



CERTIFICATION TEST REPORT

Report Number. : 12204524-E7V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CALIFORNIA 95014, U.S.A.

Model : A2102

FCC ID : BCG-E3235A

EUT Description : SMARTPHONE

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

Date Of Issue:
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Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888

Revision History



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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	8
2. TEST METHODOLOGY	9
3. FACILITIES AND ACCREDITATION	9
4. CALIBRATION AND UNCERTAINTY	9
4.1. MEASURING INSTRUMENT CALIBRATION.....	9
4.2. SAMPLE CALCULATION.....	9
4.3. MEASUREMENT UNCERTAINTY	9
5. EQUIPMENT UNDER TEST	10
5.1. DESCRIPTION OF EUT.....	10
5.2. MAXIMUM OUTPUT POWER.....	10
5.3. SOFTWARE AND FIRMWARE	17
5.4. MAXIMUM ANTENNA GAIN	17
5.5. WORST-CASE CONFIGURATION AND MODE	19
5.6. DESCRIPTION OF TEST SETUP	20
6. TEST AND MEASUREMENT EQUIPMENT.....	22
7. RF OUTPUT POWER VERIFICATION.....	23
7.1. Ant 1,Ant 2, Ant 3 AND Ant 4	25
7.1.1. LTE BAND 2.....	25
7.1.2. LTE BAND 5.....	28
7.1.3. LTE BAND 7.....	30
7.1.4. LTE BAND 12.....	32
7.1.5. LTE BAND 13.....	34
7.1.6. LTE BAND 14.....	35
7.1.7. LTE BAND 17.....	36
7.1.8. LTE BAND 25.....	37
7.1.9. LTE BAND 26 (FCC Part 90S)	40
7.1.10. LTE BAND 30	42
7.1.11. LTE BAND 41	43
7.1.12. LTE BAND 66	45
8. CONDUCTED TEST RESULTS	48
8.1. OCCUPIED BANDWIDTH.....	48

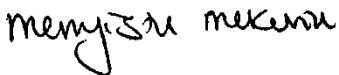
8.1.1.	LTE BAND 2.....	54
8.1.2.	LTE BAND 5.....	57
8.1.3.	LTE BAND 7.....	59
8.1.4.	LTE BAND 12.....	61
8.1.5.	LTE BAND 13.....	63
8.1.6.	LTE BAND 14.....	64
8.1.7.	LTE BAND 17.....	65
8.1.8.	LTE BAND 25.....	66
8.1.9.	LTE BAND 26 (FCC PART 90S)	69
8.1.10.	LTE BAND 30	73
8.1.11.	LTE BAND 41	74
8.1.12.	LTE BAND 66	76
8.2.	BAND EDGE AND EMISSION MASK	79
8.2.1.	LTE BAND 2 BANDEDGE	83
8.2.2.	LTE BAND 5 BANDEDGE	91
8.2.3.	LTE BAND 7 ADJACENT CHANNEL POWER	97
8.2.4.	LTE BAND 12 BANDEDGE	109
8.2.5.	LTE BAND 13 ADJACENT CHANNEL POWER	115
8.2.6.	LTE BAND 14 ADJACENT CHANNEL POWER	118
8.2.7.	LTE BAND 17 BANDEDGE	121
8.2.8.	LTE BAND 25 BANDEDGE	124
8.2.9.	LTE BAND 26 EMISSION MASK (FCC PART 90S)	132
8.2.10.	LTE BAND 30 ADJACENT CHANNEL POWER	137
8.2.11.	LTE BAND 41 ADJACENT CHANNEL POWER	140
8.2.12.	LTE BAND 66 BANDEDGE	152
8.3.	OUT OF BAND EMISSIONS	160
8.3.1.	LTE BAND 2.....	161
8.3.2.	LTE BAND 5.....	167
8.3.3.	LTE BAND 7.....	171
8.3.4.	LTE BAND 12.....	175
8.3.5.	LTE BAND 13.....	179
8.3.6.	LTE BAND 14.....	181
8.3.7.	LTE BAND 17.....	183
8.3.8.	LTE BAND 25.....	185
8.3.9.	LTE BAND 26 (FCC PART 90S)	191

8.3.10.	LTE BAND 30	195
8.3.11.	LTE BAND 41	198
8.3.12.	LTE BAND 66	202
8.4.	FREQUENCY STABILITY	208
8.4.1.	LTE BAND 2.....	209
8.4.2.	LTE BAND 5.....	209
8.4.3.	LTE BAND 7.....	210
8.4.4.	LTE BAND 12.....	210
8.4.5.	LTE BAND 13.....	211
8.4.6.	LTE BAND 14 (FCC)	211
8.4.7.	LTE BAND 17.....	212
8.4.8.	LTE BAND 25.....	212
8.4.9.	LTE BAND 26 (FCC PART 90).....	213
8.4.10.	LTE BAND 30	213
8.4.11.	LTE BAND 41	214
8.4.12.	LTE BAND 66	214
8.5.	PEAK-TO-AVERAGE POWER RATIO	215
8.5.1.	LTE BAND 2.....	216
8.5.2.	LTE BAND 5.....	218
8.5.3.	LTE BAND 7.....	220
8.5.4.	LTE BAND 12.....	222
8.5.5.	LTE BAND 13.....	224
8.5.6.	LTE BAND 14.....	225
8.5.7.	LTE BAND 17.....	226
8.5.8.	LTE BAND 25.....	227
8.5.9.	LTE BAND 26 (FCC PART 90S)	229
8.5.10.	LTE BAND 30	231
8.5.11.	LTE BAND 41	232
8.5.12.	LTE BAND 66	233
9.	RADIATED TEST RESULTS	236
9.1.	FIELD STRENGTH OF SPURIOUS RADIATION, ANT 1	238
9.1.1.	LTE BAND 2.....	238
9.1.2.	LTE BAND 5.....	238
9.1.3.	LTE BAND 7.....	239

9.1.4.	LTE BAND 12.....	240
9.1.5.	LTE BAND 13.....	240
9.1.6.	LTE BAND 14.....	241
9.1.7.	LTE BAND 17.....	241
9.1.8.	LTE BAND 25.....	242
9.1.9.	LTE BAND 26 (FCC PART 90S)	242
9.1.10.	LTE BAND 30	243
9.1.11.	LTE BAND 41	243
9.1.12.	LTE BAND 66	244
9.2.	FIELD STRENGTH OF SPURIOUS RADIATION, ANT 2	245
9.2.1.	LTE BAND 2.....	245
9.2.2.	LTE BAND 5.....	245
9.2.3.	LTE BAND 7.....	246
9.2.4.	LTE BAND 12.....	247
9.2.5.	LTE BAND 13.....	247
9.2.6.	LTE BAND 14.....	248
9.2.7.	LTE BAND 17.....	248
9.2.8.	LTE BAND 25.....	249
9.2.9.	LTE BAND 26 (FCC PART 90S)	249
9.2.10.	LTE BAND 30	250
9.2.11.	LTE BAND 41	250
9.2.12.	LTE BAND 66	251
9.3.	FIELD STRENGTH OF SPURIOUS RADIATION, ANT 3	252
9.3.1.	LTE BAND 2.....	252
9.3.2.	LTE BAND 7.....	252
9.3.3.	LTE BAND 25.....	253
9.3.4.	LTE BAND 30.....	253
9.3.5.	LTE BAND 41.....	254
9.3.6.	LTE BAND 66.....	254
9.4.	FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4.....	255
9.4.1.	LTE BAND 2.....	255
9.4.2.	LTE BAND 7.....	255
9.4.3.	LTE BAND 25.....	256
9.4.4.	LTE BAND 30.....	256
9.4.5.	LTE BAND 41.....	257

9.4.6.	LTE BAND 66.....	257
10.	SETUP PHOTOS.....	258

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CALIFORNIA 95014, U.S.A.		
Model	A2102		
FCC ID	BCG-E3235A		
EUT Description	SMARTPHONE		
Serial Number	C39WL005K3WR		
Date Tested	FEBRUARY 28, 2018 to JULY 27, 2018		
Applicable Standards	CFR47 PART 22H, 24E, 27, 90S AND 90R		
Test Results	COMPLIES		
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 (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.			
Approved & Released By:		Prepared By:	
			
Mengistu Mekuria Senior Test Engineer UL Verification Services Inc.		Lieu Nguyen Laboratory Engineer UL Verification Services Inc.	

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26:2015, FCC CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90S, and 90R, FCC KDB 971168 v03r01/ D02 v02r01, and FCC KDB 412172 D01 Determining ERP and EIRP v01r01.

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:22541-1)
☐ Chamber B (IC:2324B-2)	☒ Chamber E (IC:22541-2)
☐ Chamber C (IC:2324B-3)	☒ Chamber F (IC:22541-3)
	☒ Chamber G (IC:22541-4)
	☒ Chamber H (IC:22541-5)

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 [NVLAP Lab Search](#).

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:

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

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
Occupied Channel Bandwidth	±0.39 %
Temperature	±0.9 °C
Supply voltages	±0.45 %
Time	±0.02 %

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The Apple iPhone, is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, TD-SCDMA, CDMA, IEEE 802.11a/b/g/n/ac, Bluetooth, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either UICC based, electronic SIM (e-SIM), or second SIM is not present. The device has a built-in inductive charging receiver which is not user accessible. The rechargeable battery is not user accessible.

5.2. MAXIMUM OUTPUT POWER

ERP/EIRP LIMIT

\$2.1046, \$22.913, \$24.232, \$27.50, \$90.635 and \$90.541

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6
KDB 412172 D01 Determining ERP and EIRP v01r01

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

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.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

LTE BAND 2

Part 24 / RSS 133								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-1.30						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	25.0	23.70	0.234	1095.0	1M10G7W
	16QAM			24.3	23.00	0.200	1095.5	1M10D7W
	64QAM			23.0	21.70	0.148	1090.2	1M09D7W
3.0	QPSK	1851.5	1908.5	25.0	23.70	0.234	2708.3	2M71G7W
	16QAM			24.3	23.00	0.200	2707.3	2M71D7W
	64QAM			23.1	21.80	0.151	2692.0	2M69D7W
5.0	QPSK	1852.5	1907.5	25.0	23.70	0.234	4495.9	4M50G7W
	16QAM			24.3	23.00	0.200	4505.1	4M51D7W
	64QAM			23.1	21.80	0.151	4490.5	4M49D7W
10.0	QPSK	1855.0	1905.0	25.0	23.70	0.234	9005.7	9M01G7W
	16QAM			24.4	23.10	0.204	9012.9	9M01D7W
	64QAM			24.0	22.70	0.186	8940.9	8M94D7W
15.0	QPSK	1857.5	1902.5	25.0	23.70	0.234	13479.0	13M5G7W
	16QAM			24.3	23.00	0.200	13491.0	13M5D7W
	64QAM			23.0	21.70	0.148	13474.0	13M5D7W
20.0	QPSK	1860.0	1900.0	25.0	23.70	0.234	17976.0	18M0G7W
	16QAM			24.3	23.00	0.200	17967.0	18M0D7W
	64QAM			23.0	21.70	0.148	17981.0	18M0D7W

LTE BAND 5

Part 22H								
ERP Limit (W)		7.00						
Antenna Gain (dBi)		-6.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	824.7	848.3	25.5	17.25	0.053	1091.4	1M09G7W
	16QAM			24.9	16.65	0.046	1089.2	1M09D7W
	64QAM			23.7	15.45	0.035	1092.9	1M09D7W
3.0	QPSK	825.5	847.5	25.5	17.25	0.053	2706.8	2M71G7W
	16QAM			24.9	16.65	0.046	2670.6	2M67D7W
	64QAM			23.7	15.45	0.035	2708.7	2M71D7W
5.0	QPSK	826.5	846.5	25.5	17.25	0.053	4497.8	4M50G7W
	16QAM			24.9	16.65	0.046	4504.6	4M50D7W
	64QAM			23.8	15.55	0.036	4499.2	4M50D7W
10.0	QPSK	829.0	844.0	25.5	17.25	0.053	8977.1	8M98G7W
	16QAM			24.9	16.65	0.046	8984.5	8M98D7W
	64QAM			23.7	15.45	0.035	8990.6	8M99D7W

LTE BAND 7

Part 27 / RSS 199								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-4.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2502.5	2567.5	25.5	21.00	0.126	4504.2	4M50G7W
	16QAM			25.0	20.50	0.112	4503.5	4M50D7W
	64QAM			23.8	19.30	0.085	4501.3	4M50D7W
10.0	QPSK	2505.0	2565.0	25.5	21.00	0.126	9006.5	9M01G7W
	16QAM			24.9	20.40	0.110	9023.3	9M02D7W
	64QAM			23.7	19.20	0.083	9019.8	9M02D7W
15.0	QPSK	2507.5	2562.5	25.5	21.00	0.126	13487	13M5G7W
	16QAM			24.8	20.30	0.107	13507	13M5D7W
	64QAM			23.7	19.20	0.083	13504	13M5D7W
20.0	QPSK	2510.0	2560.0	25.5	21.00	0.126	17950	18M0G7W
	16QAM			25.0	20.50	0.112	17962	18M0D7W
	64QAM			23.7	19.20	0.083	17976	18M0D7W

LTE BAND 12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	699.7	715.3	25.5	17.35	0.054	1089.9	1M09G7W
	16QAM			24.9	16.75	0.047	1092.7	1M09D7W
	64QAM			23.4	15.25	0.033	1094.7	1M09D7W
3.0	QPSK	700.5	714.5	25.5	17.35	0.054	2710.4	2M71G7W
	16QAM			24.9	16.75	0.047	2705.9	2M71D7W
	64QAM			23.4	15.25	0.033	2709.7	2M71D7W
5.0	QPSK	701.5	713.5	25.5	17.35	0.054	4496.8	4M50G7W
	16QAM			24.9	16.75	0.047	4505.5	4M51D7W
	64QAM			23.6	15.45	0.035	4503.2	4M50D7W
10.0	QPSK	704.0	711.0	25.5	17.35	0.054	9021.9	9M02G7W
	16QAM			24.9	16.75	0.047	9030.7	9M03D7W
	64QAM			23.4	15.25	0.033	8992	8M99D7W

LTE BAND 13

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	779.5	784.5	25.5	16.95	0.050	4493.2	4M49G7W
	16QAM			25.0	16.45	0.044	4501.3	4M50D7W
	64QAM			23.3	14.75	0.030	4502.3	4M50D7W
10.0	QPSK	782.0	782.0	25.5	16.95	0.050	9007.7	9M01G7W
	16QAM			25.0	16.45	0.044	9004	9M00D7W
	64QAM			23.2	14.65	0.029	9007.1	9M01D7W

LTE BAND 14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	790.5	795.5	25.5	16.95	0.050	4501	4M50G7W
	16QAM			24.9	16.35	0.043	4505.5	4M51D7W
	64QAM			23.4	14.85	0.031	4509	4M51D7W
10.0	QPSK	793.0	793.0	25.5	16.95	0.050	8988	8M99G7W
	16QAM			24.9	16.35	0.043	8992.3	8M99D7W
	64QAM			23.1	14.55	0.029	8987.5	8M99D7W

LTE BAND 17 (FCC)

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	706.5	713.5	25.5	17.35	0.054	4497.7	4M50G7W
	16QAM			25.0	16.85	0.048	4503.6	4M50D7W
	64QAM			23.5	15.35	0.034	4495	4M50D7W
10.0	QPSK	709.0	711.0	25.5	17.35	0.054	9011.8	9M01G7W
	16QAM			24.9	16.75	0.047	9019.2	9M02D7W
	64QAM			23.3	15.15	0.033	8985.1	8M99D7W

LTE BAND 25

Part 24 / RSS 133								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-1.30						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	25.0	23.70	0.234	1095	1M10G7W
	16QAM			24.3	23.00	0.200	1089.8	1M09D7W
	64QAM			23.2	21.90	0.155	1092.4	1M09D7W
3.0	QPSK	1851.5	1913.5	25.0	23.70	0.234	2707.2	2M71G7W
	16QAM			24.1	22.80	0.191	2710.8	2M71D7W
	64QAM			23.2	21.90	0.155	2706.4	2M71D7W
5.0	QPSK	1852.5	1912.5	25.0	23.70	0.234	4503	4M50G7W
	16QAM			24.2	22.90	0.195	4509.5	4M51D7W
	64QAM			23.2	21.90	0.155	4500.1	4M50D7W
10.0	QPSK	1855.0	1910.0	25.0	23.70	0.234	9014.5	9M01G7W
	16QAM			24.2	22.90	0.195	9011.2	9M01D7W
	64QAM			23.3	22.00	0.158	9024.1	9M02D7W
15.0	QPSK	1857.5	1907.5	25.0	23.70	0.234	13509	13M5G7W
	16QAM			24.1	22.80	0.191	13502	13M5D7W
	64QAM			23.3	22.00	0.158	13495	13M5D7W
20.0	QPSK	1860.0	1905.0	25.0	23.70	0.234	17991	18M0G7W
	16QAM			24.3	23.00	0.200	17958	18M0D7W
	64QAM			22.6	21.30	0.135	17977	18M0D7W

LTE BAND 26 (FCC Part 90S)

Part 90S								
ERP Limit (W)		100.00						
Antenna Gain (dBi)		-6.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.5	17.25	0.053	1099.5	1M10G7W
	16QAM			24.9	16.65	0.046	1096.6	1M10D7W
	64QAM			24.7	16.45	0.044	1099.6	1M10D7W
3.0	QPSK	815.5	822.5	25.5	17.25	0.053	2710	2M71G7W
	16QAM			24.9	16.65	0.046	2706.6	2M71D7W
	64QAM			23.8	15.55	0.036	2708.3	2M71D7W
5.0	QPSK	816.5	821.5	25.5	17.25	0.053	4507.6	4M51G7W
	16QAM			24.9	16.65	0.046	4497.5	4M50D7W
	64QAM			23.7	15.45	0.035	4499.8	4M50D7W
10.0	QPSK	819.0	819.0	25.5	17.25	0.053	8985.3	8M99G7W
	16QAM			24.8	16.55	0.045	8984	8M98D7W
	64QAM			23.8	15.55	0.036	8980.8	8M98D7W

LTE BAND 30

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)		-2.30						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	23.5	21.20	0.132	4503.5	4M50G7W
	16QAM			22.9	20.60	0.115	4499.3	4M50D7W
	64QAM			21.8	19.50	0.089	4502.1	4M50D7W
10.0	QPSK	2310.0	2310.0	23.5	21.20	0.132	8989.2	8M99G7W
	16QAM			23.0	20.70	0.117	8990.4	8M99D7W
	64QAM			21.8	19.50	0.089	8968	8M97D7W

LTE BAND 41

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-4.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2498.5	2687.5	27.0	22.50	0.178	4498.9	4M50G7W
	16QAM			26.1	21.60	0.145	4483.7	4M48D7W
	64QAM			25.0	20.50	0.112	4494.6	4M49D7W
10.0	QPSK	2501.0	2685.0	27.0	22.50	0.178	9015.7	9M02G7W
	16QAM			26.1	21.60	0.145	8987.2	8M99D7W
	64QAM			25.0	20.50	0.112	8986.5	8M99D7W
15.0	QPSK	2503.5	2682.5	27.0	22.50	0.178	13445	13M4G7W
	16QAM			26.1	21.60	0.145	13455	13M5D7W
	64QAM			25.2	20.70	0.117	13472	13M5D7W
20.0	QPSK	2506.0	2680.0	27.0	22.50	0.178	17954	18M0G7W
	16QAM			26.2	21.70	0.148	17938	17M9D7W
	64QAM			25.1	20.60	0.115	17951	18M0D7W

LTE BAND 66

Part 27 / RSS 139								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-2.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	24.7	22.60	0.182	1090.2	1M09G7W
	16QAM			24.0	21.90	0.155	1087.4	1M09D7W
	64QAM			22.7	20.60	0.115	1088.9	1M09D7W
3.0	QPSK	1711.5	1778.5	24.7	22.60	0.182	2699.2	2M70G7W
	16QAM			24.0	21.90	0.155	2689.5	2M69D7W
	64QAM			22.7	20.60	0.115	2694.5	2M69D7W
5.0	QPSK	1712.5	1777.5	24.8	22.70	0.186	4502.4	4M50G7W
	16QAM			24.1	22.00	0.158	4498.9	4M50D7W
	64QAM			23.0	20.90	0.123	4497	4M50D7W
10.0	QPSK	1715.0	1775.0	24.9	22.80	0.191	9009.7	9M01G7W
	16QAM			24.2	22.10	0.162	9012.8	9M01D7W
	64QAM			22.9	20.80	0.120	8997.8	9M00D7W
15.0	QPSK	1717.5	1772.5	24.9	22.80	0.191	13477	13M5G7W
	16QAM			24.1	22.00	0.158	13462	13M5D7W
	64QAM			23.1	21.00	0.126	13485	13M5D7W
20.0	QPSK	1720.0	1770.0	25.0	22.90	0.195	17937	17M9G7W
	16QAM			24.2	22.10	0.162	17974	18M0D7W
	64QAM			22.9	20.80	0.120	17936	17M9D7W

5.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 00.28.02.

5.4. MAXIMUM ANTENNA GAIN

Please see table below:

Frequency (MHz)	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Ant 3 Gain (dBi)	Ant 4 Gain (dBi)
660	-6.9	-6.0	N/A	N/A
670	-6.5	-6.4	N/A	N/A
680	-6.6	-6.5	N/A	N/A
690	-6.4	-6.6	N/A	N/A
700	-6.4	-6.3	N/A	N/A
710	-6.2	-6.3	N/A	N/A
720	-6.0	-6.8	N/A	N/A
770	-7.0	-6.7	N/A	N/A
780	-6.8	-6.2	N/A	N/A
790	-6.4	-5.8	N/A	N/A
810	-6.7	-6.7	N/A	N/A
820	-6.5	-5.6	N/A	N/A
830	-6.1	-6.2	N/A	N/A
840	-6.2	-6.9	N/A	N/A
850	-6.5	-7.1	N/A	N/A
860	-6.8	-7.3	N/A	N/A
1700	-6.0	-4.6	-3.7	-6.8
1710	-5.7	-4.1	-3.4	-6.4
1720	-5.6	-4.1	-3.2	-6.2
1730	-5.5	-4.1	-3.1	-6.2
1740	-5.4	-4.4	-2.8	-6.3
1750	-5.2	-4.3	-2.6	-6.1
1760	-5.2	-4.3	-2.5	-5.8
1770	-5.0	-4.2	-2.3	-5.7
1780	-5.0	-4.2	-2.1	-5.7
1840	-5.7	-3.3	N/A	-5.3
1850	-5.8	-2.9	N/A	-5.4
1860	-6.0	-2.9	N/A	-5.3
1870	-6.3	-2.4	-1.8	-5.2
1880	-6.2	-2.4	-1.9	-5.1
1890	-6.3	-2.0	-1.8	-5.2
1900	-6.2	-2.0	-1.8	-5.0
1910	-6.2	-1.9	-1.3	-4.9
1920	-6.2	-1.9	-1.4	-4.9
2300	-4.6	-3.3	-2.3	N/A
2320	-4.9	-4.1	-3.1	N/A
2500	-5.0	-5.0	-5.0	-2.8
2520	-5.3	-4.9	-5.1	-2.9
2540	-5.2	-5.0	-4.3	-3.0
2560	-4.5	-5.0	-4.0	-2.8
2580	-4.6	-5.0	-4.2	-2.4
2600	-5.0	-5.5	-4.4	-2.5
2620	-5.0	-5.7	-4.5	-2.5

2640	-4.8	-6.0	-4.6	-2.4
2660	-4.8	-6.3	-4.6	-2.3
2680	-4.8	-6.5	-4.9	-2.3
2700	-4.5	-6.3	-5.3	-1.9

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports LTE Bands of:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 38, Band 41, and Band 66.

LTE Band 4 (1710-1755MHz) is covered by LTE Band 66 because it is a subset of LTE band 66 and they have same output power.

FCC rule Part 22.905 of LTE Band 26 (824-849MHz) is covered by LTE Band 5 of same rule since they have the same output power and supported bandwidths.

According to the Tune-up procedure, power class 2 (PC2) used to measure LTE band 41 powers.

The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK and 16QAM results were worst case. All testing was performed using QPSK and 16QAM modulations to represent the worst case. Tests were performed on the conducted test at LAT 1 antenna as worst case since it has higher output powers.

The EUT was investigated in three orthogonal orientations X/Y/Z on Ant1/Ant2/Ant3/Ant4. It was determined that Y (Landscape) orientation was the worst-case orientation for cell bands; Z (Portrait) orientation was the worst-case orientation for pcs bands; Y (Landscape) orientation was the worst orientation for Band 7, 30, 38 and 41 without AC/DC adapter.

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz within 20dB of the limit.

For simultaneous transmission of multiple channels in the 2.4GHz and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable emission was found.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop AC/DC adapter	Delta Electronic	A1343	ADP-85EBT V85
Laptop	Apple	MacBook Pro	73008ACB7XJ

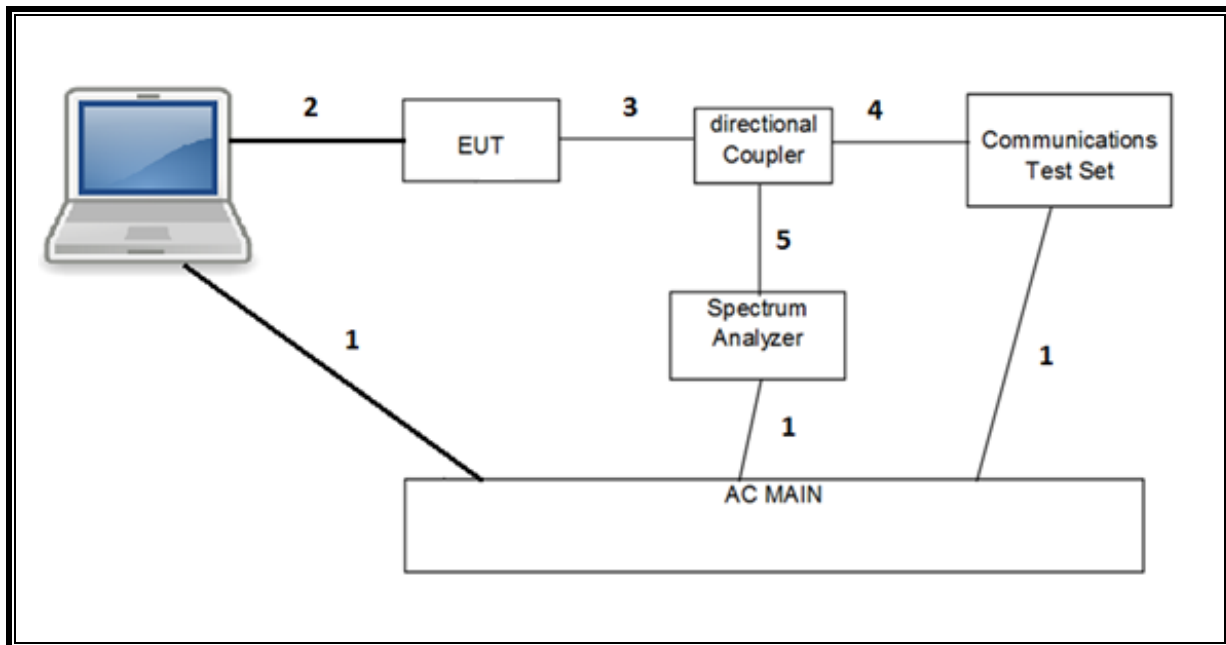
I/O CABLES (RF Conducted Test)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2.0m	N/A
2	USB	1	DC	Un-shielded	1.0m	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6m	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2m	N/A
5	RF In/Out	1	Barrel	N/A	N/A	N/A

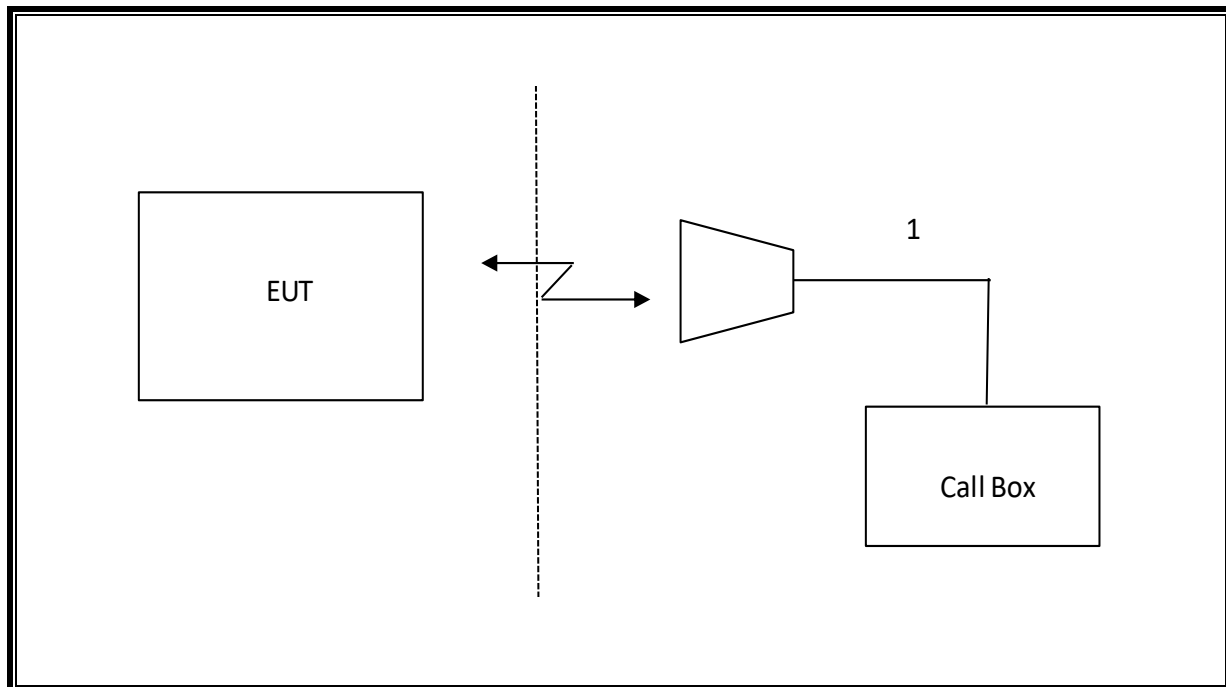
I/O CABLES (RF Radiated Test)

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	5.0m	N/A

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	T712	02/08/2019
*Antenna, Broadband Hybrid, 30MHz	Sunol Sciences	JB3	T900	05/31/2018
*Antenna, Broadband Hybrid, 30MHz	Sunol Sciences	JB3	T899	06/15/2018
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-42	T741	12/30/2018
Amplifier, 1 to 8GHz	Miteq	AMF-4D-01000800-30-29P	T1169	12/30/2018
*Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T285	06/24/2018
Spectrum Analyzer, PXA 3Hz to	Keysight	N9030A	T906	02/16/2019
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T712	02/08/2019
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T119	04/03/2019
*Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T407	04/14/2018
*Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-42	T491	06/01/2018
*Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T834	06/01/2018
Spectrum Analyzer, PXA 3Hz to	Keysight	N9030A-544	T341	11/12/2018
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T119	04/03/2019
Filter, HPF 4GHz	MICROTRONICS	HPM13351	T1239	08/11/2018
Power Meter, P-series single channel	Keysight	N1912A	T1272	05/1/2019
Antenna, Active Loop 9KHz to 30MHz	EMCO	6502	T35	12/15/2018
Power Sensor	Keysight	N1921A	T1225	04/10/2019
Directional Coupler	KRYTAR	152610	T1537	04/27/2019
Directional Coupler	KRYTAR	152613	T1536	04/27/2019
Wideband Communication Test Set,	Rohde &	CMW500	T979	02/17/2019
Wideband Communication Test Set,	Rohde &	CMW500	T959	02/17/2019
*Wideband Communication Test Set,	Rohde &	CMW500	T956	06/22/2018
Wideband Communication Test Set,	Rohde &	CMW500	T979	02/17/2019
Chamber, Environmental	Cincinnati Sub	ZPHS-8-3.5-SCT/WC	T754	09/05/2018

Note: *Testing is completed before equipment expiration date

7. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted average power is 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 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{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
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

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 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
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.

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

RESULTS

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

7.1. Ant 1,Ant 2, Ant 3 AND Ant 4

7.1.1. LTE BAND 2

ID:	10646	Date:	7/25/18
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OUTPUT POWER FOR LTE BAND 2 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18607	18900	19193	18607	18900	19193	18607	18900	19193	18607	18900	19193
				1850.7	1880.0	1909.3	1850.7	1880.0	1909.3	1850.7	1880.0	1909.3	1850.7	1880.0	1909.3
1.4	QPSK	1	0	25.5	25.3	25.4	20.4	20.5	20.4	25.0	24.9	24.8	21.1	21.0	20.9
		1	2	25.5	25.3	25.4	20.4	20.5	20.4	25.0	24.8	24.9	21.1	21.0	20.8
		1	5	25.5	25.3	25.4	20.4	20.5	20.4	25.0	24.9	24.9	21.1	21.0	20.9
		3	0	25.5	25.3	25.4	20.3	20.5	20.4	25.0	24.8	24.8	21.2	21.1	21.1
		3	1	25.5	25.3	25.4	20.3	20.5	20.4	25.0	24.8	24.8	21.2	21.2	21.1
		3	2	25.5	25.3	25.4	20.3	20.4	20.4	24.9	24.8	24.8	21.2	21.2	21.1
	16QAM	6	0	24.5	24.3	24.3	19.3	19.4	19.4	23.9	23.8	23.8	20.3	20.2	20.1
		1	0	24.9	24.5	24.6	19.7	19.9	19.7	24.3	24.1	24.0	20.3	20.1	20.0
		1	2	24.9	24.5	24.6	19.6	19.9	19.6	24.3	24.0	24.2	20.2	20.0	20.2
		1	5	24.9	24.5	24.7	19.7	19.9	19.7	24.3	24.1	24.2	20.3	20.0	20.1
		3	0	24.6	24.4	24.5	19.5	19.7	19.5	24.1	24.0	24.0	20.2	20.0	20.0
		3	1	24.6	24.4	24.5	19.5	19.7	19.5	24.1	24.0	24.0	20.2	20.0	20.0
	64QAM	3	2	24.6	24.4	24.5	19.5	19.6	19.5	24.1	24.0	24.0	20.2	20.1	19.9
		6	0	23.5	23.4	23.4	18.4	18.5	18.5	23.0	22.9	22.9	19.2	19.1	19.0
		1	0	23.6	23.3	23.5	18.4	18.4	18.5	22.9	22.7	22.7	19.4	19.0	19.3
		1	2	23.6	23.2	23.5	18.3	18.5	18.5	22.9	22.7	22.8	19.3	18.9	19.3
		1	5	23.6	23.2	23.6	18.3	18.4	18.5	23.0	22.7	22.8	19.3	18.9	19.3
		3	0	23.5	23.1	23.4	18.2	18.3	18.4	22.9	22.8	22.7	19.4	19.1	19.3
	64QAM	3	1	23.5	23.1	23.4	18.2	18.3	18.4	22.9	22.8	22.8	19.3	19.0	19.3
		3	2	23.5	23.1	23.4	18.2	18.3	18.4	23.0	22.8	22.8	19.3	19.0	19.3
		6	0	22.5	22.0	22.3	17.2	17.3	17.3	22.0	21.8	21.7	18.5	18.0	18.3

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18615	18900	19185	18615	18900	19185	18615	18900	19185	18615	18900	19185
				1851.5	1880.0	1908.5	1851.5	1880.0	1908.5	1851.5	1880.0	1908.5	1851.5	1880.0	1908.5
3.0	QPSK	1	0	25.5	25.2	25.4	20.4	20.5	20.3	24.9	24.9	24.8	21.1	21.1	20.9
		1	7	25.5	25.3	25.4	20.3	20.5	20.5	25.0	24.9	24.8	21.2	21.1	21.0
		1	14	25.4	25.2	25.4	20.2	20.5	20.4	25.0	24.9	24.8	21.2	21.1	21.0
		8	0	24.5	24.3	24.3	19.3	19.5	19.4	24.0	23.8	23.8	20.5	20.4	20.2
		8	4	24.5	24.3	24.3	19.3	19.5	19.4	24.0	23.8	23.7	20.5	20.4	20.2
		8	7	24.5	24.3	24.3	19.3	19.4	19.4	24.0	23.8	23.7	20.5	20.4	20.2
		15	0	24.5	24.3	24.3	19.3	19.4	19.4	24.0	23.8	23.7	20.6	20.4	20.3
	16QAM	1	0	24.8	24.6	24.6	19.7	19.8	19.7	24.3	24.2	24.0	20.2	20.1	20.0
		1	7	24.8	24.6	24.7	19.7	19.8	19.8	24.3	24.2	24.1	20.4	20.4	20.1
		1	14	24.7	24.5	24.5	19.6	19.6	19.8	24.3	24.1	24.2	20.3	20.2	20.0
		8	0	23.5	23.4	23.4	18.4	18.5	18.4	23.0	22.9	22.8	19.4	19.2	19.1
		8	4	23.5	23.3	23.3	18.3	18.5	18.4	23.0	22.9	22.8	19.4	19.3	19.1
		8	7	23.5	23.3	23.3	18.4	18.5	18.4	23.0	22.9	22.8	19.4	19.3	19.1
		15	0	23.5	23.3	23.3	18.3	18.5	18.4	23.0	22.9	22.8	19.4	19.3	19.2
	64QAM	1	0	23.7	23.1	23.3	18.4	18.3	18.4	23.0	22.8	22.5	19.6	19.0	19.2
		1	7	23.7	23.2	23.4	18.4	18.4	18.4	23.1	22.7	22.4	19.5	19.1	19.1
		1	14	23.6	23.2	23.5	18.3	18.3	18.5	23.0	22.8	22.6	19.5	19.0	19.2
		8	0	22.5	22.1	22.2	17.2	17.3	17.2	22.1	21.8	21.6	18.6	18.2	18.3
		8	4	22.5	22.1	22.2	17.2	17.3	17.3	22.1	21.8	21.7	18.6	18.2	18.3
		8	7	22.5	22.1	22.2	17.2	17.2	17.3	22.1	21.8	21.7	18.6	18.2	18.3
		15	0	22.5	22.1	22.1	17.1	17.2	17.2	22.1	21.9	21.8	18.7	18.2	18.4

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant3			Ant 4		
				Conducted Average (dBm)			Conducted Average			Conducted Average			Conducted Average		
				18625	18900	19175	18625	18900	19175	18625	18900	19175	18625	18900	19175
5.0	QPSK	1	0	25.5	25.3	25.4	20.4	20.4	20.4	25.0	24.8	24.7	21.2	21.1	21.0
		1	12	25.4	25.2	25.3	20.3	20.4	20.3	25.0	24.8	24.7	21.2	21.1	21.0
		1	24	25.4	25.3	25.3	20.3	20.5	20.4	25.0	24.8	24.8	21.2	21.2	21.1
		12	0	24.5	24.3	24.4	19.3	19.5	19.4	23.9	23.8	23.8	20.5	20.4	20.3
		12	6	24.5	24.2	24.4	19.2	19.5	19.3	24.0	23.8	23.7	20.6	20.4	20.3
		12	11	24.4	24.2	24.3	19.2	19.5	19.4	24.0	23.8	23.7	20.6	20.4	20.4
	16QAM	25	0	24.4	24.3	24.4	19.2	19.4	19.4	24.0	23.8	23.8	20.6	20.5	20.4
		1	0	24.9	24.6	24.8	19.7	19.8	19.9	24.2	24.3	24.1	20.3	20.3	20.1
		1	12	24.8	24.5	24.7	19.5	19.8	19.8	24.3	24.2	24.0	20.3	20.3	20.1
		1	24	24.7	24.6	24.7	19.6	19.8	19.9	24.2	24.2	24.2	20.4	20.4	20.2
		12	0	23.6	23.4	23.5	18.4	18.6	18.5	23.1	23.0	22.9	19.6	19.4	19.2
		12	6	23.5	23.4	23.5	18.4	18.7	18.5	23.1	22.9	22.9	19.6	19.4	19.3
	64QAM	12	11	23.5	23.4	23.4	18.4	18.6	18.5	23.1	22.9	22.8	19.6	19.5	19.3
		25	0	23.5	23.4	23.4	18.3	18.5	18.5	23.1	22.9	22.9	19.6	19.4	19.3
		1	0	23.7	23.3	23.4	18.4	18.4	18.5	23.0	22.7	22.6	19.6	19.1	19.4
		1	12	23.6	23.3	23.5	18.3	18.4	18.5	23.0	22.8	22.5	19.5	19.1	19.4
		1	24	23.5	23.3	23.6	18.4	18.5	18.5	23.1	22.8	22.7	19.5	19.3	19.3
		12	0	22.5	22.2	22.2	17.2	17.3	17.3	22.2	21.9	21.7	18.7	18.4	18.5
		12	6	22.5	22.2	22.2	17.1	17.4	17.3	22.2	22.0	21.8	18.8	18.4	18.5
		12	11	22.5	22.2	22.2	17.2	17.4	17.3	22.2	21.9	21.8	18.7	18.4	18.5
		25	0	22.5	22.1	22.2	17.1	17.3	17.3	22.2	21.9	21.7	18.7	18.4	18.5

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average (dBm)			Conducted Average			Conducted Average (dBm)			Conducted Average		
				18650	18900	19150	18650	18900	19150	18650	18900	19150	18650	18900	19150
10.0	QPSK	1	0	25.4	25.3	25.5	20.4	20.4	20.4	24.9	24.8	25.0	21.2	21.0	21.0
		1	24	25.2	25.2	25.2	20.3	20.5	20.4	24.9	24.8	24.7	21.2	21.0	20.9
		1	49	25.2	25.2	25.3	20.4	20.5	20.4	24.8	24.8	24.7	21.2	21.1	21.0
		25	0	24.3	24.2	24.3	19.1	19.3	19.3	23.9	23.7	23.8	20.4	20.2	20.2
		25	12	24.2	24.1	24.2	19.3	19.4	19.3	23.8	23.7	23.6	20.4	20.3	20.2
		25	24	24.1	24.1	24.2	19.3	19.4	19.3	23.7	23.6	23.6	20.4	20.3	20.2
	16QAM	50	0	24.2	24.1	24.2	19.2	19.3	19.3	23.8	23.6	23.6	20.5	20.3	20.2
		1	0	24.8	24.6	24.9	19.8	19.7	19.9	24.3	24.1	24.4	20.2	20.1	20.3
		1	24	24.6	24.5	24.6	19.7	19.8	19.9	24.3	24.0	24.1	20.2	20.1	20.1
		1	49	24.5	24.5	24.7	19.9	19.9	19.9	24.2	24.0	24.1	20.3	20.4	20.2
		25	0	23.4	23.3	23.5	18.3	18.5	18.5	23.0	22.8	22.9	19.4	19.2	19.2
		25	12	23.3	23.2	23.3	18.3	18.6	18.5	22.9	22.8	22.8	19.4	19.3	19.2
	64QAM	25	24	23.2	23.2	23.3	18.4	18.6	18.4	22.8	22.8	22.7	19.4	19.3	19.2
		50	0	23.2	23.2	23.3	18.3	18.4	18.4	22.9	22.7	22.7	19.4	19.3	19.2
		1	0	23.6	23.1	23.5	18.3	18.3	18.4	22.9	22.5	22.7	19.5	18.9	19.1
		1	24	23.3	23.0	23.2	18.3	18.3	18.4	23.0	22.6	22.4	19.4	19.1	19.1
		1	49	23.3	23.1	23.4	18.5	18.4	18.4	22.8	22.5	22.4	19.5	19.2	19.2
		25	0	22.3	22.0	22.1	17.0	17.2	17.2	22.0	21.7	21.8	18.6	18.2	18.3
		25	12	22.2	21.9	22.0	17.1	17.2	17.2	22.0	21.8	21.7	18.6	18.2	18.3
		25	24	22.1	21.9	22.1	17.2	17.2	17.1	21.9	21.8	21.7	18.5	18.3	18.4
		50	0	22.1	22.0	22.0	17.0	17.1	17.1	22.0	21.8	21.7	18.6	18.3	18.3

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18675	18900	19125	18675	18900	19125	18675	18900	19125	18675	18900	19125
15.0	QPSK	1	0	25.4	25.2	25.5	20.5	20.4	20.5	25.0	24.9	24.9	21.2	21.0	21.0
		1	37	25.1	25.1	25.4	20.4	20.5	20.5	24.9	24.7	24.9	21.2	21.0	20.9
		1	74	24.9	25.2	25.2	20.3	20.5	20.5	24.8	24.5	24.6	21.1	21.1	21.0
		36	0	24.1	24.0	24.3	19.2	19.3	19.4	23.9	23.6	23.8	20.4	20.2	20.2
		36	16	24.0	24.0	24.2	19.3	19.4	19.4	23.8	23.7	23.7	20.4	20.3	20.2
		36	35	23.9	24.0	24.1	19.3	19.5	19.4	23.7	23.6	23.5	20.3	20.3	20.1
		75	0	24.0	24.1	24.2	19.3	19.4	19.4	23.7	23.7	23.7	20.4	20.3	20.2
	16QAM	1	0	24.7	24.4	24.9	19.8	19.7	20.0	24.3	24.2	24.1	20.2	20.2	20.1
		1	37	24.4	24.3	24.7	19.9	19.8	20.0	24.3	24.2	24.2	20.3	20.2	19.9
		1	74	24.4	24.4	24.5	19.8	19.9	19.9	24.1	23.9	23.8	20.2	20.4	20.0
		36	0	23.2	23.1	23.4	18.4	18.5	18.5	23.0	22.7	22.9	19.4	19.2	19.2
		36	16	23.1	23.1	23.3	18.5	18.6	18.5	22.8	22.7	22.9	19.4	19.2	19.1
		36	35	23.0	23.1	23.2	18.5	18.6	18.5	22.8	22.7	22.7	19.3	19.3	19.2
		75	0	23.1	23.1	23.3	18.4	18.5	18.5	22.8	22.7	22.8	19.4	19.3	19.2
	64QAM	1	0	23.5	23.2	23.5	18.3	18.3	18.4	23.0	22.7	22.7	19.6	19.1	19.2
		1	37	23.1	23.1	23.3	18.4	18.4	18.4	22.9	22.8	22.6	19.5	19.2	19.1
		1	74	23.1	23.2	23.4	18.4	18.5	18.4	22.6	22.7	22.4	19.3	19.5	19.1
		36	0	22.1	21.9	22.2	17.0	17.1	17.2	22.0	21.7	21.8	18.6	18.1	18.3
		36	16	21.9	21.9	22.1	17.1	17.2	17.1	21.9	21.8	21.8	18.5	18.2	18.3
		36	35	21.8	21.9	21.9	17.2	17.2	17.2	21.8	21.8	21.7	18.4	18.3	18.3
		75	0	21.8	21.8	22.1	17.1	17.1	17.1	21.8	21.7	21.7	18.5	18.2	18.3

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18700	18900	19100	18700	18900	19100	18700	18900	19100	18700	18900	19100
20.0	QPSK	1	0	25.5	25.3	25.5	20.4	20.4	20.5	25.0	24.9	24.8	21.1	21.0	21.0
		1	49	25.2	25.2	25.5	20.3	20.5	20.5	24.8	24.7	24.9	21.0	20.9	20.8
		1	99	25.3	25.4	25.2	20.4	20.5	20.4	24.8	24.6	24.6	21.1	21.2	20.8
		50	0	24.3	24.1	24.4	19.2	19.3	19.3	23.8	23.6	23.7	20.4	20.2	20.2
		50	24	24.1	24.2	24.3	19.2	19.3	19.3	23.7	23.7	23.7	20.3	20.2	20.1
		50	49	24.0	24.1	24.2	19.2	19.4	19.3	23.6	23.6	23.5	20.2	20.3	20.1
		100	0	24.1	24.2	24.4	19.3	19.4	19.4	23.7	23.7	23.7	20.4	20.3	20.2
	16QAM	1	0	24.9	24.5	24.8	19.8	19.7	19.9	24.3	24.3	24.1	20.2	20.3	20.2
		1	49	24.6	24.5	24.8	19.9	19.8	19.8	24.1	24.2	24.2	20.2	20.2	20.0
		1	99	24.7	24.6	24.6	20.0	19.9	19.8	24.1	24.1	23.9	20.3	20.4	20.0
		50	0	23.3	23.2	23.5	18.3	18.4	18.4	22.9	22.7	22.8	19.3	19.2	19.2
		50	24	23.1	23.2	23.4	18.4	18.4	18.4	22.8	22.7	22.8	19.2	19.2	19.1
		50	49	23.0	23.2	23.2	18.3	18.5	18.4	22.7	22.7	22.7	19.2	19.3	19.1
		100	0	23.2	23.2	23.4	18.4	18.4	18.5	22.8	22.7	22.8	19.3	19.3	19.2
	64QAM	1	0	23.6	23.1	23.5	18.3	18.1	18.5	23.0	22.5	22.7	19.4	19.1	19.2
		1	49	23.3	22.9	23.5	18.3	18.2	18.4	22.8	22.6	22.7	19.3	19.1	19.0
		1	99	23.4	23.2	23.4	18.5	18.3	18.4	22.7	22.6	22.5	19.2	19.4	19.0
		50	0	22.0	21.8	22.1	16.9	17.0	17.0	21.9	21.7	21.8	18.5	18.1	18.3
		50	24	21.9	21.9	22.1	17.0	17.0	17.0	21.8	21.8	21.8	18.4	18.2	18.3
		50	49	21.8	21.9	22.0	16.9	17.1	17.1	21.6	21.8	21.8	18.3	18.3	18.3
		100	0	21.9	21.9	22.1	17.1	17.0	17.1	21.9	21.8	21.9	18.4	18.2	18.3

7.1.2. LTE BAND 5

ID:	10646	Date:	7/25/18
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OUTPUT POWER FOR LTE BAND 5 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average		
				20407	20525	20643	20407	20525	20643
				824.7	836.5	848.3	824.7	836.5	848.3
1.4	QPSK	1	0	25.4	25.5	25.2	24.4	24.5	24.4
		1	2	25.4	25.5	25.2	24.4	24.5	24.4
		1	5	25.4	25.4	25.1	24.3	24.5	24.4
		3	0	25.4	25.4	25.2	24.4	24.5	24.4
		3	1	25.4	25.4	25.1	24.3	24.5	24.4
		3	2	25.4	25.4	25.1	24.3	24.5	24.3
		6	0	24.4	24.4	24.1	23.4	23.4	23.3
	16QAM	1	0	24.7	24.9	24.4	23.7	23.8	23.6
		1	2	24.6	24.8	24.4	23.7	23.8	23.6
		1	5	24.6	24.8	24.4	23.6	23.8	23.6
		3	0	24.6	24.6	24.3	23.5	23.6	23.5
		3	1	24.6	24.6	24.2	23.5	23.6	23.4
		3	2	24.6	24.6	24.3	23.5	23.6	23.4
		6	0	23.5	23.5	23.3	22.5	22.5	22.4
	64QAM	1	0	23.4	23.5	23.7	23.1	23.2	23.1
		1	2	23.4	23.5	23.6	23.1	23.2	23.1
		1	5	23.3	23.5	23.7	23.1	23.2	23.1
		3	0	23.3	23.3	23.5	23.0	23.0	22.9
		3	1	23.3	23.3	23.4	23.0	22.9	22.9
		3	2	23.3	23.3	23.4	23.0	22.9	22.9
		6	0	22.3	22.3	22.3	22.0	21.9	21.8

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				20415	20525	20635	20415	20525	20635
				825.5	836.5	847.5	825.5	836.5	847.5
3.0	QPSK	1	0	25.5	25.5	25.3	24.3	24.3	24.5
		1	7	25.5	25.5	25.3	24.3	24.5	24.4
		1	14	25.4	25.5	25.3	24.2	24.5	24.4
		8	0	24.5	24.5	24.2	23.3	23.4	23.4
		8	4	24.4	24.4	24.3	23.3	23.4	23.4
		8	7	24.4	24.5	24.3	23.3	23.4	23.4
		15	0	24.4	24.4	24.3	23.3	23.4	23.4
	16QAM	1	0	24.9	24.8	24.6	23.7	23.6	23.8
		1	7	24.9	24.9	24.7	23.6	23.8	23.7
		1	14	24.8	24.9	24.6	23.6	23.8	23.7
		8	0	23.6	23.6	23.4	22.5	22.5	22.5
		8	4	23.5	23.6	23.4	22.4	22.5	22.4
		8	7	23.5	23.6	23.4	22.4	22.5	22.4
		15	0	23.5	23.6	23.3	22.3	22.5	22.4
	64QAM	1	0	23.5	23.6	23.7	23.2	23.1	23.1
		1	7	23.5	23.5	23.7	23.1	23.1	22.9
		1	14	23.4	23.6	23.6	23.1	23.1	22.9
		8	0	22.3	22.4	22.3	21.9	22.0	21.7
		8	4	22.3	22.3	22.4	21.9	21.9	21.7
		8	7	22.3	22.4	22.4	21.9	22.0	21.7
		15	0	22.2	22.3	22.3	21.8	21.9	21.6

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				20425	20525	20625	20425	20525	20625
				826.5	836.5	846.5	826.5	836.5	846.5
5.0	QPSK	1	0	25.5	25.5	25.4	24.3	24.3	24.5
		1	12	25.4	25.4	25.2	24.2	24.4	24.3
		1	24	25.3	25.5	25.3	24.3	24.5	24.3
		12	0	24.3	24.4	24.2	23.2	23.4	23.4
		12	6	24.3	24.5	24.2	23.2	23.4	23.4
		12	11	24.3	24.5	24.3	23.2	23.5	23.4
		25	0	24.4	24.5	24.3	23.2	23.4	23.4
	16QAM	1	0	24.8	24.9	24.8	23.6	23.8	24.0
		1	12	24.7	24.8	24.7	23.5	23.7	23.8
		1	24	24.7	24.9	24.7	23.6	23.9	23.7
		12	0	23.6	23.7	23.4	22.4	22.5	22.6
		12	6	23.5	23.6	23.4	22.4	22.6	22.5
		12	11	23.5	23.7	23.4	22.4	22.6	22.4
		25	0	23.5	23.6	23.4	22.4	22.5	22.5
	64QAM	1	0	23.5	23.7	23.8	23.2	23.0	23.1
		1	12	23.4	23.5	23.7	23.1	23.1	22.9
		1	24	23.4	23.6	23.6	23.1	23.2	22.9
		12	0	22.2	22.4	22.3	21.9	21.8	21.9
		12	6	22.2	22.4	22.3	21.9	21.9	21.8
		12	11	22.2	22.5	22.4	21.9	22.0	21.7
		25	0	22.2	22.4	22.3	21.9	21.9	21.7

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				20450	20525	20600	20450	20525	20600
				829.0	836.5	844.0	829.0	836.5	844.0
10.0	QPSK	1	0	25.4	25.5	25.5	24.2	24.2	24.5
		1	12	25.2	25.4	25.3	24.1	24.3	24.4
		1	24	25.4	25.4	25.2	24.2	24.5	24.3
		12	0	24.2	24.3	24.3	23.1	23.2	23.4
		12	6	24.2	24.3	24.2	23.1	23.3	23.3
		12	11	24.4	24.4	24.1	23.1	23.4	23.3
		25	0	24.2	24.3	24.2	23.0	23.3	23.3
	16QAM	1	0	24.8	24.8	24.9	23.6	23.6	23.9
		1	12	24.6	24.7	24.7	23.6	23.7	23.9
		1	24	24.9	24.7	24.6	23.6	23.8	23.6
		12	0	23.3	23.5	23.4	22.2	22.4	22.5
		12	6	23.3	23.4	23.3	22.2	22.4	22.5
		12	11	23.5	23.5	23.2	22.3	22.5	22.4
		25	0	23.3	23.3	23.2	22.1	22.3	22.4
	64QAM	1	0	23.5	23.6	23.4	23.0	22.9	23.1
		1	12	23.4	23.4	23.5	22.8	23.0	22.9
		1	24	23.7	23.4	23.4	23.0	23.1	22.8
		12	0	22.1	22.3	22.3	21.7	21.7	21.8
		12	6	22.1	22.2	22.2	21.7	21.8	21.7
		12	11	22.3	22.3	22.2	21.6	21.9	21.7
		25	0	22.1	22.2	22.1	21.6	21.7	21.7

7.1.3. LTE BAND 7

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
5.0	QPSK	1	0	25.4	25.4	25.2	20.0	19.9	19.8	24.4	25.0	24.7	18.2	19.5	19.5
		1	12	25.4	25.4	25.2	19.9	19.8	19.8	24.7	24.9	24.7	18.5	19.4	19.5
		1	24	25.5	25.4	25.1	20.0	19.8	19.8	25.0	24.9	24.6	18.8	19.4	19.5
		12	0	24.4	24.4	24.2	18.8	18.7	18.6	24.0	24.3	24.1	17.6	18.7	18.8
		12	6	24.4	24.3	24.2	18.8	18.7	18.6	24.1	24.3	24.1	17.8	18.7	18.8
		12	11	24.4	24.4	24.1	18.9	18.7	18.6	24.2	24.3	24.1	18.0	18.7	18.8
	16QAM	25	0	24.4	24.4	24.2	18.8	18.7	18.6	24.2	24.3	24.1	17.9	18.8	18.8
		1	0	24.9	24.7	24.6	19.4	19.5	19.2	23.7	24.1	23.8	17.3	18.7	18.7
		1	12	24.9	24.7	24.6	19.4	19.4	19.1	23.9	24.1	23.9	17.7	18.6	18.6
		1	24	25.0	24.7	24.6	19.5	19.4	19.1	24.2	24.1	23.8	18.0	18.5	18.7
		12	0	23.5	23.4	23.2	17.9	17.8	17.7	23.0	23.2	23.0	16.6	17.8	17.7
		12	6	23.4	23.4	23.2	17.9	17.8	17.7	23.1	23.2	23.1	16.7	17.8	17.8
	64QAM	12	11	23.5	23.4	23.2	17.9	17.7	17.7	23.1	23.2	23.1	16.9	17.7	17.8
		25	0	23.4	23.4	23.2	17.8	17.8	17.7	23.1	23.2	23.1	16.7	17.8	17.8
		1	0	23.6	23.5	23.5	21.4	21.2	21.3	22.9	23.6	23.3	16.4	17.9	17.9
		1	12	23.6	23.5	23.6	21.4	21.2	21.2	23.1	23.5	23.3	16.8	17.8	18.0
		1	24	23.8	23.5	23.6	21.5	21.1	21.1	23.4	23.5	23.4	17.1	17.8	18.1
		12	0	22.3	22.0	22.2	20.1	19.9	19.9	22.2	22.5	22.3	15.7	16.9	17.0
		12	6	22.4	22.0	22.3	20.0	19.9	20.0	22.4	22.5	22.4	15.9	16.9	17.2
		12	11	22.4	22.1	22.2	20.1	19.8	19.9	22.5	22.5	22.4	16.0	16.9	17.1
		25	0	22.3	22.1	22.3	20.0	19.9	19.9	22.4	22.6	22.4	15.9	16.9	17.1

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
10.0	QPSK	1	0	25.5	25.5	25.2	19.9	19.8	19.7	24.1	24.7	24.3	18.2	19.5	19.3
		1	24	25.5	25.3	25.2	20.0	19.7	19.7	24.7	24.6	24.4	18.8	19.4	19.3
		1	49	25.5	25.4	25.2	20.0	19.6	19.6	25.0	24.6	24.5	19.1	19.3	19.3
		25	0	24.6	24.5	24.2	18.9	18.7	18.6	24.0	24.1	23.8	17.9	18.8	18.8
		25	12	24.5	24.4	24.2	18.9	18.7	18.7	24.2	24.1	23.9	18.2	18.8	18.8
		25	24	24.5	24.4	24.2	18.9	18.6	18.6	24.3	24.0	23.9	18.4	18.8	18.8
	16QAM	50	0	24.5	24.4	24.2	18.9	18.6	18.6	24.2	24.0	23.9	18.1	18.8	18.8
		1	0	24.9	24.7	24.5	19.4	19.2	19.0	23.3	23.9	23.5	17.4	18.7	18.3
		1	24	24.9	24.6	24.5	19.4	19.1	19.0	23.8	23.9	23.6	18.0	18.6	18.3
		1	49	24.9	24.7	24.6	19.6	19.1	19.0	24.1	23.8	23.6	18.3	18.6	18.4
		25	0	23.6	23.6	23.2	17.9	17.8	17.7	23.0	23.1	22.8	16.9	17.9	17.8
		25	12	23.6	23.5	23.4	18.0	17.8	17.8	23.1	23.1	22.9	17.1	17.8	17.8
	64QAM	25	24	23.6	23.5	23.4	18.0	17.8	17.7	23.3	23.1	23.0	17.4	17.8	17.8
		50	0	23.5	23.5	23.3	17.9	17.8	17.7	23.1	23.1	22.9	17.1	17.8	17.8
		1	0	23.6	23.4	23.3	17.9	17.8	17.6	22.5	23.3	22.8	16.4	17.7	17.6
		1	24	23.6	23.3	23.6	18.0	17.7	17.8	23.0	23.2	22.9	17.1	17.6	17.6
		1	49	23.7	23.4	23.6	18.0	17.7	17.7	23.4	23.2	22.9	17.5	17.5	17.7
		25	0	22.5	22.3	22.3	16.8	16.7	16.6	22.3	22.5	22.2	16.0	17.0	17.1
		25	12	22.5	22.2	22.4	16.9	16.6	16.6	22.5	22.5	22.2	16.3	16.9	17.1
		25	24	22.5	22.2	22.4	16.9	16.6	16.6	22.6	22.4	22.3	16.5	16.9	17.1
		50	0	22.4	22.2	22.3	16.8	16.6	16.6	22.5	22.4	22.2	16.2	16.9	17.1

OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20825	21100	21375	20825	21100	21375	20825	21100	21375	20825	21100	21375
				2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5
15.0	QPSK	1	0	25.5	25.5	25.2	19.9	19.8	17.1	24.1	24.7	24.1	18.2	19.5	19.4
		1	37	25.5	25.4	25.1	20.0	19.7	17.0	24.8	24.5	24.3	19.0	19.3	19.2
		1	74	25.4	25.4	25.2	19.9	19.6	17.0	25.0	24.5	24.2	19.3	19.2	19.3
		36	0	24.5	24.4	24.1	18.9	18.7	16.0	23.9	24.0	23.7	18.0	18.8	18.8
		36	16	24.6	24.4	24.2	18.9	18.7	16.0	24.1	24.0	23.7	18.3	18.8	18.8
		36	35	24.5	24.3	24.2	18.8	18.6	16.1	24.2	23.9	23.7	18.5	18.7	18.8
		75	0	24.5	24.4	24.2	18.9	18.6	16.0	24.1	23.9	23.7	18.3	18.7	18.7
	16QAM	1	0	24.8	24.8	24.4	19.4	19.3	16.5	23.2	23.8	23.1	17.3	18.7	18.4
		1	37	24.8	24.7	24.3	19.5	19.2	16.3	23.8	23.7	23.2	18.1	18.5	18.2
		1	74	24.8	24.8	24.5	19.4	19.1	16.4	24.2	23.7	23.2	18.4	18.5	18.3
		36	0	23.6	23.5	23.2	18.0	17.8	15.1	22.9	23.0	22.6	17.0	17.8	17.8
		36	16	23.6	23.5	23.2	18.0	17.8	15.1	23.2	23.0	22.7	17.3	17.8	17.8
		36	35	23.5	23.4	23.3	18.0	17.7	15.1	23.3	22.9	22.8	17.5	17.7	17.8
		75	0	23.5	23.5	23.2	17.9	17.7	15.0	23.1	22.9	22.7	17.3	17.7	17.7
	64QAM	1	0	23.6	23.5	23.4	17.9	17.9	17.6	22.4	23.3	22.7	16.6	17.9	17.7
		1	37	23.7	23.4	23.4	18.0	17.8	17.7	23.1	23.1	22.8	17.3	17.7	17.5
		1	74	23.7	23.5	23.6	18.0	17.8	17.6	23.4	23.1	22.9	17.7	17.7	17.7
		36	0	22.5	22.2	22.1	16.8	16.6	16.5	22.2	22.4	22.0	16.2	17.0	17.0
		36	16	22.4	22.2	22.2	16.9	16.7	16.5	22.5	22.4	22.0	16.5	16.9	17.1
		36	35	22.4	22.2	22.4	16.8	16.6	16.6	22.6	22.3	22.1	16.7	16.9	17.1
		75	0	22.4	22.2	22.2	16.8	16.6	16.5	22.4	22.3	22.0	16.4	16.9	17.0

OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20850	21100	21350	20850	21100	21350	20850	21100	21350	20850	21100	21350
				2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0
20.0	QPSK	1	0	25.5	25.4	25.4	19.9	19.8	19.7	24.8	25.0	24.6	18.1	19.5	19.4
		1	49	25.4	25.2	24.9	19.9	19.7	19.6	25.0	24.8	24.5	19.0	19.3	19.2
		1	99	25.5	25.4	25.2	20.0	19.6	19.7	25.0	24.9	24.6	19.4	19.3	19.3
		50	0	24.5	24.3	24.1	18.8	18.7	18.6	23.9	23.8	23.4	18.2	18.7	18.7
		50	24	24.3	24.3	24.0	18.8	18.6	18.5	24.0	23.8	23.5	18.5	18.7	18.7
		50	49	24.3	24.3	24.1	18.7	18.5	18.7	23.9	23.9	23.6	18.7	18.6	18.7
	16QAM	100	0	24.3	24.3	24.0	18.8	18.6	18.6	24.0	23.8	23.5	18.5	18.7	18.7
		1	0	24.9	24.7	24.6	19.5	19.2	19.2	24.2	24.3	24.2	17.4	18.7	18.7
		1	49	24.9	24.5	24.2	19.5	19.0	19.0	24.2	24.1	23.9	18.1	18.4	18.4
		1	99	25.0	24.7	24.5	19.6	19.0	19.0	24.4	24.2	24.1	18.5	18.4	18.5
		50	0	23.5	23.4	23.1	18.0	17.8	17.7	23.0	22.9	22.5	17.1	17.8	17.7
		50	24	23.4	23.4	23.0	17.9	17.8	17.6	23.0	22.9	22.5	17.4	17.7	17.7
		50	49	23.3	23.4	23.2	17.8	17.7	17.7	22.9	22.9	22.6	17.6	17.7	17.7
		100	0	23.4	23.4	23.1	17.8	17.8	17.6	23.0	22.9	22.6	17.4	17.7	17.7
	64QAM	1	0	23.6	23.6	23.2	17.9	17.5	17.7	22.1	22.9	22.2	16.4	17.8	17.7
		1	49	23.6	23.4	23.0	17.9	17.5	17.4	22.8	22.6	22.1	17.3	17.6	17.5
		1	99	23.7	23.6	23.3	18.0	17.5	17.5	23.0	22.6	22.2	17.6	17.7	17.7
		50	0	22.3	22.1	22.0	16.6	16.4	16.4	21.9	22.0	21.6	16.2	16.9	17.0
		50	24	22.2	22.1	22.0	16.5	16.4	16.3	22.1	21.8	21.6	16.6	16.8	17.0
		50	49	22.1	22.1	22.2	16.4	16.3	16.4	22.2	21.8	21.6	16.8	16.8	17.1
		100	0	22.2	22.1	22.0	16.5	16.4	16.3	22.0	21.9	21.6	16.5	16.8	17.0

7.1.4. LTE BAND 12

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23017	23095	23173	23017	23095	23173
				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	25.5	25.5	25.4	24.5	24.4	24.5
		1	2	25.5	25.5	25.3	24.5	24.4	24.5
		1	5	25.5	25.5	25.4	24.5	24.4	24.5
		3	0	25.5	25.5	25.4	24.5	24.5	24.5
		3	1	25.5	25.5	25.4	24.4	24.4	24.5
		3	2	25.5	25.5	25.4	24.4	24.4	24.5
	16QAM	6	0	24.5	24.5	24.3	23.4	23.4	23.5
		1	0	24.8	24.9	24.6	23.9	23.7	23.8
		1	2	24.7	24.8	24.6	23.9	23.6	23.8
		1	5	24.8	24.9	24.7	24.0	23.7	23.8
		3	0	24.6	24.7	24.5	23.6	23.6	23.7
		3	1	24.6	24.6	24.5	23.6	23.6	23.7
	64QAM	3	2	24.6	24.6	24.5	23.6	23.6	23.7
		6	0	23.6	23.6	23.5	22.6	22.6	22.7
		1	0	23.4	23.2	23.4	22.3	22.4	22.5
		1	2	23.2	23.2	23.3	22.3	22.3	22.5
		1	5	23.3	23.2	23.3	22.3	22.2	22.4
		3	0	23.2	23.1	23.2	22.2	22.1	22.4
	64QAM	3	1	23.2	23.1	23.2	22.2	22.1	22.4
		3	2	23.2	23.1	23.1	22.2	22.1	22.2
		6	0	22.2	22.1	21.9	21.2	21.2	21.2

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23025	23095	23165	23025	23095	23165
				700.5	707.5	714.5	700.5	707.5	714.5
3.0	QPSK	1	0	25.4	25.5	25.4	24.3	24.3	24.4
		1	7	25.5	25.5	25.4	24.4	24.4	24.4
		1	14	25.5	25.4	25.3	24.5	24.3	24.3
		8	0	24.4	24.4	24.4	23.4	23.3	23.4
		8	4	24.5	24.4	24.4	23.4	23.3	23.3
		8	7	24.5	24.5	24.4	23.4	23.4	23.3
	16QAM	15	0	24.5	24.5	24.4	23.4	23.3	23.3
		1	0	24.6	24.8	24.8	23.7	23.7	23.8
		1	7	24.8	24.9	24.6	23.7	23.7	23.8
		1	14	24.8	24.8	24.7	23.9	23.6	23.7
		8	0	23.6	23.6	23.5	22.5	22.4	22.6
		8	4	23.6	23.6	23.5	22.5	22.4	22.5
	64QAM	8	7	23.6	23.6	23.5	22.5	22.4	22.5
		15	0	23.6	23.6	23.4	22.4	22.4	22.4
		1	0	23.3	23.2	23.4	22.2	22.3	22.2
		1	7	23.3	23.1	23.2	22.3	22.2	22.4
		1	14	23.4	23.1	23.3	22.5	22.0	22.3
		8	0	22.2	22.1	22.1	21.2	21.2	21.2
	64QAM	8	4	22.2	22.1	22.0	21.2	21.1	21.2
		8	7	22.2	22.0	22.0	21.2	21.1	21.2
		15	0	22.1	22.0	21.9	21.2	21.1	21.1

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23035	23095	23155	23035	23095	23155
				701.5	707.5	713.5	701.5	707.5	713.5
5.0	QPSK	1	0	25.5	25.5	25.4	24.3	24.2	24.2
		1	12	25.5	25.5	25.5	24.5	24.2	24.4
		1	24	25.5	25.5	25.5	24.4	24.2	24.3
		12	0	24.5	24.5	24.5	23.3	23.3	23.3
		12	6	24.5	24.5	24.5	23.4	23.3	23.4
		12	11	24.4	24.5	24.5	23.3	23.4	23.3
		25	0	24.5	24.5	24.5	23.4	23.4	23.4
	16QAM	1	0	24.8	24.8	24.9	23.7	23.5	23.6
		1	12	24.8	24.8	24.9	23.9	23.6	23.9
		1	24	24.9	24.9	24.9	23.8	23.5	23.8
		12	0	23.7	23.7	23.6	22.5	22.5	22.5
		12	6	23.7	23.7	23.6	22.6	22.5	22.6
		12	11	23.6	23.7	23.6	22.5	22.5	22.5
		25	0	23.7	23.7	23.6	22.6	22.4	22.5
	64QAM	1	0	23.4	23.4	23.3	22.4	22.2	22.1
		1	12	23.5	23.3	23.3	22.5	22.3	22.4
		1	24	23.6	23.3	23.4	22.4	22.1	22.4
		12	0	22.3	22.2	22.2	21.2	21.2	21.2
		12	6	22.4	22.2	22.2	21.3	21.2	21.2
		12	11	22.3	22.2	22.1	21.2	21.2	21.2
		25	0	22.3	22.2	22.1	21.2	21.1	21.2

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23060	23095	23130	23060	23095	23130
				704.0	707.5	711.0	704.0	707.5	711.0
10.0	QPSK	1	0	25.5	25.5	25.5	24.5	24.5	24.4
		1	24	25.5	25.4	25.5	24.5	24.4	24.3
		1	49	25.5	25.4	25.4	24.4	24.4	24.5
		25	0	24.4	24.3	24.4	23.4	23.2	23.4
		25	12	24.4	24.4	24.4	23.3	23.3	23.3
		25	24	24.3	24.4	24.4	23.3	23.3	23.5
		50	0	24.3	24.4	24.2	23.3	23.3	23.3
	16QAM	1	0	24.9	24.9	24.8	23.9	23.9	23.7
		1	24	24.8	24.8	24.7	23.9	23.7	23.6
		1	49	24.9	24.7	24.6	23.8	23.9	23.8
		25	0	23.5	23.5	23.5	22.6	22.3	22.5
		25	12	23.5	23.5	23.5	22.5	22.4	22.4
		25	24	23.5	23.6	23.6	22.5	22.4	22.7
		50	0	23.4	23.5	23.4	22.5	22.5	22.4
	64QAM	1	0	23.3	23.4	23.2	22.3	22.3	22.3
		1	24	23.4	23.2	23.2	22.5	22.1	22.1
		1	49	23.2	23.3	23.1	22.3	22.2	22.4
		25	0	22.1	22.1	22.0	21.2	21.0	21.0
		25	12	22.1	22.1	22.0	21.2	21.1	20.9
		25	24	22.1	22.0	22.1	21.1	21.0	21.2
		50	0	22.0	22.0	21.9	21.1	21.0	20.9

7.1.5. LTE BAND 13

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23207	23230	23255	23207	23230	23255
5.0	QPSK	1	0	779.5	782.0	784.5	779.5	782.0	784.5
		1	12	25.3	25.4	25.4	24.4	24.3	24.3
		1	24	25.4	25.5	25.4	24.3	24.4	24.5
		12	0	24.3	24.4	24.5	23.3	23.2	23.3
		12	6	24.2	24.3	24.3	23.2	23.2	23.3
		12	11	24.3	24.4	24.3	23.2	23.2	23.3
	16QAM	25	0	24.3	24.3	24.4	23.3	23.2	23.3
		1	0	24.8	24.7	24.9	24.0	23.7	23.6
		1	12	24.7	24.7	24.9	23.8	23.5	23.8
		1	24	25.0	24.9	24.9	23.7	23.8	23.9
		12	0	23.4	23.4	23.6	22.5	22.2	22.3
		12	6	23.4	23.4	23.4	22.4	22.2	22.3
	64QAM	12	11	23.5	23.6	23.4	22.3	22.3	22.4
		25	0	23.3	23.3	23.4	22.3	22.2	22.3
		1	0	22.9	23.2	23.2	22.3	22.0	22.0
		1	12	22.9	23.2	23.1	21.9	22.0	22.1
		1	24	23.2	23.3	23.2	22.0	22.3	22.0
		12	0	21.5	21.7	21.8	20.8	20.6	20.7
		12	6	21.6	21.6	21.7	20.6	20.6	20.6
		12	11	21.7	21.7	21.7	20.6	20.6	20.7
		25	0	21.6	21.6	21.7	20.7	20.6	20.7

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0		25.5			24.5	
		1	24		25.5			24.2	
		1	49		25.5			24.4	
		25	0		24.5			23.3	
		25	12		24.4			23.2	
		25	24		24.5			23.2	
	16QAM	50	0		24.4			23.2	
		1	0		24.9			24.0	
		1	24		25.0			23.6	
		1	49		24.9			23.8	
		25	0		23.6			22.4	
		25	12		23.5			22.3	
	64QAM	25	24		23.6			22.4	
		50	0		23.5			22.3	
		1	0		22.9			22.2	
		1	24		23.2			21.9	
		1	49		23.2			22.0	
		25	0		21.8			20.8	
		25	12		21.8			20.7	
		25	24		21.9			20.8	
		50	0		21.8			20.7	

7.1.6. LTE BAND 14

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23305	23330	23355	23305	23330	23355
5.0	QPSK	1	0	790.5	793.0	795.5	790.5	793.0	795.5
		1	0	25.5	25.5	25.5	24.5	24.5	24.4
		1	12	25.4	25.4	25.4	24.4	24.3	24.2
		1	24	25.4	25.4	25.4	24.4	24.1	24.3
		12	0	24.5	24.4	24.3	23.4	23.4	23.2
		12	6	24.4	24.4	24.4	23.4	23.5	23.2
		12	11	24.3	24.4	24.3	23.4	23.4	23.3
		25	0	24.4	24.4	24.5	23.5	23.4	23.2
	16QAM	1	0	24.9	24.9	24.8	24.0	24.1	23.7
		1	12	24.8	24.8	24.7	23.9	23.7	23.4
		1	24	24.8	24.8	24.7	23.9	23.5	23.5
		12	0	23.5	23.4	23.3	22.5	22.5	22.3
		12	6	23.6	23.5	23.5	22.6	22.5	22.2
		12	11	23.5	23.5	23.5	22.5	22.4	22.4
		25	0	23.5	23.6	23.5	22.6	22.5	22.3
	64QAM	1	0	23.2	23.4	23.2	22.5	22.5	22.2
		1	12	23.1	23.3	23.1	22.3	22.2	22.0
		1	24	23.3	23.3	23.2	22.3	22.0	22.2
		12	0	21.9	21.9	21.9	21.0	21.0	20.9
		12	6	22.0	21.9	21.9	21.1	21.0	20.8
		12	11	21.9	21.9	21.8	21.0	20.9	21.0
		25	0	21.9	21.9	21.9	21.1	21.0	20.9

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	23330	N/A	N/A	23330	N/A
10.0	QPSK	1	0		25.5			24.5	
		1	24		25.4			24.4	
		1	49		25.3			24.3	
		25	0		24.4			23.4	
		25	12		24.4			23.4	
		25	24		24.4			23.2	
		50	0		24.3			23.3	
	16QAM	1	0		24.9			23.9	
		1	24		24.7			23.7	
		1	49		24.7			23.5	
		25	0		23.5			22.6	
		25	12		23.5			22.6	
		25	24		23.6			22.4	
	64QAM	50	0		23.5			22.5	
		1	0		23.1			22.3	
		1	24		23.0			22.2	
		1	49		23.1			22.2	
		25	0		21.9			21.2	
		25	12		21.9			21.2	
		25	24		22.0			21.0	
		50	0		21.9			21.1	

7.1.7. LTE BAND 17

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23755	23790	23825	23755	23790	23825
5.0	QPSK	1	0	706.5	710.0	713.5	706.5	710.0	713.5
		1	12	25.5	25.5	25.4	24.5	24.4	24.3
		1	24	25.5	25.5	25.5	24.4	24.4	24.5
		12	0	24.5	24.5	24.5	23.3	23.3	23.5
		12	6	24.6	24.5	24.5	23.4	23.3	23.6
		12	11	24.6	24.4	24.5	23.4	23.3	23.4
	16QAM	25	0	24.6	24.5	24.5	23.4	23.3	23.5
		1	0	25.0	24.8	24.8	24.0	23.7	23.6
		1	12	24.9	24.8	24.8	23.7	23.5	23.9
		1	24	25.0	24.8	24.8	23.7	23.8	23.8
		12	0	23.7	23.7	23.6	22.5	22.5	22.7
		12	6	23.7	23.7	23.7	22.5	22.5	22.7
	64QAM	12	11	23.7	23.7	23.7	22.5	22.5	22.6
		25	0	23.7	23.7	23.6	22.5	22.5	22.6
		1	0	23.5	23.4	23.3	22.5	22.3	22.1
		1	12	23.3	23.4	23.4	22.3	22.1	22.4
		1	24	23.3	23.4	23.3	22.2	22.4	22.4
		12	0	22.2	22.2	22.2	21.1	21.1	21.2
		12	6	22.3	22.2	22.2	21.2	21.1	21.2
		12	11	22.3	22.2	22.2	21.2	21.1	21.2
		25	0	22.2	22.1	22.2	21.1	21.0	21.2

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23780	23790	23800	23780	23790	23800
10.0	QPSK	1	0	709.0	710.0	711.0	709.0	710.0	711.0
		1	24	25.4	25.4	25.5	24.3	24.2	24.3
		1	49	25.4	25.3	25.4	24.5	24.4	24.4
		25	0	24.3	24.3	24.4	23.2	23.2	23.2
		25	12	24.4	24.3	24.4	23.2	23.2	23.2
		25	24	24.3	24.3	24.4	23.2	23.3	23.4
	16QAM	50	0	24.3	24.3	24.3	23.2	23.2	23.1
		1	0	24.8	24.7	24.9	23.8	23.5	23.7
		1	24	24.8	24.7	24.9	23.6	23.5	23.6
		1	49	24.8	24.6	24.8	23.9	23.7	23.9
		25	0	23.5	23.5	23.6	22.3	22.4	22.4
		25	12	23.5	23.5	23.5	22.3	22.3	22.3
	64QAM	25	24	23.4	23.4	23.5	22.3	22.5	22.5
		50	0	23.4	23.4	23.4	22.3	22.2	22.3
		1	0	23.3	23.2	23.3	22.4	22.2	22.4
		1	24	23.2	23.2	23.2	22.2	22.1	22.2
		1	49	23.3	23.2	23.2	22.5	22.4	22.5
		25	0	22.1	22.0	22.0	21.2	21.1	21.2
		25	12	22.0	22.0	22.0	21.2	21.0	21.0
		25	24	22.0	22.0	22.0	21.1	21.2	21.3
		50	0	22.0	22.0	21.9	21.0	21.0	21.0

7.1.8. LTE BAND 25

ID:	10646	Date:	7/26/18
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OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
1.4	QPSK	1	0	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3
		1	2	25.5	25.3	25.4	20.4	20.4	20.3	24.9	24.7	24.7	21.1	20.8	21.1
		1	5	25.5	25.3	25.4	20.4	20.5	20.3	24.9	24.6	24.7	21.0	20.9	21.0
		3	0	25.5	25.3	25.4	20.3	20.4	20.2	25.0	24.8	24.9	21.2	21.1	21.1
		3	1	25.5	25.3	25.4	20.3	20.4	20.2	25.0	24.8	24.8	21.2	21.1	21.1
		3	2	25.5	25.3	25.3	20.3	20.4	20.2	25.0	24.8	24.8	21.2	21.1	21.1
	16QAM	6	0	24.5	24.3	24.3	19.3	19.4	19.2	24.1	23.9	23.9	20.2	20.1	20.2
		1	0	24.7	24.6	24.7	19.7	19.9	19.5	24.2	23.8	24.0	20.1	20.2	20.2
		1	2	24.7	24.6	24.7	19.7	19.8	19.4	24.2	23.7	24.0	20.1	20.0	20.2
		1	5	24.7	24.6	24.7	19.7	19.9	19.5	24.3	23.8	23.9	20.1	20.3	20.2
		3	0	24.6	24.5	24.5	19.5	19.6	19.4	24.0	23.7	23.8	20.0	20.1	20.2
		3	1	24.6	24.4	24.5	19.5	19.6	19.3	24.0	23.8	23.8	20.1	20.0	20.1
	64QAM	3	2	24.6	24.4	24.5	19.5	19.6	19.3	24.0	23.8	23.7	20.1	20.0	20.1
		6	0	23.6	23.4	23.4	18.4	18.5	18.3	23.0	22.7	22.8	19.1	19.1	19.1
		1	0	23.5	23.3	23.6	18.5	18.4	18.3	22.9	22.7	23.1	19.2	19.0	19.4
		1	2	23.5	23.2	23.6	18.4	18.5	18.3	23.0	22.7	23.2	19.3	19.0	19.4
		1	5	23.6	23.3	23.5	18.4	18.5	18.3	23.0	22.7	23.1	19.2	19.0	19.4
		3	0	23.5	23.1	23.4	18.3	18.4	18.1	22.9	22.8	23.1	19.3	19.0	19.4
	64QAM	3	1	23.5	23.1	23.3	18.3	18.4	18.1	23.0	22.8	23.1	19.3	19.1	19.4
		3	2	23.5	23.1	23.3	18.3	18.3	18.1	23.0	22.8	23.1	19.2	19.1	19.3
		6	0	22.4	22.0	22.2	17.2	17.3	17.0	22.1	21.8	22.0	18.4	18.1	18.3

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
3.0	QPSK	1	0	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5
		1	7	25.5	25.3	25.4	20.3	20.4	20.3	24.8	24.7	24.9	21.1	21.0	21.2
		1	14	25.4	25.3	25.4	20.2	20.5	20.3	24.9	24.7	24.6	21.1	21.1	21.2
		8	0	24.5	24.3	24.5	19.3	19.4	19.3	24.3	24.0	24.2	20.5	20.4	20.5
		8	4	24.5	24.3	24.4	19.3	19.4	19.2	24.3	24.0	24.1	20.5	20.4	20.5
		8	7	24.5	24.3	24.4	19.3	19.4	19.2	24.3	24.0	24.1	20.5	20.4	20.5
	16QAM	15	0	24.5	24.3	24.4	19.3	19.4	19.2	24.3	24.1	24.2	20.5	20.4	20.5
		1	0	24.8	24.6	24.8	19.7	19.7	19.6	24.1	24.0	24.0	20.2	20.5	20.2
		1	7	24.8	24.7	24.8	19.6	19.8	19.6	24.1	24.1	23.9	20.3	20.4	20.3
		1	14	24.7	24.6	24.7	19.5	19.6	19.7	24.1	24.1	23.7	20.4	20.5	20.2
		8	0	23.5	23.4	23.5	18.4	18.5	18.3	23.2	22.9	23.1	19.4	19.3	19.4
		8	4	23.5	23.3	23.4	18.4	18.5	18.3	23.2	22.9	23.1	19.4	19.3	19.4
	64QAM	8	7	23.5	23.3	23.4	18.4	18.5	18.3	23.2	22.9	23.1	19.4	19.3	19.4
		15	0	23.5	23.3	23.4	18.4	18.5	18.2	23.1	22.9	23.1	19.4	19.4	19.4
		1	0	23.7	23.2	23.5	18.5	18.2	18.3	23.0	22.9	23.0	19.4	19.3	19.2
		1	7	23.6	23.2	23.4	18.4	18.3	18.3	23.2	22.9	23.0	19.4	19.3	19.4
		1	14	23.5	23.1	23.4	18.3	18.3	18.0	23.1	22.9	22.9	19.2	19.2	19.3
		8	0	22.4	22.0	22.2	17.3	17.2	17.1	22.2	22.0	22.1	18.6	18.3	18.5
	64QAM	8	4	22.5	22.1	22.2	17.2	17.2	17.0	22.2	22.0	22.1	18.6	18.3	18.5
		8	7	22.5	22.1	22.2	17.2	17.3	17.0	22.2	22.0	22.1	18.5	18.4	18.5
		15	0	22.4	22.0	22.1	17.2	17.2	16.9	22.2	22.0	22.2	18.6	18.4	18.5

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	LAT 1			UAT 2			LAT 3			UAT 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
				1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
5.0	QPSK	1	0	25.5	25.3	25.4	20.4	20.4	20.4	25.0	24.8	24.7	21.1	21.1	21.0
		1	12	25.4	25.2	25.4	20.2	20.4	20.2	25.0	24.8	25.0	21.1	21.0	21.1
		1	24	25.4	25.2	25.3	20.3	20.5	20.3	25.0	24.8	24.8	21.2	21.1	21.1
		12	0	24.5	24.4	24.4	19.3	19.4	19.4	24.3	24.1	24.2	20.5	20.4	20.5
		12	6	24.4	24.3	24.4	19.2	19.4	19.3	24.3	24.1	24.2	20.5	20.4	20.5
		12	11	24.4	24.3	24.4	19.2	19.4	19.2	24.3	24.1	24.3	20.5	20.4	20.5
	16QAM	25	0	24.4	24.3	24.4	19.2	19.4	19.3	24.4	24.2	24.3	20.5	20.4	20.5
		1	0	24.8	24.7	24.8	19.9	19.7	19.7	24.2	24.1	23.9	20.2	20.2	20.1
		1	12	24.7	24.6	24.8	19.7	19.8	19.6	24.1	24.1	24.1	20.2	20.2	20.3
		1	24	24.6	24.7	24.7	19.8	19.8	19.7	24.2	24.1	23.9	20.3	20.3	20.2
		12	0	23.6	23.4	23.5	18.4	18.6	18.5	23.4	23.1	23.2	19.5	19.4	19.3
		12	6	23.6	23.4	23.5	18.3	18.6	18.4	23.4	23.2	23.3	19.5	19.4	19.4
	64QAM	12	11	23.6	23.4	23.4	18.3	18.6	18.4	23.3	23.1	23.2	19.5	19.4	19.4
		25	0	23.5	23.3	23.5	18.3	18.6	18.4	23.3	23.1	23.3	19.5	19.4	19.5
		1	0	23.7	23.2	23.5	18.5	18.3	18.5	23.2	23.0	22.9	19.5	19.1	19.4
		1	12	23.5	23.2	23.5	18.3	18.3	18.3	23.2	22.9	23.2	19.4	19.2	19.4
		1	24	23.5	23.2	23.5	18.4	18.4	18.3	23.2	22.9	23.2	19.4	19.3	19.4
		12	0	22.4	22.2	22.2	17.3	17.3	17.2	22.4	22.2	22.2	18.8	18.4	18.6
		12	6	22.4	22.2	22.2	17.2	17.3	17.1	22.3	22.2	22.3	18.6	18.4	18.6

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	LAT 1			UAT 2			LAT 3			UAT 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
				1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
10.0	QPSK	1	0	25.5	25.4	25.4	20.3	20.4	20.4	25.0	24.8	24.6	21.1	21.0	20.9
		1	24	25.3	25.3	25.4	20.3	20.5	20.3	24.9	24.8	24.7	21.1	21.1	21.0
		1	49	25.3	25.4	25.4	20.4	20.5	20.3	24.8	24.8	24.9	21.1	21.2	21.1
		25	0	24.4	24.3	24.3	19.1	19.3	19.3	24.3	24.1	24.0	20.4	20.3	20.2
		25	12	24.2	24.2	24.3	19.3	19.3	19.2	24.3	24.1	24.1	20.4	20.4	20.3
		25	24	24.2	24.2	24.3	19.3	19.4	19.2	24.2	24.1	24.3	20.4	20.4	20.4
	16QAM	50	0	24.3	24.2	24.3	19.2	19.3	19.2	24.3	24.1	24.1	20.4	20.3	20.3
		1	0	24.9	24.7	24.8	19.7	19.8	19.9	24.2	24.2	23.8	20.3	20.2	20.0
		1	24	24.6	24.6	24.8	19.8	19.7	19.7	24.2	24.1	23.9	20.2	20.3	20.0
		1	49	24.6	24.6	24.8	19.8	19.8	19.8	24.0	24.1	24.1	20.3	20.5	20.2
		25	0	23.5	23.4	23.4	18.3	18.4	18.4	23.3	23.0	22.9	19.4	19.3	19.2
		25	12	23.3	23.3	23.4	18.3	18.5	18.3	23.2	23.0	23.0	19.4	19.4	19.3
	64QAM	25	24	23.3	23.3	23.5	18.4	18.5	18.4	23.1	23.0	23.2	19.4	19.4	19.4
		50	0	23.3	23.3	23.4	18.3	18.4	18.3	23.2	23.0	23.1	19.4	19.3	19.3
		1	0	23.6	23.2	23.4	18.4	18.4	18.4	23.3	22.9	22.7	19.5	19.0	19.1
		1	24	23.4	23.1	23.3	18.4	18.4	18.3	23.2	22.9	22.8	19.5	19.2	19.2
		1	49	23.4	23.2	23.4	18.5	18.4	18.2	23.1	22.9	23.1	19.4	19.4	19.3
		25	0	22.3	22.0	22.1	17.2	17.2	17.1	22.3	22.1	22.0	18.6	18.3	18.4
		25	12	22.2	22.0	22.1	17.2	17.2	17.1	22.3	22.1	22.0	18.6	18.3	18.5
		25	24	22.1	22.0	22.2	17.3	17.2	17.1	22.2	22.1	22.2	18.6	18.4	18.6
		50	0	22.1	22.0	22.1	17.2	17.1	17.0	22.3	22.1	22.1	18.6	18.4	18.5

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	LAT 1			UAT 2			LAT 3			UAT 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
15.0	QPSK	1	0	25.4	25.2	25.5	20.4	20.3	20.4	25.0	24.8	24.8	21.2	21.1	21.1
		1	37	25.1	25.2	25.3	20.4	20.5	20.4	24.9	24.8	24.6	21.2	21.2	21.0
		1	74	25.0	25.4	25.3	20.3	20.4	20.3	24.6	24.8	24.9	21.1	21.2	21.2
		36	0	24.2	24.2	24.2	19.2	19.3	19.3	24.2	24.0	23.9	20.5	20.3	20.2
		36	16	24.1	24.2	24.2	19.2	19.3	19.2	24.1	24.1	24.0	20.5	20.4	20.3
		36	35	24.0	24.2	24.2	19.3	19.3	19.2	24.0	24.1	24.1	20.4	20.4	20.4
		75	0	24.1	24.2	24.3	19.3	19.3	19.3	24.1	24.1	24.1	20.5	20.4	20.4
	16QAM	1	0	24.8	24.5	24.9	19.8	19.6	19.8	24.1	24.0	23.9	20.4	20.0	20.2
		1	37	24.5	24.5	24.7	19.8	19.7	19.7	24.1	24.0	23.6	20.4	20.2	20.1
		1	74	24.5	24.5	24.7	19.7	19.7	19.7	23.8	24.0	23.9	20.3	20.3	20.2
		36	0	23.3	23.2	23.3	18.3	18.4	18.4	23.2	23.0	22.9	19.5	19.3	19.2
		36	16	23.1	23.2	23.3	18.3	18.4	18.4	23.1	23.0	22.9	19.4	19.4	19.2
		36	35	23.1	23.2	23.3	18.3	18.4	18.3	23.0	23.0	23.1	19.4	19.5	19.3
		75	0	23.2	23.2	23.3	18.3	18.4	18.4	23.1	23.0	23.1	19.4	19.4	19.3
	64QAM	1	0	23.5	23.2	23.4	18.5	18.4	18.5	23.3	23.1	23.0	19.5	19.2	19.5
		1	37	23.2	23.2	23.2	18.5	18.5	18.3	23.1	23.1	22.6	19.4	19.5	19.4
		1	74	23.2	23.2	23.2	18.4	18.5	18.3	22.8	23.1	23.1	19.4	19.6	19.6
		36	0	22.1	21.9	22.0	17.1	17.1	17.2	22.2	22.0	22.0	18.7	18.3	18.5
		36	16	22.0	21.9	22.0	17.2	17.2	17.1	22.2	22.1	22.0	18.6	18.5	18.5
		36	35	21.9	21.9	22.0	17.2	17.1	17.1	22.1	22.1	22.1	18.5	18.5	18.6
		75	0	22.0	21.9	22.0	17.2	17.1	17.1	22.1	22.1	22.1	18.6	18.4	18.5

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	LAT 1			UAT 2			LAT 3			UAT 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
20.0	QPSK	1	0	25.4	25.2	25.5	20.4	20.3	20.4	25.0	24.8	24.9	21.2	21.1	21.0
		1	49	25.0	25.1	25.2	20.4	20.5	20.4	24.8	24.7	24.7	21.1	21.1	20.8
		1	99	25.2	25.4	25.2	20.4	20.5	20.3	24.7	24.8	24.8	21.2	21.2	21.1
		50	0	24.2	24.1	24.3	19.3	19.3	19.3	23.7	23.6	23.7	20.5	20.3	20.2
		50	24	24.0	24.1	24.2	19.3	19.3	19.3	23.6	23.6	23.6	20.4	20.4	20.2
		50	49	23.9	24.1	24.1	19.2	19.3	19.3	23.5	23.6	23.7	20.3	20.4	20.4
		100	0	24.1	24.1	24.2	19.4	19.4	19.4	23.6	23.6	23.7	20.5	20.4	20.4
	16QAM	1	0	24.8	24.5	24.8	19.8	19.6	19.8	24.3	24.1	24.3	20.3	20.3	20.2
		1	49	24.5	24.4	24.5	19.8	19.8	19.7	24.1	24.0	24.0	20.3	20.3	20.0
		1	99	24.6	24.6	24.5	19.9	19.8	19.7	24.0	24.1	24.2	20.4	20.4	20.3
		50	0	23.2	23.1	23.4	18.3	18.4	18.4	22.8	22.6	22.8	19.4	19.3	19.2
		50	24	23.0	23.1	23.2	18.3	18.4	18.3	22.7	22.7	22.7	19.3	19.3	19.2
		50	49	22.9	23.1	23.2	18.2	18.4	18.3	22.6	22.7	22.8	19.3	19.4	19.3
		100	0	23.1	23.1	23.3	18.4	18.4	18.4	22.7	22.7	22.7	19.5	19.3	19.3
	64QAM	1	0	23.6	22.9	23.5	18.3	18.2	18.1	22.6	22.2	22.5	19.5	18.9	19.3
		1	49	23.2	22.8	23.2	18.4	18.3	18.1	22.4	22.3	22.3	19.5	19.1	19.2
		1	99	23.3	23.1	23.4	18.3	18.5	18.0	22.5	22.3	22.6	19.4	19.3	19.4
		50	0	22.0	21.8	22.1	16.9	16.9	16.9	21.6	21.5	21.5	18.6	18.3	18.4
		50	24	21.8	21.8	21.9	17.0	16.9	16.9	21.5	21.5	21.5	18.4	18.4	18.4
		50	49	21.7	21.8	22.0	16.9	16.9	16.9	21.4	21.5	21.5	18.3	18.5	18.5
		100	0	21.9	21.8	22.0	17.0	16.9	17.0	21.6	21.5	21.6	18.5	18.4	18.5

7.1.9. LTE BAND 26 (FCC Part 90S)

ID:	10646	Date:	7/23/18
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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26697	26740	26783	26697	26740	26783
				814.7	819.0	823.3	814.7	819.0	823.3
1.4	QPSK	1	0	25.4	25.5	25.5	24.4	24.4	24.5
		1	2	25.4	25.4	25.4	24.4	24.4	24.5
		1	5	25.4	25.4	25.4	24.5	24.4	24.5
		3	0	25.4	25.4	25.4	24.4	24.4	24.5
		3	1	25.4	25.4	25.4	24.4	24.4	24.5
		3	2	25.3	25.4	25.4	24.4	24.4	24.5
	16QAM	6	0	24.3	24.4	24.4	23.4	23.4	23.5
		1	0	24.6	24.8	24.7	23.7	23.7	23.9
		1	2	24.6	24.8	24.7	23.7	23.7	23.9
		1	5	24.6	24.9	24.7	23.8	23.7	23.8
		3	0	24.5	24.6	24.6	23.6	23.6	23.7
		3	1	24.5	24.6	24.6	23.6	23.6	23.6
	64QAM	3	2	24.5	24.5	24.6	23.6	23.6	23.6
		6	0	23.5	23.5	23.6	22.5	22.6	22.6
		1	0	24.5	23.8	23.5	22.8	22.8	22.9
		1	2	24.7	23.7	23.5	22.8	22.8	22.8
		1	5	24.6	23.6	23.5	22.9	22.8	22.9
		3	0	24.5	23.6	23.3	22.7	22.7	22.7
	64QAM	3	1	24.4	23.6	23.3	22.7	22.6	22.6
		3	2	24.4	23.5	23.3	22.8	22.7	22.6
		6	0	23.4	22.4	22.3	21.8	21.7	21.5

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26705	26740	26775	26705	26740	26775
				815.5	819.0	822.5	815.5	819.0	822.5
3.0	QPSK	1	0	25.5	25.4	25.5	24.4	24.4	24.5
		1	7	25.5	25.4	25.5	24.5	24.4	24.5
		1	14	25.5	25.4	25.4	24.4	24.4	24.4
		8	0	24.5	24.5	24.5	23.4	23.4	23.4
		8	4	24.4	24.5	24.5	23.5	23.4	23.4
		8	7	24.4	24.4	24.5	23.5	23.4	23.4
	16QAM	15	0	24.4	24.4	24.5	23.5	23.4	23.4
		1	0	24.8	24.8	24.9	23.8	23.8	23.7
		1	7	24.8	24.8	24.9	23.9	23.8	23.8
		1	14	24.8	24.7	24.8	23.8	23.7	23.7
		8	0	23.5	23.6	23.5	22.5	22.5	22.5
		8	4	23.5	23.6	23.6	22.5	22.5	22.5
	64QAM	8	7	23.6	23.5	23.6	22.5	22.5	22.5
		15	0	23.5	23.4	23.6	22.5	22.5	22.5
		1	0	23.7	23.8	23.6	22.4	22.2	22.4
		1	7	23.7	23.7	23.6	22.5	22.4	22.3
		1	14	23.8	23.6	23.6	22.5	22.2	22.3
		8	0	22.5	22.6	22.4	21.3	21.2	21.2
	64QAM	8	4	22.5	22.6	22.4	21.3	21.3	21.2
		8	7	22.5	22.5	22.4	21.4	21.2	21.1
		15	0	22.5	22.4	22.4	21.3	21.2	21.1

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26715	26740	26765	26715	26740	26765
				816.5	819.0	821.5	816.5	819.0	821.5
5.0	QPSK	1	0	25.4	25.5	25.4	24.4	24.5	24.4
		1	12	25.3	25.3	25.3	24.3	24.4	24.3
		1	24	25.4	25.3	25.3	24.4	24.4	24.4
		12	0	24.4	24.3	24.4	23.4	23.3	23.4
		12	6	24.4	24.3	24.4	23.4	23.3	23.4
		12	11	24.4	24.3	24.4	23.4	23.3	23.4
		25	0	24.4	24.3	24.4	23.4	23.4	23.4
	16QAM	1	0	24.7	24.8	24.8	23.8	23.8	23.9
		1	12	24.7	24.6	24.8	23.8	23.7	23.8
		1	24	24.7	24.7	24.9	23.8	23.7	23.9
		12	0	23.5	23.6	23.5	22.6	22.5	22.6
		12	6	23.6	23.6	23.5	22.6	22.5	22.5
		12	11	23.6	23.5	23.5	22.5	22.5	22.6
		25	0	23.6	23.5	23.5	22.5	22.5	22.5
	64QAM	1	0	23.7	23.7	23.6	22.4	22.3	22.5
		1	12	23.7	23.5	23.5	22.4	22.3	22.4
		1	24	23.7	23.5	23.5	22.4	22.4	22.4
		12	0	22.5	22.5	22.4	21.2	21.2	21.2
		12	6	22.5	22.4	22.4	21.2	21.3	21.1
		12	11	22.5	22.4	22.4	21.2	21.3	21.1
		25	0	22.4	22.4	22.3	21.3	21.3	21.1

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	26740	N/A	N/A	26740	N/A
				N/A	819.0	N/A	N/A	819.0	N/A
10.0	QPSK	1	0		25.5			24.5	
		1	24		25.5			24.4	
		1	49		25.5			24.5	
		25	0		24.4			23.3	
		25	12		24.4			23.3	
		25	24		24.4			23.3	
		50	0		24.3			23.2	
	16QAM	1	0		24.8			23.7	
		1	24		24.8			23.7	
		1	49		24.8			23.7	
		25	0		23.6			22.5	
		25	12		23.6			22.5	
		25	24		23.5			22.5	
		50	0		23.4			22.4	
	64QAM	1	0		23.8			22.4	
		1	24		23.6			22.3	
		1	49		23.5			22.5	
		25	0		22.6			21.2	
		25	12		22.5			21.1	
		25	24		22.4			21.2	
		50	0		22.4			21.1	

7.1.10. LTE BAND 30

ID:	10646	Date:	7/23/18
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OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				27685	27710	27735	27685	27710	27735	27685	27710	27735	27685	27710	27735
				2307.5	2310.0	2312.5	2307.5	2310.0	2312.5	2307.5	2310.0	2312.5	2307.5	2310.0	2312.5
5.0	QPSK	1	0	23.3	23.5	23.4	20.5	20.5	20.5	23.5	23.4	23.3	20.0	19.9	19.8
		1	12	23.3	23.4	23.3	20.5	20.5	20.4	23.4	23.4	23.3	19.9	19.9	19.8
		1	24	23.3	23.4	23.4	20.5	20.5	20.5	23.4	23.4	23.3	19.9	19.9	19.8
		12	0	22.2	22.5	22.4	20.4	20.4	20.4	22.4	22.3	22.3	18.9	18.8	18.8
		12	6	22.2	22.5	22.3	20.4	20.4	20.4	22.3	22.3	22.3	18.8	18.8	18.7
		12	11	22.2	22.4	22.3	20.4	20.4	20.5	22.3	22.3	22.2	18.8	18.8	18.7
		25	0	22.2	22.4	22.4	20.4	20.4	20.4	22.4	22.3	22.2	18.9	18.8	18.8
	16QAM	1	0	22.7	22.9	22.7	19.5	19.4	19.4	22.9	22.9	22.6	19.5	19.2	19.2
		1	12	22.7	22.7	22.7	19.4	19.3	19.3	22.8	22.8	22.6	19.4	19.2	19.2
		1	24	22.6	22.6	22.8	19.5	19.2	19.4	22.8	22.8	22.7	19.4	19.2	19.2
		12	0	21.2	21.3	21.4	18.8	18.7	18.8	21.4	21.3	21.3	17.8	17.8	17.8
		12	6	21.2	21.2	21.3	18.8	18.8	18.8	21.3	21.3	21.2	17.8	17.8	17.7
		12	11	21.2	21.2	21.4	18.8	18.8	18.8	21.3	21.3	21.2	17.8	17.8	17.7
		25	0	21.2	21.2	21.3	18.8	18.8	18.8	21.3	21.3	21.2	17.8	17.8	17.8
	64QAM	1	0	21.0	21.2	21.1	18.2	18.2	18.2	21.8	21.8	21.6	18.7	18.6	18.5
		1	12	21.1	21.0	21.2	18.1	18.2	18.2	21.7	21.8	21.5	18.6	18.5	18.4
		1	24	21.1	21.0	21.2	18.2	18.4	18.2	21.7	21.7	21.6	18.6	18.5	18.5
		12	0	19.7	19.8	19.6	16.7	16.7	16.8	20.4	20.3	20.2	17.2	17.1	17.2
		12	6	19.7	19.7	19.7	16.7	16.7	16.8	20.3	20.3	20.2	17.2	17.1	17.1
		12	11	19.7	19.7	19.7	16.7	16.7	16.7	20.3	20.3	20.2	17.2	17.1	17.1
		25	0	19.7	19.7	19.7	16.7	16.7	16.8	20.3	20.3	20.2	17.2	17.1	17.1

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A
				N/A	2310.0	N/A	N/A	2310.0	N/A	N/A	2310.0	N/A	N/A	2310.0	N/A
10.0	QPSK	1	0		23.5			20.5			23.5			20.0	
		1	24		23.4			20.5			23.4			20.0	
		1	49		23.4			20.4			23.5			19.9	
		25	0		22.5			20.4			22.5			19.0	
		25	12		22.4			20.5			22.4			18.9	
		25	24		22.4			20.5			22.4			18.9	
		50	0		22.4			20.4			22.4			18.9	
	16QAM	1	0		22.8			19.5			23.0			19.4	
		1	24		22.8			19.4			22.8			19.3	
		1	49		22.6			19.4			22.8			19.3	
		25	0		21.5			19.0			21.5			18.0	
		25	12		21.5			19.0			21.5			18.0	
		25	24		21.5			19.0			21.5			17.9	
		50	0		21.5			19.0			21.5			18.0	
	64QAM	1	0		21.2			18.1			21.8			18.6	
		1	24		21.1			18.1			21.7			18.6	
		1	49		21.1			18.3			21.6			18.5	
		25	0		20.0			17.0			20.5			17.4	
		25	12		20.0			17.0			20.5			17.4	
		25	24		20.0			17.0			20.5			17.3	
		50	0		20.0			17.0			20.5			17.4	

7.1.11. LTE BAND 41

ID:	10646	Date:	7/24/18
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OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
5.0	QPSK	1	0	24.0	26.8	26.4	19.1	22.0	21.9	23.5	26.5	26.3	19.6	21.8	22.1
		1	12	26.9	26.7	26.3	22.2	22.0	21.9	26.4	26.3	26.2	22.5	21.7	22.2
		1	24	27.0	26.8	26.3	22.1	22.0	21.8	26.4	26.4	26.3	22.4	21.8	22.1
		12	0	23.0	25.8	25.4	18.1	21.1	20.9	22.4	25.4	25.3	18.6	20.8	21.2
		12	6	22.9	25.7	25.4	18.1	21.0	20.9	22.4	25.4	25.3	18.5	20.8	21.2
		12	11	25.9	25.7	25.4	21.1	21.0	20.9	25.4	25.4	25.3	21.5	20.8	21.2
	16QAM	25	0	23.0	25.8	25.4	18.2	21.1	20.9	22.4	25.4	25.3	18.5	20.8	21.3
		1	0	23.3	26.0	25.6	18.4	21.4	21.2	22.7	25.7	25.5	18.8	21.0	21.3
		1	12	26.1	26.0	25.6	21.4	21.4	21.1	25.5	25.6	25.5	21.6	20.9	21.3
		1	24	26.1	26.0	25.5	21.4	21.4	21.1	25.6	25.7	25.5	21.5	20.9	21.3
		12	0	22.0	24.8	24.4	17.2	20.1	19.9	21.5	24.5	24.3	17.5	19.8	20.2
		12	6	21.9	24.8	24.4	17.1	20.1	19.9	21.4	24.4	24.3	17.5	19.8	20.2
	64QAM	12	11	24.9	24.7	24.4	20.1	20.1	19.9	24.4	24.4	24.3	20.4	19.8	20.2
		25	0	22.0	24.8	24.4	17.2	20.1	19.9	21.4	24.5	24.3	17.5	19.8	20.2
		1	0	22.3	25.0	24.6	17.3	20.4	20.1	21.6	24.7	24.4	17.7	20.0	20.3
		1	12	25.0	25.0	24.6	20.1	20.2	20.1	24.5	24.6	24.4	20.5	20.0	20.3
		1	24	25.0	25.0	24.5	20.2	20.3	20.0	24.6	24.7	24.4	20.5	20.0	20.3
		12	0	21.1	23.8	23.5	16.1	19.0	18.9	20.5	23.5	23.2	16.7	18.8	19.3
		12	6	21.0	23.8	23.4	16.0	19.0	18.9	20.5	23.4	23.2	16.6	18.8	19.2
		12	11	23.9	23.8	23.4	19.0	19.1	18.9	23.4	23.5	23.2	19.5	18.8	19.3
		25	0	21.0	23.8	23.4	16.0	19.1	18.9	20.5	23.4	23.2	16.6	18.8	19.2

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39700	40620	41540	39700	40620	41540	39700	40620	41540	39700	40620	41540
10.0	QPSK	1	0	2501.0	2593.0	2685.0	2501.0	2593.0	2685.0	2501.0	2593.0	2685.0	2501.0	2593.0	2685.0
		1	24	22.0	26.7	26.4	17.2	22.1	21.9	21.5	26.5	26.2	17.6	21.9	22.2
		1	49	26.9	26.7	26.3	22.2	22.0	21.9	26.4	26.4	26.2	22.5	21.9	22.2
		1	49	27.0	26.7	26.3	22.1	22.0	21.8	26.4	26.4	26.2	22.5	21.9	22.2
		25	0	23.0	25.8	25.4	18.3	21.1	21.1	22.5	25.5	25.3	18.7	21.0	21.3
		25	12	25.9	25.7	25.4	21.2	21.1	21.0	25.4	25.5	25.2	21.5	21.0	21.3
	16QAM	25	24	25.0	25.8	25.4	20.1	21.1	21.0	24.4	25.5	25.3	20.5	20.9	21.3
		50	0	23.0	25.8	25.4	18.2	21.1	21.0	22.4	25.5	25.2	18.5	20.9	21.3
		1	0	21.4	25.9	25.6	16.6	21.3	21.2	20.8	25.7	25.4	16.9	21.0	21.3
		1	24	26.0	25.9	25.5	21.3	21.3	21.2	25.5	25.6	25.4	21.5	20.9	21.4
		1	49	26.1	25.9	25.5	21.4	21.3	21.1	25.5	25.6	25.4	21.6	21.0	21.3
		25	0	22.1	24.9	24.5	17.4	20.2	20.1	21.5	24.6	24.3	17.7	20.0	20.3
	64QAM	25	12	25.0	24.9	24.5	20.3	20.2	20.1	24.5	24.5	24.3	20.6	20.0	20.3
		25	24	24.1	24.9	24.5	19.3	20.2	20.1	23.5	24.6	24.4	19.5	20.0	20.3
		50	0	22.1	24.9	24.5	17.3	20.2	20.1	21.5	24.5	24.3	17.6	20.0	20.3
		1	0	20.2	24.9	24.5	15.5	20.3	20.1	20.0	24.8	24.4	16.0	19.9	20.2
		1	24	24.9	24.8	24.4	20.2	20.2	20.0	24.5	24.7	24.4	20.3	19.9	20.3
		1	49	25.0	24.9	24.4	20.3	20.3	20.0	24.6	24.7	24.4	20.5	20.0	20.3
		25	0	21.1	23.9	23.5	16.3	19.3	19.1	20.6	23.6	23.4	16.8	19.1	19.4
		25	12	24.0	23.9	23.5	19.2	19.3	19.1	23.5	23.5	23.4	19.6	19.0	19.4
		25	24	23.1	23.9	23.5	18.1	19.3	19.1	22.5	23.6	23.4	18.6	19.0	19.4
		50	0	21.1	23.9	23.5	16.2	19.2	19.1	20.6	23.5	23.4	16.6	19.0	19.4

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
15.0	QPSK	1	0	22.0	26.8	26.5	17.3	22.2	22.0	21.6	26.5	26.3	17.7	22.0	22.3
		1	37	27.0	26.8	26.4	22.2	22.2	22.0	26.4	26.4	26.2	22.5	21.8	22.2
		1	74	27.0	26.7	26.3	22.1	22.1	21.9	26.4	26.4	26.2	22.5	21.8	22.2
		36	0	22.0	25.8	25.6	17.4	21.3	21.1	21.6	25.6	25.4	17.7	21.0	21.3
		36	16	26.1	25.8	25.5	21.3	21.3	21.1	25.5	25.5	25.4	21.6	21.0	21.4
		36	35	23.0	25.8	25.5	18.2	21.2	21.1	22.5	25.5	25.4	18.6	21.0	21.4
		75	0	22.1	25.8	25.5	17.3	21.2	21.1	21.5	25.5	25.4	17.5	21.0	21.3
	16QAM	1	0	21.3	25.8	25.7	16.5	21.5	21.3	20.7	25.7	25.4	16.8	21.0	21.2
		1	37	26.1	25.8	25.6	21.4	21.4	21.2	25.6	25.6	25.4	21.5	20.9	21.3
		1	74	26.0	25.8	25.5	21.3	21.4	21.1	25.5	25.6	25.4	21.6	20.9	21.2
		36	0	21.1	24.9	24.6	16.5	20.3	20.2	20.7	24.6	24.4	16.7	20.0	20.4
		36	16	25.1	24.9	24.6	20.3	20.3	20.2	24.6	24.6	24.4	20.6	20.0	20.4
		36	35	22.1	24.9	24.5	17.4	20.3	20.2	21.6	24.6	24.4	17.6	20.0	20.4
		75	0	21.2	24.9	24.5	16.3	20.3	20.2	20.6	24.6	24.4	16.6	20.0	20.4
	64QAM	1	0	20.4	25.0	24.8	20.3	20.4	20.3	20.0	24.7	24.5	16.2	20.1	20.3
		1	37	25.1	25.0	24.7	20.3	20.3	20.3	24.6	24.7	24.4	20.5	20.1	20.3
		1	74	25.2	25.0	24.5	20.3	20.4	20.3	24.6	24.6	24.5	20.6	20.1	20.4
		36	0	20.1	23.9	23.7	19.3	19.3	19.3	19.6	23.6	23.3	15.7	19.1	19.4
		36	16	24.1	24.0	23.6	19.2	19.3	19.2	23.5	23.5	23.3	19.6	19.1	19.4
		36	35	21.2	23.9	23.6	19.2	19.3	19.2	20.5	23.5	23.3	16.6	19.1	19.4
		75	0	20.2	23.9	23.6	19.2	19.3	19.2	19.5	23.5	23.3	15.6	19.1	19.4

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
20.0	QPSK	1	0	22.1	26.8	26.5	17.3	22.2	21.9	18.9	25.6	26.5	17.9	22.1	22.4
		1	49	27.0	26.8	26.5	22.1	22.1	21.9	24.4	25.6	26.3	22.5	22.0	22.3
		1	99	27.0	26.7	26.4	22.2	22.1	21.9	24.7	25.6	26.4	22.5	22.0	22.4
		50	0	22.0	25.8	25.5	17.2	21.3	21.0	19.2	24.8	25.5	17.6	21.1	21.4
		50	24	26.0	25.8	25.5	21.2	21.2	21.0	23.4	24.8	25.4	21.6	21.1	21.4
		50	49	23.0	25.8	25.5	18.2	21.2	20.9	20.6	24.8	25.5	18.6	21.0	21.4
		100	0	22.1	25.8	25.6	17.3	21.2	21.0	19.4	24.7	25.5	17.6	21.1	21.5
	16QAM	1	0	21.4	26.0	25.7	16.6	21.5	21.2	18.2	24.8	25.7	17.1	21.3	21.5
		1	49	26.2	26.0	25.7	21.4	21.4	21.2	23.6	24.7	25.7	21.7	21.2	21.5
		1	99	26.2	26.0	25.6	21.5	21.4	21.2	23.8	24.7	25.7	21.8	21.3	21.6
		50	0	21.1	24.9	24.6	16.4	20.4	20.1	18.3	23.8	24.5	16.7	20.2	20.5
		50	24	25.1	24.9	24.6	20.3	20.3	20.1	22.5	23.9	24.5	20.6	20.1	20.5
		50	49	22.2	24.9	24.5	17.3	20.3	20.0	19.6	23.8	24.5	17.7	20.1	20.5
		100	0	21.2	24.9	24.7	16.3	20.3	20.1	18.4	23.8	24.6	16.6	20.1	20.5
	64QAM	1	0	20.4	24.9	24.8	15.1	19.9	19.7	22.8	23.9	24.6	16.2	20.2	20.5
		1	49	25.0	25.0	24.7	19.8	19.9	19.7	23.6	23.8	24.5	20.6	20.1	20.3
		1	99	25.1	24.9	24.6	19.9	19.8	19.7	23.8	23.7	24.6	20.8	20.2	20.5
		50	0	20.1	24.0	23.7	14.9	18.8	18.7	22.2	22.8	23.5	15.8	19.2	19.5
		50	24	24.1	23.9	23.7	18.7	18.8	18.7	22.4	22.8	23.5	19.7	19.1	19.5
		50	49	21.2	23.9	23.6	15.8	18.8	18.7	22.6	22.9	23.5	16.8	19.1	19.5
		100	0	20.2	24.0	23.7	14.8	18.8	18.7	22.4	22.8	23.6	15.7	19.2	19.5

7.1.12. LTE BAND 66

ID:	50820	Date:	7/24/18
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OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average (dBm)			Conducted Average (dBm)			Conducted Average (dBm)			Conducted Average (dBm)		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	QPSK	1	0	25.5	25.5	25.5	20.9	21.5	21.5	24.6	24.7	24.7	21.8	22.0	21.8
		1	2	25.4	25.4	25.5	20.8	21.4	21.4	24.5	24.6	24.6	21.7	21.9	21.8
		1	5	25.5	25.4	25.4	20.7	21.4	21.4	24.6	24.7	24.6	21.8	22.0	21.8
		3	0	25.5	25.5	25.5	20.9	21.5	21.4	24.6	24.7	24.6	21.7	22.0	21.8
		3	1	25.5	25.5	25.4	20.9	21.5	21.4	24.6	24.7	24.6	21.7	22.0	21.8
		3	2	25.5	25.5	25.5	20.9	21.5	21.4	24.6	24.7	24.6	21.7	22.0	21.8
	16QAM	6	0	24.5	24.5	24.5	20.9	21.1	21.2	23.6	23.7	23.6	20.8	20.9	20.8
		1	0	24.7	24.6	24.8	20.1	20.8	20.7	23.9	23.9	23.8	21.0	21.3	21.0
		1	2	24.7	24.6	24.7	20.1	20.7	20.7	23.8	23.9	23.9	21.0	21.3	21.0
		1	5	24.7	24.6	24.7	20.0	20.7	20.7	23.9	24.0	24.0	21.0	21.3	21.0
		3	0	24.5	24.6	24.6	20.1	20.6	20.5	23.7	23.8	23.7	20.8	21.1	20.9
		3	1	24.5	24.6	24.6	20.0	20.6	20.6	23.6	23.8	23.8	20.8	21.1	20.9
	64QAM	3	2	24.5	24.6	24.6	20.1	20.6	20.5	23.6	23.8	23.7	20.8	21.0	20.9
		6	0	23.5	23.6	23.6	20.0	20.1	20.2	22.7	22.8	22.7	19.8	20.0	19.9
		1	0	23.8	23.7	23.7	20.1	20.4	20.2	22.1	22.7	22.7	17.0	17.3	17.4
		1	2	23.7	23.6	23.6	20.1	20.3	20.2	22.1	22.6	22.7	17.1	17.2	17.5
		1	5	23.8	23.7	23.7	20.1	20.3	20.2	22.1	22.7	22.7	17.1	17.2	17.4
		3	0	23.6	23.5	23.5	20.0	20.1	20.1	22.0	22.5	22.6	17.0	17.1	17.3
		3	1	23.6	23.5	23.5	20.0	20.2	20.0	22.0	22.5	22.5	17.0	17.1	17.3
		3	2	23.6	23.5	23.4	20.0	20.1	20.0	22.0	22.5	22.5	16.9	17.1	17.3
		6	0	22.5	22.5	22.5	19.0	19.2	18.9	21.3	21.6	21.4	16.0	16.1	16.2

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
3.0	QPSK	1	0	25.3	25.4	25.4	21.1	21.3	21.4	24.5	24.7	24.6	21.7	22.0	21.8
		1	7	25.3	25.4	25.4	20.7	21.4	21.2	24.6	24.7	24.7	21.7	21.9	21.8
		1	14	25.3	25.3	25.3	20.5	21.2	21.2	24.5	24.7	24.6	21.7	21.9	21.8
		8	0	24.4	24.4	24.4	20.9	21.0	21.2	23.5	23.7	23.7	20.7	20.9	20.8
		8	4	24.4	24.4	24.4	20.8	21.0	21.1	23.6	23.7	23.6	20.7	20.9	20.8
		8	7	24.4	24.4	24.4	20.7	21.0	21.1	23.6	23.7	23.6	20.7	20.9	20.8
	16QAM	15	0	24.4	24.4	24.4	20.8	21.0	21.1	23.6	23.7	23.7	20.7	20.9	20.8
		1	0	24.5	24.6	24.6	20.2	20.6	20.5	23.7	23.9	24.0	21.0	21.1	21.1
		1	7	24.6	24.6	24.7	19.9	20.7	20.6	23.8	24.0	24.0	21.0	21.3	21.1
		1	14	24.5	24.6	24.6	19.8	20.5	20.5	23.8	23.9	23.9	21.0	21.3	21.1
		8	0	23.4	23.5	23.4	20.0	20.1	20.2	22.7	22.8	22.8	19.8	20.0	19.9
		8	4	23.4	23.5	23.5	20.0	20.1	20.2	22.7	22.7	22.7	19.8	20.0	19.9
	64QAM	8	7	23.4	23.4	23.5	19.9	20.0	20.1	22.7	22.8	22.7	19.8	20.0	19.9
		15	0	23.4	23.4	23.5	19.9	20.1	20.2	22.6	22.7	22.7	19.7	20.0	19.9
		1	0	23.6	23.6	23.7	20.0	20.3	20.1	22.2	22.5	22.4	17.0	17.2	17.3
		1	7	23.6	23.5	23.5	20.2	20.3	20.1	22.1	22.7	22.4	17.2	17.2	17.2
		1	14	23.6	23.6	23.4	20.0	20.3	20.1	21.8	22.7	22.6	17.2	17.1	17.1
		8	0	22.5	22.4	22.4	19.0	19.1	18.8	21.2	21.6	21.4	16.1	16.1	16.1
		8	4	22.5	22.5	22.4	19.0	19.1	18.9	21.2	21.6	21.4	16.1	16.1	16.1
		8	7	22.5	22.5	22.4	19.0	19.1	18.9	21.2	21.6	21.3	16.1	16.1	16.1
		15	0	22.4	22.4	22.3	18.9	19.1	18.8	21.2	21.6	21.3	16.0	16.1	16.1

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
5.0	QPSK	1	0	25.1	25.2	25.3	21.4	21.4	21.3	24.6	24.7	24.8	21.2	21.5	21.2
		1	12	25.1	25.2	25.3	21.3	21.3	21.2	24.5	24.8	24.8	21.0	21.5	21.2
		1	24	25.1	25.3	25.3	21.3	21.3	21.2	24.6	24.8	24.8	21.0	21.5	21.3
		12	0	24.2	24.2	24.4	20.4	20.3	20.3	23.8	24.0	23.9	20.4	20.6	20.5
		12	6	24.2	24.2	24.3	20.3	20.3	20.3	23.8	24.0	23.8	20.3	20.6	20.5
		12	11	24.2	24.2	24.3	20.3	20.3	20.3	23.8	23.9	23.8	20.3	20.6	20.4
		25	0	24.2	24.2	24.3	20.4	20.3	20.3	23.8	24.0	23.9	20.4	20.7	20.5
	16QAM	1	0	24.5	24.6	24.7	20.7	20.7	20.7	23.9	24.0	24.0	20.4	20.8	20.5
		1	12	24.5	24.5	24.6	20.7	20.7	20.6	23.9	24.1	23.9	20.3	20.7	20.5
		1	24	24.5	24.6	24.7	20.8	20.7	20.6	23.9	24.1	24.0	20.3	20.7	20.6
		12	0	23.3	23.4	23.5	19.5	19.5	19.4	22.9	23.0	23.1	19.4	19.8	19.5
		12	6	23.3	23.4	23.5	19.5	19.5	19.4	22.9	23.0	23.0	19.4	19.8	19.5
		12	11	23.3	23.4	23.4	19.5	19.5	19.4	22.9	23.1	23.0	19.4	19.8	19.5
		25	0	23.2	23.4	23.4	19.5	19.5	19.3	22.8	23.0	23.0	19.4	19.8	19.5
	64QAM	1	0	23.1	23.3	23.2	20.0	20.4	20.2	22.6	22.9	22.8	19.9	20.2	20.1
		1	12	23.0	23.2	23.2	20.0	20.4	20.1	22.6	22.9	22.8	19.8	20.2	20.1
		1	24	23.1	23.2	23.2	19.9	20.4	20.2	22.6	23.0	22.9	19.8	20.1	20.1
		12	0	21.8	21.9	22.0	19.1	19.3	19.1	21.7	21.9	22.0	19.0	19.1	19.1
		12	6	21.8	21.9	22.0	19.1	19.3	19.1	21.7	21.9	21.9	19.0	19.1	19.2
		12	11	21.9	21.9	22.0	19.1	19.2	19.1	21.7	21.9	21.8	19.0	19.1	19.1
		25	0	21.8	21.8	22.0	19.0	19.2	19.0	21.7	21.9	21.8	18.9	19.1	19.1

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
10.0	QPSK	1	0	25.3	25.2	25.4	21.4	21.4	21.4	24.5	24.7	24.8	21.1	21.6	21.3
		1	24	25.1	25.2	25.3	21.3	21.2	21.2	24.6	24.8	24.8	21.0	21.5	21.2
		1	49	25.1	25.3	25.3	21.3	21.3	21.2	24.6	24.9	24.8	21.1	21.5	21.2
		25	0	24.1	24.2	24.3	20.3	20.2	20.2	23.8	23.9	23.9	20.3	20.6	20.3
		25	12	24.1	24.2	24.2	20.2	20.3	20.1	23.8	24.0	23.9	20.2	20.6	20.3
		25	24	24.0	24.2	24.2	20.2	20.3	20.1	23.8	24.0	23.9	20.2	20.6	20.3
		50	0	24.0	24.1	24.2	20.3	20.2	20.1	23.8	23.9	23.9	20.3	20.6	20.3
	16QAM	1	0	24.6	24.6	24.7	20.7	20.8	20.7	23.8	24.1	24.0	20.3	20.8	20.5
		1	24	24.5	24.6	24.6	20.7	20.7	20.5	23.8	24.1	24.0	20.2	20.7	20.3
		1	49	24.4	24.7	24.6	20.7	20.7	20.5	23.8	24.2	24.0	20.3	20.7	20.4
		25	0	23.3	23.3	23.4	19.4	19.3	19.4	22.8	23.0	23.0	19.3	19.7	19.4
		25	12	23.2	23.3	23.4	19.4	19.4	19.3	22.8	23.0	23.0	19.3	19.7	19.4
		25	24	23.2	23.3	23.3	19.4	19.4	19.3	22.8	23.0	23.0	19.3	19.7	19.4
		50	0	23.1	23.2	23.3	19.4	19.3	19.2	22.8	23.0	22.9	19.3	19.7	19.4
	64QAM	1	0	23.2	23.1	23.3	20.2	20.2	20.2	22.7	22.8	22.8	20.0	20.1	20.0
		1	24	23.1	23.0	23.2	20.2	20.2	20.0	22.6	22.8	22.7	19.9	20.1	20.0
		1	49	23.1	23.1	23.2	20.2	20.2	20.0	22.7	22.9	22.8	19.9	20.0	20.0
		25	0	22.0	21.8	21.9	19.2	19.2	19.1	21.7	21.8	21.8	18.9	19.1	19.1
		25	12	22.0	21.8	21.9	19.2	19.2	19.0	21.7	21.9	21.8	18.9	19.1	19.1
		25	24	22.0	21.9	21.9	19.2	19.2	19.0	21.7	21.9	21.8	18.9	19.1	19.1
		50	0	21.9	21.8	21.8	19.2	19.2	19.0	21.6	21.8	21.8	18.9	19.1	19.0

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	QPSK	1	0	25.4	25.3	25.3	21.4	21.3	21.5	24.6	24.7	24.7	21.2	21.5	21.4
		1	37	25.2	25.3	25.2	21.3	21.3	21.2	24.6	24.8	24.7	21.0	21.5	21.2
		1	74	25.1	25.3	25.3	21.3	21.3	21.1	24.6	24.9	24.7	21.2	21.4	21.2
		36	0	24.3	24.2	24.2	20.2	20.2	20.3	23.7	23.9	23.9	20.2	20.6	20.3
		36	16	24.1	24.2	24.2	20.2	20.2	20.2	23.7	23.9	23.9	20.2	20.6	20.3
		36	35	24.0	24.1	24.1	20.2	20.2	20.1	23.7	23.9	23.9	20.2	20.5	20.3
		75	0	24.1	24.2	24.2	20.2	20.3	20.1	23.7	23.9	23.9	20.3	20.6	20.3
	16QAM	1	0	24.8	24.6	24.6	20.8	20.7	20.7	23.8	23.9	23.9	20.3	20.7	20.7
		1	37	24.6	24.5	24.6	20.7	20.7	20.5	23.8	24.1	23.8	20.2	20.6	20.4
		1	74	24.5	24.5	24.7	20.6	20.7	20.4	23.8	24.1	23.9	20.4	20.5	20.4
		36	0	23.4	23.3	23.3	19.3	19.4	19.4	22.7	22.9	22.9	19.3	19.7	19.4
		36	16	23.2	23.2	23.3	19.3	19.3	19.3	22.8	23.0	22.9	19.3	19.7	19.4
		36	35	23.1	23.2	23.2	19.3	19.4	19.2	22.8	23.0	22.9	19.3	19.6	19.3
		75	0	23.1	23.2	23.3	19.3	19.3	19.2	22.7	22.9	22.9	19.3	19.6	19.4
	64QAM	1	0	23.2	23.2	23.3	20.0	20.3	20.3	22.7	22.9	22.8	19.9	19.0	20.0
		1	37	23.1	23.1	23.2	19.9	20.4	20.1	22.7	23.0	22.8	19.9	20.3	20.0
		1	74	23.2	23.2	23.0	19.9	20.4	19.9	22.7	23.1	22.7	20.1	20.2	20.0
		36	0	21.9	21.8	22.0	19.0	19.1	19.2	21.6	21.8	21.8	18.9	20.2	19.0
		36	16	21.9	21.8	21.9	18.9	19.2	19.0	21.6	21.8	21.8	18.9	19.1	19.1
		36	35	21.8	21.8	21.9	18.9	19.2	18.9	21.6	21.9	21.8	18.9	19.1	19.0
		75	0	21.8	21.8	21.8	18.9	19.1	18.9	21.6	21.8	21.8	18.9	19.0	19.0

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	QPSK	1	0	25.4	25.3	25.3	21.4	21.3	21.5	24.6	24.7	24.8	21.2	21.6	21.4
		1	49	25.3	25.3	25.2	21.3	21.3	21.3	24.6	24.9	24.7	21.1	21.6	21.2
		1	99	25.2	25.4	25.3	21.3	21.4	21.2	24.7	25.0	24.8	21.4	21.5	21.2
		50	0	24.3	24.2	24.3	20.3	20.2	20.4	23.8	23.9	24.0	20.3	20.6	20.4
		50	24	24.2	24.2	24.2	20.2	20.2	20.2	23.8	23.9	24.0	20.3	20.6	20.4
		50	49	24.0	24.2	24.3	20.2	20.2	20.1	23.8	24.0	23.9	20.3	20.6	20.3
		100	0	24.2	24.2	24.2	20.3	20.2	20.3	23.8	24.0	24.0	20.4	20.6	20.4
	16QAM	1	0	24.7	24.7	24.7	20.8	20.6	20.8	23.9	24.0	24.1	20.4	20.8	20.7
		1	49	24.6	24.7	24.5	20.7	20.6	20.7	23.9	24.1	24.1	20.3	20.8	20.5
		1	99	24.5	24.8	24.6	20.7	20.7	20.6	23.9	24.2	24.1	20.6	20.7	20.4
		50	0	23.4	23.3	23.3	19.3	19.3	19.4	22.8	22.9	23.0	19.3	19.7	19.5
		50	24	23.2	23.2	23.2	19.3	19.3	19.3	22.8	23.0	23.0	19.3	19.7	19.4
		50	49	23.1	23.2	23.3	19.3	19.3	19.2	22.8	23.0	23.0	19.4	19.6	19.4
		100	0	23.2	23.2	23.2	19.4	19.3	19.3	22.8	23.0	23.0	19.4	19.7	19.4
	64QAM	1	0	23.3	23.0	23.4	20.0	20.0	20.4	22.7	22.6	22.9	20.0	20.0	20.2
		1	49	23.2	22.9	23.3	19.9	20.1	20.1	22.7	22.8	22.9	20.0	20.0	20.1
		1	99	23.3	23.0	23.2	20.1	20.3	19.9	22.8	22.9	22.9	20.2	20.0	20.1
		50	0	21.8	21.8	22.0	19.0	19.2	19.2	21.6	21.8	21.8	18.9	19.1	19.0
		50	24	21.7	21.8	21.9	19.0	19.2	19.1	21.6	21.8	21.8	18.9	19.1	19.0
		50	49	21.8	21.8	21.8	19.0	19.2	18.9	21.6	21.8	21.8	18.9	19.0	19.0
		100	0	21.8	21.8	22.0	19.0	19.2	19.0	21.6	21.8	21.8	19.0	19.1	19.1

8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested.

LTE BAND 2

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 2	1.4 MHz, QPSK	6/0	1880.0	1.0950	1.249
	1.4 MHz,16QAM			1.0955	1.246
	1.4 MHz,64QAM			1.0902	1.249
	3 MHz, QPSK	15/0		2.7083	2.991
	3 MHz, 16QAM			2.7073	2.989
	3 MHz, 64QAM			2.6920	2.979
	5 MHz, QPSK	25/0		4.4959	4.914
	5 MHz, 16QAM			4.5051	4.920
	5 MHz, 64QAM			4.4905	4.944
	10 MHz, QPSK	50/0		9.0057	10.44
	10 MHz, 16QAM			9.0129	10.47
	10 MHz, 64QAM			8.9409	9.830
	15 MHz, QPSK	75/0		13.479	15.55
	15 MHz, 16QAM			13.491	15.31
	15 MHz, 64QAM			13.474	15.29
	20 MHz, QPSK	100/0		17.976	19.68
	20 MHz, 16QAM			17.967	19.93
	20 MHz, 64QAM			17.981	19.78

LTE BAND 5

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 5	1.4 MHz, QPSK	6/0	836.5	1.0914	1.250
	1.4 MHz, 16QAM			1.0892	1.246
	1.4 MHz, 64QAM			1.0929	1.250
	3 MHz, QPSK	15/0		2.7068	2.988
	3 MHz, 16QAM			2.6706	2.951
	3 MHz, 64QAM			2.7087	2.988
	5 MHz, QPSK	25/0		4.4978	4.918
	5 MHz, 16QAM			4.5046	4.941
	5 MHz, 64QAM			4.4992	4.943
	10 MHz, QPSK	50/0		8.9771	9.995
	10 MHz, 16QAM			8.9845	10.02
	10 MHz, 64QAM			8.9906	10.06

LTE BAND 7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 7	5 MHz, QPSK	25/0	2535.0	4.5042	4.925
	5 MHz, 16QAM			4.5035	4.941
	5 MHz, 64QAM			4.5013	4.947
	10 MHz, QPSK	50/0		9.0065	10.25
	10 MHz, 16QAM			9.0233	10.45
	10 MHz, 64QAM			9.0198	10.46
	15 MHz, QPSK	75/0		13.487	15.45
	15 MHz, 16QAM			13.507	15.73
	15 MHz, 64QAM			13.504	15.56
	20 MHz, QPSK	100/0		17.950	19.73
	20 MHz, 16QAM			17.962	20.19
	20 MHz, 64QAM			17.976	19.81

LTE BAND 12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 12	1.4 MHz, QPSK	6/0	707.5	1.0899	1.245
	1.4 MHz, 16QAM			1.0927	1.241
	1.4 MHz, 64QAM			1.0947	1.249
	3 MHz, QPSK	15/0		2.7104	2.983
	3 MHz, 16QAM			2.7059	2.988
	3 MHz, 64QAM			2.7097	2.990
	5 MHz, QPSK	25/0		4.4968	4.936
	5 MHz, 16QAM			4.5055	4.933
	5 MHz, 64QAM			4.5032	4.922
	10 MHz, QPSK	50/0		9.0219	10.29
	10 MHz, 16QAM			9.0307	10.46
	10 MHz, 64QAM			8.9920	9.992

LTE BAND 13

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 13	5 MHz, QPSK	25/0	782.0	4.4932	4.925
	5 MHz, 16QAM			4.5013	4.933
	5 MHz, 64QAM			4.5023	4.930
	10 MHz, QPSK	50/0		9.0077	10.37
	10 MHz, 16QAM			9.0040	10.40
	10 MHz, 64QAM			9.0071	10.34

LTE BAND 14

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 14	5 MHz, QPSK	25/0	793	4.5010	4.942
	5 MHz, 16QAM			4.5055	4.935
	5 MHz, 64QAM			4.5090	5.110
	10 MHz, QPSK	50/0		8.9880	10.05
	10 MHz, 16QAM			8.9923	10.02
	10 MHz, 64QAM			8.9875	10.02

LTE BAND 17

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 17	5 MHz, QPSK	25/0	710.0	4.4977	4.923
	5 MHz, 16QAM			4.5036	4.929
	5 MHz, 64QAM			4.4950	4.922
	10 MHz, QPSK	50/0		9.0118	10.43
	10 MHz, 16QAM			9.0192	10.41
	10 MHz, 64QAM			8.9851	10.01

LTE BAND 25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 25	1.4 MHz, QPSK	6/0	1882.5	1.0950	1.246
	1.4 MHz, 16QAM			1.0898	1.247
	1.4 MHz, 64QAM			1.0924	1.242
	3 MHz, QPSK	15/0		2.7072	2.977
	3 MHz, 16QAM			2.7108	2.986
	3 MHz, 64QAM			2.7064	2.985
	5 MHz, QPSK	25/0		4.5030	4.931
	5 MHz, 16QAM			4.5095	4.924
	5 MHz, 64QAM			4.5001	4.943
	10 MHz, QPSK	50/0		9.0145	10.39
	10 MHz, 16QAM			9.0112	10.41
	10 MHz, 64QAM			9.0241	10.42
	15 MHz, QPSK	75/0		13.509	15.52
	15 MHz, 16QAM			13.502	15.42
	15 MHz, 64QAM			13.495	15.53
	20 MHz, QPSK	100/0		17.991	19.76
	20 MHz, 16QAM			17.958	20.08
	20 MHz, 64QAM			17.977	19.94

LTE BAND 26 (FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26	1.4 MHz, QPSK	1/0	819.0	0.23978	0.3500
	1.4 MHz,16QAM			0.24535	0.3488
	1.4 MHz, 64QAM			0.25873	0.3676
	1.4 MHz, QPSK	6/0		1.0995	1.301
	1.4 MHz,16QAM			1.0966	1.336
	1.4 MHz, 64QAM			1.0996	1.447
	3 MHz, QPSK	1/0		0.24176	0.3915
	3 MHz, 16QAM			0.27857	0.3886
	3 MHz, 64QAM			0.28484	0.4156
	3 MHz, QPSK	15/0		2.7100	2.992
	3 MHz, 16QAM			2.7066	2.997
	3 MHz, 64QAM			2.7083	2.989
	5 MHz, QPSK	1/0		0.22520	0.3589
	5 MHz, 16QAM			0.23630	0.3846
	5 MHz, 64QAM			0.24320	0.4292
	5 MHz, QPSK	25/0		4.5076	4.946
	5 MHz, 16QAM			4.4975	4.933
	5 MHz, 64QAM			4.4998	4.924
	10 MHz, QPSK	1/0		0.26751	0.4349
	10 MHz, 16QAM			0.26871	0.4380
	10 MHz, 64QAM			0.25967	0.4306
	10 MHz, QPSK	50/0		8.9853	10.02
	10 MHz, 16QAM			8.9840	10.12
	10 MHz. 64QAM			8.9808	9.890

LTE BAND 30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 30	5 MHz, QPSK	25/0	2310.0	4.5035	4.908
	5 MHz, 16QAM			4.4993	4.935
	5 MHz, 64QAM			4.5021	4.901
	10 MHz, QPSK	50/0		8.9892	10.04
	10 MHz, 16QAM			8.9904	9.941
	10 MHz, 64QAM			8.9680	9.932

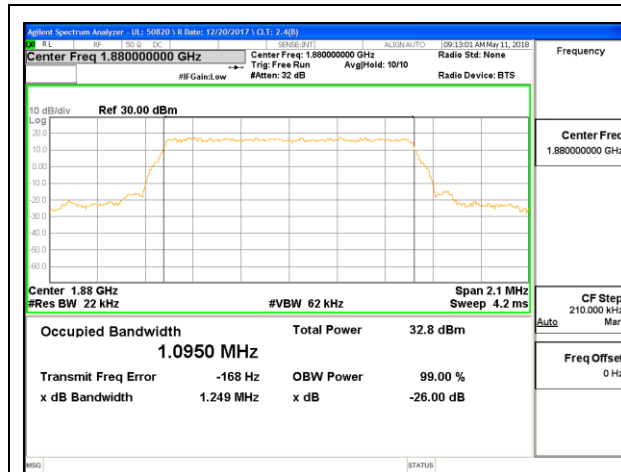
LTE BAND 41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 41	5 MHz, QPSK	25/0	2593.0	4.4989	5.053
	5 MHz, 16QAM			4.4837	4.872
	5 MHz, 64QAM			4.4946	5.155
	10 MHz, QPSK	50/0		9.0157	10.38
	10 MHz, 16QAM			8.9872	10.26
	10 MHz, 64QAM			8.9865	10.33
	15 MHz, QPSK	75/0		13.445	15.39
	15 MHz, 16QAM			13.455	15.67
	15 MHz, 64QAM			13.472	16.59
	20 MHz, QPSK	100/0		17.954	25.10
	20 MHz, 16QAM			17.938	22.61
	20 MHz, 64QAM			17.951	21.08

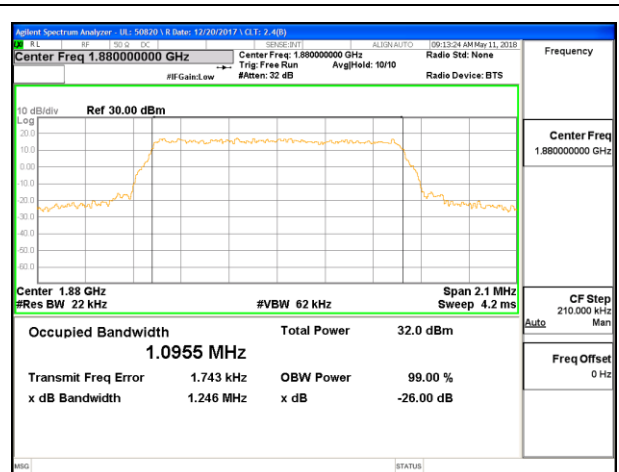
LTE BAND 66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4 MHz, QPSK	6/0	1745	1.0902	1.241
	1.4 MHz,16QAM			1.0874	1.249
	1.4MHz 64QAM			1.0889	1.242
	3 MHz, QPSK	15/0		2.6992	2.994
	3 MHz, 16QAM			2.6895	2.989
	3MHz 64QAM			2.6945	2.975
	5 MHz, QPSK	25/0		4.5024	4.912
	5 MHz, 16QAM			4.4989	4.910
	5MHz 64QAM			4.4970	4.937
	10 MHz, QPSK	50/0		9.0097	10.35
	10 MHz, 16QAM			9.0128	10.43
	10MHz 64QAM			8.9978	10.44
	15 MHz, QPSK	75/0		13.477	15.34
	15 MHz, 16QAM			13.462	15.38
	15MHz 64QAM			13.485	15.24
	20 MHz, QPSK	100/0		17.937	19.95
	20 MHz, 16QAM			17.974	19.77
	20MHz 64QAM			17.936	19.68

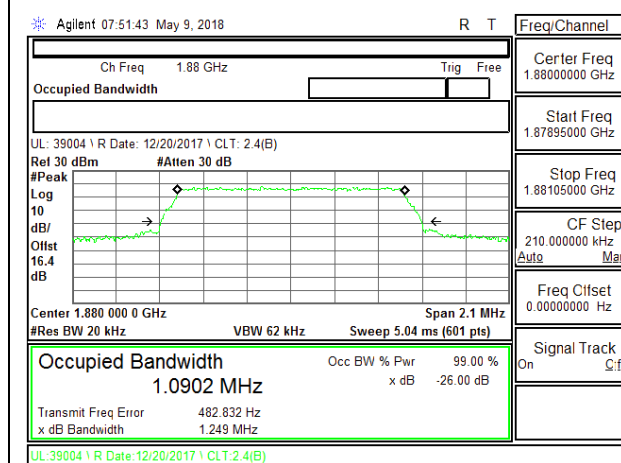
8.1.1. LTE BAND 2



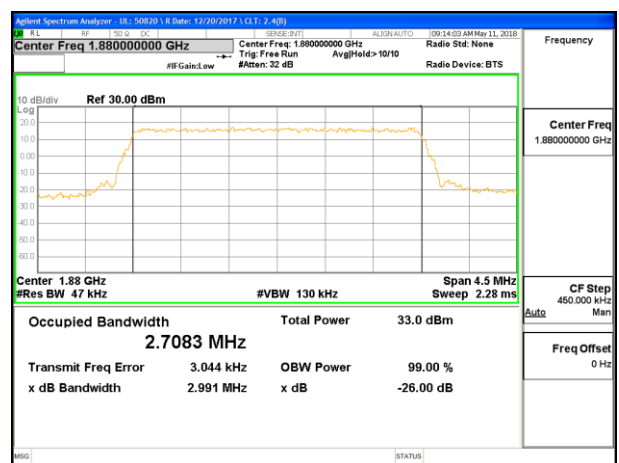
LTE B2 1.4MHz QPSK Middle Channel RB6-0



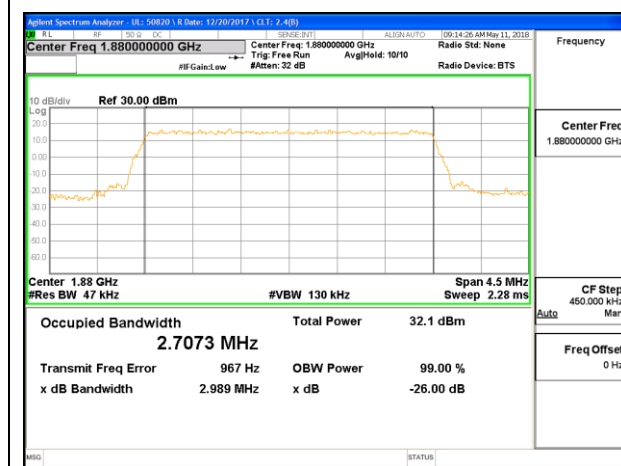
LTE B2 1.4MHz 16QAM Middle Channel RB6-0



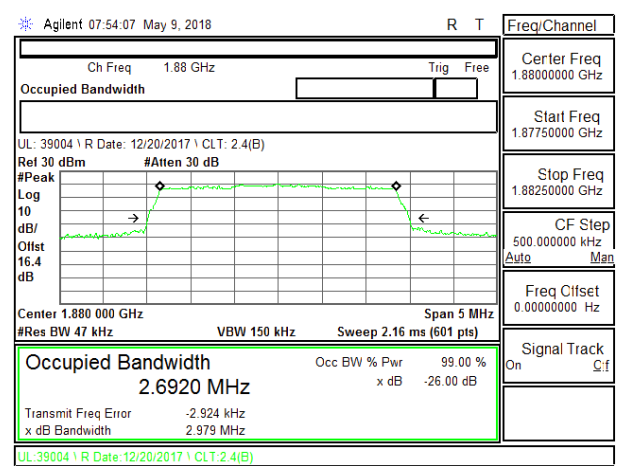
LTE B2 1.4MHz 64QAM Middle Channel RB6-0



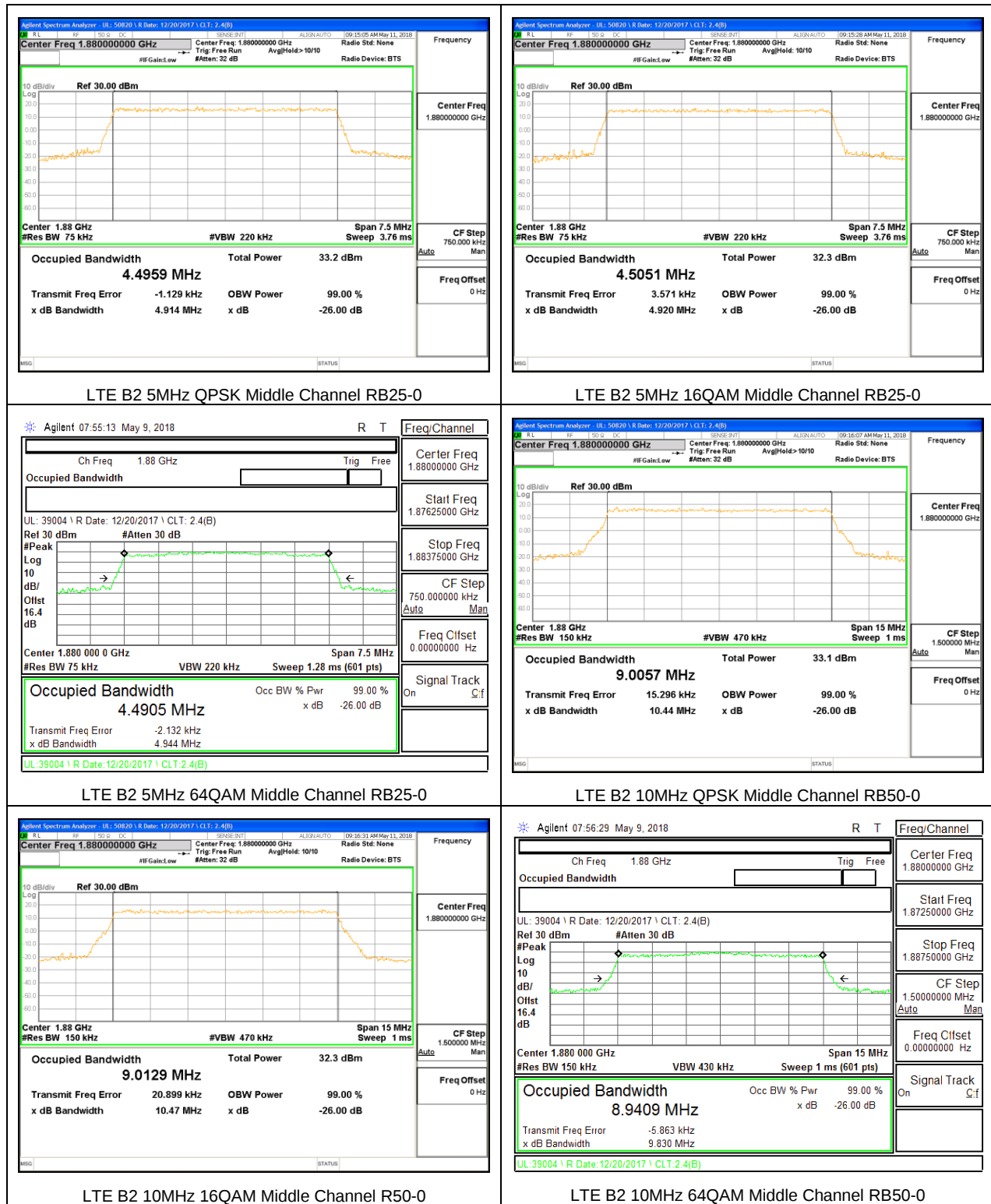
LTE B2 3MHz QPSK Middle Channel RB15-0

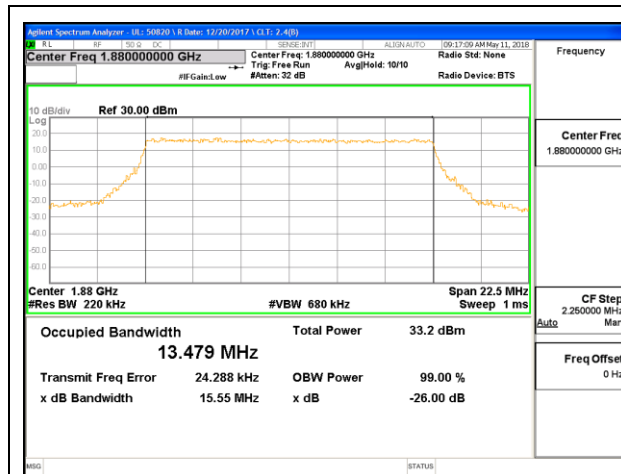


LTE B2 3MHz 16QAM Middle Channel RB15-0

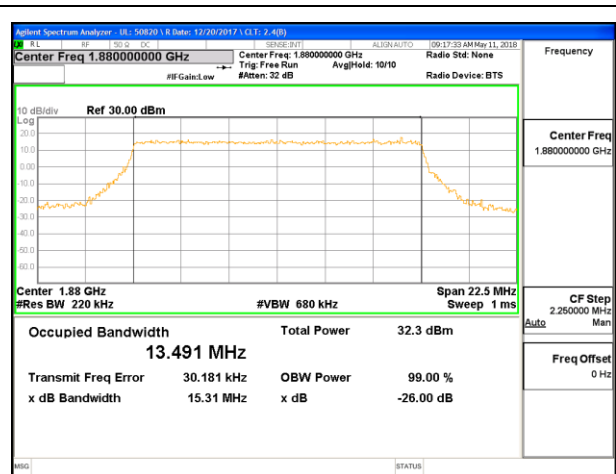


LTE B2 3MHz 64QAM Middle Channel RB15-0

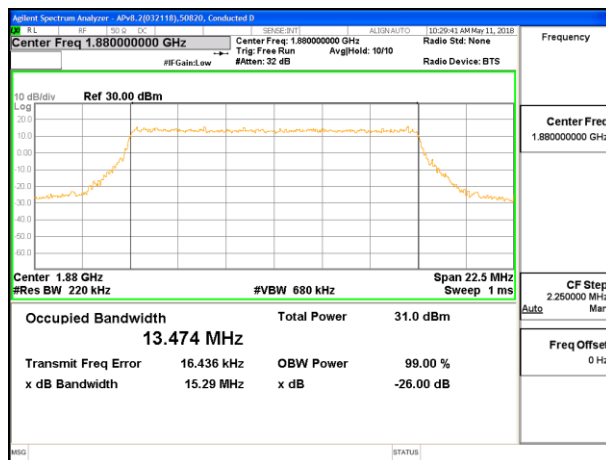




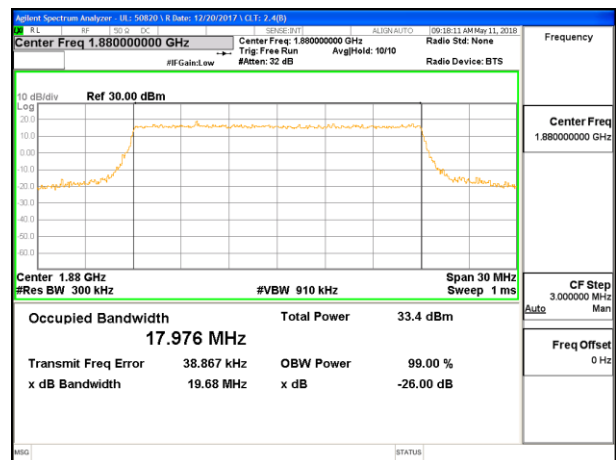
LTE B2 15MHz QPSK Middle Channel RB75-0



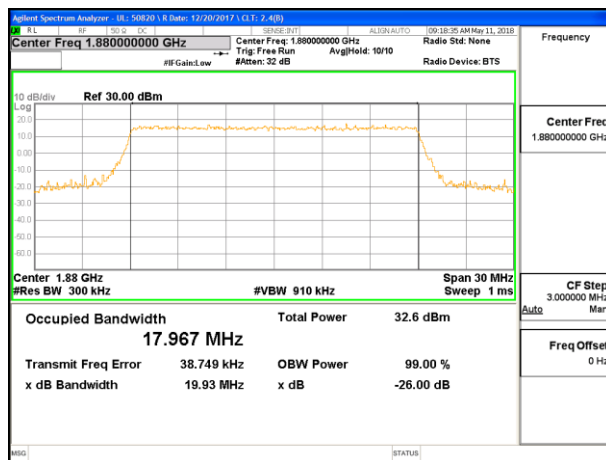
LTE B2 15MHz 16QAM Middle Channel RB75-0



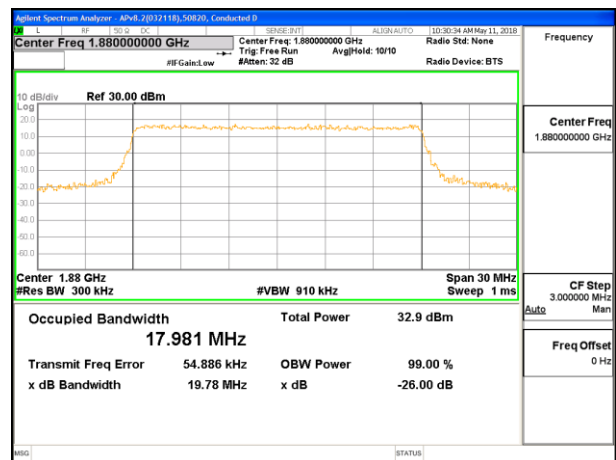
LTE B2 15MHz 64QAM Middle Channel RB75-0



LTE B2 20MHz QPSK Middle Channel RB100-0

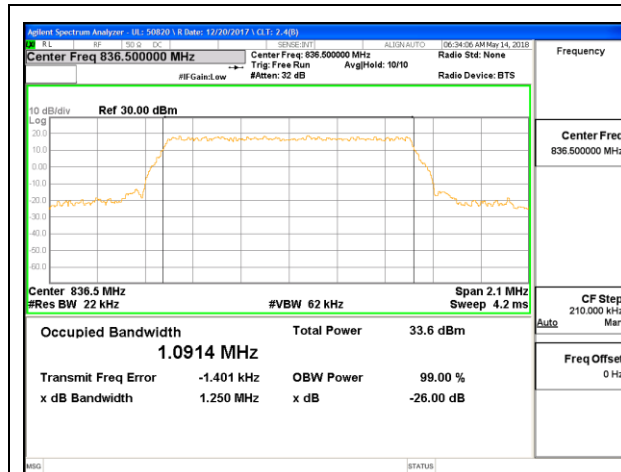


LTE B2 20MHz 16QAM Middle Channel RB100-0

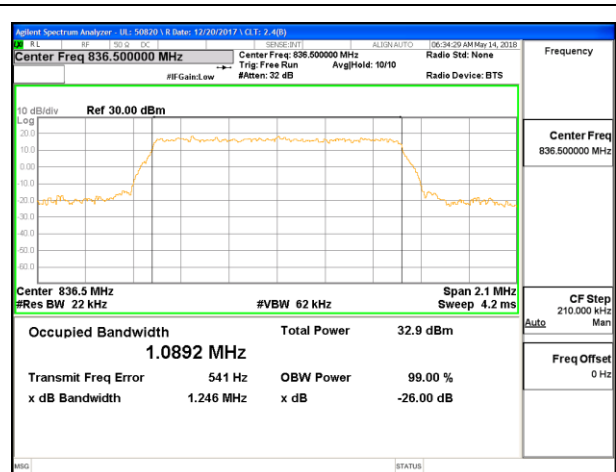


LTE B2 20MHz 64QAM Middle Channel RB100-0

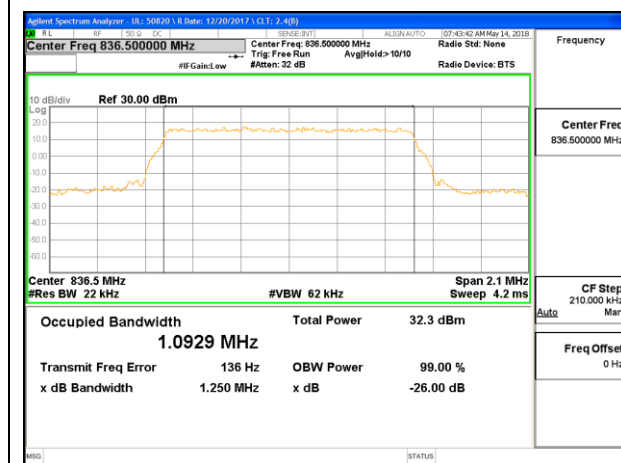
8.1.2. LTE BAND 5



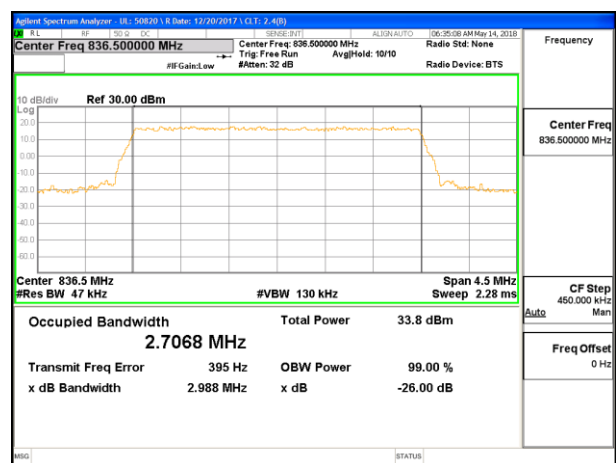
LTE B5 1.4MHz QPSK Middle Channel RB6-0



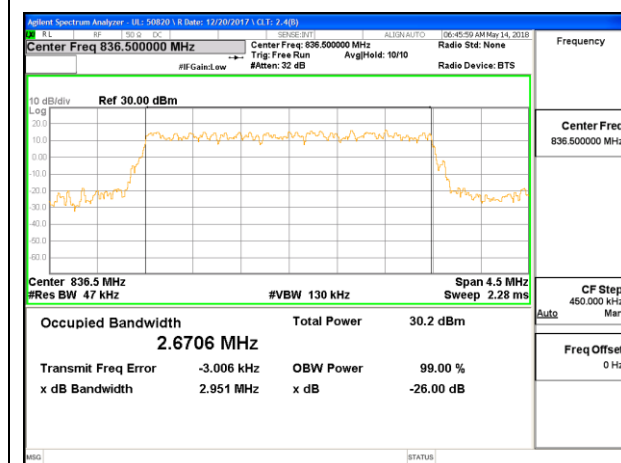
LTE B5 1.4MHz 16QAM Middle Channel RB6-0



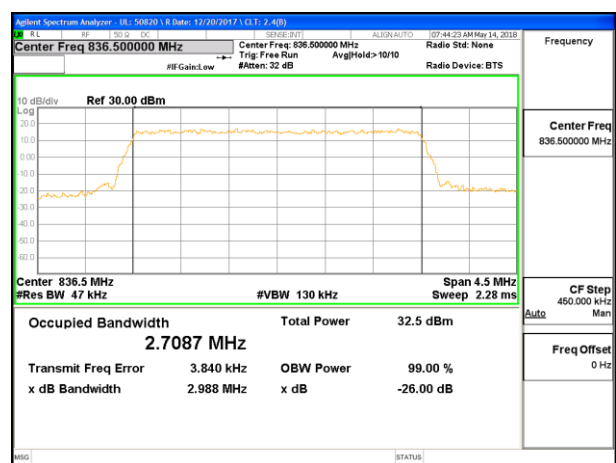
LTE B5 1.4MHz 64QAM Middle Channel RB6-0



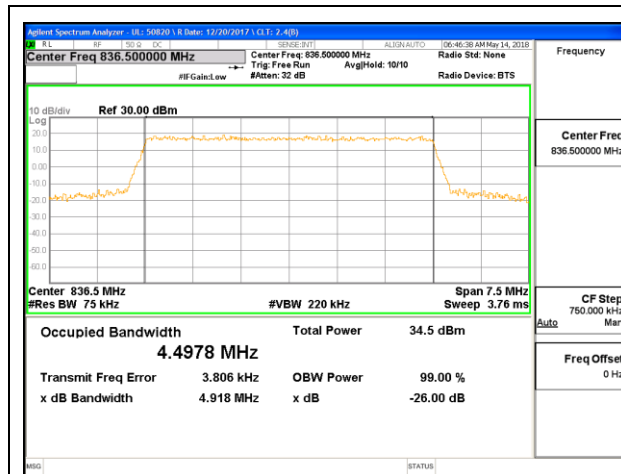
LTE B5 3MHz QPSK Middle Channel RB15-0



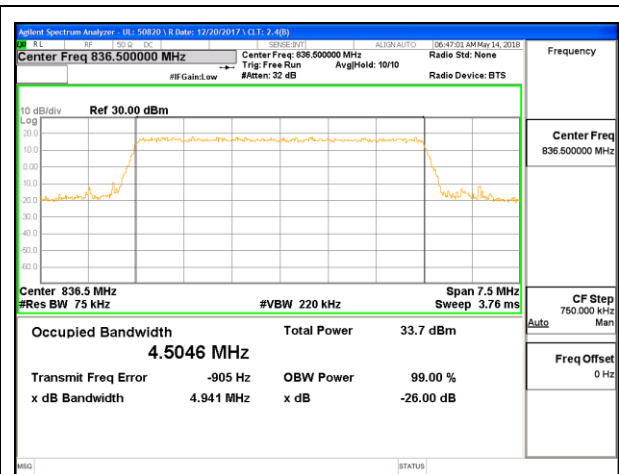
LTE B5 3MHz 16QAM Middle Channel RB15-0



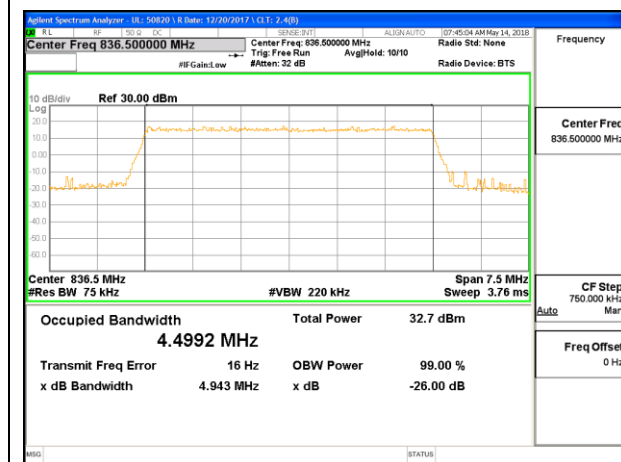
LTE B5 3MHz 64QAM Middle Channel RB15-0



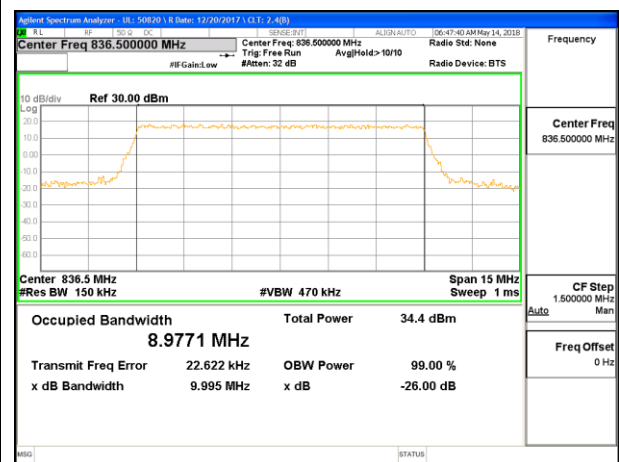
LTE B5 5MHz QPSK Middle Channel RB25-0



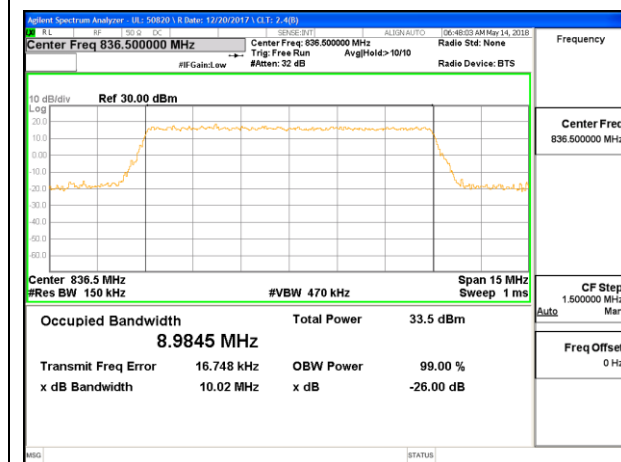
LTE B5 5MHz 16QAM Middle Channel RB25-0



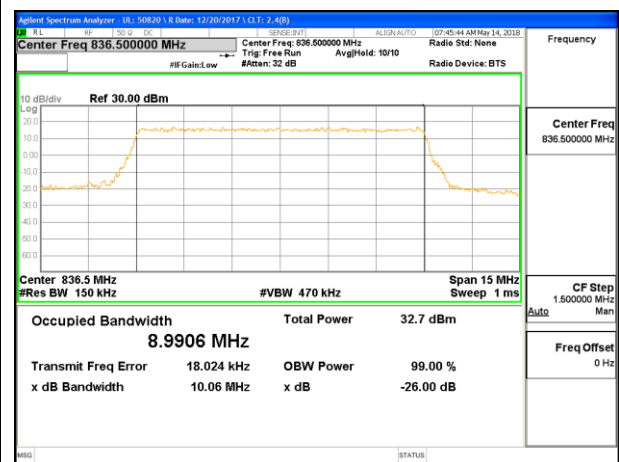
LTE B5 5MHz 64QAM Middle Channel RB25-0



LTE B5 10MHz QPSK Middle Channel RB50-0

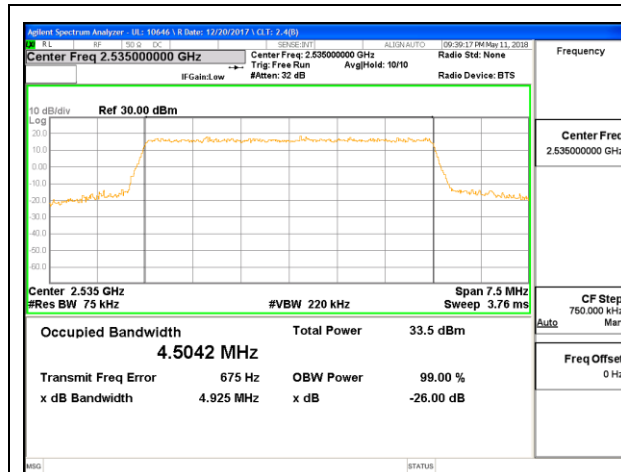


LTE B5 10MHz 16QAM Middle Channel RB50-0

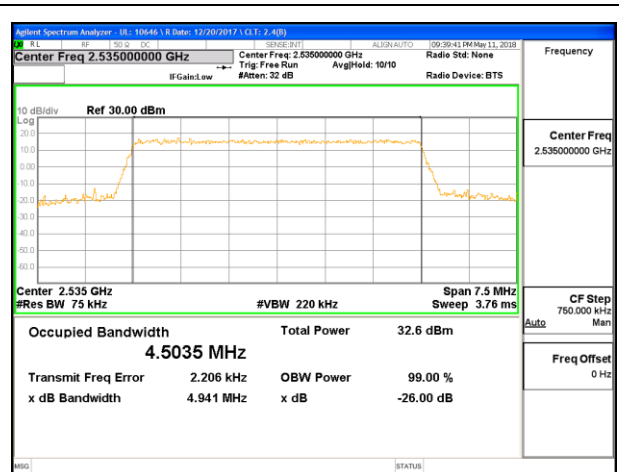


LTE B5 10MHz 64QAM Middle Channel RB50-0

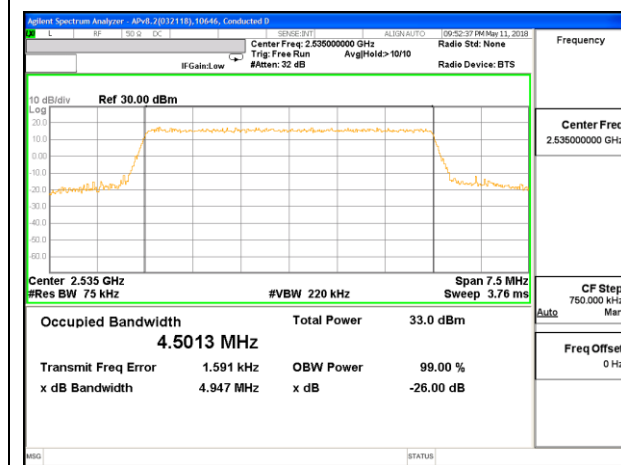
8.1.3. LTE BAND 7



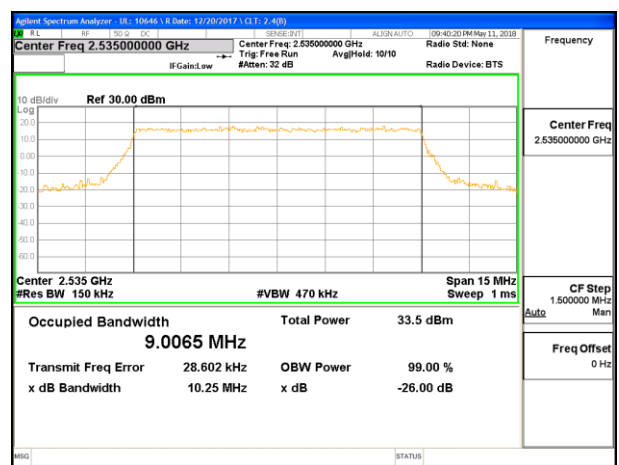
LTE B7 5MHz QPSK Middle Channel RB25-0



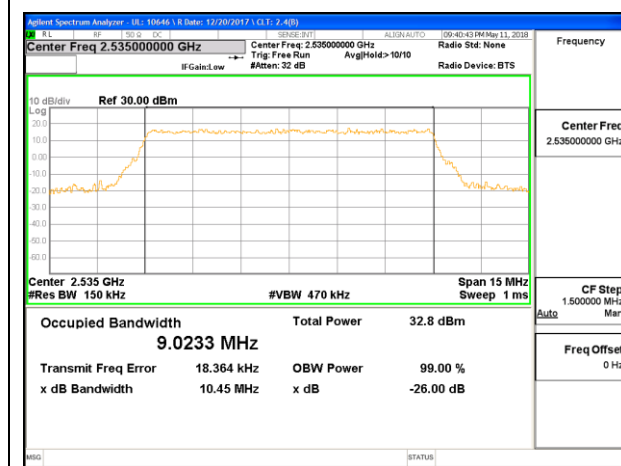
LTE B7 5MHz 16QAM Middle Channel RB25-0



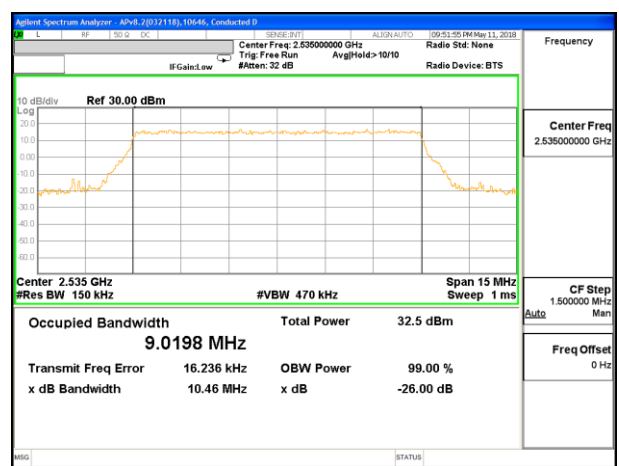
LTE B7 5MHz 64QAM Middle Channel RB25-0



LTE B7 10MHz QPSK Middle Channel RB50-0



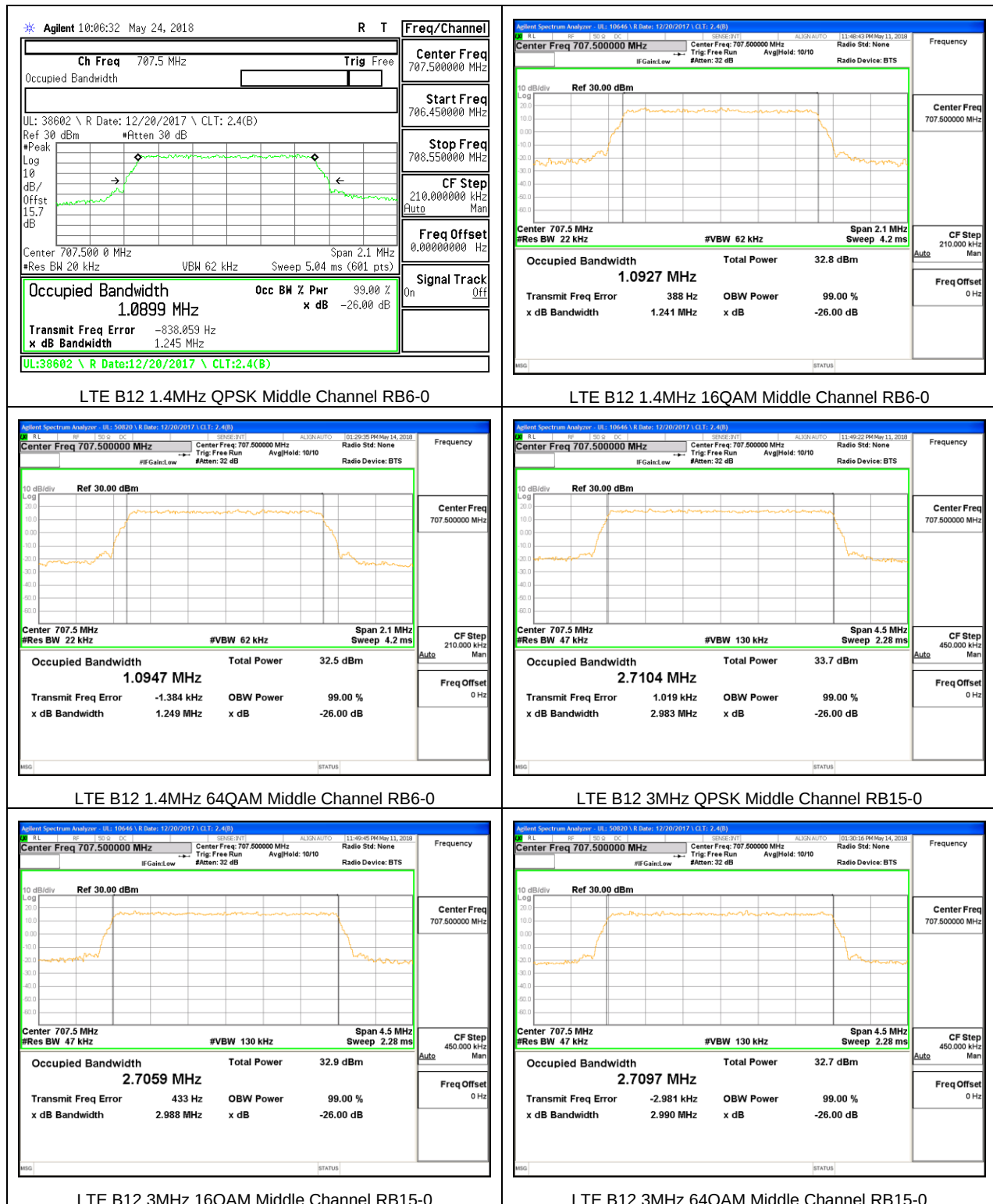
LTE B7 10MHz 16QAM Middle Channel RB50-0

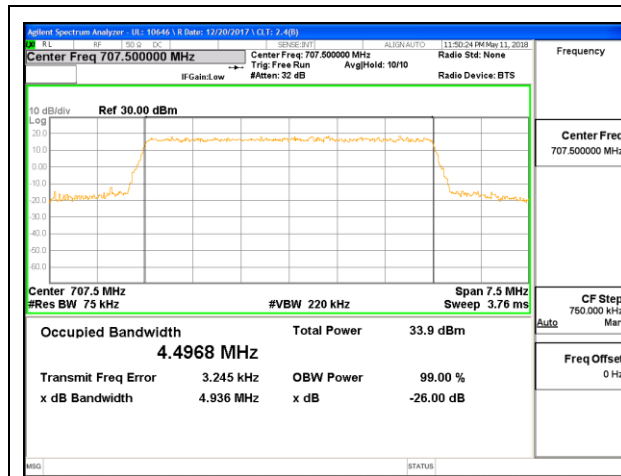


LTE B7 10MHz 64QAM Middle Channel RB50-0

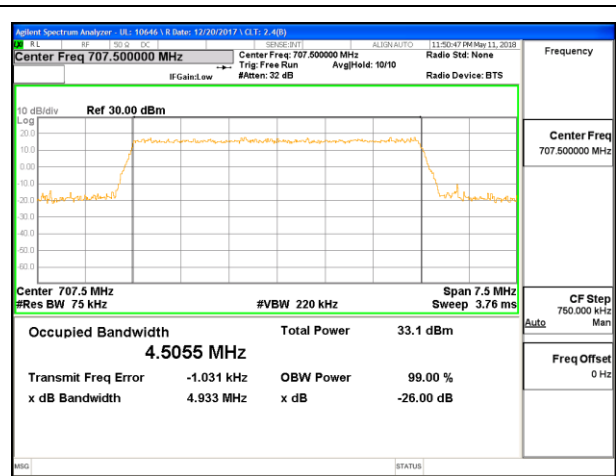


8.1.4. LTE BAND 12

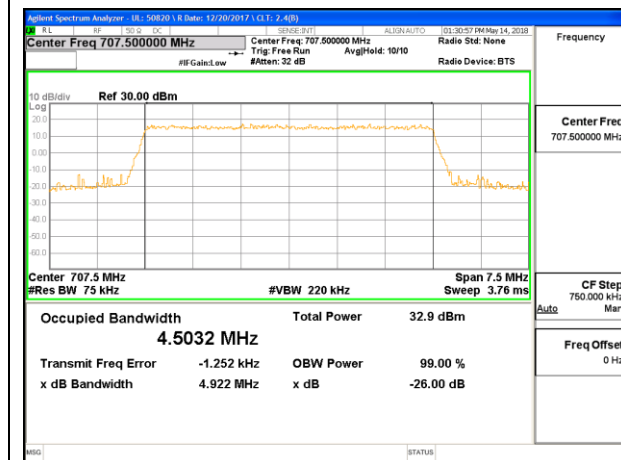




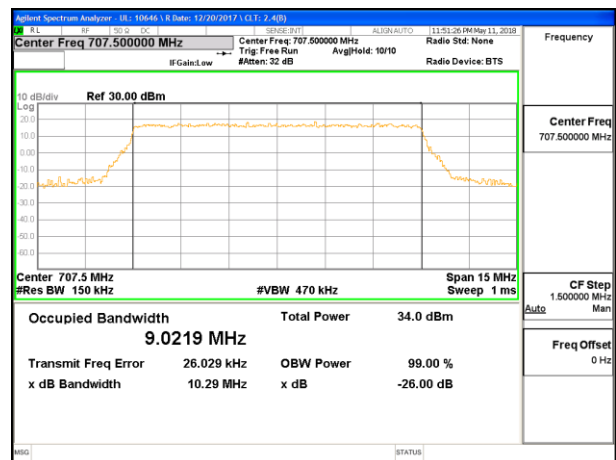
LTE B12 5MHz QPSK Middle Channel RB25-0



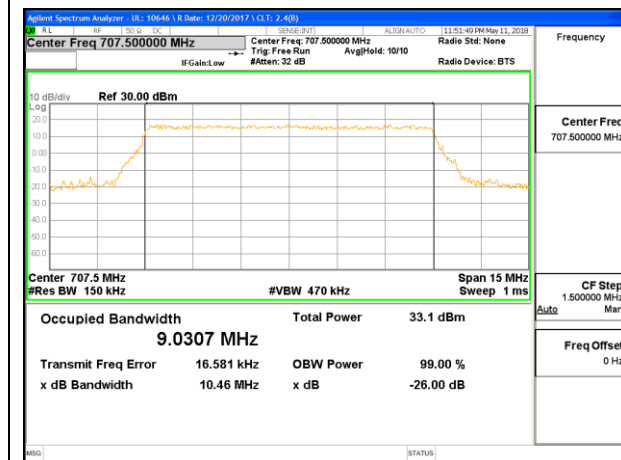
LTE B12 5MHz 16QAM Middle Channel RB25-0



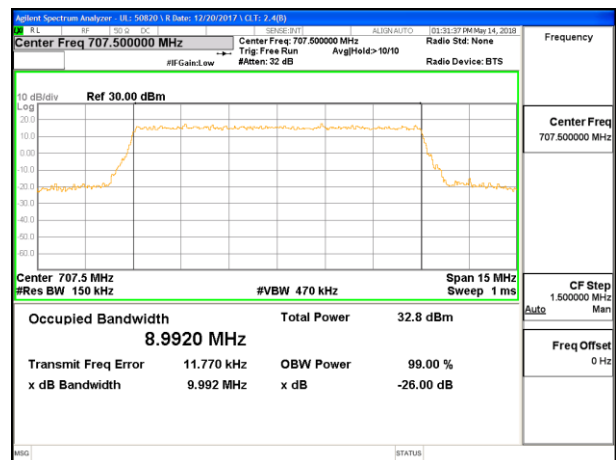
LTE B12 5MHz 16QAM Middle Channel RB25-0



LTE B12 10MHz QPSK Middle Channel RB50-0

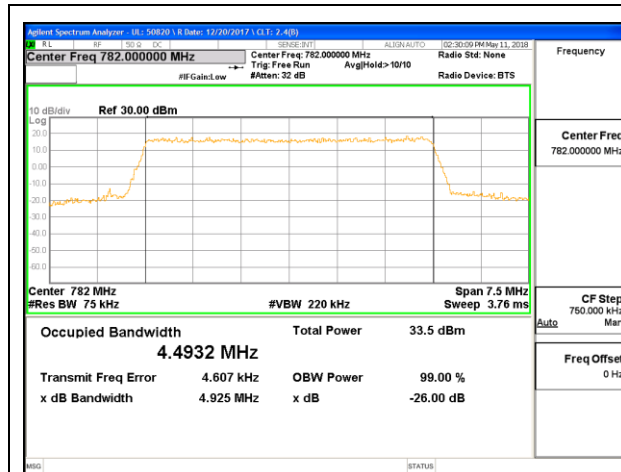


LTE B12 10MHz 16QAM Middle Channel RB50-0

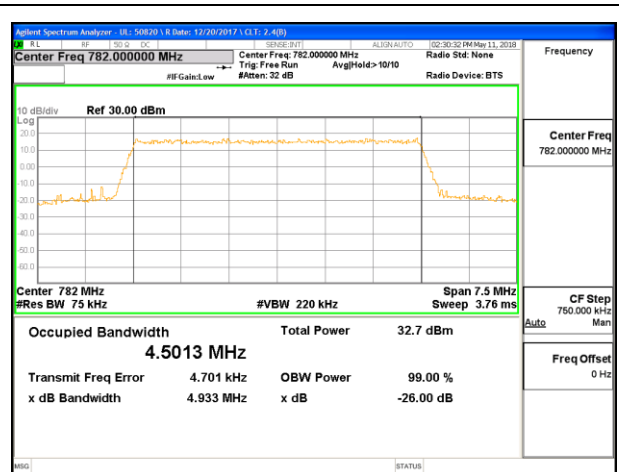


LTE B12 10MHz 64QAM Middle Channel RB50-0

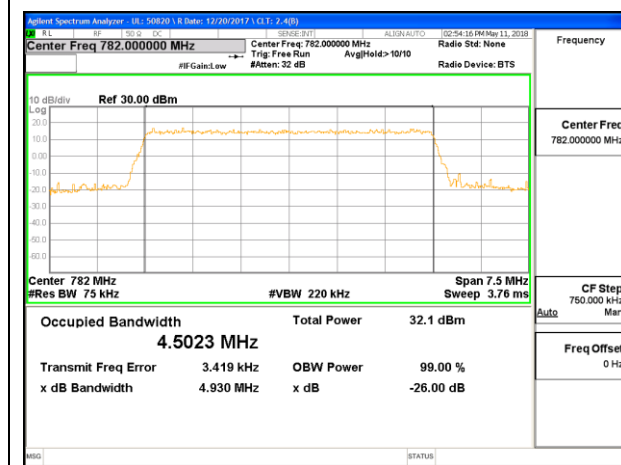
8.1.5. LTE BAND 13



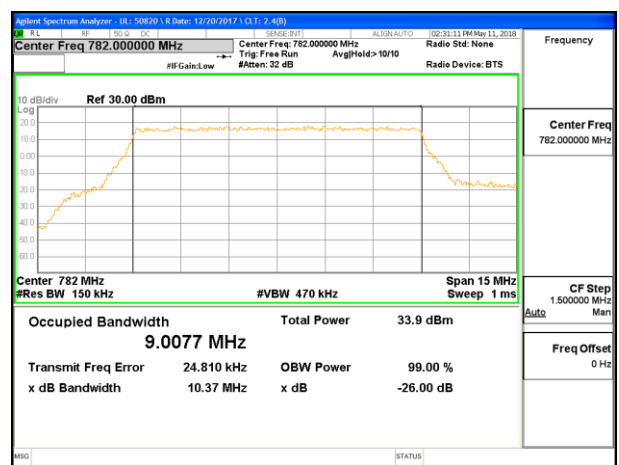
LTE B13 5MHz QPSK Middle Channel RB25-0



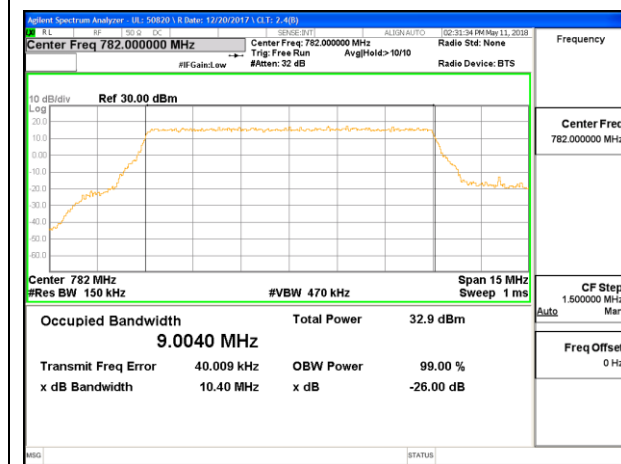
LTE B13 5MHz 16QAM Middle Channel RB25-0



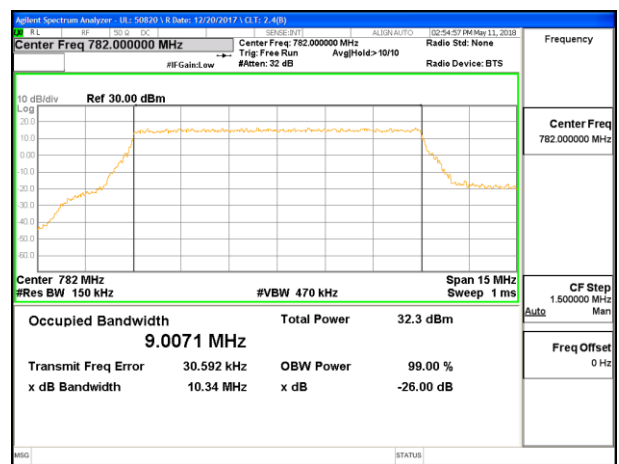
LTE B13 5MHz 64QAM Middle Channel RB25-0



LTE B13 10MHz QPSK Middle Channel RB50-0

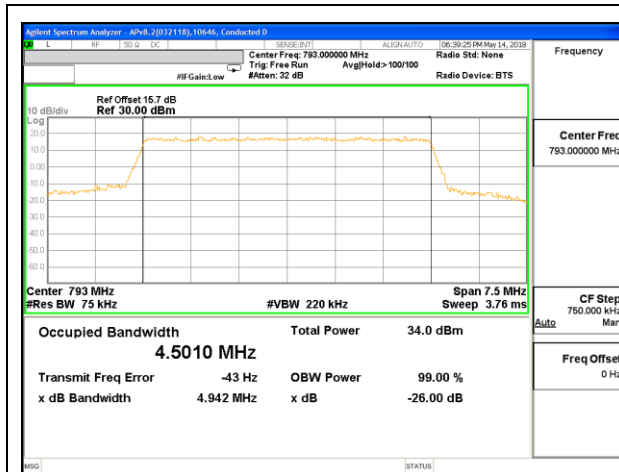


LTE B13 10MHz 16QAM Middle Channel RB50-0

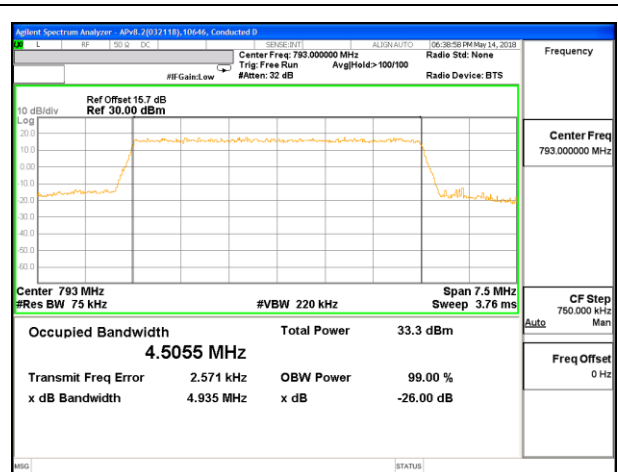


LTE B13 10MHz 64QAM Middle Channel RB50-0

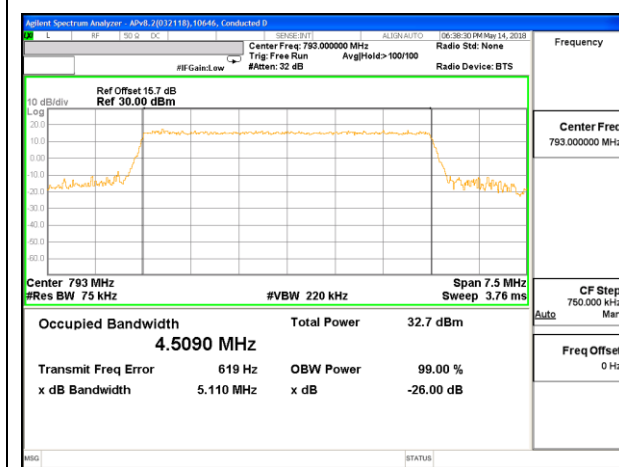
8.1.6. LTE BAND 14



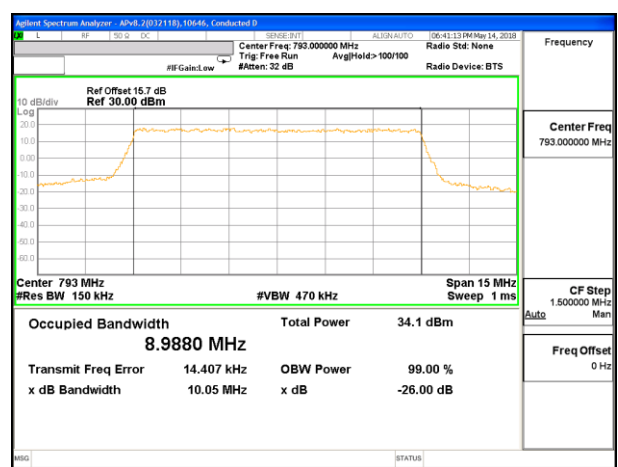
LTE B14 5MHz QPSK Middle Channel RB25-0



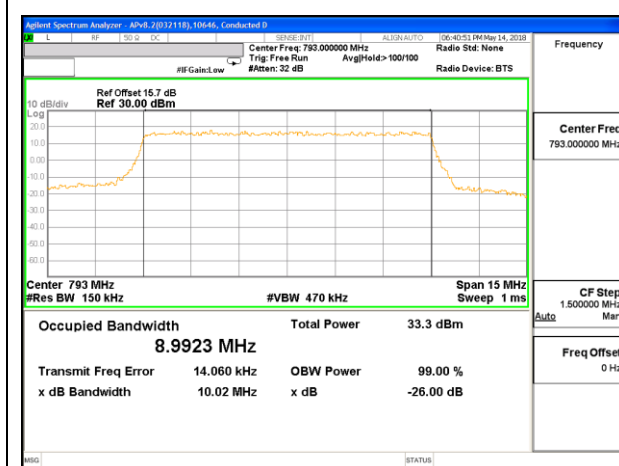
LTE B14 5MHz 16QAM Middle Channel RB25-0



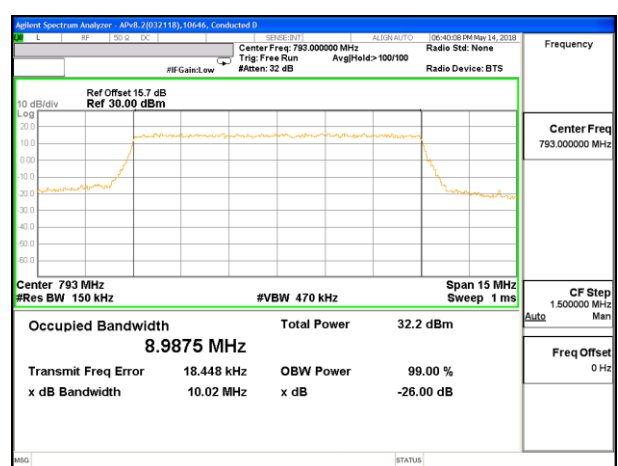
LTE B14 5MHz 64QAM Middle Channel RB25-0



LTE B14 10MHz QPSK Middle Channel RB50-0

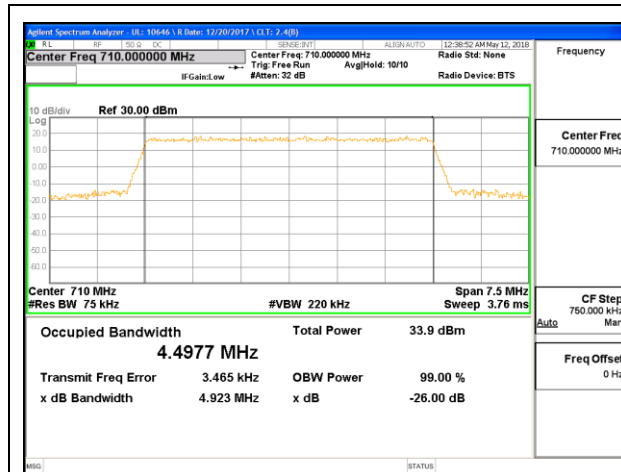


LTE B14 10MHz 16QAM Middle Channel RB50-0

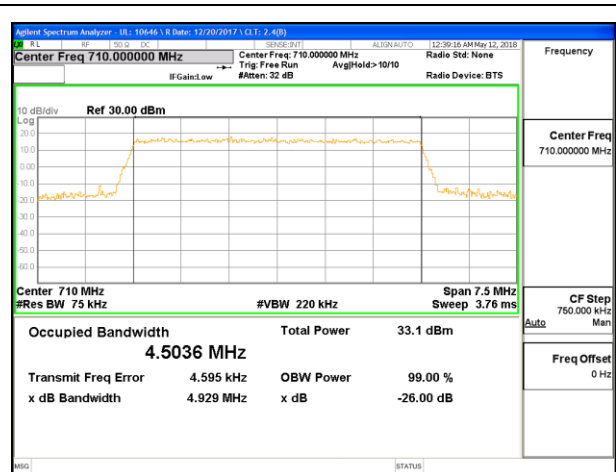


LTE B14 10MHz 64QAM Middle Channel RB50-0

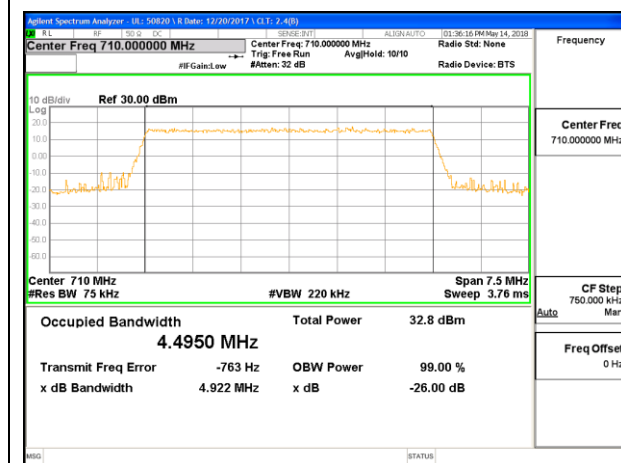
8.1.7. LTE BAND 17



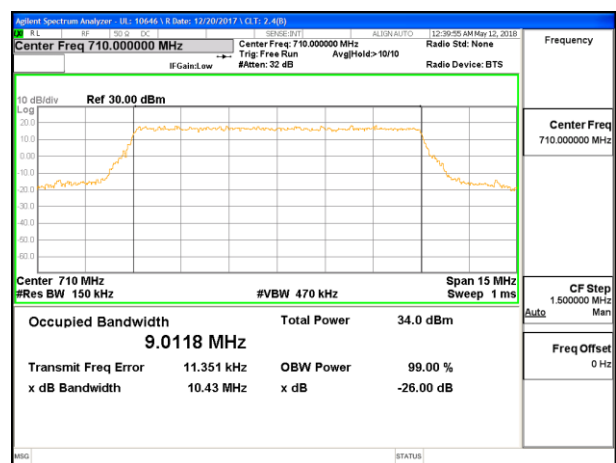
LTE B17 5MHz QPSK Middle Channel RB25-0



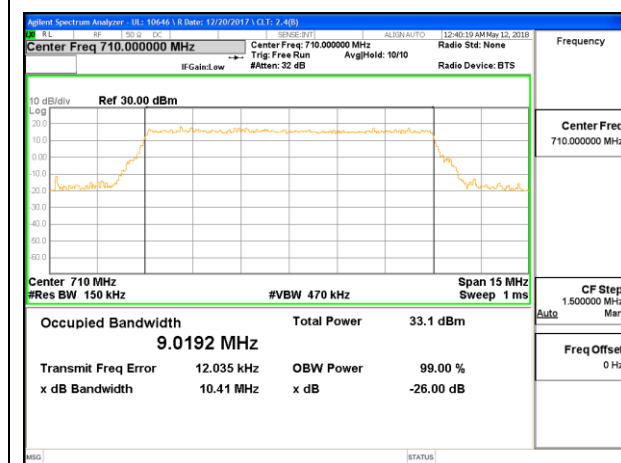
LTE B17 5MHz 16QAM Middle Channel RB25-0



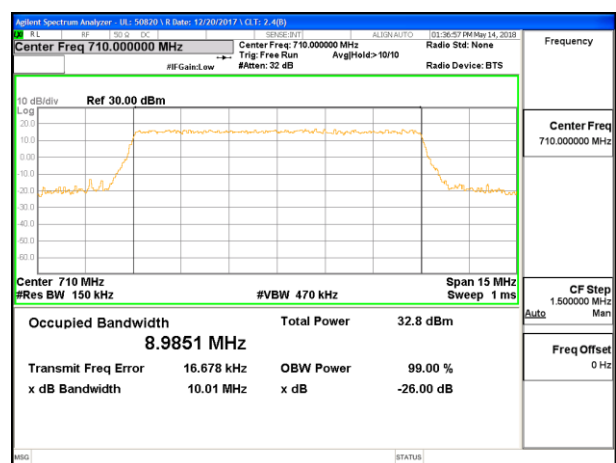
LTE B17 5MHz 64QAM Middle Channel RB25-0



LTE B17 10MHz QPSK Middle Channel RB50-0



LTE B17 10MHz 16QAM Middle Channel RB50-0



LTE B17 10MHz 64QAM Middle Channel RB50-0