  |  |
| 10                              | 64QAM      | 25      | 25        | 20.22                    | 20.15                       | 20.10                     |                        |             |  |  |
| 10                              | 64QAM      | 50      | 0         | 20.20                    | 20.13                       | 20.04                     |                        |             |  |  |
| 10                              | 256QAM     | 1       | 0         | 18.75                    | 18.95                       | 19.05                     | 20.5                   | 1           |  |  |
| 10                              | 256QAM     | 1       | 25        | 18.93                    | 18.87                       | 19.04                     |                        |             |  |  |
| 10                              | 256QAM     | 1       | 49        | 18.64                    | 18.92                       | 18.75                     |                        |             |  |  |
| 10                              | 256QAM     | 25      | 0         | 18.86                    | 19.00                       | 18.98                     | 20.5                   | 1           |  |  |
| 10                              | 256QAM     | 25      | 12        | 19.14                    | 18.91                       | 19.02                     |                        |             |  |  |
| 10                              | 256QAM     | 25      | 25        | 19.27                    | 18.95                       | 19.18                     |                        |             |  |  |
| 10                              | 256QAM     | 50      | 0         | 18.80                    | 19.17                       | 18.94                     |                        |             |  |  |
| Channel                         |            |         |           | 131997                   | 132322                      | 132647                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                 |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                        |             |  |  |
| 5                               | QPSK       | 1       | 0         | 19.99                    | 20.10                       | 19.86                     | 21.5                   | 0           |  |  |
| 5                               | QPSK       | 1       | 12        | 20.13                    | 20.15                       | 20.10                     |                        |             |  |  |
| 5                               | QPSK       | 1       | 24        | 19.95                    | 19.92                       | 19.85                     |                        |             |  |  |
| 5                               | QPSK       | 12      | 0         | 20.00                    | 20.03                       | 20.16                     | 21.5                   | 0           |  |  |
| 5                               | QPSK       | 12      | 7         | 20.30                    | 20.32                       | 19.99                     |                        |             |  |  |
| 5                               | QPSK       | 12      | 13        | 20.30                    | 20.09                       | 19.84                     |                        |             |  |  |
| 5                               | QPSK       | 25      | 0         | 20.06                    | 20.21                       | 20.13                     | 21.5                   | 0           |  |  |
| 5                               | 16QAM      | 1       | 0         | 19.92                    | 20.14                       | 20.20                     |                        |             |  |  |
| 5                               | 16QAM      | 1       | 12        | 20.11                    | 20.03                       | 19.96                     |                        |             |  |  |
| 5                               | 16QAM      | 1       | 24        | 20.22                    | 20.14                       | 19.96                     | 21.5                   | 0           |  |  |
| 5                               | 16QAM      | 12      | 0         | 20.24                    | 20.04                       | 20.09                     |                        |             |  |  |
| 5                               | 16QAM      | 12      | 7         | 20.11                    | 20.20                       | 19.99                     |                        |             |  |  |
| 5                               | 16QAM      | 12      | 13        | 20.09                    | 19.93                       | 20.14                     | 21.5                   | 0           |  |  |
| 5                               | 16QAM      | 25      | 0         | 20.12                    | 20.04                       | 20.06                     |                        |             |  |  |
| 5                               | 64QAM      | 1       | 0         | 19.80                    | 20.12                       | 20.10                     |                        |             |  |  |
| 5                               | 64QAM      | 1       | 12        | 20.09                    | 19.97                       | 20.06                     | 21.5                   | 0           |  |  |
| 5                               | 64QAM      | 1       | 24        | 19.98                    | 19.86                       | 20.01                     |                        |             |  |  |
| 5                               | 64QAM      | 12      | 0         | 20.18                    | 20.43                       | 20.34                     |                        |             |  |  |
| 5                               | 64QAM      | 12      | 7         | 20.35                    | 20.31                       | 20.12                     | 21.5                   | 0           |  |  |
| 5                               | 64QAM      | 12      | 13        | 20.26                    | 20.25                       | 20.14                     |                        |             |  |  |
| 5                               | 64QAM      | 25      | 0         | 20.31                    | 20.24                       | 20.21                     |                        |             |  |  |
| 5                               | 256QAM     | 1       | 0         | 18.94                    | 18.97                       | 19.12                     | 20.5                   | 1           |  |  |
| 5                               | 256QAM     | 1       | 12        | 18.97                    | 19.14                       | 18.95                     |                        |             |  |  |
| 5                               | 256QAM     | 1       | 24        | 19.16                    | 18.96                       | 18.79                     |                        |             |  |  |
| 5                               | 256QAM     | 12      | 0         | 19.23                    | 19.08                       | 19.02                     | 20.5                   | 1           |  |  |
| 5                               | 256QAM     | 12      | 7         | 19.30                    | 19.22                       | 19.06                     |                        |             |  |  |
| 5                               | 256QAM     | 12      | 13        | 19.24                    | 19.10                       | 19.10                     |                        |             |  |  |
| 5                               | 256QAM     | 25      | 0         | 19.07                    | 19.02                       | 19.05                     |                        |             |  |  |
| Channel                         |            |         |           | 131987                   | 132322                      | 132657                    | Tune-up<br>limit (dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                 |            |         |           | 1711.5                   | 1745                        | 1778.5                    |                        |             |  |  |
| 3                               | QPSK       | 1       | 0         | 19.87                    | 19.93                       | 19.99                     | 21.5                   | 0           |  |  |
| 3                               | QPSK       | 1       | 8         | 20.11                    | 20.17                       | 19.94                     |                        |             |  |  |
| 3                               | QPSK       | 1       | 14        | 20.18                    | 19.82                       | 19.80                     |                        |             |  |  |
| 3                               | QPSK       | 8       | 0         | 20.17                    | 20.08                       | 20.02                     | 21.5                   | 0           |  |  |
| 3                               | QPSK       | 8       | 4         | 20.16                    | 20.14                       | 19.97                     |                        |             |  |  |
| 3                               | QPSK       | 8       | 7         | 20.05                    | 20.05                       | 20.17                     |                        |             |  |  |
| 3                               | QPSK       | 15      | 0         | 20.19                    | 20.01                       | 20.07                     | 21.5                   | 0           |  |  |
| 3                               | 16QAM      | 1       | 0         | 20.18                    | 19.95                       | 19.91                     |                        |             |  |  |
| 3                               | 16QAM      | 1       | 8         | 20.15                    | 20.14                       | 19.96                     |                        |             |  |  |
| 3                               | 16QAM      | 1       | 14        | 20.10                    | 19.94                       | 19.92                     | 21.5                   | 0           |  |  |
| 3                               | 16QAM      | 8       | 0         | 20.23                    | 20.12                       | 20.10                     |                        |             |  |  |
| 3                               | 16QAM      | 8       | 4         | 20.16                    | 20.16                       | 20.20                     |                        |             |  |  |
| 3                               | 16QAM      | 8       | 7         | 20.33                    | 20.02                       | 20.19                     | 21.5                   | 0           |  |  |
| 3                               | 64QAM      | 1       | 0         | 20.29                    | 20.22                       | 20.23                     |                        |             |  |  |
| 3                               | 64QAM      | 15      | 0         | 20.31                    | 20.26                       | 20.03                     |                        |             |  |  |
| 3                               | 256QAM     | 1       | 0         | 19.16                    | 19.01                       | 18.97                     | 20.5                   | 1           |  |  |
| 3                               | 256QAM     | 1       | 8         | 19.14                    | 18.09                       | 18.97                     |                        |             |  |  |
| 3                               | 256QAM     | 1       | 14        | 19.05                    | 19.12                       | 18.81                     |                        |             |  |  |
| 3                               | 256QAM     | 8       | 0         | 19.38                    | 19.08                       | 19.93                     | 20.5                   | 1           |  |  |
| 3                               | 256QAM     | 8       | 4         | 19.16                    | 19.02                       | 19.19                     |                        |             |  |  |

|                 |        |    |   |         |       |         |                           |             |
|-----------------|--------|----|---|---------|-------|---------|---------------------------|-------------|
| 3               | 256QAM | 8  | 7 | 19.22   | 19.10 | 18.95   | 20.5                      | 1           |
| 3               | 256QAM | 15 | 0 | 19.00   | 19.23 | 19.03   |                           |             |
| Channel         |        |    |   | 13107.9 | 13202 | 13265.9 |                           |             |
| Frequency (MHz) |        |    |   | 1710.7  | 1745  | 1779.3  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| 1.4             | QPSK   | 1  | 0 | 19.70   | 19.05 | 19.96   | 21.5                      | 0           |
| 1.4             | QPSK   | 1  | 3 | 19.78   | 19.92 | 19.69   |                           |             |
| 1.4             | QPSK   | 1  | 5 | 19.60   | 19.76 | 19.60   |                           |             |
| 1.4             | QPSK   | 3  | 0 | 19.67   | 19.83 | 19.71   |                           |             |
| 1.4             | QPSK   | 3  | 1 | 19.74   | 19.85 | 19.73   |                           |             |
| 1.4             | QPSK   | 3  | 3 | 19.67   | 19.72 | 19.66   |                           |             |
| 1.4             | QPSK   | 6  | 0 | 20.00   | 20.00 | 19.93   | 21.5                      | 0           |
| 1.4             | 16QAM  | 1  | 0 | 19.82   | 20.07 | 19.95   | 21.5                      | 0           |
| 1.4             | 16QAM  | 1  | 3 | 19.85   | 19.84 | 20.04   |                           |             |
| 1.4             | 16QAM  | 1  | 5 | 20.32   | 19.92 | 19.87   |                           |             |
| 1.4             | 16QAM  | 3  | 0 | 20.12   | 19.83 | 19.78   |                           |             |
| 1.4             | 16QAM  | 3  | 1 | 19.93   | 19.73 | 19.70   |                           |             |
| 1.4             | 16QAM  | 3  | 3 | 19.75   | 19.86 | 19.83   |                           |             |
| 1.4             | 16QAM  | 6  | 0 | 19.98   | 20.02 | 19.96   | 21.5                      | 0           |
| 1.4             | 64QAM  | 1  | 0 | 19.91   | 19.92 | 20.01   | 21.5                      | 0           |
| 1.4             | 64QAM  | 1  | 3 | 20.16   | 19.80 | 19.90   |                           |             |
| 1.4             | 64QAM  | 1  | 5 | 20.06   | 19.89 | 19.95   |                           |             |
| 1.4             | 64QAM  | 3  | 0 | 19.96   | 19.58 | 19.85   |                           |             |
| 1.4             | 64QAM  | 3  | 1 | 19.94   | 19.76 | 19.83   |                           |             |
| 1.4             | 64QAM  | 3  | 3 | 19.84   | 19.70 | 19.83   |                           |             |
| 1.4             | 64QAM  | 6  | 0 | 20.20   | 20.12 | 20.15   | 21.5                      | 0           |
| 1.4             | 256QAM | 1  | 0 | 18.65   | 18.89 | 18.90   | 20.5                      | 1           |
| 1.4             | 256QAM | 1  | 3 | 18.82   | 18.62 | 18.56   |                           |             |
| 1.4             | 256QAM | 1  | 5 | 18.55   | 18.94 | 18.72   |                           |             |
| 1.4             | 256QAM | 3  | 0 | 18.80   | 18.76 | 18.64   |                           |             |
| 1.4             | 256QAM | 3  | 1 | 18.89   | 18.97 | 18.76   |                           |             |
| 1.4             | 256QAM | 3  | 3 | 18.82   | 18.75 | 18.77   |                           |             |
| 1.4             | 256QAM | 6  | 0 | 19.16   | 18.99 | 19.06   | 20.5                      | 1           |

| Ant2 Band 38 Down power / DSI 3/5 |            |         |           |                     |                        |                      |                     |          |  |
|-----------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 37850               | 38000                  | 38150                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2580                | 2595                   | 2610                 |                     |          |  |
| 20                                | QPSK       | 1       | 0         | 21.66               | 21.76                  | 21.65                | 22.5                | 0        |  |
| 20                                | QPSK       | 1       | 49        | 21.65               | 21.69                  | 21.63                |                     |          |  |
| 20                                | QPSK       | 1       | 99        | 21.70               | 21.55                  | 21.35                |                     |          |  |
| 20                                | QPSK       | 50      | 0         | 21.54               | 21.65                  | 21.21                | 22.5                | 0        |  |
| 20                                | QPSK       | 50      | 24        | 21.52               | 21.62                  | 21.25                |                     |          |  |
| 20                                | QPSK       | 50      | 50        | 21.64               | 21.52                  | 21.25                |                     |          |  |
| 20                                | QPSK       | 100     | 0         | 21.60               | 21.67                  | 21.29                | 22.5                | 0        |  |
| 20                                | 16QAM      | 1       | 0         | 21.45               | 21.59                  | 21.15                |                     |          |  |
| 20                                | 16QAM      | 1       | 49        | 21.51               | 21.55                  | 21.18                |                     |          |  |
| 20                                | 16QAM      | 1       | 99        | 21.54               | 21.58                  | 21.17                | 22.5                | 0        |  |
| 20                                | 16QAM      | 50      | 0         | 21.58               | 21.61                  | 21.17                |                     |          |  |
| 20                                | 16QAM      | 50      | 24        | 21.58               | 21.60                  | 21.33                |                     |          |  |
| 20                                | 16QAM      | 50      | 50        | 21.65               | 21.63                  | 21.25                | 22.5                | 0        |  |
| 20                                | 16QAM      | 100     | 0         | 21.60               | 21.63                  | 21.29                |                     |          |  |
| 20                                | 64QAM      | 1       | 0         | 21.59               | 21.56                  | 21.17                |                     |          |  |
| 20                                | 64QAM      | 1       | 49        | 21.54               | 21.51                  | 21.18                | 22.5                | 0        |  |
| 20                                | 64QAM      | 1       | 99        | 21.61               | 21.54                  | 21.22                |                     |          |  |
| 20                                | 64QAM      | 50      | 0         | 21.47               | 21.49                  | 21.12                |                     |          |  |
| 20                                | 64QAM      | 50      | 24        | 21.60               | 21.59                  | 21.17                | 22.5                | 0        |  |
| 20                                | 64QAM      | 50      | 50        | 21.54               | 21.50                  | 21.15                |                     |          |  |
| 20                                | 64QAM      | 100     | 0         | 21.60               | 21.36                  | 21.32                |                     |          |  |
| 20                                | 256QAM     | 1       | 0         | 19.14               | 19.33                  | 19.36                | 20.5                | 2        |  |
| 20                                | 256QAM     | 1       | 49        | 19.32               | 19.26                  | 19.17                |                     |          |  |
| 20                                | 256QAM     | 1       | 99        | 19.18               | 19.20                  | 18.88                |                     |          |  |
| 20                                | 256QAM     | 50      | 0         | 19.20               | 19.15                  | 18.84                | 20.5                | 2        |  |
| 20                                | 256QAM     | 50      | 24        | 19.23               | 19.10                  | 18.91                |                     |          |  |
| 20                                | 256QAM     | 50      | 50        | 19.18               | 19.20                  | 18.74                |                     |          |  |
| 20                                | 256QAM     | 100     | 0         | 19.35               | 19.15                  | 18.89                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 37625               | 38000                  | 38175                |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2577.5              | 2593                   | 2612.5               | Tune-up limit (dBm) | MPR (dB) |  |
| 15                                | QPSK       | 1       | 0         | 21.61               | 21.58                  | 21.67                |                     |          |  |
| 15                                | QPSK       | 1       | 37        | 21.59               | 21.56                  | 21.59                | 22.5                | 0        |  |
| 15                                | QPSK       | 1       | 74        | 21.64               | 21.63                  | 21.65                |                     |          |  |
| 15                                | QPSK       | 36      | 0         | 21.58               | 21.45                  | 21.56                |                     |          |  |
| 15                                | QPSK       | 36      | 20        | 21.66               | 21.52                  | 21.57                | 22.5                | 0        |  |
| 15                                | QPSK       | 36      | 39        | 21.50               | 21.48                  | 21.58                |                     |          |  |
| 15                                | QPSK       | 75      | 0         | 21.63               | 21.64                  | 21.64                |                     |          |  |
| 15                                | 16QAM      | 1       | 0         | 21.62               | 21.49                  | 21.58                | 22.5                | 0        |  |
| 15                                | 16QAM      | 1       | 37        | 21.40               | 21.53                  | 21.48                |                     |          |  |
| 15                                | 16QAM      | 1       | 74        | 21.48               | 21.48                  | 21.59                |                     |          |  |
| 15                                | 16QAM      | 36      | 0         | 21.52               | 21.46                  | 21.56                | 22.5                | 0        |  |
| 15                                | 16QAM      | 36      | 20        | 21.62               | 21.53                  | 21.51                |                     |          |  |
| 15                                | 16QAM      | 36      | 39        | 21.56               | 21.49                  | 21.48                |                     |          |  |
| 15                                | 16QAM      | 75      | 0         | 21.58               | 21.53                  | 21.63                | 22.5                | 0        |  |
| 15                                | 64QAM      | 1       | 0         | 21.58               | 21.58                  | 21.55                |                     |          |  |
| 15                                | 64QAM      | 1       | 37        | 21.57               | 21.55                  | 21.62                |                     |          |  |
| 15                                | 64QAM      | 1       | 74        | 21.61               | 21.49                  | 21.50                | 22.5                | 0        |  |
| 15                                | 64QAM      | 36      | 0         | 21.55               | 21.57                  | 21.53                |                     |          |  |
| 15                                | 64QAM      | 36      | 20        | 21.58               | 21.54                  | 21.66                |                     |          |  |
| 15                                | 64QAM      | 36      | 39        | 21.56               | 21.56                  | 21.63                | 22.5                | 0        |  |
| 15                                | 64QAM      | 75      | 0         | 21.63               | 21.60                  | 21.72                |                     |          |  |
| 15                                | 256QAM     | 1       | 0         | 19.24               | 19.19                  | 19.30                |                     |          |  |
| 15                                | 256QAM     | 1       | 37        | 19.32               | 19.16                  | 19.14                | 20.5                | 2        |  |
| 15                                | 256QAM     | 1       | 74        | 19.21               | 19.09                  | 19.21                |                     |          |  |
| 15                                | 256QAM     | 36      | 0         | 19.13               | 19.02                  | 19.23                |                     |          |  |
| 15                                | 256QAM     | 36      | 20        | 19.21               | 19.26                  | 19.29                | 20.5                | 2        |  |
| 15                                | 256QAM     | 36      | 39        | 19.17               | 19.15                  | 19.17                |                     |          |  |
| 15                                | 256QAM     | 75      | 0         | 19.21               | 19.12                  | 19.21                |                     |          |  |
| Channel                           |            |         |           | 37600               | 38000                  | 38200                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2575                | 2595                   | 2615                 |                     |          |  |
| 10                                | QPSK       | 1       | 0         | 21.66               | 21.46                  | 21.65                | 22.5                | 0        |  |
| 10                                | QPSK       | 1       | 25        | 21.61               | 21.39                  | 21.71                |                     |          |  |
| 10                                | QPSK       | 1       | 49        | 21.37               | 21.23                  | 21.66                |                     |          |  |
| 10                                | QPSK       | 25      | 0         | 21.58               | 21.55                  | 21.54                | 22.5                | 0        |  |
| 10                                | QPSK       | 25      | 12        | 21.62               | 21.58                  | 21.55                |                     |          |  |
| 10                                | QPSK       | 25      | 25        | 21.62               | 21.53                  | 21.64                |                     |          |  |
| 10                                | QPSK       | 50      | 0         | 21.61               | 21.57                  | 21.43                | 22.5                | 0        |  |
| 10                                | 16QAM      | 1       | 0         | 21.66               | 21.51                  | 21.66                |                     |          |  |
| 10                                | 16QAM      | 1       | 25        | 21.55               | 21.54                  | 21.58                |                     |          |  |
| 10                                | 16QAM      | 1       | 49        | 21.54               | 21.57                  | 21.64                | 22.5                | 0        |  |
| 10                                | 16QAM      | 25      | 0         | 21.67               | 21.52                  | 21.44                |                     |          |  |
| 10                                | 16QAM      | 25      | 12        | 21.65               | 21.64                  | 21.57                |                     |          |  |
| 10                                | 16QAM      | 25      | 25        | 21.64               | 21.56                  | 21.55                | 22.5                | 0        |  |
| 10                                | 16QAM      | 50      | 0         | 21.67               | 21.68                  | 21.51                |                     |          |  |
| 10                                | 16QAM      | 50      | 12        | 21.75               | 21.65                  | 21.70                |                     |          |  |
| 10                                | 64QAM      | 1       | 25        | 21.69               | 21.74                  | 21.73                | 22.5                | 0        |  |
| 10                                | 64QAM      | 1       | 49        | 21.61               | 21.62                  | 21.75                |                     |          |  |
| 10                                | 64QAM      | 25      | 0         | 21.60               | 21.54                  | 21.43                |                     |          |  |
| 10                                | 64QAM      | 25      | 12        | 21.55               | 21.67                  | 21.45                | 22.5                | 0        |  |
| 10                                | 64QAM      | 25      | 25        | 21.54               | 21.56                  | 21.58                |                     |          |  |
| 10                                | 64QAM      | 50      | 0         | 21.57               | 21.53                  | 21.41                |                     |          |  |
| 10                                | 256QAM     | 1       | 0         | 19.30               | 19.09                  | 19.12                | 20.5                | 2        |  |
| 10                                | 256QAM     | 1       | 25        | 19.19               | 18.85                  | 19.23                |                     |          |  |
| 10                                | 256QAM     | 1       | 49        | 18.90               | 18.84                  | 19.26                |                     |          |  |
| 10                                | 256QAM     | 25      | 0         | 19.20               | 19.20                  | 19.12                | 20.5                | 2        |  |
| 10                                | 256QAM     | 25      | 12        | 19.36               | 19.15                  | 19.07                |                     |          |  |
| 10                                | 256QAM     | 25      | 25        | 19.24               | 19.12                  | 19.27                |                     |          |  |
| 10                                | 256QAM     | 50      | 0         | 19.23               | 19.21                  | 19.16                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 37775               | 38000                  | 38225                |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2572.5              | 2595                   | 2617.5               | Tune-up limit (dBm) | MPR (dB) |  |
| 5                                 | QPSK       | 1       | 0         | 21.60               | 21.61                  | 21.54                |                     |          |  |
| 5                                 | QPSK       | 1       | 12        | 21.59               | 21.57                  | 21.62                | 22.5                | 0        |  |
| 5                                 | QPSK       | 1       | 24        | 21.66               | 21.64                  | 21.65                |                     |          |  |
| 5                                 | QPSK       | 12      | 0         | 21.54               | 21.62                  | 21.56                |                     |          |  |
| 5                                 | QPSK       | 12      | 7         | 21.65               | 21.63                  | 21.55                | 22.5                | 0        |  |
| 5                                 | QPSK       | 12      | 13        | 21.53               | 21.53                  | 21.51                |                     |          |  |
| 5                                 | QPSK       | 25      | 0         | 21.65               | 21.52                  | 21.53                |                     |          |  |
| 5                                 | 16QAM      | 1       | 0         | 21.62               | 21.58                  | 21.58                | 22.5                | 0        |  |
| 5                                 | 16QAM      | 1       | 12        | 21.64               | 21.62                  | 21.65                |                     |          |  |
| 5                                 | 16QAM      | 1       | 24        | 21.74               | 21.65                  | 21.66                |                     |          |  |
| 5                                 | 16QAM      | 12      | 0         | 21.60               | 21.48                  | 21.51                | 22.5                | 0        |  |
| 5                                 | 16QAM      | 12      | 7         | 21.66               | 21.60                  | 21.49                |                     |          |  |
| 5                                 | 16QAM      | 12      | 13        | 21.62               | 21.57                  | 21.59                |                     |          |  |
| 5                                 | 16QAM      | 25      | 0         | 21.60               | 21.53                  | 21.63                | 22.5                | 0        |  |
| 5                                 | 64QAM      | 1       | 0         | 21.63               | 21.56                  | 21.57                |                     |          |  |
| 5                                 | 64QAM      | 1       | 12        | 21.69               | 21.51                  | 21.60                |                     |          |  |
| 5                                 | 64QAM      | 1       | 24        | 21.53               | 21.62                  | 21.56                | 22.5                | 0        |  |
| 5                                 | 64QAM      | 12      | 0         | 21.61               | 21.62                  | 21.45                |                     |          |  |
| 5                                 | 64QAM      | 12      | 7         | 21.57               | 21.54                  | 21.51                |                     |          |  |
| 5                                 | 64QAM      | 12      | 13        | 21.52               | 21.48                  | 21.57                | 22.5                | 0        |  |
| 5                                 | 64QAM      | 25      | 0         | 21.49               | 21.58                  | 21.51                |                     |          |  |
| 5                                 | 256QAM     | 1       | 0         | 19.16               | 19.05                  | 19.27                | 20.5                | 2        |  |
| 5                                 | 256QAM     | 1       | 12        | 19.19               | 19.24                  | 19.29                |                     |          |  |
| 5                                 | 256QAM     | 1       | 24        | 19.32               | 19.25                  | 19.27                |                     |          |  |
| 5                                 | 256QAM     | 12      | 0         | 19.26               | 19.20                  | 19.14                | 20.5                | 2        |  |
| 5                                 | 256QAM     | 12      | 7         | 19.23               | 19.26                  | 19.22                |                     |          |  |
| 5                                 | 256QAM     | 12      | 13        | 19.14               | 19.32                  | 19.21                |                     |          |  |
| 5                                 | 256QAM     | 25      | 0         | 19.17               | 19.17                  | 19.15                |                     |          |  |

| Ant2 Band 41 Down power / DSI 3/5 |            |         |           |                                                                                                                                     |                                                                                                                       |                                                                                                         |                                                                                             |                      |                     |          |
|-----------------------------------|------------|---------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|----------|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch / Freq                                                                                                                 | Power Middle Ch / Freq                                                                                                | Power High Ch / Freq                                                                                    | Power High Ch / Freq                                                                        | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel                           |            |         |           | 39790                                                                                                                               | 41195                                                                                                                 | 40620                                                                                                   | 41055                                                                                       | 41490                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                   |            |         |           | 2506                                                                                                                                | 2549.5                                                                                                                | 2593                                                                                                    | 2636.5                                                                                      | 2680                 |                     |          |
| 20                                | QPSK       | 1       | 0         | 21.71                                                                                                                               | 21.56                                                                                                                 | 21.76                                                                                                   | 21.62                                                                                       | 21.74                | 22.5                | 0        |
| 20                                | QPSK       | 1       | 49        | 21.69                                                                                                                               | 21.56                                                                                                                 | 21.72                                                                                                   | 21.51                                                                                       | 21.60                |                     |          |
| 20                                | QPSK       | 1       | 99        | 21.59                                                                                                                               | 21.57                                                                                                                 | 21.65                                                                                                   | 21.61                                                                                       | 21.58                |                     |          |
| 20                                | QPSK       | 50      | 0         | 21.49                                                                                                                               | 21.43                                                                                                                 | 21.67                                                                                                   | 21.63                                                                                       | 21.38                |                     |          |
| 20                                | QPSK       | 50      | 24        | 21.63                                                                                                                               | 21.52                                                                                                                 | 21.61                                                                                                   | 21.40                                                                                       | 21.46                | 22.5                | 0        |
| 20                                | QPSK       | 50      | 50        | 21.61                                                                                                                               | 21.49                                                                                                                 | 21.53                                                                                                   | 21.38                                                                                       | 21.54                |                     |          |
| 20                                | QPSK       | 100     | 0         | 21.64                                                                                                                               | 21.59                                                                                                                 | 21.66                                                                                                   | 21.49                                                                                       | 21.43                |                     |          |
| 20                                | 16QAM      | 1       | 0         | 21.54                                                                                                                               | 21.54                                                                                                                 | 21.57                                                                                                   | 21.65                                                                                       | 21.57                |                     |          |
| 20                                | 16QAM      | 1       | 49        | 21.54                                                                                                                               | 21.53                                                                                                                 | 21.53                                                                                                   | 21.49                                                                                       | 21.42                | 22.5                | 0        |
| 20                                | 16QAM      | 1       | 99        | 21.55                                                                                                                               | 21.53                                                                                                                 | 21.54                                                                                                   | 21.59                                                                                       | 21.45                |                     |          |
| 20                                | 16QAM      | 50      | 0         | 21.52                                                                                                                               | 21.45                                                                                                                 | 21.62                                                                                                   | 21.49                                                                                       | 21.43                |                     |          |
| 20                                | 16QAM      | 50      | 24        | 21.59                                                                                                                               | 21.53                                                                                                                 | 21.53                                                                                                   | 21.50                                                                                       | 21.50                |                     |          |
| 20                                | 16QAM      | 50      | 50        | 21.64                                                                                                                               | 21.59                                                                                                                 | 21.58                                                                                                   | 21.42                                                                                       | 21.56                | 22.5                | 0        |
| 20                                | 16QAM      | 100     | 0         | 21.63                                                                                                                               | 21.59                                                                                                                 | 21.56                                                                                                   | 21.55                                                                                       | 21.46                |                     |          |
| 20                                | 64QAM      | 1       | 0         | 21.56                                                                                                                               | 21.53                                                                                                                 | 21.59                                                                                                   | 21.59                                                                                       | 21.53                |                     |          |
| 20                                | 64QAM      | 1       | 49        | 21.60                                                                                                                               | 21.44                                                                                                                 | 21.54                                                                                                   | 21.35                                                                                       | 21.53                |                     |          |
| 20                                | 64QAM      | 1       | 99        | 21.54                                                                                                                               | 21.49                                                                                                                 | 21.53                                                                                                   | 21.34                                                                                       | 21.45                | 22.5                | 0        |
| 20                                | 64QAM      | 50      | 0         | 21.54                                                                                                                               | 21.48                                                                                                                 | 21.56                                                                                                   | 21.41                                                                                       | 21.48                |                     |          |
| 20                                | 64QAM      | 50      | 24        | 21.56                                                                                                                               | 21.59                                                                                                                 | 21.53                                                                                                   | 21.39                                                                                       | 21.46                |                     |          |
| 20                                | 64QAM      | 50      | 50        | 21.60                                                                                                                               | 21.52                                                                                                                 | 21.52                                                                                                   | 21.42                                                                                       | 21.47                |                     |          |
| 20                                | 256QAM     | 1       | 0         | 21.35                                                                                                                               | 21.58                                                                                                                 | 21.47                                                                                                   | 21.39                                                                                       | 21.50                | 22.5                | 0        |
| 20                                | 256QAM     | 1       | 0         | 19.29                                                                                                                               | 19.14                                                                                                                 | 19.26                                                                                                   | 19.25                                                                                       | 19.27                |                     |          |
| 20                                | 256QAM     | 1       | 49        | 19.32                                                                                                                               | 19.24                                                                                                                 | 19.24                                                                                                   | 19.21                                                                                       | 19.14                |                     |          |
| 20                                | 256QAM     | 1       | 99        | 19.21                                                                                                                               | 19.21                                                                                                                 | 19.23                                                                                                   | 19.18                                                                                       | 19.10                |                     |          |
| 20                                | 256QAM     | 50      | 0         | 19.17                                                                                                                               | 19.09                                                                                                                 | 19.21                                                                                                   | 18.98                                                                                       | 19.05                | 20.5                | 2        |
| 20                                | 256QAM     | 50      | 24        | 19.22                                                                                                                               | 19.20                                                                                                                 | 19.14                                                                                                   | 18.96                                                                                       | 19.07                |                     |          |
| 20                                | 256QAM     | 50      | 50        | 19.15                                                                                                                               | 19.07                                                                                                                 | 19.14                                                                                                   | 18.99                                                                                       | 19.14                |                     |          |
| 20                                | 256QAM     | 100     | 0         | 19.19                                                                                                                               | 19.14                                                                                                                 | 19.36                                                                                                   | 19.16                                                                                       | 19.03                |                     |          |
| Channel                           |            |         |           | 39725 <th>40173<th>40620<th>41068<th>41515</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th></th> | 40173 <th>40620<th>41068<th>41515</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th> | 40620 <th>41068<th>41515</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th> | 41068 <th>41515</th> <th rowspan="2">Tune-up limit (dBm)</th> <th rowspan="2">MPR (dB)</th> | 41515                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                   |            |         |           | 2503.5 <th>2546.1<th>2593<th>2637.6<th>2682.5</th></th></th></th>                                                                   | 2546.1 <th>2593<th>2637.6<th>2682.5</th></th></th>                                                                    | 2593 <th>2637.6<th>2682.5</th></th>                                                                     | 2637.6 <th>2682.5</th>                                                                      | 2682.5               |                     |          |
| 15                                | QPSK       | 1       | 0         | 21.73                                                                                                                               | 21.63                                                                                                                 | 21.55                                                                                                   | 21.47                                                                                       | 21.52                | 22.5                | 0        |
| 15                                | QPSK       | 1       | 37        | 21.64                                                                                                                               | 21.55                                                                                                                 | 21.65                                                                                                   | 21.47                                                                                       | 21.62                |                     |          |
| 15                                | QPSK       | 1       | 74        | 21.64                                                                                                                               | 21.59                                                                                                                 | 21.72                                                                                                   | 21.63                                                                                       | 21.49                |                     |          |
| 15                                | QPSK       | 36      | 0         | 21.58                                                                                                                               | 21.39                                                                                                                 | 21.48                                                                                                   | 21.30                                                                                       | 21.43                |                     |          |
| 15                                | QPSK       | 36      | 20        | 21.68                                                                                                                               | 21.45                                                                                                                 | 21.51                                                                                                   | 21.28                                                                                       | 21.41                | 22.5                | 0        |
| 15                                | QPSK       | 36      | 39        | 21.54                                                                                                                               | 21.54                                                                                                                 | 21.81                                                                                                   | 21.37                                                                                       | 21.42                |                     |          |
| 15                                | QPSK       | 75      | 0         | 21.59                                                                                                                               | 21.48                                                                                                                 | 21.49                                                                                                   | 21.28                                                                                       | 21.36                |                     |          |
| 15                                | 16QAM      | 1       | 0         | 21.64                                                                                                                               | 21.55                                                                                                                 | 21.59                                                                                                   | 21.35                                                                                       | 21.45                |                     |          |
| 15                                | 16QAM      | 1       | 37        | 21.40                                                                                                                               | 21.40                                                                                                                 | 21.41                                                                                                   | 21.23                                                                                       | 21.25                | 22.5                | 0        |
| 15                                | 16QAM      | 1       | 74        | 21.53                                                                                                                               | 21.53                                                                                                                 | 21.52                                                                                                   | 21.45                                                                                       | 21.43                |                     |          |
| 15                                | 16QAM      | 36      | 0         | 21.51                                                                                                                               | 21.38                                                                                                                 | 21.43                                                                                                   | 21.36                                                                                       | 21.38                |                     |          |
| 15                                | 16QAM      | 36      | 20        | 21.50                                                                                                                               | 21.44                                                                                                                 | 21.49                                                                                                   | 21.25                                                                                       | 21.30                |                     |          |
| 15                                | 16QAM      | 36      | 39        | 21.62                                                                                                                               | 21.48                                                                                                                 | 21.49                                                                                                   | 21.33                                                                                       | 21.36                | 22.5                | 0        |
| 15                                | 16QAM      | 75      | 0         | 21.65                                                                                                                               | 21.56                                                                                                                 | 21.53                                                                                                   | 21.29                                                                                       | 21.35                |                     |          |
| 15                                | 16QAM      | 1       | 0         | 21.55                                                                                                                               | 21.51                                                                                                                 | 21.61                                                                                                   | 21.43                                                                                       | 21.40                |                     |          |
| 15                                | 64QAM      | 1       | 37        | 21.68                                                                                                                               | 21.52                                                                                                                 | 21.48                                                                                                   | 21.37                                                                                       | 21.33                |                     |          |
| 15                                | 64QAM      | 1       | 74        | 21.56                                                                                                                               | 21.54                                                                                                                 | 21.55                                                                                                   | 21.44                                                                                       | 21.46                | 22.5                | 0        |
| 15                                | 64QAM      | 36      | 0         | 21.50                                                                                                                               | 21.43                                                                                                                 | 21.45                                                                                                   | 21.40                                                                                       | 21.47                |                     |          |
| 15                                | 64QAM      | 36      | 20        | 21.59                                                                                                                               | 21.56                                                                                                                 | 21.58                                                                                                   | 21.35                                                                                       | 21.39                |                     |          |
| 15                                | 64QAM      | 36      | 39        | 21.59                                                                                                                               | 21.58                                                                                                                 | 21.54                                                                                                   | 21.33                                                                                       | 21.35                |                     |          |
| 15                                | 64QAM      | 75      | 0         | 20.92                                                                                                                               | 21.23                                                                                                                 | 20.98                                                                                                   | 21.08                                                                                       | 21.36                | 20.5                | 2        |
| 15                                | 256QAM     | 1       | 0         | 19.38                                                                                                                               | 19.23                                                                                                                 | 19.20                                                                                                   | 19.04                                                                                       | 18.96                |                     |          |
| 15                                | 256QAM     | 1       | 37        | 19.32                                                                                                                               | 19.11                                                                                                                 | 19.16                                                                                                   | 18.98                                                                                       | 19.12                |                     |          |
| 15                                | 256QAM     | 1       | 74        | 18.18                                                                                                                               | 18.18                                                                                                                 | 18.18                                                                                                   | 18.07                                                                                       | 18.14                |                     |          |
| 15                                | 256QAM     | 36      | 0         | 19.23                                                                                                                               | 19.18                                                                                                                 | 19.17                                                                                                   | 18.98                                                                                       | 19.01                | 20.5                | 2        |
| 15                                | 256QAM     | 36      | 20        | 19.26                                                                                                                               | 19.06                                                                                                                 | 19.11                                                                                                   | 18.92                                                                                       | 18.91                |                     |          |
| 15                                | 256QAM     | 36      | 39        | 19.27                                                                                                                               | 19.18                                                                                                                 | 19.12                                                                                                   | 18.87                                                                                       | 19.08                |                     |          |
| 15                                | 256QAM     | 75      | 0         | 19.23                                                                                                                               | 19.07                                                                                                                 | 19.13                                                                                                   | 18.85                                                                                       | 18.95                |                     |          |
| Channel                           |            |         |           | 39700 <th>40160<th>40620<th>41080<th>41540</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th></th> | 40160 <th>40620<th>41080<th>41540</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th> | 40620 <th>41080<th>41540</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th> | 41080 <th>41540</th> <th rowspan="2">Tune-up limit (dBm)</th> <th rowspan="2">MPR (dB)</th> | 41540                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                   |            |         |           | 2501 <th>2547.1<th>2593<th>2638.5<th>2684.5</th></th></th></th>                                                                     | 2547.1 <th>2593<th>2638.5<th>2684.5</th></th></th>                                                                    | 2593 <th>2638.5<th>2684.5</th></th>                                                                     | 2638.5 <th>2684.5</th>                                                                      | 2684.5               |                     |          |
| 10                                | QPSK       | 1       | 0         | 21.72                                                                                                                               | 21.66                                                                                                                 | 21.64                                                                                                   | 21.48                                                                                       | 21.49                | 22.5                | 0        |
| 10                                | QPSK       | 1       | 49        | 21.74                                                                                                                               | 21.54                                                                                                                 | 21.67                                                                                                   | 21.50                                                                                       | 21.60                |                     |          |
| 10                                | QPSK       | 25      | 0         | 21.45                                                                                                                               | 21.35                                                                                                                 | 21.44                                                                                                   | 21.35                                                                                       | 21.46                |                     |          |
| 10                                | QPSK       | 25      | 12        | 21.63                                                                                                                               | 21.53                                                                                                                 | 21.46                                                                                                   | 21.31                                                                                       | 21.47                |                     |          |
| 10                                | QPSK       | 25      | 25        | 21.58                                                                                                                               | 21.48                                                                                                                 | 21.43                                                                                                   | 21.25                                                                                       | 21.42                | 22.5                | 0        |
| 10                                | QPSK       | 50      | 0         | 21.57                                                                                                                               | 21.44                                                                                                                 | 21.40                                                                                                   | 21.31                                                                                       | 21.47                |                     |          |
| 10                                | 16QAM      | 1       | 0         | 21.68                                                                                                                               | 21.52                                                                                                                 | 21.41                                                                                                   | 21.39                                                                                       | 21.59                |                     |          |
| 10                                | 16QAM      | 1       | 25        | 21.65                                                                                                                               | 21.54                                                                                                                 | 21.52                                                                                                   | 21.38                                                                                       | 21.55                |                     |          |
| 10                                | 16QAM      | 1       | 49        | 21.62                                                                                                                               | 21.41                                                                                                                 | 21.51                                                                                                   | 21.38                                                                                       | 21.56                | 22.5                | 0        |
| 10                                | 16QAM      | 25      | 0         | 21.57                                                                                                                               | 21.41                                                                                                                 | 21.47                                                                                                   | 21.41                                                                                       | 21.33                |                     |          |
| 10                                | 16QAM      | 25      | 12        | 21.61                                                                                                                               | 21.49                                                                                                                 | 21.47                                                                                                   | 21.30                                                                                       | 21.50                |                     |          |
| 10                                | 16QAM      | 25      | 25        | 21.63                                                                                                                               | 21.48                                                                                                                 | 21.60                                                                                                   | 21.41                                                                                       | 21.44                |                     |          |
| 10                                | 16QAM      | 50      | 0         | 21.53                                                                                                                               | 21.47                                                                                                                 | 21.49                                                                                                   | 21.33                                                                                       | 21.46                | 22.5                | 0        |
| 10                                | 64QAM      | 1       | 0         | 21.72                                                                                                                               | 21.53                                                                                                                 | 21.68                                                                                                   | 21.50                                                                                       | 21.73                |                     |          |
| 10                                | 64QAM      | 1       | 25        | 21.63                                                                                                                               | 21.48                                                                                                                 | 21.68                                                                                                   | 21.58                                                                                       | 21.67                |                     |          |
| 10                                | 64QAM      | 1       | 49        | 21.69                                                                                                                               | 21.56                                                                                                                 | 21.67                                                                                                   | 21.56                                                                                       | 21.64                |                     |          |
| 10                                | 64QAM      | 25      | 0         | 21.51                                                                                                                               | 21.30                                                                                                                 | 21.46                                                                                                   | 21.29                                                                                       | 21.35                | 22.5                | 0        |
| 10                                | 64QAM      | 25      | 12        | 21.64                                                                                                                               | 21.52                                                                                                                 | 21.44                                                                                                   | 21.36                                                                                       | 21.47                |                     |          |
| 10                                | 64QAM      | 25      | 25        | 21.57                                                                                                                               | 21.45                                                                                                                 | 21.47                                                                                                   | 21.40                                                                                       | 21.42                |                     |          |
| 10                                | 64QAM      | 50      | 0         | 21.54                                                                                                                               | 21.51                                                                                                                 | 21.44                                                                                                   | 21.61                                                                                       | 21.32                |                     |          |
| 10                                | 256QAM     | 1       | 0         | 19.37                                                                                                                               | 19.23                                                                                                                 | 19.22                                                                                                   | 19.09                                                                                       | 19.16                | 20.5                | 2        |
| 10                                | 256QAM     | 1       | 25        | 19.19                                                                                                                               | 19.18                                                                                                                 | 19.18                                                                                                   | 18.98                                                                                       | 19.05                |                     |          |
| 10                                | 256QAM     | 1       | 49        | 19.26                                                                                                                               | 19.17                                                                                                                 | 19.19                                                                                                   | 19.03                                                                                       | 19.16                |                     |          |
| 10                                | 256QAM     | 25      | 0         | 19.24                                                                                                                               | 19.09                                                                                                                 | 19.09                                                                                                   | 19.01                                                                                       | 19.07                |                     |          |
| 10                                | 256QAM     | 25      | 12        | 19.17                                                                                                                               | 19.18                                                                                                                 | 18.98                                                                                                   | 18.85                                                                                       | 18.96                | 20.5                | 2        |
| 10                                | 256QAM     | 25      | 25        | 19.29                                                                                                                               | 19.17                                                                                                                 | 19.09                                                                                                   | 19.05                                                                                       | 19.20                |                     |          |
| 10                                | 256QAM     | 25      | 49        | 19.16                                                                                                                               | 19.13                                                                                                                 | 19.15                                                                                                   | 18.95                                                                                       | 19.03                |                     |          |
| 10                                | 256QAM     | 50      | 0         | 19.35                                                                                                                               | 19.14                                                                                                                 | 19.00                                                                                                   | 19.03                                                                                       | 19.03                |                     |          |
| Channel                           |            |         |           | 39715 <th>40145<th>40620<th>41093<th>41563</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th></th> | 40145 <th>40620<th>41093<th>41563</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th></th> | 40620 <th>41093<th>41563</th><th rowspan="2">Tune-up limit (dBm)</th><th rowspan="2">MPR (dB)</th></th> | 41093 <th>41563</th> <th rowspan="2">Tune-up limit (dBm)</th> <th rowspan="2">MPR (dB)</th> | 41563                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                   |            |         |           | 2498.5 <th>2545.8<th>2593<th>2640.30<th>2687.5</th></th></th></th>                                                                  | 2545.8 <th>2593<th>2640.30<th>2687.5</th></th></th>                                                                   | 2593 <th>2640.30<th>2687.5</th></th>                                                                    | 2640.30 <th>2687.5</th>                                                                     | 2687.5               |                     |          |
| 5                                 | QPSK       | 1       | 0         | 21.67                                                                                                                               | 21.69                                                                                                                 | 21.67                                                                                                   | 21.39                                                                                       | 21.52                | 22.5                | 0        |
| 5                                 | QPSK       | 1       | 12        | 21.68                                                                                                                               | 21.53                                                                                                                 | 21.65                                                                                                   | 21.45                                                                                       | 21.54                |                     |          |
| 5                                 | QPSK       | 1       | 24        | 21.62                                                                                                                               | 21.57                                                                                                                 | 21.64                                                                                                   | 21.40                                                                                       | 21.54                |                     |          |
| 5                                 | QPSK       | 12      | 0         | 21.58                                                                                                                               | 21.51                                                                                                                 | 21.62                                                                                                   | 21.44                                                                                       | 21.58                |                     |          |
| 5                                 | QPSK       | 12      | 7         | 21.61                                                                                                                               | 21.52                                                                                                                 | 21.61                                                                                                   | 21.45                                                                                       | 21.55                | 22.5                | 0        |
| 5                                 | QPSK       | 12      | 13        | 21.59                                                                                                                               | 21.50                                                                                                                 | 21.54                                                                                                   | 21.48                                                                                       | 21.44                |                     |          |
| 5                                 | QPSK       | 25      | 0         | 21.51                                                                                                                               | 21.55                                                                                                                 | 21.44                                                                                                   | 21.40                                                                                       | 21.49                |                     |          |
| 5                                 | 16QAM      | 1       | 0         | 21.53                                                                                                                               | 21.53                                                                                                                 | 21.46                                                                                                   | 21.41                                                                                       | 21.56                |                     |          |
| 5                                 | 16QAM      | 1       | 12        | 21.74                                                                                                                               | 21.42                                                                                                                 | 21.66                                                                                                   | 21.42                                                                                       | 21.55                | 22.5                | 0        |
| 5                                 | 16QAM      | 1       | 24        | 21.70                                                                                                                               | 21.41                                                                                                                 | 21.46                                                                                                   | 21.46                                                                                       | 21.53                |                     |          |
| 5                                 | 16QAM      | 12      | 0         | 21.51                                                                                                                               | 21.55                                                                                                                 | 21.43                                                                                                   | 21.36                                                                                       | 21.44                |                     |          |
| 5                                 | 16QAM      | 12      | 7         | 21.63                                                                                                                               | 21.55                                                                                                                 | 21.51                                                                                                   | 21.37                                                                                       | 21.47                |                     |          |
| 5                                 | 16QAM      | 12      | 13        | 21.63                                                                                                                               | 21.45                                                                                                                 | 21.57                                                                                                   | 21.35                                                                                       | 21.51                | 22.5                | 0        |
| 5                                 | 16QAM      | 25      | 0         | 21.60                                                                                                                               | 21.52                                                                                                                 | 21.47                                                                                                   | 21.47                                                                                       | 21.57                |                     |          |
| 5                                 | 64QAM      | 1       | 0         | 21.57                                                                                                                               | 21.67                                                                                                                 | 21.56                                                                                                   | 21.47                                                                                       | 21.55                |                     |          |
| 5                                 | 64QAM      | 1       | 12        | 21.60                                                                                                                               | 21.69                                                                                                                 | 21.60                                                                                                   | 21.47                                                                                       | 21.52                |                     |          |
| 5                                 | 64QAM      | 1       | 24        | 21.57                                                                                                                               | 21.74                                                                                                                 | 21.64                                                                                                   | 21.51                                                                                       | 21.52                | 22.5                | 0        |
| 5                                 | 64QAM      | 12      | 0         | 21.59                                                                                                                               | 21.55                                                                                                                 | 21.46                                                                                                   | 21.32                                                                                       | 21.56                |                     |          |
| 5                                 | 64QAM      | 12      | 7         | 21.61                                                                                                                               | 21.56                                                                                                                 | 21.57                                                                                                   | 21.49                                                                                       | 21.45                |                     |          |
| 5                                 | 64QAM      | 12      | 13        | 21.52                                                                                                                               | 21.52                                                                                                                 | 21.56                                                                                                   | 21.37                                                                                       | 21.52                |                     |          |
| 5                                 | 256QAM     | 25      | 0         | 21.61                                                                                                                               | 21.61                                                                                                                 | 21.41                                                                                                   | 21.31                                                                                       | 21.47                | 20.5                | 2        |
| 5                                 | 256QAM     | 1       | 0         | 19.26                                                                                                                               | 19.25                                                                                                                 | 18.91                                                                                                   | 19.13                                                                                       | 19.29                |                     |          |
| 5                                 | 256QAM     | 1       | 12        | 19.22                                                                                                                               | 19.18                                                                                                                 | 19.24                                                                                                   | 19.08                                                                                       | 19.16                |                     |          |
| 5                                 | 256QAM     | 1       | 24        | 19.19                                                                                                                               | 19.20                                                                                                                 | 19.20                                                                                                   | 19.00                                                                                       | 19.20                |                     |          |
| 5                                 | 256QAM     | 12      | 0         | 19.32                                                                                                                               | 19.19                                                                                                                 | 19.04                                                                                                   | 18.97                                                                                       | 19.08                | 20.5                | 2        |
| 5                                 | 256QAM     | 12      | 7         | 19.21                                                                                                                               | 19.08                                                                                                                 | 19.22                                                                                                   | 18.97                                                                                       | 19.05                |                     |          |
| 5                                 | 256QAM     | 12      | 13        | 19.18                                                                                                                               | 19.24                                                                                                                 | 19.03                                                                                                   | 19.11                                                                                       | 19.10                |                     |          |
| 5                                 | 256QAM     | 25      | 0         | 19.03                                                                                                                               | 19.02                                                                                                                 | 19.07                                                                                                   | 18.97                                                                                       | 19.09                |                     |          |

| Ant3 Full Power/DS1 3/4 |  |  |                           |       |        |       |         |       |                           |       |  |
|-------------------------|--|--|---------------------------|-------|--------|-------|---------|-------|---------------------------|-------|--|
| GSM1900                 |  |  | Burst Average Power (dBm) |       |        |       | Tune-up |       | Frame-Average Power (dBm) |       |  |
| TX Channel              |  |  | 512                       | 661   | 810    | Limit | 512     | 661   | 810                       | Limit |  |
| Frequency (MHz)         |  |  | 1852.2                    | 1860  | 1868.4 | (dBm) | 1852.2  | 1860  | 1868.4                    | (dBm) |  |
| GSM 1 Tx slot           |  |  | 28.53                     | 28.75 | 28.65  | 30.50 | 19.53   | 19.75 | 19.65                     | 21.50 |  |
| GPRS 1 Tx slot          |  |  | 28.52                     | 28.74 | 28.63  | 30.50 | 19.52   | 19.74 | 19.63                     | 21.50 |  |
| GPRS 2 Tx slots         |  |  | 25.58                     | 25.71 | 25.55  | 27.50 | 19.56   | 19.71 | 19.55                     | 21.50 |  |
| GPRS 3 Tx slots         |  |  | 23.70                     | 23.70 | 23.72  | 25.70 | 19.44   | 19.44 | 19.46                     | 21.44 |  |
| GPRS 4 Tx slots         |  |  | 23.37                     | 23.43 | 23.41  | 24.50 | 20.37   | 20.43 | 20.41                     | 21.50 |  |
| EDGE 1 Tx slot          |  |  | 24.58                     | 24.62 | 24.50  | 25.96 | 15.58   | 15.62 | 15.50                     | 16.96 |  |
| EDGE 2 Tx slots         |  |  | 21.62                     | 21.53 | 21.54  | 22.96 | 15.62   | 15.53 | 15.54                     | 16.96 |  |
| EDGE 3 Tx slots         |  |  | 19.78                     | 19.81 | 19.78  | 21.16 | 15.52   | 15.55 | 15.52                     | 16.90 |  |
| EDGE 4 Tx slots         |  |  | 18.40                     | 18.57 | 18.47  | 19.96 | 15.40   | 15.57 | 15.47                     | 16.96 |  |

| Ant3 Full Power |                    |  |  |          |       |        |                           |          | Ant3 Full Power |        |                           |  |  |  |  |  |  |
|-----------------|--------------------|--|--|----------|-------|--------|---------------------------|----------|-----------------|--------|---------------------------|--|--|--|--|--|--|
| Band            |                    |  |  | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |                 |        | Tune-up<br>Limit<br>(dBm) |  |  |  |  |  |  |
| TX Channel      |                    |  |  | 5262     | 9400  | 9538   |                           | 1312     | 1413            | 1513   |                           |  |  |  |  |  |  |
| Rx Channel      |                    |  |  | 9562     | 9800  | 9838   |                           | 1537     | 1538            | 1738   |                           |  |  |  |  |  |  |
| Frequency (MHz) |                    |  |  | 1852.4   | 1880  | 1907.6 |                           | 1732.4   | 1732.6          | 1752.6 |                           |  |  |  |  |  |  |
| 3GPP Rel 99     | AMR 12.2Kbps       |  |  | 22.91    | 22.94 | 22.93  | 23.50                     | 22.91    | 23.25           | 23.10  | 23.50                     |  |  |  |  |  |  |
| 3GPP Rel 99     | RMC 12.2Kbps       |  |  | 22.92    | 22.96 | 22.95  | 23.50                     | 22.92    | 23.27           | 23.12  | 23.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSDPA Subtest-1    |  |  | 22.13    | 22.15 | 22.06  | 22.50                     | 22.16    | 22.36           | 22.24  | 22.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSDPA Subtest-2    |  |  | 22.00    | 22.00 | 21.90  | 22.50                     | 22.09    | 22.41           | 21.94  | 22.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSDPA Subtest-3    |  |  | 21.84    | 21.27 | 21.58  | 22.00                     | 21.70    | 21.90           | 21.76  | 22.00                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSDPA Subtest-4    |  |  | 21.83    | 21.58 | 21.57  | 22.00                     | 21.70    | 21.85           | 21.73  | 22.00                     |  |  |  |  |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 |  |  | 22.07    | 22.07 | 21.97  | 22.50                     | 22.06    | 22.33           | 22.18  | 22.50                     |  |  |  |  |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 |  |  | 21.90    | 21.97 | 21.85  | 22.50                     | 22.01    | 22.35           | 21.89  | 22.50                     |  |  |  |  |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 |  |  | 21.64    | 21.25 | 21.57  | 22.00                     | 21.61    | 21.87           | 21.70  | 22.00                     |  |  |  |  |  |  |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 |  |  | 21.55    | 21.52 | 21.51  | 22.00                     | 21.61    | 21.84           | 21.66  | 22.00                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSUPA Subtest-1    |  |  | 22.11    | 22.06 | 22.01  | 22.50                     | 22.13    | 22.31           | 22.10  | 22.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSUPA Subtest-2    |  |  | 20.11    | 20.07 | 20.02  | 20.50                     | 20.33    | 20.30           | 20.12  | 20.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSUPA Subtest-3    |  |  | 21.12    | 21.06 | 21.03  | 21.50                     | 21.25    | 21.33           | 21.18  | 21.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSUPA Subtest-4    |  |  | 20.13    | 20.09 | 20.03  | 20.50                     | 20.32    | 20.36           | 20.14  | 20.50                     |  |  |  |  |  |  |
| 3GPP Rel 6      | HSUPA Subtest-5    |  |  | 22.10    | 22.10 | 22.00  | 22.50                     | 22.20    | 22.30           | 22.10  | 22.50                     |  |  |  |  |  |  |



| Ant 3 Band 4 Full Power |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
|-------------------------|------------|---------|-----------|-----------------------------|-----------------------------|------------------------------|-------------------|----------|--|--|------|---|--|--|
| BM [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch / Freq. 200500 | Power Mid Ch / Freq. 201750 | Power High Ch / Freq. 203000 | Turn-up Int. (dB) | MPN (dB) |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 20                      | QPSK       | 1       | 0         | 23.45                       | 23.55                       | 23.45                        | 23.9              | 0        |  |  |      |   |  |  |
| 20                      | QPSK       | 1       | 49        | 23.38                       | 23.34                       | 23.25                        |                   |          |  |  |      |   |  |  |
| 20                      | QPSK       | 1       | 99        | 23.36                       | 23.26                       | 23.13                        |                   |          |  |  |      |   |  |  |
| 20                      | QPSK       | 50      | 0         | 22.50                       | 22.53                       | 22.38                        |                   |          |  |  |      |   |  |  |
| 20                      | QPSK       | 50      | 24        | 22.44                       | 22.35                       | 22.33                        | 22.9              | 1        |  |  |      |   |  |  |
| 20                      | QPSK       | 50      | 50        | 22.25                       | 22.22                       | 22.21                        |                   |          |  |  |      |   |  |  |
| 20                      | QPSK       | 100     | 0         | 22.33                       | 22.36                       | 22.33                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 0         | 22.69                       | 22.61                       | 22.69                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 49        | 22.42                       | 22.46                       | 22.38                        | 22.9              | 1        |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 99        | 22.24                       | 22.40                       | 22.26                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 0         | 21.39                       | 21.30                       | 21.42                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 24        | 21.40                       | 21.24                       | 21.37                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 50        | 21.26                       | 21.19                       | 21.23                        | 21.9              | 2        |  |  |      |   |  |  |
| 20                      | 16QAM      | 100     | 0         | 21.36                       | 21.40                       | 21.38                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 0         | 21.67                       | 21.47                       | 21.59                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 49        | 21.47                       | 21.49                       | 21.52                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 99        | 21.20                       | 21.38                       | 21.17                        | 20.9              | 3        |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 0         | 20.50                       | 20.34                       | 20.45                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 24        | 20.36                       | 20.33                       | 20.36                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 50        | 20.24                       | 20.27                       | 20.31                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 100     | 0         | 20.44                       | 20.27                       | 20.31                        | 18.9              | 5        |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 0         | 18.11                       | 18.42                       | 18.26                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 49        | 18.21                       | 18.19                       | 18.02                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 1       | 99        | 18.28                       | 18.08                       | 18.07                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 0         | 18.30                       | 18.47                       | 18.27                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 24        | 18.33                       | 18.22                       | 18.16                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 50      | 50        | 18.12                       | 18.05                       | 18.16                        |                   |          |  |  |      |   |  |  |
| 20                      | 16QAM      | 100     | 0         | 18.14                       | 18.19                       | 18.12                        | 18.9              | 5        |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 15                      | QPSK       | 1       | 0         | 23.47                       | 23.34                       | 23.31                        |                   |          |  |  | 23.9 | 0 |  |  |
| 15                      | QPSK       | 1       | 37        | 23.23                       | 23.26                       | 23.12                        |                   |          |  |  |      |   |  |  |
| 15                      | QPSK       | 1       | 74        | 23.20                       | 23.16                       | 23.13                        |                   |          |  |  |      |   |  |  |
| 15                      | QPSK       | 36      | 0         | 22.42                       | 22.33                       | 22.37                        |                   |          |  |  |      |   |  |  |
| 15                      | QPSK       | 36      | 20        | 22.48                       | 22.37                       | 22.36                        | 22.9              | 1        |  |  |      |   |  |  |
| 15                      | QPSK       | 36      | 36        | 22.43                       | 22.19                       | 22.24                        |                   |          |  |  |      |   |  |  |
| 15                      | QPSK       | 75      | 0         | 22.61                       | 22.27                       | 22.46                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 0         | 22.64                       | 22.67                       | 22.46                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 37        | 22.54                       | 22.46                       | 22.30                        | 22.9              | 1        |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 74        | 22.31                       | 22.33                       | 22.32                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 0         | 21.46                       | 21.44                       | 21.40                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 20        | 21.55                       | 21.39                       | 21.38                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 36        | 21.43                       | 21.37                       | 21.24                        | 21.9              | 2        |  |  |      |   |  |  |
| 15                      | 16QAM      | 75      | 0         | 21.49                       | 21.40                       | 21.26                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 0         | 21.78                       | 21.53                       | 21.58                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 37        | 21.46                       | 21.46                       | 21.27                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 74        | 21.31                       | 21.50                       | 21.33                        | 21.9              | 2        |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 0         | 20.37                       | 20.51                       | 20.45                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 20        | 20.53                       | 20.36                       | 20.37                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 36        | 20.38                       | 20.25                       | 20.25                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 75      | 0         | 20.51                       | 20.30                       | 20.51                        | 20.9              | 3        |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 0         | 18.11                       | 18.23                       | 18.23                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 37        | 18.11                       | 18.15                       | 18.07                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 1       | 74        | 18.11                       | 18.03                       | 18.04                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 0         | 18.26                       | 18.23                       | 18.21                        | 18.9              | 5        |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 20        | 18.33                       | 18.25                       | 18.20                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 36      | 36        | 18.25                       | 18.04                       | 18.09                        |                   |          |  |  |      |   |  |  |
| 15                      | 16QAM      | 75      | 0         | 18.44                       | 18.14                       | 18.33                        |                   |          |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 10                      | QPSK       | 1       | 0         | 23.47                       | 23.34                       | 23.31                        | 23.9              | 0        |  |  |      |   |  |  |
| 10                      | QPSK       | 1       | 25        | 23.32                       | 23.21                       | 23.23                        |                   |          |  |  |      |   |  |  |
| 10                      | QPSK       | 1       | 49        | 23.31                       | 23.21                       | 23.01                        |                   |          |  |  |      |   |  |  |
| 10                      | QPSK       | 36      | 0         | 22.36                       | 22.36                       | 22.36                        |                   |          |  |  |      |   |  |  |
| 10                      | QPSK       | 35      | 12        | 22.36                       | 22.32                       | 22.22                        | 22.9              | 1        |  |  |      |   |  |  |
| 10                      | QPSK       | 25      | 25        | 22.43                       | 22.24                       | 22.52                        |                   |          |  |  |      |   |  |  |
| 10                      | QPSK       | 36      | 36        | 22.39                       | 22.32                       | 22.32                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 0         | 22.53                       | 22.54                       | 22.48                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 25        | 22.62                       | 22.43                       | 22.36                        | 22.9              | 1        |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 49        | 22.60                       | 22.39                       | 21.32                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 0         | 21.40                       | 21.38                       | 21.26                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 12        | 21.35                       | 21.39                       | 21.35                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 36      | 0         | 21.57                       | 21.27                       | 21.22                        | 21.9              | 2        |  |  |      |   |  |  |
| 10                      | 16QAM      | 36      | 25        | 21.43                       | 21.20                       | 21.30                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 0         | 21.47                       | 21.66                       | 21.72                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 25        | 21.86                       | 21.52                       | 21.38                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 49        | 21.79                       | 21.76                       | 21.62                        | 21.9              | 2        |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 0         | 20.48                       | 20.41                       | 20.31                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 12        | 20.57                       | 20.34                       | 20.35                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 35      | 25        | 20.41                       | 20.38                       | 20.39                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 50      | 0         | 20.39                       | 20.32                       | 20.25                        | 20.9              | 3        |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 0         | 18.35                       | 18.21                       | 18.12                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 25        | 18.23                       | 18.15                       | 18.12                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 1       | 49        | 18.12                       | 18.07                       | 17.95                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 0         | 18.23                       | 18.12                       | 17.92                        | 18.9              | 5        |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 12        | 18.17                       | 18.14                       | 18.13                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 25      | 25        | 18.35                       | 18.07                       | 18.16                        |                   |          |  |  |      |   |  |  |
| 10                      | 16QAM      | 50      | 0         | 18.27                       | 18.20                       | 18.12                        |                   |          |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 5                       | QPSK       | 1       | 0         | 23.42                       | 23.18                       | 23.15                        | 23.9              | 0        |  |  |      |   |  |  |
| 5                       | QPSK       | 1       | 12        | 23.30                       | 23.38                       | 23.22                        |                   |          |  |  |      |   |  |  |
| 5                       | QPSK       | 1       | 24        | 23.37                       | 23.34                       | 23.22                        |                   |          |  |  |      |   |  |  |
| 5                       | QPSK       | 12      | 0         | 22.60                       | 22.34                       | 22.17                        |                   |          |  |  |      |   |  |  |
| 5                       | QPSK       | 12      | 7         | 22.44                       | 22.37                       | 22.31                        | 22.9              | 1        |  |  |      |   |  |  |
| 5                       | QPSK       | 12      | 13        | 22.42                       | 22.37                       | 22.25                        |                   |          |  |  |      |   |  |  |
| 5                       | QPSK       | 25      | 0         | 22.42                       | 22.27                       | 22.26                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 0         | 22.82                       | 22.89                       | 22.68                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 12        | 22.84                       | 22.75                       | 22.70                        | 22.9              | 1        |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 24        | 22.73                       | 22.74                       | 22.71                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 0         | 21.49                       | 21.37                       | 21.19                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 7         | 21.54                       | 21.43                       | 21.33                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 13        | 21.49                       | 21.32                       | 21.32                        | 21.9              | 2        |  |  |      |   |  |  |
| 5                       | 16QAM      | 25      | 0         | 21.42                       | 21.24                       | 21.18                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 0         | 21.76                       | 21.67                       | 21.60                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 12        | 21.75                       | 21.60                       | 21.58                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 24        | 21.79                       | 21.79                       | 21.64                        | 21.9              | 2        |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 0         | 20.44                       | 20.34                       | 20.20                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 7         | 20.53                       | 20.48                       | 20.28                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 13        | 20.53                       | 20.38                       | 20.27                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 25      | 0         | 20.46                       | 20.34                       | 20.23                        | 20.9              | 3        |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 0         | 18.29                       | 18.13                       | 18.03                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 12        | 18.21                       | 18.28                       | 18.03                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 1       | 24        | 18.20                       | 18.06                       | 18.05                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 0         | 18.44                       | 18.11                       | 18.11                        | 18.9              | 5        |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 7         | 18.35                       | 18.26                       | 18.19                        |                   |          |  |  |      |   |  |  |
| 5                       | 16QAM      | 12      | 13        | 18.35                       | 18.12                       | 18.15                        | 18.9              | 5        |  |  |      |   |  |  |
| 5                       | 16QAM      | 25      | 0         | 18.31                       | 18.21                       | 18.12                        |                   |          |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 1       | 0         | 23.45                       | 23.28                       | 23.25                        |                   |          |  |  | 23.9 | 0 |  |  |
| 3                       | QPSK       | 1       | 12        | 23.32                       | 23.28                       | 23.21                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 1       | 24        | 23.26                       | 23.28                       | 23.25                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 8       | 0         | 22.55                       | 22.27                       | 22.18                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 8       | 7         | 22.42                       | 22.28                       | 22.22                        | 22.9              | 1        |  |  |      |   |  |  |
| 3                       | QPSK       | 8       | 7         | 22.16                       | 22.30                       | 22.14                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 16      | 0         | 22.33                       | 22.35                       | 22.31                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 16      | 7         | 22.36                       | 22.34                       | 22.31                        |                   |          |  |  |      |   |  |  |
| 3                       | QPSK       | 8       | 8         | 22.55                       | 22.52                       | 22.47                        | 22.9              | 1        |  |  |      |   |  |  |
| 3                       | 16QAM      | 1       | 14        | 22.49                       | 22.40                       | 22.35                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 1       | 14        | 22.37                       | 22.45                       | 22.37                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 4         | 21.63                       | 21.44                       | 21.35                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 7         | 21.53                       | 21.48                       | 21.33                        | 21.9              | 2        |  |  |      |   |  |  |
| 3                       | 16QAM      | 16      | 0         | 21.62                       | 21.39                       | 21.25                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 0         | 20.65                       | 20.54                       | 20.43                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 4         | 20.63                       | 20.50                       | 20.39                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 7         | 20.48                       | 20.36                       | 20.34                        | 20.9              | 3        |  |  |      |   |  |  |
| 3                       | 16QAM      | 16      | 0         | 19.29                       | 19.02                       | 17.96                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 1       | 14        | 18.31                       | 18.21                       | 18.14                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 1       | 14        | 18.16                       | 18.10                       | 18.10                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 1       | 14        | 18.02                       | 18.08                       | 18.08                        | 18.9              | 5        |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 4         | 18.06                       | 18.14                       | 18.14                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 7         | 18.17                       | 18.14                       | 18.14                        |                   |          |  |  |      |   |  |  |
| 3                       | 16QAM      | 8       | 7         | 18.18                       | 18.15                       | 18.15                        |                   |          |  |  |      |   |  |  |
| Channel                 |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| Frequency (MHz)         |            |         |           |                             |                             |                              |                   |          |  |  |      |   |  |  |
| 1.4                     | QPSK       | 1       | 0         | 23.37                       | 23.26                       | 23.24                        | 23.9              | 0        |  |  |      |   |  |  |
| 1.4                     | QPSK       | 1       | 12        | 23.24                       | 23.26                       | 23.21                        |                   |          |  |  |      |   |  |  |
| 1.4                     | QPSK       | 1       | 6         | 23.28                       | 23.18                       | 23.15                        |                   |          |  |  |      |   |  |  |
| 1.4                     | QPSK       | 3       | 0         | 22.46                       | 22.23                       | 22.21                        |                   |          |  |  |      |   |  |  |
| 1.4                     | QPSK       | 3       | 6         | 22.36                       | 22.27                       | 22.21                        | 22.9              | 1        |  |  |      |   |  |  |
| 1.4                     | QPSK       | 3       | 6         | 22.17                       | 22.14                       | 22.13                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 1       | 0         | 22.71                       | 22.53                       | 22.51                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 1       | 3         | 22.44                       | 22.38                       | 22.30                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 0         | 22.31                       | 22.25                       | 22.24                        | 22.9              | 1        |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 1         | 22.32                       | 22.18                       | 22.28                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 1         | 22.11                       | 21.71                       | 21.82                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 21.28                       | 21.32                       | 21.30                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 21.59                       | 21.39                       | 21.54                        | 21.9              | 2        |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 1         | 21.58                       | 21.41                       | 21.43                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 1         | 21.21                       | 21.30                       | 21.32                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 0         | 20.42                       | 20.26                       | 20.27                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 0         | 20.36                       | 20.18                       | 20.22                        | 20.9              | 3        |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 19.25                       | 19.08                       | 18.99                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 0         | 18.19                       | 18.21                       | 17.94                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 3       | 0         | 18.11                       | 18.02                       | 17.92                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 17.86                       | 17.86                       | 17.82                        | 18.9              | 5        |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 17.28                       | 17.13                       | 17.12                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 17.18                       | 17.18                       | 17.18                        |                   |          |  |  |      |   |  |  |
| 1.4                     | 16QAM      | 6       | 0         | 16.07                       | 16.13                       | 16.13                        |                   |          |  |  |      |   |  |  |

| Ant 3 Band 38 Full Power |            |         |           |                       |                          |                        |                     |          |                     |          |
|--------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|
| BW [MHz]                 | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |                     |          |
| Channel                  |            |         |           | 37650                 | 38000                    | 38150                  |                     |          |                     |          |
| Frequency (MHz)          |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |                     |          |
| 20                       | QPSK       | 1       | 0         | 23.38                 | 23.39                    | 23.30                  | 24.5                | 0        |                     |          |
| 20                       | QPSK       | 1       | 49        | 23.36                 | 23.33                    | 23.25                  |                     |          |                     |          |
| 20                       | QPSK       | 50      | 0         | 22.42                 | 22.55                    | 22.32                  |                     |          |                     |          |
| 20                       | QPSK       | 50      | 24        | 22.53                 | 22.39                    | 22.44                  | 23.5                | 1        |                     |          |
| 20                       | QPSK       | 50      | 50        | 22.51                 | 22.32                    | 22.35                  |                     |          |                     |          |
| 20                       | QPSK       | 100     | 0         | 22.47                 | 22.51                    | 22.43                  |                     |          |                     |          |
| 20                       | 16QAM      | 1       | 0         | 22.55                 | 22.42                    | 22.32                  | 23.5                | 1        |                     |          |
| 20                       | 16QAM      | 1       | 49        | 22.42                 | 22.37                    | 22.45                  |                     |          |                     |          |
| 20                       | 16QAM      | 50      | 0         | 21.44                 | 21.45                    | 21.42                  |                     |          |                     |          |
| 20                       | 16QAM      | 50      | 24        | 21.53                 | 21.36                    | 21.40                  | 22.5                | 2        |                     |          |
| 20                       | 16QAM      | 50      | 50        | 21.59                 | 21.40                    | 21.39                  |                     |          |                     |          |
| 20                       | 16QAM      | 100     | 0         | 21.51                 | 21.37                    | 21.47                  |                     |          |                     |          |
| 20                       | 64QAM      | 1       | 0         | 21.32                 | 21.14                    | 21.12                  | 22.5                | 2        |                     |          |
| 20                       | 64QAM      | 1       | 49        | 21.17                 | 21.05                    | 21.03                  |                     |          |                     |          |
| 20                       | 64QAM      | 1       | 99        | 21.13                 | 21.14                    | 21.10                  |                     |          |                     |          |
| 20                       | 64QAM      | 50      | 0         | 20.41                 | 20.31                    | 20.39                  | 21.5                | 3        |                     |          |
| 20                       | 64QAM      | 50      | 24        | 20.40                 | 20.36                    | 20.38                  |                     |          |                     |          |
| 20                       | 64QAM      | 50      | 50        | 20.41                 | 20.26                    | 20.30                  |                     |          |                     |          |
| 20                       | 64QAM      | 100     | 0         | 20.48                 | 20.48                    | 20.39                  | 19.5                | 5        |                     |          |
| 20                       | 256QAM     | 1       | 0         | 18.33                 | 18.24                    | 18.15                  |                     |          |                     |          |
| 20                       | 256QAM     | 1       | 49        | 18.24                 | 18.15                    | 18.19                  |                     |          |                     |          |
| 20                       | 256QAM     | 1       | 99        | 18.11                 | 18.00                    | 18.08                  | 19.5                | 5        |                     |          |
| 20                       | 256QAM     | 50      | 0         | 18.30                 | 18.45                    | 18.24                  |                     |          |                     |          |
| 20                       | 256QAM     | 50      | 24        | 18.34                 | 18.31                    | 18.30                  |                     |          |                     |          |
| 20                       | 256QAM     | 50      | 50        | 18.44                 | 18.17                    | 18.19                  | 19.5                | 5        |                     |          |
| 20                       | 256QAM     | 100     | 0         | 18.34                 | 18.32                    | 18.24                  |                     |          |                     |          |
| Channel                  |            |         |           | 37625                 | 38000                    | 38175                  |                     |          | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)          |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |                     |          |
| 15                       | QPSK       | 1       | 0         | 23.21                 | 23.24                    | 23.22                  | 24.5                | 0        |                     |          |
| 15                       | QPSK       | 1       | 37        | 23.32                 | 23.18                    | 23.26                  |                     |          |                     |          |
| 15                       | QPSK       | 1       | 74        | 23.10                 | 23.24                    | 23.10                  |                     |          |                     |          |
| 15                       | QPSK       | 36      | 0         | 22.33                 | 22.21                    | 22.34                  | 23.5                | 1        |                     |          |
| 15                       | QPSK       | 36      | 20        | 22.44                 | 22.36                    | 22.36                  |                     |          |                     |          |
| 15                       | QPSK       | 36      | 39        | 22.40                 | 22.41                    | 22.32                  |                     |          |                     |          |
| 15                       | QPSK       | 75      | 0         | 22.46                 | 22.36                    | 22.34                  | 23.5                | 1        |                     |          |
| 15                       | 16QAM      | 1       | 0         | 22.37                 | 22.34                    | 22.34                  |                     |          |                     |          |
| 15                       | 16QAM      | 1       | 37        | 22.19                 | 22.21                    | 22.07                  |                     |          |                     |          |
| 15                       | 16QAM      | 1       | 74        | 22.39                 | 22.26                    | 22.34                  | 22.5                | 2        |                     |          |
| 15                       | 16QAM      | 36      | 0         | 21.26                 | 21.37                    | 21.29                  |                     |          |                     |          |
| 15                       | 16QAM      | 36      | 20        | 21.33                 | 21.33                    | 21.34                  |                     |          |                     |          |
| 15                       | 16QAM      | 36      | 39        | 21.30                 | 21.30                    | 21.31                  | 22.5                | 2        |                     |          |
| 15                       | 16QAM      | 75      | 0         | 21.49                 | 21.34                    | 21.40                  |                     |          |                     |          |
| 15                       | 64QAM      | 1       | 0         | 21.08                 | 21.04                    | 21.20                  |                     |          |                     |          |
| 15                       | 64QAM      | 1       | 37        | 21.07                 | 21.20                    | 21.04                  | 22.5                | 2        |                     |          |
| 15                       | 64QAM      | 1       | 74        | 21.16                 | 21.14                    | 21.01                  |                     |          |                     |          |
| 15                       | 64QAM      | 36      | 0         | 20.40                 | 20.34                    | 20.30                  |                     |          |                     |          |
| 15                       | 64QAM      | 36      | 20        | 20.35                 | 20.37                    | 20.46                  | 21.5                | 3        |                     |          |
| 15                       | 64QAM      | 36      | 39        | 20.33                 | 20.34                    | 20.34                  |                     |          |                     |          |
| 15                       | 64QAM      | 75      | 0         | 20.49                 | 20.43                    | 20.40                  |                     |          |                     |          |
| 15                       | 256QAM     | 1       | 0         | 18.09                 | 18.06                    | 18.02                  | 19.5                | 5        |                     |          |
| 15                       | 256QAM     | 1       | 37        | 18.23                 | 18.10                    | 17.95                  |                     |          |                     |          |
| 15                       | 256QAM     | 1       | 74        | 18.02                 | 18.09                    | 18.01                  |                     |          |                     |          |
| 15                       | 256QAM     | 36      | 0         | 18.27                 | 18.15                    | 18.20                  | 19.5                | 5        |                     |          |
| 15                       | 256QAM     | 36      | 20        | 18.31                 | 18.29                    | 18.24                  |                     |          |                     |          |
| 15                       | 256QAM     | 36      | 39        | 18.26                 | 18.22                    | 18.13                  |                     |          |                     |          |
| 15                       | 256QAM     | 75      | 0         | 18.28                 | 18.31                    | 18.26                  |                     |          |                     |          |
| Channel                  |            |         |           | 37600                 | 38000                    | 38200                  | Tune-up limit (dbm) | MPR (db) |                     |          |
| Frequency (MHz)          |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |                     |          |
| 10                       | QPSK       | 1       | 0         | 23.32                 | 23.09                    | 23.22                  | 24.5                | 0        |                     |          |
| 10                       | QPSK       | 1       | 25        | 23.21                 | 23.10                    | 23.17                  |                     |          |                     |          |
| 10                       | QPSK       | 1       | 49        | 23.33                 | 23.25                    | 23.22                  |                     |          |                     |          |
| 10                       | QPSK       | 25      | 0         | 22.41                 | 22.39                    | 22.27                  | 23.5                | 1        |                     |          |
| 10                       | QPSK       | 25      | 12        | 22.36                 | 22.34                    | 22.20                  |                     |          |                     |          |
| 10                       | QPSK       | 25      | 25        | 22.35                 | 22.40                    | 22.35                  |                     |          |                     |          |
| 10                       | QPSK       | 50      | 0         | 22.45                 | 22.37                    | 22.25                  | 23.5                | 1        |                     |          |
| 10                       | 16QAM      | 1       | 0         | 22.46                 | 22.30                    | 22.27                  |                     |          |                     |          |
| 10                       | 16QAM      | 1       | 25        | 22.35                 | 22.24                    | 22.23                  |                     |          |                     |          |
| 10                       | 16QAM      | 1       | 49        | 22.29                 | 22.34                    | 22.23                  | 22.5                | 2        |                     |          |
| 10                       | 16QAM      | 25      | 0         | 21.46                 | 21.31                    | 21.30                  |                     |          |                     |          |
| 10                       | 16QAM      | 25      | 12        | 21.38                 | 21.40                    | 21.28                  |                     |          |                     |          |
| 10                       | 16QAM      | 25      | 25        | 21.38                 | 21.35                    | 21.27                  | 22.5                | 2        |                     |          |
| 10                       | 16QAM      | 50      | 0         | 21.46                 | 21.43                    | 21.36                  |                     |          |                     |          |
| 10                       | 64QAM      | 1       | 0         | 21.27                 | 21.17                    | 21.35                  |                     |          |                     |          |
| 10                       | 64QAM      | 1       | 25        | 21.05                 | 21.49                    | 21.39                  | 22.5                | 2        |                     |          |
| 10                       | 64QAM      | 1       | 49        | 21.51                 | 21.51                    | 21.50                  |                     |          |                     |          |
| 10                       | 64QAM      | 25      | 0         | 20.39                 | 20.38                    | 20.28                  |                     |          |                     |          |
| 10                       | 64QAM      | 25      | 12        | 20.34                 | 20.33                    | 20.31                  | 21.5                | 3        |                     |          |
| 10                       | 64QAM      | 25      | 25        | 20.30                 | 20.28                    | 20.27                  |                     |          |                     |          |
| 10                       | 64QAM      | 50      | 0         | 20.37                 | 20.25                    | 20.24                  |                     |          |                     |          |
| 10                       | 256QAM     | 1       | 0         | 18.21                 | 17.97                    | 18.06                  | 19.5                | 5        |                     |          |
| 10                       | 256QAM     | 1       | 25        | 18.09                 | 17.99                    | 18.04                  |                     |          |                     |          |
| 10                       | 256QAM     | 1       | 49        | 18.24                 | 18.20                    | 18.08                  |                     |          |                     |          |
| 10                       | 256QAM     | 25      | 0         | 18.27                 | 18.34                    | 18.16                  | 19.5                | 5        |                     |          |
| 10                       | 256QAM     | 25      | 12        | 18.29                 | 18.14                    | 18.09                  |                     |          |                     |          |
| 10                       | 256QAM     | 25      | 25        | 18.17                 | 18.20                    | 18.22                  |                     |          |                     |          |
| 10                       | 256QAM     | 50      | 0         | 18.30                 | 18.29                    | 18.16                  |                     |          |                     |          |
| Channel                  |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dbm) | MPR (db) |                     |          |
| Frequency (MHz)          |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |                     |          |
| 5                        | QPSK       | 1       | 0         | 23.24                 | 23.29                    | 23.18                  | 24.5                | 0        |                     |          |
| 5                        | QPSK       | 1       | 12        | 23.23                 | 23.38                    | 23.34                  |                     |          |                     |          |
| 5                        | QPSK       | 1       | 24        | 23.31                 | 23.34                    | 23.34                  |                     |          |                     |          |
| 5                        | QPSK       | 12      | 0         | 22.33                 | 22.44                    | 22.37                  | 23.5                | 1        |                     |          |
| 5                        | QPSK       | 12      | 7         | 22.51                 | 22.43                    | 22.32                  |                     |          |                     |          |
| 5                        | QPSK       | 12      | 13        | 22.46                 | 22.45                    | 22.37                  |                     |          |                     |          |
| 5                        | QPSK       | 25      | 0         | 22.46                 | 22.40                    | 22.35                  | 23.5                | 1        |                     |          |
| 5                        | 16QAM      | 1       | 0         | 22.42                 | 22.42                    | 22.48                  |                     |          |                     |          |
| 5                        | 16QAM      | 1       | 12        | 22.56                 | 22.16                    | 22.31                  |                     |          |                     |          |
| 5                        | 16QAM      | 1       | 24        | 22.23                 | 22.46                    | 22.39                  | 22.5                | 2        |                     |          |
| 5                        | 16QAM      | 12      | 0         | 21.46                 | 21.41                    | 21.29                  |                     |          |                     |          |
| 5                        | 16QAM      | 12      | 7         | 21.56                 | 21.46                    | 21.26                  |                     |          |                     |          |
| 5                        | 16QAM      | 12      | 13        | 21.39                 | 21.49                    | 21.34                  | 22.5                | 2        |                     |          |
| 5                        | 16QAM      | 25      | 0         | 21.41                 | 21.47                    | 21.29                  |                     |          |                     |          |
| 5                        | 64QAM      | 1       | 0         | 21.40                 | 21.52                    | 21.09                  |                     |          |                     |          |
| 5                        | 64QAM      | 1       | 12        | 21.43                 | 21.32                    | 21.29                  | 22.5                | 2        |                     |          |
| 5                        | 64QAM      | 1       | 24        | 21.40                 | 21.19                    | 21.31                  |                     |          |                     |          |
| 5                        | 64QAM      | 12      | 0         | 20.47                 | 20.43                    | 20.39                  |                     |          |                     |          |
| 5                        | 64QAM      | 12      | 7         | 20.38                 | 20.34                    | 20.42                  | 21.5                | 3        |                     |          |
| 5                        | 64QAM      | 12      | 13        | 20.52                 | 20.41                    | 20.33                  |                     |          |                     |          |
| 5                        | 64QAM      | 25      | 0         | 20.51                 | 20.36                    | 20.31                  | 19.5                | 5        |                     |          |
| 5                        | 256QAM     | 1       | 0         | 18.16                 | 18.18                    | 18.11                  |                     |          |                     |          |
| 5                        | 256QAM     | 1       | 12        | 18.11                 | 18.25                    | 18.28                  |                     |          |                     |          |
| 5                        | 256QAM     | 1       | 24        | 18.21                 | 18.20                    | 18.27                  | 19.5                | 5        |                     |          |
| 5                        | 256QAM     | 12      | 0         | 18.28                 | 18.31                    | 18.26                  |                     |          |                     |          |
| 5                        | 256QAM     | 12      | 7         | 18.42                 | 18.29                    | 18.18                  |                     |          |                     |          |
| 5                        | 256QAM     | 12      | 13        | 18.37                 | 18.37                    | 18.32                  | 19.5                | 5        |                     |          |
| 5                        | 256QAM     | 25      | 0         | 18.32                 | 18.34                    | 18.21                  |                     |          |                     |          |



Ant3 Down power DSI 1/5

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                 | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel      | 1850.2                    | 1860  | 1909.8 |                           | 1850.2                    | 1860  | 1909.8 |                           |
| Frequency (MHz) | 1850.2                    | 1860  | 1909.8 |                           | 1850.2                    | 1860  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.04                     | 27.31 | 27.13  | 28.50                     | 18.04                     | 18.31 | 18.13  | 19.50                     |
| GPRS 1 Tx slot  | 27.12                     | 27.21 | 27.07  | 28.50                     | 18.12                     | 18.21 | 18.07  | 19.50                     |
| GPRS 2 Tx slots | 23.73                     | 23.73 | 23.56  | 25.50                     | 17.73                     | 17.73 | 17.56  | 19.50                     |
| GPRS 3 Tx slots | 21.70                     | 21.76 | 21.74  | 23.70                     | 17.44                     | 17.50 | 17.48  | 19.44                     |
| GPRS 4 Tx slots | 21.43                     | 21.47 | 21.31  | 22.50                     | 18.43                     | 18.47 | 18.31  | 19.50                     |
| EDGE 1 Tx slot  | 22.54                     | 22.62 | 22.80  | 23.98                     | 13.54                     | 13.62 | 13.80  | 14.98                     |
| EDGE 2 Tx slots | 19.39                     | 19.54 | 19.75  | 20.98                     | 13.39                     | 13.54 | 13.75  | 14.98                     |
| EDGE 3 Tx slots | 17.50                     | 17.70 | 17.92  | 19.16                     | 13.24                     | 13.44 | 13.66  | 14.90                     |
| EDGE 4 Tx slots | 16.24                     | 16.58 | 16.84  | 17.98                     | 13.24                     | 13.58 | 13.84  | 14.98                     |

Ant3 Down power DSI 1/5

Ant3 Down power DSI 3

Ant3 Down power DSI 4

Ant3 Down power DSI 1/5

Ant3 Down power DSI 3/4

| Band            | WCDMA II           |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|--------------------|-------|--------|---------------------------|----------|-------|--------|---------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|----------|--------|--------|---------------------------|-------|
|                 | 9262               | 9400  | 9538   |                           | 9262     | 9400  | 9538   |                           | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 1312     | 1413   | 1513   |                           |       |
| TX Channel      | 9662               | 9800  | 9938   |                           | 9662     | 9800  | 9938   |                           | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 1537     | 1638   | 1738   |                           |       |
| Rx Channel      | 9662               | 9800  | 9938   |                           | 9662     | 9800  | 9938   |                           | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 1537     | 1638   | 1738   |                           |       |
| Frequency (MHz) | 1852.4             | 1860  | 1907.6 |                           | 1852.4   | 1860  | 1907.6 |                           | 1852.4   | 1860  | 1907.6 |                           | 1722.4   | 1724.2 | 1726.6 |                           | 1722.4   | 1724.2 | 1726.6 |                           |       |
| 3GPP Rel 99     | AMR 12.2kbps       | 17.07 | 17.06  | 16.98                     | 17.50    | 19.07 | 19.07  | 18.99                     | 19.50    | 19.90 | 19.91  | 19.83                     | 20.50    | 17.08  | 17.17  | 16.98                     | 17.50    | 21.14  | 21.15  | 21.01                     | 21.50 |
| 3GPP Rel 99     | RMC 12.2kbps       | 17.09 | 17.16  | 17.15                     | 17.50    | 19.08 | 19.09  | 19.01                     | 19.50    | 19.90 | 19.92  | 19.82                     | 20.50    | 17.10  | 17.18  | 17.00                     | 17.50    | 21.15  | 21.17  | 21.02                     | 21.50 |
| 3GPP Rel 6      | HSUPA Subtest-1    | 16.04 | 15.96  | 15.95                     | 16.50    | 18.01 | 18.08  | 17.93                     | 18.50    | 19.14 | 19.12  | 18.84                     | 19.50    | 15.99  | 16.26  | 16.10                     | 16.50    | 19.93  | 20.33  | 20.06                     | 20.50 |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.77 | 15.86  | 15.75                     | 16.50    | 17.88 | 17.86  | 17.83                     | 18.50    | 18.70 | 18.90  | 18.67                     | 19.50    | 15.95  | 16.27  | 15.83                     | 16.50    | 19.95  | 20.36  | 19.75                     | 20.50 |
| 3GPP Rel 6      | HSUPA Subtest-3    | 15.50 | 15.27  | 15.49                     | 16.00    | 17.58 | 17.12  | 17.45                     | 18.00    | 18.71 | 18.24  | 18.52                     | 19.00    | 15.62  | 15.83  | 15.69                     | 16.00    | 19.82  | 19.75  | 19.63                     | 20.00 |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.55 | 15.44  | 15.44                     | 16.00    | 17.58 | 17.46  | 17.44                     | 18.00    | 18.66 | 18.54  | 18.29                     | 19.00    | 15.62  | 15.69  | 15.68                     | 16.00    | 19.58  | 19.70  | 19.67                     | 20.00 |
| 3GPP Rel 6      | DC-HSDPA Subtest-1 | 16.01 | 15.84  | 15.87                     | 16.50    | 17.97 | 17.95  | 17.91                     | 18.50    | 18.95 | 18.76  | 18.78                     | 19.50    | 15.95  | 16.24  | 16.12                     | 16.50    | 19.99  | 20.15  | 20.13                     | 20.50 |
| 3GPP Rel 6      | DC-HSDPA Subtest-2 | 15.86 | 15.86  | 15.69                     | 16.50    | 17.79 | 17.91  | 17.79                     | 18.50    | 18.84 | 19.01  | 18.67                     | 19.50    | 15.87  | 16.21  | 15.76                     | 16.50    | 19.84  | 20.19  | 19.71                     | 20.50 |
| 3GPP Rel 6      | DC-HSDPA Subtest-3 | 15.41 | 15.21  | 15.34                     | 16.00    | 17.57 | 17.10  | 17.49                     | 18.00    | 18.82 | 17.95  | 18.38                     | 19.00    | 15.52  | 15.72  | 15.59                     | 16.00    | 19.45  | 19.76  | 19.56                     | 20.00 |
| 3GPP Rel 6      | DC-HSDPA Subtest-4 | 15.38 | 15.31  | 15.32                     | 16.00    | 17.43 | 17.45  | 17.37                     | 18.00    | 18.63 | 18.53  | 18.21                     | 19.00    | 15.55  | 15.72  | 15.56                     | 16.00    | 19.45  | 19.73  | 19.55                     | 20.00 |
| 3GPP Rel 6      | HSUPA Subtest-1    | 16.08 | 16.07  | 15.90                     | 16.50    | 17.99 | 17.91  | 17.86                     | 18.50    | 19.15 | 19.00  | 18.90                     | 19.50    | 16.04  | 16.24  | 16.05                     | 16.50    | 19.99  | 20.15  | 19.98                     | 20.50 |
| 3GPP Rel 6      | HSUPA Subtest-2    | 14.01 | 14.00  | 13.85                     | 14.50    | 15.99 | 15.99  | 15.89                     | 16.50    | 17.13 | 16.95  | 17.01                     | 17.50    | 14.24  | 14.22  | 14.12                     | 14.50    | 16.19  | 16.12  | 17.97                     | 18.50 |
| 3GPP Rel 6      | HSUPA Subtest-3    | 15.05 | 14.91  | 14.79                     | 15.50    | 16.99 | 16.96  | 16.96                     | 17.50    | 18.09 | 18.12  | 17.91                     | 18.50    | 15.09  | 15.18  | 15.10                     | 15.50    | 19.19  | 19.18  | 19.11                     | 19.50 |
| 3GPP Rel 6      | HSUPA Subtest-4    | 13.94 | 14.03  | 14.00                     | 14.50    | 15.98 | 16.01  | 15.95                     | 16.50    | 16.78 | 17.08  | 16.89                     | 17.50    | 14.25  | 14.24  | 14.11                     | 14.50    | 16.22  | 16.17  | 18.05                     | 18.50 |
| 3GPP Rel 6      | HSUPA Subtest-5    | 16.05 | 15.83  | 15.80                     | 16.50    | 18.03 | 18.01  | 17.94                     | 18.50    | 18.89 | 19.16  | 18.98                     | 19.50    | 16.11  | 16.22  | 15.97                     | 16.50    | 20.02  | 20.16  | 19.95                     | 20.50 |

| Ant3 Band 4 Down power / DSI 1/5 |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
|----------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|--|--|--|--|--|--|
| BW (MHz)                         | Modulation | RB Size | RE Offset | Power Low Ch./Freq. | Power Mid Ch./Freq. | Power High Ch./Freq. | Turn-up time (sec) | MFR (dB) |  |  |  |  |  |  |
| Channel                          |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                  |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| 20                               | QPSK       | 1       | 0         | 17.32               | 17.40               | 17.34                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | QPSK       | 1       | 49        | 17.13               | 17.17               | 17.15                |                    |          |  |  |  |  |  |  |
| 20                               | QPSK       | 1       | 99        | 17.10               | 17.20               | 17.07                |                    |          |  |  |  |  |  |  |
| 20                               | QPSK       | 50      | 0         | 17.31               | 17.40               | 17.31                |                    |          |  |  |  |  |  |  |
| 20                               | QPSK       | 50      | 24        | 17.37               | 17.37               | 17.35                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | QPSK       | 50      | 50        | 17.17               | 17.11               | 16.91                |                    |          |  |  |  |  |  |  |
| 20                               | QPSK       | 100     | 0         | 17.06               | 17.27               | 17.13                |                    |          |  |  |  |  |  |  |
| 20                               | 16QAM      | 50      | 0         | 17.45               | 17.35               | 17.45                |                    |          |  |  |  |  |  |  |
| 20                               | 16QAM      | 1       | 49        | 17.31               | 17.33               | 17.26                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | 16QAM      | 1       | 99        | 17.02               | 17.14               | 16.96                |                    |          |  |  |  |  |  |  |
| 20                               | 16QAM      | 50      | 0         | 17.23               | 17.25               | 17.25                |                    |          |  |  |  |  |  |  |
| 20                               | 16QAM      | 50      | 24        | 17.10               | 17.02               | 17.31                |                    |          |  |  |  |  |  |  |
| 20                               | 16QAM      | 50      | 50        | 17.13               | 16.93               | 17.01                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | 16QAM      | 100     | 0         | 17.14               | 17.23               | 17.26                |                    |          |  |  |  |  |  |  |
| 20                               | 64QAM      | 1       | 0         | 17.47               | 17.36               | 17.39                |                    |          |  |  |  |  |  |  |
| 20                               | 64QAM      | 1       | 49        | 17.41               | 17.34               | 17.26                |                    |          |  |  |  |  |  |  |
| 20                               | 64QAM      | 50      | 0         | 17.28               | 17.22               | 17.07                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | 64QAM      | 50      | 24        | 17.28               | 17.13               | 17.12                |                    |          |  |  |  |  |  |  |
| 20                               | 64QAM      | 50      | 50        | 16.95               | 17.15               | 17.17                |                    |          |  |  |  |  |  |  |
| 20                               | 64QAM      | 100     | 0         | 17.31               | 17.10               | 17.02                |                    |          |  |  |  |  |  |  |
| 20                               | 256QAM     | 1       | 49        | 17.37               | 17.37               | 17.20                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | 256QAM     | 1       | 99        | 17.44               | 17.13               | 17.27                |                    |          |  |  |  |  |  |  |
| 20                               | 256QAM     | 50      | 0         | 17.35               | 17.35               | 17.25                |                    |          |  |  |  |  |  |  |
| 20                               | 256QAM     | 50      | 24        | 17.53               | 17.38               | 17.24                |                    |          |  |  |  |  |  |  |
| 20                               | 256QAM     | 50      | 50        | 17.46               | 17.23               | 17.19                | 17.9               | 0        |  |  |  |  |  |  |
| 20                               | 256QAM     | 100     | 0         | 17.15               | 17.24               | 17.25                |                    |          |  |  |  |  |  |  |
| Channel                          |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                  |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| 16                               | QPSK       | 1       | 0         | 17.32               | 17.10               | 17.09                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | QPSK       | 1       | 37        | 17.16               | 17.16               | 16.94                |                    |          |  |  |  |  |  |  |
| 16                               | QPSK       | 1       | 74        | 17.05               | 16.90               | 16.89                |                    |          |  |  |  |  |  |  |
| 16                               | QPSK       | 36      | 0         | 17.33               | 17.03               | 17.24                |                    |          |  |  |  |  |  |  |
| 16                               | QPSK       | 36      | 1         | 17.22               | 17.23               | 17.22                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | QPSK       | 36      | 39        | 17.18               | 16.93               | 17.19                |                    |          |  |  |  |  |  |  |
| 16                               | QPSK       | 75      | 0         | 17.43               | 17.10               | 17.16                |                    |          |  |  |  |  |  |  |
| 16                               | 16QAM      | 1       | 37        | 17.33               | 17.31               | 17.40                |                    |          |  |  |  |  |  |  |
| 16                               | 16QAM      | 1       | 37        | 17.25               | 17.40               | 17.23                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | 16QAM      | 1       | 74        | 17.06               | 17.14               | 17.28                |                    |          |  |  |  |  |  |  |
| 16                               | 16QAM      | 36      | 0         | 17.31               | 17.25               | 17.15                |                    |          |  |  |  |  |  |  |
| 16                               | 16QAM      | 36      | 20        | 17.30               | 17.14               | 17.22                |                    |          |  |  |  |  |  |  |
| 16                               | 16QAM      | 36      | 20        | 17.30               | 17.14               | 17.22                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | 16QAM      | 75      | 0         | 17.30               | 17.16               | 17.13                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 1       | 0         | 17.35               | 17.39               | 17.34                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 1       | 37        | 17.35               | 17.39               | 17.39                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 1       | 74        | 17.06               | 17.40               | 17.11                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | 64QAM      | 36      | 0         | 17.18               | 17.32               | 17.37                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 36      | 20        | 17.26               | 17.38               | 17.39                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 36      | 39        | 17.22               | 17.15               | 17.15                |                    |          |  |  |  |  |  |  |
| 16                               | 64QAM      | 75      | 0         | 17.34               | 17.07               | 17.21                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | 256QAM     | 1       | 0         | 17.46               | 17.07               | 17.21                |                    |          |  |  |  |  |  |  |
| 16                               | 256QAM     | 1       | 37        | 17.28               | 17.25               | 17.27                |                    |          |  |  |  |  |  |  |
| 16                               | 256QAM     | 1       | 74        | 17.23               | 17.07               | 17.16                |                    |          |  |  |  |  |  |  |
| 16                               | 256QAM     | 36      | 0         | 17.35               | 17.35               | 17.26                | 17.9               | 0        |  |  |  |  |  |  |
| 16                               | 256QAM     | 36      | 20        | 17.35               | 17.25               | 17.34                |                    |          |  |  |  |  |  |  |
| 16                               | 256QAM     | 36      | 39        | 17.46               | 17.20               | 17.12                |                    |          |  |  |  |  |  |  |
| 16                               | 256QAM     | 75      | 0         | 17.18               | 17.38               | 17.34                |                    |          |  |  |  |  |  |  |
| Channel                          |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                  |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| 10                               | QPSK       | 1       | 0         | 17.15               | 17.15               | 17.00                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | QPSK       | 1       | 25        | 17.22               | 17.01               | 17.09                |                    |          |  |  |  |  |  |  |
| 10                               | QPSK       | 1       | 49        | 17.10               | 16.99               | 16.94                |                    |          |  |  |  |  |  |  |
| 10                               | QPSK       | 25      | 0         | 17.07               | 17.07               | 17.07                |                    |          |  |  |  |  |  |  |
| 10                               | QPSK       | 25      | 12        | 17.07               | 17.07               | 17.08                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | QPSK       | 25      | 25        | 17.20               | 17.04               | 17.09                |                    |          |  |  |  |  |  |  |
| 10                               | QPSK       | 50      | 0         | 17.16               | 17.16               | 17.11                |                    |          |  |  |  |  |  |  |
| 10                               | 16QAM      | 1       | 0         | 17.42               | 17.42               | 17.30                |                    |          |  |  |  |  |  |  |
| 10                               | 16QAM      | 1       | 25        | 17.36               | 17.31               | 17.09                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | 16QAM      | 1       | 49        | 17.30               | 17.10               | 17.09                |                    |          |  |  |  |  |  |  |
| 10                               | 16QAM      | 25      | 0         | 17.26               | 17.06               | 16.97                |                    |          |  |  |  |  |  |  |
| 10                               | 16QAM      | 25      | 12        | 17.13               | 17.09               | 17.25                |                    |          |  |  |  |  |  |  |
| 10                               | 16QAM      | 50      | 0         | 17.45               | 17.16               | 17.25                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | 16QAM      | 50      | 24        | 17.37               | 17.04               | 17.02                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 1       | 0         | 16.94               | 17.13               | 17.34                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 1       | 24        | 17.35               | 17.16               | 17.34                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 1       | 49        | 17.29               | 17.33               | 17.14                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | 64QAM      | 25      | 0         | 17.19               | 17.16               | 17.11                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 25      | 12        | 17.43               | 17.15               | 17.25                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 25      | 25        | 17.13               | 17.16               | 17.25                |                    |          |  |  |  |  |  |  |
| 10                               | 64QAM      | 50      | 0         | 17.11               | 17.12               | 17.11                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | 256QAM     | 1       | 0         | 17.36               | 17.36               | 17.20                |                    |          |  |  |  |  |  |  |
| 10                               | 256QAM     | 1       | 25        | 17.44               | 17.36               | 17.11                |                    |          |  |  |  |  |  |  |
| 10                               | 256QAM     | 1       | 49        | 17.36               | 17.22               | 17.09                |                    |          |  |  |  |  |  |  |
| 10                               | 256QAM     | 25      | 0         | 17.31               | 17.25               | 16.95                | 17.9               | 0        |  |  |  |  |  |  |
| 10                               | 256QAM     | 25      | 12        | 17.30               | 17.26               | 17.19                |                    |          |  |  |  |  |  |  |
| 10                               | 256QAM     | 25      | 25        | 17.36               | 17.11               | 17.19                |                    |          |  |  |  |  |  |  |
| 10                               | 256QAM     | 50      | 0         | 17.28               | 17.41               | 17.13                |                    |          |  |  |  |  |  |  |
| Channel                          |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                  |            |         |           |                     |                     |                      |                    |          |  |  |  |  |  |  |
| 5                                | QPSK       | 1       | 0         | 17.15               | 17.15               | 17.00                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | QPSK       | 1       | 12        | 17.14               | 17.12               | 17.05                |                    |          |  |  |  |  |  |  |
| 5                                | QPSK       | 1       | 24        | 17.24               | 17.05               | 16.97                |                    |          |  |  |  |  |  |  |
| 5                                | QPSK       | 12      | 0         | 17.11               | 17.13               | 17.08                |                    |          |  |  |  |  |  |  |
| 5                                | QPSK       | 12      | 7         | 17.32               | 17.20               | 17.21                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | QPSK       | 12      | 13        | 17.15               | 17.21               | 16.93                |                    |          |  |  |  |  |  |  |
| 5                                | QPSK       | 25      | 0         | 17.12               | 17.13               | 17.01                |                    |          |  |  |  |  |  |  |
| 5                                | 16QAM      | 1       | 0         | 17.28               | 17.32               | 17.12                |                    |          |  |  |  |  |  |  |
| 5                                | 16QAM      | 1       | 12        | 17.34               | 17.33               | 17.32                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | 16QAM      | 1       | 24        | 17.33               | 17.37               | 17.39                |                    |          |  |  |  |  |  |  |
| 5                                | 16QAM      | 12      | 0         | 17.33               | 17.19               | 17.01                |                    |          |  |  |  |  |  |  |
| 5                                | 16QAM      | 12      | 7         | 17.27               | 17.37               | 17.06                |                    |          |  |  |  |  |  |  |
| 5                                | 16QAM      | 12      | 13        | 17.42               | 17.09               | 17.19                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | 16QAM      | 25      | 0         | 17.28               | 17.11               | 17.06                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 1       | 0         | 17.33               | 17.16               | 17.12                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 1       | 12        | 17.41               | 17.40               | 17.33                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 1       | 24        | 17.32               | 17.33               | 17.15                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | 64QAM      | 12      | 0         | 17.24               | 17.28               | 17.06                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 12      | 7         | 17.39               | 17.26               | 17.29                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 12      | 13        | 17.28               | 17.23               | 17.04                |                    |          |  |  |  |  |  |  |
| 5                                | 64QAM      | 25      | 0         | 17.24               | 17.16               | 17.13                | 17.9               | 0        |  |  |  |  |  |  |
| 5                                | 256QAM     | 1       | 0         | 17.39               | 17.25               | 17.19                |                    |          |  |  |  |  |  |  |
| 5                                | 256QAM     | 1       | 12        | 17.22               | 17.44               | 17.24                |                    |          |  |  |  |  |  |  |
| 5                                | 256QAM     | 1       | 24        | 17.30               | 17.23               | 17.26                |                    |          |  |  |  |  |  |  |
| 5                                | 256QAM     | 12      | 0         | 17.67               | 17.29               | 17.18                |                    |          |  |  |  |  |  |  |

| Ant3 Band 7 Down power / DSI 4 |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
|--------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|--------------|----------|--|--|--|--|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Turn-up (dB) | MPR (dB) |  |  |  |  |  |  |
| Channel                        |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| 20                             | QPSK       | 1       | 0         | 18.97                | 19.38                   | 19.13                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | QPSK       | 1       | 49        | 18.89                | 19.02                   | 19.20                 |              |          |  |  |  |  |  |  |
| 20                             | QPSK       | 1       | 99        | 18.97                | 19.14                   | 19.30                 |              |          |  |  |  |  |  |  |
| 20                             | QPSK       | 50      | 0         | 19.02                | 19.30                   | 19.33                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | QPSK       | 50      | 24        | 19.20                | 19.03                   | 19.12                 |              |          |  |  |  |  |  |  |
| 20                             | QPSK       | 50      | 50        | 19.08                | 19.14                   | 19.19                 |              |          |  |  |  |  |  |  |
| 20                             | QPSK       | 100     | 0         | 19.22                | 19.33                   | 19.31                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | 16QAM      | 1       | 0         | 19.09                | 19.12                   | 19.26                 |              |          |  |  |  |  |  |  |
| 20                             | 16QAM      | 1       | 49        | 19.10                | 19.11                   | 19.26                 |              |          |  |  |  |  |  |  |
| 20                             | 16QAM      | 1       | 99        | 19.03                | 19.32                   | 19.02                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | 16QAM      | 50      | 0         | 19.15                | 19.07                   | 19.17                 |              |          |  |  |  |  |  |  |
| 20                             | 16QAM      | 50      | 24        | 19.30                | 19.20                   | 19.30                 |              |          |  |  |  |  |  |  |
| 20                             | 16QAM      | 50      | 50        | 19.17                | 19.10                   | 19.34                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | 16QAM      | 100     | 0         | 19.21                | 19.02                   | 19.35                 |              |          |  |  |  |  |  |  |
| 20                             | 64QAM      | 1       | 0         | 19.16                | 19.21                   | 19.30                 |              |          |  |  |  |  |  |  |
| 20                             | 64QAM      | 1       | 49        | 19.00                | 19.22                   | 19.31                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | 64QAM      | 1       | 99        | 19.19                | 19.25                   | 19.22                 |              |          |  |  |  |  |  |  |
| 20                             | 64QAM      | 50      | 0         | 19.14                | 19.04                   | 19.05                 |              |          |  |  |  |  |  |  |
| 20                             | 64QAM      | 50      | 24        | 19.13                | 19.24                   | 19.37                 | 20.5         | 0        |  |  |  |  |  |  |
| 20                             | 64QAM      | 50      | 50        | 19.23                | 19.03                   | 19.31                 |              |          |  |  |  |  |  |  |
| 20                             | 64QAM      | 100     | 0         | 19.16                | 19.02                   | 19.31                 |              |          |  |  |  |  |  |  |
| 20                             | 256QAM     | 1       | 0         | 17.76                | 18.02                   | 17.81                 | 19.5         | 1        |  |  |  |  |  |  |
| 20                             | 256QAM     | 1       | 49        | 17.81                | 18.00                   | 17.92                 |              |          |  |  |  |  |  |  |
| 20                             | 256QAM     | 1       | 99        | 17.88                | 17.84                   | 17.84                 |              |          |  |  |  |  |  |  |
| 20                             | 256QAM     | 50      | 0         | 18.13                | 18.00                   | 18.26                 | 19.5         | 1        |  |  |  |  |  |  |
| 20                             | 256QAM     | 50      | 24        | 18.03                | 17.88                   | 18.24                 |              |          |  |  |  |  |  |  |
| 20                             | 256QAM     | 50      | 50        | 18.03                | 18.26                   | 18.19                 |              |          |  |  |  |  |  |  |
| 20                             | 256QAM     | 100     | 0         | 18.07                | 18.20                   | 18.10                 | Turn-up (dB) | MPR (dB) |  |  |  |  |  |  |
| Channel                        |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| 15                             | QPSK       | 1       | 0         | 18.84                | 18.90                   | 19.12                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | QPSK       | 1       | 37        | 19.00                | 18.86                   | 19.01                 |              |          |  |  |  |  |  |  |
| 15                             | QPSK       | 1       | 74        | 19.06                | 19.18                   | 19.78                 |              |          |  |  |  |  |  |  |
| 15                             | QPSK       | 36      | 0         | 19.01                | 18.90                   | 19.13                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | QPSK       | 36      | 36        | 19.27                | 19.10                   | 19.09                 |              |          |  |  |  |  |  |  |
| 15                             | QPSK       | 36      | 39        | 19.13                | 19.05                   | 19.18                 |              |          |  |  |  |  |  |  |
| 15                             | QPSK       | 75      | 0         | 19.09                | 19.12                   | 19.17                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | 16QAM      | 1       | 0         | 19.08                | 18.86                   | 19.29                 |              |          |  |  |  |  |  |  |
| 15                             | 16QAM      | 1       | 37        | 19.21                | 18.92                   | 19.21                 |              |          |  |  |  |  |  |  |
| 15                             | 16QAM      | 36      | 0         | 19.26                | 19.20                   | 19.14                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | 16QAM      | 36      | 36        | 19.10                | 19.34                   | 19.17                 |              |          |  |  |  |  |  |  |
| 15                             | 16QAM      | 36      | 20        | 19.12                | 19.29                   | 19.17                 |              |          |  |  |  |  |  |  |
| 15                             | 16QAM      | 75      | 0         | 19.22                | 19.20                   | 19.16                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | 16QAM      | 75      | 0         | 19.23                | 19.33                   | 19.21                 |              |          |  |  |  |  |  |  |
| 15                             | 64QAM      | 1       | 0         | 19.11                | 19.37                   | 19.31                 |              |          |  |  |  |  |  |  |
| 15                             | 64QAM      | 1       | 37        | 19.00                | 19.26                   | 19.16                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | 64QAM      | 1       | 74        | 19.08                | 19.34                   | 19.09                 |              |          |  |  |  |  |  |  |
| 15                             | 64QAM      | 36      | 0         | 19.12                | 19.28                   | 19.21                 |              |          |  |  |  |  |  |  |
| 15                             | 64QAM      | 36      | 36        | 19.05                | 19.31                   | 19.23                 | 20.5         | 0        |  |  |  |  |  |  |
| 15                             | 64QAM      | 36      | 39        | 19.10                | 19.22                   | 19.25                 |              |          |  |  |  |  |  |  |
| 15                             | 64QAM      | 75      | 0         | 19.01                | 19.35                   | 19.13                 |              |          |  |  |  |  |  |  |
| 15                             | 256QAM     | 1       | 0         | 18.89                | 19.23                   | 19.26                 | 19.5         | 1        |  |  |  |  |  |  |
| 15                             | 256QAM     | 1       | 37        | 18.87                | 19.12                   | 19.16                 |              |          |  |  |  |  |  |  |
| 15                             | 256QAM     | 1       | 74        | 19.03                | 17.90                   | 17.71                 |              |          |  |  |  |  |  |  |
| 15                             | 256QAM     | 1       | 37        | 17.86                | 17.74                   | 17.68                 | 19.5         | 1        |  |  |  |  |  |  |
| 15                             | 256QAM     | 36      | 0         | 18.95                | 18.97                   | 18.98                 |              |          |  |  |  |  |  |  |
| 15                             | 256QAM     | 36      | 20        | 18.09                | 18.09                   | 18.16                 |              |          |  |  |  |  |  |  |
| 15                             | 256QAM     | 36      | 39        | 17.93                | 17.84                   | 17.91                 | Turn-up (dB) | MPR (dB) |  |  |  |  |  |  |
| 15                             | 256QAM     | 75      | 0         | 18.04                | 18.08                   | 17.84                 |              |          |  |  |  |  |  |  |
| Channel                        |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 0         | 19.12                | 19.40                   | 19.10                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 25        | 19.09                | 19.87                   | 19.16                 |              |          |  |  |  |  |  |  |
| 10                             | QPSK       | 1       | 49        | 19.18                | 18.84                   | 18.83                 |              |          |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 0         | 19.03                | 19.22                   | 19.20                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 12        | 19.09                | 19.04                   | 19.19                 |              |          |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 25        | 19.06                | 19.24                   | 19.32                 |              |          |  |  |  |  |  |  |
| 10                             | QPSK       | 25      | 25        | 19.25                | 19.10                   | 19.28                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 16QAM      | 1       | 0         | 19.06                | 19.10                   | 19.32                 |              |          |  |  |  |  |  |  |
| 10                             | 16QAM      | 1       | 25        | 19.13                | 19.18                   | 19.36                 |              |          |  |  |  |  |  |  |
| 10                             | 16QAM      | 14      | 0         | 19.14                | 19.20                   | 19.30                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 16QAM      | 14      | 14        | 19.20                | 19.16                   | 19.25                 |              |          |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 0         | 19.07                | 19.00                   | 19.34                 |              |          |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 12        | 19.13                | 19.08                   | 19.13                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 16QAM      | 25      | 25        | 19.08                | 19.07                   | 19.16                 |              |          |  |  |  |  |  |  |
| 10                             | 16QAM      | 50      | 0         | 19.16                | 19.07                   | 19.12                 |              |          |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 0         | 19.20                | 19.01                   | 19.11                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 25        | 19.02                | 19.14                   | 19.25                 |              |          |  |  |  |  |  |  |
| 10                             | 64QAM      | 1       | 49        | 19.08                | 19.11                   | 19.36                 |              |          |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 0         | 19.07                | 19.04                   | 19.23                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 12        | 19.25                | 19.21                   | 19.17                 |              |          |  |  |  |  |  |  |
| 10                             | 64QAM      | 25      | 25        | 19.17                | 19.12                   | 19.34                 |              |          |  |  |  |  |  |  |
| 10                             | 64QAM      | 50      | 0         | 19.19                | 19.02                   | 19.30                 | 20.5         | 0        |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 0         | 17.83                | 17.89                   | 18.06                 |              |          |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 25        | 17.72                | 17.90                   | 17.83                 |              |          |  |  |  |  |  |  |
| 10                             | 256QAM     | 1       | 49        | 17.85                | 17.85                   | 17.89                 | 19.5         | 1        |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 0         | 17.97                | 17.89                   | 18.10                 |              |          |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 12        | 17.84                | 17.78                   | 17.86                 |              |          |  |  |  |  |  |  |
| 10                             | 256QAM     | 25      | 25        | 17.81                | 18.12                   | 18.09                 | 19.5         | 1        |  |  |  |  |  |  |
| 10                             | 256QAM     | 50      | 0         | 18.04                | 18.04                   | 18.14                 |              |          |  |  |  |  |  |  |
| Channel                        |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| Frequency (MHz)                |            |         |           |                      |                         |                       |              |          |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 0         | 19.72                | 19.86                   | 19.10                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 12        | 19.07                | 19.10                   | 19.11                 |              |          |  |  |  |  |  |  |
| 5                              | QPSK       | 1       | 24        | 19.18                | 19.08                   | 19.05                 |              |          |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 0         | 19.01                | 19.14                   | 19.21                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 7         | 19.35                | 19.07                   | 19.29                 |              |          |  |  |  |  |  |  |
| 5                              | QPSK       | 12      | 13        | 19.34                | 19.19                   | 19.02                 |              |          |  |  |  |  |  |  |
| 5                              | QPSK       | 25      | 0         | 19.32                | 18.92                   | 19.17                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 0         | 19.17                | 18.94                   | 19.30                 |              |          |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 12        | 19.27                | 19.01                   | 19.25                 |              |          |  |  |  |  |  |  |
| 5                              | 16QAM      | 1       | 24        | 19.26                | 19.20                   | 19.15                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 0         | 19.30                | 19.09                   | 19.18                 |              |          |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 7         | 19.31                | 19.26                   | 19.27                 |              |          |  |  |  |  |  |  |
| 5                              | 16QAM      | 12      | 13        | 19.36                | 19.02                   | 19.25                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 0         | 19.24                | 19.00                   | 19.19                 |              |          |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 0         | 19.27                | 19.16                   | 19.15                 |              |          |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 12        | 19.26                | 19.11                   | 19.26                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | 64QAM      | 1       | 24        | 19.37                | 19.12                   | 19.24                 |              |          |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 0         | 19.31                | 19.05                   | 19.31                 |              |          |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 7         | 19.30                | 19.09                   | 19.32                 | 20.5         | 0        |  |  |  |  |  |  |
| 5                              | 64QAM      | 12      | 13        | 19.33                | 19.08                   | 19.31                 |              |          |  |  |  |  |  |  |
| 5                              | 64QAM      | 25      | 0         | 19.32                | 19.12                   | 19.28                 |              |          |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 0         | 17.72                | 17.89                   | 17.74                 | 19.5         | 1        |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 12        | 17.86                | 17.80                   | 17.87                 |              |          |  |  |  |  |  |  |
| 5                              | 256QAM     | 1       | 24        | 17.83                | 18.08                   | 17.89                 |              |          |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 0         | 17.95                | 17.86                   | 17.92                 | 19.5         | 1        |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 7         | 18.22                | 17.94                   | 18.10                 |              |          |  |  |  |  |  |  |
| 5                              | 256QAM     | 12      | 13        | 18.25                | 17.86                   | 18.07                 |              |          |  |  |  |  |  |  |

| Ant3 Band 38 Down power / DSI 4 |            |         |           |                     |                        |                      |                     |          |  |
|---------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz)                        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                         |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                 |            |         |           | 37650               | 38000                  | 38150                |                     |          |  |
| 20                              | QPSK       | 1       | 0         | 2580                | 2595                   | 2610                 |                     |          |  |
| 20                              | QPSK       | 1       | 49        | 20.35               | 20.45                  | 20.32                | 21.5                | 0        |  |
| 20                              | QPSK       | 1       | 99        | 20.38               | 20.38                  | 20.22                |                     |          |  |
| 20                              | QPSK       | 1       | 99        | 20.33               | 20.14                  | 20.17                |                     |          |  |
| 20                              | QPSK       | 50      | 0         | 20.30               | 20.37                  | 20.20                |                     |          |  |
| 20                              | QPSK       | 50      | 24        | 20.36               | 20.20                  | 20.25                | 21.5                | 0        |  |
| 20                              | QPSK       | 50      | 50        | 20.34               | 20.10                  | 20.18                |                     |          |  |
| 20                              | QPSK       | 100     | 0         | 20.35               | 20.37                  | 20.30                |                     |          |  |
| 20                              | 16QAM      | 1       | 0         | 20.36               | 20.23                  | 20.16                |                     |          |  |
| 20                              | 16QAM      | 1       | 49        | 20.30               | 20.27                  | 20.30                | 21.5                | 0        |  |
| 20                              | 16QAM      | 1       | 99        | 20.20               | 20.22                  | 20.35                |                     |          |  |
| 20                              | 16QAM      | 50      | 0         | 20.28               | 20.37                  | 20.29                |                     |          |  |
| 20                              | 16QAM      | 50      | 24        | 20.36               | 20.24                  | 20.20                |                     |          |  |
| 20                              | 16QAM      | 50      | 50        | 20.43               | 20.22                  | 20.28                | 21.5                | 0        |  |
| 20                              | 16QAM      | 100     | 0         | 20.39               | 20.26                  | 20.34                |                     |          |  |
| 20                              | 64QAM      | 1       | 0         | 20.16               | 19.99                  | 19.98                |                     |          |  |
| 20                              | 64QAM      | 1       | 49        | 20.08               | 19.89                  | 19.88                |                     |          |  |
| 20                              | 64QAM      | 1       | 99        | 19.99               | 20.04                  | 19.90                | 21.5                | 0        |  |
| 20                              | 64QAM      | 50      | 0         | 20.38               | 20.30                  | 20.42                |                     |          |  |
| 20                              | 64QAM      | 50      | 24        | 20.38               | 20.31                  | 20.37                |                     |          |  |
| 20                              | 64QAM      | 50      | 50        | 20.42               | 20.38                  | 20.33                |                     |          |  |
| 20                              | 64QAM      | 100     | 0         | 20.35               | 20.33                  | 20.34                | 19.5                | 2        |  |
| 20                              | 256QAM     | 1       | 0         | 18.40               | 18.16                  | 18.19                |                     |          |  |
| 20                              | 256QAM     | 1       | 49        | 18.16               | 18.02                  | 18.27                |                     |          |  |
| 20                              | 256QAM     | 1       | 99        | 18.22               | 17.98                  | 18.00                |                     |          |  |
| 20                              | 256QAM     | 50      | 0         | 18.35               | 18.54                  | 18.36                | 19.5                | 2        |  |
| 20                              | 256QAM     | 50      | 24        | 18.40               | 18.22                  | 18.28                |                     |          |  |
| 20                              | 256QAM     | 50      | 50        | 18.52               | 18.20                  | 18.28                |                     |          |  |
| 20                              | 256QAM     | 100     | 0         | 18.38               | 18.36                  | 18.39                |                     |          |  |
| 20                              | 256QAM     | 100     | 0         | 17.95               | 18.00                  | 18.15                |                     |          |  |
| Channel                         |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                 |            |         |           | 2577.5              | 2595                   | 2612.5               | Tune-up limit (dBm) | MPR (dB) |  |
| 15                              | QPSK       | 1       | 0         | 20.21               | 20.23                  | 20.33                | 21.5                | 0        |  |
| 15                              | QPSK       | 1       | 37        | 20.35               | 20.13                  | 20.13                |                     |          |  |
| 15                              | QPSK       | 1       | 74        | 20.16               | 20.12                  | 20.13                |                     |          |  |
| 15                              | QPSK       | 36      | 0         | 20.19               | 20.12                  | 20.12                |                     |          |  |
| 15                              | QPSK       | 36      | 20        | 20.34               | 20.21                  | 20.22                | 21.5                | 0        |  |
| 15                              | QPSK       | 36      | 39        | 20.34               | 20.26                  | 20.12                |                     |          |  |
| 15                              | QPSK       | 75      | 0         | 20.26               | 20.26                  | 20.22                |                     |          |  |
| 15                              | 16QAM      | 1       | 0         | 20.28               | 20.16                  | 20.14                |                     |          |  |
| 15                              | 16QAM      | 1       | 37        | 20.07               | 20.12                  | 19.93                | 21.5                | 0        |  |
| 15                              | 16QAM      | 1       | 74        | 20.23               | 20.10                  | 20.12                |                     |          |  |
| 15                              | 16QAM      | 36      | 0         | 20.07               | 20.18                  | 20.23                |                     |          |  |
| 15                              | 16QAM      | 36      | 20        | 20.22               | 20.20                  | 20.28                |                     |          |  |
| 15                              | 16QAM      | 36      | 39        | 20.10               | 20.18                  | 20.13                | 21.5                | 0        |  |
| 15                              | 16QAM      | 75      | 0         | 20.27               | 20.23                  | 20.21                |                     |          |  |
| 15                              | 64QAM      | 1       | 0         | 19.96               | 19.97                  | 20.07                |                     |          |  |
| 15                              | 64QAM      | 1       | 37        | 19.97               | 20.03                  | 19.93                |                     |          |  |
| 15                              | 64QAM      | 1       | 74        | 19.94               | 20.04                  | 19.84                | 21.5                | 0        |  |
| 15                              | 64QAM      | 36      | 0         | 20.40               | 20.29                  | 20.29                |                     |          |  |
| 15                              | 64QAM      | 36      | 20        | 20.36               | 20.33                  | 20.39                |                     |          |  |
| 15                              | 64QAM      | 36      | 39        | 20.29               | 20.37                  | 20.38                |                     |          |  |
| 15                              | 64QAM      | 75      | 0         | 20.44               | 20.41                  | 20.41                | 19.5                | 0        |  |
| 15                              | 256QAM     | 1       | 0         | 17.96               | 18.07                  | 18.14                |                     |          |  |
| 15                              | 256QAM     | 1       | 37        | 18.33               | 18.22                  | 17.97                |                     |          |  |
| 15                              | 256QAM     | 1       | 74        | 18.09               | 18.00                  | 17.92                |                     |          |  |
| 15                              | 256QAM     | 36      | 0         | 18.28               | 18.15                  | 18.21                | 19.5                | 2        |  |
| 15                              | 256QAM     | 36      | 20        | 18.35               | 18.21                  | 18.17                |                     |          |  |
| 15                              | 256QAM     | 36      | 39        | 18.30               | 18.16                  | 18.02                |                     |          |  |
| 15                              | 256QAM     | 75      | 0         | 18.31               | 18.38                  | 18.38                |                     |          |  |
| 15                              | 256QAM     | 75      | 0         | 17.93               | 18.00                  | 18.00                |                     |          |  |
| Channel                         |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                 |            |         |           | 37600               | 38000                  | 38200                | Tune-up limit (dBm) | MPR (dB) |  |
| 10                              | QPSK       | 1       | 0         | 20.31               | 20.07                  | 20.24                | 21.5                | 0        |  |
| 10                              | QPSK       | 1       | 25        | 20.23               | 20.09                  | 20.15                |                     |          |  |
| 10                              | QPSK       | 1       | 49        | 20.35               | 20.25                  | 20.25                |                     |          |  |
| 10                              | QPSK       | 25      | 0         | 20.24               | 20.21                  | 20.12                |                     |          |  |
| 10                              | QPSK       | 25      | 12        | 20.20               | 20.15                  | 20.08                | 21.5                | 0        |  |
| 10                              | QPSK       | 25      | 25        | 20.23               | 20.23                  | 20.17                |                     |          |  |
| 10                              | QPSK       | 50      | 0         | 20.35               | 20.23                  | 20.14                |                     |          |  |
| 10                              | 16QAM      | 1       | 0         | 20.28               | 20.19                  | 20.10                |                     |          |  |
| 10                              | 16QAM      | 1       | 25        | 20.23               | 20.11                  | 20.09                | 21.5                | 0        |  |
| 10                              | 16QAM      | 1       | 49        | 20.13               | 20.20                  | 20.07                |                     |          |  |
| 10                              | 16QAM      | 25      | 0         | 20.32               | 20.19                  | 20.15                |                     |          |  |
| 10                              | 16QAM      | 25      | 12        | 20.21               | 20.31                  | 20.17                |                     |          |  |
| 10                              | 16QAM      | 25      | 25        | 20.26               | 20.16                  | 20.13                | 21.5                | 0        |  |
| 10                              | 16QAM      | 50      | 0         | 20.36               | 20.26                  | 20.25                |                     |          |  |
| 10                              | 64QAM      | 1       | 0         | 20.10               | 20.05                  | 20.21                |                     |          |  |
| 10                              | 64QAM      | 1       | 25        | 19.92               | 20.40                  | 20.21                |                     |          |  |
| 10                              | 64QAM      | 1       | 49        | 20.32               | 20.36                  | 20.30                | 21.5                | 0        |  |
| 10                              | 64QAM      | 25      | 0         | 20.36               | 20.30                  | 20.28                |                     |          |  |
| 10                              | 64QAM      | 25      | 12        | 20.33               | 20.37                  | 20.35                |                     |          |  |
| 10                              | 64QAM      | 25      | 25        | 20.33               | 20.31                  | 20.24                |                     |          |  |
| 10                              | 64QAM      | 50      | 0         | 20.37               | 20.27                  | 20.24                | 19.5                | 2        |  |
| 10                              | 256QAM     | 1       | 0         | 18.18               | 17.97                  | 17.93                |                     |          |  |
| 10                              | 256QAM     | 1       | 25        | 17.98               | 18.04                  | 17.95                |                     |          |  |
| 10                              | 256QAM     | 1       | 49        | 18.13               | 18.15                  | 18.19                |                     |          |  |
| 10                              | 256QAM     | 25      | 0         | 18.19               | 18.45                  | 18.23                | 19.5                | 2        |  |
| 10                              | 256QAM     | 25      | 12        | 18.17               | 18.20                  | 18.17                |                     |          |  |
| 10                              | 256QAM     | 25      | 25        | 18.29               | 18.10                  | 18.10                |                     |          |  |
| 10                              | 256QAM     | 50      | 0         | 18.42               | 18.16                  | 18.15                |                     |          |  |
| 10                              | 256QAM     | 50      | 0         | 17.92               | 18.00                  | 18.00                |                     |          |  |
| Channel                         |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                 |            |         |           | 37775               | 38000                  | 38225                | Tune-up limit (dBm) | MPR (dB) |  |
| 5                               | QPSK       | 1       | 0         | 20.34               | 20.33                  | 20.12                | 21.5                | 0        |  |
| 5                               | QPSK       | 1       | 12        | 20.31               | 20.30                  | 20.41                |                     |          |  |
| 5                               | QPSK       | 1       | 24        | 20.34               | 20.26                  | 20.27                |                     |          |  |
| 5                               | QPSK       | 12      | 0         | 20.21               | 20.29                  | 20.20                |                     |          |  |
| 5                               | QPSK       | 12      | 7         | 20.28               | 20.27                  | 20.19                | 21.5                | 0        |  |
| 5                               | QPSK       | 12      | 13        | 20.27               | 20.26                  | 20.21                |                     |          |  |
| 5                               | QPSK       | 25      | 0         | 20.37               | 20.27                  | 20.23                |                     |          |  |
| 5                               | 16QAM      | 1       | 0         | 20.24               | 20.34                  | 20.37                |                     |          |  |
| 5                               | 16QAM      | 1       | 12        | 20.40               | 19.97                  | 20.18                | 21.5                | 0        |  |
| 5                               | 16QAM      | 1       | 24        | 20.13               | 20.30                  | 20.26                |                     |          |  |
| 5                               | 16QAM      | 12      | 0         | 20.31               | 20.27                  | 20.19                |                     |          |  |
| 5                               | 16QAM      | 12      | 7         | 20.21               | 20.36                  | 20.09                |                     |          |  |
| 5                               | 16QAM      | 12      | 13        | 20.32               | 20.37                  | 20.21                | 21.5                | 0        |  |
| 5                               | 16QAM      | 25      | 0         | 20.29               | 20.33                  | 20.11                |                     |          |  |
| 5                               | 64QAM      | 1       | 0         | 20.26               | 20.37                  | 19.88                |                     |          |  |
| 5                               | 64QAM      | 1       | 12        | 20.24               | 20.22                  | 20.21                |                     |          |  |
| 5                               | 64QAM      | 1       | 24        | 20.26               | 20.03                  | 20.14                | 21.5                | 0        |  |
| 5                               | 64QAM      | 12      | 0         | 20.36               | 20.41                  | 20.37                |                     |          |  |
| 5                               | 64QAM      | 12      | 7         | 20.43               | 20.35                  | 20.40                |                     |          |  |
| 5                               | 64QAM      | 12      | 13        | 20.32               | 20.43                  | 20.36                |                     |          |  |
| 5                               | 64QAM      | 25      | 0         | 20.38               | 20.40                  | 20.34                | 19.5                | 2        |  |
| 5                               | 256QAM     | 1       | 0         | 18.05               | 18.13                  | 18.15                |                     |          |  |
| 5                               | 256QAM     | 1       | 12        | 18.05               | 18.14                  | 18.31                |                     |          |  |
| 5                               | 256QAM     | 1       | 24        | 18.34               | 18.18                  | 18.19                |                     |          |  |
| 5                               | 256QAM     | 12      | 0         | 18.36               | 18.28                  | 18.20                | 19.5                | 2        |  |
| 5                               | 256QAM     | 12      | 7         | 18.54               | 18.28                  | 18.22                |                     |          |  |
| 5                               | 256QAM     | 12      | 13        | 18.30               | 18.37                  | 18.34                |                     |          |  |
| 5                               | 256QAM     | 25      | 0         | 18.41               | 18.46                  | 18.32                |                     |          |  |

| Ant3 Band 38 Down power / DSI 1/5 |            |         |           |                     |                        |                      |                     |          |  |
|-----------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           | 37650               | 38000                  | 38150                |                     |          |  |
|                                   |            |         |           | 2580                | 2595                   | 2610                 |                     |          |  |
| 20                                | QPSK       | 1       | 0         | 16.34               | 16.42                  | 16.30                | 17.5                | 0        |  |
| 20                                | QPSK       | 1       | 49        | 16.41               | 16.34                  | 16.30                |                     |          |  |
| 20                                | QPSK       | 1       | 99        | 16.29               | 16.14                  | 16.17                |                     |          |  |



| Ant 3 Band 41 Down power / DSI 1/5 |            |         |           |                       |                              |                               |                        |                     |          |   |  |  |  |
|------------------------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|---|--|--|--|
| BW [MHz]                           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |   |  |  |  |
| Channel                            |            |         |           | 39750                 | 40185                        | 40620                         | 41055                  | 41490               |          |   |  |  |  |
| Frequency (MHz)                    |            |         |           | 2506                  | 2549.5                       | 2593                          | 2636.5                 | 2680                |          |   |  |  |  |
| 20                                 | QPSK       | 1       | 0         | 16.03                 | 16.18                        | 16.43                         | 16.08                  | 16.15               | 17.5     | 0 |  |  |  |
| 20                                 | QPSK       | 1       | 49        | 16.06                 | 16.15                        | 16.11                         | 16.07                  | 15.97               |          |   |  |  |  |
| 20                                 | QPSK       | 1       | 99        | 16.11                 | 16.24                        | 16.23                         | 16.03                  | 16.02               |          |   |  |  |  |
| 20                                 | QPSK       | 50      | 0         | 16.28                 | 16.25                        | 16.37                         | 16.06                  | 15.98               |          |   |  |  |  |
| 20                                 | QPSK       | 50      | 24        | 16.28                 | 16.33                        | 16.28                         | 16.17                  | 16.07               | 17.5     | 0 |  |  |  |
| 20                                 | QPSK       | 50      | 50        | 16.25                 | 16.32                        | 16.25                         | 16.10                  | 16.01               |          |   |  |  |  |
| 20                                 | QPSK       | 100     | 0         | 16.27                 | 16.30                        | 16.35                         | 16.18                  | 15.96               |          |   |  |  |  |
| 20                                 | 16QAM      | 1       | 0         | 16.19                 | 16.28                        | 16.40                         | 16.35                  | 16.14               |          |   |  |  |  |
| 20                                 | 16QAM      | 1       | 49        | 16.21                 | 16.20                        | 16.27                         | 16.11                  | 16.05               | 17.5     | 0 |  |  |  |
| 20                                 | 16QAM      | 1       | 99        | 16.11                 | 16.32                        | 16.37                         | 16.09                  | 16.02               |          |   |  |  |  |
| 20                                 | 16QAM      | 50      | 0         | 16.18                 | 16.32                        | 16.38                         | 16.17                  | 16.14               |          |   |  |  |  |
| 20                                 | 16QAM      | 50      | 24        | 16.26                 | 16.32                        | 16.24                         | 16.14                  | 15.96               |          |   |  |  |  |
| 20                                 | 16QAM      | 50      | 50        | 16.24                 | 16.26                        | 16.37                         | 16.11                  | 16.10               | 17.5     | 0 |  |  |  |
| 20                                 | 16QAM      | 100     | 0         | 16.28                 | 16.36                        | 16.36                         | 16.18                  | 15.97               |          |   |  |  |  |
| 20                                 | 64QAM      | 1       | 0         | 16.02                 | 16.12                        | 16.18                         | 16.07                  | 15.97               |          |   |  |  |  |
| 20                                 | 64QAM      | 1       | 49        | 15.94                 | 16.00                        | 15.99                         | 15.78                  | 15.77               |          |   |  |  |  |
| 20                                 | 64QAM      | 1       | 99        | 15.89                 | 15.92                        | 16.02                         | 15.79                  | 15.68               | 17.5     | 0 |  |  |  |
| 20                                 | 64QAM      | 50      | 0         | 16.12                 | 16.16                        | 16.24                         | 16.08                  | 16.08               |          |   |  |  |  |
| 20                                 | 64QAM      | 50      | 24        | 16.21                 | 16.25                        | 16.20                         | 16.07                  | 15.96               |          |   |  |  |  |
| 20                                 | 64QAM      | 50      | 50        | 16.17                 | 16.25                        | 16.26                         | 16.10                  | 16.05               |          |   |  |  |  |
| 20                                 | 64QAM      | 100     | 0         | 16.29                 | 16.38                        | 16.35                         | 16.40                  | 16.39               | 17.5     | 0 |  |  |  |
| 20                                 | 256QAM     | 1       | 0         | 16.07                 | 16.32                        | 16.35                         | 16.22                  | 16.27               |          |   |  |  |  |
| 20                                 | 256QAM     | 1       | 49        | 16.25                 | 16.29                        | 16.24                         | 16.16                  | 16.05               |          |   |  |  |  |
| 20                                 | 256QAM     | 1       | 99        | 16.23                 | 16.26                        | 16.41                         | 16.10                  | 15.98               |          |   |  |  |  |
| 20                                 | 256QAM     | 50      | 0         | 16.11                 | 16.14                        | 16.21                         | 15.99                  | 15.99               | 17.5     | 0 |  |  |  |
| 20                                 | 256QAM     | 50      | 24        | 16.26                 | 16.20                        | 16.16                         | 16.14                  | 16.11               |          |   |  |  |  |
| 20                                 | 256QAM     | 50      | 50        | 16.05                 | 16.12                        | 16.23                         | 16.10                  | 16.03               |          |   |  |  |  |
| 20                                 | 256QAM     | 100     | 0         | 16.11                 | 16.32                        | 16.34                         | 16.16                  | 15.97               |          |   |  |  |  |
| Channel                            |            |         |           | 39755                 | 40173                        | 40603                         | 41093                  | 41515               |          |   |  |  |  |
| Frequency (MHz)                    |            |         |           | 2503.5                | 2548.3                       | 2593                          | 2637.8                 | 2682.5              |          |   |  |  |  |
| 15                                 | QPSK       | 1       | 0         | 16.05                 | 16.17                        | 16.20                         | 15.98                  | 15.94               | 17.5     | 0 |  |  |  |
| 15                                 | QPSK       | 1       | 37        | 15.97                 | 16.09                        | 16.18                         | 15.91                  | 15.95               |          |   |  |  |  |
| 15                                 | QPSK       | 1       | 74        | 16.12                 | 16.10                        | 16.25                         | 16.04                  | 15.94               |          |   |  |  |  |
| 15                                 | QPSK       | 36      | 0         | 16.20                 | 16.26                        | 16.25                         | 16.14                  | 15.98               |          |   |  |  |  |
| 15                                 | QPSK       | 36      | 20        | 16.24                 | 16.33                        | 16.22                         | 16.06                  | 15.94               | 17.5     | 0 |  |  |  |
| 15                                 | QPSK       | 36      | 39        | 16.25                 | 16.33                        | 16.32                         | 16.09                  | 15.98               |          |   |  |  |  |
| 15                                 | QPSK       | 75      | 0         | 16.24                 | 16.32                        | 16.21                         | 16.16                  | 16.07               |          |   |  |  |  |
| 15                                 | 16QAM      | 1       | 0         | 16.25                 | 16.28                        | 16.38                         | 16.17                  | 16.09               |          |   |  |  |  |
| 15                                 | 16QAM      | 1       | 37        | 15.91                 | 16.03                        | 16.26                         | 15.99                  | 16.05               | 17.5     | 0 |  |  |  |
| 15                                 | 16QAM      | 1       | 74        | 16.24                 | 16.41                        | 16.32                         | 16.22                  | 16.04               |          |   |  |  |  |
| 15                                 | 16QAM      | 36      | 0         | 16.23                 | 16.17                        | 16.25                         | 16.05                  | 16.01               |          |   |  |  |  |
| 15                                 | 16QAM      | 36      | 20        | 16.13                 | 16.23                        | 16.19                         | 16.03                  | 15.97               |          |   |  |  |  |
| 15                                 | 16QAM      | 36      | 39        | 16.23                 | 16.32                        | 16.30                         | 16.03                  | 15.92               | 17.5     | 0 |  |  |  |
| 15                                 | 16QAM      | 75      | 0         | 16.28                 | 16.37                        | 16.27                         | 16.10                  | 16.05               |          |   |  |  |  |
| 15                                 | 64QAM      | 1       | 0         | 15.85                 | 16.06                        | 16.14                         | 15.95                  | 15.96               |          |   |  |  |  |
| 15                                 | 64QAM      | 1       | 37        | 16.11                 | 16.09                        | 16.08                         | 15.96                  | 15.74               |          |   |  |  |  |
| 15                                 | 64QAM      | 1       | 74        | 15.96                 | 16.05                        | 16.08                         | 15.79                  | 15.72               | 17.5     | 0 |  |  |  |
| 15                                 | 64QAM      | 36      | 0         | 16.23                 | 16.27                        | 16.26                         | 16.07                  | 15.95               |          |   |  |  |  |
| 15                                 | 64QAM      | 36      | 20        | 16.19                 | 16.33                        | 16.22                         | 15.97                  | 15.89               |          |   |  |  |  |
| 15                                 | 64QAM      | 36      | 39        | 16.26                 | 16.31                        | 16.35                         | 16.12                  | 16.10               |          |   |  |  |  |
| 15                                 | 64QAM      | 75      | 0         | 16.29                 | 16.30                        | 16.22                         | 16.11                  | 16.03               | 17.5     | 0 |  |  |  |
| 15                                 | 256QAM     | 1       | 0         | 16.09                 | 16.24                        | 16.29                         | 16.05                  | 16.11               |          |   |  |  |  |
| 15                                 | 256QAM     | 1       | 37        | 15.98                 | 16.14                        | 16.26                         | 16.11                  | 16.07               |          |   |  |  |  |
| 15                                 | 256QAM     | 1       | 74        | 16.19                 | 16.20                        | 16.38                         | 16.20                  | 16.03               |          |   |  |  |  |
| 15                                 | 256QAM     | 36      | 0         | 16.25                 | 16.30                        | 16.34                         | 16.17                  | 16.11               | 17.5     | 0 |  |  |  |
| 15                                 | 256QAM     | 36      | 20        | 16.39                 | 16.35                        | 16.30                         | 16.13                  | 16.08               |          |   |  |  |  |
| 15                                 | 256QAM     | 36      | 39        | 16.33                 | 16.41                        | 16.29                         | 16.27                  | 16.05               |          |   |  |  |  |
| 15                                 | 256QAM     | 75      | 0         | 16.39                 | 16.38                        | 16.27                         | 16.30                  | 16.17               |          |   |  |  |  |
| Channel                            |            |         |           | 39760                 | 40180                        | 40620                         | 41080                  | 41540               |          |   |  |  |  |
| Frequency (MHz)                    |            |         |           | 2641                  | 2647                         | 2693                          | 2698                   | 2645                |          |   |  |  |  |
| 10                                 | QPSK       | 1       | 0         | 16.11                 | 16.20                        | 16.20                         | 15.99                  | 15.96               | 17.5     | 0 |  |  |  |
| 10                                 | QPSK       | 1       | 25        | 16.10                 | 16.20                        | 16.21                         | 16.02                  | 15.93               |          |   |  |  |  |
| 10                                 | QPSK       | 1       | 49        | 16.14                 | 16.12                        | 16.30                         | 16.08                  | 15.91               |          |   |  |  |  |
| 10                                 | QPSK       | 25      | 0         | 16.24                 | 16.26                        | 16.27                         | 16.05                  | 15.98               |          |   |  |  |  |
| 10                                 | QPSK       | 25      | 12        | 16.26                 | 16.33                        | 16.37                         | 16.00                  | 16.01               | 17.5     | 0 |  |  |  |
| 10                                 | QPSK       | 25      | 25        | 16.17                 | 16.27                        | 16.42                         | 16.12                  | 16.05               |          |   |  |  |  |
| 10                                 | QPSK       | 50      | 0         | 16.22                 | 16.30                        | 16.31                         | 16.07                  | 15.90               |          |   |  |  |  |
| 10                                 | 16QAM      | 1       | 0         | 16.25                 | 16.29                        | 16.35                         | 16.21                  | 16.15               |          |   |  |  |  |
| 10                                 | 16QAM      | 1       | 25        | 16.30                 | 16.21                        | 16.30                         | 16.15                  | 16.13               | 17.5     | 0 |  |  |  |
| 10                                 | 16QAM      | 1       | 49        | 16.27                 | 16.20                        | 16.38                         | 16.10                  | 15.96               |          |   |  |  |  |
| 10                                 | 16QAM      | 25      | 0         | 16.20                 | 16.13                        | 16.28                         | 16.05                  | 15.87               |          |   |  |  |  |
| 10                                 | 16QAM      | 25      | 12        | 16.25                 | 16.33                        | 16.33                         | 16.21                  | 16.00               |          |   |  |  |  |
| 10                                 | 16QAM      | 25      | 25        | 16.24                 | 16.30                        | 16.32                         | 16.17                  | 16.00               | 17.5     | 0 |  |  |  |
| 10                                 | 16QAM      | 50      | 0         | 16.31                 | 16.40                        | 16.34                         | 16.21                  | 15.94               |          |   |  |  |  |
| 10                                 | 64QAM      | 1       | 0         | 16.27                 | 16.36                        | 16.19                         | 16.38                  | 15.98               |          |   |  |  |  |
| 10                                 | 64QAM      | 1       | 25        | 15.97                 | 16.38                        | 16.07                         | 15.94                  | 16.03               |          |   |  |  |  |
| 10                                 | 64QAM      | 1       | 49        | 16.00                 | 16.07                        | 16.31                         | 15.98                  | 15.94               | 17.5     | 0 |  |  |  |
| 10                                 | 64QAM      | 25      | 0         | 16.13                 | 16.19                        | 16.25                         | 16.14                  | 15.97               |          |   |  |  |  |
| 10                                 | 64QAM      | 25      | 12        | 16.26                 | 16.41                        | 16.22                         | 16.15                  | 15.97               |          |   |  |  |  |
| 10                                 | 64QAM      | 25      | 25        | 16.19                 | 16.24                        | 16.26                         | 16.16                  | 15.99               |          |   |  |  |  |
| 10                                 | 64QAM      | 50      | 0         | 16.28                 | 16.27                        | 16.27                         | 16.05                  | 15.93               | 17.5     | 0 |  |  |  |
| 10                                 | 256QAM     | 1       | 0         | 16.11                 | 16.16                        | 16.24                         | 16.08                  | 15.97               |          |   |  |  |  |
| 10                                 | 256QAM     | 1       | 25        | 16.07                 | 16.15                        | 16.26                         | 16.04                  | 15.99               |          |   |  |  |  |
| 10                                 | 256QAM     | 1       | 49        | 16.23                 | 16.06                        | 16.28                         | 16.14                  | 15.86               |          |   |  |  |  |
| 10                                 | 256QAM     | 25      | 0         | 16.24                 | 16.13                        | 16.24                         | 15.94                  | 16.04               | 17.5     | 0 |  |  |  |
| 10                                 | 256QAM     | 25      | 12        | 16.29                 | 16.34                        | 16.37                         | 16.03                  | 16.04               |          |   |  |  |  |
| 10                                 | 256QAM     | 25      | 25        | 16.22                 | 16.35                        | 16.41                         | 16.12                  | 16.08               |          |   |  |  |  |
| 10                                 | 256QAM     | 50      | 0         | 16.35                 | 16.30                        | 16.26                         | 16.17                  | 15.96               |          |   |  |  |  |
| Channel                            |            |         |           | 39675                 | 40148                        | 40620                         | 41093                  | 41565               |          |   |  |  |  |
| Frequency (MHz)                    |            |         |           | 2498.5                | 2545.8                       | 2593                          | 2640.30                | 2697.5              |          |   |  |  |  |
| 5                                  | QPSK       | 1       | 0         | 16.06                 | 16.14                        | 16.16                         | 15.96                  | 16.01               | 17.5     | 0 |  |  |  |
| 5                                  | QPSK       | 1       | 12        | 16.07                 | 16.11                        | 16.20                         | 15.95                  | 15.93               |          |   |  |  |  |
| 5                                  | QPSK       | 1       | 24        | 16.15                 | 16.19                        | 16.19                         | 15.99                  | 15.94               |          |   |  |  |  |
| 5                                  | QPSK       | 12      | 0         | 16.24                 | 16.33                        | 16.37                         | 16.12                  | 16.09               |          |   |  |  |  |
| 5                                  | QPSK       | 12      | 7         | 16.31                 | 16.29                        | 16.35                         | 16.16                  | 16.10               | 17.5     | 0 |  |  |  |
| 5                                  | QPSK       | 12      | 13        | 16.19                 | 16.26                        | 16.35                         | 16.16                  | 15.96               |          |   |  |  |  |
| 5                                  | QPSK       | 25      | 0         | 16.20                 | 16.31                        | 16.26                         | 16.14                  | 16.09               |          |   |  |  |  |
| 5                                  | 16QAM      | 1       | 0         | 16.17                 | 16.28                        | 16.25                         | 16.13                  | 16.10               |          |   |  |  |  |
| 5                                  | 16QAM      | 1       | 12        | 16.23                 | 16.42                        | 16.31                         | 16.16                  | 16.23               | 17.5     | 0 |  |  |  |
| 5                                  | 16QAM      | 1       | 24        | 16.30                 | 16.27                        | 16.36                         | 16.11                  | 16.02               |          |   |  |  |  |
| 5                                  | 16QAM      | 12      | 0         | 16.18                 | 16.34                        | 16.33                         | 16.17                  | 16.06               |          |   |  |  |  |
| 5                                  | 16QAM      | 12      | 7         | 16.25                 | 16.38                        | 16.29                         | 16.08                  | 16.04               |          |   |  |  |  |
| 5                                  | 16QAM      | 12      | 13        | 16.16                 | 16.31                        | 16.36                         | 16.06                  | 16.07               | 17.5     | 0 |  |  |  |
| 5                                  | 16QAM      | 25      | 0         | 16.18                 | 16.35                        | 16.38                         | 16.11                  | 16.06               |          |   |  |  |  |
| 5                                  | 64QAM      | 1       | 0         | 15.95                 | 16.03                        | 16.12                         | 15.88                  | 15.85               |          |   |  |  |  |
| 5                                  | 64QAM      | 1       | 12        | 16.03                 | 16.13                        | 16.19                         | 15.94                  | 15.95               |          |   |  |  |  |
| 5                                  | 64QAM      | 1       | 24        | 16.03                 | 16.13                        | 16.11                         | 15.90                  | 15.87               | 17.5     | 0 |  |  |  |
| 5                                  | 64QAM      | 12      | 0         | 16.27                 | 16.38                        | 16.32                         | 16.17                  | 16.07               |          |   |  |  |  |
| 5                                  | 64QAM      | 12      | 7         | 16.21                 | 16.35                        | 16.29                         | 16.08                  | 16.02               |          |   |  |  |  |
| 5                                  | 64QAM      | 12      | 13        | 16.24                 | 16.27                        | 16.29                         | 16.08                  | 15.89               |          |   |  |  |  |
| 5                                  | 64QAM      | 25      | 0         | 16.17                 | 16.26                        | 16.29                         | 16.05                  | 16.01               | 17.5     | 0 |  |  |  |
| 5                                  | 64QAM      | 25      | 12        | 16.20                 | 16.24                        | 16.24                         | 16.17                  | 16.04               |          |   |  |  |  |
| 5                                  | 64QAM      | 25      | 25        | 16.07                 | 16.06                        | 16.27                         | 15.94                  | 15.92               |          |   |  |  |  |
| 5                                  | 256QAM     | 1       | 24        | 16.17                 | 16.26                        | 16.08                         | 16.05                  | 15.92               |          |   |  |  |  |
| 5                                  | 256QAM     | 12      | 0         | 16.33                 | 16.40                        | 16.37                         | 16.07                  | 16.05               | 17.5     | 0 |  |  |  |
| 5                                  | 256QAM     | 12      | 7         | 16.40                 | 16.26                        | 16.27                         | 16.13                  | 16.01               |          |   |  |  |  |
| 5                                  | 256QAM     | 12      | 13        | 16.30                 | 16.17                        | 16.40                         | 16.13                  | 15.99               |          |   |  |  |  |
| 5                                  | 256QAM     | 25      | 0         | 16.21                 | 16.36                        | 16.20                         | 16.16                  | 16.08               |          |   |  |  |  |

Ant 4 Full Power/DSI 1/3/4/5

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 126                       | 189   | 251   |                     | 126                       | 189   | 251   |                     |
| TX Channel      | 324.2                     | 334.4 | 341.1 | 324.2               | 334.4                     | 341.1 |       |                     |
| Frequency (MHz) | 31.41                     | 31.85 | 31.66 | 33.00               | 22.41                     | 22.55 | 22.66 | 24.00               |
| GSM 1 Tx slot   | 31.40                     | 31.84 | 31.64 | 33.00               | 22.40                     | 22.84 | 22.64 | 24.00               |
| GPRS 1 Tx slot  | 28.40                     | 28.71 | 28.73 | 30.00               | 22.40                     | 22.71 | 22.73 | 24.00               |
| GPRS 2 Tx slots | 26.52                     | 26.67 | 26.83 | 28.20               | 22.26                     | 22.61 | 22.67 | 23.94               |
| GPRS 3 Tx slots | 25.33                     | 25.79 | 25.71 | 27.00               | 22.33                     | 22.79 | 22.71 | 24.00               |
| GPRS 4 Tx slots | 25.55                     | 25.77 | 25.61 | 26.53               | 16.55                     | 16.77 | 16.61 | 17.53               |
| EDGE 1 Tx slot  | 22.66                     | 22.83 | 22.67 | 23.53               | 16.66                     | 16.83 | 16.67 | 17.53               |
| EDGE 2 Tx slots | 20.96                     | 20.76 | 20.49 | 21.73               | 16.70                     | 16.50 | 16.23 | 17.47               |
| EDGE 3 Tx slots | 19.70                     | 19.68 | 19.57 | 20.53               | 16.70                     | 16.68 | 16.57 | 17.53               |
| EDGE 4 Tx slots |                           |       |       |                     |                           |       |       |                     |

Ant 4 Full Power/DSI 3/4

| Band            | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|---------|-------|-------|---------------------|
|                 | 4132    | 4162  | 4233  |                     |
| TX Channel      | 4357    | 4407  | 4458  |                     |
| Rx Channel      | 836.4   | 836.4 | 846.6 |                     |
| Frequency (MHz) | 23.23   | 23.24 | 23.18 | 24.00               |
| 3GPP Rel 99     | 23.24   | 23.25 | 23.20 | 24.00               |
| 3GPP Rel 99     | 22.05   | 22.06 | 22.04 | 23.00               |
| 3GPP Rel 6      | 22.03   | 22.08 | 22.04 | 23.00               |
| 3GPP Rel 6      | 21.56   | 21.60 | 21.51 | 22.50               |
| 3GPP Rel 6      | 21.52   | 21.58 | 21.53 | 22.50               |
| 3GPP Rel 6      | 21.08   | 22.07 | 21.98 | 23.00               |
| 3GPP Rel 6      | 22.02   | 22.01 | 21.95 | 23.00               |
| 3GPP Rel 6      | 21.52   | 21.53 | 21.46 | 22.50               |
| 3GPP Rel 6      | 21.46   | 21.57 | 21.45 | 22.50               |
| 3GPP Rel 6      | 21.99   | 22.09 | 21.98 | 23.00               |
| 3GPP Rel 6      | 20.05   | 20.06 | 19.96 | 21.00               |
| 3GPP Rel 6      | 20.99   | 21.06 | 21.01 | 22.00               |
| 3GPP Rel 6      | 20.04   | 20.07 | 19.97 | 21.00               |
| 3GPP Rel 6      | 22.00   | 22.10 | 22.00 | 23.00               |

| Ant 4 Band 5 Full Power / DSI 4 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
|---------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|--|
| BW (MHz)                        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |
| Channel                         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 10                              | QPSK       | 1       | 0         | 23.07                 | 23.27                    | 23.14                  | 24.6                | 0        |  |  |  |  |
| 10                              | QPSK       | 1       | 25        | 23.06                 | 23.04                    | 23.07                  |                     |          |  |  |  |  |
| 10                              | QPSK       | 1       | 49        | 23.11                 | 23.26                    | 23.08                  |                     |          |  |  |  |  |
| 10                              | QPSK       | 25      | 0         | 22.16                 | 22.42                    | 22.21                  | 23.6                | 1        |  |  |  |  |
| 10                              | QPSK       | 25      | 12        | 22.25                 | 22.24                    | 22.20                  |                     |          |  |  |  |  |
| 10                              | QPSK       | 25      | 25        | 22.21                 | 22.20                    | 22.21                  |                     |          |  |  |  |  |
| 10                              | QPSK       | 50      | 0         | 22.23                 | 22.24                    | 22.17                  | 23.6                | 1        |  |  |  |  |
| 10                              | 16QAM      | 1       | 0         | 22.51                 | 22.57                    | 22.49                  |                     |          |  |  |  |  |
| 10                              | 16QAM      | 1       | 25        | 22.43                 | 22.44                    | 22.51                  |                     |          |  |  |  |  |
| 10                              | 16QAM      | 1       | 49        | 22.45                 | 22.49                    | 22.39                  | 22.6                | 2        |  |  |  |  |
| 10                              | 16QAM      | 25      | 0         | 21.16                 | 21.15                    | 21.20                  |                     |          |  |  |  |  |
| 10                              | 16QAM      | 25      | 12        | 21.24                 | 21.24                    | 21.23                  |                     |          |  |  |  |  |
| 10                              | 16QAM      | 25      | 25        | 21.20                 | 21.20                    | 21.19                  | 21.6                | 3        |  |  |  |  |
| 10                              | 16QAM      | 50      | 0         | 21.23                 | 21.19                    | 21.19                  |                     |          |  |  |  |  |
| 10                              | 64QAM      | 1       | 0         | 21.50                 | 21.55                    | 21.57                  |                     |          |  |  |  |  |
| 10                              | 64QAM      | 1       | 25        | 21.45                 | 21.46                    | 21.47                  | 22.6                | 2        |  |  |  |  |
| 10                              | 64QAM      | 1       | 49        | 21.45                 | 21.50                    | 21.46                  |                     |          |  |  |  |  |
| 10                              | 64QAM      | 25      | 0         | 20.15                 | 20.16                    | 20.25                  |                     |          |  |  |  |  |
| 10                              | 64QAM      | 25      | 12        | 20.24                 | 20.30                    | 20.20                  | 21.6                | 3        |  |  |  |  |
| 10                              | 64QAM      | 25      | 25        | 20.19                 | 20.21                    | 20.19                  |                     |          |  |  |  |  |
| 10                              | 64QAM      | 50      | 0         | 20.24                 | 20.26                    | 20.19                  |                     |          |  |  |  |  |
| 10                              | 256QAM     | 1       | 0         | 18.00                 | 18.14                    | 18.08                  | 19.6                | 5        |  |  |  |  |
| 10                              | 256QAM     | 1       | 25        | 17.97                 | 17.91                    | 17.99                  |                     |          |  |  |  |  |
| 10                              | 256QAM     | 1       | 49        | 18.00                 | 18.14                    | 17.97                  |                     |          |  |  |  |  |
| 10                              | 256QAM     | 25      | 0         | 18.09                 | 18.33                    | 18.14                  | 19.6                | 5        |  |  |  |  |
| 10                              | 256QAM     | 25      | 12        | 18.11                 | 18.18                    | 18.12                  |                     |          |  |  |  |  |
| 10                              | 256QAM     | 25      | 25        | 18.11                 | 18.06                    | 18.07                  |                     |          |  |  |  |  |
| 10                              | 256QAM     | 50      | 0         | 18.11                 | 18.09                    | 18.05                  | 24.6                | 0        |  |  |  |  |
| Channel                         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 5                               | QPSK       | 1       | 0         | 23.13                 | 23.16                    | 23.19                  | 23.6                | 1        |  |  |  |  |
| 5                               | QPSK       | 1       | 12        | 23.14                 | 23.16                    | 23.15                  |                     |          |  |  |  |  |
| 5                               | QPSK       | 1       | 24        | 23.12                 | 23.12                    | 23.07                  |                     |          |  |  |  |  |
| 5                               | QPSK       | 12      | 0         | 22.20                 | 22.22                    | 22.27                  | 23.6                | 1        |  |  |  |  |
| 5                               | QPSK       | 12      | 7         | 22.20                 | 22.25                    | 22.26                  |                     |          |  |  |  |  |
| 5                               | QPSK       | 12      | 13        | 22.16                 | 22.20                    | 22.22                  |                     |          |  |  |  |  |
| 5                               | QPSK       | 25      | 0         | 22.19                 | 22.21                    | 22.21                  | 23.6                | 1        |  |  |  |  |
| 5                               | 16QAM      | 1       | 0         | 22.49                 | 22.48                    | 22.51                  |                     |          |  |  |  |  |
| 5                               | 16QAM      | 1       | 12        | 22.46                 | 22.47                    | 22.45                  |                     |          |  |  |  |  |
| 5                               | 16QAM      | 1       | 24        | 22.41                 | 22.49                    | 22.48                  | 22.6                | 2        |  |  |  |  |
| 5                               | 16QAM      | 12      | 0         | 21.20                 | 21.25                    | 21.32                  |                     |          |  |  |  |  |
| 5                               | 16QAM      | 12      | 7         | 21.22                 | 21.21                    | 21.29                  |                     |          |  |  |  |  |
| 5                               | 16QAM      | 12      | 13        | 21.19                 | 21.24                    | 21.23                  | 22.6                | 2        |  |  |  |  |
| 5                               | 16QAM      | 25      | 0         | 21.21                 | 21.24                    | 21.21                  |                     |          |  |  |  |  |
| 5                               | 64QAM      | 1       | 0         | 21.40                 | 21.43                    | 21.47                  |                     |          |  |  |  |  |
| 5                               | 64QAM      | 1       | 12        | 21.30                 | 21.37                    | 21.34                  | 21.6                | 3        |  |  |  |  |
| 5                               | 64QAM      | 1       | 24        | 21.34                 | 21.39                    | 21.38                  |                     |          |  |  |  |  |
| 5                               | 64QAM      | 12      | 0         | 20.15                 | 20.18                    | 20.29                  |                     |          |  |  |  |  |
| 5                               | 64QAM      | 12      | 7         | 20.22                 | 20.26                    | 20.27                  | 21.6                | 3        |  |  |  |  |
| 5                               | 64QAM      | 12      | 13        | 20.18                 | 20.14                    | 20.22                  |                     |          |  |  |  |  |
| 5                               | 64QAM      | 25      | 0         | 20.21                 | 20.23                    | 20.22                  |                     |          |  |  |  |  |
| 5                               | 256QAM     | 1       | 0         | 18.01                 | 18.03                    | 18.10                  | 19.6                | 5        |  |  |  |  |
| 5                               | 256QAM     | 1       | 12        | 18.09                 | 18.02                    | 18.01                  |                     |          |  |  |  |  |
| 5                               | 256QAM     | 1       | 24        | 17.99                 | 18.03                    | 17.92                  |                     |          |  |  |  |  |
| 5                               | 256QAM     | 12      | 0         | 18.12                 | 18.12                    | 18.20                  | 19.6                | 5        |  |  |  |  |
| 5                               | 256QAM     | 12      | 7         | 18.08                 | 18.05                    | 18.17                  |                     |          |  |  |  |  |
| 5                               | 256QAM     | 12      | 13        | 18.02                 | 18.10                    | 18.13                  |                     |          |  |  |  |  |
| 5                               | 256QAM     | 25      | 0         | 18.09                 | 18.14                    | 18.08                  | 24.6                | 0        |  |  |  |  |
| Channel                         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 3                               | QPSK       | 1       | 0         | 23.11                 | 23.12                    | 23.12                  | 24.6                | 0        |  |  |  |  |
| 3                               | QPSK       | 1       | 8         | 23.17                 | 23.19                    | 23.21                  |                     |          |  |  |  |  |
| 3                               | QPSK       | 1       | 14        | 23.08                 | 23.06                    | 23.05                  |                     |          |  |  |  |  |
| 3                               | QPSK       | 8       | 0         | 22.18                 | 22.13                    | 22.21                  | 23.6                | 1        |  |  |  |  |
| 3                               | QPSK       | 8       | 4         | 22.16                 | 22.20                    | 22.28                  |                     |          |  |  |  |  |
| 3                               | QPSK       | 8       | 7         | 22.17                 | 22.16                    | 22.23                  |                     |          |  |  |  |  |
| 3                               | QPSK       | 15      | 0         | 22.18                 | 22.22                    | 22.17                  | 23.6                | 1        |  |  |  |  |
| 3                               | 16QAM      | 1       | 0         | 22.41                 | 22.42                    | 22.44                  |                     |          |  |  |  |  |
| 3                               | 16QAM      | 1       | 8         | 22.54                 | 22.52                    | 22.53                  |                     |          |  |  |  |  |
| 3                               | 16QAM      | 1       | 14        | 22.44                 | 22.37                    | 22.39                  | 22.6                | 2        |  |  |  |  |
| 3                               | 16QAM      | 8       | 0         | 21.28                 | 21.27                    | 21.29                  |                     |          |  |  |  |  |
| 3                               | 16QAM      | 8       | 4         | 21.27                 | 21.28                    | 21.32                  |                     |          |  |  |  |  |
| 3                               | 16QAM      | 8       | 7         | 21.24                 | 21.22                    | 21.26                  | 22.6                | 2        |  |  |  |  |
| 3                               | 16QAM      | 15      | 0         | 21.19                 | 21.21                    | 21.19                  |                     |          |  |  |  |  |
| 3                               | 64QAM      | 1       | 0         | 21.34                 | 21.37                    | 21.42                  |                     |          |  |  |  |  |
| 3                               | 64QAM      | 1       | 8         | 21.44                 | 21.41                    | 21.38                  | 21.6                | 3        |  |  |  |  |
| 3                               | 64QAM      | 1       | 14        | 21.31                 | 21.32                    | 21.33                  |                     |          |  |  |  |  |
| 3                               | 64QAM      | 8       | 0         | 20.21                 | 20.21                    | 20.24                  |                     |          |  |  |  |  |
| 3                               | 64QAM      | 8       | 4         | 20.21                 | 20.25                    | 20.27                  | 19.6                | 5        |  |  |  |  |
| 3                               | 64QAM      | 8       | 7         | 20.18                 | 20.21                    | 20.25                  |                     |          |  |  |  |  |
| 3                               | 64QAM      | 15      | 0         | 20.21                 | 20.21                    | 20.20                  |                     |          |  |  |  |  |
| 3                               | 256QAM     | 1       | 0         | 18.04                 | 18.02                    | 17.98                  | 19.6                | 5        |  |  |  |  |
| 3                               | 256QAM     | 1       | 8         | 18.06                 | 18.11                    | 18.07                  |                     |          |  |  |  |  |
| 3                               | 256QAM     | 1       | 14        | 17.97                 | 17.99                    | 17.92                  |                     |          |  |  |  |  |
| 3                               | 256QAM     | 8       | 0         | 18.11                 | 18.01                    | 18.12                  | 19.6                | 5        |  |  |  |  |
| 3                               | 256QAM     | 8       | 4         | 18.10                 | 18.14                    | 18.18                  |                     |          |  |  |  |  |
| 3                               | 256QAM     | 8       | 7         | 18.05                 | 18.08                    | 18.14                  |                     |          |  |  |  |  |
| 3                               | 256QAM     | 15      | 0         | 18.12                 | 18.14                    | 18.03                  | 24.6                | 0        |  |  |  |  |
| Channel                         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| Frequency (MHz)                 |            |         |           |                       |                          |                        |                     |          |  |  |  |  |
| 1.4                             | QPSK       | 1       | 0         | 23.00                 | 23.02                    | 23.03                  | 24.6                | 0        |  |  |  |  |
| 1.4                             | QPSK       | 1       | 3         | 23.10                 | 23.10                    | 23.08                  |                     |          |  |  |  |  |
| 1.4                             | QPSK       | 1       | 5         | 22.98                 | 22.97                    | 23.01                  |                     |          |  |  |  |  |
| 1.4                             | QPSK       | 3       | 0         | 23.07                 | 23.03                    | 23.07                  | 23.6                | 1        |  |  |  |  |
| 1.4                             | QPSK       | 3       | 1         | 23.08                 | 23.12                    | 23.10                  |                     |          |  |  |  |  |
| 1.4                             | QPSK       | 3       | 3         | 23.01                 | 23.05                    | 23.05                  |                     |          |  |  |  |  |
| 1.4                             | QPSK       | 6       | 0         | 22.12                 | 22.15                    | 22.15                  | 23.6                | 1        |  |  |  |  |
| 1.4                             | 16QAM      | 1       | 0         | 22.34                 | 22.36                    | 22.37                  |                     |          |  |  |  |  |
| 1.4                             | 16QAM      | 1       | 3         | 22.37                 | 22.43                    | 22.43                  |                     |          |  |  |  |  |
| 1.4                             | 16QAM      | 1       | 5         | 22.32                 | 22.38                    | 22.30                  | 22.6                | 1        |  |  |  |  |
| 1.4                             | 16QAM      | 3       | 0         | 22.14                 | 22.11                    | 22.16                  |                     |          |  |  |  |  |
| 1.4                             | 16QAM      | 3       | 1         | 22.19                 | 22.22                    | 22.20                  |                     |          |  |  |  |  |
| 1.4                             | 16QAM      | 3       | 3         | 22.10                 | 22.11                    | 22.09                  | 22.6                | 2        |  |  |  |  |
| 1.4                             | 16QAM      | 6       | 0         | 21.17                 | 21.17                    | 21.19                  |                     |          |  |  |  |  |
| 1.4                             | 64QAM      | 1       | 0         | 21.27                 | 21.23                    | 21.32                  |                     |          |  |  |  |  |
| 1.4                             | 64QAM      | 1       | 3         | 21.28                 | 21.33                    | 21.30                  | 22.6                | 2        |  |  |  |  |
| 1.4                             | 64QAM      | 1       | 5         | 21.25                 | 21.31                    | 21.24                  |                     |          |  |  |  |  |
| 1.4                             | 64QAM      | 3       | 0         | 21.16                 | 21.17                    | 21.19                  |                     |          |  |  |  |  |
| 1.4                             | 64QAM      | 3       | 1         | 21.19                 | 21.24                    | 21.21                  | 21.6                | 3        |  |  |  |  |
| 1.4                             | 64QAM      | 3       | 3         | 21.16                 | 21.17                    | 21.15                  |                     |          |  |  |  |  |
| 1.4                             | 64QAM      | 6       | 0         | 20.09                 | 20.17                    | 20.16                  |                     |          |  |  |  |  |
| 1.4                             | 256QAM     | 1       | 0         | 17.95                 | 17.88                    | 17.91                  | 19.6                | 5        |  |  |  |  |
| 1.4                             | 256QAM     | 1       | 3         | 18.02                 | 17.98                    | 17.98                  |                     |          |  |  |  |  |
| 1.4                             | 256QAM     | 1       | 5         | 17.84                 | 17.85                    | 17.90                  |                     |          |  |  |  |  |
| 1.4                             | 256QAM     | 3       | 0         | 17.98                 | 17.95                    | 17.99                  | 19.6                | 5        |  |  |  |  |
| 1.4                             | 256QAM     | 3       | 1         | 17.99                 | 17.99                    | 17.96                  |                     |          |  |  |  |  |
| 1.4                             | 256QAM     | 3       | 3         | 17.87                 | 17.96                    | 17.96                  |                     |          |  |  |  |  |
| 1.4                             | 256QAM     | 6       | 0         | 18.05                 | 18.02                    | 18.02                  | 19.6                | 5        |  |  |  |  |

| Ant 4 Band 12 Full Power / DSI 3/4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |
| Channel                            |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)                    |            |         |           | 23600                 | 23695                    | 23730                  |                     |          |  |
| 5                                  | QPSK       | 1       | 0         | 23.04                 | 23.15                    | 22.94                  | 24.5                | 0        |  |
| 10                                 | QPSK       | 1       | 25        | 22.92                 | 23.07                    | 23.01                  |                     |          |  |
| 10                                 | QPSK       | 1       | 49        | 23.02                 | 23.06                    | 22.96                  |                     |          |  |
| 10                                 | QPSK       | 25      | 0         | 22.11                 | 22.24                    | 22.07                  | 23.5                | 1        |  |
| 10                                 | QPSK       | 25      | 12        | 22.22                 | 22.19                    | 22.09                  |                     |          |  |
| 10                                 | QPSK       | 25      | 25        | 22.21                 | 22.18                    | 22.16                  |                     |          |  |
| 10                                 | QPSK       | 50      | 0         | 22.15                 | 22.12                    | 22.19                  | 22.5                | 1        |  |
| 10                                 | 16QAM      | 1       | 0         | 23.22                 | 22.29                    | 22.31                  |                     |          |  |
| 10                                 | 16QAM      | 1       | 25        | 22.35                 | 22.41                    | 22.33                  |                     |          |  |
| 10                                 | 16QAM      | 1       | 49        | 22.43                 | 22.41                    | 22.36                  | 22.5                | 2        |  |
| 10                                 | 16QAM      | 25      | 0         | 21.11                 | 21.08                    | 21.08                  |                     |          |  |
| 10                                 | 16QAM      | 25      | 12        | 21.17                 | 21.19                    | 21.12                  |                     |          |  |
| 10                                 | 16QAM      | 25      | 25        | 21.14                 | 21.14                    | 21.12                  | 21.5                | 3        |  |
| 10                                 | 16QAM      | 50      | 0         | 21.20                 | 21.18                    | 21.09                  |                     |          |  |
| 10                                 | 64QAM      | 1       | 0         | 21.28                 | 21.37                    | 21.36                  |                     |          |  |
| 10                                 | 64QAM      | 1       | 25        | 21.36                 | 21.36                    | 21.32                  | 19.5                | 5        |  |
| 10                                 | 64QAM      | 1       | 49        | 21.47                 | 21.45                    | 21.35                  |                     |          |  |
| 10                                 | 64QAM      | 25      | 0         | 20.21                 | 20.08                    | 20.09                  |                     |          |  |
| 10                                 | 64QAM      | 25      | 12        | 20.34                 | 20.26                    | 20.13                  | 23.5                | 1        |  |
| 10                                 | 64QAM      | 25      | 25        | 20.17                 | 20.20                    | 20.12                  |                     |          |  |
| 10                                 | 64QAM      | 50      | 0         | 20.49                 | 20.18                    | 20.10                  |                     |          |  |
| 10                                 | 256QAM     | 1       | 0         | 17.99                 | 18.00                    | 17.80                  | 19.5                | 5        |  |
| 10                                 | 256QAM     | 1       | 25        | 17.85                 | 17.92                    | 17.88                  |                     |          |  |
| 10                                 | 256QAM     | 1       | 49        | 17.96                 | 17.94                    | 17.81                  |                     |          |  |
| 10                                 | 256QAM     | 25      | 0         | 17.97                 | 18.15                    | 18.02                  | 23.5                | 1        |  |
| 10                                 | 256QAM     | 25      | 12        | 18.08                 | 18.08                    | 17.99                  |                     |          |  |
| 10                                 | 256QAM     | 25      | 25        | 18.09                 | 18.11                    | 18.03                  |                     |          |  |
| 10                                 | 256QAM     | 50      | 0         | 18.04                 | 18.10                    | 17.97                  | 22.5                | 2        |  |
| Channel                            |            |         |           | 23035                 | 23095                    | 23155                  |                     |          |  |
| Frequency (MHz)                    |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |  |
| 5                                  | QPSK       | 1       | 0         | 23.12                 | 23.01                    | 22.94                  | 24.5                | 0        |  |
| 5                                  | QPSK       | 1       | 25        | 23.04                 | 23.05                    | 23.04                  |                     |          |  |
| 5                                  | QPSK       | 1       | 24        | 23.01                 | 23.06                    | 22.95                  |                     |          |  |
| 5                                  | QPSK       | 12      | 0         | 22.17                 | 22.10                    | 22.11                  | 23.5                | 1        |  |
| 5                                  | QPSK       | 12      | 7         | 22.14                 | 22.14                    | 22.13                  |                     |          |  |
| 5                                  | QPSK       | 12      | 13        | 22.09                 | 22.12                    | 22.08                  |                     |          |  |
| 5                                  | QPSK       | 25      | 0         | 22.11                 | 22.13                    | 22.08                  | 23.5                | 1        |  |
| 5                                  | 16QAM      | 1       | 0         | 22.34                 | 22.33                    | 22.31                  |                     |          |  |
| 5                                  | 16QAM      | 1       | 25        | 22.33                 | 22.33                    | 22.33                  |                     |          |  |
| 5                                  | 16QAM      | 1       | 24        | 22.34                 | 22.36                    | 22.31                  | 22.5                | 2        |  |
| 5                                  | 16QAM      | 12      | 0         | 21.20                 | 21.14                    | 21.13                  |                     |          |  |
| 5                                  | 16QAM      | 12      | 7         | 21.13                 | 21.15                    | 21.16                  |                     |          |  |
| 5                                  | 16QAM      | 12      | 13        | 21.13                 | 21.14                    | 21.09                  | 22.5                | 2        |  |
| 5                                  | 16QAM      | 25      | 0         | 21.14                 | 21.16                    | 21.08                  |                     |          |  |
| 5                                  | 64QAM      | 1       | 0         | 21.12                 | 21.21                    | 21.32                  |                     |          |  |
| 5                                  | 64QAM      | 1       | 12        | 21.21                 | 21.27                    | 21.24                  | 21.5                | 3        |  |
| 5                                  | 64QAM      | 1       | 24        | 21.25                 | 21.27                    | 21.17                  |                     |          |  |
| 5                                  | 64QAM      | 12      | 0         | 20.14                 | 20.14                    | 20.09                  |                     |          |  |
| 5                                  | 64QAM      | 12      | 7         | 20.14                 | 20.15                    | 20.14                  | 19.5                | 5        |  |
| 5                                  | 64QAM      | 12      | 13        | 20.11                 | 20.09                    | 20.06                  |                     |          |  |
| 5                                  | 64QAM      | 25      | 0         | 20.16                 | 20.16                    | 20.07                  |                     |          |  |
| 5                                  | 256QAM     | 1       | 0         | 18.01                 | 17.87                    | 17.83                  | 19.5                | 5        |  |
| 5                                  | 256QAM     | 1       | 12        | 17.98                 | 17.98                    | 17.89                  |                     |          |  |
| 5                                  | 256QAM     | 1       | 24        | 17.94                 | 17.91                    | 17.84                  |                     |          |  |
| 5                                  | 256QAM     | 12      | 0         | 18.07                 | 17.99                    | 18.02                  | 19.5                | 5        |  |
| 5                                  | 256QAM     | 12      | 7         | 18.07                 | 18.01                    | 18.03                  |                     |          |  |
| 5                                  | 256QAM     | 12      | 13        | 17.86                 | 18.07                    | 17.86                  |                     |          |  |
| 5                                  | 256QAM     | 25      | 0         | 17.96                 | 18.00                    | 17.87                  | 24.5                | 0        |  |
| Channel                            |            |         |           | 23025                 | 23095                    | 23165                  |                     |          |  |
| Frequency (MHz)                    |            |         |           | 700.5                 | 707.5                    | 714.5                  |                     |          |  |
| 3                                  | QPSK       | 1       | 0         | 23.07                 | 22.98                    | 23.01                  | 24.5                | 0        |  |
| 3                                  | QPSK       | 1       | 8         | 23.01                 | 23.06                    | 23.06                  |                     |          |  |
| 3                                  | QPSK       | 1       | 14        | 22.98                 | 23.02                    | 22.89                  |                     |          |  |
| 3                                  | QPSK       | 8       | 0         | 22.15                 | 22.06                    | 22.05                  | 23.5                | 1        |  |
| 3                                  | QPSK       | 8       | 4         | 22.12                 | 22.22                    | 22.08                  |                     |          |  |
| 3                                  | QPSK       | 15      | 0         | 22.11                 | 22.13                    | 22.10                  |                     |          |  |
| 3                                  | 16QAM      | 1       | 0         | 22.34                 | 22.32                    | 22.30                  | 23.5                | 1        |  |
| 3                                  | 16QAM      | 1       | 8         | 22.37                 | 22.37                    | 22.34                  |                     |          |  |
| 3                                  | 16QAM      | 1       | 14        | 22.31                 | 22.36                    | 22.23                  |                     |          |  |
| 3                                  | 16QAM      | 8       | 0         | 21.19                 | 21.21                    | 21.08                  | 22.5                | 2        |  |
| 3                                  | 16QAM      | 8       | 4         | 21.19                 | 21.22                    | 21.14                  |                     |          |  |
| 3                                  | 16QAM      | 15      | 0         | 21.19                 | 21.14                    | 21.12                  |                     |          |  |
| 3                                  | 64QAM      | 1       | 0         | 21.28                 | 21.25                    | 21.21                  | 21.5                | 3        |  |
| 3                                  | 64QAM      | 1       | 8         | 21.26                 | 21.33                    | 21.20                  |                     |          |  |
| 3                                  | 64QAM      | 1       | 14        | 21.31                 | 21.31                    | 21.13                  |                     |          |  |
| 3                                  | 64QAM      | 8       | 0         | 20.16                 | 20.07                    | 20.05                  | 19.5                | 5        |  |
| 3                                  | 64QAM      | 8       | 4         | 20.16                 | 20.15                    | 20.11                  |                     |          |  |
| 3                                  | 64QAM      | 8       | 7         | 20.12                 | 20.15                    | 20.04                  |                     |          |  |
| 3                                  | 64QAM      | 15      | 0         | 20.14                 | 20.11                    | 20.08                  | 23.5                | 1        |  |
| 3                                  | 256QAM     | 1       | 0         | 17.99                 | 17.88                    | 17.84                  |                     |          |  |
| 3                                  | 256QAM     | 1       | 8         | 17.94                 | 17.94                    | 18.01                  |                     |          |  |
| 3                                  | 256QAM     | 1       | 14        | 17.93                 | 17.95                    | 17.79                  | 19.5                | 5        |  |
| 3                                  | 256QAM     | 8       | 0         | 18.03                 | 18.01                    | 17.99                  |                     |          |  |
| 3                                  | 256QAM     | 8       | 4         | 18.07                 | 18.04                    | 17.93                  |                     |          |  |
| 3                                  | 256QAM     | 8       | 7         | 17.96                 | 17.99                    | 17.91                  | 24.5                | 0        |  |
| 3                                  | 256QAM     | 15      | 0         | 17.99                 | 18.01                    | 18.05                  |                     |          |  |
| Channel                            |            |         |           | 23071                 | 23095                    | 23173                  |                     |          |  |
| Frequency (MHz)                    |            |         |           | 707.5                 | 713.5                    | 719.3                  |                     |          |  |
| 1.4                                | QPSK       | 1       | 0         | 22.93                 | 22.91                    | 22.88                  | 24.5                | 0        |  |
| 1.4                                | QPSK       | 1       | 3         | 22.97                 | 22.98                    | 22.89                  |                     |          |  |
| 1.4                                | QPSK       | 1       | 5         | 22.85                 | 22.89                    | 22.84                  |                     |          |  |
| 1.4                                | QPSK       | 3       | 0         | 22.98                 | 22.93                    | 22.89                  | 23.5                | 1        |  |
| 1.4                                | QPSK       | 3       | 1         | 22.98                 | 22.98                    | 22.89                  |                     |          |  |
| 1.4                                | QPSK       | 3       | 3         | 22.92                 | 22.94                    | 22.84                  |                     |          |  |
| 1.4                                | QPSK       | 6       | 0         | 22.05                 | 22.01                    | 21.96                  | 23.5                | 1        |  |
| 1.4                                | 16QAM      | 1       | 0         | 22.24                 | 22.26                    | 22.21                  |                     |          |  |
| 1.4                                | 16QAM      | 1       | 3         | 22.36                 | 22.25                    | 22.22                  |                     |          |  |
| 1.4                                | 16QAM      | 1       | 5         | 22.18                 | 22.21                    | 22.12                  | 22.5                | 2        |  |
| 1.4                                | 16QAM      | 3       | 0         | 22.04                 | 22.01                    | 21.98                  |                     |          |  |
| 1.4                                | 16QAM      | 3       | 1         | 22.09                 | 22.05                    | 22.00                  |                     |          |  |
| 1.4                                | 16QAM      | 3       | 3         | 22.05                 | 21.97                    | 21.93                  | 21.5                | 3        |  |
| 1.4                                | 64QAM      | 1       | 0         | 21.19                 | 21.24                    | 21.11                  |                     |          |  |
| 1.4                                | 64QAM      | 1       | 3         | 21.13                 | 21.24                    | 21.14                  |                     |          |  |
| 1.4                                | 64QAM      | 1       | 5         | 21.13                 | 21.17                    | 21.06                  | 22.5                | 2        |  |
| 1.4                                | 64QAM      | 3       | 0         | 21.15                 | 21.04                    | 21.02                  |                     |          |  |
| 1.4                                | 64QAM      | 3       | 1         | 21.15                 | 21.05                    | 21.04                  |                     |          |  |
| 1.4                                | 64QAM      | 3       | 3         | 21.09                 | 21.00                    | 20.97                  | 19.5                | 5        |  |
| 1.4                                | 64QAM      | 6       | 0         | 20.11                 | 20.04                    | 19.95                  |                     |          |  |
| 1.4                                | 256QAM     | 1       | 0         | 17.84                 | 17.82                    | 17.76                  |                     |          |  |
| 1.4                                | 256QAM     | 1       | 3         | 17.84                 | 17.90                    | 17.77                  | 19.5                | 5        |  |
| 1.4                                | 256QAM     | 1       | 5         | 17.77                 | 17.79                    | 17.76                  |                     |          |  |
| 1.4                                | 256QAM     | 3       | 0         | 17.82                 | 17.79                    | 17.82                  |                     |          |  |
| 1.4                                | 256QAM     | 3       | 1         | 17.92                 | 17.86                    | 17.78                  | 19.5                | 5        |  |
| 1.4                                | 256QAM     | 3       | 3         | 17.85                 | 17.88                    | 17.74                  |                     |          |  |
| 1.4                                | 256QAM     | 6       | 0         | 17.83                 | 17.84                    | 17.87                  |                     |          |  |



| Ant4 Down power DSI 1/5 |                    |         |       |       |                     |
|-------------------------|--------------------|---------|-------|-------|---------------------|
| Band                    |                    | WCDMA V |       |       | Tune-up Limit (dBm) |
| TX Channel              |                    | 4132    | 4182  | 4233  |                     |
| Rx Channel              |                    | 4367    | 4407  | 4458  |                     |
| Frequency (MHz)         |                    | 182.4   | 188.4 | 194.6 |                     |
| 3GPP Rel 99             | RMC 12.2Kbps       | 22.30   | 22.33 | 22.28 | 23.00               |
| 3GPP Rel 99             | RMC 12.2Kbps       | 22.32   | 22.34 | 22.30 | 23.00               |
| 3GPP Rel 6              | HSDPA Subtest-1    | 21.02   | 21.13 | 21.00 | 22.00               |
| 3GPP Rel 6              | HSDPA Subtest-2    | 20.99   | 21.10 | 21.04 | 22.00               |
| 3GPP Rel 6              | HSDPA Subtest-3    | 20.57   | 20.55 | 20.47 | 21.50               |
| 3GPP Rel 6              | HSDPA Subtest-4    | 20.52   | 20.58 | 20.52 | 21.50               |
| 3GPP Rel 6              | DC-HSDPA Subtest-1 | 21.03   | 21.05 | 21.05 | 22.00               |
| 3GPP Rel 6              | DC-HSDPA Subtest-2 | 21.02   | 21.07 | 21.01 | 22.00               |
| 3GPP Rel 6              | DC-HSDPA Subtest-3 | 20.55   | 20.49 | 20.41 | 21.50               |
| 3GPP Rel 6              | DC-HSDPA Subtest-4 | 20.47   | 20.57 | 20.42 | 21.50               |
| 3GPP Rel 6              | HSUPA Subtest-1    | 20.95   | 21.06 | 21.01 | 22.00               |
| 3GPP Rel 6              | HSUPA Subtest-2    | 19.11   | 19.07 | 18.03 | 20.00               |
| 3GPP Rel 6              | HSUPA Subtest-3    | 19.99   | 20.07 | 20.07 | 21.00               |
| 3GPP Rel 6              | HSUPA Subtest-4    | 19.05   | 19.06 | 18.98 | 20.00               |
| 3GPP Rel 6              | HSUPA Subtest-5    | 20.98   | 21.12 | 20.96 | 22.00               |



| Ant 4 Band 5 Down power DSI 1 |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
|-------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--------|--------|---------------------|----------|--|--|--|--|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dbm) | MPR (db) |        |        |                     |          |  |  |  |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 1       | 0         | 826.5               | 2112                   | 2144                 | 2114                | 22.6     | 0      |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 1       | 25        | 21.06               | 21.06                  | 21.14                | 21.09               |          |        |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 1       | 49        | 21.18               | 21.18                  | 21.24                | 21.09               |          |        |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 25      | 0         | 20.97               | 21.30                  | 21.30                | 21.12               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 25      | 12        | 21.09               | 21.08                  | 21.02                | 21.02               |          |        |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 25      | 25        | 21.08               | 21.00                  | 21.10                | 21.08               |          |        |        |                     |          |  |  |  |  |
| 10                            | QPSK       | 50      | 0         | 21.05               | 21.10                  | 21.10                | 21.08               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 1       | 0         | 21.25               | 21.36                  | 21.22                | 21.22               |          |        |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 1       | 25        | 21.21               | 21.17                  | 21.34                | 21.34               |          |        |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 1       | 49        | 21.18               | 21.28                  | 21.12                | 21.12               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 25      | 0         | 21.23               | 21.12                  | 21.22                | 21.22               |          |        |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 25      | 12        | 21.26               | 21.29                  | 21.29                | 21.29               |          |        |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 25      | 25        | 21.25               | 21.25                  | 21.15                | 21.15               | 21.6     | 1      |        |                     |          |  |  |  |  |
| 10                            | 16QAM      | 50      | 0         | 21.26               | 21.15                  | 21.25                | 21.25               |          |        |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 1       | 0         | 21.25               | 21.32                  | 21.36                | 21.36               |          |        |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 1       | 25        | 21.27               | 21.33                  | 21.30                | 21.30               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 1       | 49        | 21.31               | 21.30                  | 21.21                | 21.21               |          |        |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 25      | 0         | 20.18               | 20.22                  | 20.32                | 20.32               |          |        |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 25      | 12        | 20.28               | 20.30                  | 20.19                | 20.19               | 21.6     | 1      |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 25      | 25        | 20.26               | 20.25                  | 20.14                | 20.14               |          |        |        |                     |          |  |  |  |  |
| 10                            | 64QAM      | 50      | 0         | 20.28               | 20.32                  | 20.19                | 20.19               |          |        |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 1       | 0         | 18.07               | 18.09                  | 18.08                | 18.08               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 1       | 25        | 18.00               | 17.97                  | 18.03                | 18.03               |          |        |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 1       | 49        | 18.04               | 18.16                  | 17.97                | 17.97               |          |        |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 25      | 0         | 18.12               | 18.32                  | 18.13                | 18.13               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 25      | 12        | 18.07               | 18.21                  | 18.10                | 18.10               |          |        |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 25      | 25        | 18.11               | 18.12                  | 18.08                | 18.08               |          |        |        |                     |          |  |  |  |  |
| 10                            | 256QAM     | 50      | 0         | 18.12               | 18.08                  | 18.07                | 18.07               | 204.25   | 205.25 | 206.25 | Tune-up limit (dbm) | MPR (db) |  |  |  |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 1       | 0         | 826.5               | 2112                   | 2121                 | 2118                | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 1       | 12        | 21.19               | 21.19                  | 21.23                | 21.20               |          |        |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 1       | 24        | 21.19               | 21.19                  | 21.16                | 21.06               |          |        |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 12      | 0         | 21.09               | 21.14                  | 21.14                | 21.15               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 12      | 7         | 21.10               | 21.10                  | 21.09                | 21.09               |          |        |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 12      | 13        | 21.05               | 21.07                  | 21.07                | 21.08               |          |        |        |                     |          |  |  |  |  |
| 5                             | QPSK       | 25      | 0         | 21.03               | 21.08                  | 21.14                | 21.14               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 1       | 0         | 21.31               | 21.26                  | 21.29                | 21.29               |          |        |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 1       | 12        | 21.19               | 21.19                  | 21.20                | 21.19               |          |        |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 1       | 24        | 21.22               | 21.19                  | 21.30                | 21.30               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 12      | 0         | 21.20               | 21.28                  | 21.30                | 21.30               |          |        |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 12      | 7         | 21.19               | 21.25                  | 21.25                | 21.25               |          |        |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 12      | 13        | 21.25               | 21.27                  | 21.20                | 21.20               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | 16QAM      | 25      | 0         | 21.29               | 21.29                  | 21.29                | 21.29               |          |        |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 1       | 0         | 21.42               | 21.42                  | 21.43                | 21.43               |          |        |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 1       | 12        | 21.30               | 21.33                  | 21.38                | 21.38               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 1       | 24        | 21.33               | 21.41                  | 21.40                | 21.40               |          |        |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 12      | 0         | 20.22               | 20.26                  | 20.34                | 20.34               |          |        |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 12      | 7         | 20.26               | 20.32                  | 20.30                | 20.30               | 21.6     | 1      |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 12      | 13        | 20.25               | 20.20                  | 20.19                | 20.19               |          |        |        |                     |          |  |  |  |  |
| 5                             | 64QAM      | 25      | 0         | 20.29               | 20.24                  | 20.20                | 20.20               |          |        |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 1       | 0         | 18.08               | 18.10                  | 18.17                | 18.17               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 1       | 12        | 18.08               | 18.05                  | 18.02                | 18.02               |          |        |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 1       | 24        | 17.99               | 18.04                  | 17.99                | 17.99               |          |        |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 12      | 0         | 18.20               | 18.11                  | 18.23                | 18.23               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 12      | 7         | 18.05               | 18.22                  | 18.23                | 18.23               |          |        |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 12      | 13        | 18.04               | 18.07                  | 18.11                | 18.11               |          |        |        |                     |          |  |  |  |  |
| 5                             | 256QAM     | 25      | 0         | 18.10               | 18.20                  | 18.05                | 18.05               | 204.15   | 205.25 | 206.35 | Tune-up limit (dbm) | MPR (db) |  |  |  |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 1       | 0         | 825.5               | 836.5                  | 847.5                | 847.5               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 1       | 8         | 21.14               | 21.16                  | 21.19                | 21.19               |          |        |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 1       | 14        | 21.13               | 21.14                  | 21.09                | 21.09               |          |        |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 8       | 0         | 21.05               | 21.04                  | 21.10                | 21.10               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 8       | 4         | 21.09               | 21.03                  | 21.11                | 21.11               |          |        |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 8       | 7         | 21.01               | 20.99                  | 21.16                | 21.16               |          |        |        |                     |          |  |  |  |  |
| 3                             | QPSK       | 15      | 0         | 21.06               | 21.09                  | 20.97                | 20.97               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 1       | 0         | 21.13               | 21.14                  | 21.21                | 21.21               |          |        |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 1       | 8         | 21.31               | 21.31                  | 21.29                | 21.29               |          |        |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 1       | 14        | 21.15               | 21.11                  | 21.18                | 21.18               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 8       | 0         | 21.24               | 21.24                  | 21.23                | 21.23               |          |        |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 8       | 4         | 21.29               | 21.27                  | 21.35                | 21.35               |          |        |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 8       | 7         | 21.25               | 21.20                  | 21.23                | 21.23               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | 16QAM      | 15      | 0         | 21.16               | 21.22                  | 21.24                | 21.24               |          |        |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 1       | 0         | 21.39               | 21.40                  | 21.42                | 21.42               |          |        |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 1       | 8         | 21.39               | 21.41                  | 21.36                | 21.36               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 1       | 14        | 21.35               | 21.39                  | 21.37                | 21.37               |          |        |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 8       | 0         | 20.27               | 20.24                  | 20.28                | 20.28               |          |        |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 8       | 4         | 20.28               | 20.25                  | 20.30                | 20.30               | 21.6     | 1      |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 8       | 7         | 20.18               | 20.29                  | 20.26                | 20.26               |          |        |        |                     |          |  |  |  |  |
| 3                             | 64QAM      | 15      | 0         | 20.21               | 20.16                  | 20.17                | 20.17               |          |        |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 1       | 0         | 18.11               | 17.97                  | 17.99                | 17.99               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 1       | 8         | 18.06               | 18.15                  | 18.15                | 18.15               |          |        |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 1       | 14        | 17.93               | 18.04                  | 17.90                | 17.90               |          |        |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 8       | 0         | 18.13               | 18.00                  | 18.10                | 18.10               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 8       | 4         | 18.06               | 18.15                  | 18.15                | 18.15               |          |        |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 8       | 7         | 18.05               | 18.09                  | 18.10                | 18.10               |          |        |        |                     |          |  |  |  |  |
| 3                             | 256QAM     | 15      | 0         | 18.15               | 18.17                  | 18.02                | 18.02               | 204.07   | 205.25 | 205.43 | Tune-up limit (dbm) | MPR (db) |  |  |  |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |        |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 1       | 0         | 826.5               | 836.5                  | 846.5                | 846.5               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 1       | 3         | 21.03               | 21.08                  | 21.04                | 21.05               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 1       | 5         | 20.96               | 21.04                  | 21.05                | 21.05               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 3       | 0         | 21.10               | 21.03                  | 21.11                | 21.11               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 3       | 1         | 21.08               | 21.11                  | 21.11                | 21.11               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 3       | 3         | 21.00               | 21.04                  | 21.10                | 21.10               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | QPSK       | 6       | 0         | 21.15               | 21.20                  | 21.17                | 21.17               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 1       | 0         | 21.15               | 21.18                  | 21.21                | 21.21               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 1       | 3         | 21.21               | 21.22                  | 21.26                | 21.26               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 1       | 5         | 21.14               | 21.14                  | 21.10                | 21.10               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 3       | 0         | 21.01               | 20.87                  | 20.93                | 20.93               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 3       | 1         | 21.06               | 20.99                  | 21.00                | 21.00               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 3       | 3         | 20.95               | 20.91                  | 20.85                | 20.85               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | 16QAM      | 6       | 0         | 21.21               | 21.21                  | 21.19                | 21.19               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 1       | 0         | 21.30               | 21.25                  | 21.28                | 21.28               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 1       | 3         | 21.23               | 21.36                  | 21.34                | 21.34               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 1       | 5         | 21.22               | 21.24                  | 21.29                | 21.29               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 3       | 0         | 21.15               | 21.22                  | 21.25                | 21.25               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 3       | 1         | 21.21               | 21.21                  | 21.20                | 21.20               | 22.6     | 0      |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 3       | 3         | 21.20               | 21.24                  | 21.16                | 21.16               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 64QAM      | 6       | 0         | 20.32               | 20.40                  | 20.36                | 20.36               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 1       | 0         | 17.93               | 17.95                  | 17.90                | 17.90               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 1       | 3         | 18.04               | 17.95                  | 17.96                | 17.96               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 1       | 5         | 17.90               | 17.92                  | 17.88                | 17.88               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 3       | 0         | 17.97               | 17.97                  | 18.01                | 18.01               | 19.6     | 3      |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 3       | 1         | 17.98               | 18.05                  | 18.05                | 18.05               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 3       | 3         | 17.85               | 17.95                  | 17.93                | 17.93               |          |        |        |                     |          |  |  |  |  |
| 1.4                           | 256QAM     | 6       | 0         | 18.10               | 18.02                  | 17.98                | 17.98               | 19.6     | 3      |        |                     |          |  |  |  |  |

| Ant 4 Band 17 Down power DSI 1/5 |                 |         |           |             |              |             |                     |          |  |
|----------------------------------|-----------------|---------|-----------|-------------|--------------|-------------|---------------------|----------|--|
| BW [MHz]                         | Modulation      | RB Size | RB Offset | Power Low   | Power Middle | Power High  | Tune-up limit (dBm) | MPR (dB) |  |
|                                  | Channel         |         |           | Ch. / Freq. | Ch. / Freq.  | Ch. / Freq. |                     |          |  |
|                                  | Frequency (MHz) |         |           | 709         | 710          | 711         |                     |          |  |
| 10                               | QPSK            | 1       | 0         | 21.85       | 22.25        | 21.94       |                     |          |  |
| 10                               | QPSK            | 1       | 25        | 21.97       | 21.95        | 21.94       | 23.5                | 0        |  |
| 10                               | QPSK            | 1       | 49        | 22.00       | 21.99        | 22.00       |                     |          |  |
| 10                               | QPSK            | 25      | 0         | 21.94       | 22.19        | 21.97       |                     |          |  |
| 10                               | QPSK            | 25      | 12        | 22.13       | 22.19        | 22.00       | 23.5                | 0        |  |
| 10                               | QPSK            | 25      | 25        | 22.16       | 22.10        | 22.12       |                     |          |  |
| 10                               | QPSK            | 50      | 0         | 22.09       | 22.15        | 22.06       |                     |          |  |
| 10                               | 16QAM           | 1       | 0         | 22.19       | 22.25        | 22.25       |                     |          |  |
| 10                               | 16QAM           | 1       | 25        | 22.19       | 22.20        | 22.13       | 23.5                | 0        |  |
| 10                               | 16QAM           | 1       | 49        | 22.23       | 22.21        | 22.23       |                     |          |  |
| 10                               | 16QAM           | 25      | 0         | 21.03       | 20.95        | 20.96       |                     |          |  |
| 10                               | 16QAM           | 25      | 12        | 21.11       | 21.10        | 21.04       | 22.5                | 1        |  |
| 10                               | 16QAM           | 25      | 25        | 21.14       | 21.11        | 21.10       |                     |          |  |
| 10                               | 16QAM           | 50      | 0         | 21.11       | 21.06        | 20.98       |                     |          |  |
| 10                               | 64QAM           | 1       | 0         | 21.28       | 21.29        | 21.27       |                     |          |  |
| 10                               | 64QAM           | 1       | 25        | 21.33       | 21.26        | 21.32       | 22.5                | 1        |  |
| 10                               | 64QAM           | 1       | 49        | 21.36       | 21.37        | 21.34       |                     |          |  |
| 10                               | 64QAM           | 25      | 0         | 20.01       | 19.96        | 19.92       |                     |          |  |
| 10                               | 64QAM           | 25      | 12        | 20.15       | 20.22        | 20.04       | 21.5                | 2        |  |
| 10                               | 64QAM           | 25      | 25        | 20.21       | 20.14        | 20.15       |                     |          |  |
| 10                               | 64QAM           | 50      | 0         | 20.10       | 20.17        | 20.04       |                     |          |  |
| 10                               | 256QAM          | 1       | 0         | 17.81       | 17.97        | 17.83       |                     |          |  |
| 10                               | 256QAM          | 1       | 25        | 17.83       | 17.88        | 17.74       | 19.5                | 4        |  |
| 10                               | 256QAM          | 1       | 49        | 17.91       | 17.91        | 17.85       |                     |          |  |
| 10                               | 256QAM          | 25      | 0         | 17.93       | 18.15        | 17.84       |                     |          |  |
| 10                               | 256QAM          | 25      | 12        | 18.09       | 18.06        | 17.87       | 19.5                | 4        |  |
| 10                               | 256QAM          | 25      | 25        | 18.05       | 17.98        | 18.05       |                     |          |  |
| 10                               | 256QAM          | 50      | 0         | 18.02       | 18.04        | 17.96       |                     |          |  |
|                                  | Channel         |         |           | 23755       | 23790        | 23825       |                     |          |  |
|                                  | Frequency (MHz) |         |           | 705.5       | 710          | 713.5       |                     |          |  |
| 5                                | QPSK            | 1       | 0         | 21.85       | 21.87        | 21.91       |                     |          |  |
| 5                                | QPSK            | 1       | 12        | 21.95       | 22.01        | 22.01       | 23.5                | 0        |  |
| 5                                | QPSK            | 1       | 24        | 22.12       | 21.99        | 22.02       |                     |          |  |
| 5                                | QPSK            | 12      | 0         | 22.14       | 22.02        | 22.00       |                     |          |  |
| 5                                | QPSK            | 12      | 7         | 22.06       | 22.09        | 22.00       | 23.5                | 0        |  |
| 5                                | QPSK            | 12      | 13        | 22.12       | 22.16        | 22.10       |                     |          |  |
| 5                                | QPSK            | 25      | 0         | 22.04       | 22.04        | 22.07       |                     |          |  |
| 5                                | 16QAM           | 1       | 0         | 22.10       | 22.23        | 22.21       |                     |          |  |
| 5                                | 16QAM           | 1       | 12        | 22.21       | 22.16        | 22.23       | 23.5                | 0        |  |
| 5                                | 16QAM           | 1       | 24        | 22.20       | 22.23        | 22.20       |                     |          |  |
| 5                                | 16QAM           | 12      | 0         | 21.12       | 21.02        | 21.01       |                     |          |  |
| 5                                | 16QAM           | 12      | 7         | 21.11       | 21.15        | 21.08       | 22.5                | 1        |  |
| 5                                | 16QAM           | 12      | 13        | 21.12       | 21.08        | 21.06       |                     |          |  |
| 5                                | 16QAM           | 25      | 0         | 21.20       | 21.07        | 21.05       |                     |          |  |
| 5                                | 64QAM           | 1       | 0         | 21.12       | 21.11        | 21.17       |                     |          |  |
| 5                                | 64QAM           | 1       | 12        | 21.22       | 21.23        | 21.18       | 22.5                | 1        |  |
| 5                                | 64QAM           | 1       | 24        | 21.34       | 21.34        | 21.22       |                     |          |  |
| 5                                | 64QAM           | 12      | 0         | 20.12       | 20.01        | 20.09       |                     |          |  |
| 5                                | 64QAM           | 12      | 7         | 20.10       | 20.05        | 20.07       | 21.5                | 2        |  |
| 5                                | 64QAM           | 12      | 13        | 20.13       | 20.06        | 20.06       |                     |          |  |
| 5                                | 64QAM           | 25      | 0         | 20.16       | 20.13        | 20.07       |                     |          |  |
| 5                                | 256QAM          | 1       | 0         | 17.80       | 17.80        | 17.82       |                     |          |  |
| 5                                | 256QAM          | 1       | 12        | 17.94       | 17.95        | 17.91       | 19.5                | 4        |  |
| 5                                | 256QAM          | 1       | 24        | 18.06       | 17.94        | 17.86       |                     |          |  |
| 5                                | 256QAM          | 12      | 0         | 18.07       | 17.87        | 17.87       |                     |          |  |
| 5                                | 256QAM          | 12      | 7         | 18.01       | 18.06        | 17.97       | 19.5                | 4        |  |
| 5                                | 256QAM          | 12      | 13        | 18.07       | 17.95        | 18.03       |                     |          |  |
| 5                                | 256QAM          | 25      | 0         | 18.02       | 17.90        | 17.96       |                     |          |  |

| Ant 6 Band 2 Full Power / DSI 4                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|-----------------------------|------------------------------|------------------------------|---------------------|-----------|--|--|
| BW (MHz)                                                                                                                                                                                                                                                                                        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. (dBm) | Power High Ch. / Freq. (dBm) | Power High Ch. / Freq. (dBm) | Time-up Init. (sec) | APRS (dB) |  |  |
| Channel                                                                                                                                                                                                                                                                                         |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 0         | 24.34                       | 24.37                        | 24.20                        | 25.2                | 0         |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 49        | 24.18                       | 24.29                        | 24.22                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 99        | 24.00                       | 24.05                        | 24.16                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 50      | 0         | 23.46                       | 23.48                        | 23.22                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 50      | 24        | 23.46                       | 23.48                        | 23.22                        | 24.2                | 1         |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 50      | 50        | 23.37                       | 23.32                        | 23.38                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | QPSK       | 100     | 0         | 23.40                       | 23.43                        | 23.34                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 0         | 23.65                       | 23.68                        | 23.60                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 49        | 23.82                       | 23.70                        | 23.42                        | 24.2                | 1         |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 99        | 23.38                       | 23.40                        | 23.36                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 0         | 22.41                       | 22.39                        | 22.24                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 24        | 22.50                       | 22.33                        | 22.41                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 50        | 22.43                       | 22.31                        | 22.37                        | 23.2                | 2         |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 100     | 0         | 22.44                       | 22.36                        | 22.39                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 0         | 22.77                       | 22.52                        | 22.56                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 49        | 22.53                       | 22.66                        | 22.36                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 0         | 21.33                       | 21.26                        | 21.20                        | 22.2                | 3         |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 24        | 21.37                       | 21.34                        | 21.29                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 50        | 21.42                       | 21.28                        | 21.23                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 16QAM      | 100     | 0         | 21.53                       | 21.40                        | 21.33                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 99        | 18.93                       | 18.97                        | 18.98                        | 20.2                | 5         |  |  |
| 20                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 49        | 19.04                       | 19.27                        | 19.07                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 256QAM     | 50      | 24        | 18.36                       | 19.28                        | 19.18                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 256QAM     | 50      | 50        | 19.32                       | 19.22                        | 19.29                        |                     |           |  |  |
| 20                                                                                                                                                                                                                                                                                              | 256QAM     | 100     | 0         | 19.34                       | 19.38                        | 19.25                        | Time-up Init. (sec) | APRS (dB) |  |  |
| Channel                                                                                                                                                                                                                                                                                         |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 0         | 18.67                       | 18.60                        | 18.60                        | 25.2                | 0         |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 37        | 24.20                       | 24.27                        | 24.27                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 74        | 24.24                       | 24.24                        | 24.08                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 36      | 0         | 23.38                       | 23.33                        | 23.22                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 36      | 39        | 23.37                       | 23.33                        | 23.33                        | 24.2                | 1         |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 36      | 75        | 0                           | 23.44                        | 23.38                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 37        | 23.40                       | 23.34                        | 23.24                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 37        | 23.32                       | 23.38                        | 23.77                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 0         | 22.36                       | 22.35                        | 22.27                        | 23.2                | 2         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 39        | 22.48                       | 22.35                        | 22.27                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 75        | 0                           | 22.39                        | 22.29                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 75      | 0         | 22.39                       | 22.29                        | 22.33                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 0         | 22.55                       | 22.50                        | 22.40                        | 23.2                | 2         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 37        | 22.51                       | 22.47                        | 22.47                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 74        | 22.50                       | 22.51                        | 22.45                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 0         | 21.41                       | 21.33                        | 21.25                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 39        | 21.41                       | 21.38                        | 21.25                        | 22.2                | 3         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 36      | 75        | 0                           | 21.45                        | 21.35                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 75      | 0         | 21.45                       | 21.35                        | 21.28                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 37        | 18.99                       | 19.14                        | 19.10                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 74        | 19.13                       | 19.18                        | 19.08                        | 20.2                | 5         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 36      | 0         | 19.26                       | 19.25                        | 19.20                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 36      | 39        | 19.27                       | 19.23                        | 19.29                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 75      | 0         | 19.21                       | 19.28                        | 19.26                        |                     |           |  |  |
| Channel <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 0         | 24.19                       | 24.26                        | 24.26                        | 25.2                | 0         |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 25        | 24.28                       | 24.11                        | 24.14                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 1       | 49        | 23.88                       | 24.04                        | 24.28                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 12      | 0         | 23.38                       | 23.37                        | 23.37                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 25      | 12        | 23.38                       | 23.30                        | 23.37                        | 24.2                | 1         |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 25      | 25        | 23.39                       | 23.31                        | 23.35                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | QPSK       | 50      | 0         | 23.44                       | 23.39                        | 23.34                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 0         | 23.41                       | 23.50                        | 23.42                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 25        | 23.71                       | 23.88                        | 23.45                        | 24.2                | 1         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 49        | 23.60                       | 23.76                        | 23.46                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 25      | 0         | 22.46                       | 22.28                        | 22.31                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 25      | 12        | 22.58                       | 22.37                        | 22.25                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 0         | 22.38                       | 22.30                        | 22.25                        | 23.2                | 2         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 12        | 22.49                       | 22.34                        | 22.21                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 25        | 22.38                       | 22.31                        | 22.41                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 0         | 22.43                       | 22.83                        | 22.69                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 24        | 22.51                       | 22.78                        | 22.83                        | 23.2                | 2         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 1       | 49        | 22.52                       | 22.70                        | 22.83                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 25      | 0         | 21.32                       | 21.25                        | 21.27                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 25      | 12        | 21.54                       | 21.47                        | 21.39                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 25      | 25        | 21.48                       | 21.29                        | 21.30                        | 22.2                | 3         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 0         | 21.43                       | 21.33                        | 21.32                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 16QAM      | 50      | 12        | 21.46                       | 21.30                        | 21.34                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 25        | 18.84                       | 18.80                        | 18.83                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 25        | 19.20                       | 19.00                        | 19.01                        | 20.2                | 5         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 1       | 49        | 18.74                       | 18.95                        | 19.01                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 25      | 0         | 19.15                       | 19.24                        | 19.25                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 25      | 12        | 19.33                       | 19.21                        | 19.24                        |                     |           |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 25      | 25        | 19.26                       | 19.17                        | 19.25                        | 20.2                | 5         |  |  |
| 18                                                                                                                                                                                                                                                                                              | 256QAM     | 50      | 0         | 19.21                       | 19.18                        | 19.14                        |                     |           |  |  |
| Channel                                                                                                                                                                                                                                                                                         |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 0         | 24.19                       | 24.26                        | 24.26                        | 25.2                | 0         |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 12        | 24.28                       | 24.20                        | 24.22                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 12        | 24.29                       | 24.14                        | 24.20                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 12      | 0         | 23.38                       | 23.32                        | 23.32                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 12      | 7         | 23.36                       | 23.31                        | 23.37                        | 24.2                | 1         |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 12      | 13        | 23.39                       | 23.39                        | 23.37                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 25      | 0         | 23.38                       | 23.33                        | 23.34                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 0         | 23.31                       | 23.73                        | 23.44                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 12        | 23.72                       | 23.33                        | 23.44                        | 24.2                | 1         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 24        | 23.45                       | 23.77                        | 23.52                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 0         | 22.38                       | 22.24                        | 22.28                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 7         | 22.43                       | 22.34                        | 22.31                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 13        | 22.43                       | 22.22                        | 22.26                        | 23.2                | 2         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 25      | 0         | 22.50                       | 22.29                        | 22.36                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 0         | 22.47                       | 22.22                        | 22.29                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 12        | 22.47                       | 22.28                        | 22.26                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 1       | 24        | 22.69                       | 22.50                        | 22.50                        | 22.2                | 3         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 0         | 21.28                       | 21.29                        | 21.22                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 7         | 21.48                       | 21.41                        | 21.33                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 12      | 13        | 21.41                       | 21.41                        | 21.48                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 25      | 0         | 21.43                       | 21.33                        | 21.32                        | 20.2                | 5         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 25      | 0         | 19.14                       | 19.19                        | 19.08                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 1       | 12        | 19.13                       | 19.19                        | 19.15                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 1       | 24        | 19.20                       | 19.08                        | 19.10                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 12      | 0         | 19.18                       | 19.20                        | 19.12                        | 20.2                | 5         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 12      | 7         | 19.27                       | 19.24                        | 19.25                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 15      | 0         | 19.21                       | 19.19                        | 19.20                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 15      | 0         | 19.20                       | 19.21                        | 19.20                        |                     |           |  |  |
| Channel                                                                                                                                                                                                                                                                                         |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 0         | 18.61                       | 18.60                        | 18.60                        | 25.2                | 0         |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 37        | 24.23                       | 24.20                        | 24.14                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 74        | 24.26                       | 24.26                        | 24.10                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 1       | 14        | 24.25                       | 24.16                        | 24.16                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 8       | 0         | 23.43                       | 23.24                        | 23.25                        | 24.2                | 1         |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 8       | 4         | 23.46                       | 23.28                        | 23.27                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 8       | 7         | 23.39                       | 23.26                        | 23.27                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | QPSK       | 15      | 0         | 23.39                       | 23.31                        | 23.34                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 0         | 23.47                       | 23.42                        | 23.40                        | 24.2                | 1         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 4         | 23.45                       | 23.30                        | 23.30                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 7         | 23.44                       | 23.29                        | 23.29                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 15      | 0         | 23.37                       | 23.33                        | 23.34                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 0         | 22.54                       | 22.50                        | 22.50                        | 23.2                | 2         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 4         | 22.62                       | 22.47                        | 22.46                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 7         | 22.61                       | 22.46                        | 22.46                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 15      | 0         | 21.88                       | 21.84                        | 21.81                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 0         | 21.48                       | 21.37                        | 21.36                        | 22.2                | 3         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 4         | 21.54                       | 21.25                        | 21.25                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 8       | 7         | 21.53                       | 21.18                        | 21.18                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 16QAM      | 15      | 0         | 19.16                       | 19.14                        | 19.14                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 8       | 0         | 19.16                       | 19.14                        | 19.21                        | 20.2                | 5         |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 8       | 4         | 19.33                       | 19.16                        | 19.16                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 8       | 7         | 19.33                       | 19.19                        | 19.24                        |                     |           |  |  |
| 3                                                                                                                                                                                                                                                                                               | 256QAM     | 15      | 0         | 19.31                       | 19.18                        | 19.18                        |                     |           |  |  |
| Channel                                                                                                                                                                                                                                                                                         |            |         |           |                             |                              |                              |                     |           |  |  |
| Frequency (MHz)                                                                                                                                                                                                                                                                                 |            |         |           |                             |                              |                              |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 1       | 0         | 24.29                       | 24.29                        | 24.17                        | 25.2                | 0         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 1       | 3         | 24.29                       | 24.29                        | 24.17                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 1       | 5         | 24.21                       | 24.11                        | 24.11                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 1       | 7         | 24.21                       | 24.17                        | 24.17                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 3       | 0         | 24.29                       | 24.21                        | 24.14                        | 24.2                | 1         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 3       | 3         | 24.19                       | 24.14                        | 24.22                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | QPSK       | 3       | 7         | 24.24                       | 24.24                        | 24.24                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 1       | 0         | 23.77                       | 23.30                        | 23.64                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 0         | 23.68                       | 23.76                        | 23.62                        | 24.2                | 1         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 3         | 23.74                       | 23.72                        | 23.72                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 7         | 23.65                       | 23.81                        | 23.17                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 6       | 0         | 23.60                       | 23.31                        | 23.17                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 6       | 0         | 22.40                       | 23.31                        | 23.23                        | 23.2                | 2         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 6       | 3         | 22.61                       | 22.24                        | 22.30                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 6       | 7         | 22.48                       | 22.37                        | 22.38                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 6       | 6         | 22.51                       | 22.61                        | 22.50                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 0         | 22.44                       | 22.59                        | 22.29                        | 23.2                | 2         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 3         | 22.37                       | 22.47                        | 22.47                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 6         | 22.38                       | 22.34                        | 22.42                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 16QAM      | 3       | 7         | 22.16                       | 22.16                        | 22.16                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 1       | 0         | 19.14                       | 19.08                        | 19.02                        | 20.2                | 5         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 1       | 3         | 19.21                       | 19.04                        | 18.97                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 1       | 6         | 19.23                       | 19.03                        | 19.03                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 3       | 0         | 19.20                       | 19.03                        | 19.03                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 3       | 3         | 19.16                       | 19.07                        | 19.08                        | 20.2                | 5         |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 3       | 6         | 19.18                       | 19.08                        | 19.08                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 3       | 7         | 19.26                       | 19.15                        | 19.16                        |                     |           |  |  |
| 1.4                                                                                                                                                                                                                                                                                             | 256QAM     | 6       | 0         | 19.26                       | 19.15                        | 19.16                        |                     |           |  |  |

| Ant 6 Band 66 Full Power / DSI 4 |            |         |           |                       |                       |                        |                     |           |  |  |
|----------------------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|-----------|--|--|
| BW (MHz)                         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | APR3 (dB) |  |  |
| Channel                          |            |         |           | 130272                | 130320                | 130372                 |                     |           |  |  |
| Frequency (MHz)                  |            |         |           | 1720                  | 1740                  | 1770                   |                     |           |  |  |
| 20                               | QPSK       | 1       | 0         | 24.15                 | 24.35                 | 24.14                  | 25                  | 0         |  |  |
| 20                               | QPSK       | 1       | 40        | 24.31                 | 24.03                 | 23.38                  |                     |           |  |  |
| 20                               | QPSK       | 1       | 99        | 23.92                 | 24.16                 | 23.95                  |                     |           |  |  |
| 20                               | QPSK       | 50      | 0         | 23.50                 | 23.55                 | 23.16                  | 24                  | 1         |  |  |
| 20                               | QPSK       | 50      | 24        | 23.37                 | 23.42                 | 23.09                  |                     |           |  |  |
| 20                               | QPSK       | 50      | 50        | 23.16                 | 23.20                 | 23.10                  |                     |           |  |  |
| 20                               | 16QAM      | 1       | 49        | 23.64                 | 23.42                 | 23.39                  | 24                  | 1         |  |  |
| 20                               | 16QAM      | 1       | 99        | 23.16                 | 23.34                 | 23.49                  |                     |           |  |  |
| 20                               | 16QAM      | 50      | 0         | 22.65                 | 22.41                 | 22.13                  |                     |           |  |  |
| 20                               | 16QAM      | 50      | 24        | 22.45                 | 22.22                 | 22.17                  | 23                  | 2         |  |  |
| 20                               | 16QAM      | 50      | 50        | 22.24                 | 22.28                 | 22.16                  |                     |           |  |  |
| 20                               | 64QAM      | 1       | 0         | 22.71                 | 22.45                 | 22.36                  |                     |           |  |  |
| 20                               | 64QAM      | 1       | 49        | 22.51                 | 22.38                 | 22.21                  | 22                  | 3         |  |  |
| 20                               | 64QAM      | 1       | 99        | 22.64                 | 22.31                 | 22.08                  |                     |           |  |  |
| 20                               | 64QAM      | 50      | 0         | 21.50                 | 21.22                 | 21.04                  |                     |           |  |  |
| 20                               | 64QAM      | 50      | 24        | 21.48                 | 21.37                 | 21.04                  | 20                  | 5         |  |  |
| 20                               | 64QAM      | 50      | 50        | 21.45                 | 21.15                 | 21.17                  |                     |           |  |  |
| 20                               | 64QAM      | 100     | 0         | 21.53                 | 21.27                 | 21.17                  |                     |           |  |  |
| 20                               | 256QAM     | 1       | 0         | 19.10                 | 19.29                 | 18.98                  | 20                  | 5         |  |  |
| 20                               | 256QAM     | 1       | 49        | 19.24                 | 18.85                 | 18.86                  |                     |           |  |  |
| 20                               | 256QAM     | 1       | 99        | 18.81                 | 19.06                 | 18.89                  |                     |           |  |  |
| 20                               | 256QAM     | 50      | 0         | 19.41                 | 19.43                 | 19.08                  | 20                  | 5         |  |  |
| 20                               | 256QAM     | 50      | 24        | 19.27                 | 19.17                 | 19.04                  |                     |           |  |  |
| 20                               | 256QAM     | 50      | 50        | 19.11                 | 19.12                 | 18.99                  |                     |           |  |  |
| 20                               | 256QAM     | 100     | 0         | 19.25                 | 19.20                 | 19.07                  |                     |           |  |  |
| Channel                          |            |         |           | 130347                | 130320                | 130397                 | Turn-up limit (dBm) | APR3 (dB) |  |  |
| Frequency (MHz)                  |            |         |           | 1717.5                | 1740                  | 1772.5                 |                     |           |  |  |
| 15                               | QPSK       | 1       | 0         | 24.20                 | 24.18                 | 24.11                  | 25                  | 0         |  |  |
| 15                               | QPSK       | 1       | 37        | 24.36                 | 24.10                 | 24.00                  |                     |           |  |  |
| 15                               | QPSK       | 1       | 74        | 24.18                 | 24.02                 | 23.88                  |                     |           |  |  |
| 15                               | QPSK       | 36      | 0         | 23.52                 | 23.21                 | 23.06                  | 24                  | 1         |  |  |
| 15                               | QPSK       | 36      | 20        | 23.42                 | 23.30                 | 23.09                  |                     |           |  |  |
| 15                               | QPSK       | 36      | 39        | 23.33                 | 23.19                 | 23.04                  |                     |           |  |  |
| 15                               | QPSK       | 75      | 0         | 23.41                 | 23.29                 | 23.04                  | 24                  | 1         |  |  |
| 15                               | 16QAM      | 1       | 0         | 23.42                 | 23.50                 | 23.43                  |                     |           |  |  |
| 15                               | 16QAM      | 1       | 37        | 23.73                 | 23.46                 | 23.32                  |                     |           |  |  |
| 15                               | 16QAM      | 1       | 74        | 23.58                 | 23.37                 | 23.24                  | 23                  | 2         |  |  |
| 15                               | 16QAM      | 36      | 0         | 22.64                 | 22.28                 | 22.09                  |                     |           |  |  |
| 15                               | 16QAM      | 36      | 20        | 22.56                 | 22.30                 | 22.08                  |                     |           |  |  |
| 15                               | 16QAM      | 36      | 39        | 22.45                 | 22.24                 | 22.07                  | 22                  | 3         |  |  |
| 15                               | 16QAM      | 75      | 0         | 22.45                 | 22.20                 | 22.04                  |                     |           |  |  |
| 15                               | 64QAM      | 1       | 0         | 22.48                 | 22.42                 | 22.39                  |                     |           |  |  |
| 15                               | 64QAM      | 1       | 37        | 22.47                 | 22.46                 | 22.39                  | 22                  | 3         |  |  |
| 15                               | 64QAM      | 1       | 74        | 22.52                 | 22.25                 | 22.14                  |                     |           |  |  |
| 15                               | 64QAM      | 36      | 0         | 21.53                 | 21.28                 | 21.12                  |                     |           |  |  |
| 15                               | 64QAM      | 36      | 20        | 21.54                 | 21.31                 | 21.08                  | 20                  | 5         |  |  |
| 15                               | 64QAM      | 36      | 39        | 21.38                 | 21.22                 | 21.07                  |                     |           |  |  |
| 15                               | 64QAM      | 75      | 0         | 21.41                 | 21.15                 | 21.06                  |                     |           |  |  |
| 15                               | 256QAM     | 1       | 0         | 19.30                 | 19.04                 | 18.98                  | 20                  | 5         |  |  |
| 15                               | 256QAM     | 1       | 37        | 19.22                 | 19.00                 | 18.89                  |                     |           |  |  |
| 15                               | 256QAM     | 1       | 74        | 19.07                 | 18.91                 | 18.81                  |                     |           |  |  |
| 15                               | 256QAM     | 36      | 0         | 19.36                 | 19.14                 | 18.92                  | 20                  | 5         |  |  |
| 15                               | 256QAM     | 36      | 20        | 19.33                 | 19.15                 | 18.97                  |                     |           |  |  |
| 15                               | 256QAM     | 36      | 39        | 19.19                 | 19.11                 | 18.92                  |                     |           |  |  |
| 15                               | 256QAM     | 75      | 0         | 19.31                 | 19.10                 | 18.96                  |                     |           |  |  |
| Channel                          |            |         |           | 130320                | 130320                | 130362                 | Turn-up limit (dBm) | APR3 (dB) |  |  |
| Frequency (MHz)                  |            |         |           | 1715                  | 1745                  | 1775                   |                     |           |  |  |
| 10                               | QPSK       | 1       | 0         | 24.03                 | 24.26                 | 24.41                  | 25                  | 0         |  |  |
| 10                               | QPSK       | 1       | 25        | 24.29                 | 24.11                 | 23.91                  |                     |           |  |  |
| 10                               | QPSK       | 1       | 49        | 24.18                 | 24.07                 | 23.81                  |                     |           |  |  |
| 10                               | QPSK       | 25      | 0         | 23.50                 | 23.23                 | 23.08                  | 24                  | 1         |  |  |
| 10                               | QPSK       | 25      | 12        | 23.34                 | 23.31                 | 23.04                  |                     |           |  |  |
| 10                               | QPSK       | 25      | 25        | 23.22                 | 23.25                 | 23.06                  |                     |           |  |  |
| 10                               | QPSK       | 50      | 0         | 23.16                 | 23.20                 | 23.04                  | 24                  | 1         |  |  |
| 10                               | 16QAM      | 1       | 0         | 23.10                 | 23.53                 | 23.39                  |                     |           |  |  |
| 10                               | 16QAM      | 1       | 25        | 23.55                 | 23.52                 | 23.33                  |                     |           |  |  |
| 10                               | 16QAM      | 1       | 49        | 23.50                 | 23.48                 | 23.37                  | 23                  | 2         |  |  |
| 10                               | 16QAM      | 25      | 0         | 22.48                 | 22.28                 | 22.03                  |                     |           |  |  |
| 10                               | 16QAM      | 25      | 12        | 22.37                 | 22.33                 | 22.06                  |                     |           |  |  |
| 10                               | 16QAM      | 25      | 25        | 22.32                 | 22.25                 | 22.07                  | 23                  | 2         |  |  |
| 10                               | 16QAM      | 50      | 0         | 22.32                 | 22.20                 | 22.02                  |                     |           |  |  |
| 10                               | 64QAM      | 1       | 0         | 22.36                 | 22.65                 | 22.45                  |                     |           |  |  |
| 10                               | 64QAM      | 1       | 25        | 22.70                 | 22.57                 | 22.41                  | 22                  | 3         |  |  |
| 10                               | 64QAM      | 1       | 49        | 22.64                 | 22.51                 | 22.31                  |                     |           |  |  |
| 10                               | 64QAM      | 25      | 0         | 21.58                 | 21.28                 | 21.10                  |                     |           |  |  |
| 10                               | 64QAM      | 25      | 12        | 21.22                 | 21.13                 | 21.09                  | 20                  | 5         |  |  |
| 10                               | 64QAM      | 25      | 25        | 21.19                 | 21.24                 | 21.10                  |                     |           |  |  |
| 10                               | 64QAM      | 50      | 0         | 21.45                 | 21.12                 | 21.08                  |                     |           |  |  |
| 10                               | 256QAM     | 1       | 0         | 19.34                 | 19.13                 | 18.94                  | 20                  | 5         |  |  |
| 10                               | 256QAM     | 1       | 25        | 19.15                 | 19.01                 | 18.79                  |                     |           |  |  |
| 10                               | 256QAM     | 1       | 49        | 19.08                 | 18.86                 | 18.75                  |                     |           |  |  |
| 10                               | 256QAM     | 25      | 0         | 19.37                 | 19.00                 | 18.91                  | 20                  | 5         |  |  |
| 10                               | 256QAM     | 25      | 12        | 19.23                 | 19.20                 | 18.96                  |                     |           |  |  |
| 10                               | 256QAM     | 25      | 25        | 19.15                 | 19.20                 | 18.98                  |                     |           |  |  |
| 10                               | 256QAM     | 50      | 0         | 19.01                 | 19.22                 | 18.94                  |                     |           |  |  |
| Channel                          |            |         |           | 131997                | 130320                | 130847                 | Turn-up limit (dBm) | APR3 (dB) |  |  |
| Frequency (MHz)                  |            |         |           | 1711.5                | 1745                  | 1778.5                 |                     |           |  |  |
| 3                                | QPSK       | 1       | 0         | 24.07                 | 24.14                 | 24.06                  | 25                  | 0         |  |  |
| 3                                | QPSK       | 1       | 12        | 24.35                 | 24.16                 | 24.07                  |                     |           |  |  |
| 3                                | QPSK       | 1       | 24        | 24.19                 | 24.23                 | 23.97                  |                     |           |  |  |
| 3                                | QPSK       | 12      | 0         | 23.50                 | 23.34                 | 23.16                  | 24                  | 1         |  |  |
| 3                                | QPSK       | 12      | 7         | 23.57                 | 23.32                 | 23.14                  |                     |           |  |  |
| 3                                | QPSK       | 12      | 13        | 23.52                 | 23.24                 | 23.08                  |                     |           |  |  |
| 3                                | QPSK       | 25      | 0         | 23.38                 | 23.32                 | 23.12                  | 24                  | 1         |  |  |
| 3                                | 16QAM      | 1       | 0         | 23.46                 | 23.54                 | 23.38                  |                     |           |  |  |
| 3                                | 16QAM      | 1       | 12        | 23.74                 | 23.55                 | 23.37                  |                     |           |  |  |
| 3                                | 16QAM      | 1       | 24        | 23.73                 | 23.46                 | 23.31                  | 23                  | 2         |  |  |
| 3                                | 16QAM      | 12      | 0         | 22.62                 | 22.38                 | 22.17                  |                     |           |  |  |
| 3                                | 16QAM      | 12      | 7         | 22.64                 | 22.38                 | 22.23                  |                     |           |  |  |
| 3                                | 16QAM      | 12      | 13        | 22.56                 | 22.29                 | 22.16                  | 23                  | 2         |  |  |
| 3                                | 16QAM      | 25      | 0         | 22.51                 | 22.29                 | 22.15                  |                     |           |  |  |
| 3                                | 64QAM      | 1       | 0         | 22.46                 | 22.49                 | 22.36                  |                     |           |  |  |
| 3                                | 64QAM      | 1       | 12        | 22.73                 | 22.51                 | 22.25                  | 22                  | 3         |  |  |
| 3                                | 64QAM      | 1       | 24        | 22.65                 | 22.37                 | 22.30                  |                     |           |  |  |
| 3                                | 64QAM      | 12      | 0         | 21.62                 | 21.34                 | 21.13                  |                     |           |  |  |
| 3                                | 64QAM      | 12      | 7         | 21.36                 | 21.35                 | 21.17                  | 20                  | 5         |  |  |
| 3                                | 64QAM      | 12      | 13        | 21.12                 | 21.20                 | 21.12                  |                     |           |  |  |
| 3                                | 64QAM      | 25      | 0         | 21                    | 21.08                 | 21.08                  | 20                  | 5         |  |  |
| 3                                | 64QAM      | 25      | 7         | 20.97                 | 21.07                 | 21.07                  |                     |           |  |  |
| 3                                | 64QAM      | 25      | 13        | 20.97                 | 21.07                 | 21.07                  |                     |           |  |  |
| 3                                | 64QAM      | 50      | 0         | 20.97                 | 21.07                 | 21.07                  |                     |           |  |  |
| 3                                | 256QAM     | 1       | 0         | 19.13                 | 19.27                 | 18.94                  | 20                  | 5         |  |  |
| 3                                | 256QAM     | 1       | 12        | 19.26                 | 19.07                 | 18.88                  |                     |           |  |  |
| 3                                | 256QAM     | 1       | 24        | 19.07                 | 19.16                 | 18.93                  |                     |           |  |  |
| 3                                | 256QAM     | 12      | 0         | 19.42                 | 19.20                 | 18.99                  | 20                  | 5         |  |  |
| 3                                | 256QAM     | 12      | 7         | 19.31                 | 19.27                 | 18.99                  |                     |           |  |  |
| 3                                | 256QAM     | 12      | 13        | 19.27                 | 19.10                 | 18.98                  |                     |           |  |  |
| 3                                | 256QAM     | 25      | 0         | 19.17                 | 19.22                 | 18.96                  |                     |           |  |  |
| Channel                          |            |         |           | 131919                | 130320                | 130847                 | Turn-up limit (dBm) | APR3 (dB) |  |  |
| Frequency (MHz)                  |            |         |           | 1710.5                | 1745                  | 1778.5                 |                     |           |  |  |
| 14                               | QPSK       | 1       | 0         | 24.02                 | 24.12                 | 24.04                  | 25                  | 0         |  |  |
| 14                               | QPSK       | 1       | 12        | 24.31                 | 24.12                 | 24.03                  |                     |           |  |  |
| 14                               | QPSK       | 1       | 24        | 24.15                 | 24.19                 | 23.97                  |                     |           |  |  |
| 14                               | QPSK       | 1       | 9         | 23.82                 | 24.02                 | 23.75                  | 24                  | 1         |  |  |
| 14                               | QPSK       | 1       | 21        | 23.81                 | 24.01                 | 23.74                  |                     |           |  |  |
| 14                               | QPSK       | 1       | 33        | 23.27                 | 23.19                 | 23.04                  |                     |           |  |  |
| 14                               | QPSK       | 3       | 0         | 23.06                 | 23.10                 | 23.00                  | 24                  | 1         |  |  |
| 14                               | QPSK       | 3       | 3         | 23.06                 | 23.10                 | 23.00                  |                     |           |  |  |
| 14                               | QPSK       | 3       | 6         | 23.06                 | 23.10                 | 23.00                  |                     |           |  |  |
| 14                               | 16QAM      | 1       | 0         | 23.42                 | 23.44                 | 23.35                  | 23                  | 2         |  |  |
| 14                               | 16QAM      | 1       | 3         | 23.64                 | 23.32                 | 23.29                  |                     |           |  |  |
| 14                               | 16QAM      | 1       | 6         | 23.54                 | 23.32                 | 23.29                  |                     |           |  |  |
| 14                               | 16QAM      | 3       | 0         | 22.45                 | 22.31                 | 22.21                  | 23                  | 2         |  |  |
| 14                               | 16QAM      | 3       | 3         | 22.35                 | 22.12                 | 22.07                  |                     |           |  |  |
| 14                               | 16QAM      | 3       | 6         | 22.45                 | 22.18                 | 21.97                  |                     |           |  |  |
| 14                               | 16QAM      | 6       | 0         | 22.61                 | 22.33                 | 22.25                  | 22                  | 3         |  |  |
| 14                               | 16QAM      | 6       | 3         | 22.28                 | 22.11                 | 22.03                  |                     |           |  |  |
| 14                               | 16QAM      | 6       | 6         | 22.54                 | 22.21                 | 22.14                  |                     |           |  |  |
| 14                               | 16QAM      | 3       | 9         | 21.40                 | 21.12                 | 21.04                  | 22                  | 3         |  |  |
| 14                               | 16QAM      | 3       | 12        | 21.33                 | 21.07                 | 21.04                  |                     |           |  |  |
| 14                               | 16QAM      | 3       | 15        | 21.35                 | 21.05                 | 21.07                  |                     |           |  |  |
| 14                               | 16QAM      | 6       | 0         | 21.43                 | 21.17                 | 21.07                  | 22                  | 3         |  |  |
| 14                               | 16QAM      | 6       | 3         | 21.34                 | 21.02                 | 21.04                  |                     |           |  |  |
| 14                               | 16QAM      | 6       | 6         | 21.09                 | 20.80                 | 20.79                  |                     |           |  |  |
| 14                               | 256QAM     | 1       | 0         | 18.76                 | 18.60                 | 18.62                  | 20                  | 5         |  |  |
| 14                               | 256QAM     | 1       | 3         | 18.78                 | 18.68                 | 18.62                  |                     |           |  |  |
| 14                               | 256QAM     | 1       | 6         | 18.67                 | 18.68                 | 18.60                  |                     |           |  |  |
| 14                               | 256QAM     | 3       | 0         | 18.78                 | 18.60                 | 18.54                  | 20                  | 5         |  |  |
| 14                               | 256QAM     | 3       | 3         | 18.61                 | 18.60                 | 18.54                  |                     |           |  |  |
| 14                               | 256QAM     | 3       | 6         | 18.53                 | 18.60                 | 18.54                  |                     |           |  |  |
| 14                               | 256QAM     | 6       | 0         | 18.53                 | 18.60                 | 18.54                  |                     |           |  |  |
| 14                               | 256QAM     | 6       | 0         | 18.24                 | 19.12                 | 18.92                  | 20                  | 5         |  |  |
| 14                               | 256QAM     | 6       | 3         | 18.24                 | 19.12                 | 18.92                  |                     |           |  |  |
| 14                               | 256QAM     | 6       | 6         | 18.24                 | 19.12                 | 18.92                  |                     |           |  |  |

| Ant 6 Band 38 Full Power / DSI 4 |            |         |           |                          |                                |                           |                        |             |  |  |
|----------------------------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|--|
| BW [MHz]                         | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Channel                          |            |         |           | 37650                    | 38000                          | 38150                     |                        |             |  |  |
| Frequency (MHz)                  |            |         |           | 2580                     | 2595                           | 2610                      |                        |             |  |  |
| 20                               | QPSK       | 1       | 0         | 24.91                    | 25.15                          | 24.95                     | 25.5                   | 0           |  |  |
| 20                               | QPSK       | 1       | 49        | 25.00                    | 25.03                          | 24.94                     |                        |             |  |  |
| 20                               | QPSK       | 1       | 99        | 25.05                    | 25.13                          | 24.99                     |                        |             |  |  |
| 20                               | QPSK       | 50      | 0         | 24.12                    | 24.27                          | 24.13                     | 24.5                   | 1           |  |  |
| 20                               | QPSK       | 50      | 24        | 24.26                    | 24.25                          | 24.19                     |                        |             |  |  |
| 20                               | QPSK       | 50      | 50        | 24.23                    | 24.22                          | 24.11                     |                        |             |  |  |
| 20                               | QPSK       | 100     | 0         | 24.24                    | 24.26                          | 24.13                     | 24.5                   | 1           |  |  |
| 20                               | 16QAM      | 1       | 0         | 24.15                    | 24.17                          | 24.12                     |                        |             |  |  |
| 20                               | 16QAM      | 1       | 49        | 24.02                    | 24.22                          | 24.12                     |                        |             |  |  |
| 20                               | 16QAM      | 1       | 99        | 24.25                    | 24.17                          | 24.10                     | 23.5                   | 2           |  |  |
| 20                               | 16QAM      | 50      | 0         | 23.09                    | 23.12                          | 23.16                     |                        |             |  |  |
| 20                               | 16QAM      | 50      | 24        | 23.19                    | 23.22                          | 23.20                     |                        |             |  |  |
| 20                               | 16QAM      | 50      | 50        | 23.28                    | 23.15                          | 23.18                     | 22.5                   | 3           |  |  |
| 20                               | 16QAM      | 100     | 0         | 23.30                    | 23.19                          | 23.16                     |                        |             |  |  |
| 20                               | 64QAM      | 1       | 0         | 23.00                    | 22.82                          | 22.81                     |                        |             |  |  |
| 20                               | 64QAM      | 1       | 49        | 22.87                    | 22.85                          | 22.90                     | 23.5                   | 2           |  |  |
| 20                               | 64QAM      | 1       | 99        | 22.98                    | 22.91                          | 23.01                     |                        |             |  |  |
| 20                               | 64QAM      | 50      | 0         | 22.08                    | 22.07                          | 22.12                     |                        |             |  |  |
| 20                               | 64QAM      | 50      | 24        | 22.18                    | 22.24                          | 22.12                     | 22.5                   | 3           |  |  |
| 20                               | 64QAM      | 50      | 50        | 22.14                    | 22.21                          | 22.10                     |                        |             |  |  |
| 20                               | 64QAM      | 100     | 0         | 22.33                    | 22.26                          | 22.25                     |                        |             |  |  |
| 20                               | 256QAM     | 1       | 0         | 19.80                    | 20.01                          | 19.82                     | 20.5                   | 5           |  |  |
| 20                               | 256QAM     | 1       | 49        | 19.89                    | 19.97                          | 19.84                     |                        |             |  |  |
| 20                               | 256QAM     | 1       | 99        | 19.91                    | 19.99                          | 19.93                     |                        |             |  |  |
| 20                               | 256QAM     | 50      | 0         | 20.07                    | 20.13                          | 20.05                     | 20.5                   | 5           |  |  |
| 20                               | 256QAM     | 50      | 24        | 20.14                    | 20.15                          | 20.06                     |                        |             |  |  |
| 20                               | 256QAM     | 50      | 50        | 20.12                    | 20.11                          | 20.01                     |                        |             |  |  |
| 20                               | 256QAM     | 100     | 0         | 20.19                    | 20.15                          | 20.05                     |                        |             |  |  |
| Channel                          |            |         |           | 37625                    | 38000                          | 38175                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                  |            |         |           | 2577.5                   | 2595                           | 2612.5                    |                        |             |  |  |
| 15                               | QPSK       | 1       | 0         | 24.96                    | 24.93                          | 24.87                     | 25.5                   | 0           |  |  |
| 15                               | QPSK       | 1       | 37        | 25.04                    | 24.88                          | 24.96                     |                        |             |  |  |
| 15                               | QPSK       | 1       | 74        | 25.14                    | 24.94                          | 24.99                     |                        |             |  |  |
| 15                               | QPSK       | 36      | 0         | 24.13                    | 24.15                          | 24.17                     | 24.5                   | 1           |  |  |
| 15                               | QPSK       | 36      | 20        | 24.12                    | 24.22                          | 24.13                     |                        |             |  |  |
| 15                               | QPSK       | 36      | 39        | 24.17                    | 24.20                          | 24.15                     |                        |             |  |  |
| 15                               | QPSK       | 75      | 0         | 24.22                    | 24.13                          | 24.14                     | 24.5                   | 1           |  |  |
| 15                               | 16QAM      | 1       | 0         | 24.08                    | 24.11                          | 24.09                     |                        |             |  |  |
| 15                               | 16QAM      | 1       | 37        | 24.08                    | 23.88                          | 24.13                     |                        |             |  |  |
| 15                               | 16QAM      | 1       | 74        | 24.02                    | 24.19                          | 24.05                     | 23.5                   | 2           |  |  |
| 15                               | 16QAM      | 36      | 0         | 23.07                    | 23.14                          | 23.04                     |                        |             |  |  |
| 15                               | 16QAM      | 36      | 20        | 23.06                    | 23.21                          | 23.10                     |                        |             |  |  |
| 15                               | 16QAM      | 36      | 39        | 23.06                    | 23.11                          | 23.11                     | 23.5                   | 2           |  |  |
| 15                               | 16QAM      | 75      | 0         | 23.20                    | 23.25                          | 23.17                     |                        |             |  |  |
| 15                               | 64QAM      | 1       | 0         | 22.82                    | 22.90                          | 22.83                     |                        |             |  |  |
| 15                               | 64QAM      | 1       | 37        | 22.88                    | 23.00                          | 22.98                     | 23.5                   | 2           |  |  |
| 15                               | 64QAM      | 1       | 74        | 23.02                    | 22.84                          | 23.04                     |                        |             |  |  |
| 15                               | 64QAM      | 36      | 0         | 22.15                    | 22.07                          | 22.05                     |                        |             |  |  |
| 15                               | 64QAM      | 36      | 20        | 22.19                    | 22.24                          | 22.17                     | 22.5                   | 3           |  |  |
| 15                               | 64QAM      | 36      | 39        | 22.24                    | 22.18                          | 22.20                     |                        |             |  |  |
| 15                               | 64QAM      | 75      | 0         | 22.25                    | 22.20                          | 22.18                     |                        |             |  |  |
| 15                               | 256QAM     | 1       | 0         | 19.83                    | 19.86                          | 19.75                     | 20.5                   | 5           |  |  |
| 15                               | 256QAM     | 1       | 37        | 19.92                    | 19.74                          | 19.89                     |                        |             |  |  |
| 15                               | 256QAM     | 1       | 74        | 20.01                    | 19.83                          | 19.89                     |                        |             |  |  |
| 15                               | 256QAM     | 36      | 0         | 20.06                    | 20.09                          | 20.08                     | 20.5                   | 5           |  |  |
| 15                               | 256QAM     | 36      | 20        | 20.01                    | 20.11                          | 20.01                     |                        |             |  |  |
| 15                               | 256QAM     | 36      | 39        | 20.08                    | 20.07                          | 20.01                     |                        |             |  |  |
| 15                               | 256QAM     | 75      | 0         | 20.16                    | 20.10                          | 20.05                     |                        |             |  |  |
| Channel                          |            |         |           | 37600                    | 38000                          | 38200                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                  |            |         |           | 2575                     | 2595                           | 2615                      |                        |             |  |  |
| 10                               | QPSK       | 1       | 0         | 24.94                    | 24.97                          | 24.93                     | 25.5                   | 0           |  |  |
| 10                               | QPSK       | 1       | 25        | 24.91                    | 25.03                          | 24.99                     |                        |             |  |  |
| 10                               | QPSK       | 1       | 49        | 25.08                    | 25.05                          | 25.12                     |                        |             |  |  |
| 10                               | QPSK       | 25      | 0         | 24.11                    | 24.13                          | 24.08                     | 24.5                   | 1           |  |  |
| 10                               | QPSK       | 25      | 12        | 24.20                    | 24.18                          | 24.09                     |                        |             |  |  |
| 10                               | QPSK       | 25      | 25        | 24.20                    | 24.17                          | 24.13                     |                        |             |  |  |
| 10                               | QPSK       | 50      | 0         | 24.13                    | 24.23                          | 24.08                     | 24.5                   | 1           |  |  |
| 10                               | 16QAM      | 1       | 0         | 24.13                    | 24.24                          | 24.16                     |                        |             |  |  |
| 10                               | 16QAM      | 1       | 25        | 24.10                    | 24.14                          | 24.12                     |                        |             |  |  |
| 10                               | 16QAM      | 1       | 49        | 24.22                    | 24.15                          | 24.05                     | 23.5                   | 2           |  |  |
| 10                               | 16QAM      | 25      | 0         | 23.00                    | 23.17                          | 23.08                     |                        |             |  |  |
| 10                               | 16QAM      | 25      | 12        | 23.13                    | 23.24                          | 23.15                     |                        |             |  |  |
| 10                               | 16QAM      | 25      | 25        | 23.18                    | 23.20                          | 23.15                     | 23.5                   | 2           |  |  |
| 10                               | 16QAM      | 50      | 0         | 23.17                    | 23.26                          | 23.08                     |                        |             |  |  |
| 10                               | 64QAM      | 1       | 0         | 22.98                    | 23.36                          | 23.34                     |                        |             |  |  |
| 10                               | 64QAM      | 1       | 25        | 22.91                    | 23.32                          | 22.91                     | 22.5                   | 2           |  |  |
| 10                               | 64QAM      | 1       | 49        | 23.34                    | 23.32                          | 23.29                     |                        |             |  |  |
| 10                               | 64QAM      | 25      | 0         | 22.13                    | 22.12                          | 22.09                     |                        |             |  |  |
| 10                               | 64QAM      | 25      | 12        | 22.08                    | 22.29                          | 22.19                     | 22.5                   | 3           |  |  |
| 10                               | 64QAM      | 25      | 25        | 22.12                    | 22.12                          | 22.20                     |                        |             |  |  |
| 10                               | 64QAM      | 50      | 0         | 22.16                    | 22.17                          | 22.12                     |                        |             |  |  |
| 10                               | 256QAM     | 1       | 0         | 19.84                    | 19.82                          | 19.79                     | 20.5                   | 5           |  |  |
| 10                               | 256QAM     | 1       | 25        | 19.84                    | 19.91                          | 19.84                     |                        |             |  |  |
| 10                               | 256QAM     | 1       | 49        | 19.94                    | 19.98                          | 20.01                     |                        |             |  |  |
| 10                               | 256QAM     | 25      | 0         | 19.99                    | 19.99                          | 19.95                     | 20.5                   | 5           |  |  |
| 10                               | 256QAM     | 25      | 12        | 20.14                    | 20.10                          | 19.97                     |                        |             |  |  |
| 10                               | 256QAM     | 25      | 25        | 20.06                    | 20.03                          | 19.98                     |                        |             |  |  |
| 10                               | 256QAM     | 50      | 0         | 20.01                    | 20.10                          | 19.99                     |                        |             |  |  |
| Channel                          |            |         |           | 37775                    | 38000                          | 38225                     | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
| Frequency (MHz)                  |            |         |           | 2572.5                   | 2595                           | 2617.5                    |                        |             |  |  |
| 5                                | QPSK       | 1       | 0         | 24.87                    | 24.98                          | 24.95                     | 25.5                   | 0           |  |  |
| 5                                | QPSK       | 1       | 12        | 24.90                    | 25.02                          | 24.96                     |                        |             |  |  |
| 5                                | QPSK       | 1       | 24        | 24.99                    | 24.96                          | 24.93                     |                        |             |  |  |
| 5                                | QPSK       | 12      | 0         | 24.15                    | 24.19                          | 24.13                     | 24.5                   | 1           |  |  |
| 5                                | QPSK       | 12      | 7         | 24.14                    | 24.19                          | 24.09                     |                        |             |  |  |
| 5                                | QPSK       | 12      | 13        | 24.15                    | 24.17                          | 24.17                     |                        |             |  |  |
| 5                                | QPSK       | 25      | 0         | 24.12                    | 24.15                          | 24.14                     | 24.5                   | 1           |  |  |
| 5                                | 16QAM      | 1       | 0         | 24.13                    | 24.07                          | 24.05                     |                        |             |  |  |
| 5                                | 16QAM      | 1       | 12        | 24.09                    | 24.14                          | 24.11                     |                        |             |  |  |
| 5                                | 16QAM      | 1       | 24        | 24.21                    | 24.23                          | 24.22                     | 23.5                   | 2           |  |  |
| 5                                | 16QAM      | 12      | 0         | 23.13                    | 23.10                          | 23.06                     |                        |             |  |  |
| 5                                | 16QAM      | 12      | 7         | 23.09                    | 23.15                          | 23.13                     |                        |             |  |  |
| 5                                | 16QAM      | 12      | 13        | 23.12                    | 23.14                          | 23.11                     | 23.5                   | 2           |  |  |
| 5                                | 16QAM      | 25      | 0         | 23.16                    | 23.16                          | 23.14                     |                        |             |  |  |
| 5                                | 64QAM      | 1       | 0         | 22.83                    | 22.84                          | 22.85                     |                        |             |  |  |
| 5                                | 64QAM      | 1       | 12        | 22.94                    | 22.88                          | 22.97                     | 23.5                   | 2           |  |  |
| 5                                | 64QAM      | 1       | 24        | 22.88                    | 22.98                          | 22.99                     |                        |             |  |  |
| 5                                | 64QAM      | 12      | 0         | 22.13                    | 22.13                          | 22.07                     |                        |             |  |  |
| 5                                | 64QAM      | 12      | 7         | 22.09                    | 22.15                          | 22.05                     | 22.5                   | 3           |  |  |
| 5                                | 64QAM      | 12      | 13        | 22.11                    | 22.12                          | 22.07                     |                        |             |  |  |
| 5                                | 64QAM      | 25      | 0         | 22.12                    | 22.09                          | 22.09                     | 20.5                   | 5           |  |  |
| 5                                | 256QAM     | 1       | 0         | 19.79                    | 19.91                          | 19.80                     |                        |             |  |  |
| 5                                | 256QAM     | 1       | 12        | 19.84                    | 19.93                          | 19.88                     |                        |             |  |  |
| 5                                | 256QAM     | 1       | 24        | 19.91                    | 19.89                          | 19.82                     |                        |             |  |  |
| 5                                | 256QAM     | 12      | 0         | 20.00                    | 20.06                          | 20.05                     | 20.5                   | 5           |  |  |
| 5                                | 256QAM     | 12      | 7         | 20.03                    | 20.08                          | 19.95                     |                        |             |  |  |
| 5                                | 256QAM     | 12      | 13        | 20.01                    | 20.02                          | 20.10                     |                        |             |  |  |
| 5                                | 256QAM     | 25      | 0         | 20.02                    | 20.10                          | 20.04                     |                        |             |  |  |

| Ant6 Band 2 Down power / DSI 1 |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
|--------------------------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|--|--|------|---|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Time-up limit (sec) | MPR (dB) |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 20                             | QPSK       | 1       | 0         | 22.37               | 22.40                | 22.37                | 23.2                | 0        |  |  |      |   |  |  |
| 20                             | QPSK       | 1       | 49        | 22.20               | 22.23                | 22.20                |                     |          |  |  |      |   |  |  |
| 20                             | QPSK       | 1       | 99        | 22.03               | 22.07                | 22.07                |                     |          |  |  |      |   |  |  |
| 20                             | QPSK       | 50      | 0         | 22.33               | 22.34                | 22.33                |                     |          |  |  |      |   |  |  |
| 20                             | QPSK       | 50      | 24        | 22.28               | 22.27                | 22.28                | 23.2                | 0        |  |  |      |   |  |  |
| 20                             | QPSK       | 50      | 50        | 22.24               | 22.12                | 22.20                |                     |          |  |  |      |   |  |  |
| 20                             | QPSK       | 100     | 0         | 22.24               | 22.29                | 22.19                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 0         | 22.20               | 22.27                | 22.20                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 49        | 22.36               | 22.18                | 21.98                | 23.2                | 0        |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 99        | 21.89               | 21.91                | 21.89                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 24        | 22.33               | 22.18                | 22.23                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 50        | 22.24               | 22.09                | 22.22                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 100     | 0         | 22.29               | 22.21                | 22.20                | 23.2                | 0        |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 0         | 22.35               | 22.16                | 22.19                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 49        | 22.08               | 22.26                | 21.94                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 99        | 22.33               | 22.05                | 21.96                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 0         | 21.28               | 21.22                | 21.24                | 22.2                | 1        |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 24        | 21.40               | 21.31                | 21.28                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 50      | 50        | 21.44               | 21.34                | 21.39                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 100     | 0         | 21.50               | 21.36                | 21.36                |                     |          |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 0         | 21.30               | 21.39                | 21.33                | 20.2                | 3        |  |  |      |   |  |  |
| 20                             | 16QAM      | 1       | 49        | 19.06               | 19.25                | 19.05                |                     |          |  |  |      |   |  |  |
| 20                             | 256QAM     | 1       | 99        | 18.80               | 19.03                | 19.04                |                     |          |  |  |      |   |  |  |
| 20                             | 256QAM     | 50      | 24        | 18.35               | 19.27                | 19.19                |                     |          |  |  |      |   |  |  |
| 20                             | 256QAM     | 50      | 50        | 19.20               | 19.23                | 19.24                | 20.2                | 3        |  |  |      |   |  |  |
| 20                             | 256QAM     | 100     | 0         | 19.25               | 19.24                | 19.25                |                     |          |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 0         | 22.18               | 22.31                | 22.25                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 37        | 22.09               | 22.18                | 22.06                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 74        | 22.23               | 22.27                | 22.18                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 36      | 0         | 22.19               | 22.22                | 22.06                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 36      | 39        | 22.23               | 22.09                | 22.24                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | 16QAM      | 75      | 0         | 22.15               | 22.04                | 22.09                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 37        | 22.31               | 21.93                | 22.27                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 74        | 22.27               | 22.20                | 22.05                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 0         | 22.29               | 22.20                | 22.06                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 20        | 22.22               | 22.11                | 22.23                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 20        | 22.14               | 22.12                | 22.15                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 75      | 0         | 22.16               | 22.36                | 21.99                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 37        | 22.34               | 21.99                | 22.04                | 22.2                | 1        |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 74        | 22.08               | 22.07                | 22.04                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 39        | 21.27               | 21.27                | 21.25                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 75      | 0         | 21.45               | 21.31                | 21.24                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 1       | 99        | 18.85               | 19.06                | 18.86                | 20.2                | 3        |  |  |      |   |  |  |
| 16                             | 256QAM     | 1       | 37        | 19.05               | 19.14                | 19.12                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 1       | 74        | 19.17               | 19.23                | 19.03                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 36      | 20        | 19.25               | 19.14                | 19.20                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 36      | 20        | 19.25               | 19.14                | 19.20                | 20.2                | 3        |  |  |      |   |  |  |
| 16                             | 256QAM     | 36      | 39        | 19.29               | 19.22                | 19.33                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 75      | 0         | 19.17               | 19.26                | 19.27                |                     |          |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 0         | 22.18               | 22.34                | 22.24                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 25        | 22.34               | 22.08                | 22.17                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 1       | 49        | 21.85               | 22.06                | 22.08                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 12      | 0         | 22.28               | 22.23                | 22.06                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 25      | 12        | 22.23               | 22.15                | 22.26                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | QPSK       | 25      | 25        | 22.24               | 22.16                | 22.16                |                     |          |  |  |      |   |  |  |
| 16                             | QPSK       | 25      | 12        | 22.18               | 22.11                | 22.19                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 0         | 21.91               | 21.95                | 21.89                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 25        | 22.24               | 22.32                | 21.96                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 49        | 22.14               | 22.21                | 22.06                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 25      | 0         | 22.28               | 22.12                | 22.14                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 25      | 12        | 22.18               | 22.21                | 22.08                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 0         | 22.23               | 22.13                | 22.26                | 23.2                | 0        |  |  |      |   |  |  |
| 16                             | 16QAM      | 36      | 20        | 22.13               | 22.11                | 22.19                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 50      | 0         | 22.13               | 22.11                | 22.19                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 0         | 22.08               | 22.38                | 22.26                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 1       | 49        | 22.16               | 22.36                | 22.39                | 22.2                | 1        |  |  |      |   |  |  |
| 16                             | 16QAM      | 25      | 0         | 21.29               | 21.31                | 21.27                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 25      | 12        | 21.33               | 21.42                | 21.36                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 25      | 25        | 21.51               | 21.29                | 21.31                |                     |          |  |  |      |   |  |  |
| 16                             | 16QAM      | 50      | 0         | 21.49               | 21.35                | 21.41                | 22.2                | 1        |  |  |      |   |  |  |
| 16                             | 16QAM      | 50      | 0         | 19.88               | 19.88                | 19.88                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 1       | 25        | 19.25               | 19.03                | 18.96                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 1       | 49        | 18.81               | 19.01                | 18.93                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 25      | 0         | 19.15               | 19.21                | 19.14                | 20.2                | 3        |  |  |      |   |  |  |
| 16                             | 256QAM     | 25      | 12        | 19.20               | 19.16                | 19.26                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 25      | 25        | 19.30               | 19.23                | 19.30                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 50      | 0         | 19.24               | 19.14                | 19.16                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 50      | 12        | 19.18               | 19.06                | 19.26                | 20.2                | 2        |  |  |      |   |  |  |
| 16                             | 256QAM     | 50      | 25        | 19.21               | 19.14                | 19.12                |                     |          |  |  |      |   |  |  |
| 16                             | 256QAM     | 50      | 0         | 19.19               | 19.04                | 19.09                |                     |          |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 5                              | QPSK       | 1       | 0         | 22.22               | 22.24                | 22.30                |                     |          |  |  | 23.2 | 0 |  |  |
| 5                              | QPSK       | 1       | 12        | 22.33               | 22.28                | 22.33                |                     |          |  |  |      |   |  |  |
| 5                              | QPSK       | 1       | 24        | 22.38               | 22.17                | 22.24                |                     |          |  |  |      |   |  |  |
| 5                              | QPSK       | 12      | 0         | 22.23               | 22.10                | 22.03                |                     |          |  |  |      |   |  |  |
| 5                              | QPSK       | 12      | 7         | 22.19               | 22.12                | 22.33                | 23.2                | 0        |  |  |      |   |  |  |
| 5                              | QPSK       | 12      | 13        | 22.26               | 22.30                | 22.30                |                     |          |  |  |      |   |  |  |
| 5                              | QPSK       | 25      | 0         | 22.30               | 22.22                | 22.12                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 0         | 21.88               | 22.14                | 22.05                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 12        | 22.24               | 21.91                | 21.91                | 23.2                | 0        |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 24        | 21.97               | 22.20                | 22.20                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 0         | 22.24               | 22.08                | 22.05                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 7         | 22.24               | 22.15                | 22.18                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 13        | 22.20               | 21.99                | 22.04                | 23.2                | 0        |  |  |      |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 22.32               | 22.14                | 22.16                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 0         | 22.14               | 21.86                | 21.88                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 12        | 22.09               | 21.83                | 22.03                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 1       | 24        | 22.33               | 22.16                | 22.17                | 22.2                | 1        |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 0         | 21.40               | 21.34                | 21.37                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 7         | 21.50               | 21.46                | 21.41                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 12      | 13        | 21.42               | 21.41                | 21.47                |                     |          |  |  |      |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 21.48               | 21.32                | 21.34                | 20.2                | 3        |  |  |      |   |  |  |
| 5                              | 16QAM      | 25      | 0         | 19.23               | 19.28                | 19.30                |                     |          |  |  |      |   |  |  |
| 5                              | 256QAM     | 1       | 12        |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 5                              | 256QAM     | 1       | 12        | 19.16               | 19.28                | 19.30                | 20.2                | 3        |  |  |      |   |  |  |
| 5                              | 256QAM     | 1       | 24        | 19.16               | 19.16                | 19.15                |                     |          |  |  |      |   |  |  |
| 5                              | 256QAM     | 12      | 0         | 19.29               | 19.16                | 19.18                |                     |          |  |  |      |   |  |  |
| 5                              | 256QAM     | 12      | 7         | 19.29               | 19.16                | 19.18                |                     |          |  |  |      |   |  |  |
| 5                              | 256QAM     | 12      | 13        | 19.21               | 19.27                | 19.30                | 20.2                | 3        |  |  |      |   |  |  |
| 5                              | 256QAM     | 25      | 0         | 19.27               | 19.21                | 19.19                |                     |          |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 3                              | QPSK       | 1       | 0         | 22.15               | 22.17                | 22.20                | 23.2                | 0        |  |  |      |   |  |  |
| 3                              | QPSK       | 1       | 12        | 22.29               | 22.24                | 22.29                |                     |          |  |  |      |   |  |  |
| 3                              | QPSK       | 1       | 24        | 22.38               | 22.17                | 22.24                |                     |          |  |  |      |   |  |  |
| 3                              | QPSK       | 12      | 0         | 22.22               | 22.11                | 22.10                |                     |          |  |  |      |   |  |  |
| 3                              | QPSK       | 8       | 4         | 22.07               | 22.14                | 22.25                | 23.2                | 0        |  |  |      |   |  |  |
| 3                              | QPSK       | 8       | 12        | 22.21               | 22.11                | 22.17                |                     |          |  |  |      |   |  |  |
| 3                              | QPSK       | 16      | 0         | 22.27               | 22.10                | 22.24                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 0         | 21.84               | 22.10                | 22.01                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 8         | 21.99               | 21.86                | 22.00                | 23.2                | 0        |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 16        | 22.02               | 22.17                | 22.15                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 8       | 4         | 22.26               | 22.25                | 22.21                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 8       | 8         | 22.13               | 22.10                | 22.28                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 0         | 22.11               | 22.11                | 22.11                | 23.2                | 0        |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 8         | 22.18               | 22.10                | 22.03                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 1       | 16        | 22.28               | 22.16                | 22.27                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 8       | 0         | 21.63               | 21.31                | 21.30                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 8       | 4         | 21.58               | 21.34                | 21.29                | 22.2                | 1        |  |  |      |   |  |  |
| 3                              | 16QAM      | 8       | 8         | 21.58               | 21.34                | 21.29                |                     |          |  |  |      |   |  |  |
| 3                              | 16QAM      | 16      | 0         | 21.48               | 21.24                | 21.21                |                     |          |  |  |      |   |  |  |
| 3                              | 256QAM     | 1       | 0         | 19.12               | 19.16                | 19.05                |                     |          |  |  |      |   |  |  |
| 3                              | 256QAM     | 1       | 8         | 19.12               | 19.16                | 19.05                | 20.2                | 3        |  |  |      |   |  |  |
| 3                              | 256QAM     | 1       | 16        | 19.12               | 19.16                | 19.05                |                     |          |  |  |      |   |  |  |
| 3                              | 256QAM     | 8       | 0         | 19.36               | 19.17                | 19.17                |                     |          |  |  |      |   |  |  |
| 3                              | 256QAM     | 8       | 4         | 19.39               | 19.23                | 19.21                |                     |          |  |  |      |   |  |  |
| 3                              | 256QAM     | 8       | 8         | 19.27               | 19.20                | 19.24                | 20.2                | 3        |  |  |      |   |  |  |
| 3                              | 256QAM     | 15      | 0         | 19.35               | 19.20                | 19.25                |                     |          |  |  |      |   |  |  |
| Channel                        |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| Frequency (MHz)                |            |         |           |                     |                      |                      |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 1       | 0         | 22.22               | 22.21                | 22.12                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 1       | 12        | 22.33               | 22.23                | 22.22                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 1       | 24        | 22.37               | 22.21                | 22.27                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 1       | 36        | 22.31               | 22.18                | 22.22                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 3       | 0         | 22.21               | 22.01                | 22.18                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 3       | 12        | 22.35               | 22.11                | 22.19                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 3       | 24        | 22.39               | 22.21                | 22.27                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 3       | 36        | 22.31               | 22.18                | 22.22                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 15      | 0         | 22.19               | 22.11                | 22.19                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 15      | 12        | 22.36               | 22.23                | 22.24                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 15      | 24        | 22.40               | 22.27                | 22.27                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 15      | 36        | 22.32               | 22.19                | 22.23                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 30      | 0         | 22.26               | 22.23                | 22.24                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 30      | 12        | 22.41               | 22.27                | 22.27                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 30      | 24        | 22.45               | 22.32                | 22.32                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 30      | 36        | 22.37               | 22.24                | 22.28                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 60      | 0         | 22.30               | 22.27                | 22.27                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 60      | 12        | 22.45               | 22.32                | 22.32                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 60      | 24        | 22.49               | 22.36                | 22.36                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 60      | 36        | 22.41               | 22.28                | 22.32                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 120     | 0         | 22.34               | 22.30                | 22.30                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 120     | 12        | 22.49               | 22.36                | 22.36                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 120     | 24        | 22.53               | 22.40                | 22.40                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 120     | 36        | 22.45               | 22.32                | 22.36                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 240     | 0         | 22.38               | 22.34                | 22.34                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 240     | 12        | 22.53               | 22.40                | 22.40                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 240     | 24        | 22.57               | 22.44                | 22.44                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 240     | 36        | 22.49               | 22.36                | 22.40                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 480     | 0         | 22.42               | 22.38                | 22.38                | 23.2                | 0        |  |  |      |   |  |  |
| 1.4                            | QPSK       | 480     | 12        | 22.57               | 22.44                | 22.44                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 480     | 24        | 22.61               | 22.48                | 22.48                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 480     | 36        | 22.53               | 22.40                | 22.44                |                     |          |  |  |      |   |  |  |
| 1.4                            | QPSK       | 960     | 0         | 22.46               | 22.42                | 22.42                | 23.2</              |          |  |  |      |   |  |  |

| Ant6 Band 7 Down power / DSI 1 |            |         |           |                      |                      |                       |                     |          |  |  |
|--------------------------------|------------|---------|-----------|----------------------|----------------------|-----------------------|---------------------|----------|--|--|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Time-up limit (Sec) | MPR (dB) |  |  |
| Channel                        |            |         |           |                      |                      |                       |                     |          |  |  |
| Frequency (MHz)                |            |         |           |                      |                      |                       |                     |          |  |  |
| 20                             | QPSK       | 1       | 0         | 20.98                | 21.24                | 20.96                 |                     |          |  |  |
| 20                             | QPSK       | 1       | 49        | 20.91                | 20.98                | 21.09                 | 21.5                | 0        |  |  |
| 20                             | QPSK       | 1       | 99        | 20.89                | 21.06                | 20.81                 |                     |          |  |  |
| 20                             | QPSK       | 50      | 0         | 20.70                | 21.11                | 20.96                 |                     |          |  |  |
| 20                             | QPSK       | 50      | 24        | 20.78                | 20.90                | 21.02                 | 21.5                | 0        |  |  |
| 20                             | QPSK       | 50      | 50        | 21.06                | 21.00                | 21.01                 |                     |          |  |  |
| 20                             | QPSK       | 100     | 0         | 20.76                | 21.13                | 21.13                 |                     |          |  |  |
| 20                             | 16QAM      | 1       | 0         | 20.82                | 20.91                | 20.85                 |                     |          |  |  |
| 20                             | 16QAM      | 1       | 49        | 21.02                | 20.88                | 20.89                 | 21.5                | 0        |  |  |
| 20                             | 16QAM      | 1       | 99        | 20.91                | 21.12                | 20.89                 |                     |          |  |  |
| 20                             | 16QAM      | 50      | 0         | 20.79                | 20.90                | 20.87                 |                     |          |  |  |
| 20                             | 16QAM      | 50      | 24        | 21.00                | 20.96                | 21.19                 | 21.5                | 0        |  |  |
| 20                             | 16QAM      | 50      | 50        | 20.90                | 21.06                | 21.01                 |                     |          |  |  |
| 20                             | 16QAM      | 100     | 0         | 20.78                | 20.96                | 21.04                 |                     |          |  |  |
| 20                             | 64QAM      | 1       | 0         | 20.81                | 20.87                | 20.74                 | 21.5                | 0        |  |  |
| 20                             | 64QAM      | 1       | 49        | 21.07                | 21.01                | 20.91                 |                     |          |  |  |
| 20                             | 64QAM      | 1       | 99        | 21.21                | 21.05                | 20.94                 |                     |          |  |  |
| 20                             | 64QAM      | 50      | 0         | 20.72                | 20.82                | 21.04                 |                     |          |  |  |
| 20                             | 64QAM      | 50      | 24        | 20.92                | 20.94                | 21.01                 | 21.5                | 0        |  |  |
| 20                             | 64QAM      | 50      | 50        | 20.88                | 20.96                | 21.07                 |                     |          |  |  |
| 20                             | 64QAM      | 100     | 0         | 20.80                | 20.90                | 21.21                 |                     |          |  |  |
| 20                             | 256QAM     | 1       | 0         | 19.53                | 19.69                | 19.62                 | 20.5                | 1        |  |  |
| 20                             | 256QAM     | 1       | 49        | 19.58                | 19.69                | 19.74                 |                     |          |  |  |
| 20                             | 256QAM     | 1       | 99        | 19.48                | 19.71                | 19.50                 |                     |          |  |  |
| 20                             | 256QAM     | 50      | 0         | 19.57                | 19.69                | 19.65                 |                     |          |  |  |
| 20                             | 256QAM     | 50      | 24        | 19.72                | 19.72                | 19.84                 | 20.5                | 1        |  |  |
| 20                             | 256QAM     | 50      | 50        | 19.63                | 19.81                | 19.92                 |                     |          |  |  |
| 20                             | 256QAM     | 100     | 0         | 19.76                | 19.73                | 19.89                 |                     |          |  |  |
| Channel                        |            |         |           |                      |                      |                       |                     |          |  |  |
| Frequency (MHz)                |            |         |           |                      |                      |                       |                     |          |  |  |
| 15                             | QPSK       | 1       | 0         | 20.58                | 20.68                | 20.90                 |                     |          |  |  |
| 15                             | QPSK       | 1       | 37        | 20.48                | 20.84                | 20.94                 | 21.5                | 0        |  |  |
| 15                             | QPSK       | 1       | 74        | 20.68                | 20.87                | 20.63                 |                     |          |  |  |
| 15                             | QPSK       | 36      | 0         | 20.59                | 20.86                | 20.94                 |                     |          |  |  |
| 15                             | QPSK       | 36      | 20        | 20.84                | 20.86                | 21.09                 | 21.5                | 0        |  |  |
| 15                             | QPSK       | 36      | 39        | 20.95                | 21.04                | 21.00                 |                     |          |  |  |
| 15                             | QPSK       | 75      | 0         | 20.69                | 20.75                | 21.09                 |                     |          |  |  |
| 15                             | 16QAM      | 1       | 0         | 20.93                | 20.93                | 20.88                 |                     |          |  |  |
| 15                             | 16QAM      | 1       | 37        | 20.96                | 20.96                | 21.12                 | 21.5                | 0        |  |  |
| 15                             | 16QAM      | 1       | 74        | 21.05                | 21.11                | 20.87                 |                     |          |  |  |
| 15                             | 16QAM      | 36      | 0         | 20.83                | 20.85                | 20.88                 |                     |          |  |  |
| 15                             | 16QAM      | 36      | 20        | 20.92                | 20.92                | 21.13                 | 21.5                | 0        |  |  |
| 15                             | 16QAM      | 36      | 39        | 20.92                | 20.92                | 21.07                 |                     |          |  |  |
| 15                             | 16QAM      | 75      | 0         | 20.89                | 20.90                | 20.85                 |                     |          |  |  |
| 15                             | 64QAM      | 1       | 0         | 20.67                | 21.20                | 21.01                 |                     |          |  |  |
| 15                             | 64QAM      | 1       | 37        | 20.81                | 20.92                | 21.05                 | 21.5                | 0        |  |  |
| 15                             | 64QAM      | 1       | 74        | 20.94                | 20.90                | 20.73                 |                     |          |  |  |
| 15                             | 64QAM      | 36      | 0         | 20.85                | 20.87                | 20.96                 |                     |          |  |  |
| 15                             | 64QAM      | 36      | 20        | 20.86                | 20.87                | 21.00                 | 21.5                | 0        |  |  |
| 15                             | 64QAM      | 36      | 39        | 20.85                | 20.84                | 21.14                 |                     |          |  |  |
| 15                             | 64QAM      | 75      | 0         | 20.62                | 20.88                | 21.15                 |                     |          |  |  |
| 15                             | 256QAM     | 1       | 0         | 19.54                | 19.67                | 19.65                 | 20.5                | 1        |  |  |
| 15                             | 256QAM     | 1       | 37        | 19.58                | 19.75                | 19.78                 |                     |          |  |  |
| 15                             | 256QAM     | 1       | 74        | 19.67                | 19.78                | 19.62                 |                     |          |  |  |
| 15                             | 256QAM     | 36      | 0         | 19.64                | 19.80                | 19.81                 |                     |          |  |  |
| 15                             | 256QAM     | 36      | 20        | 19.75                | 19.77                | 19.89                 | 20.5                | 1        |  |  |
| 15                             | 256QAM     | 36      | 39        | 19.80                | 19.84                | 19.88                 |                     |          |  |  |
| 15                             | 256QAM     | 75      | 0         | 19.76                | 19.78                | 19.86                 |                     |          |  |  |
| Channel                        |            |         |           |                      |                      |                       |                     |          |  |  |
| Frequency (MHz)                |            |         |           |                      |                      |                       |                     |          |  |  |
| 10                             | QPSK       | 1       | 0         | 20.67                | 20.75                | 20.95                 |                     |          |  |  |
| 10                             | QPSK       | 1       | 25        | 20.68                | 20.75                | 20.78                 | 21.5                | 0        |  |  |
| 10                             | QPSK       | 1       | 49        | 20.79                | 20.84                | 20.99                 |                     |          |  |  |
| 10                             | QPSK       | 12      | 0         | 20.78                | 20.81                | 21.02                 |                     |          |  |  |
| 10                             | QPSK       | 25      | 12        | 20.72                | 20.85                | 20.93                 | 21.5                | 0        |  |  |
| 10                             | QPSK       | 25      | 25        | 20.71                | 20.82                | 21.07                 |                     |          |  |  |
| 10                             | QPSK       | 50      | 0         | 20.81                | 20.87                | 21.06                 |                     |          |  |  |
| 10                             | 16QAM      | 1       | 0         | 20.90                | 21.08                | 21.02                 |                     |          |  |  |
| 10                             | 16QAM      | 1       | 25        | 21.06                | 20.85                | 20.99                 | 21.5                | 0        |  |  |
| 10                             | 16QAM      | 1       | 49        | 20.85                | 20.88                | 21.02                 |                     |          |  |  |
| 10                             | 16QAM      | 25      | 0         | 20.77                | 20.72                | 20.93                 |                     |          |  |  |
| 10                             | 16QAM      | 25      | 12        | 20.83                | 20.89                | 21.04                 | 21.5                | 0        |  |  |
| 10                             | 16QAM      | 25      | 25        | 20.78                | 20.88                | 21.00                 |                     |          |  |  |
| 10                             | 16QAM      | 50      | 0         | 20.88                | 20.84                | 20.94                 |                     |          |  |  |
| 10                             | 64QAM      | 1       | 0         | 20.95                | 21.06                | 21.13                 | 21.5                | 0        |  |  |
| 10                             | 64QAM      | 1       | 25        | 21.08                | 20.70                | 20.85                 |                     |          |  |  |
| 10                             | 64QAM      | 1       | 49        | 21.01                | 21.09                | 21.20                 |                     |          |  |  |
| 10                             | 64QAM      | 25      | 0         | 20.81                | 20.95                | 21.00                 |                     |          |  |  |
| 10                             | 64QAM      | 25      | 12        | 20.90                | 20.71                | 21.04                 | 21.5                | 0        |  |  |
| 10                             | 64QAM      | 25      | 25        | 20.79                | 20.82                | 21.07                 |                     |          |  |  |
| 10                             | 64QAM      | 50      | 0         | 21.03                | 21.17                | 21.02                 |                     |          |  |  |
| 10                             | 256QAM     | 1       | 0         | 19.44                | 19.48                | 19.76                 | 20.5                | 1        |  |  |
| 10                             | 256QAM     | 1       | 25        | 19.44                | 19.52                | 19.85                 |                     |          |  |  |
| 10                             | 256QAM     | 1       | 49        | 19.67                | 19.58                | 19.82                 |                     |          |  |  |
| 10                             | 256QAM     | 25      | 0         | 19.68                | 19.75                | 19.93                 |                     |          |  |  |
| 10                             | 256QAM     | 25      | 12        | 19.74                | 19.75                | 19.86                 | 20.5                | 1        |  |  |
| 10                             | 256QAM     | 25      | 25        | 19.73                | 19.76                | 19.91                 |                     |          |  |  |
| 10                             | 256QAM     | 50      | 0         | 19.73                | 19.68                | 19.99                 |                     |          |  |  |
| Channel                        |            |         |           |                      |                      |                       |                     |          |  |  |
| Frequency (MHz)                |            |         |           |                      |                      |                       |                     |          |  |  |
| 5                              | QPSK       | 1       | 0         | 20.59                | 20.68                | 20.89                 |                     |          |  |  |
| 5                              | QPSK       | 1       | 12        | 20.68                | 20.74                | 20.97                 | 21.5                | 0        |  |  |
| 5                              | QPSK       | 1       | 24        | 20.85                | 20.99                | 20.82                 |                     |          |  |  |
| 5                              | QPSK       | 12      | 0         | 20.78                | 20.91                | 21.02                 |                     |          |  |  |
| 5                              | QPSK       | 12      | 7         | 20.74                | 20.89                | 21.14                 | 21.5                | 0        |  |  |
| 5                              | QPSK       | 12      | 13        | 20.79                | 20.87                | 21.12                 |                     |          |  |  |
| 5                              | QPSK       | 25      | 0         | 20.91                | 20.87                | 21.06                 |                     |          |  |  |
| 5                              | 16QAM      | 1       | 0         | 20.99                | 21.08                | 21.09                 |                     |          |  |  |
| 5                              | 16QAM      | 1       | 12        | 21.14                | 21.02                | 21.19                 | 21.5                | 0        |  |  |
| 5                              | 16QAM      | 1       | 24        | 21.13                | 20.93                | 21.02                 |                     |          |  |  |
| 5                              | 16QAM      | 12      | 0         | 20.92                | 20.88                | 21.15                 |                     |          |  |  |
| 5                              | 16QAM      | 12      | 7         | 20.77                | 20.83                | 21.06                 | 21.5                | 0        |  |  |
| 5                              | 16QAM      | 12      | 13        | 20.98                | 20.96                | 21.12                 |                     |          |  |  |
| 5                              | 16QAM      | 25      | 0         | 20.91                | 20.79                | 21.04                 |                     |          |  |  |
| 5                              | 64QAM      | 1       | 0         | 20.79                | 21.03                | 21.03                 | 21.5                | 0        |  |  |
| 5                              | 64QAM      | 1       | 12        | 21.12                | 21.00                | 21.06                 |                     |          |  |  |
| 5                              | 64QAM      | 1       | 24        | 20.99                | 21.19                | 21.14                 |                     |          |  |  |
| 5                              | 64QAM      | 12      | 0         | 20.80                | 20.87                | 20.95                 |                     |          |  |  |
| 5                              | 64QAM      | 12      | 7         | 20.82                | 20.87                | 21.09                 | 21.5                | 0        |  |  |
| 5                              | 64QAM      | 12      | 13        | 20.72                | 21.02                | 20.87                 |                     |          |  |  |
| 5                              | 64QAM      | 25      | 0         | 20.91                | 21.01                | 21.06                 |                     |          |  |  |
| 5                              | 256QAM     | 1       | 0         | 19.51                | 19.59                | 19.80                 | 20.5                | 1        |  |  |
| 5                              | 256QAM     | 1       | 12        | 19.55                | 19.73                | 19.82                 |                     |          |  |  |
| 5                              | 256QAM     | 1       | 24        | 19.73                | 19.81                | 19.82                 |                     |          |  |  |
| 5                              | 256QAM     | 12      | 0         | 19.77                | 19.80                | 19.88                 | 20.5                | 1        |  |  |
| 5                              | 256QAM     | 12      | 7         | 19.72                | 19.82                | 19.83                 |                     |          |  |  |
| 5                              | 256QAM     | 12      | 13        | 19.77                | 19.86                | 19.89                 |                     |          |  |  |
| 5                              | 256QAM     | 25      | 0         | 19.67                | 19.76                | 19.82                 |                     |          |  |  |

| Ant6 Band 7 Down power / DSI 3/5 |            |         |           |                      |                      |                       |                     |          |  |  |
|----------------------------------|------------|---------|-----------|----------------------|----------------------|-----------------------|---------------------|----------|--|--|
| BW (MHz)                         | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Mid Ch / Freq. | Power High Ch / Freq. | Time-up limit (sec) | MPR (dB) |  |  |
| Channel                          |            |         |           |                      |                      |                       |                     |          |  |  |
| Frequency (MHz)                  |            |         |           |                      |                      |                       |                     |          |  |  |
| 20                               | QPSK       | 1       | 0         | 19.87                | 19.85                | 19.85                 |                     |          |  |  |
| 20                               | QPSK       | 1       | 49        | 19.85                | 19.82                | 19.83                 | 19.5                | 0        |  |  |
| 20                               | QPSK       | 1       | 99        | 19.78                | 19.61                | 19.77                 |                     |          |  |  |
| 20                               | QPSK       | 50      | 0         | 19.74                | 19.10                | 19.85                 |                     |          |  |  |
| 20                               | QPSK       | 50      | 24        | 19.74                | 19.81                | 19.87                 | 19.5                | 0        |  |  |
| 20                               | QPSK       | 50      | 50        | 19.01                | 19.88                | 19.95                 |                     |          |  |  |
| 20                               | QPSK       | 100     | 0         | 19.87                | 19.12                | 19.85                 |                     |          |  |  |
| 20                               | 16QAM      | 1       | 0         | 19.77                | 19.82                | 19.82                 |                     |          |  |  |
| 20                               | 16QAM      | 1       | 49        | 19.99                | 19.95                | 19.83                 | 19.5                | 0        |  |  |
| 20                               | 16QAM      | 1       | 99        | 19.15                | 19.11                | 19.81                 |                     |          |  |  |
| 20                               | 16QAM      | 50      | 0         | 19.84                | 19.77                | 19.83                 |                     |          |  |  |
| 20                               | 16QAM      | 50      | 24        | 19.84                | 19.88                | 19.95                 | 19.5                | 0        |  |  |
| 20                               | 16QAM      | 50      | 50        | 19.82                | 19.90                | 19.12                 |                     |          |  |  |
| 20                               | 16QAM      | 100     | 0         | 19.78                | 19.79                | 19.16                 |                     |          |  |  |
| 20                               | 256QAM     | 1       | 0         | 19.87                | 19.88                | 19                    |                     |          |  |  |
| 20                               | 256QAM     | 1       | 49        | 19.87                | 19.88                | 19.87                 | 19.5                | 0        |  |  |
| 20                               | 256QAM     | 1       | 99        | 19.77                | 19.80                | 19.80                 |                     |          |  |  |
| 20                               | 256QAM     | 50      | 0         | 19.87                | 19.88                | 19.87                 |                     |          |  |  |
| 20                               | 256QAM     | 50      | 24        | 19.71                | 19.73                | 19.80                 | 19.5                | 0        |  |  |
| 20                               | 256QAM     | 50      | 50        | 19.87                | 19.81                | 19.87                 |                     |          |  |  |
| 20                               | 256QAM     | 100     | 0         | 19.77                | 19.08                | 19.80                 |                     |          |  |  |
| Channel                          |            |         |           | 20000                | 21100                | 21900                 |                     |          |  |  |
| Frequency (MHz)                  |            |         |           |                      |                      |                       |                     |          |  |  |
| 15                               | QPSK       | 1       | 0         | 19.86                | 19.77                | 19.82                 |                     |          |  |  |
| 15                               | QPSK       | 1       | 37        | 19.82                | 19.83                | 19.83                 |                     |          |  |  |
| 15                               | QPSK       | 1       | 74        | 19.83                | 19.83                | 19.83                 |                     |          |  |  |
| 15                               | QPSK       | 36      | 0         | 19.66                | 19.81                | 19.85                 |                     |          |  |  |
| 15                               | QPSK       | 36      | 20        | 19.88                | 19.95                | 19.88                 | 19.5                | 0        |  |  |
| 15                               | QPSK       | 36      | 56        | 19.82                | 19.82                | 19.82                 |                     |          |  |  |
| 15                               | QPSK       | 72      | 0         | 19.87                | 19.83                | 19.10                 |                     |          |  |  |
| 15                               | 16QAM      | 1       | 0         | 19.86                | 19.86                | 19.91                 |                     |          |  |  |
| 15                               | 16QAM      | 1       | 37        | 19.82                | 19.82                | 19.82                 | 19.5                | 0        |  |  |
| 15                               | 16QAM      | 1       | 74        | 19.07                | 19.02                | 19.88                 |                     |          |  |  |
| 15                               | 16QAM      | 36      | 0         | 19.74                | 19.84                | 19.87                 |                     |          |  |  |
| 15                               | 16QAM      | 36      | 20        | 19.84                | 19.84                | 19.13                 | 19.5                | 0        |  |  |
| 15                               | 16QAM      | 36      | 56        | 19.82                | 19.97                | 19.12                 |                     |          |  |  |
| 15                               | 16QAM      | 72      | 0         | 19.97                | 19.83                | 19.86                 |                     |          |  |  |
| 15                               | 16QAM      | 72      | 0         | 19.81                | 19.88                | 19.16                 |                     |          |  |  |
| 15                               | 64QAM      | 1       | 0         | 19.84                | 19.92                | 19.81                 |                     |          |  |  |
| 15                               | 64QAM      | 1       | 37        | 19.82                | 19.82                | 19.82                 | 19.5                | 0        |  |  |
| 15                               | 64QAM      | 36      | 20        | 19.95                | 19.82                | 19.80                 |                     |          |  |  |
| 15                               | 64QAM      | 36      | 56        | 19.87                | 19.97                | 19.03                 | 19.5                | 0        |  |  |
| 15                               | 64QAM      | 72      | 0         | 19.82                | 19.82                | 19.82                 |                     |          |  |  |
| 15                               | 256QAM     | 1       | 0         | 19.87                | 19.88                | 19.87                 |                     |          |  |  |
| 15                               | 256QAM     | 1       | 37        | 19.84                | 19.84                | 19.84                 | 19.5                | 0        |  |  |
| 15                               | 256QAM     | 1       | 74        | 19.84                | 19.84                | 19.84                 |                     |          |  |  |
| 15                               | 256QAM     | 36      | 0         | 19.62                | 19.84                | 19.86                 |                     |          |  |  |
| 15                               | 256QAM     | 36      | 20        | 19.84                | 19.73                | 19.80                 | 19.5                | 0        |  |  |
| 15                               | 256QAM     | 36      | 56        | 19.82                | 19.70                | 19.86                 |                     |          |  |  |
| 15                               | 256QAM     | 36      | 56        | 19.79                | 19.78                | 19.82                 | 19.5                | 0        |  |  |
| 15                               | 256QAM     | 72      | 0         | 19.87                | 19.87                | 19.87                 |                     |          |  |  |
| 15                               | 256QAM     | 72      | 0         | 19.75                | 19.80                | 19.86                 |                     |          |  |  |
| Channel                          |            |         |           | 20000                | 21100                | 21900                 |                     |          |  |  |
| Frequency (MHz)                  |            |         |           |                      |                      |                       |                     |          |  |  |
| 10                               | QPSK       | 1       | 0         | 19.88                | 19.88                | 19.88                 |                     |          |  |  |
| 10                               | QPSK       | 1       | 26        | 19.80                | 19.84                | 19.70                 | 19.0                | 0        |  |  |
| 10                               | QPSK       | 1       | 49        | 19.79                | 19.72                | 19.80                 |                     |          |  |  |
| 10                               | QPSK       | 1       | 72        | 19.78                | 19.80                | 19.80                 |                     |          |  |  |
| 10                               | QPSK       | 20      | 12        | 19.77                | 19.80                | 19.01                 | 19.0                | 0        |  |  |
| 10                               | QPSK       | 20      | 26        | 19.80                | 19.89                | 19.89                 |                     |          |  |  |
| 10                               | QPSK       | 20      | 50        | 19.80                | 19.78                | 19.02                 |                     |          |  |  |
| 10                               | 16QAM      | 1       | 0         | 19.91                | 19.91                | 19.97                 |                     |          |  |  |
| 10                               | 16QAM      | 1       | 26        | 19.74                | 19.79                | 19.79                 | 19.0                | 0        |  |  |
| 10                               | 16QAM      | 1       | 49        | 19.72                | 19.81                | 19.08                 |                     |          |  |  |
| 10                               | 16QAM      | 20      | 0         | 19.75                | 19.72                | 19.03                 |                     |          |  |  |
| 10                               | 16QAM      | 20      | 26        | 19.81                | 19.81                | 19.81                 | 19.0                | 0        |  |  |
| 10                               | 16QAM      | 20      | 50        | 19.91                | 19.92                | 19.07                 |                     |          |  |  |
| 10                               | 16QAM      | 50      | 0         | 19.79                | 19.85                | 19.04                 |                     |          |  |  |
| 10                               | 16QAM      | 50      | 26        | 19.86                | 19.86                | 19.06                 | 19.0                | 0        |  |  |
| 10                               | 16QAM      | 50      | 50        | 19.84                | 19.84                | 19.04                 |                     |          |  |  |
| 10                               | 16QAM      | 100     | 0         | 19.87                | 19.87                | 19.87                 |                     |          |  |  |
| 10                               | 16QAM      | 100     | 0         | 19.87                | 19.87                | 19.87                 | 19.0                | 0        |  |  |
| 10                               | 64QAM      | 1       | 0         | 19.88                | 19.88                | 19.88                 |                     |          |  |  |
| 10                               | 64QAM      | 1       | 26        | 19.84                | 19.84                | 19.84                 | 19.0                | 0        |  |  |
| 10                               | 64QAM      | 1       | 49        | 19.01                | 19.06                | 19.16                 |                     |          |  |  |
| 10                               | 64QAM      | 20      | 12        | 19.88                | 19.77                | 19.04                 |                     |          |  |  |
| 10                               | 64QAM      | 20      | 26        | 19.85                | 19.81                | 19.16                 |                     |          |  |  |
| 10                               | 64QAM      | 20      | 50        | 19.84                | 19.84                | 19.04                 | 19.0                | 0        |  |  |
| 10                               | 64QAM      | 50      | 0         | 19.87                | 19.74                | 19.74                 |                     |          |  |  |
| 10                               | 64QAM      | 50      | 26        | 19.87                | 19.74                | 19.74                 | 19.0                | 0        |  |  |
| 10                               | 64QAM      | 50      | 50        | 19.87                | 19.74                | 19.74                 |                     |          |  |  |
| 10                               | 256QAM     | 1       | 0         | 19.87                | 19.87                | 19.87                 |                     |          |  |  |
| 10                               | 256QAM     | 1       | 26        | 19.78                | 19.78                | 19.80                 | 19.0                | 0        |  |  |
| 10                               | 256QAM     | 1       | 49        | 19.87                | 19.87                | 19.87                 |                     |          |  |  |
| 10                               | 256QAM     | 1       | 72        | 19.87                | 19.80                | 19.82                 |                     |          |  |  |
| Channel                          |            |         |           | 20775                | 21100                | 21425                 |                     |          |  |  |
| Frequency (MHz)                  |            |         |           |                      |                      |                       |                     |          |  |  |
| 5                                | QPSK       | 1       | 0         | 19.80                | 19.89                | 19.89                 |                     |          |  |  |
| 5                                | QPSK       | 1       | 12        | 19.71                | 19.83                | 19.83                 | 19.5                | 0        |  |  |
| 5                                | QPSK       | 1       | 24        | 19.80                | 19.92                | 19.89                 |                     |          |  |  |
| 5                                | QPSK       | 12      | 0         | 19.84                | 19.84                | 19.84                 |                     |          |  |  |
| 5                                | QPSK       | 12      | 7         | 19.76                | 19.96                | 19.96                 |                     |          |  |  |
| 5                                | QPSK       | 12      | 19        | 19.83                | 19.84                | 19.08                 | 19.5                | 0        |  |  |
| 5                                | QPSK       | 12      | 31        | 19.84                | 19.88                | 19.88                 |                     |          |  |  |
| 5                                | 16QAM      | 1       | 0         | 19.93                | 19.96                | 19.13                 |                     |          |  |  |
| 5                                | 16QAM      | 1       | 12        | 19.14                | 19.16                | 19.12                 | 19.5                | 0        |  |  |
| 5                                | 16QAM      | 1       | 24        | 19.86                | 19.84                | 19.09                 |                     |          |  |  |
| 5                                | 16QAM      | 12      | 0         | 19.86                | 19.84                | 19.09                 |                     |          |  |  |
| 5                                | 16QAM      | 12      | 7         | 19.88                | 19.99                | 19.15                 | 19.5                | 0        |  |  |
| 5                                | 16QAM      | 12      | 19        | 19.86                | 19.86                | 19.15                 |                     |          |  |  |
| 5                                | 16QAM      | 20      | 0         | 19.86                | 19.86                | 19.15                 |                     |          |  |  |
| 5                                | 16QAM      | 1       | 0         | 19.83                | 19.83                | 19.86                 |                     |          |  |  |
| 5                                | 16QAM      | 1       | 12        | 19.87                | 19.87                | 19.87                 | 19.5                | 0        |  |  |
| 5                                | 16QAM      | 1       | 24        | 19.99                | 19.99                | 19.15                 |                     |          |  |  |
| 5                                | 16QAM      | 1       | 24        | 19.99                | 19.13                | 19.16                 |                     |          |  |  |
| 5                                | 16QAM      | 12      | 0         | 19.85                | 19.83                | 19.86                 |                     |          |  |  |
| 5                                | 16QAM      | 12      | 7         | 19.81                | 19.81                | 19.81                 | 19.5                | 0        |  |  |
| 5                                | 16QAM      | 12      | 19        | 19.82                | 19.81                | 19.04                 |                     |          |  |  |
| 5                                | 16QAM      | 20      | 0         | 19.80                | 19.87                | 19.80                 |                     |          |  |  |
| 5                                | 16QAM      | 20      | 7         | 19.84                | 19.81                | 19.81                 | 19.5                | 0        |  |  |
| 5                                | 256QAM     | 1       | 0         | 19.86                | 19.71                | 19.78                 |                     |          |  |  |
| 5                                | 256QAM     | 1       | 12        | 19.86                | 19.71                | 19.78                 |                     |          |  |  |
| 5                                | 256QAM     | 1       | 24        | 19.87                | 19.82                | 19.85                 |                     |          |  |  |
| 5                                | 256QAM     | 1       | 12        | 19.79                | 19.79                | 19.79                 | 19.5                | 0        |  |  |
| 5                                | 256QAM     | 12      | 7         | 19.72                | 19.82                | 19.82                 |                     |          |  |  |
| 5                                | 256QAM     | 12      | 19        | 19.79                | 19.83                | 19.88                 |                     |          |  |  |
| 5                                | 256QAM     | 12      | 31        | 19.71                | 19.78                | 19.78                 | 19.5                | 0        |  |  |

| Ant6 Band 66 Down power / DSI 1/5 |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
|-----------------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|-------------------|----------|--|--|--|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch / Freq. 180872 | Power Middle Ch / Freq. 193332 | Power High Ch / Freq. 193372 | Tune-up Int. (dB) | MPR (dB) |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 20                                | QPSK       | 1       | 0         | 20.40                       | 20.44                          | 20.40                        | 21                | 0        |  |  |  |  |
| 20                                | QPSK       | 1       | 49        | 20.35                       | 20.38                          | 20.38                        |                   |          |  |  |  |  |
| 20                                | QPSK       | 1       | 99        | 20.23                       | 20.30                          | 20.27                        |                   |          |  |  |  |  |
| 20                                | QPSK       | 50      | 0         | 19.99                       | 20.05                          | 19.78                        |                   |          |  |  |  |  |
| 20                                | QPSK       | 50      | 24        | 20.01                       | 19.82                          | 19.87                        | 21                | 0        |  |  |  |  |
| 20                                | QPSK       | 50      | 50        | 19.96                       | 19.85                          | 19.84                        |                   |          |  |  |  |  |
| 20                                | QPSK       | 100     | 0         | 20.19                       | 20.15                          | 19.84                        |                   |          |  |  |  |  |
| 20                                | 16QAM      | 100     | 0         | 20.00                       | 20.01                          | 20.32                        |                   |          |  |  |  |  |
| 20                                | 16QAM      | 1       | 49        | 20.12                       | 20.10                          | 20.03                        | 21                | 0        |  |  |  |  |
| 20                                | 16QAM      | 1       | 99        | 20.03                       | 19.87                          | 19.99                        |                   |          |  |  |  |  |
| 20                                | 16QAM      | 50      | 0         | 20.24                       | 20.10                          | 19.78                        |                   |          |  |  |  |  |
| 20                                | 16QAM      | 50      | 24        | 19.88                       | 19.15                          | 19.91                        |                   |          |  |  |  |  |
| 20                                | 16QAM      | 50      | 50        | 20.17                       | 20.05                          | 19.75                        | 21                | 0        |  |  |  |  |
| 20                                | 16QAM      | 100     | 0         | 19.95                       | 19.82                          | 19.75                        |                   |          |  |  |  |  |
| 20                                | 64QAM      | 1       | 0         | 20.00                       | 19.80                          | 19.75                        |                   |          |  |  |  |  |
| 20                                | 64QAM      | 1       | 49        | 20.09                       | 19.87                          | 19.78                        |                   |          |  |  |  |  |
| 20                                | 64QAM      | 1       | 99        | 20.10                       | 19.81                          | 19.88                        | 21                | 0        |  |  |  |  |
| 20                                | 64QAM      | 50      | 0         | 20.19                       | 19.87                          | 19.85                        |                   |          |  |  |  |  |
| 20                                | 64QAM      | 50      | 24        | 20.11                       | 20.00                          | 19.90                        |                   |          |  |  |  |  |
| 20                                | 64QAM      | 50      | 50        | 20.01                       | 19.85                          | 20.00                        |                   |          |  |  |  |  |
| 20                                | 256QAM     | 1       | 0         | 19.86                       | 19.15                          | 19.88                        | 20                | 1        |  |  |  |  |
| 20                                | 256QAM     | 1       | 49        | 19.12                       | 19.79                          | 19.76                        |                   |          |  |  |  |  |
| 20                                | 256QAM     | 1       | 99        | 19.72                       | 19.88                          | 19.78                        |                   |          |  |  |  |  |
| 20                                | 256QAM     | 50      | 0         | 19.31                       | 19.37                          | 19.88                        |                   |          |  |  |  |  |
| 20                                | 256QAM     | 50      | 24        | 19.15                       | 19.09                          | 19.83                        |                   |          |  |  |  |  |
| 20                                | 256QAM     | 50      | 50        | 19.02                       | 19.82                          | 19.86                        |                   |          |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 15                                | QPSK       | 1       | 0         | 20.40                       | 20.36                          | 20.22                        | 21                | 0        |  |  |  |  |
| 15                                | QPSK       | 1       | 37        | 20.35                       | 20.33                          | 20.09                        |                   |          |  |  |  |  |
| 15                                | QPSK       | 1       | 74        | 20.27                       | 20.31                          | 20.23                        |                   |          |  |  |  |  |
| 15                                | QPSK       | 36      | 0         | 20.10                       | 19.96                          | 20.01                        |                   |          |  |  |  |  |
| 15                                | QPSK       | 36      | 36        | 20.10                       | 19.96                          | 19.74                        | 21                | 0        |  |  |  |  |
| 15                                | QPSK       | 36      | 72        | 20.08                       | 19.84                          | 19.98                        |                   |          |  |  |  |  |
| 15                                | QPSK       | 75      | 0         | 20.08                       | 19.92                          | 19.88                        |                   |          |  |  |  |  |
| 15                                | 16QAM      | 1       | 0         | 19.93                       | 20.24                          | 20.01                        |                   |          |  |  |  |  |
| 15                                | 16QAM      | 1       | 37        | 20.40                       | 20.24                          | 20.01                        | 21                | 0        |  |  |  |  |
| 15                                | 16QAM      | 1       | 74        | 20.22                       | 20.26                          | 20.01                        |                   |          |  |  |  |  |
| 15                                | 16QAM      | 36      | 0         | 20.20                       | 20.19                          | 19.94                        |                   |          |  |  |  |  |
| 15                                | 16QAM      | 36      | 36        | 20.21                       | 19.78                          | 19.78                        |                   |          |  |  |  |  |
| 15                                | 16QAM      | 75      | 0         | 20.06                       | 19.86                          | 19.88                        | 21                | 0        |  |  |  |  |
| 15                                | 64QAM      | 1       | 0         | 19.88                       | 19.89                          | 19.85                        |                   |          |  |  |  |  |
| 15                                | 64QAM      | 1       | 37        | 19.86                       | 19.86                          | 19.72                        |                   |          |  |  |  |  |
| 15                                | 64QAM      | 1       | 74        | 19.99                       | 19.75                          | 19.81                        |                   |          |  |  |  |  |
| 15                                | 64QAM      | 36      | 0         | 20.16                       | 19.82                          | 19.85                        | 21                | 0        |  |  |  |  |
| 15                                | 64QAM      | 36      | 36        | 20.36                       | 19.80                          | 19.87                        |                   |          |  |  |  |  |
| 15                                | 64QAM      | 36      | 72        | 20.32                       | 19.92                          | 19.89                        |                   |          |  |  |  |  |
| 15                                | 64QAM      | 75      | 0         | 20.03                       | 19.87                          | 19.86                        |                   |          |  |  |  |  |
| 15                                | 256QAM     | 1       | 0         | 19.20                       | 19.86                          | 19.86                        | 20                | 1        |  |  |  |  |
| 15                                | 256QAM     | 1       | 37        | 19.22                       | 19.80                          | 19.89                        |                   |          |  |  |  |  |
| 15                                | 256QAM     | 1       | 74        | 19.07                       | 19.81                          | 19.81                        |                   |          |  |  |  |  |
| 15                                | 256QAM     | 36      | 0         | 19.36                       | 19.15                          | 19.87                        |                   |          |  |  |  |  |
| 15                                | 256QAM     | 36      | 36        | 19.33                       | 19.10                          | 19.87                        |                   |          |  |  |  |  |
| 15                                | 256QAM     | 36      | 72        | 19.19                       | 19.11                          | 19.82                        |                   |          |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 10                                | QPSK       | 1       | 0         | 20.32                       | 20.28                          | 20.14                        | 21                | 0        |  |  |  |  |
| 10                                | QPSK       | 1       | 25        | 20.37                       | 20.29                          | 20.17                        |                   |          |  |  |  |  |
| 10                                | QPSK       | 1       | 49        | 20.32                       | 20.29                          | 20.12                        |                   |          |  |  |  |  |
| 10                                | QPSK       | 25      | 0         | 20.09                       | 20.12                          | 20.13                        |                   |          |  |  |  |  |
| 10                                | QPSK       | 25      | 12        | 20.01                       | 19.98                          | 19.82                        | 21                | 0        |  |  |  |  |
| 10                                | QPSK       | 25      | 25        | 20.01                       | 19.81                          | 19.89                        |                   |          |  |  |  |  |
| 10                                | QPSK       | 50      | 0         | 20.00                       | 20.02                          | 19.78                        |                   |          |  |  |  |  |
| 10                                | 16QAM      | 1       | 0         | 19.93                       | 20.24                          | 20.17                        |                   |          |  |  |  |  |
| 10                                | 16QAM      | 1       | 25        | 20.03                       | 20.04                          | 19.94                        | 21                | 0        |  |  |  |  |
| 10                                | 16QAM      | 1       | 49        | 20.11                       | 19.96                          | 19.84                        |                   |          |  |  |  |  |
| 10                                | 16QAM      | 25      | 0         | 19.99                       | 20.07                          | 19.88                        |                   |          |  |  |  |  |
| 10                                | 16QAM      | 25      | 12        | 20.04                       | 20.07                          | 19.83                        |                   |          |  |  |  |  |
| 10                                | 16QAM      | 50      | 0         | 19.94                       | 19.87                          | 19.87                        | 21                | 0        |  |  |  |  |
| 10                                | 16QAM      | 50      | 0         | 20.08                       | 19.81                          | 19.77                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 1       | 0         | 19.88                       | 20.22                          | 19.96                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 1       | 25        | 20.27                       | 20.00                          | 19.85                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 1       | 49        | 20.05                       | 20.03                          | 19.95                        | 21                | 0        |  |  |  |  |
| 10                                | 64QAM      | 25      | 0         | 20.11                       | 19.89                          | 19.95                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 25      | 12        | 20.15                       | 19.86                          | 20.03                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 25      | 25        | 20.13                       | 20.11                          | 19.85                        |                   |          |  |  |  |  |
| 10                                | 64QAM      | 50      | 0         | 20.03                       | 19.80                          | 19.72                        | 20                | 1        |  |  |  |  |
| 10                                | 256QAM     | 1       | 0         | 19.85                       | 19.80                          | 19.87                        |                   |          |  |  |  |  |
| 10                                | 256QAM     | 1       | 25        | 19.10                       | 19.80                          | 19.86                        |                   |          |  |  |  |  |
| 10                                | 256QAM     | 1       | 49        | 19.87                       | 19.80                          | 19.83                        |                   |          |  |  |  |  |
| 10                                | 256QAM     | 25      | 0         | 19.20                       | 19.83                          | 19.13                        | 20                | 1        |  |  |  |  |
| 10                                | 256QAM     | 25      | 12        | 19.10                       | 19.15                          | 19.83                        |                   |          |  |  |  |  |
| 10                                | 256QAM     | 25      | 25        | 19.09                       | 19.80                          | 19.85                        |                   |          |  |  |  |  |
| 10                                | 256QAM     | 50      | 0         | 19.05                       | 19.12                          | 19.87                        |                   |          |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 5                                 | QPSK       | 1       | 0         | 20.42                       | 20.32                          | 20.17                        | 21                | 0        |  |  |  |  |
| 5                                 | QPSK       | 1       | 12        | 20.35                       | 20.34                          | 20.24                        |                   |          |  |  |  |  |
| 5                                 | QPSK       | 1       | 24        | 20.30                       | 20.38                          | 20.27                        |                   |          |  |  |  |  |
| 5                                 | QPSK       | 12      | 0         | 19.12                       | 20.04                          | 19.81                        |                   |          |  |  |  |  |
| 5                                 | QPSK       | 12      | 7         | 20.11                       | 20.00                          | 20.03                        | 21                | 0        |  |  |  |  |
| 5                                 | QPSK       | 12      | 13        | 20.02                       | 19.85                          | 20.08                        |                   |          |  |  |  |  |
| 5                                 | QPSK       | 25      | 0         | 19.93                       | 19.86                          | 19.84                        |                   |          |  |  |  |  |
| 5                                 | 16QAM      | 1       | 0         | 19.94                       | 20.33                          | 20.14                        |                   |          |  |  |  |  |
| 5                                 | 16QAM      | 1       | 12        | 20.28                       | 20.24                          | 19.95                        | 21                | 0        |  |  |  |  |
| 5                                 | 16QAM      | 1       | 24        | 20.21                       | 20.01                          | 20.08                        |                   |          |  |  |  |  |
| 5                                 | 16QAM      | 12      | 0         | 20.07                       | 19.88                          | 19.83                        |                   |          |  |  |  |  |
| 5                                 | 16QAM      | 12      | 7         | 20.08                       | 19.89                          | 19.84                        |                   |          |  |  |  |  |
| 5                                 | 16QAM      | 12      | 13        | 20.02                       | 19.86                          | 19.83                        | 21                | 0        |  |  |  |  |
| 5                                 | 16QAM      | 25      | 0         | 20.21                       | 19.91                          | 19.73                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 1       | 0         | 19.81                       | 19.82                          | 19.83                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 1       | 12        | 20.31                       | 19.83                          | 19.86                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 1       | 24        | 20.23                       | 19.89                          | 19.83                        | 21                | 0        |  |  |  |  |
| 5                                 | 64QAM      | 12      | 0         | 20.03                       | 19.86                          | 19.75                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 12      | 7         | 19.93                       | 19.88                          | 19.68                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 12      | 13        | 19.83                       | 20.07                          | 19.81                        |                   |          |  |  |  |  |
| 5                                 | 64QAM      | 25      | 0         | 20.14                       | 20.22                          | 19.97                        | 20                | 1        |  |  |  |  |
| 5                                 | 256QAM     | 1       | 0         | 19.02                       | 19.16                          | 19.86                        |                   |          |  |  |  |  |
| 5                                 | 256QAM     | 1       | 12        | 19.15                       | 19.86                          | 19.83                        |                   |          |  |  |  |  |
| 5                                 | 256QAM     | 1       | 24        | 19.00                       | 19.83                          | 19.83                        |                   |          |  |  |  |  |
| 5                                 | 256QAM     | 12      | 0         | 19.29                       | 19.10                          | 19.87                        | 20                | 1        |  |  |  |  |
| 5                                 | 256QAM     | 12      | 7         | 19.35                       | 19.10                          | 19.82                        |                   |          |  |  |  |  |
| 5                                 | 256QAM     | 12      | 13        | 19.24                       | 19.80                          | 19.87                        |                   |          |  |  |  |  |
| 5                                 | 256QAM     | 25      | 0         | 19.17                       | 19.80                          | 19.86                        |                   |          |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 3                                 | QPSK       | 1       | 0         | 20.18                       | 20.18                          | 20.41                        | 21                | 0        |  |  |  |  |
| 3                                 | QPSK       | 1       | 8         | 20.28                       | 20.09                          | 20.85                        |                   |          |  |  |  |  |
| 3                                 | QPSK       | 1       | 14        | 20.03                       | 20.26                          | 20.13                        |                   |          |  |  |  |  |
| 3                                 | QPSK       | 3       | 0         | 19.25                       | 19.81                          | 19.80                        |                   |          |  |  |  |  |
| 3                                 | QPSK       | 3       | 4         | 19.95                       | 19.83                          | 19.89                        | 21                | 0        |  |  |  |  |
| 3                                 | QPSK       | 3       | 7         | 20.06                       | 19.83                          | 20.00                        |                   |          |  |  |  |  |
| 3                                 | QPSK       | 15      | 0         | 20.16                       | 19.86                          | 19.91                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 1       | 0         | 20.05                       | 20.39                          | 20.12                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 1       | 8         | 20.02                       | 20.15                          | 20.16                        | 21                | 0        |  |  |  |  |
| 3                                 | 16QAM      | 1       | 14        | 19.99                       | 20.15                          | 20.15                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 3       | 0         | 19.95                       | 19.96                          | 19.77                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 3       | 4         | 19.98                       | 19.84                          | 19.85                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 3       | 7         | 20.02                       | 19.85                          | 19.88                        | 21                | 0        |  |  |  |  |
| 3                                 | 16QAM      | 15      | 0         | 19.75                       | 19.75                          | 19.87                        |                   |          |  |  |  |  |
| 3                                 | 16QAM      | 3       | 7         | 20.01                       | 20.11                          | 19.97                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 1       | 8         | 19.85                       | 19.80                          | 19.71                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 3       | 4         | 19.89                       | 19.68                          | 19.71                        | 21                | 0        |  |  |  |  |
| 3                                 | 64QAM      | 3       | 7         | 20.05                       | 19.84                          | 19.73                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 8       | 0         | 20.05                       | 19.84                          | 19.73                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 8       | 4         | 20.06                       | 19.65                          | 19.68                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 15      | 0         | 20.38                       | 20.11                          | 20.00                        | 21                | 0        |  |  |  |  |
| 3                                 | 64QAM      | 15      | 0         | 19.96                       | 19.93                          | 19.82                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 15      | 4         | 19.86                       | 19.81                          | 19.81                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 15      | 14        | 19.74                       | 19.81                          | 19.67                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 3       | 0         | 19.32                       | 19.97                          | 19.86                        | 20                | 1        |  |  |  |  |
| 3                                 | 64QAM      | 3       | 4         | 19.36                       | 19.90                          | 19.87                        |                   |          |  |  |  |  |
| 3                                 | 64QAM      | 3       | 7         | 19.81                       | 19.98                          | 19.85                        |                   |          |  |  |  |  |
| 3                                 | 256QAM     | 15      | 0         | 19.26                       | 19.11                          | 19.84                        |                   |          |  |  |  |  |
| Channel                           |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| Frequency (MHz)                   |            |         |           |                             |                                |                              |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 1       | 0         | 20.17                       | 20.17                          | 20.72                        | 21                | 0        |  |  |  |  |
| 1.4                               | QPSK       | 1       | 8         | 20.29                       | 20.09                          | 20.41                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 1       | 14        | 20.03                       | 20.26                          | 20.13                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 0         | 19.25                       | 19.81                          | 19.80                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 4         | 19.95                       | 19.83                          | 19.89                        | 21                | 0        |  |  |  |  |
| 1.4                               | QPSK       | 3       | 7         | 20.06                       | 19.83                          | 20.00                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 15      | 0         | 20.16                       | 19.86                          | 19.91                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 3         | 19.54                       | 19.10                          | 19.12                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 5         | 19.54                       | 19.10                          | 19.12                        | 21                | 0        |  |  |  |  |
| 1.4                               | QPSK       | 3       | 9         | 19.54                       | 19.10                          | 19.12                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 0         | 20.11                       | 20.14                          | 20.01                        |                   |          |  |  |  |  |
| 1.4                               | QPSK       | 3       | 1         | 20.07                       | 19.78                          | 19.78                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 0         | 19.86                       | 19.65                          | 19.71                        | 21                | 0        |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 8         | 19.87                       | 19.88                          | 19.78                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 14        | 19.72                       | 19.84                          | 19.63                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 19.71                       | 19.45                          | 19.50                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 3         | 19.88                       | 19.48                          | 19.45                        | 20                | 1        |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 5         | 19.38                       | 19.19                          | 19.38                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 9         | 20.24                       | 20.19                          | 19.94                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 15      | 0         | 20.22                       | 20.07                          | 19.95                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 0         | 20.31                       | 20.07                          | 19.95                        | 21                | 0        |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 8         | 19.71                       | 19.63                          | 19.65                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 1       | 14        | 19.69                       | 19.69                          | 19.57                        |                   |          |  |  |  |  |
| 1.4                               | 16QAM      | 3       | 0         | 19.34                       | 19.30                          | 19.38                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 0         | 19.10                       | 19.25                          | 19.30                        | 21                | 0        |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 8         | 19.54                       | 19.54                          | 19.45                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 1       | 14        | 19.12                       | 19.81                          | 19.80                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 0         | 19.74                       | 19.81                          | 19.68                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 3         | 19.23                       | 19.28                          | 19.28                        | 20                | 1        |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 5         | 19.15                       | 19.03                          | 19.10                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 3       | 9         | 19.21                       | 19.08                          | 19.12                        |                   |          |  |  |  |  |
| 1.4                               | 64QAM      | 15      | 0         | 19.15                       | 19.03                          | 19.10                        |                   |          |  |  |  |  |

### Ant 6 Band 38 Down power DSI 1

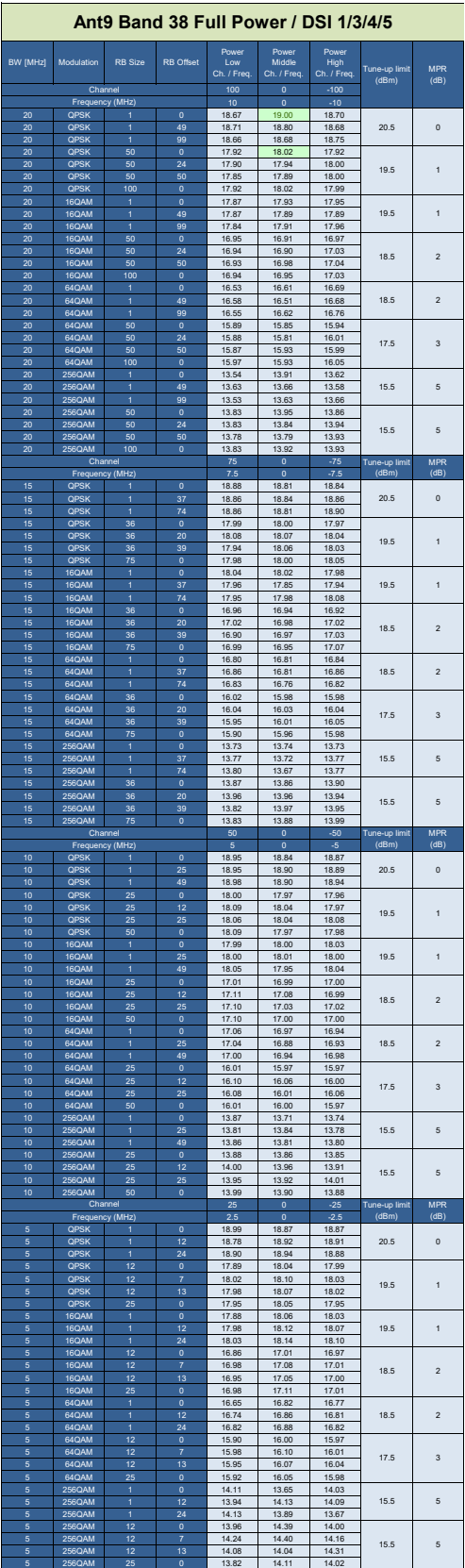
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Co. [Frac] | Power Middle Co. [Frac] | Power High Co. [Frac] | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| Channel         |            |         |           |                      |                         |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |
| 20              | QPSK       | 1       | 0         | 2580                 | 2585                    | 2610                  | 23.5                | 0        |
| 20              | QPSK       | 1       | 49        | 2284                 | 2308                    | 2286                  |                     |          |
| 20              | QPSK       | 1       | 99        | 2258                 | 2303                    | 2290                  |                     |          |
| 20              | QPSK       | 50      | 0         | 2282                 | 2299                    | 2286                  |                     |          |
| 20              | QPSK       | 50      | 24        | 2295                 | 2294                    | 2292                  | 23.5                | 0        |
| 20              | QPSK       | 50      | 50        | 2296                 | 2293                    | 2291                  |                     |          |
| 20              | QPSK       | 100     | 0         | 2290                 | 2295                    | 2286                  |                     |          |
| 20              | 16QAM      | 1       | 0         | 2300                 | 2301                    | 2297                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 2282                 | 2301                    | 2295                  | 23.5                | 0        |
| 20              | 16QAM      | 1       | 99        | 2300                 | 2297                    | 2292                  |                     |          |
| 20              | 16QAM      | 50      | 0         | 2279                 | 2281                    | 2282                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 2286                 | 2295                    | 2292                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 2299                 | 2290                    | 2290                  | 23.5                | 0        |
| 20              | 16QAM      | 100     | 0         | 2302                 | 2292                    | 2289                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 2290                 | 2274                    | 2281                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 2280                 | 2276                    | 2285                  | 23.5                | 0        |
| 20              | 64QAM      | 1       | 99        | 2289                 | 2283                    | 2294                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 2198                 | 2199                    | 2205                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 2213                 | 2214                    | 2203                  |                     |          |
| 20              | 64QAM      | 50      | 50        | 2208                 | 2210                    | 2202                  | 22.5                | 1        |
| 20              | 64QAM      | 100     | 0         | 2225                 | 2220                    | 2216                  |                     |          |
| 20              | 256QAM     | 1       | 0         | 1972                 | 1982                    | 1975                  |                     |          |
| 20              | 256QAM     | 1       | 49        | 1983                 | 1990                    | 1979                  |                     |          |
| 20              | 256QAM     | 1       | 99        | 1982                 | 1984                    | 1985                  | 20.5                | 3        |
| 20              | 256QAM     | 50      | 0         | 1998                 | 2003                    | 1995                  |                     |          |
| 20              | 256QAM     | 50      | 24        | 2006                 | 2007                    | 1998                  |                     |          |
| 20              | 256QAM     | 50      | 50        | 2001                 | 2006                    | 1993                  |                     |          |
| 20              | 256QAM     | 100     | 0         | 2013                 | 2004                    | 1999                  | 20.5                | 3        |
| Channel         |            |         |           |                      |                         |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |
| 15              | QPSK       | 1       | 0         | 2577.5               | 2595                    | 2612.5                | 23.5                | 0        |
| 15              | QPSK       | 1       | 0         | 2289                 | 2286                    | 2282                  |                     |          |
| 15              | QPSK       | 1       | 37        | 2289                 | 2278                    | 2289                  |                     |          |
| 15              | QPSK       | 1       | 74        | 2303                 | 2283                    | 2280                  |                     |          |
| 15              | QPSK       | 36      | 0         | 2284                 | 2290                    | 2286                  | 23.5                | 0        |
| 15              | QPSK       | 36      | 20        | 2281                 | 2293                    | 2281                  |                     |          |
| 15              | QPSK       | 36      | 39        | 2285                 | 2282                    | 2287                  |                     |          |
| 15              | QPSK       | 75      | 0         | 2293                 | 2286                    | 2283                  |                     |          |
| 15              | 16QAM      | 1       | 0         | 2286                 | 2286                    | 2286                  | 23.5                | 0        |
| 15              | 16QAM      | 1       | 37        | 2289                 | 2270                    | 2284                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 2284                 | 2303                    | 2284                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 2277                 | 2285                    | 2277                  |                     |          |
| 15              | 16QAM      | 36      | 0         | 2297                 | 2276                    | 2279                  | 23.5                | 0        |
| 15              | 16QAM      | 36      | 39        | 2275                 | 2284                    | 2278                  |                     |          |
| 15              | 16QAM      | 75      | 0         | 2283                 | 2294                    | 2286                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 2282                 | 2287                    | 2289                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 2282                 | 2287                    | 2289                  | 23.5                | 0        |
| 15              | 64QAM      | 1       | 74        | 2296                 | 2277                    | 2299                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 2286                 | 2199                    | 2289                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 2207                 | 2217                    | 2207                  |                     |          |
| 15              | 64QAM      | 36      | 39        | 2214                 | 2207                    | 2213                  | 22.5                | 1        |
| 15              | 64QAM      | 75      | 0         | 2219                 | 2208                    | 2206                  |                     |          |
| 15              | 256QAM     | 1       | 0         | 1976                 | 1986                    | 1978                  |                     |          |
| 15              | 256QAM     | 1       | 37        | 1982                 | 1989                    | 1979                  |                     |          |
| 15              | 256QAM     | 1       | 74        | 1983                 | 1976                    | 1983                  | 20.5                | 3        |
| 15              | 256QAM     | 36      | 0         | 1998                 | 1998                    | 1998                  |                     |          |
| 15              | 256QAM     | 36      | 20        | 1990                 | 2006                    | 1995                  |                     |          |
| 15              | 256QAM     | 36      | 39        | 2001                 | 1998                    | 1991                  |                     |          |
| 15              | 256QAM     | 75      | 0         | 2013                 | 1999                    | 1992                  | 20.5                | 3        |
| Channel         |            |         |           |                      |                         |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |
| 5               | QPSK       | 1       | 0         | 2575                 | 2595                    | 2615                  | 23.5                | 0        |
| 5               | QPSK       | 1       | 0         | 2278                 | 2277                    | 2269                  |                     |          |
| 5               | QPSK       | 1       | 25        | 2278                 | 2277                    | 2269                  |                     |          |
| 5               | QPSK       | 1       | 49        | 2281                 | 2286                    | 2300                  |                     |          |
| 5               | QPSK       | 25      | 0         | 2273                 | 2275                    | 2270                  | 23.5                | 0        |
| 5               | QPSK       | 25      | 0         | 2286                 | 2283                    | 2283                  |                     |          |
| 5               | QPSK       | 25      | 25        | 2282                 | 2283                    | 2274                  |                     |          |
| 5               | QPSK       | 50      | 0         | 2272                 | 2283                    | 2266                  |                     |          |
| 5               | 16QAM      | 1       | 0         | 2281                 | 2283                    | 2285                  | 23.5                | 0        |
| 5               | 16QAM      | 1       | 25        | 2285                 | 2285                    | 2285                  |                     |          |
| 5               | 16QAM      | 1       | 49        | 2295                 | 2286                    | 2288                  |                     |          |
| 5               | 16QAM      | 25      | 0         | 2260                 | 2276                    | 2273                  |                     |          |
| 5               | 16QAM      | 25      | 12        | 2285                 | 2285                    | 2283                  | 23.5                | 0        |
| 5               | 16QAM      | 25      | 25        | 2285                 | 2282                    | 2272                  |                     |          |
| 5               | 16QAM      | 50      | 0         | 2280                 | 2287                    | 2272                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 2283                 | 2302                    | 2304                  |                     |          |
| 5               | 64QAM      | 1       | 25        | 2277                 | 2301                    | 2272                  | 23.5                | 0        |
| 5               | 64QAM      | 1       | 49        | 2304                 | 2304                    | 2303                  |                     |          |
| 5               | 64QAM      | 25      | 0         | 2281                 | 2186                    | 2191                  |                     |          |
| 5               | 64QAM      | 25      | 12        | 2190                 | 2217                    | 2206                  |                     |          |
| 5               | 64QAM      | 25      | 25        | 2195                 | 2192                    | 2196                  | 22.5                | 1        |
| 5               | 64QAM      | 50      | 0         | 2197                 | 2201                    | 2196                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 1986                 | 1989                    | 1985                  |                     |          |
| 5               | 256QAM     | 1       | 25        | 1984                 | 1988                    | 1989                  |                     |          |
| 5               | 256QAM     | 1       | 49        | 1975                 | 1983                    | 1982                  | 20.5                | 3        |
| 5               | 256QAM     | 25      | 0         | 1988                 | 1977                    | 1982                  |                     |          |
| 5               | 256QAM     | 25      | 12        | 1993                 | 1993                    | 1978                  |                     |          |
| 5               | 256QAM     | 25      | 25        | 1992                 | 1988                    | 1980                  |                     |          |
| 5               | 256QAM     | 50      | 0         | 1978                 | 1989                    | 1982                  | 20.5                | 3        |
| Channel         |            |         |           |                      |                         |                       |                     |          |
| Frequency (MHz) |            |         |           |                      |                         |                       |                     |          |
| 5               | QPSK       | 1       | 0         | 2577.5               | 2595                    | 2617.5                | 23.5                | 0        |
| 5               | QPSK       | 1       | 0         | 2276                 | 2289                    | 2286                  |                     |          |
| 5               | QPSK       | 1       | 12        | 2282                 | 2295                    | 2285                  |                     |          |
| 5               | QPSK       | 1       | 24        | 2286                 | 2288                    | 2286                  |                     |          |
| 5               | QPSK       | 12      | 0         | 2288                 | 2284                    | 2286                  | 23.5                | 0        |
| 5               | QPSK       | 12      | 0         | 2282                 | 2283                    | 2280                  |                     |          |
| 5               | QPSK       | 12      | 13        | 2288                 | 2289                    | 2291                  |                     |          |
| 5               | QPSK       | 25      | 0         | 2287                 | 2282                    | 2284                  |                     |          |
| 5               | 16QAM      | 1       | 0         | 2281                 | 2287                    | 2288                  | 23.5                | 0        |
| 5               | 16QAM      | 1       | 12        | 2280                 | 2289                    | 2294                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 2301                 | 2304                    | 2306                  |                     |          |
| 5               | 16QAM      | 12      | 0         | 2284                 | 2283                    | 2277                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 2278                 | 2288                    | 2279                  | 23.5                | 0        |
| 5               | 16QAM      | 12      | 13        | 2281                 | 2284                    | 2283                  |                     |          |
| 5               | 16QAM      | 25      | 0         | 2288                 | 2288                    | 2284                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 2274                 | 2272                    | 2270                  |                     |          |
| 5               | 64QAM      | 1       | 12        | 2283                 | 2281                    | 2281                  | 23.5                | 0        |
| 5               | 64QAM      | 1       | 24        | 2283                 | 2290                    | 2289                  |                     |          |
| 5               | 64QAM      | 12      | 0         | 2298                 | 2292                    | 2290                  |                     |          |
| 5               | 64QAM      | 12      | 7         | 2292                 | 2296                    | 2195                  |                     |          |
| 5               | 64QAM      | 12      | 13        | 2294                 | 2290                    | 2291                  | 22.5                | 1        |
| 5               | 64QAM      | 25      | 0         | 2296                 | 2199                    | 2195                  |                     |          |
| 5               | 256QAM     | 1       | 0         | 1989                 | 1979                    | 1971                  |                     |          |
| 5               | 256QAM     | 1       | 12        | 1974                 | 1986                    | 1978                  |                     |          |
| 5               | 256QAM     | 1       | 24        | 1983                 | 1977                    | 1977                  | 20.5                | 3        |
| 5               | 256QAM     | 12      | 0         | 1989                 | 2000                    | 1993                  |                     |          |
| 5               | 256QAM     | 12      | 7         | 1994                 | 2003                    | 1993                  |                     |          |
| 5               | 256QAM     | 12      | 13        | 1991                 | 1987                    | 2004                  |                     |          |
| 5               | 256QAM     | 25      | 0         | 1992                 | 2000                    | 1992                  | 20.5                | 3        |

## Ant 6 Band 41 Down power DSI 3/5

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. (Freq) | Power Low Middle Ch. (Freq) | Power Middle Ch. (Freq) | Power High Middle Ch. (Freq) | Power High Ch. (Freq) | Tune-up line (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|----------------------|-----------------------------|-------------------------|------------------------------|-----------------------|--------------------|----------|
| Channel         |            |         |           |                      |                             |                         |                              |                       |                    |          |
| Frequency (MHz) |            |         |           | 20750                | 40185                       | 40620                   | 41055                        | 41490                 |                    |          |
| 20              | QPSK       | 1       | 0         | 20.73                | 20.76                       | 21.13                   | 20.84                        | 20.85                 | 21.5               | 0        |
| 20              | QPSK       | 1       | 49        | 20.77                | 20.70                       | 20.95                   | 20.79                        | 20.70                 |                    |          |
| 20              | QPSK       | 1       | 99        | 20.72                | 20.78                       | 20.92                   | 20.79                        | 20.73                 |                    |          |
| 20              | QPSK       | 50      | 0         | 20.46                | 20.75                       | 20.94                   | 20.72                        | 20.70                 |                    |          |
| 20              | QPSK       | 50      | 24        | 20.86                | 20.72                       | 20.79                   | 20.82                        | 20.87                 | 21.5               | 0        |
| 20              | QPSK       | 50      | 50        | 20.87                | 20.72                       | 20.93                   | 20.84                        | 20.78                 |                    |          |
| 20              | QPSK       | 100     | 0         | 20.64                | 20.77                       | 20.87                   | 20.77                        | 20.65                 |                    |          |
| 20              | 16QAM      | 1       | 0         | 20.62                | 20.83                       | 20.85                   | 20.89                        | 20.97                 |                    |          |
| 20              | 16QAM      | 1       | 49        | 20.65                | 20.80                       | 20.94                   | 20.77                        | 20.70                 | 21.5               | 0        |
| 20              | 16QAM      | 1       | 99        | 20.63                | 20.75                       | 21.05                   | 20.97                        | 20.70                 |                    |          |
| 20              | 16QAM      | 50      | 0         | 20.53                | 20.69                       | 20.78                   | 20.81                        | 20.71                 |                    |          |
| 20              | 16QAM      | 50      | 24        | 20.68                | 20.76                       | 20.87                   | 20.82                        | 20.66                 |                    |          |
| 20              | 16QAM      | 50      | 50        | 20.69                | 20.81                       | 20.91                   | 20.70                        | 20.73                 | 21.5               | 0        |
| 20              | 16QAM      | 100     | 0         | 20.61                | 20.81                       | 20.86                   | 20.84                        | 20.64                 |                    |          |
| 20              | 16QAM      | 1       | 0         | 20.36                | 20.48                       | 20.69                   | 20.48                        | 20.42                 |                    |          |
| 20              | 16QAM      | 1       | 49        | 20.31                | 20.40                       | 20.57                   | 20.54                        | 20.32                 |                    |          |
| 20              | 16QAM      | 1       | 99        | 20.44                | 20.45                       | 20.64                   | 20.69                        | 20.44                 | 21.5               | 0        |
| 20              | 16QAM      | 50      | 0         | 20.73                | 20.70                       | 21.06                   | 20.85                        | 20.87                 |                    |          |
| 20              | 16QAM      | 50      | 24        | 20.84                | 21.01                       | 21.08                   | 20.97                        | 20.79                 |                    |          |
| 20              | 16QAM      | 50      | 50        | 20.78                | 20.97                       | 21.05                   | 20.97                        | 20.77                 |                    |          |
| 20              | 16QAM      | 100     | 0         | 20.88                | 20.93                       | 21.06                   | 21.10                        | 20.92                 | 20.5               | 1        |
| 20              | 256QAM     | 1       | 0         | 19.52                | 19.75                       | 19.96                   | 19.72                        | 19.82                 |                    |          |
| 20              | 256QAM     | 1       | 49        | 19.63                | 19.65                       | 19.88                   | 19.60                        | 19.63                 |                    |          |
| 20              | 256QAM     | 1       | 99        | 19.46                | 19.62                       | 19.86                   | 19.70                        | 19.61                 |                    |          |
| 20              | 256QAM     | 50      | 0         | 19.68                | 19.84                       | 19.98                   | 19.81                        | 19.83                 | 20.5               | 1        |
| 20              | 256QAM     | 50      | 24        | 19.75                | 19.82                       | 19.90                   | 19.99                        | 19.73                 |                    |          |
| 20              | 256QAM     | 50      | 50        | 19.79                | 19.83                       | 19.97                   | 19.97                        | 19.92                 |                    |          |
| 20              | 256QAM     | 100     | 0         | 19.75                | 19.87                       | 19.95                   | 19.96                        | 19.73                 |                    |          |
| Channel         |            |         |           |                      |                             |                         |                              |                       |                    |          |
| Frequency (MHz) |            |         |           | 25025                | 40183                       | 40620                   | 41055                        | 41490                 | Tune-up line (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 0         | 20.58                | 20.76                       | 20.86                   | 20.84                        | 20.71                 | 21.5               | 0        |
| 15              | QPSK       | 1       | 37        | 20.63                | 20.84                       | 20.82                   | 20.77                        | 20.67                 |                    |          |
| 15              | QPSK       | 1       | 74        | 20.63                | 20.88                       | 20.92                   | 20.88                        | 20.76                 |                    |          |
| 15              | QPSK       | 36      | 0         | 20.56                | 20.61                       | 20.69                   | 20.78                        | 20.59                 |                    |          |
| 15              | QPSK       | 36      | 25        | 20.58                | 20.78                       | 20.92                   | 20.65                        | 20.60                 | 21.5               | 0        |
| 15              | QPSK       | 36      | 39        | 20.58                | 20.77                       | 20.91                   | 20.76                        | 20.68                 |                    |          |
| 15              | QPSK       | 75      | 0         | 20.61                | 20.73                       | 20.80                   | 20.75                        | 20.66                 |                    |          |
| 15              | 16QAM      | 1       | 0         | 20.62                | 20.85                       | 20.82                   | 20.83                        | 20.80                 |                    |          |
| 15              | 16QAM      | 1       | 37        | 20.65                | 20.90                       | 20.90                   | 20.64                        | 20.63                 | 21.5               | 0        |
| 15              | 16QAM      | 1       | 74        | 20.71                | 20.80                       | 20.81                   | 20.76                        | 20.76                 |                    |          |
| 15              | 16QAM      | 36      | 0         | 20.40                | 20.66                       | 20.78                   | 20.60                        | 20.52                 |                    |          |
| 15              | 16QAM      | 36      | 20        | 20.43                | 20.66                       | 20.74                   | 20.69                        | 20.61                 |                    |          |
| 15              | 16QAM      | 36      | 39        | 20.65                | 20.63                       | 20.78                   | 20.73                        | 20.62                 | 21.5               | 0        |
| 15              | 16QAM      | 75      | 0         | 20.56                | 20.79                       | 20.72                   | 20.71                        | 20.62                 |                    |          |
| 15              | 16QAM      | 1       | 0         | 20.36                | 20.46                       | 20.67                   | 20.63                        | 20.52                 |                    |          |
| 15              | 16QAM      | 1       | 37        | 20.35                | 20.63                       | 20.59                   | 20.41                        | 20.49                 |                    |          |
| 15              | 16QAM      | 1       | 74        | 20.39                | 20.57                       | 20.67                   | 20.67                        | 20.41                 | 21.5               | 0        |
| 15              | 16QAM      | 36      | 0         | 20.78                | 20.65                       | 20.99                   | 20.94                        | 20.82                 |                    |          |
| 15              | 16QAM      | 36      | 20        | 20.74                | 20.93                       | 21.07                   | 20.91                        | 20.76                 |                    |          |
| 15              | 16QAM      | 36      | 39        | 20.84                | 21.01                       | 21.07                   | 21.05                        | 20.81                 |                    |          |
| 15              | 16QAM      | 75      | 0         | 20.84                | 21.01                       | 20.95                   | 20.95                        | 20.76                 | 20.5               | 1        |
| 15              | 256QAM     | 1       | 0         | 19.47                | 19.56                       | 19.80                   | 19.76                        | 19.64                 |                    |          |
| 15              | 256QAM     | 1       | 37        | 19.52                | 19.70                       | 19.71                   | 19.65                        | 19.60                 |                    |          |
| 15              | 256QAM     | 1       | 74        | 19.47                | 19.76                       | 19.81                   | 19.73                        | 19.64                 |                    |          |
| 15              | 256QAM     | 36      | 0         | 19.70                | 19.69                       | 19.86                   | 19.82                        | 19.73                 | 20.5               | 1        |
| 15              | 256QAM     | 36      | 20        | 19.70                | 19.88                       | 20.03                   | 19.75                        | 19.74                 |                    |          |
| 15              | 256QAM     | 36      | 39        | 19.63                | 19.87                       | 19.97                   | 19.85                        | 19.81                 |                    |          |
| 15              | 256QAM     | 75      | 0         | 19.68                | 19.83                       | 19.88                   | 19.81                        | 19.72                 |                    |          |
| Channel         |            |         |           |                      |                             |                         |                              |                       |                    |          |
| Frequency (MHz) |            |         |           | 30100                | 40169                       | 40620                   | 41055                        | 41490                 | Tune-up line (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 0         | 20.76                | 20.79                       | 21.09                   | 20.79                        | 20.76                 | 21.5               | 0        |
| 10              | QPSK       | 1       | 25        | 20.72                | 20.80                       | 21.10                   | 20.87                        | 20.72                 |                    |          |
| 10              | QPSK       | 1       | 49        | 20.77                | 20.85                       | 21.04                   | 20.80                        | 20.86                 |                    |          |
| 10              | QPSK       | 25      | 0         | 20.65                | 20.75                       | 20.82                   | 20.73                        | 20.69                 |                    |          |
| 10              | QPSK       | 25      | 12        | 20.62                | 20.87                       | 20.91                   | 20.63                        | 20.63                 | 21.5               | 0        |
| 10              | QPSK       | 25      | 25        | 20.65                | 20.74                       | 20.88                   | 20.85                        | 20.70                 |                    |          |
| 10              | QPSK       | 50      | 0         | 20.60                | 20.70                       | 20.87                   | 20.73                        | 20.67                 |                    |          |
| 10              | 16QAM      | 1       | 0         | 20.74                | 20.80                       | 20.99                   | 20.91                        | 20.86                 |                    |          |
| 10              | 16QAM      | 1       | 25        | 20.75                | 20.91                       | 21.02                   | 20.96                        | 20.85                 | 21.5               | 0        |
| 10              | 16QAM      | 1       | 49        | 20.72                | 20.86                       | 21.09                   | 20.99                        | 20.68                 |                    |          |
| 10              | 16QAM      | 25      | 0         | 20.49                | 20.74                       | 20.76                   | 20.62                        | 20.68                 |                    |          |
| 10              | 16QAM      | 25      | 12        | 20.69                | 20.80                       | 20.87                   | 20.81                        | 20.57                 |                    |          |
| 10              | 16QAM      | 25      | 25        | 20.64                | 20.86                       | 20.87                   | 20.95                        | 20.68                 | 21.5               | 0        |
| 10              | 16QAM      | 50      | 0         | 20.65                | 20.82                       | 20.86                   | 20.89                        | 20.65                 |                    |          |
| 10              | 16QAM      | 1       | 0         | 20.61                | 20.61                       | 20.57                   | 20.54                        | 20.60                 |                    |          |
| 10              | 16QAM      | 1       | 25        | 20.61                | 20.87                       | 20.59                   | 20.80                        | 20.60                 |                    |          |
| 10              | 16QAM      | 1       | 49        | 20.52                | 20.77                       | 20.70                   | 20.85                        | 20.48                 | 21.5               | 0        |
| 10              | 16QAM      | 25      | 0         | 20.84                | 20.84                       | 21.09                   | 21.06                        | 20.68                 |                    |          |
| 10              | 16QAM      | 25      | 12        | 20.90                | 20.97                       | 21.01                   | 20.97                        | 20.87                 |                    |          |
| 10              | 16QAM      | 25      | 25        | 20.86                | 21.02                       | 21.05                   | 21.01                        | 20.90                 |                    |          |
| 10              | 16QAM      | 50      | 0         | 20.86                | 20.62                       | 20.97                   | 21.03                        | 20.87                 | 20.5               | 1        |
| 10              | 256QAM     | 1       | 0         | 19.71                | 19.69                       | 19.93                   | 19.77                        | 19.93                 |                    |          |
| 10              | 256QAM     | 1       | 25        | 19.62                | 19.66                       | 20.02                   | 19.81                        | 19.65                 |                    |          |
| 10              | 256QAM     | 1       | 49        | 19.62                | 19.81                       | 19.93                   | 19.60                        | 19.80                 |                    |          |
| 10              | 256QAM     | 25      | 0         | 19.71                | 19.82                       | 19.93                   | 19.82                        | 19.78                 | 20.5               | 1        |
| 10              | 256QAM     | 25      | 12        | 19.76                | 20.01                       | 19.96                   | 19.88                        | 19.70                 |                    |          |
| 10              | 256QAM     | 25      | 25        | 19.75                | 19.88                       | 19.98                   | 19.97                        | 19.85                 |                    |          |
| 10              | 256QAM     | 50      | 0         | 19.81                | 19.86                       | 19.94                   | 19.90                        | 19.79                 |                    |          |
| Channel         |            |         |           |                      |                             |                         |                              |                       |                    |          |
| Frequency (MHz) |            |         |           | 34935                | 40463                       | 40620                   | 41055                        | 41490                 | Tune-up line (dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 0         | 20.62                | 20.77                       | 20.82                   | 20.81                        | 20.83                 | 21.5               | 0        |
| 5               | QPSK       | 1       | 12        | 20.63                | 20.73                       | 20.90                   | 20.85                        | 20.68                 |                    |          |
| 5               | QPSK       | 1       | 24        | 20.65                | 20.79                       | 20.91                   | 20.79                        | 20.66                 |                    |          |
| 5               | QPSK       | 12      | 0         | 20.57                | 20.73                       | 20.82                   | 20.80                        | 20.75                 |                    |          |
| 5               | QPSK       | 12      | 7         | 20.66                | 20.82                       | 20.89                   | 20.80                        | 20.74                 | 21.5               | 0        |
| 5               | QPSK       | 12      | 13        | 20.62                | 20.72                       | 20.83                   | 20.80                        | 20.71                 |                    |          |
| 5               | QPSK       | 25      | 0         | 20.62                | 20.73                       | 20.81                   | 20.85                        | 20.68                 |                    |          |
| 5               | 16QAM      | 1       | 0         | 20.70                | 20.86                       | 20.84                   | 20.88                        | 20.95                 |                    |          |
| 5               | 16QAM      | 1       | 12        | 20.71                | 20.82                       | 20.92                   | 21.05                        | 20.85                 | 21.5               | 0        |
| 5               | 16QAM      | 1       | 24        | 20.74                | 20.91                       | 21.06                   | 20.90                        | 20.76                 |                    |          |
| 5               | 16QAM      | 12      | 0         | 20.65                | 20.74                       | 20.75                   | 20.73                        | 20.75                 |                    |          |
| 5               | 16QAM      | 12      | 7         | 20.63                | 20.79                       | 20.86                   | 20.78                        | 20.63                 |                    |          |
| 5               | 16QAM      | 12      | 13        | 20.60                | 20.76                       | 20.84                   | 20.77                        | 20.63                 | 21.5               | 0        |
| 5               | 16QAM      | 25      | 0         | 20.58                | 20.74                       | 20.90                   | 20.84                        | 20.76                 |                    |          |
| 5               | 16QAM      | 1       | 0         | 20.32                | 20.53                       | 20.58                   | 20.58                        | 20.56                 |                    |          |
| 5               | 16QAM      | 1       | 12        | 20.46                | 20.42                       | 20.63                   | 20.65                        | 20.49                 |                    |          |
| 5               | 16QAM      | 1       | 24        | 20.44                | 20.57                       | 20.67                   | 20.62                        | 20.47                 | 21.5               | 0        |
| 5               | 16QAM      | 12      | 0         | 20.71                | 20.95                       | 21.06                   | 20.95                        | 20.84                 |                    |          |
| 5               | 16QAM      | 12      | 7         | 20.77                | 20.99                       | 20.95                   | 21.04                        | 20.86                 |                    |          |
| 5               | 16QAM      | 12      | 13        | 20.79                | 20.96                       | 21.07                   | 21.01                        | 20.83                 |                    |          |
| 5               | 16QAM      | 25      | 0         | 20.73                | 20.94                       | 21.02                   | 20.96                        | 20.86                 | 20.5               | 1        |
| 5               | 256QAM     | 1       | 0         | 19.53                | 19.81                       | 19.72                   | 19.74                        | 19.73                 |                    |          |
| 5               | 256QAM     | 1       | 12        | 19.46                | 19.66                       | 19.77                   | 19.71                        | 19.61                 |                    |          |
| 5               | 256QAM     | 1       | 24        | 19.54                | 19.73                       | 19.73                   | 19.65                        | 19.54                 | 20.5               | 1        |
| 5               | 256QAM     | 1       | 37        | 19.66                | 19.68                       | 19.92                   | 19.69                        | 19.88                 |                    |          |
| 5               | 256QAM     | 12      | 7         | 19.74                | 19.90                       | 19.97                   | 19.97                        | 19.90                 |                    |          |
| 5               | 256QAM     | 12      | 13        | 19.72                | 19.88                       | 19.99                   | 19.94                        | 19.86                 | 20.5               | 1        |
| 5               | 256QAM     | 25      | 0         | 19.69                | 19.84                       | 19.94                   | 19.94                        | 19.85                 |                    |          |
| 5               | 256QAM     | 25      | 12        | 19.70                | 19.86                       | 19.96                   | 19.96                        | 19.88                 |                    |          |

| Ant 7 Band 4 Full Power / DSI 1/3/4/5 |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
|---------------------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|--------------------|----------|--|--|--|--|--|--|
| BW (MHz)                              | Modulation | RB Size | RB Offset | Power Low Ch / Freq. 20050 | Power Middle Ch / Freq. 20175 | Power High Ch / Freq. 20500 | Turn-up time (sec) | MPE (dB) |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 20                                    | QPSK       | 1       | 0         | 20.59                      | 20.79                         | 20.58                       | 21.3               | 0        |  |  |  |  |  |  |
| 20                                    | QPSK       | 1       | 49        | 20.78                      | 20.53                         | 20.52                       |                    |          |  |  |  |  |  |  |
| 20                                    | QPSK       | 1       | 99        | 20.32                      | 20.39                         | 20.33                       |                    |          |  |  |  |  |  |  |
| 20                                    | QPSK       | 50      | 0         | 19.89                      | 19.90                         | 19.86                       | 20.3               | 1        |  |  |  |  |  |  |
| 20                                    | QPSK       | 50      | 24        | 19.68                      | 19.63                         | 19.65                       |                    |          |  |  |  |  |  |  |
| 20                                    | QPSK       | 50      | 50        | 19.55                      | 19.57                         | 19.41                       |                    |          |  |  |  |  |  |  |
| 20                                    | QPSK       | 100     | 0         | 19.81                      | 19.82                         | 19.84                       | 20.3               | 1        |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 0         | 20.11                      | 19.78                         | 19.74                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 49        | 20.12                      | 19.71                         | 19.66                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 99        | 20.00                      | 20.04                         | 19.71                       | 19.3               | 2        |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 0         | 19.68                      | 19.70                         | 19.64                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 24        | 18.89                      | 18.69                         | 18.59                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 50        | 19.46                      | 19.62                         | 18.92                       | 18.3               | 3        |  |  |  |  |  |  |
| 20                                    | 16QAM      | 100     | 0         | 18.70                      | 18.82                         | 18.87                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 0         | 19.20                      | 18.80                         | 18.20                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 49        | 19.03                      | 19.18                         | 18.86                       | 19.3               | 2        |  |  |  |  |  |  |
| 20                                    | 16QAM      | 1       | 99        | 18.80                      | 19.20                         | 18.72                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 0         | 18.00                      | 17.95                         | 17.84                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 24        | 17.88                      | 17.83                         | 17.73                       | 18.3               | 3        |  |  |  |  |  |  |
| 20                                    | 16QAM      | 50      | 50        | 17.74                      | 17.70                         | 17.62                       |                    |          |  |  |  |  |  |  |
| 20                                    | 16QAM      | 100     | 0         | 17.94                      | 17.83                         | 17.82                       |                    |          |  |  |  |  |  |  |
| 20                                    | 256QAM     | 1       | 0         | 15.45                      | 15.66                         | 15.53                       | 16.3               | 5        |  |  |  |  |  |  |
| 20                                    | 256QAM     | 1       | 49        | 15.58                      | 15.41                         | 15.21                       |                    |          |  |  |  |  |  |  |
| 20                                    | 256QAM     | 1       | 99        | 15.26                      | 15.32                         | 15.26                       |                    |          |  |  |  |  |  |  |
| 20                                    | 256QAM     | 50      | 0         | 15.75                      | 15.76                         | 15.52                       | 16.3               | 5        |  |  |  |  |  |  |
| 20                                    | 256QAM     | 50      | 24        | 15.54                      | 15.52                         | 15.50                       |                    |          |  |  |  |  |  |  |
| 20                                    | 256QAM     | 50      | 50        | 15.47                      | 15.52                         | 15.34                       |                    |          |  |  |  |  |  |  |
| 20                                    | 256QAM     | 100     | 0         | 15.72                      | 15.72                         | 15.42                       | 20.6               | 0        |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 15                                    | QPSK       | 1       | 0         | 20.69                      | 20.73                         | 20.43                       | 21.3               | 0        |  |  |  |  |  |  |
| 15                                    | QPSK       | 1       | 37        | 20.45                      | 20.48                         | 20.33                       |                    |          |  |  |  |  |  |  |
| 15                                    | QPSK       | 1       | 74        | 20.42                      | 20.45                         | 20.24                       |                    |          |  |  |  |  |  |  |
| 15                                    | QPSK       | 36      | 0         | 19.72                      | 19.75                         | 19.63                       | 20.3               | 1        |  |  |  |  |  |  |
| 15                                    | QPSK       | 36      | 25        | 19.70                      | 19.68                         | 19.49                       |                    |          |  |  |  |  |  |  |
| 15                                    | QPSK       | 36      | 36        | 19.64                      | 19.60                         | 19.43                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 75      | 0         | 19.64                      | 19.70                         | 19.45                       | 20.3               | 1        |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 0         | 20.01                      | 19.90                         | 19.73                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 37        | 19.64                      | 19.89                         | 19.73                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 74        | 19.45                      | 19.58                         | 19.37                       | 19.3               | 2        |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 0         | 18.83                      | 18.73                         | 18.66                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 20        | 18.72                      | 18.80                         | 18.54                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 25        | 18.86                      | 18.59                         | 18.59                       | 18.3               | 3        |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 36        | 18.75                      | 18.75                         | 18.55                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 75      | 0         | 19.02                      | 19.02                         | 18.51                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 0         | 19.06                      | 18.68                         | 18.59                       | 16.3               | 5        |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 49        | 18.67                      | 18.67                         | 18.55                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 1       | 74        | 18.57                      | 18.01                         | 18.05                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 0         | 17.87                      | 17.89                         | 17.82                       | 17.6               | 3        |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 25        | 17.86                      | 17.86                         | 17.84                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 36      | 36        | 17.81                      | 17.83                         | 17.55                       |                    |          |  |  |  |  |  |  |
| 15                                    | 16QAM      | 75      | 0         | 17.87                      | 17.82                         | 17.72                       | 16.3               | 5        |  |  |  |  |  |  |
| 15                                    | 256QAM     | 1       | 0         | 15.86                      | 15.84                         | 15.52                       |                    |          |  |  |  |  |  |  |
| 15                                    | 256QAM     | 1       | 37        | 15.38                      | 15.31                         | 15.21                       |                    |          |  |  |  |  |  |  |
| 15                                    | 256QAM     | 1       | 74        | 15.41                      | 15.40                         | 15.09                       | 15.6               | 5        |  |  |  |  |  |  |
| 15                                    | 256QAM     | 50      | 0         | 15.59                      | 15.60                         | 15.29                       |                    |          |  |  |  |  |  |  |
| 15                                    | 256QAM     | 50      | 24        | 15.59                      | 15.52                         | 15.28                       |                    |          |  |  |  |  |  |  |
| 15                                    | 256QAM     | 50      | 36        | 15.55                      | 15.48                         | 15.35                       | 15.6               | 5        |  |  |  |  |  |  |
| 15                                    | 256QAM     | 100     | 0         | 15.48                      | 15.63                         | 15.37                       |                    |          |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 10                                    | QPSK       | 1       | 0         | 20.54                      | 20.43                         | 20.43                       | 21.3               | 0        |  |  |  |  |  |  |
| 10                                    | QPSK       | 1       | 25        | 20.44                      | 20.38                         | 20.20                       |                    |          |  |  |  |  |  |  |
| 10                                    | QPSK       | 1       | 49        | 20.43                      | 20.35                         | 20.27                       |                    |          |  |  |  |  |  |  |
| 10                                    | QPSK       | 25      | 0         | 19.41                      | 19.61                         | 19.38                       | 20.3               | 1        |  |  |  |  |  |  |
| 10                                    | QPSK       | 25      | 12        | 19.60                      | 19.67                         | 19.49                       |                    |          |  |  |  |  |  |  |
| 10                                    | QPSK       | 25      | 25        | 19.74                      | 19.63                         | 19.41                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 80      | 0         | 19.70                      | 19.70                         | 19.45                       | 20.3               | 1        |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 0         | 20.01                      | 19.90                         | 19.58                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 25        | 20.00                      | 19.73                         | 19.59                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 49        | 19.86                      | 19.68                         | 19.53                       | 19.3               | 2        |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 0         | 18.48                      | 18.68                         | 18.33                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 12        | 18.72                      | 18.68                         | 18.55                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 24        | 18.77                      | 18.70                         | 18.44                       | 18.3               | 3        |  |  |  |  |  |  |
| 10                                    | 16QAM      | 50      | 0         | 18.70                      | 18.67                         | 18.57                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 0         | 19.29                      | 18.97                         | 19.17                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 24        | 18.81                      | 18.22                         | 18.27                       | 16.3               | 5        |  |  |  |  |  |  |
| 10                                    | 16QAM      | 1       | 49        | 19.29                      | 18.08                         | 18.83                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 0         | 17.81                      | 17.82                         | 17.66                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 12        | 17.85                      | 17.78                         | 17.77                       | 17.6               | 3        |  |  |  |  |  |  |
| 10                                    | 16QAM      | 25      | 25        | 17.88                      | 17.86                         | 17.70                       |                    |          |  |  |  |  |  |  |
| 10                                    | 16QAM      | 50      | 0         | 17.75                      | 17.86                         | 17.64                       |                    |          |  |  |  |  |  |  |
| 10                                    | 256QAM     | 1       | 0         | 15.42                      | 15.31                         | 15.25                       | 16.3               | 5        |  |  |  |  |  |  |
| 10                                    | 256QAM     | 1       | 25        | 15.32                      | 15.31                         | 15.06                       |                    |          |  |  |  |  |  |  |
| 10                                    | 256QAM     | 1       | 49        | 15.33                      | 15.45                         | 15.17                       |                    |          |  |  |  |  |  |  |
| 10                                    | 256QAM     | 25      | 0         | 15.53                      | 15.50                         | 15.25                       | 16.3               | 5        |  |  |  |  |  |  |
| 10                                    | 256QAM     | 25      | 12        | 15.47                      | 15.61                         | 15.34                       |                    |          |  |  |  |  |  |  |
| 10                                    | 256QAM     | 25      | 25        | 15.56                      | 15.50                         | 15.30                       |                    |          |  |  |  |  |  |  |
| 10                                    | 256QAM     | 50      | 0         | 15.52                      | 15.52                         | 15.28                       | 20.6               | 0        |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 5                                     | QPSK       | 1       | 0         | 20.43                      | 20.38                         | 20.43                       | 21.3               | 0        |  |  |  |  |  |  |
| 5                                     | QPSK       | 1       | 12        | 20.58                      | 20.55                         | 20.40                       |                    |          |  |  |  |  |  |  |
| 5                                     | QPSK       | 1       | 24        | 20.61                      | 20.67                         | 20.40                       |                    |          |  |  |  |  |  |  |
| 5                                     | QPSK       | 12      | 0         | 19.44                      | 19.66                         | 19.35                       | 20.3               | 1        |  |  |  |  |  |  |
| 5                                     | QPSK       | 12      | 7         | 19.77                      | 19.61                         | 19.44                       |                    |          |  |  |  |  |  |  |
| 5                                     | QPSK       | 12      | 13        | 19.69                      | 19.63                         | 19.43                       |                    |          |  |  |  |  |  |  |
| 5                                     | QPSK       | 25      | 0         | 19.71                      | 19.63                         | 19.45                       | 20.3               | 1        |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 0         | 19.30                      | 20.00                         | 19.74                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 12        | 19.78                      | 20.03                         | 19.68                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 24        | 20.04                      | 20.11                         | 19.82                       | 19.3               | 2        |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 0         | 18.82                      | 18.98                         | 18.48                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 7         | 18.69                      | 18.54                         | 18.45                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 13        | 18.78                      | 18.68                         | 18.42                       | 18.3               | 3        |  |  |  |  |  |  |
| 5                                     | 16QAM      | 25      | 0         | 18.67                      | 18.65                         | 18.39                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 0         | 18.72                      | 18.00                         | 18.65                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 12        | 19.08                      | 18.80                         | 18.60                       | 19.3               | 2        |  |  |  |  |  |  |
| 5                                     | 16QAM      | 1       | 24        | 19.07                      | 18.90                         | 19.01                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 0         | 17.86                      | 17.77                         | 17.62                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 7         | 17.92                      | 17.80                         | 17.63                       | 17.6               | 3        |  |  |  |  |  |  |
| 5                                     | 16QAM      | 12      | 13        | 17.94                      | 17.84                         | 17.68                       |                    |          |  |  |  |  |  |  |
| 5                                     | 16QAM      | 25      | 0         | 17.94                      | 17.72                         | 17.70                       |                    |          |  |  |  |  |  |  |
| 5                                     | 256QAM     | 1       | 0         | 15.40                      | 15.27                         | 15.1                        | 16.3               | 5        |  |  |  |  |  |  |
| 5                                     | 256QAM     | 1       | 12        | 15.53                      | 15.45                         | 15.17                       |                    |          |  |  |  |  |  |  |
| 5                                     | 256QAM     | 1       | 24        | 15.52                      | 15.61                         | 15.34                       |                    |          |  |  |  |  |  |  |
| 5                                     | 256QAM     | 12      | 0         | 15.68                      | 15.65                         | 15.21                       | 16.3               | 5        |  |  |  |  |  |  |
| 5                                     | 256QAM     | 12      | 7         | 15.67                      | 15.78                         | 15.39                       |                    |          |  |  |  |  |  |  |
| 5                                     | 256QAM     | 12      | 13        | 15.58                      | 15.51                         | 15.32                       |                    |          |  |  |  |  |  |  |
| 5                                     | 256QAM     | 25      | 0         | 15.86                      | 15.86                         | 15.32                       | 20.6               | 0        |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 1       | 0         | 20.57                      | 20.51                         | 20.20                       | 21.3               | 0        |  |  |  |  |  |  |
| 3                                     | QPSK       | 1       | 12        | 20.60                      | 20.54                         | 20.23                       |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 1       | 24        | 20.63                      | 20.59                         | 20.23                       |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 1       | 14        | 20.67                      | 20.51                         | 20.20                       | 20.3               | 1        |  |  |  |  |  |  |
| 3                                     | QPSK       | 8       | 0         | 19.71                      | 19.68                         | 19.38                       |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 8       | 7         | 19.73                      | 19.68                         | 19.38                       |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 8       | 7         | 19.73                      | 19.62                         | 19.35                       | 20.3               | 1        |  |  |  |  |  |  |
| 3                                     | QPSK       | 16      | 0         | 19.71                      | 19.62                         | 19.38                       |                    |          |  |  |  |  |  |  |
| 3                                     | QPSK       | 16      | 7         | 19.73                      | 19.68                         | 19.38                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 0         | 19.88                      | 20.04                         | 19.85                       | 20.3               | 1        |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 14        | 19.76                      | 19.82                         | 19.55                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 28        | 19.74                      | 19.82                         | 19.55                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 0         | 18.84                      | 18.90                         | 18.43                       | 19.3               | 2        |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 7         | 18.72                      | 18.60                         | 18.33                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 14        | 18.68                      | 18.52                         | 18.45                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 0         | 18.74                      | 18.66                         | 18.72                       | 18.3               | 3        |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 8         | 19.03                      | 19.00                         | 19.34                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 1       | 16        | 19.00                      | 18.98                         | 19.34                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 0         | 17.78                      | 17.87                         | 17.62                       | 17.6               | 3        |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 8         | 17.84                      | 17.82                         | 17.77                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 8       | 16        | 17.84                      | 17.74                         | 17.62                       |                    |          |  |  |  |  |  |  |
| 3                                     | 16QAM      | 16      | 0         | 17.85                      | 17.81                         | 17.60                       | 16.3               | 5        |  |  |  |  |  |  |
| 3                                     | 256QAM     | 1       | 0         | 15.43                      | 15.41                         | 15.14                       |                    |          |  |  |  |  |  |  |
| 3                                     | 256QAM     | 1       | 8         | 15.49                      | 15.33                         | 15.14                       |                    |          |  |  |  |  |  |  |
| 3                                     | 256QAM     | 1       | 16        | 15.48                      | 15.41                         | 15.14                       | 16.3               | 5        |  |  |  |  |  |  |
| 3                                     | 256QAM     | 8       | 0         | 15.62                      | 15.62                         | 15.25                       |                    |          |  |  |  |  |  |  |
| 3                                     | 256QAM     | 8       | 8         | 15.60                      | 15.52                         | 15.25                       |                    |          |  |  |  |  |  |  |
| 3                                     | 256QAM     | 8       | 16        | 15.58                      | 15.56                         | 15.32                       | 16.3               | 5        |  |  |  |  |  |  |
| 3                                     | 256QAM     | 16      | 0         | 15.59                      | 15.59                         | 15.32                       |                    |          |  |  |  |  |  |  |
| 3                                     | 256QAM     | 16      | 8         | 15.57                      | 15.53                         | 15.32                       |                    |          |  |  |  |  |  |  |
| Channel                               |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| Frequency (MHz)                       |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 1       | 0         | 20.46                      | 20.46                         | 20.20                       | 21.3               | 0        |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 1       | 16        | 20.46                      | 20.46                         | 20.20                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 1       | 32        | 20.42                      | 20.42                         | 20.20                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 1       | 16        | 20.51                      | 20.50                         | 20.23                       | 20.3               | 1        |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 3       | 0         | 20.40                      | 20.48                         | 20.21                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | QPSK       | 3       | 16        | 20.40                      | 20.48                         | 20.21                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 0         | 19.86                      | 19.91                         | 19.52                       | 20.3               | 1        |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 8         | 19.90                      | 19.88                         | 19.52                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 16        | 19.86                      | 19.88                         | 19.54                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 3       | 0         | 19.85                      | 19.82                         | 19.48                       | 19.3               | 2        |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 3       | 8         | 19.87                      | 19.85                         | 19.48                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 3       | 16        | 19.82                      | 19.82                         | 19.48                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 6       | 0         | 19.88                      | 19.12                         | 18.46                       | 18.3               | 3        |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 6       | 8         | 19.93                      | 18.86                         | 18.65                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 6       | 16        | 19.73                      | 18.79                         | 18.48                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 0         | 18.91                      | 18.90                         | 18.66                       | 17.6               | 3        |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 8         | 18.86                      | 18.84                         | 18.64                       |                    |          |  |  |  |  |  |  |
| 1.4                                   | 16QAM      | 1       | 16        | 18.84                      | 18.84                         | 18.63                       |                    |          |  |  |  |  |  |  |
| 1.4</                                 |            |         |           |                            |                               |                             |                    |          |  |  |  |  |  |  |

| Ant 7 Band 7 Down Power / DSI 1/5 |            |         |           |                          |                             |                           |                           |             |  |
|-----------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |
| Frequency (MHz)                   |            |         |           |                          |                             |                           |                           |             |  |
| 20                                | QPSK       | 1       | 0         | 18.68                    | 18.99                       | 18.73                     | 19.6                      | 0           |  |
| 20                                | QPSK       | 1       | 49        | 18.72                    | 18.84                       | 18.79                     |                           |             |  |
| 20                                | QPSK       | 1       | 99        | 18.71                    | 18.95                       | 18.87                     |                           |             |  |
| 20                                | QPSK       | 50      | 0         | 18.87                    | 18.88                       | 18.72                     | 19.6                      | 0           |  |
| 20                                | QPSK       | 50      | 24        | 18.95                    | 18.86                       | 18.90                     |                           |             |  |
| 20                                | QPSK       | 50      | 50        | 18.70                    | 18.83                       | 18.78                     |                           |             |  |
| 20                                | QPSK       | 100     | 0         | 18.90                    | 18.97                       | 18.98                     | 19.6                      | 0           |  |
| 20                                | 16QAM      | 1       | 49        | 18.97                    | 18.95                       | 18.98                     |                           |             |  |
| 20                                | 16QAM      | 1       | 99        | 18.96                    | 18.97                       | 18.93                     |                           |             |  |
| 20                                | 16QAM      | 50      | 0         | 17.92                    | 17.80                       | 18.00                     | 18.6                      | 1           |  |
| 20                                | 16QAM      | 50      | 24        | 17.76                    | 17.92                       | 18.03                     |                           |             |  |
| 20                                | 16QAM      | 50      | 50        | 17.81                    | 17.96                       | 17.96                     |                           |             |  |
| 20                                | 16QAM      | 100     | 0         | 17.76                    | 17.84                       | 18.05                     | 18.6                      | 1           |  |
| 20                                | 64QAM      | 1       | 0         | 17.92                    | 17.95                       | 17.95                     |                           |             |  |
| 20                                | 64QAM      | 1       | 49        | 17.94                    | 18.05                       | 18.03                     |                           |             |  |
| 20                                | 64QAM      | 1       | 99        | 18.22                    | 18.13                       | 18.02                     | 17.6                      | 2           |  |
| 20                                | 64QAM      | 50      | 0         | 16.78                    | 16.92                       | 16.84                     |                           |             |  |
| 20                                | 64QAM      | 50      | 24        | 16.95                    | 17.04                       | 17.21                     |                           |             |  |
| 20                                | 64QAM      | 50      | 50        | 16.80                    | 17.00                       | 16.97                     | 17.6                      | 2           |  |
| 20                                | 64QAM      | 100     | 0         | 16.86                    | 16.93                       | 17.15                     |                           |             |  |
| 20                                | 256QAM     | 1       | 0         | 14.64                    | 14.84                       | 14.66                     |                           |             |  |
| 20                                | 256QAM     | 1       | 49        | 14.67                    | 14.62                       | 14.80                     | 15.6                      | 4           |  |
| 20                                | 256QAM     | 1       | 99        | 14.47                    | 14.64                       | 14.64                     |                           |             |  |
| 20                                | 256QAM     | 50      | 0         | 14.86                    | 15.08                       | 14.86                     |                           |             |  |
| 20                                | 256QAM     | 50      | 24        | 14.88                    | 14.91                       | 14.83                     | 15.6                      | 4           |  |
| 20                                | 256QAM     | 50      | 50        | 14.74                    | 14.92                       | 14.87                     |                           |             |  |
| 20                                | 256QAM     | 100     | 0         | 14.94                    | 14.87                       | 15.02                     |                           |             |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |
| Frequency (MHz)                   |            |         |           |                          |                             |                           |                           |             |  |
| 15                                | QPSK       | 1       | 0         | 18.82                    | 18.75                       | 18.84                     | 19.6                      | 0           |  |
| 15                                | QPSK       | 1       | 37        | 18.71                    | 18.82                       | 18.84                     |                           |             |  |
| 15                                | QPSK       | 1       | 74        | 18.87                    | 18.89                       | 18.61                     |                           |             |  |
| 15                                | QPSK       | 36      | 0         | 18.88                    | 18.77                       | 18.78                     | 19.6                      | 0           |  |
| 15                                | QPSK       | 36      | 20        | 18.63                    | 18.85                       | 18.75                     |                           |             |  |
| 15                                | QPSK       | 36      | 39        | 18.76                    | 18.89                       | 18.77                     |                           |             |  |
| 15                                | QPSK       | 75      | 0         | 18.96                    | 18.80                       | 18.82                     | 19.6                      | 0           |  |
| 15                                | 16QAM      | 1       | 0         | 18.77                    | 18.85                       | 18.81                     |                           |             |  |
| 15                                | 16QAM      | 1       | 37        | 18.67                    | 18.82                       | 18.87                     |                           |             |  |
| 15                                | 16QAM      | 1       | 74        | 18.76                    | 18.87                       | 18.69                     | 18.6                      | 1           |  |
| 15                                | 16QAM      | 36      | 0         | 17.70                    | 17.83                       | 18.05                     |                           |             |  |
| 15                                | 16QAM      | 36      | 20        | 17.88                    | 17.86                       | 17.87                     |                           |             |  |
| 15                                | 16QAM      | 36      | 39        | 17.89                    | 18.00                       | 18.06                     | 17.6                      | 2           |  |
| 15                                | 16QAM      | 75      | 0         | 17.96                    | 17.86                       | 17.82                     |                           |             |  |
| 15                                | 64QAM      | 1       | 0         | 17.96                    | 18.02                       | 18.04                     |                           |             |  |
| 15                                | 64QAM      | 1       | 37        | 17.94                    | 18.10                       | 17.94                     | 18.6                      | 1           |  |
| 15                                | 64QAM      | 1       | 74        | 18.03                    | 18.17                       | 18.02                     |                           |             |  |
| 15                                | 64QAM      | 36      | 0         | 16.93                    | 16.80                       | 17.06                     |                           |             |  |
| 15                                | 64QAM      | 36      | 20        | 16.88                    | 17.05                       | 17.02                     | 17.6                      | 2           |  |
| 15                                | 64QAM      | 36      | 39        | 16.91                    | 17.09                       | 17.12                     |                           |             |  |
| 15                                | 64QAM      | 75      | 0         | 16.83                    | 16.96                       | 16.92                     |                           |             |  |
| 15                                | 256QAM     | 1       | 0         | 14.36                    | 14.48                       | 14.72                     | 15.6                      | 4           |  |
| 15                                | 256QAM     | 1       | 37        | 14.39                    | 14.67                       | 14.60                     |                           |             |  |
| 15                                | 256QAM     | 1       | 74        | 14.58                    | 14.45                       | 14.26                     |                           |             |  |
| 15                                | 256QAM     | 36      | 0         | 15.00                    | 15.00                       | 15.04                     | 15.6                      | 4           |  |
| 15                                | 256QAM     | 36      | 20        | 14.81                    | 14.93                       | 14.83                     |                           |             |  |
| 15                                | 256QAM     | 36      | 39        | 14.72                    | 15.04                       | 14.81                     |                           |             |  |
| 15                                | 256QAM     | 75      | 0         | 14.64                    | 14.79                       | 14.66                     |                           |             |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |
| Frequency (MHz)                   |            |         |           |                          |                             |                           |                           |             |  |
| 10                                | QPSK       | 1       | 0         | 18.74                    | 18.92                       | 18.87                     | 19.6                      | 0           |  |
| 10                                | QPSK       | 1       | 25        | 18.75                    | 18.82                       | 18.80                     |                           |             |  |
| 10                                | QPSK       | 1       | 49        | 18.86                    | 18.95                       | 18.83                     |                           |             |  |
| 10                                | QPSK       | 25      | 0         | 18.83                    | 18.76                       | 18.79                     | 19.6                      | 0           |  |
| 10                                | QPSK       | 25      | 12        | 18.77                    | 18.90                       | 18.85                     |                           |             |  |
| 10                                | QPSK       | 25      | 25        | 18.89                    | 18.88                       | 18.40                     |                           |             |  |
| 10                                | QPSK       | 50      | 0         | 18.77                    | 18.86                       | 18.87                     | 19.6                      | 0           |  |
| 10                                | 16QAM      | 1       | 0         | 18.77                    | 18.74                       | 18.85                     |                           |             |  |
| 10                                | 16QAM      | 1       | 25        | 18.76                    | 18.85                       | 18.76                     |                           |             |  |
| 10                                | 16QAM      | 1       | 49        | 18.67                    | 18.96                       | 18.87                     | 18.6                      | 1           |  |
| 10                                | 16QAM      | 25      | 0         | 17.73                    | 17.91                       | 17.82                     |                           |             |  |
| 10                                | 16QAM      | 25      | 12        | 17.74                    | 17.86                       | 17.68                     |                           |             |  |
| 10                                | 16QAM      | 25      | 25        | 17.64                    | 17.76                       | 17.85                     | 18.6                      | 1           |  |
| 10                                | 16QAM      | 50      | 0         | 17.69                    | 17.93                       | 17.74                     |                           |             |  |
| 10                                | 64QAM      | 1       | 0         | 17.86                    | 18.14                       | 17.95                     |                           |             |  |
| 10                                | 64QAM      | 1       | 25        | 17.95                    | 18.08                       | 18.03                     | 18.6                      | 1           |  |
| 10                                | 64QAM      | 1       | 49        | 18.07                    | 17.97                       | 17.92                     |                           |             |  |
| 10                                | 64QAM      | 25      | 0         | 16.95                    | 17.05                       | 16.91                     |                           |             |  |
| 10                                | 64QAM      | 25      | 12        | 17.00                    | 16.94                       | 16.94                     | 17.6                      | 2           |  |
| 10                                | 64QAM      | 25      | 25        | 16.87                    | 17.09                       | 16.96                     |                           |             |  |
| 10                                | 64QAM      | 50      | 0         | 16.78                    | 16.90                       | 17.03                     |                           |             |  |
| 10                                | 256QAM     | 1       | 0         | 14.28                    | 14.42                       | 14.41                     | 15.6                      | 4           |  |
| 10                                | 256QAM     | 1       | 25        | 14.28                    | 14.53                       | 14.56                     |                           |             |  |
| 10                                | 256QAM     | 1       | 49        | 14.30                    | 14.39                       | 14.42                     |                           |             |  |
| 10                                | 256QAM     | 25      | 0         | 14.73                    | 14.61                       | 14.76                     | 15.6                      | 4           |  |
| 10                                | 256QAM     | 25      | 12        | 14.84                    | 14.93                       | 14.82                     |                           |             |  |
| 10                                | 256QAM     | 25      | 25        | 14.72                    | 14.96                       | 14.87                     |                           |             |  |
| 10                                | 256QAM     | 50      | 0         | 14.58                    | 14.73                       | 14.63                     |                           |             |  |
| Channel                           |            |         |           |                          |                             |                           |                           |             |  |
| Frequency (MHz)                   |            |         |           |                          |                             |                           |                           |             |  |
| 5                                 | QPSK       | 1       | 0         | 18.69                    | 18.70                       | 18.85                     | 19.6                      | 0           |  |
| 5                                 | QPSK       | 1       | 12        | 18.82                    | 18.74                       | 18.86                     |                           |             |  |
| 5                                 | QPSK       | 1       | 24        | 18.61                    | 18.80                       | 18.69                     |                           |             |  |
| 5                                 | QPSK       | 12      | 0         | 18.73                    | 18.87                       | 18.78                     | 19.6                      | 0           |  |
| 5                                 | QPSK       | 12      | 7         | 18.76                    | 18.87                       | 18.89                     |                           |             |  |
| 5                                 | QPSK       | 12      | 13        | 18.73                    | 18.86                       | 18.81                     |                           |             |  |
| 5                                 | QPSK       | 25      | 0         | 18.78                    | 18.86                       | 18.88                     | 19.6                      | 0           |  |
| 5                                 | 16QAM      | 1       | 0         | 18.69                    | 18.88                       | 18.59                     |                           |             |  |
| 5                                 | 16QAM      | 1       | 12        | 18.61                    | 18.78                       | 18.78                     |                           |             |  |
| 5                                 | 16QAM      | 1       | 24        | 18.70                    | 18.77                       | 18.80                     | 18.6                      | 1           |  |
| 5                                 | 16QAM      | 12      | 0         | 17.81                    | 17.88                       | 18.04                     |                           |             |  |
| 5                                 | 16QAM      | 12      | 7         | 17.86                    | 18.02                       | 17.86                     |                           |             |  |
| 5                                 | 16QAM      | 12      | 13        | 17.74                    | 17.98                       | 17.84                     | 18.6                      | 1           |  |
| 5                                 | 16QAM      | 25      | 0         | 17.84                    | 17.95                       | 17.83                     |                           |             |  |
| 5                                 | 64QAM      | 1       | 0         | 17.93                    | 17.98                       | 18.02                     |                           |             |  |
| 5                                 | 64QAM      | 1       | 12        | 17.80                    | 18.01                       | 18.03                     | 18.6                      | 1           |  |
| 5                                 | 64QAM      | 1       | 24        | 17.83                    | 18.05                       | 17.96                     |                           |             |  |
| 5                                 | 64QAM      | 12      | 0         | 16.87                    | 16.97                       | 17.07                     |                           |             |  |
| 5                                 | 64QAM      | 12      | 7         | 16.94                    | 17.07                       | 16.85                     | 17.6                      | 2           |  |
| 5                                 | 64QAM      | 12      | 13        | 16.84                    | 17.04                       | 16.96                     |                           |             |  |
| 5                                 | 64QAM      | 25      | 0         | 16.90                    | 17.10                       | 16.81                     |                           |             |  |
| 5                                 | 256QAM     | 1       | 0         | 14.61                    | 14.67                       | 14.73                     | 15.6                      | 4           |  |
| 5                                 | 256QAM     | 1       | 12        | 14.61                    | 14.61                       | 14.75                     |                           |             |  |
| 5                                 | 256QAM     | 1       | 24        | 14.66                    | 14.80                       | 14.58                     |                           |             |  |
| 5                                 | 256QAM     | 12      | 0         | 14.60                    | 14.72                       | 14.66                     | 15.6                      | 4           |  |
| 5                                 | 256QAM     | 12      | 7         | 14.69                    | 14.90                       | 14.76                     |                           |             |  |
| 5                                 | 256QAM     | 12      | 13        | 14.71                    | 14.79                       | 14.78                     |                           |             |  |
| 5                                 | 256QAM     | 25      | 0         | 14.72                    | 14.89                       | 14.96                     |                           |             |  |



| Ant5 Band 41 Full Power / DSI 1/3/4/5 |            |         |           |                              |                       |                           |                            |                        |                        |                     |          |  |
|---------------------------------------|------------|---------|-----------|------------------------------|-----------------------|---------------------------|----------------------------|------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                              | Modulation | RB Size | RB Offset | for IC Power Low Ch. / Freq. | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                               |            |         |           | 30790                        | 30790                 | 40185                     | 40620                      | 41055                  | 41490                  |                     |          |  |
| Frequency (MHz)                       |            |         |           | 25.10                        | 25.06                 | 2549.5                    | 2593                       | 2636.5                 | 2680                   |                     |          |  |
| 20                                    | QPSK       | 1       | 0         | 19.15                        | 19.39                 | 19.58                     | 19.89                      | 19.82                  | 19.81                  | 20.5                | 0        |  |
| 20                                    | QPSK       | 1       | 49        | 19.53                        | 19.48                 | 19.68                     | 19.70                      | 19.83                  | 19.86                  |                     |          |  |
| 20                                    | QPSK       | 1       | 99        | 19.56                        | 19.57                 | 19.73                     | 19.69                      | 19.59                  | 19.83                  |                     |          |  |
| 20                                    | QPSK       | 50      | 0         | 18.90                        | 18.96                 | 18.85                     | 18.87                      | 18.92                  | 18.96                  | 19.5                | 1        |  |
| 20                                    | QPSK       | 50      | 24        | 19.00                        | 18.85                 | 18.87                     | 18.96                      | 19.21                  | 19.32                  |                     |          |  |
| 20                                    | QPSK       | 50      | 50        | 19.03                        | 19.05                 | 18.90                     | 18.99                      | 19.21                  | 19.32                  |                     |          |  |
| 20                                    | QPSK       | 100     | 0         | 18.91                        | 18.90                 | 18.89                     | 18.94                      | 19.18                  | 19.32                  |                     |          |  |
| 20                                    | 16QAM      | 1       | 0         | 18.84                        | 18.83                 | 18.82                     | 18.14                      | 18.23                  | 19.29                  | 19.5                | 1        |  |
| 20                                    | 16QAM      | 1       | 49        | 18.89                        | 18.82                 | 18.89                     | 18.96                      | 18.12                  | 19.29                  |                     |          |  |
| 20                                    | 16QAM      | 1       | 99        | 18.86                        | 18.93                 | 18.86                     | 18.95                      | 18.30                  | 19.21                  |                     |          |  |
| 20                                    | 16QAM      | 50      | 0         | 18.01                        | 18.00                 | 17.96                     | 18.19                      | 18.34                  | 18.31                  | 18.5                | 2        |  |
| 20                                    | 16QAM      | 50      | 24        | 18.13                        | 18.13                 | 18.08                     | 18.19                      | 18.37                  | 18.35                  |                     |          |  |
| 20                                    | 16QAM      | 50      | 50        | 18.17                        | 18.15                 | 18.12                     | 18.25                      | 18.46                  | 18.37                  |                     |          |  |
| 20                                    | 16QAM      | 100     | 0         | 17.90                        | 17.91                 | 17.86                     | 17.96                      | 18.28                  | 18.33                  |                     |          |  |
| 20                                    | 64QAM      | 1       | 0         | 17.77                        | 17.79                 | 17.75                     | 17.75                      | 18.06                  | 17.99                  | 18.5                | 2        |  |
| 20                                    | 64QAM      | 1       | 49        | 18.00                        | 17.82                 | 17.74                     | 17.87                      | 17.96                  | 18.07                  |                     |          |  |
| 20                                    | 64QAM      | 1       | 99        | 17.88                        | 17.80                 | 17.85                     | 17.97                      | 17.96                  | 17.97                  |                     |          |  |
| 20                                    | 64QAM      | 50      | 0         | 16.73                        | 16.75                 | 16.73                     | 16.93                      | 17.05                  | 17.02                  | 17.5                | 3        |  |
| 20                                    | 64QAM      | 50      | 24        | 16.87                        | 16.87                 | 16.80                     | 16.90                      | 17.17                  | 17.04                  |                     |          |  |
| 20                                    | 64QAM      | 50      | 50        | 16.92                        | 16.92                 | 16.87                     | 16.97                      | 17.00                  | 17.07                  |                     |          |  |
| 20                                    | 64QAM      | 100     | 0         | 16.97                        | 16.97                 | 16.94                     | 16.99                      | 17.06                  | 17.07                  | 15.5                | 5        |  |
| 20                                    | 256QAM     | 1       | 0         | 14.42                        | 14.34                 | 14.39                     | 14.71                      | 14.56                  | 14.59                  |                     |          |  |
| 20                                    | 256QAM     | 1       | 49        | 14.66                        | 14.39                 | 14.37                     | 14.39                      | 14.62                  | 14.63                  | 15.5                | 5        |  |
| 20                                    | 256QAM     | 1       | 99        | 14.36                        | 14.23                 | 14.51                     | 14.39                      | 14.60                  | 14.60                  |                     |          |  |
| 20                                    | 256QAM     | 50      | 0         | 14.32                        | 14.42                 | 14.47                     | 14.54                      | 14.77                  | 14.72                  |                     |          |  |
| 20                                    | 256QAM     | 50      | 24        | 14.40                        | 14.55                 | 14.72                     | 14.46                      | 14.57                  | 14.74                  | 15.5                | 5        |  |
| 20                                    | 256QAM     | 50      | 50        | 14.48                        | 14.48                 | 14.52                     | 14.78                      | 14.72                  | 14.83                  |                     |          |  |
| 20                                    | 256QAM     | 100     | 0         | 14.50                        | 14.61                 | 14.51                     | 14.86                      | 14.84                  | 14.63                  |                     |          |  |
| Channel                               |            |         |           | 39765                        | 39725                 | 40173                     | 40600                      | 41068                  | 41515                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                       |            |         |           | 2507.5                       | 2503.5                | 2548.3                    | 2593                       | 2637.8                 | 2682.5                 |                     |          |  |
| 15                                    | QPSK       | 1       | 0         | 19.76                        | 19.80                 | 19.61                     | 19.81                      | 19.90                  | 19.93                  | 20.5                | 0        |  |
| 15                                    | QPSK       | 1       | 37        | 19.68                        | 19.71                 | 19.63                     | 19.79                      | 19.83                  | 19.92                  |                     |          |  |
| 15                                    | QPSK       | 1       | 74        | 19.70                        | 19.74                 | 19.78                     | 19.92                      | 19.88                  | 19.93                  |                     |          |  |
| 15                                    | QPSK       | 36      | 0         | 18.80                        | 18.81                 | 18.67                     | 18.91                      | 18.98                  | 19.01                  | 19.5                | 1        |  |
| 15                                    | QPSK       | 36      | 20        | 18.81                        | 18.88                 | 18.76                     | 18.90                      | 18.98                  | 19.06                  |                     |          |  |
| 15                                    | QPSK       | 36      | 39        | 18.85                        | 18.89                 | 18.80                     | 18.93                      | 19.10                  | 19.06                  |                     |          |  |
| 15                                    | QPSK       | 75      | 0         | 18.86                        | 18.90                 | 18.77                     | 18.89                      | 19.01                  | 19.05                  |                     |          |  |
| 15                                    | 16QAM      | 1       | 0         | 18.81                        | 18.84                 | 18.67                     | 18.91                      | 19.01                  | 19.07                  | 19.5                | 1        |  |
| 15                                    | 16QAM      | 1       | 37        | 18.82                        | 18.81                 | 18.82                     | 18.89                      | 18.92                  | 19.07                  |                     |          |  |
| 15                                    | 16QAM      | 1       | 74        | 18.88                        | 18.90                 | 18.86                     | 19.04                      | 19.01                  | 19.05                  |                     |          |  |
| 15                                    | 16QAM      | 36      | 0         | 17.81                        | 17.77                 | 17.64                     | 17.88                      | 17.98                  | 17.99                  | 18.5                | 2        |  |
| 15                                    | 16QAM      | 36      | 20        | 17.81                        | 17.85                 | 17.74                     | 17.86                      | 17.95                  | 18.03                  |                     |          |  |
| 15                                    | 16QAM      | 36      | 39        | 17.84                        | 17.85                 | 17.79                     | 17.92                      | 18.07                  | 18.05                  |                     |          |  |
| 15                                    | 16QAM      | 75      | 0         | 17.87                        | 17.83                 | 17.81                     | 17.92                      | 18.03                  | 18.09                  | 18.5                | 2        |  |
| 15                                    | 64QAM      | 1       | 0         | 17.58                        | 17.66                 | 17.55                     | 17.76                      | 17.83                  | 17.89                  |                     |          |  |
| 15                                    | 64QAM      | 1       | 37        | 17.60                        | 17.65                 | 17.52                     | 17.70                      | 17.84                  | 17.90                  | 18.5                | 2        |  |
| 15                                    | 64QAM      | 1       | 74        | 17.58                        | 17.64                 | 17.75                     | 17.83                      | 17.97                  | 17.91                  |                     |          |  |
| 15                                    | 64QAM      | 36      | 0         | 16.85                        | 16.79                 | 16.71                     | 16.90                      | 16.99                  | 17.03                  | 19.5                | 3        |  |
| 15                                    | 64QAM      | 36      | 20        | 16.86                        | 16.89                 | 16.84                     | 16.97                      | 17.13                  | 17.05                  |                     |          |  |
| 15                                    | 64QAM      | 36      | 39        | 16.86                        | 16.89                 | 16.84                     | 16.97                      | 17.13                  | 17.05                  |                     |          |  |
| 15                                    | 64QAM      | 75      | 0         | 16.88                        | 16.89                 | 16.80                     | 16.90                      | 17.04                  | 17.05                  |                     |          |  |
| 15                                    | 256QAM     | 1       | 0         | 14.63                        | 14.61                 | 14.33                     | 14.38                      | 14.31                  | 14.56                  | 15.5                | 5        |  |
| 15                                    | 256QAM     | 1       | 37        | 14.45                        | 14.39                 | 14.48                     | 14.31                      | 14.50                  | 14.65                  |                     |          |  |
| 15                                    | 256QAM     | 1       | 74        | 14.26                        | 14.38                 | 14.34                     | 14.68                      | 14.69                  | 14.62                  |                     |          |  |
| 15                                    | 256QAM     | 36      | 0         | 14.46                        | 14.48                 | 14.43                     | 14.57                      | 14.66                  | 14.68                  | 15.5                | 5        |  |
| 15                                    | 256QAM     | 36      | 20        | 14.68                        | 14.71                 | 14.55                     | 14.77                      | 14.65                  | 14.75                  |                     |          |  |
| 15                                    | 256QAM     | 36      | 39        | 14.54                        | 14.46                 | 14.46                     | 14.42                      | 14.46                  | 14.79                  |                     |          |  |
| 15                                    | 256QAM     | 75      | 0         | 14.66                        | 14.58                 | 14.61                     | 14.43                      | 14.54                  | 14.87                  | 15.5                | 5        |  |
| Channel                               |            |         |           | 39760                        | 39700                 | 40160                     | 40620                      | 41080                  | 41540                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                       |            |         |           | 2507.5                       | 2503.5                | 2547.5                    | 2593                       | 2638.5                 | 2684.5                 |                     |          |  |
| 10                                    | QPSK       | 1       | 0         | 19.60                        | 19.68                 | 19.53                     | 19.68                      | 19.86                  | 19.96                  | 20.5                | 0        |  |
| 10                                    | QPSK       | 1       | 25        | 19.69                        | 19.74                 | 19.61                     | 19.79                      | 19.98                  | 19.91                  |                     |          |  |
| 10                                    | QPSK       | 1       | 49        | 19.79                        | 19.83                 | 19.66                     | 19.76                      | 19.85                  | 19.90                  |                     |          |  |
| 10                                    | QPSK       | 25      | 0         | 18.68                        | 18.74                 | 18.63                     | 18.83                      | 19.00                  | 19.03                  | 19.5                | 1        |  |
| 10                                    | QPSK       | 25      | 12        | 18.62                        | 18.89                 | 18.78                     | 18.84                      | 18.94                  | 19.04                  |                     |          |  |
| 10                                    | QPSK       | 25      | 25        | 18.85                        | 18.85                 | 18.67                     | 18.81                      | 18.95                  | 19.01                  |                     |          |  |
| 10                                    | QPSK       | 50      | 0         | 18.82                        | 18.87                 | 18.76                     | 18.84                      | 18.95                  | 19.04                  |                     |          |  |
| 10                                    | 16QAM      | 1       | 0         | 18.78                        | 18.83                 | 18.70                     | 18.80                      | 19.07                  | 19.06                  | 19.5                | 1        |  |
| 10                                    | 16QAM      | 1       | 25        | 18.83                        | 18.82                 | 18.75                     | 18.89                      | 19.12                  | 19.07                  |                     |          |  |
| 10                                    | 16QAM      | 1       | 49        | 18.87                        | 18.87                 | 18.78                     | 18.86                      | 18.96                  | 19.06                  |                     |          |  |
| 10                                    | 16QAM      | 25      | 0         | 17.72                        | 17.80                 | 17.88                     | 17.89                      | 18.05                  | 18.04                  | 18.5                | 2        |  |
| 10                                    | 16QAM      | 25      | 12        | 17.85                        | 17.85                 | 17.81                     | 17.87                      | 17.98                  | 18.01                  |                     |          |  |
| 10                                    | 16QAM      | 25      | 25        | 17.84                        | 17.85                 | 17.80                     | 17.88                      | 17.95                  | 18.04                  |                     |          |  |
| 10                                    | 16QAM      | 50      | 0         | 17.87                        | 17.84                 | 17.79                     | 17.85                      | 17.95                  | 18.04                  |                     |          |  |
| 10                                    | 64QAM      | 1       | 0         | 17.69                        | 17.75                 | 17.54                     | 17.79                      | 17.86                  | 17.94                  | 18.5                | 2        |  |
| 10                                    | 64QAM      | 1       | 25        | 17.72                        | 17.72                 | 17.59                     | 17.79                      | 17.90                  | 17.87                  |                     |          |  |
| 10                                    | 64QAM      | 1       | 49        | 17.78                        | 17.78                 | 17.68                     | 17.78                      | 17.88                  | 17.98                  |                     |          |  |
| 10                                    | 64QAM      | 25      | 0         | 16.67                        | 16.79                 | 16.63                     | 16.82                      | 17.06                  | 17.01                  | 19.5                | 3        |  |
| 10                                    | 64QAM      | 25      | 12        | 16.81                        | 16.84                 | 16.75                     | 16.87                      | 16.94                  | 17.03                  |                     |          |  |
| 10                                    | 64QAM      | 25      | 25        | 16.76                        | 16.79                 | 16.74                     | 16.90                      | 16.93                  | 17.01                  |                     |          |  |
| 10                                    | 64QAM      | 50      | 0         | 16.76                        | 16.77                 | 16.73                     | 16.82                      | 17.00                  | 16.99                  |                     |          |  |
| 10                                    | 256QAM     | 1       | 0         | 14.46                        | 14.48                 | 14.17                     | 14.42                      | 14.56                  | 14.17                  | 15.5                | 5        |  |
| 10                                    | 256QAM     | 1       | 24        | 14.30                        | 14.30                 | 14.23                     | 14.32                      | 14.46                  | 14.32                  |                     |          |  |
| 10                                    | 256QAM     | 1       | 49        | 14.19                        | 14.48                 | 14.29                     | 14.52                      | 14.56                  | 14.53                  |                     |          |  |
| 10                                    | 256QAM     | 25      | 0         | 14.46                        | 14.35                 | 14.33                     | 14.64                      | 14.44                  | 14.65                  |                     |          |  |
| 10                                    | 256QAM     | 25      | 12        | 14.25                        | 14.64                 | 14.37                     | 14.24                      | 14.59                  | 14.56                  | 15.5                | 5        |  |
| 10                                    | 256QAM     | 25      | 25        | 14.33                        | 14.68                 | 14.34                     | 14.35                      | 14.56                  | 14.63                  |                     |          |  |
| 10                                    | 256QAM     | 50      | 0         | 14.62                        | 14.63                 | 14.61                     | 14.77                      | 14.78                  | 14.64                  |                     |          |  |
| Channel                               |            |         |           | 39715                        | 39675                 | 40145                     | 40620                      | 41093                  | 41555                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                       |            |         |           | 2502.5                       | 2498.5                | 2545.8                    | 2593                       | 2640.30                | 2687.5                 |                     |          |  |
| 5                                     | QPSK       | 1       | 0         | 19.53                        | 19.71                 | 19.76                     | 19.76                      | 19.65                  | 19.91                  | 20.5                | 0        |  |
| 5                                     | QPSK       | 1       | 12        | 19.59                        | 19.68                 | 19.82                     | 19.83                      | 19.70                  | 19.90                  |                     |          |  |
| 5                                     | QPSK       | 1       | 24        | 19.60                        | 19.69                 | 19.82                     | 19.81                      | 19.73                  | 19.91                  |                     |          |  |
| 5                                     | QPSK       | 12      | 0         | 18.70                        | 18.79                 | 18.69                     | 18.84                      | 18.94                  | 19.04                  | 19.5                | 1        |  |
| 5                                     | QPSK       | 12      | 7         | 18.68                        | 18.83                 | 19.01                     | 18.96                      | 18.79                  | 19.05                  |                     |          |  |
| 5                                     | QPSK       | 12      | 13        | 18.80                        | 18.77                 | 18.97                     | 18.89                      | 18.86                  | 19.07                  |                     |          |  |
| 5                                     | QPSK       | 25      | 0         | 18.61                        | 18.78                 | 18.95                     | 18.83                      | 18.75                  | 19.01                  | 18.5                | 2        |  |
| 5                                     | 16QAM      | 1       | 0         | 18.80                        | 18.80                 | 18.91                     | 18.83                      | 18.78                  | 19.06                  |                     |          |  |
| 5                                     | 16QAM      | 1       | 12        | 18.70                        | 18.89                 | 19.01                     | 18.99                      | 18.88                  | 19.08                  | 19.5                | 1        |  |
| 5                                     | 16QAM      | 1       | 24        | 18.73                        | 18.86                 | 19.01                     | 18.90                      | 18.91                  | 19.07                  |                     |          |  |
| 5                                     | 16QAM      | 12      | 0         | 17.58                        | 17.76                 | 17.98                     | 17.82                      | 17.73                  | 17.99                  | 18.5                | 2        |  |
| 5                                     | 16QAM      | 12      | 7         | 17.67                        | 17.79                 | 18.00                     | 17.86                      | 17.78                  | 18.03                  |                     |          |  |
| 5                                     | 16QAM      | 12      | 13        | 17.63                        | 17.78                 | 17.95                     | 17.85                      | 17.82                  | 18.03                  |                     |          |  |
| 5                                     | 16QAM      | 25      | 0         | 17.63                        | 17.79                 | 18.00                     | 17.83                      | 17.83                  | 18.01                  | 17.5                | 3        |  |
| 5                                     | 64QAM      | 1       | 0         | 17.41                        | 17.56                 | 17.88                     | 17.78                      | 17.77                  | 17.85                  |                     |          |  |
| 5                                     | 64QAM      | 1       | 12        | 17.41                        | 17.58                 | 17.78                     | 17.66                      | 17.84                  | 17.86                  | 18.5                | 2        |  |
| 5                                     | 64QAM      | 1       | 24        | 17.47                        | 17.58                 | 17.75                     | 17.69                      | 17.66                  | 17.85                  |                     |          |  |
| 5                                     | 64QAM      | 12      | 0         | 16.64                        | 16.75                 | 16.93                     | 16.78                      | 16.79                  | 17.00                  | 17.5                | 3        |  |
| 5                                     | 64QAM      | 12      | 7         | 16.61                        | 16.80                 | 16.97                     | 16.82                      | 16.82                  | 17.01                  |                     |          |  |
| 5                                     | 64QAM      | 12      | 13        | 16.60                        | 16.72                 | 16.85                     | 16.67                      | 16.81                  | 17.03                  |                     |          |  |
| 5                                     | 64QAM      | 25      | 0         | 16.64                        | 16.77                 | 16.91                     | 16.77                      | 16.78                  | 16.99                  | 15.5                | 5        |  |
| 5                                     | 256QAM     | 1       | 0         | 14.28                        | 14.32                 | 14.43                     | 14.32                      | 14.29                  | 14.59                  |                     |          |  |
| 5                                     | 256QAM     | 1       | 12        | 14.31                        | 14.30                 | 14.54                     | 14.49                      | 14.62                  | 14.60                  | 15.5                | 5        |  |
| 5                                     | 256QAM     | 1       | 24        | 14.45                        | 14.52                 | 14.62                     | 14.36                      | 14.43                  | 14.55                  |                     |          |  |
| 5                                     | 256QAM     | 12      | 0         | 14.64                        | 14.39                 | 14.53                     | 14.72                      | 14.64                  | 14.63                  |                     |          |  |
| 5                                     | 256QAM     | 12      | 7         | 14.30                        | 14.35                 | 14.63                     | 14.63                      | 14.71                  | 14.71                  | 15.5                | 5        |  |
| 5                                     | 256QAM     | 12      | 13        | 14.55                        | 14.52                 | 14.36                     | 14.30                      | 14.41                  | 14.61                  |                     |          |  |
| 5                                     | 256QAM     | 25      | 0         | 13.99                        | 14.06</               |                           |                            |                        |                        |                     |          |  |



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Ant 2 Full Power/DSI-1/4

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.63                | 25.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.69                | 25.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.16                | 25.50               |

DSI-3/5

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 18.77                | 19.50               |
| 21100                                 | 20902       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 18.79                | 19.50               |
| 21350                                 | 21152       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 18.55                | 19.50               |

Ant 3 Full Power

| Full Power/DSI-1/4                    |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.31                | 24.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.63                | 24.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.11                | 24.50               |

DSI-1/5

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 13.71                | 15.00               |
| 21100                                 | 20902       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 14.08                | 15.00               |
| 21350                                 | 21152       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 13.48                | 15.00               |

DSI-7/3

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.2                 | 19.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.5                 | 19.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.24                | 19.50               |

DSI-7/4

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.18                | 20.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.56                | 20.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.04                | 20.50               |



Ant 6 Full Power

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.51                | 25.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.98                | 25.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.76                | 25.50               |

DS1-1

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 20.39                | 21.50               |
| 21100                                 | 20902       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 20.85                | 21.50               |
| 21350                                 | 21152       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 20.6                 | 21.50               |

DS1-3/5

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 18.44                | 19.50               |
| 21100                                 | 20902       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 18.87                | 19.50               |
| 21350                                 | 21152       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 18.67                | 19.50               |

DS1-4

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.36                | 24.50               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.87                | 24.50               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.61                | 24.50               |

Ant 7 Full Power/DS1-3/4

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.63                | 20.60               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.16                | 20.60               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.55                | 20.60               |

DS1-1/5

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 18.69                | 19.60               |
| 21100                                 | 20902       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 19.04                | 19.60               |
| 21350                                 | 21152       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 18.78                | 19.60               |



Ant\_2 Full Power/DSI-1/4

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.53                | 25.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.82                | 25.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.66                | 25.50               |

DSI-3/5

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 21.47                | 22.50               |
| 37901                                 | 38099       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 21.82                | 22.50               |
| 38150                                 | 37952       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 21.43                | 22.50               |

Ant\_3 Full Power

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.5                 | 24.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.67                | 24.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.65                | 24.50               |

DSI-1/5

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 16.44                | 17.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 16.64                | 17.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.56                | 17.50               |

DSI-4

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.41                | 22.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.63                | 22.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.58                | 22.50               |

DSI-3

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 19.38                | 20.50               |
| 37901                                 | 38099       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 19.61                | 20.50               |
| 38150                                 | 37952       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 19.53                | 20.50               |



Ant 6 Full Power/DSI-4

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.67                | 25.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.69                | 25.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.65                | 25.50               |

DSI-1

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 22.55                | 23.50               |
| 37901                                 | 38099       | QPSK       | 50      | 0         | 0       | 0         | 1             | 0                     | 22.76                | 23.50               |
| 38150                                 | 37952       | QPSK       | 50      | 0         | 1       | 99        | 2             | 0                     | 22.52                | 23.50               |

DSI-3/5

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 20.53                | 21.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 20.61                | 21.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.52                | 21.50               |

Ant 9 Full Power/DSI-1/3/4/5

| CA_38C                                |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.98                | 20.50               |
| 37901                                 | 38099       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 19.42                | 20.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 19.31                | 20.50               |



2CA DL

| Configure  | CA List  | PCC          |       |        |         |      |        |       | SCC     |       |        |         | Power    |            |
|------------|----------|--------------|-------|--------|---------|------|--------|-------|---------|-------|--------|---------|----------|------------|
|            |          | LTE          | BW    | UL     | UL      | Mod. | UL#    | UL    | LTE     | BW    | DL     | DL      | With CA  | Without CA |
|            |          | Band         | (MHz) | Freq   | Channel |      | RB     | RB    | Band    | (MHz) | Freq   | Channel | Tx Power | Tx Power   |
|            |          |              |       | (MHz)  | (MHz)   |      | Offset | (MHz) |         |       | (dBm)  | (dBm)   |          |            |
| Intra-Band | CA_4A-5A | Band 4_ANT2  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 5  | 10M   | 881.5  | 2525    | 24.30    | 24.33      |
|            |          | Band 4_ANT3  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 5  | 10M   | 881.5  | 2525    | 23.41    | 23.55      |
|            |          | Band 4_ANT6  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 5  | 10M   | 881.5  | 2525    | 24.39    | 24.57      |
|            |          | Band 4_ANT7  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 5  | 10M   | 881.5  | 2525    | 20.58    | 20.79      |
|            |          | Band 5_ANT1  | 10M   | 836.5  | 20525   | QPSK | 1      | 0     | Band 4  | 20M   | 2132.5 | 2175    | 24.33    | 24.45      |
|            |          | Band 5_ANT4  | 10M   | 836.5  | 20525   | QPSK | 1      | 0     | Band 4  | 20M   | 2132.5 | 2175    | 23.20    | 23.27      |
|            |          | Band 2_ANT2  | 20M   | 1980   | 18930   | QPSK | 1      | 0     | Band 2  | 20M   | 1979.8 | 1898    | 24.20    | 24.44      |
| Inter-Band | CA_2C    | Band 2_ANT6  | 20M   | 1980   | 18930   | QPSK | 1      | 0     | Band 2  | 20M   | 1979.8 | 1898    | 24.22    | 24.37      |
|            |          | Band 66_ANT2 | 20M   | 1745   | 132322  | QPSK | 1      | 0     | Band 66 | 20M   | 2174.8 | 67084   | 24.32    | 24.36      |
|            |          | Band 66_ANT6 | 20M   | 1745   | 132322  | QPSK | 1      | 0     | Band 66 | 20M   | 2174.8 | 67084   | 24.28    | 24.38      |

### 3CA DL

<Inter-Band for Three Carrier Combination> (three bands)

| Configure   | PCC         |       |        |         |      |     |           |        |       |        | SCC1    |        |       |        | SCC2    |                |                |  | Power |  |
|-------------|-------------|-------|--------|---------|------|-----|-----------|--------|-------|--------|---------|--------|-------|--------|---------|----------------|----------------|--|-------|--|
|             | LTE         | BW    | UL     | UL      | Mod. | UL# | UL        | LTE    | BW    | DL     | DL      | LTE    | BW    | DL     | DL      | With CA        | Without CA     |  |       |  |
|             | Band        | (MHz) | Freq.  | Channel |      | RB  | RB Offset | Band   | (MHz) | Freq.  | Channel | Band   | (MHz) | Freq.  | Channel | Tx Power (dBm) | Tx Power (dBm) |  |       |  |
|             |             |       |        |         |      |     |           |        |       |        |         |        |       |        |         |                |                |  |       |  |
| CA_2A-4A-7A | Band 2_ANT2 | 20M   | 1880   | 18900   | QPSK | 1   | 0         | Band 4 | 20M   | 2132.5 | 2175    | Band 7 | 20M   | 2655   | 3100    | 24.19          | 24.44          |  |       |  |
|             | Band 2_ANT6 | 20M   | 1880   | 18900   | QPSK | 1   | 0         | Band 4 | 20M   | 2132.5 | 2175    | Band 7 | 20M   | 2655   | 3100    | 24.24          | 24.37          |  |       |  |
|             | Band 4_ANT2 | 20M   | 1732.5 | 20175   | QPSK | 1   | 0         | Band 7 | 20M   | 2655   | 3100    | Band 2 | 20M   | 1960   | 900     | 24.21          | 24.33          |  |       |  |
|             | Band 4_ANT3 | 20M   | 1732.5 | 20175   | QPSK | 1   | 0         | Band 7 | 20M   | 2655   | 3100    | Band 2 | 20M   | 1960   | 900     | 23.43          | 23.55          |  |       |  |
|             | Band 4_ANT6 | 20M   | 1732.5 | 20175   | QPSK | 1   | 0         | Band 7 | 20M   | 2655   | 3100    | Band 2 | 20M   | 1960   | 900     | 24.12          | 24.57          |  |       |  |
|             | Band 4_ANT7 | 20M   | 1732.5 | 20175   | QPSK | 1   | 0         | Band 7 | 20M   | 2655   | 3100    | Band 2 | 20M   | 1960   | 900     | 20.34          | 20.79          |  |       |  |
|             | Band 7_ANT2 | 20M   | 2535   | 21100   | QPSK | 1   | 0         | Band 2 | 20M   | 1960   | 900     | Band 4 | 20M   | 2132.5 | 2175    | 24.61          | 24.74          |  |       |  |
|             | Band 7_ANT3 | 20M   | 2535   | 21100   | QPSK | 1   | 0         | Band 2 | 20M   | 1960   | 900     | Band 4 | 20M   | 2132.5 | 2175    | 23.11          | 23.36          |  |       |  |
|             | Band 7_ANT6 | 20M   | 2535   | 21100   | QPSK | 1   | 0         | Band 2 | 20M   | 1960   | 900     | Band 4 | 20M   | 2132.5 | 2175    | 24.78          | 25.02          |  |       |  |
|             | Band 7_ANT7 | 20M   | 2535   | 21100   | QPSK | 1   | 99        | Band 2 | 20M   | 1960   | 900     | Band 4 | 20M   | 2132.5 | 2175    | 19.65          | 19.89          |  |       |  |

| Configure   | PCC         |       |                |         |      |     |              |        | SCC1  |                |         |        | SCC2  |                |         |                   | Power      |  |
|-------------|-------------|-------|----------------|---------|------|-----|--------------|--------|-------|----------------|---------|--------|-------|----------------|---------|-------------------|------------|--|
|             | LTE         | BW    | UL             | UL      | Mod. | UL# | UL           | LTE    | BW    | DL             | DL      | LTE    | BW    | DL             | DL      | With CA           | Without CA |  |
|             | Band        | (MHz) | Freq.<br>(MHz) | Channel |      | RB  | RB<br>Offset | Band   | (MHz) | Freq.<br>(MHz) | Channel | Band   | (MHz) | Freq.<br>(MHz) | Channel | Tx Power<br>(dBm) | Tx Power   |  |
| CA_2A-7A-7A | Band 2_ANT2 | 20M   | 1880           | 18900   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 9M    | 2687.5         | 3425    | 24.2              | 24.44      |  |
|             | Band 2_ANT6 | 20M   | 1880           | 18900   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 9M    | 2687.5         | 3425    | 24.22             | 24.37      |  |
|             | Band 7_ANT2 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 2 | 20M   | 1960           | 900     | 24.66             | 24.74      |  |
|             | Band 7_ANT3 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 2 | 20M   | 1960           | 900     | 23.18             | 23.36      |  |
|             | Band 7_ANT6 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 2 | 20M   | 1960           | 900     | 24.93             | 25.02      |  |
|             | Band 7_ANT7 | 20M   | 2535           | 21100   | QPSK | 1   | 99           | Band 7 | 9M    | 2687.5         | 3425    | Band 2 | 20M   | 1960           | 900     | 19.8              | 19.89      |  |
|             | Band 2_ANT2 | 20M   | 1880           | 18900   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 24.2              | 24.44      |  |
|             | Band 2_ANT6 | 20M   | 1880           | 18900   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 24.32             | 24.37      |  |
|             | Band 7_ANT2 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 2 | 20M   | 1960           | 900     | 24.58             | 24.74      |  |
|             | Band 7_ANT3 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 2 | 20M   | 1960           | 900     | 23.26             | 23.36      |  |
| CA_2A-7C    | Band 7_ANT6 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 2 | 20M   | 1960           | 900     | 24.89             | 25.02      |  |
|             | Band 7_ANT7 | 20M   | 2535           | 21100   | QPSK | 1   | 99           | Band 7 | 20M   | 2674.8         | 3298    | Band 2 | 20M   | 1960           | 900     | 19.82             | 19.89      |  |
|             | Band 4_ANT2 | 20M   | 1732.5         | 20175   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 24.13             | 24.33      |  |
|             | Band 4_ANT3 | 20M   | 1732.5         | 20175   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 23.37             | 23.55      |  |
|             | Band 4_ANT6 | 20M   | 1732.5         | 20175   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 24.46             | 24.57      |  |
|             | Band 4_ANT7 | 20M   | 1732.5         | 20175   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 20.66             | 20.79      |  |
|             | Band 7_ANT2 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 4 | 20M   | 2132.5         | 2175    | 24.52             | 24.74      |  |
|             | Band 7_ANT3 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 4 | 20M   | 2132.5         | 2175    | 23.21             | 23.36      |  |
|             | Band 7_ANT6 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 4 | 20M   | 2132.5         | 2175    | 24.92             | 25.02      |  |
|             | Band 7_ANT7 | 20M   | 2535           | 21100   | QPSK | 1   | 99           | Band 7 | 20M   | 2674.8         | 3298    | Band 4 | 20M   | 2132.5         | 2175    | 19.77             | 19.89      |  |
| CA_5A-7A-7A | Band 5_ANT1 | 10M   | 836.5          | 20525   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 9M    | 2687.5         | 3425    | 24.36             | 24.45      |  |
|             | Band 5_ANT4 | 10M   | 836.5          | 20525   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 9M    | 2687.5         | 3425    | 23.21             | 23.27      |  |
|             | Band 7_ANT2 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 5 | 10M   | 881.5          | 2525    | 24.63             | 24.74      |  |
|             | Band 7_ANT3 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 5 | 10M   | 881.5          | 2525    | 23.11             | 23.36      |  |
|             | Band 7_ANT6 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 9M    | 2687.5         | 3425    | Band 5 | 10M   | 881.5          | 2525    | 24.28             | 25.02      |  |
|             | Band 7_ANT7 | 20M   | 2535           | 21100   | QPSK | 1   | 99           | Band 7 | 9M    | 2687.5         | 3425    | Band 5 | 10M   | 881.5          | 2525    | 19.67             | 19.89      |  |
|             | Band 5_ANT1 | 10M   | 836.5          | 20525   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 24.33             | 24.45      |  |
|             | Band 5_ANT4 | 10M   | 836.5          | 20525   | QPSK | 1   | 0            | Band 7 | 20M   | 2655           | 3100    | Band 7 | 20M   | 2674.8         | 3298    | 23.18             | 23.27      |  |
|             | Band 7_ANT2 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 5 | 10M   | 881.5          | 2525    | 24.7              | 24.74      |  |
|             | Band 7_ANT3 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 5 | 10M   | 881.5          | 2525    | 23.22             | 23.36      |  |
| CA_5A-7C    | Band 7_ANT6 | 20M   | 2535           | 21100   | QPSK | 1   | 0            | Band 7 | 20M   | 2674.8         | 3298    | Band 5 | 10M   | 881.5          | 2525    | 24.86             | 25.02      |  |
|             | Band 7_ANT7 | 20M   | 2535           | 21100   | QPSK | 1   | 99           | Band 7 | 20M   | 2674.8         | 3298    | Band 5 | 10M   | 881.5          | 2525    | 19.76             | 19.89      |  |

4CA DL

<Inter-Band for Three Carrier Combination> (four bands)

| Configure        |               | PCC          |       |               |         |      |     | SCC1    |         |        |               | SCC2    |         |        |               | SCC3    |         |        |               | Power   |                   |                   |
|------------------|---------------|--------------|-------|---------------|---------|------|-----|---------|---------|--------|---------------|---------|---------|--------|---------------|---------|---------|--------|---------------|---------|-------------------|-------------------|
|                  |               | LTE          | BW    | UL            | UL      | Mod. | UL# | UL      | LTE     | BW     | DL            | DL      | LTE     | BW     | DL            | DL      | LTE     | BW     | DL            | DL      | With CA           | Without CA        |
|                  |               | Band         | (MHz) | Freq<br>(MHz) | Channel |      | RB  | Offset  | Band    | (MHz)  | Freq<br>(MHz) | Channel | Band    | (MHz)  | Freq<br>(MHz) | Channel | Band    | (MHz)  | Freq<br>(MHz) | Channel | Tx Power<br>(dBm) | Tx Power<br>(dBm) |
| CA_5A-7A-66A-66A | Band 5_ANT1   | 10M          | 836.5 | 20525         | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100          | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | 24.21   | 24.45             |                   |
|                  | Band 5_ANT4   | 10M          | 836.5 | 20525         | QPSK    | 1    | 0   | Band 7  | 20M     | 2655   | 3100          | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | 23.12   | 23.27             |                   |
|                  | Band 7_ANT2   | 20M          | 2535  | 21100         | QPSK    | 1    | 0   | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | 24.65   | 24.74             |                   |
|                  | Band 7_ANT3   | 20M          | 2535  | 21100         | QPSK    | 1    | 0   | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | 23.96   | 23.96             |                   |
|                  | Band 7_ANT6   | 20M          | 2535  | 21100         | QPSK    | 1    | 0   | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | 24.59   | 25.02             |                   |
|                  | Band 7_ANT7   | 20M          | 2535  | 21100         | QPSK    | 1    | 99  | Band 66 | 20M     | 2155   | 66886         | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | 19.62   | 19.89             |                   |
|                  | Band 66_ANT2  | 20M          | 1745  | 132322        | QPSK    | 1    | 0   | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | Band 7  | 20M     | 2655   | 3100          | 24.22   | 24.36             |                   |
|                  | Band 66_ANT6  | 20M          | 1745  | 132322        | QPSK    | 1    | 0   | Band 66 | 5M      | 2197.5 | 67311         | Band 5  | 10M     | 881.5  | 2525          | Band 7  | 20M     | 2655   | 3100          | 24.07   | 24.38             |                   |
|                  | CA_7C-66A-66A | Band 7_ANT2  | 20M   | 2535          | 21100   | QPSK | 1   | 0       | Band 7  | 20M    | 2674.8        | 3298    | Band 66 | 20M    | 2155          | 66886   | Band 66 | 5M     | 2197.5        | 67311   | 24.66             | 24.74             |
|                  |               | Band 7_ANT3  | 20M   | 2535          | 21100   | QPSK | 1   | 0       | Band 7  | 20M    | 2674.8        | 3298    | Band 66 | 20M    | 2155          | 66886   | Band 66 | 5M     | 2197.5        | 67311   | 23.18             | 23.38             |
|                  |               | Band 7_ANT6  | 20M   | 2535          | 21100   | QPSK | 1   | 0       | Band 7  | 20M    | 2674.8        | 3298    | Band 66 | 20M    | 2155          | 66886   | Band 66 | 5M     | 2197.5        | 67311   | 24.87             | 25.02             |
|                  |               | Band 7_ANT7  | 20M   | 2535          | 21100   | QPSK | 1   | 99      | Band 7  | 20M    | 2674.8        | 3298    | Band 66 | 20M    | 2155          | 66886   | Band 66 | 5M     | 2197.5        | 67311   | 19.75             | 19.89             |
|                  |               | Band 66_ANT2 | 20M   | 1745          | 132322  | QPSK | 1   | 0       | Band 66 | 5M     | 2197.5        | 67311   | Band 7  | 20M    | 2655          | 3100    | Band 7  | 20M    | 2674.8        | 3298    | 24.27             | 24.36             |
|                  |               | Band 66_ANT6 | 20M   | 1745          | 132322  | QPSK | 1   | 0       | Band 66 | 5M     | 2197.5        | 67311   | Band 7  | 20M    | 2655          | 3100    | Band 7  | 20M    | 2674.8        | 3298    | 24.23             | 24.38             |

| Ant 1 n5 NSA/SA Full Power / DSI 1/4 |            |         |           |                       |                          |                        |                     |          |
|--------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                              |            |         |           | 166300                | 167300                   | 167500                 | 25.5                | 0.0      |
| Frequency (MHz)                      |            |         |           | 834                   | 836.5                    | 836                    |                     |          |
| 20                                   | PI/2 BPSK  | 1       | 1         | 25.02                 | 25.01                    | 24.94                  |                     |          |
| 20                                   | PI/2 BPSK  | 1       | 53        | 25.07                 | 25.12                    | 25.04                  | 25.5                | 0.0      |
| 20                                   | PI/2 BPSK  | 1       | 104       | 24.86                 | 24.86                    | 24.76                  |                     |          |
| 20                                   | PI/2 BPSK  | 50      | 0         | 24.58                 | 24.60                    | 24.52                  |                     |          |
| 20                                   | PI/2 BPSK  | 50      | 28        | 24.98                 | 25.04                    | 24.95                  | 25.0                | 0.5      |
| 20                                   | PI/2 BPSK  | 50      | 56        | 24.37                 | 24.43                    | 24.34                  |                     |          |
| 20                                   | PI/2 BPSK  | 100     | 0         | 24.52                 | 24.59                    | 24.50                  |                     |          |
| 20                                   | QPSK       | 1       | 1         | 25.18                 | 25.31                    | 25.28                  | 25.5                | 0.0      |
| 20                                   | QPSK       | 1       | 53        | 25.21                 | 25.26                    | 25.16                  |                     |          |
| 20                                   | QPSK       | 1       | 104       | 24.87                 | 24.92                    | 24.84                  |                     |          |
| 20                                   | QPSK       | 50      | 0         | 24.07                 | 24.13                    | 24.06                  | 24.5                | 1.0      |
| 20                                   | QPSK       | 50      | 28        | 25.14                 | 25.15                    | 25.06                  |                     |          |
| 20                                   | QPSK       | 50      | 56        | 23.93                 | 23.99                    | 23.90                  |                     |          |
| 20                                   | QPSK       | 100     | 0         | 24.07                 | 24.10                    | 24.02                  | 24.5                | 1.0      |
| 20                                   | 16QAM      | 1       | 1         | 24.58                 | 24.64                    | 24.56                  |                     |          |
| 20                                   | 64QAM      | 1       | 1         | 23.00                 | 22.99                    | 22.90                  |                     |          |
| 20                                   | 256QAM     | 1       | 1         | 20.48                 | 20.49                    | 20.39                  | 21.0                | 4.5      |
| Channel                              |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit       | MPR      |
| Frequency (MHz)                      |            |         |           | 831.5                 | 836.5                    | 841.5                  | (dBm)               | (dB)     |
| 15                                   | PI/2 BPSK  | 1       | 1         | 25.00                 | 25.08                    | 25.00                  | 25.5                | 0.0      |
| Channel                              |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit       | MPR      |
| Frequency (MHz)                      |            |         |           | 829                   | 836.5                    | 844                    | (dBm)               | (dB)     |
| 10                                   | PI/2 BPSK  | 1       | 1         | 24.97                 | 24.98                    | 24.88                  | 25.5                | 0.0      |
| Channel                              |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit       | MPR      |
| Frequency (MHz)                      |            |         |           | 826.5                 | 836.5                    | 846.5                  | (dBm)               | (dB)     |
| 5                                    | PI/2 BPSK  | 1       | 1         | 25.05                 | 25.10                    | 25.02                  | 25.5                | 0.0      |

### Ant 1 n5 NSA/SA Down power / DSI 3/5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166300                | 167300                   | 167300                 | 24.5                | 0.0      |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 836                    |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 23.95                 | 24.24                    | 24.21                  | 24.5                | 0.0      |
| 20              | PI/2 BPSK  | 1       | 53        | 24.15                 | 24.27                    | 24.26                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 23.89                 | 24.22                    | 24.19                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 23.53                 | 23.60                    | 23.59                  | 24.5                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 28        | 24.02                 | 24.18                    | 24.17                  | 24.5                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 56        | 23.57                 | 23.69                    | 23.66                  | 24.5                | 0.0      |
| 20              | PI/2 BPSK  | 100     | 0         | 23.56                 | 23.68                    | 23.65                  |                     |          |
| 20              | QPSK       | 1       | 1         | 23.94                 | 24.34                    | 24.30                  | 24.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 24.20                 | 24.29                    | 24.27                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.91                 | 24.27                    | 24.25                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.95                 | 23.17                    | 23.12                  | 24.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 23.91                 | 24.25                    | 24.21                  | 24.5                | 0.0      |
| 20              | QPSK       | 50      | 56        | 23.01                 | 23.25                    | 23.21                  | 24.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 22.79                 | 23.20                    | 23.19                  | 24.5                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 23.23                 | 23.35                    | 23.32                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 21.78                 | 21.67                    | 21.85                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 19.56                 | 19.64                    | 19.62                  | 21.0                | 3.5      |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  | (dBm)               | (dB)     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.90                 | 24.23                    | 24.16                  | 24.5                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 168300                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    | (dBm)               | (dB)     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.95                 | 24.27                    | 24.27                  | 24.5                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  | (dBm)               | (dB)     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.16                 | 24.23                    | 24.24                  | 24.5                | 0.0      |

| Ant 2 n7 SA/NSA Full Power / DSI 1/4 |            |         |           |                       |                          |                        |                     |          |
|--------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                              |            |         |           | 502000                | 507000                   | 512000                 |                     |          |
| Frequency (MHz)                      |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |
| 20                                   | PI/2 BPSK  | 1       | 1         | 20.63                 | 20.74                    | 21.11                  | 21.2                | 0.0      |
| 20                                   | PI/2 BPSK  | 1       | 53        | 20.96                 | 20.77                    | 21.01                  |                     |          |
| 20                                   | PI/2 BPSK  | 1       | 104       | 20.74                 | 20.72                    | 21.03                  |                     |          |
| 20                                   | PI/2 BPSK  | 50      | 0         | 19.87                 | 20.10                    | 20.32                  | 20.7                | 0.5      |
| 20                                   | PI/2 BPSK  | 50      | 28        | 20.71                 | 20.68                    | 20.91                  | 21.2                | 0.0      |
| 20                                   | PI/2 BPSK  | 50      | 56        | 20.13                 | 20.19                    | 20.54                  | 20.7                | 0.5      |
| 20                                   | PI/2 BPSK  | 100     | 0         | 20.45                 | 20.18                    | 20.48                  |                     |          |
| 20                                   | QPSK       | 1       | 1         | 20.44                 | 21.13                    | 20.84                  | 21.2                | 0.0      |
| 20                                   | QPSK       | 1       | 53        | 20.57                 | 21.10                    | 21.01                  |                     |          |
| 20                                   | QPSK       | 1       | 104       | 20.86                 | 20.77                    | 21.10                  |                     |          |
| 20                                   | QPSK       | 50      | 0         | 19.84                 | 19.67                    | 19.89                  | 20.2                | 1.0      |
| 20                                   | QPSK       | 50      | 28        | 20.93                 | 21.10                    | 21.09                  | 21.2                | 0.0      |
| 20                                   | QPSK       | 50      | 56        | 20.04                 | 19.75                    | 20.14                  | 20.2                | 1.0      |
| 20                                   | QPSK       | 100     | 0         | 19.86                 | 19.70                    | 20.05                  |                     |          |
| 20                                   | 16QAM      | 1       | 1         | 19.61                 | 19.85                    | 20.16                  | 20.2                | 1.0      |
| 20                                   | 64QAM      | 1       | 1         | 18.35                 | 18.37                    | 18.56                  | 18.7                | 2.5      |
| 20                                   | 256QAM     | 1       | 1         | 16.24                 | 16.14                    | 16.48                  | 16.7                | 4.5      |
| Channel                              |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                      |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |
| 15                                   | PI/2 BPSK  | 1       | 1         | 20.82                 | 20.68                    | 20.93                  | 21.2                | 0.0      |
| Channel                              |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                      |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |
| 10                                   | PI/2 BPSK  | 1       | 1         | 20.61                 | 20.65                    | 20.87                  | 21.2                | 0.0      |
| Channel                              |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                      |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |
| 5                                    | PI/2 BPSK  | 1       | 1         | 20.48                 | 20.68                    | 20.99                  | 21.2                | 0.0      |

| Ant 4 n41 SA Full Power / DSI 1/4 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 508202                | 518598                   | 535200                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 1         | 24.28                 | 24.40                    | 24.34                  | 25.5                | 0.0      |  |
| 100                               | PI/2 BPSK  | 1       | 137       | 24.08                 | 24.38                    | 24.34                  |                     |          |  |
| 100                               | PI/2 BPSK  | 1       | 271       | 22.84                 | 23.03                    | 22.97                  |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 0         | 23.44                 | 23.75                    | 23.70                  | 25.5                | 0.0      |  |
| 100                               | PI/2 BPSK  | 135     | 69        | 24.19                 | 24.30                    | 24.24                  |                     |          |  |
| 100                               | PI/2 BPSK  | 135     | 138       | 23.62                 | 23.70                    | 23.64                  |                     |          |  |
| 100                               | PI/2 BPSK  | 270     | 0         | 23.72                 | 23.79                    | 23.74                  | 25.0                | 0.5      |  |
| 100                               | QPSK       | 1       | 1         | 24.13                 | 24.44                    | 24.41                  | 25.5                | 0.0      |  |
| 100                               | QPSK       | 1       | 137       | 24.25                 | 24.38                    | 24.32                  |                     |          |  |
| 100                               | QPSK       | 1       | 271       | 22.41                 | 22.59                    | 22.55                  |                     |          |  |
| 100                               | QPSK       | 135     | 0         | 23.29                 | 23.34                    | 23.28                  | 25.5                | 0.0      |  |
| 100                               | QPSK       | 135     | 69        | 24.17                 | 24.25                    | 24.19                  |                     |          |  |
| 100                               | QPSK       | 135     | 138       | 22.45                 | 22.81                    | 22.76                  |                     |          |  |
| 100                               | QPSK       | 270     | 0         | 23.12                 | 23.31                    | 23.25                  | 24.5                | 1.0      |  |
| 100                               | 16QAM      | 1       | 1         | 22.60                 | 22.91                    | 22.85                  | 24.5                | 1.0      |  |
| 100                               | 64QAM      | 1       | 1         | 21.58                 | 21.70                    | 21.65                  | 23.0                | 2.5      |  |
| 100                               | 256QAM     | 1       | 1         | 20.16                 | 20.24                    | 20.19                  | 21.0                | 4.5      |  |
| Channel                           |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2541                  | 2592.99                  | 2644.98                | (dBm)               | (dB)     |  |
| 90                                | PI/2 BPSK  | 1       | 1         | 24.22                 | 24.34                    | 24.28                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 507204                | 518598                   | 529593                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2536.02               | 2592.99                  | 2649.99                | (dBm)               | (dB)     |  |
| 80                                | PI/2 BPSK  | 1       | 1         | 24.03                 | 24.33                    | 24.29                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2526                  | 2592.99                  | 2659.98                | (dBm)               | (dB)     |  |
| 60                                | PI/2 BPSK  | 1       | 1         | 23.97                 | 24.24                    | 24.23                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 503204                | 518598                   | 532993                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2521.02               | 2592.99                  | 2664.99                | (dBm)               | (dB)     |  |
| 50                                | PI/2 BPSK  | 1       | 1         | 24.15                 | 24.29                    | 24.19                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2516.01               | 2592.99                  | 2670                   | (dBm)               | (dB)     |  |
| 40                                | PI/2 BPSK  | 1       | 1         | 24.17                 | 24.27                    | 24.27                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 502200                | 518598                   | 534998                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2511                  | 2592.99                  | 2674.98                | (dBm)               | (dB)     |  |
| 30                                | PI/2 BPSK  | 1       | 1         | 24.18                 | 24.28                    | 24.27                  | 25.5                | 0.0      |  |
| Channel                           |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit       | MPR      |  |
| Frequency (MHz)                   |            |         |           | 2506.02               | 2592.99                  | 2679.99                | (dBm)               | (dB)     |  |
| 20                                | PI/2 BPSK  | 1       | 1         | 24.02                 | 24.31                    | 24.22                  | 25.5                | 0.0      |  |

## Ant 2 n7 SA/NSA Down power / DSI 3/5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 502000                | 507000                   | 512000                 |                     |          |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 18.54                 | 18.51                    | 18.53                  | 19.2                | 0.0      |
| 20              | PI/2 BPSK  | 1       | 53        | 18.65                 | 18.55                    | 18.64                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 18.63                 | 18.56                    | 18.65                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 18.59                 | 18.52                    | 18.55                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 28        | 18.67                 | 18.58                    | 18.68                  | 19.2                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 56        | 18.56                 | 18.55                    | 18.56                  |                     |          |
| 20              | PI/2 BPSK  | 100     | 0         | 18.66                 | 18.57                    | 18.64                  | 19.2                | 0.0      |
| 20              | QPSK       | 1       | 1         | 18.49                 | 18.75                    | 18.54                  |                     |          |
| 20              | QPSK       | 1       | 53        | 18.64                 | 18.62                    | 18.65                  |                     |          |
| 20              | QPSK       | 1       | 104       | 18.71                 | 18.66                    | 18.71                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.59                 | 18.53                    | 18.56                  | 19.2                | 0.0      |
| 20              | QPSK       | 50      | 28        | 18.56                 | 18.66                    | 18.63                  | 19.2                | 0.0      |
| 20              | QPSK       | 50      | 56        | 18.66                 | 18.61                    | 18.63                  | 19.2                | 0.0      |
| 20              | QPSK       | 100     | 0         | 18.64                 | 18.55                    | 18.56                  | 19.2                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 18.70                 | 18.67                    | 18.64                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 18.11                 | 18.05                    | 18.13                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 16.02                 | 15.99                    | 16.05                  |                     |          |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |
| 15              | PI/2 BPSK  | 1       | 1         | 18.55                 | 18.69                    | 18.54                  | 19.2                | 0.0      |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |
| 10              | PI/2 BPSK  | 1       | 1         | 18.54                 | 18.68                    | 18.60                  | 19.2                | 0.0      |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |
| 5               | PI/2 BPSK  | 1       | 1         | 18.50                 | 18.63                    | 18.61                  | 19.2                | 0.0      |

## Ant 2 n41 SA Down power / DSI 3/5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 508202                   | 518598                      | 535200                    |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 17.98                    | 18.07                       | 17.97                     | 19.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       | 18.04                    | 18.06                       | 18.06                     |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 18.01                    | 18.02                       | 18.00                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 18.05                    | 18.09                       | 18.06                     | 19.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        | 17.98                    | 18.06                       | 17.96                     |                        |             |
| 100             | PI/2 BPSK  | 135     | 138       | 18.04                    | 18.08                       | 18.06                     |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 18.00                    | 18.10                       | 18.09                     | 19.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 17.89                    | 18.19                       | 18.00                     | 19.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 18.11                    | 18.15                       | 18.12                     |                        |             |
| 100             | QPSK       | 1       | 271       | 17.86                    | 17.96                       | 17.84                     |                        |             |
| 100             | QPSK       | 135     | 0         | 18.07                    | 18.15                       | 18.13                     | 19.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 18.13                    | 18.17                       | 18.14                     |                        |             |
| 100             | QPSK       | 135     | 138       | 18.02                    | 18.02                       | 18.00                     |                        |             |
| 100             | QPSK       | 270     | 0         | 18.09                    | 18.12                       | 18.10                     | 19.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.84                    | 17.88                       | 17.80                     | 19.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 17.81                    | 17.87                       | 17.83                     | 19.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.91                    | 17.93                       | 17.89                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518598                      | 528996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2641                     | 2692.99                     | 2644.98                   |                        |             |
| 90              | PI/2 BPSK  | 1       | 1         | 17.89                    | 17.99                       | 17.87                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 507204                   | 518598                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2649.99                   |                        |             |
| 80              | PI/2 BPSK  | 1       | 1         | 17.92                    | 18.03                       | 17.92                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 505200                   | 518598                      | 531996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |
| 60              | PI/2 BPSK  | 1       | 1         | 17.89                    | 18.03                       | 17.95                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 504204                   | 518598                      | 532998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   |                        |             |
| 50              | PI/2 BPSK  | 1       | 1         | 17.89                    | 18.04                       | 17.89                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 503202                   | 518598                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 17.97                    | 18.05                       | 17.83                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 502200                   | 518598                      | 534998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |
| 30              | PI/2 BPSK  | 1       | 1         | 17.95                    | 18.05                       | 17.87                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 501204                   | 518598                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 17.98                    | 18.04                       | 17.87                     | 19.5                   | 0.0         |

| Ant 3 n7 NSA/SA Full Power |            |         |           |                             |                                |                              |                        |             |
|----------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                   | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                    |            |         |           | 502000                      | 507000                         | 512000                       | 25.5                   | 0.0         |
| Frequency (MHz)            |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20                         | PI/2 BPSK  | 1       | 1         | 25.09                       | 25.07                          | 25.06                        |                        |             |
| 20                         | PI/2 BPSK  | 1       | 53        | 25.07                       | 25.05                          | 25.01                        |                        |             |
| 20                         | PI/2 BPSK  | 1       | 104       | 25.08                       | 25.14                          | 25.18                        | 25.0                   | 0.5         |
| 20                         | PI/2 BPSK  | 50      | 0         | 24.45                       | 24.52                          | 24.49                        |                        |             |
| 20                         | PI/2 BPSK  | 50      | 28        | 25.15                       | 25.12                          | 25.15                        |                        |             |
| 20                         | PI/2 BPSK  | 50      | 56        | 24.49                       | 24.52                          | 24.51                        |                        |             |
| 20                         | PI/2 BPSK  | 100     | 0         | 24.57                       | 24.53                          | 24.49                        | 25.0                   | 0.5         |
| 20                         | QPSK       | 1       | 1         | 24.96                       | 25.22                          | 25.01                        | 25.5                   | 0.0         |
| 20                         | QPSK       | 1       | 53        | 25.12                       | 25.13                          | 25.16                        |                        |             |
| 20                         | QPSK       | 1       | 104       | 25.05                       | 25.12                          | 25.11                        |                        |             |
| 20                         | QPSK       | 50      | 0         | 23.94                       | 24.01                          | 24.08                        | 24.5                   | 1.0         |
| 20                         | QPSK       | 50      | 28        | 25.12                       | 25.15                          | 25.03                        | 25.5                   | 0.0         |
| 20                         | QPSK       | 50      | 56        | 24.13                       | 24.04                          | 24.00                        | 24.5                   | 1.0         |
| 20                         | QPSK       | 100     | 0         | 24.11                       | 24.01                          | 23.98                        |                        |             |
| 20                         | 16QAM      | 1       | 1         | 23.97                       | 23.91                          | 23.88                        | 24.5                   | 1.0         |
| 20                         | 64QAM      | 1       | 1         | 22.35                       | 22.43                          | 22.46                        | 23.0                   | 2.5         |
| 20                         | 256QAM     | 1       | 1         | 20.68                       | 20.63                          | 20.65                        | 21.0                   | 4.5         |
| Channel                    |            |         |           | 501500                      | 507000                         | 512500                       | 25.5                   | 0.0         |
| Frequency (MHz)            |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15                         | PI/2 BPSK  | 1       | 1         | 24.95                       | 24.98                          | 25.08                        |                        |             |
| Channel                    |            |         |           | 501000                      | 507000                         | 513000                       |                        |             |
| Frequency (MHz)            |            |         |           | 2505                        | 2535                           | 2565                         | 25.5                   | 0.0         |
| 10                         | PI/2 BPSK  | 1       | 1         | 24.96                       | 25.05                          | 25.03                        |                        |             |
| Channel                    |            |         |           | 500500                      | 507000                         | 513500                       |                        |             |
| Frequency (MHz)            |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5                          | PI/2 BPSK  | 1       | 1         | 24.85                       | 25.06                          | 24.99                        | 25.5                   | 0.0         |



| Ant 3 n41 SA Full Power |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 80592                 | 51898                    | 53000                  | 25.5                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 2560.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 24.71                 | 24.77                    | 24.87                  | 25.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       | 24.84                 | 25.11                    | 24.72                  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 24.95                 | 25.03                    | 24.87                  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 24.25                 | 24.45                    | 24.34                  | 25.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 24.95                 | 25.03                    | 24.81                  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       | 24.27                 | 24.51                    | 24.34                  |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 24.31                 | 24.41                    | 24.03                  | 25.0                | 0.5      |  |
| 100                     | QPSK       | 1       | 1         | 24.89                 | 25.13                    | 24.77                  |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 24.91                 | 25.10                    | 24.82                  |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 24.86                 | 25.10                    | 24.91                  | 25.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 23.82                 | 23.87                    | 23.79                  |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 24.89                 | 25.01                    | 24.85                  |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 23.85                 | 23.97                    | 23.82                  | 24.5                | 1.0      |  |
| 100                     | QPSK       | 270     | 0         | 23.84                 | 23.90                    | 23.52                  |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 22.95                 | 23.08                    | 23.00                  |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 21.49                 | 21.65                    | 21.29                  | 23.0                | 2.5      |  |
| 100                     | 16QAM      | 135     | 0         | 23.82                 | 23.87                    | 23.79                  |                     |          |  |
| 100                     | 256QAM     | 1       | 1         | 19.92                 | 20.10                    | 19.81                  |                     |          |  |
| Channel                 |            |         |           | 506200                | 518998                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2541                  | 2592.99                  | 2644.98                | 25.5                | 0.0      |  |
| 90                      | PI2 BPSK   | 1       | 1         | 24.91                 | 24.98                    | 24.83                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 507234                | 519005                   | 529003                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 2536.02               | 2592.99                  | 2643.99                | 25.5                | 0.0      |  |
| 80                      | PI2 BPSK   | 1       | 1         | 24.80                 | 25.07                    | 24.89                  |                     |          |  |
| Channel                 |            |         |           | 505200                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2526                  | 2592.99                  | 2659.98                | 25.5                | 0.0      |  |
| 60                      | PI2 BPSK   | 1       | 1         | 24.74                 | 24.80                    | 24.66                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 504204                | 518998                   | 532998                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 2521.02               | 2592.99                  | 2664.99                | 25.5                | 0.0      |  |
| 50                      | PI2 BPSK   | 1       | 1         | 24.92                 | 25.02                    | 24.88                  |                     |          |  |
| Channel                 |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2516.01               | 2592.99                  | 2670                   | 25.5                | 0.0      |  |
| 40                      | PI2 BPSK   | 1       | 1         | 24.84                 | 25.11                    | 24.70                  | 25.5                | 0.0      |  |
| Channel                 |            |         |           | 502200                | 518998                   | 534999                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 2511                  | 2592.99                  | 2674.98                | 25.5                | 0.0      |  |
| 30                      | PI2 BPSK   | 1       | 1         | 24.90                 | 25.02                    | 24.82                  |                     |          |  |
| Channel                 |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 25.5                | 0.0      |  |
| 20                      | PI2 BPSK   | 1       | 1         | 24.83                 | 25.06                    | 24.68                  |                     |          |  |

| Ant3 n77 PC3 SA Full Power |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                    |            |         |           | 656000                | 66000                    | 662000                 | 24.1                | 0.0      |  |
| Frequency (MHz)            |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                        | PI2 BPSK   | 1       | 1         | 22.51                 | 22.52                    | 22.49                  | 24.1                | 0.0      |  |
| 100                        | PI2 BPSK   | 1       | 137       | 22.42                 | 22.41                    | 22.18                  |                     |          |  |
| 100                        | PI2 BPSK   | 1       | 271       | 22.27                 | 22.33                    | 22.41                  |                     |          |  |
| 100                        | PI2 BPSK   | 135     | 0         | 21.66                 | 21.74                    | 21.78                  | 24.1                | 0.0      |  |
| 100                        | PI2 BPSK   | 135     | 69        | 22.21                 | 22.24                    | 22.12                  |                     |          |  |
| 100                        | PI2 BPSK   | 135     | 138       | 21.57                 | 21.58                    | 21.58                  |                     |          |  |
| 100                        | PI2 BPSK   | 270     | 0         | 21.71                 | 21.73                    | 21.72                  | 23.6                | 0.5      |  |
| 100                        | QPSK       | 1       | 1         | 22.39                 | 22.58                    | 22.29                  |                     |          |  |
| 100                        | QPSK       | 1       | 137       | 22.34                 | 22.39                    | 22.39                  |                     |          |  |
| 100                        | QPSK       | 1       | 271       | 22.47                 | 22.37                    | 22.52                  | 24.1                | 0.0      |  |
| 100                        | QPSK       | 135     | 0         | 21.06                 | 21.22                    | 21.30                  |                     |          |  |
| 100                        | QPSK       | 135     | 69        | 22.22                 | 22.25                    | 22.11                  |                     |          |  |
| 100                        | QPSK       | 135     | 138       | 21.24                 | 21.13                    | 21.16                  | 23.1                | 1.0      |  |
| 100                        | QPSK       | 270     | 0         | 21.08                 | 21.33                    | 21.26                  |                     |          |  |
| 100                        | 16QAM      | 1       | 1         | 21.49                 | 21.44                    | 21.40                  |                     |          |  |
| 100                        | 16QAM      | 1       | 1         | 19.89                 | 19.77                    | 19.72                  | 21.6                | 2.5      |  |
| 100                        | 256QAM     | 1       | 1         | 17.33                 | 17.45                    | 17.49                  |                     |          |  |
| Channel                    |            |         |           | 649668                | 656000                   | 662334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3745.02               | 3840                     | 3935.01                | 24.1                | 0.0      |  |
| 90                         | PI2 BPSK   | 1       | 1         | 22.33                 | 22.44                    | 22.28                  | 24.1                | 0.0      |  |
| Channel                    |            |         |           | 648334                | 656000                   | 662568                 |                     |          |  |
| Frequency (MHz)            |            |         |           | 3740.01               | 3840                     | 3940.02                | 24.1                | 0.0      |  |
| 80                         | PI2 BPSK   | 1       | 1         | 22.49                 | 22.40                    | 22.38                  |                     |          |  |
| Channel                    |            |         |           | 648000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3735                  | 3840                     | 3945                   | 24.1                | 0.0      |  |
| 70                         | PI2 BPSK   | 1       | 1         | 22.44                 | 22.47                    | 22.17                  |                     |          |  |
| Channel                    |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3730.02               | 3840                     | 3950.01                | 24.1                | 0.0      |  |
| 60                         | PI2 BPSK   | 1       | 1         | 22.47                 | 22.44                    | 22.28                  |                     |          |  |
| Channel                    |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3725.01               | 3840                     | 3955.02                | 24.1                | 0.0      |  |
| 50                         | PI2 BPSK   | 1       | 1         | 22.26                 | 22.52                    | 22.29                  |                     |          |  |
| Channel                    |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3720                  | 3840                     | 3960                   | 24.1                | 0.0      |  |
| 40                         | PI2 BPSK   | 1       | 1         | 22.26                 | 22.44                    | 22.18                  |                     |          |  |
| Channel                    |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3716.02               | 3840                     | 3965.01                | 24.1                | 0.0      |  |
| 30                         | PI2 BPSK   | 1       | 1         | 22.37                 | 22.49                    | 22.32                  |                     |          |  |
| Channel                    |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)            |            |         |           | 3710.01               | 3840                     | 3970.02                | 24.1                | 0.0      |  |
| 20                         | PI2 BPSK   | 1       | 1         | 22.27                 | 22.49                    | 22.33                  |                     |          |  |

| Ant 3 n77 HPUE SA Full Power |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 656000                | 656000                   | 662000                 | 25.6                | 0.0      |  |
| Frequency (MHz)              |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                          | PI2 BPSK   | 1       | 1         | 24.10                 | 24.08                    | 24.03                  | 25.6                | 0.0      |  |
| 100                          | PI2 BPSK   | 1       | 137       | 23.99                 | 23.93                    | 23.76                  |                     |          |  |
| 100                          | PI2 BPSK   | 1       | 271       | 23.82                 | 23.83                    | 23.94                  |                     |          |  |
| 100                          | PI2 BPSK   | 135     | 0         | 23.17                 | 23.30                    | 23.32                  | 25.6                | 0.0      |  |
| 100                          | PI2 BPSK   | 135     | 69        | 23.77                 | 23.78                    | 23.70                  |                     |          |  |
| 100                          | PI2 BPSK   | 135     | 138       | 23.09                 | 23.16                    | 23.11                  |                     |          |  |
| 100                          | PI2 BPSK   | 270     | 0         | 23.21                 | 23.26                    | 23.26                  | 25.1                | 0.5      |  |
| 100                          | QPSK       | 1       | 1         | 23.95                 | 24.12                    | 23.87                  |                     |          |  |
| 100                          | QPSK       | 1       | 137       | 23.86                 | 23.84                    | 23.89                  |                     |          |  |
| 100                          | QPSK       | 1       | 271       | 23.97                 | 23.88                    | 24.08                  | 25.6                | 0.0      |  |
| 100                          | QPSK       | 135     | 0         | 22.62                 | 22.79                    | 22.84                  |                     |          |  |
| 100                          | QPSK       | 135     | 69        | 23.74                 | 23.77                    | 23.69                  |                     |          |  |
| 100                          | QPSK       | 135     | 138       | 22.74                 | 22.63                    | 22.69                  | 24.6                | 1.0      |  |
| 100                          | QPSK       | 270     | 0         | 22.64                 | 22.89                    | 22.80                  |                     |          |  |
| 100                          | 16QAM      | 1       | 1         | 23.01                 | 22.96                    | 22.86                  |                     |          |  |
| 100                          | 64QAM      | 1       | 1         | 21.20                 | 21.33                    | 21.26                  | 23.1                | 2.5      |  |
| 100                          | 256QAM     | 1       | 1         | 18.80                 | 18.97                    | 19.07                  |                     |          |  |
| Channel                      |            |         |           | 649668                | 656000                   | 662334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 3745.02               | 3840                     | 3935.01                | 25.6                | 0.0      |  |
| 90                           | PI2 BPSK   | 1       | 1         | 23.90                 | 24.16                    | 23.86                  | 25.6                | 0.0      |  |
| Channel                      |            |         |           | 648334                | 656000                   | 662568                 |                     |          |  |
| Frequency (MHz)              |            |         |           | 3740.01               | 3840                     | 3940.02                | 25.6                | 0.0      |  |
| 80                           | PI2 BPSK   | 1       | 1         | 24.06                 | 24.12                    | 23.96                  |                     |          |  |
| Channel                      |            |         |           | 648000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 3735                  | 3840                     | 3945                   | 25.6                | 0.0      |  |
| 70                           | PI2 BPSK   | 1       | 1         | 24.01                 | 23.99                    | 23.75                  | 25.6                | 0.0      |  |
| Channel                      |            |         |           | 647668                | 656000                   | 663334                 |                     |          |  |
| Frequency (MHz)              |            |         |           | 3730.02               | 3840                     | 3940.01                | 25.6                | 0.0      |  |
| 60                           | PI2 BPSK   | 1       | 1         | 24.04                 | 24.16                    | 23.86                  |                     |          |  |
| Channel                      |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 3725.01               | 3840                     | 3950.02                | 25.6                | 0.0      |  |
| 50                           | PI2 BPSK   | 1       | 1         | 23.83                 | 24.04                    | 23.86                  | 25.6                | 0.0      |  |
| Channel                      |            |         |           | 648000                | 656000                   | 664000                 |                     |          |  |
| Frequency (MHz)              |            |         |           | 3720                  | 3840                     | 3960                   | 25.6                | 0.0      |  |
| 40                           | PI2 BPSK   | 1       | 1         | 23.83                 | 23.96                    | 23.76                  |                     |          |  |
| Channel                      |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 3715.02               | 3840                     | 3965.01                | 25.6                | 0.0      |  |
| 30                           | PI2 BPSK   | 1       | 1         | 23.94                 | 24.01                    | 23.90                  | 25.6                | 0.0      |  |
| Channel                      |            |         |           | 647334                | 656000                   | 664668                 |                     |          |  |
| Frequency (MHz)              |            |         |           | 3710.01               | 3840                     | 3970.02                | 25.6                | 0.0      |  |
| 20                           | PI2 BPSK   | 1       | 1         | 23.84                 | 24.11                    | 23.91                  |                     |          |  |

| Ant 3 n7 NSA/SA Down power / DSI 1/5 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                              |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                                   | PI/2 BPSK  | 1       | 1         | 15.96                 | 15.97                    | 15.91                  | 16.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 1       | 53        | 15.84                 | 15.88                    | 15.86                  |                     |          |  |
| 20                                   | PI/2 BPSK  | 1       | 104       | 15.83                 | 15.92                    | 15.86                  | 16.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 50      | 0         | 15.85                 | 15.86                    | 15.86                  |                     |          |  |
| 20                                   | PI/2 BPSK  | 50      | 28        | 15.79                 | 15.86                    | 15.80                  | 16.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 50      | 56        | 15.81                 | 15.88                    | 15.82                  | 16.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 100     | 0         | 15.80                 | 15.84                    | 15.82                  |                     |          |  |
| 20                                   | QPSK       | 1       | 1         | 15.98                 | 16.10                    | 16.02                  | 16.5                | 0.0      |  |
| 20                                   | QPSK       | 1       | 53        | 16.00                 | 16.05                    | 16.02                  |                     |          |  |
| 20                                   | QPSK       | 1       | 104       | 15.93                 | 16.01                    | 15.92                  | 16.5                | 0.0      |  |
| 20                                   | QPSK       | 50      | 0         | 15.74                 | 15.74                    | 15.71                  |                     |          |  |
| 20                                   | QPSK       | 50      | 28        | 15.67                 | 15.75                    | 15.67                  | 16.5                | 0.0      |  |
| 20                                   | QPSK       | 50      | 56        | 15.74                 | 15.71                    | 15.71                  | 16.5                | 0.0      |  |
| 20                                   | QPSK       | 100     | 0         | 15.67                 | 15.76                    | 15.72                  |                     |          |  |
| 20                                   | 16QAM      | 1       | 1         | 15.94                 | 15.95                    | 15.88                  | 16.5                | 0.0      |  |
| 20                                   | 64QAM      | 1       | 1         | 15.52                 | 15.56                    | 15.56                  | 16.5                | 0.0      |  |
| 20                                   | 256QAM     | 1       | 1         | 15.71                 | 15.73                    | 15.73                  | 16.5                | 0.0      |  |
| Channel                              |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2507.5                | 2535                     | 2562.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                                   | PI/2 BPSK  | 1       | 1         | 15.91                 | 15.92                    | 15.89                  |                     | 0.0      |  |
| Channel                              |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2505                  | 2535                     | 2565                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10                                   | PI/2 BPSK  | 1       | 1         | 15.88                 | 15.94                    | 15.83                  |                     | 0.0      |  |
| Channel                              |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2502.5                | 2535                     | 2567.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                                    | PI/2 BPSK  | 1       | 1         | 15.86                 | 15.88                    | 15.84                  |                     | 0.0      |  |

| Ant 3 n7 SA/NSA Down power / DSI 3/4 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                              |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                                   | PI/2 BPSK  | 1       | 1         | 17.87                 | 17.96                    | 17.96                  | 18.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 1       | 53        | 17.95                 | 18.00                    | 17.96                  |                     |          |  |
| 20                                   | PI/2 BPSK  | 1       | 104       | 18.01                 | 18.07                    | 17.99                  | 18.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 50      | 0         | 17.90                 | 17.95                    | 17.94                  |                     |          |  |
| 20                                   | PI/2 BPSK  | 50      | 28        | 18.00                 | 18.08                    | 18.02                  | 18.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 50      | 56        | 17.98                 | 18.04                    | 17.99                  | 18.5                | 0.0      |  |
| 20                                   | PI/2 BPSK  | 100     | 0         | 17.94                 | 17.99                    | 17.93                  |                     |          |  |
| 20                                   | QPSK       | 1       | 1         | 18.00                 | 18.13                    | 18.05                  | 18.5                | 0.0      |  |
| 20                                   | QPSK       | 1       | 53        | 18.01                 | 18.09                    | 18.00                  |                     |          |  |
| 20                                   | QPSK       | 1       | 104       | 18.10                 | 18.10                    | 18.05                  | 18.5                | 0.0      |  |
| 20                                   | QPSK       | 50      | 0         | 17.88                 | 17.93                    | 17.93                  |                     |          |  |
| 20                                   | QPSK       | 50      | 28        | 17.98                 | 18.05                    | 17.96                  | 18.5                | 0.0      |  |
| 20                                   | QPSK       | 50      | 56        | 17.98                 | 18.04                    | 18.00                  | 18.5                | 0.0      |  |
| 20                                   | QPSK       | 100     | 0         | 17.91                 | 17.97                    | 17.97                  |                     |          |  |
| 20                                   | 16QAM      | 1       | 1         | 17.89                 | 17.94                    | 17.86                  | 18.5                | 0.0      |  |
| 20                                   | 64QAM      | 1       | 1         | 17.82                 | 17.70                    | 17.83                  | 18.5                | 0.0      |  |
| 20                                   | 256QAM     | 1       | 1         | 17.83                 | 17.81                    | 17.85                  | 18.5                | 0.0      |  |
| Channel                              |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2507.5                | 2535                     | 2562.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                                   | PI/2 BPSK  | 1       | 1         | 17.66                 | 17.73                    | 17.73                  |                     | 0.0      |  |
| Channel                              |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2505                  | 2535                     | 2565                   | Tune-up limit (dBm) | MPR (dB) |  |
| 10                                   | PI/2 BPSK  | 1       | 1         | 17.63                 | 17.72                    | 17.69                  |                     | 0.0      |  |
| Channel                              |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                      |            |         |           | 2502.5                | 2535                     | 2567.5                 | Tune-up limit (dBm) | MPR (dB) |  |
| 5                                    | PI/2 BPSK  | 1       | 1         | 17.61                 | 17.68                    | 17.70                  |                     | 0.0      |  |



| Ant 3 n41 SA Down power / DSI 1/5 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 5050.02               | 5189.98                  | 5300.00                | 17.5                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 2545.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                               | PI2 BPSK   | 1       | 1         | 16.64                 | 16.65                    | 16.66                  | 17.5                | 0.0      |  |
| 100                               | PI2 BPSK   | 1       | 137       | 16.87                 | 16.93                    | 16.93                  |                     |          |  |
| 100                               | PI2 BPSK   | 1       | 271       | 16.75                 | 16.76                    | 16.68                  |                     |          |  |
| 100                               | PI2 BPSK   | 135     | 0         | 16.91                 | 16.83                    | 16.83                  |                     |          |  |
| 100                               | PI2 BPSK   | 135     | 69        | 16.77                 | 16.84                    | 16.81                  | 17.5                | 0.0      |  |
| 100                               | PI2 BPSK   | 135     | 138       | 16.76                 | 16.85                    | 16.78                  |                     |          |  |
| 100                               | PI2 BPSK   | 270     | 0         | 16.74                 | 16.83                    | 16.81                  |                     |          |  |
| 100                               | QPSK       | 1       | 1         | 16.99                 | 17.06                    | 16.90                  |                     |          |  |
| 100                               | QPSK       | 1       | 137       | 16.86                 | 16.91                    | 16.94                  | 17.5                | 0.0      |  |
| 100                               | QPSK       | 1       | 271       | 16.80                 | 16.90                    | 16.96                  |                     |          |  |
| 100                               | QPSK       | 135     | 0         | 16.83                 | 16.85                    | 16.76                  |                     |          |  |
| 100                               | QPSK       | 135     | 69        | 16.80                 | 16.95                    | 16.83                  |                     |          |  |
| 100                               | QPSK       | 135     | 138       | 16.86                 | 16.88                    | 16.79                  | 17.5                | 0.0      |  |
| 100                               | QPSK       | 270     | 0         | 16.79                 | 16.87                    | 16.83                  |                     |          |  |
| 100                               | 16QAM      | 1       | 1         | 16.69                 | 16.71                    | 16.82                  |                     |          |  |
| 100                               | 64QAM      | 1       | 1         | 16.38                 | 16.47                    | 16.46                  |                     |          |  |
| 100                               | 256QAM     | 1       | 1         | 16.42                 | 16.48                    | 16.42                  | 17.5                | 0.0      |  |
| Channel                           |            |         |           | 506200                | 518998                   | 528996                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2541                  | 2592.99                  | 2644.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                                | PI2 BPSK   | 1       | 1         | 16.56                 | 16.58                    | 16.53                  | 17.5                | 0.0      |  |
| Channel                           |            |         |           | 507204                | 518995                   | 529998                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2536.02               | 2592.99                  | 2643.99                | 17.5                | 0.0      |  |
| 80                                | PI2 BPSK   | 1       | 1         | 16.60                 | 16.60                    | 16.47                  |                     |          |  |
| Channel                           |            |         |           | 505030                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |  |
| 60                                | PI2 BPSK   | 1       | 1         | 16.61                 | 16.64                    | 16.56                  | 17.5                | 0.0      |  |
| Channel                           |            |         |           | 504204                | 518998                   | 532998                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2521.02               | 2592.99                  | 2664.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                                | PI2 BPSK   | 1       | 1         | 16.59                 | 16.56                    | 16.51                  |                     |          |  |
| Channel                           |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40                                | PI2 BPSK   | 1       | 1         | 16.59                 | 16.63                    | 16.46                  | 17.5                | 0.0      |  |
| Channel                           |            |         |           | 502200                | 518998                   | 534996                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2511                  | 2592.99                  | 2674.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 30                                | PI2 BPSK   | 1       | 1         | 16.62                 | 16.56                    | 16.48                  |                     |          |  |
| Channel                           |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2496.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20                                | PI2 BPSK   | 1       | 1         | 16.50                 | 16.64                    | 16.52                  | 17.5                | 0.0      |  |

| Ant 3 n41 SA Down power / DSI 3/4 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 506202                | 518998                   | 530000                 | 19.5                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                               | PI2 BPSK   | 1       | 1         | 16.66                 | 16.73                    | 16.67                  | 19.5                | 0.0      |  |
| 100                               | PI2 BPSK   | 1       | 137       | 16.91                 | 16.97                    | 16.97                  |                     |          |  |
| 100                               | PI2 BPSK   | 1       | 271       | 16.91                 | 16.92                    | 16.88                  |                     |          |  |
| 100                               | PI2 BPSK   | 135     | 0         | 16.89                 | 16.93                    | 16.95                  |                     |          |  |
| 100                               | PI2 BPSK   | 135     | 69        | 16.90                 | 16.94                    | 16.92                  | 19.5                | 0.0      |  |
| 100                               | PI2 BPSK   | 135     | 138       | 16.90                 | 16.97                    | 16.92                  |                     |          |  |
| 100                               | PI2 BPSK   | 270     | 0         | 16.90                 | 16.91                    | 16.90                  |                     |          |  |
| 100                               | QPSK       | 1       | 1         | 19.03                 | 19.07                    | 18.90                  |                     |          |  |
| 100                               | QPSK       | 1       | 137       | 16.97                 | 16.93                    | 16.95                  | 19.5                | 0.0      |  |
| 100                               | QPSK       | 1       | 271       | 16.96                 | 16.96                    | 16.92                  |                     |          |  |
| 100                               | QPSK       | 135     | 0         | 16.86                 | 16.95                    | 16.85                  |                     |          |  |
| 100                               | QPSK       | 135     | 69        | 16.90                 | 16.93                    | 16.86                  |                     |          |  |
| 100                               | QPSK       | 135     | 138       | 16.96                 | 16.92                    | 16.96                  | 19.5                | 0.0      |  |
| 100                               | QPSK       | 270     | 0         | 16.84                 | 16.90                    | 16.88                  |                     |          |  |
| 100                               | 16QAM      | 1       | 1         | 16.80                 | 16.81                    | 16.76                  |                     |          |  |
| 100                               | 64QAM      | 1       | 1         | 16.50                 | 16.58                    | 16.55                  |                     |          |  |
| 100                               | 256QAM     | 1       | 1         | 16.46                 | 16.52                    | 16.49                  | 19.5                | 0.0      |  |
| Channel                           |            |         |           | 506200                | 518998                   | 528996                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2541                  | 2592.99                  | 2644.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                                | PI2 BPSK   | 1       | 1         | 16.57                 | 16.67                    | 16.61                  | 19.5                | 0.0      |  |
| Channel                           |            |         |           | 507204                | 518995                   | 529998                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2536.02               | 2592.99                  | 2643.99                | 19.5                | 0.0      |  |
| 80                                | PI2 BPSK   | 1       | 1         | 16.58                 | 16.68                    | 16.57                  |                     |          |  |
| Channel                           |            |         |           | 505020                | 518998                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |  |
| 60                                | PI2 BPSK   | 1       | 1         | 16.57                 | 16.68                    | 16.60                  | 19.5                | 0.0      |  |
| Channel                           |            |         |           | 504204                | 518998                   | 532998                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2521.02               | 2592.99                  | 2664.99                | Tune-up limit (dBm) | MPR (dB) |  |
| 50                                | PI2 BPSK   | 1       | 1         | 16.61                 | 16.68                    | 16.60                  |                     |          |  |
| Channel                           |            |         |           | 503202                | 518998                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |  |
| 40                                | PI2 BPSK   | 1       | 1         | 16.65                 | 16.70                    | 16.60                  | 19.5                | 0.0      |  |
| Channel                           |            |         |           | 502200                | 518998                   | 534996                 |                     |          |  |
| Frequency (MHz)                   |            |         |           | 2511                  | 2592.99                  | 2674.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 30                                | PI2 BPSK   | 1       | 1         | 16.64                 | 16.72                    | 16.59                  |                     |          |  |
| Channel                           |            |         |           | 501204                | 518998                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                   |            |         |           | 2496.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20                                | PI2 BPSK   | 1       | 1         | 16.60                 | 16.70                    | 16.60                  | 19.5                | 0.0      |  |

| Ant 3 PC3/HPUE n77 SA Down power / DSI 1/5 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                                    |            |         |           | 650000                | 656000                   | 662000                 | 19.6                | 0.0      |  |
| Frequency (MHz)                            |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                                        | PI2 BPSK   | 1       | 1         | 18.24                 | 18.27                    | 18.27                  | 19.6                | 0.0      |  |
| 100                                        | PI2 BPSK   | 1       | 137       | 18.09                 | 18.11                    | 18.05                  |                     |          |  |
| 100                                        | PI2 BPSK   | 1       | 271       | 18.05                 | 18.10                    | 18.03                  |                     |          |  |
| 100                                        | PI2 BPSK   | 135     | 0         | 18.09                 | 18.12                    | 18.10                  |                     |          |  |
| 100                                        | PI2 BPSK   | 135     | 69        | 18.08                 | 18.11                    | 18.08                  | 19.6                | 0.0      |  |
| 100                                        | PI2 BPSK   | 135     | 138       | 18.09                 | 18.13                    | 18.05                  |                     |          |  |
| 100                                        | PI2 BPSK   | 270     | 0         | 18.13                 | 18.21                    | 18.19                  |                     |          |  |
| 100                                        | QPSK       | 1       | 1         | 18.10                 | 18.28                    | 18.21                  |                     |          |  |
| 100                                        | QPSK       | 1       | 137       | 18.06                 | 18.14                    | 18.08                  | 19.6                | 0.0      |  |
| 100                                        | QPSK       | 1       | 271       | 17.95                 | 18.04                    | 18.01                  |                     |          |  |
| 100                                        | QPSK       | 135     | 0         | 18.02                 | 18.09                    | 18.02                  |                     |          |  |
| 100                                        | QPSK       | 135     | 69        | 17.97                 | 18.10                    | 17.98                  |                     |          |  |
| 100                                        | QPSK       | 135     | 138       | 17.96                 | 17.96                    | 17.89                  | 19.6                | 0.0      |  |
| 100                                        | QPSK       | 270     | 0         | 17.95                 | 18.04                    | 17.97                  |                     |          |  |
| 100                                        | 16QAM      | 1       | 1         | 18.18                 | 18.25                    | 18.16                  |                     |          |  |
| 100                                        | 64QAM      | 1       | 1         | 18.07                 | 18.14                    | 18.08                  |                     |          |  |
| 100                                        | 256QAM     | 1       | 1         | 18.19                 | 18.19                    | 18.11                  | 19.6                | 0.0      |  |
| Channel                                    |            |         |           | 646668                | 656000                   | 662334                 |                     |          |  |
| Frequency (MHz)                            |            |         |           | 3745.02               | 3840                     | 3935.01                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                                         | PI2 BPSK   | 1       | 1         | 18.00                 | 18.05                    | 17.99                  | 19.6                | 0.0      |  |
| Channel                                    |            |         |           | 643334                | 656000                   | 662334                 |                     |          |  |
| Frequency (MHz)                            |            |         |           | 3740.01               | 3840                     | 3940.02                | Tune-up limit (dBm) | MPR (dB) |  |
| 80                                         | PI2 BPSK   | 1       | 1         | 18.02                 | 17.99                    | 17.97                  |                     |          |  |
| Channel                                    |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                            |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                                         | PI2 BPSK   | 1       | 1         | 17.96                 | 18.00                    | 17.99                  | 19.6                | 0.0      |  |
| Channel                                    |            |         |           | 645668                | 656000                   | 663334                 |                     |          |  |
| Frequency (MHz)                            |            |         |           | 3730.02               | 3840                     | 3950.01                | Tune-up limit (dBm) | MPR (dB) |  |
| 60                                         | PI2 BPSK   | 1       | 1         | 18.03                 | 18.03                    | 18.05                  |                     |          |  |
| Channel                                    |            |         |           | 643334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                            |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                                         | PI2 BPSK   | 1       | 1         | 18.03                 | 18.01                    | 17.98                  | 19.6                | 0.0      |  |
| Channel                                    |            |         |           | 646000                | 656000                   | 663000                 |                     |          |  |
| Frequency (MHz)                            |            |         |           | 3720                  | 3840                     | 3950                   | Tune-up limit (dBm) | MPR (dB) |  |
| 40                                         | PI2 BPSK   | 1       | 1         | 17.98                 | 17.99                    | 17.99                  |                     |          |  |
| Channel                                    |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                            |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                                         | PI2 BPSK   | 1       | 1         | 18.01                 | 18.11                    | 18.21                  | 19.6                | 0.0      |  |
| Channel                                    |            |         |           | 643334                | 656000                   | 663668                 |                     |          |  |
| Frequency (MHz)                            |            |         |           | 3710.01               | 3840                     | 3970.02                | Tune-up limit (dBm) | MPR (dB) |  |
| 20                                         | PI2 BPSK   | 1       | 1         | 18.05                 | 18.08                    | 18.01                  |                     |          |  |

## Ant 3 PC3/HPUE n77 SA Down power / DSI 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           | 650000              | 660000                 | 660000               |                     |          |
| Frequency (MHz) |            |         |           | 3750                | 3840                   | 3930                 |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 20.93               | 21.02                  | 20.97                | 22.6                | 0.0      |
| 100             | PV2 BPSK   | 1       | 137       | 20.89               | 20.90                  | 20.86                |                     |          |
| 100             | PV2 BPSK   | 1       | 271       | 20.79               | 20.84                  | 20.76                |                     |          |
| 100             | PV2 BPSK   | 135     | 0         | 20.86               | 20.93                  | 20.86                |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 20.82               | 20.89                  | 20.88                | 22.6                | 0.0      |
| 100             | PV2 BPSK   | 135     | 138       | 20.88               | 20.92                  | 20.88                |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 20.90               | 20.91                  | 20.81                |                     |          |
| 100             | QPSK       | 1       | 1         | 21.19               | 21.22                  | 21.14                |                     |          |
| 100             | QPSK       | 1       | 137       | 20.86               | 20.95                  | 20.87                | 22.6                | 0.0      |
| 100             | QPSK       | 1       | 271       | 21.03               | 21.04                  | 21.00                |                     |          |
| 100             | QPSK       | 135     | 0         | 20.95               | 20.91                  | 20.91                |                     |          |
| 100             | QPSK       | 135     | 69        | 20.84               | 20.99                  | 20.81                |                     |          |
| 100             | QPSK       | 135     | 138       | 20.87               | 20.96                  | 20.96                | 6.9                 | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.90               | 20.90                  | 20.81                |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.99               | 21.06                  | 20.97                |                     |          |
| 100             | 64QAM      | 1       | 1         | 20.96               | 20.98                  | 20.92                |                     |          |
| 100             | 256QAM     | 1       | 1         | 19.08               | 19.15                  | 19.07                | 21.1                | 1.5      |
| Channel         |            |         |           | 649668              | 650000                 | 662334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02             | 3840                   | 3935.01              |                     |          |
| 90              | PV2 BPSK   | 1       | 1         | 20.87               | 20.97                  | 20.83                | 22.6                | 0.0      |
| Channel         |            |         |           | 648334              | 650000                 | 662334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01             | 3840                   | 3940.02              |                     |          |
| 80              | PV2 BPSK   | 1       | 1         | 20.91               | 21.01                  | 20.95                | 22.6                | 0.0      |
| Channel         |            |         |           | 649000              | 650000                 | 663000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                | 3840                   | 3945                 |                     |          |
| 70              | PV2 BPSK   | 1       | 1         | 20.84               | 20.92                  | 20.90                | 22.6                | 0.0      |
| Channel         |            |         |           | 649668              | 650000                 | 663334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02             | 3840                   | 3950.01              |                     |          |
| 60              | PV2 BPSK   | 1       | 1         | 20.84               | 20.95                  | 20.89                | 22.6                | 0.0      |
| Channel         |            |         |           | 648334              | 650000                 | 663968               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01             | 3840                   | 3953.02              |                     |          |
| 50              | PV2 BPSK   | 1       | 1         | 20.84               | 21.01                  | 20.94                | 22.6                | 0.0      |
| Channel         |            |         |           | 648000              | 650000                 | 664000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                | 3840                   | 3960                 |                     |          |
| 40              | PV2 BPSK   | 1       | 1         | 20.85               | 21.00                  | 20.93                | 22.6                | 0.0      |
| Channel         |            |         |           | 647668              | 650000                 | 664334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.01             | 3840                   | 3963.01              |                     |          |
| 30              | PV2 BPSK   | 1       | 1         | 20.77               | 20.83                  | 20.82                | 22.6                | 0.0      |
| Channel         |            |         |           | 647334              | 650000                 | 664668               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01             | 3840                   | 3970.02              |                     |          |
| 20              | PV2 BPSK   | 1       | 1         | 20.91               | 20.73                  | 20.84                | 22.6                | 0.0      |

## Ant 3 PC3/HPUE n77 SA Down power / DSI 3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           | 650000              | 660000                 | 660000               |                     |          |
| Frequency (MHz) |            |         |           | 3750                | 3840                   | 3930                 |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 20.93               | 21.02                  | 20.97                | 21.6                | 0.0      |
| 100             | PV2 BPSK   | 1       | 137       | 20.89               | 20.90                  | 20.86                |                     |          |
| 100             | PV2 BPSK   | 1       | 271       | 20.79               | 20.84                  | 20.76                |                     |          |
| 100             | PV2 BPSK   | 135     | 0         | 20.86               | 20.93                  | 20.86                |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 20.82               | 20.89                  | 20.88                | 21.6                | 0.0      |
| 100             | PV2 BPSK   | 135     | 138       | 20.88               | 20.92                  | 20.88                |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 20.90               | 20.91                  | 20.81                |                     |          |
| 100             | QPSK       | 1       | 1         | 21.19               | 21.22                  | 21.14                |                     |          |
| 100             | QPSK       | 1       | 137       | 20.86               | 20.95                  | 20.87                | 21.6                | 0.0      |
| 100             | QPSK       | 1       | 271       | 21.03               | 21.04                  | 21.00                |                     |          |
| 100             | QPSK       | 135     | 0         | 20.95               | 20.91                  | 20.91                |                     |          |
| 100             | QPSK       | 135     | 69        | 20.84               | 20.99                  | 20.81                |                     |          |
| 100             | QPSK       | 135     | 138       | 20.87               | 20.96                  | 20.96                | 5.9                 | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.90               | 20.90                  | 20.81                |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.99               | 21.06                  | 20.97                |                     |          |
| 100             | 64QAM      | 1       | 1         | 20.96               | 20.98                  | 20.92                |                     |          |
| 100             | 256QAM     | 1       | 1         | 19.08               | 19.15                  | 19.07                | 21.1                | 0.5      |
| Channel         |            |         |           | 649668              | 650000                 | 662334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02             | 3840                   | 3935.01              |                     |          |
| 90              | PV2 BPSK   | 1       | 1         | 20.87               | 20.97                  | 20.83                | 21.6                | 0.0      |
| Channel         |            |         |           | 648334              | 650000                 | 663968               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01             | 3840                   | 3940.02              |                     |          |
| 80              | PV2 BPSK   | 1       | 1         | 20.91               | 21.01                  | 20.95                | 21.6                | 0.0      |
| Channel         |            |         |           | 649000              | 650000                 | 663000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                | 3840                   | 3945                 |                     |          |
| 70              | PV2 BPSK   | 1       | 1         | 20.84               | 20.92                  | 20.90                | 21.6                | 0.0      |
| Channel         |            |         |           | 649668              | 650000                 | 663334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02             | 3840                   | 3950.01              |                     |          |
| 60              | PV2 BPSK   | 1       | 1         | 20.84               | 20.95                  | 20.89                | 21.6                | 0.0      |
| Channel         |            |         |           | 648334              | 650000                 | 663968               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01             | 3840                   | 3953.02              |                     |          |
| 50              | PV2 BPSK   | 1       | 1         | 20.84               | 21.01                  | 20.94                | 21.6                | 0.0      |
| Channel         |            |         |           | 648000              | 650000                 | 664000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                | 3840                   | 3960                 |                     |          |
| 40              | PV2 BPSK   | 1       | 1         | 20.85               | 21.00                  | 20.93                | 21.6                | 0.0      |
| Channel         |            |         |           | 647668              | 650000                 | 664334               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.01             | 3840                   | 3963.01              |                     |          |
| 30              | PV2 BPSK   | 1       | 1         | 20.77               | 20.83                  | 20.82                | 21.6                | 0.0      |
| Channel         |            |         |           | 647334              | 650000                 | 664668               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01             | 3840                   | 3970.02              |                     |          |
| 20              | PV2 BPSK   | 1       | 1         | 20.91               | 20.73                  | 20.84                | 21.6                | 0.0      |

### Ant4 n5 SA/NSA Full Power / DSI 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                      | 167300                         | 167800                       | 24.6                   | 0.0         |
| Frequency (MHz) |            |         |           | 834                         | 836.5                          | 839                          |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 24.03                       | 24.03                          | 24.09                        | 24.6                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 24.07                       | 24.07                          | 24.07                        |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 23.81                       | 23.81                          | 23.75                        |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 23.50                       | 23.48                          | 23.33                        | 24.1                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 28        | 23.91                       | 23.91                          | 23.92                        | 24.6                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 23.37                       | 23.37                          | 23.40                        | 24.1                   | 0.5         |
| 20              | PI/2 BPSK  | 100     | 0         | 23.43                       | 23.44                          | 23.48                        | 24.6                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 24.13                       | 24.18                          | 24.14                        |                        |             |
| 20              | QPSK       | 1       | 53        | 24.16                       | 24.15                          | 24.13                        |                        |             |
| 20              | QPSK       | 1       | 104       | 23.85                       | 23.84                          | 23.90                        | 23.6                   | 1.0         |
| 20              | QPSK       | 50      | 0         | 23.01                       | 23.10                          | 22.99                        |                        |             |
| 20              | QPSK       | 50      | 28        | 24.02                       | 23.04                          | 24.03                        |                        |             |
| 20              | QPSK       | 50      | 56        | 22.86                       | 22.87                          | 22.92                        | 23.6                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.96                       | 23.01                          | 22.99                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 23.14                       | 23.14                          | 23.16                        |                        |             |
| 20              | 64QAM      | 1       | 1         | 21.63                       | 21.63                          | 21.62                        | 22.1                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 19.28                       | 19.28                          | 19.25                        | 20.1                   | 4.5         |
| Channel         |            |         |           | 166300                      | 167300                         | 168300                       | 24.6                   | 0.0         |
| Frequency (MHz) |            |         |           | 831.5                       | 836.5                          | 841.5                        |                        |             |
| 15              | PI/2 BPSK  | 1       | 1         | 23.82                       | 24.01                          | 24.00                        | 24.6                   | 0.0         |
| Channel         |            |         |           | 165800                      | 167300                         | 168800                       | 24.6                   | 0.0         |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          |                        |             |
| 10              | PI/2 BPSK  | 1       | 1         | 23.81                       | 23.96                          | 24.02                        | 24.6                   | 0.0         |
| Channel         |            |         |           | 165300                      | 167300                         | 169300                       | 24.6                   | 0.0         |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                        |             |
| 5               | PI/2 BPSK  | 1       | 1         | 24.13                       | 24.02                          | 24.09                        | 24.6                   | 0.0         |

| n77 PC3 SA Full Power |            |         |           |                       |                          |                        |                     |          |     |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|--|
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |  |
| Channel               |            |         |           | 650000                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |     |  |
| 100                   | PI/2 BPSK  | 1       | 1         | 24.28                 | 24.38                    | 24.18                  | 26.0                | 0.0      |     |  |
| 100                   | PI/2 BPSK  | 1       | 137       | 24.32                 | 24.48                    | 24.45                  |                     |          |     |  |
| 100                   | PI/2 BPSK  | 1       | 271       | 24.38                 | 24.65                    | 24.62                  |                     |          |     |  |
| 100                   | PI/2 BPSK  | 135     | 0         | 23.90                 | 23.90                    | 24.12                  | 25.5                | 0.0      | 0.0 |  |
| 100                   | PI/2 BPSK  | 135     | 69        | 24.35                 | 24.41                    | 24.56                  | 26.0                |          |     |  |
| 100                   | PI/2 BPSK  | 135     | 138       | 24.28                 | 24.09                    | 23.89                  | 25.5                |          |     |  |
| 100                   | PI/2 BPSK  | 270     | 0         | 24.01                 | 24.09                    | 23.91                  | 25.5                | 0.5      | 0.0 |  |
| 100                   | QPSK       | 1       | 1         | 24.18                 | 24.78                    | 24.65                  | 26.0                |          |     |  |
| 100                   | QPSK       | 1       | 137       | 24.65                 | 24.65                    | 24.62                  |                     |          |     |  |
| 100                   | QPSK       | 1       | 271       | 24.72                 | 24.61                    | 24.35                  |                     |          |     |  |
| 100                   | QPSK       | 135     | 0         | 23.20                 | 23.98                    | 23.91                  | 25.0                | 0.0      | 0.0 |  |
| 100                   | QPSK       | 135     | 69        | 24.53                 | 24.55                    | 24.28                  | 26.0                |          |     |  |
| 100                   | QPSK       | 135     | 138       | 23.69                 | 23.65                    | 23.70                  | 25.0                |          |     |  |
| 100                   | QPSK       | 270     | 0         | 23.72                 | 23.79                    | 23.73                  | 25.0                | 1.0      | 1.0 |  |
| 100                   | 16QAM      | 1       | 1         | 24.08                 | 24.12                    | 23.85                  | 25.0                | 1.0      |     |  |
| 100                   | 64QAM      | 1       | 1         | 22.31                 | 22.21                    | 22.01                  | 23.5                | 2.5      |     |  |
| 100                   | 256QAM     | 1       | 1         | 19.88                 | 19.91                    | 19.64                  | 21.5                | 4.5      | 4.5 |  |
| Channel               |            |         |           | 649668                | 656000                   | 662334                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3745.02               | 3840                     | 3935.01                | 26.0                | 0.0      |     |  |
| 90                    | PI/2 BPSK  | 1       | 1         | 24.28                 | 24.52                    | 24.88                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3740.01               | 3840                     | 3940.02                | 26.0                | 0.0      |     |  |
| 80                    | PI/2 BPSK  | 1       | 1         | 24.28                 | 24.39                    | 24.56                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3735                  | 3840                     | 3945                   | 26.0                | 0.0      |     |  |
| 70                    | PI/2 BPSK  | 1       | 1         | 24.08                 | 24.48                    | 24.72                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3730.02               | 3840                     | 3950.01                | 26.0                | 0.0      |     |  |
| 60                    | PI/2 BPSK  | 1       | 1         | 24.15                 | 24.62                    | 24.68                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3725.01               | 3840                     | 3955.02                | 26.0                | 0.0      |     |  |
| 50                    | PI/2 BPSK  | 1       | 1         | 24.36                 | 24.48                    | 24.36                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3720                  | 3840                     | 3960                   | 26.0                | 0.0      |     |  |
| 40                    | PI/2 BPSK  | 1       | 1         | 24.21                 | 24.35                    | 24.71                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3715.02               | 3840                     | 3965.01                | 26.0                | 0.0      |     |  |
| 30                    | PI/2 BPSK  | 1       | 1         | 24.48                 | 24.32                    | 24.38                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3710.01               | 3840                     | 3970.02                | 26.0                | 0.0      |     |  |
| 20                    | PI/2 BPSK  | 1       | 1         | 24.35                 | 24.22                    | 24.18                  | 26.0                | 0.0      | 0.0 |  |
| Channel               |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |     |  |
| Frequency (MHz)       |            |         |           | 3705.01               | 3840                     | 3975.01                | 26.0                | 0.0      |     |  |

| n77 HPUE SA Full Power |            |         |           |                       |                          |                        |                     |          |  |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]               | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                |            |         |           | 650000                | 656000                   | 662000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                    | PI/2 BPSK  | 1       | 1         | 25.86                 | 25.91                    | 25.73                  | 27.5                | 0.0      |  |
| 100                    | PI/2 BPSK  | 1       | 137       | 25.84                 | 26.03                    | 25.97                  |                     |          |  |
| 100                    | PI/2 BPSK  | 1       | 271       | 26.08                 | 26.20                    | 26.16                  |                     |          |  |
| 100                    | PI/2 BPSK  | 135     | 0         | 25.31                 | 25.44                    | 25.70                  | 27.0                | 0.0      |  |
| 100                    | PI/2 BPSK  | 135     | 69        | 25.91                 | 25.98                    | 26.31                  | 27.5                |          |  |
| 100                    | PI/2 BPSK  | 135     | 138       | 25.80                 | 25.64                    | 25.46                  | 27.0                |          |  |
| 100                    | PI/2 BPSK  | 270     | 0         | 25.58                 | 25.55                    | 25.47                  | 27.0                | 0.5      |  |
| 100                    | QPSK       | 1       | 1         | 25.75                 | 26.39                    | 26.35                  | 27.5                | 0.0      |  |
| 100                    | QPSK       | 1       | 137       | 26.22                 | 26.24                    | 26.33                  |                     |          |  |
| 100                    | QPSK       | 1       | 271       | 26.28                 | 26.32                    | 25.99                  |                     |          |  |
| 100                    | QPSK       | 135     | 0         | 24.75                 | 25.38                    | 25.31                  | 26.5                | 0.0      |  |
| 100                    | QPSK       | 135     | 69        | 26.10                 | 26.14                    | 25.81                  | 27.5                |          |  |
| 100                    | QPSK       | 135     | 138       | 25.25                 | 25.14                    | 25.25                  | 26.5                |          |  |
| 100                    | QPSK       | 270     | 0         | 25.20                 | 25.35                    | 25.33                  | 26.5                | 1.0      |  |
| 100                    | 16QAM      | 1       | 1         | 25.61                 | 25.65                    | 25.32                  | 26.5                | 1.0      |  |
| 100                    | 64QAM      | 1       | 1         | 23.82                 | 23.81                    | 23.52                  | 25.0                | 2.5      |  |
| 100                    | 256QAM     | 1       | 1         | 21.21                 | 21.31                    | 20.99                  | 23.0                | 4.5      |  |
| Channel                |            |         |           | 649668                | 656000                   | 662334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3745.02               | 3840                     | 3935.01                | 26.0                | 0.0      |  |
| 90                     | PI/2 BPSK  | 1       | 1         | 25.84                 | 26.13                    | 26.37                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3740.01               | 3840                     | 3940.02                | 26.0                | 0.0      |  |
| 80                     | PI/2 BPSK  | 1       | 1         | 25.80                 | 26.08                    | 26.37                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3735                  | 3840                     | 3945                   | 26.0                | 0.0      |  |
| 70                     | PI/2 BPSK  | 1       | 1         | 25.83                 | 26.02                    | 26.48                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3730.02               | 3840                     | 3950.01                | 27.5                | 0.0      |  |
| 60                     | PI/2 BPSK  | 1       | 1         | 25.74                 | 26.14                    | 26.27                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3725.01               | 3840                     | 3955.02                | 27.5                | 0.0      |  |
| 50                     | PI/2 BPSK  | 1       | 1         | 25.84                 | 25.95                    | 26.39                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3720                  | 3840                     | 3960                   | 27.5                | 0.0      |  |
| 40                     | PI/2 BPSK  | 1       | 1         | 25.74                 | 26.08                    | 26.28                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3715.02               | 3840                     | 3965.01                | 27.5                | 0.0      |  |
| 30                     | PI/2 BPSK  | 1       | 1         | 25.94                 | 26.01                    | 25.90                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3710.01               | 3840                     | 3970.02                | 27.5                | 0.0      |  |
| 20                     | PI/2 BPSK  | 1       | 1         | 25.84                 | 26.11                    | 25.91                  | 27.5                | 0.0      |  |
| Channel                |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)        |            |         |           | 3705.01               | 3840                     | 3975.01                | 27.5                | 0.0      |  |

| Ant4 n5 NSA/SA Down power / DSI 1 |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           | 166800                | 167300                   | 167800                 | 22.6                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 834                   | 836.5                    | 839                    |                     |          |  |
| 20                                | PI/2 BPSK  | 1       | 1         | 22.05                 | 22.06                    | 21.99                  |                     |          |  |
| 20                                | PI/2 BPSK  | 1       | 53        | 21.93                 | 21.98                    | 21.90                  | 22.6                | 0.0      |  |
| 20                                | PI/2 BPSK  | 1       | 104       | 21.70                 | 21.76                    | 21.70                  |                     |          |  |
| 20                                | PI/2 BPSK  | 50      | 0         | 21.97                 | 22.03                    | 22.02                  |                     |          |  |
| 20                                | PI/2 BPSK  | 50      | 28        | 21.89                 | 21.98                    | 21.89                  | 22.6                | 0.0      |  |
| 20                                | PI/2 BPSK  | 50      | 56        | 21.86                 | 21.87                    | 21.83                  |                     |          |  |
| 20                                | PI/2 BPSK  | 100     | 0         | 21.92                 | 21.98                    | 21.97                  |                     |          |  |
| 20                                | QPSK       | 1       | 1         | 22.03                 | 22.10                    | 21.97                  | 22.6                | 0.0      |  |
| 20                                | QPSK       | 1       | 53        | 22.02                 | 22.05                    | 21.99                  |                     |          |  |
| 20                                | QPSK       | 1       | 104       | 21.75                 | 21.79                    | 21.70                  |                     |          |  |
| 20                                | QPSK       | 50      | 0         | 22.02                 | 21.96                    | 22.04                  | 22.6                | 0.0      |  |
| 20                                | QPSK       | 50      | 28        | 21.87                 | 22.07                    | 21.92                  |                     |          |  |
| 20                                | QPSK       | 50      | 56        | 21.79                 | 21.85                    | 21.81                  |                     | 22.6     |  |
| 20                                | QPSK       | 100     | 0         | 21.93                 | 21.97                    | 21.96                  | 22.6                | 0.0      |  |
| 20                                | 16QAM      | 1       | 1         | 21.77                 | 21.79                    | 21.72                  |                     |          |  |
| 20                                | 64QAM      | 1       | 1         | 21.14                 | 21.22                    | 21.12                  |                     | 22.1     |  |
| 20                                | 256QAM     | 1       | 1         | 19.23                 | 19.25                    | 19.23                  |                     |          |  |
| Channel                           |            |         |           | 166300                | 167300                   | 168300                 | 22.6                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |          |  |
| 15                                | PI/2 BPSK  | 1       | 1         | 21.98                 | 21.98                    | 21.91                  |                     | 22.6     |  |
| Channel                           |            |         |           | 165800                | 167300                   | 168800                 | 22.6                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10                                | PI/2 BPSK  | 1       | 1         | 21.98                 | 22.01                    | 21.90                  |                     | 22.6     |  |
| Channel                           |            |         |           | 165300                | 167300                   | 169300                 | 22.6                | 0.0      |  |
| Frequency (MHz)                   |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |          |  |
| 5                                 | PI/2 BPSK  | 1       | 1         | 21.96                 | 22.02                    | 21.94                  |                     | 22.6     |  |

| Ant4 n5 NSA/SA Down power / DSI 3/5 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                             |            |         |           | 166800                | 167300                   | 167800                 | 21.6                | 0.0      |  |
| Frequency (MHz)                     |            |         |           | 834                   | 836.5                    | 839                    |                     |          |  |
| 20                                  | PI/2 BPSK  | 1       | 1         | 20.99                 | 21.02                    | 21.03                  |                     |          |  |
| 20                                  | PI/2 BPSK  | 1       | 53        | 21.00                 | 21.02                    | 21.00                  | 21.6                | 0.0      |  |
| 20                                  | PI/2 BPSK  | 1       | 104       | 20.73                 | 20.74                    | 20.71                  |                     |          |  |
| 20                                  | PI/2 BPSK  | 50      | 0         | 20.93                 | 20.96                    | 20.99                  |                     |          |  |
| 20                                  | PI/2 BPSK  | 50      | 28        | 20.90                 | 20.98                    | 20.89                  | 21.6                | 0.0      |  |
| 20                                  | PI/2 BPSK  | 50      | 56        | 20.84                 | 20.86                    | 20.84                  |                     |          |  |
| 20                                  | PI/2 BPSK  | 100     | 0         | 20.85                 | 20.91                    | 20.87                  |                     |          |  |
| 20                                  | QPSK       | 1       | 1         | 20.99                 | 21.06                    | 20.95                  | 21.6                | 0.0      |  |
| 20                                  | QPSK       | 1       | 53        | 20.94                 | 20.99                    | 20.98                  |                     |          |  |
| 20                                  | QPSK       | 1       | 104       | 20.63                 | 20.72                    | 20.72                  |                     |          |  |
| 20                                  | QPSK       | 50      | 0         | 21.00                 | 21.00                    | 20.97                  | 21.6                | 0.0      |  |
| 20                                  | QPSK       | 50      | 28        | 20.95                 | 20.97                    | 20.93                  |                     |          |  |
| 20                                  | QPSK       | 50      | 56        | 20.79                 | 20.83                    | 20.74                  |                     | 21.6     |  |
| 20                                  | QPSK       | 100     | 0         | 20.85                 | 20.88                    | 20.83                  | 21.6                | 0.0      |  |
| 20                                  | 16QAM      | 1       | 1         | 20.92                 | 20.97                    | 20.96                  |                     |          |  |
| 20                                  | 64QAM      | 1       | 1         | 20.84                 | 20.87                    | 20.82                  |                     | 21.6     |  |
| 20                                  | 256QAM     | 1       | 1         | 19.26                 | 19.26                    | 19.22                  |                     |          |  |
| Channel                             |            |         |           | 166300                | 167300                   | 168300                 | 21.6                | 0.0      |  |
| Frequency (MHz)                     |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |          |  |
| 15                                  | PI/2 BPSK  | 1       | 1         | 20.93                 | 20.97                    | 20.98                  |                     | 21.6     |  |
| Channel                             |            |         |           | 165800                | 167300                   | 168800                 | 21.6                | 0.0      |  |
| Frequency (MHz)                     |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10                                  | PI/2 BPSK  | 1       | 1         | 20.99                 | 21.06                    | 20.94                  |                     | 21.6     |  |
| Channel                             |            |         |           | 165300                | 167300                   | 169300                 | 21.6                | 0.0      |  |
| Frequency (MHz)                     |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |          |  |
| 5                                   | PI/2 BPSK  | 1       | 1         | 20.90                 | 21.02                    | 20.95                  |                     | 21.6     |  |

| Ant 4 n77 PC3/HPUE SA Down power / DSI 1/3/5 |            |         |           |                     |                        |                      |                     |          |  |
|----------------------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                                     | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                                      |            |         |           | 650000              | 656000                 | 662000               |                     |          |  |
| Frequency (MHz)                              |            |         |           | 3750                | 3840                   | 3930                 |                     |          |  |
| 100                                          | Pi2 BPSK   | 1       | 1         | 17.84               | 17.84                  | 17.83                | 19.5                | 0.0      |  |
| 100                                          | Pi2 BPSK   | 1       | 137       | 17.87               | 17.94                  | 17.91                |                     |          |  |
| 100                                          | Pi2 BPSK   | 1       | 271       | 17.97               | 18.02                  | 17.97                |                     |          |  |
| 100                                          | Pi2 BPSK   | 135     | 0         | 17.95               | 18.03                  | 17.96                | 19.5                | 0.0      |  |
| 100                                          | Pi2 BPSK   | 135     | 69        | 17.87               | 17.87                  | 17.79                | 19.5                |          |  |
| 100                                          | Pi2 BPSK   | 135     | 138       | 17.76               | 17.85                  | 17.75                | 19.5                |          |  |
| 100                                          | Pi2 BPSK   | 270     | 0         | 17.84               | 17.88                  | 17.84                | 19.5                | 0.0      |  |
| 100                                          | QPSK       | 1       | 1         | 17.82               | 17.89                  | 17.99                | 19.5                | 0.0      |  |
| 100                                          | QPSK       | 1       | 137       | 17.91               | 17.93                  | 17.83                |                     |          |  |
| 100                                          | QPSK       | 1       | 271       | 17.95               | 17.99                  | 17.97                |                     |          |  |
| 100                                          | QPSK       | 135     | 0         | 17.75               | 17.83                  | 17.77                | 19.5                | 0.0      |  |
| 100                                          | QPSK       | 135     | 69        | 17.87               | 17.92                  | 17.83                | 19.5                |          |  |
| 100                                          | QPSK       | 135     | 138       | 17.84               | 17.85                  | 17.81                | 19.5                |          |  |
| 100                                          | QPSK       | 270     | 0         | 17.89               | 17.89                  | 17.80                | 19.5                | 0.0      |  |
| 100                                          | 16QAM      | 1       | 1         | 17.89               | 17.98                  | 17.89                | 19.5                | 0.0      |  |
| 100                                          | 64QAM      | 1       | 1         | 17.78               | 17.81                  | 17.80                | 19.5                | 0.0      |  |
| 100                                          | 256QAM     | 1       | 1         | 17.99               | 18.03                  | 17.98                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 649668              | 656000                 | 662334               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3745.02             | 3840                   | 3935.01              |                     |          |  |
| 90                                           | Pi2 BPSK   | 1       | 1         | 17.79               | 17.77                  | 17.77                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 649334              | 656000                 | 662668               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3740.01             | 3840                   | 3940.02              |                     |          |  |
| 80                                           | Pi2 BPSK   | 1       | 1         | 17.75               | 17.83                  | 17.74                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 649000              | 656000                 | 663000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3735                | 3840                   | 3945                 |                     |          |  |
| 70                                           | Pi2 BPSK   | 1       | 1         | 17.83               | 17.80                  | 17.78                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 648668              | 656000                 | 663334               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3730.02             | 3840                   | 3950.01              |                     |          |  |
| 60                                           | Pi2 BPSK   | 1       | 1         | 17.79               | 17.80                  | 17.82                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 648334              | 656000                 | 663668               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3725.01             | 3840                   | 3955.02              |                     |          |  |
| 50                                           | Pi2 BPSK   | 1       | 1         | 17.75               | 17.79                  | 17.79                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 648000              | 656000                 | 664000               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3720                | 3840                   | 3950                 |                     |          |  |
| 40                                           | Pi2 BPSK   | 1       | 1         | 17.79               | 17.78                  | 17.81                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 647668              | 656000                 | 664334               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3715.02             | 3840                   | 3965.01              |                     |          |  |
| 30                                           | Pi2 BPSK   | 1       | 1         | 17.81               | 17.92                  | 17.87                | 19.5                | 0.0      |  |
| Channel                                      |            |         |           | 647334              | 656000                 | 664668               | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                              |            |         |           | 3710.01             | 3840                   | 3970.02              |                     |          |  |
| 20                                           | Pi2 BPSK   | 1       | 1         | 17.89               | 17.92                  | 17.93                | 19.5                | 0.0      |  |

| Ant 4 n77 PC3/HPUE SA Down power / DSI 4 |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                                 | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                                  |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)                          |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                                      | PV2 BPSK   | 1       | 1         | 19.96                 | 20.00                    | 19.93                  | 21.5                | 0.0      |  |
| 100                                      | PV2 BPSK   | 1       | 137       | 20.07                 | 20.13                    | 20.11                  |                     |          |  |
| 100                                      | PV2 BPSK   | 1       | 271       | 20.07                 | 20.12                    | 20.11                  |                     |          |  |
| 100                                      | PV2 BPSK   | 135     | 0         | 19.96                 | 19.99                    | 19.91                  | 21.5                | 0.0      |  |
| 100                                      | PV2 BPSK   | 135     | 69        | 19.96                 | 20.00                    | 19.91                  | 21.5                |          |  |
| 100                                      | PV2 BPSK   | 135     | 138       | 19.88                 | 19.94                    | 19.93                  | 21.5                |          |  |
| 100                                      | PV2 BPSK   | 270     | 0         | 19.84                 | 19.90                    | 19.82                  | 21.5                | 0.0      |  |
| 100                                      | QPSK       | 1       | 1         | 19.93                 | 20.23                    | 20.03                  | 21.5                | 0.0      |  |
| 100                                      | QPSK       | 1       | 137       | 20.08                 | 20.14                    | 20.10                  |                     |          |  |
| 100                                      | QPSK       | 1       | 271       | 20.19                 | 20.17                    | 20.13                  |                     |          |  |
| 100                                      | QPSK       | 135     | 0         | 19.86                 | 19.93                    | 19.85                  | 21.5                | 0.0      |  |
| 100                                      | QPSK       | 135     | 69        | 19.91                 | 20.01                    | 19.96                  | 21.5                |          |  |
| 100                                      | QPSK       | 135     | 138       | 20.00                 | 20.00                    | 19.97                  | 21.5                |          |  |
| 100                                      | QPSK       | 270     | 0         | 19.91                 | 19.94                    | 19.91                  | 21.5                | 0.0      |  |
| 100                                      | 16QAM      | 1       | 1         | 19.90                 | 19.97                    | 19.91                  | 21.5                | 0.0      |  |
| 100                                      | 64QAM      | 1       | 1         | 19.88                 | 19.94                    | 19.85                  | 21.5                | 0.0      |  |
| 100                                      | 256QAM     | 1       | 1         | 20.02                 | 20.09                    | 20.09                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 649668                | 656000                   | 662334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3745.02               | 3840                     | 3935.01                |                     |          |  |
| 90                                       | PV2 BPSK   | 1       | 1         | 19.94                 | 19.97                    | 19.85                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3740.01               | 3840                     | 3940.02                |                     |          |  |
| 80                                       | PV2 BPSK   | 1       | 1         | 19.88                 | 19.98                    | 19.91                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                                       | PV2 BPSK   | 1       | 1         | 19.90                 | 19.93                    | 19.86                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 648668                | 656000                   | 663334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3730.02               | 3840                     | 3950.01                |                     |          |  |
| 60                                       | PV2 BPSK   | 1       | 1         | 19.96                 | 19.96                    | 19.91                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3725.01               | 3840                     | 3955.02                |                     |          |  |
| 50                                       | PV2 BPSK   | 1       | 1         | 19.89                 | 19.94                    | 19.85                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3720                  | 3840                     | 3950                   |                     |          |  |
| 40                                       | PV2 BPSK   | 1       | 1         | 19.93                 | 19.98                    | 19.90                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 647668                | 656000                   | 664334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3715.02               | 3840                     | 3965.01                |                     |          |  |
| 30                                       | PV2 BPSK   | 1       | 1         | 19.88                 | 19.92                    | 19.95                  | 21.5                | 0.0      |  |
| Channel                                  |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                          |            |         |           | 3710.01               | 3840                     | 3970.02                |                     |          |  |
| 20                                       | PV2 BPSK   | 1       | 1         | 19.89                 | 19.97                    | 19.93                  | 21.5                | 0.0      |  |

| Ant 6 n7 SA/NSA Full Power / DSI 1/4 |            |         |           |                             |                                |                              |                        |             |
|--------------------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]                             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel                              |            |         |           | 502000                      | 507000                         | 512000                       | 20.0                   | 0.0         |
| Frequency (MHz)                      |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20                                   | PI/2 BPSK  | 1       | 1         | 19.86                       | 19.87                          | 19.90                        |                        |             |
| 20                                   | PI/2 BPSK  | 1       | 53        | 19.69                       | 19.71                          | 19.61                        | 19.5                   | 0.5         |
| 20                                   | PI/2 BPSK  | 1       | 104       | 19.62                       | 19.61                          | 19.64                        |                        |             |
| 20                                   | PI/2 BPSK  | 50      | 0         | 19.16                       | 19.16                          | 19.12                        |                        |             |
| 20                                   | PI/2 BPSK  | 50      | 28        | 19.65                       | 19.63                          | 19.59                        | 19.5                   | 0.5         |
| 20                                   | PI/2 BPSK  | 50      | 56        | 19.16                       | 19.14                          | 19.18                        |                        |             |
| 20                                   | PI/2 BPSK  | 100     | 0         | 19.17                       | 19.15                          | 19.14                        |                        |             |
| 20                                   | QPSK       | 1       | 1         | 19.73                       | 19.92                          | 19.85                        | 20.0                   | 0.0         |
| 20                                   | QPSK       | 1       | 53        | 19.78                       | 19.78                          | 19.87                        |                        |             |
| 20                                   | QPSK       | 1       | 104       | 19.68                       | 19.67                          | 19.72                        |                        |             |
| 20                                   | QPSK       | 50      | 0         | 18.88                       | 18.69                          | 18.76                        | 19.0                   | 1.0         |
| 20                                   | QPSK       | 50      | 28        | 19.67                       | 19.69                          | 19.68                        | 20.0                   | 0.0         |
| 20                                   | QPSK       | 50      | 56        | 18.62                       | 18.71                          | 18.64                        | 19.0                   | 1.0         |
| 20                                   | QPSK       | 100     | 0         | 18.63                       | 18.65                          | 18.58                        |                        |             |
| 20                                   | 16QAM      | 1       | 1         | 18.61                       | 18.62                          | 18.54                        | 19.0                   | 1.0         |
| 20                                   | 64QAM      | 1       | 1         | 17.25                       | 17.25                          | 17.26                        | 17.5                   | 2.5         |
| 20                                   | 256QAM     | 1       | 1         | 15.13                       | 15.12                          | 15.15                        | 15.5                   | 4.5         |
| Channel                              |            |         |           | 501500                      | 507000                         | 512500                       | 20.0                   | 0.0         |
| Frequency (MHz)                      |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15                                   | PI/2 BPSK  | 1       | 1         | 19.63                       | 19.63                          | 19.89                        |                        |             |
| Channel                              |            |         |           | 501000                      | 507000                         | 513000                       | 20.0                   | 0.0         |
| Frequency (MHz)                      |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10                                   | PI/2 BPSK  | 1       | 1         | 19.67                       | 19.64                          | 19.63                        |                        |             |
| Channel                              |            |         |           | 500500                      | 507000                         | 513500                       | 20.0                   | 0.0         |
| Frequency (MHz)                      |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5                                    | PI/2 BPSK  | 1       | 1         | 19.78                       | 19.63                          | 19.88                        |                        |             |

# Ant 6 n41 SA Full Power

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 508202                      | 518598                         | 528000                       | 25.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 24.85                       | 25.02                          | 24.88                        | 25.5                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 137       | 25.03                       | 25.07                          | 24.93                        |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 24.25                       | 24.31                          | 24.16                        | 25.5                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 0         | 24.30                       | 24.38                          | 24.25                        |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        | 24.91                       | 24.97                          | 24.88                        | 25.0                   | 0.5         |
| 100             | PI/2 BPSK  | 135     | 138       | 24.27                       | 24.41                          | 24.29                        |                        |             |
| 100             | PI/2 BPSK  | 270     | 0         | 24.43                       | 24.52                          | 24.43                        | 25.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 25.04                       | 25.10                          | 24.95                        |                        |             |
| 100             | QPSK       | 1       | 137       | 24.87                       | 25.00                          | 24.94                        | 25.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 23.61                       | 23.77                          | 23.65                        |                        |             |
| 100             | QPSK       | 135     | 0         | 23.80                       | 23.91                          | 23.76                        | 25.5                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 24.78                       | 24.97                          | 24.85                        |                        |             |
| 100             | QPSK       | 135     | 138       | 23.38                       | 23.54                          | 23.44                        | 24.5                   | 1.0         |
| 100             | QPSK       | 270     | 0         | 23.94                       | 24.05                          | 23.93                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 23.91                       | 23.99                          | 23.85                        | 24.5                   | 1.0         |
| 100             | 64QAM      | 1       | 1         | 22.75                       | 22.83                          | 22.75                        | 23.0                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 20.91                       | 20.96                          | 20.87                        | 21.0                   | 4.5         |
| Channel         |            |         |           | 508200                      | 518598                         | 528996                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      | (dBm)                  | (dB)        |
| 90              | PI/2 BPSK  | 1       | 1         | 24.92                       | 24.99                          | 24.86                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529998                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2649.99                      | (dBm)                  | (dB)        |
| 80              | PI/2 BPSK  | 1       | 1         | 24.96                       | 25.01                          | 24.76                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 508200                      | 518598                         | 531596                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2536                        | 2592.99                        | 2659.98                      | (dBm)                  | (dB)        |
| 60              | PI/2 BPSK  | 1       | 1         | 24.87                       | 24.89                          | 24.85                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      | (dBm)                  | (dB)        |
| 50              | PI/2 BPSK  | 1       | 1         | 24.85                       | 24.90                          | 24.73                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2516.01                     | 2592.99                        | 2670                         | (dBm)                  | (dB)        |
| 40              | PI/2 BPSK  | 1       | 1         | 24.72                       | 24.91                          | 24.70                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534996                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      | (dBm)                  | (dB)        |
| 30              | PI/2 BPSK  | 1       | 1         | 24.98                       | 24.92                          | 24.81                        | 25.5                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      | (dBm)                  | (dB)        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.91                       | 25.02                          | 24.77                        | 25.5                   | 0.0         |

### Ant 6 n7 SA/NSA Down power / DSI 3/5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 17.54                       | 17.60                          | 17.55                        | 18.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 17.44                       | 17.49                          | 17.45                        |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 17.36                       | 17.44                          | 17.44                        |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 17.45                       | 17.52                          | 17.46                        | 18.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 28        | 17.51                       | 17.55                          | 17.54                        | 18.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 17.44                       | 17.51                          | 17.46                        | 18.0                   | 0.0         |
| 20              | PI/2 BPSK  | 100     | 0         | 17.50                       | 17.57                          | 17.56                        |                        |             |
| 20              | QPSK       | 1       | 1         | 17.71                       | 17.83                          | 17.40                        | 18.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 17.49                       | 17.55                          | 17.54                        |                        |             |
| 20              | QPSK       | 1       | 104       | 17.42                       | 17.46                          | 17.41                        |                        |             |
| 20              | QPSK       | 50      | 0         | 17.52                       | 17.60                          | 17.53                        | 18.0                   | 0.0         |
| 20              | QPSK       | 50      | 28        | 17.53                       | 17.63                          | 17.58                        | 18.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 17.55                       | 17.58                          | 17.54                        | 18.0                   | 0.0         |
| 20              | QPSK       | 100     | 0         | 17.53                       | 17.62                          | 17.54                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 17.82                       | 17.84                          | 17.80                        | 18.0                   | 0.0         |
| 20              | 64QAM      | 1       | 1         | 17.33                       | 17.35                          | 17.25                        | 17.5                   | 0.5         |
| 20              | 256QAM     | 1       | 1         | 15.11                       | 15.14                          | 15.09                        | 15.5                   | 2.5         |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | PI/2 BPSK  | 1       | 1         | 17.50                       | 17.53                          | 17.46                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10              | PI/2 BPSK  | 1       | 1         | 17.45                       | 17.58                          | 17.45                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | PI/2 BPSK  | 1       | 1         | 17.68                       | 17.53                          | 17.78                        | 18.0                   | 0.0         |

Ant 6 n41 SA Down power / DSI 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 5052.02                  | 5189.98                     | 5300.00                   |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 20.77                    | 20.77                       | 20.89                     | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 20.77                    | 20.85                       | 20.76                     |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 20.75                    | 20.80                       | 20.71                     |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 20.72                    | 20.79                       | 20.86                     | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 20.80                    | 20.87                       | 20.76                     |                        |             |
| 100             | PI2 BPSK   | 135     | 138       | 20.82                    | 20.85                       | 20.76                     |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 20.82                    | 20.88                       | 20.76                     | 21.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 20.81                    | 21.13                       | 20.81                     |                        |             |
| 100             | QPSK       | 1       | 137       | 20.94                    | 21.01                       | 20.89                     |                        |             |
| 100             | QPSK       | 1       | 271       | 20.82                    | 20.89                       | 20.75                     | 21.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 20.94                    | 20.91                       | 20.79                     |                        |             |
| 100             | QPSK       | 135     | 69        | 20.93                    | 20.95                       | 20.70                     |                        |             |
| 100             | QPSK       | 135     | 138       | 20.93                    | 20.83                       | 20.92                     | 21.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 20.86                    | 20.89                       | 20.80                     |                        |             |
| 100             | 16QAM      | 1       | 1         | 21.03                    | 21.11                       | 20.97                     | 21.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 21.00                    | 21.05                       | 20.91                     | 21.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 19.48                    | 19.48                       | 19.46                     | 21.0                   | 0.5         |
| Channel         |            |         |           | 506200                   | 518998                      | 528996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                        |             |
| 90              | PI2 BPSK   | 1       | 1         | 20.94                    | 20.97                       | 20.80                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 507204                   | 519003                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2643.99                   |                        |             |
| 80              | PI2 BPSK   | 1       | 1         | 20.90                    | 20.93                       | 20.86                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518998                      | 531996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |
| 60              | PI2 BPSK   | 1       | 1         | 20.89                    | 20.89                       | 20.82                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 504204                   | 518998                      | 532998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2621.02                  | 2592.99                     | 2664.99                   |                        |             |
| 50              | PI2 BPSK   | 1       | 1         | 20.93                    | 20.91                       | 20.88                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 503202                   | 518998                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 20.89                    | 20.89                       | 20.82                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 502200                   | 518998                      | 534996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |
| 30              | PI2 BPSK   | 1       | 1         | 20.91                    | 20.94                       | 20.84                     | 21.5                   | 0.0         |
| Channel         |            |         |           | 501204                   | 518998                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2496.02                  | 2592.99                     | 2693.99                   |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 20.96                    | 20.96                       | 20.79                     | 21.5                   | 0.0         |

Ant 6 n41 SA Down power / DSI 3/5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 508202                   | 518998                      | 530000                    |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 18.09                    | 18.10                       | 18.05                     | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 18.08                    | 18.13                       | 18.04                     |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 18.00                    | 18.03                       | 18.01                     |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 17.87                    | 17.93                       | 17.87                     | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 17.89                    | 17.97                       | 17.90                     |                        |             |
| 100             | PI2 BPSK   | 135     | 138       | 17.98                    | 18.00                       | 17.99                     |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 17.86                    | 17.94                       | 17.90                     | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 17.87                    | 18.17                       | 17.93                     |                        |             |
| 100             | QPSK       | 1       | 137       | 18.08                    | 18.09                       | 18.03                     |                        |             |
| 100             | QPSK       | 1       | 271       | 17.97                    | 18.02                       | 17.90                     | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 17.89                    | 17.91                       | 17.86                     |                        |             |
| 100             | QPSK       | 135     | 69        | 17.91                    | 17.93                       | 17.83                     |                        |             |
| 100             | QPSK       | 135     | 138       | 17.78                    | 17.87                       | 17.83                     | 18.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 17.95                    | 17.97                       | 17.89                     |                        |             |
| 100             | 16QAM      | 1       | 1         | 17.76                    | 17.96                       | 17.85                     | 18.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 18.08                    | 18.12                       | 18.05                     | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.89                    | 17.91                       | 17.88                     | 18.0                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518998                      | 528996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                        |             |
| 90              | PI2 BPSK   | 1       | 1         | 18.03                    | 18.02                       | 18.02                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 507204                   | 519003                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2643.99                   |                        |             |
| 80              | PI2 BPSK   | 1       | 1         | 18.03                    | 18.05                       | 18.03                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 506200                   | 518998                      | 531996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |
| 60              | PI2 BPSK   | 1       | 1         | 18.07                    | 18.01                       | 17.96                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 504204                   | 518998                      | 532998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   |                        |             |
| 50              | PI2 BPSK   | 1       | 1         | 18.03                    | 18.01                       | 18.03                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 503202                   | 518998                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 18.04                    | 18.04                       | 17.98                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 502200                   | 518998                      | 534996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |
| 30              | PI2 BPSK   | 1       | 1         | 18.04                    | 18.08                       | 18.03                     | 18.5                   | 0.0         |
| Channel         |            |         |           | 501204                   | 518998                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2496.02                  | 2592.99                     | 2693.99                   |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 18.03                    | 18.03                       | 17.97                     | 18.5                   | 0.0         |

Ant 6 n41 SA Down power / DSI 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 508202                   | 518998                      | 530000                    |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 22.88                    | 22.98                       | 22.96                     | 23.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 22.85                    | 22.90                       | 22.87                     |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 22.95                    | 22.99                       | 22.96                     |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 22.99                    | 23.06                       | 23.03                     | 23.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 22.96                    | 23.05                       | 23.05                     |                        |             |
| 100             | PI2 BPSK   | 135     | 138       | 23.09                    | 23.09                       | 23.02                     |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 23.05                    | 23.14                       | 23.06                     | 23.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 23.06                    | 23.24                       | 23.01                     |                        |             |
| 100             | QPSK       | 1       | 137       | 23.09                    | 23.11                       | 23.07                     |                        |             |
| 100             | QPSK       | 1       | 271       | 23.02                    | 23.13                       | 23.06                     | 23.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 23.11                    | 23.16                       | 23.11                     |                        |             |
| 100             | QPSK       | 135     | 69        | 23.09                    | 23.17                       | 23.12                     |                        |             |
| 100             | QPSK       | 135     | 138       | 23.14                    | 23.16                       | 23.08                     | 23.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 22.04                    | 22.09                       | 22.02                     |                        |             |
| 100             | 16QAM      | 1       | 1         | 22.07                    | 22.02                       | 21.96                     | 23.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 21.88                    | 21.73                       | 21.68                     | 23.0                   | 0.5         |
| 100             | 256QAM     | 1       | 1         | 20.02                    | 20.00                       | 20.09                     | 21.0                   | 2.5         |
| Channel         |            |         |           | 508200                   | 518998                      | 528996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                        |             |
| 90              | PI2 BPSK   | 1       | 1         | 22.90                    | 22.90                       | 22.87                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 507204                   | 519003                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2643.99                   |                        |             |
| 80              | PI2 BPSK   | 1       | 1         | 22.80                    | 22.88                       | 22.84                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 506200                   | 518998                      | 531996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |
| 60              | PI2 BPSK   | 1       | 1         | 22.87                    | 22.89                       | 22.85                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 504204                   | 518998                      | 532998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   |                        |             |
| 50              | PI2 BPSK   | 1       | 1         | 22.91                    | 22.84                       | 22.84                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 503202                   | 518998                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 22.89                    | 22.90                       | 22.89                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 502200                   | 518998                      | 534996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |
| 30              | PI2 BPSK   | 1       | 1         | 22.89                    | 22.91                       | 22.85                     | 23.5                   | 0.0         |
| Channel         |            |         |           | 501204                   | 518998                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2496.02                  | 2592.99                     | 2693.99                   |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 22.85                    | 22.88                       | 22.84                     | 23.5                   | 0.0         |

### Ant 7 n7 SA/NSA Full Power / DSI 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       | 22.4                   | 0.0         |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 21.32                       | 21.33                          | 21.30                        | 22.4                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 21.44                       | 21.46                          | 21.45                        |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 21.57                       | 21.56                          | 21.58                        |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 20.85                       | 20.84                          | 20.82                        | 21.9                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 28        | 21.41                       | 21.41                          | 21.41                        | 22.4                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 21.01                       | 21.03                          | 21.02                        | 21.9                   | 0.5         |
| 20              | PI/2 BPSK  | 100     | 0         | 20.94                       | 20.95                          | 20.98                        |                        |             |
| 20              | QPSK       | 1       | 1         | 21.29                       | 21.60                          | 21.28                        | 22.4                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 21.52                       | 21.51                          | 21.52                        |                        |             |
| 20              | QPSK       | 1       | 104       | 21.57                       | 21.59                          | 21.59                        |                        |             |
| 20              | QPSK       | 50      | 0         | 20.33                       | 20.28                          | 20.26                        | 21.4                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 21.41                       | 21.43                          | 21.42                        | 22.4                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 20.55                       | 20.55                          | 20.53                        | 21.4                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 20.49                       | 20.50                          | 20.49                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 20.36                       | 20.36                          | 20.35                        | 21.4                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 18.73                       | 18.72                          | 18.75                        | 19.9                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 16.65                       | 16.66                          | 16.63                        | 17.9                   | 4.5         |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | 22.4                   | 0.0         |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | PI/2 BPSK  | 1       | 1         | 21.15                       | 21.38                          | 21.21                        | 22.4                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | 22.4                   | 0.0         |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10              | PI/2 BPSK  | 1       | 1         | 21.31                       | 21.23                          | 21.33                        | 22.4                   | 0.0         |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | 22.4                   | 0.0         |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | PI/2 BPSK  | 1       | 1         | 21.35                       | 21.40                          | 21.31                        | 22.4                   | 0.0         |