

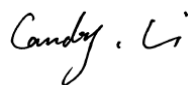
FCC PART 27  
FCC PART 22H, PART 24E  
TEST REPORT

For

**Guangdong BYD Energy-saving Technology Co., Ltd.**

BYD Industrial Park, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province, China

**FCC ID: 2AX63FF-CDP001-P2-1**

|                                                                                                                                                                                                                                                                                                              |                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report                                                                                                                                                                                                                                                                       | <b>Product Type:</b><br>Led roof display                                                      |
| <b>Report Number:</b> SH1210819-35399E-00C                                                                                                                                                                                                                                                                   |                                                                                               |
| <b>Report Date:</b> 2021-10-26                                                                                                                                                                                                                                                                               |                                                                                               |
| <b>Reviewed By:</b> RF Engineer                                                                                                                                                                                                                                                                              | Candy Li  |
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**Note:** This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '\*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                           |                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                                   | Led roof display                                                                                                                                                                                                                                                                                                                                                                     |
| Trademark                                 | Led roof display                                                                                                                                                                                                                                                                                                                                                                     |
| Tested Model                              | FF-CDP001-P2                                                                                                                                                                                                                                                                                                                                                                         |
| Frequency Range                           | WCDMA Band 2/LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX)<br>WCDMA Band 4/LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX)<br>WCDMA Band 5/LTE Band 5: 824-849MHz(TX); 869-894MHz(RX)<br>LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX)<br>LTE Band 12: 699-716MHz(TX); 729-746MHz(RX)<br>LTE Band 13: 777-787MHz(TX); 746-756MHz(RX)<br>LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) |
| Maximum Output Power<br>(Conducted power) | WCDMA Band 4: 23.0dBm,<br>LTE Band 2/4/5/7/12/13/17: 23.0dBm                                                                                                                                                                                                                                                                                                                         |
| Modulation Technique                      | 3G: BPSK, QPSK, 16QAM<br>4G: QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                             |
| Antenna Specification*                    | 0dBi (provided by the applicant)                                                                                                                                                                                                                                                                                                                                                     |
| Voltage Range                             | DC 12V                                                                                                                                                                                                                                                                                                                                                                               |
| Date of Test                              | 2021-10-26                                                                                                                                                                                                                                                                                                                                                                           |
| Sample serial number                      | SH1210819-35399E-RF-S1 (Assigned by ATC)                                                                                                                                                                                                                                                                                                                                             |
| Received date                             | 2021-08-09                                                                                                                                                                                                                                                                                                                                                                           |
| Sample/EUT Status                         | Good condition                                                                                                                                                                                                                                                                                                                                                                       |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, and Subpart 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

### Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services  
Part 24 Subpart E - Personal Communication Services  
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in  
Licensed Radio Services

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

| Parameter              |                 | Uncertainty |
|------------------------|-----------------|-------------|
| Emissions,<br>Radiated | 30MHz - 1GHz    | 4.28dB      |
|                        | 1GHz - 18GHz    | 4.98dB      |
|                        | 18GHz - 26.5GHz | 5.06dB      |
| Temperature            |                 | 1°C         |
| Humidity               |                 | 6%          |
| Supply voltages        |                 | 0.4%        |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $K$  with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

### Equipment Modifications

No modification was made to the EUT.

### Support Equipment List and Details

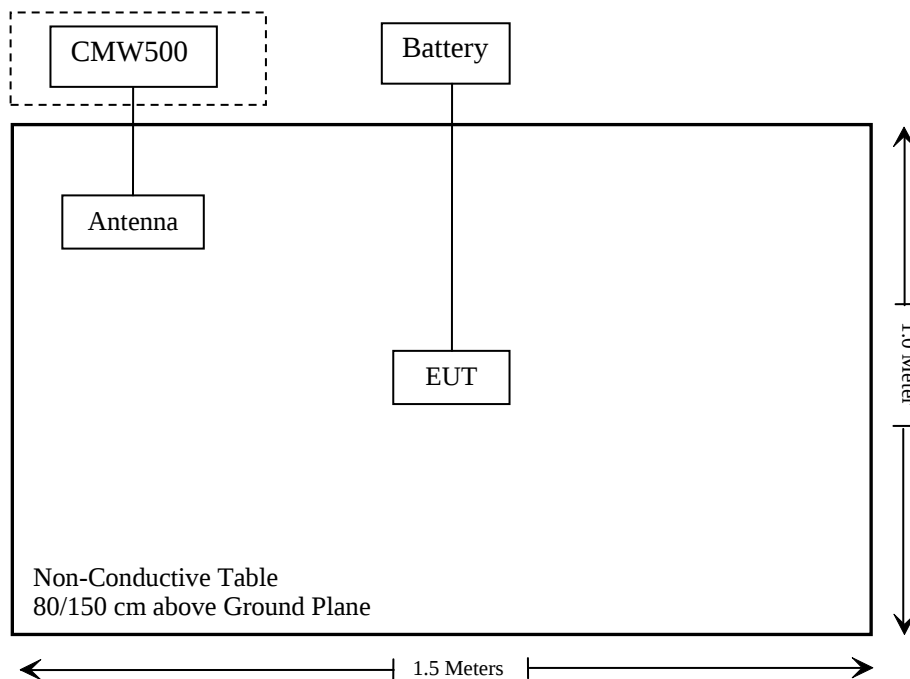
| Manufacturer    | Description                         | Model   | Serial Number |
|-----------------|-------------------------------------|---------|---------------|
| CHUANXI         | MAINTENA NCE-FREE BATTERY           | 6-QW-60 | 44H137574     |
| Rohde & Schwarz | Wideband Radio Communication Tester | CMW500  | 154606        |

### Support Cable Description

| Cable Description              | Length (m) | From / Port | To  |
|--------------------------------|------------|-------------|-----|
| Unshielded Detachable DC Cable | 1.0        | Battery     | EUT |

### Block Diagram of Test Setup

For radiated emission:



## SUMMARY OF TEST RESULTS

| FCC Rules                                                           | Description of Test                    | Result         |
|---------------------------------------------------------------------|----------------------------------------|----------------|
| §1.1310 & §2.1091                                                   | MAXIMUM PERMISSIBLE EXPOSURE (MPE)     | Compliant      |
| §2.1046; § 22.913 (a);<br>§ 24.232 (c); §27.50 (a) (b) (c) (d) (h); | RF Output Power                        | Compliant*     |
| § 2.1047                                                            | Modulation Characteristics             | Not Applicable |
| § 2.1049; § 22.905;<br>§ 22.917; § 24.238; §27.53                   | Occupied Bandwidth                     | Compliant*     |
| § 2.1051; § 22.917 (a);<br>§ 24.238 (a); §27.53;                    | Spurious Emissions at Antenna Terminal | Compliant*     |
| § 2.1053; § 22.917 (a);<br>§ 24.238 (a); §27.53                     | Field Strength of Spurious Radiation   | Compliant      |
| § 22.917 (a);<br>§ 24.238 (a); §27.53 (c) (h) (m)                   | Band Edge                              | Compliant*     |
| § 2.1055; § 22.355;<br>§ 24.235; §27.54;                            | Frequency stability                    | Compliant*     |

Compliance\*: The current device had been tested and verified the RF parameters consistently with the original device, please refer to the FCC report: RSH201124050-00B (FCC ID: 2AX63FF-CDP001-P2), which was issued by Bay Area Compliance Laboratories Corp. (Shenzhen) on 2021-02-22.

**TEST EQUIPMENT LIST**

| Manufacturer                  | Description                         | Model               | Serial Number      | Calibration Date | Calibration Due Date |
|-------------------------------|-------------------------------------|---------------------|--------------------|------------------|----------------------|
| <b>Radiated Emission Test</b> |                                     |                     |                    |                  |                      |
| Rohde & Schwarz               | Spectrum Analyzer                   | FSV-40              | 101495             | 2020/12/24       | 2021/12/23           |
| Rohde & Schwarz               | Wideband Radio Communication Tester | CMW500              | 154606             | 2020/12/25       | 2021/12/24           |
| Vector Signal Generator       | AGILENT                             | N5182A              | MY50143401         | 2020/12/25       | 2021/12/24           |
| V.R. of Signal Generators     | Anritsu                             | 68369B              | 004114             | 2021/07/31       | 2022/07/30           |
| Schwarzbeck                   | Horn Antenna                        | BBHA9120D           | 9120D-1067         | 2020/01/05       | 2023/01/04           |
| SCHWARZBECK                   | HORN ANTENNA                        | BBHA9120D           | 9120D-655          | 2020/01/05       | 2023/01/04           |
| Schwarzbeck                   | HORN ANTENNA                        | BBHA9170            | 9170-359           | 2020/01/05       | 2023/01/04           |
| Ducommun Technologies         | Horn antenna                        | ARH-4223-02         | 1007726-01<br>1304 | 2020/12/06       | 2023/12/05           |
| A.H. Systems, inc.            | Preamplifier                        | PAM-0118P           | 531                | 2021/07/08       | 2022/07/07           |
| Quinstar                      | Amplifier                           | QLW-184055<br>36-J0 | 15964001002        | 2020/11/28       | 2021/11/27           |
| Rohde& Schwarz                | Test Receiver                       | ESR                 | 101817             | 2020/12/24       | 2021/12/23           |
| SONOMA INSTRUMENT             | Amplifier                           | 310 N               | 186131             | 2020/12/25       | 2021/12/24           |
| Anritsu Corp                  | 50 Coaxial Switch                   | MP59B               | 6100237248         | 2020/12/25       | 2021/12/24           |
| Schwarzbeck                   | Bilog Antenna                       | VULB9163            | 9163-323           | 2020/01/05       | 2023/01/04           |
| Schwarzbeck                   | Bilog Antenna                       | VULB9163            | 9163-194           | 2020/01/05       | 2023/01/04           |
| RF Coaxial Cable              | Unknown                             | N-5m                | No.1               | 2020/12/25       | 2021/12/24           |
| RF Coaxial Cable              | Unknown                             | N-1m                | No.6               | 2020/12/25       | 2021/12/24           |
| RF Coaxial Cable              | Unknown                             | N-6m                | No.10              | 2020/12/25       | 2021/12/24           |
| RF Coaxial Cable              | Unknown                             | N-2m                | No.11              | 2020/12/25       | 2021/12/24           |
| RF Coaxial Cable              | Unknown                             | N-8m                | No.15              | 2020/12/25       | 2021/12/24           |

| Manufacturer                  | Description        | Model                   | Serial Number | Calibration Date | Calibration Due Date |
|-------------------------------|--------------------|-------------------------|---------------|------------------|----------------------|
| <b>Radiated Emission Test</b> |                    |                         |               |                  |                      |
| Unknown                       | Band Reject Filter | MSF1850-191<br>0MS-1148 | 201706003     | 2020/12/25       | 2021/12/24           |
| Unknown                       | Band Reject Filter | MSF1710-178<br>5MS-1150 | 201706003     | 2020/12/25       | 2021/12/24           |
| Unknown                       | Band Reject Filter | MSF824-862<br>MS-1147   | 201706003     | 2020/12/25       | 2021/12/24           |
| Unknown                       | Band Reject Filter | MSF700-800<br>MS-1153   | 201706003     | 2020/12/25       | 2021/12/24           |
| Unknown                       | High Pass Filter   | HPM-1.2/18G<br>-60      | 110           | 2020/12/25       | 2021/12/24           |

\* Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**FCC § 1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)****Applicable Standard**

According to subpart 1.1310 and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

**Limits for General Population/Uncontrolled Exposure**

| <b>Limits for General Population/Uncontrolled Exposure</b> |                                      |                                      |                                          |                                 |
|------------------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------|---------------------------------|
| <b>Frequency Range (MHz)</b>                               | <b>Electric Field Strength (V/m)</b> | <b>Magnetic Field Strength (A/m)</b> | <b>Power Density (mW/cm<sup>2</sup>)</b> | <b>Averaging Time (Minutes)</b> |
| 0.3-1.34                                                   | 614                                  | 1.63                                 | *(100)                                   | 30                              |
| 1.34-30                                                    | 824/f                                | 2.19/f                               | *(180/f <sup>2</sup> )                   | 30                              |
| 30-300                                                     | 27.5                                 | 0.073                                | 0.2                                      | 30                              |
| 300-1500                                                   | /                                    | /                                    | f/1500                                   | 30                              |
| 1500-100,000                                               | /                                    | /                                    | 1.0                                      | 30                              |

f = frequency in MHz

\* = Plane-wave equivalent power density

**Result****Calculated Formulary:**

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

| Mode         | Frequency | Antenna Gain |           | Tune up conducted power |       | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|--------------|-----------|--------------|-----------|-------------------------|-------|--------------------------|-------------------------------------|---------------------------------|
|              |           | (dBi)        | (numeric) | (dBm)                   | (mW)  |                          |                                     |                                 |
| BDR/EDR      | 2402-2480 | 5.0          | 3.16      | 7.0                     | 5.01  | 20                       | 0.003                               | 1                               |
| BLE          | 2402-2480 | 5.0          | 3.16      | 1.5                     | 1.41  | 20                       | 0.001                               | 1                               |
| Wi-Fi        | 2412-2462 | 5.0          | 3.16      | 16.5                    | 44.67 | 20                       | 0.028                               | 1                               |
| WCDMA Band 2 | 1850-1910 | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 1                               |
| WCDMA Band 4 | 1710-1755 | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 1                               |
| WCDMA Band 5 | 824-849   | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 0.549                           |
| LTE Band 2   | 1850-1910 | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 1                               |
| LTE Band 4   | 1710-1755 | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 1                               |
| LTE Band 5   | 824-849   | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 0.549                           |
| LTE Band 7   | 2500-2570 | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 1                               |
| LTE Band 12  | 699-716   | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 0.466                           |
| LTE Band 13  | 777-787   | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 0.518                           |
| LTE Band 17  | 704-716   | 0            | 1.0       | 23.0                    | 200   | 20                       | 0.040                               | 0.469                           |

Note: 1. the tune up conducted power was declared by the applicant  
 2. the Wi-Fi, WCDMA/LTE can transmit at the same time.

So the worst simultaneous transmitting consideration:

The ratio= $MPE_{Wi-Fi}/limit + MPE_{LTE}/limit = 0.028/1.0 + 0.040/0.466 = 0.114 < 1.0$

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

**Result: Compliant**

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## **FCC §2.1047 - MODULATION CHARACTERISTIC**

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According to FCC § 2.1047(d), Part 22H & 24E & 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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**FCC § 2.1053; § 22.917 (a); § 24.238 (a); § 27.53 - SPURIOUS RADIATED EMISSIONS**

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**Applicable Standard**

FCC § 2.1053, § 22.917(a) & § 24.238(a) & § 27.53.

**Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 28 °C     |
| <b>Relative Humidity:</b> | 50 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Ting Lü on 2021-10-26*

*EUT operation mode: Transmitting (Worst case record in the reports)*

*The worst case is as below:*

## Cellular Band (Part 22H)

30MHz – 10GHz:

| Frequency<br>(MHz)         | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Substituted<br>Factor<br>(dB/m) | Absolute<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|----------------------------|-------------------|--------|------------------------------|---------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
|                            | Reading<br>(dBuV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                                 |                               |                   |                |
| WCDMA Mode, Low channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -39.57            | PK     | 40                           | 1.9           | H              | -6.05                           | -45.62                        | -13               | 32.62          |
| 176.88                     | -49.27            | PK     | 234                          | 1.6           | V              | -2.64                           | -51.91                        | -13               | 38.91          |
| 1652.8                     | -50.88            | PK     | 211                          | 1.4           | H              | -2.32                           | -53.20                        | -13               | 40.20          |
| 1652.8                     | -52.67            | PK     | 332                          | 1.9           | V              | -2.29                           | -54.96                        | -13               | 41.96          |
| 2479.2                     | -54.51            | PK     | 143                          | 2.0           | H              | 1.21                            | -53.30                        | -13               | 40.30          |
| 2479.2                     | -53.98            | PK     | 47                           | 1.1           | V              | 1.24                            | -52.74                        | -13               | 39.74          |
| 3305.6                     | -51.51            | PK     | 63                           | 1.7           | H              | 3.25                            | -48.26                        | -13               | 35.26          |
| 3305.6                     | -52.41            | PK     | 53                           | 1.3           | V              | 3.26                            | -49.15                        | -13               | 36.15          |
| WCDMA Mode, Middle Channel |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -39.92            | PK     | 247                          | 1.0           | H              | -6.05                           | -45.97                        | -13               | 32.97          |
| 176.88                     | -48.81            | PK     | 304                          | 2.0           | V              | -2.64                           | -51.45                        | -13               | 38.45          |
| 1673.2                     | -51.28            | PK     | 53                           | 1.3           | H              | -2.34                           | -53.62                        | -13               | 40.62          |
| 1673.2                     | -52.19            | PK     | 313                          | 1.2           | V              | -2.31                           | -54.50                        | -13               | 41.50          |
| 2509.8                     | -54.67            | PK     | 26                           | 1.7           | H              | 1.35                            | -53.32                        | -13               | 40.32          |
| 2509.8                     | -55.08            | PK     | 269                          | 2.2           | V              | 1.39                            | -53.69                        | -13               | 40.69          |
| 3346.4                     | -51.05            | PK     | 47                           | 1.3           | H              | 3.31                            | -47.74                        | -13               | 34.74          |
| 3346.4                     | -52.27            | PK     | 47                           | 1.8           | V              | 3.3                             | -48.97                        | -13               | 35.97          |
| WCDMA Mode, High Channel   |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -38.20            | PK     | 9                            | 1.4           | H              | -6.05                           | -44.25                        | -13               | 31.25          |
| 176.88                     | -48.16            | PK     | 275                          | 1.1           | V              | -2.64                           | -50.80                        | -13               | 37.80          |
| 1693.2                     | -52.25            | PK     | 47                           | 1.8           | H              | -2.38                           | -54.63                        | -13               | 41.63          |
| 1693.2                     | -53.50            | PK     | 17                           | 1.5           | V              | -2.34                           | -55.84                        | -13               | 42.84          |
| 2539.8                     | -54.69            | PK     | 191                          | 2.2           | H              | 1.43                            | -53.26                        | -13               | 40.26          |
| 2539.8                     | -56.00            | PK     | 326                          | 1.8           | V              | 1.48                            | -54.52                        | -13               | 41.52          |
| 3386.4                     | -51.94            | PK     | 46                           | 1.8           | H              | 3.37                            | -48.57                        | -13               | 35.57          |
| 3386.4                     | -52.66            | PK     | 187                          | 2.1           | V              | 3.35                            | -49.31                        | -13               | 36.31          |

## PCS Band (Part 24E)

30MHz – 20GHz:

| Frequency<br>(MHz)         | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Substituted<br>Factor<br>(dB/m) | Absolute<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|----------------------------|-------------------|--------|------------------------------|---------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
|                            | Reading<br>(dBuV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                                 |                               |                   |                |
| WCDMA Mode, Low Channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -37.59            | PK     | 295                          | 1.8           | H              | -6.05                           | -43.64                        | -13               | 30.64          |
| 176.88                     | -47.06            | PK     | 197                          | 1.4           | V              | -2.64                           | -49.70                        | -13               | 36.70          |
| 3704.8                     | -49.53            | PK     | 31                           | 2.1           | H              | 4.75                            | -44.78                        | -13               | 31.78          |
| 3704.8                     | -53.49            | PK     | 79                           | 1.4           | V              | 4.62                            | -48.87                        | -13               | 35.87          |
| WCDMA Mode, Middle Channel |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -38.20            | PK     | 149                          | 2.1           | H              | -6.05                           | -44.25                        | -13               | 31.25          |
| 176.88                     | -48.18            | PK     | 21                           | 1.9           | V              | -2.64                           | -50.82                        | -13               | 37.82          |
| 3760                       | -49.90            | PK     | 317                          | 2.1           | H              | 4.94                            | -44.96                        | -13               | 31.96          |
| 3760                       | -53.10            | PK     | 16                           | 1.0           | V              | 4.85                            | -48.25                        | -13               | 35.25          |
| WCDMA Mode, High Channel   |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -39.15            | PK     | 155                          | 1.4           | H              | -6.05                           | -45.20                        | -13               | 32.20          |
| 176.88                     | -48.88            | PK     | 25                           | 2.0           | V              | -2.64                           | -51.52                        | -13               | 38.52          |
| 3815.2                     | -49.70            | PK     | 303                          | 2.2           | H              | 5.22                            | -44.48                        | -13               | 31.48          |
| 3815.2                     | -52.49            | PK     | 238                          | 1.2           | V              | 5.05                            | -47.44                        | -13               | 34.44          |

## AWS Band

30MHz – 20GHz:

| Frequency<br>(MHz)         | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Substituted<br>Factor<br>(dB/m) | Absolute<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|----------------------------|-------------------|--------|------------------------------|---------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
|                            | Reading<br>(dBuV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                                 |                               |                   |                |
| WCDMA Mode, Low Channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -40.01            | PK     | 129                          | 1.8           | H              | -6.05                           | -46.06                        | -13               | 33.06          |
| 176.88                     | -49.87            | PK     | 96                           | 1.3           | V              | -2.64                           | -52.51                        | -13               | 39.51          |
| 3424.8                     | -50.06            | PK     | 350                          | 1.3           | H              | 3.43                            | -46.63                        | -13               | 33.63          |
| 3424.8                     | -52.23            | PK     | 77                           | 1.8           | V              | 3.39                            | -48.84                        | -13               | 35.84          |
| WCDMA Mode, Middle Channel |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -39.54            | PK     | 92                           | 1.9           | H              | -6.05                           | -45.59                        | -13               | 32.59          |
| 176.88                     | -49.10            | PK     | 49                           | 1.3           | V              | -2.64                           | -51.74                        | -13               | 38.74          |
| 3456.2                     | -45.18            | PK     | 202                          | 1.8           | H              | -2.34                           | -47.52                        | -13               | 34.52          |
| 3456.2                     | -47.18            | PK     | 89                           | 1.8           | V              | -2.31                           | -49.49                        | -13               | 36.49          |
| WCDMA Mode, High Channel   |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                     | -40.05            | PK     | 41                           | 2.1           | H              | -6.05                           | -46.10                        | -13               | 33.10          |
| 176.88                     | -49.86            | PK     | 6                            | 2.0           | V              | -2.64                           | -52.50                        | -13               | 39.50          |
| 3505.2                     | -46.58            | PK     | 48                           | 1.7           | H              | -2.38                           | -48.96                        | -13               | 35.96          |
| 3505.2                     | -48.46            | PK     | 69                           | 1.3           | V              | -2.34                           | -50.80                        | -13               | 37.80          |

## LTE Band

| Frequency<br>(MHz)     | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Substituted<br>Factor<br>(dB/m) | Absolute<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|------------------------|-------------------|--------|------------------------------|---------------|----------------|---------------------------------|-------------------------------|-------------------|----------------|
|                        | Reading<br>(dBuV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                                 |                               |                   |                |
| 4G BAND2               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, Low Channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -38.21            | PK     | 348                          | 1.8           | H              | -6.05                           | -44.26                        | -13               | 31.26          |
| 176.88                 | -47.31            | PK     | 84                           | 1.7           | V              | -2.64                           | -49.95                        | -13               | 36.95          |
| 3701.4                 | -49.82            | PK     | 325                          | 1.1           | H              | 4.72                            | -45.10                        | -13               | 32.10          |
| 3701.4                 | -49.46            | PK     | 1                            | 1.8           | V              | 4.61                            | -44.85                        | -13               | 31.85          |
| 4G BAND2               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, Middle Channel |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -39.00            | PK     | 212                          | 1.1           | H              | -6.05                           | -45.05                        | -13               | 32.05          |
| 176.88                 | -48.20            | PK     | 23                           | 1.9           | V              | -2.64                           | -50.84                        | -13               | 37.84          |
| 3760                   | -51.14            | PK     | 320                          | 1.1           | H              | 4.94                            | -46.20                        | -13               | 33.20          |
| 3760                   | -51.56            | PK     | 354                          | 2.1           | V              | 4.85                            | -46.71                        | -13               | 33.71          |
| 4G BAND2               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, High Channel   |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -38.79            | PK     | 91                           | 1.9           | H              | -6.05                           | -44.84                        | -13               | 31.84          |
| 176.88                 | -47.76            | PK     | 8                            | 1.7           | V              | -2.64                           | -50.40                        | -13               | 37.40          |
| 3800                   | -52.10            | PK     | 307                          | 1.2           | H              | 5.25                            | -46.85                        | -13               | 33.85          |
| 3800                   | -52.65            | PK     | 136                          | 2.1           | V              | 5.16                            | -47.49                        | -13               | 34.49          |
| 4G BAND4               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, Low Channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -39.00            | PK     | 121                          | 2.1           | H              | -6.05                           | -45.05                        | -13               | 32.05          |
| 176.88                 | -48.55            | PK     | 56                           | 1.5           | V              | -2.64                           | -51.19                        | -13               | 38.19          |
| 3421.4                 | -48.47            | PK     | 29                           | 1.1           | H              | 2.72                            | -45.75                        | -13               | 32.75          |
| 3421.4                 | -47.02            | PK     | 296                          | 2.0           | V              | 2.59                            | -44.43                        | -13               | 31.43          |
| 4G BAND4               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, Middle Channel |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -39.04            | PK     | 278                          | 1.1           | H              | -6.05                           | -45.09                        | -13               | 32.09          |
| 176.88                 | -49.30            | PK     | 126                          | 1.9           | V              | -2.64                           | -51.94                        | -13               | 38.94          |
| 3465                   | -47.71            | PK     | 321                          | 2.0           | H              | 3.09                            | -44.62                        | -13               | 31.62          |
| 3465                   | -48.16            | PK     | 275                          | 1.7           | V              | 2.97                            | -45.19                        | -13               | 32.19          |
| 4G BAND4               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, High Channel   |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -40.23            | PK     | 80                           | 1.9           | H              | -6.05                           | -46.28                        | -13               | 33.28          |
| 176.88                 | -50.06            | PK     | 23                           | 1.7           | V              | -2.64                           | -52.70                        | -13               | 39.70          |
| 3508.6                 | -48.62            | PK     | 178                          | 1.5           | H              | 3.44                            | -45.18                        | -13               | 32.18          |
| 3508.6                 | -50.05            | PK     | 108                          | 1.9           | V              | 3.31                            | -46.74                        | -13               | 33.74          |
| 4G BAND5               |                   |        |                              |               |                |                                 |                               |                   |                |
| 1.4MHz, Low Channel    |                   |        |                              |               |                |                                 |                               |                   |                |
| 175.03                 | -39.58            | PK     | 8                            | 1.2           | H              | -6.05                           | -45.63                        | -13               | 32.63          |
| 176.88                 | -49.27            | PK     | 55                           | 1.4           | V              | -2.64                           | -51.91                        | -13               | 38.91          |

|                        |        |    |     |     |   |       |        |     |       |
|------------------------|--------|----|-----|-----|---|-------|--------|-----|-------|
| 1649.4                 | -51.83 | PK | 304 | 1.5 | H | -2.79 | -54.62 | -13 | 41.62 |
| 1649.4                 | -52.57 | PK | 11  | 1.0 | V | -2.73 | -55.30 | -13 | 42.30 |
| 2474.1                 | -50.54 | PK | 37  | 1.7 | H | 1.19  | -49.35 | -13 | 36.35 |
| 2474.1                 | -51.15 | PK | 198 | 2.0 | V | 1.21  | -49.94 | -13 | 36.94 |
| 3298.8                 | -51.44 | PK | 165 | 2.2 | H | 3.24  | -48.20 | -13 | 35.20 |
| 3298.8                 | -51.67 | PK | 65  | 1.6 | V | 3.25  | -48.42 | -13 | 35.42 |
| 4G BAND5               |        |    |     |     |   |       |        |     |       |
| 1.4MHz, Middle Channel |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.01 | PK | 191 | 1.7 | H | -6.05 | -46.06 | -13 | 33.06 |
| 176.88                 | -48.90 | PK | 305 | 1.1 | V | -2.64 | -51.54 | -13 | 38.54 |
| 1673                   | -52.79 | PK | 65  | 1.3 | H | -2.74 | -55.53 | -13 | 42.53 |
| 1673                   | -51.51 | PK | 24  | 1.6 | V | -2.69 | -54.20 | -13 | 41.20 |
| 2509.5                 | -49.95 | PK | 12  | 2.1 | H | 1.35  | -48.60 | -13 | 35.60 |
| 2509.5                 | -50.37 | PK | 27  | 2.2 | V | 1.39  | -48.98 | -13 | 35.98 |
| 3346                   | -52.72 | PK | 165 | 1.8 | H | 3.31  | -49.41 | -13 | 36.41 |
| 3346                   | -53.05 | PK | 44  | 1.7 | V | 3.3   | -49.75 | -13 | 36.75 |
| 4G BAND5               |        |    |     |     |   |       |        |     |       |
| 1.4MHz, High Channel   |        |    |     |     |   |       |        |     |       |
| 175.03                 | -39.51 | PK | 162 | 1.3 | H | -6.05 | -45.56 | -13 | 32.56 |
| 176.88                 | -47.85 | PK | 268 | 1.9 | V | -2.64 | -50.49 | -13 | 37.49 |
| 1696.6                 | -54.65 | PK | 44  | 1.7 | H | -2.7  | -57.35 | -13 | 44.35 |
| 1696.6                 | -54.06 | PK | 133 | 1.9 | V | -2.65 | -56.71 | -13 | 43.71 |
| 2544.9                 | -49.68 | PK | 216 | 1.5 | H | 1.45  | -48.23 | -13 | 35.23 |
| 2544.9                 | -50.52 | PK | 25  | 1.4 | V | 1.5   | -49.02 | -13 | 36.02 |
| 3393.2                 | -52.68 | PK | 54  | 1.9 | H | 3.38  | -49.30 | -13 | 36.30 |
| 3393.2                 | -53.08 | PK | 6   | 1.6 | V | 3.35  | -49.73 | -13 | 36.73 |
| 4G BAND7               |        |    |     |     |   |       |        |     |       |
| 5MHz, Low Channel      |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.01 | PK | 196 | 1.1 | H | -6.05 | -46.06 | -25 | 21.06 |
| 176.88                 | -48.59 | PK | 146 | 1.9 | V | -2.64 | -51.23 | -25 | 26.23 |
| 5005                   | -57.44 | PK | 145 | 1.8 | H | 8.82  | -48.62 | -25 | 23.62 |
| 5005                   | -55.12 | PK | 203 | 1.7 | V | 8.53  | -46.59 | -25 | 21.59 |
| 4G BAND7               |        |    |     |     |   |       |        |     |       |
| 5MHz, Middle Channel   |        |    |     |     |   |       |        |     |       |
| 175.03                 | -39.86 | PK | 127 | 1.7 | H | -6.05 | -45.91 | -25 | 20.91 |
| 176.88                 | -48.23 | PK | 276 | 1.7 | V | -2.64 | -50.87 | -25 | 25.87 |
| 5070                   | -56.78 | PK | 85  | 1.2 | H | 9.18  | -47.60 | -25 | 22.6  |
| 5070                   | -54.90 | PK | 126 | 2.0 | V | 8.56  | -46.34 | -25 | 21.34 |
| 4G BAND7               |        |    |     |     |   |       |        |     |       |
| 5MHz, High Channel     |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.03 | PK | 310 | 1.9 | H | -6.05 | -46.08 | -25 | 21.08 |
| 176.88                 | -49.27 | PK | 73  | 2.1 | V | -2.64 | -51.91 | -25 | 26.91 |
| 5135                   | -57.10 | PK | 220 | 1.0 | H | 9.47  | -47.63 | -25 | 22.63 |
| 5135                   | -55.14 | PK | 298 | 1.3 | V | 8.65  | -46.49 | -25 | 21.49 |
| 4G BAND12              |        |    |     |     |   |       |        |     |       |
| 1.4MHz, Low Channel    |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.14 | PK | 175 | 1.2 | H | -6.05 | -46.19 | -13 | 33.19 |

|                        |        |    |     |     |   |       |        |     |       |
|------------------------|--------|----|-----|-----|---|-------|--------|-----|-------|
| 176.88                 | -48.88 | PK | 178 | 1.4 | V | -2.64 | -51.52 | -13 | 38.52 |
| 1399.4                 | -59.59 | PK | 32  | 1.8 | H | -0.53 | -60.12 | -13 | 47.12 |
| 1399.4                 | -59.90 | PK | 19  | 1.9 | V | -0.74 | -60.64 | -13 | 47.64 |
| 2099.1                 | -41.39 | PK | 214 | 1.6 | H | -0.74 | -42.13 | -13 | 29.13 |
| 2099.1                 | -39.92 | PK | 12  | 1.1 | V | -0.98 | -40.90 | -13 | 27.90 |
| 2798.8                 | -56.70 | PK | 106 | 2.2 | H | 2.2   | -54.50 | -13 | 41.50 |
| 2798.8                 | -55.17 | PK | 132 | 1.6 | V | 2.3   | -52.87 | -13 | 39.87 |
| 4G BAND12              |        |    |     |     |   |       |        |     |       |
| 1.4MHz, Middle Channel |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.85 | PK | 218 | 1.7 | H | -6.05 | -46.90 | -13 | 33.90 |
| 176.88                 | -50.00 | PK | 248 | 1.4 | V | -2.64 | -52.64 | -13 | 39.64 |
| 1415                   | -54.94 | PK | 132 | 1.6 | H | -0.7  | -55.64 | -13 | 42.64 |
| 1415                   | -55.19 | PK | 247 | 1.2 | V | -0.9  | -56.09 | -13 | 43.09 |
| 2122.5                 | -41.41 | PK | 172 | 1.7 | H | -0.62 | -42.03 | -13 | 29.03 |
| 2122.5                 | -39.69 | PK | 82  | 2.1 | V | -0.85 | -40.54 | -13 | 27.54 |
| 2830                   | -54.37 | PK | 127 | 1.1 | H | 2.29  | -52.08 | -13 | 39.08 |
| 2830                   | -52.77 | PK | 216 | 2.0 | V | 2.4   | -50.37 | -13 | 37.37 |
| 4G BAND12              |        |    |     |     |   |       |        |     |       |
| 1.4MHz, High Channel   |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.36 | PK | 75  | 1.2 | H | -6.05 | -46.41 | -13 | 33.41 |
| 176.88                 | -48.55 | PK | 272 | 1.1 | V | -2.64 | -51.19 | -13 | 38.19 |
| 1430.6                 | -57.34 | PK | 216 | 2.0 | H | -0.85 | -58.19 | -13 | 45.19 |
| 1430.6                 | -57.56 | PK | 15  | 1.2 | V | -1.07 | -58.63 | -13 | 45.63 |
| 2145.9                 | -41.70 | PK | 166 | 1.0 | H | -0.5  | -42.20 | -13 | 29.20 |
| 2145.9                 | -41.00 | PK | 336 | 1.3 | V | -0.71 | -41.71 | -13 | 28.71 |
| 2861.2                 | -54.43 | PK | 59  | 2.1 | H | 2.38  | -52.05 | -13 | 39.05 |
| 2861.2                 | -55.76 | PK | 145 | 1.8 | V | 2.49  | -53.27 | -13 | 40.27 |
| 4G BAND13              |        |    |     |     |   |       |        |     |       |
| 5MHz, Low Channel      |        |    |     |     |   |       |        |     |       |
| 175.03                 | -39.12 | PK | 104 | 2.1 | H | -6.05 | -45.17 | -13 | 32.17 |
| 176.88                 | -47.76 | PK | 171 | 1.8 | V | -2.64 | -50.40 | -13 | 37.40 |
| 1559                   | -55.89 | PK | 244 | 1.4 | H | -2.34 | -58.23 | -40 | 18.23 |
| 1559                   | -54.07 | PK | 123 | 1.6 | V | -2.45 | -56.52 | -40 | 16.52 |
| 2338.5                 | -46.61 | PK | 286 | 1.1 | H | 0.49  | -46.12 | -13 | 33.12 |
| 2338.5                 | -44.87 | PK | 61  | 1.5 | V | 0.41  | -44.46 | -13 | 31.46 |
| 3118                   | -52.27 | PK | 172 | 1.2 | H | 2.97  | -49.30 | -13 | 36.30 |
| 3118                   | -52.98 | PK | 203 | 1.7 | V | 3.06  | -49.92 | -13 | 36.92 |
| 4G BAND13              |        |    |     |     |   |       |        |     |       |
| 5MHz, Middle Channel   |        |    |     |     |   |       |        |     |       |
| 175.03                 | -40.04 | PK | 321 | 2.1 | H | -6.05 | -46.09 | -13 | 33.09 |
| 176.88                 | -48.53 | PK | 323 | 2.1 | V | -2.64 | -51.17 | -13 | 38.17 |
| 1564                   | -56.57 | PK | 296 | 1.8 | H | -2.4  | -58.97 | -40 | 18.97 |
| 1564                   | -53.60 | PK | 189 | 1.2 | V | -2.5  | -56.10 | -40 | 16.10 |
| 2346                   | -47.37 | PK | 146 | 1.3 | H | 0.53  | -46.84 | -13 | 33.84 |
| 2346                   | -43.59 | PK | 137 | 1.9 | V | 0.46  | -43.13 | -13 | 30.13 |
| 3128                   | -52.23 | PK | 166 | 1.2 | H | 2.98  | -49.25 | -13 | 36.25 |
| 3128                   | -52.87 | PK | 126 | 1.2 | V | 3.07  | -49.80 | -13 | 36.80 |

| 4G BAND13               |        |    |     |     |   |       |        |     |       |
|-------------------------|--------|----|-----|-----|---|-------|--------|-----|-------|
| 5MHz, High Channel      |        |    |     |     |   |       |        |     |       |
| 175.03                  | -41.05 | PK | 29  | 2.0 | H | -6.05 | -47.10 | -13 | 34.10 |
| 176.88                  | -49.97 | PK | 51  | 2.1 | V | -2.64 | -52.61 | -13 | 39.61 |
| 1569                    | -54.77 | PK | 83  | 1.5 | H | -2.46 | -57.23 | -40 | 17.23 |
| 1569                    | -54.35 | PK | 254 | 1.1 | V | -2.56 | -56.91 | -40 | 16.91 |
| 2353.5                  | -45.96 | PK | 267 | 1.2 | H | 0.56  | -45.40 | -13 | 32.40 |
| 2353.5                  | -43.65 | PK | 282 | 2.1 | V | 0.5   | -43.15 | -13 | 30.15 |
| 3138                    | -52.59 | PK | 353 | 1.9 | H | 3     | -49.59 | -13 | 36.59 |
| 3138                    | -53.07 | PK | 145 | 1.2 | V | 3.08  | -49.99 | -13 | 36.99 |
| 4G BAND17, Low Channel  |        |    |     |     |   |       |        |     |       |
| 5MHz, Low Channel       |        |    |     |     |   |       |        |     |       |
| 175.03                  | -41.26 | PK | 154 | 1.8 | H | -6.05 | -47.31 | -13 | 34.31 |
| 176.88                  | -50.19 | PK | 128 | 1.5 | V | -2.64 | -52.83 | -13 | 39.83 |
| 1413                    | -58.70 | PK | 145 | 1.8 | H | -0.65 | -59.35 | -13 | 46.35 |
| 1413                    | -57.85 | PK | 255 | 1.2 | V | -0.87 | -58.72 | -13 | 45.72 |
| 2119.5                  | -47.53 | PK | 281 | 2.1 | H | -0.67 | -48.20 | -13 | 35.20 |
| 2119.5                  | -46.29 | PK | 127 | 1.9 | V | -0.87 | -47.16 | -13 | 34.16 |
| 2826                    | -54.19 | PK | 37  | 1.4 | H | 2.28  | -51.91 | -13 | 38.91 |
| 2826                    | -52.97 | PK | 59  | 2.1 | V | 2.38  | -50.59 | -13 | 37.59 |
| 4G BAND17               |        |    |     |     |   |       |        |     |       |
| 5MHz, Middle Channel    |        |    |     |     |   |       |        |     |       |
| 175.03                  | -40.73 | PK | 58  | 2.2 | H | -6.05 | -46.78 | -13 | 33.78 |
| 176.88                  | -48.82 | PK | 169 | 2.0 | V | -2.64 | -51.46 | -13 | 38.46 |
| 1420                    | -55.95 | PK | 59  | 2.1 | H | -0.67 | -56.62 | -13 | 43.62 |
| 1420                    | -54.45 | PK | 233 | 1.8 | V | -0.91 | -55.36 | -13 | 42.36 |
| 2130                    | -47.43 | PK | 189 | 2.1 | H | -0.58 | -48.01 | -13 | 35.01 |
| 2130                    | -45.38 | PK | 185 | 1.4 | V | -0.8  | -46.18 | -13 | 33.18 |
| 2840                    | -53.95 | PK | 59  | 1.0 | H | 2.32  | -51.63 | -13 | 38.63 |
| 2840                    | -52.63 | PK | 233 | 1.8 | V | 2.43  | -50.20 | -13 | 37.20 |
| 4G BAND17, High Channel |        |    |     |     |   |       |        |     |       |
| 5MHz, High Channel      |        |    |     |     |   |       |        |     |       |
| 175.03                  | -39.63 | PK | 109 | 1.8 | H | -6.05 | -45.68 | -13 | 32.68 |
| 176.88                  | -47.87 | PK | 19  | 1.2 | V | -2.64 | -50.51 | -13 | 37.51 |
| 1427                    | -60.00 | PK | 119 | 1.9 | H | -0.71 | -60.71 | -13 | 47.71 |
| 1427                    | -58.45 | PK | 21  | 1.1 | V | -0.94 | -59.39 | -13 | 46.39 |
| 2140.5                  | -45.73 | PK | 271 | 1.8 | H | -0.53 | -46.26 | -13 | 33.26 |
| 2140.5                  | -45.93 | PK | 105 | 1.9 | V | -0.74 | -46.67 | -13 | 33.67 |
| 2854                    | -53.49 | PK | 256 | 1.3 | H | 2.36  | -51.13 | -13 | 38.13 |
| 2854                    | -53.27 | PK | 127 | 1.1 | V | 2.47  | -50.80 | -13 | 37.80 |

**Note:**

Absolute Level = Reading Level + Substituted Factor

Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Limit - Absolute Level

**\*\*\*\*\* END OF REPORT \*\*\*\*\***