



CERTIFICATION TEST REPORT

Report Number. : 16U23816-E8V3

Applicant : APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

Model : A1671, A1821

FCC ID : BCGA1671

EUT Description : TABLET DEVICE

Test Standard(s) : FCC CFR47 PART 22H, 24E, 27 AND 90S

Date Of Issue:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	02/21/2017	Initial Review	Mengistu Mekuria
V2	02/28/2017	Addressed TCB Questions	Francisco Guarnero
V3	03/09/2017	Update Section 5.3 power table	Chin Pang

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	8
2. TEST METHODOLOGY	9
3. FACILITIES AND ACCREDITATION	9
4. CALIBRATION AND UNCERTAINTY	10
4.1. MEASURING INSTRUMENT CALIBRATION	10
4.2. SAMPLE CALCULATION	10
4.3. MEASUREMENT UNCERTAINTY	10
5. EQUIPMENT UNDER TEST	11
5.1. DESCRIPTION OF EUT	11
5.2. DIFFERENCE IN MODEL NUMER	11
5.3. MAXIMUM OUTPUT POWER.....	11
5.3.1. ANTENNA C	11
5.3.2. ANTENNA D	16
5.4. SOFTWARE AND FIRMWARE.....	21
5.5. MAXIMUM ANTENNA GAIN	21
5.6. WORST-CASE CONFIGURATION AND MODE	22
5.7. DESCRIPTION OF TEST SETUP.....	23
6. TEST AND MEASUREMENT EQUIPMENT	25
7. TRANSMITTER OUTPUT POWER (CONDUCTED AND ERP/EIRP)	26
7.1. ANTENNA C	30
7.1.1. LTE BAND 2	30
7.1.2. LTE BAND 4	36
7.1.3. LTE BAND 5	42
7.1.4. LTE BAND 7	46
7.1.5. LTE BAND 12	50
7.1.6. LTE BAND 13	54
7.1.7. LTE BAND 17	56
7.1.8. LTE BAND 25	58
7.1.9. LTE BAND 26	64
7.1.10. LTE BAND 27.....	68
7.1.11. LTE BAND 30.....	72

7.1.12.	LTE BAND 41.....	74
7.2.	ANTENNA D.....	78
7.2.1.	LTE BAND 2.....	78
7.2.2.	LTE BAND 4.....	84
7.2.3.	LTE BAND 5.....	90
7.2.4.	LTE BAND 7.....	94
7.2.5.	LTE BAND 12.....	98
7.2.6.	LTE BAND 13.....	102
7.2.7.	LTE BAND 17.....	104
7.2.8.	LTE BAND 25.....	106
7.2.9.	LTE BAND 26.....	112
7.2.10.	LTE BAND 27.....	116
7.2.11.	LTE BAND 30.....	120
7.2.12.	LTE BAND 41.....	122
8.	CONDUCTED TEST RESULTS	126
8.1.	OCCUPIED BANDWIDTH	126
8.1.1.	LTE BAND 2.....	131
8.1.2.	LTE BAND 4.....	137
8.1.3.	LTE BAND 5.....	143
8.1.4.	LTE BAND 7.....	147
8.1.5.	LTE BAND 12.....	151
8.1.6.	LTE BAND 13.....	155
8.1.7.	LTE BAND 17.....	157
8.1.8.	LTE BAND 25.....	159
8.1.9.	LTE BAND 26.....	165
8.1.10.	LTE BAND 27.....	169
8.1.11.	LTE BAND 30.....	173
8.1.12.	LTE BAND 41.....	175
8.2.	BANDEDGE AND EMISSION MASK.....	179
8.2.1.	LTE BAND 2 BANDEDGE	182
8.2.2.	LTE BAND 4 BANDEDGE	206
8.2.3.	LTE BAND 5 BANDEDGE	230
8.2.4.	LTE BAND 7 ADJACENT CHANNEL POWER	246
8.2.5.	LTE BAND 12 BANDEDGE	270

8.2.6.	LTE BAND 13 ADJACENT CHANNEL POWER	286
8.2.7.	LTE BAND 17 BANDEDGE	294
8.2.8.	LTE BAND 25 BANDEDGE	302
8.2.9.	LTE BAND 26 EMISSION MASK	326
8.2.10.	LTE BAND 27 EMISSION MASK	348
8.2.11.	LTE BAND 30 ADJACENT CHANNEL POWER	370
8.2.13.	LTE BAND 41 ADJACENT CHANNEL POWER	378
8.3.	OUT OF BAND EMISSIONS	402
8.3.1.	LTE BAND 2	403
8.3.2.	LTE BAND 4	421
8.3.3.	LTE BAND 5	439
8.3.4.	LTE BAND 7	451
8.3.5.	LTE BAND 12	463
8.3.6.	LTE BAND 13	475
8.3.7.	LTE BAND 17	479
8.3.8.	LTE BAND 25	485
8.3.9.	LTE BAND 26	503
8.3.10.	LTE BAND 27	513
8.3.11.	LTE BAND 30	523
8.3.12.	LTE BAND 41	536
8.4.	FREQUENCY STABILITY	548
8.4.1.	LTE BAND 2	549
8.4.2.	LTE BAND 4	550
8.4.3.	LTE BAND 5	551
8.4.4.	LTE BAND 7	552
8.4.5.	LTE BAND 12	553
8.4.6.	LTE BAND 13	554
8.4.7.	LTE BAND 17	555
8.4.8.	LTE BAND 25	556
8.4.9.	LTE BAND 26	557
8.4.10.	LTE BAND 27	558
8.4.11.	LTE BAND 30	559
8.4.12.	LTE BAND 41	560
8.5.	PEAK-TO-AVERAGE RATIO	561
8.5.1.	LTE BAND 2	562

8.5.2.	LTE BAND 4	568
8.5.3.	LTE BAND 5	574
8.5.4.	LTE BAND 7	578
8.5.5.	LTE BAND 12	582
8.5.6.	LTE BAND 13	586
8.5.7.	LTE BAND 17	588
8.5.8.	LTE BAND 25	590
8.5.9.	LTE BAND 26	596
8.5.10.	LTE BAND 27	600
8.5.11.	LTE BAND 30	604
8.5.12.	LTE BAND 41	606
9.	RADIATED TEST RESULTS	607
9.1.	FIELD STRENGTH OF SPURIOUS RADIATION (ANTENNA C)	607
9.1.1.	LTE BAND 2	609
9.1.2.	LTE BAND 4	611
9.1.3.	LTE BAND 5	613
9.1.4.	LTE BAND 7	615
9.1.5.	LTE BAND 12	617
9.1.6.	LTE BAND 13	619
9.1.7.	LTE BAND 17	621
9.1.8.	LTE BAND 25	623
9.1.9.	LTE BAND 26	625
9.1.10.	LTE BAND 27	627
9.1.11.	LTE BAND 30	629
9.1.12.	LTE BAND 41	631
9.2.	FIELD STRENGTH OF SPURIOUS RADIATION (ANTENNA D)	633
9.2.1.	LTE BAND 2	633
9.2.2.	LTE BAND 4	635
9.2.3.	LTE BAND 5	637
9.2.4.	LTE BAND 7	639
9.2.5.	LTE BAND 12	641
9.2.6.	LTE BAND 13	643
9.2.7.	LTE BAND 17	645
9.2.8.	LTE BAND 25	647

9.2.9.	LTE BAND 26	649
9.2.10.	LTE BAND 27.....	651
9.2.11.	LTE BAND 30.....	653
9.2.12.	LTE BAND 41.....	655
10.	SETUP PHOTOS	657

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: TABLET DEVICE

MODEL: A1671, A1821

SERIAL NUMBER: DLX645701 (CONDUCTED); DLXST00NHPJQ (RADIATED)

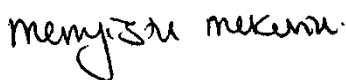
DATE TESTED: NOVEMBER 23 – FEBRUARY 20, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC CFR47 PART 22H, 24E, 27 and 90S	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26:2015, FCC CFR 47 Part 2, FCC KDB 971168 D01 v02r02, Part 22, Part 24, Part 27 and Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A (IC:2324B-1)	☐ Chamber D (IC:2324B-4)
☐ Chamber B (IC:2324B-2)	☒ Chamber E (IC:2324B-5)
☐ Chamber C (IC:2324B-3)	☐ Chamber F (IC:2324B-6)
	☐ Chamber G (IC:2324B-7)
	☒ Chamber H (IC:2324B-8)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT, model number A1671, A1821 is a tablet with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1xRTT/1x Advanced/EVDO Rev.A /WCDMA /HSPA+/DC- HSDPA/LTE FDD & Carrier Aggregation/TDD/TD-SCDMA radio, IEEE 802.11a/b/g/n/ac radio, and Bluetooth radio. The rechargeable battery is not user accessible.

5.2. DIFFERENCE IN MODEL NUMER

Both Model A1671 and A1821 have identical PCB layout, design and functionality, except that A1671 supports second electronic-UICC based SIM or “soft SIM” (called eSIM) beside the regular UICC based SIM and A1821 will come with eSIM removed. RF and electromagnetic characteristic are independent of the eSIM element. Both Models have exactly same technology and band support. Model A1671 is used for EMC/RSE Testing and that data will be used for both Models

5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted and ERP / EIRP output powers as follows:

5.3.1. ANTENNA C

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1850 - 1910	QPSK	26.1	407.4
		16QAM	25.8	380.2
3		QPSK	26.1	407.4
		16QAM	25.8	380.2
5		QPSK	26.6	457.1
		16QAM	26.5	446.7
10		QPSK	26.1	407.4
		16QAM	25.8	380.2
15		QPSK	26.1	407.4
		16QAM	25.5	354.8
20		QPSK	26.1	407.4
		16QAM	25.7	371.5

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1710-1755	QPSK	25.0	316.2
		16QAM	24.4	275.4
3		QPSK	25.0	316.2
		16QAM	24.6	288.4
5		QPSK	25.0	316.2
		16QAM	24.6	288.4
10		QPSK	25.2	331.1
		16QAM	24.9	309.0
15		QPSK	25.2	331.1
		16QAM	24.7	295.1
20		QPSK	25.0	316.2
		16QAM	24.5	281.8

OUTPUT POWER FOR LTE BAND 5

Part 22 /RSS 132 LTE Band 5 and Band 26				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	824 -849	QPSK	22.7	186.2
		16QAM	22.0	158.5
3		QPSK	22.6	182.0
		16QAM	22.2	166.0
5		QPSK	22.7	186.2
		16QAM	22.3	169.8
10		QPSK	22.7	186.2
		16QAM	22.1	162.2

OUTPUT POWER FOR LTE BAND 7

Part 27 / RSS 139 LTE Band 7				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2500-2570	QPSK	25.0	316.2
		16QAM	24.5	281.8
10		QPSK	24.9	309.0
		16QAM	24.5	281.8
15		QPSK	24.9	309.0
		16QAM	24.4	275.4
20		QPSK	25.0	316.2
		16QAM	24.7	295.1

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	699-716	QPSK	24.6	288.4
		16QAM	24.0	251.2
3		QPSK	24.6	288.4
		16QAM	24.1	257.0
5		QPSK	24.5	281.8
		16QAM	24.2	263.0
10		QPSK	24.9	309.0
		16QAM	24.0	251.2

OUTPUT POWER FOR LTE BAND 13

Part 27 /RSS 130 LTE Band 13				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
5	777-787	QPSK	22.3	169.8
		16QAM	21.5	141.3
10		QPSK	22.3	169.8
		16QAM	21.6	144.5

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
5	704-716	QPSK	24.5	281.8
		16QAM	24.2	263.0
10		QPSK	24.5	281.8
		16QAM	24.3	269.2

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1850-1915	QPSK	26.1	407.4
		16QAM	25.5	354.8
3		QPSK	26.2	416.9
		16QAM	25.5	354.8
5		QPSK	26.2	416.9
		16QAM	25.8	380.2
10		QPSK	26.1	407.4
		16QAM	25.7	371.5
15		QPSK	26.1	407.4
		16QAM	25.6	363.1
20		QPSK	26.0	398.1
		16QAM	25.6	363.1

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	814-824	QPSK	22.7	186.2
		16QAM	22.4	173.8
3		QPSK	22.7	186.2
		16QAM	22.3	169.8
5		QPSK	22.7	186.2
		16QAM	22.4	173.8
10		QPSK	22.6	182.0
		16QAM	22.1	162.2

OUTPUT POWER FOR LTE BAND 27

Part 90 LTE Band 27				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	814-824	QPSK	21.7	147.9
		16QAM	20.9	123.0
3		QPSK	21.7	147.9
		16QAM	21.1	128.8
5		QPSK	21.8	151.4
		16QAM	21.3	134.9
10		QPSK	22.0	158.5
		16QAM	21.0	125.9

OUTPUT POWER FOR LTE BAND 30

Part 27 /RSS 195 LTE Band 30				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2305-2315	QPSK	23.1	204.2
		16QAM	22.6	182.0
10		QPSK	23.1	204.2
		16QAM	22.1	162.2

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2496-2690	QPSK	22.7	186.2
		16QAM	22.4	173.8
10		QPSK	22.9	195.0
		16QAM	22.2	166.0
15		QPSK	23.1	204.2
		16QAM	22.6	182.0
20		QPSK	22.9	195.0
		16QAM	22.5	177.8

5.3.2. ANTENNA D

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1850 - 1910	QPSK	23.5	223.9
		16QAM	22.6	182.0
3		QPSK	23.5	223.9
		16QAM	22.7	186.2
5		QPSK	23.5	223.9
		16QAM	23.0	199.5
10		QPSK	23.5	223.9
		16QAM	23.4	218.8
15		QPSK	23.6	229.1
		16QAM	23.0	199.5
20		QPSK	23.5	223.9
		16QAM	23.1	204.2

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1710-1755	QPSK	24.6	288.4
		16QAM	23.9	245.5
3		QPSK	24.6	288.4
		16QAM	24.0	251.2
5		QPSK	24.6	288.4
		16QAM	24.1	257.0
10		QPSK	24.6	288.4
		16QAM	23.9	245.5
15		QPSK	24.6	288.4
		16QAM	24.0	251.2
20		QPSK	24.5	281.8
		16QAM	24.0	251.2

OUTPUT POWER FOR LTE BAND 5

Part 22 /RSS 132 LTE Band 5 and Band 26				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	824 -849	QPSK	22.4	173.8
		16QAM	21.6	144.5
3		QPSK	22.4	173.8
		16QAM	21.7	147.9
5		QPSK	22.4	173.8
		16QAM	21.9	154.9
10		QPSK	22.3	169.8
		16QAM	21.8	151.4

OUTPUT POWER FOR LTE BAND 7

Part 27 / RSS 139 LTE Band 7				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2500-2570	QPSK	23.8	239.9
		16QAM	23.2	208.9
10		QPSK	23.9	245.5
		16QAM	23.0	199.5
15		QPSK	23.8	239.9
		16QAM	23.1	204.2
20		QPSK	23.8	239.9
		16QAM	23.3	213.8

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	699-716	QPSK	21.4	138.0
		16QAM	20.5	112.2
3		QPSK	21.6	144.5
		16QAM	20.9	123.0
5		QPSK	21.6	144.5
		16QAM	21.0	125.9
10		QPSK	21.6	144.5
		16QAM	20.7	117.5

OUTPUT POWER FOR LTE BAND 13

Part 27 /RSS 130 LTE Band 13				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
5	777-787	QPSK	21.5	141.3
		16QAM	20.9	123.0
10		QPSK	21.3	134.9
		16QAM	20.5	112.2

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
5	704-716	QPSK	21.6	144.5
		16QAM	21.1	128.8
10		QPSK	21.5	141.3
		16QAM	20.9	123.0

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
1.4	1850-1915	QPSK	23.5	223.9
		16QAM	22.7	186.2
3		QPSK	23.5	223.9
		16QAM	22.6	182.0
5		QPSK	23.5	223.9
		16QAM	23.1	204.2
10		QPSK	23.5	223.9
		16QAM	22.8	190.5
15		QPSK	23.5	223.9
		16QAM	23.0	199.5
20		QPSK	23.5	223.9
		16QAM	23.0	199.5

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	814-824	QPSK	22.3	169.8
		16QAM	21.5	141.3
3		QPSK	22.3	169.8
		16QAM	21.7	147.9
5		QPSK	22.3	169.8
		16QAM	21.8	151.4
10		QPSK	22.3	169.8
		16QAM	21.3	134.9

OUTPUT POWER FOR LTE BAND 27

Part 90 LTE Band 27				
Bandwidth (MHz)	Frequency Range	Modulation	ERP (Average)	
			dBm	mW
1.4	814-824	QPSK	20.3	107.2
		16QAM	19.6	91.2
3		QPSK	20.3	107.2
		16QAM	19.5	89.1
5		QPSK	20.3	107.2
		16QAM	19.7	93.3
10		QPSK	20.2	104.7
		16QAM	19.6	91.2

OUTPUT POWER FOR LTE BAND 30

Part 27 /RSS 195 LTE Band 30				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2305-2315	QPSK	22.5	177.8
		16QAM	21.9	154.9
10		QPSK	22.5	177.8
		16QAM	21.5	141.3

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41				
Bandwidth (MHz)	Frequency Range	Modulation	EIRP (Average)	
			dBm	mW
5	2496-2690	QPSK	22.3	169.8
		16QAM	21.7	147.9
10		QPSK	22.3	169.8
		16QAM	22.0	158.5
15		QPSK	22.2	166.0
		16QAM	21.8	151.4
20		QPSK	22.3	169.8
		16QAM	22.0	158.5

5.4. SOFTWARE AND FIRMWARE

The EUT software installed during testing was 14E32020u and firmware was 1.54.09.

5.5. MAXIMUM ANTENNA GAIN

Please see table below:

LTE BANDS	Antenna C Antenna Gain (dBi)	Antenna D Antenna Gain (dBi)
LTE Band 2, 1850 – 1910 MHz	1.47	1.07
LTE Band 4, 1710 – 1755 MHz	0.29	1.11
LTE Band 5, 824 – 849 MHz	0.24	0.51
LTE Band 7, 2500 – 2570 MHz	0.12	0.35
LTE Band 12, 699 – 716 MHz	2.16	0.87
LTE Band 13, 777 – 787 MHz	-0.04	0.67
LTE Band 17, 704 – 716 MHz	2.16	0.87
LTE Band 25, 1850 – 1915 MHz	1.47	1.07
LTE Band 26, 814 – 824 MHz	0.24	0.48
LTE Band 27, 814 – 824 MHz	0.24	0.48
LTE Band 30, 2305 – 2315 MHz	0.85	0.75
LTE Band 41, 2496 – 2690 MHz	0.14	0.35

5.6. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 17, Band 25, Band 26, Band 27, Band 30, and Band 41.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

Tests were performed on the conducted test at Antenna C port as worst case since it has higher output powers.

The EUT was investigated in three orthogonal orientations X/Y/Z, it was determined that X (Flatbed) orientation was worst-case orientation for all bands without AC/DC adapter and headset.

Radiated spurious emissions were investigated below 30 MHz, from 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz-1 GHz.

5.7. DESCRIPTION OF TEST SETUP

TESTS SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop AC Adapter	Dell	FA90PE1-00	N/A
Laptop	Dell	Latitude 3540	N/A
DC power supply	Sorensen	XT-20-3	N/A

I/O CABLES (RF CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	1.4m	N/A
3	RF In/Out	1	EUT	Un-shielded	0.4m	N/A
4	RF In/Out	1	Barrel	N/A	N/A	N/A
5	RF In/Out	1	Communication Test Set	Un-shielded	1m	N/A

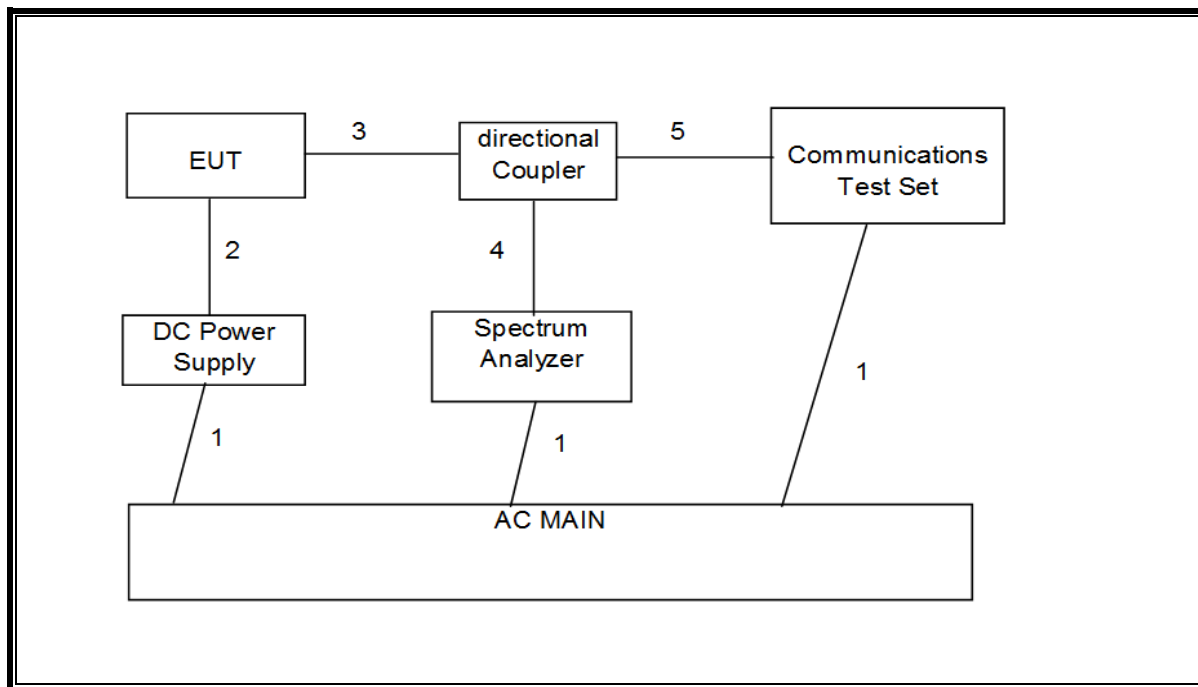
I/O CABLES (RF RADIATED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5m	NA

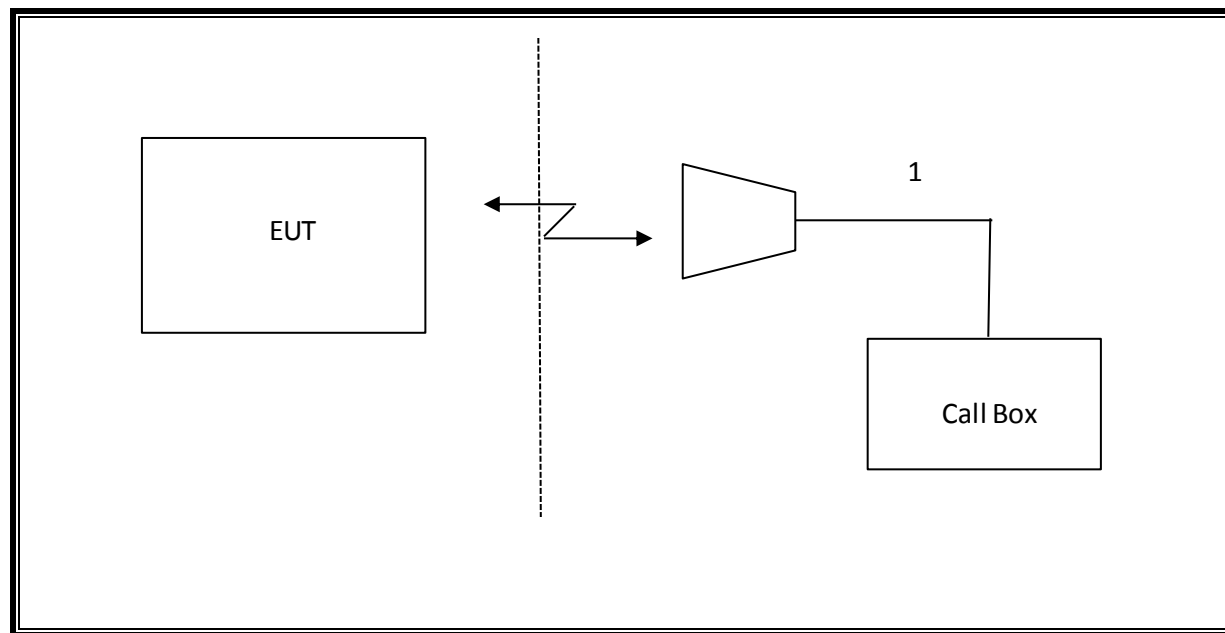
TEST SETUP

SETUP DIAGRAM FOR TESTS

CONDUCTED SETUP



RADIATED SETUP



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T300	11/10/17
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T426	9/23/2017
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-	T243	10/11/2017
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T285	6/20/2017
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	T1613	9/23/2017
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T862	4/18/2017
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T899	5/26/2017
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-	T491	5/31/2017
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T834	6/17/2017
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A-544	T1210	6/30/2017
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T863	4/26/2017
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T900	5/3/2017
Amplifier, 1 to 18GHz, 35dB	Ampical	AMP1G18-35	T1569	9/15/2017
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T835	6/18/2017
* Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	T906	2/03/2017
Spectrum Analyzer, PSA 3Hz to 44GHz	Keysight	E4446A	T123	10/20/2017
Directional Coupler	KRYTAR	152610	T1536	4/11/2017
Directional Coupler	KRYTAR	152610	T1537	4/11/2017
Power Meter, P-series single channel	Keysight	N1912A	T1245	5/03/2017
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	T1226	5/18/2017
* Filter, HPF 3.0GHz	MICROTRONICS	HPM17543	T487	1/26/2017
Filter, HPF 1.2GHz	Micro-Tronics	WHKX1.2/15G-6ST	T1182	5/31/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T1466	3/09/2017
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T959	7/09/2017
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T971	8/05/2017
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T1154	3/12/2017
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T260	7/20/2017
Antenna, Horn 1-18GHz	Emco	3115	T59	11/18/2017
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826/B	T447	06/16/2017
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Keysight	8449B	T402	07/05/2017
Amplifier, 26.5GHz to 40GHz	Miteq	NSP 4000 SP2	T88	04/07/2017
Antenna, Horn 26.5GHz to 40GHz	ARA	MWH-2640/B	T446	05/25/2017

NOTE: * testing is completed before equipment calibration expiration date.

7. TRANSMITTER OUTPUT POWER (CONDUCTED AND ERP/EIRP)

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

ERP/EIRP LIMIT

FCC: §2.1046, §22.913, §24.232, §27.50 and §90.635

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.

27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP

§90.635 Limitations on power and antenna height.

(a) The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Table—Equivalent Power and Antenna Heights for Base Stations in the 851–869 MHz and 935–940 MHz Bands Which Have a Requirement for a 32 km (20 mi) Service Area Radius

Antenna height (ATT) meters (feet)	Effective radiated power (watts) ^{1 2 4}
Above 1,372 (4,500)	65
Above 1,220 (4,000) to 1,372 (4,500)	70
Above 1,067 (3,500) to 1,220 (4,000)	75
Above 915 (3,000) to 1,067 (3,500)	100
Above 763 (2,500) to 915 (3,000)	140
Above 610 (2,000) to 763 (2,500)	200
Above 458 (1,500) to 610 (2,000)	350
Above 305 (1,000) to 458 (1,500)	600
Up to 305 (1,000)	³ 1,000

¹Power is given in terms of effective radiated power (ERP).

²Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.

³Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).

⁴Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

ANSI C63.26:2015/ TIA / EIA 603-D Clause 2.2.17
KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 27
- LTE Band 30
- LTE Band 41

RESULTS

7.1. ANTENNA C

7.1.1. LTE BAND 2

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Antenna gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.1	25.6	33.0	-7.4
				1	2	24.2	25.6	33.0	-7.4
				1	5	24.1	25.6	33.0	-7.4
				3	0	24.2	25.6	33.0	-7.4
				3	1	24.1	25.6	33.0	-7.4
				3	2	24.2	25.7	33.0	-7.4
			16QAM	6	0	24.1	25.6	33.0	-7.4
				1	0	23.9	25.3	33.0	-7.7
				1	2	23.9	25.4	33.0	-7.6
				1	5	23.9	25.3	33.0	-7.7
				3	0	23.9	25.3	33.0	-7.7
				3	1	23.9	25.3	33.0	-7.7
1.4	18900	1880.0	QPSK	3	2	24.0	25.4	33.0	-7.6
				6	0	23.0	24.4	33.0	-8.6
				1	0	24.6	26.1	33.0	-6.9
				1	2	24.2	25.7	33.0	-7.3
				1	5	24.2	25.6	33.0	-7.4
				3	0	24.3	25.7	33.0	-7.3
			16QAM	3	1	24.1	25.6	33.0	-7.4
				3	2	24.3	25.8	33.0	-7.2
				1	0	24.3	25.8	33.0	-7.2
				1	2	24.1	25.6	33.0	-7.4
				1	5	24.2	25.7	33.0	-7.3
				3	0	24.1	25.5	33.0	-7.5
1.4	19193	1909.3	QPSK	3	1	24.1	25.6	33.0	-7.4
				3	2	24.1	25.6	33.0	-7.4
				6	0	23.0	24.5	33.0	-8.5
				1	0	24.0	25.5	33.0	-7.5
				1	2	24.0	25.5	33.0	-7.5
				1	5	24.0	25.5	33.0	-7.5
			16QAM	3	0	24.1	25.5	33.0	-7.5
				3	1	24.1	25.6	33.0	-7.5
				3	2	24.1	25.6	33.0	-7.5
				6	0	24.0	25.5	33.0	-7.5
				1	0	23.8	25.3	33.0	-7.8
				1	2	23.7	25.2	33.0	-7.8
1.4	19193	1909.3	QPSK	1	5	23.7	25.2	33.0	-7.8
				3	0	23.9	25.4	33.0	-7.6
				3	1	24.0	25.4	33.0	-7.6
				3	2	24.0	25.4	33.0	-7.6
				6	0	22.9	24.3	33.0	-8.7
				1	0	23.8	25.3	33.0	-7.8
			16QAM	1	2	23.7	25.2	33.0	-7.8
				1	5	23.7	25.2	33.0	-7.8
				3	0	23.9	25.4	33.0	-7.6
				3	1	24.0	25.4	33.0	-7.6
				3	2	24.0	25.4	33.0	-7.6
				6	0	22.9	24.3	33.0	-8.7

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3.0	18615	1851.5	QPSK	1	0	24.5	25.9	33.0	-7.1
				1	7	24.5	26.0	33.0	-7.0
				1	14	24.3	25.8	33.0	-7.2
				8	0	24.4	25.9	33.0	-7.1
				8	4	24.5	25.9	33.0	-7.1
				8	7	24.4	25.9	33.0	-7.1
				15	0	24.5	25.9	33.0	-7.1
			16QAM	1	0	24.3	25.8	33.0	-7.2
				1	7	24.2	25.7	33.0	-7.3
				1	14	24.1	25.6	33.0	-7.5
				8	0	23.2	24.7	33.0	-8.4
				8	4	23.2	24.7	33.0	-8.3
				8	7	23.2	24.6	33.0	-8.4
				15	0	23.1	24.6	33.0	-8.4
3.0	18900	1880.0	QPSK	1	0	24.7	26.1	33.0	-6.9
				1	7	24.5	26.0	33.0	-7.0
				1	14	24.5	26.0	33.0	-7.0
				8	0	24.5	26.0	33.0	-7.0
				8	4	24.6	26.0	33.0	-7.0
				8	7	24.5	26.0	33.0	-7.0
				15	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	24.1	25.6	33.0	-7.4
				1	7	24.2	25.7	33.0	-7.4
				1	14	24.2	25.7	33.0	-7.3
				8	0	23.3	24.8	33.0	-8.2
				8	4	23.4	24.8	33.0	-8.2
				8	7	23.3	24.8	33.0	-8.2
				15	0	23.3	24.8	33.0	-8.2
3.0	19185	1908.5	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	7	24.3	25.8	33.0	-7.2
				1	14	24.3	25.7	33.0	-7.3
				8	0	24.4	25.8	33.0	-7.2
				8	4	24.4	25.8	33.0	-7.2
				8	7	24.3	25.8	33.0	-7.2
				15	0	24.4	25.8	33.0	-7.2
			16QAM	1	0	24.0	25.4	33.0	-7.6
				1	7	24.0	25.5	33.0	-7.5
				1	14	23.9	25.3	33.0	-7.7
				8	0	23.2	24.7	33.0	-8.3
				8	4	23.2	24.6	33.0	-8.4
				8	7	23.1	24.6	33.0	-8.4
				15	0	23.1	24.6	33.0	-8.4

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	18625	1852.5	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	12	24.5	26.0	33.0	-7.0
				1	24	24.5	26.0	33.0	-7.0
				12	0	24.5	26.0	33.0	-7.0
				12	6	24.5	26.0	33.0	-7.0
				12	11	24.5	25.9	33.0	-7.1
				25	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	24.7	26.1	33.0	-6.9
				1	12	24.7	26.2	33.0	-6.8
				1	24	24.7	26.2	33.0	-6.9
				12	0	23.6	25.1	33.0	-7.9
				12	6	23.6	25.1	33.0	-7.9
				12	11	23.6	25.1	33.0	-7.9
				25	0	23.6	25.0	33.0	-8.0
5.0	18900	1880.0	QPSK	1	0	25.2	26.6	33.0	-6.4
				1	12	24.6	26.1	33.0	-6.9
				1	24	24.6	26.0	33.0	-7.0
				12	0	24.6	26.0	33.0	-7.0
				12	6	24.6	26.1	33.0	-6.9
				12	11	24.6	26.1	33.0	-7.0
				25	0	24.6	26.0	33.0	-7.0
			16QAM	1	0	24.6	26.1	33.0	-6.9
				1	12	25.0	26.5	33.0	-6.5
				1	24	25.1	26.5	33.0	-6.5
				12	0	23.7	25.2	33.0	-7.9
				12	6	23.7	25.2	33.0	-7.8
				12	11	23.7	25.2	33.0	-7.8
				25	0	23.6	25.1	33.0	-7.9
5.0	19175	1907.5	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	12	24.4	25.9	33.0	-7.1
				1	24	24.5	26.0	33.0	-7.0
				12	0	24.4	25.9	33.0	-7.1
				12	6	24.5	26.0	33.0	-7.0
				12	11	24.4	25.9	33.0	-7.1
				25	0	24.4	25.9	33.0	-7.1
			16QAM	1	0	24.6	26.1	33.0	-6.9
				1	12	24.5	26.0	33.0	-7.0
				1	24	24.6	26.0	33.0	-7.0
				12	0	23.5	25.0	33.0	-8.0
				12	6	23.5	25.0	33.0	-8.0
				12	11	23.5	25.0	33.0	-8.1
				25	0	23.4	24.9	33.0	-8.1

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	18650	1855.0	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	24	24.5	26.0	33.0	-7.0
				1	49	24.5	25.9	33.0	-7.1
				25	0	24.6	26.0	33.0	-7.0
				25	12	24.6	26.0	33.0	-7.0
				25	24	24.5	25.9	33.0	-7.1
				50	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	24.0	25.5	33.0	-7.5
				1	24	24.0	25.5	33.0	-7.5
				1	49	24.0	25.4	33.0	-7.6
				25	0	23.1	24.6	33.0	-8.4
				25	12	23.2	24.6	33.0	-8.4
				25	24	23.1	24.5	33.0	-8.5
				50	0	23.1	24.5	33.0	-8.5
10.0	18900	1880.0	QPSK	1	0	24.7	26.1	33.0	-6.9
				1	24	24.5	26.0	33.0	-7.0
				1	49	24.5	25.9	33.0	-7.1
				25	0	24.5	26.0	33.0	-7.0
				25	12	24.6	26.1	33.0	-6.9
				25	24	24.5	26.0	33.0	-7.0
				50	0	24.6	26.1	33.0	-7.0
			16QAM	1	0	23.9	25.3	33.0	-7.7
				1	24	23.9	25.4	33.0	-7.6
				1	49	23.9	25.3	33.0	-7.7
				25	0	23.1	24.6	33.0	-8.4
				25	12	23.1	24.6	33.0	-8.4
				25	24	23.1	24.5	33.0	-8.5
				50	0	23.1	24.5	33.0	-8.5
10.0	19150	1905.0	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	24	24.4	25.9	33.0	-7.1
				1	49	24.4	25.9	33.0	-7.2
				25	0	24.6	26.0	33.0	-7.0
				25	12	24.5	26.0	33.0	-7.0
				25	24	24.5	25.9	33.0	-7.1
				50	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	24.3	25.8	33.0	-7.2
				1	24	24.3	25.8	33.0	-7.2
				1	49	24.2	25.7	33.0	-7.3
				25	0	23.1	24.5	33.0	-8.5
				25	12	23.0	24.5	33.0	-8.5
				25	24	23.0	24.5	33.0	-8.6
				50	0	23.0	24.5	33.0	-8.6

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	18675	1857.5	QPSK	1	0	24.6	26.1	33.0	-6.9
				1	37	24.4	25.8	33.0	-7.2
				1	74	24.3	25.8	33.0	-7.2
				36	0	24.4	25.9	33.0	-7.1
				36	16	24.5	25.9	33.0	-7.1
				36	35	24.5	25.9	33.0	-7.1
				75	0	24.4	25.9	33.0	-7.1
			16-QAM	1	0	24.1	25.5	33.0	-7.5
				1	37	23.8	25.3	33.0	-7.7
				1	74	23.7	25.2	33.0	-7.8
				36	0	22.6	24.1	33.0	-9.0
				36	16	22.6	24.1	33.0	-8.9
				36	35	22.6	24.1	33.0	-8.9
				75	0	22.7	24.2	33.0	-8.8
15.0	18900	1880.0	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	37	24.4	25.9	33.0	-7.1
				1	74	24.4	25.9	33.0	-7.1
				36	0	24.5	25.9	33.0	-7.1
				36	16	24.5	26.0	33.0	-7.0
				36	35	24.5	26.0	33.0	-7.1
				75	0	24.5	25.9	33.0	-7.1
			16-QAM	1	0	23.3	24.8	33.0	-8.2
				1	37	23.5	25.0	33.0	-8.0
				1	74	22.6	24.1	33.0	-8.9
				36	0	22.6	24.1	33.0	-8.9
				36	16	22.7	24.2	33.0	-8.9
				36	35	22.7	24.2	33.0	-8.8
				75	0	22.8	24.3	33.0	-8.7
15.0	19125	1902.5	QPSK	1	0	24.4	25.9	33.0	-7.1
				1	37	24.3	25.7	33.0	-7.3
				1	74	24.1	25.6	33.0	-7.4
				36	0	24.4	25.9	33.0	-7.1
				36	16	24.5	26.0	33.0	-7.1
				36	35	24.3	25.8	33.0	-7.2
				75	0	24.4	25.8	33.0	-7.2
			16-QAM	1	0	22.8	24.3	33.0	-8.7
				1	37	24.0	25.5	33.0	-7.5
				1	74	23.6	25.1	33.0	-7.9
				36	0	22.7	24.2	33.0	-8.8
				36	16	22.7	24.1	33.0	-8.9
				36	35	22.6	24.0	33.0	-9.0
				75	0	22.7	24.2	33.0	-8.8

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	18700	1860.0	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	49	24.5	26.0	33.0	-7.0
				1	99	24.2	25.7	33.0	-7.3
				50	0	24.4	25.9	33.0	-7.1
				50	24	24.4	25.9	33.0	-7.1
				50	49	24.4	25.9	33.0	-7.1
				100	0	24.4	25.9	33.0	-7.1
			16-QAM	1	0	23.6	25.0	33.0	-8.0
				1	49	24.0	25.5	33.0	-7.6
				1	99	23.7	25.2	33.0	-7.8
				50	0	22.6	24.1	33.0	-8.9
				50	24	22.7	24.2	33.0	-8.8
				50	49	22.6	24.1	33.0	-8.9
				100	0	22.6	24.1	33.0	-8.9
20.0	18900	1880.0	QPSK	1	0	24.6	26.1	33.0	-6.9
				1	49	24.4	25.9	33.0	-7.1
				1	99	24.3	25.7	33.0	-7.3
				50	0	24.5	25.9	33.0	-7.1
				50	24	24.5	26.0	33.0	-7.0
				50	49	24.3	25.8	33.0	-7.2
				100	0	24.5	25.9	33.0	-7.1
			16-QAM	1	0	24.2	25.7	33.0	-7.3
				1	49	24.0	25.4	33.0	-7.6
				1	99	24.0	25.4	33.0	-7.6
				50	0	22.8	24.2	33.0	-8.8
				50	24	23.1	24.5	33.0	-8.5
				50	49	22.6	24.1	33.0	-8.9
				100	0	22.7	24.1	33.0	-8.9
20.0	19100	1900.0	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	49	24.4	25.9	33.0	-7.1
				1	99	24.1	25.6	33.0	-7.4
				50	0	24.3	25.8	33.0	-7.2
				50	24	24.5	26.0	33.0	-7.1
				50	49	24.4	25.8	33.0	-7.2
				100	0	24.4	25.9	33.0	-7.1
			16-QAM	1	0	23.8	25.3	33.0	-7.7
				1	49	24.0	25.5	33.0	-7.6
				1	99	23.4	24.9	33.0	-8.1
				50	0	22.8	24.3	33.0	-8.7
				50	24	22.7	24.2	33.0	-8.9
				50	49	22.5	24.0	33.0	-9.0
				100	0	22.6	24.1	33.0	-8.9

7.1.2. LTE BAND 4

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	2	24.6	24.9	30.0	-5.1
				1	5	24.6	24.9	30.0	-5.1
				3	0	24.7	25.0	30.0	-5.0
				3	1	24.7	25.0	30.0	-5.0
				3	2	24.6	24.8	30.0	-5.2
			16QAM	6	0	24.6	24.9	30.0	-5.1
				1	0	23.8	24.1	30.0	-5.9
				1	2	23.8	24.1	30.0	-5.9
				1	5	23.8	24.1	30.0	-5.9
				3	0	23.9	24.2	30.0	-5.8
				3	1	23.9	24.2	30.0	-5.8
1.4	20175	1732.5	QPSK	3	2	23.9	24.2	30.0	-5.8
				6	0	22.9	23.2	30.0	-6.8
			16QAM	1	0	24.5	24.8	30.0	-5.2
				1	2	24.7	25.0	30.0	-5.0
				1	5	24.6	24.9	30.0	-5.1
				3	0	24.7	25.0	30.0	-5.0
			16QAM	3	1	24.7	25.0	30.0	-5.0
				3	2	24.7	25.0	30.0	-5.0
				6	0	24.6	24.9	30.0	-5.1
				1	0	23.9	24.2	30.0	-5.8
				1	2	24.0	24.3	30.0	-5.7
				1	5	23.9	24.2	30.0	-5.8
1.4	20393	1754.3	QPSK	3	0	24.0	24.3	30.0	-5.7
				3	1	24.0	24.3	30.0	-5.7
				3	2	24.0	24.3	30.0	-5.7
			16QAM	6	0	23.0	23.3	30.0	-6.7
				1	0	24.5	24.8	30.0	-5.2
				1	2	24.5	24.8	30.0	-5.2
			QPSK	1	5	24.5	24.8	30.0	-5.2
				3	0	24.6	24.8	30.0	-5.2
				3	1	24.6	24.9	30.0	-5.1
				3	2	24.6	24.8	30.0	-5.2
				6	0	24.5	24.8	30.0	-5.2
			16QAM	1	0	24.1	24.4	30.0	-5.6
				1	2	24.1	24.3	30.0	-5.7
				1	5	24.0	24.3	30.0	-5.7
				3	0	23.9	24.2	30.0	-5.8
				3	1	24.0	24.3	30.0	-5.7
				3	2	24.0	24.2	30.0	-5.8
				6	0	22.6	22.9	30.0	-7.1

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3.0	19965	1711.5	QPSK	1	0	24.6	24.9	30.0	-5.1
				1	7	24.7	25.0	30.0	-5.0
				1	14	24.6	24.9	30.0	-5.1
				8	0	24.7	24.9	30.0	-5.1
				8	4	24.7	25.0	30.0	-5.0
				8	7	24.7	25.0	30.0	-5.0
				15	0	24.6	24.9	30.0	-5.1
			16QAM	1	0	23.8	24.1	30.0	-5.9
				1	7	23.9	24.2	30.0	-5.8
				1	14	23.8	24.1	30.0	-5.9
				8	0	23.0	23.2	30.0	-6.8
				8	4	23.0	23.3	30.0	-6.7
				8	7	23.0	23.3	30.0	-6.7
				15	0	22.8	23.1	30.0	-6.9
3.0	20175	1732.5	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	7	24.5	24.8	30.0	-5.2
				1	14	24.6	24.9	30.0	-5.1
				8	0	24.7	25.0	30.0	-5.0
				8	4	24.7	25.0	30.0	-5.0
				8	7	24.7	25.0	30.0	-5.0
				15	0	24.7	25.0	30.0	-5.0
			16QAM	1	0	23.7	24.0	30.0	-6.0
				1	7	23.9	24.2	30.0	-5.8
				1	14	23.8	24.1	30.0	-5.9
				8	0	23.0	23.3	30.0	-6.7
				8	4	23.0	23.3	30.0	-6.7
				8	7	23.0	23.3	30.0	-6.7
				15	0	22.9	23.2	30.0	-6.8
3.0	20385	1753.5	QPSK	1	0	24.5	24.8	30.0	-5.2
				1	7	24.7	25.0	30.0	-5.0
				1	14	24.5	24.8	30.0	-5.2
				8	0	24.6	24.9	30.0	-5.1
				8	4	24.6	24.9	30.0	-5.1
				8	7	24.6	24.9	30.0	-5.1
				15	0	24.6	24.9	30.0	-5.1
			16QAM	1	0	24.3	24.6	30.0	-5.4
				1	7	24.1	24.4	30.0	-5.6
				1	14	24.2	24.5	30.0	-5.5
				8	0	22.7	23.0	30.0	-7.0
				8	4	22.7	23.0	30.0	-7.0
				8	7	22.7	23.0	30.0	-7.0
				15	0	22.8	23.1	30.0	-6.9

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	19975	1712.5	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	12	24.6	24.9	30.0	-5.1
				1	24	24.7	25.0	30.0	-5.0
				12	0	24.7	25.0	30.0	-5.0
				12	6	24.7	25.0	30.0	-5.0
				12	11	24.7	25.0	30.0	-5.0
				25	0	24.7	25.0	30.0	-5.0
			16QAM	1	0	24.0	24.3	30.0	-5.7
				1	12	23.9	24.2	30.0	-5.8
				1	24	23.9	24.2	30.0	-5.8
				12	0	22.9	23.2	30.0	-6.8
				12	6	22.9	23.2	30.0	-6.8
				12	11	22.9	23.2	30.0	-6.8
				25	0	22.9	23.2	30.0	-6.8
5.0	20175	1732.5	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	12	24.6	24.9	30.0	-5.1
				1	24	24.7	25.0	30.0	-5.0
				12	0	24.6	24.9	30.0	-5.1
				12	6	24.7	25.0	30.0	-5.0
				12	11	24.7	25.0	30.0	-5.0
				25	0	24.7	25.0	30.0	-5.0
			16QAM	1	0	24.0	24.3	30.0	-5.7
				1	12	24.1	24.4	30.0	-5.6
				1	24	24.1	24.4	30.0	-5.6
				12	0	22.9	23.2	30.0	-6.8
				12	6	23.0	23.3	30.0	-6.7
				12	11	23.0	23.3	30.0	-6.7
				25	0	22.9	23.2	30.0	-6.8
5.0	20375	1752.5	QPSK	1	0	24.6	24.9	30.0	-5.1
				1	12	24.6	24.9	30.0	-5.1
				1	24	24.6	24.9	30.0	-5.1
				12	0	24.6	24.9	30.0	-5.1
				12	6	24.6	24.9	30.0	-5.1
				12	11	24.6	24.9	30.0	-5.1
				25	0	24.6	24.9	30.0	-5.1
			16QAM	1	0	24.3	24.6	30.0	-5.4
				1	12	24.3	24.6	30.0	-5.4
				1	24	24.3	24.6	30.0	-5.4
				12	0	23.0	23.2	30.0	-6.8
				12	6	22.9	23.2	30.0	-6.8
				12	11	23.0	23.3	30.0	-6.7
				25	0	22.9	23.2	30.0	-6.8

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	20000	1715.0	QPSK	1	0	24.9	25.2	30.0	-4.8
				1	24	24.7	25.0	30.0	-5.0
				1	49	24.8	25.0	30.0	-5.0
				25	0	24.8	25.1	30.0	-4.9
				25	12	24.8	25.0	30.0	-5.0
				25	24	24.7	25.0	30.0	-5.0
				50	0	24.7	25.0	30.0	-5.0
			16QAM	1	0	24.6	24.9	30.0	-5.1
				1	24	24.3	24.6	30.0	-5.4
				1	49	24.4	24.6	30.0	-5.4
				25	0	23.7	24.0	30.0	-6.0
				25	12	23.8	24.1	30.0	-5.9
				25	24	23.8	24.1	30.0	-5.9
				50	0	23.8	24.0	30.0	-6.0
10.0	20175	1732.5	QPSK	1	0	24.8	25.1	30.0	-4.9
				1	24	24.6	24.9	30.0	-5.1
				1	49	24.8	25.1	30.0	-4.9
				25	0	24.7	25.0	30.0	-5.0
				25	12	24.8	25.0	30.0	-5.0
				25	24	24.7	25.0	30.0	-5.0
				50	0	24.8	25.1	30.0	-4.9
			16QAM	1	0	24.0	24.3	30.0	-5.7
				1	24	23.8	24.1	30.0	-5.9
				1	49	23.9	24.2	30.0	-5.8
				25	0	22.9	23.1	30.0	-6.9
				25	12	23.0	23.2	30.0	-6.8
				25	24	23.0	23.3	30.0	-6.7
				50	0	23.0	23.2	30.0	-6.8
10.0	20350	1750.0	QPSK	1	0	24.8	25.1	30.0	-4.9
				1	24	24.6	24.9	30.0	-5.1
				1	49	24.7	25.0	30.0	-5.0
				25	0	24.7	25.0	30.0	-5.0
				25	12	24.7	25.0	30.0	-5.0
				25	24	24.6	24.9	30.0	-5.1
				50	0	24.7	25.0	30.0	-5.0
			16QAM	1	0	24.3	24.6	30.0	-5.4
				1	24	24.2	24.5	30.0	-5.5
				1	49	24.2	24.5	30.0	-5.5
				25	0	22.9	23.2	30.0	-6.8
				25	12	22.9	23.2	30.0	-6.8
				25	24	22.9	23.2	30.0	-6.8
				50	0	22.9	23.2	30.0	-6.8

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	20025	1717.5	QPSK	1	0	24.9	25.2	30.0	-4.8
				1	37	24.5	24.8	30.0	-5.2
				1	74	24.6	24.9	30.0	-5.1
				36	0	24.8	25.1	30.0	-4.9
				36	16	24.7	25.0	30.0	-5.0
				36	35	24.7	25.0	30.0	-5.0
				75	0	24.7	25.0	30.0	-5.0
			16-QAM	1	0	24.4	24.7	30.0	-5.3
				1	37	24.1	24.4	30.0	-5.6
				1	74	24.2	24.5	30.0	-5.5
				36	0	22.9	23.2	30.0	-6.8
				36	16	22.9	23.2	30.0	-6.8
				36	35	22.9	23.2	30.0	-6.8
				75	0	22.9	23.2	30.0	-6.8
15.0	20175	1732.5	QPSK	1	0	24.8	25.1	30.0	-4.9
				1	37	24.6	24.8	30.0	-5.2
				1	74	24.7	25.0	30.0	-5.0
				36	0	24.7	25.0	30.0	-5.0
				36	16	24.7	25.0	30.0	-5.0
				36	35	24.7	25.0	30.0	-5.0
				75	0	24.7	25.0	30.0	-5.0
			16-QAM	1	0	23.9	24.2	30.0	-5.8
				1	37	23.7	24.0	30.0	-6.0
				1	74	23.8	24.1	30.0	-5.9
				36	0	22.9	23.2	30.0	-6.8
				36	16	22.9	23.2	30.0	-6.8
				36	35	22.9	23.2	30.0	-6.8
				75	0	23.0	23.2	30.0	-6.8
15.0	20325	1747.5	QPSK	1	0	24.9	25.2	30.0	-4.8
				1	37	24.3	24.6	30.0	-5.4
				1	74	24.6	24.9	30.0	-5.1
				36	0	24.7	25.0	30.0	-5.0
				36	16	24.6	24.9	30.0	-5.1
				36	35	24.7	25.0	30.0	-5.0
				75	0	24.6	24.9	30.0	-5.1
			16-QAM	1	0	24.4	24.7	30.0	-5.3
				1	37	24.1	24.4	30.0	-5.6
				1	74	24.2	24.5	30.0	-5.5
				36	0	22.9	23.2	30.0	-6.8
				36	16	22.9	23.2	30.0	-6.8
				36	35	22.9	23.2	30.0	-6.8
				75	0	22.9	23.2	30.0	-6.8

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Antenna Gain (dBi)		0.29							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	20050	1720.0	QPSK	1	0	24.6	24.9	30.0	-5.1
				1	49	24.1	24.4	30.0	-5.6
				1	99	24.2	24.5	30.0	-5.5
				50	0	24.4	24.7	30.0	-5.3
				50	24	24.2	24.5	30.0	-5.5
				50	49	24.2	24.5	30.0	-5.5
				100	0	24.3	24.6	30.0	-5.4
			16-QAM	1	0	24.0	24.3	30.0	-5.7
				1	49	23.4	23.7	30.0	-6.3
				1	99	23.5	23.8	30.0	-6.2
				50	0	22.2	22.5	30.0	-7.5
				50	24	22.2	22.5	30.0	-7.5
				50	49	22.2	22.5	30.0	-7.5
				100	0	22.3	22.6	30.0	-7.4
20.0	20175	1732.5	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	49	24.2	24.5	30.0	-5.5
				1	99	24.3	24.6	30.0	-5.4
				50	0	24.3	24.6	30.0	-5.4
				50	24	24.3	24.6	30.0	-5.4
				50	49	24.3	24.5	30.0	-5.5
				100	0	24.3	24.6	30.0	-5.4
			16-QAM	1	0	24.2	24.5	30.0	-5.5
				1	49	23.6	23.9	30.0	-6.1
				1	99	23.7	24.0	30.0	-6.0
				50	0	22.2	22.5	30.0	-7.5
				50	24	22.3	22.6	30.0	-7.4
				50	49	22.3	22.6	30.0	-7.4
				100	0	22.3	22.6	30.0	-7.4
20.0	20300	1745.0	QPSK	1	0	24.7	25.0	30.0	-5.0
				1	49	24.1	24.4	30.0	-5.6
				1	99	24.2	24.5	30.0	-5.5
				50	0	24.3	24.6	30.0	-5.4
				50	24	24.2	24.5	30.0	-5.5
				50	49	24.2	24.5	30.0	-5.5
				100	0	24.2	24.5	30.0	-5.5
			16-QAM	1	0	24.1	24.4	30.0	-5.6
				1	49	23.4	23.7	30.0	-6.3
				1	99	23.6	23.8	30.0	-6.2
				50	0	22.2	22.5	30.0	-7.5
				50	24	22.2	22.5	30.0	-7.5
				50	49	22.2	22.5	30.0	-7.5
				100	0	22.2	22.5	30.0	-7.5

7.1.3. LTE BAND 5

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 5 (1.4MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	24.7	22.7	38.45	-15.7
				1	2	24.4	22.5	38.45	-15.9
				1	5	24.4	22.5	38.45	-16.0
				3	0	24.6	22.7	38.45	-15.8
				3	1	24.6	22.7	38.45	-15.8
				3	2	24.3	22.4	38.45	-16.0
			16QAM	6	0	24.4	22.4	38.45	-16.0
				1	0	23.7	21.8	38.45	-16.7
				1	2	23.7	21.8	38.45	-16.6
				1	5	23.7	21.8	38.45	-16.7
				3	0	23.7	21.8	38.45	-16.7
				3	1	23.7	21.8	38.45	-16.6
				3	2	23.7	21.8	38.45	-16.6
				6	0	22.7	20.8	38.45	-17.6
1.4	20525	836.5	QPSK	1	0	24.4	22.5	38.45	-16.0
				1	2	24.3	22.4	38.45	-16.0
				1	5	24.3	22.4	38.45	-16.0
				3	0	24.4	22.5	38.45	-16.0
				3	1	24.4	22.5	38.45	-16.0
				3	2	24.4	22.5	38.45	-15.9
			16QAM	6	0	24.3	22.4	38.45	-16.0
				1	0	23.9	22.0	38.45	-16.4
				1	2	23.9	22.0	38.45	-16.4
				1	5	23.9	22.0	38.45	-16.5
				3	0	23.7	21.8	38.45	-16.6
				3	1	23.8	21.8	38.45	-16.6
				3	2	23.8	21.9	38.45	-16.6
				6	0	22.5	20.6	38.45	-17.9
1.4	20643	848.3	QPSK	1	0	24.3	22.4	38.45	-16.0
				1	2	24.4	22.5	38.45	-16.0
				1	5	24.3	22.4	38.45	-16.1
				3	0	24.4	22.5	38.45	-15.9
				3	1	24.4	22.5	38.45	-15.9
				3	2	24.5	22.6	38.45	-15.9
			16QAM	6	0	24.3	22.4	38.45	-16.0
				1	0	23.6	21.7	38.45	-16.8
				1	2	23.6	21.7	38.45	-16.7
				1	5	23.6	21.6	38.45	-16.8
				3	0	23.7	21.8	38.45	-16.6
				3	1	23.8	21.8	38.45	-16.6
				3	2	23.8	21.8	38.45	-16.6
				6	0	22.7	20.8	38.45	-17.7

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	20415	825.5	QPSK	1	0	24.5	22.6	38.45	-15.9
				1	7	24.4	22.5	38.45	-15.9
				1	14	24.4	22.5	38.45	-16.0
				8	0	24.5	22.5	38.45	-15.9
				8	4	24.4	22.5	38.45	-15.9
				8	7	24.5	22.6	38.45	-15.9
				15	0	24.5	22.6	38.45	-15.9
			16QAM	1	0	23.7	21.8	38.45	-16.6
				1	7	23.8	21.8	38.45	-16.6
				1	14	23.6	21.7	38.45	-16.7
				8	0	22.8	20.9	38.45	-17.5
				8	4	22.8	20.9	38.45	-17.5
				8	7	22.9	21.0	38.45	-17.5
				15	0	22.6	20.7	38.45	-17.8
3.0	20525	836.5	QPSK	1	0	24.5	22.6	38.45	-15.9
				1	7	24.4	22.5	38.45	-15.9
				1	14	24.4	22.5	38.45	-16.0
				8	0	24.4	22.5	38.45	-15.9
				8	4	24.4	22.5	38.45	-16.0
				8	7	24.4	22.5	38.45	-15.9
				15	0	24.4	22.5	38.45	-16.0
			16QAM	1	0	23.5	21.6	38.45	-16.8
				1	7	23.5	21.6	38.45	-16.8
				1	14	23.5	21.6	38.45	-16.9
				8	0	22.7	20.8	38.45	-17.6
				8	4	22.7	20.8	38.45	-17.7
				8	7	22.7	20.8	38.45	-17.6
				15	0	22.6	20.7	38.45	-17.7
3.0	20635	847.5	QPSK	1	0	24.4	22.5	38.45	-16.0
				1	7	24.4	22.5	38.45	-15.9
				1	14	24.3	22.4	38.45	-16.0
				8	0	24.5	22.6	38.45	-15.9
				8	4	24.5	22.5	38.45	-15.9
				8	7	24.5	22.6	38.45	-15.9
				15	0	24.4	22.5	38.45	-15.9
			16QAM	1	0	24.1	22.2	38.45	-16.3
				1	7	24.0	22.1	38.45	-16.4
				1	14	24.0	22.1	38.45	-16.3
				8	0	22.5	20.6	38.45	-17.8
				8	4	22.5	20.6	38.45	-17.8
				8	7	22.5	20.6	38.45	-17.8
				15	0	22.7	20.8	38.45	-17.7

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	20425	826.5	QPSK	1	0	24.6	22.7	38.45	-15.8
				1	12	24.5	22.6	38.45	-15.9
				1	24	24.4	22.5	38.45	-15.9
				12	0	24.5	22.5	38.45	-15.9
				12	6	24.5	22.6	38.45	-15.9
				12	11	24.4	22.5	38.45	-15.9
				25	0	24.5	22.6	38.45	-15.9
			16QAM	1	0	23.9	22.0	38.45	-16.5
				1	12	23.7	21.8	38.45	-16.6
				1	24	23.8	21.9	38.45	-16.6
				12	0	22.8	20.9	38.45	-17.6
				12	6	22.8	20.8	38.45	-17.6
				12	11	22.7	20.8	38.45	-17.6
				25	0	22.7	20.8	38.45	-17.7
5.0	20525	836.5	QPSK	1	0	24.5	22.6	38.45	-15.9
				1	12	24.4	22.5	38.45	-15.9
				1	24	24.4	22.5	38.45	-15.9
				12	0	24.5	22.6	38.45	-15.8
				12	6	24.4	22.5	38.45	-15.9
				12	11	24.4	22.5	38.45	-15.9
				25	0	24.4	22.5	38.45	-15.9
			16QAM	1	0	23.9	22.0	38.45	-16.5
				1	12	23.8	21.9	38.45	-16.6
				1	24	23.8	21.9	38.45	-16.6
				12	0	22.8	20.9	38.45	-17.6
				12	6	22.7	20.8	38.45	-17.6
				12	11	22.7	20.8	38.45	-17.7
				25	0	22.6	20.7	38.45	-17.7
5.0	20625	846.5	QPSK	1	0	24.5	22.6	38.45	-15.9
				1	12	24.4	22.5	38.45	-15.9
				1	24	24.4	22.5	38.45	-15.9
				12	0	24.5	22.6	38.45	-15.9
				12	6	24.5	22.6	38.45	-15.9
				12	11	24.4	22.5	38.45	-15.9
				25	0	24.4	22.5	38.45	-16.0
			16QAM	1	0	24.2	22.3	38.45	-16.1
				1	12	24.2	22.3	38.45	-16.2
				1	24	24.2	22.3	38.45	-16.2
				12	0	22.8	20.9	38.45	-17.5
				12	6	22.8	20.9	38.45	-17.6
				12	11	22.8	20.9	38.45	-17.6
				25	0	22.7	20.8	38.45	-17.7

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	20450	829.0	QPSK	1	0	24.6	22.7	38.45	-15.8
				1	24	24.4	22.5	38.45	-15.9
				1	49	24.4	22.5	38.45	-16.0
				25	0	24.5	22.6	38.45	-15.8
				25	12	24.6	22.7	38.45	-15.8
				25	24	24.4	22.5	38.45	-16.0
				50	0	24.5	22.6	38.45	-15.9
			16QAM	1	0	23.7	21.8	38.45	-16.6
				1	24	23.7	21.8	38.45	-16.6
				1	49	23.7	21.8	38.45	-16.7
				25	0	23.7	21.8	38.45	-16.7
				25	12	23.7	21.8	38.45	-16.6
				25	24	23.7	21.8	38.45	-16.6
				50	0	22.8	20.9	38.45	-17.6
10.0	20525	836.5	QPSK	1	0	24.4	22.5	38.45	-16.0
				1	24	24.4	22.4	38.45	-16.0
				1	49	24.4	22.4	38.45	-16.0
				25	0	24.4	22.5	38.45	-16.0
				25	12	24.4	22.5	38.45	-16.0
				25	24	24.4	22.5	38.45	-15.9
				50	0	24.4	22.5	38.45	-16.0
			16QAM	1	0	24.0	22.1	38.45	-16.3
				1	24	24.0	22.1	38.45	-16.4
				1	49	23.9	22.0	38.45	-16.4
				25	0	23.7	21.8	38.45	-16.7
				25	12	23.8	21.9	38.45	-16.5
				25	24	23.7	21.8	38.45	-16.6
				50	0	22.5	20.5	38.45	-17.9
10.0	20600	844.0	QPSK	1	0	24.3	22.4	38.45	-16.1
				1	24	24.4	22.4	38.45	-16.0
				1	49	24.3	22.4	38.45	-16.1
				25	0	24.4	22.5	38.45	-15.9
				25	12	24.4	22.5	38.45	-15.9
				25	24	24.5	22.6	38.45	-15.9
				50	0	24.4	22.5	38.45	-16.0
			16QAM	1	0	23.6	21.7	38.45	-16.8
				1	24	23.6	21.7	38.45	-16.7
				1	49	23.6	21.7	38.45	-16.8
				25	0	23.8	21.9	38.45	-16.6
				25	12	23.8	21.9	38.45	-16.6
				25	24	23.8	21.9	38.45	-16.6
				50	0	22.7	20.8	38.45	-17.7

7.1.4. LTE BAND 7

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 7 (5.0 MHZ)

Antenna Gain (dBi)		0.12							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	20775	2502.5	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	12	24.7	24.8	33.0	-8.2
				1	24	24.6	24.7	33.0	-8.3
				12	0	24.6	24.8	33.0	-8.2
				12	6	24.7	24.8	33.0	-8.2
				12	11	24.6	24.8	33.0	-8.2
				25	0	24.6	24.7	33.0	-8.3
			16QAM	1	0	24.1	24.2	33.0	-8.8
				1	12	24.0	24.1	33.0	-8.9
				1	24	24.0	24.1	33.0	-8.9
				12	0	23.0	23.1	33.0	-9.9
				12	6	23.0	23.2	33.0	-9.9
				12	11	22.9	23.0	33.0	-10.0
				25	0	22.8	23.0	33.0	-10.0
5.0	21100	2535.0	QPSK	1	0	24.7	24.8	33.0	-8.2
				1	12	24.7	24.8	33.0	-8.2
				1	24	24.6	24.8	33.0	-8.3
				12	0	24.7	24.8	33.0	-8.2
				12	6	24.7	24.8	33.0	-8.2
				12	11	24.6	24.7	33.0	-8.3
				25	0	24.6	24.7	33.0	-8.3
			16QAM	1	0	24.4	24.5	33.0	-8.5
				1	12	24.4	24.5	33.0	-8.5
				1	24	24.4	24.5	33.0	-8.5
				12	0	23.1	23.2	33.0	-9.8
				12	6	23.0	23.1	33.0	-9.9
				12	11	23.0	23.1	33.0	-9.9
				25	0	22.9	23.0	33.0	-10.0
5.0	21425	2567.5	QPSK	1	0	24.9	25.0	33.0	-8.0
				1	12	24.7	24.9	33.0	-8.1
				1	24	24.8	24.9	33.0	-8.1
				12	0	24.8	24.9	33.0	-8.1
				12	6	24.8	24.9	33.0	-8.1
				12	11	24.8	24.9	33.0	-8.1
				25	0	24.7	24.9	33.0	-8.1
			16QAM	1	0	24.1	24.3	33.0	-8.8
				1	12	24.1	24.2	33.0	-8.8
				1	24	24.1	24.2	33.0	-8.8
				12	0	23.0	23.1	33.0	-9.9
				12	6	23.0	23.2	33.0	-9.9
				12	11	23.0	23.1	33.0	-9.9
				25	0	22.9	23.1	33.0	-10.0

OUTPUT POWER FOR LTE BAND 7 (10.0 MHZ)

Antenna Gain (dBi)		0.12							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	20800	2505.0	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	24	24.6	24.7	33.0	-8.3
				1	49	24.6	24.7	33.0	-8.3
				25	0	24.7	24.8	33.0	-8.2
				25	12	24.7	24.8	33.0	-8.2
				25	24	24.6	24.7	33.0	-8.3
				50	0	24.7	24.8	33.0	-8.2
			16QAM	1	0	24.3	24.5	33.0	-8.5
				1	24	24.2	24.4	33.0	-8.7
				1	49	24.2	24.3	33.0	-8.7
				25	0	23.0	23.1	33.0	-9.9
				25	12	22.9	23.1	33.0	-9.9
				25	24	22.9	23.0	33.0	-10.0
				50	0	22.9	23.0	33.0	-10.0
10.0	21100	2535.0	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	24	24.6	24.8	33.0	-8.2
				1	49	24.6	24.7	33.0	-8.3
				25	0	24.7	24.8	33.0	-8.2
				25	12	24.7	24.8	33.0	-8.2
				25	24	24.6	24.7	33.0	-8.3
				50	0	24.7	24.8	33.0	-8.2
			16QAM	1	0	23.9	24.1	33.0	-8.9
				1	24	23.8	24.0	33.0	-9.0
				1	49	23.7	23.8	33.0	-9.2
				25	0	22.9	23.1	33.0	-10.0
				25	12	23.0	23.1	33.0	-9.9
				25	24	22.9	23.0	33.0	-10.0
				50	0	22.9	23.0	33.0	-10.0
10.0	21400	2565.0	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	24	24.7	24.8	33.0	-8.2
				1	49	24.7	24.8	33.0	-8.2
				25	0	24.7	24.9	33.0	-8.2
				25	12	24.8	24.9	33.0	-8.1
				25	24	24.7	24.8	33.0	-8.2
				50	0	24.8	24.9	33.0	-8.1
			16QAM	1	0	24.0	24.1	33.0	-8.9
				1	24	23.9	24.0	33.0	-9.0
				1	49	23.8	23.9	33.0	-9.1
				25	0	23.0	23.1	33.0	-9.9
				25	12	23.0	23.1	33.0	-9.9
				25	24	22.9	23.0	33.0	-10.0
				50	0	22.9	23.1	33.0	-10.0

OUTPUT POWER FOR LTE BAND 7 (15.0 MHZ)

Antenna Gain (dBi)		0.12							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	20825	2507.5	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	37	24.3	24.4	33.0	-8.6
				1	74	24.4	24.5	33.0	-8.5
				36	0	24.8	24.9	33.0	-8.1
				36	16	24.7	24.8	33.0	-8.2
				36	35	24.6	24.7	33.0	-8.3
				75	0	24.7	24.8	33.0	-8.2
			16-QAM	1	0	24.3	24.4	33.0	-8.6
				1	37	24.2	24.4	33.0	-8.7
				1	74	24.0	24.1	33.0	-8.9
				36	0	23.0	23.1	33.0	-9.9
				36	16	22.9	23.1	33.0	-10.0
				36	35	22.9	23.0	33.0	-10.0
				75	0	22.9	23.0	33.0	-10.0
15.0	21100	2535.0	QPSK	1	0	24.6	24.8	33.0	-8.2
				1	37	24.4	24.5	33.0	-8.5
				1	74	24.3	24.4	33.0	-8.6
				36	0	24.7	24.8	33.0	-8.2
				36	16	24.6	24.7	33.0	-8.3
				36	35	24.5	24.6	33.0	-8.4
				75	0	24.6	24.7	33.0	-8.3
			16-QAM	1	0	24.2	24.3	33.0	-8.7
				1	37	24.1	24.2	33.0	-8.8
				1	74	23.8	23.9	33.0	-9.1
				36	0	22.8	22.9	33.0	-10.1
				36	16	22.8	22.9	33.0	-10.1
				36	35	22.7	22.8	33.0	-10.2
				75	0	22.8	22.9	33.0	-10.1
15.0	21375	2562.5	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	37	24.5	24.6	33.0	-8.4
				1	74	24.6	24.7	33.0	-8.3
				36	0	24.7	24.8	33.0	-8.2
				36	16	24.7	24.9	33.0	-8.1
				36	35	24.6	24.8	33.0	-8.3
				75	0	24.7	24.8	33.0	-8.2
			16-QAM	1	0	23.8	23.9	33.0	-9.1
				1	37	23.7	23.8	33.0	-9.2
				1	74	23.5	23.7	33.0	-9.4
				36	0	23.0	23.1	33.0	-9.9
				36	16	22.9	23.0	33.0	-10.0
				36	35	22.8	22.9	33.0	-10.1
				75	0	22.8	23.0	33.0	-10.1

OUTPUT POWER FOR LTE BAND 7 (20.0 MHZ)

Antenna Gain (dBi)		0.12							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	20850	2510.0	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	49	24.7	24.8	33.0	-8.2
				1	99	24.4	24.5	33.0	-8.5
				50	0	24.8	24.9	33.0	-8.1
				50	24	24.7	24.8	33.0	-8.2
				50	49	24.6	24.7	33.0	-8.3
				100	0	24.7	24.8	33.0	-8.2
			16-QAM	1	0	24.4	24.6	33.0	-8.4
				1	49	24.3	24.4	33.0	-8.6
				1	99	24.0	24.1	33.0	-8.9
				50	0	23.0	23.1	33.0	-9.9
				50	24	22.9	23.1	33.0	-10.0
				50	49	22.8	22.9	33.0	-10.1
				100	0	22.9	23.0	33.0	-10.0
20.0	21100	2535.0	QPSK	1	0	24.8	24.9	33.0	-8.1
				1	49	24.6	24.7	33.0	-8.3
				1	99	24.3	24.4	33.0	-8.6
				50	0	24.7	24.8	33.0	-8.2
				50	24	24.6	24.8	33.0	-8.2
				50	49	24.5	24.6	33.0	-8.4
				100	0	24.6	24.7	33.0	-8.3
			16-QAM	1	0	24.4	24.5	33.0	-8.5
				1	49	24.2	24.3	33.0	-8.7
				1	99	23.9	24.0	33.0	-9.0
				50	0	22.8	23.0	33.0	-10.0
				50	24	22.8	22.9	33.0	-10.1
				50	49	22.6	22.8	33.0	-10.3
				100	0	22.8	22.9	33.0	-10.1
20.0	21350	2560.0	QPSK	1	0	24.9	25.0	33.0	-8.0
				1	49	24.7	24.8	33.0	-8.2
				1	99	24.5	24.6	33.0	-8.4
				50	0	24.8	24.9	33.0	-8.1
				50	24	24.7	24.8	33.0	-8.2
				50	49	24.6	24.7	33.0	-8.3
				100	0	24.7	24.8	33.0	-8.2
			16-QAM	1	0	24.5	24.7	33.0	-8.4
				1	49	24.5	24.6	33.0	-8.4
				1	99	24.2	24.4	33.0	-8.6
				50	0	23.0	23.1	33.0	-9.9
				50	24	22.9	23.0	33.0	-10.0
				50	49	22.8	22.9	33.0	-10.1
				100	0	22.9	23.0	33.0	-10.0

7.1.5. LTE BAND 12

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 12 (1.4MHZz)

Antenna Gain (dBi)	2.16								
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	24.3	24.3	34.77	-10.5
				1	2	24.3	24.3	34.77	-10.4
				1	5	24.3	24.3	34.77	-10.5
				3	0	24.4	24.4	34.77	-10.4
				3	1	24.4	24.4	34.77	-10.4
				3	2	24.4	24.4	34.77	-10.3
			16QAM	6	0	24.3	24.3	34.77	-10.4
				1	0	23.6	23.6	34.77	-11.1
				1	2	23.7	23.7	34.77	-11.1
				1	5	23.6	23.6	34.77	-11.2
				3	0	23.7	23.7	34.77	-11.1
				3	1	23.7	23.7	34.77	-11.1
				3	2	23.7	23.7	34.77	-11.1
				6	0	22.7	22.7	34.77	-12.1
1.4	23095	707.5	QPSK	1	0	24.3	24.4	34.77	-10.4
				1	2	24.4	24.4	34.77	-10.4
				1	5	24.3	24.3	34.77	-10.4
				3	0	24.4	24.5	34.77	-10.3
				3	1	24.5	24.5	34.77	-10.3
				3	2	24.4	24.4	34.77	-10.4
			16QAM	6	0	24.4	24.4	34.77	-10.3
				1	0	24.0	24.0	34.77	-10.7
				1	2	23.9	23.9	34.77	-10.8
				1	5	23.9	23.9	34.77	-10.9
				3	0	23.8	23.8	34.77	-11.0
				3	1	23.9	23.9	34.77	-10.9
				3	2	23.8	23.8	34.77	-11.0
				6	0	22.5	22.5	34.77	-12.2
1.4	23173	715.3	QPSK	1	0	24.6	24.6	34.77	-10.2
				1	2	24.4	24.4	34.77	-10.4
				1	5	24.3	24.3	34.77	-10.5
				3	0	24.5	24.5	34.77	-10.3
				3	1	24.5	24.5	34.77	-10.3
				3	2	24.3	24.3	34.77	-10.5
			16QAM	6	0	24.4	24.4	34.77	-10.4
				1	0	23.6	23.6	34.77	-11.2
				1	2	23.6	23.6	34.77	-11.1
				1	5	23.6	23.6	34.77	-11.2
				3	0	23.7	23.8	34.77	-11.0
				3	1	23.8	23.8	34.77	-11.0
				3	2	23.8	23.8	34.77	-11.0
				6	0	22.7	22.7	34.77	-12.1

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Antenna Gain (dBi)		2.16							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	23025	700.5	QPSK	1	0	24.4	24.4	34.77	-10.3
				1	7	24.4	24.4	34.77	-10.3
				1	14	24.3	24.3	34.77	-10.5
				8	0	24.4	24.4	34.77	-10.4
				8	4	24.3	24.4	34.77	-10.4
				8	7	24.3	24.3	34.77	-10.4
				15	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.6	23.6	34.77	-11.2
				1	7	23.7	23.7	34.77	-11.1
				1	14	23.5	23.6	34.77	-11.2
				8	0	22.6	22.6	34.77	-12.2
				8	4	22.6	22.6	34.77	-12.2
				8	7	22.6	22.6	34.77	-12.2
				15	0	22.5	22.5	34.77	-12.3
3.0	23095	707.5	QPSK	1	0	24.4	24.4	34.77	-10.4
				1	7	24.4	24.4	34.77	-10.4
				1	14	24.3	24.4	34.77	-10.4
				8	0	24.4	24.4	34.77	-10.4
				8	4	24.3	24.3	34.77	-10.4
				8	7	24.4	24.4	34.77	-10.4
				15	0	24.4	24.4	34.77	-10.3
			16QAM	1	0	23.5	23.5	34.77	-11.3
				1	7	23.6	23.6	34.77	-11.2
				1	14	23.6	23.6	34.77	-11.2
				8	0	22.6	22.6	34.77	-12.1
				8	4	22.6	22.6	34.77	-12.1
				8	7	22.6	22.7	34.77	-12.1
				15	0	22.7	22.7	34.77	-12.1
3.0	23165	714.5	QPSK	1	0	24.6	24.6	34.77	-10.2
				1	7	24.4	24.4	34.77	-10.3
				1	14	24.4	24.4	34.77	-10.4
				8	0	24.4	24.4	34.77	-10.4
				8	4	24.4	24.4	34.77	-10.4
				8	7	24.3	24.3	34.77	-10.5
				15	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	24.1	24.1	34.77	-10.7
				1	7	24.0	24.0	34.77	-10.8
				1	14	23.9	23.9	34.77	-10.9
				8	0	22.6	22.6	34.77	-12.2
				8	4	22.6	22.6	34.77	-12.1
				8	7	22.6	22.6	34.77	-12.2
				15	0	22.6	22.6	34.77	-12.2

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Antenna Gain (dBi)		2.16							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	23035	701.5	QPSK	1	0	24.5	24.5	34.77	-10.3
				1	12	24.4	24.4	34.77	-10.4
				1	24	24.4	24.4	34.77	-10.4
				12	0	24.4	24.4	34.77	-10.4
				12	6	24.4	24.4	34.77	-10.4
				12	11	24.3	24.3	34.77	-10.5
				25	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.8	23.8	34.77	-11.0
				1	12	23.7	23.7	34.77	-11.1
				1	24	23.7	23.7	34.77	-11.1
				12	0	22.6	22.6	34.77	-12.1
				12	6	22.8	22.8	34.77	-12.0
				12	11	22.6	22.6	34.77	-12.2
				25	0	22.6	22.6	34.77	-12.2
5.0	23095	707.5	QPSK	1	0	24.4	24.4	34.77	-10.4
				1	12	24.4	24.4	34.77	-10.4
				1	24	24.5	24.5	34.77	-10.3
				12	0	24.4	24.4	34.77	-10.4
				12	6	24.4	24.4	34.77	-10.3
				12	11	24.4	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.7	23.7	34.77	-11.1
				1	12	23.7	23.7	34.77	-11.1
				1	24	23.8	23.8	34.77	-11.0
				12	0	22.7	22.7	34.77	-12.1
				12	6	22.8	22.8	34.77	-12.0
				12	11	22.7	22.7	34.77	-12.1
				25	0	22.6	22.6	34.77	-12.2
5.0	23155	713.5	QPSK	1	0	24.5	24.5	34.77	-10.3
				1	12	24.3	24.3	34.77	-10.4
				1	24	24.4	24.4	34.77	-10.4
				12	0	24.4	24.4	34.77	-10.4
				12	6	24.4	24.4	34.77	-10.3
				12	11	24.4	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	24.2	24.2	34.77	-10.6
				1	12	24.2	24.2	34.77	-10.6
				1	24	24.2	24.2	34.77	-10.6
				12	0	22.7	22.7	34.77	-12.0
				12	6	22.7	22.7	34.77	-12.0
				12	11	22.7	22.7	34.77	-12.1
				25	0	22.6	22.6	34.77	-12.2

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Antenna Gain (dBi)		2.16							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	23060	704.0	QPSK	1	0	24.3	24.3	34.77	-10.5
				1	24	24.2	24.2	34.77	-10.5
				1	49	24.3	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
				25	12	24.4	24.4	34.77	-10.4
				25	24	24.4	24.4	34.77	-10.4
				50	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.5	23.5	34.77	-11.3
				1	24	23.5	23.5	34.77	-11.3
				1	49	23.4	23.4	34.77	-11.4
				25	0	22.5	22.5	34.77	-12.2
				25	12	22.5	22.5	34.77	-12.2
				25	24	22.6	22.6	34.77	-12.2
				50	0	22.5	22.5	34.77	-12.3
10.0	23095	707.5	QPSK	1	0	24.3	24.3	34.77	-10.5
				1	24	24.4	24.4	34.77	-10.4
				1	49	24.3	24.3	34.77	-10.5
				25	0	24.3	24.3	34.77	-10.4
				25	12	24.4	24.5	34.77	-10.3
				25	24	24.4	24.4	34.77	-10.4
				50	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.5	23.5	34.77	-11.3
				1	24	23.6	23.6	34.77	-11.2
				1	49	23.5	23.5	34.77	-11.3
				25	0	22.7	22.7	34.77	-12.1
				25	12	22.6	22.6	34.77	-12.2
				25	24	22.7	22.7	34.77	-12.1
				50	0	22.6	22.6	34.77	-12.1
10.0	23130	711.0	QPSK	1	0	24.9	24.9	34.77	-9.9
				1	24	24.4	24.4	34.77	-10.4
				1	49	24.3	24.3	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
				25	12	24.5	24.5	34.77	-10.3
				25	24	24.4	24.4	34.77	-10.4
				50	0	24.5	24.5	34.77	-10.3
			16QAM	1	0	23.9	24.0	34.77	-10.8
				1	24	23.9	23.9	34.77	-10.8
				1	49	23.7	23.7	34.77	-11.0
				25	0	23.0	23.0	34.77	-11.8
				25	12	22.6	22.6	34.77	-12.1
				25	24	22.6	22.6	34.77	-12.1
				50	0	22.6	22.6	34.77	-12.1

7.1.6. LTE BAND 13

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Antenna Gain (dBi)		-0.04							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	23207	779.5	QPSK	1	0	24.5	22.3	34.77	-12.5
				1	12	24.2	22.0	34.77	-12.8
				1	24	24.0	21.8	34.77	-13.0
				12	0	23.8	21.6	34.77	-13.2
				12	6	24.0	21.8	34.77	-13.0
				12	11	24.0	21.8	34.77	-13.0
				25	0	23.9	21.7	34.77	-13.1
			16QAM	1	0	22.3	20.2	34.77	-14.6
				1	12	23.2	21.0	34.77	-13.8
				1	24	23.3	21.2	34.77	-13.6
				12	0	22.0	19.8	34.77	-14.9
				12	6	22.3	20.1	34.77	-14.7
				12	11	22.3	20.1	34.77	-14.7
				25	0	22.2	20.0	34.77	-14.8
5.0	23230	782.0	QPSK	1	0	24.5	22.3	34.77	-12.5
				1	12	24.4	22.3	34.77	-12.5
				1	24	24.4	22.2	34.77	-12.5
				12	0	24.0	21.8	34.77	-13.0
				12	6	24.0	21.8	34.77	-13.0
				12	11	24.0	21.8	34.77	-13.0
				25	0	23.9	21.8	34.77	-13.0
			16QAM	1	0	23.3	21.1	34.77	-13.7
				1	12	23.2	21.0	34.77	-13.7
				1	24	23.2	21.0	34.77	-13.8
				12	0	22.3	20.1	34.77	-14.7
				12	6	22.2	20.0	34.77	-14.8
				12	11	22.2	20.0	34.77	-14.8
				25	0	22.2	20.0	34.77	-14.8
5.0	23255	784.5	QPSK	1	0	24.5	22.3	34.77	-12.5
				1	12	24.4	22.3	34.77	-12.5
				1	24	24.5	22.3	34.77	-12.5
				12	0	24.0	21.8	34.77	-13.0
				12	6	24.0	21.8	34.77	-13.0
				12	11	23.9	21.7	34.77	-13.1
				25	0	24.0	21.8	34.77	-13.0
			16QAM	1	0	23.7	21.5	34.77	-13.3
				1	12	23.7	21.5	34.77	-13.3
				1	24	23.7	21.5	34.77	-13.3
				12	0	22.3	20.2	34.77	-14.6
				12	6	22.4	20.2	34.77	-14.6
				12	11	22.3	20.1	34.77	-14.7
				25	0	22.3	20.1	34.77	-14.7

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Antenna Gain (dBi)		-0.04							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	23230	782.0	QPSK	1	0	24.5	22.3	34.77	-12.5
				1	24	24.3	22.2	34.77	-12.6
				1	49	24.2	22.0	34.77	-12.7
				25	0	24.0	21.8	34.77	-13.0
				25	12	24.0	21.8	34.77	-13.0
				25	24	23.9	21.8	34.77	-13.0
				50	0	24.0	21.8	34.77	-12.9
			16QAM	1	0	23.8	21.6	34.77	-13.2
				1	24	23.2	21.0	34.77	-13.8
				1	49	23.5	21.3	34.77	-13.5
				25	0	23.0	20.8	34.77	-14.0
				25	12	22.9	20.8	34.77	-14.0
				25	24	22.9	20.7	34.77	-14.1
				50	0	23.1	20.9	34.77	-13.9

7.1.7. LTE BAND 17

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Antenna Gain (dBi)	2.16								
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	23755	706.5	QPSK	1	0	24.5	24.5	34.77	-10.3
				1	12	24.5	24.5	34.77	-10.3
				1	24	24.5	24.5	34.77	-10.3
				12	0	24.4	24.5	34.77	-10.3
				12	6	24.4	24.4	34.77	-10.4
				12	11	24.4	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.3
			16QAM	1	0	23.8	23.8	34.77	-11.0
				1	12	23.7	23.7	34.77	-11.1
				1	24	23.7	23.7	34.77	-11.1
				12	0	22.7	22.7	34.77	-12.0
				12	6	22.7	22.7	34.77	-12.1
				12	11	22.8	22.8	34.77	-12.0
				25	0	22.8	22.8	34.77	-12.0
5.0	23790	710.0	QPSK	1	0	24.4	24.5	34.77	-10.3
				1	12	24.4	24.4	34.77	-10.3
				1	24	24.5	24.5	34.77	-10.3
				12	0	24.4	24.4	34.77	-10.4
				12	6	24.4	24.4	34.77	-10.3
				12	11	24.4	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.7	23.7	34.77	-11.1
				1	12	23.7	23.7	34.77	-11.1
				1	24	23.7	23.7	34.77	-11.1
				12	0	22.7	22.7	34.77	-12.1
				12	6	22.6	22.6	34.77	-12.2
				12	11	22.6	22.6	34.77	-12.2
				25	0	22.6	22.6	34.77	-12.2
5.0	23825	713.5	QPSK	1	0	24.4	24.4	34.77	-10.4
				1	12	24.4	24.4	34.77	-10.4
				1	24	24.4	24.4	34.77	-10.4
				12	0	24.4	24.4	34.77	-10.4
				12	6	24.4	24.4	34.77	-10.4
				12	11	24.4	24.4	34.77	-10.4
				25	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	24.2	24.2	34.77	-10.6
				1	12	24.1	24.1	34.77	-10.7
				1	24	24.1	24.1	34.77	-10.6
				12	0	22.8	22.8	34.77	-12.0
				12	6	22.7	22.8	34.77	-12.0
				12	11	22.7	22.7	34.77	-12.0
				25	0	22.7	22.7	34.77	-12.1

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Antenna Gain (dBi)		2.16							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	23780	709.0	QPSK	1	0	24.4	24.4	34.77	-10.4
				1	24	24.3	24.3	34.77	-10.4
				1	49	24.3	24.3	34.77	-10.5
				25	0	24.5	24.5	34.77	-10.3
				25	12	24.4	24.4	34.77	-10.4
				25	24	24.4	24.5	34.77	-10.3
				50	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.8	23.8	34.77	-11.0
				1	24	23.8	23.8	34.77	-11.0
				1	49	23.7	23.8	34.77	-11.0
				25	0	23.0	23.0	34.77	-11.8
				25	12	22.9	22.9	34.77	-11.9
				25	24	22.9	22.9	34.77	-11.9
				50	0	22.9	22.9	34.77	-11.9
10.0	23790	710.0	QPSK	1	0	24.4	24.4	34.77	-10.3
				1	24	24.3	24.3	34.77	-10.5
				1	49	24.3	24.3	34.77	-10.5
				25	0	24.4	24.4	34.77	-10.4
				25	12	24.5	24.5	34.77	-10.3
				25	24	24.4	24.4	34.77	-10.4
				50	0	24.4	24.4	34.77	-10.4
			16QAM	1	0	23.9	23.9	34.77	-10.9
				1	24	23.8	23.8	34.77	-11.0
				1	49	23.8	23.8	34.77	-11.0
				25	0	23.9	23.9	34.77	-10.8
				25	12	23.9	24.0	34.77	-10.8
				25	24	23.9	23.9	34.77	-10.9
				50	0	23.9	23.9	34.77	-10.8
10.0	23800	711.0	QPSK	1	0	24.5	24.5	34.77	-10.2
				1	24	24.4	24.4	34.77	-10.4
				1	49	24.3	24.3	34.77	-10.4
				25	0	24.5	24.5	34.77	-10.3
				25	12	24.4	24.4	34.77	-10.3
				25	24	24.4	24.4	34.77	-10.4
				50	0	24.4	24.4	34.77	-10.3
			16QAM	1	0	24.3	24.3	34.77	-10.5
				1	24	24.2	24.2	34.77	-10.6
				1	49	24.2	24.2	34.77	-10.6
				25	0	23.1	23.1	34.77	-11.6
				25	12	23.0	23.0	34.77	-11.7
				25	24	23.0	23.0	34.77	-11.8
				50	0	23.0	23.0	34.77	-11.8

7.1.8. LTE BAND 25

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 25 (1.4MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26047	1850.7	QPSK	1	0	24.7	26.1	33.0	-6.9
				1	2	24.5	26.0	33.0	-7.0
				1	5	24.5	25.9	33.0	-7.1
				3	0	24.6	26.1	33.0	-6.9
				3	1	24.6	26.1	33.0	-6.9
				3	2	24.5	25.9	33.0	-7.1
			16QAM	6	0	24.1	25.6	33.0	-7.5
				1	0	23.3	24.8	33.0	-8.2
				1	2	23.4	24.9	33.0	-8.1
				1	5	23.5	25.0	33.0	-8.0
				3	0	23.2	24.7	33.0	-8.3
				3	1	23.3	24.8	33.0	-8.2
				3	2	23.4	24.9	33.0	-8.1
				6	0	22.5	23.9	33.0	-9.1
1.4	26365	1882.5	QPSK	1	0	24.4	25.9	33.0	-7.1
				1	2	24.5	25.9	33.0	-7.1
				1	5	24.4	25.9	33.0	-7.1
				3	0	24.5	26.0	33.0	-7.1
				3	1	24.5	26.0	33.0	-7.0
				3	2	24.5	26.0	33.0	-7.0
			16QAM	6	0	24.4	25.9	33.0	-7.1
				1	0	24.1	25.5	33.0	-7.5
				1	2	24.0	25.5	33.0	-7.5
				1	5	23.9	25.4	33.0	-7.6
				3	0	23.8	25.3	33.0	-7.7
				3	1	23.8	25.3	33.0	-7.7
				3	2	23.8	25.3	33.0	-7.7
				6	0	22.6	24.0	33.0	-9.0
1.4	26683	1914.3	QPSK	1	0	24.4	25.9	33.0	-7.2
				1	2	24.5	25.9	33.0	-7.1
				1	5	24.4	25.9	33.0	-7.2
				3	0	24.6	26.0	33.0	-7.0
				3	1	24.6	26.1	33.0	-6.9
				3	2	24.5	26.0	33.0	-7.0
			16QAM	6	0	23.9	25.3	33.0	-7.7
				1	0	23.1	24.6	33.0	-8.4
				1	2	23.1	24.6	33.0	-8.4
				1	5	23.0	24.4	33.0	-8.6
				3	0	23.2	24.7	33.0	-8.3
				3	1	23.3	24.7	33.0	-8.3
				3	2	23.2	24.7	33.0	-8.3
				6	0	22.3	23.8	33.0	-9.2

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3.0	26055	1851.5	QPSK	1	0	24.7	26.2	33.0	-6.9
				1	7	24.6	26.1	33.0	-6.9
				1	14	24.6	26.0	33.0	-7.0
				8	0	24.2	25.7	33.0	-7.4
				8	4	24.3	25.8	33.0	-7.2
				8	7	24.3	25.8	33.0	-7.2
				15	0	24.3	25.8	33.0	-7.2
			16QAM	1	0	24.1	25.5	33.0	-7.5
				1	7	23.9	25.4	33.0	-7.6
				1	14	23.6	25.1	33.0	-7.9
				8	0	22.3	23.8	33.0	-9.2
				8	4	22.4	23.9	33.0	-9.1
				8	7	22.4	23.9	33.0	-9.1
				15	0	22.6	24.0	33.0	-9.0
3.0	26365	1882.5	QPSK	1	0	24.6	26.0	33.0	-7.0
				1	7	24.5	26.0	33.0	-7.0
				1	14	24.4	25.9	33.0	-7.1
				8	0	24.5	26.0	33.0	-7.0
				8	4	24.5	26.0	33.0	-7.0
				8	7	24.5	26.0	33.0	-7.0
				15	0	24.5	25.9	33.0	-7.1
			16QAM	1	0	23.8	25.3	33.0	-7.7
				1	7	23.8	25.3	33.0	-7.7
				1	14	23.7	25.2	33.0	-7.8
				8	0	23.0	24.4	33.0	-8.6
				8	4	22.9	24.4	33.0	-8.6
				8	7	22.9	24.4	33.0	-8.6
				15	0	22.6	24.1	33.0	-8.9
3.0	26675	1913.5	QPSK	1	0	24.5	25.9	33.0	-7.1
				1	7	24.5	26.0	33.0	-7.0
				1	14	24.4	25.9	33.0	-7.1
				8	0	24.1	25.6	33.0	-7.4
				8	4	24.1	25.6	33.0	-7.4
				8	7	24.0	25.5	33.0	-7.5
				15	0	24.0	25.5	33.0	-7.5
			16QAM	1	0	23.2	24.7	33.0	-8.3
				1	7	23.1	24.6	33.0	-8.4
				1	14	22.8	24.3	33.0	-8.7
				8	0	22.4	23.9	33.0	-9.1
				8	4	22.5	23.9	33.0	-9.1
				8	7	22.4	23.9	33.0	-9.1
				15	0	22.3	23.8	33.0	-9.2

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	26065	1852.5	QPSK	1	0	24.7	26.2	33.0	-6.9
				1	12	24.6	26.1	33.0	-6.9
				1	24	24.6	26.1	33.0	-6.9
				12	0	24.3	25.8	33.0	-7.2
				12	6	24.5	26.0	33.0	-7.1
				12	11	24.6	26.0	33.0	-7.0
				25	0	24.4	25.9	33.0	-7.1
			16QAM	1	0	23.7	25.2	33.0	-7.8
				1	12	24.2	25.6	33.0	-7.4
				1	24	24.4	25.8	33.0	-7.2
				12	0	22.6	24.1	33.0	-8.9
				12	6	22.8	24.3	33.0	-8.7
				12	11	22.9	24.4	33.0	-8.6
				25	0	22.7	24.2	33.0	-8.8
5.0	26365	1882.5	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	12	24.5	26.0	33.0	-7.0
				1	24	24.5	26.0	33.0	-7.0
				12	0	24.6	26.0	33.0	-7.0
				12	6	24.5	26.0	33.0	-7.0
				12	11	24.6	26.0	33.0	-7.0
				25	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	23.8	25.3	33.0	-7.7
				1	12	23.8	25.2	33.0	-7.8
				1	24	23.8	25.2	33.0	-7.8
				12	0	22.8	24.3	33.0	-8.7
				12	6	22.8	24.3	33.0	-8.7
				12	11	22.8	24.3	33.0	-8.7
				25	0	22.7	24.2	33.0	-8.8
5.0	26665	1912.5	QPSK	1	0	24.5	25.9	33.0	-7.1
				1	12	24.5	26.0	33.0	-7.0
				1	24	24.5	25.9	33.0	-7.1
				12	0	24.2	25.6	33.0	-7.4
				12	6	24.2	25.6	33.0	-7.4
				12	11	24.1	25.5	33.0	-7.5
				25	0	24.1	25.6	33.0	-7.4
			16QAM	1	0	23.6	25.0	33.0	-8.0
				1	12	23.4	24.9	33.0	-8.1
				1	24	23.1	24.6	33.0	-8.4
				12	0	22.5	24.0	33.0	-9.0
				12	6	22.5	23.9	33.0	-9.1
				12	11	22.4	23.9	33.0	-9.2
				25	0	22.4	23.9	33.0	-9.1

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	26090	1855.0	QPSK	1	0	24.7	26.1	33.0	-6.9
				1	24	24.6	26.1	33.0	-7.0
				1	49	24.5	25.9	33.0	-7.1
				25	0	24.5	25.9	33.0	-7.1
				25	12	24.6	26.1	33.0	-6.9
				25	24	24.5	26.0	33.0	-7.0
				50	0	24.6	26.1	33.0	-6.9
			16QAM	1	0	24.2	25.7	33.0	-7.3
				1	24	23.6	25.0	33.0	-8.0
				1	49	24.0	25.5	33.0	-7.5
				25	0	22.7	24.1	33.0	-8.9
				25	12	22.9	24.3	33.0	-8.7
				25	24	22.8	24.3	33.0	-8.7
				50	0	22.8	24.3	33.0	-8.7
10.0	26365	1882.5	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	24	24.5	26.0	33.0	-7.1
				1	49	24.5	25.9	33.0	-7.1
				25	0	24.6	26.0	33.0	-7.0
				25	12	24.6	26.0	33.0	-7.0
				25	24	24.5	26.0	33.0	-7.0
				50	0	24.5	26.0	33.0	-7.0
			16QAM	1	0	23.7	25.2	33.0	-7.8
				1	24	23.7	25.1	33.0	-7.9
				1	49	23.7	25.1	33.0	-7.9
				25	0	22.8	24.3	33.0	-8.7
				25	12	22.9	24.3	33.0	-8.7
				25	24	22.8	24.2	33.0	-8.8
				50	0	22.7	24.2	33.0	-8.8
10.0	26640	1910.0	QPSK	1	0	24.5	26.0	33.0	-7.0
				1	24	24.4	25.9	33.0	-7.1
				1	49	24.4	25.9	33.0	-7.2
				25	0	24.3	25.8	33.0	-7.2
				25	12	24.3	25.7	33.0	-7.3
				25	24	24.1	25.6	33.0	-7.4
				50	0	24.2	25.7	33.0	-7.3
			16QAM	1	0	23.3	24.8	33.0	-8.2
				1	24	23.4	24.8	33.0	-8.2
				1	49	22.8	24.3	33.0	-8.8
				25	0	22.6	24.0	33.0	-9.0
				25	12	22.5	24.0	33.0	-9.0
				25	24	22.4	23.9	33.0	-9.1
				50	0	22.5	24.0	33.0	-9.0

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	26115	1857.5	QPSK	1	0	24.6	26.1	33.0	-7.0
				1	37	24.3	25.8	33.0	-7.2
				1	74	24.3	25.7	33.0	-7.3
				36	0	24.6	26.0	33.0	-7.0
				36	16	24.4	25.9	33.0	-7.1
				36	35	24.5	26.0	33.0	-7.0
				75	0	24.5	26.0	33.0	-7.0
			16-QAM	1	0	24.2	25.6	33.0	-7.4
				1	37	23.9	25.4	33.0	-7.6
				1	74	23.8	25.3	33.0	-7.7
				36	0	22.8	24.3	33.0	-8.7
				36	16	22.9	24.3	33.0	-8.7
				36	35	22.8	24.3	33.0	-8.7
				75	0	22.8	24.3	33.0	-8.8
15.0	26365	1882.5	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	37	24.4	25.9	33.0	-7.1
				1	74	24.3	25.7	33.0	-7.3
				36	0	24.5	26.0	33.0	-7.0
				36	16	24.5	26.0	33.0	-7.0
				36	35	24.5	26.0	33.0	-7.0
				75	0	24.5	25.9	33.0	-7.1
			16-QAM	1	0	23.9	25.4	33.0	-7.6
				1	37	24.1	25.6	33.0	-7.4
				1	74	23.9	25.4	33.0	-7.6
				36	0	22.7	24.1	33.0	-8.9
				36	16	22.7	24.2	33.0	-8.8
				36	35	22.7	24.2	33.0	-8.8
				75	0	22.7	24.1	33.0	-8.9
15.0	26615	1907.5	QPSK	1	0	24.2	25.7	33.0	-7.3
				1	37	24.3	25.7	33.0	-7.3
				1	74	24.2	25.6	33.0	-7.4
				36	0	24.5	25.9	33.0	-7.1
				36	16	24.5	25.9	33.0	-7.1
				36	35	24.3	25.8	33.0	-7.2
				75	0	24.4	25.9	33.0	-7.1
			16-QAM	1	0	23.2	24.7	33.0	-8.3
				1	37	23.4	24.9	33.0	-8.1
				1	74	23.1	24.6	33.0	-8.4
				36	0	22.6	24.0	33.0	-9.0
				36	16	22.7	24.2	33.0	-8.8
				36	35	22.6	24.1	33.0	-8.9
				75	0	22.7	24.1	33.0	-8.9

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Antenna Gain (dBi)		1.47							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	26140	1860.0	QPSK	1	0	24.6	26.0	33.0	-7.0
				1	49	24.4	25.9	33.0	-7.1
				1	99	24.3	25.8	33.0	-7.2
				50	0	24.5	26.0	33.0	-7.0
				50	24	24.6	26.0	33.0	-7.0
				50	49	24.6	26.0	33.0	-7.0
				100	0	24.5	25.9	33.0	-7.1
			16-QAM	1	0	24.2	25.6	33.0	-7.4
				1	49	24.0	25.5	33.0	-7.5
				1	99	23.8	25.3	33.0	-7.7
				50	0	22.7	24.2	33.0	-8.8
				50	24	22.8	24.3	33.0	-8.7
				50	49	22.7	24.2	33.0	-8.8
				100	0	22.7	24.2	33.0	-8.9
20.0	26365	1882.5	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	49	24.5	26.0	33.0	-7.1
				1	99	24.2	25.7	33.0	-7.4
				50	0	24.5	25.9	33.0	-7.1
				50	24	24.5	26.0	33.0	-7.0
				50	49	24.5	25.9	33.0	-7.1
				100	0	24.4	25.9	33.0	-7.1
			16-QAM	1	0	23.9	25.4	33.0	-7.6
				1	49	24.1	25.6	33.0	-7.4
				1	99	23.8	25.3	33.0	-7.8
				50	0	22.7	24.1	33.0	-8.9
				50	24	22.8	24.2	33.0	-8.8
				50	49	22.7	24.2	33.0	-8.8
				100	0	22.6	24.1	33.0	-8.9
20.0	26590	1905.0	QPSK	1	0	24.3	25.8	33.0	-7.2
				1	49	24.5	25.9	33.0	-7.1
				1	99	24.2	25.6	33.0	-7.4
				50	0	24.5	25.9	33.0	-7.1
				50	24	24.5	26.0	33.0	-7.0
				50	49	24.4	25.9	33.0	-7.2
				100	0	24.4	25.8	33.0	-7.2
			16-QAM	1	0	24.0	25.4	33.0	-7.6
				1	49	24.1	25.6	33.0	-7.4
				1	99	23.8	25.2	33.0	-7.8
				50	0	22.6	24.0	33.0	-9.0
				50	24	22.7	24.2	33.0	-8.8
				50	49	22.6	24.1	33.0	-8.9
				100	0	22.6	24.1	33.0	-8.9

7.1.9. LTE BAND 26

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	24.6	22.7	38.45	-15.7
				1	2	24.4	22.5	38.45	-16.0
				1	5	24.4	22.5	38.45	-16.0
				3	0	24.5	22.6	38.45	-15.9
				3	1	24.5	22.5	38.45	-15.9
				3	2	24.5	22.6	38.45	-15.8
			16QAM	6	0	24.4	22.5	38.45	-15.9
				1	0	24.0	22.1	38.45	-16.4
				1	2	24.1	22.2	38.45	-16.3
				1	5	24.1	22.1	38.45	-16.3
				3	0	24.1	22.1	38.45	-16.3
				3	1	24.1	22.2	38.45	-16.3
				3	2	24.1	22.2	38.45	-16.3
				6	0	23.1	21.2	38.45	-17.3
1.4	26740	819.0	QPSK	1	0	24.3	22.4	38.45	-16.1
				1	2	24.3	22.4	38.45	-16.1
				1	5	24.2	22.3	38.45	-16.1
				3	0	24.3	22.4	38.45	-16.0
				3	1	24.4	22.4	38.45	-16.0
				3	2	24.3	22.4	38.45	-16.0
			16QAM	6	0	24.3	22.4	38.45	-16.1
				1	0	24.1	22.2	38.45	-16.2
				1	2	24.2	22.3	38.45	-16.1
				1	5	24.1	22.2	38.45	-16.2
				3	0	24.0	22.1	38.45	-16.4
				3	1	24.0	22.1	38.45	-16.3
				3	2	24.0	22.1	38.45	-16.3
				6	0	22.7	20.8	38.45	-17.6
1.4	26783	823.3	QPSK	1	0	24.0	22.1	38.45	-16.3
				1	2	24.1	22.2	38.45	-16.2
				1	5	24.0	22.1	38.45	-16.3
				3	0	24.2	22.3	38.45	-16.2
				3	1	24.2	22.3	38.45	-16.1
				3	2	24.2	22.3	38.45	-16.1
			16QAM	6	0	24.1	22.2	38.45	-16.3
				1	0	24.3	22.4	38.45	-16.0
				1	2	24.2	22.3	38.45	-16.2
				1	5	24.1	22.2	38.45	-16.2
				3	0	24.3	22.4	38.45	-16.1
				3	1	24.3	22.4	38.45	-16.0
				3	2	24.1	22.2	38.45	-16.2
				6	0	23.3	21.4	38.45	-17.1

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	26705	815.5	QPSK	1	0	24.6	22.7	38.45	-15.8
				1	7	24.5	22.6	38.45	-15.9
				1	14	24.5	22.6	38.45	-15.9
				8	0	24.5	22.6	38.45	-15.9
				8	4	24.5	22.6	38.45	-15.9
				8	7	24.5	22.6	38.45	-15.8
				15	0	24.5	22.6	38.45	-15.9
			16QAM	1	0	24.0	22.1	38.45	-16.3
				1	7	24.1	22.2	38.45	-16.3
				1	14	24.0	22.1	38.45	-16.4
				8	0	23.2	21.3	38.45	-17.1
				8	4	23.2	21.3	38.45	-17.1
				8	7	23.2	21.3	38.45	-17.1
				15	0	23.0	21.1	38.45	-17.4
3.0	26740	819.0	QPSK	1	0	24.3	22.4	38.45	-16.0
				1	7	24.3	22.4	38.45	-16.0
				1	14	24.2	22.3	38.45	-16.1
				8	0	24.3	22.4	38.45	-16.0
				8	4	24.3	22.4	38.45	-16.0
				8	7	24.3	22.4	38.45	-16.0
				15	0	24.3	22.4	38.45	-16.1
			16QAM	1	0	23.8	21.9	38.45	-16.6
				1	7	23.9	21.9	38.45	-16.5
				1	14	23.7	21.8	38.45	-16.6
				8	0	23.0	21.0	38.45	-17.4
				8	4	22.9	21.0	38.45	-17.4
				8	7	22.9	21.0	38.45	-17.4
				15	0	22.9	20.9	38.45	-17.5
3.0	26775	822.5	QPSK	1	0	24.2	22.3	38.45	-16.2
				1	7	24.2	22.3	38.45	-16.1
				1	14	24.1	22.2	38.45	-16.2
				8	0	24.2	22.3	38.45	-16.1
				8	4	24.2	22.3	38.45	-16.1
				8	7	24.2	22.3	38.45	-16.1
				15	0	24.2	22.3	38.45	-16.1
			16QAM	1	0	24.2	22.3	38.45	-16.2
				1	7	24.1	22.2	38.45	-16.3
				1	14	24.1	22.1	38.45	-16.3
				8	0	22.6	20.7	38.45	-17.7
				8	4	22.6	20.7	38.45	-17.7
				8	7	22.6	20.7	38.45	-17.8
				15	0	22.8	20.9	38.45	-17.6

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	26715	816.5	QPSK	1	0	24.6	22.7	38.45	-15.8
				1	12	24.5	22.6	38.45	-15.8
				1	24	24.6	22.7	38.45	-15.8
				12	0	24.5	22.6	38.45	-15.8
				12	6	24.5	22.6	38.45	-15.9
				12	11	24.5	22.6	38.45	-15.9
				25	0	24.5	22.6	38.45	-15.9
			16QAM	1	0	24.2	22.3	38.45	-16.2
				1	12	24.1	22.2	38.45	-16.3
				1	24	24.1	22.2	38.45	-16.2
				12	0	23.1	21.2	38.45	-17.2
				12	6	23.1	21.2	38.45	-17.3
				12	11	23.1	21.1	38.45	-17.3
				25	0	23.0	21.1	38.45	-17.4
5.0	26740	819.0	QPSK	1	0	24.4	22.5	38.45	-16.0
				1	12	24.4	22.4	38.45	-16.0
				1	24	24.3	22.4	38.45	-16.0
				12	0	24.4	22.4	38.45	-16.0
				12	6	24.4	22.5	38.45	-16.0
				12	11	24.3	22.4	38.45	-16.0
				25	0	24.4	22.4	38.45	-16.0
			16QAM	1	0	24.1	22.2	38.45	-16.3
				1	12	24.0	22.1	38.45	-16.3
				1	24	24.0	22.1	38.45	-16.4
				12	0	23.0	21.0	38.45	-17.4
				12	6	23.0	21.1	38.45	-17.4
				12	11	22.9	21.0	38.45	-17.4
				25	0	22.9	21.0	38.45	-17.5
5.0	26765	821.5	QPSK	1	0	24.3	22.4	38.45	-16.1
				1	12	24.2	22.3	38.45	-16.2
				1	24	24.2	22.3	38.45	-16.2
				12	0	24.2	22.3	38.45	-16.1
				12	6	24.2	22.3	38.45	-16.1
				12	11	24.2	22.3	38.45	-16.2
				25	0	24.2	22.3	38.45	-16.2
			16QAM	1	0	24.3	22.4	38.45	-16.1
				1	12	24.3	22.4	38.45	-16.1
				1	24	24.3	22.4	38.45	-16.1
				12	0	22.9	21.0	38.45	-17.5
				12	6	22.8	20.9	38.45	-17.5
				12	11	22.9	20.9	38.45	-17.5
				25	0	22.8	20.9	38.45	-17.6

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	26740	819.0	QPSK	1	0	24.5	22.6	38.45	-15.8
				1	24	24.5	22.6	38.45	-15.9
				1	49	24.3	22.4	38.45	-16.1
				25	0	24.5	22.6	38.45	-15.8
				25	12	24.5	22.6	38.45	-15.8
				25	24	24.5	22.5	38.45	-15.9
				50	0	24.4	22.5	38.45	-15.9
			16QAM	1	0	24.0	22.1	38.45	-16.4
				1	24	23.9	22.0	38.45	-16.4
				1	49	23.8	21.9	38.45	-16.6
				25	0	23.1	21.2	38.45	-17.2
				25	12	23.1	21.2	38.45	-17.3
				25	24	23.0	21.1	38.45	-17.3
				50	0	23.0	21.1	38.45	-17.3

7.1.10. LTE BAND 27

ID:	37290	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 27 (1.4 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	27117	814.7	QPSK	1	0	23.6	21.7	50.00	-28.3
				1	2	23.5	21.6	50.00	-28.4
				1	5	23.4	21.5	50.00	-28.5
				3	0	23.5	21.6	50.00	-28.4
				3	1	23.4	21.5	50.00	-28.5
				3	2	23.6	21.7	50.00	-28.3
			16QAM	6	0	22.5	20.6	50.00	-29.4
				1	0	22.5	20.6	50.00	-29.4
				1	2	22.6	20.7	50.00	-29.3
				1	5	22.5	20.6	50.00	-29.4
				3	0	22.7	20.8	50.00	-29.2
				3	1	22.7	20.8	50.00	-29.2
				3	2	22.6	20.7	50.00	-29.3
				6	0	21.7	19.8	50.00	-30.2
1.4	27160	819.0	QPSK	1	0	23.4	21.5	50.00	-28.5
				1	2	23.5	21.5	50.00	-28.5
				1	5	23.4	21.5	50.00	-28.5
				3	0	23.5	21.6	50.00	-28.4
				3	1	23.4	21.5	50.00	-28.5
				3	2	23.4	21.5	50.00	-28.5
			16QAM	6	0	22.3	20.4	50.00	-29.6
				1	0	22.8	20.9	50.00	-29.1
				1	2	22.8	20.9	50.00	-29.1
				1	5	22.7	20.8	50.00	-29.2
				3	0	22.6	20.7	50.00	-29.3
				3	1	22.6	20.7	50.00	-29.3
				3	2	22.6	20.7	50.00	-29.3
				6	0	21.3	19.4	50.00	-30.6
1.4	27203	823.3	QPSK	1	0	23.4	21.5	50.00	-28.5
				1	2	23.4	21.5	50.00	-28.5
				1	5	23.3	21.3	50.00	-28.7
				3	0	23.4	21.5	50.00	-28.5
				3	1	23.5	21.6	50.00	-28.4
				3	2	23.5	21.6	50.00	-28.4
			16QAM	6	0	22.3	20.4	50.00	-29.6
				1	0	22.3	20.4	50.00	-29.6
				1	2	22.4	20.5	50.00	-29.5
				1	5	22.4	20.4	50.00	-29.6
				3	0	22.5	20.6	50.00	-29.4
				3	1	22.5	20.6	50.00	-29.4
				3	2	22.5	20.6	50.00	-29.4
				6	0	21.5	19.6	50.00	-30.4

OUTPUT POWER FOR LTE BAND 27 (3.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	27125	815.5	QPSK	1	0	23.6	21.7	50.00	-28.3
				1	7	23.6	21.7	50.00	-28.3
				1	14	23.5	21.6	50.00	-28.4
				8	0	22.6	20.7	50.00	-29.3
				8	4	22.6	20.7	50.00	-29.3
				8	7	22.6	20.7	50.00	-29.3
				15	0	22.5	20.6	50.00	-29.4
			16QAM	1	0	23.0	21.1	50.00	-28.9
				1	7	22.9	21.0	50.00	-29.0
				1	14	22.9	21.0	50.00	-29.0
				8	0	21.5	19.6	50.00	-30.4
				8	4	21.5	19.6	50.00	-30.4
				8	7	21.4	19.5	50.00	-30.5
				15	0	21.6	19.7	50.00	-30.3
3.0	27160	819.0	QPSK	1	0	23.5	21.6	50.00	-28.4
				1	7	23.5	21.5	50.00	-28.5
				1	14	23.3	21.4	50.00	-28.6
				8	0	22.4	20.5	50.00	-29.5
				8	4	22.4	20.4	50.00	-29.6
				8	7	22.5	20.6	50.00	-29.4
				15	0	22.5	20.6	50.00	-29.4
			16QAM	1	0	22.6	20.7	50.00	-29.3
				1	7	22.6	20.7	50.00	-29.3
				1	14	22.5	20.6	50.00	-29.4
				8	0	21.7	19.8	50.00	-30.2
				8	4	21.7	19.8	50.00	-30.2
				8	7	21.7	19.8	50.00	-30.2
				15	0	21.4	19.5	50.00	-30.5
3.0	27195	822.5	QPSK	1	0	23.5	21.6	50.00	-28.4
				1	7	23.5	21.6	50.00	-28.4
				1	14	23.4	21.5	50.00	-28.5
				8	0	22.5	20.6	50.00	-29.4
				8	4	22.5	20.6	50.00	-29.4
				8	7	22.5	20.6	50.00	-29.4
				15	0	22.5	20.6	50.00	-29.4
			16QAM	1	0	22.4	20.5	50.00	-29.5
				1	7	22.4	20.5	50.00	-29.5
				1	14	22.3	20.3	50.00	-29.7
				8	0	21.6	19.7	50.00	-30.3
				8	4	21.6	19.7	50.00	-30.3
				8	7	21.6	19.7	50.00	-30.3
				15	0	21.6	19.7	50.00	-30.3

OUTPUT POWER FOR LTE BAND 27 (5.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	27135	816.5	QPSK	1	0	23.7	21.8	50.00	-28.2
				1	12	23.6	21.7	50.00	-28.3
				1	24	23.6	21.7	50.00	-28.3
				12	0	22.6	20.7	50.00	-29.3
				12	6	22.7	20.7	50.00	-29.3
				12	11	22.6	20.7	50.00	-29.3
				25	0	22.6	20.7	50.00	-29.3
			16QAM	1	0	23.2	21.3	50.00	-28.7
				1	12	23.1	21.2	50.00	-28.8
				1	24	23.1	21.2	50.00	-28.8
				12	0	21.8	19.9	50.00	-30.1
				12	6	21.8	19.9	50.00	-30.1
				12	11	21.8	19.9	50.00	-30.1
				25	0	21.7	19.8	50.00	-30.2
5.0	27160	819.0	QPSK	1	0	23.7	21.8	50.00	-28.2
				1	12	23.5	21.5	50.00	-28.5
				1	24	23.6	21.7	50.00	-28.3
				12	0	22.5	20.6	50.00	-29.4
				12	6	22.4	20.5	50.00	-29.5
				12	11	22.4	20.5	50.00	-29.5
				25	0	22.5	20.6	50.00	-29.4
			16QAM	1	0	22.5	20.6	50.00	-29.4
				1	12	22.4	20.5	50.00	-29.5
				1	24	22.6	20.7	50.00	-29.3
				12	0	21.6	19.7	50.00	-30.3
				12	6	21.6	19.7	50.00	-30.3
				12	11	21.5	19.6	50.00	-30.4
				25	0	21.5	19.6	50.00	-30.4
5.0	27185	821.5	QPSK	1	0	23.6	21.6	50.00	-28.4
				1	12	23.4	21.5	50.00	-28.5
				1	24	23.4	21.5	50.00	-28.5
				12	0	22.4	20.5	50.00	-29.5
				12	6	22.4	20.5	50.00	-29.5
				12	11	22.5	20.6	50.00	-29.4
				25	0	22.5	20.5	50.00	-29.5
			16QAM	1	0	22.7	20.8	50.00	-29.2
				1	12	22.6	20.7	50.00	-29.3
				1	24	22.6	20.7	50.00	-29.3
				12	0	21.6	19.7	50.00	-30.3
				12	6	21.6	19.7	50.00	-30.3
				12	11	21.6	19.7	50.00	-30.3
				25	0	21.5	19.6	50.00	-30.4

OUTPUT POWER FOR LTE BAND 27 (10.0 MHz)

Antenna Gain (dBi)		0.24							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	27160	819.0	QPSK	1	0	24.0	22.0	50.00	-28.0
				1	24	23.9	22.0	50.00	-28.0
				1	49	23.9	22.0	50.00	-28.0
				25	0	22.9	21.0	50.00	-29.0
				25	12	23.0	21.1	50.00	-28.9
				25	24	23.0	21.1	50.00	-28.9
				50	0	23.0	21.1	50.00	-28.9
			16QAM	1	0	22.9	21.0	50.00	-29.0
				1	24	22.9	21.0	50.00	-29.0
				1	49	22.9	20.9	50.00	-29.1
				25	0	22.1	20.2	50.00	-29.8
				25	12	22.1	20.2	50.00	-29.8
				25	24	22.1	20.2	50.00	-29.8
				50	0	22.1	20.2	50.00	-29.8

7.1.11. LTE BAND 30

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 30 (5.0 MH)

Antenna Gain (dBi)		0.85							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	27685	2307.5	QPSK	1	0	21.9	22.8	24.0	-1.2
				1	12	21.9	22.8	24.0	-1.2
				1	24	21.8	22.6	24.0	-1.4
				12	0	20.9	21.8	24.0	-2.2
				12	6	20.9	21.8	24.0	-2.2
				12	11	20.9	21.7	24.0	-2.3
				25	0	20.9	21.7	24.0	-2.3
			16QAM	1	0	21.2	22.0	24.0	-2.0
				1	12	21.1	21.9	24.0	-2.1
				1	24	21.0	21.8	24.0	-2.2
				12	0	20.0	20.8	24.0	-3.2
				12	6	20.0	20.8	24.0	-3.2
				12	11	20.0	20.8	24.0	-3.2
				25	0	19.9	20.8	24.0	-3.2
5.0	27710	2310.0	QPSK	1	0	22.2	23.1	24.0	-0.9
				1	12	22.2	23.0	24.0	-1.0
				1	24	22.1	23.0	24.0	-1.0
				12	0	21.2	22.1	24.0	-1.9
				12	6	21.2	22.0	24.0	-2.0
				12	11	21.2	22.0	24.0	-2.0
				25	0	21.1	22.0	24.0	-2.0
			16QAM	1	0	21.8	22.6	24.0	-1.4
				1	12	21.7	22.5	24.0	-1.5
				1	24	21.6	22.5	24.0	-1.5
				12	0	20.3	21.2	24.0	-2.8
				12	6	20.3	21.2	24.0	-2.8
				12	11	20.3	21.2	24.0	-2.8
				25	0	20.2	21.1	24.0	-2.9
5.0	27735	2312.5	QPSK	1	0	21.9	22.8	24.0	-1.2
				1	12	21.9	22.7	24.0	-1.3
				1	24	21.9	22.7	24.0	-1.3
				12	0	20.9	21.7	24.0	-2.3
				12	6	21.0	21.8	24.0	-2.2
				12	11	20.9	21.8	24.0	-2.2
				25	0	20.9	21.8	24.0	-2.2
			16QAM	1	0	21.1	21.9	24.0	-2.1
				1	12	21.0	21.9	24.0	-2.1
				1	24	21.0	21.9	24.0	-2.1
				12	0	20.0	20.8	24.0	-3.2
				12	6	20.0	20.9	24.0	-3.1
				12	11	20.0	20.8	24.0	-3.2
				25	0	19.9	20.8	24.0	-3.2

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Antenna Gain (dBi)		0.85							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	27710	2310.0	QPSK	1	0	22.3	23.1	24.0	-0.9
				1	24	22.1	23.0	24.0	-1.0
				1	49	22.2	23.0	24.0	-1.0
				25	0	21.3	22.1	24.0	-1.9
				25	12	21.2	22.1	24.0	-1.9
				25	24	21.1	22.0	24.0	-2.0
				50	0	21.3	22.1	24.0	-1.9
			16QAM	1	0	21.3	22.1	24.0	-1.9
				1	24	21.1	22.0	24.0	-2.0
				1	49	21.2	22.0	24.0	-2.0
				25	0	20.3	21.2	24.0	-2.8
				25	12	20.3	21.1	24.0	-2.9
				25	24	20.2	21.1	24.0	-2.9
				50	0	20.3	21.1	24.0	-2.9

7.1.12. LTE BAND 41

ID:	39005	Date:	11/29/2016
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OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Antenna Gain (dBi)	0.14								
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	39675	2498.5	QPSK	1	0	22.5	22.6	33.0	-10.4
				1	12	22.5	22.7	33.0	-10.3
				1	24	22.5	22.6	33.0	-10.4
				12	0	22.0	22.1	33.0	-10.9
				12	6	21.9	22.0	33.0	-11.0
				12	11	22.0	22.1	33.0	-10.9
				25	0	22.0	22.1	33.0	-10.9
			16QAM	1	0	22.3	22.4	33.0	-10.6
				1	12	22.3	22.4	33.0	-10.6
				1	24	22.3	22.4	33.0	-10.6
				12	0	21.0	21.2	33.0	-11.8
				12	6	21.0	21.1	33.0	-11.9
				12	11	21.0	21.2	33.0	-11.8
				25	0	21.0	21.1	33.0	-11.9
5.0	40620	2593.0	QPSK	1	0	22.6	22.7	33.0	-10.3
				1	12	22.5	22.6	33.0	-10.4
				1	24	22.4	22.6	33.0	-10.4
				12	0	22.0	22.2	33.0	-10.8
				12	6	22.0	22.2	33.0	-10.8
				12	11	22.0	22.1	33.0	-10.9
				25	0	21.9	22.1	33.0	-10.9
			16QAM	1	0	22.3	22.4	33.0	-10.6
				1	12	22.3	22.4	33.0	-10.6
				1	24	22.2	22.3	33.0	-10.7
				12	0	21.0	21.1	33.0	-11.9
				12	6	21.0	21.1	33.0	-11.9
				12	11	21.0	21.1	33.0	-11.9
				25	0	21.0	21.2	33.0	-11.8
5.0	41565	2687.5	QPSK	1	0	22.6	22.7	33.0	-10.3
				1	12	22.5	22.6	33.0	-10.4
				1	24	22.4	22.5	33.0	-10.5
				12	0	21.4	21.6	33.0	-11.4
				12	6	21.4	21.6	33.0	-11.5
				12	11	21.4	21.5	33.0	-11.5
				25	0	21.4	21.5	33.0	-11.5
			16QAM	1	0	21.9	22.0	33.0	-11.0
				1	12	21.8	21.9	33.0	-11.1
				1	24	21.7	21.9	33.0	-11.1
				12	0	20.5	20.7	33.0	-12.3
				12	6	20.5	20.7	33.0	-12.4
				12	11	20.5	20.6	33.0	-12.4
				25	0	20.4	20.5	33.0	-12.5

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Antenna Gain (dBi)		0.14							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	39700	2501.0	QPSK	1	0	22.6	22.8	33.0	-10.2
				1	24	22.5	22.6	33.0	-10.4
				1	49	22.5	22.6	33.0	-10.4
				25	0	22.1	22.2	33.0	-10.8
				25	12	22.0	22.2	33.0	-10.8
				25	24	22.0	22.1	33.0	-10.9
				50	0	22.1	22.2	33.0	-10.8
			16QAM	1	0	22.0	22.2	33.0	-10.8
				1	24	21.8	22.0	33.0	-11.0
				1	49	21.8	22.0	33.0	-11.0
				25	0	20.5	20.7	33.0	-12.4
				25	12	20.5	20.6	33.0	-12.4
				25	24	20.5	20.6	33.0	-12.4
				50	0	20.5	20.6	33.0	-12.4
10.0	40620	2593.0	QPSK	1	0	22.7	22.9	33.0	-10.1
				1	24	22.5	22.6	33.0	-10.4
				1	49	22.6	22.7	33.0	-10.3
				25	0	22.1	22.3	33.0	-10.7
				25	12	22.1	22.2	33.0	-10.8
				25	24	22.0	22.1	33.0	-10.9
				50	0	22.0	22.2	33.0	-10.8
			16QAM	1	0	22.1	22.2	33.0	-10.8
				1	24	21.9	22.0	33.0	-11.0
				1	49	21.9	22.0	33.0	-11.0
				25	0	20.6	20.8	33.0	-12.2
				25	12	20.6	20.7	33.0	-12.3
				25	24	20.5	20.6	33.0	-12.4
				50	0	20.6	20.7	33.0	-12.3
10.0	41540	2685.0	QPSK	1	0	22.7	22.9	33.0	-10.2
				1	24	22.5	22.6	33.0	-10.4
				1	49	22.2	22.4	33.0	-10.6
				25	0	21.6	21.8	33.0	-11.3
				25	12	21.5	21.7	33.0	-11.4
				25	24	21.4	21.5	33.0	-11.5
				50	0	21.4	21.6	33.0	-11.4
			16QAM	1	0	21.5	21.6	33.0	-11.4
				1	24	21.2	21.3	33.0	-11.7
				1	49	21.0	21.1	33.0	-11.9
				25	0	20.1	20.3	33.0	-12.7
				25	12	20.0	20.1	33.0	-12.9
				25	24	19.9	20.0	33.0	-13.0
				50	0	19.9	20.1	33.0	-12.9

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Antenna Gain (dBi)		0.14							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	39725	2503.5	QPSK	1	0	22.6	22.7	33.0	-10.3
				1	37	22.4	22.5	33.0	-10.5
				1	74	22.2	22.4	33.0	-10.6
				36	0	22.1	22.2	33.0	-10.8
				36	16	22.1	22.2	33.0	-10.8
				36	35	21.9	22.0	33.0	-11.0
				75	0	22.0	22.1	33.0	-10.9
			16-QAM	1	0	22.1	22.2	33.0	-10.8
				1	37	22.1	22.3	33.0	-10.7
				1	74	21.8	22.0	33.0	-11.1
				36	0	21.0	21.1	33.0	-11.9
				36	16	21.0	21.1	33.0	-11.9
				36	35	20.9	21.0	33.0	-12.0
				75	0	21.0	21.2	33.0	-11.8
15.0	40620	2593.0	QPSK	1	0	22.9	23.1	33.0	-10.0
				1	37	22.6	22.8	33.0	-10.3
				1	74	22.4	22.5	33.0	-10.5
				36	0	22.1	22.3	33.0	-10.7
				36	16	22.0	22.2	33.0	-10.8
				36	35	22.0	22.2	33.0	-10.9
				75	0	22.0	22.1	33.0	-10.9
			16-QAM	1	0	22.5	22.6	33.0	-10.4
				1	37	22.4	22.6	33.0	-10.4
				1	74	22.2	22.3	33.0	-10.7
				36	0	21.1	21.2	33.0	-11.8
				36	16	21.1	21.2	33.0	-11.8
				36	35	21.0	21.2	33.0	-11.9
				75	0	21.0	21.1	33.0	-11.9
15.0	41515	2682.5	QPSK	1	0	22.6	22.7	33.0	-10.3
				1	37	22.6	22.8	33.0	-10.2
				1	74	22.3	22.4	33.0	-10.6
				36	0	21.9	22.1	33.0	-10.9
				36	16	21.7	21.9	33.0	-11.2
				36	35	21.5	21.6	33.0	-11.4
				75	0	21.7	21.8	33.0	-11.2
			16-QAM	1	0	22.4	22.5	33.0	-10.5
				1	37	21.9	22.1	33.0	-10.9
				1	74	21.7	21.8	33.0	-11.2
				36	0	21.0	21.1	33.0	-11.9
				36	16	20.8	20.9	33.0	-12.1
				36	35	20.5	20.6	33.0	-12.4
				75	0	20.7	20.8	33.0	-12.2

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Antenna Gain (dBi)		0.14							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	39750	2506.0	QPSK	1	0	22.5	22.6	33.0	-10.4
				1	49	22.5	22.7	33.0	-10.3
				1	99	22.4	22.5	33.0	-10.5
				50	0	22.1	22.2	33.0	-10.8
				50	24	22.0	22.2	33.0	-10.8
				50	49	22.1	22.2	33.0	-10.8
				100	0	22.0	22.1	33.0	-10.9
			16-QAM	1	0	22.0	22.2	33.0	-10.8
				1	49	22.1	22.3	33.0	-10.7
				1	99	22.0	22.2	33.0	-10.8
				50	0	21.0	21.1	33.0	-11.9
				50	24	21.0	21.1	33.0	-11.9
				50	49	21.0	21.1	33.0	-11.9
				100	0	20.9	21.1	33.0	-11.9
20.0	40620	2593.0	QPSK	1	0	22.8	22.9	33.0	-10.1
				1	49	22.5	22.7	33.0	-10.3
				1	99	22.3	22.5	33.0	-10.6
				50	0	22.2	22.3	33.0	-10.7
				50	24	22.1	22.2	33.0	-10.8
				50	49	22.0	22.1	33.0	-10.9
				100	0	22.0	22.1	33.0	-10.9
			16-QAM	1	0	22.4	22.5	33.0	-10.5
				1	49	22.4	22.5	33.0	-10.5
				1	99	22.2	22.3	33.0	-10.7
				50	0	21.2	21.3	33.0	-11.7
				50	24	21.1	21.2	33.0	-11.8
				50	49	21.0	21.1	33.0	-11.9
				100	0	21.0	21.1	33.0	-11.9
20.0	41490	2680.0	QPSK	1	0	22.4	22.6	33.0	-10.4
				1	49	22.5	22.6	33.0	-10.4
				1	99	22.2	22.4	33.0	-10.6
				50	0	22.0	22.1	33.0	-10.9
				50	24	21.8	22.0	33.0	-11.0
				50	49	21.5	21.7	33.0	-11.4
				100	0	21.9	22.0	33.0	-11.0
			16-QAM	1	0	22.2	22.3	33.0	-10.7
				1	49	22.0	22.2	33.0	-10.8
				1	99	21.6	21.8	33.0	-11.3
				50	0	21.0	21.1	33.0	-11.9
				50	24	20.8	21.0	33.0	-12.0
				50	49	20.5	20.7	33.0	-12.4
				100	0	20.9	21.0	33.0	-12.0

7.2. ANTENNA D

7.2.1. LTE BAND 2

ID:	38806	Date:	11/29/16
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OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Antenna gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.4	23.5	33.0	-9.5
				1	2	22.4	23.4	33.0	-9.6
				1	5	22.2	23.3	33.0	-9.7
				3	0	22.4	23.5	33.0	-9.5
				3	1	22.4	23.5	33.0	-9.5
				3	2	22.4	23.4	33.0	-9.6
			16QAM	6	0	21.3	22.4	33.0	-10.6
				1	0	21.5	22.6	33.0	-10.4
				1	2	21.4	22.4	33.0	-10.6
				1	5	21.3	22.4	33.0	-10.6
				3	0	21.5	22.6	33.0	-10.4
				3	1	21.5	22.6	33.0	-10.4
				3	2	21.3	22.4	33.0	-10.6
				6	0	20.4	21.5	33.0	-11.5
1.4	18900	1880.0	QPSK	1	0	22.1	23.2	33.0	-9.8
				1	2	22.2	23.3	33.0	-9.8
				1	5	22.2	23.2	33.0	-9.8
				3	0	22.2	23.3	33.0	-9.7
				3	1	22.3	23.4	33.0	-9.7
				3	2	22.3	23.4	33.0	-9.7
			16QAM	6	0	21.2	22.2	33.0	-10.8
				1	0	21.3	22.4	33.0	-10.6
				1	2	21.3	22.4	33.0	-10.6
				1	5	21.3	22.4	33.0	-10.7
				3	0	21.3	22.4	33.0	-10.6
				3	1	21.3	22.4	33.0	-10.6
				3	2	21.3	22.4	33.0	-10.6
				6	0	20.3	21.4	33.0	-11.6
1.4	19193	1909.3	QPSK	1	0	22.0	23.1	33.0	-9.9
				1	2	22.0	23.1	33.0	-9.9
				1	5	22.0	23.1	33.0	-9.9
				3	0	22.1	23.2	33.0	-9.9
				3	1	22.1	23.2	33.0	-9.8
				3	2	22.1	23.2	33.0	-9.8
			16QAM	6	0	21.0	22.1	33.0	-10.9
				1	0	21.4	22.4	33.0	-10.6
				1	2	21.5	22.5	33.0	-10.5
				1	5	21.4	22.4	33.0	-10.6
				3	0	21.2	22.3	33.0	-10.7
				3	1	21.3	22.3	33.0	-10.7
				3	2	21.3	22.4	33.0	-10.7
				6	0	19.9	21.0	33.0	-12.0

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Antenna Gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3.0	18615	1851.5	QPSK	1	0	22.5	23.5	33.0	-9.5
				1	7	22.4	23.5	33.0	-9.5
				1	14	22.3	23.4	33.0	-9.6
				8	0	21.4	22.5	33.0	-10.6
				8	4	21.4	22.5	33.0	-10.6
				8	7	21.4	22.5	33.0	-10.5
				15	0	21.3	22.4	33.0	-10.6
			16QAM	1	0	21.4	22.5	33.0	-10.5
				1	7	21.5	22.5	33.0	-10.5
				1	14	21.4	22.4	33.0	-10.6
				8	0	20.6	21.6	33.0	-11.4
				8	4	20.6	21.6	33.0	-11.4
				8	7	20.5	21.6	33.0	-11.4
				15	0	20.3	21.4	33.0	-11.6
3.0	18900	1880.0	QPSK	1	0	22.3	23.3	33.0	-9.7
				1	7	22.3	23.4	33.0	-9.6
				1	14	22.2	23.3	33.0	-9.8
				8	0	21.3	22.3	33.0	-10.7
				8	4	21.3	22.4	33.0	-10.7
				8	7	21.3	22.3	33.0	-10.7
				15	0	21.3	22.3	33.0	-10.7
			16QAM	1	0	21.2	22.2	33.0	-10.8
				1	7	21.3	22.3	33.0	-10.7
				1	14	21.0	22.1	33.0	-10.9
				8	0	20.3	21.4	33.0	-11.6
				8	4	20.3	21.4	33.0	-11.6
				8	7	20.4	21.4	33.0	-11.6
				15	0	20.3	21.4	33.0	-11.6
3.0	19185	1908.5	QPSK	1	0	22.1	23.2	33.0	-9.8
				1	7	22.2	23.3	33.0	-9.8
				1	14	22.1	23.1	33.0	-9.9
				8	0	21.2	22.3	33.0	-10.8
				8	4	21.2	22.2	33.0	-10.8
				8	7	21.1	22.2	33.0	-10.8
				15	0	21.1	22.2	33.0	-10.8
			16QAM	1	0	21.6	22.7	33.0	-10.3
				1	7	21.5	22.6	33.0	-10.4
				1	14	21.4	22.5	33.0	-10.5
				8	0	20.0	21.1	33.0	-11.9
				8	4	20.0	21.1	33.0	-11.9
				8	7	20.0	21.1	33.0	-11.9
				15	0	20.2	21.2	33.0	-11.8

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Antenna Gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	18625	1852.5	QPSK	1	0	22.4	23.5	33.0	-9.5
				1	12	22.4	23.5	33.0	-9.5
				1	24	22.4	23.5	33.0	-9.5
				12	0	21.4	22.5	33.0	-10.5
				12	6	21.4	22.5	33.0	-10.5
				12	11	21.4	22.5	33.0	-10.5
				25	0	21.4	22.4	33.0	-10.6
			16QAM	1	0	21.9	23.0	33.0	-10.0
				1	12	21.9	23.0	33.0	-10.0
				1	24	21.9	23.0	33.0	-10.0
				12	0	20.5	21.6	33.0	-11.4
				12	6	20.5	21.6	33.0	-11.4
				12	11	20.5	21.6	33.0	-11.4
				25	0	20.4	21.5	33.0	-11.5
5.0	18900	1880.0	QPSK	1	0	22.4	23.5	33.0	-9.5
				1	12	22.3	23.3	33.0	-9.7
				1	24	22.3	23.3	33.0	-9.7
				12	0	21.2	22.3	33.0	-10.7
				12	6	21.3	22.4	33.0	-10.6
				12	11	21.2	22.3	33.0	-10.7
				25	0	21.2	22.3	33.0	-10.7
			16QAM	1	0	21.5	22.6	33.0	-10.4
				1	12	21.4	22.4	33.0	-10.6
				1	24	21.3	22.4	33.0	-10.6
				12	0	20.3	21.4	33.0	-11.6
				12	6	20.3	21.4	33.0	-11.6
				12	11	20.3	21.3	33.0	-11.7
				25	0	20.2	21.3	33.0	-11.7
5.0	19175	1907.5	QPSK	1	0	22.1	23.2	33.0	-9.8
				1	12	22.1	23.2	33.0	-9.8
				1	24	22.1	23.2	33.0	-9.8
				12	0	21.1	22.2	33.0	-10.8
				12	6	21.1	22.2	33.0	-10.8
				12	11	21.1	22.2	33.0	-10.8
				25	0	21.1	22.2	33.0	-10.8
			16QAM	1	0	21.3	22.4	33.0	-10.6
				1	12	21.3	22.4	33.0	-10.6
				1	24	21.3	22.3	33.0	-10.7
				12	0	20.2	21.3	33.0	-11.8
				12	6	20.2	21.3	33.0	-11.7
				12	11	20.2	21.3	33.0	-11.7
				25	0	20.1	21.2	33.0	-11.8

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Antenna Gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	18650	1855.0	QPSK	1	0	22.4	23.5	33.0	-9.6
				1	24	22.3	23.4	33.0	-9.6
				1	49	21.5	22.5	33.0	-10.5
				25	0	21.5	22.5	33.0	-10.5
				25	12	21.4	22.4	33.0	-10.6
				25	24	21.4	22.5	33.0	-10.5
				50	0	21.8	22.8	33.0	-10.2
			16QAM	1	0	21.8	22.8	33.0	-10.2
				1	24	21.7	22.8	33.0	-10.2
				1	49	20.5	21.5	33.0	-11.5
				25	0	20.4	21.5	33.0	-11.5
				25	12	20.4	21.4	33.0	-11.6
				25	24	20.4	21.5	33.0	-11.5
				50	0	22.3	23.4	33.0	-9.6
10.0	18900	1880.0	QPSK	1	0	22.3	23.3	33.0	-9.7
				1	24	22.2	23.3	33.0	-9.7
				1	49	21.4	22.5	33.0	-10.6
				25	0	21.3	22.4	33.0	-10.6
				25	12	21.2	22.3	33.0	-10.7
				25	24	21.3	22.4	33.0	-10.6
				50	0	21.4	22.4	33.0	-10.6
			16QAM	1	0	21.2	22.3	33.0	-10.7
				1	24	21.2	22.3	33.0	-10.7
				1	49	20.4	21.5	33.0	-11.5
				25	0	20.4	21.4	33.0	-11.6
				25	12	20.3	21.4	33.0	-11.6
				25	24	20.3	21.4	33.0	-11.6
				50	0	22.2	23.2	33.0	-9.8
10.0	19150	1905.0	QPSK	1	0	22.1	23.1	33.0	-9.9
				1	24	22.0	23.1	33.0	-9.9
				1	49	21.2	22.3	33.0	-10.7
				25	0	21.2	22.3	33.0	-10.8
				25	12	21.1	22.2	33.0	-10.8
				25	24	21.2	22.2	33.0	-10.8
				50	0	21.1	22.1	33.0	-10.9
			16QAM	1	0	21.0	22.1	33.0	-10.9
				1	24	20.9	22.0	33.0	-11.0
				1	49	20.2	21.2	33.0	-11.8
				25	0	20.2	21.2	33.0	-11.8
				25	12	20.1	21.2	33.0	-11.8
				25	24	20.1	21.2	33.0	-11.8
				50	0	20.2	21.3	33.0	-11.7

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Antenna Gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	18675	1857.5	QPSK	1	0	22.5	23.6	33.0	-9.4
				1	37	22.5	23.6	33.0	-9.5
				1	74	22.3	23.4	33.0	-9.6
				36	0	21.6	22.7	33.0	-10.3
				36	16	21.6	22.7	33.0	-10.4
				36	35	21.6	22.7	33.0	-10.3
				75	0	21.5	22.6	33.0	-10.4
			16-QAM	1	0	21.9	23.0	33.0	-10.0
				1	37	21.8	22.9	33.0	-10.1
				1	74	21.7	22.8	33.0	-10.2
				36	0	20.5	21.6	33.0	-11.4
				36	16	20.5	21.6	33.0	-11.4
				36	35	20.6	21.6	33.0	-11.4
				75	0	20.5	21.6	33.0	-11.4
15.0	18900	1880.0	QPSK	1	0	22.4	23.5	33.0	-9.5
				1	37	22.3	23.3	33.0	-9.7
				1	74	22.3	23.3	33.0	-9.7
				36	0	21.5	22.6	33.0	-10.5
				36	16	21.5	22.6	33.0	-10.5
				36	35	21.4	22.5	33.0	-10.6
				75	0	21.4	22.4	33.0	-10.6
			16-QAM	1	0	21.3	22.4	33.0	-10.6
				1	37	21.3	22.3	33.0	-10.7
				1	74	21.1	22.2	33.0	-10.9
				36	0	20.4	21.5	33.0	-11.5
				36	16	20.4	21.5	33.0	-11.5
				36	35	20.4	21.4	33.0	-11.6
				75	0	20.4	21.5	33.0	-11.6
15.0	19125	1902.5	QPSK	1	0	22.4	23.4	33.0	-9.6
				1	37	22.1	23.1	33.0	-9.9
				1	74	22.1	23.2	33.0	-9.8
				36	0	21.3	22.4	33.0	-10.6
				36	16	21.4	22.5	33.0	-10.6
				36	35	21.3	22.3	33.0	-10.7
				75	0	21.3	22.4	33.0	-10.6
			16-QAM	1	0	21.7	22.7	33.0	-10.3
				1	37	21.7	22.7	33.0	-10.3
				1	74	21.5	22.5	33.0	-10.5
				36	0	20.3	21.3	33.0	-11.7
				36	16	20.4	21.4	33.0	-11.6
				36	35	20.3	21.4	33.0	-11.7
				75	0	20.3	21.4	33.0	-11.6

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Antenna Gain (dBi)		1.07							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	18700	1860.0	QPSK	1	0	22.3	23.4	33.0	-9.6
				1	49	22.4	23.5	33.0	-9.5
				1	99	22.1	23.2	33.0	-9.8
				50	0	21.4	22.5	33.0	-10.5
				50	24	21.5	22.5	33.0	-10.5
				50	49	21.4	22.5	33.0	-10.6
				100	0	21.4	22.5	33.0	-10.5
			16-QAM	1	0	21.7	22.8	33.0	-10.2
				1	49	21.9	22.9	33.0	-10.1
				1	99	21.5	22.6	33.0	-10.4
				50	0	20.4	21.4	33.0	-11.6
				50	24	20.4	21.5	33.0	-11.5
				50	49	20.4	21.4	33.0	-11.6
				100	0	20.4	21.4	33.0	-11.6
20.0	18900	1880.0	QPSK	1	0	22.4	23.5	33.0	-9.5
				1	49	22.3	23.3	33.0	-9.7
				1	99	22.0	23.1	33.0	-9.9
				50	0	21.3	22.4	33.0	-10.7
				50	24	21.3	22.4	33.0	-10.6
				50	49	21.1	22.2	33.0	-10.8
				100	0	21.3	22.4	33.0	-10.6
			16-QAM	1	0	22.0	23.1	33.0	-9.9
				1	49	21.8	22.9	33.0	-10.1
				1	99	21.5	22.6	33.0	-10.4
				50	0	20.3	21.4	33.0	-11.6
				50	24	20.3	21.4	33.0	-11.6
				50	49	20.1	21.2	33.0	-11.8
				100	0	20.2	21.3	33.0	-11.7
20.0	19100	1900.0	QPSK	1	0	22.1	23.2	33.0	-9.8
				1	49	22.1	23.2	33.0	-9.8
				1	99	22.0	23.0	33.0	-10.0
				50	0	21.2	22.2	33.0	-10.8
				50	24	21.1	22.2	33.0	-10.8
				50	49	21.1	22.1	33.0	-10.9
				100	0	21.1	22.1	33.0	-10.9
			16-QAM	1	0	21.5	22.6	33.0	-10.4
				1	49	21.5	22.6	33.0	-10.4
				1	99	21.3	22.4	33.0	-10.6
				50	0	20.1	21.2	33.0	-11.8
				50	24	20.1	21.2	33.0	-11.8
				50	49	20.0	21.1	33.0	-11.9
				100	0	20.1	21.1	33.0	-11.9

7.2.2. LTE BAND 4

ID:	38806	Date:	11/29/16
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OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.0	24.1	30.0	-5.9
				1	2	23.0	24.2	30.0	-5.8
				1	5	23.0	24.1	30.0	-5.9
				3	0	23.2	24.3	30.0	-5.7
				3	1	23.3	24.4	30.0	-5.6
				3	2	23.3	24.4	30.0	-5.6
			16QAM	6	0	22.2	23.3	30.0	-6.7
				1	0	22.1	23.2	30.0	-6.8
				1	2	22.2	23.3	30.0	-6.7
				1	5	22.1	23.2	30.0	-6.8
				3	0	22.3	23.4	30.0	-6.6
				3	1	22.4	23.5	30.0	-6.5
1.4	20175	1732.5	QPSK	3	2	22.4	23.5	30.0	-6.5
				6	0	21.3	22.4	30.0	-7.6
				1	0	23.2	24.3	30.0	-5.7
				1	2	23.2	24.3	30.0	-5.7
				1	5	23.1	24.2	30.0	-5.8
				3	0	23.2	24.4	30.0	-5.6
			16QAM	3	1	23.3	24.4	30.0	-5.6
				3	2	23.3	24.4	30.0	-5.6
				1	0	22.3	23.4	30.0	-6.6
				1	2	22.3	23.4	30.0	-6.6
				1	5	22.3	23.4	30.0	-6.6
				3	0	22.3	23.5	30.0	-6.5
1.4	20393	1754.3	QPSK	3	1	22.4	23.5	30.0	-6.5
				3	2	22.4	23.5	30.0	-6.5
				6	0	21.3	22.4	30.0	-7.6
				1	0	23.4	24.6	30.0	-5.4
				1	2	23.4	24.5	30.0	-5.5
				1	5	23.3	24.4	30.0	-5.6
			16QAM	3	0	23.4	24.5	30.0	-5.5
				3	1	23.4	24.5	30.0	-5.5
				3	2	23.3	24.5	30.0	-5.5
				6	0	22.4	23.5	30.0	-6.5
				1	0	22.8	23.9	30.0	-6.1
				1	2	22.7	23.8	30.0	-6.2
1.4	20393	1754.3	16QAM	1	5	22.7	23.8	30.0	-6.2
				3	0	22.6	23.7	30.0	-6.3
				3	1	22.6	23.7	30.0	-6.3
				3	2	22.6	23.7	30.0	-6.3
				6	0	21.3	22.4	30.0	-7.6

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3.0	19965	1711.5	QPSK	1	0	23.4	24.5	30.0	-5.5
				1	7	23.4	24.5	30.0	-5.5
				1	14	23.3	24.4	30.0	-5.6
				8	0	22.2	23.3	30.0	-6.7
				8	4	22.2	23.3	30.0	-6.7
				8	7	22.3	23.4	30.0	-6.6
				15	0	22.2	23.4	30.0	-6.6
			16QAM	1	0	22.3	23.4	30.0	-6.6
				1	7	22.4	23.5	30.0	-6.5
				1	14	22.3	23.4	30.0	-6.6
				8	0	21.3	22.4	30.0	-7.6
				8	4	21.5	22.6	30.0	-7.4
				8	7	21.5	22.7	30.0	-7.3
				15	0	21.3	22.4	30.0	-7.6
3.0	20175	1732.5	QPSK	1	0	23.1	24.2	30.0	-5.8
				1	7	23.3	24.4	30.0	-5.6
				1	14	23.2	24.3	30.0	-5.7
				8	0	22.2	23.4	30.0	-6.6
				8	4	22.3	23.4	30.0	-6.6
				8	7	22.3	23.4	30.0	-6.6
				15	0	22.2	23.3	30.0	-6.7
			16QAM	1	0	22.0	23.1	30.0	-6.9
				1	7	22.2	23.3	30.0	-6.7
				1	14	22.1	23.2	30.0	-6.8
				8	0	21.4	22.5	30.0	-7.5
				8	4	21.3	22.4	30.0	-7.6
				8	7	21.4	22.5	30.0	-7.5
				15	0	21.3	22.4	30.0	-7.6
3.0	20385	1753.5	QPSK	1	0	23.5	24.6	30.0	-5.4
				1	7	23.4	24.5	30.0	-5.5
				1	14	23.4	24.5	30.0	-5.5
				8	0	22.4	23.5	30.0	-6.5
				8	4	22.5	23.6	30.0	-6.4
				8	7	22.5	23.6	30.0	-6.4
				15	0	22.4	23.5	30.0	-6.5
			16QAM	1	0	22.9	24.0	30.0	-6.0
				1	7	22.7	23.8	30.0	-6.2
				1	14	22.8	23.9	30.0	-6.1
				8	0	21.3	22.4	30.0	-7.6
				8	4	21.3	22.4	30.0	-7.6
				8	7	21.4	22.5	30.0	-7.5
				15	0	21.4	22.6	30.0	-7.4

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	19975	1712.5	QPSK	1	0	23.1	24.2	30.0	-5.8
				1	12	23.1	24.2	30.0	-5.8
				1	24	23.2	24.4	30.0	-5.6
				12	0	22.2	23.3	30.0	-6.7
				12	6	22.2	23.3	30.0	-6.7
				12	11	22.2	23.3	30.0	-6.7
				25	0	22.1	23.2	30.0	-6.8
			16QAM	1	0	22.3	23.4	30.0	-6.6
				1	12	22.3	23.4	30.0	-6.6
				1	24	22.3	23.4	30.0	-6.6
				12	0	21.3	22.4	30.0	-7.6
				12	6	21.3	22.4	30.0	-7.6
				12	11	21.2	22.4	30.0	-7.6
				25	0	21.2	22.3	30.0	-7.7
5.0	20175	1732.5	QPSK	1	0	23.2	24.3	30.0	-5.7
				1	12	23.3	24.4	30.0	-5.6
				1	24	23.2	24.4	30.0	-5.6
				12	0	22.1	23.2	30.0	-6.8
				12	6	22.3	23.4	30.0	-6.6
				12	11	22.2	23.4	30.0	-6.6
				25	0	22.2	23.4	30.0	-6.6
			16QAM	1	0	22.3	23.4	30.0	-6.6
				1	12	22.4	23.5	30.0	-6.5
				1	24	22.5	23.6	30.0	-6.4
				12	0	21.2	22.3	30.0	-7.7
				12	6	21.4	22.5	30.0	-7.5
				12	11	21.4	22.5	30.0	-7.5
				25	0	21.3	22.4	30.0	-7.6
5.0	20375	1752.5	QPSK	1	0	23.4	24.6	30.0	-5.4
				1	12	23.4	24.5	30.0	-5.5
				1	24	23.4	24.5	30.0	-5.5
				12	0	22.4	23.5	30.0	-6.5
				12	6	22.5	23.6	30.0	-6.4
				12	11	22.5	23.6	30.0	-6.4
				25	0	22.4	23.5	30.0	-6.5
			16QAM	1	0	23.0	24.1	30.0	-5.9
				1	12	23.0	24.1	30.0	-5.9
				1	24	23.0	24.1	30.0	-5.9
				12	0	21.5	22.7	30.0	-7.3
				12	6	21.6	22.7	30.0	-7.3
				12	11	21.6	22.7	30.0	-7.3
				25	0	21.5	22.6	30.0	-7.4

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	20000	1715.0	QPSK	1	0	23.1	24.2	30.0	-5.8
				1	24	22.9	24.0	30.0	-6.0
				1	49	22.9	24.0	30.0	-6.0
				25	0	21.9	23.0	30.0	-7.0
				25	12	21.9	23.0	30.0	-7.0
				25	24	21.9	23.0	30.0	-7.0
				50	0	21.9	23.0	30.0	-7.0
			16QAM	1	0	22.1	23.2	30.0	-6.8
				1	24	21.8	22.9	30.0	-7.1
				1	49	21.9	23.0	30.0	-7.0
				25	0	21.0	22.2	30.0	-7.8
				25	12	21.0	22.1	30.0	-7.9
				25	24	21.0	22.1	30.0	-7.9
				50	0	21.0	22.1	30.0	-7.9
10.0	20175	1732.5	QPSK	1	0	23.1	24.2	30.0	-5.8
				1	24	22.9	24.0	30.0	-6.0
				1	49	23.1	24.2	30.0	-5.8
				25	0	21.9	23.0	30.0	-7.0
				25	12	22.0	23.1	30.0	-6.9
				25	24	22.0	23.1	30.0	-6.9
				50	0	22.1	23.2	30.0	-6.8
			16QAM	1	0	22.0	23.1	30.0	-6.9
				1	24	21.9	23.0	30.0	-7.0
				1	49	21.9	23.0	30.0	-7.0
				25	0	21.0	22.1	30.0	-7.9
				25	12	21.0	22.1	30.0	-7.9
				25	24	21.0	22.1	30.0	-7.9
				50	0	21.0	22.1	30.0	-7.9
10.0	20350	1750.0	QPSK	1	0	23.5	24.6	30.0	-5.4
				1	24	23.2	24.3	30.0	-5.7
				1	49	23.3	24.4	30.0	-5.6
				25	0	22.2	23.3	30.0	-6.7
				25	12	22.3	23.4	30.0	-6.6
				25	24	22.2	23.4	30.0	-6.6
				50	0	22.3	23.4	30.0	-6.6
			16QAM	1	0	22.8	23.9	30.0	-6.1
				1	24	22.6	23.7	30.0	-6.3
				1	49	22.7	23.8	30.0	-6.2
				25	0	21.2	22.4	30.0	-7.6
				25	12	21.3	22.4	30.0	-7.6
				25	24	21.3	22.4	30.0	-7.6
				50	0	21.3	22.4	30.0	-7.6

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	20025	1717.5	QPSK	1	0	23.3	24.4	30.0	-5.6
				1	37	22.9	24.0	30.0	-6.0
				1	74	23.1	24.2	30.0	-5.8
				36	0	22.1	23.2	30.0	-6.8
				36	16	22.0	23.1	30.0	-6.9
				36	35	22.0	23.1	30.0	-6.9
				75	0	22.0	23.1	30.0	-6.9
			16-QAM	1	0	22.7	23.8	30.0	-6.2
				1	37	22.2	23.4	30.0	-6.6
				1	74	22.5	23.6	30.0	-6.4
				36	0	21.1	22.2	30.0	-7.8
				36	16	21.0	22.1	30.0	-7.9
				36	35	21.0	22.1	30.0	-7.9
				75	0	21.1	22.2	30.0	-7.8
15.0	20175	1732.5	QPSK	1	0	23.4	24.5	30.0	-5.5
				1	37	22.8	23.9	30.0	-6.1
				1	74	23.1	24.2	30.0	-5.8
				36	0	22.2	23.3	30.0	-6.7
				36	16	22.1	23.2	30.0	-6.8
				36	35	22.1	23.2	30.0	-6.8
				75	0	22.1	23.2	30.0	-6.8
			16-QAM	1	0	22.2	23.3	30.0	-6.7
				1	37	21.8	22.9	30.0	-7.1
				1	74	21.9	23.0	30.0	-7.0
				36	0	21.1	22.3	30.0	-7.7
				36	16	21.1	22.2	30.0	-7.8
				36	35	21.1	22.2	30.0	-7.8
				75	0	21.1	22.2	30.0	-7.8
15.0	20325	1747.5	QPSK	1	0	23.5	24.6	30.0	-5.4
				1	37	22.9	24.0	30.0	-6.0
				1	74	23.3	24.4	30.0	-5.6
				36	0	22.2	23.3	30.0	-6.7
				36	16	22.1	23.2	30.0	-6.8
				36	35	22.2	23.3	30.0	-6.7
				75	0	22.2	23.3	30.0	-6.7
			16-QAM	1	0	22.9	24.0	30.0	-6.0
				1	37	22.4	23.6	30.0	-6.4
				1	74	22.6	23.7	30.0	-6.3
				36	0	21.3	22.4	30.0	-7.6
				36	16	21.1	22.2	30.0	-7.8
				36	35	21.2	22.3	30.0	-7.7
				75	0	21.2	22.3	30.0	-7.7

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Antenna Gain (dBi)		1.11							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	20050	1720.0	QPSK	1	0	23.3	24.4	30.0	-5.6
				1	49	22.5	23.6	30.0	-6.4
				1	99	22.8	23.9	30.0	-6.1
				50	0	21.8	22.9	30.0	-7.1
				50	24	21.6	22.7	30.0	-7.3
				50	49	21.7	22.8	30.0	-7.2
				100	0	21.7	22.8	30.0	-7.2
			16-QAM	1	0	22.7	23.8	30.0	-6.2
				1	49	21.9	23.0	30.0	-7.0
				1	99	22.2	23.3	30.0	-6.7
				50	0	20.8	21.9	30.0	-8.1
				50	24	20.6	21.7	30.0	-8.3
				50	49	20.7	21.8	30.0	-8.2
				100	0	20.7	21.8	30.0	-8.2
20.0	20175	1732.5	QPSK	1	0	23.4	24.5	30.0	-5.5
				1	49	22.6	23.7	30.0	-6.3
				1	99	22.9	24.1	30.0	-5.9
				50	0	21.9	23.0	30.0	-7.0
				50	24	21.7	22.8	30.0	-7.2
				50	49	21.7	22.8	30.0	-7.2
				100	0	21.8	22.9	30.0	-7.1
			16-QAM	1	0	22.9	24.0	30.0	-6.0
				1	49	22.2	23.3	30.0	-6.7
				1	99	22.5	23.6	30.0	-6.4
				50	0	20.9	22.0	30.0	-8.0
				50	24	20.7	21.8	30.0	-8.2
				50	49	20.7	21.8	30.0	-8.2
				100	0	20.8	21.9	30.0	-8.1
20.0	20300	1745.0	QPSK	1	0	23.3	24.4	30.0	-5.6
				1	49	22.7	23.8	30.0	-6.2
				1	99	23.0	24.1	30.0	-5.9
				50	0	21.9	23.1	30.0	-6.9
				50	24	21.8	22.9	30.0	-7.1
				50	49	21.9	23.0	30.0	-7.0
				100	0	21.9	23.0	30.0	-7.0
			16-QAM	1	0	22.8	23.9	30.0	-6.1
				1	49	22.0	23.1	30.0	-6.9
				1	99	22.3	23.5	30.0	-6.5
				50	0	20.9	22.1	30.0	-7.9
				50	24	20.8	21.9	30.0	-8.1
				50	49	20.9	22.0	30.0	-8.0
				100	0	20.8	21.9	30.0	-8.1

7.2.3. LTE BAND 5

ID:	43575	Date:	12/1/2016
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OUTPUT POWER FOR LTE BAND 5 (1.4MHz)

Antenna Gain (dBi)	0.51								
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	24.0	22.4	38.45	-16.1
				1	2	23.9	22.2	38.45	-16.2
				1	5	23.8	22.2	38.45	-16.3
				3	0	24.0	22.3	38.45	-16.1
				3	1	23.9	22.3	38.45	-16.2
				3	2	23.8	22.2	38.45	-16.3
				6	0	23.0	21.3	38.45	-17.1
			16QAM	1	0	23.0	21.3	38.45	-17.1
				1	2	23.0	21.4	38.45	-17.1
				1	5	23.0	21.3	38.45	-17.1
				3	0	23.2	21.5	38.45	-16.9
				3	1	23.2	21.5	38.45	-16.9
				3	2	23.2	21.5	38.45	-16.9
				6	0	22.1	20.5	38.45	-18.0
1.4	20525	836.5	QPSK	1	0	23.9	22.3	38.45	-16.2
				1	2	24.0	22.3	38.45	-16.1
				1	5	23.9	22.3	38.45	-16.2
				3	0	23.9	22.3	38.45	-16.2
				3	1	23.9	22.3	38.45	-16.2
				3	2	24.0	22.3	38.45	-16.1
				6	0	22.9	21.3	38.45	-17.2
			16QAM	1	0	23.0	21.4	38.45	-17.1
				1	2	23.1	21.5	38.45	-17.0
				1	5	23.1	21.4	38.45	-17.0
				3	0	23.1	21.4	38.45	-17.0
				3	1	23.1	21.5	38.45	-17.0
				3	2	23.1	21.5	38.45	-17.0
				6	0	22.1	20.5	38.45	-18.0
1.4	20643	848.3	QPSK	1	0	23.9	22.3	38.45	-16.2
				1	2	23.9	22.2	38.45	-16.2
				1	5	23.6	21.9	38.45	-16.5
				3	0	23.9	22.2	38.45	-16.2
				3	1	23.9	22.2	38.45	-16.2
				3	2	23.8	22.1	38.45	-16.3
				6	0	22.9	21.2	38.45	-17.2
			16QAM	1	0	23.2	21.6	38.45	-16.9
				1	2	23.2	21.6	38.45	-16.9
				1	5	23.0	21.4	38.45	-17.1
				3	0	23.2	21.5	38.45	-16.9
				3	1	23.1	21.5	38.45	-17.0
				3	2	23.0	21.4	38.45	-17.1
				6	0	21.9	20.2	38.45	-18.2

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Antenna Gain (dBi)		0.51							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	20415	825.5	QPSK	1	0	24.0	22.4	38.45	-16.1
				1	7	23.9	22.3	38.45	-16.2
				1	14	23.9	22.3	38.45	-16.2
				8	0	23.0	21.3	38.45	-17.1
				8	4	23.0	21.3	38.45	-17.1
				8	7	23.0	21.4	38.45	-17.1
				15	0	23.0	21.3	38.45	-17.1
			16QAM	1	0	23.0	21.4	38.45	-17.1
				1	7	23.1	21.4	38.45	-17.0
				1	14	22.9	21.3	38.45	-17.2
				8	0	22.2	20.5	38.45	-17.9
				8	4	22.2	20.5	38.45	-17.9
				8	7	22.2	20.5	38.45	-17.9
				15	0	21.9	20.3	38.45	-18.2
3.0	20525	836.5	QPSK	1	0	24.0	22.3	38.45	-16.1
				1	7	24.0	22.4	38.45	-16.1
				1	14	23.9	22.3	38.45	-16.2
				8	0	23.1	21.5	38.45	-17.0
				8	4	23.0	21.4	38.45	-17.1
				8	7	23.0	21.4	38.45	-17.1
				15	0	23.0	21.4	38.45	-17.1
			16QAM	1	0	22.9	21.3	38.45	-17.2
				1	7	23.0	21.3	38.45	-17.1
				1	14	22.8	21.2	38.45	-17.3
				8	0	22.2	20.5	38.45	-17.9
				8	4	22.1	20.5	38.45	-18.0
				8	7	22.1	20.5	38.45	-18.0
				15	0	22.1	20.4	38.45	-18.0
3.0	20635	847.5	QPSK	1	0	24.0	22.4	38.45	-16.1
				1	7	23.9	22.3	38.45	-16.2
				1	14	23.7	22.1	38.45	-16.4
				8	0	23.0	21.3	38.45	-17.1
				8	4	22.9	21.3	38.45	-17.2
				8	7	23.0	21.4	38.45	-17.1
				15	0	23.0	21.4	38.45	-17.1
			16QAM	1	0	23.4	21.7	38.45	-16.7
				1	7	23.3	21.7	38.45	-16.8
				1	14	23.1	21.5	38.45	-17.0
				8	0	21.9	20.3	38.45	-18.2
				8	4	21.9	20.3	38.45	-18.2
				8	7	21.9	20.3	38.45	-18.2
				15	0	22.1	20.4	38.45	-18.0

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Antenna Gain (dBi)		0.51							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	20425	826.5	QPSK	1	0	24.0	22.4	38.45	-16.1
				1	12	23.9	22.3	38.45	-16.2
				1	24	23.9	22.2	38.45	-16.2
				12	0	23.0	21.4	38.45	-17.1
				12	6	23.0	21.4	38.45	-17.1
				12	11	22.9	21.3	38.45	-17.2
				25	0	23.0	21.3	38.45	-17.1
			16QAM	1	0	23.5	21.9	38.45	-16.6
				1	12	23.5	21.9	38.45	-16.6
				1	24	23.4	21.8	38.45	-16.7
				12	0	22.1	20.5	38.45	-18.0
				12	6	22.1	20.5	38.45	-18.0
				12	11	22.1	20.5	38.45	-18.0
				25	0	22.0	20.4	38.45	-18.1
5.0	20525	836.5	QPSK	1	0	23.9	22.3	38.45	-16.2
				1	12	23.8	22.2	38.45	-16.3
				1	24	24.0	22.3	38.45	-16.1
				12	0	22.9	21.3	38.45	-17.2
				12	6	22.9	21.3	38.45	-17.2
				12	11	22.9	21.2	38.45	-17.2
				25	0	22.9	21.2	38.45	-17.2
			16QAM	1	0	23.0	21.3	38.45	-17.1
				1	12	23.0	21.3	38.45	-17.1
				1	24	23.0	21.4	38.45	-17.1
				12	0	22.0	20.4	38.45	-18.1
				12	6	22.0	20.3	38.45	-18.1
				12	11	21.9	20.3	38.45	-18.2
				25	0	21.9	20.3	38.45	-18.2
5.0	20625	846.5	QPSK	1	0	23.9	22.3	38.45	-16.2
				1	12	23.8	22.2	38.45	-16.3
				1	24	23.6	21.9	38.45	-16.5
				12	0	22.8	21.2	38.45	-17.3
				12	6	22.9	21.3	38.45	-17.2
				12	11	22.9	21.2	38.45	-17.2
				25	0	22.9	21.3	38.45	-17.2
			16QAM	1	0	23.1	21.5	38.45	-17.0
				1	12	22.9	21.2	38.45	-17.2
				1	24	22.8	21.2	38.45	-17.3
				12	0	22.0	20.3	38.45	-18.1
				12	6	22.0	20.4	38.45	-18.1
				12	11	22.0	20.3	38.45	-18.1
				25	0	21.9	20.3	38.45	-18.2

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Antenna Gain (dBi)		0.51							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10.0	20450	829.0	QPSK	1	0	23.9	22.3	38.45	-16.2
				1	24	23.9	22.3	38.45	-16.2
				1	49	23.9	22.2	38.45	-16.2
				25	0	23.1	21.5	38.45	-17.0
				25	12	23.1	21.4	38.45	-17.0
				25	24	23.0	21.4	38.45	-17.1
				50	0	23.1	21.4	38.45	-17.0
			16QAM	1	0	23.4	21.8	38.45	-16.7
				1	24	23.4	21.7	38.45	-16.7
				1	49	23.3	21.6	38.45	-16.8
				25	0	22.1	20.5	38.45	-18.0
				25	12	22.1	20.4	38.45	-18.0
				25	24	22.1	20.4	38.45	-18.0
				50	0	22.1	20.4	38.45	-18.0
10.0	20525	836.5	QPSK	1	0	23.9	22.2	38.45	-16.2
				1	24	23.9	22.3	38.45	-16.2
				1	49	23.8	22.2	38.45	-16.3
				25	0	23.0	21.3	38.45	-17.1
				25	12	23.1	21.5	38.45	-17.0
				25	24	23.1	21.4	38.45	-17.0
				50	0	23.0	21.4	38.45	-17.1
			16QAM	1	0	23.0	21.4	38.45	-17.1
				1	24	23.0	21.3	38.45	-17.1
				1	49	22.9	21.3	38.45	-17.2
				25	0	22.0	20.4	38.45	-18.1
				25	12	22.1	20.5	38.45	-18.0
				25	24	22.1	20.5	38.45	-18.0
				50	0	22.0	20.4	38.45	-18.1
10.0	20600	844.0	QPSK	1	0	24.0	22.3	38.45	-16.1
				1	24	23.9	22.3	38.45	-16.2
				1	49	23.9	22.2	38.45	-16.2
				25	0	23.0	21.4	38.45	-17.1
				25	12	23.2	21.5	38.45	-16.9
				25	24	23.1	21.4	38.45	-17.0
				50	0	23.2	21.5	38.45	-16.9
			16QAM	1	0	23.0	21.4	38.45	-17.1
				1	24	22.9	21.3	38.45	-17.2
				1	49	22.8	21.1	38.45	-17.3
				25	0	22.1	20.5	38.45	-18.0
				25	12	22.2	20.5	38.45	-17.9
				25	24	22.1	20.5	38.45	-18.0
				50	0	22.2	20.5	38.45	-17.9

7.2.4. LTE BAND 7

ID:	43575	Date:	12/1/2016
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OUTPUT POWER FOR LTE BAND 7 (5.0 MHZ)

Antenna Gain (dBi)		0.35							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5.0	20775	2502.5	QPSK	1	0	23.4	23.8	33.0	-9.2
				1	12	23.4	23.7	33.0	-9.3
				1	24	23.4	23.7	33.0	-9.3
				12	0	22.4	22.7	33.0	-10.3
				12	6	22.3	22.6	33.0	-10.4
				12	11	22.3	22.7	33.0	-10.3
				25	0	22.2	22.6	33.0	-10.5
			16QAM	1	0	22.5	22.8	33.0	-10.2
				1	12	22.4	22.8	33.0	-10.3
				1	24	22.4	22.8	33.0	-10.2
				12	0	21.4	21.7	33.0	-11.3
				12	6	21.3	21.7	33.0	-11.3
				12	11	21.4	21.7	33.0	-11.3
				25	0	21.3	21.6	33.0	-11.4
5.0	21100	2535.0	QPSK	1	0	23.3	23.6	33.0	-9.4
				1	12	23.2	23.5	33.0	-9.5
				1	24	23.1	23.5	33.0	-9.5
				12	0	22.2	22.6	33.0	-10.4
				12	6	22.2	22.6	33.0	-10.5
				12	11	22.3	22.6	33.0	-10.4
				25	0	22.2	22.6	33.0	-10.5
			16QAM	1	0	22.9	23.2	33.0	-9.8
				1	12	22.7	23.1	33.0	-9.9
				1	24	22.6	23.0	33.0	-10.0
				12	0	21.5	21.8	33.0	-11.2
				12	6	21.4	21.8	33.0	-11.3
				12	11	21.4	21.8	33.0	-11.2
				25	0	21.3	21.7	33.0	-11.4
5.0	21425	2567.5	QPSK	1	0	23.5	23.8	33.0	-9.2
				1	12	23.3	23.6	33.0	-9.4
				1	24	23.4	23.7	33.0	-9.3
				12	0	22.5	22.8	33.0	-10.2
				12	6	22.5	22.8	33.0	-10.2
				12	11	22.5	22.8	33.0	-10.2
				25	0	22.4	22.8	33.0	-10.3
			16QAM	1	0	22.6	23.0	33.0	-10.1
				1	12	22.5	22.8	33.0	-10.2
				1	24	22.5	22.9	33.0	-10.2
				12	0	21.6	21.9	33.0	-11.1
				12	6	21.6	21.9	33.0	-11.1
				12	11	21.6	21.9	33.0	-11.1
				25	0	21.5	21.9	33.0	-11.1

OUTPUT POWER FOR LTE BAND 7 (10.0 MHZ)

Antenna Gain (dBi)		0.35							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10.0	20800	2505.0	QPSK	1	0	23.4	23.7	33.0	-9.3
				1	24	23.2	23.5	33.0	-9.5
				1	49	23.2	23.5	33.0	-9.5
				25	0	22.2	22.6	33.0	-10.5
				25	12	22.2	22.6	33.0	-10.4
				25	24	22.1	22.5	33.0	-10.6
				50	0	22.3	22.6	33.0	-10.4
			16QAM	1	0	22.2	22.5	33.0	-10.5
				1	24	22.1	22.5	33.0	-10.6
				1	49	22.0	22.4	33.0	-10.7
				25	0	21.2	21.6	33.0	-11.4
				25	12	21.2	21.6	33.0	-11.4
				25	24	21.1	21.5	33.0	-11.5
				50	0	21.2	21.6	33.0	-11.5
10.0	21100	2535.0	QPSK	1	0	23.1	23.5	33.0	-9.6
				1	24	23.0	23.4	33.0	-9.7
				1	49	22.9	23.3	33.0	-9.8
				25	0	22.2	22.6	33.0	-10.5
				25	12	22.1	22.4	33.0	-10.6
				25	24	22.0	22.4	33.0	-10.7
				50	0	22.1	22.5	33.0	-10.6
			16QAM	1	0	22.6	23.0	33.0	-10.1
				1	24	22.4	22.7	33.0	-10.3
				1	49	22.3	22.6	33.0	-10.4
				25	0	21.2	21.5	33.0	-11.5
				25	12	21.2	21.5	33.0	-11.5
				25	24	21.1	21.5	33.0	-11.6
				50	0	21.1	21.5	33.0	-11.5
10.0	21400	2565.0	QPSK	1	0	23.5	23.9	33.0	-9.2
				1	24	23.3	23.7	33.0	-9.3
				1	49	23.2	23.5	33.0	-9.5
				25	0	22.4	22.8	33.0	-10.2
				25	12	22.4	22.8	33.0	-10.3
				25	24	22.3	22.7	33.0	-10.3
				50	0	22.4	22.7	33.0	-10.3
			16QAM	1	0	22.5	22.8	33.0	-10.2
				1	24	22.3	22.7	33.0	-10.3
				1	49	22.2	22.6	33.0	-10.5
				25	0	21.5	21.8	33.0	-11.2
				25	12	21.4	21.8	33.0	-11.2
				25	24	21.4	21.8	33.0	-11.3
				50	0	21.4	21.7	33.0	-11.3

OUTPUT POWER FOR LTE BAND 7 (15.0 MHZ)

Antenna Gain (dBi)		0.35							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15.0	20825	2507.5	QPSK	1	0	23.5	23.8	33.0	-9.2
				1	37	23.1	23.4	33.0	-9.6
				1	74	23.1	23.4	33.0	-9.6
				36	0	22.4	22.7	33.0	-10.3
				36	16	22.4	22.7	33.0	-10.3
				36	35	22.3	22.6	33.0	-10.4
				75	0	22.3	22.7	33.0	-10.3
			16-QAM	1	0	22.8	23.1	33.0	-9.9
				1	37	22.7	23.1	33.0	-10.0
				1	74	22.4	22.7	33.0	-10.3
				36	0	21.4	21.7	33.0	-11.3
				36	16	21.4	21.7	33.0	-11.3
				36	35	21.3	21.6	33.0	-11.4
				75	0	21.4	21.7	33.0	-11.3
15.0	21100	2535.0	QPSK	1	0	23.4	23.8	33.0	-9.3
				1	37	23.0	23.4	33.0	-9.6
				1	74	23.0	23.4	33.0	-9.7
				36	0	22.4	22.7	33.0	-10.3
				36	16	22.2	22.6	33.0	-10.4
				36	35	22.1	22.5	33.0	-10.6
				75	0	22.2	22.6	33.0	-10.5
			16-QAM	1	0	22.7	23.0	33.0	-10.0
				1	37	22.5	22.8	33.0	-10.2
				1	74	22.4	22.7	33.0	-10.3
				36	0	21.3	21.7	33.0	-11.3
				36	16	21.2	21.5	33.0	-11.5
				36	35	21.2	21.5	33.0	-11.5
				75	0	21.3	21.6	33.0	-11.4
15.0	21375	2562.5	QPSK	1	0	23.3	23.7	33.0	-9.4
				1	37	23.5	23.8	33.0	-9.2
				1	74	23.1	23.5	33.0	-9.5
				36	0	22.4	22.7	33.0	-10.3
				36	16	22.4	22.8	33.0	-10.2
				36	35	22.3	22.6	33.0	-10.4
				75	0	22.4	22.7	33.0	-10.3
			16-QAM	1	0	22.2	22.5	33.0	-10.5
				1	37	22.2	22.6	33.0	-10.5
				1	74	22.0	22.3	33.0	-10.7
				36	0	21.3	21.7	33.0	-11.3
				36	16	21.5	21.8	33.0	-11.2
				36	35	21.4	21.7	33.0	-11.3
				75	0	21.4	21.7	33.0	-11.3

OUTPUT POWER FOR LTE BAND 7 (20.0 MHZ)

Antenna Gain (dBi)		0.35							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20.0	20850	2510.0	QPSK	1	0	23.5	23.8	33.0	-9.2
				1	49	23.3	23.7	33.0	-9.4
				1	99	23.0	23.3	33.0	-9.7
				50	0	22.4	22.7	33.0	-10.3
				50	24	22.3	22.7	33.0	-10.4
				50	49	22.1	22.5	33.0	-10.5
				100	0	22.3	22.6	33.0	-10.4
			16-QAM	1	0	22.8	23.2	33.0	-9.8
				1	49	22.7	23.0	33.0	-10.0
				1	99	22.4	22.8	33.0	-10.3
				50	0	21.3	21.7	33.0	-11.3
				50	24	21.3	21.7	33.0	-11.4
				50	49	21.1	21.5	33.0	-11.5
				100	0	21.3	21.7	33.0	-11.4
20.0	21100	2535.0	QPSK	1	0	23.4	23.8	33.0	-9.2
				1	49	23.2	23.5	33.0	-9.5
				1	99	23.0	23.4	33.0	-9.7
				50	0	22.3	22.7	33.0	-10.3
				50	24	22.2	22.6	33.0	-10.5
				50	49	22.1	22.4	33.0	-10.6
				100	0	22.2	22.5	33.0	-10.5
			16-QAM	1	0	22.9	23.3	33.0	-9.7
				1	49	22.7	23.1	33.0	-9.9
				1	99	22.5	22.9	33.0	-10.2
				50	0	21.4	21.7	33.0	-11.3
				50	24	21.3	21.6	33.0	-11.4
				50	49	21.2	21.5	33.0	-11.5
				100	0	21.3	21.7	33.0	-11.4
20.0	21350	2560.0	QPSK	1	0	23.5	23.8	33.0	-9.2
				1	49	23.3	23.6	33.0	-9.4
				1	99	23.2	23.5	33.0	-9.5
				50	0	22.4	22.7	33.0	-10.3
				50	24	22.3	22.7	33.0	-10.4
				50	49	22.3	22.6	33.0	-10.4
				100	0	22.3	22.7	33.0	-10.4
			16-QAM	1	0	22.9	23.3	33.0	-9.8
				1	49	22.6	23.0	33.0	-10.0
				1	99	22.5	22.8	33.0	-10.2
				50	0	21.4	21.7	33.0	-11.3
				50	24	21.3	21.7	33.0	-11.4
				50	49	21.3	21.7	33.0	-11.4
				100	0	21.3	21.6	33.0	-11.4

7.2.5. LTE BAND 12

ID:	43575	Date:	12/1/2016
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OUTPUT POWER FOR LTE BAND 12 (1.4MHZz)

Antenna Gain (dBi)		0.87							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.7	21.4	34.77	-13.3
				1	2	22.6	21.3	34.77	-13.4
				1	5	22.5	21.2	34.77	-13.5
				3	0	22.6	21.4	34.77	-13.4
				3	1	22.5	21.2	34.77	-13.5
				3	2	22.6	21.3	34.77	-13.5
				6	0	21.5	20.2	34.77	-14.6
			16QAM	1	0	21.8	20.5	34.77	-14.3
				1	2	21.6	20.4	34.77	-14.4
				1	5	21.6	20.3	34.77	-14.5
				3	0	21.7	20.4	34.77	-14.4
				3	1	21.8	20.5	34.77	-14.3
				3	2	21.6	20.3	34.77	-14.4
				6	0	20.7	19.4	34.77	-15.3
1.4	23095	707.5	QPSK	1	0	22.3	21.1	34.77	-13.7
				1	2	22.4	21.1	34.77	-13.7
				1	5	22.4	21.1	34.77	-13.7
				3	0	22.4	21.2	34.77	-13.6
				3	1	22.5	21.2	34.77	-13.6
				3	2	22.4	21.1	34.77	-13.6
				6	0	21.4	20.1	34.77	-14.6
			16QAM	1	0	21.5	20.2	34.77	-14.5
				1	2	21.5	20.3	34.77	-14.5
				1	5	21.5	20.2	34.77	-14.5
				3	0	21.5	20.2	34.77	-14.6
				3	1	21.5	20.2	34.77	-14.5
				3	2	21.5	20.2	34.77	-14.6
				6	0	20.5	19.3	34.77	-15.5
1.4	23173	715.3	QPSK	1	0	22.3	21.1	34.77	-13.7
				1	2	22.4	21.1	34.77	-13.7
				1	5	22.3	21.0	34.77	-13.7
				3	0	22.4	21.2	34.77	-13.6
				3	1	22.5	21.2	34.77	-13.6
				3	2	22.5	21.2	34.77	-13.6
				6	0	21.3	20.1	34.77	-14.7
			16QAM	1	0	21.7	20.4	34.77	-14.4
				1	2	21.8	20.5	34.77	-14.3
				1	5	21.7	20.4	34.77	-14.4
				3	0	21.5	20.2	34.77	-14.5
				3	1	21.6	20.3	34.77	-14.5
				3	2	21.5	20.3	34.77	-14.5
				6	0	20.2	19.0	34.77	-15.8

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Antenna Gain (dBi)		0.87							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3.0	23025	700.5	QPSK	1	0	22.9	21.6	34.77	-13.2
				1	7	22.8	21.5	34.77	-13.2
				1	14	22.7	21.5	34.77	-13.3
				8	0	21.8	20.5	34.77	-14.2
				8	4	21.7	20.5	34.77	-14.3
				8	7	21.8	20.5	34.77	-14.3
				15	0	21.7	20.5	34.77	-14.3
			16QAM	1	0	22.2	20.9	34.77	-13.9
				1	7	22.1	20.8	34.77	-13.9
				1	14	22.1	20.8	34.77	-14.0
				8	0	20.7	19.4	34.77	-15.4
				8	4	20.7	19.5	34.77	-15.3
				8	7	20.7	19.5	34.77	-15.3
				15	0	20.9	19.6	34.77	-15.2
3.0	23095	707.5	QPSK	1	0	22.6	21.4	34.77	-13.4
				1	7	22.8	21.5	34.77	-13.3
				1	14	22.6	21.3	34.77	-13.4
				8	0	21.6	20.4	34.77	-14.4
				8	4	21.6	20.3	34.77	-14.4
				8	7	21.6	20.4	34.77	-14.4
				15	0	21.6	20.3	34.77	-14.4
			16QAM	1	0	21.7	20.4	34.77	-14.4
				1	7	21.8	20.5	34.77	-14.3
				1	14	21.6	20.3	34.77	-14.5
				8	0	20.8	19.5	34.77	-15.3
				8	4	20.8	19.5	34.77	-15.2
				8	7	20.8	19.5	34.77	-15.2
				15	0	20.6	19.3	34.77	-15.5
3.0	23165	714.5	QPSK	1	0	22.6	21.3	34.77	-13.4
				1	7	22.6	21.3	34.77	-13.4
				1	14	22.5	21.3	34.77	-13.5
				8	0	21.6	20.3	34.77	-14.4
				8	4	21.6	20.3	34.77	-14.5
				8	7	21.6	20.3	34.77	-14.5
				15	0	21.6	20.3	34.77	-14.4
			16QAM	1	0	21.5	20.2	34.77	-14.6
				1	7	21.5	20.3	34.77	-14.5
				1	14	21.5	20.2	34.77	-14.6
				8	0	20.7	19.4	34.77	-15.3
				8	4	20.7	19.4	34.77	-15.4
				8	7	20.7	19.4	34.77	-15.4
				15	0	20.6	19.4	34.77	-15.4

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Antenna Gain (dBi)		0.87							
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5.0	23035	701.5	QPSK	1	0	22.9	21.6	34.77	-13.2
				1	12	22.7	21.4	34.77	-13.4
				1	24	22.7	21.4	34.77	-13.3
				12	0	21.7	20.5	34.77	-14.3
				12	6	21.8	20.5	34.77	-14.3
				12	11	21.7	20.4	34.77	-14.3
				25	0	21.7	20.4	34.77	-14.3
			16QAM	1	0	22.3	21.0	34.77	-13.8
				1	12	22.3	21.0	34.77	-13.8
				1	24	22.3	21.0	34.77	-13.8
				12	0	20.9	19.6	34.77	-15.1
				12	6	20.9	19.7	34.77	-15.1
				12	11	20.9	19.6	34.77	-15.1
				25	0	20.9	19.6	34.77	-15.2
5.0	23095	707.5	QPSK	1	0	22.7	21.5	34.77	-13.3
				1	12	22.7	21.4	34.77	-13.4
				1	24	22.7	21.4	34.77	-13.4
				12	0	21.6	20.3	34.77	-14.5
				12	6	21.7	20.4	34.77	-14.4
				12	11	21.5	20.3	34.77	-14.5
				25	0	21.6	20.3	34.77	-14.4
			16QAM	1	0	21.9	20.6	34.77	-14.2
				1	12	21.8	20.5	34.77	-14.3
				1	24	21.8	20.5	34.77	-14.3
				12	0	20.7	19.4	34.77	-15.4
				12	6	20.7	19.4	34.77	-15.3
				12	11	20.6	19.3	34.77	-15.4
				25	0	20.6	19.3	34.77	-15.4
5.0	23155	713.5	QPSK	1	0	22.7	21.4	34.77	-13.4
				1	12	22.6	21.4	34.77	-13.4
				1	24	22.6	21.4	34.77	-13.4
				12	0	21.6	20.3	34.77	-14.5
				12	6	21.6	20.3	34.77	-14.4
				12	11	21.6	20.3	34.77	-14.5
				25	0	21.6	20.3	34.77	-14.4
			16QAM	1	0	21.8	20.5	34.77	-14.2
				1	12	21.7	20.4	34.77	-14.3
				1	24	21.8	20.5	34.77	-14.3
				12	0	20.7	19.4	34.77	-15.4
				12	6	20.7	19.4	34.77	-15.3
				12	11	20.7	19.4	34.77	-15.4
				25	0	20.6	19.3	34.77	-15.4