

Appendix D. Output Power Measurement

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.
4. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
5. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Factor to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

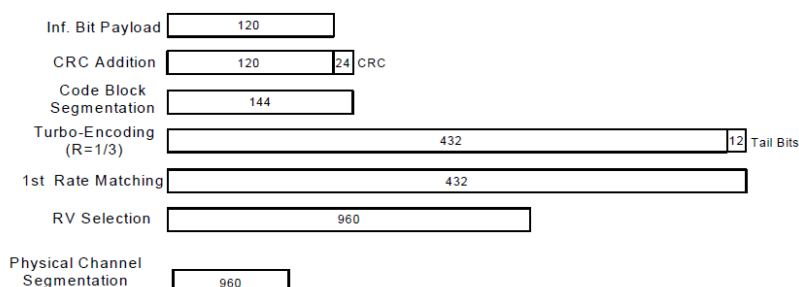


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<LTE Conducted Power>**General Note:**

1. A Base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.

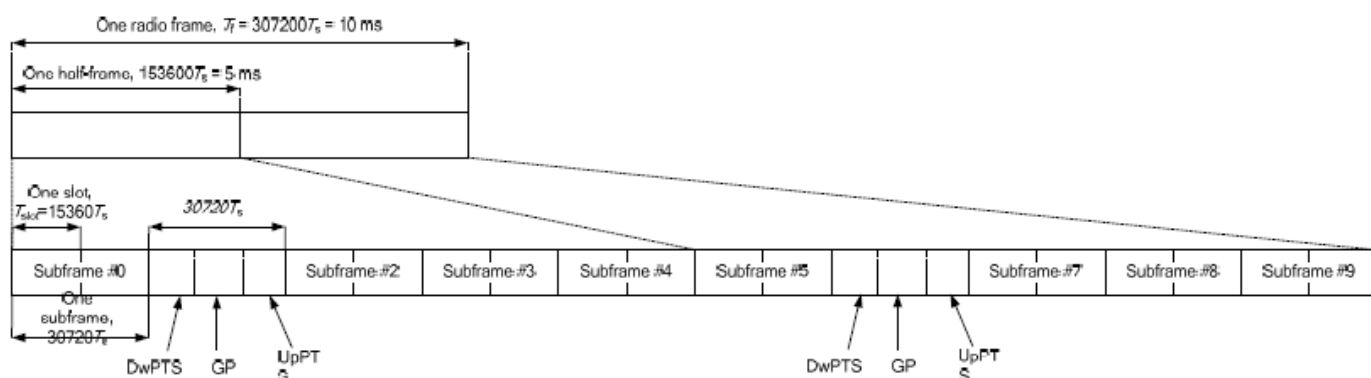


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.

<5G NR Note>

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD Power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

<3GPP 38.101 MPR for EN-DC>
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3	≤ 1.5	
	16 QAM	≤ 3	≤ 2	
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		
NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.				
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.				

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

**<WLAN Note>**

1. The SISO operation only operate in 2.4GHz WLAN, the MIMO operation is support in 2.4GHz / 5GHz / 6GHz WLAN
2. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
7. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
10. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

<Bluetooth>

For 2.4GHz Bluetooth SAR testing was selected ER/EDR 1Mbps due to its highest average power and duty cycle list below are considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation, for the duty cycle figure and output



FCC SAR TEST REPORT

Report No. : FA4O2228B

Band		WCDMA II_Ant 1_DSI 0			Tune-up Limit (dBm)	WCDMA IV_Ant 1_DSI 0			Tune-up Limit (dBm)	WCDMA V_Ant 1_DSI 0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.85	23.59	23.75	24.50	24.22	24.05	24.56	25.00	24.23	24.32	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	22.57	22.64	22.59	23.50	23.11	23.04	23.51	24.00	23.16	22.92	23.28	24.00
3GPP Rel 6	HSDPA Subtest-2	22.52	22.61	22.54	23.50	23.13	23.04	23.51	24.00	23.13	22.91	23.24	24.00
3GPP Rel 6	HSDPA Subtest-3	22.02	22.08	22.01	23.00	22.61	22.53	23.01	23.50	22.72	22.40	22.79	23.50
3GPP Rel 6	HSDPA Subtest-4	21.98	22.07	21.99	23.00	22.68	22.54	23.00	23.50	22.68	22.42	22.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.47	22.59	22.51	24.00	23.15	23.04	23.47	24.00	23.24	22.92	23.25	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.46	22.51	22.48	24.00	23.14	23.04	23.54	24.00	23.11	22.87	23.23	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.96	22.00	21.93	23.50	22.67	22.53	23.01	23.50	22.59	22.36	22.74	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.90	22.00	21.94	23.50	22.69	22.54	22.99	23.50	22.63	22.33	22.65	23.50
3GPP Rel 6	HSUPA Subtest-1	22.01	22.08	22.00	24.00	22.64	22.51	22.98	24.00	22.66	22.41	22.79	24.00
3GPP Rel 6	HSUPA Subtest-2	20.49	20.58	20.50	22.00	21.13	21.05	21.49	22.00	21.23	20.92	21.27	22.00
3GPP Rel 6	HSUPA Subtest-3	21.47	21.57	21.49	23.00	22.18	22.01	22.43	23.00	22.22	21.91	22.25	23.00
3GPP Rel 6	HSUPA Subtest-4	20.48	20.58	20.51	22.00	21.12	21.03	21.45	22.00	21.24	20.92	21.25	22.00
3GPP Rel 6	HSUPA Subtest-5	22.51	22.58	22.49	24.00	23.20	23.03	23.53	24.00	23.23	22.92	23.26	24.00

Band		WCDMA II_Ant 1_DSI 1 (WLAN OFF)			Tune-up Limit (dBm)	WCDMA IV_Ant 1_DSI 1 (WLAN OFF)			Tune-up Limit (dBm)	WCDMA V_Ant 1_DSI 1 (WLAN OFF)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.45	23.20	23.50	23.90	23.05	22.70	23.10	23.30	24.23	24.32	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	22.43	22.20	22.67	22.90	21.95	21.66	22.11	22.20	23.16	22.92	23.28	24.00
3GPP Rel 6	HSDPA Subtest-2	22.39	22.18	22.55	22.90	21.91	21.64	22.08	22.20	23.13	22.91	23.24	24.00
3GPP Rel 6	HSDPA Subtest-3	21.98	21.67	22.06	22.40	21.46	21.13	21.60	21.70	22.72	22.40	22.79	23.50
3GPP Rel 6	HSDPA Subtest-4	21.87	21.68	22.02	22.40	21.39	21.13	21.51	21.70	22.68	22.42	22.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.33	22.10	22.59	22.90	21.92	21.57	22.08	22.30	23.24	22.92	23.25	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.39	22.09	22.54	22.90	21.91	21.62	21.98	22.30	23.11	22.87	23.23	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.88	21.61	22.01	22.40	21.46	21.05	21.53	21.80	22.59	22.36	22.74	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.78	21.68	21.93	22.40	21.37	21.11	21.43	21.80	22.63	22.33	22.65	23.50
3GPP Rel 6	HSUPA Subtest-1	22.33	22.17	22.53	22.90	21.89	21.60	22.13	22.30	22.66	22.41	22.79	24.00
3GPP Rel 6	HSUPA Subtest-2	20.40	20.18	20.49	20.90	19.93	19.60	20.09	20.30	21.23	20.92	21.27	22.00
3GPP Rel 6	HSUPA Subtest-3	21.31	21.18	21.38	21.90	20.94	20.61	21.18	21.30	22.22	21.91	22.25	23.00
3GPP Rel 6	HSUPA Subtest-4	20.28	20.20	20.37	20.90	19.86	19.62	20.11	20.30	21.24	20.92	21.25	22.00
3GPP Rel 6	HSUPA Subtest-5	22.27	22.19	22.46	22.90	21.88	21.64	22.15	22.30	23.23	22.92	23.26	24.00



Band		WCDMA II_Ant 1_DSI 1 (WLAN ON)			Tune-up Limit (dBm)	WCDMA IV_Ant 1_DSI 1 (WLAN ON)			Tune-up Limit (dBm)	WCDMA V_Ant 1_DSI 1 (WLAN ON)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.40	20.29	20.41	21.00	20.11	19.70	20.11	20.50	22.42	22.45	22.40	23.00
3GPP Rel 6	HSDPA Subtest-1	19.51	19.31	19.38	20.00	18.92	18.64	19.12	19.50	21.39	21.01	21.36	22.00
3GPP Rel 6	HSDPA Subtest-2	19.51	19.27	19.39	20.00	18.65	18.69	19.13	19.50	21.39	21.06	21.45	22.00
3GPP Rel 6	HSDPA Subtest-3	19.02	18.77	18.89	19.50	18.41	18.21	18.65	19.00	20.89	20.51	20.84	21.50
3GPP Rel 6	HSDPA Subtest-4	19.02	18.79	18.91	19.50	18.41	18.17	18.63	19.00	20.86	20.52	20.90	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.43	19.26	19.28	20.00	18.85	18.54	19.03	19.50	21.33	20.92	21.26	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.42	19.18	19.29	20.00	18.58	18.63	19.06	19.50	21.34	20.98	21.39	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.92	18.71	18.80	19.50	18.32	18.16	18.58	19.00	20.80	20.41	20.79	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.95	18.70	18.85	19.50	18.36	18.08	18.55	19.00	20.79	20.47	20.83	21.50
3GPP Rel 6	HSUPA Subtest-1	19.52	19.34	19.40	20.00	18.90	18.64	19.15	19.50	21.34	20.99	21.39	22.00
3GPP Rel 6	HSUPA Subtest-2	17.43	17.30	17.50	18.00	16.83	16.68	17.14	17.50	19.39	19.00	19.32	20.00
3GPP Rel 6	HSUPA Subtest-3	18.51	18.29	18.39	19.00	17.88	17.71	18.10	18.50	20.36	20.00	20.38	21.00
3GPP Rel 6	HSUPA Subtest-4	17.53	17.29	17.41	18.00	16.87	16.70	17.14	17.50	19.30	18.95	19.28	20.00
3GPP Rel 6	HSUPA Subtest-5	19.50	19.30	19.40	20.00	18.90	18.70	19.10	19.50	21.30	21.00	21.40	22.00

Band		WCDMA II_Ant 1_DSI 3			Tune-up Limit (dBm)	WCDMA IV_Ant 1_DSI 3			Tune-up Limit (dBm)	WCDMA V_Ant 1_DSI 3			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.40	20.29	20.41	21.00	20.11	19.70	20.11	20.50	22.42	22.45	22.40	23.00
3GPP Rel 6	HSDPA Subtest-1	19.51	19.31	19.38	20.00	18.92	18.64	19.12	19.50	21.39	21.01	21.36	22.00
3GPP Rel 6	HSDPA Subtest-2	19.51	19.27	19.39	20.00	18.65	18.69	19.13	19.50	21.39	21.06	21.45	22.00
3GPP Rel 6	HSDPA Subtest-3	19.02	18.77	18.89	19.50	18.41	18.21	18.65	19.00	20.89	20.51	20.84	21.50
3GPP Rel 6	HSDPA Subtest-4	19.02	18.79	18.91	19.50	18.41	18.17	18.63	19.00	20.86	20.52	20.90	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.43	19.26	19.28	20.00	18.85	18.54	19.03	19.50	21.33	20.92	21.26	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.42	19.18	19.29	20.00	18.58	18.63	19.06	19.50	21.34	20.98	21.39	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.92	18.71	18.80	19.50	18.32	18.16	18.58	19.00	20.80	20.41	20.79	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.95	18.70	18.85	19.50	18.36	18.08	18.55	19.00	20.79	20.47	20.83	21.50
3GPP Rel 6	HSUPA Subtest-1	19.52	19.34	19.40	20.00	18.90	18.64	19.15	19.50	21.34	20.99	21.39	22.00
3GPP Rel 6	HSUPA Subtest-2	17.43	17.30	17.50	18.00	16.83	16.68	17.14	17.50	19.39	19.00	19.32	20.00
3GPP Rel 6	HSUPA Subtest-3	18.51	18.29	18.39	19.00	17.88	17.71	18.10	18.50	20.36	20.00	20.38	21.00
3GPP Rel 6	HSUPA Subtest-4	17.53	17.29	17.41	18.00	16.87	16.70	17.14	17.50	19.30	18.95	19.28	20.00
3GPP Rel 6	HSUPA Subtest-5	19.50	19.30	19.40	20.00	18.90	18.70	19.10	19.50	21.30	21.00	21.40	22.00



<LTE Band 2_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	25.47	25.48	25.29	25.7
20	QPSK	1	49	25.45	25.43	25.25	
20	QPSK	1	99	25.40	25.37	25.21	
20	QPSK	50	0	24.60	24.63	24.41	24.7
20	QPSK	50	24	24.55	24.57	24.42	
20	QPSK	50	50	24.52	24.53	24.40	
20	QPSK	100	0	24.54	24.60	24.39	
20	16QAM	1	0	24.48	24.70	24.56	24.7
20	16QAM	1	49	24.37	24.65	24.64	
20	16QAM	1	99	24.37	24.53	24.48	
20	16QAM	50	0	23.67	23.45	23.41	23.7
20	16QAM	50	24	23.65	23.47	23.39	
20	16QAM	50	50	23.52	23.43	23.38	
20	16QAM	100	0	23.61	23.41	23.40	
20	64QAM	1	0	23.70	23.47	23.61	23.7
20	64QAM	1	49	23.65	23.67	23.57	
20	64QAM	1	99	23.66	23.51	23.52	
20	64QAM	50	0	22.66	22.47	22.40	22.7
20	64QAM	50	24	22.62	22.46	22.40	
20	64QAM	50	50	22.53	22.42	22.38	
20	64QAM	100	0	22.60	22.42	22.36	
20	256QAM	1	0	20.66	20.69	20.40	20.7
20	256QAM	1	49	20.53	20.63	20.42	
20	256QAM	1	99	20.60	20.65	20.43	
20	256QAM	50	0	20.50	20.57	20.33	20.7
20	256QAM	50	24	20.54	20.58	20.37	
20	256QAM	50	50	20.49	20.55	20.32	
20	256QAM	100	0	20.50	20.55	20.31	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	25.46	25.47	25.16	25.7
15	QPSK	1	37	25.45	25.24	25.18	
15	QPSK	1	74	25.31	25.30	25.18	
15	QPSK	36	0	24.52	24.52	24.33	24.7
15	QPSK	36	20	24.48	24.53	24.31	
15	QPSK	36	39	24.50	24.37	24.40	
15	QPSK	75	0	24.52	24.54	24.29	
15	16QAM	1	0	24.28	24.54	24.48	24.7
15	16QAM	1	37	24.25	24.45	24.47	
15	16QAM	1	74	24.26	24.41	24.28	
15	16QAM	36	0	23.63	23.31	23.41	23.7
15	16QAM	36	20	23.63	23.34	23.33	
15	16QAM	36	39	23.51	23.23	23.24	
15	16QAM	75	0	23.57	23.22	23.26	
15	64QAM	1	0	23.69	23.27	23.58	23.7
15	64QAM	1	37	23.57	23.47	23.50	
15	64QAM	1	74	23.49	23.34	23.45	
15	64QAM	36	0	22.49	22.39	22.33	22.7
15	64QAM	36	20	22.48	22.28	22.38	
15	64QAM	36	39	22.41	22.36	22.22	
15	64QAM	75	0	22.54	22.30	22.29	
15	256QAM	1	0	20.61	20.51	20.32	20.7
15	256QAM	1	37	20.52	20.48	20.35	
15	256QAM	1	74	20.40	20.59	20.43	
15	256QAM	36	0	20.36	20.43	20.27	20.7
15	256QAM	36	20	20.52	20.58	20.18	



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15	256QAM	36	39	20.33	20.48	20.15	
15	256QAM	75	0	20.48	20.35	20.16	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	25.39	25.41	25.19	25.7
10	QPSK	1	25	25.33	25.33	25.24	
10	QPSK	1	49	25.35	25.22	25.15	
10	QPSK	25	0	24.41	24.45	24.36	24.7
10	QPSK	25	12	24.45	24.41	24.23	
10	QPSK	25	25	24.32	24.35	24.38	
10	QPSK	50	0	24.40	24.44	24.36	
10	16QAM	1	0	24.35	24.60	24.44	24.7
10	16QAM	1	25	24.32	24.62	24.64	
10	16QAM	1	49	24.25	24.49	24.32	
10	16QAM	25	0	23.58	23.40	23.29	23.7
10	16QAM	25	12	23.51	23.42	23.19	
10	16QAM	25	25	23.47	23.26	23.35	
10	16QAM	50	0	23.47	23.32	23.36	
10	64QAM	1	0	23.59	23.33	23.57	23.7
10	64QAM	1	25	23.58	23.63	23.41	
10	64QAM	1	49	23.46	23.32	23.33	
10	64QAM	25	0	22.49	22.41	22.22	22.7
10	64QAM	25	12	22.61	22.30	22.25	
10	64QAM	25	25	22.50	22.25	22.18	
10	64QAM	50	0	22.47	22.40	22.18	
10	256QAM	1	0	20.61	20.54	20.21	20.7
10	256QAM	1	25	20.49	20.63	20.24	
10	256QAM	1	49	20.57	20.46	20.43	
10	256QAM	25	0	20.37	20.45	20.32	20.7
10	256QAM	25	12	20.45	20.50	20.32	
10	256QAM	25	25	20.37	20.46	20.25	
10	256QAM	50	0	20.37	20.36	20.16	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	25.32	25.40	25.15	25.7
5	QPSK	1	12	25.25	25.39	25.21	
5	QPSK	1	24	25.20	25.25	25.21	
5	QPSK	12	0	24.60	24.43	24.30	24.7
5	QPSK	12	7	24.37	24.52	24.42	
5	QPSK	12	13	24.50	24.47	24.32	
5	QPSK	25	0	24.53	24.50	24.37	
5	16QAM	1	0	24.43	24.58	24.37	24.7
5	16QAM	1	12	24.37	24.59	24.55	
5	16QAM	1	24	24.25	24.33	24.37	
5	16QAM	12	0	23.67	23.37	23.21	23.7
5	16QAM	12	7	23.47	23.28	23.28	
5	16QAM	12	13	23.48	23.32	23.22	
5	16QAM	25	0	23.57	23.27	23.26	
5	64QAM	1	0	23.51	23.47	23.44	23.7
5	64QAM	1	12	23.46	23.50	23.45	
5	64QAM	1	24	23.65	23.40	23.52	
5	64QAM	12	0	22.46	22.29	22.28	22.7
5	64QAM	12	7	22.45	22.44	22.38	
5	64QAM	12	13	22.51	22.31	22.26	
5	64QAM	25	0	22.49	22.33	22.29	
5	256QAM	1	0	20.54	20.63	20.27	20.7
5	256QAM	1	12	20.48	20.55	20.35	
5	256QAM	1	24	20.51	20.48	20.32	
5	256QAM	12	0	20.49	20.43	20.19	20.7
5	256QAM	12	7	20.43	20.54	20.20	
5	256QAM	12	13	20.40	20.39	20.13	
5	256QAM	25	0	20.49	20.36	20.22	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	25.28	25.47	25.15	25.7
3	QPSK	1	8	25.33	25.37	25.24	
3	QPSK	1	14	25.38	25.18	25.08	
3	QPSK	8	0	24.57	24.43	24.25	24.7
3	QPSK	8	4	24.53	24.52	24.38	
3	QPSK	8	7	24.36	24.40	24.24	
3	QPSK	15	0	24.52	24.47	24.25	
3	16QAM	1	0	24.31	24.64	24.44	24.7
3	16QAM	1	8	24.24	24.61	24.62	
3	16QAM	1	14	24.26	24.45	24.44	
3	16QAM	8	0	23.64	23.36	23.28	23.7
3	16QAM	8	4	23.57	23.46	23.29	
3	16QAM	8	7	23.45	23.29	23.26	
3	16QAM	15	0	23.59	23.32	23.33	
3	64QAM	1	0	23.57	23.27	23.61	23.7
3	64QAM	1	8	23.57	23.59	23.47	
3	64QAM	1	14	23.56	23.34	23.33	
3	64QAM	8	0	22.63	22.44	22.36	22.7
3	64QAM	8	4	22.54	22.38	22.25	
3	64QAM	8	7	22.41	22.32	22.26	
3	64QAM	15	0	22.59	22.26	22.26	
3	256QAM	1	0	20.52	20.54	20.21	20.7
3	256QAM	1	8	20.36	20.47	20.35	
3	256QAM	1	14	20.53	20.58	20.36	
3	256QAM	8	0	20.36	20.41	20.14	20.7
3	256QAM	8	4	20.54	20.58	20.30	
3	256QAM	8	7	20.30	20.51	20.28	
3	256QAM	15	0	20.32	20.39	20.12	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	25.46	25.36	25.29	25.7
1.4	QPSK	1	3	25.35	25.32	25.24	
1.4	QPSK	1	5	25.35	25.34	25.05	
1.4	QPSK	3	0	25.37	25.45	25.24	
1.4	QPSK	3	1	25.25	25.43	25.12	
1.4	QPSK	3	3	25.27	25.33	25.17	
1.4	QPSK	6	0	24.40	24.63	24.30	24.7
1.4	16QAM	1	0	24.54	24.43	24.39	24.7
1.4	16QAM	1	3	24.38	24.48	24.30	
1.4	16QAM	1	5	24.41	24.52	24.40	
1.4	16QAM	3	0	24.54	24.54	24.35	
1.4	16QAM	3	1	24.36	24.38	24.41	
1.4	16QAM	3	3	24.49	24.41	24.21	23.7
1.4	16QAM	6	0	23.53	23.36	23.38	
1.4	64QAM	1	0	23.61	23.28	23.23	23.7
1.4	64QAM	1	3	23.59	23.37	23.29	
1.4	64QAM	1	5	23.49	23.40	23.21	
1.4	64QAM	3	0	23.65	23.30	23.30	
1.4	64QAM	3	1	23.63	23.33	23.37	
1.4	64QAM	3	3	23.41	23.25	23.35	22.7
1.4	64QAM	6	0	22.38	22.37	22.38	
1.4	256QAM	1	0	20.62	20.66	20.20	20.7
1.4	256QAM	1	3	20.41	20.44	20.35	
1.4	256QAM	1	5	20.40	20.48	20.39	
1.4	256QAM	3	0	20.33	20.49	20.17	
1.4	256QAM	3	1	20.34	20.47	20.34	
1.4	256QAM	3	3	20.34	20.37	20.18	20.7
1.4	256QAM	6	0	20.40	20.54	20.21	



<LTE Band 2_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.58	24.42	24.32	
20	QPSK	1	49	24.35	24.14	24.09	24.7
20	QPSK	1	99	24.19	24.07	24.01	
20	QPSK	50	0	23.46	23.31	23.18	
20	QPSK	50	24	23.42	23.28	23.20	23.7
20	QPSK	50	50	23.32	23.25	23.17	
20	QPSK	100	0	23.41	23.27	23.18	
20	16QAM	1	0	23.55	23.56	23.40	23.7
20	16QAM	1	49	23.51	23.58	23.46	
20	16QAM	1	99	23.53	23.30	23.40	
20	16QAM	50	0	22.45	22.28	22.18	22.7
20	16QAM	50	24	22.44	22.27	22.17	
20	16QAM	50	50	22.30	22.20	22.16	
20	16QAM	100	0	22.39	22.23	22.15	22.7
20	64QAM	1	0	22.40	22.42	22.40	
20	64QAM	1	49	22.59	22.49	22.28	
20	64QAM	1	99	22.40	22.30	22.25	21.7
20	64QAM	50	0	21.46	21.27	21.18	
20	64QAM	50	24	21.44	21.27	21.18	
20	64QAM	50	50	21.31	21.24	21.17	19.7
20	64QAM	100	0	21.43	21.24	21.17	
20	256QAM	1	0	19.60	19.48	19.50	
20	256QAM	1	49	19.46	19.36	19.34	19.7
20	256QAM	1	99	19.44	19.47	19.43	
20	256QAM	50	0	19.49	19.43	19.38	
20	256QAM	50	24	19.44	19.41	19.46	19.7
20	256QAM	50	50	19.42	19.39	19.34	
20	256QAM	100	0	19.48	19.42	19.44	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.54	24.46	24.33	
15	QPSK	1	37	24.38	24.15	24.10	24.7
15	QPSK	1	74	24.25	24.11	24.02	
15	QPSK	36	0	23.52	23.30	23.22	23.7
15	QPSK	36	20	23.43	23.30	23.18	
15	QPSK	36	39	23.36	23.30	23.19	
15	QPSK	75	0	23.47	23.27	23.24	23.7
15	16QAM	1	0	23.58	23.54	23.40	
15	16QAM	1	37	23.51	23.57	23.52	
15	16QAM	1	74	23.52	23.34	23.46	22.7
15	16QAM	36	0	22.50	22.29	22.23	
15	16QAM	36	20	22.43	22.28	22.21	
15	16QAM	36	39	22.35	22.22	22.21	22.7
15	16QAM	75	0	22.38	22.28	22.17	
15	64QAM	1	0	22.36	22.48	22.42	
15	64QAM	1	37	22.60	22.49	22.27	21.7
15	64QAM	1	74	22.45	22.31	22.27	
15	64QAM	36	0	21.42	21.24	21.16	
15	64QAM	36	20	21.45	21.33	21.15	19.7
15	64QAM	36	39	21.28	21.24	21.22	
15	64QAM	75	0	21.45	21.24	21.23	
15	256QAM	1	0	19.40	19.47	19.53	19.7
15	256QAM	1	37	19.46	19.32	19.37	
15	256QAM	1	74	19.59	19.45	19.45	
15	256QAM	36	0	19.52	19.47	19.42	19.7
15	256QAM	36	20	19.40	19.44	19.47	



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15	256QAM	36	39	19.46	19.44	19.34	
15	256QAM	75	0	19.47	19.41	19.49	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	24.52	24.38	24.25	24.7
10	QPSK	1	25	24.31	24.04	24.01	
10	QPSK	1	49	24.09	23.98	23.89	
10	QPSK	25	0	23.35	23.26	23.14	23.7
10	QPSK	25	12	23.30	23.23	23.06	
10	QPSK	25	25	23.18	23.17	23.13	
10	QPSK	50	0	23.34	23.16	23.12	
10	16QAM	1	0	23.49	23.43	23.28	
10	16QAM	1	25	23.39	23.49	23.33	23.7
10	16QAM	1	49	23.43	23.19	23.33	
10	16QAM	25	0	22.38	22.20	22.06	
10	16QAM	25	12	22.39	22.23	22.13	22.7
10	16QAM	25	25	22.16	22.09	22.12	
10	16QAM	50	0	22.27	22.19	22.09	
10	64QAM	1	0	22.35	22.37	22.32	22.7
10	64QAM	1	25	22.46	22.35	22.20	
10	64QAM	1	49	22.28	22.19	22.17	
10	64QAM	25	0	21.40	21.19	21.05	21.7
10	64QAM	25	12	21.37	21.21	21.11	
10	64QAM	25	25	21.18	21.16	21.09	
10	64QAM	50	0	21.32	21.19	21.13	
10	256QAM	1	0	19.55	19.56	19.58	19.7
10	256QAM	1	25	19.52	19.47	19.40	
10	256QAM	1	49	19.50	19.54	19.51	
10	256QAM	25	0	19.60	19.54	19.47	19.7
10	256QAM	25	12	19.60	19.52	19.50	
10	256QAM	25	25	19.56	19.47	19.43	
10	256QAM	50	0	19.58	19.55	19.58	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	24.48	24.37	24.24	24.7
5	QPSK	1	12	24.30	24.00	24.02	
5	QPSK	1	24	24.12	24.01	23.94	
5	QPSK	12	0	23.39	23.18	23.13	23.7
5	QPSK	12	7	23.35	23.18	23.06	
5	QPSK	12	13	23.24	23.14	23.09	
5	QPSK	25	0	23.27	23.23	23.11	
5	16QAM	1	0	23.44	23.45	23.35	23.7
5	16QAM	1	12	23.41	23.46	23.36	
5	16QAM	1	24	23.47	23.17	23.35	
5	16QAM	12	0	22.31	22.17	22.10	22.7
5	16QAM	12	7	22.30	22.22	22.07	
5	16QAM	12	13	22.19	22.08	22.08	
5	16QAM	25	0	22.25	22.14	22.08	
5	64QAM	1	0	22.30	22.35	22.26	22.7
5	64QAM	1	12	22.45	22.36	22.17	
5	64QAM	1	24	22.28	22.23	22.21	
5	64QAM	12	0	21.34	21.23	21.10	21.7
5	64QAM	12	7	21.39	21.17	21.13	
5	64QAM	12	13	21.22	21.14	21.06	
5	64QAM	25	0	21.32	21.20	21.13	
5	256QAM	1	0	19.56	19.42	19.56	19.7
5	256QAM	1	12	19.58	19.46	19.42	
5	256QAM	1	24	19.57	19.57	19.53	
5	256QAM	12	0	19.42	19.49	19.49	19.7
5	256QAM	12	7	19.55	19.54	19.56	
5	256QAM	12	13	19.55	19.49	19.46	
5	256QAM	25	0	19.59	19.53	19.58	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	24.53	24.35	24.22	24.7
3	QPSK	1	8	24.26	24.05	23.97	
3	QPSK	1	14	24.10	23.98	23.92	
3	QPSK	8	0	23.34	23.22	23.14	23.7
3	QPSK	8	4	23.30	23.22	23.13	
3	QPSK	8	7	23.24	23.13	23.08	
3	QPSK	15	0	23.34	23.13	23.09	
3	16QAM	1	0	23.43	23.44	23.27	23.7
3	16QAM	1	8	23.46	23.50	23.36	
3	16QAM	1	14	23.44	23.18	23.29	
3	16QAM	8	0	22.32	22.17	22.13	22.7
3	16QAM	8	4	22.33	22.22	22.06	
3	16QAM	8	7	22.20	22.08	22.03	
3	16QAM	15	0	22.35	22.12	22.07	
3	64QAM	1	0	22.26	22.38	22.35	22.7
3	64QAM	1	8	22.46	22.42	22.20	
3	64QAM	1	14	22.35	22.17	22.17	
3	64QAM	8	0	21.37	21.21	21.14	21.7
3	64QAM	8	4	21.36	21.22	21.10	
3	64QAM	8	7	21.18	21.14	21.09	
3	64QAM	15	0	21.37	21.20	21.07	
3	256QAM	1	0	19.50	19.44	19.59	19.7
3	256QAM	1	8	19.52	19.52	19.45	
3	256QAM	1	14	19.53	19.57	19.55	
3	256QAM	8	0	19.56	19.57	19.54	19.7
3	256QAM	8	4	19.58	19.52	19.55	
3	256QAM	8	7	19.50	19.46	19.49	
3	256QAM	15	0	19.57	19.55	19.52	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	24.46	24.38	24.20	24.7
1.4	QPSK	1	3	24.26	24.09	24.04	
1.4	QPSK	1	5	24.15	23.99	23.91	
1.4	QPSK	3	0	23.41	23.20	23.06	
1.4	QPSK	3	1	23.33	23.18	23.15	
1.4	QPSK	3	3	23.20	23.19	23.09	
1.4	QPSK	6	0	23.28	23.23	23.09	23.7
1.4	16QAM	1	0	23.43	23.46	23.28	23.7
1.4	16QAM	1	3	23.45	23.49	23.36	
1.4	16QAM	1	5	23.46	23.23	23.28	
1.4	16QAM	3	0	22.33	22.17	22.14	
1.4	16QAM	3	1	22.36	22.19	22.13	
1.4	16QAM	3	3	22.20	22.08	22.03	22.7
1.4	16QAM	6	0	22.27	22.13	22.10	
1.4	64QAM	1	0	22.26	22.28	22.35	22.7
1.4	64QAM	1	3	22.51	22.42	22.18	
1.4	64QAM	1	5	22.31	22.24	22.21	
1.4	64QAM	3	0	21.37	21.14	21.04	
1.4	64QAM	3	1	21.38	21.21	21.13	
1.4	64QAM	3	3	21.22	21.19	21.03	
1.4	64QAM	6	0	21.36	21.20	21.11	21.7
1.4	256QAM	1	0	19.46	19.42	19.45	19.7
1.4	256QAM	1	3	19.57	19.43	19.44	
1.4	256QAM	1	5	19.54	19.42	19.49	
1.4	256QAM	3	0	19.43	19.57	19.49	
1.4	256QAM	3	1	19.53	19.54	19.60	
1.4	256QAM	3	3	19.53	19.45	19.47	19.7
1.4	256QAM	6	0	19.60	19.51	19.56	



<LTE Band 2_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.73	21.35	21.25	
20	QPSK	1	49	21.65	21.23	21.23	22
20	QPSK	1	99	21.50	21.06	21.04	
20	QPSK	50	0	20.69	20.26	20.20	
20	QPSK	50	24	20.64	20.37	20.18	21
20	QPSK	50	50	20.50	20.32	20.19	
20	QPSK	100	0	20.52	20.37	20.20	
20	16QAM	1	0	20.95	20.65	20.52	21
20	16QAM	1	49	20.86	20.58	20.44	
20	16QAM	1	99	20.67	20.35	20.31	
20	16QAM	50	0	19.57	19.31	19.35	20
20	16QAM	50	24	19.56	19.30	19.20	
20	16QAM	50	50	19.42	19.29	19.20	
20	16QAM	100	0	19.55	19.38	19.24	20
20	64QAM	1	0	19.95	19.51	19.27	
20	64QAM	1	49	19.59	19.41	19.25	
20	64QAM	1	99	19.52	19.21	19.22	19
20	64QAM	50	0	18.58	18.32	18.35	
20	64QAM	50	24	18.56	18.42	18.21	
20	64QAM	50	50	18.42	18.28	18.21	17
20	64QAM	100	0	18.53	18.27	18.24	
20	256QAM	1	0	16.16	16.07	16.11	
20	256QAM	1	49	16.37	16.09	15.85	17
20	256QAM	1	99	16.17	15.87	15.99	
20	256QAM	50	0	16.31	15.96	15.98	
20	256QAM	50	24	16.27	16.10	16.11	17
20	256QAM	50	50	16.19	15.91	15.95	
20	256QAM	100	0	16.11	15.91	15.94	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.50	21.10	21.08	
15	QPSK	1	37	21.59	20.93	20.86	22
15	QPSK	1	74	21.38	20.96	20.87	
15	QPSK	36	0	20.60	19.99	19.90	21
15	QPSK	36	20	20.62	20.29	19.98	
15	QPSK	36	39	20.33	20.24	20.01	
15	QPSK	75	0	20.22	20.31	19.98	21
15	16QAM	1	0	20.79	20.43	20.33	
15	16QAM	1	37	20.81	20.44	20.16	
15	16QAM	1	74	20.52	20.19	20.14	20
15	16QAM	36	0	19.45	19.20	19.16	
15	16QAM	36	20	19.33	19.11	18.93	
15	16QAM	36	39	19.13	19.01	19.04	20
15	16QAM	75	0	19.20	19.20	19.06	
15	64QAM	1	0	19.83	19.28	19.05	
15	64QAM	1	37	19.44	19.13	19.11	20
15	64QAM	1	74	19.34	18.99	19.14	
15	64QAM	36	0	18.43	18.09	18.08	
15	64QAM	36	20	18.36	18.09	18.12	19
15	64QAM	36	39	18.12	18.01	17.96	
15	64QAM	75	0	18.30	18.00	18.04	
15	256QAM	1	0	15.97	15.85	15.76	17
15	256QAM	1	37	16.19	15.77	15.75	
15	256QAM	1	74	16.08	15.66	15.73	
15	256QAM	36	0	16.12	15.87	15.70	17
15	256QAM	36	20	16.03	15.83	15.88	



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15	256QAM	36	39	16.01	15.75	15.70	
15	256QAM	75	0	15.76	15.73	15.68	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.49	21.09	20.90	22
10	QPSK	1	25	21.36	21.12	20.98	
10	QPSK	1	49	21.23	20.93	20.89	
10	QPSK	25	0	20.43	20.02	20.03	21
10	QPSK	25	12	20.50	20.23	20.00	
10	QPSK	25	25	20.21	20.15	20.04	
10	QPSK	50	0	20.35	20.00	19.87	
10	16QAM	1	0	20.70	20.47	20.20	
10	16QAM	1	25	20.85	20.38	20.30	21
10	16QAM	1	49	20.43	20.23	20.02	
10	16QAM	25	0	19.24	19.08	19.23	20
10	16QAM	25	12	19.35	19.08	18.95	
10	16QAM	25	25	19.21	19.21	19.09	
10	16QAM	50	0	19.34	19.19	19.05	
10	64QAM	1	0	19.64	19.24	19.06	
10	64QAM	1	25	19.44	19.27	18.98	20
10	64QAM	1	49	19.39	19.10	18.97	
10	64QAM	25	0	18.42	18.12	18.14	19
10	64QAM	25	12	18.36	18.19	18.11	
10	64QAM	25	25	18.20	18.15	18.06	
10	64QAM	50	0	18.20	18.21	17.92	
10	256QAM	1	0	15.97	15.85	15.91	17
10	256QAM	1	25	16.28	15.89	15.64	
10	256QAM	1	49	16.03	15.76	15.74	
10	256QAM	25	0	16.01	15.85	15.74	17
10	256QAM	25	12	16.06	16.00	15.89	
10	256QAM	25	25	16.03	15.81	15.75	
10	256QAM	50	0	15.88	15.73	15.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.47	21.10	21.23	22
5	QPSK	1	12	21.60	21.15	21.03	
5	QPSK	1	24	21.35	20.67	20.71	
5	QPSK	12	0	20.47	20.04	20.07	21
5	QPSK	12	7	20.35	20.16	19.98	
5	QPSK	12	13	20.24	20.13	20.02	
5	QPSK	25	0	20.32	20.15	20.09	
5	16QAM	1	0	20.67	20.43	20.33	21
5	16QAM	1	12	20.77	20.41	20.25	
5	16QAM	1	24	20.40	20.09	20.08	
5	16QAM	12	0	19.36	19.15	19.07	20
5	16QAM	12	7	19.32	19.10	18.99	
5	16QAM	12	13	19.20	18.96	19.07	
5	16QAM	25	0	19.22	19.32	19.03	
5	64QAM	1	0	19.81	19.36	19.09	20
5	64QAM	1	12	19.39	19.12	19.06	
5	64QAM	1	24	19.44	19.07	19.05	
5	64QAM	12	0	18.35	18.17	18.19	19
5	64QAM	12	7	18.40	18.20	18.09	
5	64QAM	12	13	18.04	18.17	18.04	
5	64QAM	25	0	18.27	17.93	18.14	
5	256QAM	1	0	16.04	15.78	15.92	17
5	256QAM	1	12	16.13	15.78	15.80	
5	256QAM	1	24	16.03	15.78	15.64	
5	256QAM	12	0	16.16	15.86	15.80	17
5	256QAM	12	7	16.23	16.02	15.97	
5	256QAM	12	13	16.05	15.65	15.65	
5	256QAM	25	0	15.84	15.55	15.64	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.55	21.02	21.03	22
3	QPSK	1	8	21.54	20.89	21.12	
3	QPSK	1	14	21.46	20.77	20.84	
3	QPSK	8	0	20.68	20.03	20.02	21
3	QPSK	8	4	20.53	20.14	19.90	
3	QPSK	8	7	20.38	20.02	20.07	
3	QPSK	15	0	20.31	20.21	19.82	
3	16QAM	1	0	20.65	20.59	20.39	21
3	16QAM	1	8	20.79	20.42	20.41	
3	16QAM	1	14	20.51	20.18	20.16	
3	16QAM	8	0	19.21	19.12	19.26	20
3	16QAM	8	4	19.38	19.03	18.98	
3	16QAM	8	7	19.14	19.20	18.96	
3	16QAM	15	0	19.27	19.14	19.12	
3	64QAM	1	0	19.83	19.35	19.16	20
3	64QAM	1	8	19.23	19.31	19.09	
3	64QAM	1	14	19.38	18.99	18.98	
3	64QAM	8	0	18.40	18.15	18.20	19
3	64QAM	8	4	18.51	18.36	18.08	
3	64QAM	8	7	18.08	18.08	17.98	
3	64QAM	15	0	18.42	17.92	18.09	
3	256QAM	1	0	16.04	15.89	15.90	17
3	256QAM	1	8	16.18	15.74	15.75	
3	256QAM	1	14	15.99	15.60	15.81	
3	256QAM	8	0	16.16	15.91	15.80	17
3	256QAM	8	4	16.22	15.97	15.95	
3	256QAM	8	7	15.86	15.54	15.80	
3	256QAM	15	0	15.86	15.60	15.82	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.46	21.20	21.08	22
1.4	QPSK	1	3	21.46	20.95	20.98	
1.4	QPSK	1	5	21.41	20.85	20.86	
1.4	QPSK	3	0	20.36	20.20	20.10	
1.4	QPSK	3	1	20.32	20.03	20.04	
1.4	QPSK	3	3	20.30	20.01	20.00	
1.4	QPSK	6	0	20.32	20.22	19.88	21
1.4	16QAM	1	0	20.86	20.33	20.28	21
1.4	16QAM	1	3	20.75	20.46	20.14	
1.4	16QAM	1	5	20.44	20.12	20.17	
1.4	16QAM	3	0	19.37	19.13	19.21	
1.4	16QAM	3	1	19.31	19.07	19.00	
1.4	16QAM	3	3	19.35	19.05	19.11	20
1.4	16QAM	6	0	19.38	19.16	19.05	
1.4	64QAM	1	0	19.77	19.40	19.18	20
1.4	64QAM	1	3	19.34	19.38	19.09	
1.4	64QAM	1	5	19.38	18.87	18.93	
1.4	64QAM	3	0	18.47	18.14	18.03	
1.4	64QAM	3	1	18.50	18.27	18.25	
1.4	64QAM	3	3	18.37	18.32	18.01	
1.4	64QAM	6	0	18.36	17.92	18.22	19
1.4	256QAM	1	0	15.90	15.74	15.85	17
1.4	256QAM	1	3	16.24	15.82	15.58	
1.4	256QAM	1	5	16.13	15.56	15.75	
1.4	256QAM	3	0	16.07	15.66	15.61	
1.4	256QAM	3	1	16.02	15.88	15.82	
1.4	256QAM	3	3	16.04	15.63	15.87	17
1.4	256QAM	6	0	15.82	15.77	15.65	

**<LTE Band 2_Ant 1_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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.73	21.35	21.25	22
20	QPSK	1	49	21.65	21.23	21.23	
20	QPSK	1	99	21.50	21.06	21.04	
20	QPSK	50	0	20.69	20.26	20.20	21
20	QPSK	50	24	20.64	20.37	20.18	
20	QPSK	50	50	20.50	20.32	20.19	
20	QPSK	100	0	20.52	20.37	20.20	21
20	16QAM	1	0	20.95	20.65	20.52	
20	16QAM	1	49	20.86	20.58	20.44	
20	16QAM	1	99	20.67	20.35	20.31	20
20	16QAM	50	0	19.57	19.31	19.35	
20	16QAM	50	24	19.56	19.30	19.20	
20	16QAM	50	50	19.42	19.29	19.20	20
20	16QAM	100	0	19.55	19.38	19.24	
20	64QAM	1	0	19.95	19.51	19.27	
20	64QAM	1	49	19.59	19.41	19.25	19
20	64QAM	1	99	19.52	19.21	19.22	
20	64QAM	50	0	18.58	18.32	18.35	
20	64QAM	50	24	18.56	18.42	18.21	17
20	64QAM	50	50	18.42	18.28	18.21	
20	64QAM	100	0	18.53	18.27	18.24	
20	256QAM	1	0	16.19	16.22	16.13	17
20	256QAM	1	49	16.40	16.15	15.94	
20	256QAM	1	99	16.24	15.87	15.83	
20	256QAM	50	0	16.23	15.88	16.02	17
20	256QAM	50	24	16.28	16.16	16.02	
20	256QAM	50	50	16.13	16.11	15.86	
20	256QAM	100	0	16.08	16.01	15.90	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.53	21.27	21.16	22
15	QPSK	1	37	21.62	21.09	21.13	
15	QPSK	1	74	21.50	21.03	21.04	
15	QPSK	36	0	20.66	20.07	20.02	21
15	QPSK	36	20	20.62	20.36	20.09	
15	QPSK	36	39	20.31	20.18	20.06	
15	QPSK	75	0	20.46	20.31	20.07	21
15	16QAM	1	0	20.90	20.47	20.48	
15	16QAM	1	37	20.75	20.47	20.41	
15	16QAM	1	74	20.65	20.27	20.20	20
15	16QAM	36	0	19.46	19.24	19.28	
15	16QAM	36	20	19.52	19.10	19.15	
15	16QAM	36	39	19.39	19.16	19.09	20
15	16QAM	75	0	19.44	19.31	19.20	
15	64QAM	1	0	19.84	19.37	19.22	
15	64QAM	1	37	19.58	19.25	19.10	19
15	64QAM	1	74	19.37	19.05	19.14	
15	64QAM	36	0	18.49	18.17	18.21	
15	64QAM	36	20	18.56	18.37	18.11	17
15	64QAM	36	39	18.38	18.20	18.14	
15	64QAM	75	0	18.44	18.18	18.13	
15	256QAM	1	0	16.16	16.08	16.02	17
15	256QAM	1	37	16.35	16.02	15.77	
15	256QAM	1	74	16.12	15.78	15.82	
15	256QAM	36	0	16.04	15.85	16.00	17
15	256QAM	36	20	16.22	16.07	15.91	



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15	256QAM	36	39	16.06	16.07	15.79	
15	256QAM	75	0	15.93	15.90	15.79	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.68	21.32	21.12	22
10	QPSK	1	25	21.45	21.06	21.15	
10	QPSK	1	49	21.41	20.96	20.86	
10	QPSK	25	0	20.66	20.16	20.18	21
10	QPSK	25	12	20.64	20.17	20.02	
10	QPSK	25	25	20.49	20.18	20.06	
10	QPSK	50	0	20.49	20.19	20.17	
10	16QAM	1	0	20.93	20.61	20.48	
10	16QAM	1	25	20.69	20.39	20.40	21
10	16QAM	1	49	20.54	20.30	20.26	
10	16QAM	25	0	19.38	19.11	19.34	20
10	16QAM	25	12	19.56	19.14	19.19	
10	16QAM	25	25	19.29	19.19	19.09	
10	16QAM	50	0	19.53	19.35	19.18	
10	64QAM	1	0	19.76	19.38	19.14	
10	64QAM	1	25	19.50	19.29	19.20	20
10	64QAM	1	49	19.37	19.11	19.08	
10	64QAM	25	0	18.53	18.15	18.33	19
10	64QAM	25	12	18.40	18.33	18.14	
10	64QAM	25	25	18.31	18.10	18.16	
10	64QAM	50	0	18.46	18.22	18.20	
10	256QAM	1	0	16.06	16.15	15.93	17
10	256QAM	1	25	16.28	16.07	15.76	
10	256QAM	1	49	16.05	15.72	15.69	
10	256QAM	25	0	16.23	15.80	15.83	17
10	256QAM	25	12	16.25	16.10	16.02	
10	256QAM	25	25	16.11	15.96	15.66	
10	256QAM	50	0	15.90	15.91	15.76	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.56	21.27	21.20	22
5	QPSK	1	12	21.49	21.03	21.18	
5	QPSK	1	24	21.32	21.02	20.97	
5	QPSK	12	0	20.64	20.15	20.18	21
5	QPSK	12	7	20.60	20.30	20.05	
5	QPSK	12	13	20.40	20.28	20.01	
5	QPSK	25	0	20.52	20.35	20.04	
5	16QAM	1	0	20.91	20.62	20.46	
5	16QAM	1	12	20.72	20.41	20.40	21
5	16QAM	1	24	20.64	20.18	20.23	
5	16QAM	12	0	19.50	19.18	19.19	
5	16QAM	12	7	19.55	19.15	19.13	20
5	16QAM	12	13	19.39	19.22	19.15	
5	16QAM	25	0	19.37	19.31	19.12	
5	64QAM	1	0	19.78	19.37	19.24	20
5	64QAM	1	12	19.43	19.29	19.11	
5	64QAM	1	24	19.47	19.02	19.12	
5	64QAM	12	0	18.44	18.27	18.33	19
5	64QAM	12	7	18.40	18.27	18.07	
5	64QAM	12	13	18.23	18.23	18.16	
5	64QAM	25	0	18.37	18.14	18.23	
5	256QAM	1	0	16.04	16.17	16.07	
5	256QAM	1	12	16.28	16.14	15.89	17
5	256QAM	1	24	16.11	15.69	15.77	
5	256QAM	12	0	16.20	15.71	15.85	17
5	256QAM	12	7	16.12	16.12	15.97	
5	256QAM	12	13	15.97	15.95	15.78	
5	256QAM	25	0	16.05	15.90	15.72	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.53	21.15	21.22	22
3	QPSK	1	8	21.46	21.17	21.22	
3	QPSK	1	14	21.48	21.01	20.87	
3	QPSK	8	0	20.49	20.22	20.02	21
3	QPSK	8	4	20.54	20.28	20.08	
3	QPSK	8	7	20.48	20.32	20.12	
3	QPSK	15	0	20.39	20.22	20.18	
3	16QAM	1	0	20.94	20.61	20.42	21
3	16QAM	1	8	20.69	20.54	20.43	
3	16QAM	1	14	20.48	20.27	20.26	
3	16QAM	8	0	19.42	19.30	19.18	20
3	16QAM	8	4	19.48	19.10	19.12	
3	16QAM	8	7	19.23	19.29	19.20	
3	16QAM	15	0	19.36	19.38	19.10	
3	64QAM	1	0	19.86	19.38	19.21	20
3	64QAM	1	8	19.48	19.27	19.24	
3	64QAM	1	14	19.33	19.09	19.07	
3	64QAM	8	0	18.50	18.16	18.25	19
3	64QAM	8	4	18.40	18.36	18.19	
3	64QAM	8	7	18.42	18.28	18.16	
3	64QAM	15	0	18.53	18.12	18.15	
3	256QAM	1	0	16.01	16.08	16.04	17
3	256QAM	1	8	16.25	16.01	15.89	
3	256QAM	1	14	16.12	15.77	15.71	
3	256QAM	8	0	16.08	15.78	15.83	17
3	256QAM	8	4	16.20	16.07	15.82	
3	256QAM	8	7	15.99	15.97	15.72	
3	256QAM	15	0	16.01	15.99	15.79	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.64	21.28	21.12	22
1.4	QPSK	1	3	21.52	21.22	21.22	
1.4	QPSK	1	5	21.38	20.90	20.92	
1.4	QPSK	3	0	20.55	20.13	20.14	
1.4	QPSK	3	1	20.60	20.20	20.05	
1.4	QPSK	3	3	20.39	20.26	20.14	
1.4	QPSK	6	0	20.50	20.18	20.16	21
1.4	16QAM	1	0	20.78	20.60	20.36	21
1.4	16QAM	1	3	20.86	20.56	20.33	
1.4	16QAM	1	5	20.48	20.18	20.20	
1.4	16QAM	3	0	19.57	19.11	19.18	
1.4	16QAM	3	1	19.47	19.14	19.00	
1.4	16QAM	3	3	19.34	19.23	19.12	20
1.4	16QAM	6	0	19.49	19.25	19.09	
1.4	64QAM	1	0	19.83	19.44	19.10	20
1.4	64QAM	1	3	19.41	19.24	19.18	
1.4	64QAM	1	5	19.51	19.16	19.03	
1.4	64QAM	3	0	18.38	18.22	18.32	
1.4	64QAM	3	1	18.56	18.26	18.06	
1.4	64QAM	3	3	18.24	18.12	18.06	
1.4	64QAM	6	0	18.48	18.09	18.21	19
1.4	256QAM	1	0	16.16	16.18	16.02	17
1.4	256QAM	1	3	16.22	16.12	15.89	
1.4	256QAM	1	5	16.04	15.72	15.78	
1.4	256QAM	3	0	16.16	15.71	15.99	
1.4	256QAM	3	1	16.28	16.08	15.99	
1.4	256QAM	3	3	16.03	15.93	15.77	17
1.4	256QAM	6	0	16.04	15.82	15.89	



<LTE Band 4_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	25.46	25.52	25.47	
20	QPSK	1	49	25.41	25.46	25.45	25.7
20	QPSK	1	99	25.28	25.34	25.42	
20	QPSK	50	0	24.50	24.56	24.48	
20	QPSK	50	24	24.47	24.42	24.55	24.7
20	QPSK	50	50	24.41	24.43	24.55	
20	QPSK	100	0	24.46	24.48	24.42	
20	16QAM	1	0	24.57	24.58	24.56	24.7
20	16QAM	1	49	24.67	24.66	24.38	
20	16QAM	1	99	24.59	24.68	24.59	
20	16QAM	50	0	23.56	23.41	23.46	23.7
20	16QAM	50	24	23.45	23.40	23.56	
20	16QAM	50	50	23.39	23.41	23.65	
20	16QAM	100	0	23.43	23.38	23.52	23.7
20	64QAM	1	0	23.70	23.64	23.70	
20	64QAM	1	49	23.47	23.62	23.70	
20	64QAM	1	99	23.57	23.57	23.57	22.7
20	64QAM	50	0	22.57	22.40	22.48	
20	64QAM	50	24	22.46	22.38	22.55	
20	64QAM	50	50	22.39	22.41	22.68	20.7
20	64QAM	100	0	22.42	22.37	22.53	
20	256QAM	1	0	20.49	20.58	20.44	
20	256QAM	1	49	20.42	20.50	20.37	20.7
20	256QAM	1	99	20.62	20.70	20.57	
20	256QAM	50	0	20.39	20.46	20.35	
20	256QAM	50	24	20.45	20.52	20.46	20.7
20	256QAM	50	50	20.51	20.58	20.52	
20	256QAM	100	0	20.52	20.58	20.49	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	25.46	25.47	25.45	
15	QPSK	1	37	25.39	25.28	25.45	25.7
15	QPSK	1	74	25.18	25.26	25.41	
15	QPSK	36	0	24.33	24.50	24.32	24.7
15	QPSK	36	20	24.46	24.26	24.48	
15	QPSK	36	39	24.31	24.25	24.52	
15	QPSK	75	0	24.40	24.44	24.26	24.7
15	16QAM	1	0	24.46	24.51	24.53	
15	16QAM	1	37	24.61	24.47	24.25	
15	16QAM	1	74	24.58	24.51	24.58	23.7
15	16QAM	36	0	23.56	23.36	23.34	
15	16QAM	36	20	23.32	23.39	23.52	
15	16QAM	36	39	23.21	23.30	23.57	23.7
15	16QAM	75	0	23.29	23.36	23.33	
15	64QAM	1	0	23.65	23.48	23.66	
15	64QAM	1	37	23.36	23.47	23.57	22.7
15	64QAM	1	74	23.45	23.53	23.39	
15	64QAM	36	0	22.40	22.25	22.42	
15	64QAM	36	20	22.36	22.24	22.36	20.7
15	64QAM	36	39	22.36	22.40	22.57	
15	64QAM	75	0	22.32	22.31	22.34	
15	256QAM	1	0	20.38	20.51	20.43	20.7
15	256QAM	1	37	20.22	20.49	20.29	
15	256QAM	1	74	20.43	20.54	20.38	
15	256QAM	36	0	20.22	20.26	20.19	20.7
15	256QAM	36	20	20.29	20.33	20.26	



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15	256QAM	36	39	20.38	20.56	20.43	Tune-up limit (dBm)
15	256QAM	75	0	20.45	20.56	20.33	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	25.38	25.49	25.28	25.7
10	QPSK	1	25	25.30	25.46	25.34	
10	QPSK	1	49	25.27	25.29	25.41	
10	QPSK	25	0	24.42	24.40	24.45	24.7
10	QPSK	25	12	24.28	24.42	24.35	
10	QPSK	25	25	24.41	24.38	24.54	
10	QPSK	50	0	24.44	24.32	24.41	
10	16QAM	1	0	24.51	24.48	24.52	24.7
10	16QAM	1	25	24.48	24.48	24.33	
10	16QAM	1	49	24.55	24.53	24.44	
10	16QAM	25	0	23.48	23.36	23.28	23.7
10	16QAM	25	12	23.41	23.30	23.54	
10	16QAM	25	25	23.36	23.36	23.61	
10	16QAM	50	0	23.29	23.20	23.44	
10	64QAM	1	0	23.66	23.54	23.59	23.7
10	64QAM	1	25	23.47	23.62	23.56	
10	64QAM	1	49	23.37	23.44	23.46	
10	64QAM	25	0	22.38	22.32	22.28	22.7
10	64QAM	25	12	22.41	22.23	22.37	
10	64QAM	25	25	22.33	22.35	22.48	
10	64QAM	50	0	22.30	22.17	22.34	
10	256QAM	1	0	20.40	20.57	20.27	20.7
10	256QAM	1	25	20.41	20.38	20.25	
10	256QAM	1	49	20.52	20.53	20.37	
10	256QAM	25	0	20.31	20.40	20.24	20.7
10	256QAM	25	12	20.44	20.32	20.45	
10	256QAM	25	25	20.47	20.40	20.43	
10	256QAM	50	0	20.39	20.54	20.32	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	25.32	25.40	25.28	25.7
5	QPSK	1	12	25.38	25.34	25.41	
5	QPSK	1	24	25.13	25.17	25.37	
5	QPSK	12	0	24.38	24.55	24.37	24.7
5	QPSK	12	7	24.37	24.32	24.45	
5	QPSK	12	13	24.27	24.42	24.51	
5	QPSK	25	0	24.41	24.32	24.24	
5	16QAM	1	0	24.46	24.39	24.54	24.7
5	16QAM	1	12	24.64	24.66	24.18	
5	16QAM	1	24	24.57	24.52	24.58	
5	16QAM	12	0	23.53	23.40	23.34	23.7
5	16QAM	12	7	23.45	23.33	23.48	
5	16QAM	12	13	23.32	23.21	23.48	
5	16QAM	25	0	23.42	23.24	23.46	
5	64QAM	1	0	23.59	23.58	23.51	23.7
5	64QAM	1	12	23.30	23.57	23.70	
5	64QAM	1	24	23.55	23.54	23.43	
5	64QAM	12	0	22.44	22.34	22.43	22.7
5	64QAM	12	7	22.31	22.26	22.55	
5	64QAM	12	13	22.19	22.27	22.53	
5	64QAM	25	0	22.36	22.29	22.33	
5	256QAM	1	0	20.42	20.53	20.30	20.7
5	256QAM	1	12	20.31	20.50	20.25	
5	256QAM	1	24	20.55	20.69	20.46	
5	256QAM	12	0	20.24	20.41	20.22	20.7
5	256QAM	12	7	20.25	20.45	20.39	
5	256QAM	12	13	20.50	20.42	20.42	
5	256QAM	25	0	20.45	20.52	20.43	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	25.33	25.33	25.30	25.7
3	QPSK	1	8	25.27	25.42	25.35	
3	QPSK	1	14	25.09	25.20	25.33	
3	QPSK	8	0	24.48	24.55	24.30	24.7
3	QPSK	8	4	24.31	24.40	24.41	
3	QPSK	8	7	24.41	24.23	24.54	
3	QPSK	15	0	24.45	24.37	24.41	
3	16QAM	1	0	24.43	24.52	24.48	24.7
3	16QAM	1	8	24.52	24.58	24.25	
3	16QAM	1	14	24.56	24.56	24.56	
3	16QAM	8	0	23.45	23.35	23.41	23.7
3	16QAM	8	4	23.42	23.25	23.43	
3	16QAM	8	7	23.29	23.27	23.61	
3	16QAM	15	0	23.41	23.19	23.43	
3	64QAM	1	0	23.65	23.53	23.56	23.7
3	64QAM	1	8	23.34	23.56	23.50	
3	64QAM	1	14	23.43	23.56	23.54	
3	64QAM	8	0	22.53	22.30	22.47	22.7
3	64QAM	8	4	22.46	22.25	22.49	
3	64QAM	8	7	22.28	22.22	22.61	
3	64QAM	15	0	22.27	22.35	22.39	
3	256QAM	1	0	20.46	20.55	20.34	20.7
3	256QAM	1	8	20.27	20.37	20.27	
3	256QAM	1	14	20.49	20.70	20.39	
3	256QAM	8	0	20.21	20.26	20.23	20.7
3	256QAM	8	4	20.42	20.49	20.39	
3	256QAM	8	7	20.36	20.44	20.41	
3	256QAM	15	0	20.41	20.38	20.38	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	25.40	25.43	25.43	25.7
1.4	QPSK	1	3	25.35	25.28	25.45	
1.4	QPSK	1	5	25.24	25.23	25.41	
1.4	QPSK	3	0	25.41	25.47	25.36	
1.4	QPSK	3	1	25.41	25.42	25.34	
1.4	QPSK	3	3	25.15	25.17	25.23	
1.4	QPSK	6	0	24.39	24.38	24.35	24.7
1.4	16QAM	1	0	24.38	24.24	24.48	24.7
1.4	16QAM	1	3	24.26	24.40	24.51	
1.4	16QAM	1	5	24.32	24.42	24.26	
1.4	16QAM	3	0	24.48	24.57	24.53	
1.4	16QAM	3	1	24.65	24.60	24.22	
1.4	16QAM	3	3	24.43	24.50	24.58	23.7
1.4	16QAM	6	0	23.44	23.23	23.29	
1.4	64QAM	1	0	23.42	23.25	23.51	23.7
1.4	64QAM	1	3	23.26	23.35	23.65	
1.4	64QAM	1	5	23.23	23.36	23.35	
1.4	64QAM	3	0	23.55	23.62	23.53	
1.4	64QAM	3	1	23.42	23.42	23.63	
1.4	64QAM	3	3	23.53	23.43	23.55	
1.4	64QAM	6	0	22.49	22.21	22.43	22.7
1.4	256QAM	1	0	20.31	20.58	20.30	20.7
1.4	256QAM	1	3	20.22	20.38	20.27	
1.4	256QAM	1	5	20.47	20.51	20.55	
1.4	256QAM	3	0	20.36	20.35	20.28	
1.4	256QAM	3	1	20.29	20.35	20.45	
1.4	256QAM	3	3	20.48	20.52	20.36	
1.4	256QAM	6	0	20.42	20.52	20.35	20.7



<LTE Band 4_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.23	22.17	22.00	
20	QPSK	1	49	22.11	22.05	21.90	22.6
20	QPSK	1	99	22.04	22.06	21.85	
20	QPSK	50	0	21.29	21.17	21.08	
20	QPSK	50	24	21.23	21.17	21.05	21.6
20	QPSK	50	50	21.15	21.14	21.04	
20	QPSK	100	0	21.20	21.12	21.01	
20	16QAM	1	0	21.30	21.18	21.17	21.6
20	16QAM	1	49	21.19	21.21	21.19	
20	16QAM	1	99	21.07	21.29	21.08	
20	16QAM	50	0	20.21	20.15	20.17	20.6
20	16QAM	50	24	20.26	20.16	20.10	
20	16QAM	50	50	20.17	20.19	19.95	
20	16QAM	100	0	20.27	20.11	20.01	20.6
20	64QAM	1	0	20.30	20.36	20.25	
20	64QAM	1	49	20.24	20.35	20.20	
20	64QAM	1	99	20.27	20.27	19.91	19.6
20	64QAM	50	0	19.16	19.23	19.14	
20	64QAM	50	24	19.28	19.09	19.03	
20	64QAM	50	50	19.18	19.11	19.05	17.6
20	64QAM	100	0	19.26	19.12	18.99	
20	256QAM	1	0	17.41	17.47	17.43	
20	256QAM	1	49	17.34	17.34	17.38	17.6
20	256QAM	1	99	17.35	17.38	17.39	
20	256QAM	50	0	17.36	17.42	17.32	
20	256QAM	50	24	17.31	17.39	17.39	17.6
20	256QAM	50	50	17.46	17.36	17.49	
20	256QAM	100	0	17.24	17.44	17.39	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.11	22.01	21.80	
15	QPSK	1	37	22.00	21.86	21.79	22.6
15	QPSK	1	74	21.93	21.89	21.69	
15	QPSK	36	0	21.12	20.98	20.91	
15	QPSK	36	20	21.03	20.99	20.89	21.6
15	QPSK	36	39	21.02	21.01	20.94	
15	QPSK	75	0	21.06	20.93	20.82	
15	16QAM	1	0	21.16	20.98	21.07	21.6
15	16QAM	1	37	20.99	21.05	21.07	
15	16QAM	1	74	20.96	21.16	20.90	
15	16QAM	36	0	20.08	20.04	20.07	20.6
15	16QAM	36	20	20.12	20.01	19.92	
15	16QAM	36	39	20.01	20.01	19.84	
15	16QAM	75	0	20.07	19.99	19.87	20.6
15	64QAM	1	0	20.18	20.25	20.08	
15	64QAM	1	37	20.07	20.25	20.06	
15	64QAM	1	74	20.08	20.17	19.72	19.6
15	64QAM	36	0	19.02	19.08	18.96	
15	64QAM	36	20	19.17	18.99	18.93	
15	64QAM	36	39	19.06	18.92	18.92	17.6
15	64QAM	75	0	19.16	18.96	18.83	
15	256QAM	1	0	17.29	17.29	17.29	
15	256QAM	1	37	17.19	17.20	17.18	17.6
15	256QAM	1	74	17.16	17.27	17.25	
15	256QAM	36	0	17.19	17.31	17.18	
15	256QAM	36	20	17.15	17.26	17.24	



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15	256QAM	36	39	17.30	17.18	17.35	Tune-up limit (dBm)
15	256QAM	75	0	17.06	17.28	17.22	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.07	22.01	21.81	22.6
10	QPSK	1	25	21.92	21.89	21.80	
10	QPSK	1	49	21.90	21.91	21.69	
10	QPSK	25	0	21.13	20.98	20.95	21.6
10	QPSK	25	12	21.10	21.02	20.92	
10	QPSK	25	25	20.99	21.03	20.90	
10	QPSK	50	0	21.03	20.97	20.88	
10	16QAM	1	0	21.11	21.04	20.99	21.6
10	16QAM	1	25	21.05	21.03	21.07	
10	16QAM	1	49	20.88	21.16	20.95	
10	16QAM	25	0	20.09	19.99	19.97	20.6
10	16QAM	25	12	20.08	20.05	19.92	
10	16QAM	25	25	20.00	20.09	19.83	
10	16QAM	50	0	20.13	20.00	19.91	
10	64QAM	1	0	20.15	20.23	20.14	20.6
10	64QAM	1	25	20.11	20.24	20.05	
10	64QAM	1	49	20.12	20.12	19.80	
10	64QAM	25	0	18.99	19.03	18.95	19.6
10	64QAM	25	12	19.18	18.95	18.89	
10	64QAM	25	25	19.03	19.01	18.88	
10	64QAM	50	0	19.06	18.93	18.86	
10	256QAM	1	0	17.26	17.33	17.24	17.6
10	256QAM	1	25	17.19	17.15	17.23	
10	256QAM	1	49	17.17	17.20	17.28	
10	256QAM	25	0	17.23	17.26	17.22	17.6
10	256QAM	25	12	17.21	17.27	17.22	
10	256QAM	25	25	17.36	17.19	17.36	
10	256QAM	50	0	17.11	17.26	17.21	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.11	22.04	21.84	22.6
5	QPSK	1	12	21.91	21.92	21.70	
5	QPSK	1	24	21.91	21.93	21.72	
5	QPSK	12	0	21.09	21.00	20.90	21.6
5	QPSK	12	7	21.06	21.05	20.85	
5	QPSK	12	13	21.05	21.03	20.92	
5	QPSK	25	0	21.02	21.00	20.82	
5	16QAM	1	0	21.11	21.02	21.06	21.6
5	16QAM	1	12	21.07	21.05	21.02	
5	16QAM	1	24	20.88	21.14	20.96	
5	16QAM	12	0	20.11	19.95	20.06	20.6
5	16QAM	12	7	20.09	20.02	19.91	
5	16QAM	12	13	20.07	20.09	19.75	
5	16QAM	25	0	20.16	19.98	19.84	
5	64QAM	1	0	20.19	20.19	20.15	20.6
5	64QAM	1	12	20.04	20.25	20.06	
5	64QAM	1	24	20.08	20.08	19.75	
5	64QAM	12	0	19.04	19.07	19.00	19.6
5	64QAM	12	7	19.11	18.89	18.83	
5	64QAM	12	13	18.98	18.94	18.89	
5	64QAM	25	0	19.16	18.95	18.84	
5	256QAM	1	0	17.30	17.31	17.23	17.6
5	256QAM	1	12	17.19	17.15	17.22	
5	256QAM	1	24	17.16	17.21	17.22	
5	256QAM	12	0	17.17	17.30	17.18	17.6
5	256QAM	12	7	17.11	17.29	17.28	
5	256QAM	12	13	17.32	17.26	17.39	
5	256QAM	25	0	17.09	17.31	17.19	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.05	21.99	21.88	22.6
3	QPSK	1	8	21.93	21.92	21.74	
3	QPSK	1	14	21.90	21.88	21.69	
3	QPSK	8	0	21.13	20.97	20.90	21.6
3	QPSK	8	4	21.09	21.02	20.88	
3	QPSK	8	7	21.05	21.01	20.85	
3	QPSK	15	0	21.00	20.98	20.84	
3	16QAM	1	0	21.10	20.98	21.01	21.6
3	16QAM	1	8	20.99	21.05	21.06	
3	16QAM	1	14	20.93	21.09	20.97	
3	16QAM	8	0	20.03	20.05	20.00	20.6
3	16QAM	8	4	20.12	19.99	19.95	
3	16QAM	8	7	20.07	20.07	19.80	
3	16QAM	15	0	20.16	19.91	19.87	
3	64QAM	1	0	20.20	20.23	20.10	20.6
3	64QAM	1	8	20.05	20.16	20.02	
3	64QAM	1	14	20.15	20.11	19.76	
3	64QAM	8	0	18.98	19.12	18.96	19.6
3	64QAM	8	4	19.16	18.90	18.93	
3	64QAM	8	7	19.02	18.93	18.85	
3	64QAM	15	0	19.14	18.98	18.82	
3	256QAM	1	0	17.26	17.28	17.32	17.6
3	256QAM	1	8	17.18	17.14	17.23	
3	256QAM	1	14	17.24	17.27	17.27	
3	256QAM	8	0	17.17	17.32	17.15	17.6
3	256QAM	8	4	17.19	17.26	17.21	
3	256QAM	8	7	17.31	17.21	17.36	
3	256QAM	15	0	17.14	17.33	17.25	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.07	22.01	21.87	22.6
1.4	QPSK	1	3	21.92	21.93	21.71	
1.4	QPSK	1	5	21.93	21.89	21.74	
1.4	QPSK	3	0	21.97	21.82	21.68	
1.4	QPSK	3	1	21.73	21.80	21.53	
1.4	QPSK	3	3	21.83	21.73	21.54	
1.4	QPSK	6	0	21.03	21.00	20.84	21.6
1.4	16QAM	1	0	21.11	21.08	21.04	21.6
1.4	16QAM	1	3	21.02	21.10	21.04	
1.4	16QAM	1	5	20.91	21.15	20.98	
1.4	16QAM	3	0	20.91	20.92	20.84	
1.4	16QAM	3	1	20.91	20.99	20.93	
1.4	16QAM	3	3	20.77	21.01	20.86	20.6
1.4	16QAM	6	0	20.14	19.97	19.91	
1.4	64QAM	1	0	20.11	20.24	20.06	20.6
1.4	64QAM	1	3	20.04	20.20	20.01	
1.4	64QAM	1	5	20.10	20.07	19.72	
1.4	64QAM	3	0	19.95	20.06	19.96	
1.4	64QAM	3	1	19.87	20.09	19.84	
1.4	64QAM	3	3	20.00	19.88	19.52	
1.4	64QAM	6	0	19.09	18.96	18.85	19.6
1.4	256QAM	1	0	17.22	17.36	17.23	17.6
1.4	256QAM	1	3	17.23	17.20	17.18	
1.4	256QAM	1	5	17.19	17.18	17.26	
1.4	256QAM	3	0	17.02	17.25	17.05	
1.4	256QAM	3	1	17.09	17.02	17.00	
1.4	256QAM	3	3	17.08	17.03	17.15	17.6
1.4	256QAM	6	0	17.14	17.34	17.22	



<LTE Band 4_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.53	20.63	20.35	
20	QPSK	1	49	20.36	20.20	20.42	20.6
20	QPSK	1	99	20.25	20.33	20.57	
20	QPSK	50	0	19.48	19.58	19.40	
20	QPSK	50	24	19.35	19.31	19.46	19.6
20	QPSK	50	50	19.28	19.33	19.57	
20	QPSK	100	0	19.35	19.31	19.45	
20	16QAM	1	0	19.59	19.54	19.58	19.6
20	16QAM	1	49	19.45	19.50	19.57	
20	16QAM	1	99	19.42	19.41	19.56	
20	16QAM	50	0	18.51	18.33	18.42	18.6
20	16QAM	50	24	18.40	18.33	18.47	
20	16QAM	50	50	18.30	18.34	18.51	
20	16QAM	100	0	18.36	18.34	18.44	18.6
20	64QAM	1	0	18.59	18.56	18.45	
20	64QAM	1	49	18.58	18.38	18.58	
20	64QAM	1	99	18.42	18.55	18.50	17.6
20	64QAM	50	0	17.50	17.35	17.38	
20	64QAM	50	24	17.37	17.32	17.47	
20	64QAM	50	50	17.32	17.34	17.57	17.6
20	64QAM	100	0	17.35	17.31	17.46	
20	256QAM	1	0	15.08	15.44	15.10	15.6
20	256QAM	1	49	15.23	15.24	15.22	
20	256QAM	1	99	15.22	15.02	15.13	
20	256QAM	50	0	15.15	15.42	15.12	15.6
20	256QAM	50	24	15.15	15.13	15.39	
20	256QAM	50	50	15.08	15.40	15.13	
20	256QAM	100	0	15.01	15.15	15.14	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.51	20.55	20.33	
15	QPSK	1	37	20.35	20.18	20.40	20.6
15	QPSK	1	74	20.23	20.32	20.55	
15	QPSK	36	0	19.46	19.56	19.39	19.6
15	QPSK	36	20	19.34	19.29	19.44	
15	QPSK	36	39	19.26	19.31	19.56	
15	QPSK	75	0	19.34	19.29	19.43	19.6
15	16QAM	1	0	19.57	19.52	19.56	
15	16QAM	1	37	19.44	19.48	19.56	
15	16QAM	1	74	19.41	19.39	19.54	18.6
15	16QAM	36	0	18.50	18.31	18.40	
15	16QAM	36	20	18.38	18.31	18.45	
15	16QAM	36	39	18.28	18.32	18.50	18.6
15	16QAM	75	0	18.34	18.33	18.43	
15	64QAM	1	0	18.57	18.54	18.44	
15	64QAM	1	37	18.56	18.36	18.56	18.6
15	64QAM	1	74	18.41	18.53	18.49	
15	64QAM	36	0	17.48	17.33	17.36	
15	64QAM	36	20	17.35	17.30	17.45	17.6
15	64QAM	36	39	17.30	17.32	17.56	
15	64QAM	75	0	17.33	17.29	17.45	
15	256QAM	1	0	15.06	15.43	15.09	15.6
15	256QAM	1	37	15.22	15.22	15.21	
15	256QAM	1	74	15.21	15.01	15.12	
15	256QAM	36	0	15.14	15.40	15.11	15.6
15	256QAM	36	20	15.13	15.11	15.37	



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15	256QAM	36	39	15.07	15.38	15.12	
15	256QAM	75	0	15.12	15.14	15.13	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.35	20.49	20.23	20.6
10	QPSK	1	25	20.20	20.00	20.30	
10	QPSK	1	49	20.14	20.19	20.38	
10	QPSK	25	0	19.27	19.44	19.28	19.6
10	QPSK	25	12	19.29	19.15	19.39	
10	QPSK	25	25	19.20	19.19	19.54	
10	QPSK	50	0	19.20	19.13	19.29	
10	16QAM	1	0	19.41	19.44	19.46	19.6
10	16QAM	1	25	19.32	19.32	19.38	
10	16QAM	1	49	19.40	19.20	19.38	
10	16QAM	25	0	18.45	18.22	18.29	18.6
10	16QAM	25	12	18.32	18.28	18.25	
10	16QAM	25	25	18.25	18.27	18.38	
10	16QAM	50	0	18.33	18.33	18.26	
10	64QAM	1	0	18.54	18.39	18.40	18.6
10	64QAM	1	25	18.37	18.34	18.54	
10	64QAM	1	49	18.25	18.35	18.34	
10	64QAM	25	0	17.41	17.15	17.16	17.6
10	64QAM	25	12	17.17	17.12	17.39	
10	64QAM	25	25	17.23	17.21	17.43	
10	64QAM	50	0	17.19	17.20	17.28	
10	256QAM	1	0	15.37	15.37	15.05	15.6
10	256QAM	1	25	15.07	15.11	15.14	
10	256QAM	1	49	15.12	15.39	15.05	
10	256QAM	25	0	15.14	15.33	15.03	15.6
10	256QAM	25	12	15.36	15.05	15.23	
10	256QAM	25	25	15.07	15.35	15.00	
10	256QAM	50	0	15.07	15.02	15.36	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.50	20.39	20.17	20.6
5	QPSK	1	12	20.20	20.12	20.35	
5	QPSK	1	24	20.09	20.25	20.44	
5	QPSK	12	0	19.36	19.49	19.20	19.6
5	QPSK	12	7	19.29	19.24	19.32	
5	QPSK	12	13	19.21	19.20	19.49	
5	QPSK	25	0	19.17	19.27	19.29	
5	16QAM	1	0	19.48	19.46	19.41	19.6
5	16QAM	1	12	19.28	19.42	19.51	
5	16QAM	1	24	19.22	19.24	19.44	
5	16QAM	12	0	18.46	18.28	18.39	18.6
5	16QAM	12	7	18.20	18.13	18.45	
5	16QAM	12	13	18.15	18.16	18.30	
5	16QAM	25	0	18.17	18.29	18.29	
5	64QAM	1	0	18.57	18.35	18.37	18.6
5	64QAM	1	12	18.43	18.24	18.42	
5	64QAM	1	24	18.37	18.39	18.40	
5	64QAM	12	0	17.47	17.25	17.26	17.6
5	64QAM	12	7	17.21	17.13	17.36	
5	64QAM	12	13	17.23	17.24	17.48	
5	64QAM	25	0	17.30	17.29	17.35	
5	256QAM	1	0	15.05	15.37	15.04	15.6
5	256QAM	1	12	15.21	15.10	15.07	
5	256QAM	1	24	15.03	15.31	15.39	
5	256QAM	12	0	15.39	15.33	15.40	15.6
5	256QAM	12	7	15.09	15.32	15.26	
5	256QAM	12	13	15.32	15.38	15.09	
5	256QAM	25	0	15.08	15.38	15.35	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.31	20.39	20.20	20.6
3	QPSK	1	8	20.35	20.10	20.23	
3	QPSK	1	14	20.13	20.16	20.45	
3	QPSK	8	0	19.29	19.51	19.27	19.6
3	QPSK	8	4	19.16	19.15	19.43	
3	QPSK	8	7	19.14	19.22	19.40	
3	QPSK	15	0	19.20	19.29	19.34	
3	16QAM	1	0	19.49	19.51	19.39	19.6
3	16QAM	1	8	19.27	19.37	19.54	
3	16QAM	1	14	19.34	19.32	19.46	
3	16QAM	8	0	18.45	18.15	18.30	18.6
3	16QAM	8	4	18.24	18.30	18.29	
3	16QAM	8	7	18.13	18.16	18.36	
3	16QAM	15	0	18.20	18.17	18.42	
3	64QAM	1	0	18.52	18.42	18.25	18.6
3	64QAM	1	8	18.48	18.34	18.37	
3	64QAM	1	14	18.35	18.49	18.32	
3	64QAM	8	0	17.47	17.27	17.34	17.6
3	64QAM	8	4	17.30	17.30	17.44	
3	64QAM	8	7	17.10	17.27	17.39	
3	64QAM	15	0	17.15	17.13	17.27	
3	256QAM	1	0	15.03	15.27	15.36	15.6
3	256QAM	1	8	15.13	15.14	15.02	
3	256QAM	1	14	15.21	15.30	15.02	
3	256QAM	8	0	15.01	15.28	15.01	15.6
3	256QAM	8	4	15.11	15.01	15.28	
3	256QAM	8	7	15.03	15.26	15.10	
3	256QAM	15	0	15.03	15.08	15.08	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.49	20.35	20.33	20.6
1.4	QPSK	1	3	20.30	20.05	20.28	
1.4	QPSK	1	5	20.06	20.28	20.46	
1.4	QPSK	3	0	19.46	19.48	19.33	
1.4	QPSK	3	1	19.25	19.18	19.28	
1.4	QPSK	3	3	19.24	19.30	19.44	
1.4	QPSK	6	0	19.32	19.27	19.39	19.6
1.4	16QAM	1	0	19.45	19.35	19.43	19.6
1.4	16QAM	1	3	19.30	19.32	19.41	
1.4	16QAM	1	5	19.22	19.22	19.50	
1.4	16QAM	3	0	18.33	18.27	18.29	
1.4	16QAM	3	1	18.27	18.22	18.34	
1.4	16QAM	3	3	18.27	18.24	18.38	18.6
1.4	16QAM	6	0	18.15	18.18	18.24	
1.4	64QAM	1	0	18.45	18.38	18.40	18.6
1.4	64QAM	1	3	18.52	18.24	18.38	
1.4	64QAM	1	5	18.41	18.38	18.34	
1.4	64QAM	3	0	17.45	17.16	17.32	
1.4	64QAM	3	1	17.35	17.12	17.30	
1.4	64QAM	3	3	17.25	17.24	17.42	17.6
1.4	64QAM	6	0	17.20	17.16	17.25	
1.4	256QAM	1	0	15.01	15.40	15.08	15.6
1.4	256QAM	1	3	15.18	15.13	15.15	
1.4	256QAM	1	5	15.10	15.32	15.34	
1.4	256QAM	3	0	15.13	15.24	15.02	
1.4	256QAM	3	1	15.06	15.38	15.22	
1.4	256QAM	3	3	15.01	15.25	15.38	15.6
1.4	256QAM	6	0	15.01	15.34	15.34	



<LTE Band 4_Ant 1_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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.53	20.63	20.35	
20	QPSK	1	49	20.36	20.20	20.42	20.6
20	QPSK	1	99	20.25	20.33	20.57	
20	QPSK	50	0	19.48	19.58	19.40	
20	QPSK	50	24	19.35	19.31	19.46	19.6
20	QPSK	50	50	19.28	19.33	19.57	
20	QPSK	100	0	19.35	19.31	19.45	
20	16QAM	1	0	19.59	19.54	19.58	19.6
20	16QAM	1	49	19.45	19.50	19.57	
20	16QAM	1	99	19.42	19.41	19.56	
20	16QAM	50	0	18.51	18.33	18.42	18.6
20	16QAM	50	24	18.40	18.33	18.47	
20	16QAM	50	50	18.30	18.34	18.51	
20	16QAM	100	0	18.36	18.34	18.44	18.6
20	64QAM	1	0	18.59	18.56	18.45	
20	64QAM	1	49	18.58	18.38	18.58	
20	64QAM	1	99	18.42	18.55	18.50	17.6
20	64QAM	50	0	17.50	17.35	17.38	
20	64QAM	50	24	17.37	17.32	17.47	
20	64QAM	50	50	17.32	17.34	17.57	17.6
20	64QAM	100	0	17.35	17.31	17.46	
20	256QAM	1	0	15.17	14.92	15.06	15.6
20	256QAM	1	49	15.25	15.20	15.37	
20	256QAM	1	99	15.15	15.10	15.06	
20	256QAM	50	0	15.14	14.95	15.18	15.6
20	256QAM	50	24	15.17	15.11	15.39	
20	256QAM	50	50	14.93	14.97	15.04	
20	256QAM	100	0	14.98	14.99	15.10	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.36	20.46	20.29	
15	QPSK	1	37	20.19	20.08	20.39	20.6
15	QPSK	1	74	20.15	20.24	20.52	
15	QPSK	36	0	19.40	19.48	19.24	19.6
15	QPSK	36	20	19.15	19.12	19.27	
15	QPSK	36	39	19.08	19.26	19.52	
15	QPSK	75	0	19.34	19.23	19.40	19.6
15	16QAM	1	0	19.40	19.42	19.43	
15	16QAM	1	37	19.41	19.31	19.51	
15	16QAM	1	74	19.37	19.24	19.55	18.6
15	16QAM	36	0	18.37	18.32	18.27	
15	16QAM	36	20	18.20	18.28	18.39	
15	16QAM	36	39	18.24	18.30	18.39	18.6
15	16QAM	75	0	18.19	18.25	18.28	
15	64QAM	1	0	18.52	18.48	18.37	
15	64QAM	1	37	18.44	18.33	18.53	18.6
15	64QAM	1	74	18.40	18.45	18.36	
15	64QAM	36	0	17.48	17.16	17.26	
15	64QAM	36	20	17.33	17.17	17.41	17.6
15	64QAM	36	39	17.26	17.26	17.49	
15	64QAM	75	0	17.34	17.24	17.45	
15	256QAM	1	0	15.14	14.74	15.00	15.6
15	256QAM	1	37	15.19	15.19	15.17	
15	256QAM	1	74	14.99	15.05	14.94	
15	256QAM	36	0	14.96	14.79	15.00	15.6
15	256QAM	36	20	15.03	14.95	15.39	



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15	256QAM	36	39	14.87	14.81	15.01	
15	256QAM	75	0	14.80	14.86	15.10	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.38	20.60	20.23	20.6
10	QPSK	1	25	20.30	20.20	20.22	
10	QPSK	1	49	20.21	20.31	20.44	
10	QPSK	25	0	19.38	19.55	19.31	19.6
10	QPSK	25	12	19.15	19.12	19.27	
10	QPSK	25	25	19.23	19.16	19.53	
10	QPSK	50	0	19.32	19.20	19.30	
10	16QAM	1	0	19.50	19.35	19.50	19.6
10	16QAM	1	25	19.29	19.49	19.42	
10	16QAM	1	49	19.29	19.24	19.51	
10	16QAM	25	0	18.51	18.16	18.33	18.6
10	16QAM	25	12	18.28	18.21	18.46	
10	16QAM	25	25	18.16	18.31	18.51	
10	16QAM	50	0	18.29	18.16	18.28	
10	64QAM	1	0	18.46	18.43	18.39	18.6
10	64QAM	1	25	18.56	18.21	18.42	
10	64QAM	1	49	18.25	18.36	18.41	
10	64QAM	25	0	17.37	17.23	17.18	17.6
10	64QAM	25	12	17.18	17.18	17.43	
10	64QAM	25	25	17.20	17.23	17.43	
10	64QAM	50	0	17.30	17.13	17.31	
10	256QAM	1	0	15.00	14.90	14.98	15.6
10	256QAM	1	25	15.18	15.19	15.17	
10	256QAM	1	49	15.12	15.00	15.05	
10	256QAM	25	0	14.94	14.83	15.13	15.6
10	256QAM	25	12	15.10	15.03	15.30	
10	256QAM	25	25	14.78	14.91	14.98	
10	256QAM	50	0	14.98	14.88	15.06	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.39	20.48	20.18	20.6
5	QPSK	1	12	20.27	20.06	20.38	
5	QPSK	1	24	20.09	20.31	20.40	
5	QPSK	12	0	19.41	19.56	19.39	19.6
5	QPSK	12	7	19.30	19.26	19.43	
5	QPSK	12	13	19.16	19.31	19.52	
5	QPSK	25	0	19.24	19.20	19.41	
5	16QAM	1	0	19.48	19.54	19.42	19.6
5	16QAM	1	12	19.31	19.47	19.38	
5	16QAM	1	24	19.42	19.28	19.51	
5	16QAM	12	0	18.49	18.29	18.40	18.6
5	16QAM	12	7	18.35	18.32	18.44	
5	16QAM	12	13	18.23	18.34	18.31	
5	16QAM	25	0	18.16	18.26	18.35	
5	64QAM	1	0	18.43	18.51	18.37	18.6
5	64QAM	1	12	18.38	18.37	18.49	
5	64QAM	1	24	18.22	18.35	18.48	
5	64QAM	12	0	17.34	17.27	17.28	17.6
5	64QAM	12	7	17.18	17.12	17.44	
5	64QAM	12	13	17.21	17.20	17.53	
5	64QAM	25	0	17.15	17.24	17.29	
5	256QAM	1	0	15.15	14.78	14.98	15.6
5	256QAM	1	12	15.08	15.20	15.30	
5	256QAM	1	24	14.97	14.96	14.95	
5	256QAM	12	0	15.06	14.83	15.02	15.6
5	256QAM	12	7	14.98	14.93	15.23	
5	256QAM	12	13	14.80	14.84	14.85	
5	256QAM	25	0	14.94	14.79	14.96	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.44	20.50	20.29	20.6
3	QPSK	1	8	20.22	20.01	20.22	
3	QPSK	1	14	20.15	20.29	20.51	
3	QPSK	8	0	19.38	19.40	19.36	19.6
3	QPSK	8	4	19.29	19.20	19.41	
3	QPSK	8	7	19.17	19.21	19.39	
3	QPSK	15	0	19.30	19.22	19.33	
3	16QAM	1	0	19.52	19.37	19.57	19.6
3	16QAM	1	8	19.40	19.47	19.55	
3	16QAM	1	14	19.23	19.40	19.53	
3	16QAM	8	0	18.41	18.27	18.34	18.6
3	16QAM	8	4	18.38	18.19	18.41	
3	16QAM	8	7	18.20	18.32	18.34	
3	16QAM	15	0	18.36	18.34	18.27	
3	64QAM	1	0	18.39	18.37	18.35	18.6
3	64QAM	1	8	18.38	18.35	18.52	
3	64QAM	1	14	18.27	18.48	18.33	
3	64QAM	8	0	17.48	17.16	17.28	17.6
3	64QAM	8	4	17.24	17.18	17.36	
3	64QAM	8	7	17.15	17.14	17.39	
3	64QAM	15	0	17.19	17.21	17.46	
3	256QAM	1	0	15.09	14.84	14.94	15.6
3	256QAM	1	8	15.19	15.03	15.19	
3	256QAM	1	14	14.99	15.02	14.93	
3	256QAM	8	0	15.10	14.94	15.10	15.6
3	256QAM	8	4	15.14	14.92	15.32	
3	256QAM	8	7	14.90	14.78	14.93	
3	256QAM	15	0	14.89	14.85	15.04	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.38	20.52	20.23	20.6
1.4	QPSK	1	3	20.27	20.15	20.27	
1.4	QPSK	1	5	20.19	20.16	20.44	
1.4	QPSK	3	0	19.31	19.56	19.20	
1.4	QPSK	3	1	19.25	19.12	19.39	
1.4	QPSK	3	3	19.11	19.29	19.44	
1.4	QPSK	6	0	19.25	19.28	19.39	19.6
1.4	16QAM	1	0	19.49	19.53	19.45	19.6
1.4	16QAM	1	3	19.28	19.31	19.37	
1.4	16QAM	1	5	19.22	19.35	19.43	
1.4	16QAM	3	0	18.38	18.17	18.39	
1.4	16QAM	3	1	18.33	18.32	18.32	
1.4	16QAM	3	3	18.21	18.14	18.32	
1.4	16QAM	6	0	18.35	18.18	18.34	18.6
1.4	64QAM	1	0	18.42	18.42	18.36	18.6
1.4	64QAM	1	3	18.42	18.18	18.38	
1.4	64QAM	1	5	18.41	18.49	18.40	
1.4	64QAM	3	0	17.41	17.22	17.25	
1.4	64QAM	3	1	17.29	17.12	17.41	
1.4	64QAM	3	3	17.20	17.27	17.46	
1.4	64QAM	6	0	17.29	17.13	17.43	17.6
1.4	256QAM	1	0	15.12	14.82	14.94	15.6
1.4	256QAM	1	3	15.20	15.14	15.20	
1.4	256QAM	1	5	15.08	15.08	15.02	
1.4	256QAM	3	0	15.01	14.79	15.17	
1.4	256QAM	3	1	15.07	14.95	15.34	
1.4	256QAM	3	3	14.82	14.86	14.92	
1.4	256QAM	6	0	14.89	14.90	15.01	15.6



<LTE Band 5_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.52	25.68	25.59	
10	QPSK	1	25	25.45	25.60	25.52	25.7
10	QPSK	1	49	25.32	25.57	25.49	
10	QPSK	25	0	24.60	24.70	24.63	
10	QPSK	25	12	24.51	24.55	24.63	24.7
10	QPSK	25	25	24.46	24.66	24.62	
10	QPSK	50	0	24.51	24.61	24.58	
10	16QAM	1	0	24.48	24.69	24.67	24.7
10	16QAM	1	25	24.70	24.59	24.70	
10	16QAM	1	49	24.69	24.69	24.59	
10	16QAM	25	0	23.62	23.70	23.57	23.7
10	16QAM	25	12	23.50	23.70	23.59	
10	16QAM	25	25	23.45	23.67	23.60	
10	16QAM	50	0	23.47	23.57	23.58	23.7
10	64QAM	1	0	23.70	23.41	23.70	
10	64QAM	1	25	23.68	23.60	23.67	
10	64QAM	1	49	23.70	23.51	23.65	22.7
10	64QAM	25	0	22.57	22.67	22.56	
10	64QAM	25	12	22.51	22.70	22.62	
10	64QAM	25	25	22.45	22.69	22.57	20.7
10	64QAM	50	0	22.50	22.60	22.59	
10	256QAM	1	0	20.49	20.69	20.58	
10	256QAM	1	25	20.40	20.65	20.48	20.7
10	256QAM	1	49	20.41	20.64	20.46	
10	256QAM	25	0	20.46	20.67	20.51	
10	256QAM	25	12	20.41	20.66	20.57	20.7
10	256QAM	25	25	20.44	20.69	20.53	
10	256QAM	50	0	20.44	20.67	20.55	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	25.46	25.64	25.47	25.7
5	QPSK	1	12	25.40	25.53	25.40	
5	QPSK	1	24	25.21	25.44	25.43	
5	QPSK	12	0	24.49	24.51	24.50	24.7
5	QPSK	12	7	24.34	24.46	24.57	
5	QPSK	12	13	24.29	24.66	24.42	
5	QPSK	25	0	24.32	24.50	24.51	24.7
5	16QAM	1	0	24.40	24.54	24.50	
5	16QAM	1	12	24.52	24.43	24.56	
5	16QAM	1	24	24.57	24.65	24.46	23.7
5	16QAM	12	0	23.57	23.62	23.39	
5	16QAM	12	7	23.43	23.66	23.53	
5	16QAM	12	13	23.35	23.53	23.48	23.7
5	16QAM	25	0	23.28	23.54	23.56	
5	64QAM	1	0	23.53	23.23	23.63	
5	64QAM	1	12	23.51	23.60	23.63	22.7
5	64QAM	1	24	23.68	23.45	23.63	
5	64QAM	12	0	22.47	22.64	22.52	
5	64QAM	12	7	22.50	22.61	22.44	20.7
5	64QAM	12	13	22.42	22.67	22.46	
5	64QAM	25	0	22.41	22.42	22.49	
5	256QAM	1	0	20.37	20.63	20.46	20.7
5	256QAM	1	12	20.36	20.47	20.30	
5	256QAM	1	24	20.23	20.44	20.30	
5	256QAM	12	0	20.32	20.58	20.41	20.7
5	256QAM	12	7	20.31	20.53	20.39	
5	256QAM	12	13	20.39	20.58	20.44	



FCC SAR TEST REPORT

Report No. : FA4O2228B

5	256QAM	25	0	20.43	20.66	20.52	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	25.34	25.63	25.46	25.7
3	QPSK	1	8	25.34	25.42	25.38	
3	QPSK	1	14	25.26	25.44	25.31	
3	QPSK	8	0	24.41	24.55	24.54	24.7
3	QPSK	8	4	24.36	24.37	24.43	
3	QPSK	8	7	24.28	24.58	24.61	
3	QPSK	15	0	24.38	24.46	24.41	
3	16QAM	1	0	24.43	24.56	24.49	24.7
3	16QAM	1	8	24.57	24.57	24.55	
3	16QAM	1	14	24.62	24.65	24.40	
3	16QAM	8	0	23.60	23.63	23.37	23.7
3	16QAM	8	4	23.34	23.60	23.48	
3	16QAM	8	7	23.28	23.49	23.42	
3	16QAM	15	0	23.39	23.39	23.45	
3	64QAM	1	0	23.66	23.35	23.64	23.7
3	64QAM	1	8	23.56	23.49	23.58	
3	64QAM	1	14	23.53	23.37	23.63	
3	64QAM	8	0	22.54	22.61	22.50	22.7
3	64QAM	8	4	22.41	22.63	22.50	
3	64QAM	8	7	22.27	22.69	22.56	
3	64QAM	15	0	22.30	22.51	22.55	
3	256QAM	1	0	20.38	20.63	20.47	20.7
3	256QAM	1	8	20.30	20.49	20.35	
3	256QAM	1	14	20.21	20.56	20.31	
3	256QAM	8	0	20.38	20.53	20.39	20.7
3	256QAM	8	4	20.40	20.51	20.40	
3	256QAM	8	7	20.28	20.51	20.53	
3	256QAM	15	0	20.40	20.53	20.44	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.49	25.64	25.41	25.7
1.4	QPSK	1	3	25.25	25.53	25.49	
1.4	QPSK	1	5	25.13	25.53	25.42	
1.4	QPSK	3	0	25.39	25.64	25.48	
1.4	QPSK	3	1	25.28	25.47	25.52	
1.4	QPSK	3	3	25.26	25.49	25.36	
1.4	QPSK	6	0	24.44	24.67	24.43	24.7
1.4	16QAM	1	0	24.41	24.49	24.50	24.7
1.4	16QAM	1	3	24.36	24.52	24.57	
1.4	16QAM	1	5	24.40	24.49	24.58	
1.4	16QAM	3	0	24.47	24.53	24.67	
1.4	16QAM	3	1	24.64	24.50	24.70	
1.4	16QAM	3	3	24.57	24.50	24.59	
1.4	16QAM	6	0	23.53	23.52	23.38	23.7
1.4	64QAM	1	0	23.31	23.61	23.40	23.7
1.4	64QAM	1	3	23.33	23.57	23.45	
1.4	64QAM	1	5	23.40	23.48	23.51	
1.4	64QAM	3	0	23.50	23.33	23.62	
1.4	64QAM	3	1	23.57	23.47	23.63	
1.4	64QAM	3	3	23.54	23.49	23.45	
1.4	64QAM	6	0	22.47	22.58	22.43	22.7
1.4	256QAM	1	0	20.43	20.66	20.43	20.7
1.4	256QAM	1	3	20.28	20.46	20.37	
1.4	256QAM	1	5	20.24	20.48	20.30	
1.4	256QAM	3	0	20.33	20.65	20.39	
1.4	256QAM	3	1	20.26	20.63	20.51	
1.4	256QAM	3	3	20.30	20.61	20.44	
1.4	256QAM	6	0	20.44	20.49	20.41	20.7



<LTE Band 5_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.52	25.68	25.59	
10	QPSK	1	25	25.45	25.60	25.52	25.7
10	QPSK	1	49	25.32	25.57	25.49	
10	QPSK	25	0	24.60	24.70	24.63	
10	QPSK	25	12	24.51	24.55	24.63	24.7
10	QPSK	25	25	24.46	24.66	24.62	
10	QPSK	50	0	24.51	24.61	24.58	
10	16QAM	1	0	24.48	24.69	24.67	24.7
10	16QAM	1	25	24.70	24.59	24.70	
10	16QAM	1	49	24.69	24.69	24.59	
10	16QAM	25	0	23.62	23.70	23.57	23.7
10	16QAM	25	12	23.50	23.70	23.59	
10	16QAM	25	25	23.45	23.67	23.60	
10	16QAM	50	0	23.47	23.57	23.58	23.7
10	64QAM	1	0	23.70	23.41	23.70	
10	64QAM	1	25	23.68	23.60	23.67	
10	64QAM	1	49	23.70	23.51	23.65	22.7
10	64QAM	25	0	22.57	22.67	22.56	
10	64QAM	25	12	22.51	22.70	22.62	
10	64QAM	25	25	22.45	22.69	22.57	20.7
10	64QAM	50	0	22.50	22.60	22.59	
10	256QAM	1	0	20.49	20.69	20.58	
10	256QAM	1	25	20.40	20.65	20.48	20.7
10	256QAM	1	49	20.41	20.64	20.46	
10	256QAM	25	0	20.46	20.67	20.51	
10	256QAM	25	12	20.41	20.66	20.57	20.7
10	256QAM	25	25	20.44	20.69	20.53	
10	256QAM	50	0	20.44	20.67	20.55	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	25.46	25.64	25.47	25.7
5	QPSK	1	12	25.40	25.53	25.40	
5	QPSK	1	24	25.21	25.44	25.43	
5	QPSK	12	0	24.49	24.51	24.50	24.7
5	QPSK	12	7	24.34	24.46	24.57	
5	QPSK	12	13	24.29	24.66	24.42	
5	QPSK	25	0	24.32	24.50	24.51	24.7
5	16QAM	1	0	24.40	24.54	24.50	
5	16QAM	1	12	24.52	24.43	24.56	
5	16QAM	1	24	24.57	24.65	24.46	23.7
5	16QAM	12	0	23.57	23.62	23.39	
5	16QAM	12	7	23.43	23.66	23.53	
5	16QAM	12	13	23.35	23.53	23.48	23.7
5	16QAM	25	0	23.28	23.54	23.56	
5	64QAM	1	0	23.53	23.23	23.63	
5	64QAM	1	12	23.51	23.60	23.63	22.7
5	64QAM	1	24	23.68	23.45	23.63	
5	64QAM	12	0	22.47	22.64	22.52	
5	64QAM	12	7	22.50	22.61	22.44	20.7
5	64QAM	12	13	22.42	22.67	22.46	
5	64QAM	25	0	22.41	22.42	22.49	
5	256QAM	1	0	20.37	20.63	20.46	20.7
5	256QAM	1	12	20.36	20.47	20.30	
5	256QAM	1	24	20.23	20.44	20.30	
5	256QAM	12	0	20.32	20.58	20.41	20.7
5	256QAM	12	7	20.31	20.53	20.39	
5	256QAM	12	13	20.39	20.58	20.44	



FCC SAR TEST REPORT

Report No. : FA4O2228B

5	256QAM	25	0	20.43	20.66	20.52	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	25.34	25.63	25.46	25.7
3	QPSK	1	8	25.34	25.42	25.38	
3	QPSK	1	14	25.26	25.44	25.31	
3	QPSK	8	0	24.41	24.55	24.54	24.7
3	QPSK	8	4	24.36	24.37	24.43	
3	QPSK	8	7	24.28	24.58	24.61	
3	QPSK	15	0	24.38	24.46	24.41	24.7
3	16QAM	1	0	24.43	24.56	24.49	
3	16QAM	1	8	24.57	24.57	24.55	
3	16QAM	1	14	24.62	24.65	24.40	23.7
3	16QAM	8	0	23.60	23.63	23.37	
3	16QAM	8	4	23.34	23.60	23.48	
3	16QAM	8	7	23.28	23.49	23.42	23.7
3	16QAM	15	0	23.39	23.39	23.45	
3	64QAM	1	0	23.66	23.35	23.64	
3	64QAM	1	8	23.56	23.49	23.58	23.7
3	64QAM	1	14	23.53	23.37	23.63	
3	64QAM	8	0	22.54	22.61	22.50	22.7
3	64QAM	8	4	22.41	22.63	22.50	
3	64QAM	8	7	22.27	22.69	22.56	
3	64QAM	15	0	22.30	22.51	22.55	20.7
3	256QAM	1	0	20.38	20.63	20.47	
3	256QAM	1	8	20.30	20.49	20.35	
3	256QAM	1	14	20.21	20.56	20.31	20.7
3	256QAM	8	0	20.38	20.53	20.39	
3	256QAM	8	4	20.40	20.51	20.40	
3	256QAM	8	7	20.28	20.51	20.53	20.7
3	256QAM	15	0	20.40	20.53	20.44	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.49	25.64	25.41	25.7
1.4	QPSK	1	3	25.25	25.53	25.49	
1.4	QPSK	1	5	25.13	25.53	25.42	
1.4	QPSK	3	0	25.39	25.64	25.48	24.7
1.4	QPSK	3	1	25.28	25.47	25.52	
1.4	QPSK	3	3	25.26	25.49	25.36	
1.4	QPSK	6	0	24.44	24.67	24.43	24.7
1.4	16QAM	1	0	24.41	24.49	24.50	
1.4	16QAM	1	3	24.36	24.52	24.57	
1.4	16QAM	1	5	24.40	24.49	24.58	23.7
1.4	16QAM	3	0	24.47	24.53	24.67	
1.4	16QAM	3	1	24.64	24.50	24.70	
1.4	16QAM	3	3	24.57	24.50	24.59	23.7
1.4	16QAM	6	0	23.53	23.52	23.38	
1.4	64QAM	1	0	23.31	23.61	23.40	
1.4	64QAM	1	3	23.33	23.57	23.45	22.7
1.4	64QAM	1	5	23.40	23.48	23.51	
1.4	64QAM	3	0	23.50	23.33	23.62	
1.4	64QAM	3	1	23.57	23.47	23.63	20.7
1.4	64QAM	3	3	23.54	23.49	23.45	
1.4	64QAM	6	0	22.47	22.58	22.43	
1.4	256QAM	1	0	20.43	20.66	20.43	20.7
1.4	256QAM	1	3	20.28	20.46	20.37	
1.4	256QAM	1	5	20.24	20.48	20.30	
1.4	256QAM	3	0	20.33	20.65	20.39	20.7
1.4	256QAM	3	1	20.26	20.63	20.51	
1.4	256QAM	3	3	20.30	20.61	20.44	
1.4	256QAM	6	0	20.44	20.49	20.41	20.7



<LTE Band 5_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.05	23.13	22.91	
10	QPSK	1	25	23.00	22.92	23.08	23.5
10	QPSK	1	49	22.90	22.95	23.12	
10	QPSK	25	0	22.10	22.21	22.05	
10	QPSK	25	12	22.00	21.94	22.09	22.5
10	QPSK	25	25	21.96	21.94	22.20	
10	QPSK	50	0	22.00	22.01	22.18	
10	16QAM	1	0	22.33	22.30	22.20	22.5
10	16QAM	1	25	22.36	22.23	22.32	
10	16QAM	1	49	22.23	22.22	22.40	
10	16QAM	25	0	21.09	20.96	21.07	21.5
10	16QAM	25	12	21.05	20.97	21.11	
10	16QAM	25	25	21.00	20.94	21.17	
10	16QAM	50	0	21.00	20.94	21.18	21.5
10	64QAM	1	0	21.17	21.15	21.10	
10	64QAM	1	25	21.13	21.09	21.31	
10	64QAM	1	49	21.06	21.19	21.32	20.5
10	64QAM	25	0	20.06	19.95	20.04	
10	64QAM	25	12	20.03	19.99	20.10	
10	64QAM	25	25	20.01	19.98	20.21	18.5
10	64QAM	50	0	19.98	19.97	20.18	
10	256QAM	1	0	17.87	17.53	17.88	
10	256QAM	1	25	17.72	17.78	17.99	18.5
10	256QAM	1	49	17.81	17.51	17.82	
10	256QAM	25	0	17.83	17.87	17.68	
10	256QAM	25	12	17.77	17.53	17.94	18.5
10	256QAM	25	25	17.66	17.49	18.06	
10	256QAM	50	0	17.50	17.46	17.91	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.95	22.98	22.77	
5	QPSK	1	12	23.00	22.73	22.96	23.5
5	QPSK	1	24	22.89	22.77	23.07	
5	QPSK	12	0	22.04	22.11	22.01	22.5
5	QPSK	12	7	21.98	21.77	21.91	
5	QPSK	12	13	21.83	21.82	22.14	
5	QPSK	25	0	21.93	21.91	22.15	22.5
5	16QAM	1	0	22.26	22.30	22.14	
5	16QAM	1	12	22.34	22.06	22.24	
5	16QAM	1	24	22.17	22.14	22.20	21.5
5	16QAM	12	0	21.08	20.87	21.04	
5	16QAM	12	7	21.03	20.90	21.02	
5	16QAM	12	13	20.84	20.89	21.01	21.5
5	16QAM	25	0	20.97	20.93	20.99	
5	64QAM	1	0	21.04	20.97	21.10	
5	64QAM	1	12	21.09	20.90	21.16	20.5
5	64QAM	1	24	20.97	21.10	21.18	
5	64QAM	12	0	19.87	19.87	20.00	
5	64QAM	12	7	19.92	19.86	19.92	18.5
5	64QAM	12	13	19.88	19.81	20.04	
5	64QAM	25	0	19.97	19.89	20.15	
5	256QAM	1	0	17.73	17.51	17.72	18.5
5	256QAM	1	12	17.58	17.60	17.97	
5	256QAM	1	24	17.80	17.41	17.69	
5	256QAM	12	0	17.63	17.77	17.58	18.5
5	256QAM	12	7	17.77	17.41	17.83	
5	256QAM	12	13	17.64	17.44	17.86	



FCC SAR TEST REPORT

Report No. : FA4O2228B

5	256QAM	25	0	17.49	17.31	17.85	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.88	22.95	22.73	23.5
3	QPSK	1	8	22.97	22.83	22.92	
3	QPSK	1	14	22.83	22.87	23.06	
3	QPSK	8	0	21.98	22.04	21.87	22.5
3	QPSK	8	4	21.82	21.94	21.89	
3	QPSK	8	7	21.81	21.75	22.07	
3	QPSK	15	0	21.97	22.00	22.01	22.5
3	16QAM	1	0	22.15	22.10	22.01	
3	16QAM	1	8	22.36	22.04	22.17	
3	16QAM	1	14	22.16	22.22	22.20	21.5
3	16QAM	8	0	21.02	20.76	20.93	
3	16QAM	8	4	21.04	20.77	21.07	
3	16QAM	8	7	20.89	20.89	21.07	21.5
3	16QAM	15	0	20.92	20.89	21.12	
3	64QAM	1	0	21.00	21.05	21.10	
3	64QAM	1	8	21.03	20.97	21.16	21.5
3	64QAM	1	14	21.02	21.05	21.26	
3	64QAM	8	0	19.96	19.89	19.87	20.5
3	64QAM	8	4	19.92	19.92	20.03	
3	64QAM	8	7	19.96	19.86	20.20	
3	64QAM	15	0	19.81	19.89	20.14	18.5
3	256QAM	1	0	17.83	17.37	17.70	
3	256QAM	1	8	17.62	17.72	17.80	
3	256QAM	1	14	17.62	17.44	17.77	18.5
3	256QAM	8	0	17.69	17.69	17.50	
3	256QAM	8	4	17.65	17.53	17.94	
3	256QAM	8	7	17.65	17.37	17.91	18.5
3	256QAM	15	0	17.50	17.28	17.73	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.99	23.10	22.72	23.5
1.4	QPSK	1	3	22.87	22.88	23.01	
1.4	QPSK	1	5	22.70	22.93	22.99	
1.4	QPSK	3	0	21.99	22.01	21.85	22.5
1.4	QPSK	3	1	21.92	21.79	21.96	
1.4	QPSK	3	3	21.78	21.77	22.00	
1.4	QPSK	6	0	21.82	21.95	22.18	22.5
1.4	16QAM	1	0	22.20	22.15	22.17	
1.4	16QAM	1	3	22.27	22.14	22.29	
1.4	16QAM	1	5	22.08	22.03	22.40	22.5
1.4	16QAM	3	0	21.04	20.95	20.90	
1.4	16QAM	3	1	20.85	20.92	21.05	
1.4	16QAM	3	3	20.94	20.81	21.03	21.5
1.4	16QAM	6	0	20.96	20.74	21.17	
1.4	64QAM	1	0	20.97	20.95	21.00	
1.4	64QAM	1	3	21.13	20.90	21.11	21.5
1.4	64QAM	1	5	21.04	21.06	21.20	
1.4	64QAM	3	0	19.92	19.80	20.00	
1.4	64QAM	3	1	19.98	19.98	20.00	20.5
1.4	64QAM	3	3	19.86	19.89	20.16	
1.4	64QAM	6	0	19.93	19.83	20.04	
1.4	256QAM	1	0	17.86	17.50	17.79	18.5
1.4	256QAM	1	3	17.59	17.58	17.98	
1.4	256QAM	1	5	17.70	17.32	17.77	
1.4	256QAM	3	0	17.75	17.80	17.63	18.5
1.4	256QAM	3	1	17.70	17.44	17.83	
1.4	256QAM	3	3	17.51	17.41	17.91	
1.4	256QAM	6	0	17.40	17.46	17.87	18.5



<LTE Band 5_Ant 1_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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.05	23.13	22.91	23.5
10	QPSK	1	25	23.00	22.92	23.08	
10	QPSK	1	49	22.90	22.95	23.12	
10	QPSK	25	0	22.10	22.21	22.05	22.5
10	QPSK	25	12	22.00	21.94	22.09	
10	QPSK	25	25	21.96	21.94	22.20	
10	QPSK	50	0	22.00	22.01	22.18	22.5
10	16QAM	1	0	22.33	22.30	22.20	
10	16QAM	1	25	22.36	22.23	22.32	
10	16QAM	1	49	22.23	22.22	22.40	21.5
10	16QAM	25	0	21.09	20.96	21.07	
10	16QAM	25	12	21.05	20.97	21.11	
10	16QAM	25	25	21.00	20.94	21.17	21.5
10	16QAM	50	0	21.00	20.94	21.18	
10	64QAM	1	0	21.17	21.15	21.10	
10	64QAM	1	25	21.13	21.09	21.31	21.5
10	64QAM	1	49	21.06	21.19	21.32	
10	64QAM	25	0	20.06	19.95	20.04	20.5
10	64QAM	25	12	20.03	19.99	20.10	
10	64QAM	25	25	20.01	19.98	20.21	
10	64QAM	50	0	19.98	19.97	20.18	18.5
10	256QAM	1	0	17.80	17.70	17.75	
10	256QAM	1	25	17.71	17.73	18.01	
10	256QAM	1	49	17.77	17.56	17.79	18.5
10	256QAM	25	0	17.77	17.78	17.85	
10	256QAM	25	12	17.69	17.52	17.95	
10	256QAM	25	25	17.66	17.55	18.00	18.5
10	256QAM	50	0	17.51	17.57	17.95	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.05	23.00	22.91	23.5
5	QPSK	1	12	22.80	22.79	22.94	
5	QPSK	1	24	22.83	22.83	23.06	
5	QPSK	12	0	21.91	22.02	22.03	22.5
5	QPSK	12	7	21.86	21.76	21.91	
5	QPSK	12	13	21.84	21.75	22.14	
5	QPSK	25	0	21.92	21.85	22.10	22.5
5	16QAM	1	0	22.30	22.21	22.10	
5	16QAM	1	12	22.31	22.12	22.13	
5	16QAM	1	24	22.19	22.03	22.21	21.5
5	16QAM	12	0	21.01	20.82	21.05	
5	16QAM	12	7	20.91	20.79	20.99	
5	16QAM	12	13	21.00	20.88	21.13	21.5
5	16QAM	25	0	20.84	20.86	21.01	
5	64QAM	1	0	21.14	20.98	21.03	
5	64QAM	1	12	20.98	21.07	21.11	21.5
5	64QAM	1	24	20.96	21.18	21.24	
5	64QAM	12	0	20.06	19.85	19.97	
5	64QAM	12	7	19.83	19.86	19.93	20.5
5	64QAM	12	13	19.93	19.81	20.06	
5	64QAM	25	0	19.92	19.88	20.09	
5	256QAM	1	0	17.80	17.65	17.73	18.5
5	256QAM	1	12	17.62	17.63	17.90	
5	256QAM	1	24	17.63	17.53	17.77	
5	256QAM	12	0	17.66	17.72	17.71	18.5
5	256QAM	12	7	17.69	17.38	17.87	
5	256QAM	12	13	17.50	17.41	17.95	



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5	256QAM	25	0	17.41	17.48	17.78	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.05	22.99	22.89	23.5
3	QPSK	1	8	22.85	22.82	23.05	
3	QPSK	1	14	22.89	22.76	23.11	
3	QPSK	8	0	21.98	22.04	22.01	22.5
3	QPSK	8	4	21.95	21.91	21.98	
3	QPSK	8	7	21.81	21.82	22.11	
3	QPSK	15	0	21.98	21.85	22.00	22.5
3	16QAM	1	0	22.18	22.12	22.20	
3	16QAM	1	8	22.18	22.20	22.31	
3	16QAM	1	14	22.10	22.11	22.26	21.5
3	16QAM	8	0	21.00	20.76	20.95	
3	16QAM	8	4	20.90	20.95	20.95	
3	16QAM	8	7	20.92	20.77	21.11	21.5
3	16QAM	15	0	20.96	20.79	21.17	
3	64QAM	1	0	21.00	20.99	21.04	
3	64QAM	1	8	21.03	20.95	21.15	21.5
3	64QAM	1	14	20.95	21.18	21.14	
3	64QAM	8	0	19.97	19.87	19.87	20.5
3	64QAM	8	4	19.89	19.79	19.95	
3	64QAM	8	7	19.83	19.84	20.11	
3	64QAM	15	0	19.92	19.79	20.15	18.5
3	256QAM	1	0	17.62	17.53	17.71	
3	256QAM	1	8	17.59	17.73	17.89	
3	256QAM	1	14	17.71	17.39	17.78	18.5
3	256QAM	8	0	17.58	17.66	17.79	
3	256QAM	8	4	17.69	17.32	17.80	
3	256QAM	8	7	17.58	17.35	17.87	18.5
3	256QAM	15	0	17.36	17.48	17.90	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.97	23.01	22.88	23.5
1.4	QPSK	1	3	23.00	22.72	22.96	
1.4	QPSK	1	5	22.83	22.83	22.94	
1.4	QPSK	3	0	21.92	22.04	21.86	22.5
1.4	QPSK	3	1	21.95	21.74	21.98	
1.4	QPSK	3	3	21.93	21.79	22.00	
1.4	QPSK	6	0	21.97	21.94	22.13	22.5
1.4	16QAM	1	0	22.31	22.23	22.19	
1.4	16QAM	1	3	22.19	22.19	22.12	
1.4	16QAM	1	5	22.06	22.12	22.25	21.5
1.4	16QAM	3	0	21.02	20.86	20.93	
1.4	16QAM	3	1	21.02	20.77	21.08	
1.4	16QAM	3	3	20.97	20.82	21.00	21.5
1.4	16QAM	6	0	20.88	20.85	20.98	
1.4	64QAM	1	0	21.13	21.11	21.04	
1.4	64QAM	1	3	21.01	20.96	21.19	21.5
1.4	64QAM	1	5	21.01	21.09	21.20	
1.4	64QAM	3	0	20.03	19.84	20.03	
1.4	64QAM	3	1	19.92	19.93	19.93	20.5
1.4	64QAM	3	3	19.94	19.88	20.07	
1.4	64QAM	6	0	19.91	19.87	20.01	
1.4	256QAM	1	0	17.60	17.60	17.57	18.5
1.4	256QAM	1	3	17.58	17.65	18.00	
1.4	256QAM	1	5	17.59	17.41	17.70	
1.4	256QAM	3	0	17.77	17.72	17.76	18.5
1.4	256QAM	3	1	17.55	17.42	17.75	
1.4	256QAM	3	3	17.57	17.52	17.96	
1.4	256QAM	6	0	17.34	17.45	17.93	18.5



<LTE Band 7_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	25.34	25.50	25.38	
20	QPSK	1	49	25.19	25.44	25.32	25.7
20	QPSK	1	99	25.15	25.33	25.20	
20	QPSK	50	0	24.47	24.67	24.45	
20	QPSK	50	24	24.44	24.66	24.44	24.7
20	QPSK	50	50	24.33	24.58	24.45	
20	QPSK	100	0	24.37	24.54	24.42	
20	16QAM	1	0	24.48	24.68	24.46	24.7
20	16QAM	1	49	24.48	24.70	24.52	
20	16QAM	1	99	24.45	24.69	24.52	
20	16QAM	50	0	23.33	23.57	23.40	23.7
20	16QAM	50	24	23.46	23.64	23.47	
20	16QAM	50	50	23.32	23.58	23.45	
20	16QAM	100	0	23.34	23.55	23.43	23.7
20	64QAM	1	0	23.46	23.64	23.51	
20	64QAM	1	49	23.42	23.62	23.47	
20	64QAM	1	99	23.40	23.61	23.46	22.7
20	64QAM	50	0	22.34	22.56	22.40	
20	64QAM	50	24	22.40	22.65	22.43	
20	64QAM	50	50	22.38	22.56	22.36	20.7
20	64QAM	100	0	22.35	22.54	22.40	
20	256QAM	1	0	20.32	20.51	20.30	
20	256QAM	1	49	20.38	20.56	20.35	20.7
20	256QAM	1	99	20.39	20.61	20.40	
20	256QAM	50	0	20.32	20.54	20.32	
20	256QAM	50	24	20.37	20.62	20.47	20.7
20	256QAM	50	50	20.43	20.63	20.44	
20	256QAM	100	0	20.39	20.56	20.39	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	25.25	25.39	25.36	
15	QPSK	1	37	25.13	25.31	25.18	25.7
15	QPSK	1	74	25.00	25.18	25.11	
15	QPSK	36	0	24.43	24.48	24.34	24.7
15	QPSK	36	20	24.39	24.60	24.29	
15	QPSK	36	39	24.28	24.56	24.42	
15	QPSK	75	0	24.18	24.36	24.39	24.7
15	16QAM	1	0	24.47	24.59	24.35	
15	16QAM	1	37	24.28	24.61	24.50	
15	16QAM	1	74	24.43	24.67	24.51	23.7
15	16QAM	36	0	23.26	23.55	23.36	
15	16QAM	36	20	23.45	23.56	23.29	
15	16QAM	36	39	23.22	23.42	23.26	23.7
15	16QAM	75	0	23.22	23.50	23.31	
15	64QAM	1	0	23.38	23.51	23.44	
15	64QAM	1	37	23.22	23.48	23.40	22.7
15	64QAM	1	74	23.22	23.51	23.36	
15	64QAM	36	0	22.18	22.47	22.30	
15	64QAM	36	20	22.23	22.53	22.23	20.7
15	64QAM	36	39	22.28	22.45	22.25	
15	64QAM	75	0	22.22	22.41	22.40	
15	256QAM	1	0	20.12	20.40	20.21	20.7
15	256QAM	1	37	20.25	20.38	20.29	
15	256QAM	1	74	20.35	20.55	20.34	
15	256QAM	36	0	20.22	20.45	20.28	20.7
15	256QAM	36	20	20.25	20.45	20.40	
15	256QAM	36	39	20.33	20.58	20.34	



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15	256QAM	75	0	20.20	20.55	20.22	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	25.18	25.46	25.25	25.7
10	QPSK	1	25	24.99	25.24	25.32	
10	QPSK	1	49	25.12	25.23	25.16	
10	QPSK	25	0	24.33	24.61	24.43	24.7
10	QPSK	25	12	24.29	24.51	24.39	
10	QPSK	25	25	24.28	24.56	24.33	
10	QPSK	50	0	24.20	24.54	24.36	
10	16QAM	1	0	24.45	24.68	24.34	24.7
10	16QAM	1	25	24.42	24.53	24.38	
10	16QAM	1	49	24.29	24.62	24.48	
10	16QAM	25	0	23.27	23.48	23.26	23.7
10	16QAM	25	12	23.33	23.48	23.30	
10	16QAM	25	25	23.20	23.58	23.33	
10	16QAM	50	0	23.19	23.49	23.26	
10	64QAM	1	0	23.42	23.61	23.31	23.7
10	64QAM	1	25	23.35	23.56	23.28	
10	64QAM	1	49	23.27	23.45	23.40	
10	64QAM	25	0	22.28	22.37	22.39	22.7
10	64QAM	25	12	22.21	22.47	22.36	
10	64QAM	25	25	22.37	22.43	22.32	
10	64QAM	50	0	22.31	22.37	22.34	
10	256QAM	1	0	20.22	20.31	20.19	20.7
10	256QAM	1	25	20.36	20.51	20.31	
10	256QAM	1	49	20.33	20.47	20.28	
10	256QAM	25	0	20.19	20.45	20.27	20.7
10	256QAM	25	12	20.23	20.60	20.43	
10	256QAM	25	25	20.30	20.61	20.29	
10	256QAM	50	0	20.32	20.38	20.33	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	25.31	25.36	25.32	25.7
5	QPSK	1	12	25.14	25.33	25.25	
5	QPSK	1	24	25.01	25.15	25.01	
5	QPSK	12	0	24.35	24.67	24.45	24.7
5	QPSK	12	7	24.27	24.59	24.39	
5	QPSK	12	13	24.21	24.43	24.39	
5	QPSK	25	0	24.30	24.37	24.41	
5	16QAM	1	0	24.36	24.57	24.31	24.7
5	16QAM	1	12	24.39	24.64	24.32	
5	16QAM	1	24	24.33	24.67	24.36	
5	16QAM	12	0	23.18	23.49	23.32	23.7
5	16QAM	12	7	23.44	23.44	23.41	
5	16QAM	12	13	23.16	23.50	23.27	
5	16QAM	25	0	23.16	23.47	23.35	
5	64QAM	1	0	23.33	23.44	23.46	23.7
5	64QAM	1	12	23.37	23.43	23.30	
5	64QAM	1	24	23.27	23.47	23.34	
5	64QAM	12	0	22.34	22.55	22.39	22.7
5	64QAM	12	7	22.26	22.55	22.35	
5	64QAM	12	13	22.35	22.37	22.29	
5	64QAM	25	0	22.24	22.45	22.20	
5	256QAM	1	0	20.30	20.46	20.28	20.7
5	256QAM	1	12	20.24	20.51	20.25	
5	256QAM	1	24	20.27	20.55	20.24	
5	256QAM	12	0	20.20	20.42	20.12	20.7
5	256QAM	12	7	20.32	20.56	20.36	
5	256QAM	12	13	20.24	20.45	20.35	
5	256QAM	25	0	20.20	20.43	20.37	



<LTE Band 7_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.46	23.45	23.32	
20	QPSK	1	49	23.22	23.44	23.37	23.8
20	QPSK	1	99	23.22	23.40	23.34	
20	QPSK	50	0	22.52	22.50	22.40	
20	QPSK	50	24	22.25	22.48	22.47	22.8
20	QPSK	50	50	22.28	22.48	22.45	
20	QPSK	100	0	22.26	22.45	22.44	
20	16QAM	1	0	22.40	22.59	22.61	22.8
20	16QAM	1	49	22.50	22.71	22.71	
20	16QAM	1	99	22.53	22.73	22.60	
20	16QAM	50	0	21.15	21.39	21.42	21.8
20	16QAM	50	24	21.28	21.51	21.46	
20	16QAM	50	50	21.27	21.46	21.45	
20	16QAM	100	0	21.27	21.47	21.43	21.8
20	64QAM	1	0	21.32	21.54	21.53	
20	64QAM	1	49	21.38	21.67	21.66	
20	64QAM	1	99	21.46	21.60	21.50	20.8
20	64QAM	50	0	20.14	20.37	20.40	
20	64QAM	50	24	20.30	20.49	20.45	
20	64QAM	50	50	20.29	20.46	20.46	18.8
20	64QAM	100	0	20.25	20.45	20.45	
20	256QAM	1	0	17.83	17.99	18.07	
20	256QAM	1	49	17.79	18.08	17.90	18.8
20	256QAM	1	99	17.83	18.00	17.96	
20	256QAM	50	0	17.84	17.97	17.91	
20	256QAM	50	24	17.82	18.13	18.05	18.8
20	256QAM	50	50	17.71	18.15	18.10	
20	256QAM	100	0	17.65	18.01	17.93	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.33	23.35	23.19	
15	QPSK	1	37	23.15	23.28	23.21	23.8
15	QPSK	1	74	23.15	23.34	23.26	
15	QPSK	36	0	22.43	22.37	22.20	22.8
15	QPSK	36	20	22.05	22.35	22.30	
15	QPSK	36	39	22.18	22.47	22.35	
15	QPSK	75	0	22.13	22.42	22.30	22.8
15	16QAM	1	0	22.34	22.56	22.51	
15	16QAM	1	37	22.46	22.51	22.52	
15	16QAM	1	74	22.43	22.63	22.48	21.8
15	16QAM	36	0	20.97	21.22	21.27	
15	16QAM	36	20	21.26	21.32	21.38	
15	16QAM	36	39	21.07	21.26	21.40	21.8
15	16QAM	75	0	21.15	21.43	21.41	
15	64QAM	1	0	21.31	21.47	21.51	
15	64QAM	1	37	21.24	21.58	21.49	20.8
15	64QAM	1	74	21.41	21.50	21.42	
15	64QAM	36	0	19.95	20.31	20.25	
15	64QAM	36	20	20.14	20.34	20.27	18.8
15	64QAM	36	39	20.15	20.27	20.34	
15	64QAM	75	0	20.19	20.34	20.36	
15	256QAM	1	0	17.76	17.79	17.92	18.8
15	256QAM	1	37	17.75	17.89	17.70	
15	256QAM	1	74	17.82	17.84	17.84	
15	256QAM	36	0	17.72	17.78	17.71	18.8
15	256QAM	36	20	17.67	17.99	17.87	
15	256QAM	36	39	17.71	18.14	17.99	



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Report No. : FA4O2228B

15	256QAM	75	0	17.50	17.82	17.74	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.41	23.34	23.18	23.8
10	QPSK	1	25	23.16	23.27	23.24	
10	QPSK	1	49	23.06	23.40	23.14	
10	QPSK	25	0	22.45	22.34	22.38	22.8
10	QPSK	25	12	22.19	22.36	22.38	
10	QPSK	25	25	22.11	22.45	22.38	
10	QPSK	50	0	22.12	22.44	22.44	
10	16QAM	1	0	22.39	22.40	22.43	22.8
10	16QAM	1	25	22.31	22.53	22.65	
10	16QAM	1	49	22.51	22.55	22.50	
10	16QAM	25	0	20.99	21.39	21.36	21.8
10	16QAM	25	12	21.08	21.41	21.31	
10	16QAM	25	25	21.25	21.35	21.44	
10	16QAM	50	0	21.23	21.35	21.27	
10	64QAM	1	0	21.12	21.42	21.38	21.8
10	64QAM	1	25	21.18	21.48	21.64	
10	64QAM	1	49	21.44	21.59	21.39	
10	64QAM	25	0	20.06	20.35	20.39	20.8
10	64QAM	25	12	20.25	20.39	20.28	
10	64QAM	25	25	20.11	20.42	20.39	
10	64QAM	50	0	20.07	20.28	20.37	
10	256QAM	1	0	17.63	17.99	17.97	18.8
10	256QAM	1	25	17.65	18.01	17.83	
10	256QAM	1	49	17.65	17.89	17.85	
10	256QAM	25	0	17.84	17.80	17.79	18.8
10	256QAM	25	12	17.63	17.97	17.99	
10	256QAM	25	25	17.64	17.99	18.08	
10	256QAM	50	0	17.52	18.00	17.74	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.45	23.31	23.20	23.8
5	QPSK	1	12	23.22	23.25	23.21	
5	QPSK	1	24	23.04	23.33	23.29	
5	QPSK	12	0	22.36	22.50	22.23	22.8
5	QPSK	12	7	22.25	22.38	22.35	
5	QPSK	12	13	22.11	22.38	22.35	
5	QPSK	25	0	22.10	22.28	22.44	
5	16QAM	1	0	22.34	22.55	22.51	22.8
5	16QAM	1	12	22.31	22.67	22.54	
5	16QAM	1	24	22.36	22.59	22.44	
5	16QAM	12	0	20.96	21.26	21.23	21.8
5	16QAM	12	7	21.22	21.37	21.34	
5	16QAM	12	13	21.24	21.32	21.26	
5	16QAM	25	0	21.16	21.29	21.36	
5	64QAM	1	0	21.29	21.42	21.37	21.8
5	64QAM	1	12	21.19	21.53	21.48	
5	64QAM	1	24	21.40	21.56	21.44	
5	64QAM	12	0	19.94	20.25	20.31	20.8
5	64QAM	12	7	20.24	20.49	20.31	
5	64QAM	12	13	20.26	20.29	20.30	
5	64QAM	25	0	20.13	20.29	20.30	
5	256QAM	1	0	17.79	17.89	17.96	18.8
5	256QAM	1	12	17.78	17.96	17.83	
5	256QAM	1	24	17.69	17.86	17.76	
5	256QAM	12	0	17.81	17.78	17.80	18.8
5	256QAM	12	7	17.71	18.11	17.94	
5	256QAM	12	13	17.52	17.96	17.99	
5	256QAM	25	0	17.64	17.92	17.93	



<LTE Band 7_Ant 5_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)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.71	22.04	21.88	
20	QPSK	1	49	21.84	21.98	21.94	22.5
20	QPSK	1	99	21.92	22.00	22.02	
20	QPSK	50	0	20.79	21.10	21.00	
20	QPSK	50	24	20.95	21.09	21.05	21.5
20	QPSK	50	50	20.95	21.08	21.01	
20	QPSK	100	0	20.94	21.07	21.06	
20	16QAM	1	0	21.03	21.17	21.17	21.5
20	16QAM	1	49	21.15	21.33	21.23	
20	16QAM	1	99	21.16	21.29	21.32	
20	16QAM	50	0	19.79	19.93	20.00	20.5
20	16QAM	50	24	19.94	20.10	20.07	
20	16QAM	50	50	19.97	20.10	20.00	
20	16QAM	100	0	19.94	20.00	20.04	20.5
20	64QAM	1	0	20.12	20.07	20.05	
20	64QAM	1	49	20.03	20.08	20.11	
20	64QAM	1	99	20.01	20.15	20.15	19.5
20	64QAM	50	0	18.79	18.95	19.01	
20	64QAM	50	24	18.96	19.11	19.04	
20	64QAM	50	50	18.97	19.10	18.96	17.5
20	64QAM	100	0	18.94	19.02	19.04	
20	256QAM	1	0	16.62	16.66	16.54	
20	256QAM	1	49	16.64	16.79	16.66	17.5
20	256QAM	1	99	16.65	16.53	16.57	
20	256QAM	50	0	16.53	16.67	16.60	
20	256QAM	50	24	16.63	16.68	16.65	17.5
20	256QAM	50	50	16.58	16.58	16.64	
20	256QAM	100	0	16.36	16.51	16.42	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.67	21.88	21.80	
15	QPSK	1	37	21.68	21.95	21.90	22.5
15	QPSK	1	74	21.88	21.87	22.00	
15	QPSK	36	0	20.77	20.94	20.98	21.5
15	QPSK	36	20	20.81	20.99	21.01	
15	QPSK	36	39	20.87	20.89	20.82	
15	QPSK	75	0	20.84	20.96	20.86	21.5
15	16QAM	1	0	20.99	21.12	21.01	
15	16QAM	1	37	21.03	21.33	21.16	
15	16QAM	1	74	21.07	21.10	21.19	20.5
15	16QAM	36	0	19.70	19.86	19.87	
15	16QAM	36	20	19.74	19.99	19.88	
15	16QAM	36	39	19.87	20.00	19.98	20.5
15	16QAM	75	0	19.84	19.98	19.96	
15	64QAM	1	0	20.07	19.96	19.90	
15	64QAM	1	37	19.85	20.06	20.03	19.5
15	64QAM	1	74	19.94	20.11	20.02	
15	64QAM	36	0	18.67	18.94	18.93	
15	64QAM	36	20	18.85	19.05	19.02	17.5
15	64QAM	36	39	18.93	18.99	18.77	
15	64QAM	75	0	18.90	18.92	18.89	
15	256QAM	1	0	16.52	16.47	16.42	17.5
15	256QAM	1	37	16.55	16.63	16.56	
15	256QAM	1	74	16.48	16.48	16.40	
15	256QAM	36	0	16.37	16.48	16.40	17.5
15	256QAM	36	20	16.44	16.58	16.57	
15	256QAM	36	39	16.52	16.58	16.60	



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Report No. : FA4O2228B

15	256QAM	75	0	16.23	16.38	16.33	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.69	22.01	21.75	22.5
10	QPSK	1	25	21.70	21.93	21.89	
10	QPSK	1	49	21.81	21.81	21.92	
10	QPSK	25	0	20.78	20.93	20.97	21.5
10	QPSK	25	12	20.90	21.00	21.04	
10	QPSK	25	25	20.91	20.91	20.99	
10	QPSK	50	0	20.91	21.00	21.00	
10	16QAM	1	0	21.03	21.11	21.12	21.5
10	16QAM	1	25	21.07	21.33	21.15	
10	16QAM	1	49	20.96	21.22	21.13	
10	16QAM	25	0	19.77	19.89	19.92	20.5
10	16QAM	25	12	19.92	20.08	19.97	
10	16QAM	25	25	19.90	19.95	19.89	
10	16QAM	50	0	19.84	19.87	19.84	
10	64QAM	1	0	20.03	19.89	19.89	20.5
10	64QAM	1	25	19.98	20.04	20.05	
10	64QAM	1	49	19.92	20.11	20.04	
10	64QAM	25	0	18.76	18.82	18.82	19.5
10	64QAM	25	12	18.95	18.92	18.92	
10	64QAM	25	25	18.80	18.96	18.93	
10	64QAM	50	0	18.79	18.90	18.96	
10	256QAM	1	0	16.49	16.60	16.50	17.5
10	256QAM	1	25	16.48	16.61	16.53	
10	256QAM	1	49	16.48	16.39	16.42	
10	256QAM	25	0	16.50	16.67	16.42	17.5
10	256QAM	25	12	16.60	16.59	16.56	
10	256QAM	25	25	16.53	16.39	16.62	
10	256QAM	50	0	16.23	16.51	16.38	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.52	21.89	21.69	22.5
5	QPSK	1	12	21.78	21.88	21.90	
5	QPSK	1	24	21.74	21.96	22.01	
5	QPSK	12	0	20.71	21.09	20.88	21.5
5	QPSK	12	7	20.75	20.95	20.94	
5	QPSK	12	13	20.78	21.03	20.98	
5	QPSK	25	0	20.90	20.98	20.97	
5	16QAM	1	0	20.87	21.09	20.99	21.5
5	16QAM	1	12	21.03	21.30	21.03	
5	16QAM	1	24	21.02	21.11	21.14	
5	16QAM	12	0	19.78	19.88	19.81	20.5
5	16QAM	12	7	19.85	19.97	19.88	
5	16QAM	12	13	19.96	19.93	19.82	
5	16QAM	25	0	19.88	19.90	19.92	
5	64QAM	1	0	19.93	19.94	19.92	20.5
5	64QAM	1	12	20.00	20.07	19.95	
5	64QAM	1	24	20.00	20.15	20.13	
5	64QAM	12	0	18.61	18.76	18.82	19.5
5	64QAM	12	7	18.78	18.94	18.90	
5	64QAM	12	13	18.96	19.08	18.90	
5	64QAM	25	0	18.93	18.84	18.88	
5	256QAM	1	0	16.55	16.48	16.41	17.5
5	256QAM	1	12	16.53	16.73	16.63	
5	256QAM	1	24	16.58	16.43	16.47	
5	256QAM	12	0	16.41	16.58	16.42	17.5
5	256QAM	12	7	16.45	16.60	16.58	
5	256QAM	12	13	16.42	16.43	16.61	
5	256QAM	25	0	16.36	16.50	16.41	

<LTE Band 12_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	25.46	25.49	25.46	
10	QPSK	1	25	24.41	25.40	25.43	25.7
10	QPSK	1	49	25.41	25.35	25.34	
10	QPSK	25	0	24.48	24.61	24.43	
10	QPSK	25	12	24.54	24.59	24.46	24.7
10	QPSK	25	25	24.49	24.56	24.53	
10	QPSK	50	0	24.55	24.57	24.47	
10	16QAM	1	0	24.61	24.59	24.54	24.7
10	16QAM	1	25	24.69	24.68	24.70	
10	16QAM	1	49	24.62	24.70	24.61	
10	16QAM	25	0	23.45	23.43	23.38	23.7
10	16QAM	25	12	23.55	23.53	23.44	
10	16QAM	25	25	23.52	23.53	23.50	
10	16QAM	50	0	23.54	23.53	23.41	23.7
10	64QAM	1	0	23.70	23.63	23.56	
10	64QAM	1	25	23.70	23.64	23.68	
10	64QAM	1	49	23.69	23.66	23.59	22.7
10	64QAM	25	0	22.46	22.37	22.41	
10	64QAM	25	12	22.55	22.55	22.43	
10	64QAM	25	25	22.54	22.54	22.47	20.7
10	64QAM	50	0	22.53	22.52	22.41	
10	256QAM	1	0	20.56	20.60	20.55	
10	256QAM	1	25	20.50	20.62	20.55	20.7
10	256QAM	1	49	20.55	20.66	20.60	
10	256QAM	25	0	20.46	20.54	20.45	
10	256QAM	25	12	20.53	20.61	20.53	20.7
10	256QAM	25	25	20.43	20.56	20.44	
10	256QAM	50	0	20.51	20.59	20.51	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	25.33	25.29	25.26	
5	QPSK	1	12	24.33	25.21	25.41	25.7
5	QPSK	1	24	25.24	25.23	25.33	
5	QPSK	12	0	24.37	24.45	24.41	
5	QPSK	12	7	24.35	24.45	24.42	24.7
5	QPSK	12	13	24.34	24.39	24.37	
5	QPSK	25	0	24.41	24.41	24.40	
5	16QAM	1	0	24.56	24.42	24.54	24.7
5	16QAM	1	12	24.62	24.53	24.54	
5	16QAM	1	24	24.45	24.66	24.61	
5	16QAM	12	0	23.30	23.36	23.35	23.7
5	16QAM	12	7	23.47	23.49	23.41	
5	16QAM	12	13	23.49	23.53	23.50	
5	16QAM	25	0	23.48	23.49	23.24	23.7
5	64QAM	1	0	23.60	23.45	23.48	
5	64QAM	1	12	23.61	23.47	23.67	
5	64QAM	1	24	23.56	23.48	23.57	22.7
5	64QAM	12	0	22.26	22.29	22.21	
5	64QAM	12	7	22.44	22.40	22.39	
5	64QAM	12	13	22.37	22.48	22.43	20.7
5	64QAM	25	0	22.52	22.32	22.25	
5	256QAM	1	0	20.40	20.59	20.47	
5	256QAM	1	12	20.42	20.61	20.42	20.7
5	256QAM	1	24	20.45	20.65	20.51	
5	256QAM	12	0	20.39	20.36	20.44	
5	256QAM	12	7	20.37	20.53	20.33	20.7
5	256QAM	12	13	20.42	20.53	20.26	



FCC SAR TEST REPORT

Report No. : FA4O2228B

5	256QAM	25	0	20.43	20.39	20.40	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	25.41	25.44	25.43	25.7
3	QPSK	1	8	24.38	25.30	25.39	
3	QPSK	1	14	25.28	25.24	25.16	
3	QPSK	8	0	24.43	24.56	24.26	24.7
3	QPSK	8	4	24.47	24.56	24.42	
3	QPSK	8	7	24.44	24.48	24.53	
3	QPSK	15	0	24.54	24.52	24.44	
3	16QAM	1	0	24.52	24.42	24.35	24.7
3	16QAM	1	8	24.65	24.58	24.56	
3	16QAM	1	14	24.45	24.52	24.42	
3	16QAM	8	0	23.40	23.35	23.26	23.7
3	16QAM	8	4	23.41	23.43	23.39	
3	16QAM	8	7	23.43	23.44	23.46	
3	16QAM	15	0	23.50	23.36	23.29	
3	64QAM	1	0	23.55	23.61	23.36	23.7
3	64QAM	1	8	23.50	23.59	23.55	
3	64QAM	1	14	23.61	23.54	23.46	
3	64QAM	8	0	22.29	22.18	22.33	22.7
3	64QAM	8	4	22.55	22.42	22.25	
3	64QAM	8	7	22.46	22.39	22.41	
3	64QAM	15	0	22.51	22.51	22.31	
3	256QAM	1	0	20.38	20.51	20.44	20.7
3	256QAM	1	8	20.31	20.44	20.38	
3	256QAM	1	14	20.51	20.66	20.43	
3	256QAM	8	0	20.42	20.39	20.33	20.7
3	256QAM	8	4	20.35	20.47	20.53	
3	256QAM	8	7	20.26	20.50	20.36	
3	256QAM	15	0	20.47	20.41	20.35	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	25.33	25.29	25.42	25.7
1.4	QPSK	1	3	24.31	25.20	25.25	
1.4	QPSK	1	5	25.30	25.30	25.24	
1.4	QPSK	3	0	25.26	25.29	25.37	
1.4	QPSK	3	1	24.25	25.40	25.41	
1.4	QPSK	3	3	25.29	25.26	25.33	
1.4	QPSK	6	0	24.44	24.59	24.42	24.7
1.4	16QAM	1	0	24.42	24.58	24.41	24.7
1.4	16QAM	1	3	24.40	24.39	24.51	
1.4	16QAM	1	5	24.52	24.57	24.28	
1.4	16QAM	3	0	24.41	24.46	24.43	
1.4	16QAM	3	1	24.51	24.63	24.61	
1.4	16QAM	3	3	24.42	24.53	24.49	
1.4	16QAM	6	0	23.28	23.39	23.18	23.7
1.4	64QAM	1	0	23.52	23.42	23.24	23.7
1.4	64QAM	1	3	23.44	23.50	23.45	
1.4	64QAM	1	5	23.47	23.34	23.39	
1.4	64QAM	3	0	23.50	23.51	23.53	
1.4	64QAM	3	1	23.61	23.48	23.61	
1.4	64QAM	3	3	23.68	23.50	23.42	
1.4	64QAM	6	0	22.43	22.34	22.31	22.7
1.4	256QAM	1	0	20.51	20.47	20.49	20.7
1.4	256QAM	1	3	20.42	20.45	20.39	
1.4	256QAM	1	5	20.48	20.66	20.47	
1.4	256QAM	3	0	20.27	20.45	20.39	
1.4	256QAM	3	1	20.44	20.58	20.37	
1.4	256QAM	3	3	20.31	20.49	20.37	
1.4	256QAM	6	0	20.31	20.55	20.37	20.7



<LTE Band 12_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	25.46	25.49	25.46	
10	QPSK	1	25	24.41	25.40	25.43	25.7
10	QPSK	1	49	25.41	25.35	25.34	
10	QPSK	25	0	24.48	24.61	24.43	
10	QPSK	25	12	24.54	24.59	24.46	24.7
10	QPSK	25	25	24.49	24.56	24.53	
10	QPSK	50	0	24.55	24.57	24.47	
10	16QAM	1	0	24.61	24.59	24.54	24.7
10	16QAM	1	25	24.69	24.68	24.70	
10	16QAM	1	49	24.62	24.70	24.61	
10	16QAM	25	0	23.45	23.43	23.38	23.7
10	16QAM	25	12	23.55	23.53	23.44	
10	16QAM	25	25	23.52	23.53	23.50	
10	16QAM	50	0	23.54	23.53	23.41	23.7
10	64QAM	1	0	23.70	23.63	23.56	
10	64QAM	1	25	23.70	23.64	23.68	
10	64QAM	1	49	23.69	23.66	23.59	22.7
10	64QAM	25	0	22.46	22.37	22.41	
10	64QAM	25	12	22.55	22.55	22.43	
10	64QAM	25	25	22.54	22.54	22.47	20.7
10	64QAM	50	0	22.53	22.52	22.41	
10	256QAM	1	0	20.56	20.60	20.55	
10	256QAM	1	25	20.50	20.62	20.55	20.7
10	256QAM	1	49	20.55	20.66	20.60	
10	256QAM	25	0	20.46	20.54	20.45	
10	256QAM	25	12	20.53	20.61	20.53	20.7
10	256QAM	25	25	20.43	20.56	20.44	
10	256QAM	50	0	20.51	20.59	20.51	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	25.33	25.29	25.26	
5	QPSK	1	12	24.33	25.21	25.41	25.7
5	QPSK	1	24	25.24	25.23	25.33	
5	QPSK	12	0	24.37	24.45	24.41	24.7
5	QPSK	12	7	24.35	24.45	24.42	
5	QPSK	12	13	24.34	24.39	24.37	
5	QPSK	25	0	24.41	24.41	24.40	24.7
5	16QAM	1	0	24.56	24.42	24.54	
5	16QAM	1	12	24.62	24.53	24.54	
5	16QAM	1	24	24.45	24.66	24.61	23.7
5	16QAM	12	0	23.30	23.36	23.35	
5	16QAM	12	7	23.47	23.49	23.41	
5	16QAM	12	13	23.49	23.53	23.50	23.7
5	16QAM	25	0	23.48	23.49	23.24	
5	64QAM	1	0	23.60	23.45	23.48	
5	64QAM	1	12	23.61	23.47	23.67	22.7
5	64QAM	1	24	23.56	23.48	23.57	
5	64QAM	12	0	22.26	22.29	22.21	
5	64QAM	12	7	22.44	22.40	22.39	20.7
5	64QAM	12	13	22.37	22.48	22.43	
5	64QAM	25	0	22.52	22.32	22.25	
5	256QAM	1	0	20.40	20.59	20.47	20.7
5	256QAM	1	12	20.42	20.61	20.42	
5	256QAM	1	24	20.45	20.65	20.51	
5	256QAM	12	0	20.39	20.36	20.44	20.7
5	256QAM	12	7	20.37	20.53	20.33	
5	256QAM	12	13	20.42	20.53	20.26	



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5	256QAM	25	0	20.43	20.39	20.40	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	25.41	25.44	25.43	25.7
3	QPSK	1	8	24.38	25.30	25.39	
3	QPSK	1	14	25.28	25.24	25.16	
3	QPSK	8	0	24.43	24.56	24.26	24.7
3	QPSK	8	4	24.47	24.56	24.42	
3	QPSK	8	7	24.44	24.48	24.53	
3	QPSK	15	0	24.54	24.52	24.44	
3	16QAM	1	0	24.52	24.42	24.35	24.7
3	16QAM	1	8	24.65	24.58	24.56	
3	16QAM	1	14	24.45	24.52	24.42	
3	16QAM	8	0	23.40	23.35	23.26	23.7
3	16QAM	8	4	23.41	23.43	23.39	
3	16QAM	8	7	23.43	23.44	23.46	
3	16QAM	15	0	23.50	23.36	23.29	
3	64QAM	1	0	23.55	23.61	23.36	23.7
3	64QAM	1	8	23.50	23.59	23.55	
3	64QAM	1	14	23.61	23.54	23.46	
3	64QAM	8	0	22.29	22.18	22.33	22.7
3	64QAM	8	4	22.55	22.42	22.25	
3	64QAM	8	7	22.46	22.39	22.41	
3	64QAM	15	0	22.51	22.51	22.31	
3	256QAM	1	0	20.38	20.51	20.44	20.7
3	256QAM	1	8	20.31	20.44	20.38	
3	256QAM	1	14	20.51	20.66	20.43	
3	256QAM	8	0	20.42	20.39	20.33	20.7
3	256QAM	8	4	20.35	20.47	20.53	
3	256QAM	8	7	20.26	20.50	20.36	
3	256QAM	15	0	20.47	20.41	20.35	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	25.33	25.29	25.42	25.7
1.4	QPSK	1	3	24.31	25.20	25.25	
1.4	QPSK	1	5	25.30	25.30	25.24	
1.4	QPSK	3	0	25.26	25.29	25.37	
1.4	QPSK	3	1	24.25	25.40	25.41	
1.4	QPSK	3	3	25.29	25.26	25.33	
1.4	QPSK	6	0	24.44	24.59	24.42	24.7
1.4	16QAM	1	0	24.42	24.58	24.41	24.7
1.4	16QAM	1	3	24.40	24.39	24.51	
1.4	16QAM	1	5	24.52	24.57	24.28	
1.4	16QAM	3	0	24.41	24.46	24.43	
1.4	16QAM	3	1	24.51	24.63	24.61	
1.4	16QAM	3	3	24.42	24.53	24.49	
1.4	16QAM	6	0	23.28	23.39	23.18	23.7
1.4	64QAM	1	0	23.52	23.42	23.24	23.7
1.4	64QAM	1	3	23.44	23.50	23.45	
1.4	64QAM	1	5	23.47	23.34	23.39	
1.4	64QAM	3	0	23.50	23.51	23.53	
1.4	64QAM	3	1	23.61	23.48	23.61	
1.4	64QAM	3	3	23.68	23.50	23.42	
1.4	64QAM	6	0	22.43	22.34	22.31	22.7
1.4	256QAM	1	0	20.51	20.47	20.49	20.7
1.4	256QAM	1	3	20.42	20.45	20.39	
1.4	256QAM	1	5	20.48	20.66	20.47	
1.4	256QAM	3	0	20.27	20.45	20.39	
1.4	256QAM	3	1	20.44	20.58	20.37	
1.4	256QAM	3	3	20.31	20.49	20.37	
1.4	256QAM	6	0	20.31	20.55	20.37	20.7



<LTE Band 12_Ant 1_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)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	25.46	25.49	25.46	
10	QPSK	1	25	24.41	25.40	25.43	25.7
10	QPSK	1	49	25.41	25.35	25.34	
10	QPSK	25	0	24.48	24.51	24.43	
10	QPSK	25	12	24.64	24.59	24.46	24.7
10	QPSK	25	25	24.59	24.56	24.53	
10	QPSK	50	0	24.59	24.57	24.47	
10	16QAM	1	0	24.61	24.59	24.54	24.7
10	16QAM	1	25	24.69	24.68	24.70	
10	16QAM	1	49	24.62	24.70	24.61	
10	16QAM	25	0	23.45	23.43	23.38	23.7
10	16QAM	25	12	23.55	23.53	23.44	
10	16QAM	25	25	23.52	23.53	23.50	
10	16QAM	50	0	23.54	23.53	23.41	23.7
10	64QAM	1	0	23.70	23.63	23.56	
10	64QAM	1	25	23.70	23.64	23.68	
10	64QAM	1	49	23.69	23.66	23.59	22.7
10	64QAM	25	0	22.46	22.37	22.41	
10	64QAM	25	12	22.55	22.55	22.43	
10	64QAM	25	25	22.54	22.54	22.47	20.7
10	64QAM	50	0	22.53	22.52	22.41	
10	256QAM	1	0	20.33	20.52	20.40	
10	256QAM	1	25	20.44	20.46	20.32	20.7
10	256QAM	1	49	20.28	20.32	20.18	
10	256QAM	25	0	20.25	20.45	20.45	
10	256QAM	25	12	20.36	20.44	20.37	20.7
10	256QAM	25	25	20.22	20.40	20.31	
10	256QAM	50	0	20.31	20.48	20.42	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	25.46	25.32	25.42	25.7
5	QPSK	1	12	24.25	25.35	25.27	
5	QPSK	1	24	25.40	25.35	25.31	
5	QPSK	12	0	24.38	24.44	24.26	24.7
5	QPSK	12	7	24.57	24.51	24.43	
5	QPSK	12	13	24.41	24.39	24.49	
5	QPSK	25	0	24.40	24.42	24.43	24.7
5	16QAM	1	0	24.48	24.41	24.34	
5	16QAM	1	12	24.68	24.67	24.63	
5	16QAM	1	24	24.60	24.54	24.61	23.7
5	16QAM	12	0	23.31	23.26	23.31	
5	16QAM	12	7	23.53	23.52	23.38	
5	16QAM	12	13	23.35	23.41	23.47	23.7
5	16QAM	25	0	23.46	23.45	23.29	
5	64QAM	1	0	23.69	23.61	23.49	
5	64QAM	1	12	23.57	23.52	23.68	22.7
5	64QAM	1	24	23.50	23.62	23.41	
5	64QAM	12	0	22.27	22.35	22.38	
5	64QAM	12	7	22.51	22.44	22.26	20.7
5	64QAM	12	13	22.46	22.51	22.44	
5	64QAM	25	0	22.44	22.34	22.36	
5	256QAM	1	0	20.29	20.48	20.25	20.7
5	256QAM	1	12	20.33	20.28	20.30	
5	256QAM	1	24	20.21	20.15	20.14	
5	256QAM	12	0	20.18	20.39	20.44	20.7
5	256QAM	12	7	20.33	20.36	20.23	
5	256QAM	12	13	20.14	20.21	20.27	



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5	256QAM	25	0	20.22	20.48	20.28	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	25.33	25.34	25.32	25.7
3	QPSK	1	8	24.33	25.21	25.38	
3	QPSK	1	14	25.27	25.21	25.17	
3	QPSK	8	0	24.39	24.38	24.33	24.7
3	QPSK	8	4	24.44	24.51	24.45	
3	QPSK	8	7	24.52	24.49	24.49	
3	QPSK	15	0	24.56	24.50	24.37	24.7
3	16QAM	1	0	24.59	24.46	24.50	
3	16QAM	1	8	24.68	24.50	24.63	
3	16QAM	1	14	24.47	24.60	24.47	23.7
3	16QAM	8	0	23.43	23.31	23.31	
3	16QAM	8	4	23.54	23.48	23.31	
3	16QAM	8	7	23.38	23.46	23.49	23.7
3	16QAM	15	0	23.38	23.43	23.37	
3	64QAM	1	0	23.50	23.54	23.49	
3	64QAM	1	8	23.63	23.49	23.62	22.7
3	64QAM	1	14	23.56	23.52	23.51	
3	64QAM	8	0	22.43	22.35	22.38	
3	64QAM	8	4	22.52	22.36	22.42	20.7
3	64QAM	8	7	22.41	22.53	22.41	
3	64QAM	15	0	22.35	22.40	22.29	
3	256QAM	1	0	20.17	20.41	20.32	20.7
3	256QAM	1	8	20.36	20.45	20.21	
3	256QAM	1	14	20.16	20.20	20.13	
3	256QAM	8	0	20.19	20.44	20.33	20.7
3	256QAM	8	4	20.19	20.25	20.17	
3	256QAM	8	7	20.09	20.29	20.31	
3	256QAM	15	0	20.25	20.38	20.42	Tune-up limit (dBm)
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	25.44	25.41	25.39	25.7
1.4	QPSK	1	3	24.25	25.28	25.24	
1.4	QPSK	1	5	25.23	25.22	25.21	
1.4	QPSK	3	0	24.30	24.31	24.31	24.7
1.4	QPSK	3	1	24.49	24.56	24.32	
1.4	QPSK	3	3	24.46	24.51	24.41	
1.4	QPSK	6	0	24.45	24.52	24.33	24.7
1.4	16QAM	1	0	24.59	24.52	24.37	
1.4	16QAM	1	3	24.65	24.48	24.62	
1.4	16QAM	1	5	24.59	24.52	24.50	23.7
1.4	16QAM	3	0	23.33	23.34	23.35	
1.4	16QAM	3	1	23.37	23.52	23.41	
1.4	16QAM	3	3	23.42	23.51	23.50	23.7
1.4	16QAM	6	0	23.42	23.49	23.35	
1.4	64QAM	1	0	23.61	23.50	23.45	
1.4	64QAM	1	3	23.60	23.63	23.52	22.7
1.4	64QAM	1	5	23.68	23.62	23.53	
1.4	64QAM	3	0	22.29	22.22	22.41	
1.4	64QAM	3	1	22.46	22.37	22.36	20.7
1.4	64QAM	3	3	22.51	22.34	22.41	
1.4	64QAM	6	0	22.41	22.45	22.24	
1.4	256QAM	1	0	20.21	20.52	20.20	20.7
1.4	256QAM	1	3	20.26	20.35	20.17	
1.4	256QAM	1	5	20.25	20.24	20.08	
1.4	256QAM	3	0	20.24	20.28	20.29	20.7
1.4	256QAM	3	1	20.16	20.39	20.30	
1.4	256QAM	3	3	20.22	20.39	20.20	
1.4	256QAM	6	0	20.21	20.34	20.35	20.7



<LTE Band 13_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		25.51		25.7
10	QPSK	1	25		25.00		
10	QPSK	1	49		25.50		
10	QPSK	25	0		24.36		24.7
10	QPSK	25	12		24.26		
10	QPSK	25	25		24.33		
10	QPSK	50	0		24.47		24.7
10	16QAM	1	0		24.48		
10	16QAM	1	25		24.25		
10	16QAM	1	49		24.70		23.7
10	16QAM	25	0		23.35		
10	16QAM	25	12		23.20		
10	16QAM	25	25		23.33		23.7
10	16QAM	50	0		23.41		
10	64QAM	1	0		23.70		
10	64QAM	1	25		23.27		23.7
10	64QAM	1	49		23.70		
10	64QAM	25	0		22.34		
10	64QAM	25	12		22.20		22.7
10	64QAM	25	25		22.34		
10	64QAM	50	0		22.40		
10	256QAM	1	0		20.65		20.7
10	256QAM	1	25		20.27		
10	256QAM	1	49		20.62		
10	256QAM	25	0		20.51		20.7
10	256QAM	25	12		20.35		
10	256QAM	25	25		20.40		
10	256QAM	50	0		20.64		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	25.46	25.49	25.47	25.7
5	QPSK	1	12	24.88	24.93	24.98	
5	QPSK	1	24	25.47	25.49	25.45	
5	QPSK	12	0	24.35	24.28	24.24	24.7
5	QPSK	12	7	24.17	24.25	24.08	
5	QPSK	12	13	24.24	24.27	24.22	
5	QPSK	25	0	24.45	24.42	24.33	24.7
5	16QAM	1	0	24.46	24.47	24.29	
5	16QAM	1	12	24.25	24.06	24.06	
5	16QAM	1	24	24.69	24.56	24.59	23.7
5	16QAM	12	0	23.27	23.32	23.35	
5	16QAM	12	7	23.13	23.18	23.17	
5	16QAM	12	13	23.27	23.23	23.19	23.7
5	16QAM	25	0	23.22	23.35	23.35	
5	64QAM	1	0	23.69	23.57	23.62	
5	64QAM	1	12	23.07	23.23	23.20	22.7
5	64QAM	1	24	23.52	23.63	23.66	
5	64QAM	12	0	22.16	22.30	22.31	
5	64QAM	12	7	22.08	22.12	22.20	20.7
5	64QAM	12	13	22.30	22.25	22.32	
5	64QAM	25	0	22.38	22.35	22.40	
5	256QAM	1	0	20.64	20.45	20.61	20.7
5	256QAM	1	12	20.21	20.07	20.19	
5	256QAM	1	24	20.46	20.62	20.45	
5	256QAM	12	0	20.40	20.31	20.48	20.7
5	256QAM	12	7	20.15	20.26	20.32	
5	256QAM	12	13	20.40	20.21	20.28	
5	256QAM	25	0	20.48	20.55	20.55	

**<LTE Band 13_Ant 1_DSI 1 (WLAN OFF)>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		25.51		25.7
10	QPSK	1	25		25.00		
10	QPSK	1	49		25.50		
10	QPSK	25	0		24.36		
10	QPSK	25	12		24.26		24.7
10	QPSK	25	25		24.33		
10	QPSK	50	0		24.47		
10	16QAM	1	0		24.48		
10	16QAM	1	25		24.25		24.7
10	16QAM	1	49		24.70		
10	16QAM	25	0		23.35		
10	16QAM	25	12		23.20		
10	16QAM	25	25		23.33		23.7
10	16QAM	50	0		23.41		
10	64QAM	1	0		23.70		
10	64QAM	1	25		23.27		
10	64QAM	1	49		23.70		23.7
10	64QAM	25	0		22.34		
10	64QAM	25	12		22.20		
10	64QAM	25	25		22.34		
10	64QAM	50	0		22.40		22.7
10	256QAM	1	0		20.65		
10	256QAM	1	25		20.27		
10	256QAM	1	49		20.62		
10	256QAM	25	0		20.51		20.7
10	256QAM	25	12		20.35		
10	256QAM	25	25		20.40		
10	256QAM	50	0		20.64		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	25.46	25.49	25.47	25.7
5	QPSK	1	12	24.88	24.93	24.98	
5	QPSK	1	24	25.47	25.49	25.45	
5	QPSK	12	0	24.35	24.28	24.24	
5	QPSK	12	7	24.17	24.25	24.08	24.7
5	QPSK	12	13	24.24	24.27	24.22	
5	QPSK	25	0	24.45	24.42	24.33	
5	16QAM	1	0	24.46	24.47	24.29	
5	16QAM	1	12	24.25	24.06	24.06	24.7
5	16QAM	1	24	24.69	24.56	24.59	
5	16QAM	12	0	23.27	23.32	23.35	
5	16QAM	12	7	23.13	23.18	23.17	
5	16QAM	12	13	23.27	23.23	23.19	23.7
5	16QAM	25	0	23.22	23.35	23.35	
5	64QAM	1	0	23.69	23.57	23.62	
5	64QAM	1	12	23.07	23.23	23.20	
5	64QAM	1	24	23.52	23.63	23.66	23.7
5	64QAM	12	0	22.16	22.30	22.31	
5	64QAM	12	7	22.08	22.12	22.20	
5	64QAM	12	13	22.30	22.25	22.32	
5	64QAM	25	0	22.38	22.35	22.40	22.7
5	256QAM	1	0	20.64	20.45	20.61	
5	256QAM	1	12	20.21	20.07	20.19	
5	256QAM	1	24	20.46	20.62	20.45	
5	256QAM	12	0	20.40	20.31	20.48	20.7
5	256QAM	12	7	20.15	20.26	20.32	
5	256QAM	12	13	20.40	20.21	20.28	
5	256QAM	25	0	20.48	20.55	20.55	



<LTE Band 13_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.87		24.9
10	QPSK	1	25		24.32		
10	QPSK	1	49		24.84		
10	QPSK	25	0		23.68		23.9
10	QPSK	25	12		23.55		
10	QPSK	25	25		23.65		
10	QPSK	50	0		23.73		23.9
10	16QAM	1	0		23.86		
10	16QAM	1	25		23.58		
10	16QAM	1	49		23.87		22.9
10	16QAM	25	0		22.67		
10	16QAM	25	12		22.55		
10	16QAM	25	25		22.66		22.9
10	16QAM	50	0		22.74		
10	64QAM	1	0		22.89		
10	64QAM	1	25		22.60		22.9
10	64QAM	1	49		22.83		
10	64QAM	25	0		21.68		
10	64QAM	25	12		21.52		21.9
10	64QAM	25	25		21.61		
10	64QAM	50	0		21.74		
10	256QAM	1	0		19.34		19.9
10	256QAM	1	25		19.56		
10	256QAM	1	49		19.31		
10	256QAM	25	0		19.19		19.9
10	256QAM	25	12		19.42		
10	256QAM	25	25		19.43		
10	256QAM	50	0		19.33		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.74	24.70	24.68	24.9
5	QPSK	1	12	24.15	24.27	24.20	
5	QPSK	1	24	24.80	24.66	24.71	
5	QPSK	12	0	23.65	23.57	23.52	23.9
5	QPSK	12	7	23.40	23.48	23.44	
5	QPSK	12	13	23.64	23.54	23.48	
5	QPSK	25	0	23.71	23.64	23.61	23.9
5	16QAM	1	0	23.69	23.69	23.75	
5	16QAM	1	12	23.39	23.52	23.58	
5	16QAM	1	24	23.78	23.75	23.86	23.9
5	16QAM	12	0	22.49	22.59	22.54	
5	16QAM	12	7	22.36	22.36	22.55	
5	16QAM	12	13	22.57	22.64	22.60	22.9
5	16QAM	25	0	22.67	22.68	22.74	
5	64QAM	1	0	22.79	22.70	22.69	
5	64QAM	1	12	22.50	22.48	22.49	22.9
5	64QAM	1	24	22.78	22.65	22.78	
5	64QAM	12	0	21.60	21.63	21.67	
5	64QAM	12	7	21.43	21.35	21.52	21.9
5	64QAM	12	13	21.47	21.58	21.60	
5	64QAM	25	0	21.58	21.74	21.60	
5	256QAM	1	0	19.34	19.29	19.17	19.9
5	256QAM	1	12	19.42	19.42	19.40	
5	256QAM	1	24	19.18	19.14	19.12	
5	256QAM	12	0	19.15	19.03	19.03	19.9
5	256QAM	12	7	19.40	19.26	19.34	
5	256QAM	12	13	19.26	19.36	19.24	
5	256QAM	25	0	19.33	19.22	19.25	



<LTE Band 13_Ant 1_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)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.87		24.9
10	QPSK	1	25		24.32		
10	QPSK	1	49		24.84		
10	QPSK	25	0		23.68		23.9
10	QPSK	25	12		23.55		
10	QPSK	25	25		23.65		
10	QPSK	50	0		23.73		23.9
10	16QAM	1	0		23.86		
10	16QAM	1	25		23.58		
10	16QAM	1	49		23.87		22.9
10	16QAM	25	0		22.67		
10	16QAM	25	12		22.55		
10	16QAM	25	25		22.66		22.9
10	16QAM	50	0		22.74		
10	64QAM	1	0		22.89		
10	64QAM	1	25		22.60		22.9
10	64QAM	1	49		22.83		
10	64QAM	25	0		21.68		
10	64QAM	25	12		21.52		21.9
10	64QAM	25	25		21.61		
10	64QAM	50	0		21.74		
10	256QAM	1	0		19.17		19.9
10	256QAM	1	25		19.44		
10	256QAM	1	49		19.28		
10	256QAM	25	0		19.11		19.9
10	256QAM	25	12		19.23		
10	256QAM	25	25		19.26		
10	256QAM	50	0		19.19		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.64	24.69	24.48	24.9
5	QPSK	1	12	24.13	24.18	24.14	
5	QPSK	1	24	24.65	24.66	24.68	
5	QPSK	12	0	23.50	23.55	23.45	23.9
5	QPSK	12	7	23.34	23.28	23.31	
5	QPSK	12	13	23.64	23.52	23.44	
5	QPSK	25	0	23.62	23.60	23.46	23.9
5	16QAM	1	0	23.67	23.59	23.70	
5	16QAM	1	12	23.34	23.50	23.45	
5	16QAM	1	24	23.75	23.56	23.86	22.9
5	16QAM	12	0	22.34	22.49	22.37	
5	16QAM	12	7	22.18	22.16	22.41	
5	16QAM	12	13	22.43	22.45	22.54	22.9
5	16QAM	25	0	22.57	22.48	22.73	
5	64QAM	1	0	22.68	22.52	22.68	
5	64QAM	1	12	22.38	22.41	22.43	22.9
5	64QAM	1	24	22.65	22.63	22.65	
5	64QAM	12	0	21.57	21.60	21.62	
5	64QAM	12	7	21.36	21.35	21.35	21.9
5	64QAM	12	13	21.39	21.56	21.58	
5	64QAM	25	0	21.46	21.55	21.57	
5	256QAM	1	0	19.31	19.27	19.16	19.9
5	256QAM	1	12	19.34	19.35	19.23	
5	256QAM	1	24	19.15	19.00	19.01	
5	256QAM	12	0	18.96	18.98	18.98	19.9
5	256QAM	12	7	19.22	19.26	19.26	
5	256QAM	12	13	19.25	19.32	19.18	
5	256QAM	25	0	19.15	19.11	19.09	



<LTE Band 14_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		25.61		25.7
10	QPSK	1	25		25.37		
10	QPSK	1	49		25.03		
10	QPSK	25	0		24.40		24.7
10	QPSK	25	12		24.28		
10	QPSK	25	25		24.36		
10	QPSK	50	0		24.40		24.7
10	16QAM	1	0		24.64		
10	16QAM	1	25		24.23		
10	16QAM	1	49		24.38		23.7
10	16QAM	25	0		23.27		
10	16QAM	25	12		23.25		
10	16QAM	25	25		23.47		23.7
10	16QAM	50	0		23.33		
10	64QAM	1	0		23.70		
10	64QAM	1	25		23.32		23.7
10	64QAM	1	49		23.49		
10	64QAM	25	0		22.27		
10	64QAM	25	12		22.25		22.7
10	64QAM	25	25		22.46		
10	64QAM	50	0		22.36		
10	256QAM	1	0		20.66		20.7
10	256QAM	1	25		20.25		
10	256QAM	1	49		20.58		
10	256QAM	25	0		20.39		20.7
10	256QAM	25	12		20.36		
10	256QAM	25	25		20.54		
10	256QAM	50	0		20.48		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	25.46	25.42	25.59	25.7
5	QPSK	1	12	25.18	25.22	25.17	
5	QPSK	1	24	24.98	24.98	24.97	
5	QPSK	12	0	24.35	24.32	24.26	24.7
5	QPSK	12	7	24.15	24.25	24.18	
5	QPSK	12	13	24.31	24.32	24.21	
5	QPSK	25	0	24.40	24.22	24.35	24.7
5	16QAM	1	0	24.51	24.58	24.48	
5	16QAM	1	12	24.04	24.22	24.04	
5	16QAM	1	24	24.18	24.36	24.23	23.7
5	16QAM	12	0	23.21	23.20	23.11	
5	16QAM	12	7	23.20	23.14	23.24	
5	16QAM	12	13	23.47	23.36	23.47	23.7
5	16QAM	25	0	23.33	23.25	23.27	
5	64QAM	1	0	23.54	23.52	23.67	
5	64QAM	1	12	23.17	23.32	23.27	23.7
5	64QAM	1	24	23.47	23.41	23.37	
5	64QAM	12	0	22.23	22.25	22.19	
5	64QAM	12	7	22.25	22.06	22.16	22.7
5	64QAM	12	13	22.28	22.31	22.40	
5	64QAM	25	0	22.33	22.26	22.20	
5	256QAM	1	0	20.49	20.53	20.65	20.7
5	256QAM	1	12	20.11	20.08	20.15	
5	256QAM	1	24	20.42	20.41	20.53	
5	256QAM	12	0	20.23	20.34	20.19	20.7
5	256QAM	12	7	20.29	20.26	20.26	
5	256QAM	12	13	20.50	20.37	20.54	
5	256QAM	25	0	20.33	20.32	20.44	



<LTE Band 14_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		25.61		25.7
10	QPSK	1	25		25.37		
10	QPSK	1	49		25.03		
10	QPSK	25	0		24.40		24.7
10	QPSK	25	12		24.28		
10	QPSK	25	25		24.36		
10	QPSK	50	0		24.40		24.7
10	16QAM	1	0		24.64		
10	16QAM	1	25		24.23		
10	16QAM	1	49		24.38		23.7
10	16QAM	25	0		23.27		
10	16QAM	25	12		23.25		
10	16QAM	25	25		23.47		23.7
10	16QAM	50	0		23.33		
10	64QAM	1	0		23.70		
10	64QAM	1	25		23.32		23.7
10	64QAM	1	49		23.49		
10	64QAM	25	0		22.27		
10	64QAM	25	12		22.25		22.7
10	64QAM	25	25		22.46		
10	64QAM	50	0		22.36		
10	256QAM	1	0		20.66		20.7
10	256QAM	1	25		20.25		
10	256QAM	1	49		20.58		
10	256QAM	25	0		20.39		20.7
10	256QAM	25	12		20.36		
10	256QAM	25	25		20.54		
10	256QAM	50	0		20.48		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	25.46	25.42	25.59	25.7
5	QPSK	1	12	25.18	25.22	25.17	
5	QPSK	1	24	24.98	24.98	24.97	
5	QPSK	12	0	24.35	24.32	24.26	24.7
5	QPSK	12	7	24.15	24.25	24.18	
5	QPSK	12	13	24.31	24.32	24.21	
5	QPSK	25	0	24.40	24.22	24.35	24.7
5	16QAM	1	0	24.51	24.58	24.48	
5	16QAM	1	12	24.04	24.22	24.04	
5	16QAM	1	24	24.18	24.36	24.23	23.7
5	16QAM	12	0	23.21	23.20	23.11	
5	16QAM	12	7	23.20	23.14	23.24	
5	16QAM	12	13	23.47	23.36	23.47	23.7
5	16QAM	25	0	23.33	23.25	23.27	
5	64QAM	1	0	23.54	23.52	23.67	
5	64QAM	1	12	23.17	23.32	23.27	23.7
5	64QAM	1	24	23.47	23.41	23.37	
5	64QAM	12	0	22.23	22.25	22.19	
5	64QAM	12	7	22.25	22.06	22.16	22.7
5	64QAM	12	13	22.28	22.31	22.40	
5	64QAM	25	0	22.33	22.26	22.20	
5	256QAM	1	0	20.49	20.53	20.65	20.7
5	256QAM	1	12	20.11	20.08	20.15	
5	256QAM	1	24	20.42	20.41	20.53	
5	256QAM	12	0	20.23	20.34	20.19	20.7
5	256QAM	12	7	20.29	20.26	20.26	
5	256QAM	12	13	20.50	20.37	20.54	
5	256QAM	25	0	20.33	20.32	20.44	



<LTE Band 14_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.65		24.9
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.63		
10	QPSK	25	0		23.60		23.9
10	QPSK	25	12		23.29		
10	QPSK	25	25		23.59		
10	QPSK	50	0		23.42		23.9
10	16QAM	1	0		23.72		
10	16QAM	1	25		23.27		
10	16QAM	1	49		23.78		22.9
10	16QAM	25	0		22.34		
10	16QAM	25	12		22.31		
10	16QAM	25	25		22.56		22.9
10	16QAM	50	0		22.41		
10	64QAM	1	0		22.62		
10	64QAM	1	25		22.26		22.9
10	64QAM	1	49		22.88		
10	64QAM	25	0		21.30		
10	64QAM	25	12		21.32		21.9
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.43		
10	256QAM	1	0		19.19		19.9
10	256QAM	1	25		19.49		
10	256QAM	1	49		19.22		
10	256QAM	25	0		19.07		19.9
10	256QAM	25	12		19.33		
10	256QAM	25	25		19.36		
10	256QAM	50	0		19.13		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.47	24.49	24.64	24.9
5	QPSK	1	12	23.98	23.97	23.63	
5	QPSK	1	24	24.30	24.56	24.49	
5	QPSK	12	0	23.42	23.60	23.42	23.9
5	QPSK	12	7	23.14	23.11	23.18	
5	QPSK	12	13	23.22	23.57	23.50	
5	QPSK	25	0	23.34	23.25	23.18	23.9
5	16QAM	1	0	23.65	23.65	23.55	
5	16QAM	1	12	23.11	23.16	23.20	
5	16QAM	1	24	23.53	23.58	23.47	22.9
5	16QAM	12	0	22.18	22.15	22.11	
5	16QAM	12	7	22.09	22.19	21.98	
5	16QAM	12	13	22.21	22.54	22.34	22.9
5	16QAM	25	0	22.12	22.41	22.16	
5	64QAM	1	0	22.36	22.47	22.55	
5	64QAM	1	12	21.95	22.14	22.07	22.9
5	64QAM	1	24	22.66	22.77	22.58	
5	64QAM	12	0	21.09	21.25	21.09	
5	64QAM	12	7	21.17	21.27	21.20	21.9
5	64QAM	12	13	21.37	21.48	21.38	
5	64QAM	25	0	21.11	21.30	21.39	
5	256QAM	1	0	19.04	19.18	18.93	19.9
5	256QAM	1	12	19.32	19.44	19.13	
5	256QAM	1	24	18.98	19.20	18.95	
5	256QAM	12	0	18.71	18.94	18.76	19.9
5	256QAM	12	7	19.18	19.22	19.15	
5	256QAM	12	13	19.13	19.20	19.10	
5	256QAM	25	0	18.99	19.10	18.90	



<LTE Band 14_Ant 1_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)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.65		24.9
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.63		
10	QPSK	25	0		23.60		23.9
10	QPSK	25	12		23.29		
10	QPSK	25	25		23.59		
10	QPSK	50	0		23.42		23.9
10	16QAM	1	0		23.72		
10	16QAM	1	25		23.27		
10	16QAM	1	49		23.78		22.9
10	16QAM	25	0		22.34		
10	16QAM	25	12		22.31		
10	16QAM	25	25		22.56		22.9
10	16QAM	50	0		22.41		
10	64QAM	1	0		22.62		
10	64QAM	1	25		22.26		22.9
10	64QAM	1	49		22.88		
10	64QAM	25	0		21.30		
10	64QAM	25	12		21.32		21.9
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.43		
10	256QAM	1	0		19.15		19.9
10	256QAM	1	25		19.43		
10	256QAM	1	49		19.05		
10	256QAM	25	0		19.06		19.9
10	256QAM	25	12		19.33		
10	256QAM	25	25		19.34		
10	256QAM	50	0		19.07		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.31	24.47	24.44	24.9
5	QPSK	1	12	23.98	23.94	23.63	
5	QPSK	1	24	24.26	24.56	24.35	
5	QPSK	12	0	23.25	23.56	23.40	23.9
5	QPSK	12	7	23.14	22.95	23.14	
5	QPSK	12	13	23.07	23.50	23.46	
5	QPSK	25	0	23.17	23.17	23.07	23.9
5	16QAM	1	0	23.61	23.61	23.35	
5	16QAM	1	12	23.11	22.98	23.08	
5	16QAM	1	24	23.46	23.38	23.31	22.9
5	16QAM	12	0	22.17	21.96	22.05	
5	16QAM	12	7	22.00	21.99	21.87	
5	16QAM	12	13	22.01	22.42	22.34	22.9
5	16QAM	25	0	21.94	22.25	22.03	
5	64QAM	1	0	22.18	22.38	22.37	
5	64QAM	1	12	21.81	22.00	21.95	22.9
5	64QAM	1	24	22.49	22.77	22.39	
5	64QAM	12	0	20.99	21.19	21.09	
5	64QAM	12	7	21.02	21.18	21.19	21.9
5	64QAM	12	13	21.37	21.34	21.21	
5	64QAM	25	0	20.94	21.13	21.20	
5	256QAM	1	0	18.95	19.17	18.82	19.9
5	256QAM	1	12	19.28	19.40	18.99	
5	256QAM	1	24	18.89	19.00	18.85	
5	256QAM	12	0	18.66	18.77	18.56	19.9
5	256QAM	12	7	19.00	19.07	19.13	
5	256QAM	12	13	19.13	19.15	18.90	
5	256QAM	25	0	18.81	18.93	18.81	



<LTE Band 17_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	25.47	25.56	25.51	25.7
10	QPSK	1	25	25.46	25.45	25.43	
10	QPSK	1	49	25.45	25.39	25.39	
10	QPSK	25	0	24.55	24.63	24.58	24.7
10	QPSK	25	12	24.61	24.58	24.58	
10	QPSK	25	25	24.56	24.57	24.52	
10	QPSK	50	0	24.58	24.60	24.55	24.7
10	16QAM	1	0	24.54	24.70	24.68	
10	16QAM	1	25	24.70	24.70	24.70	
10	16QAM	1	49	24.65	24.66	24.61	23.7
10	16QAM	25	0	23.49	23.52	23.52	
10	16QAM	25	12	23.57	23.59	23.56	
10	16QAM	25	25	23.63	23.56	23.51	23.7
10	16QAM	50	0	23.51	23.55	23.52	
10	64QAM	1	0	23.68	23.68	23.62	
10	64QAM	1	25	23.37	23.63	23.38	22.7
10	64QAM	1	49	23.63	23.67	23.34	
10	64QAM	25	0	22.45	22.50	22.52	
10	64QAM	25	12	22.56	22.57	22.58	20.7
10	64QAM	25	25	22.63	22.56	22.51	
10	64QAM	50	0	22.56	22.54	22.53	
10	256QAM	1	0	20.39	20.48	20.38	20.7
10	256QAM	1	25	20.35	20.44	20.32	
10	256QAM	1	49	20.37	20.56	20.48	
10	256QAM	25	0	20.45	20.60	20.47	20.7
10	256QAM	25	12	20.53	20.67	20.52	
10	256QAM	25	25	20.47	20.56	20.43	
10	256QAM	50	0	20.45	20.56	20.41	25.7
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	25.33	25.40	25.44	24.7
5	QPSK	1	12	25.28	25.45	25.25	
5	QPSK	1	24	25.44	25.22	25.24	
5	QPSK	12	0	24.47	24.60	24.41	24.7
5	QPSK	12	7	24.59	24.52	24.44	
5	QPSK	12	13	24.48	24.50	24.32	
5	QPSK	25	0	24.44	24.57	24.50	24.7
5	16QAM	1	0	24.54	24.68	24.55	
5	16QAM	1	12	24.55	24.51	24.63	
5	16QAM	1	24	24.48	24.64	24.59	23.7
5	16QAM	12	0	23.45	23.51	23.50	
5	16QAM	12	7	23.47	23.54	23.48	
5	16QAM	12	13	23.55	23.50	23.37	23.7
5	16QAM	25	0	23.41	23.35	23.33	
5	64QAM	1	0	23.61	23.65	23.44	
5	64QAM	1	12	23.36	23.57	23.29	22.7
5	64QAM	1	24	23.57	23.64	23.16	
5	64QAM	12	0	22.29	22.32	22.47	
5	64QAM	12	7	22.43	22.45	22.45	20.7
5	64QAM	12	13	22.50	22.39	22.35	
5	64QAM	25	0	22.43	22.43	22.52	
5	256QAM	1	0	20.35	20.36	20.35	20.7
5	256QAM	1	12	20.17	20.35	20.24	
5	256QAM	1	24	20.34	20.49	20.30	
5	256QAM	12	0	20.33	20.40	20.28	20.7
5	256QAM	12	7	20.42	20.61	20.32	
5	256QAM	12	13	20.46	20.36	20.40	
5	256QAM	25	0	20.40	20.43	20.24	



<LTE Band 17_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	25.47	25.56	25.51	25.7
10	QPSK	1	25	25.46	25.45	25.43	
10	QPSK	1	49	25.45	25.39	25.39	
10	QPSK	25	0	24.55	24.63	24.58	24.7
10	QPSK	25	12	24.61	24.58	24.58	
10	QPSK	25	25	24.56	24.57	24.52	
10	QPSK	50	0	24.58	24.60	24.55	24.7
10	16QAM	1	0	24.54	24.70	24.68	
10	16QAM	1	25	24.70	24.70	24.70	
10	16QAM	1	49	24.65	24.66	24.61	23.7
10	16QAM	25	0	23.49	23.52	23.52	
10	16QAM	25	12	23.57	23.59	23.56	
10	16QAM	25	25	23.63	23.56	23.51	23.7
10	16QAM	50	0	23.51	23.55	23.52	
10	64QAM	1	0	23.68	23.68	23.62	
10	64QAM	1	25	23.37	23.63	23.38	22.7
10	64QAM	1	49	23.63	23.67	23.34	
10	64QAM	25	0	22.45	22.50	22.52	
10	64QAM	25	12	22.56	22.57	22.58	20.7
10	64QAM	25	25	22.63	22.56	22.51	
10	64QAM	50	0	22.56	22.54	22.53	
10	256QAM	1	0	20.39	20.48	20.38	20.7
10	256QAM	1	25	20.35	20.44	20.32	
10	256QAM	1	49	20.37	20.56	20.48	
10	256QAM	25	0	20.45	20.60	20.47	20.7
10	256QAM	25	12	20.53	20.67	20.52	
10	256QAM	25	25	20.47	20.56	20.43	
10	256QAM	50	0	20.45	20.56	20.41	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	25.33	25.40	25.44	25.7
5	QPSK	1	12	25.28	25.45	25.25	
5	QPSK	1	24	25.44	25.22	25.24	
5	QPSK	12	0	24.47	24.60	24.41	24.7
5	QPSK	12	7	24.59	24.52	24.44	
5	QPSK	12	13	24.48	24.50	24.32	
5	QPSK	25	0	24.44	24.57	24.50	24.7
5	16QAM	1	0	24.54	24.68	24.55	
5	16QAM	1	12	24.55	24.51	24.63	
5	16QAM	1	24	24.48	24.64	24.59	23.7
5	16QAM	12	0	23.45	23.51	23.50	
5	16QAM	12	7	23.47	23.54	23.48	
5	16QAM	12	13	23.55	23.50	23.37	23.7
5	16QAM	25	0	23.41	23.35	23.33	
5	64QAM	1	0	23.61	23.65	23.44	
5	64QAM	1	12	23.36	23.57	23.29	22.7
5	64QAM	1	24	23.57	23.64	23.16	
5	64QAM	12	0	22.29	22.32	22.47	
5	64QAM	12	7	22.43	22.45	22.45	20.7
5	64QAM	12	13	22.50	22.39	22.35	
5	64QAM	25	0	22.43	22.43	22.52	
5	256QAM	1	0	20.35	20.36	20.35	20.7
5	256QAM	1	12	20.17	20.35	20.24	
5	256QAM	1	24	20.34	20.49	20.30	
5	256QAM	12	0	20.33	20.40	20.28	20.7
5	256QAM	12	7	20.42	20.61	20.32	
5	256QAM	12	13	20.46	20.36	20.40	
5	256QAM	25	0	20.40	20.43	20.24	



<LTE Band 17_Ant 1_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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	25.47	25.56	25.51	
10	QPSK	1	25	25.46	25.45	25.43	25.7
10	QPSK	1	49	25.45	25.39	25.39	
10	QPSK	25	0	24.55	24.63	24.58	
10	QPSK	25	12	24.61	24.58	24.58	24.7
10	QPSK	25	25	24.56	24.57	24.52	
10	QPSK	50	0	24.58	24.60	24.55	
10	16QAM	1	0	24.54	24.70	24.68	24.7
10	16QAM	1	25	24.70	24.70	24.70	
10	16QAM	1	49	24.65	24.66	24.61	
10	16QAM	25	0	23.49	23.52	23.52	23.7
10	16QAM	25	12	23.57	23.59	23.56	
10	16QAM	25	25	23.63	23.56	23.51	
10	16QAM	50	0	23.51	23.55	23.52	23.7
10	64QAM	1	0	23.68	23.68	23.62	
10	64QAM	1	25	23.37	23.63	23.38	
10	64QAM	1	49	23.63	23.67	23.34	22.7
10	64QAM	25	0	22.45	22.50	22.52	
10	64QAM	25	12	22.56	22.57	22.58	
10	64QAM	25	25	22.63	22.56	22.51	20.7
10	64QAM	50	0	22.56	22.54	22.53	
10	256QAM	1	0	20.39	20.48	20.38	
10	256QAM	1	25	20.35	20.44	20.32	20.7
10	256QAM	1	49	20.37	20.56	20.48	
10	256QAM	25	0	20.45	20.60	20.47	
10	256QAM	25	12	20.53	20.67	20.52	20.7
10	256QAM	25	25	20.47	20.56	20.43	
10	256QAM	50	0	20.45	20.56	20.41	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	25.33	25.40	25.44	25.7
5	QPSK	1	12	25.28	25.45	25.25	
5	QPSK	1	24	25.44	25.22	25.24	
5	QPSK	12	0	24.47	24.60	24.41	24.7
5	QPSK	12	7	24.59	24.52	24.44	
5	QPSK	12	13	24.48	24.50	24.32	
5	QPSK	25	0	24.44	24.57	24.50	24.7
5	16QAM	1	0	24.54	24.68	24.55	
5	16QAM	1	12	24.55	24.51	24.63	
5	16QAM	1	24	24.48	24.64	24.59	23.7
5	16QAM	12	0	23.45	23.51	23.50	
5	16QAM	12	7	23.47	23.54	23.48	
5	16QAM	12	13	23.55	23.50	23.37	23.7
5	16QAM	25	0	23.41	23.35	23.33	
5	64QAM	1	0	23.61	23.65	23.44	
5	64QAM	1	12	23.36	23.57	23.29	22.7
5	64QAM	1	24	23.57	23.64	23.16	
5	64QAM	12	0	22.29	22.32	22.47	
5	64QAM	12	7	22.43	22.45	22.45	20.7
5	64QAM	12	13	22.50	22.39	22.35	
5	64QAM	25	0	22.43	22.43	22.52	
5	256QAM	1	0	20.35	20.36	20.35	20.7
5	256QAM	1	12	20.17	20.35	20.24	
5	256QAM	1	24	20.34	20.49	20.30	
5	256QAM	12	0	20.33	20.40	20.28	20.7
5	256QAM	12	7	20.42	20.61	20.32	
5	256QAM	12	13	20.46	20.36	20.40	
5	256QAM	25	0	20.40	20.43	20.24	



<LTE Band 25_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	25.25	25.27	25.20	
20	QPSK	1	49	25.21	25.22	25.19	25.7
20	QPSK	1	99	25.16	25.14	25.12	
20	QPSK	50	0	24.25	24.36	24.25	
20	QPSK	50	24	24.34	24.30	24.25	24.7
20	QPSK	50	50	24.28	24.34	24.32	
20	QPSK	100	0	24.30	24.38	24.25	
20	16QAM	1	0	24.60	24.58	24.54	24.7
20	16QAM	1	49	24.58	24.60	24.63	
20	16QAM	1	99	24.39	24.58	24.54	
20	16QAM	50	0	23.26	23.27	23.23	23.7
20	16QAM	50	24	23.33	23.37	23.25	
20	16QAM	50	50	23.28	23.33	23.29	
20	16QAM	100	0	23.30	23.34	23.24	23.7
20	64QAM	1	0	23.55	23.67	23.50	
20	64QAM	1	49	23.48	23.52	23.57	
20	64QAM	1	99	23.39	23.43	23.66	22.7
20	64QAM	50	0	22.24	22.28	22.22	
20	64QAM	50	24	22.31	22.37	22.24	
20	64QAM	50	50	22.27	22.30	22.29	20.7
20	64QAM	100	0	22.30	22.32	22.24	
20	256QAM	1	0	20.35	20.37	20.22	
20	256QAM	1	49	20.38	20.40	20.32	20.7
20	256QAM	1	99	20.44	20.46	20.31	
20	256QAM	50	0	20.31	20.40	20.27	
20	256QAM	50	24	20.41	20.45	20.32	20.7
20	256QAM	50	50	20.38	20.43	20.34	
20	256QAM	100	0	20.34	20.41	20.24	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	25.24	25.20	25.07	
15	QPSK	1	37	25.17	25.22	25.11	25.7
15	QPSK	1	74	25.03	25.12	25.04	
15	QPSK	36	0	24.20	24.28	24.08	24.7
15	QPSK	36	20	24.25	24.11	24.10	
15	QPSK	36	39	24.23	24.16	24.18	
15	QPSK	75	0	24.27	24.35	24.21	24.7
15	16QAM	1	0	24.60	24.40	24.42	
15	16QAM	1	37	24.41	24.55	24.58	
15	16QAM	1	74	24.24	24.39	24.41	23.7
15	16QAM	36	0	23.24	23.17	23.17	
15	16QAM	36	20	23.17	23.36	23.05	
15	16QAM	36	39	23.28	23.16	23.11	23.7
15	16QAM	75	0	23.28	23.21	23.17	
15	64QAM	1	0	23.48	23.57	23.41	
15	64QAM	1	37	23.39	23.33	23.55	22.7
15	64QAM	1	74	23.32	23.29	23.65	
15	64QAM	36	0	22.21	22.28	22.08	
15	64QAM	36	20	22.22	22.32	22.14	20.7
15	64QAM	36	39	22.15	22.22	22.13	
15	64QAM	75	0	22.29	22.20	22.15	
15	256QAM	1	0	20.20	20.37	20.04	20.7
15	256QAM	1	37	20.30	20.25	20.30	
15	256QAM	1	74	20.36	20.41	20.26	
15	256QAM	36	0	20.31	20.24	20.21	20.7
15	256QAM	36	20	20.39	20.27	20.29	



FCC SAR TEST REPORT

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15	256QAM	36	39	20.18	20.26	20.23	Tune-up limit (dBm)
15	256QAM	75	0	20.29	20.33	20.11	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	25.10	25.12	25.10	25.7
10	QPSK	1	25	25.06	25.14	25.18	
10	QPSK	1	49	25.03	25.02	25.02	
10	QPSK	25	0	24.12	24.21	24.08	24.7
10	QPSK	25	12	24.27	24.22	24.10	
10	QPSK	25	25	24.10	24.19	24.15	
10	QPSK	50	0	24.18	24.26	24.11	
10	16QAM	1	0	24.47	24.57	24.53	24.7
10	16QAM	1	25	24.51	24.53	24.57	
10	16QAM	1	49	24.31	24.51	24.36	
10	16QAM	25	0	23.20	23.20	23.23	23.7
10	16QAM	25	12	23.30	23.29	23.21	
10	16QAM	25	25	23.20	23.18	23.27	
10	16QAM	50	0	23.26	23.18	23.07	
10	64QAM	1	0	23.54	23.67	23.48	23.7
10	64QAM	1	25	23.35	23.47	23.54	
10	64QAM	1	49	23.36	23.34	23.50	
10	64QAM	25	0	22.16	22.17	22.04	22.7
10	64QAM	25	12	22.16	22.30	22.06	
10	64QAM	25	25	22.19	22.22	22.27	
10	64QAM	50	0	22.27	22.31	22.24	
10	256QAM	1	0	20.30	20.37	20.03	20.7
10	256QAM	1	25	20.34	20.28	20.14	
10	256QAM	1	49	20.42	20.26	20.31	
10	256QAM	25	0	20.31	20.32	20.12	20.7
10	256QAM	25	12	20.33	20.41	20.22	
10	256QAM	25	25	20.29	20.26	20.14	
10	256QAM	50	0	20.25	20.29	20.05	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	25.11	25.10	25.10	25.7
5	QPSK	1	12	25.17	25.19	25.16	
5	QPSK	1	24	25.12	25.14	25.00	
5	QPSK	12	0	24.18	24.16	24.11	24.7
5	QPSK	12	7	24.23	24.27	24.08	
5	QPSK	12	13	24.27	24.15	24.27	
5	QPSK	25	0	24.15	24.27	24.15	
5	16QAM	1	0	24.44	24.47	24.37	24.7
5	16QAM	1	12	24.45	24.52	24.44	
5	16QAM	1	24	24.34	24.58	24.37	
5	16QAM	12	0	23.21	23.17	23.19	23.7
5	16QAM	12	7	23.30	23.24	23.20	
5	16QAM	12	13	23.08	23.23	23.25	
5	16QAM	25	0	23.17	23.21	23.14	
5	64QAM	1	0	23.35	23.59	23.42	23.7
5	64QAM	1	12	23.35	23.38	23.52	
5	64QAM	1	24	23.26	23.42	23.64	
5	64QAM	12	0	22.13	22.10	22.03	22.7
5	64QAM	12	7	22.20	22.29	22.06	
5	64QAM	12	13	22.08	22.27	22.16	
5	64QAM	25	0	22.17	22.19	22.19	
5	256QAM	1	0	20.22	20.21	20.14	20.7
5	256QAM	1	12	20.31	20.30	20.22	
5	256QAM	1	24	20.39	20.34	20.23	
5	256QAM	12	0	20.11	20.34	20.18	20.7
5	256QAM	12	7	20.24	20.33	20.31	
5	256QAM	12	13	20.24	20.37	20.16	
5	256QAM	25	0	20.22	20.23	20.24	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	25.05	25.25	25.02	25.7
3	QPSK	1	8	25.19	25.17	25.05	
3	QPSK	1	14	25.14	25.08	24.93	
3	QPSK	8	0	24.13	24.18	24.08	24.7
3	QPSK	8	4	24.17	24.29	24.13	
3	QPSK	8	7	24.24	24.34	24.15	
3	QPSK	15	0	24.12	24.34	24.23	
3	16QAM	1	0	24.57	24.50	24.44	24.7
3	16QAM	1	8	24.46	24.53	24.46	
3	16QAM	1	14	24.36	24.47	24.49	
3	16QAM	8	0	23.08	23.23	23.19	23.7
3	16QAM	8	4	23.33	23.31	23.08	
3	16QAM	8	7	23.24	23.21	23.26	
3	16QAM	15	0	23.28	23.22	23.21	
3	64QAM	1	0	23.43	23.67	23.33	23.7
3	64QAM	1	8	23.47	23.50	23.44	
3	64QAM	1	14	23.20	23.37	23.64	
3	64QAM	8	0	22.17	22.12	22.07	22.7
3	64QAM	8	4	22.19	22.24	22.10	
3	64QAM	8	7	22.08	22.28	22.20	
3	64QAM	15	0	22.20	22.27	22.20	
3	256QAM	1	0	20.17	20.27	20.05	20.7
3	256QAM	1	8	20.21	20.28	20.31	
3	256QAM	1	14	20.44	20.42	20.18	
3	256QAM	8	0	20.16	20.20	20.08	20.7
3	256QAM	8	4	20.36	20.37	20.23	
3	256QAM	8	7	20.26	20.36	20.34	
3	256QAM	15	0	20.31	20.28	20.17	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	25.10	25.25	25.20	25.7
1.4	QPSK	1	3	25.01	25.06	25.19	
1.4	QPSK	1	5	25.04	25.10	25.01	
1.4	QPSK	3	0	25.22	25.14	25.19	
1.4	QPSK	3	1	25.19	25.15	25.06	
1.4	QPSK	3	3	25.10	25.00	25.01	
1.4	QPSK	6	0	24.24	24.18	24.18	24.7
1.4	16QAM	1	0	24.29	24.18	24.05	24.7
1.4	16QAM	1	3	24.17	24.20	24.21	
1.4	16QAM	1	5	24.15	24.20	24.19	
1.4	16QAM	3	0	24.50	24.53	24.54	
1.4	16QAM	3	1	24.41	24.45	24.48	
1.4	16QAM	3	3	24.19	24.44	24.34	23.7
1.4	16QAM	6	0	23.09	23.14	23.09	
1.4	64QAM	1	0	23.30	23.19	23.17	
1.4	64QAM	1	3	23.14	23.14	23.17	23.7
1.4	64QAM	1	5	23.17	23.23	23.24	
1.4	64QAM	3	0	23.46	23.57	23.34	
1.4	64QAM	3	1	23.43	23.39	23.50	
1.4	64QAM	3	3	23.29	23.33	23.51	22.7
1.4	64QAM	6	0	22.06	22.10	22.04	
1.4	256QAM	1	0	20.20	20.19	20.21	
1.4	256QAM	1	3	20.38	20.21	20.12	20.7
1.4	256QAM	1	5	20.37	20.28	20.14	
1.4	256QAM	3	0	20.13	20.24	20.07	
1.4	256QAM	3	1	20.32	20.43	20.18	
1.4	256QAM	3	3	20.27	20.33	20.31	20.7
1.4	256QAM	6	0	20.14	20.38	20.16	



<LTE Band 25_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.52	24.55	24.49	
20	QPSK	1	49	24.50	24.52	24.47	24.7
20	QPSK	1	99	24.43	24.44	24.44	
20	QPSK	50	0	23.57	23.66	23.51	
20	QPSK	50	24	23.62	23.58	23.55	23.7
20	QPSK	50	50	23.58	23.61	23.58	
20	QPSK	100	0	23.61	23.62	23.52	
20	16QAM	1	0	23.63	23.62	23.69	23.7
20	16QAM	1	49	23.62	23.69	23.64	
20	16QAM	1	99	23.65	23.62	23.64	
20	16QAM	50	0	22.56	22.56	22.50	22.7
20	16QAM	50	24	22.65	22.64	22.51	
20	16QAM	50	50	22.55	22.58	22.57	
20	16QAM	100	0	22.61	22.61	22.51	22.7
20	64QAM	1	0	22.62	22.62	22.61	
20	64QAM	1	49	22.63	22.60	22.69	
20	64QAM	1	99	22.64	22.62	22.69	21.7
20	64QAM	50	0	21.53	21.56	21.52	
20	64QAM	50	24	21.66	21.65	21.53	
20	64QAM	50	50	21.59	21.57	21.58	19.7
20	64QAM	100	0	21.60	21.61	21.49	
20	256QAM	1	0	19.55	19.67	19.53	
20	256QAM	1	49	19.69	19.63	19.62	19.7
20	256QAM	1	99	19.64	19.60	19.63	
20	256QAM	50	0	19.63	19.67	19.52	
20	256QAM	50	24	19.69	19.61	19.64	19.7
20	256QAM	50	50	19.68	19.63	19.63	
20	256QAM	100	0	19.66	19.66	19.68	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	24.38	24.44	24.38	
15	QPSK	1	37	24.35	24.33	24.31	24.7
15	QPSK	1	74	24.33	24.25	24.24	
15	QPSK	36	0	23.47	23.46	23.36	23.7
15	QPSK	36	20	23.51	23.46	23.44	
15	QPSK	36	39	23.38	23.43	23.42	
15	QPSK	75	0	23.51	23.46	23.41	23.7
15	16QAM	1	0	23.48	23.48	23.54	
15	16QAM	1	37	23.43	23.59	23.52	
15	16QAM	1	74	23.49	23.51	23.50	22.7
15	16QAM	36	0	22.46	22.38	22.34	
15	16QAM	36	20	22.48	22.52	22.39	
15	16QAM	36	39	22.40	22.48	22.42	22.7
15	16QAM	75	0	22.46	22.50	22.34	
15	64QAM	1	0	22.51	22.47	22.47	
15	64QAM	1	37	22.45	22.47	22.55	22.7
15	64QAM	1	74	22.52	22.52	22.53	
15	64QAM	36	0	21.38	21.41	21.33	
15	64QAM	36	20	21.55	21.46	21.37	21.7
15	64QAM	36	39	21.43	21.46	21.41	
15	64QAM	75	0	21.42	21.46	21.32	
15	256QAM	1	0	19.44	19.56	19.35	19.7
15	256QAM	1	37	19.55	19.44	19.47	
15	256QAM	1	74	19.44	19.42	19.50	
15	256QAM	36	0	19.43	19.54	19.37	19.7
15	256QAM	36	20	19.54	19.42	19.46	



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15	256QAM	36	39	19.48	19.47	19.45	Tune-up limit (dBm)
15	256QAM	75	0	19.54	19.48	19.57	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.40	24.35	24.34	24.7
10	QPSK	1	25	24.40	24.38	24.32	
10	QPSK	1	49	24.28	24.24	24.26	
10	QPSK	25	0	23.46	23.55	23.33	23.7
10	QPSK	25	12	23.43	23.45	23.39	
10	QPSK	25	25	23.40	23.41	23.38	
10	QPSK	50	0	23.51	23.50	23.34	
10	16QAM	1	0	23.51	23.42	23.49	23.7
10	16QAM	1	25	23.47	23.54	23.46	
10	16QAM	1	49	23.55	23.44	23.47	
10	16QAM	25	0	22.42	22.37	22.39	22.7
10	16QAM	25	12	22.50	22.54	22.40	
10	16QAM	25	25	22.36	22.45	22.42	
10	16QAM	50	0	22.43	22.47	22.40	
10	64QAM	1	0	22.45	22.42	22.42	22.7
10	64QAM	1	25	22.50	22.47	22.56	
10	64QAM	1	49	22.48	22.50	22.52	
10	64QAM	25	0	21.43	21.37	21.35	21.7
10	64QAM	25	12	21.54	21.50	21.34	
10	64QAM	25	25	21.47	21.41	21.48	
10	64QAM	50	0	21.44	21.46	21.38	
10	256QAM	1	0	19.35	19.49	19.37	19.7
10	256QAM	1	25	19.55	19.47	19.46	
10	256QAM	1	49	19.51	19.40	19.48	
10	256QAM	25	0	19.51	19.48	19.36	19.7
10	256QAM	25	12	19.53	19.44	19.50	
10	256QAM	25	25	19.50	19.52	19.52	
10	256QAM	50	0	19.46	19.54	19.58	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.32	24.42	24.37	24.7
5	QPSK	1	12	24.34	24.35	24.27	
5	QPSK	1	24	24.31	24.34	24.30	
5	QPSK	12	0	23.45	23.50	23.36	23.7
5	QPSK	12	7	23.50	23.38	23.42	
5	QPSK	12	13	23.47	23.43	23.38	
5	QPSK	25	0	23.44	23.43	23.34	
5	16QAM	1	0	23.53	23.46	23.53	23.7
5	16QAM	1	12	23.42	23.53	23.52	
5	16QAM	1	24	23.45	23.50	23.44	
5	16QAM	12	0	22.37	22.38	22.40	22.7
5	16QAM	12	7	22.49	22.51	22.38	
5	16QAM	12	13	22.41	22.47	22.40	
5	16QAM	25	0	22.44	22.46	22.33	
5	64QAM	1	0	22.51	22.50	22.48	22.7
5	64QAM	1	12	22.50	22.49	22.50	
5	64QAM	1	24	22.49	22.48	22.52	
5	64QAM	12	0	21.38	21.46	21.35	21.7
5	64QAM	12	7	21.56	21.45	21.40	
5	64QAM	12	13	21.47	21.43	21.41	
5	64QAM	25	0	21.41	21.49	21.37	
5	256QAM	1	0	19.43	19.56	19.42	19.7
5	256QAM	1	12	19.51	19.48	19.46	
5	256QAM	1	24	19.50	19.42	19.51	
5	256QAM	12	0	19.49	19.55	19.37	19.7
5	256QAM	12	7	19.56	19.50	19.53	
5	256QAM	12	13	19.56	19.51	19.51	
5	256QAM	25	0	19.47	19.49	19.54	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	24.39	24.35	24.31	24.7
3	QPSK	1	8	24.36	24.38	24.28	
3	QPSK	1	14	24.33	24.30	24.30	
3	QPSK	8	0	23.43	23.50	23.34	23.7
3	QPSK	8	4	23.45	23.40	23.38	
3	QPSK	8	7	23.43	23.41	23.43	
3	QPSK	15	0	23.43	23.48	23.42	
3	16QAM	1	0	23.52	23.43	23.50	23.7
3	16QAM	1	8	23.45	23.51	23.48	
3	16QAM	1	14	23.52	23.52	23.51	
3	16QAM	8	0	22.38	22.40	22.34	22.7
3	16QAM	8	4	22.50	22.45	22.38	
3	16QAM	8	7	22.45	22.41	22.43	
3	16QAM	15	0	22.44	22.51	22.31	
3	64QAM	1	0	22.42	22.48	22.44	22.7
3	64QAM	1	8	22.43	22.48	22.54	
3	64QAM	1	14	22.45	22.47	22.55	
3	64QAM	8	0	21.40	21.43	21.37	21.7
3	64QAM	8	4	21.50	21.55	21.43	
3	64QAM	8	7	21.45	21.40	21.38	
3	64QAM	15	0	21.46	21.46	21.38	
3	256QAM	1	0	19.39	19.56	19.36	19.7
3	256QAM	1	8	19.52	19.48	19.50	
3	256QAM	1	14	19.49	19.45	19.44	
3	256QAM	8	0	19.48	19.48	19.41	19.7
3	256QAM	8	4	19.51	19.45	19.46	
3	256QAM	8	7	19.56	19.48	19.51	
3	256QAM	15	0	19.46	19.51	19.56	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.25	24.19	24.21	24.7
1.4	QPSK	1	3	24.23	24.18	24.17	
1.4	QPSK	1	5	24.17	24.12	24.17	
1.4	QPSK	3	0	23.55	23.56	23.49	
1.4	QPSK	3	1	23.60	23.65	23.53	
1.4	QPSK	3	3	23.56	23.60	23.57	
1.4	QPSK	6	0	23.60	23.61	23.51	23.7
1.4	16QAM	1	0	23.33	23.33	23.38	23.7
1.4	16QAM	1	3	23.26	23.35	23.30	
1.4	16QAM	1	5	23.33	23.40	23.38	
1.4	16QAM	3	0	23.37	23.28	23.30	
1.4	16QAM	3	1	23.31	23.39	23.29	
1.4	16QAM	3	3	23.33	23.32	23.32	22.7
1.4	16QAM	6	0	22.59	22.59	22.50	
1.4	64QAM	1	0	22.28	22.28	22.31	
1.4	64QAM	1	3	22.26	22.38	22.43	22.7
1.4	64QAM	1	5	22.29	22.31	22.40	
1.4	64QAM	3	0	22.25	22.38	22.30	
1.4	64QAM	3	1	22.28	22.34	22.34	
1.4	64QAM	3	3	22.35	22.31	22.40	21.7
1.4	64QAM	6	0	21.58	21.59	21.48	
1.4	256QAM	1	0	19.23	19.40	19.17	
1.4	256QAM	1	3	19.41	19.31	19.34	19.7
1.4	256QAM	1	5	19.39	19.33	19.28	
1.4	256QAM	3	0	19.26	19.45	19.23	
1.4	256QAM	3	1	19.41	19.37	19.38	
1.4	256QAM	3	3	19.37	19.29	19.28	19.7
1.4	256QAM	6	0	19.65	19.64	19.66	



<LTE Band 25_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.66	21.95	21.65	
20	QPSK	1	49	21.69	21.70	21.71	22
20	QPSK	1	99	21.62	21.63	21.65	
20	QPSK	50	0	20.71	20.79	20.68	
20	QPSK	50	24	20.77	20.78	20.71	21
20	QPSK	50	50	20.73	20.75	20.77	
20	QPSK	100	0	20.76	20.79	20.69	
20	16QAM	1	0	20.95	20.99	20.94	21
20	16QAM	1	49	20.92	20.98	20.96	
20	16QAM	1	99	20.89	20.91	20.91	
20	16QAM	50	0	19.71	19.75	19.72	20
20	16QAM	50	24	19.79	19.82	19.74	
20	16QAM	50	50	19.74	19.78	19.78	
20	16QAM	100	0	19.77	19.79	19.72	20
20	64QAM	1	0	19.80	19.82	19.81	
20	64QAM	1	49	19.83	19.99	19.89	
20	64QAM	1	99	19.75	19.79	19.81	19
20	64QAM	50	0	18.73	18.75	18.71	
20	64QAM	50	24	18.79	18.83	18.74	
20	64QAM	50	50	18.71	18.78	18.80	17
20	64QAM	100	0	18.79	18.81	18.72	
20	256QAM	1	0	16.07	15.98	16.00	
20	256QAM	1	49	16.23	16.09	16.07	17
20	256QAM	1	99	16.11	16.00	16.27	
20	256QAM	50	0	16.25	16.07	16.21	
20	256QAM	50	24	16.24	16.21	16.41	17
20	256QAM	50	50	16.17	16.20	16.16	
20	256QAM	100	0	16.01	16.01	16.17	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.49	21.94	21.52	
15	QPSK	1	37	21.68	21.67	21.68	22
15	QPSK	1	74	21.54	21.46	21.65	
15	QPSK	36	0	20.68	20.78	20.51	21
15	QPSK	36	20	20.61	20.61	20.57	
15	QPSK	36	39	20.67	20.62	20.75	
15	QPSK	75	0	20.56	20.64	20.53	21
15	16QAM	1	0	20.78	20.98	20.87	
15	16QAM	1	37	20.88	20.91	20.94	
15	16QAM	1	74	20.80	20.88	20.91	20
15	16QAM	36	0	19.61	19.55	19.69	
15	16QAM	36	20	19.73	19.63	19.70	
15	16QAM	36	39	19.56	19.72	19.60	20
15	16QAM	75	0	19.59	19.71	19.52	
15	64QAM	1	0	19.80	19.66	19.67	
15	64QAM	1	37	19.75	19.93	19.89	19
15	64QAM	1	74	19.60	19.59	19.66	
15	64QAM	36	0	18.58	18.69	18.66	
15	64QAM	36	20	18.63	18.74	18.59	17
15	64QAM	36	39	18.60	18.60	18.64	
15	64QAM	75	0	18.67	18.67	18.56	
15	256QAM	1	0	16.05	15.79	15.85	17
15	256QAM	1	37	16.06	15.90	15.88	
15	256QAM	1	74	16.09	15.86	16.23	
15	256QAM	36	0	16.12	15.88	16.17	17
15	256QAM	36	20	16.19	16.16	16.31	



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15	256QAM	36	39	16.13	16.02	16.03	Tune-up limit (dBm)
15	256QAM	75	0	15.89	15.97	16.02	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.46	21.87	21.50	22
10	QPSK	1	25	21.61	21.60	21.63	
10	QPSK	1	49	21.54	21.44	21.57	
10	QPSK	25	0	20.52	20.70	20.61	21
10	QPSK	25	12	20.69	20.63	20.65	
10	QPSK	25	25	20.65	20.57	20.66	
10	QPSK	50	0	20.65	20.74	20.63	
10	16QAM	1	0	20.84	20.79	20.93	21
10	16QAM	1	25	20.86	20.98	20.85	
10	16QAM	1	49	20.69	20.89	20.81	
10	16QAM	25	0	19.69	19.66	19.69	20
10	16QAM	25	12	19.62	19.76	19.54	
10	16QAM	25	25	19.61	19.65	19.63	
10	16QAM	50	0	19.77	19.77	19.70	
10	64QAM	1	0	19.67	19.82	19.63	20
10	64QAM	1	25	19.83	19.90	19.70	
10	64QAM	1	49	19.57	19.68	19.62	
10	64QAM	25	0	18.59	18.64	18.57	19
10	64QAM	25	12	18.71	18.77	18.58	
10	64QAM	25	25	18.57	18.72	18.60	
10	64QAM	50	0	18.61	18.67	18.57	
10	256QAM	1	0	15.88	15.78	15.90	17
10	256QAM	1	25	16.07	16.07	16.00	
10	256QAM	1	49	16.03	15.91	16.07	
10	256QAM	25	0	16.11	15.87	16.11	17
10	256QAM	25	12	16.24	16.14	16.33	
10	256QAM	25	25	16.03	16.13	16.09	
10	256QAM	50	0	15.87	15.89	16.17	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.50	21.83	21.64	22
5	QPSK	1	12	21.60	21.70	21.71	
5	QPSK	1	24	21.46	21.63	21.64	
5	QPSK	12	0	20.56	20.63	20.65	21
5	QPSK	12	7	20.68	20.71	20.59	
5	QPSK	12	13	20.68	20.63	20.62	
5	QPSK	25	0	20.66	20.78	20.59	
5	16QAM	1	0	20.94	20.88	20.77	21
5	16QAM	1	12	20.81	20.98	20.95	
5	16QAM	1	24	20.70	20.75	20.74	
5	16QAM	12	0	19.57	19.64	19.59	20
5	16QAM	12	7	19.65	19.79	19.58	
5	16QAM	12	13	19.69	19.62	19.75	
5	16QAM	25	0	19.68	19.75	19.60	
5	64QAM	1	0	19.61	19.82	19.72	20
5	64QAM	1	12	19.65	19.79	19.77	
5	64QAM	1	24	19.59	19.66	19.64	
5	64QAM	12	0	18.64	18.68	18.70	19
5	64QAM	12	7	18.63	18.77	18.56	
5	64QAM	12	13	18.57	18.65	18.75	
5	64QAM	25	0	18.61	18.80	18.57	
5	256QAM	1	0	16.03	15.85	15.86	17
5	256QAM	1	12	16.16	15.89	15.93	
5	256QAM	1	24	16.11	16.00	16.16	
5	256QAM	12	0	16.14	15.94	16.18	17
5	256QAM	12	7	16.13	16.13	16.33	
5	256QAM	12	13	16.14	16.16	16.03	
5	256QAM	25	0	15.94	15.88	16.09	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	21.49	21.80	21.49	22
3	QPSK	1	8	21.63	21.57	21.62	
3	QPSK	1	14	21.54	21.48	21.56	
3	QPSK	8	0	20.59	20.79	20.51	21
3	QPSK	8	4	20.76	20.76	20.61	
3	QPSK	8	7	20.61	20.62	20.77	
3	QPSK	15	0	20.70	20.64	20.64	
3	16QAM	1	0	20.81	20.94	20.79	21
3	16QAM	1	8	20.84	20.84	20.93	
3	16QAM	1	14	20.81	20.85	20.76	
3	16QAM	8	0	19.62	19.66	19.52	20
3	16QAM	8	4	19.69	19.81	19.57	
3	16QAM	8	7	19.74	19.64	19.70	
3	16QAM	15	0	19.73	19.60	19.53	
3	64QAM	1	0	19.63	19.65	19.62	20
3	64QAM	1	8	19.71	19.88	19.74	
3	64QAM	1	14	19.63	19.61	19.77	
3	64QAM	8	0	18.73	18.70	18.61	19
3	64QAM	8	4	18.61	18.76	18.71	
3	64QAM	8	7	18.67	18.71	18.63	
3	64QAM	15	0	18.77	18.76	18.69	
3	256QAM	1	0	15.97	15.82	15.87	17
3	256QAM	1	8	16.10	16.09	15.96	
3	256QAM	1	14	16.05	15.84	16.13	
3	256QAM	8	0	16.14	16.02	16.01	17
3	256QAM	8	4	16.06	16.17	16.26	
3	256QAM	8	7	16.10	16.00	15.98	
3	256QAM	15	0	15.83	15.88	16.13	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.64	21.77	21.64	22
1.4	QPSK	1	3	21.57	21.66	21.51	
1.4	QPSK	1	5	21.55	21.47	21.60	
1.4	QPSK	3	0	20.66	20.73	20.66	
1.4	QPSK	3	1	20.71	20.64	20.69	
1.4	QPSK	3	3	20.71	20.56	20.70	
1.4	QPSK	6	0	20.63	20.75	20.58	21
1.4	16QAM	1	0	20.85	20.87	20.92	21
1.4	16QAM	1	3	20.75	20.79	20.81	
1.4	16QAM	1	5	20.73	20.86	20.72	
1.4	16QAM	3	0	19.62	19.64	19.53	
1.4	16QAM	3	1	19.78	19.62	19.65	
1.4	16QAM	3	3	19.70	19.58	19.70	20
1.4	16QAM	6	0	19.67	19.65	19.64	
1.4	64QAM	1	0	19.62	19.72	19.80	
1.4	64QAM	1	3	19.81	19.93	19.85	20
1.4	64QAM	1	5	19.72	19.60	19.71	
1.4	64QAM	3	0	18.69	18.61	18.64	
1.4	64QAM	3	1	18.62	18.65	18.70	
1.4	64QAM	3	3	18.58	18.60	18.66	
1.4	64QAM	6	0	18.59	18.75	18.69	19
1.4	256QAM	1	0	15.91	15.97	15.94	17
1.4	256QAM	1	3	16.04	16.03	15.89	
1.4	256QAM	1	5	15.95	15.85	16.24	
1.4	256QAM	3	0	16.10	16.03	16.06	
1.4	256QAM	3	1	16.20	16.20	16.28	
1.4	256QAM	3	3	16.08	16.20	16.09	17
1.4	256QAM	6	0	15.94	15.82	16.00	



<LTE Band 25_Ant 1_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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.66	21.95	21.65	
20	QPSK	1	49	21.69	21.70	21.71	22
20	QPSK	1	99	21.62	21.63	21.65	
20	QPSK	50	0	20.71	20.79	20.68	
20	QPSK	50	24	20.77	20.78	20.71	21
20	QPSK	50	50	20.73	20.75	20.77	
20	QPSK	100	0	20.76	20.79	20.69	
20	16QAM	1	0	20.95	20.99	20.94	21
20	16QAM	1	49	20.92	20.98	20.96	
20	16QAM	1	99	20.89	20.91	20.91	
20	16QAM	50	0	19.71	19.75	19.72	20
20	16QAM	50	24	19.79	19.82	19.74	
20	16QAM	50	50	19.74	19.78	19.78	
20	16QAM	100	0	19.77	19.79	19.72	20
20	64QAM	1	0	19.80	19.82	19.81	
20	64QAM	1	49	19.83	19.99	19.89	
20	64QAM	1	99	19.75	19.79	19.81	19
20	64QAM	50	0	18.73	18.75	18.71	
20	64QAM	50	24	18.79	18.83	18.74	
20	64QAM	50	50	18.71	18.78	18.80	17
20	64QAM	100	0	18.79	18.81	18.72	
20	256QAM	1	0	15.93	15.89	15.94	
20	256QAM	1	49	16.18	15.92	15.95	17
20	256QAM	1	99	16.10	15.80	16.09	
20	256QAM	50	0	16.10	15.99	16.07	
20	256QAM	50	24	16.09	16.10	16.35	17
20	256QAM	50	50	15.99	16.08	16.13	
20	256QAM	100	0	15.93	16.00	16.07	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.61	21.85	21.55	
15	QPSK	1	37	21.63	21.66	21.55	22
15	QPSK	1	74	21.43	21.58	21.46	
15	QPSK	36	0	20.68	20.79	20.56	21
15	QPSK	36	20	20.75	20.78	20.60	
15	QPSK	36	39	20.65	20.64	20.74	
15	QPSK	75	0	20.66	20.78	20.59	21
15	16QAM	1	0	20.85	20.81	20.76	
15	16QAM	1	37	20.82	20.82	20.85	
15	16QAM	1	74	20.70	20.85	20.89	20
15	16QAM	36	0	19.71	19.62	19.55	
15	16QAM	36	20	19.73	19.70	19.56	
15	16QAM	36	39	19.73	19.75	19.60	20
15	16QAM	75	0	19.68	19.63	19.55	
15	64QAM	1	0	19.63	19.82	19.66	
15	64QAM	1	37	19.68	19.91	19.79	19
15	64QAM	1	74	19.59	19.75	19.66	
15	64QAM	36	0	18.71	18.75	18.67	
15	64QAM	36	20	18.60	18.79	18.54	17
15	64QAM	36	39	18.60	18.68	18.77	
15	64QAM	75	0	18.65	18.79	18.68	
15	256QAM	1	0	15.79	15.70	15.81	17
15	256QAM	1	37	16.10	15.77	15.90	
15	256QAM	1	74	16.09	15.78	16.00	
15	256QAM	36	0	15.94	15.85	16.05	17
15	256QAM	36	20	16.06	16.01	16.18	



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15	256QAM	36	39	15.84	15.95	16.06	
15	256QAM	75	0	15.86	15.84	15.88	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.51	21.92	21.51	22
10	QPSK	1	25	21.68	21.52	21.56	
10	QPSK	1	49	21.62	21.43	21.47	
10	QPSK	25	0	20.68	20.59	20.52	21
10	QPSK	25	12	20.75	20.73	20.67	
10	QPSK	25	25	20.60	20.66	20.64	
10	QPSK	50	0	20.57	20.62	20.69	
10	16QAM	1	0	20.84	20.93	20.85	21
10	16QAM	1	25	20.89	20.80	20.94	
10	16QAM	1	49	20.76	20.72	20.76	20
10	16QAM	25	0	19.55	19.59	19.52	
10	16QAM	25	12	19.74	19.62	19.61	
10	16QAM	25	25	19.61	19.73	19.59	
10	16QAM	50	0	19.65	19.79	19.68	20
10	64QAM	1	0	19.68	19.77	19.71	
10	64QAM	1	25	19.78	19.99	19.77	
10	64QAM	1	49	19.72	19.65	19.80	19
10	64QAM	25	0	18.61	18.61	18.60	
10	64QAM	25	12	18.69	18.76	18.58	
10	64QAM	25	25	18.59	18.77	18.61	
10	64QAM	50	0	18.73	18.67	18.64	17
10	256QAM	1	0	15.76	15.69	15.90	
10	256QAM	1	25	16.08	15.75	15.82	
10	256QAM	1	49	15.98	15.70	15.92	
10	256QAM	25	0	16.01	15.96	15.90	17
10	256QAM	25	12	16.03	16.10	16.34	
10	256QAM	25	25	15.84	15.93	15.95	
10	256QAM	50	0	15.89	15.87	15.92	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.64	21.79	21.56	22
5	QPSK	1	12	21.60	21.59	21.61	
5	QPSK	1	24	21.62	21.46	21.49	
5	QPSK	12	0	20.55	20.60	20.68	21
5	QPSK	12	7	20.62	20.76	20.54	
5	QPSK	12	13	20.58	20.71	20.67	
5	QPSK	25	0	20.68	20.60	20.59	
5	16QAM	1	0	20.82	20.83	20.91	21
5	16QAM	1	12	20.88	20.86	20.76	
5	16QAM	1	24	20.82	20.75	20.71	
5	16QAM	12	0	19.51	19.71	19.70	20
5	16QAM	12	7	19.64	19.67	19.58	
5	16QAM	12	13	19.58	19.60	19.61	
5	16QAM	25	0	19.64	19.67	19.57	
5	64QAM	1	0	19.75	19.76	19.81	20
5	64QAM	1	12	19.82	19.86	19.78	
5	64QAM	1	24	19.74	19.62	19.76	
5	64QAM	12	0	18.73	18.61	18.63	19
5	64QAM	12	7	18.74	18.78	18.55	
5	64QAM	12	13	18.59	18.76	18.68	
5	64QAM	25	0	18.70	18.72	18.56	
5	256QAM	1	0	15.91	15.89	15.76	17
5	256QAM	1	12	16.01	15.75	15.95	
5	256QAM	1	24	15.98	15.76	16.07	
5	256QAM	12	0	16.00	15.80	16.06	17
5	256QAM	12	7	15.93	15.92	16.31	
5	256QAM	12	13	15.87	16.04	16.08	
5	256QAM	25	0	15.92	16.00	15.91	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	21.56	21.75	21.51	22
3	QPSK	1	8	21.61	21.67	21.69	
3	QPSK	1	14	21.50	21.57	21.60	
3	QPSK	8	0	20.61	20.62	20.66	21
3	QPSK	8	4	20.71	20.58	20.61	
3	QPSK	8	7	20.61	20.73	20.60	
3	QPSK	15	0	20.66	20.78	20.53	
3	16QAM	1	0	20.83	20.80	20.91	21
3	16QAM	1	8	20.92	20.78	20.76	
3	16QAM	1	14	20.76	20.77	20.80	
3	16QAM	8	0	19.57	19.58	19.66	20
3	16QAM	8	4	19.73	19.74	19.60	
3	16QAM	8	7	19.65	19.66	19.73	
3	16QAM	15	0	19.74	19.77	19.70	
3	64QAM	1	0	19.76	19.76	19.72	20
3	64QAM	1	8	19.65	19.85	19.85	
3	64QAM	1	14	19.70	19.60	19.62	
3	64QAM	8	0	18.70	18.59	18.62	19
3	64QAM	8	4	18.63	18.81	18.67	
3	64QAM	8	7	18.64	18.69	18.65	
3	64QAM	15	0	18.75	18.64	18.64	
3	256QAM	1	0	15.76	15.77	15.83	17
3	256QAM	1	8	16.16	15.80	15.88	
3	256QAM	1	14	15.97	15.68	15.97	
3	256QAM	8	0	15.97	15.88	15.92	17
3	256QAM	8	4	15.89	15.91	16.25	
3	256QAM	8	7	15.98	16.01	16.01	
3	256QAM	15	0	15.83	15.95	15.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.63	21.90	21.62	22
1.4	QPSK	1	3	21.61	21.68	21.60	
1.4	QPSK	1	5	21.46	21.55	21.49	
1.4	QPSK	3	0	20.67	20.60	20.64	
1.4	QPSK	3	1	20.67	20.68	20.63	
1.4	QPSK	3	3	20.59	20.69	20.63	
1.4	QPSK	6	0	20.71	20.73	20.62	21
1.4	16QAM	1	0	20.95	20.97	20.79	21
1.4	16QAM	1	3	20.92	20.83	20.81	
1.4	16QAM	1	5	20.73	20.84	20.84	
1.4	16QAM	3	0	19.61	19.63	19.72	
1.4	16QAM	3	1	19.78	19.80	19.74	
1.4	16QAM	3	3	19.68	19.69	19.59	
1.4	16QAM	6	0	19.65	19.79	19.59	20
1.4	64QAM	1	0	19.61	19.68	19.74	20
1.4	64QAM	1	3	19.76	19.83	19.73	
1.4	64QAM	1	5	19.68	19.62	19.63	
1.4	64QAM	3	0	18.60	18.58	18.64	
1.4	64QAM	3	1	18.78	18.71	18.72	
1.4	64QAM	3	3	18.62	18.76	18.80	
1.4	64QAM	6	0	18.75	18.71	18.54	19
1.4	256QAM	1	0	15.88	15.74	15.82	17
1.4	256QAM	1	3	15.99	15.87	15.89	
1.4	256QAM	1	5	16.01	15.77	15.92	
1.4	256QAM	3	0	15.91	15.93	15.89	
1.4	256QAM	3	1	16.04	15.96	16.22	
1.4	256QAM	3	3	15.82	15.92	16.08	
1.4	256QAM	6	0	15.91	15.91	16.06	17



<LTE Band 26_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	25.49	25.56	25.55	
15	QPSK	1	37	25.48	25.50	25.53	25.7
15	QPSK	1	74	25.41	25.45	25.47	
15	QPSK	36	0	24.54	24.65	24.53	
15	QPSK	36	20	24.58	24.60	24.58	24.7
15	QPSK	36	39	24.55	24.55	24.63	
15	QPSK	75	0	24.57	24.62	24.58	
15	16QAM	1	0	24.50	24.69	24.66	24.7
15	16QAM	1	37	24.60	24.68	24.65	
15	16QAM	1	74	24.67	24.66	24.70	
15	16QAM	36	0	23.48	23.50	23.50	23.7
15	16QAM	36	20	23.51	23.55	23.53	
15	16QAM	36	39	23.49	23.59	23.58	
15	16QAM	75	0	23.53	23.50	23.50	23.7
15	64QAM	1	0	23.64	23.70	23.62	
15	64QAM	1	37	23.68	23.70	23.62	
15	64QAM	1	74	23.62	23.67	23.64	22.7
15	64QAM	36	0	22.47	22.49	22.49	
15	64QAM	36	20	22.53	22.54	22.52	
15	64QAM	36	39	22.52	22.58	22.56	20.7
15	64QAM	75	0	22.52	22.52	22.49	
15	256QAM	1	0	20.40	20.47	20.43	
15	256QAM	1	37	20.42	20.55	20.48	20.7
15	256QAM	1	74	20.50	20.60	20.58	
15	256QAM	36	0	20.33	20.47	20.42	
15	256QAM	36	20	20.42	20.49	20.42	20.7
15	256QAM	36	39	20.38	20.52	20.51	
15	256QAM	75	0	20.36	20.50	20.40	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	25.42	25.53	25.38	
10	QPSK	1	25	25.32	25.50	25.49	25.7
10	QPSK	1	49	25.33	25.41	25.33	
10	QPSK	25	0	24.47	24.57	24.39	
10	QPSK	25	12	24.52	24.48	24.50	24.7
10	QPSK	25	25	24.54	24.45	24.49	
10	QPSK	50	0	24.38	24.57	24.40	
10	16QAM	1	0	24.33	24.49	24.57	24.7
10	16QAM	1	25	24.52	24.61	24.53	
10	16QAM	1	49	24.47	24.57	24.55	
10	16QAM	25	0	23.38	23.36	23.36	23.7
10	16QAM	25	12	23.51	23.40	23.48	
10	16QAM	25	25	23.46	23.39	23.47	
10	16QAM	50	0	23.44	23.30	23.32	23.7
10	64QAM	1	0	23.54	23.66	23.55	
10	64QAM	1	25	23.50	23.63	23.42	
10	64QAM	1	49	23.43	23.48	23.52	22.7
10	64QAM	25	0	22.39	22.49	22.35	
10	64QAM	25	12	22.43	22.49	22.36	
10	64QAM	25	25	22.45	22.45	22.41	20.7
10	64QAM	50	0	22.46	22.49	22.35	
10	256QAM	1	0	20.33	20.46	20.42	
10	256QAM	1	25	20.39	20.42	20.40	20.7
10	256QAM	1	49	20.42	20.45	20.53	
10	256QAM	25	0	20.20	20.35	20.26	
10	256QAM	25	12	20.37	20.44	20.33	



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10	256QAM	25	25	20.20	20.52	20.44	Tune-up limit (dBm)
10	256QAM	50	0	20.34	20.38	20.27	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	25.43	25.44	25.35	25.7
5	QPSK	1	12	25.33	25.30	25.47	
5	QPSK	1	24	25.39	25.26	25.33	
5	QPSK	12	0	24.51	24.45	24.37	24.7
5	QPSK	12	7	24.46	24.47	24.53	
5	QPSK	12	13	24.38	24.43	24.49	
5	QPSK	25	0	24.46	24.52	24.49	
5	16QAM	1	0	24.34	24.62	24.53	24.7
5	16QAM	1	12	24.43	24.58	24.58	
5	16QAM	1	24	24.56	24.60	24.65	
5	16QAM	12	0	23.46	23.41	23.40	23.7
5	16QAM	12	7	23.49	23.39	23.41	
5	16QAM	12	13	23.40	23.54	23.52	
5	16QAM	25	0	23.46	23.36	23.47	
5	64QAM	1	0	23.49	23.54	23.43	23.7
5	64QAM	1	12	23.65	23.65	23.55	
5	64QAM	1	24	23.44	23.59	23.57	
5	64QAM	12	0	22.40	22.49	22.30	22.7
5	64QAM	12	7	22.49	22.51	22.48	
5	64QAM	12	13	22.37	22.51	22.47	
5	64QAM	25	0	22.32	22.33	22.31	
5	256QAM	1	0	20.27	20.37	20.33	20.7
5	256QAM	1	12	20.26	20.36	20.44	
5	256QAM	1	24	20.42	20.53	20.51	
5	256QAM	12	0	20.23	20.42	20.34	20.7
5	256QAM	12	7	20.34	20.31	20.23	
5	256QAM	12	13	20.25	20.41	20.39	
5	256QAM	25	0	20.36	20.45	20.31	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.32	25.40	25.42	25.7
3	QPSK	1	8	25.39	25.30	25.53	
3	QPSK	1	14	25.34	25.43	25.37	
3	QPSK	8	0	24.43	24.51	24.47	24.7
3	QPSK	8	4	24.41	24.53	24.53	
3	QPSK	8	7	24.38	24.50	24.53	
3	QPSK	15	0	24.38	24.56	24.51	
3	16QAM	1	0	24.35	24.49	24.51	24.7
3	16QAM	1	8	24.51	24.56	24.57	
3	16QAM	1	14	24.47	24.59	24.60	
3	16QAM	8	0	23.35	23.39	23.48	23.7
3	16QAM	8	4	23.47	23.50	23.49	
3	16QAM	8	7	23.46	23.51	23.43	
3	16QAM	15	0	23.34	23.36	23.39	
3	64QAM	1	0	23.60	23.58	23.43	23.7
3	64QAM	1	8	23.49	23.50	23.48	
3	64QAM	1	14	23.57	23.52	23.44	
3	64QAM	8	0	22.37	22.36	22.46	22.7
3	64QAM	8	4	22.53	22.38	22.40	
3	64QAM	8	7	22.36	22.56	22.44	
3	64QAM	15	0	22.48	22.44	22.30	
3	256QAM	1	0	20.35	20.43	20.25	20.7
3	256QAM	1	8	20.25	20.51	20.44	
3	256QAM	1	14	20.50	20.52	20.38	
3	256QAM	8	0	20.28	20.42	20.40	20.7
3	256QAM	8	4	20.26	20.33	20.30	
3	256QAM	8	7	20.23	20.45	20.34	
3	256QAM	15	0	20.33	20.35	20.22	



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Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	25.36	25.37	25.51	25.7
1.4	QPSK	1	3	25.47	25.49	25.51	
1.4	QPSK	1	5	25.32	25.26	25.47	
1.4	QPSK	3	0	25.34	25.54	25.44	
1.4	QPSK	3	1	25.33	25.34	25.36	
1.4	QPSK	3	3	25.41	25.37	25.41	
1.4	QPSK	6	0	24.45	24.48	24.41	24.7
1.4	16QAM	1	0	24.51	24.54	24.45	24.7
1.4	16QAM	1	3	24.47	24.45	24.50	
1.4	16QAM	1	5	24.47	24.56	24.55	
1.4	16QAM	3	0	24.45	24.57	24.62	
1.4	16QAM	3	1	24.59	24.58	24.59	
1.4	16QAM	3	3	24.53	24.60	24.57	
1.4	16QAM	6	0	23.38	23.38	23.38	23.7
1.4	64QAM	1	0	23.49	23.43	23.52	23.7
1.4	64QAM	1	3	23.36	23.53	23.51	
1.4	64QAM	1	5	23.50	23.50	23.41	
1.4	64QAM	3	0	23.60	23.61	23.57	
1.4	64QAM	3	1	23.53	23.57	23.53	
1.4	64QAM	3	3	23.62	23.51	23.59	
1.4	64QAM	6	0	22.42	22.40	22.30	22.7
1.4	256QAM	1	0	20.38	20.27	20.41	20.7
1.4	256QAM	1	3	20.42	20.40	20.33	
1.4	256QAM	1	5	20.33	20.53	20.41	
1.4	256QAM	3	0	20.13	20.40	20.24	
1.4	256QAM	3	1	20.36	20.29	20.37	
1.4	256QAM	3	3	20.38	20.47	20.32	
1.4	256QAM	6	0	20.23	20.49	20.35	20.7



<LTE Band 26_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	25.49	25.56	25.55	25.7
15	QPSK	1	37	25.48	25.50	25.53	
15	QPSK	1	74	25.41	25.45	25.47	
15	QPSK	36	0	24.54	24.65	24.53	24.7
15	QPSK	36	20	24.58	24.60	24.58	
15	QPSK	36	39	24.55	24.55	24.63	
15	QPSK	75	0	24.57	24.62	24.58	
15	16QAM	1	0	24.50	24.69	24.66	24.7
15	16QAM	1	37	24.60	24.68	24.65	
15	16QAM	1	74	24.67	24.66	24.70	
15	16QAM	36	0	23.48	23.50	23.50	23.7
15	16QAM	36	20	23.51	23.55	23.53	
15	16QAM	36	39	23.49	23.59	23.58	
15	16QAM	75	0	23.53	23.50	23.50	
15	64QAM	1	0	23.64	23.70	23.62	23.7
15	64QAM	1	37	23.68	23.70	23.62	
15	64QAM	1	74	23.62	23.67	23.64	
15	64QAM	36	0	22.47	22.49	22.49	22.7
15	64QAM	36	20	22.53	22.54	22.52	
15	64QAM	36	39	22.52	22.58	22.56	
15	64QAM	75	0	22.52	22.52	22.49	
15	256QAM	1	0	20.40	20.47	20.43	20.7
15	256QAM	1	37	20.42	20.55	20.48	
15	256QAM	1	74	20.50	20.60	20.58	
15	256QAM	36	0	20.33	20.47	20.42	20.7
15	256QAM	36	20	20.42	20.49	20.42	
15	256QAM	36	39	20.38	20.52	20.51	
15	256QAM	75	0	20.36	20.50	20.40	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	25.42	25.53	25.38	25.7
10	QPSK	1	25	25.32	25.50	25.49	
10	QPSK	1	49	25.33	25.41	25.33	
10	QPSK	25	0	24.47	24.57	24.39	24.7
10	QPSK	25	12	24.52	24.48	24.50	
10	QPSK	25	25	24.54	24.45	24.49	
10	QPSK	50	0	24.38	24.57	24.40	
10	16QAM	1	0	24.33	24.49	24.57	24.7
10	16QAM	1	25	24.52	24.61	24.53	
10	16QAM	1	49	24.47	24.57	24.55	
10	16QAM	25	0	23.38	23.36	23.36	23.7
10	16QAM	25	12	23.51	23.40	23.48	
10	16QAM	25	25	23.46	23.39	23.47	
10	16QAM	50	0	23.44	23.30	23.32	
10	64QAM	1	0	23.54	23.66	23.55	23.7
10	64QAM	1	25	23.50	23.63	23.42	
10	64QAM	1	49	23.43	23.48	23.52	
10	64QAM	25	0	22.39	22.49	22.35	22.7
10	64QAM	25	12	22.43	22.49	22.36	
10	64QAM	25	25	22.45	22.45	22.41	
10	64QAM	50	0	22.46	22.49	22.35	
10	256QAM	1	0	20.33	20.46	20.42	20.7
10	256QAM	1	25	20.39	20.42	20.40	
10	256QAM	1	49	20.42	20.45	20.53	
10	256QAM	25	0	20.20	20.35	20.26	20.7
10	256QAM	25	12	20.37	20.44	20.33	



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10	256QAM	25	25	20.20	20.52	20.44	Tune-up limit (dBm)
10	256QAM	50	0	20.34	20.38	20.27	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	25.43	25.44	25.35	25.7
5	QPSK	1	12	25.33	25.30	25.47	
5	QPSK	1	24	25.39	25.26	25.33	
5	QPSK	12	0	24.51	24.45	24.37	24.7
5	QPSK	12	7	24.46	24.47	24.53	
5	QPSK	12	13	24.38	24.43	24.49	
5	QPSK	25	0	24.46	24.52	24.49	
5	16QAM	1	0	24.34	24.62	24.53	24.7
5	16QAM	1	12	24.43	24.58	24.58	
5	16QAM	1	24	24.56	24.60	24.65	
5	16QAM	12	0	23.46	23.41	23.40	23.7
5	16QAM	12	7	23.49	23.39	23.41	
5	16QAM	12	13	23.40	23.54	23.52	
5	16QAM	25	0	23.46	23.36	23.47	
5	64QAM	1	0	23.49	23.54	23.43	23.7
5	64QAM	1	12	23.65	23.65	23.55	
5	64QAM	1	24	23.44	23.59	23.57	
5	64QAM	12	0	22.40	22.49	22.30	22.7
5	64QAM	12	7	22.49	22.51	22.48	
5	64QAM	12	13	22.37	22.51	22.47	
5	64QAM	25	0	22.32	22.33	22.31	
5	256QAM	1	0	20.27	20.37	20.33	20.7
5	256QAM	1	12	20.26	20.36	20.44	
5	256QAM	1	24	20.42	20.53	20.51	
5	256QAM	12	0	20.23	20.42	20.34	20.7
5	256QAM	12	7	20.34	20.31	20.23	
5	256QAM	12	13	20.25	20.41	20.39	
5	256QAM	25	0	20.36	20.45	20.31	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.32	25.40	25.42	25.7
3	QPSK	1	8	25.39	25.30	25.53	
3	QPSK	1	14	25.34	25.43	25.37	
3	QPSK	8	0	24.43	24.51	24.47	24.7
3	QPSK	8	4	24.41	24.53	24.53	
3	QPSK	8	7	24.38	24.50	24.53	
3	QPSK	15	0	24.38	24.56	24.51	
3	16QAM	1	0	24.35	24.49	24.51	24.7
3	16QAM	1	8	24.51	24.56	24.57	
3	16QAM	1	14	24.47	24.59	24.60	
3	16QAM	8	0	23.35	23.39	23.48	23.7
3	16QAM	8	4	23.47	23.50	23.49	
3	16QAM	8	7	23.46	23.51	23.43	
3	16QAM	15	0	23.34	23.36	23.39	
3	64QAM	1	0	23.60	23.58	23.43	23.7
3	64QAM	1	8	23.49	23.50	23.48	
3	64QAM	1	14	23.57	23.52	23.44	
3	64QAM	8	0	22.37	22.36	22.46	22.7
3	64QAM	8	4	22.53	22.38	22.40	
3	64QAM	8	7	22.36	22.56	22.44	
3	64QAM	15	0	22.48	22.44	22.30	
3	256QAM	1	0	20.35	20.43	20.25	20.7
3	256QAM	1	8	20.25	20.51	20.44	
3	256QAM	1	14	20.50	20.52	20.38	
3	256QAM	8	0	20.28	20.42	20.40	20.7
3	256QAM	8	4	20.26	20.33	20.30	
3	256QAM	8	7	20.23	20.45	20.34	
3	256QAM	15	0	20.33	20.35	20.22	



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Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	25.36	25.37	25.51	25.7
1.4	QPSK	1	3	25.47	25.49	25.51	
1.4	QPSK	1	5	25.32	25.26	25.47	
1.4	QPSK	3	0	25.34	25.54	25.44	
1.4	QPSK	3	1	25.33	25.34	25.36	
1.4	QPSK	3	3	25.41	25.37	25.41	
1.4	QPSK	6	0	24.45	24.48	24.41	24.7
1.4	16QAM	1	0	24.51	24.54	24.45	24.7
1.4	16QAM	1	3	24.47	24.45	24.50	
1.4	16QAM	1	5	24.47	24.56	24.55	
1.4	16QAM	3	0	24.45	24.57	24.62	
1.4	16QAM	3	1	24.59	24.58	24.59	
1.4	16QAM	3	3	24.53	24.60	24.57	
1.4	16QAM	6	0	23.38	23.38	23.38	23.7
1.4	64QAM	1	0	23.49	23.43	23.52	23.7
1.4	64QAM	1	3	23.36	23.53	23.51	
1.4	64QAM	1	5	23.50	23.50	23.41	
1.4	64QAM	3	0	23.60	23.61	23.57	
1.4	64QAM	3	1	23.53	23.57	23.53	
1.4	64QAM	3	3	23.62	23.51	23.59	
1.4	64QAM	6	0	22.42	22.40	22.30	22.7
1.4	256QAM	1	0	20.38	20.27	20.41	20.7
1.4	256QAM	1	3	20.42	20.40	20.33	
1.4	256QAM	1	5	20.33	20.53	20.41	
1.4	256QAM	3	0	20.13	20.40	20.24	
1.4	256QAM	3	1	20.36	20.29	20.37	
1.4	256QAM	3	3	20.38	20.47	20.32	
1.4	256QAM	6	0	20.23	20.49	20.35	20.7



<LTE Band 26_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.76	22.95	22.83	
15	QPSK	1	37	22.85	22.93	22.88	23.5
15	QPSK	1	74	22.79	22.85	22.81	
15	QPSK	36	0	21.76	22.01	21.85	
15	QPSK	36	20	21.89	21.93	21.97	22.5
15	QPSK	36	39	21.84	22.00	21.95	
15	QPSK	75	0	21.86	21.91	21.87	
15	16QAM	1	0	22.08	22.07	22.14	22.5
15	16QAM	1	37	22.18	22.18	22.26	
15	16QAM	1	74	22.08	22.17	22.12	
15	16QAM	36	0	20.79	20.88	20.90	21.5
15	16QAM	36	20	20.91	20.94	20.94	
15	16QAM	36	39	20.89	20.99	20.94	
15	16QAM	75	0	20.85	20.91	20.86	21.5
15	64QAM	1	0	21.06	21.05	21.08	
15	64QAM	1	37	20.94	21.12	21.08	
15	64QAM	1	74	20.94	21.07	21.03	20.5
15	64QAM	36	0	19.77	19.89	19.87	
15	64QAM	36	20	19.90	19.94	19.99	
15	64QAM	36	39	19.89	20.00	19.95	18.5
15	64QAM	75	0	19.89	19.93	19.86	
15	256QAM	1	0	17.50	17.74	17.48	
15	256QAM	1	37	17.63	17.63	17.78	18.5
15	256QAM	1	74	17.53	17.75	17.73	
15	256QAM	36	0	17.59	17.64	17.52	
15	256QAM	36	20	17.54	17.58	17.63	18.5
15	256QAM	36	39	17.62	17.74	17.64	
15	256QAM	75	0	17.52	17.67	17.53	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.66	22.93	22.74	
10	QPSK	1	25	22.85	22.81	22.73	23.5
10	QPSK	1	49	22.64	22.73	22.71	
10	QPSK	25	0	21.76	21.93	21.67	22.5
10	QPSK	25	12	21.81	21.83	21.87	
10	QPSK	25	25	21.68	22.00	21.92	
10	QPSK	50	0	21.84	21.85	21.86	22.5
10	16QAM	1	0	21.98	21.97	22.04	
10	16QAM	1	25	22.03	22.16	22.13	
10	16QAM	1	49	21.89	22.06	22.06	21.5
10	16QAM	25	0	20.61	20.78	20.79	
10	16QAM	25	12	20.73	20.78	20.85	
10	16QAM	25	25	20.73	20.94	20.87	21.5
10	16QAM	50	0	20.72	20.73	20.67	
10	64QAM	1	0	21.04	20.93	20.98	
10	64QAM	1	25	20.77	20.97	20.91	21.5
10	64QAM	1	49	20.80	20.95	20.91	
10	64QAM	25	0	19.60	19.79	19.80	
10	64QAM	25	12	19.79	19.80	19.81	20.5
10	64QAM	25	25	19.86	19.96	19.80	
10	64QAM	50	0	19.88	19.79	19.73	
10	256QAM	1	0	17.30	17.63	17.45	18.5
10	256QAM	1	25	17.49	17.58	17.78	
10	256QAM	1	49	17.42	17.56	17.59	
10	256QAM	25	0	17.42	17.61	17.45	18.5
10	256QAM	25	12	17.51	17.49	17.51	



FCC SAR TEST REPORT

Report No. : FA4O2228B

10	256QAM	25	25	17.48	17.70	17.63	Tune-up limit (dBm)
10	256QAM	50	0	17.37	17.53	17.50	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.70	22.91	22.74	23.5
5	QPSK	1	12	22.66	22.92	22.70	
5	QPSK	1	24	22.73	22.65	22.63	
5	QPSK	12	0	21.70	21.82	21.79	22.5
5	QPSK	12	7	21.72	21.92	21.91	
5	QPSK	12	13	21.66	21.94	21.83	
5	QPSK	25	0	21.76	21.85	21.68	
5	16QAM	1	0	22.07	22.03	22.06	22.5
5	16QAM	1	12	22.13	22.09	22.09	
5	16QAM	1	24	21.93	22.05	22.11	
5	16QAM	12	0	20.71	20.79	20.79	21.5
5	16QAM	12	7	20.87	20.82	20.79	
5	16QAM	12	13	20.80	20.82	20.94	
5	16QAM	25	0	20.70	20.80	20.86	
5	64QAM	1	0	20.92	20.96	20.94	21.5
5	64QAM	1	12	20.94	21.04	20.94	
5	64QAM	1	24	20.83	20.93	21.03	
5	64QAM	12	0	19.70	19.84	19.75	20.5
5	64QAM	12	7	19.77	19.85	19.96	
5	64QAM	12	13	19.74	19.90	19.88	
5	64QAM	25	0	19.76	19.75	19.68	
5	256QAM	1	0	17.47	17.74	17.40	18.5
5	256QAM	1	12	17.58	17.53	17.61	
5	256QAM	1	24	17.44	17.60	17.66	
5	256QAM	12	0	17.47	17.59	17.48	18.5
5	256QAM	12	7	17.41	17.57	17.49	
5	256QAM	12	13	17.54	17.60	17.55	
5	256QAM	25	0	17.35	17.62	17.38	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.71	22.85	22.81	23.5
3	QPSK	1	8	22.75	22.77	22.72	
3	QPSK	1	14	22.79	22.67	22.78	
3	QPSK	8	0	21.64	21.95	21.84	22.5
3	QPSK	8	4	21.89	21.75	21.80	
3	QPSK	8	7	21.82	21.97	21.95	
3	QPSK	15	0	21.78	21.74	21.81	
3	16QAM	1	0	22.08	21.99	22.08	22.5
3	16QAM	1	8	22.08	22.06	22.08	
3	16QAM	1	14	22.02	22.11	21.98	
3	16QAM	8	0	20.65	20.72	20.79	
3	16QAM	8	4	20.71	20.74	20.89	21.5
3	16QAM	8	7	20.87	20.93	20.85	
3	16QAM	15	0	20.73	20.88	20.75	
3	64QAM	1	0	21.04	20.90	21.07	
3	64QAM	1	8	20.84	20.95	21.05	21.5
3	64QAM	1	14	20.85	20.89	20.90	
3	64QAM	8	0	19.77	19.70	19.80	
3	64QAM	8	4	19.70	19.80	19.88	
3	64QAM	8	7	19.84	19.93	19.86	20.5
3	64QAM	15	0	19.79	19.78	19.86	
3	256QAM	1	0	17.37	17.70	17.46	
3	256QAM	1	8	17.50	17.52	17.67	
3	256QAM	1	14	17.38	17.71	17.60	18.5
3	256QAM	8	0	17.49	17.61	17.39	
3	256QAM	8	4	17.43	17.49	17.45	
3	256QAM	8	7	17.59	17.63	17.54	
3	256QAM	15	0	17.49	17.52	17.52	



FCC SAR TEST REPORT

Report No. : FA4O2228B

Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.59	22.77	22.78	23.5
1.4	QPSK	1	3	22.70	22.83	22.74	
1.4	QPSK	1	5	22.65	22.69	22.65	
1.4	QPSK	3	0	21.72	22.01	21.80	
1.4	QPSK	3	1	21.72	21.76	21.77	
1.4	QPSK	3	3	21.78	21.82	21.93	
1.4	QPSK	6	0	21.84	21.90	21.78	22.5
1.4	16QAM	1	0	21.97	22.01	22.02	22.5
1.4	16QAM	1	3	22.11	22.04	22.07	
1.4	16QAM	1	5	22.05	22.03	21.97	
1.4	16QAM	3	0	20.61	20.80	20.84	
1.4	16QAM	3	1	20.78	20.82	20.77	
1.4	16QAM	3	3	20.69	20.88	20.91	
1.4	16QAM	6	0	20.68	20.74	20.83	21.5
1.4	64QAM	1	0	20.94	21.02	20.92	21.5
1.4	64QAM	1	3	20.83	20.96	21.06	
1.4	64QAM	1	5	20.80	20.91	20.88	
1.4	64QAM	3	0	19.66	19.81	19.74	
1.4	64QAM	3	1	19.73	19.77	19.88	
1.4	64QAM	3	3	19.77	19.88	19.86	
1.4	64QAM	6	0	19.80	19.73	19.67	20.5
1.4	256QAM	1	0	17.39	17.63	17.44	18.5
1.4	256QAM	1	3	17.54	17.50	17.73	
1.4	256QAM	1	5	17.48	17.58	17.54	
1.4	256QAM	3	0	17.51	17.63	17.42	
1.4	256QAM	3	1	17.49	17.42	17.60	
1.4	256QAM	3	3	17.48	17.56	17.50	
1.4	256QAM	6	0	17.44	17.67	17.53	18.5



<LTE Band 26_Ant 1_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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.76	22.95	22.83	23.5
15	QPSK	1	37	22.85	22.93	22.88	
15	QPSK	1	74	22.79	22.85	22.81	
15	QPSK	36	0	21.76	22.01	21.85	22.5
15	QPSK	36	20	21.89	21.93	21.97	
15	QPSK	36	39	21.84	22.00	21.95	
15	QPSK	75	0	21.86	21.91	21.87	22.5
15	16QAM	1	0	22.08	22.07	22.14	
15	16QAM	1	37	22.18	22.18	22.26	
15	16QAM	1	74	22.08	22.17	22.12	21.5
15	16QAM	36	0	20.79	20.88	20.90	
15	16QAM	36	20	20.91	20.94	20.94	
15	16QAM	36	39	20.89	20.99	20.94	21.5
15	16QAM	75	0	20.85	20.91	20.86	
15	64QAM	1	0	21.06	21.05	21.08	
15	64QAM	1	37	20.94	21.12	21.08	20.5
15	64QAM	1	74	20.94	21.07	21.03	
15	64QAM	36	0	19.77	19.89	19.87	
15	64QAM	36	20	19.90	19.94	19.99	18.5
15	64QAM	36	39	19.89	20.00	19.95	
15	64QAM	75	0	19.89	19.93	19.86	
15	256QAM	1	0	17.44	17.59	17.46	18.5
15	256QAM	1	37	17.59	17.49	17.68	
15	256QAM	1	74	17.46	17.57	17.63	
15	256QAM	36	0	17.56	17.49	17.32	18.5
15	256QAM	36	20	17.50	17.38	17.44	
15	256QAM	36	39	17.50	17.67	17.60	
15	256QAM	75	0	17.52	17.66	17.49	23.5
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.61	22.87	22.67	23.5
10	QPSK	1	25	22.80	22.92	22.79	
10	QPSK	1	49	22.76	22.83	22.70	
10	QPSK	25	0	21.67	22.01	21.74	22.5
10	QPSK	25	12	21.76	21.77	21.89	
10	QPSK	25	25	21.67	21.95	21.79	
10	QPSK	50	0	21.67	21.80	21.67	22.5
10	16QAM	1	0	21.92	21.92	21.94	
10	16QAM	1	25	22.03	22.08	22.18	
10	16QAM	1	49	22.07	22.09	21.98	21.5
10	16QAM	25	0	20.78	20.73	20.73	
10	16QAM	25	12	20.90	20.93	20.77	
10	16QAM	25	25	20.74	20.85	20.85	21.5
10	16QAM	50	0	20.83	20.74	20.74	
10	64QAM	1	0	20.88	20.90	21.07	
10	64QAM	1	25	20.74	21.05	21.07	20.5
10	64QAM	1	49	20.81	21.07	21.01	
10	64QAM	25	0	19.72	19.84	19.67	
10	64QAM	25	12	19.88	19.82	19.99	18.5
10	64QAM	25	25	19.83	19.93	19.92	
10	64QAM	50	0	19.77	19.74	19.82	
10	256QAM	1	0	17.33	17.43	17.26	18.5
10	256QAM	1	25	17.47	17.29	17.61	
10	256QAM	1	49	17.38	17.54	17.55	
10	256QAM	25	0	17.51	17.48	17.24	18.5
10	256QAM	25	12	17.34	17.24	17.32	



FCC SAR TEST REPORT

Report No. : FA4O2228B

10	256QAM	25	25	17.39	17.47	17.51	Tune-up limit (dBm)
10	256QAM	50	0	17.46	17.52	17.35	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.73	22.80	22.74	23.5
5	QPSK	1	12	22.76	22.87	22.86	
5	QPSK	1	24	22.67	22.70	22.66	
5	QPSK	12	0	21.58	21.84	21.73	22.5
5	QPSK	12	7	21.75	21.90	21.77	
5	QPSK	12	13	21.82	21.92	21.81	
5	QPSK	25	0	21.85	21.75	21.67	
5	16QAM	1	0	21.94	21.93	21.99	22.5
5	16QAM	1	12	22.05	22.13	22.22	
5	16QAM	1	24	22.08	22.17	21.96	
5	16QAM	12	0	20.66	20.88	20.83	21.5
5	16QAM	12	7	20.72	20.80	20.88	
5	16QAM	12	13	20.75	20.94	20.93	
5	16QAM	25	0	20.67	20.82	20.84	
5	64QAM	1	0	20.90	21.00	20.88	21.5
5	64QAM	1	12	20.76	20.93	21.02	
5	64QAM	1	24	20.91	21.00	20.96	
5	64QAM	12	0	19.58	19.73	19.72	20.5
5	64QAM	12	7	19.83	19.88	19.95	
5	64QAM	12	13	19.85	19.89	19.85	
5	64QAM	25	0	19.69	19.93	19.71	
5	256QAM	1	0	17.32	17.41	17.32	18.5
5	256QAM	1	12	17.40	17.33	17.60	
5	256QAM	1	24	17.40	17.55	17.51	
5	256QAM	12	0	17.49	17.31	17.14	18.5
5	256QAM	12	7	17.37	17.28	17.37	
5	256QAM	12	13	17.39	17.67	17.52	
5	256QAM	25	0	17.32	17.53	17.41	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.63	22.94	22.81	23.5
3	QPSK	1	8	22.84	22.88	22.86	
3	QPSK	1	14	22.68	22.81	22.70	
3	QPSK	8	0	21.63	21.99	21.74	22.5
3	QPSK	8	4	21.75	21.87	21.81	
3	QPSK	8	7	21.80	21.98	21.92	
3	QPSK	15	0	21.74	21.80	21.68	
3	16QAM	1	0	21.93	21.95	22.09	22.5
3	16QAM	1	8	22.04	22.01	22.25	
3	16QAM	1	14	21.91	22.01	22.05	
3	16QAM	8	0	20.77	20.71	20.72	21.5
3	16QAM	8	4	20.87	20.92	20.88	
3	16QAM	8	7	20.77	20.93	20.91	
3	16QAM	15	0	20.81	20.79	20.85	
3	64QAM	1	0	20.88	20.86	20.97	21.5
3	64QAM	1	8	20.88	20.92	20.95	
3	64QAM	1	14	20.90	20.90	20.88	
3	64QAM	8	0	19.70	19.74	19.68	20.5
3	64QAM	8	4	19.81	19.87	19.97	
3	64QAM	8	7	19.86	19.80	19.95	
3	64QAM	15	0	19.84	19.75	19.79	
3	256QAM	1	0	17.28	17.51	17.44	18.5
3	256QAM	1	8	17.41	17.31	17.66	
3	256QAM	1	14	17.45	17.43	17.54	
3	256QAM	8	0	17.48	17.31	17.23	18.5
3	256QAM	8	4	17.39	17.35	17.27	
3	256QAM	8	7	17.39	17.62	17.56	
3	256QAM	15	0	17.50	17.50	17.34	



FCC SAR TEST REPORT

Report No. : FA4O2228B

Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.72	22.77	22.69	23.5
1.4	QPSK	1	3	22.74	22.73	22.84	
1.4	QPSK	1	5	22.75	22.73	22.66	
1.4	QPSK	3	0	21.61	21.99	21.66	
1.4	QPSK	3	1	21.88	21.88	21.84	
1.4	QPSK	3	3	21.64	21.81	21.84	
1.4	QPSK	6	0	21.80	21.80	21.71	22.5
1.4	16QAM	1	0	22.04	22.02	22.08	22.5
1.4	16QAM	1	3	22.11	22.13	22.17	
1.4	16QAM	1	5	21.94	22.02	21.95	
1.4	16QAM	3	0	20.70	20.80	20.86	
1.4	16QAM	3	1	20.80	20.74	20.76	
1.4	16QAM	3	3	20.86	20.88	20.78	
1.4	16QAM	6	0	20.75	20.73	20.79	21.5
1.4	64QAM	1	0	21.02	20.87	20.93	21.5
1.4	64QAM	1	3	20.82	21.08	20.88	
1.4	64QAM	1	5	20.77	20.97	21.03	
1.4	64QAM	3	0	19.69	19.83	19.75	
1.4	64QAM	3	1	19.85	19.84	19.94	
1.4	64QAM	3	3	19.88	19.99	19.85	
1.4	64QAM	6	0	19.82	19.89	19.79	20.5
1.4	256QAM	1	0	17.37	17.41	17.40	18.5
1.4	256QAM	1	3	17.47	17.48	17.53	
1.4	256QAM	1	5	17.37	17.46	17.56	
1.4	256QAM	3	0	17.50	17.37	17.28	
1.4	256QAM	3	1	17.43	17.28	17.29	
1.4	256QAM	3	3	17.38	17.48	17.52	
1.4	256QAM	6	0	17.49	17.49	17.31	18.5



FCC SAR TEST REPORT

Report No. : FA4O2228B

<LTE Band 30_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		25.49		25.7
10	QPSK	1	25		25.42		
10	QPSK	1	49		25.20		
10	QPSK	25	0		24.52		24.7
10	QPSK	25	12		24.50		
10	QPSK	25	25		24.47		
10	QPSK	50	0		24.45		24.7
10	16QAM	1	0		24.59		
10	16QAM	1	25		24.66		
10	16QAM	1	49		24.68		23.7
10	16QAM	25	0		23.39		
10	16QAM	25	12		23.49		
10	16QAM	25	25		23.46		23.7
10	16QAM	50	0		23.44		
10	64QAM	1	0		23.48		
10	64QAM	1	25		23.47		23.7
10	64QAM	1	49		23.61		
10	64QAM	25	0		22.38		
10	64QAM	25	12		22.46		22.7
10	64QAM	25	25		22.46		
10	64QAM	50	0		22.43		
10	256QAM	1	0		20.55		20.7
10	256QAM	1	25		20.63		
10	256QAM	1	49		20.56		
10	256QAM	25	0		20.52		20.7
10	256QAM	25	12		20.60		
10	256QAM	25	25		20.54		
10	256QAM	50	0		20.52		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	25.30	25.41	25.36	25.7
5	QPSK	1	12	25.32	25.37	25.31	
5	QPSK	1	24	25.11	25.14	25.07	
5	QPSK	12	0	24.37	24.40	24.34	24.7
5	QPSK	12	7	24.43	24.49	24.36	
5	QPSK	12	13	24.41	24.47	24.28	
5	QPSK	25	0	24.36	24.31	24.30	24.7
5	16QAM	1	0	24.48	24.48	24.47	
5	16QAM	1	12	24.62	24.65	24.58	
5	16QAM	1	24	24.67	24.56	24.59	23.7
5	16QAM	12	0	23.37	23.32	23.21	
5	16QAM	12	7	23.43	23.32	23.35	
5	16QAM	12	13	23.33	23.29	23.44	23.7
5	16QAM	25	0	23.40	23.42	23.27	
5	64QAM	1	0	23.41	23.28	23.38	
5	64QAM	1	12	23.29	23.40	23.30	23.7
5	64QAM	1	24	23.42	23.61	23.56	
5	64QAM	12	0	22.32	22.37	22.32	
5	64QAM	12	7	22.26	22.44	22.29	22.7
5	64QAM	12	13	22.32	22.29	22.30	
5	64QAM	25	0	22.30	22.33	22.26	
5	256QAM	1	0	20.35	20.43	20.46	20.7
5	256QAM	1	12	20.63	20.50	20.60	
5	256QAM	1	24	20.46	20.49	20.40	
5	256QAM	12	0	20.40	20.46	20.42	20.7
5	256QAM	12	7	20.41	20.43	20.53	
5	256QAM	12	13	20.38	20.53	20.54	
5	256QAM	25	0	20.50	20.39	20.35	

**<LTE Band 30_Ant 5_DSI 1 (WLAN ON)>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.89		23.1
10	QPSK	1	25		22.88		
10	QPSK	1	49		22.83		
10	QPSK	25	0		21.86		22.1
10	QPSK	25	12		21.84		
10	QPSK	25	25		21.82		
10	QPSK	50	0		21.79		22.1
10	16QAM	1	0		22.02		
10	16QAM	1	25		22.00		
10	16QAM	1	49		22.01		21.1
10	16QAM	25	0		20.78		
10	16QAM	25	12		20.87		
10	16QAM	25	25		20.84		21.1
10	16QAM	50	0		20.78		
10	64QAM	1	0		20.75		
10	64QAM	1	25		21.09		21.1
10	64QAM	1	49		21.07		
10	64QAM	25	0		19.76		
10	64QAM	25	12		19.85		20.1
10	64QAM	25	25		19.84		
10	64QAM	50	0		19.82		
10	256QAM	1	0		17.91		18.1
10	256QAM	1	25		18.10		
10	256QAM	1	49		17.94		
10	256QAM	25	0		17.91		18.1
10	256QAM	25	12		17.93		
10	256QAM	25	25		17.97		
10	256QAM	50	0		18.09		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.80	22.79	22.74	23.1
5	QPSK	1	12	22.67	22.80	22.36	
5	QPSK	1	24	22.69	22.72	22.45	
5	QPSK	12	0	21.78	21.66	21.49	22.1
5	QPSK	12	7	21.65	21.82	21.60	
5	QPSK	12	13	21.55	21.68	21.48	
5	QPSK	25	0	21.70	21.78	21.58	22.1
5	16QAM	1	0	21.97	21.88	21.80	
5	16QAM	1	12	21.85	21.96	21.54	
5	16QAM	1	24	21.78	21.93	21.86	21.1
5	16QAM	12	0	20.48	20.72	20.40	
5	16QAM	12	7	20.56	20.71	20.47	
5	16QAM	12	13	20.59	20.78	20.47	21.1
5	16QAM	25	0	20.74	20.75	20.51	
5	64QAM	1	0	20.49	20.63	20.40	
5	64QAM	1	12	20.89	20.90	20.75	21.1
5	64QAM	1	24	20.87	20.88	20.74	
5	64QAM	12	0	19.73	19.61	19.52	
5	64QAM	12	7	19.76	19.77	19.56	20.1
5	64QAM	12	13	19.62	19.65	19.43	
5	64QAM	25	0	19.58	19.68	19.62	
5	256QAM	1	0	17.61	17.82	17.65	18.1
5	256QAM	1	12	17.95	18.07	17.88	
5	256QAM	1	24	17.68	17.91	17.58	
5	256QAM	12	0	17.71	17.83	17.46	18.1
5	256QAM	12	7	17.67	17.82	17.54	
5	256QAM	12	13	17.63	17.88	17.65	
5	256QAM	25	0	17.97	18.02	17.72	



<LTE Band 30_Ant 5_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)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.89		23.1
10	QPSK	1	25		22.88		
10	QPSK	1	49		22.83		
10	QPSK	25	0		21.86		22.1
10	QPSK	25	12		21.84		
10	QPSK	25	25		21.82		
10	QPSK	50	0		21.79		22.1
10	16QAM	1	0		22.02		
10	16QAM	1	25		22.00		
10	16QAM	1	49		22.01		21.1
10	16QAM	25	0		20.78		
10	16QAM	25	12		20.87		
10	16QAM	25	25		20.84		21.1
10	16QAM	50	0		20.78		
10	64QAM	1	0		20.75		
10	64QAM	1	25		21.09		21.1
10	64QAM	1	49		21.07		
10	64QAM	25	0		19.76		
10	64QAM	25	12		19.85		20.1
10	64QAM	25	25		19.84		
10	64QAM	50	0		19.82		
10	256QAM	1	0		17.16		18.1
10	256QAM	1	25		17.29		
10	256QAM	1	49		17.03		
10	256QAM	25	0		17.17		18.1
10	256QAM	25	12		17.18		
10	256QAM	25	25		17.08		
10	256QAM	50	0		17.01		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.84	22.73	22.72	23.1
5	QPSK	1	12	22.81	22.81	22.69	
5	QPSK	1	24	22.66	22.51	22.63	
5	QPSK	12	0	21.69	21.76	21.71	22.1
5	QPSK	12	7	21.76	21.74	21.63	
5	QPSK	12	13	21.82	21.74	21.77	
5	QPSK	25	0	21.64	21.53	21.53	22.1
5	16QAM	1	0	21.92	21.74	21.65	
5	16QAM	1	12	21.83	21.82	21.96	
5	16QAM	1	24	21.83	21.95	21.85	21.1
5	16QAM	12	0	20.74	20.51	20.69	
5	16QAM	12	7	20.80	20.55	20.63	
5	16QAM	12	13	20.74	20.72	20.66	21.1
5	16QAM	25	0	20.75	20.57	20.54	
5	64QAM	1	0	20.63	20.50	20.46	
5	64QAM	1	12	20.92	20.86	21.01	21.1
5	64QAM	1	24	20.92	20.81	20.85	
5	64QAM	12	0	19.64	19.63	19.74	
5	64QAM	12	7	19.72	19.80	19.67	20.1
5	64QAM	12	13	19.83	19.54	19.60	
5	64QAM	25	0	19.75	19.57	19.56	
5	256QAM	1	0	17.04	17.08	16.94	18.1
5	256QAM	1	12	17.29	17.04	17.14	
5	256QAM	1	24	17.01	16.89	16.86	
5	256QAM	12	0	17.12	16.97	16.90	18.1
5	256QAM	12	7	17.17	16.90	16.90	
5	256QAM	12	13	16.99	17.05	16.98	
5	256QAM	25	0	16.85	16.99	16.79	



<LTE Band 66_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	25.39	25.44	25.20	
20	QPSK	1	49	25.36	25.36	25.10	25.7
20	QPSK	1	99	25.22	25.31	24.93	
20	QPSK	50	0	24.38	24.39	24.25	
20	QPSK	50	24	24.33	24.37	24.25	24.7
20	QPSK	50	50	24.37	24.30	24.14	
20	QPSK	100	0	24.28	24.33	24.21	
20	16QAM	1	0	24.67	24.59	24.50	24.7
20	16QAM	1	49	24.64	24.62	24.39	
20	16QAM	1	99	24.49	24.50	24.16	
20	16QAM	50	0	23.33	23.30	23.23	23.7
20	16QAM	50	24	23.39	23.29	23.21	
20	16QAM	50	50	23.34	23.29	23.14	
20	16QAM	100	0	23.35	23.23	23.15	23.7
20	64QAM	1	0	23.70	23.37	23.56	
20	64QAM	1	49	23.65	23.58	23.34	
20	64QAM	1	99	23.56	23.44	23.34	22.7
20	64QAM	50	0	22.32	22.29	22.24	
20	64QAM	50	24	22.39	22.25	22.19	
20	64QAM	50	50	22.34	22.30	22.11	20.7
20	64QAM	100	0	22.34	22.23	22.16	
20	256QAM	1	0	20.23	20.34	20.01	
20	256QAM	1	49	20.33	20.44	20.10	20.7
20	256QAM	1	99	20.46	20.52	20.24	
20	256QAM	50	0	20.22	20.35	20.09	
20	256QAM	50	24	20.30	20.37	20.05	20.7
20	256QAM	50	50	20.41	20.46	20.13	
20	256QAM	100	0	20.22	20.36	20.09	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	25.30	25.40	25.08	
15	QPSK	1	37	25.23	25.26	24.96	25.7
15	QPSK	1	74	25.03	25.25	24.78	
15	QPSK	36	0	24.29	24.25	24.11	24.7
15	QPSK	36	20	24.20	24.28	24.13	
15	QPSK	36	39	24.19	24.22	24.08	
15	QPSK	75	0	24.27	24.22	24.01	24.7
15	16QAM	1	0	24.53	24.54	24.40	
15	16QAM	1	37	24.49	24.46	24.31	
15	16QAM	1	74	24.43	24.37	24.14	23.7
15	16QAM	36	0	23.24	23.24	23.20	
15	16QAM	36	20	23.31	23.28	23.07	
15	16QAM	36	39	23.23	23.22	23.06	23.7
15	16QAM	75	0	23.30	23.05	23.14	
15	64QAM	1	0	23.64	23.24	23.43	
15	64QAM	1	37	23.45	23.53	23.21	22.7
15	64QAM	1	74	23.53	23.26	23.25	
15	64QAM	36	0	22.30	22.14	22.20	
15	64QAM	36	20	22.31	22.15	22.14	20.7
15	64QAM	36	39	22.16	22.15	22.08	
15	64QAM	75	0	22.18	22.22	22.00	
15	256QAM	1	0	20.19	20.26	19.86	20.7
15	256QAM	1	37	20.31	20.32	20.10	
15	256QAM	1	74	20.45	20.50	20.16	
15	256QAM	36	0	20.15	20.23	19.90	20.7
15	256QAM	36	20	20.16	20.32	19.89	



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15	256QAM	36	39	20.21	20.32	20.08	
15	256QAM	75	0	20.22	20.23	20.08	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	25.37	25.33	25.20	25.7
10	QPSK	1	25	25.33	25.29	25.10	
10	QPSK	1	49	25.14	25.21	24.75	
10	QPSK	25	0	24.29	24.19	24.05	24.7
10	QPSK	25	12	24.18	24.24	24.19	
10	QPSK	25	25	24.21	24.25	24.03	
10	QPSK	50	0	24.23	24.31	24.09	
10	16QAM	1	0	24.63	24.52	24.35	24.7
10	16QAM	1	25	24.61	24.44	24.35	
10	16QAM	1	49	24.42	24.41	24.04	
10	16QAM	25	0	23.16	23.14	23.11	23.7
10	16QAM	25	12	23.20	23.19	23.11	
10	16QAM	25	25	23.32	23.21	23.09	
10	16QAM	50	0	23.20	23.22	23.03	
10	64QAM	1	0	23.56	23.36	23.53	23.7
10	64QAM	1	25	23.54	23.49	23.31	
10	64QAM	1	49	23.48	23.36	23.20	
10	64QAM	25	0	22.26	22.16	22.24	22.7
10	64QAM	25	12	22.26	22.08	21.99	
10	64QAM	25	25	22.23	22.29	21.96	
10	64QAM	50	0	22.28	22.23	22.11	
10	256QAM	1	0	20.14	20.27	19.84	20.7
10	256QAM	1	25	20.27	20.42	19.90	
10	256QAM	1	49	20.36	20.45	20.16	
10	256QAM	25	0	20.16	20.16	19.92	20.7
10	256QAM	25	12	20.23	20.30	19.94	
10	256QAM	25	25	20.23	20.43	19.99	
10	256QAM	50	0	20.09	20.24	19.98	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	25.24	25.38	25.09	25.7
5	QPSK	1	12	25.26	25.18	24.91	
5	QPSK	1	24	25.12	25.24	24.77	
5	QPSK	12	0	24.34	24.25	24.25	24.7
5	QPSK	12	7	24.32	24.19	24.22	
5	QPSK	12	13	24.22	24.26	24.05	
5	QPSK	25	0	24.11	24.26	24.10	
5	16QAM	1	0	24.58	24.44	24.36	24.7
5	16QAM	1	12	24.63	24.55	24.35	
5	16QAM	1	24	24.33	24.31	24.08	
5	16QAM	12	0	23.24	23.11	23.12	23.7
5	16QAM	12	7	23.20	23.13	23.13	
5	16QAM	12	13	23.28	23.11	22.95	
5	16QAM	25	0	23.18	23.12	23.05	
5	64QAM	1	0	23.50	23.36	23.41	23.7
5	64QAM	1	12	23.48	23.53	23.18	
5	64QAM	1	24	23.43	23.24	23.23	
5	64QAM	12	0	22.31	22.25	22.19	22.7
5	64QAM	12	7	22.38	22.06	22.00	
5	64QAM	12	13	22.18	22.23	22.05	
5	64QAM	25	0	22.16	22.07	22.01	
5	256QAM	1	0	20.10	20.24	20.00	20.7
5	256QAM	1	12	20.13	20.39	20.03	
5	256QAM	1	24	20.34	20.34	20.15	
5	256QAM	12	0	20.10	20.20	19.95	20.7
5	256QAM	12	7	20.16	20.18	19.99	
5	256QAM	12	13	20.37	20.30	20.07	
5	256QAM	25	0	20.14	20.22	19.95	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	25.30	25.32	25.10	25.7
3	QPSK	1	8	25.17	25.33	25.07	
3	QPSK	1	14	25.21	25.19	24.86	
3	QPSK	8	0	24.19	24.20	24.13	24.7
3	QPSK	8	4	24.22	24.27	24.15	
3	QPSK	8	7	24.31	24.24	23.97	
3	QPSK	15	0	24.27	24.26	24.21	
3	16QAM	1	0	24.48	24.50	24.37	24.7
3	16QAM	1	8	24.61	24.44	24.35	
3	16QAM	1	14	24.49	24.49	23.97	
3	16QAM	8	0	23.26	23.26	23.12	23.7
3	16QAM	8	4	23.24	23.21	23.15	
3	16QAM	8	7	23.20	23.20	22.94	
3	16QAM	15	0	23.23	23.12	23.04	
3	64QAM	1	0	23.56	23.17	23.40	23.7
3	64QAM	1	8	23.55	23.44	23.20	
3	64QAM	1	14	23.50	23.40	23.32	
3	64QAM	8	0	22.15	22.11	22.23	22.7
3	64QAM	8	4	22.20	22.12	22.10	
3	64QAM	8	7	22.27	22.16	22.02	
3	64QAM	15	0	22.31	22.03	22.07	
3	256QAM	1	0	20.10	20.33	19.85	20.7
3	256QAM	1	8	20.23	20.32	20.08	
3	256QAM	1	14	20.31	20.42	20.09	
3	256QAM	8	0	20.17	20.23	20.00	20.7
3	256QAM	8	4	20.12	20.25	20.02	
3	256QAM	8	7	20.39	20.42	20.10	
3	256QAM	15	0	20.03	20.29	19.95	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	25.36	25.33	25.20	25.7
1.4	QPSK	1	3	25.17	25.35	25.07	
1.4	QPSK	1	5	25.22	25.16	24.93	
1.4	QPSK	3	0	25.19	25.27	25.08	
1.4	QPSK	3	1	25.26	25.16	25.10	
1.4	QPSK	3	3	25.07	25.22	24.76	
1.4	QPSK	6	0	24.31	24.35	24.25	24.7
1.4	16QAM	1	0	24.21	24.32	24.25	24.7
1.4	16QAM	1	3	24.23	24.27	24.09	
1.4	16QAM	1	5	24.15	24.23	24.11	
1.4	16QAM	3	0	24.57	24.44	24.43	
1.4	16QAM	3	1	24.49	24.47	24.31	
1.4	16QAM	3	3	24.32	24.47	23.99	23.7
1.4	16QAM	6	0	23.25	23.18	23.05	
1.4	64QAM	1	0	23.37	23.10	23.04	23.7
1.4	64QAM	1	3	23.31	23.15	22.98	
1.4	64QAM	1	5	23.31	23.03	23.13	
1.4	64QAM	3	0	23.54	23.24	23.55	
1.4	64QAM	3	1	23.45	23.43	23.34	
1.4	64QAM	3	3	23.45	23.35	23.22	22.7
1.4	64QAM	6	0	22.12	22.20	22.13	
1.4	256QAM	1	0	20.04	20.27	19.94	20.7
1.4	256QAM	1	3	20.19	20.43	19.94	
1.4	256QAM	1	5	20.42	20.33	20.15	
1.4	256QAM	3	0	20.09	20.21	19.95	
1.4	256QAM	3	1	20.19	20.19	19.86	
1.4	256QAM	3	3	20.28	20.40	19.94	20.7
1.4	256QAM	6	0	20.10	20.23	19.89	



<LTE Band 66_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.40	22.31	22.15	22.6
20	QPSK	1	49	22.29	22.22	22.08	
20	QPSK	1	99	22.23	22.18	21.95	
20	QPSK	50	0	21.41	21.30	21.25	21.6
20	QPSK	50	24	21.38	21.31	21.22	
20	QPSK	50	50	21.35	21.31	21.15	
20	QPSK	100	0	21.38	21.29	21.20	21.6
20	16QAM	1	0	21.50	21.28	21.35	
20	16QAM	1	49	21.39	21.31	21.39	
20	16QAM	1	99	21.25	21.49	21.20	20.6
20	16QAM	50	0	20.33	20.33	20.27	
20	16QAM	50	24	20.39	20.30	20.21	
20	16QAM	50	50	20.35	20.33	20.14	20.6
20	16QAM	100	0	20.38	20.27	20.21	
20	64QAM	1	0	20.42	20.50	20.41	
20	64QAM	1	49	20.43	20.46	20.32	19.6
20	64QAM	1	99	20.43	20.41	20.06	
20	64QAM	50	0	19.32	19.34	19.24	
20	64QAM	50	24	19.40	19.29	19.22	17.6
20	64QAM	50	50	19.34	19.30	19.16	
20	64QAM	100	0	19.38	19.28	19.19	
20	256QAM	1	0	17.53	17.60	17.54	17.6
20	256QAM	1	49	17.53	17.53	17.58	
20	256QAM	1	99	17.54	17.55	17.50	
20	256QAM	50	0	17.48	17.58	17.49	17.6
20	256QAM	50	24	17.46	17.57	17.54	
20	256QAM	50	50	17.58	17.52	17.59	
20	256QAM	100	0	17.34	17.60	17.59	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.27	22.23	22.01	22.6
15	QPSK	1	37	22.23	22.14	21.95	
15	QPSK	1	74	22.18	22.06	21.87	
15	QPSK	36	0	21.25	21.19	21.14	21.6
15	QPSK	36	20	21.34	21.18	21.15	
15	QPSK	36	39	21.25	21.22	21.06	
15	QPSK	75	0	21.25	21.19	21.09	21.6
15	16QAM	1	0	21.43	21.19	21.30	
15	16QAM	1	37	21.26	21.19	21.31	
15	16QAM	1	74	21.15	21.35	21.08	20.6
15	16QAM	36	0	20.20	20.19	20.14	
15	16QAM	36	20	20.34	20.20	20.07	
15	16QAM	36	39	20.22	20.22	20.05	20.6
15	16QAM	75	0	20.34	20.21	20.07	
15	64QAM	1	0	20.32	20.43	20.27	
15	64QAM	1	37	20.38	20.34	20.22	19.6
15	64QAM	1	74	20.34	20.33	19.99	
15	64QAM	36	0	19.24	19.27	19.12	
15	64QAM	36	20	19.30	19.21	19.15	17.6
15	64QAM	36	39	19.22	19.23	19.11	
15	64QAM	75	0	19.28	19.22	19.14	
15	256QAM	1	0	17.56	17.55	17.55	17.6
15	256QAM	1	37	17.48	17.59	17.57	
15	256QAM	1	74	17.54	17.50	17.60	
15	256QAM	36	0	17.36	17.51	17.47	17.6
15	256QAM	36	20	17.32	17.48	17.53	



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15	256QAM	36	39	17.54	17.51	17.54	
15	256QAM	75	0	17.23	17.50	17.55	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.36	22.21	22.10	22.6
10	QPSK	1	25	22.18	22.14	21.97	
10	QPSK	1	49	22.09	22.04	21.81	
10	QPSK	25	0	21.25	21.22	21.20	21.6
10	QPSK	25	12	21.30	21.23	21.18	
10	QPSK	25	25	21.24	21.22	21.10	
10	QPSK	50	0	21.25	21.15	21.10	
10	16QAM	1	0	21.39	21.17	21.24	
10	16QAM	1	25	21.35	21.23	21.29	21.6
10	16QAM	1	49	21.11	21.37	21.14	
10	16QAM	25	0	20.22	20.23	20.15	20.6
10	16QAM	25	12	20.32	20.24	20.07	
10	16QAM	25	25	20.22	20.24	20.01	
10	16QAM	50	0	20.30	20.18	20.12	
10	64QAM	1	0	20.35	20.37	20.29	
10	64QAM	1	25	20.31	20.39	20.25	20.6
10	64QAM	1	49	20.32	20.30	20.02	
10	64QAM	25	0	19.21	19.26	19.15	
10	64QAM	25	12	19.33	19.17	19.14	19.6
10	64QAM	25	25	19.25	19.22	19.11	
10	64QAM	50	0	19.33	19.18	19.06	
10	256QAM	1	0	17.51	17.49	17.58	17.6
10	256QAM	1	25	17.40	17.55	17.52	
10	256QAM	1	49	17.51	17.48	17.59	
10	256QAM	25	0	17.42	17.49	17.47	17.6
10	256QAM	25	12	17.35	17.45	17.55	
10	256QAM	25	25	17.60	17.54	17.58	
10	256QAM	50	0	17.20	17.53	17.53	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.33	22.21	22.02	22.6
5	QPSK	1	12	22.25	22.15	22.02	
5	QPSK	1	24	22.16	22.07	21.90	
5	QPSK	12	0	21.30	21.20	21.21	21.6
5	QPSK	12	7	21.37	21.19	21.16	
5	QPSK	12	13	21.26	21.18	21.10	
5	QPSK	25	0	21.31	21.24	21.07	
5	16QAM	1	0	21.45	21.24	21.31	21.6
5	16QAM	1	12	21.27	21.22	21.33	
5	16QAM	1	24	21.19	21.42	21.09	
5	16QAM	12	0	20.19	20.24	20.19	20.6
5	16QAM	12	7	20.33	20.22	20.10	
5	16QAM	12	13	20.30	20.29	20.04	
5	16QAM	25	0	20.29	20.21	20.13	
5	64QAM	1	0	20.38	20.42	20.34	20.6
5	64QAM	1	12	20.30	20.36	20.26	
5	64QAM	1	24	20.29	20.30	19.99	
5	64QAM	12	0	19.18	19.27	19.18	19.6
5	64QAM	12	7	19.33	19.24	19.13	
5	64QAM	12	13	19.22	19.19	19.08	
5	64QAM	25	0	19.31	19.20	19.11	
5	256QAM	1	0	17.58	17.46	17.57	17.6
5	256QAM	1	12	17.34	17.55	17.54	
5	256QAM	1	24	17.59	17.48	17.57	
5	256QAM	12	0	17.40	17.49	17.52	17.6
5	256QAM	12	7	17.41	17.51	17.55	
5	256QAM	12	13	17.52	17.55	17.55	
5	256QAM	25	0	17.23	17.53	17.56	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.29	22.18	22.01	22.6
3	QPSK	1	8	22.15	22.18	22.02	
3	QPSK	1	14	22.13	22.13	21.90	
3	QPSK	8	0	21.21	21.19	21.13	21.6
3	QPSK	8	4	21.28	21.18	21.13	
3	QPSK	8	7	21.30	21.26	21.01	
3	QPSK	15	0	21.25	21.25	21.11	
3	16QAM	1	0	21.46	21.18	21.25	21.6
3	16QAM	1	8	21.29	21.21	21.32	
3	16QAM	1	14	21.11	21.40	21.10	
3	16QAM	8	0	20.24	20.27	20.17	20.6
3	16QAM	8	4	20.29	20.23	20.15	
3	16QAM	8	7	20.25	20.24	20.01	
3	16QAM	15	0	20.25	20.13	20.11	
3	64QAM	1	0	20.31	20.36	20.36	20.6
3	64QAM	1	8	20.35	20.38	20.21	
3	64QAM	1	14	20.39	20.32	19.94	
3	64QAM	8	0	19.25	19.20	19.12	19.6
3	64QAM	8	4	19.26	19.16	19.13	
3	64QAM	8	7	19.23	19.22	19.02	
3	64QAM	15	0	19.28	19.15	19.07	
3	256QAM	1	0	17.43	17.55	17.59	17.6
3	256QAM	1	8	17.48	17.53	17.54	
3	256QAM	1	14	17.43	17.43	17.51	
3	256QAM	8	0	17.39	17.50	17.48	17.6
3	256QAM	8	4	17.32	17.43	17.50	
3	256QAM	8	7	17.54	17.53	17.42	
3	256QAM	15	0	17.20	17.46	17.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.27	22.22	22.06	22.6
1.4	QPSK	1	3	22.15	22.18	21.99	
1.4	QPSK	1	5	22.17	22.10	21.85	
1.4	QPSK	3	0	21.27	21.23	21.16	
1.4	QPSK	3	1	21.28	21.26	21.18	
1.4	QPSK	3	3	21.26	21.18	21.07	
1.4	QPSK	6	0	21.33	21.15	21.06	21.6
1.4	16QAM	1	0	21.43	21.15	21.28	21.6
1.4	16QAM	1	3	21.25	21.21	21.35	
1.4	16QAM	1	5	21.17	21.44	21.09	
1.4	16QAM	3	0	20.23	20.24	20.14	
1.4	16QAM	3	1	20.31	20.19	20.10	
1.4	16QAM	3	3	20.26	20.22	20.03	20.6
1.4	16QAM	6	0	20.29	20.19	20.15	
1.4	64QAM	1	0	20.34	20.37	20.34	20.6
1.4	64QAM	1	3	20.34	20.38	20.24	
1.4	64QAM	1	5	20.36	20.31	19.96	
1.4	64QAM	3	0	19.22	19.27	19.15	
1.4	64QAM	3	1	19.26	19.21	19.16	
1.4	64QAM	3	3	19.23	19.24	19.12	
1.4	64QAM	6	0	19.33	19.23	19.13	19.6
1.4	256QAM	1	0	17.59	17.48	17.56	17.6
1.4	256QAM	1	3	17.49	17.50	17.54	
1.4	256QAM	1	5	17.48	17.41	17.58	
1.4	256QAM	3	0	17.34	17.54	17.50	
1.4	256QAM	3	1	17.38	17.43	17.55	
1.4	256QAM	3	3	17.45	17.48	17.56	
1.4	256QAM	6	0	17.28	17.54	17.50	17.6



<LTE Band 66_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.53	20.24	20.11	20.6
20	QPSK	1	49	20.22	20.18	20.02	
20	QPSK	1	99	20.20	20.11	19.85	
20	QPSK	50	0	19.32	19.22	19.13	19.6
20	QPSK	50	24	19.31	19.20	19.09	
20	QPSK	50	50	19.27	19.18	19.02	
20	QPSK	100	0	19.31	19.17	19.09	
20	16QAM	1	0	19.59	19.56	19.33	19.6
20	16QAM	1	49	19.59	19.53	19.29	
20	16QAM	1	99	19.50	19.37	19.13	
20	16QAM	50	0	18.29	18.23	18.15	18.6
20	16QAM	50	24	18.34	18.20	18.10	
20	16QAM	50	50	18.28	18.21	18.06	
20	16QAM	100	0	18.32	18.19	18.11	
20	64QAM	1	0	18.51	18.42	18.26	18.6
20	64QAM	1	49	18.48	18.42	18.13	
20	64QAM	1	99	18.38	18.29	18.01	
20	64QAM	50	0	17.27	17.20	17.14	17.6
20	64QAM	50	24	17.33	17.19	17.10	
20	64QAM	50	50	17.29	17.21	17.04	
20	64QAM	100	0	17.31	17.15	17.12	
20	256QAM	1	0	15.15	15.00	14.80	15.6
20	256QAM	1	49	15.03	15.05	14.73	
20	256QAM	1	99	15.01	14.94	14.90	
20	256QAM	50	0	15.06	14.97	14.79	15.6
20	256QAM	50	24	15.07	15.07	14.76	
20	256QAM	50	50	15.16	14.89	14.94	
20	256QAM	100	0	15.18	14.90	14.78	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.36	20.18	20.07	20.6
15	QPSK	1	37	20.06	19.99	19.84	
15	QPSK	1	74	20.09	19.92	19.76	
15	QPSK	36	0	19.30	19.08	19.10	19.6
15	QPSK	36	20	19.23	19.05	18.91	
15	QPSK	36	39	19.09	19.09	18.96	
15	QPSK	75	0	19.11	19.08	18.94	
15	16QAM	1	0	19.59	19.43	19.20	19.6
15	16QAM	1	37	19.47	19.39	19.17	
15	16QAM	1	74	19.44	19.26	19.08	
15	16QAM	36	0	18.11	18.12	18.09	18.6
15	16QAM	36	20	18.25	18.03	17.98	
15	16QAM	36	39	18.15	18.07	17.97	
15	16QAM	75	0	18.30	18.09	17.98	
15	64QAM	1	0	18.34	18.39	18.06	18.6
15	64QAM	1	37	18.41	18.26	18.08	
15	64QAM	1	74	18.35	18.29	17.91	
15	64QAM	36	0	17.19	17.17	16.97	17.6
15	64QAM	36	20	17.22	17.02	16.94	
15	64QAM	36	39	17.16	17.14	17.02	
15	64QAM	75	0	17.28	16.95	17.07	
15	256QAM	1	0	15.43	15.28	15.18	15.6
15	256QAM	1	37	15.36	15.35	15.11	
15	256QAM	1	74	15.33	15.27	15.18	
15	256QAM	36	0	15.46	15.28	15.08	15.6
15	256QAM	36	20	15.29	15.30	15.16	



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15	256QAM	36	39	15.55	15.23	15.15	
15	256QAM	75	0	15.53	15.13	15.05	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.47	20.13	20.00	20.6
10	QPSK	1	25	20.14	20.10	19.93	
10	QPSK	1	49	20.18	19.96	19.70	
10	QPSK	25	0	19.31	19.08	19.05	19.6
10	QPSK	25	12	19.22	19.09	19.05	
10	QPSK	25	25	19.21	19.09	18.87	
10	QPSK	50	0	19.13	19.12	18.93	
10	16QAM	1	0	19.54	19.53	19.13	19.6
10	16QAM	1	25	19.54	19.40	19.18	
10	16QAM	1	49	19.48	19.27	18.93	
10	16QAM	25	0	18.20	18.14	18.01	18.6
10	16QAM	25	12	18.14	18.19	17.91	
10	16QAM	25	25	18.10	18.14	18.02	
10	16QAM	50	0	18.32	18.09	18.07	
10	64QAM	1	0	18.35	18.24	18.08	18.6
10	64QAM	1	25	18.42	18.42	17.96	
10	64QAM	1	49	18.23	18.11	17.85	
10	64QAM	25	0	17.23	17.16	16.97	17.6
10	64QAM	25	12	17.30	16.99	16.94	
10	64QAM	25	25	17.16	17.17	16.99	
10	64QAM	50	0	17.24	17.10	16.98	
10	256QAM	1	0	15.52	15.27	15.20	15.6
10	256QAM	1	25	15.27	15.42	15.06	
10	256QAM	1	49	15.22	15.30	15.28	
10	256QAM	25	0	15.27	15.23	15.13	15.6
10	256QAM	25	12	15.27	15.32	15.12	
10	256QAM	25	25	15.44	15.11	15.14	
10	256QAM	50	0	15.47	15.22	15.02	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.37	20.24	20.02	20.6
5	QPSK	1	12	20.14	19.98	19.89	
5	QPSK	1	24	20.12	20.04	19.66	
5	QPSK	12	0	19.30	19.02	19.00	19.6
5	QPSK	12	7	19.14	19.15	18.89	
5	QPSK	12	13	19.21	19.05	19.00	
5	QPSK	25	0	19.14	19.16	18.94	
5	16QAM	1	0	19.49	19.43	19.15	19.6
5	16QAM	1	12	19.51	19.35	19.09	
5	16QAM	1	24	19.42	19.28	18.95	
5	16QAM	12	0	18.19	18.22	18.04	18.6
5	16QAM	12	7	18.26	18.03	18.03	
5	16QAM	12	13	18.23	18.21	18.04	
5	16QAM	25	0	18.24	18.17	18.11	
5	64QAM	1	0	18.37	18.30	18.24	18.6
5	64QAM	1	12	18.48	18.34	18.00	
5	64QAM	1	24	18.33	18.29	17.99	
5	64QAM	12	0	17.13	17.01	17.09	17.6
5	64QAM	12	7	17.25	17.17	16.98	
5	64QAM	12	13	17.17	17.02	16.92	
5	64QAM	25	0	17.25	16.98	17.10	
5	256QAM	1	0	15.48	15.24	15.17	15.6
5	256QAM	1	12	15.42	15.35	15.06	
5	256QAM	1	24	15.22	15.26	15.29	
5	256QAM	12	0	15.39	15.30	15.04	15.6
5	256QAM	12	7	15.45	15.28	15.09	
5	256QAM	12	13	15.44	15.16	15.31	
5	256QAM	25	0	15.47	15.14	14.98	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.38	20.17	20.10	20.6
3	QPSK	1	8	20.05	20.08	19.95	
3	QPSK	1	14	20.20	20.04	19.80	
3	QPSK	8	0	19.21	19.13	18.95	19.6
3	QPSK	8	4	19.12	19.09	18.95	
3	QPSK	8	7	19.19	19.18	18.91	
3	QPSK	15	0	19.22	19.09	18.99	
3	16QAM	1	0	19.46	19.38	19.33	19.6
3	16QAM	1	8	19.54	19.40	19.26	
3	16QAM	1	14	19.37	19.18	19.03	
3	16QAM	8	0	18.15	18.08	18.14	18.6
3	16QAM	8	4	18.26	18.18	17.98	
3	16QAM	8	7	18.25	18.04	17.89	
3	16QAM	15	0	18.23	18.04	18.04	
3	64QAM	1	0	18.50	18.42	18.06	18.6
3	64QAM	1	8	18.43	18.42	18.00	
3	64QAM	1	14	18.29	18.15	17.88	
3	64QAM	8	0	17.09	17.02	17.03	17.6
3	64QAM	8	4	17.17	17.13	17.05	
3	64QAM	8	7	17.24	17.11	16.96	
3	64QAM	15	0	17.21	17.07	17.01	
3	256QAM	1	0	15.55	15.35	15.07	15.6
3	256QAM	1	8	15.28	15.43	14.99	
3	256QAM	1	14	15.40	15.32	15.15	
3	256QAM	8	0	15.33	15.37	15.11	15.6
3	256QAM	8	4	15.45	15.27	15.04	
3	256QAM	8	7	15.46	15.28	15.23	
3	256QAM	15	0	15.42	15.26	15.11	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.46	20.11	20.09	20.6
1.4	QPSK	1	3	20.22	20.06	19.97	
1.4	QPSK	1	5	20.05	20.10	19.67	
1.4	QPSK	3	0	19.21	19.06	19.13	
1.4	QPSK	3	1	19.13	19.17	18.99	
1.4	QPSK	3	3	19.22	19.14	18.82	
1.4	QPSK	6	0	19.28	19.00	19.03	19.6
1.4	16QAM	1	0	19.59	19.37	19.30	19.6
1.4	16QAM	1	3	19.44	19.41	19.13	
1.4	16QAM	1	5	19.38	19.23	19.01	
1.4	16QAM	3	0	18.12	18.21	18.10	
1.4	16QAM	3	1	18.34	18.05	18.01	
1.4	16QAM	3	3	18.10	18.09	17.86	18.6
1.4	16QAM	6	0	18.27	18.03	17.93	
1.4	64QAM	1	0	18.43	18.42	18.13	18.6
1.4	64QAM	1	3	18.33	18.31	18.06	
1.4	64QAM	1	5	18.35	18.14	17.94	
1.4	64QAM	3	0	17.15	17.13	16.97	
1.4	64QAM	3	1	17.28	17.17	16.99	
1.4	64QAM	3	3	17.10	17.16	16.94	17.6
1.4	64QAM	6	0	17.12	17.14	17.05	
1.4	256QAM	1	0	15.51	15.32	15.10	15.6
1.4	256QAM	1	3	15.39	15.32	15.02	
1.4	256QAM	1	5	15.28	15.24	15.10	
1.4	256QAM	3	0	15.28	15.33	15.15	
1.4	256QAM	3	1	15.35	15.44	14.98	
1.4	256QAM	3	3	15.44	15.29	15.22	15.6
1.4	256QAM	6	0	15.47	15.15	15.10	



<LTE Band 66_Ant 1_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)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.53	20.24	20.11	20.6
20	QPSK	1	49	20.22	20.18	20.02	
20	QPSK	1	99	20.20	20.11	19.85	
20	QPSK	50	0	19.32	19.22	19.13	19.6
20	QPSK	50	24	19.31	19.20	19.09	
20	QPSK	50	50	19.27	19.18	19.02	
20	QPSK	100	0	19.31	19.17	19.09	
20	16QAM	1	0	19.59	19.56	19.33	19.6
20	16QAM	1	49	19.59	19.53	19.29	
20	16QAM	1	99	19.50	19.37	19.13	
20	16QAM	50	0	18.29	18.23	18.15	18.6
20	16QAM	50	24	18.34	18.20	18.10	
20	16QAM	50	50	18.28	18.21	18.06	
20	16QAM	100	0	18.32	18.19	18.11	
20	64QAM	1	0	18.51	18.42	18.26	18.6
20	64QAM	1	49	18.48	18.42	18.13	
20	64QAM	1	99	18.38	18.29	18.01	
20	64QAM	50	0	17.27	17.20	17.14	17.6
20	64QAM	50	24	17.33	17.19	17.10	
20	64QAM	50	50	17.29	17.21	17.04	
20	64QAM	100	0	17.31	17.15	17.12	
20	256QAM	1	0	15.12	14.84	14.64	15.6
20	256QAM	1	49	15.03	14.88	14.62	
20	256QAM	1	99	14.88	14.76	14.76	
20	256QAM	50	0	15.03	14.77	14.77	15.6
20	256QAM	50	24	14.91	15.05	14.73	
20	256QAM	50	50	15.16	14.78	14.85	
20	256QAM	100	0	15.09	14.80	14.67	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.52	20.08	20.02	20.6
15	QPSK	1	37	20.04	20.07	20.00	
15	QPSK	1	74	20.19	20.09	19.78	
15	QPSK	36	0	19.26	19.20	18.99	19.6
15	QPSK	36	20	19.11	19.14	19.08	
15	QPSK	36	39	19.15	19.09	18.89	
15	QPSK	75	0	19.25	18.99	18.93	
15	16QAM	1	0	19.40	19.42	19.29	19.6
15	16QAM	1	37	19.57	19.41	19.18	
15	16QAM	1	74	19.38	19.29	19.11	
15	16QAM	36	0	18.14	18.20	18.00	18.6
15	16QAM	36	20	18.23	18.16	17.97	
15	16QAM	36	39	18.24	18.14	18.04	
15	16QAM	75	0	18.32	18.11	18.10	
15	64QAM	1	0	18.43	18.29	18.25	18.6
15	64QAM	1	37	18.44	18.34	18.04	
15	64QAM	1	74	18.21	18.26	18.01	
15	64QAM	36	0	17.27	17.10	17.10	17.6
15	64QAM	36	20	17.27	17.10	16.93	
15	64QAM	36	39	17.21	17.01	17.04	
15	64QAM	75	0	17.31	16.95	17.03	
15	256QAM	1	0	15.01	14.81	14.55	15.6
15	256QAM	1	37	14.95	14.69	14.47	
15	256QAM	1	74	14.76	14.62	14.73	
15	256QAM	36	0	15.02	14.75	14.75	15.6
15	256QAM	36	20	14.89	15.05	14.53	



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15	256QAM	36	39	14.98	14.72	14.67	
15	256QAM	75	0	15.08	14.63	14.57	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.45	20.11	20.10	20.6
10	QPSK	1	25	20.22	20.08	19.91	
10	QPSK	1	49	20.16	19.99	19.84	
10	QPSK	25	0	19.12	19.20	18.95	19.6
10	QPSK	25	12	19.19	19.05	19.06	
10	QPSK	25	25	19.26	19.16	18.93	
10	QPSK	50	0	19.18	19.04	19.09	
10	16QAM	1	0	19.48	19.36	19.32	19.6
10	16QAM	1	25	19.58	19.49	19.16	
10	16QAM	1	49	19.39	19.20	19.13	
10	16QAM	25	0	18.10	18.09	18.11	18.6
10	16QAM	25	12	18.20	18.09	17.90	
10	16QAM	25	25	18.08	18.03	18.06	
10	16QAM	50	0	18.24	18.12	18.00	
10	64QAM	1	0	18.46	18.37	18.19	18.6
10	64QAM	1	25	18.42	18.29	18.01	
10	64QAM	1	49	18.32	18.13	17.81	
10	64QAM	25	0	17.07	17.16	16.97	17.6
10	64QAM	25	12	17.26	17.15	16.96	
10	64QAM	25	25	17.10	17.15	17.01	
10	64QAM	50	0	17.11	17.14	17.09	
10	256QAM	1	0	14.92	14.84	14.45	15.6
10	256QAM	1	25	14.93	14.77	14.56	
10	256QAM	1	49	14.71	14.63	14.65	
10	256QAM	25	0	15.00	14.63	14.76	15.6
10	256QAM	25	12	14.74	14.92	14.73	
10	256QAM	25	25	15.16	14.59	14.65	
10	256QAM	50	0	15.05	14.70	14.61	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.44	20.06	20.11	20.6
5	QPSK	1	12	20.16	20.12	19.84	
5	QPSK	1	24	20.11	19.95	19.68	
5	QPSK	12	0	19.32	19.17	19.00	19.6
5	QPSK	12	7	19.27	19.11	18.91	
5	QPSK	12	13	19.10	19.11	18.84	
5	QPSK	25	0	19.22	19.06	19.02	
5	16QAM	1	0	19.44	19.55	19.19	19.6
5	16QAM	1	12	19.57	19.39	19.10	
5	16QAM	1	24	19.40	19.24	19.13	
5	16QAM	12	0	18.15	18.22	17.95	18.6
5	16QAM	12	7	18.30	18.01	18.08	
5	16QAM	12	13	18.22	18.19	18.04	
5	16QAM	25	0	18.15	18.19	18.02	
5	64QAM	1	0	18.46	18.30	18.21	18.6
5	64QAM	1	12	18.30	18.33	18.05	
5	64QAM	1	24	18.36	18.24	17.88	
5	64QAM	12	0	17.18	17.05	17.02	17.6
5	64QAM	12	7	17.13	17.17	16.94	
5	64QAM	12	13	17.18	17.17	16.91	
5	64QAM	25	0	17.19	17.02	17.11	
5	256QAM	1	0	14.95	14.75	14.45	15.6
5	256QAM	1	12	14.97	14.83	14.50	
5	256QAM	1	24	14.87	14.59	14.56	
5	256QAM	12	0	14.96	14.58	14.75	15.6
5	256QAM	12	7	14.74	14.96	14.67	
5	256QAM	12	13	15.03	14.66	14.78	
5	256QAM	25	0	15.03	14.66	14.66	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.51	20.08	19.95	20.6
3	QPSK	1	8	20.07	19.98	19.94	
3	QPSK	1	14	20.20	19.93	19.70	
3	QPSK	8	0	19.15	19.11	19.11	19.6
3	QPSK	8	4	19.31	19.18	19.03	
3	QPSK	8	7	19.22	19.17	18.88	
3	QPSK	15	0	19.30	19.03	18.97	
3	16QAM	1	0	19.46	19.52	19.28	19.6
3	16QAM	1	8	19.52	19.38	19.28	
3	16QAM	1	14	19.37	19.25	18.98	
3	16QAM	8	0	18.12	18.13	17.96	18.6
3	16QAM	8	4	18.23	18.13	17.93	
3	16QAM	8	7	18.21	18.01	18.05	
3	16QAM	15	0	18.29	18.11	18.08	
3	64QAM	1	0	18.32	18.37	18.23	18.6
3	64QAM	1	8	18.34	18.37	18.02	
3	64QAM	1	14	18.34	18.11	17.88	
3	64QAM	8	0	17.21	17.06	17.06	17.6
3	64QAM	8	4	17.23	17.07	16.91	
3	64QAM	8	7	17.21	17.01	16.86	
3	64QAM	15	0	17.20	17.06	17.01	
3	256QAM	1	0	15.04	14.67	14.49	15.6
3	256QAM	1	8	14.93	14.81	14.54	
3	256QAM	1	14	14.85	14.72	14.58	
3	256QAM	8	0	14.93	14.71	14.58	15.6
3	256QAM	8	4	14.76	15.04	14.69	
3	256QAM	8	7	15.13	14.77	14.81	
3	256QAM	15	0	15.00	14.73	14.50	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.49	20.16	19.93	20.6
1.4	QPSK	1	3	20.19	20.05	20.02	
1.4	QPSK	1	5	20.20	20.08	19.80	
1.4	QPSK	3	0	19.29	19.19	18.96	
1.4	QPSK	3	1	19.22	19.20	19.03	
1.4	QPSK	3	3	19.21	19.07	18.97	
1.4	QPSK	6	0	19.12	18.98	19.08	19.6
1.4	16QAM	1	0	19.43	19.37	19.19	19.6
1.4	16QAM	1	3	19.58	19.50	19.18	
1.4	16QAM	1	5	19.49	19.24	19.06	
1.4	16QAM	3	0	18.19	18.17	18.13	
1.4	16QAM	3	1	18.26	18.14	18.08	
1.4	16QAM	3	3	18.10	18.07	17.98	18.6
1.4	16QAM	6	0	18.14	18.13	17.95	
1.4	64QAM	1	0	18.40	18.38	18.07	18.6
1.4	64QAM	1	3	18.44	18.40	18.01	
1.4	64QAM	1	5	18.28	18.18	17.89	
1.4	64QAM	3	0	17.09	17.11	17.09	
1.4	64QAM	3	1	17.26	17.07	17.09	
1.4	64QAM	3	3	17.19	17.20	17.00	17.6
1.4	64QAM	6	0	17.31	17.00	17.08	
1.4	256QAM	1	0	15.05	14.70	14.62	15.6
1.4	256QAM	1	3	15.02	14.70	14.58	
1.4	256QAM	1	5	14.88	14.72	14.61	
1.4	256QAM	3	0	15.03	14.61	14.69	
1.4	256QAM	3	1	14.80	14.98	14.55	
1.4	256QAM	3	3	15.09	14.62	14.65	15.6
1.4	256QAM	6	0	15.02	14.70	14.53	



<LTE Band 71_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.65	24.92	24.79	
20	QPSK	1	49	24.62	24.86	24.83	25
20	QPSK	1	99	24.58	24.84	24.77	
20	QPSK	50	0	23.66	23.91	23.88	
20	QPSK	50	24	23.72	23.89	23.88	24
20	QPSK	50	50	23.66	23.87	23.89	
20	QPSK	100	0	23.76	23.86	23.85	
20	16QAM	1	0	23.90	24.00	23.85	24
20	16QAM	1	49	23.97	23.95	23.97	
20	16QAM	1	99	23.90	23.88	23.85	
20	16QAM	50	0	22.71	22.87	22.87	23
20	16QAM	50	24	22.74	22.85	22.87	
20	16QAM	50	50	22.64	22.87	22.88	
20	16QAM	100	0	22.74	22.85	22.87	23
20	64QAM	1	0	22.82	22.95	22.96	
20	64QAM	1	49	22.67	22.93	22.98	
20	64QAM	1	99	22.74	22.81	22.82	22
20	64QAM	50	0	21.64	21.88	21.83	
20	64QAM	50	24	21.70	21.86	21.84	
20	64QAM	50	50	21.65	21.91	21.83	20
20	64QAM	100	0	21.69	21.85	21.83	
20	256QAM	1	0	19.67	19.96	19.81	
20	256QAM	1	49	19.61	19.91	19.77	20
20	256QAM	1	99	19.55	19.90	19.73	
20	256QAM	50	0	19.54	19.89	19.68	
20	256QAM	50	24	19.48	19.82	19.59	20
20	256QAM	50	50	19.51	19.80	19.65	
20	256QAM	100	0	19.53	19.82	19.64	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.52	24.87	24.76	25
15	QPSK	1	37	24.51	24.82	24.64	
15	QPSK	1	74	24.39	24.72	24.68	
15	QPSK	36	0	23.59	23.88	23.72	24
15	QPSK	36	20	23.55	23.76	23.80	
15	QPSK	36	39	23.47	23.71	23.72	
15	QPSK	75	0	23.72	23.66	23.70	24
15	16QAM	1	0	23.73	23.93	23.73	
15	16QAM	1	37	23.87	23.79	23.93	
15	16QAM	1	74	23.72	23.78	23.84	23
15	16QAM	36	0	22.55	22.86	22.84	
15	16QAM	36	20	22.58	22.85	22.74	
15	16QAM	36	39	22.56	22.71	22.80	23
15	16QAM	75	0	22.72	22.73	22.70	
15	64QAM	1	0	22.66	22.85	22.77	
15	64QAM	1	37	22.51	22.77	22.86	22
15	64QAM	1	74	22.62	22.70	22.74	
15	64QAM	36	0	21.60	21.88	21.63	
15	64QAM	36	20	21.52	21.72	21.78	20
15	64QAM	36	39	21.62	21.85	21.68	
15	64QAM	75	0	21.55	21.80	21.79	
15	256QAM	1	0	19.51	19.92	19.66	20
15	256QAM	1	37	19.51	19.88	19.77	
15	256QAM	1	74	19.45	19.76	19.68	
15	256QAM	36	0	19.48	19.70	19.48	20
15	256QAM	36	20	19.40	19.63	19.54	
15	256QAM	36	39	19.37	19.80	19.53	
15	256QAM	75	0	19.34	19.79	19.64	



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Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.63	24.90	24.71	25
10	QPSK	1	25	24.57	24.77	24.71	
10	QPSK	1	49	24.51	24.83	24.64	
10	QPSK	25	0	23.55	23.89	23.81	24
10	QPSK	25	12	23.58	23.72	23.72	
10	QPSK	25	25	23.66	23.85	23.75	
10	QPSK	50	0	23.68	23.86	23.70	24
10	16QAM	1	0	23.79	23.93	23.74	
10	16QAM	1	25	23.90	23.80	23.97	
10	16QAM	1	49	23.77	23.80	23.71	23
10	16QAM	25	0	22.57	22.81	22.74	
10	16QAM	25	12	22.73	22.65	22.80	
10	16QAM	25	25	22.45	22.75	22.70	23
10	16QAM	50	0	22.68	22.80	22.82	
10	64QAM	1	0	22.75	22.85	22.93	
10	64QAM	1	25	22.62	22.91	22.86	23
10	64QAM	1	49	22.62	22.78	22.71	
10	64QAM	25	0	21.48	21.71	21.65	
10	64QAM	25	12	21.60	21.66	21.72	22
10	64QAM	25	25	21.58	21.78	21.80	
10	64QAM	50	0	21.63	21.75	21.73	
10	256QAM	1	0	19.49	19.85	19.78	20
10	256QAM	1	25	19.54	19.82	19.67	
10	256QAM	1	49	19.50	19.74	19.73	
10	256QAM	25	0	19.43	19.81	19.64	20
10	256QAM	25	12	19.35	19.77	19.58	
10	256QAM	25	25	19.38	19.76	19.47	
10	256QAM	50	0	19.49	19.71	19.63	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.58	24.86	24.70	25
5	QPSK	1	12	24.51	24.68	24.64	
5	QPSK	1	24	24.58	24.69	24.68	
5	QPSK	12	0	23.49	23.82	23.70	24
5	QPSK	12	7	23.62	23.70	23.78	
5	QPSK	12	13	23.50	23.72	23.73	
5	QPSK	25	0	23.66	23.71	23.68	24
5	16QAM	1	0	23.81	23.82	23.73	
5	16QAM	1	12	23.86	23.89	23.83	
5	16QAM	1	24	23.88	23.68	23.69	23
5	16QAM	12	0	22.62	22.74	22.67	
5	16QAM	12	7	22.57	22.81	22.70	
5	16QAM	12	13	22.45	22.69	22.71	23
5	16QAM	25	0	22.60	22.85	22.69	
5	64QAM	1	0	22.67	22.87	22.96	
5	64QAM	1	12	22.58	22.79	22.84	23
5	64QAM	1	24	22.69	22.80	22.62	
5	64QAM	12	0	21.50	21.84	21.69	
5	64QAM	12	7	21.65	21.77	21.82	22
5	64QAM	12	13	21.53	21.73	21.66	
5	64QAM	25	0	21.52	21.76	21.66	
5	256QAM	1	0	19.63	19.96	19.62	20
5	256QAM	1	12	19.48	19.84	19.63	
5	256QAM	1	24	19.49	19.76	19.70	
5	256QAM	12	0	19.49	19.71	19.56	20
5	256QAM	12	7	19.43	19.75	19.57	
5	256QAM	12	13	19.42	19.68	19.54	
5	256QAM	25	0	19.37	19.64	19.63	



<LTE Band 71_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.65	24.92	24.79	
20	QPSK	1	49	24.62	24.86	24.83	25
20	QPSK	1	99	24.58	24.84	24.77	
20	QPSK	50	0	23.66	23.91	23.88	
20	QPSK	50	24	23.72	23.89	23.88	24
20	QPSK	50	50	23.66	23.87	23.89	
20	QPSK	100	0	23.76	23.86	23.85	
20	16QAM	1	0	23.90	24.00	23.85	24
20	16QAM	1	49	23.97	23.95	23.97	
20	16QAM	1	99	23.90	23.88	23.85	
20	16QAM	50	0	22.71	22.87	22.87	23
20	16QAM	50	24	22.74	22.85	22.87	
20	16QAM	50	50	22.64	22.87	22.88	
20	16QAM	100	0	22.74	22.85	22.87	23
20	64QAM	1	0	22.82	22.95	22.96	
20	64QAM	1	49	22.67	22.93	22.98	
20	64QAM	1	99	22.74	22.81	22.82	22
20	64QAM	50	0	21.64	21.88	21.83	
20	64QAM	50	24	21.70	21.86	21.84	
20	64QAM	50	50	21.65	21.91	21.83	20
20	64QAM	100	0	21.69	21.85	21.83	
20	256QAM	1	0	19.67	19.96	19.81	
20	256QAM	1	49	19.61	19.91	19.77	20
20	256QAM	1	99	19.55	19.90	19.73	
20	256QAM	50	0	19.54	19.89	19.68	
20	256QAM	50	24	19.48	19.82	19.59	20
20	256QAM	50	50	19.51	19.80	19.65	
20	256QAM	100	0	19.53	19.82	19.64	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.52	24.87	24.76	25
15	QPSK	1	37	24.51	24.82	24.64	
15	QPSK	1	74	24.39	24.72	24.68	
15	QPSK	36	0	23.59	23.88	23.72	24
15	QPSK	36	20	23.55	23.76	23.80	
15	QPSK	36	39	23.47	23.71	23.72	
15	QPSK	75	0	23.72	23.66	23.70	24
15	16QAM	1	0	23.73	23.93	23.73	
15	16QAM	1	37	23.87	23.79	23.93	
15	16QAM	1	74	23.72	23.78	23.84	23
15	16QAM	36	0	22.55	22.86	22.84	
15	16QAM	36	20	22.58	22.85	22.74	
15	16QAM	36	39	22.56	22.71	22.80	23
15	16QAM	75	0	22.72	22.73	22.70	
15	64QAM	1	0	22.66	22.85	22.77	
15	64QAM	1	37	22.51	22.77	22.86	23
15	64QAM	1	74	22.62	22.70	22.74	
15	64QAM	36	0	21.60	21.88	21.63	22
15	64QAM	36	20	21.52	21.72	21.78	
15	64QAM	36	39	21.62	21.85	21.68	
15	64QAM	75	0	21.55	21.80	21.79	20
15	256QAM	1	0	19.51	19.92	19.66	
15	256QAM	1	37	19.51	19.88	19.77	
15	256QAM	1	74	19.45	19.76	19.68	20
15	256QAM	36	0	19.48	19.70	19.48	
15	256QAM	36	20	19.40	19.63	19.54	
15	256QAM	36	39	19.37	19.80	19.53	



FCC SAR TEST REPORT

Report No. : FA4O2228B

15	256QAM	75	0	19.34	19.79	19.64	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.63	24.90	24.71	25
10	QPSK	1	25	24.57	24.77	24.71	
10	QPSK	1	49	24.51	24.83	24.64	
10	QPSK	25	0	23.55	23.89	23.81	24
10	QPSK	25	12	23.58	23.72	23.72	
10	QPSK	25	25	23.66	23.85	23.75	
10	QPSK	50	0	23.68	23.86	23.70	24
10	16QAM	1	0	23.79	23.93	23.74	
10	16QAM	1	25	23.90	23.80	23.97	
10	16QAM	1	49	23.77	23.80	23.71	23
10	16QAM	25	0	22.57	22.81	22.74	
10	16QAM	25	12	22.73	22.65	22.80	
10	16QAM	25	25	22.45	22.75	22.70	23
10	16QAM	50	0	22.68	22.80	22.82	
10	64QAM	1	0	22.75	22.85	22.93	
10	64QAM	1	25	22.62	22.91	22.86	23
10	64QAM	1	49	22.62	22.78	22.71	
10	64QAM	25	0	21.48	21.71	21.65	22
10	64QAM	25	12	21.60	21.66	21.72	
10	64QAM	25	25	21.58	21.78	21.80	
10	64QAM	50	0	21.63	21.75	21.73	20
10	256QAM	1	0	19.49	19.85	19.78	
10	256QAM	1	25	19.54	19.82	19.67	
10	256QAM	1	49	19.50	19.74	19.73	20
10	256QAM	25	0	19.43	19.81	19.64	
10	256QAM	25	12	19.35	19.77	19.58	
10	256QAM	25	25	19.38	19.76	19.47	20
10	256QAM	50	0	19.49	19.71	19.63	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.58	24.86	24.70	25
5	QPSK	1	12	24.51	24.68	24.64	
5	QPSK	1	24	24.58	24.69	24.68	
5	QPSK	12	0	23.49	23.82	23.70	24
5	QPSK	12	7	23.62	23.70	23.78	
5	QPSK	12	13	23.50	23.72	23.73	
5	QPSK	25	0	23.66	23.71	23.68	24
5	16QAM	1	0	23.81	23.82	23.73	
5	16QAM	1	12	23.86	23.89	23.83	
5	16QAM	1	24	23.88	23.68	23.69	23
5	16QAM	12	0	22.62	22.74	22.67	
5	16QAM	12	7	22.57	22.81	22.70	
5	16QAM	12	13	22.45	22.69	22.71	23
5	16QAM	25	0	22.60	22.85	22.69	
5	64QAM	1	0	22.67	22.87	22.96	
5	64QAM	1	12	22.58	22.79	22.84	23
5	64QAM	1	24	22.69	22.80	22.62	
5	64QAM	12	0	21.50	21.84	21.69	22
5	64QAM	12	7	21.65	21.77	21.82	
5	64QAM	12	13	21.53	21.73	21.66	
5	64QAM	25	0	21.52	21.76	21.66	20
5	256QAM	1	0	19.63	19.96	19.62	
5	256QAM	1	12	19.48	19.84	19.63	
5	256QAM	1	24	19.49	19.76	19.70	20
5	256QAM	12	0	19.49	19.71	19.56	
5	256QAM	12	7	19.43	19.75	19.57	
5	256QAM	12	13	19.42	19.68	19.54	20
5	256QAM	25	0	19.37	19.64	19.63	



<LTE Band 71_Ant 1_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)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.65	24.92	24.79	
20	QPSK	1	49	24.62	24.86	24.83	25
20	QPSK	1	99	24.58	24.84	24.77	
20	QPSK	50	0	23.66	23.87	23.88	
20	QPSK	50	24	23.72	23.89	23.88	24
20	QPSK	50	50	23.66	23.91	23.89	
20	QPSK	100	0	23.76	23.85	23.85	
20	16QAM	1	0	23.90	24.00	23.85	24
20	16QAM	1	49	23.97	23.95	23.97	
20	16QAM	1	99	23.90	23.88	23.85	
20	16QAM	50	0	22.71	22.87	22.87	23
20	16QAM	50	24	22.74	22.85	22.87	
20	16QAM	50	50	22.64	22.87	22.88	
20	16QAM	100	0	22.74	22.85	22.87	23
20	64QAM	1	0	22.82	22.95	22.96	
20	64QAM	1	49	22.67	22.93	22.98	
20	64QAM	1	99	22.74	22.81	22.82	22
20	64QAM	50	0	21.64	21.88	21.83	
20	64QAM	50	24	21.70	21.86	21.84	
20	64QAM	50	50	21.65	21.91	21.83	20
20	64QAM	100	0	21.69	21.85	21.83	
20	256QAM	1	0	19.55	19.92	19.73	
20	256QAM	1	49	19.43	19.76	19.59	20
20	256QAM	1	99	19.50	19.75	19.69	
20	256QAM	50	0	19.51	19.80	19.57	20
20	256QAM	50	24	19.34	19.63	19.40	
20	256QAM	50	50	19.34	19.70	19.51	
20	256QAM	100	0	19.33	19.77	19.45	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.47	24.82	24.61	25
15	QPSK	1	37	24.56	24.84	24.75	
15	QPSK	1	74	24.55	24.67	24.64	
15	QPSK	36	0	23.57	23.67	23.87	24
15	QPSK	36	20	23.71	23.72	23.85	
15	QPSK	36	39	23.62	23.88	23.86	
15	QPSK	75	0	23.61	23.80	23.85	24
15	16QAM	1	0	23.79	23.89	23.85	
15	16QAM	1	37	23.94	23.92	23.91	
15	16QAM	1	74	23.70	23.80	23.76	23
15	16QAM	36	0	22.60	22.82	22.81	
15	16QAM	36	20	22.66	22.84	22.76	
15	16QAM	36	39	22.53	22.70	22.76	23
15	16QAM	75	0	22.68	22.68	22.80	
15	64QAM	1	0	22.68	22.87	22.78	
15	64QAM	1	37	22.54	22.91	22.80	23
15	64QAM	1	74	22.72	22.77	22.74	
15	64QAM	36	0	21.49	21.75	21.82	22
15	64QAM	36	20	21.55	21.79	21.72	
15	64QAM	36	39	21.50	21.76	21.74	
15	64QAM	75	0	21.64	21.84	21.73	20
15	256QAM	1	0	19.41	19.90	19.67	
15	256QAM	1	37	19.28	19.71	19.41	
15	256QAM	1	74	19.41	19.59	19.49	20
15	256QAM	36	0	19.32	19.67	19.52	
15	256QAM	36	20	19.20	19.45	19.29	
15	256QAM	36	39	19.23	19.61	19.45	



FCC SAR TEST REPORT

Report No. : FA4O2228B

15	256QAM	75	0	19.29	19.58	19.34	Tune-up limit (dBm)
Channel				133172	133297	133422	
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.65	24.88	24.68	25
10	QPSK	1	25	24.61	24.74	24.80	
10	QPSK	1	49	24.49	24.74	24.69	
10	QPSK	25	0	23.61	23.73	23.84	24
10	QPSK	25	12	23.52	23.72	23.72	
10	QPSK	25	25	23.51	23.80	23.75	
10	QPSK	50	0	23.64	23.78	23.85	24
10	16QAM	1	0	23.77	23.96	23.81	
10	16QAM	1	25	23.78	23.88	23.78	
10	16QAM	1	49	23.80	23.73	23.80	23
10	16QAM	25	0	22.65	22.79	22.69	
10	16QAM	25	12	22.55	22.70	22.77	
10	16QAM	25	25	22.61	22.77	22.71	23
10	16QAM	50	0	22.58	22.79	22.73	
10	64QAM	1	0	22.67	22.86	22.96	
10	64QAM	1	25	22.60	22.77	22.78	23
10	64QAM	1	49	22.71	22.69	22.74	
10	64QAM	25	0	21.58	21.84	21.77	22
10	64QAM	25	12	21.59	21.85	21.71	
10	64QAM	25	25	21.51	21.88	21.83	
10	64QAM	50	0	21.50	21.85	21.83	20
10	256QAM	1	0	19.35	19.92	19.69	
10	256QAM	1	25	19.40	19.64	19.47	
10	256QAM	1	49	19.44	19.57	19.67	20
10	256QAM	25	0	19.40	19.75	19.47	
10	256QAM	25	12	19.29	19.62	19.23	
10	256QAM	25	25	19.34	19.69	19.43	20
10	256QAM	50	0	19.30	19.62	19.41	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.49	24.90	24.76	25
5	QPSK	1	12	24.48	24.83	24.83	
5	QPSK	1	24	24.40	24.81	24.57	
5	QPSK	12	0	23.54	23.71	23.88	24
5	QPSK	12	7	23.52	23.84	23.72	
5	QPSK	12	13	23.55	23.72	23.80	
5	QPSK	25	0	23.57	23.85	23.65	24
5	16QAM	1	0	23.89	23.84	23.82	
5	16QAM	1	12	23.77	23.84	23.88	
5	16QAM	1	24	23.78	23.77	23.71	23
5	16QAM	12	0	22.64	22.83	22.67	
5	16QAM	12	7	22.65	22.84	22.78	
5	16QAM	12	13	22.49	22.69	22.73	23
5	16QAM	25	0	22.74	22.75	22.73	
5	64QAM	1	0	22.77	22.86	22.83	
5	64QAM	1	12	22.62	22.92	22.83	23
5	64QAM	1	24	22.54	22.79	22.66	
5	64QAM	12	0	21.52	21.77	21.64	22
5	64QAM	12	7	21.55	21.85	21.79	
5	64QAM	12	13	21.49	21.86	21.80	
5	64QAM	25	0	21.61	21.68	21.68	20
5	256QAM	1	0	19.50	19.83	19.65	
5	256QAM	1	12	19.38	19.67	19.45	
5	256QAM	1	24	19.36	19.62	19.57	20
5	256QAM	12	0	19.38	19.68	19.47	
5	256QAM	12	7	19.28	19.56	19.32	
5	256QAM	12	13	19.28	19.52	19.48	20
5	256QAM	25	0	19.18	19.57	19.34	



<LTE Band 38_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.18	24.20	24.15	
20	QPSK	1	49	24.19	24.10	24.19	25
20	QPSK	1	99	24.13	24.03	23.98	
20	QPSK	50	0	22.37	22.38	22.26	
20	QPSK	50	24	22.32	22.31	22.33	24
20	QPSK	50	50	22.35	22.35	22.37	
20	QPSK	100	0	22.30	22.39	22.38	
20	16QAM	1	0	22.30	23.04	22.99	24
20	16QAM	1	49	22.30	23.09	23.25	
20	16QAM	1	99	23.21	23.13	23.35	
20	16QAM	50	0	21.37	21.22	21.20	22
20	16QAM	50	24	21.32	21.29	21.34	
20	16QAM	50	50	21.32	21.34	21.49	
20	16QAM	100	0	21.30	21.28	21.35	23
20	64QAM	1	0	22.15	21.96	21.94	
20	64QAM	1	49	22.19	22.07	22.21	
20	64QAM	1	99	22.17	22.19	22.28	22
20	64QAM	50	0	21.31	21.17	21.19	
20	64QAM	50	24	21.33	21.24	21.34	
20	64QAM	50	50	21.28	21.25	21.35	20
20	64QAM	100	0	21.26	21.22	21.29	
20	256QAM	1	0	19.36	19.42	19.35	
20	256QAM	1	49	19.25	19.31	19.21	20
20	256QAM	1	99	19.34	19.45	19.34	
20	256QAM	50	0	19.33	19.36	19.30	
20	256QAM	50	24	19.25	19.37	19.25	20
20	256QAM	50	50	19.26	19.37	19.30	
20	256QAM	100	0	19.33	19.39	19.33	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.16	24.15	23.95	
15	QPSK	1	37	24.07	24.05	23.99	25
15	QPSK	1	74	24.09	23.87	23.97	
15	QPSK	36	0	22.32	22.19	22.18	
15	QPSK	36	20	22.27	22.23	22.21	24
15	QPSK	36	39	22.33	22.17	22.25	
15	QPSK	75	0	22.24	22.24	22.20	
15	16QAM	1	0	22.30	22.88	22.87	24
15	16QAM	1	37	22.18	23.03	23.21	
15	16QAM	1	74	23.21	23.07	23.15	
15	16QAM	36	0	21.33	21.15	21.18	22
15	16QAM	36	20	21.16	21.24	21.32	
15	16QAM	36	39	21.21	21.33	21.45	
15	16QAM	75	0	21.12	21.28	21.30	23
15	64QAM	1	0	22.14	21.96	21.87	
15	64QAM	1	37	22.01	22.05	22.21	
15	64QAM	1	74	22.15	22.06	22.27	22
15	64QAM	36	0	21.19	21.11	21.19	
15	64QAM	36	20	21.28	21.24	21.29	
15	64QAM	36	39	21.19	21.14	21.18	20
15	64QAM	75	0	21.11	21.15	21.22	
15	256QAM	1	0	19.21	19.37	19.24	
15	256QAM	1	37	19.23	19.30	19.08	20
15	256QAM	1	74	19.20	19.38	19.27	
15	256QAM	36	0	19.19	19.33	19.13	
15	256QAM	36	20	19.24	19.24	19.09	20
15	256QAM	36	39	19.24	19.17	19.24	



FCC SAR TEST REPORT

Report No. : FA4O2228B

15	256QAM	75	0	19.19	19.24	19.14	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.18	24.01	23.99	25
10	QPSK	1	25	24.02	24.01	24.19	
10	QPSK	1	49	24.01	23.86	23.83	
10	QPSK	25	0	22.24	22.19	22.09	24
10	QPSK	25	12	22.15	22.19	22.17	
10	QPSK	25	25	22.23	22.20	22.29	
10	QPSK	50	0	22.27	22.34	22.22	
10	16QAM	1	0	22.15	22.84	22.93	24
10	16QAM	1	25	22.24	22.99	23.17	
10	16QAM	1	49	23.19	22.99	23.24	
10	16QAM	25	0	21.30	21.22	21.08	22
10	16QAM	25	12	21.23	21.12	21.32	
10	16QAM	25	25	21.31	21.33	21.31	
10	16QAM	50	0	21.17	21.13	21.28	
10	64QAM	1	0	22.01	21.86	21.90	23
10	64QAM	1	25	22.10	22.03	22.13	
10	64QAM	1	49	22.06	22.07	22.22	
10	64QAM	25	0	21.15	21.03	21.06	22
10	64QAM	25	12	21.15	21.21	21.32	
10	64QAM	25	25	21.12	21.07	21.32	
10	64QAM	50	0	21.13	21.18	21.15	
10	256QAM	1	0	19.30	19.40	19.16	20
10	256QAM	1	25	19.25	19.28	19.21	
10	256QAM	1	49	19.29	19.42	19.29	
10	256QAM	25	0	19.13	19.17	19.22	20
10	256QAM	25	12	19.19	19.31	19.24	
10	256QAM	25	25	19.21	19.37	19.13	
10	256QAM	50	0	19.13	19.28	19.21	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.02	24.17	24.05	25
5	QPSK	1	12	24.06	23.90	24.09	
5	QPSK	1	24	24.08	23.95	23.86	
5	QPSK	12	0	22.20	22.19	22.25	24
5	QPSK	12	7	22.32	22.13	22.15	
5	QPSK	12	13	22.25	22.28	22.35	
5	QPSK	25	0	22.25	22.36	22.19	
5	16QAM	1	0	22.16	22.96	22.79	24
5	16QAM	1	12	22.25	22.92	23.16	
5	16QAM	1	24	23.07	23.11	23.23	
5	16QAM	12	0	21.35	21.22	21.06	22
5	16QAM	12	7	21.20	21.09	21.18	
5	16QAM	12	13	21.20	21.34	21.38	
5	16QAM	25	0	21.21	21.11	21.29	
5	64QAM	1	0	22.06	21.88	21.76	23
5	64QAM	1	12	22.03	21.96	22.07	
5	64QAM	1	24	22.03	22.09	22.14	
5	64QAM	12	0	21.25	21.15	21.07	22
5	64QAM	12	7	21.26	21.06	21.34	
5	64QAM	12	13	21.13	21.25	21.25	
5	64QAM	25	0	21.17	21.11	21.20	
5	256QAM	1	0	19.28	19.23	19.25	20
5	256QAM	1	12	19.09	19.15	19.17	
5	256QAM	1	24	19.17	19.37	19.30	
5	256QAM	12	0	19.22	19.27	19.29	20
5	256QAM	12	7	19.25	19.28	19.20	
5	256QAM	12	13	19.24	19.32	19.22	
5	256QAM	25	0	19.22	19.23	19.31	



<LTE Band 38_Ant 5_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)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.58	22.50	23.07	
20	QPSK	1	49	22.60	22.54	22.94	23.5
20	QPSK	1	99	22.55	22.63	23.06	
20	QPSK	50	0	20.72	20.63	21.19	
20	QPSK	50	24	20.66	20.67	21.04	22.5
20	QPSK	50	50	20.65	20.72	21.17	
20	QPSK	100	0	20.64	20.64	21.00	
20	16QAM	1	0	21.58	21.54	21.72	22.5
20	16QAM	1	49	21.63	21.56	21.91	
20	16QAM	1	99	21.50	21.69	22.13	
20	16QAM	50	0	19.72	19.63	19.90	20.5
20	16QAM	50	24	19.67	19.67	20.05	
20	16QAM	50	50	19.65	19.72	20.18	
20	16QAM	100	0	19.62	19.67	20.04	21.5
20	64QAM	1	0	20.71	20.50	20.72	
20	64QAM	1	49	20.61	20.56	20.89	
20	64QAM	1	99	20.60	20.67	21.05	20.5
20	64QAM	50	0	19.72	19.64	19.90	
20	64QAM	50	24	19.67	19.65	20.04	
20	64QAM	50	50	19.71	19.74	20.14	18.5
20	64QAM	100	0	19.68	19.65	20.01	
20	256QAM	1	0	17.11	17.23	17.59	
20	256QAM	1	49	17.30	17.29	17.70	18.5
20	256QAM	1	99	17.32	17.16	17.47	
20	256QAM	50	0	17.27	17.17	17.61	
20	256QAM	50	24	17.32	17.33	17.68	18.5
20	256QAM	50	50	17.32	17.23	17.52	
20	256QAM	100	0	17.22	17.17	17.49	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.58	22.47	22.90	
15	QPSK	1	37	22.44	22.37	22.82	23.5
15	QPSK	1	74	22.54	22.46	22.94	
15	QPSK	36	0	20.64	20.52	21.18	
15	QPSK	36	20	20.79	20.51	20.98	22.5
15	QPSK	36	39	20.53	20.53	21.16	
15	QPSK	75	0	20.50	20.79	20.88	
15	16QAM	1	0	21.38	21.35	21.72	22.5
15	16QAM	1	37	21.44	21.52	21.83	
15	16QAM	1	74	21.47	21.64	22.06	
15	16QAM	36	0	19.67	19.62	19.84	20.5
15	16QAM	36	20	19.65	19.57	20.02	
15	16QAM	36	39	19.54	19.66	20.17	
15	16QAM	75	0	19.42	19.58	19.91	21.5
15	64QAM	1	0	20.64	20.45	20.70	
15	64QAM	1	37	20.58	20.41	20.82	
15	64QAM	1	74	20.43	20.49	20.97	20.5
15	64QAM	36	0	19.70	19.52	19.80	
15	64QAM	36	20	19.63	19.47	20.03	
15	64QAM	36	39	19.58	19.65	20.03	18.5
15	64QAM	75	0	19.58	19.46	19.95	
15	256QAM	1	0	17.09	17.23	17.45	
15	256QAM	1	37	17.13	17.13	17.53	18.5
15	256QAM	1	74	17.16	16.96	17.38	
15	256QAM	36	0	17.15	17.17	17.44	
15	256QAM	36	20	17.27	17.30	17.64	18.5
15	256QAM	36	39	17.19	17.15	17.46	



FCC SAR TEST REPORT

Report No. : FA4O2228B

15	256QAM	75	0	17.08	17.07	17.46	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.40	22.40	22.97	23.5
10	QPSK	1	25	22.45	22.34	22.89	
10	QPSK	1	49	22.42	22.46	22.95	
10	QPSK	25	0	20.59	20.54	21.13	22.5
10	QPSK	25	12	20.53	20.58	20.85	
10	QPSK	25	25	20.62	20.60	21.08	
10	QPSK	50	0	20.51	20.60	20.91	22.5
10	16QAM	1	0	21.52	21.39	21.56	
10	16QAM	1	25	21.52	21.54	21.81	
10	16QAM	1	49	21.37	21.64	22.02	20.5
10	16QAM	25	0	19.59	19.59	19.82	
10	16QAM	25	12	19.51	19.49	19.97	
10	16QAM	25	25	19.63	19.53	20.13	21.5
10	16QAM	50	0	19.49	19.60	19.89	
10	64QAM	1	0	20.70	20.42	20.55	
10	64QAM	1	25	20.50	20.44	20.76	20.5
10	64QAM	1	49	20.59	20.62	21.02	
10	64QAM	25	0	19.65	19.54	19.74	
10	64QAM	25	12	19.54	19.46	19.88	18.5
10	64QAM	25	25	19.63	19.61	20.00	
10	64QAM	50	0	19.60	19.63	19.90	
10	256QAM	1	0	16.92	17.18	17.57	18.5
10	256QAM	1	25	17.18	17.26	17.55	
10	256QAM	1	49	17.30	17.04	17.42	
10	256QAM	25	0	17.14	17.03	17.42	18.5
10	256QAM	25	12	17.31	17.22	17.68	
10	256QAM	25	25	17.16	17.17	17.44	
10	256QAM	50	0	17.20	17.06	17.40	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.43	22.46	22.92	23.5
5	QPSK	1	12	22.56	22.37	22.84	
5	QPSK	1	24	22.36	22.59	22.93	
5	QPSK	12	0	20.62	20.52	21.10	22.5
5	QPSK	12	7	20.57	20.54	20.90	
5	QPSK	12	13	20.61	20.61	21.13	
5	QPSK	25	0	20.62	20.54	20.97	22.5
5	16QAM	1	0	21.49	21.36	21.69	
5	16QAM	1	12	21.58	21.48	21.79	
5	16QAM	1	24	21.38	21.50	22.13	20.5
5	16QAM	12	0	19.66	19.46	19.74	
5	16QAM	12	7	19.55	19.52	19.96	
5	16QAM	12	13	19.63	19.67	20.14	21.5
5	16QAM	25	0	19.60	19.50	19.91	
5	64QAM	1	0	20.63	20.40	20.54	
5	64QAM	1	12	20.60	20.49	20.79	20.5
5	64QAM	1	24	20.40	20.62	21.01	
5	64QAM	12	0	19.59	19.60	19.86	
5	64QAM	12	7	19.49	19.56	19.98	18.5
5	64QAM	12	13	19.71	19.74	20.14	
5	64QAM	25	0	19.49	19.45	19.99	
5	256QAM	1	0	17.10	17.04	17.41	18.5
5	256QAM	1	12	17.22	17.18	17.58	
5	256QAM	1	24	17.20	17.10	17.35	
5	256QAM	12	0	17.13	17.17	17.49	18.5
5	256QAM	12	7	17.27	17.30	17.67	
5	256QAM	12	13	17.31	17.09	17.40	
5	256QAM	25	0	17.07	17.17	17.44	



FCC SAR TEST REPORT

Report No. : FA4O2228B

<LTE Band 41_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

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 limit (dBm)
Channel				39750	40185	40620	41055	41490	25
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.06	24.14	24.98	24.85	24.52	25
20	QPSK	1	49	24.13	24.29	24.54	24.38	24.34	
20	QPSK	1	99	24.05	24.34	24.44	24.32	24.28	
20	QPSK	50	0	23.24	23.21	23.54	23.39	23.52	24
20	QPSK	50	24	23.29	23.23	23.52	23.45	23.45	
20	QPSK	50	50	23.28	23.29	23.53	23.47	23.35	
20	QPSK	100	0	23.28	23.26	23.46	23.48	23.45	24
20	16QAM	1	0	23.01	23.07	23.29	23.42	23.45	
20	16QAM	1	49	23.06	23.15	23.46	23.39	23.30	
20	16QAM	1	99	23.16	23.17	23.55	23.35	23.24	23
20	16QAM	50	0	22.24	22.23	22.34	22.48	22.53	
20	16QAM	50	24	22.26	22.26	22.46	22.44	22.46	
20	16QAM	50	50	22.26	22.23	22.52	22.45	22.34	23
20	16QAM	100	0	22.24	22.22	22.43	22.42	22.43	
20	64QAM	1	0	22.02	22.01	22.19	22.44	22.43	23
20	64QAM	1	49	22.18	22.08	22.28	22.32	22.28	
20	64QAM	1	99	22.13	22.14	22.43	22.35	22.19	
20	64QAM	50	0	21.26	21.19	21.35	21.47	21.49	22
20	64QAM	50	24	21.25	21.25	21.50	21.45	21.44	
20	64QAM	50	50	21.26	21.24	21.52	21.45	21.35	
20	64QAM	100	0	21.25	21.24	21.48	21.41	21.45	20
20	256QAM	1	0	18.96	18.97	19.36	19.90	19.38	
20	256QAM	1	49	18.97	19.01	19.37	19.94	19.46	
20	256QAM	1	99	18.99	19.00	19.37	19.91	19.38	20
20	256QAM	50	0	19.00	19.07	19.41	19.96	19.40	
20	256QAM	50	24	18.99	19.07	19.47	19.98	19.43	
20	256QAM	50	50	18.97	19.01	19.37	19.91	19.41	20
20	256QAM	100	0	19.00	19.03	19.41	19.96	19.48	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.02	24.01	24.33	24.89	24.46	25
15	QPSK	1	37	24.06	24.18	24.35	24.21	24.32	
15	QPSK	1	74	24.05	24.27	24.44	24.24	24.20	
15	QPSK	36	0	23.19	23.07	23.36	23.45	23.51	24
15	QPSK	36	20	23.22	23.07	23.49	23.29	23.33	
15	QPSK	36	39	23.08	23.27	23.51	23.29	23.33	
15	QPSK	75	0	23.13	23.13	23.45	23.36	23.35	24
15	16QAM	1	0	22.96	23.04	23.28	23.31	23.30	
15	16QAM	1	37	22.94	22.98	23.35	23.23	23.27	
15	16QAM	1	74	23.08	23.05	23.45	23.27	23.24	23
15	16QAM	36	0	22.09	22.22	22.30	22.40	22.52	
15	16QAM	36	20	22.13	22.14	22.39	22.41	22.29	
15	16QAM	36	39	22.16	22.18	22.43	22.41	22.21	23
15	16QAM	75	0	22.11	22.05	22.26	22.41	22.41	
15	64QAM	1	0	21.83	21.88	22.15	22.26	22.27	23
15	64QAM	1	37	22.18	21.94	22.12	22.26	22.16	
15	64QAM	1	74	22.05	22.09	22.35	22.33	22.06	
15	64QAM	36	0	21.19	21.18	21.30	21.34	21.39	22
15	64QAM	36	20	21.06	21.21	21.46	21.35	21.26	
15	64QAM	36	39	21.11	21.04	21.36	21.29	21.23	
15	64QAM	75	0	21.13	21.04	21.39	21.22	21.37	20
15	256QAM	1	0	18.88	18.94	19.29	19.73	19.18	
15	256QAM	1	37	18.96	18.97	19.28	19.80	19.43	
15	256QAM	1	74	18.80	18.82	19.33	19.84	19.27	20
15	256QAM	36	0	18.92	18.99	19.22	19.87	19.35	
15	256QAM	36	20	18.94	19.00	19.47	19.81	19.42	
15	256QAM	36	39	18.92	18.90	19.19	19.77	19.27	



FCC SAR TEST REPORT

Report No. : FA4O2228B

15	256QAM	75	0	18.94	18.89	19.25	19.81	19.30	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.93	24.03	24.42	24.91	24.49	25
10	QPSK	1	25	24.09	24.21	24.47	24.35	24.17	
10	QPSK	1	49	23.97	24.24	24.28	24.21	24.24	
10	QPSK	25	0	23.17	23.18	23.37	23.48	23.36	24
10	QPSK	25	12	23.17	23.04	23.39	23.33	23.33	
10	QPSK	25	25	23.12	23.09	23.34	23.45	23.34	
10	QPSK	50	0	23.18	23.19	23.30	23.31	23.27	
10	16QAM	1	0	22.92	22.89	23.29	23.40	23.31	24
10	16QAM	1	25	23.00	22.96	23.46	23.35	23.14	
10	16QAM	1	49	23.04	22.99	23.53	23.31	23.19	
10	16QAM	25	0	22.17	22.11	22.23	22.46	22.38	23
10	16QAM	25	12	22.06	22.08	22.34	22.31	22.29	
10	16QAM	25	25	22.10	22.10	22.51	22.43	22.14	
10	16QAM	50	0	22.05	22.04	22.27	22.34	22.29	
10	64QAM	1	0	21.92	21.88	22.04	22.31	22.31	23
10	64QAM	1	25	22.08	22.05	22.28	22.31	22.25	
10	64QAM	1	49	22.06	21.98	22.39	22.23	22.02	
10	64QAM	25	0	21.25	21.12	21.20	21.44	21.29	22
10	64QAM	25	12	21.13	21.17	21.41	21.28	21.25	
10	64QAM	25	25	21.07	21.11	21.45	21.40	21.17	
10	64QAM	50	0	21.12	21.10	21.41	21.35	21.45	
10	256QAM	1	0	18.77	18.95	19.21	19.75	19.18	20
10	256QAM	1	25	18.77	18.87	19.22	19.91	19.43	
10	256QAM	1	49	18.89	18.86	19.27	19.78	19.21	
10	256QAM	25	0	18.97	18.99	19.28	19.78	19.34	20
10	256QAM	25	12	18.92	19.03	19.27	19.92	19.39	
10	256QAM	25	25	18.84	18.92	19.33	19.89	19.38	
10	256QAM	50	0	18.86	18.88	19.41	19.89	19.32	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	23.97	24.14	24.44	24.84	24.52	25
5	QPSK	1	12	23.94	24.21	24.38	24.32	24.14	
5	QPSK	1	24	23.89	24.19	24.38	24.14	24.21	
5	QPSK	12	0	23.14	23.03	23.38	23.38	23.50	24
5	QPSK	12	7	23.28	23.22	23.36	23.44	23.25	
5	QPSK	12	13	23.26	23.21	23.44	23.47	23.35	
5	QPSK	25	0	23.13	23.16	23.36	23.36	23.30	
5	16QAM	1	0	23.01	22.89	23.14	23.38	23.31	24
5	16QAM	1	12	22.99	23.01	23.43	23.31	23.25	
5	16QAM	1	24	23.07	23.09	23.41	23.17	23.12	
5	16QAM	12	0	22.13	22.14	22.19	22.48	22.33	23
5	16QAM	12	7	22.17	22.17	22.35	22.30	22.29	
5	16QAM	12	13	22.25	22.22	22.33	22.44	22.17	
5	16QAM	25	0	22.20	22.12	22.37	22.36	22.36	
5	64QAM	1	0	21.85	21.81	22.19	22.42	22.31	23
5	64QAM	1	12	22.02	22.01	22.27	22.31	22.09	
5	64QAM	1	24	21.98	22.00	22.28	22.21	22.12	
5	64QAM	12	0	21.23	21.11	21.30	21.34	21.47	22
5	64QAM	12	7	21.25	21.06	21.36	21.45	21.30	
5	64QAM	12	13	21.21	21.15	21.50	21.36	21.22	
5	64QAM	25	0	21.20	21.17	21.43	21.41	21.34	
5	256QAM	1	0	18.82	18.85	19.34	19.89	19.22	20
5	256QAM	1	12	18.85	18.89	19.18	19.79	19.41	
5	256QAM	1	24	18.82	18.94	19.28	19.73	19.30	
5	256QAM	12	0	18.87	18.91	19.36	19.85	19.23	20
5	256QAM	12	7	18.85	19.04	19.39	19.90	19.25	
5	256QAM	12	13	18.97	18.99	19.19	19.77	19.31	
5	256QAM	25	0	18.90	18.84	19.25	19.76	19.41	



<LTE Band 41_Ant 5_DSI 3>

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 limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.47	22.56	22.67	22.58	22.60	23.5
20	QPSK	1	49	22.55	22.66	22.55	22.65	22.62	
20	QPSK	1	99	22.51	22.66	22.50	22.61	22.60	
20	QPSK	50	0	21.64	21.75	21.82	21.75	21.68	22.5
20	QPSK	50	24	21.67	21.80	21.73	21.70	21.65	
20	QPSK	50	50	21.63	21.81	21.70	21.71	21.63	
20	QPSK	100	0	21.63	21.78	21.80	21.70	21.73	22.5
20	16QAM	1	0	21.51	21.67	21.93	21.84	22.18	
20	16QAM	1	49	21.67	21.63	22.06	21.95	21.97	
20	16QAM	1	99	21.56	21.62	22.30	21.96	21.96	21.5
20	16QAM	50	0	20.62	20.76	21.08	20.96	21.10	
20	16QAM	50	24	20.68	20.80	21.23	20.90	21.04	
20	16QAM	50	50	20.65	20.81	21.24	20.92	20.92	21.5
20	16QAM	100	0	20.63	20.77	21.19	20.99	21.01	
20	64QAM	1	0	20.44	20.57	20.98	20.88	21.07	21.5
20	64QAM	1	49	20.57	20.78	21.01	20.89	20.90	
20	64QAM	1	99	20.55	20.71	21.19	20.92	20.89	
20	64QAM	50	0	19.66	19.76	20.08	19.95	20.10	20.5
20	64QAM	50	24	19.65	19.82	20.25	19.99	20.05	
20	64QAM	50	50	19.65	19.80	20.29	19.91	19.94	
20	64QAM	100	0	19.65	19.78	20.20	19.99	20.04	18.5
20	256QAM	1	0	17.28	17.32	17.67	17.55	17.65	
20	256QAM	1	49	17.22	17.48	17.85	17.57	17.60	
20	256QAM	1	99	17.15	17.36	17.74	17.57	17.59	18.5
20	256QAM	50	0	17.30	17.37	17.77	17.58	17.67	
20	256QAM	50	24	17.12	17.35	17.77	17.52	17.61	
20	256QAM	50	50	17.17	17.48	17.95	17.44	17.55	18.5
20	256QAM	100	0	17.10	17.29	17.90	17.41	17.54	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.29	22.49	22.58	22.38	22.57	23.5
15	QPSK	1	37	22.48	22.63	22.54	22.61	22.49	
15	QPSK	1	74	22.41	22.59	22.49	22.59	22.45	
15	QPSK	36	0	21.57	21.61	21.76	21.66	21.66	22.5
15	QPSK	36	20	21.52	21.62	21.70	21.68	21.56	
15	QPSK	36	39	21.63	21.74	21.58	21.60	21.43	
15	QPSK	75	0	21.52	21.71	21.62	21.65	21.63	22.5
15	16QAM	1	0	21.47	21.66	21.89	21.74	22.16	
15	16QAM	1	37	21.62	21.47	21.88	21.89	21.79	
15	16QAM	1	74	21.53	21.42	22.24	21.93	21.76	21.5
15	16QAM	36	0	20.44	20.56	20.98	20.90	21.05	
15	16QAM	36	20	20.58	20.67	21.22	20.82	20.90	
15	16QAM	36	39	20.54	20.69	21.15	20.78	20.91	21.5
15	16QAM	75	0	20.43	20.61	21.14	20.91	21.00	
15	64QAM	1	0	20.39	20.51	20.85	20.70	21.01	
15	64QAM	1	37	20.46	20.78	20.84	20.86	20.86	20.5
15	64QAM	1	74	20.47	20.56	21.06	20.86	20.74	
15	64QAM	36	0	19.61	19.73	19.98	19.85	20.03	
15	64QAM	36	20	19.60	19.65	20.21	19.86	19.98	18.5
15	64QAM	36	39	19.55	19.73	20.12	19.77	19.74	
15	64QAM	75	0	19.56	19.62	20.11	19.95	19.85	
15	256QAM	1	0	17.26	17.22	17.60	17.43	17.54	18.5
15	256QAM	1	37	17.16	17.48	17.67	17.37	17.50	
15	256QAM	1	74	17.10	17.18	17.67	17.41	17.59	
15	256QAM	36	0	17.15	17.22	17.74	17.53	17.59	18.5
15	256QAM	36	20	17.08	17.31	17.68	17.43	17.60	
15	256QAM	36	39	17.13	17.30	17.85	17.40	17.48	



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15	256QAM	75	0	17.08	17.26	17.76	17.26	17.51	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.36	22.41	22.60	22.39	22.56	23.5
10	QPSK	1	25	22.52	22.51	22.52	22.45	22.43	
10	QPSK	1	49	22.47	22.65	22.30	22.50	22.53	
10	QPSK	25	0	21.58	21.69	21.74	21.57	21.64	22.5
10	QPSK	25	12	21.52	21.62	21.59	21.58	21.48	
10	QPSK	25	25	21.61	21.61	21.68	21.58	21.52	
10	QPSK	50	0	21.61	21.72	21.62	21.56	21.66	
10	16QAM	1	0	21.39	21.57	21.74	21.73	21.99	22.5
10	16QAM	1	25	21.54	21.61	21.87	21.89	21.93	
10	16QAM	1	49	21.39	21.53	22.29	21.76	21.80	
10	16QAM	25	0	20.53	20.71	20.91	20.83	20.90	21.5
10	16QAM	25	12	20.49	20.79	21.18	20.85	20.85	
10	16QAM	25	25	20.49	20.65	21.23	20.74	20.79	
10	16QAM	50	0	20.53	20.72	21.07	20.84	20.81	
10	64QAM	1	0	20.44	20.53	20.84	20.86	20.92	21.5
10	64QAM	1	25	20.42	20.58	20.88	20.84	20.80	
10	64QAM	1	49	20.53	20.62	21.02	20.78	20.76	
10	64QAM	25	0	19.61	19.74	19.89	19.77	20.08	20.5
10	64QAM	25	12	19.63	19.73	20.15	19.79	20.01	
10	64QAM	25	25	19.62	19.77	20.16	19.75	19.93	
10	64QAM	50	0	19.46	19.67	20.00	19.92	19.89	
10	256QAM	1	0	17.20	17.20	17.58	17.36	17.58	18.5
10	256QAM	1	25	17.10	17.45	17.70	17.40	17.60	
10	256QAM	1	49	16.97	17.27	17.55	17.48	17.49	
10	256QAM	25	0	17.23	17.24	17.77	17.50	17.57	18.5
10	256QAM	25	12	16.93	17.28	17.62	17.45	17.41	
10	256QAM	25	25	17.13	17.46	17.83	17.37	17.37	
10	256QAM	50	0	17.09	17.14	17.74	17.21	17.54	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.47	22.54	22.57	22.40	22.45	23.5
5	QPSK	1	12	22.50	22.46	22.38	22.46	22.42	
5	QPSK	1	24	22.39	22.63	22.30	22.42	22.57	
5	QPSK	12	0	21.58	21.60	21.72	21.69	21.68	22.5
5	QPSK	12	7	21.59	21.80	21.55	21.63	21.51	
5	QPSK	12	13	21.43	21.63	21.52	21.57	21.48	
5	QPSK	25	0	21.61	21.72	21.68	21.64	21.63	
5	16QAM	1	0	21.47	21.65	21.73	21.77	22.04	22.5
5	16QAM	1	12	21.59	21.57	22.02	21.91	21.77	
5	16QAM	1	24	21.46	21.61	22.18	21.94	21.93	
5	16QAM	12	0	20.52	20.65	20.98	20.77	20.98	21.5
5	16QAM	12	7	20.49	20.76	21.15	20.86	20.99	
5	16QAM	12	13	20.51	20.75	21.12	20.84	20.74	
5	16QAM	25	0	20.50	20.60	21.02	20.91	20.93	
5	64QAM	1	0	20.41	20.55	20.96	20.71	20.98	21.5
5	64QAM	1	12	20.45	20.69	21.00	20.70	20.83	
5	64QAM	1	24	20.47	20.56	21.13	20.85	20.69	
5	64QAM	12	0	19.51	19.64	19.99	19.79	19.90	20.5
5	64QAM	12	7	19.47	19.78	20.20	19.92	20.01	
5	64QAM	12	13	19.59	19.74	20.23	19.86	19.89	
5	64QAM	25	0	19.53	19.68	20.18	19.93	20.01	
5	256QAM	1	0	17.27	17.29	17.61	17.46	17.56	18.5
5	256QAM	1	12	17.05	17.40	17.83	17.51	17.45	
5	256QAM	1	24	16.95	17.35	17.64	17.52	17.47	
5	256QAM	12	0	17.15	17.21	17.72	17.41	17.55	18.5
5	256QAM	12	7	17.07	17.25	17.68	17.38	17.41	
5	256QAM	12	13	17.17	17.48	17.93	17.31	17.37	
5	256QAM	25	0	16.91	17.24	17.70	17.36	17.51	



<LTE Band 48_Ant 8_DSI 0 / DSI 1 (WLAN OFF)>

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.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	24.20	24.23	24.23	24.25	24.3
20	QPSK	1	49	23.99	24.03	24.02	24.12	
20	QPSK	1	99	23.87	23.91	23.90	23.99	
20	QPSK	50	0	23.10	23.13	23.14	23.16	23.3
20	QPSK	50	24	23.15	23.14	23.10	23.13	
20	QPSK	50	50	23.08	23.10	23.10	23.11	
20	QPSK	100	0	23.10	23.13	23.08	23.17	23.3
20	16QAM	1	0	23.01	23.09	23.16	23.20	
20	16QAM	1	49	23.03	23.03	22.99	23.13	
20	16QAM	1	99	22.95	22.97	22.92	22.95	22.3
20	16QAM	50	0	22.13	22.12	22.12	22.22	
20	16QAM	50	24	22.11	22.15	22.09	22.19	
20	16QAM	50	50	22.08	22.08	22.08	22.19	22.3
20	16QAM	100	0	22.09	22.13	22.06	22.14	
20	64QAM	1	0	21.98	22.07	22.08	22.22	
20	64QAM	1	49	21.99	22.04	21.97	22.04	21.3
20	64QAM	1	99	21.86	21.92	21.88	21.97	
20	64QAM	50	0	21.13	21.10	21.14	21.21	
20	64QAM	50	24	21.12	21.17	21.07	21.19	19.3
20	64QAM	50	50	21.05	21.09	21.10	21.19	
20	64QAM	100	0	21.09	21.15	21.05	21.17	
20	256QAM	1	0	19.10	19.06	19.15	19.14	19.3
20	256QAM	1	49	19.14	19.16	19.17	19.13	
20	256QAM	1	99	19.23	19.17	19.20	19.25	
20	256QAM	50	0	19.22	19.27	19.21	19.25	19.3
20	256QAM	50	24	19.10	19.14	19.16	19.18	
20	256QAM	50	50	19.22	19.27	19.21	19.28	
20	256QAM	100	0	19.07	19.15	19.12	19.15	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	24.13	24.15	24.05	24.24	24.3
15	QPSK	1	37	23.81	23.86	23.95	24.00	
15	QPSK	1	74	23.79	23.71	23.85	23.95	
15	QPSK	36	0	23.03	23.11	23.10	23.00	23.3
15	QPSK	36	20	23.10	23.09	23.06	23.05	
15	QPSK	36	39	22.92	22.92	22.97	23.10	
15	QPSK	75	0	22.98	23.02	23.07	23.10	23.3
15	16QAM	1	0	22.93	22.99	23.12	23.18	
15	16QAM	1	37	22.97	22.98	22.94	23.11	
15	16QAM	1	74	22.79	22.78	22.84	22.75	22.3
15	16QAM	36	0	22.11	22.00	22.07	22.04	
15	16QAM	36	20	21.91	21.96	21.90	22.16	
15	16QAM	36	39	21.92	21.89	21.95	22.00	22.3
15	16QAM	75	0	22.03	21.95	22.01	22.09	
15	64QAM	1	0	21.95	21.97	22.07	22.13	
15	64QAM	1	37	21.97	21.97	21.94	21.95	21.3
15	64QAM	1	74	21.74	21.81	21.70	21.88	
15	64QAM	36	0	21.01	21.01	21.10	21.05	
15	64QAM	36	20	21.07	21.04	20.88	21.05	19.3
15	64QAM	36	39	20.89	21.03	20.92	21.15	
15	64QAM	75	0	21.07	20.98	20.98	21.05	
15	256QAM	1	0	18.96	19.01	19.05	19.04	19.3
15	256QAM	1	37	18.95	18.97	18.98	19.12	
15	256QAM	1	74	19.10	19.00	19.20	19.15	
15	256QAM	36	0	19.06	19.26	19.03	19.20	19.3
15	256QAM	36	20	19.02	19.10	19.04	19.08	
15	256QAM	36	39	19.16	19.24	19.10	19.23	
15	256QAM	75	0	19.04	19.02	19.04	19.12	



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Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	24.08	24.23	24.12	24.12	24.3
10	QPSK	1	25	23.98	23.99	23.82	23.93	
10	QPSK	1	49	23.70	23.86	23.86	23.90	
10	QPSK	25	0	22.90	23.09	23.00	23.04	23.3
10	QPSK	25	12	23.05	23.01	23.00	23.04	
10	QPSK	25	25	22.89	22.92	23.01	23.08	
10	QPSK	50	0	22.99	23.01	23.01	22.99	23.3
10	16QAM	1	0	22.94	22.93	23.14	23.05	
10	16QAM	1	25	22.90	22.97	22.82	22.97	
10	16QAM	1	49	22.89	22.96	22.81	22.81	22.3
10	16QAM	25	0	22.10	22.01	22.05	22.21	
10	16QAM	25	12	22.08	22.07	22.01	22.08	
10	16QAM	25	25	21.95	22.05	21.99	22.03	22.3
10	16QAM	50	0	21.95	22.12	21.96	22.03	
10	64QAM	1	0	21.89	22.05	21.89	22.12	
10	64QAM	1	25	21.89	21.94	21.89	22.02	21.3
10	64QAM	1	49	21.74	21.72	21.74	21.92	
10	64QAM	25	0	21.06	20.96	21.10	21.13	
10	64QAM	25	12	21.04	21.10	20.98	21.09	19.3
10	64QAM	25	25	20.94	21.00	21.05	21.04	
10	64QAM	50	0	21.07	21.11	21.04	20.97	
10	256QAM	1	0	19.01	19.01	19.08	19.09	19.3
10	256QAM	1	25	19.10	19.15	18.98	19.01	
10	256QAM	1	49	19.17	19.02	19.15	19.25	
10	256QAM	25	0	19.15	19.11	19.02	19.21	19.3
10	256QAM	25	12	18.98	19.00	18.99	19.07	
10	256QAM	25	25	19.06	19.22	19.21	19.23	
10	256QAM	50	0	18.98	19.03	19.11	19.06	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	24.01	24.06	24.13	24.07	24.3
5	QPSK	1	12	23.89	23.87	23.83	24.11	
5	QPSK	1	24	23.71	23.89	23.77	23.85	
5	QPSK	12	0	23.02	22.93	23.12	23.13	23.3
5	QPSK	12	7	22.95	23.08	22.90	23.01	
5	QPSK	12	13	23.03	22.92	22.98	23.05	
5	QPSK	25	0	22.96	23.13	23.04	23.08	23.3
5	16QAM	1	0	22.97	22.98	23.02	23.00	
5	16QAM	1	12	22.99	22.91	22.82	23.12	
5	16QAM	1	24	22.90	22.84	22.92	22.82	22.3
5	16QAM	12	0	21.97	22.10	21.95	22.14	
5	16QAM	12	7	22.00	22.10	22.01	21.99	
5	16QAM	12	13	21.91	22.02	21.95	22.02	22.3
5	16QAM	25	0	22.01	21.98	21.98	22.11	
5	64QAM	1	0	21.90	22.07	22.08	22.05	
5	64QAM	1	12	21.87	21.92	21.86	22.02	21.3
5	64QAM	1	24	21.77	21.82	21.82	21.97	
5	64QAM	12	0	20.94	21.05	21.10	21.13	
5	64QAM	12	7	21.11	20.99	20.98	21.19	19.3
5	64QAM	12	13	20.90	20.99	20.90	21.13	
5	64QAM	25	0	21.08	21.07	20.97	21.15	
5	256QAM	1	0	19.09	18.97	19.10	18.96	19.3
5	256QAM	1	12	19.13	19.10	19.07	18.97	
5	256QAM	1	24	19.17	19.09	19.05	19.25	
5	256QAM	12	0	19.10	19.23	19.03	19.18	19.3
5	256QAM	12	7	19.09	19.07	19.02	19.10	
5	256QAM	12	13	19.10	19.19	19.08	19.19	
5	256QAM	25	0	19.07	19.03	19.02	19.01	

<LTE Band 48_Ant 8_DSI 3>

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.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.87	21.87	21.94	21.98	22.5
20	QPSK	1	49	21.83	21.79	21.87	21.91	
20	QPSK	1	99	21.69	21.60	21.70	21.77	
20	QPSK	50	0	20.95	20.87	20.93	21.05	21.5
20	QPSK	50	24	20.92	20.92	20.95	21.04	
20	QPSK	50	50	20.89	20.84	20.89	20.96	
20	QPSK	100	0	20.92	20.90	20.95	20.97	21.5
20	16QAM	1	0	20.89	20.87	20.91	20.97	
20	16QAM	1	49	20.86	20.79	20.86	20.89	
20	16QAM	1	99	20.68	20.60	20.74	20.79	20.5
20	16QAM	50	0	19.96	19.88	19.93	20.03	
20	16QAM	50	24	19.94	19.91	19.93	19.99	
20	16QAM	50	50	19.88	19.82	19.89	19.93	20.5
20	16QAM	100	0	19.89	19.87	19.93	19.99	
20	64QAM	1	0	19.73	19.88	19.88	19.95	
20	64QAM	1	49	19.96	19.87	19.89	19.87	20.5
20	64QAM	1	99	19.75	19.60	19.70	19.77	
20	64QAM	50	0	18.95	18.87	18.93	19.04	
20	64QAM	50	24	18.90	18.90	18.97	19.00	19.5
20	64QAM	50	50	18.89	18.83	18.88	18.92	
20	64QAM	100	0	18.93	18.87	18.94	19.00	
20	256QAM	1	0	16.73	16.87	16.82	16.82	17.5
20	256QAM	1	49	16.68	16.65	16.82	16.67	
20	256QAM	1	99	16.63	16.59	16.68	16.60	
20	256QAM	50	0	16.71	16.77	16.75	16.80	17.5
20	256QAM	50	24	16.72	16.81	16.72	16.72	
20	256QAM	50	50	16.74	16.75	16.69	16.59	
20	256QAM	100	0	16.78	16.89	16.59	16.69	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.72	21.69	21.74	21.79	22.5
15	QPSK	1	37	21.77	21.78	21.72	21.83	
15	QPSK	1	74	21.54	21.51	21.60	21.70	
15	QPSK	36	0	20.78	20.84	20.89	21.04	21.5
15	QPSK	36	20	20.78	20.90	20.79	20.98	
15	QPSK	36	39	20.88	20.83	20.84	20.90	
15	QPSK	75	0	20.84	20.84	20.88	20.93	21.5
15	16QAM	1	0	20.88	20.75	20.89	20.97	
15	16QAM	1	37	20.80	20.67	20.69	20.84	
15	16QAM	1	74	20.57	20.50	20.59	20.77	20.5
15	16QAM	36	0	19.85	19.83	19.82	19.99	
15	16QAM	36	20	19.84	19.87	19.84	19.98	
15	16QAM	36	39	19.87	19.72	19.83	19.82	20.5
15	16QAM	75	0	19.87	19.74	19.84	19.99	
15	64QAM	1	0	19.72	19.83	19.74	19.78	
15	64QAM	1	37	19.81	19.85	19.86	19.84	19.5
15	64QAM	1	74	19.66	19.42	19.67	19.71	
15	64QAM	36	0	18.82	18.72	18.77	19.04	
15	64QAM	36	20	18.85	18.75	18.88	18.85	17.5
15	64QAM	36	39	18.81	18.64	18.88	18.78	
15	64QAM	75	0	18.88	18.79	18.79	18.84	
15	256QAM	1	0	16.54	16.76	16.78	16.65	17.5
15	256QAM	1	37	16.61	16.63	16.72	16.56	
15	256QAM	1	74	16.60	16.52	16.63	16.57	
15	256QAM	36	0	16.63	16.75	16.55	16.80	17.5
15	256QAM	36	20	16.67	16.61	16.67	16.72	
15	256QAM	36	39	16.64	16.71	16.52	16.52	
15	256QAM	75	0	16.70	16.79	16.45	16.68	



FCC SAR TEST REPORT

Report No. : FA4O2228B

Channel				55290	55815	56165	56690	Tune-up limit
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)
10	QPSK	1	0	21.79	21.69	21.89	21.85	22.5
10	QPSK	1	25	21.67	21.59	21.69	21.78	
10	QPSK	1	49	21.53	21.58	21.64	21.57	
10	QPSK	25	0	20.84	20.74	20.87	21.03	21.5
10	QPSK	25	12	20.84	20.84	20.80	20.99	
10	QPSK	25	25	20.76	20.76	20.83	20.89	
10	QPSK	50	0	20.73	20.80	20.80	20.91	21.5
10	16QAM	1	0	20.87	20.78	20.77	20.79	
10	16QAM	1	25	20.83	20.73	20.82	20.86	
10	16QAM	1	49	20.67	20.44	20.66	20.60	20.5
10	16QAM	25	0	19.84	19.86	19.82	20.03	
10	16QAM	25	12	19.86	19.77	19.73	19.83	
10	16QAM	25	25	19.87	19.67	19.69	19.80	20.5
10	16QAM	50	0	19.81	19.69	19.93	19.97	
10	64QAM	1	0	19.58	19.84	19.77	19.85	
10	64QAM	1	25	19.79	19.82	19.88	19.80	20.5
10	64QAM	1	49	19.60	19.54	19.52	19.73	
10	64QAM	25	0	18.77	18.78	18.73	18.96	
10	64QAM	25	12	18.78	18.71	18.79	18.99	19.5
10	64QAM	25	25	18.85	18.75	18.87	18.84	
10	64QAM	50	0	18.75	18.73	18.92	18.93	
10	256QAM	1	0	16.62	16.80	16.77	16.77	17.5
10	256QAM	1	25	16.57	16.56	16.81	16.59	
10	256QAM	1	49	16.59	16.42	16.49	16.51	
10	256QAM	25	0	16.70	16.58	16.72	16.75	17.5
10	256QAM	25	12	16.72	16.69	16.71	16.70	
10	256QAM	25	25	16.74	16.74	16.67	16.51	
10	256QAM	50	0	16.67	16.89	16.48	16.69	
Channel				55265	55810	56170	56715	Tune-up limit
Frequency (MHz)				3552.5	3607	3643	3697.5	(dBm)
5	QPSK	1	0	21.69	21.85	21.78	21.81	22.5
5	QPSK	1	12	21.71	21.78	21.83	21.76	
5	QPSK	1	24	21.50	21.50	21.54	21.68	
5	QPSK	12	0	20.80	20.79	20.75	21.01	21.5
5	QPSK	12	7	20.83	20.73	20.95	20.99	
5	QPSK	12	13	20.86	20.82	20.85	20.76	
5	QPSK	25	0	20.80	20.82	20.88	20.79	21.5
5	16QAM	1	0	20.81	20.70	20.87	20.88	
5	16QAM	1	12	20.77	20.60	20.66	20.80	
5	16QAM	1	24	20.68	20.55	20.62	20.77	20.5
5	16QAM	12	0	19.86	19.79	19.83	19.84	
5	16QAM	12	7	19.91	19.76	19.88	19.85	
5	16QAM	12	13	19.74	19.74	19.84	19.74	20.5
5	16QAM	25	0	19.70	19.85	19.79	19.88	
5	64QAM	1	0	19.62	19.86	19.88	19.90	
5	64QAM	1	12	19.82	19.86	19.77	19.84	20.5
5	64QAM	1	24	19.69	19.40	19.64	19.73	
5	64QAM	12	0	18.83	18.75	18.83	18.84	
5	64QAM	12	7	18.73	18.77	18.96	18.82	19.5
5	64QAM	12	13	18.87	18.70	18.79	18.90	
5	64QAM	25	0	18.93	18.70	18.86	18.85	
5	256QAM	1	0	16.56	16.75	16.65	16.81	17.5
5	256QAM	1	12	16.64	16.61	16.76	16.56	
5	256QAM	1	24	16.53	16.53	16.62	16.55	
5	256QAM	12	0	16.71	16.61	16.64	16.64	17.5
5	256QAM	12	7	16.69	16.78	16.64	16.59	
5	256QAM	12	13	16.68	16.67	16.53	16.40	
5	256QAM	25	0	16.61	16.79	16.54	16.56	



<FR1 n2_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	25.15	25.24	25.18	
20	PI/2 BPSK	1	53	24.97	25.12	24.92	25.7
20	PI/2 BPSK	1	104	24.91	25.01	24.85	
20	PI/2 BPSK	50	0	25.01	25.18	25.05	
20	PI/2 BPSK	50	28	24.97	25.12	25.00	25.7
20	PI/2 BPSK	50	56	24.89	24.99	24.79	25.7
20	PI/2 BPSK	100	0	24.97	25.15	25.03	
20	QPSK	1	1	25.03	25.23	25.11	25.7
20	QPSK	1	53	25.04	25.16	25.02	
20	QPSK	1	104	24.83	24.96	24.79	
20	QPSK	50	0	24.58	24.68	24.48	25.7
20	QPSK	50	28	24.98	25.13	24.96	25.7
20	QPSK	50	56	24.52	24.69	24.53	25.7
20	QPSK	100	0	24.43	24.62	24.48	
20	16QAM	1	1	24.59	24.70	24.56	25.2
20	64QAM	1	1	22.94	23.14	22.96	24.2
20	256QAM	1	1	20.97	21.11	21.01	22.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.81	25.01	24.82	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.84	25.01	24.72	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.87	24.98	24.76	25.7



<FR1 n2_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.60	23.75	23.40	
20	PI/2 BPSK	1	53	23.49	23.58	23.35	23.9
20	PI/2 BPSK	1	104	23.34	23.45	23.23	
20	PI/2 BPSK	50	0	23.52	23.66	23.39	
20	PI/2 BPSK	50	28	23.60	23.65	23.39	23.9
20	PI/2 BPSK	50	56	23.41	23.53	23.27	23.9
20	PI/2 BPSK	100	0	23.49	23.54	23.34	
20	QPSK	1	1	23.66	23.71	23.53	
20	QPSK	1	53	23.51	23.56	23.37	23.9
20	QPSK	1	104	23.43	23.47	23.26	
20	QPSK	50	0	23.55	23.67	23.44	
20	QPSK	50	28	23.47	23.54	23.32	23.9
20	QPSK	50	56	23.51	23.57	23.39	23.9
20	QPSK	100	0	23.45	23.52	23.30	
20	16QAM	1	1	23.57	23.71	23.45	
20	64QAM	1	1	22.74	22.76	22.79	22.9
20	256QAM	1	1	20.95	20.97	20.83	21.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.53	23.48	23.28	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.49	23.55	23.41	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.54	23.51	23.42	



<FR1 n2_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.45	21.37	21.07	
20	PI/2 BPSK	1	53	21.27	21.19	20.92	21.6
20	PI/2 BPSK	1	104	21.25	21.22	20.91	
20	PI/2 BPSK	50	0	21.31	21.23	20.90	
20	PI/2 BPSK	50	28	21.26	21.22	20.97	21.6
20	PI/2 BPSK	50	56	21.30	21.27	20.87	21.6
20	PI/2 BPSK	100	0	21.30	21.21	20.96	
20	QPSK	1	1	21.28	21.35	20.95	
20	QPSK	1	53	21.32	21.17	20.92	21.6
20	QPSK	1	104	21.30	21.24	20.91	
20	QPSK	50	0	21.33	21.22	20.87	
20	QPSK	50	28	21.25	21.17	20.96	21.6
20	QPSK	50	56	21.29	21.21	20.97	21.6
20	QPSK	100	0	21.27	21.17	20.89	
20	16QAM	1	1	21.20	21.22	21.19	
20	64QAM	1	1	21.15	21.20	21.16	21.6
20	256QAM	1	1	21.11	21.12	21.11	21.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.25	21.23	20.90	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.31	21.26	20.89	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.30	21.20	20.92	



<FR1 n2_Ant 1_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	21.45	21.37	21.07	
20	PI/2 BPSK	1	53	21.27	21.19	20.92	21.5
20	PI/2 BPSK	1	104	21.25	21.22	20.91	
20	PI/2 BPSK	50	0	21.31	21.23	20.90	
20	PI/2 BPSK	50	28	21.26	21.22	20.97	21.5
20	PI/2 BPSK	50	56	21.30	21.27	20.87	21.5
20	PI/2 BPSK	100	0	21.30	21.21	20.96	
20	QPSK	1	1	21.28	21.35	20.95	
20	QPSK	1	53	21.32	21.17	20.92	21.5
20	QPSK	1	104	21.30	21.24	20.91	
20	QPSK	50	0	21.33	21.22	20.87	
20	QPSK	50	28	21.25	21.17	20.96	21.5
20	QPSK	50	56	21.29	21.21	20.97	21.5
20	QPSK	100	0	21.27	21.17	20.89	
20	16QAM	1	1	21.20	21.22	21.19	
20	64QAM	1	1	21.15	21.20	21.16	21.5
20	256QAM	1	1	21.11	21.12	21.11	21.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	21.25	21.23	20.90	
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	21.31	21.26	20.89	
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	21.30	21.20	20.92	



<FR1 n5_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.25	25.37	25.23	
20	PI/2 BPSK	1	53	24.96	25.06	24.98	25.7
20	PI/2 BPSK	1	104	25.29	25.36	25.26	
20	PI/2 BPSK	50	0	25.07	25.19	25.04	
20	PI/2 BPSK	50	28	25.11	25.15	25.12	25.7
20	PI/2 BPSK	50	56	24.94	25.03	24.98	
20	PI/2 BPSK	100	0	25.06	25.15	25.09	
20	QPSK	1	1	25.24	25.33	25.27	25.7
20	QPSK	1	53	25.02	25.08	25.01	
20	QPSK	1	104	25.28	25.34	25.27	
20	QPSK	50	0	24.54	24.63	24.56	25.7
20	QPSK	50	28	25.14	25.21	25.12	
20	QPSK	50	56	24.63	24.69	24.60	
20	QPSK	100	0	24.60	24.65	24.59	25.2
20	16QAM	1	1	23.90	23.97	23.91	
20	64QAM	1	1	23.06	23.12	23.07	
20	256QAM	1	1	21.05	21.12	21.03	22.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.12	25.17	25.11	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.05	25.23	25.13	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.14	25.23	25.11	25.7



<FR1 n5_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	25.25	25.37	25.23	
20	PI/2 BPSK	1	53	24.96	25.06	24.98	25.7
20	PI/2 BPSK	1	104	25.29	25.36	25.26	
20	PI/2 BPSK	50	0	25.07	25.19	25.04	
20	PI/2 BPSK	50	28	25.11	25.15	25.12	25.7
20	PI/2 BPSK	50	56	24.94	25.03	24.98	
20	PI/2 BPSK	100	0	25.06	25.15	25.09	
20	QPSK	1	1	25.24	25.33	25.27	25.7
20	QPSK	1	53	25.02	25.08	25.01	
20	QPSK	1	104	25.28	25.34	25.27	
20	QPSK	50	0	24.54	24.63	24.56	25.7
20	QPSK	50	28	25.14	25.21	25.12	
20	QPSK	50	56	24.63	24.69	24.60	
20	QPSK	100	0	24.60	24.65	24.59	25.2
20	16QAM	1	1	23.90	23.97	23.91	
20	64QAM	1	1	23.06	23.12	23.07	
20	256QAM	1	1	21.05	21.12	21.03	22.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	25.12	25.17	25.11	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	25.05	25.23	25.13	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	25.14	25.23	25.11	25.7



<FR1 n5_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.00	22.10	21.84	
20	PI/2 BPSK	1	53	21.90	21.99	21.87	22.5
20	PI/2 BPSK	1	104	21.91	21.96	21.81	
20	PI/2 BPSK	50	0	21.81	22.00	21.62	
20	PI/2 BPSK	50	28	21.79	21.95	21.67	22.5
20	PI/2 BPSK	50	56	21.87	21.97	21.73	22.5
20	PI/2 BPSK	100	0	21.73	21.87	21.64	
20	QPSK	1	1	21.93	22.02	21.85	
20	QPSK	1	53	21.89	21.98	21.83	22.5
20	QPSK	1	104	21.94	22.01	21.86	
20	QPSK	50	0	21.82	21.88	21.65	
20	QPSK	50	28	21.86	21.98	21.80	22.5
20	QPSK	50	56	21.99	22.06	21.79	22.5
20	QPSK	100	0	21.71	21.77	21.64	
20	16QAM	1	1	21.95	22.01	21.84	
20	64QAM	1	1	21.89	22.05	21.79	22.5
20	256QAM	1	1	20.59	20.70	20.70	21.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	21.83	21.96	21.72	
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	21.84	21.94	21.67	
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	21.88	21.99	21.72	



<FR1 n5_Ant 1_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)
Channel				166800	167300	167800	22.5
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.00	22.10	21.84	
20	PI/2 BPSK	1	53	21.90	21.99	21.87	22.5
20	PI/2 BPSK	1	104	21.91	21.96	21.81	
20	PI/2 BPSK	50	0	21.81	22.00	21.62	
20	PI/2 BPSK	50	28	21.79	21.95	21.67	22.5
20	PI/2 BPSK	50	56	21.87	21.97	21.73	22.5
20	PI/2 BPSK	100	0	21.73	21.87	21.64	
20	QPSK	1	1	21.93	22.02	21.85	
20	QPSK	1	53	21.89	21.98	21.83	22.5
20	QPSK	1	104	21.94	22.01	21.86	
20	QPSK	50	0	21.82	21.88	21.65	
20	QPSK	50	28	21.86	21.98	21.80	22.5
20	QPSK	50	56	21.99	22.06	21.79	22.5
20	QPSK	100	0	21.71	21.77	21.64	
20	16QAM	1	1	21.95	22.01	21.84	
20	64QAM	1	1	21.89	22.05	21.79	22.5
20	256QAM	1	1	20.59	20.70	20.70	21.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	21.83	21.96	21.72	
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	21.84	21.94	21.67	
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	21.88	21.99	21.72	



<FR1 n7_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	25.7
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	25.12	25.17	25.10	
40	PI/2 BPSK	1	108	25.01	25.16	25.04	25.2
40	PI/2 BPSK	1	214	25.00	25.14	25.04	
40	PI/2 BPSK	108	0	25.07	25.16	25.03	
40	PI/2 BPSK	108	54	25.01	25.14	25.07	25.2
40	PI/2 BPSK	108	108	25.03	25.12	24.97	
40	PI/2 BPSK	216	0	25.08	25.13	25.04	
40	QPSK	1	1	24.97	25.12	25.04	24.7
40	QPSK	1	108	25.07	25.16	25.06	
40	QPSK	1	214	25.10	25.16	25.07	
40	QPSK	108	0	24.53	24.65	24.56	25.7
40	QPSK	108	54	25.01	25.14	25.00	
40	QPSK	108	108	24.53	24.58	24.47	
40	QPSK	216	0	24.42	24.57	24.48	24.7
40	16QAM	1	1	24.54	24.68	24.56	
40	64QAM	1	1	23.10	23.19	23.09	
40	256QAM	1	1	21.02	21.11	20.95	21.2
Channel				503000	507000	511000	25.7
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	25.06	25.13	24.99	
Channel				502500	507000	511500	25.7
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	25.11	24.97	24.93	
Channel				502000	507000	512000	25.7
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	25.07	25.17	24.92	
Channel				501500	507000	512500	25.7
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	25.05	24.99	24.97	
Channel				501000	507000	513000	25.7
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.92	25.14	25.09	
Channel				500500	507000	513500	25.7
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	25.08	25.10	25.09	



<FR1 n7_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.22	22.25	22.23	
40	PI/2 BPSK	1	108	22.16	22.20	22.22	22.5
40	PI/2 BPSK	1	214	22.15	22.18	22.07	
40	PI/2 BPSK	108	0	22.14	22.15	22.07	22.5
40	PI/2 BPSK	108	54	21.91	22.10	22.10	22.5
40	PI/2 BPSK	108	108	22.10	22.11	22.09	22.5
40	PI/2 BPSK	216	0	21.96	22.15	22.04	
40	QPSK	1	1	22.12	22.22	22.21	22.5
40	QPSK	1	108	22.15	22.19	22.08	
40	QPSK	1	214	22.03	22.17	22.03	
40	QPSK	108	0	22.08	22.08	22.24	22.5
40	QPSK	108	54	22.23	22.13	21.97	22.5
40	QPSK	108	108	21.96	22.13	22.02	22.5
40	QPSK	216	0	22.11	22.20	22.11	
40	16QAM	1	1	22.15	22.20	22.06	22.5
40	64QAM	1	1	22.20	22.21	22.19	22.5
40	256QAM	1	1	21.57	21.51	21.49	22.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.21	22.23	22.22	22.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.20	22.23	22.21	22.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.21	22.24	22.21	22.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.21	22.23	22.21	22.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.20	22.23	22.21	22.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.21	22.24	22.21	22.5



<FR1 n7_Ant 5_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)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.22	22.25	22.23	
40	PI/2 BPSK	1	108	22.16	22.20	22.22	22.5
40	PI/2 BPSK	1	214	22.15	22.18	22.07	
40	PI/2 BPSK	108	0	22.14	22.15	22.07	22.5
40	PI/2 BPSK	108	54	21.91	22.10	22.10	22.5
40	PI/2 BPSK	108	108	22.10	22.11	22.09	22.5
40	PI/2 BPSK	216	0	21.96	22.15	22.04	
40	QPSK	1	1	22.12	22.22	22.21	22.5
40	QPSK	1	108	22.15	22.19	22.08	
40	QPSK	1	214	22.03	22.17	22.03	
40	QPSK	108	0	22.08	22.08	22.24	22.5
40	QPSK	108	54	22.23	22.13	21.97	22.5
40	QPSK	108	108	21.96	22.13	22.02	22.5
40	QPSK	216	0	22.11	22.20	22.11	
40	16QAM	1	1	22.15	22.20	22.06	22.5
40	64QAM	1	1	22.20	22.21	22.19	22.5
40	256QAM	1	1	21.57	21.51	21.49	22.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.21	22.23	22.22	22.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.20	22.23	22.21	22.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.21	22.24	22.21	22.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.21	22.23	22.21	22.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.20	22.23	22.21	22.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.21	22.24	22.21	22.5

**<FR1 n12_Ant 1_DSI 0 / DSI 1 (WLAN OFF)>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	25.02	25.07	25.00	
15	PI/2 BPSK	1	40	24.94	24.99	24.90	25.7
15	PI/2 BPSK	1	77	24.92	25.05	24.96	
15	PI/2 BPSK	36	0	24.71	24.90	24.70	25.2
15	PI/2 BPSK	36	22	24.70	24.84	24.67	25.7
15	PI/2 BPSK	36	43	24.76	24.85	24.77	25.2
15	PI/2 BPSK	75	0	24.86	24.92	24.80	
15	QPSK	1	1	24.90	25.01	24.94	
15	QPSK	1	40	24.70	24.85	24.74	25.7
15	QPSK	1	77	25.00	25.06	24.90	
15	QPSK	36	0	24.54	24.59	24.43	24.7
15	QPSK	36	22	24.81	24.88	24.75	25.7
15	QPSK	36	43	24.53	24.65	24.48	24.7
15	QPSK	75	0	24.54	24.66	24.51	
15	16QAM	1	1	24.55	24.66	24.58	24.7
15	64QAM	1	1	23.10	23.18	23.06	23.2
15	256QAM	1	1	21.02	21.13	21.06	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.86	24.89	24.87	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.82	24.87	24.80	25.7

<FR1 n12_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	25.02	25.07	25.00	
15	PI/2 BPSK	1	40	24.94	24.99	24.90	25.7
15	PI/2 BPSK	1	77	24.92	25.05	24.96	
15	PI/2 BPSK	36	0	24.71	24.90	24.70	25.2
15	PI/2 BPSK	36	22	24.70	24.84	24.67	25.7
15	PI/2 BPSK	36	43	24.76	24.85	24.77	25.2
15	PI/2 BPSK	75	0	24.86	24.92	24.80	
15	QPSK	1	1	24.90	25.01	24.94	
15	QPSK	1	40	24.70	24.85	24.74	25.7
15	QPSK	1	77	25.00	25.06	24.90	
15	QPSK	36	0	24.54	24.59	24.43	24.7
15	QPSK	36	22	24.81	24.88	24.75	25.7
15	QPSK	36	43	24.53	24.65	24.48	24.7
15	QPSK	75	0	24.54	24.66	24.51	
15	16QAM	1	1	24.55	24.66	24.58	24.7
15	64QAM	1	1	23.10	23.18	23.06	23.2
15	256QAM	1	1	21.02	21.13	21.06	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.86	24.89	24.87	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.82	24.87	24.80	25.7

<FR1 n12_Ant 1_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	25.02	25.07	25.00	
15	PI/2 BPSK	1	40	24.94	24.99	24.90	25.7
15	PI/2 BPSK	1	77	24.92	25.05	24.96	
15	PI/2 BPSK	36	0	24.71	24.90	24.70	
15	PI/2 BPSK	36	22	24.70	24.84	24.67	25.2
15	PI/2 BPSK	36	43	24.76	24.85	24.77	25.7
15	PI/2 BPSK	75	0	24.86	24.92	24.80	
15	QPSK	1	1	24.90	25.01	24.94	
15	QPSK	1	40	24.70	24.85	24.74	25.7
15	QPSK	1	77	25.00	25.06	24.90	
15	QPSK	36	0	24.54	24.59	24.43	
15	QPSK	36	22	24.81	24.88	24.75	24.7
15	QPSK	36	43	24.53	24.65	24.48	25.7
15	QPSK	75	0	24.54	24.66	24.51	
15	16QAM	1	1	24.55	24.66	24.58	
15	64QAM	1	1	23.10	23.18	23.06	24.7
15	256QAM	1	1	21.02	21.13	21.06	23.2
Channel				140800	141500	142200	21.2
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.86	24.89	24.87	
Channel				140300	141500	142700	25.7
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.82	24.87	24.80	

<FR1 n13_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		25.60		
10	PI/2 BPSK	1	26		25.04		25.7
10	PI/2 BPSK	1	50		25.37		
10	PI/2 BPSK	25	0		25.18		
10	PI/2 BPSK	25	14		25.15		25.2
10	PI/2 BPSK	25	27		25.12		25.7
10	PI/2 BPSK	50	0		25.18		
10	QPSK	1	1		25.55		
10	QPSK	1	26		25.01		25.7
10	QPSK	1	50		25.35		
10	QPSK	25	0		24.68		
10	QPSK	25	14		25.03		24.7
10	QPSK	25	27		24.68		25.7
10	QPSK	50	0		24.69		
10	16QAM	1	1		24.66		
10	64QAM	1	1		23.08		24.7
10	256QAM	1	1		21.10		23.2
Channel				155900	156400	156900	21.2
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	25.53	25.57	25.56	



<FR1 n13_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		25.60		25.7
10	PI/2 BPSK	1	26		25.04		
10	PI/2 BPSK	1	50		25.37		
10	PI/2 BPSK	25	0		25.18		25.2
10	PI/2 BPSK	25	14		25.15		25.7
10	PI/2 BPSK	25	27		25.12		25.2
10	PI/2 BPSK	50	0		25.18		
10	QPSK	1	1		25.55		25.7
10	QPSK	1	26		25.01		
10	QPSK	1	50		25.35		
10	QPSK	25	0		24.68		24.7
10	QPSK	25	14		25.03		25.7
10	QPSK	25	27		24.68		24.7
10	QPSK	50	0		24.69		
10	16QAM	1	1		24.66		24.7
10	64QAM	1	1		23.08		23.2
10	256QAM	1	1		21.10		21.2
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	25.53	25.57	25.56	25.7

<FR1 n13_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.62		24.8
10	PI/2 BPSK	1	26		24.48		
10	PI/2 BPSK	1	50		24.43		
10	PI/2 BPSK	25	0		24.51		24.8
10	PI/2 BPSK	25	14		24.50		24.8
10	PI/2 BPSK	25	27		24.42		24.8
10	PI/2 BPSK	50	0		24.46		
10	QPSK	1	1		24.60		24.8
10	QPSK	1	26		24.51		
10	QPSK	1	50		24.42		
10	QPSK	25	0		24.47		24.8
10	QPSK	25	14		24.52		24.8
10	QPSK	25	27		24.48		24.8
10	QPSK	50	0		24.45		
10	16QAM	1	1		24.61		24.8
10	64QAM	1	1		24.06		24.8
10	256QAM	1	1		21.89		22.8
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	24.50	24.46	24.44	24.8



<FR1 n13_Ant 1_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)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.62		24.8
10	PI/2 BPSK	1	26		24.48		
10	PI/2 BPSK	1	50		24.43		
10	PI/2 BPSK	25	0		24.51		24.8
10	PI/2 BPSK	25	14		24.50		24.8
10	PI/2 BPSK	25	27		24.42		24.8
10	PI/2 BPSK	50	0		24.46		
10	QPSK	1	1		24.60		24.8
10	QPSK	1	26		24.51		
10	QPSK	1	50		24.42		
10	QPSK	25	0		24.47		24.8
10	QPSK	25	14		24.52		24.8
10	QPSK	25	27		24.48		24.8
10	QPSK	50	0		24.45		
10	16QAM	1	1		24.61		24.8
10	64QAM	1	1		24.06		24.8
10	256QAM	1	1		21.89		22.8
Channel				155900	156400	156900	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	PI/2 BPSK	1	1	24.50	24.46	24.44	24.8

<FR1 n14_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		25.69		25.7
10	PI/2 BPSK	1	26		25.02		
10	PI/2 BPSK	1	50		25.41		
10	PI/2 BPSK	25	0		25.13		25.2
10	PI/2 BPSK	25	14		25.10		25.7
10	PI/2 BPSK	25	27		25.12		25.2
10	PI/2 BPSK	50	0		25.12		
10	QPSK	1	1		25.65		25.7
10	QPSK	1	26		25.05		
10	QPSK	1	50		25.36		
10	QPSK	25	0		24.67		24.7
10	QPSK	25	14		25.07		25.7
10	QPSK	25	27		24.67		24.7
10	QPSK	50	0		24.68		
10	16QAM	1	1		24.69		24.7
10	64QAM	1	1		23.17		23.2
10	256QAM	1	1		21.01		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	25.51	25.62	25.57	25.7



<FR1 n14_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		25.69		
10	PI/2 BPSK	1	26		25.02		25.7
10	PI/2 BPSK	1	50		25.41		
10	PI/2 BPSK	25	0		25.13		
10	PI/2 BPSK	25	14		25.10		25.2
10	PI/2 BPSK	25	27		25.12		25.7
10	PI/2 BPSK	50	0		25.12		
10	QPSK	1	1		25.65		
10	QPSK	1	26		25.05		25.7
10	QPSK	1	50		25.36		
10	QPSK	25	0		24.67		
10	QPSK	25	14		25.07		24.7
10	QPSK	25	27		24.67		25.7
10	QPSK	50	0		24.68		
10	16QAM	1	1		24.69		
10	64QAM	1	1		23.17		24.7
10	256QAM	1	1		21.01		23.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	25.51	25.62	25.57	

<FR1 n14_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.74		
10	PI/2 BPSK	1	26		24.32		24.8
10	PI/2 BPSK	1	50		24.26		
10	PI/2 BPSK	25	0		24.39		
10	PI/2 BPSK	25	14		24.20		24.8
10	PI/2 BPSK	25	27		24.30		24.8
10	PI/2 BPSK	50	0		24.35		
10	QPSK	1	1		24.43		
10	QPSK	1	26		24.38		24.8
10	QPSK	1	50		24.27		
10	QPSK	25	0		24.30		
10	QPSK	25	14		24.40		24.8
10	QPSK	25	27		24.29		24.8
10	QPSK	50	0		24.27		
10	16QAM	1	1		24.70		
10	64QAM	1	1		24.18		24.8
10	256QAM	1	1		21.84		22.8
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.52	24.58	24.53	



<FR1 n14_Ant 1_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)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.74		24.8
10	PI/2 BPSK	1	26		24.32		
10	PI/2 BPSK	1	50		24.26		
10	PI/2 BPSK	25	0		24.39		24.8
10	PI/2 BPSK	25	14		24.20		24.8
10	PI/2 BPSK	25	27		24.30		24.8
10	PI/2 BPSK	50	0		24.35		
10	QPSK	1	1		24.43		24.8
10	QPSK	1	26		24.38		
10	QPSK	1	50		24.27		
10	QPSK	25	0		24.30		24.8
10	QPSK	25	14		24.40		24.8
10	QPSK	25	27		24.29		24.8
10	QPSK	50	0		24.27		
10	16QAM	1	1		24.70		24.8
10	64QAM	1	1		24.18		24.8
10	256QAM	1	1		21.84		22.8
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.52	24.58	24.53	24.8



<FR1 n25_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.7
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	25.20	25.31	25.26	
40	PI/2 BPSK	1	108	24.99	25.16	25.07	25.2
40	PI/2 BPSK	1	214	24.86	25.03	24.91	
40	PI/2 BPSK	108	0	24.64	25.06	24.66	
40	PI/2 BPSK	108	54	24.91	24.80	24.94	25.2
40	PI/2 BPSK	108	108	24.40	24.54	24.40	
40	PI/2 BPSK	216	0	24.36	24.57	24.50	
40	QPSK	1	1	25.13	25.30	25.19	24.7
40	QPSK	1	108	25.00	25.14	25.05	
40	QPSK	1	214	24.89	25.04	24.99	
40	QPSK	108	0	24.15	24.27	24.17	25.7
40	QPSK	108	54	24.96	25.10	24.95	
40	QPSK	108	108	23.90	24.07	24.02	
40	QPSK	216	0	23.98	24.14	24.01	24.7
40	16QAM	1	1	24.25	24.41	24.32	
40	64QAM	1	1	22.82	22.98	22.91	
40	256QAM	1	1	20.89	21.03	20.94	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	25.02	25.20	25.14	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	25.11	25.26	25.06	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	25.01	25.15	25.15	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	25.06	25.29	25.09	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	25.09	25.30	25.17	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	25.17	25.18	25.14	



<FR1 n25_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	23.9
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.65	23.70	23.75	
40	PI/2 BPSK	1	108	23.48	23.55	23.59	23.9
40	PI/2 BPSK	1	214	23.44	23.48	23.40	
40	PI/2 BPSK	108	0	23.56	23.65	23.67	
40	PI/2 BPSK	108	54	23.40	23.53	23.49	23.9
40	PI/2 BPSK	108	108	23.40	23.50	23.42	23.9
40	PI/2 BPSK	216	0	23.45	23.59	23.55	
40	QPSK	1	1	23.60	23.68	23.55	
40	QPSK	1	108	23.50	23.64	23.59	23.9
40	QPSK	1	214	23.47	23.54	23.42	
40	QPSK	108	0	23.34	23.44	23.35	
40	QPSK	108	54	23.39	23.50	23.42	23.9
40	QPSK	108	108	23.49	23.62	23.49	23.9
40	QPSK	216	0	23.54	23.58	23.52	
40	16QAM	1	1	23.56	23.66	23.54	
40	64QAM	1	1	22.33	22.38	22.30	22.8
40	256QAM	1	1	20.34	20.43	20.45	20.8
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.51	23.55	23.60	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.45	23.52	23.60	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.53	23.60	23.58	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.53	23.51	23.60	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.50	23.50	23.63	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.49	23.52	23.65	



<FR1 n25_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	21.6
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.22	21.36	21.29	
40	PI/2 BPSK	1	108	21.12	21.24	21.12	21.6
40	PI/2 BPSK	1	214	21.03	21.17	21.13	
40	PI/2 BPSK	108	0	21.03	21.26	21.09	
40	PI/2 BPSK	108	54	21.05	21.21	21.19	21.6
40	PI/2 BPSK	108	108	21.02	21.20	21.11	21.6
40	PI/2 BPSK	216	0	21.07	21.22	21.12	
40	QPSK	1	1	21.12	21.17	21.10	
40	QPSK	1	108	21.03	21.26	21.11	21.6
40	QPSK	1	214	21.02	21.17	21.18	
40	QPSK	108	0	21.11	21.26	21.12	
40	QPSK	108	54	21.12	21.17	21.11	21.6
40	QPSK	108	108	21.03	21.26	21.18	21.6
40	QPSK	216	0	21.03	21.22	21.17	
40	16QAM	1	1	21.04	21.23	21.12	
40	64QAM	1	1	21.11	21.30	21.18	21.6
40	256QAM	1	1	21.05	21.07	21.03	21.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.12	21.24	21.09	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.03	21.20	21.16	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.09	21.18	21.16	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.05	21.16	21.14	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.00	21.05	21.13	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.00	21.02	21.11	



<FR1 n25_Ant 1_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)
Channel				374000	376500	379000	21.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.22	21.36	21.29	
40	PI/2 BPSK	1	108	21.12	21.24	21.12	21.5
40	PI/2 BPSK	1	214	21.03	21.17	21.13	
40	PI/2 BPSK	108	0	21.03	21.26	21.09	
40	PI/2 BPSK	108	54	21.05	21.21	21.19	21.5
40	PI/2 BPSK	108	108	21.02	21.20	21.11	21.5
40	PI/2 BPSK	216	0	21.07	21.22	21.12	
40	QPSK	1	1	21.12	21.17	21.10	
40	QPSK	1	108	21.03	21.26	21.11	21.5
40	QPSK	1	214	21.02	21.17	21.18	
40	QPSK	108	0	21.11	21.26	21.12	
40	QPSK	108	54	21.12	21.17	21.11	21.5
40	QPSK	108	108	21.03	21.26	21.18	21.5
40	QPSK	216	0	21.03	21.22	21.17	
40	16QAM	1	1	21.04	21.23	21.12	
40	64QAM	1	1	21.11	21.30	21.18	21.5
40	256QAM	1	1	21.05	21.07	21.03	21.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.12	21.24	21.09	
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.03	21.20	21.16	
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.09	21.18	21.16	
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.05	21.16	21.14	
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.00	21.05	21.13	
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.00	21.02	21.11	



<FR1 n26_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.75	24.74	24.87	
20	PI/2 BPSK	1	53	24.36	24.43	24.17	25.7
20	PI/2 BPSK	1	104	24.28	24.38	24.12	
20	PI/2 BPSK	50	0	24.42	24.44	24.46	
20	PI/2 BPSK	50	28	24.30	24.39	24.16	25.7
20	PI/2 BPSK	50	56	24.37	24.45	24.17	25.7
20	PI/2 BPSK	100	0	24.35	24.43	24.17	
20	QPSK	1	1	24.59	24.65	24.39	25.7
20	QPSK	1	53	24.35	24.42	24.15	
20	QPSK	1	104	24.34	24.38	24.06	
20	QPSK	50	0	23.95	23.99	23.76	25.7
20	QPSK	50	28	24.36	24.44	24.20	25.7
20	QPSK	50	56	23.91	23.97	23.74	25.7
20	QPSK	100	0	23.90	23.95	23.74	
20	16QAM	1	1	23.85	23.93	23.62	25.2
20	64QAM	1	1	22.34	22.42	22.23	24.2
20	256QAM	1	1	20.39	20.43	20.20	22.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.55	24.62	24.25	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.60	24.65	24.29	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.48	24.53	24.44	25.7



<FR1 n26_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.75	24.74	24.87	
20	PI/2 BPSK	1	53	24.36	24.43	24.17	25.7
20	PI/2 BPSK	1	104	24.28	24.38	24.12	
20	PI/2 BPSK	50	0	24.42	24.44	24.46	
20	PI/2 BPSK	50	28	24.30	24.39	24.16	25.7
20	PI/2 BPSK	50	56	24.37	24.45	24.17	25.7
20	PI/2 BPSK	100	0	24.35	24.43	24.17	
20	QPSK	1	1	24.59	24.65	24.39	25.7
20	QPSK	1	53	24.35	24.42	24.15	
20	QPSK	1	104	24.34	24.38	24.06	
20	QPSK	50	0	23.95	23.99	23.76	25.7
20	QPSK	50	28	24.36	24.44	24.20	25.7
20	QPSK	50	56	23.91	23.97	23.74	25.7
20	QPSK	100	0	23.90	23.95	23.74	
20	16QAM	1	1	23.85	23.93	23.62	25.2
20	64QAM	1	1	22.34	22.42	22.23	24.2
20	256QAM	1	1	20.39	20.43	20.20	22.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.55	24.62	24.25	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.60	24.65	24.29	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.48	24.53	24.44	25.7



<FR1 n26_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	22.5
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.12	22.20	22.00	
20	PI/2 BPSK	1	53	22.10	22.18	21.98	22.5
20	PI/2 BPSK	1	104	22.07	22.15	21.95	
20	PI/2 BPSK	50	0	21.94	22.10	21.82	
20	PI/2 BPSK	50	28	21.97	22.05	21.85	22.5
20	PI/2 BPSK	50	56	22.00	22.08	21.88	22.5
20	PI/2 BPSK	100	0	21.89	21.97	21.77	
20	QPSK	1	1	22.07	22.15	21.95	
20	QPSK	1	53	22.05	22.13	21.93	22.5
20	QPSK	1	104	22.10	22.18	21.98	
20	QPSK	50	0	21.92	22.00	21.80	
20	QPSK	50	28	22.06	22.14	21.94	22.5
20	QPSK	50	56	22.09	22.17	21.97	22.5
20	QPSK	100	0	21.89	21.97	21.77	
20	16QAM	1	1	22.10	22.18	21.98	
20	64QAM	1	1	22.07	22.15	21.95	22.5
20	256QAM	1	1	20.77	20.85	20.65	21.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.93	21.98	22.00	
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.92	22.08	21.98	
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	22.08	22.04	21.98	



<FR1 n26_Ant 1_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)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.12	22.20	22.00	
20	PI/2 BPSK	1	53	22.10	22.18	21.98	22.5
20	PI/2 BPSK	1	104	22.07	22.15	21.95	
20	PI/2 BPSK	50	0	21.94	22.10	21.82	
20	PI/2 BPSK	50	28	21.97	22.05	21.85	22.5
20	PI/2 BPSK	50	56	22.00	22.08	21.88	22.5
20	PI/2 BPSK	100	0	21.89	21.97	21.77	
20	QPSK	1	1	22.07	22.15	21.95	
20	QPSK	1	53	22.05	22.13	21.93	22.5
20	QPSK	1	104	22.10	22.18	21.98	
20	QPSK	50	0	21.92	22.00	21.80	
20	QPSK	50	28	22.06	22.14	21.94	22.5
20	QPSK	50	56	22.09	22.17	21.97	22.5
20	QPSK	100	0	21.89	21.97	21.77	
20	16QAM	1	1	22.10	22.18	21.98	
20	64QAM	1	1	22.07	22.15	21.95	22.5
20	256QAM	1	1	20.77	20.85	20.65	21.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.93	21.98	22.00	
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.92	22.08	21.98	
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	22.08	22.04	21.98	



<FR1 n30_Ant 5_DSI 0 / 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.97		25.7
10	PI/2 BPSK	1	26		24.96		
10	PI/2 BPSK	1	50		24.91		
10	PI/2 BPSK	25	0		24.89		25.2
10	PI/2 BPSK	25	14		24.88		25.7
10	PI/2 BPSK	25	27		24.88		25.2
10	PI/2 BPSK	50	0		24.81		
10	QPSK	1	1		24.79		25.7
10	QPSK	1	26		24.95		
10	QPSK	1	50		24.92		
10	QPSK	25	0		24.45		24.7
10	QPSK	25	14		24.91		25.7
10	QPSK	25	27		24.55		24.7
10	QPSK	50	0		24.52		
10	16QAM	1	1		24.56		24.7
10	64QAM	1	1		23.13		23.2
10	256QAM	1	1		20.97		21.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	24.87	24.91	24.85	25.7

<FR1 n30_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		22.5
10	PI/2 BPSK	1	26		22.42		
10	PI/2 BPSK	1	50		22.40		
10	PI/2 BPSK	25	0		22.43		22.5
10	PI/2 BPSK	25	14		22.38		22.5
10	PI/2 BPSK	25	27		22.35		22.5
10	PI/2 BPSK	50	0		22.40		
10	QPSK	1	1		22.43		22.5
10	QPSK	1	26		22.40		
10	QPSK	1	50		22.41		
10	QPSK	25	0		22.42		22.5
10	QPSK	25	14		22.35		22.5
10	QPSK	25	27		22.33		22.5
10	QPSK	50	0		22.39		
10	16QAM	1	1		22.43		22.5
10	64QAM	1	1		22.40		22.5
10	256QAM	1	1		21.30		22.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.40	22.44	22.43	22.5



<FR1 n30_Ant 5_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)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		22.5
10	PI/2 BPSK	1	26		22.42		
10	PI/2 BPSK	1	50		22.40		
10	PI/2 BPSK	25	0		22.43		22.5
10	PI/2 BPSK	25	14		22.38		22.5
10	PI/2 BPSK	25	27		22.35		22.5
10	PI/2 BPSK	50	0		22.40		
10	QPSK	1	1		22.43		22.5
10	QPSK	1	26		22.40		
10	QPSK	1	50		22.41		
10	QPSK	25	0		22.42		22.5
10	QPSK	25	14		22.35		22.5
10	QPSK	25	27		22.33		22.5
10	QPSK	50	0		22.39		
10	16QAM	1	1		22.43		22.5
10	64QAM	1	1		22.40		22.5
10	256QAM	1	1		21.30		22.5
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.40	22.44	22.43	22.5



<FR1 n66_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	25.7
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	25.04	25.30	25.02	
40	PI/2 BPSK	1	108	24.94	25.01	24.92	25.7
40	PI/2 BPSK	1	214	24.85	24.99	24.80	
40	PI/2 BPSK	108	0	24.98	25.08	24.91	
40	PI/2 BPSK	108	54	24.90	25.05	24.88	25.7
40	PI/2 BPSK	108	108	24.90	25.02	24.90	25.7
40	PI/2 BPSK	216	0	24.97	25.05	24.86	
40	QPSK	1	1	24.96	25.03	24.93	
40	QPSK	1	108	24.94	25.03	24.90	25.7
40	QPSK	1	214	24.89	25.00	24.89	
40	QPSK	108	0	24.54	24.65	24.51	
40	QPSK	108	54	24.86	25.03	24.88	25.7
40	QPSK	108	108	24.59	24.67	24.52	25.7
40	QPSK	216	0	24.60	24.70	24.61	
40	16QAM	1	1	24.51	24.68	24.56	
40	64QAM	1	1	23.11	23.19	23.08	24.2
40	256QAM	1	1	21.07	21.14	21.03	22.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.94	24.95	24.95	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.98	25.07	25.01	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	25.03	25.06	24.95	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.86	24.92	24.93	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.98	25.09	24.86	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.84	25.03	24.94	



<FR1 n66_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	22.8
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.58	22.61	22.54	
40	PI/2 BPSK	1	108	22.30	22.44	22.37	22.8
40	PI/2 BPSK	1	214	22.40	22.53	22.46	
40	PI/2 BPSK	108	0	22.43	22.57	22.48	
40	PI/2 BPSK	108	54	22.41	22.48	22.34	22.8
40	PI/2 BPSK	108	108	22.38	22.51	22.37	22.8
40	PI/2 BPSK	216	0	22.47	22.53	22.45	
40	QPSK	1	1	22.41	22.48	22.35	
40	QPSK	1	108	22.33	22.44	22.36	22.8
40	QPSK	1	214	22.51	22.56	22.51	
40	QPSK	108	0	22.46	22.51	22.37	
40	QPSK	108	54	22.36	22.48	22.34	22.8
40	QPSK	108	108	22.39	22.53	22.44	22.8
40	QPSK	216	0	22.40	22.51	22.43	
40	16QAM	1	1	22.55	22.60	22.56	
40	64QAM	1	1	22.34	22.39	22.32	22.8
40	256QAM	1	1	20.43	20.54	20.47	22.2
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.44	22.50	22.42	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.44	22.47	22.42	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.53	22.50	22.50	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.50	22.55	22.48	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.45	22.52	22.49	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.48	22.57	22.51	



<FR1 n66_Ant 1_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	20.3
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.62	19.65	19.60	
40	PI/2 BPSK	1	108	19.52	19.55	19.48	20.3
40	PI/2 BPSK	1	214	19.42	19.46	19.40	
40	PI/2 BPSK	108	0	19.49	19.56	19.49	
40	PI/2 BPSK	108	54	19.51	19.50	19.45	20.3
40	PI/2 BPSK	108	108	19.43	19.48	19.47	20.3
40	PI/2 BPSK	216	0	19.47	19.52	19.50	
40	QPSK	1	1	19.50	19.55	19.46	
40	QPSK	1	108	19.48	19.50	19.44	20.3
40	QPSK	1	214	19.48	19.46	19.45	
40	QPSK	108	0	19.45	19.46	19.50	
40	QPSK	108	54	19.43	19.52	19.44	20.3
40	QPSK	108	108	19.47	19.52	19.41	20.3
40	QPSK	216	0	19.49	19.50	19.44	
40	16QAM	1	1	19.48	19.55	19.42	
40	64QAM	1	1	19.49	19.45	19.50	20.3
40	256QAM	1	1	19.46	19.48	19.48	20.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.50	19.55	19.40	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.51	19.47	19.41	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.42	19.54	19.40	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.52	19.55	19.48	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.52	19.47	19.50	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.50	19.55	19.50	



<FR1 n66_Ant 1_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)
Channel				346000	349000	352000	20.3
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.62	19.65	19.60	
40	PI/2 BPSK	1	108	19.52	19.55	19.48	20.3
40	PI/2 BPSK	1	214	19.42	19.46	19.40	
40	PI/2 BPSK	108	0	19.49	19.56	19.49	
40	PI/2 BPSK	108	54	19.51	19.50	19.45	20.3
40	PI/2 BPSK	108	108	19.43	19.48	19.47	20.3
40	PI/2 BPSK	216	0	19.47	19.52	19.50	
40	QPSK	1	1	19.50	19.55	19.46	
40	QPSK	1	108	19.48	19.50	19.44	20.3
40	QPSK	1	214	19.48	19.46	19.45	
40	QPSK	108	0	19.45	19.46	19.50	
40	QPSK	108	54	19.43	19.52	19.44	20.3
40	QPSK	108	108	19.47	19.52	19.41	20.3
40	QPSK	216	0	19.49	19.50	19.44	
40	16QAM	1	1	19.48	19.55	19.42	
40	64QAM	1	1	19.49	19.45	19.50	20.3
40	256QAM	1	1	19.46	19.48	19.48	20.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.50	19.55	19.40	
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.51	19.47	19.41	
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.42	19.54	19.40	
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.52	19.55	19.48	
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.52	19.47	19.50	
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.50	19.55	19.50	



<FR1 n71_Ant 1_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	25.0
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.17	24.30	24.13	
20	PI/2 BPSK	1	53	24.00	24.13	23.92	25.0
20	PI/2 BPSK	1	104	23.81	24.03	23.85	
20	PI/2 BPSK	50	0	23.94	24.08	23.85	
20	PI/2 BPSK	50	28	23.90	24.07	23.84	25.0
20	PI/2 BPSK	50	56	23.80	24.03	23.83	25.0
20	PI/2 BPSK	100	0	23.85	23.99	23.72	
20	QPSK	1	1	23.95	24.16	23.89	
20	QPSK	1	53	23.96	24.11	23.93	25.0
20	QPSK	1	104	23.87	24.06	23.86	
20	QPSK	50	0	23.66	23.82	23.59	
20	QPSK	50	28	23.93	24.09	23.86	25.0
20	QPSK	50	56	23.68	23.86	23.68	25.0
20	QPSK	100	0	23.66	23.81	23.58	
20	16QAM	1	1	23.76	23.90	23.63	
20	64QAM	1	1	22.26	22.44	22.18	23.5
20	256QAM	1	1	20.28	20.43	20.23	21.5
Channel				134100	136100	138100	25.0
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.10	24.11	24.08	
Channel				133600	136100	138600	25.0
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.98	24.13	24.01	
Channel				133100	136100	139100	25.0
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.07	24.12	24.04	



<FR1 n71_Ant 1_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.17	24.30	24.13	
20	PI/2 BPSK	1	53	24.00	24.13	23.92	25.0
20	PI/2 BPSK	1	104	23.81	24.03	23.85	
20	PI/2 BPSK	50	0	23.94	24.08	23.85	
20	PI/2 BPSK	50	28	23.90	24.07	23.84	25.0
20	PI/2 BPSK	50	56	23.80	24.03	23.83	25.0
20	PI/2 BPSK	100	0	23.85	23.99	23.72	
20	QPSK	1	1	23.95	24.16	23.89	
20	QPSK	1	53	23.96	24.11	23.93	25.0
20	QPSK	1	104	23.87	24.06	23.86	
20	QPSK	50	0	23.66	23.82	23.59	
20	QPSK	50	28	23.93	24.09	23.86	25.0
20	QPSK	50	56	23.68	23.86	23.68	25.0
20	QPSK	100	0	23.66	23.81	23.58	
20	16QAM	1	1	23.76	23.90	23.63	
20	64QAM	1	1	22.26	22.44	22.18	23.5
20	256QAM	1	1	20.28	20.43	20.23	21.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.10	24.11	24.08	
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.98	24.13	24.01	
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.07	24.12	24.04	



<FR1 n71_Ant 1_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)
Channel				134600	136100	137600	25.0
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.17	24.30	24.13	
20	PI/2 BPSK	1	53	24.00	24.13	23.92	25.0
20	PI/2 BPSK	1	104	23.81	24.03	23.85	
20	PI/2 BPSK	50	0	23.94	24.08	23.85	
20	PI/2 BPSK	50	28	23.90	24.07	23.84	25.0
20	PI/2 BPSK	50	56	23.80	24.03	23.83	25.0
20	PI/2 BPSK	100	0	23.85	23.99	23.72	
20	QPSK	1	1	23.95	24.16	23.89	
20	QPSK	1	53	23.96	24.11	23.93	25.0
20	QPSK	1	104	23.87	24.06	23.86	
20	QPSK	50	0	23.66	23.82	23.59	
20	QPSK	50	28	23.93	24.09	23.86	25.0
20	QPSK	50	56	23.68	23.86	23.68	25.0
20	QPSK	100	0	23.66	23.81	23.58	
20	16QAM	1	1	23.76	23.90	23.63	
20	64QAM	1	1	22.26	22.44	22.18	23.5
20	256QAM	1	1	20.28	20.43	20.23	21.5
Channel				134100	136100	138100	25.0
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.10	24.11	24.08	
Channel				133600	136100	138600	25.0
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.98	24.13	24.01	
Channel				133100	136100	139100	25.0
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.07	24.12	24.04	



<FR1 n38_Ant 5_DSI 0 / 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	25.7
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	25.11	25.20	25.13	
40	PI/2 BPSK	1	53	24.87	25.00	24.86	25.2
40	PI/2 BPSK	1	104	25.04	25.16	25.01	
40	PI/2 BPSK	50	0	24.12	25.07	24.17	
40	PI/2 BPSK	50	28	24.93	25.05	24.91	25.2
40	PI/2 BPSK	50	56	24.35	24.45	24.32	
40	PI/2 BPSK	100	0	24.14	24.28	24.19	
40	QPSK	1	1	25.09	25.18	25.11	25.7
40	QPSK	1	53	24.90	25.08	24.95	
40	QPSK	1	104	24.99	25.17	25.00	
40	QPSK	50	0	23.69	23.78	23.70	24.7
40	QPSK	50	28	24.86	25.04	24.88	25.7
40	QPSK	50	56	23.86	23.98	23.84	24.7
40	QPSK	100	0	23.73	23.87	23.72	
40	16QAM	1	1	24.54	24.69	24.56	
40	64QAM	1	1	23.02	23.18	23.08	23.2
40	256QAM	1	1	21.04	21.18	21.05	21.2
Channel				517000	519000	521000	25.7
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	25.08	25.03	25.13	
Channel				516000	519000	522000	25.7
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	25.09	25.12	25.12	
Channel				515500	519000	522500	25.7
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.97	25.18	24.94	
Channel				515000	519000	523000	25.7
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.95	25.11	24.94	



<FR1 n38_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	23.5
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	23.23	23.34	23.25	
40	PI/2 BPSK	1	53	23.16	23.18	23.11	23.5
40	PI/2 BPSK	1	104	23.23	23.26	23.19	
40	PI/2 BPSK	50	0	23.01	23.01	22.95	
40	PI/2 BPSK	50	28	23.24	23.30	23.30	23.5
40	PI/2 BPSK	50	56	23.12	23.14	23.15	23.5
40	PI/2 BPSK	100	0	23.10	23.18	23.10	
40	QPSK	1	1	23.25	23.30	23.30	
40	QPSK	1	53	23.25	23.25	23.27	23.5
40	QPSK	1	104	23.14	23.18	23.12	
40	QPSK	50	0	23.04	23.07	23.04	
40	QPSK	50	28	23.09	23.07	23.06	23.5
40	QPSK	50	56	22.98	23.07	23.01	23.5
40	QPSK	100	0	23.15	23.11	23.12	
40	16QAM	1	1	23.02	23.11	23.06	
40	64QAM	1	1	22.93	23.03	23.00	23.5
40	256QAM	1	1	20.87	20.88	20.82	21.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	23.08	23.19	23.12	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.03	23.13	23.15	
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.06	23.16	23.11	
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.06	23.15	23.15	



<FR1 n38_Ant 5_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)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	21.61	21.62	21.64	
40	PI/2 BPSK	1	53	21.46	21.48	21.47	22.0
40	PI/2 BPSK	1	104	21.44	21.51	21.54	
40	PI/2 BPSK	50	0	21.49	21.45	21.55	
40	PI/2 BPSK	50	28	21.51	21.52	21.50	22.0
40	PI/2 BPSK	50	56	21.47	21.44	21.53	22.0
40	PI/2 BPSK	100	0	21.50	21.51	21.51	
40	QPSK	1	1	21.45	21.51	21.52	
40	QPSK	1	53	21.42	21.50	21.51	22.0
40	QPSK	1	104	21.44	21.51	21.50	
40	QPSK	50	0	21.46	21.43	21.47	
40	QPSK	50	28	21.49	21.42	21.49	22.0
40	QPSK	50	56	21.50	21.42	21.51	22.0
40	QPSK	100	0	21.44	21.47	21.49	
40	16QAM	1	1	21.42	21.44	21.54	
40	64QAM	1	1	21.43	21.44	21.47	22.0
40	256QAM	1	1	21.49	21.43	21.50	22.0
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.42	21.48	21.44	
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.30	21.31	21.28	
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.25	21.34	21.29	
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.30	21.38	21.32	



<FR1 n41_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.29	25.31	25.21	
100	PI/2 BPSK	1	137	25.14	25.16	25.06	25.7
100	PI/2 BPSK	1	271	25.08	25.25	25.06	
100	PI/2 BPSK	135	0	24.96	24.98	24.88	
100	PI/2 BPSK	135	69	25.12	25.30	25.04	25.7
100	PI/2 BPSK	135	138	25.08	25.14	25.10	25.7
100	PI/2 BPSK	270	0	25.12	25.14	25.04	
100	QPSK	1	1	25.30	25.30	25.22	
100	QPSK	1	137	25.26	25.28	25.18	25.7
100	QPSK	1	271	25.10	25.13	25.12	
100	QPSK	135	0	24.48	24.50	24.40	
100	QPSK	135	69	25.13	25.15	25.05	25.7
100	QPSK	135	138	24.59	24.81	24.51	25.7
100	QPSK	270	0	24.67	24.69	24.59	
100	16QAM	1	1	24.62	24.64	24.54	
100	64QAM	1	1	23.10	23.12	23.02	24.7
100	256QAM	1	1	21.04	21.06	20.96	22.7
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.83	24.84	
Channel				507204	518598	529998	25.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.95	24.84	24.99	
Channel				506202	518598	531000	25.7
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.81	24.87	24.89	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.85	24.83	24.93	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.99	24.80	24.98	
Channel				502200	518598	534996	25.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.80	24.89	24.82	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.79	24.93	24.98	
Channel				500700	518598	536496	25.7
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.93	24.94	24.85	
Channel				500202	518598	537000	25.7
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.97	24.94	24.92	



<FR1 n41_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	23.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.42	23.46	23.44	
100	PI/2 BPSK	1	137	23.29	23.31	23.29	23.5
100	PI/2 BPSK	1	271	23.38	23.40	23.38	
100	PI/2 BPSK	135	0	23.11	23.13	23.11	
100	PI/2 BPSK	135	69	23.44	23.45	23.44	23.5
100	PI/2 BPSK	135	138	23.28	23.29	23.27	23.5
100	PI/2 BPSK	270	0	23.27	23.29	23.27	
100	QPSK	1	1	23.43	23.45	23.44	
100	QPSK	1	137	23.42	23.43	23.42	23.5
100	QPSK	1	271	23.27	23.28	23.27	
100	QPSK	135	0	23.23	23.25	23.23	
100	QPSK	135	69	23.20	23.21	23.19	23.5
100	QPSK	135	138	23.18	23.20	23.18	23.5
100	QPSK	270	0	23.26	23.28	23.26	
100	16QAM	1	1	23.22	23.23	23.21	
100	64QAM	1	1	23.13	23.14	23.12	23.5
100	256QAM	1	1	20.98	21.00	20.99	21.5
Channel				508200	518598	528996	23.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.30	23.26	23.27	
Channel				507204	518598	529998	23.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.38	23.27	23.42	
Channel				506202	518598	531000	23.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.24	23.30	23.32	
Channel				505200	518598	531996	23.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.28	23.26	23.36	
Channel				503202	518598	534000	23.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.42	23.23	23.41	
Channel				502200	518598	534996	23.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.23	23.32	23.25	
Channel				501204	518598	535998	23.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.22	23.36	23.41	
Channel				500700	518598	536496	23.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.36	23.37	23.28	
Channel				500202	518598	537000	23.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.40	23.37	23.35	



<FR1 n41_Ant 5_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)
Channel				509202	518598	528000	22.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.37	21.40	21.47	
100	PI/2 BPSK	1	137	21.24	21.20	21.29	22.0
100	PI/2 BPSK	1	271	21.18	21.23	21.29	
100	PI/2 BPSK	135	0	21.19	21.21	21.32	
100	PI/2 BPSK	135	69	21.19	21.30	21.35	22.0
100	PI/2 BPSK	135	138	21.20	21.28	21.32	22.0
100	PI/2 BPSK	270	0	21.27	21.27	21.29	
100	QPSK	1	1	21.24	21.28	21.28	
100	QPSK	1	137	21.19	21.29	21.30	22.0
100	QPSK	1	271	21.24	21.20	21.29	
100	QPSK	135	0	21.26	21.21	21.27	
100	QPSK	135	69	21.27	21.27	21.31	22.0
100	QPSK	135	138	21.25	21.22	21.36	22.0
100	QPSK	270	0	21.23	21.26	21.31	
100	16QAM	1	1	21.23	21.27	21.30	
100	64QAM	1	1	21.18	21.26	21.37	22.0
100	256QAM	1	1	20.82	20.93	20.90	22.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.18	21.25	21.30	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.19	21.28	21.35	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.18	21.20	21.29	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.26	21.25	21.36	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.19	21.21	21.27	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.19	21.20	21.29	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.17	21.30	21.32	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.22	21.29	21.33	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.18	21.30	21.25	



<FR1 n41_Ant 2_DSI 0 / DSI 1 (WLAN OFF) / 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)
Channel				509202	518598	528000	23.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.95	22.97	22.30	
100	PI/2 BPSK	1	137	21.50	21.64	21.52	22.5
100	PI/2 BPSK	1	271	22.85	22.96	22.86	
100	PI/2 BPSK	135	0	21.26	21.87	21.28	
100	PI/2 BPSK	135	69	21.72	21.86	21.73	22.5
100	PI/2 BPSK	135	138	21.61	21.71	21.57	
100	PI/2 BPSK	270	0	21.93	22.08	21.96	
100	QPSK	1	1	22.64	22.78	22.67	23.0
100	QPSK	1	137	21.40	21.53	21.39	
100	QPSK	1	271	22.77	22.92	22.82	
100	QPSK	135	0	21.01	21.11	20.99	23.0
100	QPSK	135	69	21.77	21.90	21.75	
100	QPSK	135	138	21.17	21.32	21.22	
100	QPSK	270	0	21.62	21.72	21.59	22.0
100	16QAM	1	1	21.03	21.18	21.08	
100	64QAM	1	1	19.79	19.91	19.77	
100	256QAM	1	1	18.13	18.23	18.10	18.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.86	22.91	22.23	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.88	22.87	22.21	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.88	22.92	22.21	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.87	22.87	22.23	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.85	22.89	22.24	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.86	22.87	22.21	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.89	22.92	22.22	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.85	22.89	22.21	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.88	22.91	22.25	



<FR1 n41_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	22.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.30	21.70	21.50	
100	PI/2 BPSK	1	137	21.56	21.65	21.56	22.0
100	PI/2 BPSK	1	271	21.57	21.63	21.54	
100	PI/2 BPSK	135	0	21.42	21.68	21.43	
100	PI/2 BPSK	135	69	21.60	21.66	21.59	22.0
100	PI/2 BPSK	135	138	21.41	21.46	21.40	
100	PI/2 BPSK	270	0	21.35	21.43	21.33	
100	QPSK	1	1	20.93	21.02	20.97	22.5
100	QPSK	1	137	21.51	21.61	21.55	
100	QPSK	1	271	21.55	21.62	21.56	
100	QPSK	135	0	20.90	20.98	20.93	21.5
100	QPSK	135	69	21.53	21.59	21.50	22.5
100	QPSK	135	138	20.89	20.95	20.85	21.5
100	QPSK	270	0	20.88	20.94	20.84	
100	16QAM	1	1	20.32	20.41	20.31	
100	64QAM	1	1	19.12	19.19	19.14	20.0
100	256QAM	1	1	17.41	17.49	17.40	18.0
Channel				508200	518598	528996	22.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.02	21.60	20.95	
Channel				507204	518598	529998	22.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.99	21.60	20.98	
Channel				506202	518598	531000	22.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.00	21.61	20.96	
Channel				505200	518598	531996	22.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.04	21.62	20.98	
Channel				503202	518598	534000	22.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.00	21.57	20.96	
Channel				502200	518598	534996	22.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.00	21.57	20.97	
Channel				501204	518598	535998	22.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.00	21.57	20.96	
Channel				500700	518598	536496	22.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.03	21.57	20.98	
Channel				500202	518598	537000	22.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.59	20.97	



<FR1 n41_Ant 3_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)
Channel				509202	518598	528000	22.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.30	21.70	21.50	
100	PI/2 BPSK	1	137	21.56	21.65	21.56	22.0
100	PI/2 BPSK	1	271	21.57	21.63	21.54	
100	PI/2 BPSK	135	0	21.42	21.68	21.43	
100	PI/2 BPSK	135	69	21.60	21.66	21.59	22.0
100	PI/2 BPSK	135	138	21.41	21.46	21.40	
100	PI/2 BPSK	270	0	21.35	21.43	21.33	
100	QPSK	1	1	20.93	21.02	20.97	22.5
100	QPSK	1	137	21.51	21.61	21.55	
100	QPSK	1	271	21.55	21.62	21.56	
100	QPSK	135	0	20.90	20.98	20.93	21.5
100	QPSK	135	69	21.53	21.59	21.50	22.5
100	QPSK	135	138	20.89	20.95	20.85	21.5
100	QPSK	270	0	20.88	20.94	20.84	
100	16QAM	1	1	20.32	20.41	20.31	
100	64QAM	1	1	19.12	19.19	19.14	20.0
100	256QAM	1	1	17.41	17.49	17.40	18.0
Channel				508200	518598	528996	22.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.02	21.60	20.95	
Channel				507204	518598	529998	22.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.99	21.60	20.98	
Channel				506202	518598	531000	22.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.00	21.61	20.96	
Channel				505200	518598	531996	22.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.04	21.62	20.98	
Channel				503202	518598	534000	22.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.00	21.57	20.96	
Channel				502200	518598	534996	22.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.00	21.57	20.97	
Channel				501204	518598	535998	22.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.00	21.57	20.96	
Channel				500700	518598	536496	22.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.03	21.57	20.98	
Channel				500202	518598	537000	22.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.59	20.97	



<FR1 n41_Ant 4_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	22.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.45	20.66	22.48	
100	PI/2 BPSK	1	137	22.33	22.43	22.33	22.0
100	PI/2 BPSK	1	271	21.51	21.56	21.48	
100	PI/2 BPSK	135	0	20.58	20.65	20.56	
100	PI/2 BPSK	135	69	22.34	22.40	22.44	22.0
100	PI/2 BPSK	135	138	21.84	21.92	21.87	
100	PI/2 BPSK	270	0	21.49	21.56	21.47	
100	QPSK	1	1	20.63	20.52	20.67	22.5
100	QPSK	1	137	22.38	22.46	22.37	
100	QPSK	1	271	21.42	21.52	21.46	
100	QPSK	135	0	20.13	20.23	20.15	21.5
100	QPSK	135	69	22.32	22.39	22.29	22.5
100	QPSK	135	138	21.36	21.42	21.34	21.5
100	QPSK	270	0	21.08	21.15	21.08	
100	16QAM	1	1	19.65	19.71	19.63	
100	64QAM	1	1	18.40	18.48	18.38	20.0
100	256QAM	1	1	16.80	16.85	16.79	18.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.40	20.57	22.39	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.38	20.60	22.43	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.35	20.59	22.39	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.40	20.56	22.43	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.40	20.58	22.41	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.37	20.57	22.43	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.37	20.59	22.39	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.35	20.61	22.38	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.38	20.58	22.38	



<FR1 n41_Ant 4_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	22.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.45	20.66	22.48	
100	PI/2 BPSK	1	137	22.33	22.43	22.33	22.0
100	PI/2 BPSK	1	271	21.51	21.56	21.48	
100	PI/2 BPSK	135	0	20.58	20.65	20.56	
100	PI/2 BPSK	135	69	22.34	22.40	22.44	22.0
100	PI/2 BPSK	135	138	21.84	21.92	21.87	
100	PI/2 BPSK	270	0	21.49	21.56	21.47	
100	QPSK	1	1	20.63	20.52	20.67	22.5
100	QPSK	1	137	22.38	22.46	22.37	
100	QPSK	1	271	21.42	21.52	21.46	
100	QPSK	135	0	20.13	20.23	20.15	21.5
100	QPSK	135	69	22.32	22.39	22.29	22.5
100	QPSK	135	138	21.36	21.42	21.34	21.5
100	QPSK	270	0	21.08	21.15	21.08	
100	16QAM	1	1	19.65	19.71	19.63	
100	64QAM	1	1	18.40	18.48	18.38	20.0
100	256QAM	1	1	16.80	16.85	16.79	18.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.40	20.57	22.39	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.38	20.60	22.43	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.35	20.59	22.39	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.40	20.56	22.43	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.40	20.58	22.41	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.37	20.57	22.43	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.37	20.59	22.39	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.35	20.61	22.38	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.38	20.58	22.38	



<FR1 n41_Ant 4_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)
Channel				509202	518598	528000	22.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.45	20.66	22.48	
100	PI/2 BPSK	1	137	22.33	22.43	22.33	22.0
100	PI/2 BPSK	1	271	21.51	21.56	21.48	
100	PI/2 BPSK	135	0	20.58	20.65	20.56	
100	PI/2 BPSK	135	69	22.34	22.40	22.44	22.0
100	PI/2 BPSK	135	138	21.84	21.92	21.87	
100	PI/2 BPSK	270	0	21.49	21.56	21.47	
100	QPSK	1	1	20.63	20.52	20.67	22.5
100	QPSK	1	137	22.38	22.46	22.37	
100	QPSK	1	271	21.42	21.52	21.46	
100	QPSK	135	0	20.13	20.23	20.15	21.5
100	QPSK	135	69	22.32	22.39	22.29	22.5
100	QPSK	135	138	21.36	21.42	21.34	21.5
100	QPSK	270	0	21.08	21.15	21.08	
100	16QAM	1	1	19.65	19.71	19.63	
100	64QAM	1	1	18.40	18.48	18.38	20.0
100	256QAM	1	1	16.80	16.85	16.79	18.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.40	20.57	22.39	
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.38	20.60	22.43	
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.35	20.59	22.39	
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.40	20.56	22.43	
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.40	20.58	22.41	
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.37	20.57	22.43	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.37	20.59	22.39	
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.35	20.61	22.38	
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.38	20.58	22.38	



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n41_HPUE_Ant 5_DSI 0 / DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	27.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	27.20	27.21	27.18	
100	PI/2 BPSK	1	137	27.05	27.10	27.14	27.5
100	PI/2 BPSK	1	271	26.49	26.90	26.46	
100	PI/2 BPSK	135	0	26.90	26.95	26.84	
100	PI/2 BPSK	135	69	27.01	27.15	27.10	27.5
100	PI/2 BPSK	135	138	26.85	27.10	26.88	27.5
100	PI/2 BPSK	270	0	26.77	26.89	26.86	
100	QPSK	1	1	27.02	27.07	27.11	
100	QPSK	1	137	26.98	27.00	27.10	27.5
100	QPSK	1	271	26.48	26.90	26.49	
100	QPSK	135	0	26.38	26.43	26.38	
100	QPSK	135	69	26.45	26.88	26.44	27.5
100	QPSK	135	138	26.39	26.84	26.38	27.5
100	QPSK	270	0	26.23	26.68	26.32	
100	16QAM	1	1	26.17	26.62	26.26	
100	64QAM	1	1	24.82	25.10	24.89	26.5
100	256QAM	1	1	22.79	23.07	22.88	24.5
Channel				508200	518598	528996	27.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.82	26.73	26.75	
Channel				507204	518598	529998	27.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.80	26.89	26.83	
Channel				506202	518598	531000	27.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.75	26.75	26.86	
Channel				505200	518598	531996	27.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.90	26.75	26.79	
Channel				503202	518598	534000	27.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.79	26.83	26.89	
Channel				502200	518598	534996	27.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.88	26.83	26.84	
Channel				501204	518598	535998	27.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.88	26.93	26.84	
Channel				500700	518598	536496	27.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.80	26.90	26.91	
Channel				500202	518598	537000	27.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.92	26.78	26.83	



<FR1 n41_HPUE_Ant 5_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	26.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.44	26.47	26.43	
100	PI/2 BPSK	1	137	26.27	26.30	26.26	26.5
100	PI/2 BPSK	1	271	26.07	26.10	26.06	
100	PI/2 BPSK	135	0	26.12	26.15	26.11	
100	PI/2 BPSK	135	69	26.32	26.35	26.31	26.5
100	PI/2 BPSK	135	138	26.27	26.30	26.26	26.5
100	PI/2 BPSK	270	0	26.06	26.09	26.05	
100	QPSK	1	1	26.24	26.27	26.23	
100	QPSK	1	137	26.17	26.20	26.16	26.5
100	QPSK	1	271	26.07	26.10	26.06	
100	QPSK	135	0	25.60	25.63	25.59	
100	QPSK	135	69	26.05	26.08	26.04	26.5
100	QPSK	135	138	26.01	26.04	26.00	26.5
100	QPSK	270	0	25.85	25.88	25.84	
100	16QAM	1	1	26.35	26.38	26.34	
100	64QAM	1	1	25.07	25.10	25.06	26.5
100	256QAM	1	1	23.04	23.07	23.03	24.5
Channel				508200	518598	528996	26.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.24	26.44	26.26	
Channel				507204	518598	529998	26.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.25	26.35	26.42	
Channel				506202	518598	531000	26.5
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.32	26.27	26.35	
Channel				505200	518598	531996	26.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.25	26.32	26.35	
Channel				503202	518598	534000	26.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.30	26.42	26.42	
Channel				502200	518598	534996	26.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.42	26.25	26.28	
Channel				501204	518598	535998	26.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.39	26.36	26.43	
Channel				500700	518598	536496	26.5
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.29	26.27	26.24	
Channel				500202	518598	537000	26.5
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.43	26.31	26.34	



<FR1 n41_HPUE_Ant 5_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)
Channel				509202	518598	528000	25.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.52	24.50	24.56	
100	PI/2 BPSK	1	137	24.33	24.34	24.38	25.0
100	PI/2 BPSK	1	271	24.39	24.31	24.41	
100	PI/2 BPSK	135	0	24.38	24.32	24.37	
100	PI/2 BPSK	135	69	24.34	24.37	24.46	25.0
100	PI/2 BPSK	135	138	24.33	24.34	24.36	
100	PI/2 BPSK	270	0	24.38	24.40	24.41	
100	QPSK	1	1	24.38	24.35	24.46	25.0
100	QPSK	1	137	24.34	24.36	24.38	
100	QPSK	1	271	24.35	24.36	24.41	
100	QPSK	135	0	24.32	24.32	24.39	25.0
100	QPSK	135	69	24.32	24.38	24.43	
100	QPSK	135	138	24.36	24.36	24.46	
100	QPSK	270	0	24.40	24.31	24.45	25.0
100	16QAM	1	1	24.37	24.33	24.38	
100	64QAM	1	1	24.39	24.40	24.45	
100	256QAM	1	1	22.84	22.93	22.95	24.5
Channel				508200	518598	528996	25.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.33	24.34	24.37	
Channel				507204	518598	529998	25.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.34	24.36	24.43	
Channel				506202	518598	531000	25.0
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.38	24.31	24.41	
Channel				505200	518598	531996	25.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.32	24.36	24.43	
Channel				503202	518598	534000	25.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.32	24.35	24.37	
Channel				502200	518598	534996	25.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.40	24.39	24.46	
Channel				501204	518598	535998	25.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.32	24.36	24.39	
Channel				500700	518598	536496	25.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.35	24.34	24.42	
Channel				500202	518598	537000	25.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.23	24.30	24.32	



<FR1 n48_Ant 8_DSI 0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	24.3
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	23.61	23.66	23.57	
40	PI/2 BPSK	1	53	23.56	23.64	23.54	24.3
40	PI/2 BPSK	1	104	23.44	23.56	23.42	
40	PI/2 BPSK	50	0	23.52	23.63	23.53	
40	PI/2 BPSK	50	28	23.50	23.62	23.45	24.3
40	PI/2 BPSK	50	56	23.46	23.54	23.45	24.3
40	PI/2 BPSK	100	0	23.40	23.55	23.43	
40	QPSK	1	1	23.41	23.54	23.38	
40	QPSK	1	53	23.45	23.51	23.40	24.3
40	QPSK	1	104	23.46	23.52	23.36	
40	QPSK	50	0	23.53	23.60	23.48	
40	QPSK	50	28	23.51	23.58	23.44	24.3
40	QPSK	50	56	23.40	23.50	23.41	24.3
40	QPSK	100	0	23.45	23.57	23.40	
40	16QAM	1	1	23.43	23.57	23.40	
40	64QAM	1	1	22.47	22.56	22.46	23.3
40	256QAM	1	1	20.51	20.56	20.44	21.3
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.53	23.50	23.43	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.56	23.59	23.41	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.48	23.47	23.37	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.44	23.49	23.53	



<FR1 n48_Ant 8_DSI 1 (WLAN OFF)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	24.3
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	23.61	23.66	23.57	
40	PI/2 BPSK	1	53	23.56	23.64	23.54	24.3
40	PI/2 BPSK	1	104	23.44	23.56	23.42	
40	PI/2 BPSK	50	0	23.52	23.63	23.53	
40	PI/2 BPSK	50	28	23.50	23.62	23.45	24.3
40	PI/2 BPSK	50	56	23.46	23.54	23.45	24.3
40	PI/2 BPSK	100	0	23.40	23.55	23.43	
40	QPSK	1	1	23.41	23.54	23.38	
40	QPSK	1	53	23.45	23.51	23.40	24.3
40	QPSK	1	104	23.46	23.52	23.36	
40	QPSK	50	0	23.53	23.60	23.48	
40	QPSK	50	28	23.51	23.58	23.44	24.3
40	QPSK	50	56	23.40	23.50	23.41	24.3
40	QPSK	100	0	23.45	23.57	23.40	
40	16QAM	1	1	23.43	23.57	23.40	
40	64QAM	1	1	22.47	22.56	22.46	23.3
40	256QAM	1	1	20.51	20.56	20.44	21.3
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.53	23.50	23.43	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.56	23.59	23.41	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.48	23.47	23.37	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.44	23.49	23.53	



<FR1 n48_Ant 8_DSI 1 (WLAN ON)>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	22.3
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.13	21.30	21.10	
40	PI/2 BPSK	1	53	21.17	21.18	21.19	22.3
40	PI/2 BPSK	1	104	21.17	21.14	21.20	
40	PI/2 BPSK	50	0	21.17	21.20	21.10	
40	PI/2 BPSK	50	28	21.17	21.13	21.14	22.3
40	PI/2 BPSK	50	56	21.19	21.19	21.18	22.3
40	PI/2 BPSK	100	0	21.10	21.17	21.15	
40	QPSK	1	1	21.11	21.12	21.15	
40	QPSK	1	53	21.19	21.13	21.17	22.3
40	QPSK	1	104	21.18	21.16	21.11	
40	QPSK	50	0	21.12	21.11	21.13	
40	QPSK	50	28	21.14	21.17	21.13	22.3
40	QPSK	50	56	21.13	21.11	21.16	22.3
40	QPSK	100	0	21.17	21.10	21.16	
40	16QAM	1	1	21.00	21.10	21.08	
40	64QAM	1	1	20.40	20.45	20.33	22.3
40	256QAM	1	1	19.30	19.32	19.31	20.3
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.82	20.96	20.87	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.73	20.98	20.85	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.92	20.96	20.70	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.80	21.03	20.85	



<FR1 n48_Ant 8_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)
Channel				638000	641666	645332	20.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.63	19.80	19.60	
40	PI/2 BPSK	1	53	19.67	19.68	19.69	20.5
40	PI/2 BPSK	1	104	19.67	19.64	19.70	
40	PI/2 BPSK	50	0	19.67	19.70	19.60	
40	PI/2 BPSK	50	28	19.67	19.63	19.64	20.5
40	PI/2 BPSK	50	56	19.69	19.69	19.68	20.5
40	PI/2 BPSK	100	0	19.60	19.67	19.65	
40	QPSK	1	1	19.61	19.62	19.65	
40	QPSK	1	53	19.69	19.63	19.67	20.5
40	QPSK	1	104	19.68	19.66	19.61	
40	QPSK	50	0	19.62	19.61	19.63	
40	QPSK	50	28	19.64	19.67	19.63	20.5
40	QPSK	50	56	19.63	19.61	19.66	20.5
40	QPSK	100	0	19.67	19.60	19.66	
40	16QAM	1	1	19.60	19.70	19.68	
40	64QAM	1	1	19.61	19.63	19.60	20.5
40	256QAM	1	1	19.70	19.61	19.68	19.8
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.49	19.67	19.48	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.46	19.67	19.47	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.50	19.68	19.45	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.50	19.65	19.49	



<FR1 n77_Ant 9_DSI 0 / DSI 1 (WLAN OFF)> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.14	21.15	21.13	
100	PI/2 BPSK	1	137	21.02	21.08	20.96	21.5
100	PI/2 BPSK	1	271	21.02	21.05	21.01	
100	PI/2 BPSK	135	0	20.79	20.83	20.77	
100	PI/2 BPSK	135	69	20.77	20.81	20.70	21.5
100	PI/2 BPSK	135	138	20.60	20.71	20.65	21.5
100	PI/2 BPSK	270	0	20.75	20.78	20.68	
100	QPSK	1	1	20.99	21.05	21.01	
100	QPSK	1	137	21.02	21.13	21.07	21.5
100	QPSK	1	271	21.10	21.11	21.03	
100	QPSK	135	0	20.92	21.00	20.89	
100	QPSK	135	69	20.96	20.98	20.92	21.5
100	QPSK	135	138	20.89	20.93	20.86	21.5
100	QPSK	270	0	20.89	20.98	20.96	
100	16QAM	1	1	21.09	21.12	21.00	
100	64QAM	1	1	21.03	21.14	21.07	21.5
100	256QAM	1	1	20.98	21.08	20.99	21.5
Channel				649668	656000	662332	21.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.11	20.95	21.11	
Channel				649334	656000	662666	21.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.97	20.96	21.02	
Channel				649000	656000	663000	21.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.96	21.15	21.12	
Channel				648668	656000	663332	21.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.98	21.02	21.02	
Channel				648334	656000	663666	21.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.10	21.03	21.11	
Channel				648000	656000	664000	21.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.10	21.08	21.04	
Channel				647668	656000	664332	21.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.10	21.13	21.12	
Channel				647334	656000	664666	21.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.97	20.99	21.03	
Channel				647168	656000	664832	21.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.11	21.02	21.00	
Channel				647000	656000	665000	21.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.05	20.97	20.99	



<FR1 n77_Ant 9_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.32	18.45	18.38	
100	PI/2 BPSK	1	137	18.13	18.30	18.22	18.5
100	PI/2 BPSK	1	271	18.14	18.26	18.18	
100	PI/2 BPSK	135	0	18.21	18.33	18.23	
100	PI/2 BPSK	135	69	18.20	18.32	18.19	18.5
100	PI/2 BPSK	135	138	18.12	18.32	18.26	18.5
100	PI/2 BPSK	270	0	18.15	18.26	18.25	
100	QPSK	1	1	18.12	18.31	18.26	
100	QPSK	1	137	18.17	18.26	18.18	18.5
100	QPSK	1	271	18.14	18.33	18.18	
100	QPSK	135	0	18.21	18.27	18.25	
100	QPSK	135	69	18.17	18.28	18.25	18.5
100	QPSK	135	138	18.12	18.34	18.26	18.5
100	QPSK	270	0	18.14	18.29	18.28	
100	16QAM	1	1	18.12	18.32	18.25	
100	64QAM	1	1	18.15	18.29	18.27	18.5
100	256QAM	1	1	18.16	18.28	18.22	18.5
Channel				649668	656000	662332	18.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.15	18.27	18.28	
Channel				649334	656000	662666	18.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.14	18.31	18.18	
Channel				649000	656000	663000	18.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.20	18.35	18.21	
Channel				648668	656000	663332	18.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.20	18.34	18.26	
Channel				648334	656000	663666	18.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.20	18.33	18.23	
Channel				648000	656000	664000	18.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.22	18.32	18.22	
Channel				647668	656000	664332	18.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.22	18.35	18.28	
Channel				647334	656000	664666	18.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.12	18.32	18.22	
Channel				647168	656000	664832	18.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.21	18.28	18.18	
Channel				647000	656000	665000	18.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.21	18.33	18.19	



<FR1 n77_Ant 8_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.68	24.70	24.64	
100	PI/2 BPSK	1	137	24.56	24.67	24.51	25.0
100	PI/2 BPSK	1	271	24.52	24.56	24.47	
100	PI/2 BPSK	135	0	24.53	24.65	24.49	
100	PI/2 BPSK	135	69	24.57	24.64	24.56	25.0
100	PI/2 BPSK	135	138	24.40	24.48	24.40	25.0
100	PI/2 BPSK	270	0	24.45	24.52	24.37	
100	QPSK	1	1	24.51	24.61	24.51	
100	QPSK	1	137	24.62	24.66	24.59	25.0
100	QPSK	1	271	24.50	24.62	24.46	
100	QPSK	135	0	24.54	24.58	24.52	
100	QPSK	135	69	24.54	24.60	24.54	25.0
100	QPSK	135	138	24.45	24.49	24.41	25.0
100	QPSK	270	0	24.37	24.45	24.29	
100	16QAM	1	1	24.54	24.62	24.56	
100	64QAM	1	1	23.37	23.44	23.37	23.5
100	256QAM	1	1	21.35	21.38	21.28	21.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.56	24.52	24.60	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.62	24.59	24.51	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.60	24.50	24.47	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.60	24.60	24.49	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.53	24.57	24.56	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.48	24.54	24.61	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.66	24.53	24.55	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.60	24.50	24.57	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.53	24.69	24.59	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.65	24.50	24.49	



<FR1 n77_Ant 8_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.90	22.92	22.65	
100	PI/2 BPSK	1	137	22.38	22.51	22.43	23.3
100	PI/2 BPSK	1	271	22.30	22.41	22.36	
100	PI/2 BPSK	135	0	22.36	22.40	22.35	
100	PI/2 BPSK	135	69	22.38	22.47	22.37	23.3
100	PI/2 BPSK	135	138	22.18	22.31	22.22	23.3
100	PI/2 BPSK	270	0	22.24	22.34	22.21	
100	QPSK	1	1	22.32	22.43	22.38	
100	QPSK	1	137	22.51	22.60	22.49	23.3
100	QPSK	1	271	22.36	22.50	22.43	
100	QPSK	135	0	22.28	22.40	22.31	
100	QPSK	135	69	22.36	22.46	22.34	23.3
100	QPSK	135	138	22.22	22.33	22.29	23.3
100	QPSK	270	0	22.21	22.32	22.27	
100	16QAM	1	1	22.37	22.50	22.46	
100	64QAM	1	1	22.47	22.53	22.46	23.3
100	256QAM	1	1	20.46	20.50	20.42	21.3
Channel				649668	656000	662332	23.3
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.54	22.62	22.57	
Channel				649334	656000	662666	23.3
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.57	22.63	22.51	
Channel				649000	656000	663000	23.3
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.53	22.58	22.54	
Channel				648668	656000	663332	23.3
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.49	22.58	22.52	
Channel				648334	656000	663666	23.3
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.55	22.56	22.48	
Channel				648000	656000	664000	23.3
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.55	22.55	22.48	
Channel				647668	656000	664332	23.3
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.57	22.62	22.56	
Channel				647334	656000	664666	23.3
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.54	22.53	22.54	
Channel				647168	656000	664832	23.3
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.55	22.48	22.45	
Channel				647000	656000	665000	23.3
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.56	22.51	22.50	



<FR1 n77_Ant 8_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.55	19.28	19.38	
100	PI/2 BPSK	1	137	19.40	19.08	19.22	20.3
100	PI/2 BPSK	1	271	19.38	19.12	19.21	
100	PI/2 BPSK	135	0	19.41	19.14	19.22	
100	PI/2 BPSK	135	69	19.40	19.12	19.21	20.3
100	PI/2 BPSK	135	138	19.35	19.12	19.25	20.3
100	PI/2 BPSK	270	0	19.36	19.12	19.28	
100	QPSK	1	1	19.38	19.14	19.24	
100	QPSK	1	137	19.44	19.18	19.23	20.3
100	QPSK	1	271	19.37	19.17	19.24	
100	QPSK	135	0	19.44	19.12	19.23	
100	QPSK	135	69	19.39	19.09	19.18	20.3
100	QPSK	135	138	19.39	19.17	19.18	20.3
100	QPSK	270	0	19.43	19.15	19.26	
100	16QAM	1	1	19.40	19.18	19.28	
100	64QAM	1	1	19.45	19.09	19.23	20.3
100	256QAM	1	1	19.44	19.10	19.27	20.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.53	19.25	19.35	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.52	19.26	19.36	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.52	19.26	19.35	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.52	19.25	19.35	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.53	19.25	19.36	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.53	19.26	19.35	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.52	19.26	19.35	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.52	19.26	19.35	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.53	19.26	19.35	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.52	19.25	19.35	



<FR1 n77_Ant 8_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.25	17.98	18.08	
100	PI/2 BPSK	1	137	18.10	17.78	17.92	18.5
100	PI/2 BPSK	1	271	18.08	17.82	17.91	
100	PI/2 BPSK	135	0	18.11	17.84	17.92	
100	PI/2 BPSK	135	69	18.10	17.82	17.91	18.5
100	PI/2 BPSK	135	138	18.05	17.82	17.95	18.5
100	PI/2 BPSK	270	0	18.06	17.82	17.98	
100	QPSK	1	1	18.08	17.84	17.94	
100	QPSK	1	137	18.14	17.88	17.93	18.5
100	QPSK	1	271	18.07	17.87	17.94	
100	QPSK	135	0	18.14	17.82	17.93	
100	QPSK	135	69	18.09	17.79	17.88	18.5
100	QPSK	135	138	18.09	17.87	17.88	18.5
100	QPSK	270	0	18.13	17.85	17.96	
100	16QAM	1	1	18.10	17.88	17.98	
100	64QAM	1	1	18.15	17.79	17.93	18.5
100	256QAM	1	1	18.14	17.80	17.97	18.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.15	17.88	17.96	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.06	17.86	17.88	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.15	17.84	17.88	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.09	17.85	17.92	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.12	17.84	17.90	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.08	17.79	17.92	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.14	17.86	17.97	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.13	17.81	17.92	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.14	17.88	17.95	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.11	17.95	17.99	



<FR1 n77_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.80	21.95	21.92	
100	PI/2 BPSK	1	137	21.84	21.86	21.85	22.0
100	PI/2 BPSK	1	271	21.70	21.72	21.71	
100	PI/2 BPSK	135	0	21.71	21.75	21.71	
100	PI/2 BPSK	135	69	21.74	21.73	21.73	22.0
100	PI/2 BPSK	135	138	21.66	21.68	21.66	22.0
100	PI/2 BPSK	270	0	21.73	21.74	21.73	
100	QPSK	1	1	21.81	21.82	21.81	
100	QPSK	1	137	21.87	21.89	21.87	22.0
100	QPSK	1	271	21.72	21.74	21.72	
100	QPSK	135	0	21.75	21.77	21.76	
100	QPSK	135	69	21.72	21.73	21.71	22.0
100	QPSK	135	138	21.65	21.66	21.64	22.0
100	QPSK	270	0	21.71	21.72	21.71	
100	16QAM	1	1	21.84	21.85	21.84	
100	64QAM	1	1	21.88	21.90	21.89	22.0
100	256QAM	1	1	21.38	21.39	21.37	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.78	21.92	21.89	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.79	21.93	21.90	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.77	21.93	21.91	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.78	21.94	21.91	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.78	21.92	21.91	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.79	21.94	21.90	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.78	21.92	21.91	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.77	21.93	21.89	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.79	21.93	21.89	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.79	21.92	21.89	



<FR1 n77_Ant 3_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.86	20.11	20.06	
100	PI/2 BPSK	1	137	19.66	19.95	19.92	20.7
100	PI/2 BPSK	1	271	19.67	19.93	19.90	
100	PI/2 BPSK	135	0	19.67	20.01	19.87	
100	PI/2 BPSK	135	69	19.74	19.92	19.89	20.7
100	PI/2 BPSK	135	138	19.71	20.00	19.94	20.7
100	PI/2 BPSK	270	0	19.70	19.93	19.92	
100	QPSK	1	1	19.69	19.92	19.94	
100	QPSK	1	137	19.74	19.94	19.88	20.7
100	QPSK	1	271	19.71	19.95	19.88	
100	QPSK	135	0	19.72	19.97	19.89	
100	QPSK	135	69	19.67	19.93	19.95	20.7
100	QPSK	135	138	19.69	19.98	19.91	20.7
100	QPSK	270	0	19.72	19.98	19.89	
100	16QAM	1	1	19.75	19.97	19.94	
100	64QAM	1	1	19.70	19.95	19.89	20.7
100	256QAM	1	1	19.70	19.94	19.92	20.7
Channel				649668	656000	662332	20.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.71	19.97	19.89	
Channel				649334	656000	662666	20.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.74	19.99	19.94	
Channel				649000	656000	663000	20.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.67	20.00	19.88	
Channel				648668	656000	663332	20.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.68	19.92	19.90	
Channel				648334	656000	663666	20.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.68	19.97	19.86	
Channel				648000	656000	664000	20.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.67	19.98	19.96	
Channel				647668	656000	664332	20.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.73	20.01	19.95	
Channel				647334	656000	664666	20.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.71	19.95	19.90	
Channel				647168	656000	664832	20.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.69	19.93	19.93	
Channel				647000	656000	665000	20.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.80	19.85	19.86	



<FR1 n77_Ant 4_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK		1	21.89	21.90	21.83	
100	PI/2 BPSK	1	137	21.86	21.85	21.79	22.0
100	PI/2 BPSK	1	271	21.67	21.66	21.60	
100	PI/2 BPSK	135	0	21.89	21.88	21.82	
100	PI/2 BPSK	135	69	21.83	21.82	21.76	22.0
100	PI/2 BPSK	135	138	21.67	21.66	21.60	22.0
100	PI/2 BPSK	270	0	21.80	21.79	21.73	
100	QPSK	1	1	21.77	21.76	21.70	
100	QPSK	1	137	21.77	21.76	21.70	22.0
100	QPSK	1	271	21.81	21.80	21.74	
100	QPSK	135	0	21.38	21.37	21.31	
100	QPSK	135	69	21.81	21.80	21.74	22.0
100	QPSK	135	138	21.18	21.17	21.11	22.0
100	QPSK	270	0	21.29	21.28	21.22	
100	16QAM	1	1	21.49	21.48	21.42	
100	64QAM	1	1	19.99	19.98	19.92	22.0
100	256QAM	1	1	17.94	17.93	17.87	19.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.89	21.84	21.87	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.75	21.78	21.81	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.78	21.80	21.73	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.90	21.70	21.83	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.77	21.88	21.90	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.83	21.73	21.74	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.87	21.89	21.71	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.88	21.80	21.84	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.85	21.89	21.73	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.73	21.84	21.85	



<FR1 n77_Ant 4_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK		1	18.80	19.01	18.85	
100	PI/2 BPSK	1	137	18.74	18.95	18.79	19.2
100	PI/2 BPSK	1	271	18.69	18.90	18.74	
100	PI/2 BPSK	135	0	18.61	18.82	18.66	
100	PI/2 BPSK	135	69	18.64	18.88	18.69	19.2
100	PI/2 BPSK	135	138	18.67	18.85	18.72	19.2
100	PI/2 BPSK	270	0	18.57	18.78	18.62	
100	QPSK	1	1	18.76	18.97	18.81	
100	QPSK	1	137	18.74	18.95	18.79	19.2
100	QPSK	1	271	18.69	18.90	18.74	
100	QPSK	135	0	18.59	18.80	18.64	
100	QPSK	135	69	18.54	18.75	18.59	19.2
100	QPSK	135	138	18.67	18.88	18.72	19.2
100	QPSK	270	0	18.54	18.75	18.59	
100	16QAM	1	1	18.74	18.95	18.79	
100	64QAM	1	1	18.69	18.90	18.74	19.2
100	256QAM	1	1	17.91	18.12	17.96	19.2
Channel				649668	656000	662332	19.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.75	18.68	18.77	
Channel				649334	656000	662666	19.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.75	18.60	18.60	
Channel				649000	656000	663000	19.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.80	18.77	18.72	
Channel				648668	656000	663332	19.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.77	18.66	18.67	
Channel				648334	656000	663666	19.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.62	18.75	18.75	
Channel				648000	656000	664000	19.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.66	18.69	18.77	
Channel				647668	656000	664332	19.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.74	18.66	18.67	
Channel				647334	656000	664666	19.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.75	18.80	18.67	
Channel				647168	656000	664832	19.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.67	18.63	18.65	
Channel				647000	656000	665000	19.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.75	18.66	18.68	



<FR1 n77_Ant 4_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK		1	15.93	16.08	15.85	
100	PI/2 BPSK	1	137	15.73	15.97	15.67	16.3
100	PI/2 BPSK	1	271	15.74	15.93	15.69	
100	PI/2 BPSK	135	0	15.76	15.98	15.68	
100	PI/2 BPSK	135	69	15.78	15.95	15.68	16.3
100	PI/2 BPSK	135	138	15.75	15.90	15.70	16.3
100	PI/2 BPSK	270	0	15.74	15.93	15.73	
100	QPSK	1	1	15.81	15.90	15.71	
100	QPSK	1	137	15.62	15.84	15.49	16.3
100	QPSK	1	271	15.57	15.74	15.50	
100	QPSK	135	0	15.63	15.75	15.52	
100	QPSK	135	69	15.68	15.81	15.57	16.3
100	QPSK	135	138	15.57	15.78	15.56	16.3
100	QPSK	270	0	15.75	15.79	15.53	
100	16QAM	1	1	15.70	16.03	15.68	
100	64QAM	1	1	15.68	16.02	15.62	16.3
100	256QAM	1	1	15.60	16.00	15.55	16.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.82	15.97	15.66	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.79	15.89	15.74	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.80	15.98	15.65	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.79	15.93	15.72	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.78	15.92	15.72	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.78	15.91	15.74	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.81	15.97	15.73	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.79	15.90	15.68	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.75	15.90	15.75	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.79	15.96	15.66	



<FR1 n77_Ant 4_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK		1	15.93	16.08	15.85	
100	PI/2 BPSK	1	137	15.73	15.97	15.67	16.3
100	PI/2 BPSK	1	271	15.74	15.93	15.69	
100	PI/2 BPSK	135	0	15.76	15.98	15.68	
100	PI/2 BPSK	135	69	15.78	15.95	15.68	16.3
100	PI/2 BPSK	135	138	15.75	15.90	15.70	16.3
100	PI/2 BPSK	270	0	15.74	15.93	15.73	
100	QPSK	1	1	15.81	15.90	15.71	
100	QPSK	1	137	15.62	15.84	15.49	16.3
100	QPSK	1	271	15.57	15.74	15.50	
100	QPSK	135	0	15.63	15.75	15.52	
100	QPSK	135	69	15.68	15.81	15.57	16.3
100	QPSK	135	138	15.57	15.78	15.56	16.3
100	QPSK	270	0	15.75	15.79	15.53	
100	16QAM	1	1	15.70	16.03	15.68	
100	64QAM	1	1	15.68	16.02	15.62	16.3
100	256QAM	1	1	15.60	16.00	15.55	16.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.82	15.97	15.66	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.79	15.89	15.74	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.80	15.98	15.65	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.79	15.93	15.72	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.78	15.92	15.72	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.78	15.91	15.74	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.81	15.97	15.73	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.79	15.90	15.68	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.75	15.90	15.75	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.79	15.96	15.66	



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n77_HPUE_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.26	24.29	24.17	
100	PI/2 BPSK	1	137	24.16	24.25	24.05	24.5
100	PI/2 BPSK	1	271	24.15	24.20	24.04	
100	PI/2 BPSK	135	0	24.21	24.27	24.10	
100	PI/2 BPSK	135	69	24.07	24.20	23.98	24.5
100	PI/2 BPSK	135	138	24.12	24.16	24.04	24.5
100	PI/2 BPSK	270	0	24.21	24.26	24.11	
100	QPSK	1	1	24.19	24.26	24.04	
100	QPSK	1	137	24.15	24.23	24.07	24.5
100	QPSK	1	271	24.19	24.27	24.08	
100	QPSK	135	0	24.08	24.19	24.03	
100	QPSK	135	69	24.10	24.16	24.01	24.5
100	QPSK	135	138	24.16	24.26	24.13	24.5
100	QPSK	270	0	24.19	24.24	24.03	
100	16QAM	1	1	24.13	24.22	24.05	
100	64QAM	1	1	23.32	23.38	23.26	23.5
100	256QAM	1	1	21.19	21.28	21.13	21.5
Channel				649668	656000	662332	24.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.24	24.24	24.03	
Channel				649334	656000	662666	24.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.22	24.13	24.00	
Channel				649000	656000	663000	24.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.15	24.11	24.14	
Channel				648668	656000	663332	24.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.07	24.19	24.07	
Channel				648334	656000	663666	24.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.21	24.09	24.10	
Channel				648000	656000	664000	24.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.22	24.12	
Channel				647668	656000	664332	24.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.12	24.17	24.06	
Channel				647334	656000	664666	24.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.15	24.15	24.00	
Channel				647168	656000	664832	24.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.08	24.16	24.09	
Channel				647000	656000	665000	24.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.09	24.19	24.09	



<FR1 n77_HPUE_Ant 9_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.40	21.43	21.35	
100	PI/2 BPSK	1	137	21.21	21.25	21.18	21.5
100	PI/2 BPSK	1	271	21.24	21.27	21.16	
100	PI/2 BPSK	135	0	21.27	21.32	21.21	
100	PI/2 BPSK	135	69	21.22	21.30	21.22	21.5
100	PI/2 BPSK	135	138	21.25	21.29	21.17	21.5
100	PI/2 BPSK	270	0	21.26	21.26	21.19	
100	QPSK	1	1	21.25	21.28	21.25	
100	QPSK	1	137	21.28	21.28	21.21	21.5
100	QPSK	1	271	21.23	21.29	21.22	
100	QPSK	135	0	21.25	21.26	21.24	
100	QPSK	135	69	21.29	21.31	21.24	21.5
100	QPSK	135	138	21.25	21.27	21.18	21.5
100	QPSK	270	0	21.27	21.33	21.24	
100	16QAM	1	1	21.26	21.32	21.19	
100	64QAM	1	1	21.20	21.31	21.25	21.5
100	256QAM	1	1	21.22	21.26	21.25	21.5
Channel				649668	656000	662332	21.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.21	21.33	21.20	
Channel				649334	656000	662666	21.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.28	21.30	21.25	
Channel				649000	656000	663000	21.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.27	21.31	21.15	
Channel				648668	656000	663332	21.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.29	21.28	21.15	
Channel				648334	656000	663666	21.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.22	21.30	21.17	
Channel				648000	656000	664000	21.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.25	21.27	21.18	
Channel				647668	656000	664332	21.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.24	21.24	21.23	
Channel				647334	656000	664666	21.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.23	21.28	21.21	
Channel				647168	656000	664832	21.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.21	21.31	21.24	
Channel				647000	656000	665000	21.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.20	21.30	21.18	



<FR1 n77_HPUE_Ant 8_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	27.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.85	26.89	26.80	
100	PI/2 BPSK	1	137	26.79	26.87	26.68	27.5
100	PI/2 BPSK	1	271	26.67	26.73	26.57	
100	PI/2 BPSK	135	0	26.80	26.84	26.72	
100	PI/2 BPSK	135	69	26.79	26.83	26.73	27.5
100	PI/2 BPSK	135	138	26.56	26.69	26.60	27.5
100	PI/2 BPSK	270	0	26.75	26.80	26.65	
100	QPSK	1	1	26.68	26.81	26.67	
100	QPSK	1	137	26.76	26.87	26.70	27.5
100	QPSK	1	271	26.80	26.87	26.69	
100	QPSK	135	0	26.71	26.77	26.66	
100	QPSK	135	69	26.70	26.78	26.61	27.5
100	QPSK	135	138	26.60	26.67	26.48	27.5
100	QPSK	270	0	26.70	26.79	26.69	
100	16QAM	1	1	26.74	26.83	26.69	
100	64QAM	1	1	25.32	25.43	25.29	26.0
100	256QAM	1	1	22.89	22.96	22.85	24.0
Channel				649668	656000	662332	27.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.71	26.74	26.64	
Channel				649334	656000	662666	27.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.78	26.80	26.64	
Channel				649000	656000	663000	27.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.68	26.82	26.61	
Channel				648668	656000	663332	27.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.77	26.79	26.72	
Channel				648334	656000	663666	27.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.84	26.86	26.80	
Channel				648000	656000	664000	27.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.68	26.73	26.63	
Channel				647668	656000	664332	27.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.77	26.82	26.68	
Channel				647334	656000	664666	27.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.78	26.76	26.70	
Channel				647168	656000	664832	27.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.66	26.77	26.77	
Channel				647000	656000	665000	27.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.85	26.71	26.79	



<FR1 n77_HPUE_Ant 8_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	26.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.61	25.70	25.62	
100	PI/2 BPSK	1	137	25.33	25.46	25.37	26.3
100	PI/2 BPSK	1	271	25.20	25.38	25.26	
100	PI/2 BPSK	135	0	25.31	25.34	25.25	
100	PI/2 BPSK	135	69	25.29	25.38	25.31	26.3
100	PI/2 BPSK	135	138	25.08	25.19	25.14	26.3
100	PI/2 BPSK	270	0	25.22	25.28	25.14	
100	QPSK	1	1	25.28	25.40	25.34	
100	QPSK	1	137	25.43	25.52	25.44	26.3
100	QPSK	1	271	25.26	25.48	25.35	
100	QPSK	135	0	25.17	25.37	25.19	
100	QPSK	135	69	25.25	25.36	25.25	26.3
100	QPSK	135	138	25.14	25.27	25.27	26.3
100	QPSK	270	0	25.09	25.24	25.24	
100	16QAM	1	1	25.26	25.46	25.39	
100	64QAM	1	1	25.42	25.43	25.38	26.3
100	256QAM	1	1	23.41	23.41	23.36	24.3
Channel				649668	656000	662332	26.3
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.54	25.60	25.57	
Channel				649334	656000	662666	26.3
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.53	25.63	25.53	
Channel				649000	656000	663000	26.3
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.50	25.59	25.55	
Channel				648668	656000	663332	26.3
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.56	25.66	25.53	
Channel				648334	656000	663666	26.3
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.49	25.63	25.49	
Channel				648000	656000	664000	26.3
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.52	25.58	25.51	
Channel				647668	656000	664332	26.3
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.57	25.59	25.56	
Channel				647334	656000	664666	26.3
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.55	25.64	25.57	
Channel				647168	656000	664832	26.3
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.51	25.60	25.55	
Channel				647000	656000	665000	26.3
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.56	25.57	25.56	



<FR1 n77_HPUE_Ant 8_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.62	22.40	22.53	
100	PI/2 BPSK	1	137	22.45	22.30	22.42	23.3
100	PI/2 BPSK	1	271	22.47	22.24	22.33	
100	PI/2 BPSK	135	0	22.52	22.23	22.35	
100	PI/2 BPSK	135	69	22.43	22.23	22.33	23.3
100	PI/2 BPSK	135	138	22.50	22.20	22.39	23.3
100	PI/2 BPSK	270	0	22.45	22.22	22.43	
100	QPSK	1	1	22.42	22.27	22.41	
100	QPSK	1	137	22.42	22.22	22.33	23.3
100	QPSK	1	271	22.46	22.28	22.41	
100	QPSK	135	0	22.52	22.25	22.38	
100	QPSK	135	69	22.48	22.24	22.33	23.3
100	QPSK	135	138	22.46	22.20	22.38	23.3
100	QPSK	270	0	22.42	22.30	22.40	
100	16QAM	1	1	22.51	22.24	22.39	
100	64QAM	1	1	22.46	22.23	22.37	23.3
100	256QAM	1	1	22.49	22.24	22.35	23.3
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.59	22.37	22.50	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.59	22.38	22.51	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.59	22.38	22.51	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.60	22.37	22.50	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.60	22.38	22.51	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.60	22.37	22.50	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.60	22.38	22.50	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.60	22.38	22.50	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.59	22.37	22.50	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.59	22.37	22.51	



<FR1 n77_HPUE_Ant 8_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	21.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.22	21.00	21.13	
100	PI/2 BPSK	1	137	21.05	20.90	21.02	21.5
100	PI/2 BPSK	1	271	21.07	20.84	20.93	
100	PI/2 BPSK	135	0	21.12	20.83	20.95	
100	PI/2 BPSK	135	69	21.03	20.83	20.93	21.5
100	PI/2 BPSK	135	138	21.10	20.80	20.99	
100	PI/2 BPSK	270	0	21.05	20.82	21.03	
100	QPSK	1	1	21.02	20.87	21.01	21.5
100	QPSK	1	137	21.02	20.82	20.93	
100	QPSK	1	271	21.06	20.88	21.01	
100	QPSK	135	0	21.12	20.85	20.98	21.5
100	QPSK	135	69	21.08	20.84	20.93	
100	QPSK	135	138	21.06	20.80	20.98	
100	QPSK	270	0	21.02	20.90	21.00	21.5
100	16QAM	1	1	21.11	20.84	20.99	
100	64QAM	1	1	21.06	20.83	20.97	
100	256QAM	1	1	21.09	20.84	20.95	21.5
Channel				649668	656000	662332	21.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.04	20.89	20.97	
Channel				649334	656000	662666	21.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.11	20.83	20.93	
Channel				649000	656000	663000	21.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.03	20.89	21.02	
Channel				648668	656000	663332	21.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.11	20.80	20.94	
Channel				648334	656000	663666	21.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.12	20.86	21.01	
Channel				648000	656000	664000	21.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.09	20.84	20.96	
Channel				647668	656000	664332	21.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.09	20.82	20.94	
Channel				647334	656000	664666	21.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.11	20.83	20.93	
Channel				647168	656000	664832	21.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.02	20.84	20.99	
Channel				647000	656000	665000	21.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.12	20.86	20.95	



<FR1 n77_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.05		21.5
100	PI/2 BPSK	1	137		20.90		
100	PI/2 BPSK	1	271		20.93		
100	PI/2 BPSK	135	0		20.89		21.5
100	PI/2 BPSK	135	69		20.88		21.5
100	PI/2 BPSK	135	138		20.84		21.5
100	PI/2 BPSK	270	0		20.88		
100	QPSK	1	1		20.96		21.5
100	QPSK	1	137		20.97		
100	QPSK	1	271		20.90		
100	QPSK	135	0		20.90		21.5
100	QPSK	135	69		20.86		21.5
100	QPSK	135	138		20.89		21.5
100	QPSK	270	0		20.93		
100	16QAM	1	1		21.01		21.5
100	64QAM	1	1		21.04		21.5
100	256QAM	1	1		21.04		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.01	21.03	21.00	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.84	21.03	20.87	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.85	20.91	20.86	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.85	20.93	20.82	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.00	20.86	20.86	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.86	20.95	20.99	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.92	21.00	20.83	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.85	20.91	20.94	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.88	20.84	20.85	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.93	20.85	20.95	21.5



<FR1 n77_Ant 9_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.17		
100	PI/2 BPSK	1	137		18.05		18.5
100	PI/2 BPSK	1	271		18.07		
100	PI/2 BPSK	135	0		18.03		
100	PI/2 BPSK	135	69		18.02		18.5
100	PI/2 BPSK	135	138		17.98		18.5
100	PI/2 BPSK	270	0		17.97		
100	QPSK	1	1		18.07		
100	QPSK	1	137		17.97		18.5
100	QPSK	1	271		18.05		
100	QPSK	135	0		17.97		
100	QPSK	135	69		18.03		18.5
100	QPSK	135	138		17.99		18.5
100	QPSK	270	0		17.99		
100	16QAM	1	1		18.03		
100	64QAM	1	1		18.01		18.5
100	256QAM	1	1		18.04		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.03	18.03	18.03	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.83	17.91	17.93	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.84	17.88	17.92	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.83	17.91	17.86	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.92	17.91	17.85	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.90	17.87	17.88	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.93	17.88	17.89	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.91	17.84	17.88	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.87	17.92	17.92	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.88	17.89	17.92	



<FR1 n77_Ant 8_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		
100	PI/2 BPSK	1	137		24.86		25.0
100	PI/2 BPSK	1	271		24.81		
100	PI/2 BPSK	135	0		24.87		
100	PI/2 BPSK	135	69		24.86		25.0
100	PI/2 BPSK	135	138		24.74		25.0
100	PI/2 BPSK	270	0		24.84		
100	QPSK	1	1		24.85		
100	QPSK	1	137		24.88		25.0
100	QPSK	1	271		24.88		
100	QPSK	135	0		24.86		
100	QPSK	135	69		24.90		25.0
100	QPSK	135	138		24.76		25.0
100	QPSK	270	0		24.90		
100	16QAM	1	1		24.91		
100	64QAM	1	1		23.38		23.5
100	256QAM	1	1		21.30		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.87	24.91	24.84	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.71	24.89	24.65	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.67	24.79	24.69	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.71	24.87	24.80	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.72	24.75	24.69	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.69	24.88	24.82	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.80	24.71	24.74	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.74	24.88	24.81	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.85	24.87	24.72	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.72	24.80	24.84	



<FR1 n77_Ant 8_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.79		23.3
100	PI/2 BPSK	1	137		22.72		
100	PI/2 BPSK	1	271		22.65		
100	PI/2 BPSK	135	0		22.70		23.3
100	PI/2 BPSK	135	69		22.71		23.3
100	PI/2 BPSK	135	138		22.58		23.3
100	PI/2 BPSK	270	0		22.65		
100	QPSK	1	1		22.74		23.3
100	QPSK	1	137		22.71		
100	QPSK	1	271		22.68		
100	QPSK	135	0		22.72		23.3
100	QPSK	135	69		22.71		23.3
100	QPSK	135	138		22.54		23.3
100	QPSK	270	0		22.69		
100	16QAM	1	1		22.74		23.3
100	64QAM	1	1		22.75		23.3
100	256QAM	1	1		20.79		21.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.65	22.69	22.75	23.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.74	22.69	22.67	23.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.65	22.72	22.68	23.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.71	22.66	22.69	23.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.74	22.69	22.68	23.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.67	22.68	22.67	23.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.72	22.75	22.66	23.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.68	22.67	22.73	23.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.74	22.69	22.67	23.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.73	22.69	22.75	23.3



<FR1 n77_Ant 8_DSI 1 (WLAN ON)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.40		20.3
100	PI/2 BPSK	1	137		19.28		
100	PI/2 BPSK	1	271		19.21		
100	PI/2 BPSK	135	0		19.35		20.3
100	PI/2 BPSK	135	69		19.29		20.3
100	PI/2 BPSK	135	138		19.30		20.3
100	PI/2 BPSK	270	0		19.20		
100	QPSK	1	1		19.28		20.3
100	QPSK	1	137		19.23		
100	QPSK	1	271		19.24		
100	QPSK	135	0		19.21		20.3
100	QPSK	135	69		19.24		20.3
100	QPSK	135	138		19.21		20.3
100	QPSK	270	0		19.20		
100	16QAM	1	1		19.22		20.3
100	64QAM	1	1		19.21		20.3
100	256QAM	1	1		19.21		20.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.27	19.35	19.31	20.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.24	19.32	19.28	20.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.24	19.33	19.29	20.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.24	19.33	19.28	20.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.24	19.32	19.29	20.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.25	19.33	19.28	20.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.25	19.32	19.28	20.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.25	19.32	19.28	20.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.25	19.32	19.29	20.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.24	19.32	19.29	20.3



<FR1 n77_Ant 8_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.10		18.5
100	PI/2 BPSK	1	137		17.98		
100	PI/2 BPSK	1	271		17.91		
100	PI/2 BPSK	135	0		18.05		18.5
100	PI/2 BPSK	135	69		17.99		18.5
100	PI/2 BPSK	135	138		18.00		18.5
100	PI/2 BPSK	270	0		17.90		
100	QPSK	1	1		17.98		18.5
100	QPSK	1	137		17.93		
100	QPSK	1	271		17.94		
100	QPSK	135	0		17.91		18.5
100	QPSK	135	69		17.94		18.5
100	QPSK	135	138		17.91		18.5
100	QPSK	270	0		17.90		
100	16QAM	1	1		17.92		18.5
100	64QAM	1	1		17.91		18.5
100	256QAM	1	1		17.91		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.96	17.90	17.92	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.82	17.79	17.74	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.81	17.73	17.77	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.78	17.78	17.73	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.80	17.77	17.76	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.76	17.76	17.78	18.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.78	17.79	17.72	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.78	17.75	17.80	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.78	17.78	17.79	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.81	17.70	17.76	18.5



<FR1 n77_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.93		22.0
100	PI/2 BPSK	1	137		21.71		
100	PI/2 BPSK	1	271		21.62		
100	PI/2 BPSK	135	0		21.76		22.0
100	PI/2 BPSK	135	69		21.75		22.0
100	PI/2 BPSK	135	138		21.70		22.0
100	PI/2 BPSK	270	0		21.73		
100	QPSK	1	1		21.84		22.0
100	QPSK	1	137		21.81		
100	QPSK	1	271		21.66		
100	QPSK	135	0		21.76		22.0
100	QPSK	135	69		21.70		22.0
100	QPSK	135	138		21.67		22.0
100	QPSK	270	0		21.69		
100	16QAM	1	1		21.92		22.0
100	64QAM	1	1		21.90		22.0
100	256QAM	1	1		21.42		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.68	21.64	21.67	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.65	21.62	21.66	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.65	21.63	21.64	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.65	21.62	21.65	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.65	21.62	21.64	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.63	21.64	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.66	21.63	21.65	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.65	21.61	21.66	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.67	21.63	21.66	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.66	21.62	21.66	22.0



<FR1 n77_Ant 3_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.95		20.7
100	PI/2 BPSK	1	137		19.75		
100	PI/2 BPSK	1	271		19.79		
100	PI/2 BPSK	135	0		19.80		20.7
100	PI/2 BPSK	135	69		19.82		20.7
100	PI/2 BPSK	135	138		19.75		20.7
100	PI/2 BPSK	270	0		19.81		
100	QPSK	1	1		19.83		20.7
100	QPSK	1	137		19.77		
100	QPSK	1	271		19.82		
100	QPSK	135	0		19.82		20.7
100	QPSK	135	69		19.77		20.7
100	QPSK	135	138		19.75		20.7
100	QPSK	270	0		19.82		
100	16QAM	1	1		19.79		20.7
100	64QAM	1	1		19.77		20.7
100	256QAM	1	1		19.77		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.82	19.89	19.85	20.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.78	19.80	19.83	20.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.81	19.82	19.80	20.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.81	19.76	19.85	20.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.82	19.84	19.78	20.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.85	19.75	19.75	20.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.82	19.77	19.81	20.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.75	19.78	19.75	20.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.77	19.83	19.80	20.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.84	19.77	19.83	20.7



<FR1 n77_Ant 4_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.95		22.0
100	PI/2 BPSK	1	137		21.74		
100	PI/2 BPSK	1	271		21.24		
100	PI/2 BPSK	135	0		21.80		22.0
100	PI/2 BPSK	135	69		21.75		22.0
100	PI/2 BPSK	135	138		21.42		22.0
100	PI/2 BPSK	270	0		21.71		
100	QPSK	1	1		21.94		22.0
100	QPSK	1	137		21.69		
100	QPSK	1	271		21.16		
100	QPSK	135	0		21.82		22.0
100	QPSK	135	69		21.75		22.0
100	QPSK	135	138		21.37		22.0
100	QPSK	270	0		21.36		
100	16QAM	1	1		21.80		22.0
100	64QAM	1	1		20.55		22.0
100	256QAM	1	1		18.45		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.70	21.75	21.80	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.73	21.67	21.80	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.81	21.67	21.81	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.74	21.71	21.69	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.71	21.78	21.63	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.71	21.71	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.73	21.80	21.72	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.66	21.72	21.76	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.76	21.81	21.79	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.74	21.63	21.77	22.0



<FR1 n77_Ant 4_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.15		19.2
100	PI/2 BPSK	1	137		19.12		
100	PI/2 BPSK	1	271		19.08		
100	PI/2 BPSK	135	0		19.05		19.2
100	PI/2 BPSK	135	69		19.11		19.2
100	PI/2 BPSK	135	138		19.06		19.2
100	PI/2 BPSK	270	0		19.12		
100	QPSK	1	1		19.10		19.2
100	QPSK	1	137		19.08		
100	QPSK	1	271		19.07		
100	QPSK	135	0		19.11		19.2
100	QPSK	135	69		19.13		19.2
100	QPSK	135	138		19.10		19.2
100	QPSK	270	0		19.07		
100	16QAM	1	1		19.05		19.2
100	64QAM	1	1		19.08		19.2
100	256QAM	1	1		18.55		19.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.94	18.98	19.02	19.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.97	18.94	18.97	19.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.94	19.00	18.90	19.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.01	18.95	19.00	19.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.91	18.92	18.92	19.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.94	19.02	19.03	19.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.92	19.05	19.00	19.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.08	18.97	19.06	19.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.08	19.10	18.91	19.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.06	19.05	18.94	19.2



<FR1 n77_Ant 4_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.28		16.3
100	PI/2 BPSK	1	137		16.17		
100	PI/2 BPSK	1	271		16.11		
100	PI/2 BPSK	135	0		16.18		16.3
100	PI/2 BPSK	135	69		16.15		16.3
100	PI/2 BPSK	135	138		16.17		16.3
100	PI/2 BPSK	270	0		16.14		
100	QPSK	1	1		16.13		16.3
100	QPSK	1	137		16.08		
100	QPSK	1	271		16.12		
100	QPSK	135	0		16.10		16.3
100	QPSK	135	69		16.08		16.3
100	QPSK	135	138		15.97		16.3
100	QPSK	270	0		15.89		
100	16QAM	1	1		16.03		16.3
100	64QAM	1	1		15.97		16.3
100	256QAM	1	1		15.98		16.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.11	16.10	16.08	16.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.98	15.98	15.93	16.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.97	15.96	15.91	16.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.99	15.99	15.98	16.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.92	15.96	15.96	16.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.95	15.90	15.89	16.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.98	15.96	15.92	16.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.96	15.93	15.90	16.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.99	15.97	15.98	16.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.92	15.92	15.97	16.3



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n77_HPUE_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.25		24.5
100	PI/2 BPSK	1	137		24.21		
100	PI/2 BPSK	1	271		24.15		
100	PI/2 BPSK	135	0		24.21		24.5
100	PI/2 BPSK	135	69		24.18		24.5
100	PI/2 BPSK	135	138		24.17		24.5
100	PI/2 BPSK	270	0		24.15		
100	QPSK	1	1		24.24		24.5
100	QPSK	1	137		24.16		
100	QPSK	1	271		24.20		
100	QPSK	135	0		24.16		24.5
100	QPSK	135	69		24.20		24.5
100	QPSK	135	138		24.12		24.5
100	QPSK	270	0		24.16		
100	16QAM	1	1		24.18		24.5
100	64QAM	1	1		23.24		23.5
100	256QAM	1	1		21.17		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.17	24.23	24.11	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.15	24.15	23.91	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.10	24.10	23.94	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.05	24.09	23.91	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.98	24.03	23.99	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.13	24.12	24.02	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.04	24.18	24.01	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.05	24.11	23.92	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.13	24.10	24.11	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.09	24.14	23.91	24.5



<FR1 n77_HPUE_Ant 9_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.33		21.5
100	PI/2 BPSK	1	137		21.22		
100	PI/2 BPSK	1	271		21.20		
100	PI/2 BPSK	135	0		21.19		21.5
100	PI/2 BPSK	135	69		21.14		21.5
100	PI/2 BPSK	135	138		21.13		21.5
100	PI/2 BPSK	270	0		21.19		
100	QPSK	1	1		21.14		21.5
100	QPSK	1	137		21.13		
100	QPSK	1	271		21.21		
100	QPSK	135	0		21.15		21.5
100	QPSK	135	69		21.13		21.5
100	QPSK	135	138		21.21		21.5
100	QPSK	270	0		21.14		
100	16QAM	1	1		21.15		21.5
100	64QAM	1	1		21.13		21.5
100	256QAM	1	1		21.14		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.21	21.20	21.15	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.04	21.08	20.99	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.07	21.04	21.05	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.05	21.04	21.04	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.09	21.06	20.97	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.05	21.03	20.95	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.10	21.07	20.95	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.09	21.03	21.00	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.02	21.03	20.97	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.10	21.04	21.00	21.5



<FR1 n77_HPUE_Ant 8_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		27.04		27.5
100	PI/2 BPSK	1	137		26.95		
100	PI/2 BPSK	1	271		26.84		
100	PI/2 BPSK	135	0		26.95		27.5
100	PI/2 BPSK	135	69		26.92		27.5
100	PI/2 BPSK	135	138		26.81		27.5
100	PI/2 BPSK	270	0		26.93		
100	QPSK	1	1		27.02		27.5
100	QPSK	1	137		26.93		
100	QPSK	1	271		26.83		
100	QPSK	135	0		26.89		27.5
100	QPSK	135	69		26.91		27.5
100	QPSK	135	138		26.81		27.5
100	QPSK	270	0		26.92		
100	16QAM	1	1		26.94		27.5
100	64QAM	1	1		25.70		26.0
100	256QAM	1	1		23.50		24.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.89	27.00	26.91	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.69	26.91	26.74	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.81	26.96	26.88	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.83	26.84	26.82	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.83	26.93	26.71	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.80	26.84	26.73	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.74	26.93	26.75	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.78	26.85	26.89	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.80	26.89	26.73	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.73	26.80	26.76	27.5



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n77_HPUE_Ant 8_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.79		26.3
100	PI/2 BPSK	1	137		25.71		
100	PI/2 BPSK	1	271		25.67		
100	PI/2 BPSK	135	0		25.68		26.3
100	PI/2 BPSK	135	69		25.71		26.3
100	PI/2 BPSK	135	138		25.60		26.3
100	PI/2 BPSK	270	0		25.67		
100	QPSK	1	1		25.74		26.3
100	QPSK	1	137		25.77		
100	QPSK	1	271		25.68		
100	QPSK	135	0		25.74		26.3
100	QPSK	135	69		25.72		26.3
100	QPSK	135	138		25.58		26.3
100	QPSK	270	0		25.68		
100	16QAM	1	1		25.74		26.3
100	64QAM	1	1		24.79		26.3
100	256QAM	1	1		22.78		24.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.70	25.70	25.73	26.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.75	25.66	25.75	26.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.75	25.69	25.68	26.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.68	25.71	25.73	26.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.71	25.74	25.74	26.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.70	25.73	25.72	26.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.65	25.68	25.68	26.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.74	25.69	25.70	26.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.66	25.67	25.67	26.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.72	25.65	25.75	26.3



<FR1 n77_HPUE_Ant 8_DSI 1 (WLAN ON)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.45		23.3
100	PI/2 BPSK	1	137		22.34		
100	PI/2 BPSK	1	271		22.32		
100	PI/2 BPSK	135	0		22.37		23.3
100	PI/2 BPSK	135	69		22.32		23.3
100	PI/2 BPSK	135	138		22.34		23.3
100	PI/2 BPSK	270	0		22.29		
100	QPSK	1	1		22.35		23.3
100	QPSK	1	137		22.29		
100	QPSK	1	271		22.35		
100	QPSK	135	0		22.30		23.3
100	QPSK	135	69		22.31		23.3
100	QPSK	135	138		22.34		23.3
100	QPSK	270	0		22.29		
100	16QAM	1	1		22.25		23.3
100	64QAM	1	1		22.25		23.3
100	256QAM	1	1		22.25		23.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.34	22.42	22.37	23.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.31	22.39	22.34	23.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.40	22.34	23.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.31	22.40	22.35	23.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.32	22.40	22.34	23.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.32	22.39	22.34	23.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.31	22.39	22.34	23.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.31	22.40	22.34	23.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.31	22.39	22.35	23.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.31	22.40	22.35	23.3



<FR1 n77_HPUE_Ant 8_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.25		21.5
100	PI/2 BPSK	1	137		21.14		
100	PI/2 BPSK	1	271		21.12		
100	PI/2 BPSK	135	0		21.17		21.5
100	PI/2 BPSK	135	69		21.12		21.5
100	PI/2 BPSK	135	138		21.14		21.5
100	PI/2 BPSK	270	0		21.09		
100	QPSK	1	1		21.15		21.5
100	QPSK	1	137		21.09		
100	QPSK	1	271		21.15		
100	QPSK	135	0		21.10		21.5
100	QPSK	135	69		21.11		21.5
100	QPSK	135	138		21.14		21.5
100	QPSK	270	0		21.09		
100	16QAM	1	1		21.05		21.5
100	64QAM	1	1		21.05		21.5
100	256QAM	1	1		21.05		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.09	21.15	21.06	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.92	21.05	20.86	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.98	21.01	20.94	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.99	20.96	20.93	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.90	21.02	20.92	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.94	21.04	20.90	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.92	20.95	20.87	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.98	20.97	20.89	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.91	21.01	20.87	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.97	20.99	20.87	21.5



<FR1 n78_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.00		21.5
100	PI/2 BPSK	1	137		20.92		
100	PI/2 BPSK	1	271		20.99		
100	PI/2 BPSK	135	0		20.97		21.5
100	PI/2 BPSK	135	69		20.96		21.5
100	PI/2 BPSK	135	138		20.92		21.5
100	PI/2 BPSK	270	0		20.94		
100	QPSK	1	1		20.95		21.5
100	QPSK	1	137		20.99		
100	QPSK	1	271		20.95		
100	QPSK	135	0		20.92		21.5
100	QPSK	135	69		20.93		21.5
100	QPSK	135	138		20.89		21.5
100	QPSK	270	0		20.93		
100	16QAM	1	1		20.98		21.5
100	64QAM	1	1		20.98		21.5
100	256QAM	1	1		20.96		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.90	20.97	20.93	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.88	20.93	20.75	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.85	20.94	20.78	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.90	20.87	20.73	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.87	20.84	20.93	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.82	20.92	20.87	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.87	20.93	20.74	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.71	20.87	20.87	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.82	20.81	20.74	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.76	20.88	20.77	21.5



<FR1 n78_Ant 9_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.33		18.5
100	PI/2 BPSK	1	137		18.18		
100	PI/2 BPSK	1	271		18.17		
100	PI/2 BPSK	135	0		18.15		18.5
100	PI/2 BPSK	135	69		18.16		18.5
100	PI/2 BPSK	135	138		18.19		18.5
100	PI/2 BPSK	270	0		18.14		
100	QPSK	1	1		18.22		18.5
100	QPSK	1	137		18.17		
100	QPSK	1	271		18.23		
100	QPSK	135	0		18.15		18.5
100	QPSK	135	69		18.15		18.5
100	QPSK	135	138		18.15		18.5
100	QPSK	270	0		18.16		
100	16QAM	1	1		18.21		18.5
100	64QAM	1	1		18.15		18.5
100	256QAM	1	1		18.15		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.21	18.16	18.14	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.09	17.97	17.96	18.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.06	17.97	17.96	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.07	18.00	17.95	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.08	17.97	17.99	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.08	18.06	17.98	18.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.01	18.04	17.95	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.05	18.04	17.96	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.03	18.05	18.03	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.10	18.02	18.04	18.5



<FR1 n78_Ant 8_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.70		
100	PI/2 BPSK	1	137		24.60		25.0
100	PI/2 BPSK	1	271		24.51		
100	PI/2 BPSK	135	0		24.51		
100	PI/2 BPSK	135	69		24.49		25.0
100	PI/2 BPSK	135	138		24.50		25.0
100	PI/2 BPSK	270	0		24.45		
100	QPSK	1	1		24.64		
100	QPSK	1	137		24.69		25.0
100	QPSK	1	271		24.63		
100	QPSK	135	0		24.48		
100	QPSK	135	69		24.50		25.0
100	QPSK	135	138		24.53		25.0
100	QPSK	270	0		24.45		
100	16QAM	1	1		24.68		
100	64QAM	1	1		23.52		24.0
100	256QAM	1	1		21.32		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.65	24.68	24.66	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.59	24.57	24.55	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.45	24.57	24.55	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.57	24.50	24.56	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.57	24.61	24.66	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.65	24.53	24.60	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.45	24.62	24.53	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.56	24.56	24.53	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.60	24.62	24.65	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.57	24.67	24.53	



<FR1 n78_Ant 8_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.76		23.3
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.60		
100	PI/2 BPSK	135	0		22.50		23.3
100	PI/2 BPSK	135	69		22.60		23.3
100	PI/2 BPSK	135	138		22.50		23.3
100	PI/2 BPSK	270	0		22.54		
100	QPSK	1	1		22.55		23.3
100	QPSK	1	137		22.74		
100	QPSK	1	271		22.65		
100	QPSK	135	0		22.45		23.3
100	QPSK	135	69		22.60		23.3
100	QPSK	135	138		22.50		23.3
100	QPSK	270	0		22.51		
100	16QAM	1	1		22.66		23.3
100	64QAM	1	1		22.56		23.3
100	256QAM	1	1		20.61		21.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.64	22.68	22.63	23.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.70	22.67	22.68	23.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.62	22.64	22.65	23.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.67	22.69	22.72	23.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.67	22.63	22.62	23.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.70	22.66	22.62	23.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.70	22.67	22.66	23.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.64	22.70	22.69	23.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.69	22.67	22.66	23.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.69	22.63	22.68	23.3



<FR1 n78_Ant 8_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.17		20.3
100	PI/2 BPSK	1	137		18.90		
100	PI/2 BPSK	1	271		19.01		
100	PI/2 BPSK	135	0		19.02		20.3
100	PI/2 BPSK	135	69		18.93		20.3
100	PI/2 BPSK	135	138		18.99		20.3
100	PI/2 BPSK	270	0		19.01		
100	QPSK	1	1		18.94		20.3
100	QPSK	1	137		19.08		
100	QPSK	1	271		19.02		
100	QPSK	135	0		18.94		20.3
100	QPSK	135	69		18.94		20.3
100	QPSK	135	138		19.06		20.3
100	QPSK	270	0		18.96		
100	16QAM	1	1		18.99		20.3
100	64QAM	1	1		18.93		20.3
100	256QAM	1	1		19.00		20.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.07	19.15	19.12	20.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.03	19.12	19.08	20.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.03	19.12	19.09	20.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.04	19.12	19.09	20.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.04	19.12	19.08	20.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.03	19.12	19.08	20.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.03	19.11	19.08	20.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.04	19.11	19.08	20.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.03	19.12	19.08	20.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.04	19.11	19.08	20.3



<FR1 n78_Ant 8_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.87		
100	PI/2 BPSK	1	137		17.60		18.5
100	PI/2 BPSK	1	271		17.71		
100	PI/2 BPSK	135	0		17.72		
100	PI/2 BPSK	135	69		17.63		18.5
100	PI/2 BPSK	135	138		17.69		18.5
100	PI/2 BPSK	270	0		17.71		
100	QPSK	1	1		17.64		
100	QPSK	1	137		17.78		18.5
100	QPSK	1	271		17.72		
100	QPSK	135	0		17.64		
100	QPSK	135	69		17.64		18.5
100	QPSK	135	138		17.76		18.5
100	QPSK	270	0		17.66		
100	16QAM	1	1		17.69		
100	64QAM	1	1		17.63		18.5
100	256QAM	1	1		17.70		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.74	17.68	17.69	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.60	17.57	17.54	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.55	17.58	17.59	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.62	17.53	17.51	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.58	17.53	17.55	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.63	17.57	17.51	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.54	17.50	17.50	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.61	17.58	17.52	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.60	17.52	17.50	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.54	17.53	17.55	



<FR1 n78_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.97		22.0
100	PI/2 BPSK	1	137		21.89		
100	PI/2 BPSK	1	271		21.74		
100	PI/2 BPSK	135	0		21.80		22.0
100	PI/2 BPSK	135	69		21.78		22.0
100	PI/2 BPSK	135	138		21.70		22.0
100	PI/2 BPSK	270	0		21.72		
100	QPSK	1	1		21.76		22.0
100	QPSK	1	137		21.96		
100	QPSK	1	271		21.82		
100	QPSK	135	0		21.74		22.0
100	QPSK	135	69		21.83		22.0
100	QPSK	135	138		21.74		22.0
100	QPSK	270	0		21.70		
100	16QAM	1	1		21.87		22.0
100	64QAM	1	1		21.87		22.0
100	256QAM	1	1		21.33		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.68	21.70	21.65	22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.67	21.67	21.64	22.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.67	21.69	21.62	22.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.65	21.67	21.62	22.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.65	21.67	21.63	22.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.65	21.68	21.63	22.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.66	21.68	21.62	22.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.66	21.69	21.62	22.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.65	21.68	21.63	22.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.66	21.68	21.62	22.0



<FR1 n78_Ant 3_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.80		
100	PI/2 BPSK	1	137		19.64		20.7
100	PI/2 BPSK	1	271		19.63		
100	PI/2 BPSK	135	0		19.68		
100	PI/2 BPSK	135	69		19.69		20.7
100	PI/2 BPSK	135	138		19.58		20.7
100	PI/2 BPSK	270	0		19.68		
100	QPSK	1	1		19.73		
100	QPSK	1	137		19.64		20.7
100	QPSK	1	271		19.68		
100	QPSK	135	0		19.70		
100	QPSK	135	69		19.62		20.7
100	QPSK	135	138		19.58		20.7
100	QPSK	270	0		19.72		
100	16QAM	1	1		19.62		
100	64QAM	1	1		19.64		20.7
100	256QAM	1	1		19.57		20.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.67	19.64	19.69	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.66	19.68	19.61	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.68	19.70	19.66	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.69	19.60	19.60	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.61	19.67	19.65	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.70	19.67	19.67	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.67	19.64	19.62	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.61	19.64	19.68	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.65	19.65	19.66	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.60	19.61	19.64	



<FR1 n78_Ant 4_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.65		22.0
100	PI/2 BPSK	1	137		21.60		
100	PI/2 BPSK	1	271		21.49		
100	PI/2 BPSK	135	0		21.64		22.0
100	PI/2 BPSK	135	69		21.63		22.0
100	PI/2 BPSK	135	138		21.46		22.0
100	PI/2 BPSK	270	0		21.58		
100	QPSK	1	1		21.52		22.0
100	QPSK	1	137		21.52		
100	QPSK	1	271		21.60		
100	QPSK	135	0		21.13		22.0
100	QPSK	135	69		21.58		22.0
100	QPSK	135	138		20.93		22.0
100	QPSK	270	0		21.06		
100	16QAM	1	1		21.40		22.0
100	64QAM	1	1		20.80		22.0
100	256QAM	1	1		17.78		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.53	21.54	21.58	22.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.51	21.55	21.51	22.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.44	21.50	21.52	22.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.58	21.43	21.51	22.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.45	21.57	21.59	22.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.60	21.50	21.51	22.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.49	21.44	21.43	22.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.54	21.56	21.58	22.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.62	21.55	21.56	22.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.50	21.61	21.43	22.0



<FR1 n78_Ant 4_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.75		19.2
100	PI/2 BPSK	1	137		18.53		
100	PI/2 BPSK	1	271		18.58		
100	PI/2 BPSK	135	0		18.51		19.2
100	PI/2 BPSK	135	69		18.59		19.2
100	PI/2 BPSK	135	138		18.57		19.2
100	PI/2 BPSK	270	0		18.55		
100	QPSK	1	1		18.64		19.2
100	QPSK	1	137		18.60		
100	QPSK	1	271		18.51		
100	QPSK	135	0		18.57		19.2
100	QPSK	135	69		18.66		19.2
100	QPSK	135	138		18.58		19.2
100	QPSK	270	0		18.47		
100	16QAM	1	1		18.52		19.2
100	64QAM	1	1		18.59		19.2
100	256QAM	1	1		17.57		18.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.68	18.52	18.59	19.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.52	18.53	18.52	19.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.53	18.53	18.59	19.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.58	18.62	18.66	19.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.59	18.50	18.61	19.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.65	18.56	18.67	19.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.55	18.54	18.62	19.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.61	18.54	18.58	19.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.70	18.64	18.67	19.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.62	18.69	18.59	19.2



<FR1 n78_Ant 4_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		15.95		
100	PI/2 BPSK	1	137		15.82		16.3
100	PI/2 BPSK	1	271		15.79		
100	PI/2 BPSK	135	0		15.88		
100	PI/2 BPSK	135	69		15.78		16.3
100	PI/2 BPSK	135	138		15.79		16.3
100	PI/2 BPSK	270	0		15.82		
100	QPSK	1	1		15.70		
100	QPSK	1	137		15.73		16.3
100	QPSK	1	271		15.54		
100	QPSK	135	0		15.55		
100	QPSK	135	69		15.61		16.3
100	QPSK	135	138		15.59		16.3
100	QPSK	270	0		15.60		
100	16QAM	1	1		15.88		
100	64QAM	1	1		15.83		16.3
100	256QAM	1	1		15.87		16.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.88	15.80	15.82	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.73	15.61	15.72	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.73	15.61	15.68	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.76	15.68	15.69	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.70	15.65	15.72	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.75	15.66	15.64	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.78	15.63	15.71	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.70	15.64	15.72	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.76	15.60	15.64	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.69	15.64	15.68	



<FR1 n78_Ant 4_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		15.95		
100	PI/2 BPSK	1	137		15.82		16.3
100	PI/2 BPSK	1	271		15.79		
100	PI/2 BPSK	135	0		15.88		
100	PI/2 BPSK	135	69		15.78		16.3
100	PI/2 BPSK	135	138		15.79		16.3
100	PI/2 BPSK	270	0		15.82		
100	QPSK	1	1		15.70		
100	QPSK	1	137		15.73		16.3
100	QPSK	1	271		15.54		
100	QPSK	135	0		15.55		
100	QPSK	135	69		15.61		16.3
100	QPSK	135	138		15.59		16.3
100	QPSK	270	0		15.60		
100	16QAM	1	1		15.88		
100	64QAM	1	1		15.83		16.3
100	256QAM	1	1		15.87		16.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.88	15.80	15.82	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.73	15.61	15.72	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.73	15.61	15.68	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.76	15.68	15.69	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.70	15.65	15.72	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.75	15.66	15.64	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.78	15.63	15.71	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.70	15.64	15.72	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.76	15.60	15.64	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.69	15.64	15.68	



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n78_HPUE_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.40		24.5
100	PI/2 BPSK	1	137		24.31		
100	PI/2 BPSK	1	271		24.11		
100	PI/2 BPSK	135	0		24.23		24.5
100	PI/2 BPSK	135	69		24.20		24.5
100	PI/2 BPSK	135	138		24.13		24.5
100	PI/2 BPSK	270	0		24.11		
100	QPSK	1	1		24.23		24.5
100	QPSK	1	137		24.38		
100	QPSK	1	271		24.18		
100	QPSK	135	0		24.18		24.5
100	QPSK	135	69		24.23		24.5
100	QPSK	135	138		24.07		24.5
100	QPSK	270	0		24.10		
100	16QAM	1	1		24.31		24.5
100	64QAM	1	1		24.36		24.5
100	256QAM	1	1		23.14		23.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.98	23.85	23.75	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.85	23.55	23.86	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.82	23.83	23.70	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.68	23.54	23.25	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.87	23.84	23.79	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.82	23.75	23.73	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.90	23.82	23.77	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.75	23.74	23.62	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.58	23.63	23.72	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.74	23.86	23.67	24.5



FCC SAR TEST REPORT

Report No. : FA4O2228B

<FR1 n78_HPUE_Ant 9_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.28		21.5
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.16		
100	PI/2 BPSK	135	0		21.10		21.5
100	PI/2 BPSK	135	69		21.14		21.5
100	PI/2 BPSK	135	138		21.09		21.5
100	PI/2 BPSK	270	0		21.09		
100	QPSK	1	1		21.11		21.5
100	QPSK	1	137		21.17		
100	QPSK	1	271		21.16		
100	QPSK	135	0		21.16		21.5
100	QPSK	135	69		21.08		21.5
100	QPSK	135	138		21.17		21.5
100	QPSK	270	0		21.11		
100	16QAM	1	1		21.15		21.5
100	64QAM	1	1		21.09		21.5
100	256QAM	1	1		21.09		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.16	21.15	21.15	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.00	20.99	20.98	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.02	20.97	20.99	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.06	21.01	21.03	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.02	21.01	21.02	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.06	21.05	20.99	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.01	21.04	21.04	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.03	20.96	20.97	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.98	21.03	21.04	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.99	20.95	20.99	21.5



<FR1 n78_HPUE_Ant 8_DSI 0>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.88		27.5
100	PI/2 BPSK	1	137		26.75		
100	PI/2 BPSK	1	271		26.68		
100	PI/2 BPSK	135	0		26.80		27.0
100	PI/2 BPSK	135	69		26.75		27.5
100	PI/2 BPSK	135	138		26.72		27.0
100	PI/2 BPSK	270	0		26.70		
100	QPSK	1	1		26.81		27.5
100	QPSK	1	137		26.80		
100	QPSK	1	271		26.85		
100	QPSK	135	0		25.73		26.5
100	QPSK	135	69		26.75		27.5
100	QPSK	135	138		25.65		26.5
100	QPSK	270	0		25.74		
100	16QAM	1	1		26.47		26.5
100	64QAM	1	1		24.98		25.0
100	256QAM	1	1		22.95		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.60	26.52	26.54	27.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.59	26.66	26.51	27.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.55	26.52	26.56	27.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.54	26.52	26.66	27.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.51	26.59	26.48	27.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.48	26.61	26.64	27.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.67	26.48	26.51	27.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.58	26.55	26.52	27.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.54	26.68	26.66	27.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.48	26.53	26.66	27.5



<FR1 n78_HPUE_Ant 8_DSI 1 (WLAN OFF)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.71		26.3
100	PI/2 BPSK	1	137		25.51		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		25.50		26.3
100	PI/2 BPSK	135	69		25.53		26.3
100	PI/2 BPSK	135	138		25.47		26.3
100	PI/2 BPSK	270	0		25.46		
100	QPSK	1	1		25.64		26.3
100	QPSK	1	137		25.70		
100	QPSK	1	271		25.62		
100	QPSK	135	0		25.50		26.3
100	QPSK	135	69		25.51		26.3
100	QPSK	135	138		25.44		26.3
100	QPSK	270	0		25.46		
100	16QAM	1	1		25.48		26.3
100	64QAM	1	1		24.73		26.3
100	256QAM	1	1		22.51		24.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.67	25.61	25.65	26.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.65	25.65	25.59	26.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.64	25.63	25.66	26.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.60	25.62	25.57	26.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.67	25.66	25.64	26.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.57	25.59	25.57	26.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.58	25.58	25.61	26.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.64	25.58	25.59	26.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.07	25.62	25.59	26.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.64	25.63	25.59	26.3



<FR1 n78_HPUE_Ant 8_DSI 1 (WLAN ON)>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.18		23.3
100	PI/2 BPSK	1	137		22.07		
100	PI/2 BPSK	1	271		21.99		
100	PI/2 BPSK	135	0		22.02		23.3
100	PI/2 BPSK	135	69		21.99		23.3
100	PI/2 BPSK	135	138		21.99		23.3
100	PI/2 BPSK	270	0		21.94		
100	QPSK	1	1		22.07		23.3
100	QPSK	1	137		22.00		
100	QPSK	1	271		22.07		
100	QPSK	135	0		21.98		23.3
100	QPSK	135	69		21.99		23.3
100	QPSK	135	138		21.92		23.3
100	QPSK	270	0		22.10		
100	16QAM	1	1		21.98		23.3
100	64QAM	1	1		21.98		23.3
100	256QAM	1	1		21.95		23.3
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.09	22.14	22.07	23.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.07	22.11	22.04	23.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.06	22.11	22.05	23.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.07	22.11	22.05	23.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.07	22.11	22.05	23.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.07	22.12	22.04	23.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.06	22.11	22.04	23.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.07	22.11	22.05	23.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.06	22.11	22.05	23.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.07	22.11	22.05	23.3



<FR1 n78_HPUE_Ant 8_DSI 3>Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.88		21.5
100	PI/2 BPSK	1	137		20.77		
100	PI/2 BPSK	1	271		20.69		
100	PI/2 BPSK	135	0		20.72		21.5
100	PI/2 BPSK	135	69		20.69		21.5
100	PI/2 BPSK	135	138		20.69		21.5
100	PI/2 BPSK	270	0		20.64		
100	QPSK	1	1		20.77		21.5
100	QPSK	1	137		20.70		
100	QPSK	1	271		20.77		
100	QPSK	135	0		20.68		21.5
100	QPSK	135	69		20.69		21.5
100	QPSK	135	138		20.62		21.5
100	QPSK	270	0		20.80		
100	16QAM	1	1		20.68		21.5
100	64QAM	1	1		20.68		21.5
100	256QAM	1	1		20.65		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.74	20.75	20.73	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.64	20.56	20.63	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.59	20.63	20.53	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.59	20.59	20.62	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.56	20.56	20.62	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.63	20.63	20.54	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.58	20.64	20.58	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.62	20.57	20.56	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.59	20.65	20.59	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.64	20.65	20.58	21.5



<FR1 n78_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.13		21.5
100	PI/2 BPSK	1	137		21.00		
100	PI/2 BPSK	1	271		21.05		
100	PI/2 BPSK	135	0		20.97		21.5
100	PI/2 BPSK	135	69		20.92		21.5
100	PI/2 BPSK	135	138		20.95		21.5
100	PI/2 BPSK	270	0		20.89		
100	QPSK	1	1		20.94		21.5
100	QPSK	1	137		21.05		
100	QPSK	1	271		21.12		
100	QPSK	135	0		20.95		21.5
100	QPSK	135	69		20.92		21.5
100	QPSK	135	138		20.95		21.5
100	QPSK	270	0		20.94		
100	16QAM	1	1		21.02		21.5
100	64QAM	1	1		21.02		21.5
100	256QAM	1	1		21.05		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.55	20.86	20.99	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.45	20.82	20.89	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.85	20.79	20.58	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.79	20.56	20.82	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.67	20.74	20.85	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.66	20.84	20.52	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.74	20.79	20.72	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.78	20.81	20.75	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.71	20.78	20.74	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.84	20.83	20.71	21.5



<FR1 n78_Ant 9_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.25		18.5
100	PI/2 BPSK	1	137		18.06		
100	PI/2 BPSK	1	271		18.08		
100	PI/2 BPSK	135	0		18.07		18.5
100	PI/2 BPSK	135	69		18.11		18.5
100	PI/2 BPSK	135	138		18.09		18.5
100	PI/2 BPSK	270	0		18.13		
100	QPSK	1	1		18.11		18.5
100	QPSK	1	137		18.15		
100	QPSK	1	271		18.05		
100	QPSK	135	0		18.13		18.5
100	QPSK	135	69		18.14		18.5
100	QPSK	135	138		18.12		18.5
100	QPSK	270	0		18.13		
100	16QAM	1	1		18.06		18.5
100	64QAM	1	1		18.10		18.5
100	256QAM	1	1		18.09		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.09	18.09	18.09	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.92	17.90	17.91	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.98	17.93	17.98	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.96	17.98	17.95	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.95	17.95	17.99	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.98	17.98	17.99	18.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.93	17.96	17.93	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.96	17.97	17.89	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.91	17.99	17.89	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.96	17.91	17.97	18.5



<FR1 n78_Ant 8_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.56		25.0
100	PI/2 BPSK	1	137		24.41		
100	PI/2 BPSK	1	271		24.48		
100	PI/2 BPSK	135	0		24.42		25.0
100	PI/2 BPSK	135	69		24.40		25.0
100	PI/2 BPSK	135	138		24.32		25.0
100	PI/2 BPSK	270	0		24.33		
100	QPSK	1	1		24.41		25.0
100	QPSK	1	137		24.48		
100	QPSK	1	271		24.55		
100	QPSK	135	0		24.36		25.0
100	QPSK	135	69		24.37		25.0
100	QPSK	135	138		24.36		25.0
100	QPSK	270	0		24.32		
100	16QAM	1	1		24.51		25.0
100	64QAM	1	1		23.23		24.0
100	256QAM	1	1		21.13		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.51	24.55	24.53	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.36	24.46	24.38	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.32	24.46	24.40	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.45	24.44	24.47	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.51	24.42	24.48	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.42	24.52	24.42	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.46	24.37	24.51	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.35	24.35	24.52	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.38	24.54	24.47	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.51	24.47	24.41	25.0



<FR1 n78_Ant 8_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.78		23.3
100	PI/2 BPSK	1	137		22.70		
100	PI/2 BPSK	1	271		22.71		
100	PI/2 BPSK	135	0		22.66		23.3
100	PI/2 BPSK	135	69		22.67		23.3
100	PI/2 BPSK	135	138		22.66		23.3
100	PI/2 BPSK	270	0		22.63		
100	QPSK	1	1		22.72		23.3
100	QPSK	1	137		22.71		
100	QPSK	1	271		22.72		
100	QPSK	135	0		22.70		23.3
100	QPSK	135	69		22.68		23.3
100	QPSK	135	138		22.62		23.3
100	QPSK	270	0		22.67		
100	16QAM	1	1		22.74		23.3
100	64QAM	1	1		22.71		23.3
100	256QAM	1	1		20.72		21.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.57	22.55	22.50	23.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.57	22.51	22.52	23.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.55	22.50	22.51	23.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.58	22.58	22.58	23.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.53	22.54	22.58	23.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.50	22.53	22.52	23.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.53	22.56	22.57	23.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.56	22.55	22.58	23.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.57	22.55	22.55	23.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.56	22.57	22.54	23.3



<FR1 n78_Ant 8_DSI 1 (WLAN ON)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.30		20.3
100	PI/2 BPSK	1	137		19.08		
100	PI/2 BPSK	1	271		19.07		
100	PI/2 BPSK	135	0		19.25		20.3
100	PI/2 BPSK	135	69		19.14		20.3
100	PI/2 BPSK	135	138		19.18		20.3
100	PI/2 BPSK	270	0		19.05		
100	QPSK	1	1		19.17		20.3
100	QPSK	1	137		19.10		
100	QPSK	1	271		19.06		
100	QPSK	135	0		19.10		20.3
100	QPSK	135	69		19.06		20.3
100	QPSK	135	138		19.02		20.3
100	QPSK	270	0		19.08		
100	16QAM	1	1		19.04		20.3
100	64QAM	1	1		19.06		20.3
100	256QAM	1	1		19.09		20.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.15	19.20	19.18	20.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.11	19.18	19.14	20.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.13	19.15	19.16	20.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.10	19.16	19.16	20.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.12	19.15	19.13	20.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.11	19.16	19.14	20.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.11	19.16	19.13	20.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.11	19.15	19.14	20.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.13	19.18	19.15	20.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.10	19.15	19.14	20.3



<FR1 n78_Ant 8_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.00		18.5
100	PI/2 BPSK	1	137		17.78		
100	PI/2 BPSK	1	271		17.77		
100	PI/2 BPSK	135	0		17.95		18.5
100	PI/2 BPSK	135	69		17.84		18.5
100	PI/2 BPSK	135	138		17.88		18.5
100	PI/2 BPSK	270	0		17.75		
100	QPSK	1	1		17.87		18.5
100	QPSK	1	137		17.80		
100	QPSK	1	271		17.76		
100	QPSK	135	0		17.80		18.5
100	QPSK	135	69		17.76		18.5
100	QPSK	135	138		17.72		18.5
100	QPSK	270	0		17.78		
100	16QAM	1	1		17.74		18.5
100	64QAM	1	1		17.76		18.5
100	256QAM	1	1		17.79		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.89	17.90	17.87	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.70	17.74	17.76	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.69	17.73	17.71	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.70	17.78	17.68	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.72	17.77	17.69	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.70	17.76	17.73	18.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.76	17.70	17.68	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.78	17.70	17.77	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.78	17.74	17.68	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.75	17.80	17.67	18.5



<FR1 n78_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.95		22.0
100	PI/2 BPSK	1	137		21.90		
100	PI/2 BPSK	1	271		21.90		
100	PI/2 BPSK	135	0		21.87		22.0
100	PI/2 BPSK	135	69		21.85		22.0
100	PI/2 BPSK	135	138		21.77		22.0
100	PI/2 BPSK	270	0		21.83		
100	QPSK	1	1		21.91		22.0
100	QPSK	1	137		21.90		
100	QPSK	1	271		21.85		
100	QPSK	135	0		21.87		22.0
100	QPSK	135	69		21.84		22.0
100	QPSK	135	138		21.77		22.0
100	QPSK	270	0		21.82		
100	16QAM	1	1		21.93		22.0
100	64QAM	1	1		21.92		22.0
100	256QAM	1	1		21.48		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.78	21.80	21.79	22.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.75	21.77	21.78	22.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.76	21.79	21.78	22.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.75	21.79	21.76	22.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.77	21.77	21.78	22.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.76	21.78	21.77	22.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.75	21.77	21.77	22.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.75	21.78	21.77	22.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.75	21.78	21.78	22.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.77	21.79	21.76	22.0



<FR1 n78_Ant 3_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.71		
100	PI/2 BPSK	1	137		19.44		20.7
100	PI/2 BPSK	1	271		19.52		
100	PI/2 BPSK	135	0		19.56		
100	PI/2 BPSK	135	69		19.54		20.7
100	PI/2 BPSK	135	138		19.45		20.7
100	PI/2 BPSK	270	0		19.52		
100	QPSK	1	1		19.57		
100	QPSK	1	137		19.44		20.7
100	QPSK	1	271		19.57		
100	QPSK	135	0		19.54		
100	QPSK	135	69		19.43		20.7
100	QPSK	135	138		19.40		20.7
100	QPSK	270	0		19.62		
100	16QAM	1	1		19.49		
100	64QAM	1	1		19.47		20.7
100	256QAM	1	1		19.41		20.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.47	19.54	19.57	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.53	19.51	19.57	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.48	19.51	19.51	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.50	19.46	19.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.50	19.44	19.57	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.51	19.54	19.52	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.53	19.54	19.49	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.52	19.50	19.53	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.53	19.48	19.63	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.55	19.58	19.60	



<FR1 n78_Ant 4_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.79		
100	PI/2 BPSK	1	137		21.64		22.0
100	PI/2 BPSK	1	271		21.47		
100	PI/2 BPSK	135	0		21.63		
100	PI/2 BPSK	135	69		21.61		22.0
100	PI/2 BPSK	135	138		21.57		22.0
100	PI/2 BPSK	270	0		21.67		
100	QPSK	1	1		21.72		
100	QPSK	1	137		21.69		22.0
100	QPSK	1	271		21.48		
100	QPSK	135	0		21.64		
100	QPSK	135	69		21.60		22.0
100	QPSK	135	138		21.59		22.0
100	QPSK	270	0		21.59		
100	16QAM	1	1		21.77		
100	64QAM	1	1		20.28		22.0
100	256QAM	1	1		18.20		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.63	21.60	21.59	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.59	21.53	21.53	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.49	21.60	21.50	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.52	21.51	21.46	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.57	21.52	21.54	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.56	21.62	21.60	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.48	21.51	21.52	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.62	21.50	21.62	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.51	21.58	21.46	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.52	21.54	21.52	



<FR1 n78_Ant 4_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.08		19.2
100	PI/2 BPSK	1	137		19.00		
100	PI/2 BPSK	1	271		18.94		
100	PI/2 BPSK	135	0		18.89		19.2
100	PI/2 BPSK	135	69		18.93		19.2
100	PI/2 BPSK	135	138		18.97		19.2
100	PI/2 BPSK	270	0		18.95		
100	QPSK	1	1		19.05		19.2
100	QPSK	1	137		19.06		
100	QPSK	1	271		18.95		
100	QPSK	135	0		19.07		19.2
100	QPSK	135	69		19.00		19.2
100	QPSK	135	138		18.99		19.2
100	QPSK	270	0		18.92		
100	16QAM	1	1		18.92		19.2
100	64QAM	1	1		19.05		19.2
100	256QAM	1	1		18.12		18.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.02	18.92	19.06	19.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.97	18.98	18.99	19.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.92	19.04	18.98	19.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.02	19.07	19.00	19.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.03	18.99	18.92	19.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.96	18.92	18.96	19.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.03	18.98	18.92	19.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.04	18.99	18.93	19.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.93	19.04	18.91	19.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.01	19.04	19.05	19.2



<FR1 n78_Ant 4_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.13		16.3
100	PI/2 BPSK	1	137		15.99		
100	PI/2 BPSK	1	271		15.99		
100	PI/2 BPSK	135	0		16.03		16.3
100	PI/2 BPSK	135	69		16.00		16.3
100	PI/2 BPSK	135	138		16.03		16.3
100	PI/2 BPSK	270	0		15.94		
100	QPSK	1	1		16.00		16.3
100	QPSK	1	137		15.89		
100	QPSK	1	271		15.98		
100	QPSK	135	0		15.94		16.3
100	QPSK	135	69		15.94		16.3
100	QPSK	135	138		15.80		16.3
100	QPSK	270	0		15.72		
100	16QAM	1	1		15.90		16.3
100	64QAM	1	1		15.82		16.3
100	256QAM	1	1		15.79		16.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.84	15.96	15.85	16.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.83	15.98	15.95	16.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.88	15.94	15.91	16.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.87	16.01	15.89	16.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.87	15.91	15.87	16.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.83	16.01	15.88	16.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.88	15.93	15.86	16.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.90	16.01	15.89	16.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.85	15.92	15.91	16.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.87	15.98	15.85	16.3



<FR1 n78_HPUE_Ant 9_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.15		24.5
100	PI/2 BPSK	1	137		24.03		
100	PI/2 BPSK	1	271		24.10		
100	PI/2 BPSK	135	0		24.08		24.5
100	PI/2 BPSK	135	69		24.05		24.5
100	PI/2 BPSK	135	138		24.01		24.5
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.01		24.5
100	QPSK	1	137		24.10		
100	QPSK	1	271		23.68		
100	QPSK	135	0		23.50		24.5
100	QPSK	135	69		23.52		24.5
100	QPSK	135	138		23.55		24.5
100	QPSK	270	0		23.51		
100	16QAM	1	1		23.52		24.5
100	64QAM	1	1		23.54		24.5
100	256QAM	1	1		22.35		23.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.81	23.86	23.73	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.77	23.74	23.79	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.88	23.74	23.90	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.79	23.92	23.85	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.83	23.83	23.84	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.88	23.78	23.89	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.82	23.74	23.83	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.73	23.75	23.83	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.92	23.87	23.88	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.77	23.81	23.81	24.5



<FR1 n78_HPUE_Ant 9_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.22		21.5
100	PI/2 BPSK	1	137		21.10		
100	PI/2 BPSK	1	271		21.03		
100	PI/2 BPSK	135	0		21.12		21.5
100	PI/2 BPSK	135	69		21.10		21.5
100	PI/2 BPSK	135	138		21.02		21.5
100	PI/2 BPSK	270	0		21.03		
100	QPSK	1	1		21.12		21.5
100	QPSK	1	137		21.12		
100	QPSK	1	271		21.06		
100	QPSK	135	0		21.03		21.5
100	QPSK	135	69		21.11		21.5
100	QPSK	135	138		21.12		21.5
100	QPSK	270	0		21.11		
100	16QAM	1	1		21.04		21.5
100	64QAM	1	1		21.05		21.5
100	256QAM	1	1		21.09		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.08	21.10	21.05	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.93	20.92	20.89	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.93	21.00	20.88	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.92	20.94	20.91	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.88	20.91	20.90	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.98	20.95	20.91	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.97	20.90	20.89	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.94	20.95	20.89	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.89	20.99	20.90	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.95	20.99	20.87	21.5



<FR1 n78_HPUE_Ant 8_DSI 0>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		27.45		27.5
100	PI/2 BPSK	1	137		27.32		
100	PI/2 BPSK	1	271		27.34		
100	PI/2 BPSK	135	0		27.08		27.5
100	PI/2 BPSK	135	69		26.89		27.5
100	PI/2 BPSK	135	138		26.85		27.5
100	PI/2 BPSK	270	0		26.88		
100	QPSK	1	1		27.31		27.5
100	QPSK	1	137		27.37		
100	QPSK	1	271		27.41		
100	QPSK	135	0		26.45		27.5
100	QPSK	135	69		27.28		27.5
100	QPSK	135	138		26.37		27.5
100	QPSK	270	0		26.40		
100	16QAM	1	1		26.48		27.5
100	64QAM	1	1		26.43		26.5
100	256QAM	1	1		22.90		24.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	27.14	27.06	27.20	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	27.15	27.05	27.08	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	27.21	27.14	27.09	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	27.24	27.17	27.06	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	27.23	27.17	27.17	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	27.19	27.06	27.11	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	27.24	27.05	27.05	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	27.09	27.11	27.09	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	27.22	27.19	27.13	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	27.12	27.11	27.16	27.5



<FR1 n78_HPUE_Ant 8_DSI 1 (WLAN OFF)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.79		26.3
100	PI/2 BPSK	1	137		25.72		
100	PI/2 BPSK	1	271		25.77		
100	PI/2 BPSK	135	0		25.68		26.3
100	PI/2 BPSK	135	69		25.71		26.3
100	PI/2 BPSK	135	138		25.68		26.3
100	PI/2 BPSK	270	0		25.67		
100	QPSK	1	1		25.68		26.3
100	QPSK	1	137		25.75		
100	QPSK	1	271		25.74		
100	QPSK	135	0		25.70		26.3
100	QPSK	135	69		25.70		26.3
100	QPSK	135	138		25.62		26.3
100	QPSK	270	0		25.68		
100	16QAM	1	1		25.77		26.3
100	64QAM	1	1		24.78		26.3
100	256QAM	1	1		22.64		24.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.65	25.63	25.66	26.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.64	25.65	25.58	26.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.62	25.57	25.59	26.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.58	25.61	25.59	26.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.60	25.61	25.62	26.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.59	25.60	25.65	26.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.66	25.66	25.59	26.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.58	25.57	25.61	26.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.64	25.64	25.58	26.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.57	25.62	25.57	26.3



<FR1 n78_HPUE_Ant 8_DSI 1 (WLAN ON)>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.26		23.3
100	PI/2 BPSK	1	137		22.21		
100	PI/2 BPSK	1	271		22.20		
100	PI/2 BPSK	135	0		22.22		23.3
100	PI/2 BPSK	135	69		22.21		23.3
100	PI/2 BPSK	135	138		22.20		23.3
100	PI/2 BPSK	270	0		22.10		
100	QPSK	1	1		22.19		23.3
100	QPSK	1	137		22.12		
100	QPSK	1	271		22.16		
100	QPSK	135	0		22.19		23.3
100	QPSK	135	69		22.11		23.3
100	QPSK	135	138		22.23		23.3
100	QPSK	270	0		22.16		
100	16QAM	1	1		22.09		23.3
100	64QAM	1	1		22.09		23.3
100	256QAM	1	1		22.14		23.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.08	22.15	22.13	23.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.03	22.11	22.09	23.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.05	22.12	22.09	23.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.06	22.11	22.11	23.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.06	22.12	22.08	23.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.06	22.11	22.11	23.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.04	22.12	22.10	23.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.06	22.13	22.10	23.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.06	22.12	22.09	23.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.06	22.12	22.10	23.3



<FR1 n78_HPUE_Ant 8_DSI 3>Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.06		
100	PI/2 BPSK	1	137		21.01		21.5
100	PI/2 BPSK	1	271		21.00		
100	PI/2 BPSK	135	0		21.02		
100	PI/2 BPSK	135	69		21.01		21.5
100	PI/2 BPSK	135	138		21.00		21.5
100	PI/2 BPSK	270	0		20.90		
100	QPSK	1	1		20.99		
100	QPSK	1	137		20.92		21.5
100	QPSK	1	271		20.96		
100	QPSK	135	0		20.99		
100	QPSK	135	69		20.91		21.5
100	QPSK	135	138		21.03		21.5
100	QPSK	270	0		20.96		
100	16QAM	1	1		20.89		
100	64QAM	1	1		20.89		21.5
100	256QAM	1	1		20.94		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.88	20.89	20.88	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.77	20.75	20.73	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.74	20.79	20.76	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.74	20.79	20.76	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.76	20.78	20.76	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.74	20.74	20.74	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.69	20.69	20.74	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.72	20.74	20.74	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.73	20.77	20.72	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.68	20.69	20.71	



<FR1 n77/n78_Ant 9_DSI 0 / DSI 1 (WLAN OFF)>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	21.5
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	20.87	21.10	20.84	
100	PI/2 BPSK	1	137	21.00	21.01	20.97	21.5
100	PI/2 BPSK	1	271	20.88	20.89	20.85	
100	PI/2 BPSK	135	0	20.99	21.00	20.96	
100	PI/2 BPSK	135	69	20.84	20.85	20.81	21.5
100	PI/2 BPSK	135	138	20.87	20.88	20.84	21.5
100	PI/2 BPSK	270	0	20.84	20.85	20.81	
100	QPSK	1	1	20.95	20.96	20.92	
100	QPSK	1	137	21.04	21.05	21.01	21.5
100	QPSK	1	271	20.88	20.89	20.85	
100	QPSK	135	0	20.94	20.95	20.91	
100	QPSK	135	69	20.87	20.88	20.84	21.5
100	QPSK	135	138	20.84	20.85	20.81	21.5
100	QPSK	270	0	20.86	20.87	20.83	
100	16QAM	1	1	20.97	20.98	20.94	
100	64QAM	1	1	21.03	21.04	21.00	21.5
100	256QAM	1	1	20.96	20.97	20.93	21.5
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	20.87	20.79	20.74	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	20.77	20.82	20.81	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	20.76	20.76	20.74	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	20.71	20.70	20.74	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	20.83	20.79	20.80	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.77	20.79	20.67	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.74	20.69	20.69	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.78	20.73	20.87	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.76	20.74	20.83	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.72	20.87	20.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	18.5
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	18.38	18.49	18.33	
100	PI/2 BPSK	1	137	18.14	18.33	18.21	18.5
100	PI/2 BPSK	1	271	18.19	18.29	18.09	
100	PI/2 BPSK	135	0	18.15	18.33	18.12	
100	PI/2 BPSK	135	69	18.13	18.32	18.13	18.5
100	PI/2 BPSK	135	138	18.12	18.30	18.19	
100	PI/2 BPSK	270	0	18.10	18.30	18.10	
100	QPSK	1	1	18.22	18.35	18.23	18.5
100	QPSK	1	137	18.11	18.28	18.16	
100	QPSK	1	271	18.18	18.28	18.09	
100	QPSK	135	0	18.27	18.39	18.21	18.5
100	QPSK	135	69	18.21	18.33	18.23	
100	QPSK	135	138	18.14	18.30	18.14	
100	QPSK	270	0	18.20	18.36	18.21	18.5
100	16QAM	1	1	18.16	18.30	18.20	
100	64QAM	1	1	18.13	18.28	18.14	
100	256QAM	1	1	18.08	18.28	18.16	18.5
Channel				639668	641666	643666	18.5
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	17.94	18.11	18.07	
Channel				639334	641666	644000	18.5
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	17.92	18.06	18.10	
Channel				639000	641666	644332	18.5
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	18.01	18.10	18.10	
Channel				638668	641666	644666	18.5
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	17.97	18.05	18.09	
Channel				638334	641666	645000	18.5
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	17.97	18.11	18.08	
Channel				638000	641666	645332	18.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	17.92	18.09	18.07	
Channel				637668	641666	645666	18.5
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	18.00	18.04	18.00	
Channel				637334	641666	646000	18.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	17.95	18.03	18.09	
Channel				637168	641666	646166	18.5
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	17.98	18.08	18.04	
Channel				637000	641666	646332	18.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	17.92	18.08	18.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	23.4
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	22.80	23.08	22.75	
100	PI/2 BPSK	1	137	22.87	22.97	22.82	23.4
100	PI/2 BPSK	1	271	22.69	22.79	22.64	
100	PI/2 BPSK	135	0	22.76	22.90	22.71	
100	PI/2 BPSK	135	69	22.80	22.86	22.75	23.4
100	PI/2 BPSK	135	138	22.68	22.78	22.63	23.4
100	PI/2 BPSK	270	0	22.77	22.87	22.72	
100	QPSK	1	1	22.85	22.95	22.80	
100	QPSK	1	137	22.97	23.07	22.92	23.4
100	QPSK	1	271	22.79	22.89	22.74	
100	QPSK	135	0	22.73	22.83	22.68	
100	QPSK	135	69	22.82	22.92	22.77	23.4
100	QPSK	135	138	22.70	22.80	22.65	23.4
100	QPSK	270	0	22.79	22.89	22.74	
100	16QAM	1	1	22.92	22.92	22.87	
100	64QAM	1	1	23.00	23.00	22.95	23.4
100	256QAM	1	1	21.36	21.40	21.31	21.4
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	22.67	22.75	22.60	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	22.76	22.62	22.66	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	22.74	22.62	22.63	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	22.79	22.62	22.68	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	22.71	22.75	22.72	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.65	22.76	22.61	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	22.60	22.70	22.72	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	22.73	22.78	22.61	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	22.62	22.64	22.63	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	22.74	22.72	22.75	



<FR1 n77/n78_Ant 8_DSI 1 (WLAN OFF)>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	23.3
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	22.61	22.65	22.62	
100	PI/2 BPSK	1	137	22.51	22.63	22.59	23.3
100	PI/2 BPSK	1	271	22.50	22.61	22.56	
100	PI/2 BPSK	135	0	22.49	22.56	22.46	
100	PI/2 BPSK	135	69	22.46	22.59	22.54	23.3
100	PI/2 BPSK	135	138	22.49	22.54	22.53	23.3
100	PI/2 BPSK	270	0	22.47	22.60	22.53	
100	QPSK	1	1	22.44	22.58	22.48	
100	QPSK	1	137	22.52	22.56	22.52	23.3
100	QPSK	1	271	22.49	22.60	22.46	
100	QPSK	135	0	22.48	22.62	22.58	
100	QPSK	135	69	22.55	22.60	22.55	23.3
100	QPSK	135	138	22.46	22.58	22.50	23.3
100	QPSK	270	0	22.49	22.56	22.52	
100	16QAM	1	1	22.47	22.55	22.44	
100	64QAM	1	1	22.56	22.60	22.51	23.3
100	256QAM	1	1	20.74	20.79	20.70	21.3
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	22.54	22.54	22.55	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	22.51	22.55	22.57	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	22.49	22.60	22.52	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	22.55	22.56	22.50	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	22.57	22.52	22.51	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.47	22.55	22.50	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	22.48	22.58	22.51	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	22.54	22.54	22.49	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	22.52	22.51	22.52	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	22.53	22.61	22.48	



<FR1 n77/n78_Ant 8_DSI 1 (WLAN ON)>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	20.3
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.48	19.47	19.44	
100	PI/2 BPSK	1	137	19.36	19.28	19.25	20.3
100	PI/2 BPSK	1	271	19.42	19.29	19.31	
100	PI/2 BPSK	135	0	19.40	19.32	19.26	
100	PI/2 BPSK	135	69	19.35	19.38	19.26	20.3
100	PI/2 BPSK	135	138	19.37	19.30	19.27	20.3
100	PI/2 BPSK	270	0	19.33	19.28	19.26	
100	QPSK	1	1	19.32	19.33	19.24	
100	QPSK	1	137	19.38	19.35	19.29	20.3
100	QPSK	1	271	19.32	19.34	19.32	
100	QPSK	135	0	19.35	19.36	19.31	
100	QPSK	135	69	19.42	19.37	19.26	20.3
100	QPSK	135	138	19.35	19.38	19.24	20.3
100	QPSK	270	0	19.34	19.36	19.31	
100	16QAM	1	1	19.41	19.37	19.32	
100	64QAM	1	1	19.34	19.38	19.34	20.3
100	256QAM	1	1	19.41	19.35	19.32	20.3
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.45	19.43	19.40	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.45	19.43	19.40	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.45	19.43	19.39	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.45	19.44	19.41	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.46	19.43	19.40	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.45	19.45	19.40	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.44	19.44	19.41	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.46	19.44	19.41	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.43	19.45	19.39	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.44	19.45	19.40	



<FR1 n77/n78_Ant 8_DSI 3> Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	18.5
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	18.02	17.98	17.94	
100	PI/2 BPSK	1	137	17.86	17.78	17.75	18.5
100	PI/2 BPSK	1	271	17.92	17.79	17.81	
100	PI/2 BPSK	135	0	17.90	17.82	17.76	
100	PI/2 BPSK	135	69	17.85	17.88	17.76	18.5
100	PI/2 BPSK	135	138	17.87	17.80	17.77	
100	PI/2 BPSK	270	0	17.83	17.78	17.76	
100	QPSK	1	1	17.82	17.83	17.74	18.5
100	QPSK	1	137	17.88	17.85	17.79	
100	QPSK	1	271	17.82	17.84	17.82	
100	QPSK	135	0	17.85	17.86	17.81	18.5
100	QPSK	135	69	17.92	17.87	17.76	
100	QPSK	135	138	17.85	17.88	17.74	
100	QPSK	270	0	17.84	17.86	17.81	18.5
100	16QAM	1	1	17.91	17.87	17.82	
100	64QAM	1	1	17.84	17.88	17.84	
100	256QAM	1	1	17.91	17.85	17.82	18.5
Channel				639668	641666	643666	18.5
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	17.82	17.78	17.74	
Channel				639334	641666	644000	18.5
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	17.89	17.83	17.81	
Channel				639000	641666	644332	18.5
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	17.85	17.88	17.75	
Channel				638668	641666	644666	18.5
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	17.85	17.79	17.82	
Channel				638334	641666	645000	18.5
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	17.85	17.80	17.74	
Channel				638000	641666	645332	18.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	17.83	17.87	17.82	
Channel				637668	641666	645666	18.5
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	17.85	17.86	17.76	
Channel				637334	641666	646000	18.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	17.89	17.82	17.84	
Channel				637168	641666	646166	18.5
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	17.90	17.85	17.80	
Channel				637000	641666	646332	18.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	17.87	17.78	17.77	



<FR1 n77/n78_Ant 3_DSI 0 / DSI 1 (WLAN OFF)>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	20.4
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	20.13	20.35	20.03	20.4
100	PI/2 BPSK	1	137	20.21	20.13	20.11	
100	PI/2 BPSK	1	271	20.18	20.10	20.08	
100	PI/2 BPSK	135	0	20.17	20.12	20.07	20.4
100	PI/2 BPSK	135	69	20.20	20.09	20.10	20.4
100	PI/2 BPSK	135	138	20.13	20.05	20.03	20.4
100	PI/2 BPSK	270	0	20.14	20.06	20.04	
100	QPSK	1	1	20.24	20.16	20.14	20.4
100	QPSK	1	137	20.29	20.21	20.19	
100	QPSK	1	271	20.22	20.14	20.12	
100	QPSK	135	0	20.17	20.09	20.07	20.4
100	QPSK	135	69	20.12	20.04	20.02	20.4
100	QPSK	135	138	20.07	19.99	19.97	20.4
100	QPSK	270	0	20.10	20.02	20.00	
100	16QAM	1	1	20.30	20.22	20.20	20.4
100	64QAM	1	1	20.27	20.19	20.17	20.4
100	256QAM	1	1	20.31	20.23	20.21	20.4
Channel				639668	641666	643666	20.4
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.97	19.98	20.01	20.4
Channel				639334	641666	644000	20.4
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	20.03	20.07	20.02	20.4
Channel				639000	641666	644332	20.4
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	20.10	20.05	19.95	20.4
Channel				638668	641666	644666	20.4
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.93	20.06	20.13	20.4
Channel				638334	641666	645000	20.4
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.98	20.11	19.99	20.4
Channel				638000	641666	645332	20.4
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.13	20.03	20.07	20.4
Channel				637668	641666	645666	20.4
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.93	20.10	20.01	20.4
Channel				637334	641666	646000	20.4
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.98	20.12	20.04	20.4
Channel				637168	641666	646166	20.4
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.08	20.07	20.09	20.4
Channel				637000	641666	646332	20.4
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.04	19.93	20.10	20.4



<FR1 n77/n78_Ant 3_DSI 3>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	20.4
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.85	19.87	19.75	
100	PI/2 BPSK	1	137	19.66	19.73	19.56	20.4
100	PI/2 BPSK	1	271	19.66	19.69	19.61	
100	PI/2 BPSK	135	0	19.69	19.77	19.57	
100	PI/2 BPSK	135	69	19.66	19.71	19.57	20.4
100	PI/2 BPSK	135	138	19.67	19.70	19.64	20.4
100	PI/2 BPSK	270	0	19.74	19.76	19.58	
100	QPSK	1	1	19.65	19.72	19.57	
100	QPSK	1	137	19.71	19.69	19.55	20.4
100	QPSK	1	271	19.65	19.76	19.63	
100	QPSK	135	0	19.69	19.72	19.56	
100	QPSK	135	69	19.66	19.77	19.62	20.4
100	QPSK	135	138	19.72	19.76	19.58	20.4
100	QPSK	270	0	19.68	19.72	19.55	
100	16QAM	1	1	19.66	19.76	19.57	
100	64QAM	1	1	19.74	19.76	19.57	20.4
100	256QAM	1	1	19.66	19.70	19.62	20.4
Channel				639668	641666	643666	20.4
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.68	19.74	19.56	
Channel				639334	641666	644000	20.4
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.74	19.76	19.55	
Channel				639000	641666	644332	20.4
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.71	19.75	19.57	
Channel				638668	641666	644666	20.4
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.68	19.71	19.65	
Channel				638334	641666	645000	20.4
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.74	19.72	19.63	
Channel				638000	641666	645332	20.4
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.66	19.68	19.64	
Channel				637668	641666	645666	20.4
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.68	19.73	19.55	
Channel				637334	641666	646000	20.4
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.72	19.71	19.64	
Channel				637168	641666	646166	20.4
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.70	19.76	19.64	
Channel				637000	641666	646332	20.4
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.71	19.68	19.63	



<FR1 n77/n78_Ant 4_DSI 0>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	20.4
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.60	19.80	19.44	
100	PI/2 BPSK	1	137	19.25	19.45	19.09	20.4
100	PI/2 BPSK	1	271	18.94	19.14	18.78	
100	PI/2 BPSK	135	0	19.23	19.43	19.07	
100	PI/2 BPSK	135	69	19.18	19.38	19.02	20.4
100	PI/2 BPSK	135	138	19.00	19.20	18.84	20.4
100	PI/2 BPSK	270	0	19.11	19.31	18.95	
100	QPSK	1	1	19.34	19.54	19.18	
100	QPSK	1	137	19.30	19.50	19.14	20.4
100	QPSK	1	271	19.03	19.23	18.87	
100	QPSK	135	0	19.27	19.47	19.11	
100	QPSK	135	69	19.14	19.34	18.98	20.4
100	QPSK	135	138	19.04	19.24	18.88	20.4
100	QPSK	270	0	19.12	19.32	18.96	
100	16QAM	1	1	19.47	19.67	19.31	
100	64QAM	1	1	19.53	19.73	19.37	20.4
100	256QAM	1	1	19.54	19.74	19.38	20.4
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.47	19.54	19.40	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.52	19.56	19.50	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.50	19.56	19.50	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.52	19.48	19.57	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.57	19.59	19.54	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.52	19.53	19.44	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.45	19.41	19.51	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.45	19.47	19.41	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.40	19.49	19.53	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.45	19.60	19.51	



<FR1 n77/n78_Ant 4_DSI 1 (WLAN OFF)>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	19.2
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.10	19.14	19.05	
100	PI/2 BPSK	1	137	19.04	19.08	18.99	19.2
100	PI/2 BPSK	1	271	19.01	19.05	18.96	
100	PI/2 BPSK	135	0	18.93	18.97	18.88	
100	PI/2 BPSK	135	69	18.91	18.95	18.86	19.2
100	PI/2 BPSK	135	138	18.89	18.93	18.84	19.2
100	PI/2 BPSK	270	0	18.90	18.94	18.85	
100	QPSK	1	1	19.03	19.07	18.98	
100	QPSK	1	137	19.01	19.05	18.96	19.2
100	QPSK	1	271	18.97	19.01	18.92	
100	QPSK	135	0	18.91	18.95	18.86	
100	QPSK	135	69	18.98	19.02	18.93	19.2
100	QPSK	135	138	18.93	18.97	18.88	19.2
100	QPSK	270	0	18.95	18.99	18.90	
100	16QAM	1	1	19.06	19.10	19.01	
100	64QAM	1	1	19.04	19.08	18.99	19.2
100	256QAM	1	1	18.16	18.20	18.11	18.2
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.00	19.01	19.02	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.07	19.10	18.94	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.01	18.90	18.94	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.03	19.01	19.02	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.08	19.10	19.02	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	18.90	19.03	19.05	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	18.93	18.92	19.01	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.97	19.03	18.96	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.03	19.06	19.05	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.10	18.94	19.06	



<FR1 n77/n78_Ant 4_DSI 3>Part 96

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	16.3
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	16.00	15.95	15.88	
100	PI/2 BPSK	1	137	15.82	15.75	15.74	16.3
100	PI/2 BPSK	1	271	15.81	15.79	15.68	
100	PI/2 BPSK	135	0	15.91	15.85	15.69	
100	PI/2 BPSK	135	69	15.90	15.84	15.74	16.3
100	PI/2 BPSK	135	138	15.90	15.83	15.68	16.3
100	PI/2 BPSK	270	0	15.84	15.83	15.71	
100	QPSK	1	1	15.84	15.80	15.71	
100	QPSK	1	137	15.70	15.62	15.64	16.3
100	QPSK	1	271	15.71	15.67	15.48	
100	QPSK	135	0	15.76	15.69	15.52	
100	QPSK	135	69	15.73	15.64	15.63	16.3
100	QPSK	135	138	15.75	15.73	15.57	16.3
100	QPSK	270	0	15.64	15.64	15.53	
100	16QAM	1	1	15.60	15.58	15.53	
100	64QAM	1	1	15.81	15.82	15.68	16.3
100	256QAM	1	1	15.85	15.75	15.78	16.3
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	15.90	15.80	15.74	
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	15.81	15.84	15.68	
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	15.86	15.85	15.70	
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	15.88	15.85	15.73	
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	15.89	15.82	15.72	
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	15.89	15.80	15.70	
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	15.81	15.82	15.72	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	15.89	15.77	15.76	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	15.85	15.77	15.71	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	15.89	15.84	15.72	



<CTL>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.51	20.50	98.50	19.30	20.50	98.05	19.32	20.50	20.00	20.50	22.68	23.50	98.05
		6	2437	19.71	20.50		19.39	20.50		19.65	20.50	20.00	20.50	22.84	23.50	
		11	2462	20.36	20.50		19.11	20.50		20.12	20.50	20.34	20.50	23.24	23.50	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	18.00	Not Required	Not Required	Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		6	2437		20.50		20.50				20.50		20.50		23.50	
		11	2462		18.00		18.00				18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		17.50		17.50				17.50		17.50		20.50	
		6	2437		20.50		20.50				20.50		20.50		23.50	
		11	2462		17.50		17.50				17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50		17.50				17.50		17.50		20.50	
		6	2437		20.50		20.50				20.50		20.50		23.50	
		11	2462		17.50		17.50				17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50		17.50				17.50		17.50		20.50	
		6	2437		20.50		20.50				20.50		20.50		23.50	
		11	2462		17.50		17.50				17.50		17.50		20.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	19.00	Not Required	19.00	Not Required	Not Required	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required
		40	5200		20.00		20.00				20.00		20.00		23.00	
		44	5220		20.00		20.00				20.00		20.00		23.00	
		48	5240		19.50		19.50				19.50		19.50		22.50	
	802.11n-HT20 MCS0	36	5180		19.00		19.00			18.55	19.00	18.60	19.00	21.59	22.00	99.63
		40	5200		20.50		20.50				20.50		20.50		23.50	
		44	5220		20.50		20.50				20.50		20.50		23.50	
		48	5240		20.50		20.50				20.50		20.50		23.50	
	802.11n-HT40 MCS0	38	5190		17.50		17.50			17.50	17.50	17.50	17.50	20.50	20.50	Not Required
		46	5230		18.50		18.50				18.50		18.50		21.50	
	802.11ac-VHT20 MCS0	36	5180		19.00		19.00			20.50	19.00	20.50	19.00	20.50	22.00	
		40	5200		20.50		20.50				20.50		20.50		23.50	
		44	5220		20.50		20.50				20.50		20.50		23.50	
		48	5240		20.50		20.50				20.50		20.50		23.50	
	802.11ac-VHT40 MCS0	38	5190		17.50		17.50			17.50	17.50	17.50	17.50	20.50	20.50	
		46	5230		19.00		19.00				19.00		19.00		22.00	
	802.11ac-VHT80 MCS0	42	5210		17.50		17.50			Not Required	17.50	Not Required	17.50	Not Required	20.50	
	802.11ax-HE20 MCS0	36	5180		19.00		19.00				19.00		19.00		22.00	
		40	5200		20.50		20.50				20.50		20.50		23.50	
		44	5220		20.50		20.50				20.50		20.50		23.50	
		48	5240		20.50		20.50				20.50		20.50		23.50	
	802.11ax-HE40 MCS0	38	5190		18.00		18.00				18.00	18.00	18.00	21.00	21.00	
		46	5230		19.00		19.00				19.00		19.00		22.00	
	802.11ax-HE80 MCS0	42	5210		17.50		17.50				17.50		17.50		20.50	



FCC SAR TEST REPORT

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				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	19.50	Not Required	Not Required	19.50	Not Required	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required
		56	5280		20.00			20.00			20.00		20.00		23.00	
		60	5300		20.00			20.00			20.00		20.00		23.00	
		64	5320		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	52	5260		20.50			20.50		19.61	20.50	19.85	20.50	22.74	23.50	99.63
		56	5280		20.50			20.50		19.60	20.50	19.86	20.50	22.74	23.50	
		60	5300		19.00			19.00		18.86	19.00	18.70	19.00	21.79	22.00	
		64	5320		18.50			18.50		17.81	18.50	17.94	18.50	20.89	21.50	
	802.11n-HT40 MCS0	54	5270		19.00			19.00		Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required
		62	5310		16.00			16.00			16.00		16.00		19.00	
	802.11ac-VHT20 MCS0	52	5260		20.50			20.50			20.50		20.50		23.50	
		56	5280		20.50			20.50			20.50		20.50		23.50	
		60	5300		19.00			19.00			19.00		19.00		22.00	
		64	5320		18.50			18.50			18.50		18.50		21.50	
	802.11ac-VHT40 MCS0	54	5270		19.00			19.00			19.00		19.00		22.00	
		62	5310		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT80 MCS0	58	5290		17.00			17.00			17.00		17.00		20.00	
	802.11ac-VHT160 MCS0	50	5250		15.5			15.5			15.5		15.5		18.5	
	802.11ax-HE20 MCS0	52	5260		20.50			20.50			20.50		20.50		23.50	
		56	5280		20.50			20.50			20.50		20.50		23.50	
		60	5300		19.50			19.50			19.50		19.50		22.50	
		64	5320		18.50			18.50			18.50		18.50		21.50	
	802.11ax-HE40 MCS0	54	5270		19.00			19.00			19.00		19.00		22.00	
		62	5310		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	58	5290		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE160 MCS0	50	5250		15.5			15.5			15.5		15.5		18.5	



FCC SAR TEST REPORT

Report No. : FA4O2228B

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	19.00	Not Required	Not Required	19.00	Not Required	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required
		116	5580		19.50			19.50			19.50		19.50		22.50	
		124	5620		20.00			20.00			20.00		20.00		23.00	
		132	5660		20.00			20.00			20.00		20.00		23.00	
		140	5700		19.50			19.50			19.50		19.50		22.50	
		144	5720		20.00			20.00			20.00		20.00		23.00	
	802.11n-HT20 MCS0	100	5500		18.50			18.50		17.67	18.50	18.08	18.50	20.89	21.50	99.63
		116	5580		20.50			20.50		19.85	20.50	19.90	20.50	22.89	23.50	
		124	5620		20.50			20.50		19.78	20.50	20.10	20.50	22.95	23.50	
		132	5660		20.50			20.50		20.40	20.50	20.17	20.50	23.30	23.50	
		140	5700		18.00			18.00		17.85	18.00	17.70	18.00	20.79	21.00	
		144	5720		20.00			20.00		19.68	20.00	19.06	20.00	22.39	23.00	
	802.11n-HT40 MCS0	102	5510		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		110	5550		19.50			19.50			19.50		19.50		22.50	
		126	5630		19.50			19.50			19.50		19.50		22.50	
		134	5670		19.00			19.00			19.00		19.00		22.00	
		142	5710		18.50			18.50			18.50		18.50		21.50	
	802.11ac-VHT20 MCS0	100	5500		18.50			18.50			18.50		18.50		21.50	
		116	5580		20.50			20.50			20.50		20.50		23.50	
		124	5620		20.50			20.50			20.50		20.50		23.50	
		132	5660		20.50			20.50			20.50		20.50		23.50	
		140	5700		18.00			18.00			18.00		18.00		21.00	
	802.11ac-VHT40 MCS0	102	5510		17.50			17.50			17.50		17.50		20.50	
		110	5550		19.50			19.50			19.50		19.50		22.50	
		126	5630		19.50			19.50			19.50		19.50		22.50	
		134	5670		19.00			19.00			19.00		19.00		22.00	
		142	5710		19.00			19.00			19.00		19.00		22.00	
	802.11ac-VHT80 MCS0	106	5530		17.00			17.00			17.00		17.00		20.00	
		122	5610		18.00			18.00		Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		138	5690		20.00			20.00			20.00		20.00		23.00	
	802.11ac-VHT160 MCS0	114	5570		15.50			15.50			15.50		15.50		18.50	
	802.11ax-HE20 MCS0	100	5500		18.50			18.50			18.50		18.50		21.50	
		116	5580		20.50			20.50			20.50		20.50		23.50	
		124	5620		20.50			20.50			20.50		20.50		23.50	
		132	5660		20.50			20.50			20.50		20.50		23.50	
		140	5700		18.50			18.50			18.50		18.50		21.50	
	802.11ax-HE40 MCS0	102	5510		17.50			17.50			17.50		17.50		20.50	
		110	5550		19.50			19.50			19.50		19.50		22.50	
		126	5630		19.50			19.50			19.50		19.50		22.50	
		134	5670		19.00			19.00			19.00		19.00		22.00	
		142	5710		19.00			19.00			19.00		19.00		22.00	
	802.11ax-HE80 MCS0	106	5530		17.00			17.00			17.00		17.00		20.00	
		122	5610		18.50			18.50			18.50		18.50		21.50	
		138	5690		20.00			20.00			20.00		20.00		23.00	
	802.11ax-HE160 MCS0	114	5570		15.50			15.50			15.50		15.50		18.50	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	21.50	Not Required	Not Required	21.50	Not Required	21.29	21.50	21.21	21.50	24.26	24.50	99.20
		157	5785		21.00			21.00		21.00	21.00	20.90	21.00	23.96	24.00	
		165	5825		21.50			21.50		21.29	21.50	21.32	21.50	24.32	24.50	
	802.11n-HT20 MCS0	149	5745		20.50			20.50		Not Required	20.50	Not Required	20.50	Not Required	23.50	Not Required
		157	5785		21.00			21.00			21.00		21.00		24.00	
		165	5825		20.50			20.50			20.50		20.50		23.50	
	802.11n-HT40 MCS0	151	5755		20.50			20.50			20.50		20.50		23.50	
		159	5795		20.00			20.00			20.00		20.00		23.00	
	802.11ac-VHT20 MCS0	149	5745		20.50			20.50			20.50		20.50		23.50	
		157	5785		21.00			21.00			21.00		21.00		24.00	
		165	5825		21.00			21.00			21.00		21.00		24.00	
	802.11ac-VHT40 MCS0	151	5755		20.50			20.50			20.50		20.50		23.50	
		159	5795		20.00			20.00			20.00		20.00		23.00	
	802.11ac-VHT80 MCS0	155	5775		18.00			18.00			18.00		18.00		21.00	
		149	5745		21.00			21.00			21.00		21.00		24.00	
	802.11ax-HE20 MCS0	157	5785		21.00			21.00			21.00		21.00		24.00	
		165	5825		21.00			21.00			21.00		21.00		24.00	
		151	5755		20.50			20.50			20.50		20.50		23.50	
	802.11ax-HE40 MCS0	159	5795		20.50			20.50			20.50		20.50		23.50	
		155	5775		18.50			18.50			18.50		18.50		21.50	
	802.11ax-HE80 MCS0	155	5775		18.50			18.50			18.50		18.50		21.50	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	18.50	Not Required	Not Required	18.50	Not Required	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
		57	6235		18.50			18.50			18.50		18.50		21.50	
		173	6815		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE20 MCS0	1	5955		18.50			18.50			18.50		18.50		21.50	
		57	6235		18.50			18.50			18.50		18.50		21.50	
		173	6815		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE40 MCS0	3	5965		18.50			18.50			18.50		18.50		21.50	
		59	6245		18.50			18.50			18.50		18.50		21.50	
		171	6805		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	7	5985		18.50			18.50			18.50		18.50		21.50	
		71	6305		18.50			18.50			18.50		18.50		21.50	
		167	6785		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE160 MCS0	15	6025		18.50			18.50		18.00	18.50	18.07	18.50	21.05	21.50	99.37
		47	6185		18.50			18.50		18.49	18.50	18.21	18.50	21.36	21.50	
		143	6665		16.50			16.50		15.60	16.50	16.47	16.50	19.07	19.50	

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
WiFi 6E Indoor	802.11a 6Mbps	1	5955	Not Required	3.00	Not Required	Not Required	3.00	Not Required	Not Required	3.00	Not Required	3.00	Not Required	6.00	Not Required				
		57	6235		3.00			3.00			3.00		6.00							
		113	6515		4.00			4.00			4.00		7.00							
		173	6815		4.00			4.00			4.00		7.00							
		233	7115		4.50			4.50			4.50		7.50							
	802.11ax-HE20 MCS0	1	5955		7.50			7.50			7.50		10.50							
		57	6235		7.50			7.50			7.50		10.50							
		113	6515		7.50			7.50			7.50		10.50							
		173	6815		7.50			7.50			7.50		10.50							
		233	7115		7.00			7.00			7.00		10.00							
	802.11ax-HE40 MCS0	3	5965		10.00			10.00			10.00		13.00							
		59	6245		10.00			10.00			10.00		13.00							
		107	6485		10.00			10.00			10.00		13.00							
		171	6805		10.50			10.50			10.50		13.50							
		227	7085		10.50			10.50			10.50		13.50							
	802.11ax-HE80 MCS0	7	5985		12.50			12.50			12.50		15.50							
		71	6305		12.50			12.50			12.50		15.50							
		119	6545		13.00			13.00			13.00		16.00							
		167	6785		13.00			13.00			13.00		16.00							
		215	7025		13.50			13.50			13.50		16.50							
	802.11ax-HE160 MCS0	15	6025		16.00			16.00			15.76		16.00		15.72		16.00	18.75	19.00	99.37
		47	6185		16.00			16.00			15.12		16.00		15.40		16.00	18.27	19.00	
		111	6505		16.50			16.50			15.15		16.50		16.08		16.50	18.65	19.50	
		143	6665		16.50			16.50			15.60		16.50		16.47		16.50	19.07	19.50	
		207	6985		16.00			16.00			15.86		16.00		15.80		16.00	18.84	19.00	



<Set 1 Non-DBS>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.44	19.50	98.35	18.49	19.50	97.90	18.62	19.50	19.30	19.50	21.98	22.50	98.05
		6	2437	18.75	19.50		18.48	19.50		18.71	19.50	19.06	19.50	21.90	22.50	
		11	2462	18.70	19.50		18.14	19.50		18.70	19.50	19.25	19.50	21.99	22.50	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT40 MCS0	38	5190		16.50			16.50		15.65	16.50	16.23	16.50	18.96	19.50	99.76
		46	5230		16.50			16.50			16.36		15.99		19.19	
	802.11ac-VHT20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT40 MCS0	38	5190		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		46	5230		16.50			16.50			16.50		16.50		19.50	
		42	5210		16.50			16.50		16.17	16.50	15.89	16.50	19.04	19.50	99.63
	802.11ac-VHT80 MCS0	42	5210		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE40 MCS0	38	5190		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		46	5230		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	42	5210		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
											16.50		16.50		19.50	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	151	5755		17.50			17.50		17.18	17.50	16.70	17.50	19.96	20.50	99.76
		159	5795		17.50			17.50		16.78	17.50	16.39	17.50	19.60	20.50	
	802.11ac-VHT20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	151	5755		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT80 MCS0	155	5775		17.50			17.50		17.41	17.50	17.10	17.50	20.27	20.50	99.63
	802.11ax-HE20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE40 MCS0	151	5755		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE80 MCS0	155	5775		17.50			17.50			17.50		17.50		20.50	



<Set 1 DBS>

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.44	19.50	98.35	18.49	19.50	97.90	18.62	19.50	19.30	19.50	21.98	22.50	98.05
		6	2437	18.75	19.50		18.48	19.50		18.71	19.50	19.06	19.50	21.90	22.50	
		11	2462	18.70	19.50		18.14	19.50		18.70	19.50	19.25	19.50	21.99	22.50	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.50			19.50			19.50		19.50		22.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT40 MCS0	38	5190		16.50			16.50		15.65	16.50	16.23	16.50	18.96	19.50	99.76
		46	5230		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT40 MCS0	48	5240		16.50			16.50			16.50		16.50		19.50	
		38	5190		16.50			16.50		16.17	16.50	15.89	16.50	19.04	19.50	99.63
		46	5230		16.50			16.50			16.50		16.50		19.50	
		42	5210		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE20 MCS0	36	5180		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		40	5200		16.50			16.50			16.50		16.50		19.50	
		44	5220		16.50			16.50			16.50		16.50		19.50	
		48	5240		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE40 MCS0	38	5190		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		46	5230		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	42	5210		16.50			16.50			16.50		16.50		19.50	



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	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	149	5745		17.50			17.50			17.50		17.50		20.50	
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT40 MCS0	151	5755		17.50			17.50		17.18	17.50	16.70	17.50	19.96	20.50	99.76
		159	5795		17.50			17.50		16.78	17.50	16.39	17.50	19.60	20.50	
	802.11ac-VHT20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT40 MCS0	151	5755		17.50			17.50			17.50		17.50		20.50	
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT80 MCS0	155	5775		17.50			17.50		17.41	17.50	17.10	17.50	20.27	20.50	99.63
	802.11ax-HE20 MCS0	149	5745		17.50			17.50		Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		157	5785		17.50			17.50			17.50		17.50		20.50	
		165	5825		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE40 MCS0	151	5755		17.50			17.50			17.50		17.50		20.50	
		159	5795		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE80 MCS0	155	5775		17.50			17.50			17.50		17.50		20.50	



<Set 2 Non-DBS>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.88	19.00	98.35	18.09	19.00	97.90	17.88	19.00	18.52	19.00	21.22	22.00	98.05
		6	2437	17.86	19.00		18.18	19.00		17.96	19.00	18.38	19.00	21.19	22.00	
		11	2462	17.77	19.00		18.19	19.00		17.62	19.00	18.21	19.00	20.94	22.00	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	17.00	Not Required	Not Required	17.00	Not Required	Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required
		40	5200		17.00			17.00			17.00		17.00		20.00	
		44	5220		17.00			17.00			17.00		17.00		20.00	
		48	5240		17.00			17.00			17.00		17.00		20.00	
	802.11n-HT20 MCS0	36	5180		17.00			17.00			17.00		17.00		20.00	
		40	5200		17.00			17.00			17.00		17.00		20.00	
		44	5220		17.00			17.00			17.00		17.00		20.00	
		48	5240		17.00			17.00			17.00		17.00		20.00	
	802.11n-HT40 MCS0	38	5190		17.00			17.00			17.00		17.00		20.00	
		46	5230		17.00			17.00			17.00		17.00		20.00	
	802.11ac-VHT20 MCS0	36	5180		17.00			17.00			17.00		17.00		20.00	
		40	5200		17.00			17.00			17.00		17.00		20.00	
		44	5220		17.00			17.00			17.00		17.00		20.00	
		48	5240		17.00			17.00			17.00		17.00		20.00	
	802.11ac-VHT40 MCS0	38	5190		17.00			17.00			17.00		17.00		20.00	
		46	5230		17.00			17.00			17.00		17.00		20.00	
	802.11ac-VHT80 MCS0	42	5210		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE20 MCS0	36	5180		17.00			17.00			17.00		17.00		20.00	
		40	5200		17.00			17.00			17.00		17.00		20.00	
		44	5220		17.00			17.00			17.00		17.00		20.00	
		48	5240		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE40 MCS0	38	5190		17.00			17.00			17.00		17.00		20.00	
		46	5230		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE80 MCS0	42	5210		17.00			17.00			17.00		17.00		20.00	



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Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	17.00	Not Required	Not Required	17.00	Not Required	Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required
		56	5280		17.00			17.00			17.00		17.00		20.00	
		60	5300		17.00			17.00			17.00		17.00		20.00	
		64	5320		17.00			17.00			17.00		17.00		20.00	
	802.11n-HT20 MCS0	52	5260		17.00			17.00			17.00		17.00		20.00	
		56	5280		17.00			17.00			17.00		17.00		20.00	
		60	5300		17.00			17.00			17.00		17.00		20.00	
		64	5320		17.00			17.00			17.00		17.00		20.00	
	802.11n-HT40 MCS0	54	5270		17.00			17.00		Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required
		62	5310		16.00			16.00			16.00		16.00		19.00	
	802.11ac-VHT20 MCS0	52	5260		17.00			17.00			17.00		17.00		20.00	
		56	5280		17.00			17.00			17.00		17.00		20.00	
		60	5300		17.00			17.00			17.00		17.00		20.00	
		64	5320		17.00			17.00			17.00		17.00		20.00	
	802.11ac-VHT40 MCS0	54	5270		17.00			17.00			17.00		17.00		20.00	
		62	5310		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT80 MCS0	58	5290		17.00			17.00		16.86	17.00	16.78	17.00	19.83	20.00	99.63
	802.11ac-VHT160 MCS0	50	5250		15.5			15.5		Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
	802.11ax-HE20 MCS0	52	5260		17.00			17.00			17.00		17.00		20.00	
		56	5280		17.00			17.00			17.00		17.00		20.00	
		60	5300		17.00			17.00			17.00		17.00		20.00	
		64	5320		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE40 MCS0	54	5270		17.00			17.00			17.00		17.00		20.00	
		62	5310		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	58	5290		17.00			17.00			17.00		17.00		20.00	
	802.11ax-HE160 MCS0	50	5250		15.5			15.5			15.50		15.50		18.50	



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Report No. : FA4O2228B

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		116	5580		16.50			16.50			16.50		16.50		19.50	
		124	5620		16.50			16.50			16.50		16.50		19.50	
		132	5660		16.50			16.50			16.50		16.50		19.50	
		140	5700		16.50			16.50			16.50		16.50		19.50	
		144	5720		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT20 MCS0	100	5500		16.50			16.50			16.50		16.50		19.50	
		116	5580		16.50			16.50			16.50		16.50		19.50	
		124	5620		16.50			16.50			16.50		16.50		19.50	
		132	5660		16.50			16.50			16.50		16.50		19.50	
		140	5700		16.50			16.50			16.50		16.50		19.50	
		144	5720		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT40 MCS0	102	5510		16.50			16.50			16.50		16.50		19.50	
		110	5550		16.50			16.50			16.50		16.50		19.50	
		126	5630		16.50			16.50			16.50		16.50		19.50	
		134	5670		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT20 MCS0	100	5500		16.50			16.50			16.50		16.50		19.50	
		116	5580		16.50			16.50			16.50		16.50		19.50	
		124	5620		16.50			16.50			16.50		16.50		19.50	
		132	5660		16.50			16.50			16.50		16.50		19.50	
		140	5700		16.50			16.50			16.50		16.50		19.50	
		144	5720		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT40 MCS0	102	5510		16.50			16.50			16.50		16.50		19.50	
		110	5550		16.50			16.50			16.50		16.50		19.50	
		126	5630		16.50			16.50			16.50		16.50		19.50	
		134	5670		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT80 MCS0	106	5530		16.50			16.50			16.03	16.50	15.97	16.50	19.01	19.50
		122	5610		16.50			16.50			16.27	16.50	15.95	16.50	19.12	19.50
		138	5690		16.50			16.50			16.35	16.50	15.77	16.50	19.08	19.50
		114	5570		15.50			15.50			Not Required	15.50	Not Required	15.50	Not Required	99.63
	802.11ac-VHT160 MCS0	100	5500		16.50			16.50				16.50		16.50		
		116	5580		16.50			16.50				16.50		16.50		
		124	5620		16.50			16.50				16.50		16.50		
		132	5660		16.50			16.50				16.50		16.50		
		140	5700		16.50			16.50				16.50		16.50		
	802.11ax-HE20 MCS0	100	5500		16.50			16.50				16.50		16.50		
		116	5580		16.50			16.50				16.50		16.50		
		124	5620		16.50			16.50				16.50		16.50		
		132	5660		16.50			16.50				16.50		16.50		
	802.11ax-HE40 MCS0	102	5510		16.50			16.50				16.50		16.50		
		110	5550		16.50			16.50				16.50		16.50		
		126	5630		16.50			16.50				16.50		16.50		
		134	5670		16.50			16.50				16.50		16.50		
	802.11ax-HE80 MCS0	106	5530		16.50			16.50				16.50		16.50		
		122	5610		16.50			16.50				16.50		16.50		
		138	5690		16.50			16.50				16.50		16.50		
		114	5570		15.50			15.50				15.50		15.50		
	802.11ax-HE160 MCS0	100	5500		16.50			16.50				16.50		16.50		
		116	5580		16.50			16.50				16.50		16.50		
		124	5620		16.50			16.50				16.50		16.50		
		132	5660		16.50			16.50				16.50		16.50		
	802.11ax-HE20 MCS0	100	5500		16.50			16.50				16.50		16.50		
		116	5580		16.50			16.50				16.50		16.50		
		124	5620		16.50			16.50				16.50		16.50		
		132	5660		16.50			16.50				16.50		16.50		
	802.11ax-HE40 MCS0	102	5510		16.50			16.50				16.50		16.50		
		110	5550		16.50			16.50				16.50		16.50		
		126	5630		16.50			16.50				16.50		16.50		
		134	5670		16.50			16.50				16.50		16.50		
	802.11ax-HE80 MCS0	106	5530		16.50			16.50				16.50		16.50		
		122	5610		16.50			16.50				16.50		16.50		
		138	5690		16.50			16.50				16.50		16.50		
		114	5570		15.50			15.50				15.50		15.50		



	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		157	5785		16.50			16.50			16.50		16.50		19.50	
		165	5825		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT20 MCS0	149	5745		16.50			16.50			16.50		16.50		19.50	
		157	5785		16.50			16.50			16.50		16.50		19.50	
		165	5825		16.50			16.50			16.50		16.50		19.50	
	802.11n-HT40 MCS0	151	5755		16.50			16.50			16.50		16.50		19.50	
		159	5795		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT20 MCS0	149	5745		16.50			16.50			16.50		16.50		19.50	
		157	5785		16.50			16.50			16.50		16.50		19.50	
		165	5825		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT40 MCS0	151	5755		16.50			16.50			16.50		16.50		19.50	
		159	5795		16.50			16.50			16.50		16.50		19.50	
	802.11ac-VHT80 MCS0	155	5775		16.50			16.50		16.18	16.50	16.04	16.50	19.12	19.50	99.63
		149	5745		16.50			16.50		Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
	802.11ax-HE20 MCS0	157	5785		16.50			16.50			16.50		16.50		19.50	
		165	5825		16.50			16.50			16.50		16.50		19.50	
		151	5755		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE40 MCS0	159	5795		16.50			16.50			16.50		16.50		19.50	
		155	5775		16.50			16.50			16.50		16.50		19.50	
	802.11ax-HE80 MCS0	155	5775		16.50			16.50			16.50		16.50		19.50	

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	11.50	Not Required	Not Required	11.50	Not Required	Not Required	11.50	Not Required	11.50	Not Required	14.50	Not Required
		57	6235		11.50			11.50			11.50		11.50		14.50	
		173	6815		9.50			9.50			9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		11.50			11.50			11.50		11.50		14.50	
		57	6235		11.50			11.50			11.50		11.50		14.50	
		173	6815		9.50			9.50			9.50		9.50		12.50	
	802.11ax-HE40 MCS0	3	5965		11.50			11.50			11.50		11.50		14.50	
		59	6245		11.50			11.50			11.50		11.50		14.50	
		171	6805		9.50			9.50			9.50		9.50		12.50	
	802.11ax-HE80 MCS0	7	5985		11.50			11.50			11.50		11.50		14.50	
		71	6305		11.50			11.50			11.50		11.50		14.50	
		167	6785		9.50			9.50			9.50		9.50		12.50	
	802.11ax-HE160 MCS0	15	6025		11.50			11.50			11.41	11.50	11.12	11.50	14.28	14.50
		47	6185		11.50			11.50			10.52	11.50	10.50	11.50	13.52	14.50
		143	6665		9.50			9.50			8.90	9.50	8.40	9.50	11.67	12.50

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E Indoor	802.11a 6Mbps	1	5955	Not Required	3.00	Not Required	Not Required	3.00	Not Required	Not Required	3.00	Not Required	3.00	Not Required	6.00	Not Required
		57	6235		3.00			3.00			3.00		3.00		6.00	
		113	6515		4.00			4.00			4.00		4.00		7.00	
		173	6815		4.00			4.00			4.00		4.00		7.00	
		233	7115		4.50			4.50			4.50		4.50		7.50	
	802.11ax-HE20 MCS0	1	5955		7.50			7.50			7.50		7.50		10.50	
		57	6235		7.50			7.50			7.50		7.50		10.50	
		113	6515		7.50			7.50			7.50		7.50		10.50	
		173	6815		7.50			7.50			7.50		7.50		10.50	
		233	7115		7.00			7.00			7.00		7.00		10.00	
	802.11ax-HE40 MCS0	3	5965		10.00			10.00			10.00		10.00		13.00	
		59	6245		10.00			10.00			10.00		10.00		13.00	
		107	6485		10.00			10.00			10.00		10.00		13.00	
		171	6805		10.50			10.50			9.50		9.50		12.50	
		227	7085		10.50			10.50			10.50		10.50		13.50	
	802.11ax-HE80 MCS0	7	5985		12.50			12.50			11.50		11.50		14.50	
		71	6305		12.50			12.50			11.50		11.50		14.50	
		119	6545		13.00			13.00			10.00		10.00		13.00	
		167	6785		13.00			13.00			9.50		9.50		12.50	
		215	7025		13.50			13.50			11.00		11.00		14.00	
	802.11ax-HE160 MCS0	15	6025		16.00			16.00			11.41	11.50	11.12	11.50	14.28	14.50
		47	6185		16.00			16.00			10.52	11.50	10.50	11.50	13.52	14.50
		111	6505		16.50			16.50			9.09	10.00	8.87	10.00	11.99	13.00
		143	6665		16.50			16.50			8.90	9.50	8.40	9.50	11.67	12.50
		207	6985		16.00			16.00			10.18	11.00	10.60	11.00	13.41	14.00



<Set 2 DBS>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.88	19.00	98.35	18.09	19.00	97.90	17.88	19.00	18.52	19.00	21.22	22.00	98.05
		6	2437	17.86	19.00		18.18	19.00		17.96	19.00	18.38	19.00	21.19	22.00	
		11	2462	17.77	19.00		18.19	19.00		17.62	19.00	18.21	19.00	20.94	22.00	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	18.00	Not Required	18.00	Not Required	21.00	Not Required
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		18.00			18.00			18.00		18.00		21.00	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		19.00			19.00			19.00		19.00		22.00	
		11	2462		17.50			17.50			17.50		17.50		20.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
		40	5200		15.00			15.00			15.00		15.00		18.00	
		44	5220		15.00			15.00			15.00		15.00		18.00	
		48	5240		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT20 MCS0	36	5180		15.00			15.00			15.00		15.00		18.00	
		40	5200		15.00			15.00			15.00		15.00		18.00	
		44	5220		15.00			15.00			15.00		15.00		18.00	
		48	5240		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT40 MCS0	38	5190		15.00			15.00			15.00		15.00		18.00	
		46	5230		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT20 MCS0	36	5180		15.00			15.00			15.00		15.00		18.00	
		40	5200		15.00			15.00			15.00		15.00		18.00	
		44	5220		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT40 MCS0	38	5190		15.00			15.00			15.00		15.00		18.00	
		46	5230		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT80 MCS0	42	5210		15.00			15.00			15.00		15.00		18.00	
		36	5180		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE20 MCS0	40	5200		15.00			15.00			15.00		15.00		18.00	
		44	5220		15.00			15.00			15.00		15.00		18.00	
		48	5240		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE40 MCS0	38	5190		15.00			15.00			15.00		15.00		18.00	
		46	5230		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE80 MCS0	42	5210		15.00			15.00			15.00		15.00		18.00	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
		56	5280		15.00			15.00			15.00		15.00		18.00	
		60	5300		15.00			15.00			15.00		15.00		18.00	
		64	5320		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT20 MCS0	52	5260		15.00			15.00			15.00		15.00		18.00	
		56	5280		15.00			15.00			15.00		15.00		18.00	
		60	5300		15.00			15.00			15.00		15.00		18.00	
		64	5320		15.00			15.00			15.00		15.00		18.00	
	802.11n-HT40 MCS0	54	5270		15.00			15.00			15.00		15.00		18.00	
		62	5310		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT20 MCS0	52	5260		15.00			15.00			15.00		15.00		18.00	
		56	5280		15.00			15.00			15.00		15.00		18.00	
		60	5300		15.00			15.00			15.00		15.00		18.00	
		64	5320		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT40 MCS0	54	5270		15.00			15.00			15.00		15.00		18.00	
		62	5310		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT80 MCS0	58	5290		15.00			15.00			15.00		15.00		18.00	
	802.11ac-VHT160 MCS0	50	5250		15			15			14.82	15.00	14.79	15.00	17.82	99.51
	802.11ax-HE20 MCS0	52	5260		15.00			15.00		Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
		56	5280		15.00			15.00			15.00		15.00		18.00	
		60	5300		15.00			15.00			15.00		15.00		18.00	
		64	5320		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE40 MCS0	54	5270		15.00			15.00			15.00		15.00		18.00	
		62	5310		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE80 MCS0	58	5290		15.00			15.00			15.00		15.00		18.00	
	802.11ax-HE160 MCS0	50	5250		15			15			15.00		15.00		18.00	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	12.00	Not Required	Not Required	12.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		116	5580		12.00			12.00			12.00		12.00		15.00	
		124	5620		12.00			12.00			12.00		12.00		15.00	
		132	5660		12.00			12.00			12.00		12.00		15.00	
		140	5700		12.00			12.00			12.00		12.00		15.00	
		144	5720		12.00			12.00			12.00		12.00		15.00	
	802.11n-HT20 MCS0	100	5500		12.00			12.00			12.00		12.00		15.00	
		116	5580		12.00			12.00			12.00		12.00		15.00	
		124	5620		12.00			12.00			12.00		12.00		15.00	
		132	5660		12.00			12.00			12.00		12.00		15.00	
		140	5700		12.00			12.00			12.00		12.00		15.00	
		144	5720		12.00			12.00			12.00		12.00		15.00	
	802.11n-HT40 MCS0	102	5510		12.00			12.00			12.00		12.00		15.00	
		110	5550		12.00			12.00			12.00		12.00		15.00	
		126	5630		12.00			12.00			12.00		12.00		15.00	
		134	5670		12.00			12.00			12.00		12.00		15.00	
		142	5710		12.00			12.00			12.00		12.00		15.00	
	802.11ac-VHT20 MCS0	100	5500		12.00			12.00			12.00		12.00		15.00	
		116	5580		12.00			12.00			12.00		12.00		15.00	
		124	5620		12.00			12.00			12.00		12.00		15.00	
		132	5660		12.00			12.00			12.00		12.00		15.00	
		140	5700		12.00			12.00			12.00		12.00		15.00	
		144	5720		12.00			12.00			12.00		12.00		15.00	
	802.11ac-VHT40 MCS0	102	5510		12.00			12.00			12.00		12.00		15.00	
		110	5550		12.00			12.00			12.00		12.00		15.00	
		126	5630		12.00			12.00			12.00		12.00		15.00	
		134	5670		12.00			12.00			12.00		12.00		15.00	
		142	5710		12.00			12.00			12.00		12.00		15.00	
	802.11ac-VHT80 MCS0	106	5530		12.00			12.00			12.00		12.00		15.00	
		122	5610		12.00			12.00			12.00		12.00		15.00	
		138	5690		12.00			12.00			12.00		12.00		15.00	
	802.11ac-VHT160 MCS0	114	5570		12.00			12.00		11.80	12.00	11.38	12.00	14.61	15.00	99.51
	802.11ax-HE20 MCS0	100	5500		12.00			12.00		Not Required	12.00	Not Required	12.00	Not Required	15.00	
		116	5580		12.00			12.00			12.00		12.00		15.00	
		124	5620		12.00			12.00			12.00		12.00		15.00	
		132	5660		12.00			12.00			12.00		12.00		15.00	
		140	5700		12.00			12.00			12.00		12.00		15.00	
		144	5720		12.00			12.00			12.00		12.00		15.00	
	802.11ax-HE40 MCS0	102	5510		12.00			12.00			12.00		12.00		15.00	
		110	5550		12.00			12.00			12.00		12.00		15.00	
		126	5630		12.00			12.00			12.00		12.00		15.00	
		134	5670		12.00			12.00			12.00		12.00		15.00	
		142	5710		12.00			12.00			12.00		12.00		15.00	
	802.11ax-HE80 MCS0	106	5530		12.00			12.00			12.00		12.00		15.00	
		122	5610		12.00			12.00			12.00		12.00		15.00	
		138	5690		12.00			12.00			12.00		12.00		15.00	
	802.11ax-HE160 MCS0	114	5570		12.00			12.00			12.00		12.00		15.00	



FCC SAR TEST REPORT

Report No. : FA4O2228B

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	13.50	Not Required	Not Required	13.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	149	5745		13.50			13.50			13.50		13.50		16.50	
		157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
	802.11n-HT40 MCS0	151	5755		13.50			13.50			13.50		13.50		16.50	
		159	5795		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	149	5745		13.50			13.50			13.50		13.50		16.50	
		157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT40 MCS0	151	5755		13.50			13.50			13.50		13.50		16.50	
		159	5795		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	155	5775		13.50			13.50		13.19	13.50	12.76	13.50	15.99	16.50	99.63
		149	5745		13.50			13.50		Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
	802.11ax-HE20 MCS0	157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
		151	5755		13.50			13.50			13.50		13.50		16.50	
	802.11ax-HE40 MCS0	159	5795		13.50			13.50			13.50		13.50		16.50	
		155	5775		13.50			13.50			13.50		13.50		16.50	
	802.11ax-HE80 MCS0	155	5775		13.50			13.50			13.50		13.50		16.50	



				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	11.50	Not Required	Not Required	11.50	Not Required	Not Required	11.50	Not Required	11.50	Not Required	14.50	Not Required
		57	6235		11.50			11.50			11.50		11.50		14.50	
		113	6515		4.00			4.00			4.00		4.00		7.00	
		173	6815		9.50			9.50			9.50		9.50		12.50	
		233	7115		4.50			4.50			4.50		4.50		7.50	
	802.11ax-HE20 MCS0	1	5955		11.50			11.50			11.50		11.50		14.50	
		57	6235		11.50			11.50			11.50		11.50		14.50	
		113	6515		7.50			7.50			7.50		7.50		10.50	
		173	6815		9.50			9.50			9.50		9.50		12.50	
		233	7115		7.00			7.00			7.00		7.00		10.00	
	802.11ax-HE40 MCS0	3	5965		11.50			11.50			11.50		11.50		14.50	
		59	6245		11.50			11.50			11.50		11.50		14.50	
		107	6485		10.00			10.00			10.00		10.00		13.00	
		171	6805		9.50			9.50			9.50		9.50		12.50	
		227	7085		10.50			10.50			10.50		10.50		13.50	
	802.11ax-HE80 MCS0	7	5985		11.50			11.50			11.50		11.50		14.50	
		71	6305		11.50			11.50			11.50		11.50		14.50	
		119	6545		10.00			10.00			10.00		10.00		13.00	
		167	6785		9.50			9.50			9.50		9.50		12.50	
		215	7025		11.00			11.00			11.00		11.00		14.00	
	802.11ax-HE160 MCS0	15	6025		11.50			11.50			11.41	11.50	11.12	11.50	14.28	99.42
		47	6185		11.50			11.50			10.52	11.50	10.50	11.50	13.52	
		111	6505		10.00			10.00			9.09	10.00	8.87	10.00	11.99	
		143	6665		9.50			9.50			8.90	9.50	8.40	9.50	11.67	
		207	6985		11.00			11.00			10.18	11.00	10.60	11.00	13.41	

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E Indoor	802.11a 6Mbps	1	5955	Not Required	3.00	Not Required	Not Required	3.00	Not Required	Not Required	3.00	Not Required	3.00	Not Required	6.00	Not Required
		57	6235		3.00			3.00			3.00		3.00		6.00	
		113	6515		4.00			4.00			4.00		4.00		7.00	
		173	6815		4.00			4.00			4.00		4.00		7.00	
		233	7115		4.50			4.50			4.50		4.50		7.50	
	802.11ax-HE20 MCS0	1	5955		7.50			7.50			7.50		7.50		10.50	
		57	6235		7.50			7.50			7.50		7.50		10.50	
		113	6515		7.50			7.50			7.50		7.50		10.50	
		173	6815		7.50			7.50			7.50		7.50		10.50	
		233	7115		7.00			7.00			7.00		7.00		10.00	
	802.11ax-HE40 MCS0	3	5965		10.00			10.00			10.00		10.00		13.00	
		59	6245		10.00			10.00			10.00		10.00		13.00	
		107	6485		10.00			10.00			10.00		10.00		13.00	
		171	6805		10.50			10.50			9.50		9.50		12.50	
		227	7085		10.50			10.50			10.50		10.50		13.50	
	802.11ax-HE80 MCS0	7	5985		12.50			12.50			11.50		11.50		14.50	
		71	6305		12.50			12.50			11.50		11.50		14.50	
		119	6545		13.00			13.00			10.00		10.00		13.00	
		167	6785		13.00			13.00			9.50		9.50		12.50	
		215	7025		13.50			13.50			11.00		11.00		14.00	
	802.11ax-HE160 MCS0	15	6025		16.00			16.00			11.41	11.50	11.12	11.50	14.28	99.37
		47	6185		16.00			16.00			10.52	11.50	10.50	11.50	13.52	
		111	6505		16.50			16.50			9.09	10.00	8.87	10.00	11.99	
		143	6665		16.50			16.50			8.90	9.50	8.40	9.50	11.67	
		207	6985		16.00			16.00			10.18	11.00	10.60	11.00	13.41	



<Set 5 Non-DBS>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.62	17.50	98.35	16.47	17.50	97.90	16.62	17.50	17.30	17.50	19.98	20.50	98.05
		6	2437	16.96	17.50		16.37	17.50		16.95	17.50	17.34	17.50	20.16	20.50	
		11	2462	17.17	17.50		16.30	17.50		17.09	17.50	17.50	17.50	20.31	20.50	
	802.11g 6Mbps	1	2412	Not Required	17.50	Not Required	Not Required	17.50	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	Not Required
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.50	
		6	2437		17.50			17.50			17.50		17.50		20.50	
		11	2462		17.50			17.50			17.50		17.50		20.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	14.50	Not Required	Not Required	14.50	Not Required	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
		40	5200		14.50			14.50			14.50		14.50		17.50	
		44	5220		14.50			14.50			14.50		14.50		17.50	
		48	5240		14.50			14.50			14.50		14.50		17.50	
	802.11n-HT20 MCS0	36	5180		14.50			14.50			14.50		14.50		17.50	
		40	5200		14.50			14.50			14.50		14.50		17.50	
		44	5220		14.50			14.50			14.50		14.50		17.50	
		48	5240		14.50			14.50			14.50		14.50		17.50	
	802.11n-HT40 MCS0	38	5190		14.50			14.50		Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
		46	5230		14.50			14.50			14.50		14.50		17.50	
		36	5180		14.50			14.50			14.50		14.50		17.50	
		40	5200		14.50			14.50			14.50		14.50		17.50	
	802.11ac-VHT20 MCS0	44	5220		14.50			14.50			14.50		14.50		17.50	
		48	5240		14.50			14.50			14.50		14.50		17.50	
		38	5190		14.50			14.50			14.50		14.50		17.50	
		46	5230		14.50			14.50			14.50		14.50		17.50	
	802.11ac-VHT80 MCS0	42	5210		14.50			14.50			14.46	14.50	14.29	14.50	17.39	99.63
	802.11ax-HE20 MCS0	36	5180		14.50			14.50		Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
		40	5200		14.50			14.50			14.50		14.50		17.50	
		44	5220		14.50			14.50			14.50		14.50		17.50	
		48	5240		14.50			14.50			14.50		14.50		17.50	
	802.11ax-HE40 MCS0	38	5190		14.50			14.50			14.50		14.50		17.50	
		46	5230		14.50			14.50			14.50		14.50		17.50	
	802.11ax-HE80 MCS0	42	5210		14.50			14.50			14.50		14.50		17.50	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	15.50	Not Required	Not Required	15.50	Not Required	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
		157	5785		15.50			15.50			15.50		15.50		18.50	
		165	5825		15.50			15.50			15.50		15.50		18.50	
	802.11n-HT20 MCS0	149	5745		15.50			15.50			15.50		15.50		18.50	
		157	5785		15.50			15.50			15.50		15.50		18.50	
		165	5825		15.50			15.50			15.50		15.50		18.50	
	802.11n-HT40 MCS0	151	5755		15.50			15.50			15.50		15.50		18.50	
		159	5795		15.50			15.50			15.50		15.50		18.50	
		149	5745		15.50			15.50			15.50		15.50		18.50	
	802.11ac-VHT20 MCS0	157	5785		15.50			15.50			15.50		15.50		18.50	
		165	5825		15.50			15.50			15.50		15.50		18.50	
		151	5755		15.50			15.50			15.50		15.50		18.50	
	802.11ac-VHT40 MCS0	159	5795		15.50			15.50			15.50		15.50		18.50	
		151	5755		15.50			15.50			15.50		15.50		18.50	
		159	5795		15.50			15.50			15.50		15.50		18.50	
	802.11ac-VHT80 MCS0	155	5775		15.50			15.50		15.26	15.50	15.08	15.50	18.18	18.50	99.63
	802.11ax-HE20 MCS0	149	5745		15.50			15.50		Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
		157	5785		15.50			15.50			15.50		15.50		18.50	
		165	5825		15.50			15.50			15.50		15.50		18.50	
	802.11ax-HE40 MCS0	151	5755		15.50			15.50			15.50		15.50		18.50	
		159	5795		15.50			15.50			15.50		15.50		18.50	
		155	5775		15.50			15.50			15.50		15.50		18.50	
	802.11ax-HE80 MCS0	151	5755		15.50			15.50			15.50		15.50		18.50	
		159	5795		15.50			15.50			15.50		15.50		18.50	



<Set 5 DBS>

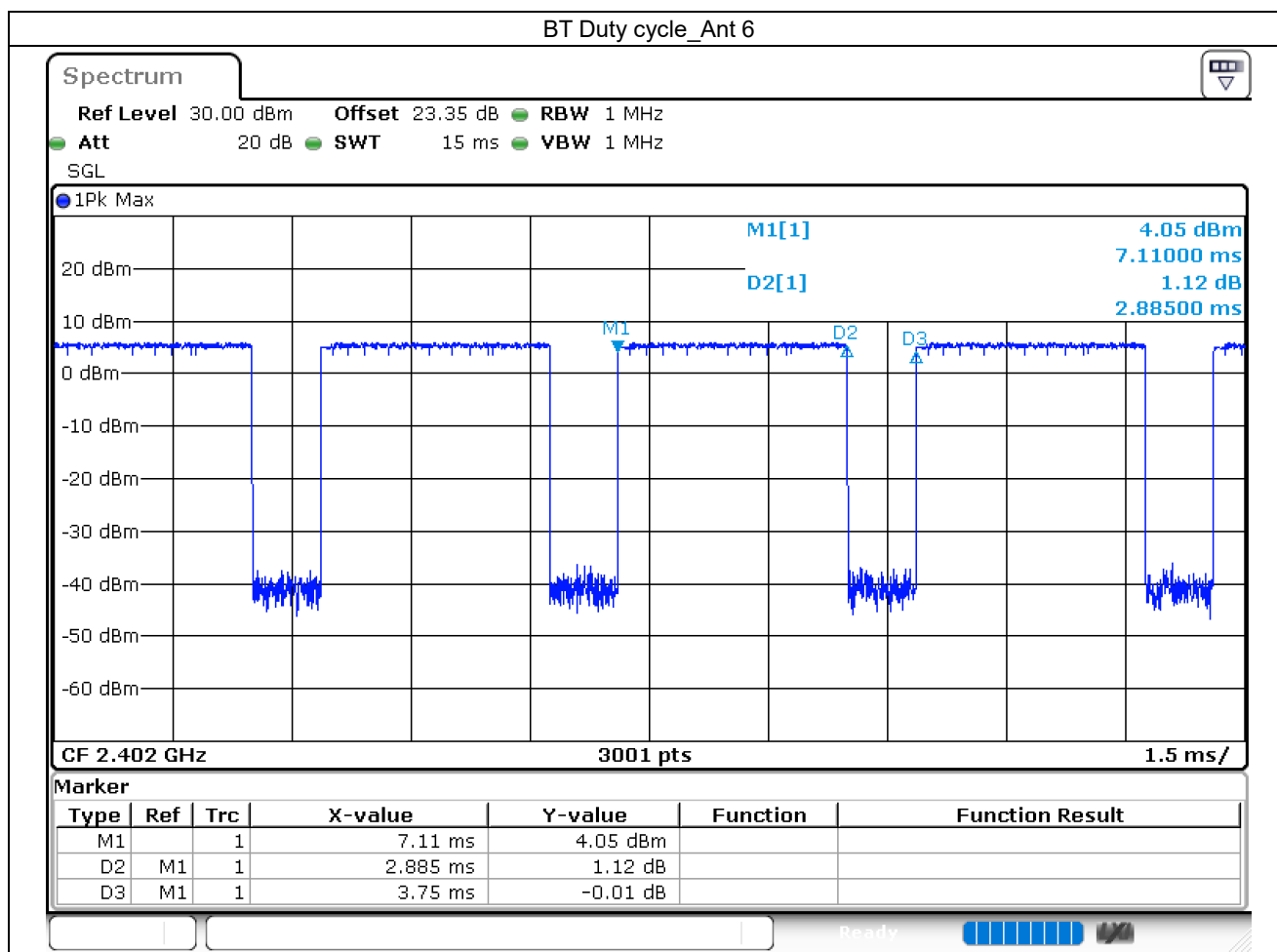
				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.39	15.50	98.35	14.31	15.50	97.90	14.27	15.50	15.01	15.50	17.67	18.50	98.05
		6	2437	14.71	15.50		14.34	15.50		14.63	15.50	15.08	15.50	17.87	18.50	
		11	2462	14.92	15.50		14.00	15.50		14.73	15.50	15.37	15.50	18.07	18.50	
	802.11g 6Mbps	1	2412	Not Required	15.50	Not Required	Not Required	15.50	Not Required	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
		6	2437		15.50			15.50			15.50		15.50		18.50	
		11	2462		15.50			15.50			15.50		15.50		18.50	
	802.11n-HT20 MCS0	1	2412		15.50			15.50			15.50		15.50		18.50	
		6	2437		15.50			15.50			15.50		15.50		18.50	
		11	2462		15.50			15.50			15.50		15.50		18.50	
	802.11ac-VHT20 MCS0	1	2412		15.50			15.50			15.50		15.50		18.50	
		6	2437		15.50			15.50			15.50		15.50		18.50	
		11	2462		15.50			15.50			15.50		15.50		18.50	
	802.11ax-HE20 MCS0	1	2412		15.50			15.50			15.50		15.50		18.50	
		6	2437		15.50			15.50			15.50		15.50		18.50	
		11	2462		15.50			15.50			15.50		15.50		18.50	

				Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	13.00	Not Required	Not Required	13.00	Not Required	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		40	5200		13.00			13.00			13.00		13.00		16.00	
		44	5220		13.00			13.00			13.00		13.00		16.00	
		48	5240		13.00			13.00			13.00		13.00		16.00	
	802.11n-HT20 MCS0	36	5180		13.00			13.00			13.00		13.00		16.00	
		40	5200		13.00			13.00			13.00		13.00		16.00	
		44	5220		13.00			13.00			13.00		13.00		16.00	
		48	5240		13.00			13.00			13.00		13.00		16.00	
	802.11n-HT40 MCS0	38	5190		13.00			13.00		Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		46	5230		13.00			13.00			13.00		13.00		16.00	
		36	5180		13.00			13.00			13.00		13.00		16.00	
		40	5200		13.00			13.00			13.00		13.00		16.00	
	802.11ac-VHT20 MCS0	44	5220		13.00			13.00			13.00		13.00		16.00	
		48	5240		13.00			13.00			13.00		13.00		16.00	
		38	5190		13.00			13.00			13.00		13.00		16.00	
		46	5230		13.00			13.00			13.00		13.00		16.00	
	802.11ac-VHT80 MCS0	42	5210		13.00			13.00			13.00	13.00	12.69	13.00	15.86	99.63
	802.11ax-HE20 MCS0	36	5180		13.00			13.00		Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		40	5200		13.00			13.00			13.00		13.00		16.00	
		44	5220		13.00			13.00			13.00		13.00		16.00	
		48	5240		13.00			13.00			13.00		13.00		16.00	
	802.11ax-HE40 MCS0	38	5190		13.00			13.00			13.00		13.00		16.00	
		46	5230		13.00			13.00			13.00		13.00		16.00	
	802.11ax-HE80 MCS0	42	5210		13.00			13.00			13.00		13.00		16.00	
		42	5210		13.00			13.00			13.00		13.00		16.00	

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7			Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	13.50	Not Required	Not Required	13.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	149	5745		13.50			13.50			13.50		13.50		16.50	
		157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
	802.11n-HT40 MCS0	151	5755		13.50			13.50			13.50		13.50		16.50	
		159	5795		13.50			13.50			13.50		13.50		16.50	
		149	5745		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	157	5785		13.50			13.50			13.50		13.50		16.50	
		165	5825		13.50			13.50			13.50		13.50		16.50	
		151	5755		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT40 MCS0	159	5795		13.50			13.50			13.50		13.50		16.50	
		151	5755		13.50			13.50			13.50		13.50		16.50	
		159	5795		13.50			13.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	155	5775		13.50			13.50			13.19	13.50	12.76	13.50	15.99	99.63
		149	5745		13.50			13.50			Not Required	13.50	Not Required	13.50	Not Required	16.50
		157	5785		13.50			13.50				13.50		13.50		16.50
	802.11ax-HE20 MCS0	165	5825		13.50			13.50				13.50		13.50		16.50
		151	5755		13.50			13.50				13.50		13.50		16.50
		159	5795		13.50			13.50				13.50		13.50		16.50
	802.11ax-HE40 MCS0	151	5755		13.50			13.50				13.50		13.50		16.50
		159	5795		13.50			13.50				13.50		13.50		16.50
	802.11ax-HE80 MCS0	155	5775		13.50			13.50				13.50		13.50		16.50

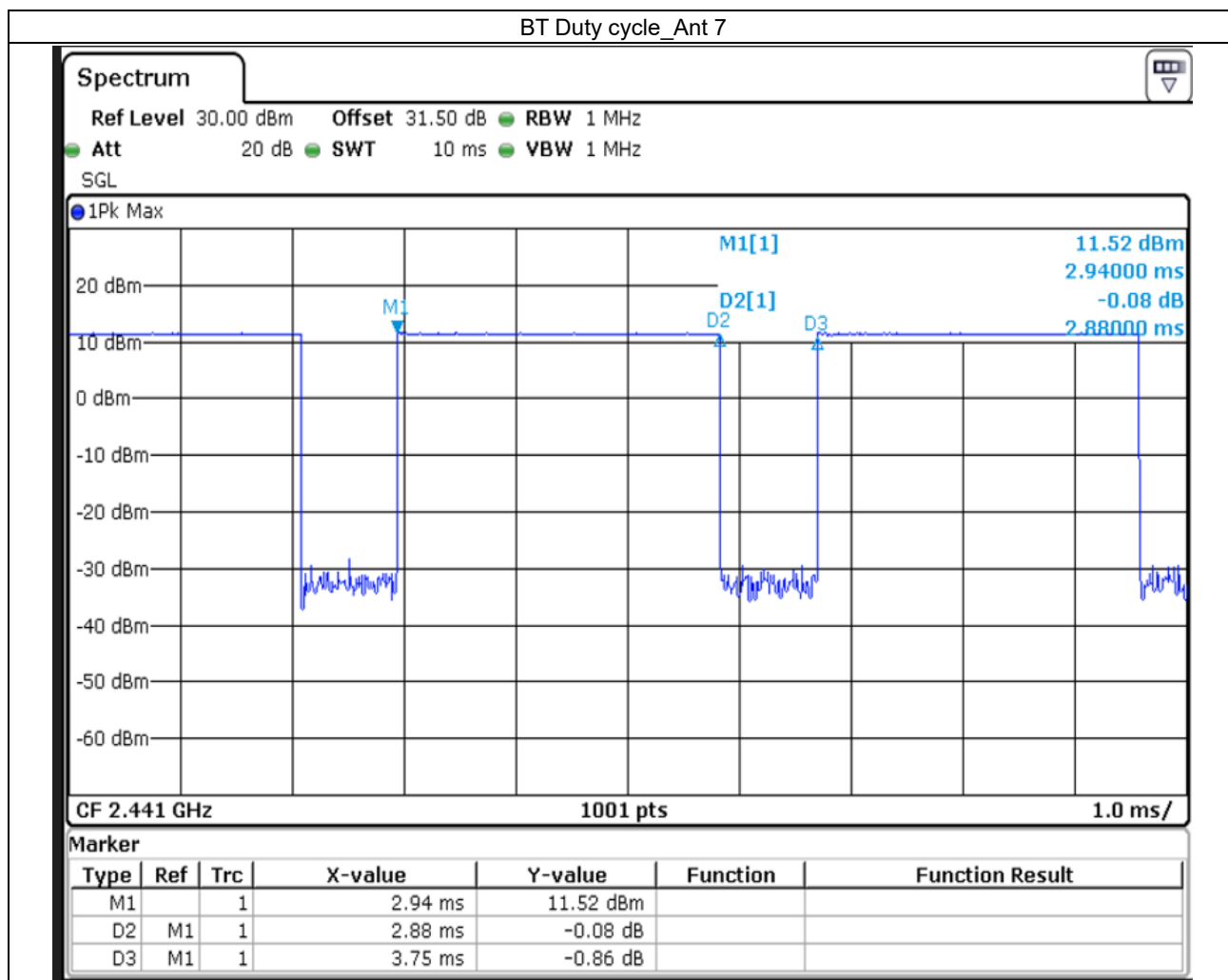
<2.4GHz Bluetooth>

	Mode	Channel	Frequency (MHz)	Ant 6			Ant 7		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %
Bluetooth	BR / EDR 1Mbps	0	2402	6.33	6.50	76.93	3.30	5.00	76.80
		39	2441	6.06	6.50		4.62	5.00	
		78	2480	5.93	6.50		4.26	5.00	
	BR / EDR 2Mbps	0	2402	Not Required	4.50	Not Required	Not Required	3.00	Not Required
		39	2441		4.50			3.00	
		78	2480		4.50			3.00	
	BR / EDR 3Mbps	0	2402		4.50			3.00	
		39	2441		4.50			3.00	
		78	2480		4.50			3.00	
	LE 1Mbps	0	2402		5.50			4.00	
		19	2440		5.50			4.00	
		39	2480		5.50			4.00	
	LE 2Mbps	0	2402		5.50			4.00	
		19	2440		5.50			4.00	
		39	2480		5.50			4.00	



General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.93% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.


General Note:

2. For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.80% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.