

FCC CFR47 PART 22H, 24E, 27 CERTIFICATION TEST REPORT

FCC ID: ZSW-10-045

Product: Mobile Phone

Trade Mark: Bmobile

Model Number: C41

Family Model: N/A

Report No.: S22120507101003

Prepared for

b mobile HK Limited

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TEST RESULT CERTIFICATION

Applicant's name..... : b mobile HK Limited
Address : Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong, China
Manufacturer's Name..... : b mobile HK Limited
Address : Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong, China
Product name : Mobile Phone
Model and/or type reference : C41
Family Model: N/A
Test sample number S221205071001
Standards..... : FCC CFR 47 Part 22H, Part 24E, Part 27
Test procedure : ANSI C63.46:2015
ANSI/TIA-603-E-2016

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test
Date (s) of performance of tests 07 Dec. 2022 ~ 10 Jan, 2023
Date of Issue 11 Jan, 2023
Test Result..... Pass

Testing Engineer : [Signature]
(Allen Liu)

Authorized Signatory : [Signature]
(Alex Li)

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Mobile Phone
Trade Mark	Bmobile
Model Name	C41
Family Model	N/A
Model Difference	N/A
FCC ID:	ZSW-10-045
Frequency Bands:	U.S. Bands: <input checked="" type="checkbox"/> LTE FDD Band 2, 4, 5, 7, 26,38, 66
Frequency Range:	LTE FDD Band 2 Uplink: 1850MHz-1910MHz, Downlink: 1930MHz-1990MHz; LTE FDD Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz; LTE FDD Band 5 Uplink: 824MHz-849MHz, Downlink: 869MHz-894MHz; LTE-FDD Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz; LTE FDD Band 26 Uplink: 814MHz-849MHz, Downlink: 859MHz-894MHz; TDD Band 38: Uplink & Downlink: 2570 MHz to 2620 MHz LTE FDD Band 66 Uplink: 1710MHz-1780MHz, Downlink: 2110MHz-2200MHz;
Type of Modulation:	QPSK/16QAM
Antenna:	PIFA Antenna
Antenna gain:	B2:3.5 dBi,B4:1.35 dBi,B5:-2.8 dBi,B7:0.8 dBi,B66:1.35 dBi, B26:-2.8dBi,B38:0.8 dBi
Power Supply:	DC 3.8V/1400mAh from battery or DC 5V from Adapter.
Adapter:	INPUT: AC 100-240V~50-60Hz 0.15A OUTPUT: DC 5.0V---550mA
Extreme Vol. Limits:	DC 3.4V to DC 4.2V (Nominal DC 3.8V) (Note 1)
HW Version	C41_HW_V1.0
SW Version	Bmobile_C41_TEM_MX_V001
** Note1: The High Voltage 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: ZSW-10-045** filing to comply with the FCC Part 22H&24E &27.

1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, FCC CFR 47 Part 2, Part 22, Part 24, Part 27, ANSI C63.46:2015.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R.China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.46:2015& ANSI C63.4: 2014.

FCC Registration No.:463705

IC Registration No.:9270A-1,

CNAS Registration No.:L5516

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5dB

1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.6 WORST-CASE CONFIGURATION AND MODE

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

The device has LTE Bands of: Band 2, Band 4, Band 5, Band 7, Band 26, Band 38, Band 66.

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

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

1.6 SUMMARY OF TEST RESULTS

FCC Part22, Subpart H/ FCC Part24, Subpart E, FCC Part27, Subpart L, KDB 971168 D01 Power Meas License Digital Systems v03			
FCC Rule	Test Item	Verdict	Remark
2.1046	Conducted Output Power	PASS	
22.913(d) 24.232(d) 27.50(d)(5) KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS	
2.1049 22.917(b) 24.238(b) KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS	
2.1051 22.917(a) 24.238(a) 27.53(c), (g), (h) KDB 971168 D01 Clause 6	Band Edge	PASS	
22.913(a)(2) 27.50(b)(10), (c)(10) KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS	
24.232(c) 27.50(h)(2), (d)(4) KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS	
2.1053 22.917(a) 24.238(a) 27.53(c)(g)(h)(m) KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS	
2.1055 22.355 24.235 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS	

2.1051 22.917(a) 24.238(a) 27.53(c)(g)(h)(m) KDB 971168 D01 Clause 6	Conducted Emission	PASS	
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Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. No modifications are made to the EUT during all test items.

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 CONFIGURATION OF EUT SYSTEM

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Mobile Phone	C41	FCC ID: ZSW-10-045	EUT

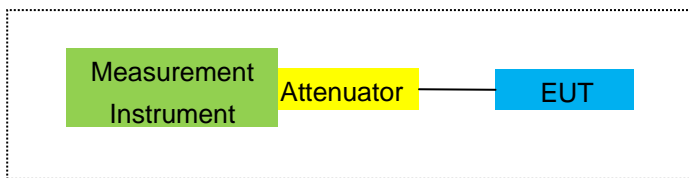
*Note: All the accessories have been used during the test.
the following "EUT" in setup diagram means EUT system.*

2.4 TEST SETUP

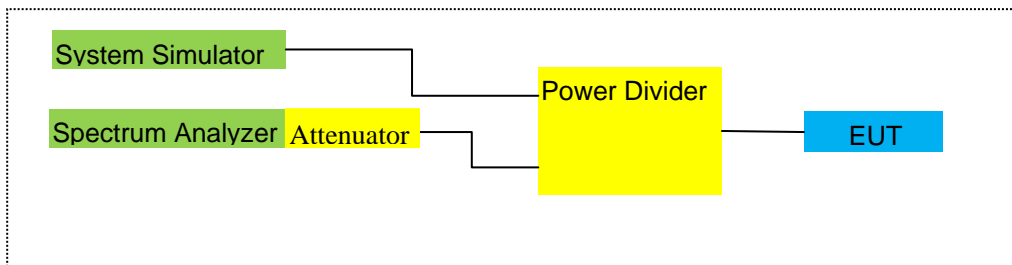
For Radiated Test Cases



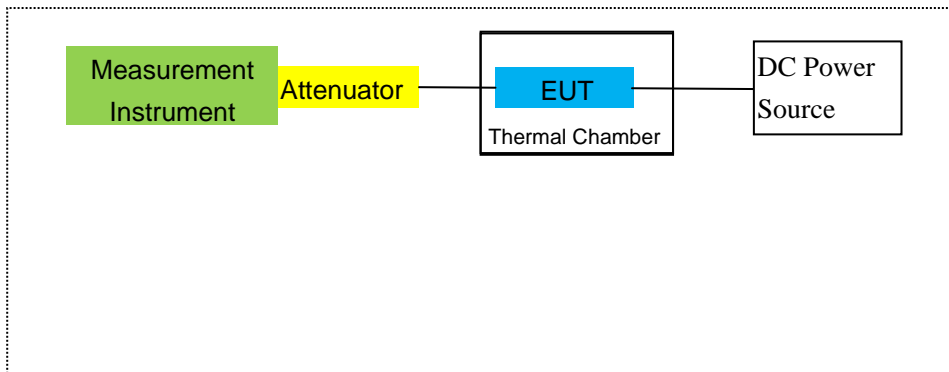
For Conducted Output Power



For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



Note: EUT built-in battery-powered, the battery is fully-charged.

3. TEST AND MEASUREMENT EQUIPMENT

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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
2	Test Receiver	R&S	ESPI	101318	2022.04.06	2023.04.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2022.03.31	2023.03.30	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.06.16	2023.06.15	1 year
7	Amplifier	EM	EM-30180	060538	2022.06.17	2023.06.16	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2022.04.06	2023.04.05	1 year
9	Power Meter	R&S	NRVS	100696	2022.06.17	2023.06.16	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2022.04.06	2023.04.05	1 year
11	Test Cable	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
12	Test Cable	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
13	Test Cable	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
15	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
16	LISN	EMCO	3816/2	00042990	2022.04.06	2023.04.05	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2022.04.06	2023.04.05	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2022.04.06	2023.04.05	1 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Attenuator	MCE	24-10-34	BN9258	2022.06.17	2023.06.16	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2022.04.06	2023.04.05	1 year
24	test receiver	R&S	ESCI	a0304218	2022.04.06	2023.04.05	1 year
25	Communication Tester	R&S	CMU200	A0304247	2022.06.17	2023.06.16	1 year

26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2022.04.06	2023.04.05	1 year
27	DC Power Source	N/A	PS-6005D	2017040292 3	2020.05.11	2023.05.10	3 year
28	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2022.06.16	2023.06.15	1 year
29	Communication Tester	R&S	CMW500	148500	2022.06.16	2023.06.15	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

4. OUTPUT POWER

4.1 OUTPUT POWER MEASUREMENT

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set. The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

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

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

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

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

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

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

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

Test data reference attachment.

5. 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 low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- LTE Band2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 26
- LTE Band 38
- LTE Band 66

RESULTS

PASS

Test data reference attachment.

6. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.917(a), §24.238(a), §27.53(c)(g)(h)(m)

FCC: §2.1046, §22.913, §24.232

LIMITS

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

The minimum permissible attenuation level for Band 7 is as following.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

Per 27.53(c.5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c.4) is $65 + 10\log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth.

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency

Set a marker to point the corresponding band edge frequency in each test case.

Set display line

Set resolution bandwidth to at least 1% of emission bandwidth.

MODES TESTED

- LTE Band 2/4/5/7/26/38/66

RESULTS

Test data reference attachment.

Note: Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

7. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.917(a), §24.238(a), §27.53(c)(g)(h)(m)

LIMITS

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

The minimum permissible attenuation level for Band 7 is as following.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

Per 27.53(c.5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c.4) is $65 + 10\log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 26
- LTE Band 38
- LTE Band 66

7.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

Test data reference attachment.

Note: Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

8. RADIATED MEASUREMENT

8.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913(a)(2), §24.232(c) and §27.50 (h)(2), (b)(10), (c)(10), (d)(4)

LIMITS:

22.913(a) (2)- The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
24.232 (c) Mobile and portable stations are limited to 2 watts EIRP.
27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.
27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.
27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.
27.50 (h)(2) Mobile and other user stations in the 2500–2570 MHz and 2620–2690 MHz bands. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI/TIA-603-E Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.

KDB 971168 D01 Power Meas License Digital Systems v02r01, “Measurement Guidance for Certification of Licensed Digital Transmitters”

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 26
- LTE Band 38
- LTE Band 66

RESULTS

Pass

8.2 LTE BAND 2

Radiated Power (EIRP) for Band 2															
Mode	RB/RB SIZE	Frequency	Result					Polarization Of	Max. ERP	Conclusion					
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)								
			1.4MHz Band QPSK	1/#Mid	1850.7	-2.26	3.76				28.24	22.22	166.725	Horizontal	Pass
					1880	-2.07	3.91				28.22	22.24	167.494	Horizontal	Pass
1909.3	-1.98	3.93			28.20	22.29	169.434	Horizontal	Pass						
3.0MHz Band QPSK	1/#Mid	1851.5	-2.32	3.77	28.23	22.14	163.682	Horizontal	Pass						
		1880	-2.17	3.91	28.24	22.16	164.437	Horizontal	Pass						
		1908.5	-2.04	3.94	28.25	22.27	168.655	Horizontal	Pass						
5.0MHz Band QPSK	1/#Mid	1852.5	-2.21	3.77	28.31	22.33	171.002	Horizontal	Pass						
		1880	-1.83	3.91	28.22	22.48	177.011	Horizontal	Pass						
		1907.5	-1.76	3.94	28.20	22.50	177.828	Horizontal	Pass						
10.0MHz Band QPSK	1/#Mid	1855	-2.07	3.79	28.33	22.47	176.604	Horizontal	Pass						
		1880	-1.77	3.95	28.22	22.50	177.828	Horizontal	Pass						
		1905	-1.66	3.97	28.19	22.56	180.302	Horizontal	Pass						
15.0MHz Band QPSK	1/#Mid	1857.5	-2.03	3.79	28.34	22.52	178.649	Horizontal	Pass						
		1880	-1.82	3.95	28.22	22.45	175.792	Horizontal	Pass						
		1902.5	-1.68	3.97	28.18	22.53	179.061	Horizontal	Pass						
20.0MHz Band QPSK	1/#Mid	1860	-2.02	3.81	28.35	22.52	178.649	Horizontal	Pass						
		1880	-1.69	3.96	28.22	22.57	180.717	Horizontal	Pass						
		1900	-1.63	4.00	28.16	22.53	179.061	Horizontal	Pass						
1.4MHz Band QPSK	1/#Mid	1850.7	-2.85	3.76	28.24	21.63	145.546	Vertical	Pass						
		1880	-2.70	3.91	28.22	21.61	144.877	Vertical	Pass						
		1909.3	-3.15	3.93	28.20	21.12	129.420	Vertical	Pass						
3.0MHz Band QPSK	1/#Mid	1851.5	-3.02	3.77	28.23	21.44	139.316	Vertical	Pass						
		1880	-3.29	3.91	28.24	21.04	127.057	Vertical	Pass						
		1908.5	-2.72	3.94	28.25	21.59	144.212	Vertical	Pass						
5.0MHz Band QPSK	1/#Mid	1852.5	-3.55	3.77	28.31	20.99	125.603	Vertical	Pass						
		1880	-2.93	3.91	28.22	21.38	137.404	Vertical	Pass						
		1907.5	-3.08	3.94	28.20	21.18	131.220	Vertical	Pass						
10.0MHz Band QPSK	1/#Mid	1855	-2.97	3.79	28.33	21.57	143.549	Vertical	Pass						
		1880	-2.75	3.95	28.22	21.52	141.906	Vertical	Pass						
		1905	-2.81	3.97	28.19	21.41	138.357	Vertical	Pass						

15.0MHz Band QPSK	1/#Mid	1857.5	-2.74	3.79	28.34	21.81	151.705	Vertical	Pass
		1880	-2.46	3.95	28.22	21.81	151.705	Vertical	Pass
		1902.5	-3.12	3.97	28.18	21.09	128.529	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	1860	-3.32	3.81	28.35	21.22	132.434	Vertical	Pass
		1880	-2.91	3.96	28.22	21.35	136.458	Vertical	Pass
		1900	-2.37	4.00	28.16	21.79	151.008	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain(dB) + SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (EIRP) for Band 2										
Mode	RB/RB SIZE	Frequency	Result						Polarization Of Max. ERP	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP	Average (mW)		
							Average			
1.4MHz Band 16 QAM	1/#Mid	1850.7	-3.38	3.76	28.24	21.10	128.825	Horizontal	Pass	
		1880	-2.85	3.91	28.22	21.46	139.959	Horizontal	Pass	
		1909.3	-2.78	3.93	28.20	21.49	140.929	Horizontal	Pass	
3.0MHz Band 16 QAM	1/#Mid	1851.5	-2.88	3.77	28.23	21.58	143.880	Horizontal	Pass	
		1880	-2.96	3.91	28.24	21.37	137.088	Horizontal	Pass	
		1908.5	-3.17	3.94	28.25	21.14	130.017	Horizontal	Pass	
5.0MHz Band 16 QAM	1/#Mid	1852.5	-2.82	3.77	28.31	21.72	148.594	Horizontal	Pass	
		1880	-2.73	3.91	28.22	21.58	143.880	Horizontal	Pass	
		1907.5	-2.41	3.94	28.20	21.90	154.882	Horizontal	Pass	
1.4MHz Band 16 QAM	1/#Mid	1850.7	-4.18	3.76	28.24	20.30	107.152	Vertical	Pass	
		1880	-3.45	3.91	28.22	20.86	121.899	Vertical	Pass	
		1909.3	-4.31	3.93	28.20	19.96	99.083	Vertical	Pass	
3.0MHz Band 16 QAM	1/#Mid	1851.5	-3.89	3.77	28.23	20.57	114.025	Vertical	Pass	
		1880	-3.86	3.91	28.24	20.47	111.429	Vertical	Pass	
		1908.5	-3.38	3.94	28.25	20.93	123.880	Vertical	Pass	
5.0MHz Band 16 QAM	1/#Mid	1852.5	-3.79	3.77	28.31	20.75	118.850	Vertical	Pass	
		1880	-3.82	3.91	28.22	20.49	111.944	Vertical	Pass	
		1907.5	-3.97	3.94	28.20	20.29	106.905	Vertical	Pass	

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB) + SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.3 LTE BAND 4

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result					Polarization Of Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Factor	Max. EIRP	Max. EIRP		
			(dBm)	(dBm)	(dB)	Average	Average		
						(dBm)	(mW)		
1.4MHz Band QPSK	1/#Mid	1710.7	-2.17	3.12	27.58	22.29	169.434	Horizontal	Pass
		1732.5	-2.16	3.27	27.61	22.18	165.196	Horizontal	Pass
		1754.3	-2.14	3.29	27.63	22.20	165.959	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-2.34	3.13	27.61	22.14	163.682	Horizontal	Pass
		1732.5	-2.26	3.27	27.61	22.08	161.436	Horizontal	Pass
		1753.5	-2.18	3.30	27.62	22.14	163.682	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-2.11	3.13	27.63	22.39	173.380	Horizontal	Pass
		1732.5	-2.01	3.27	27.61	22.33	171.002	Horizontal	Pass
		1752.5	-1.89	3.30	27.60	22.41	174.181	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1715	-2.05	3.15	27.64	22.44	175.388	Horizontal	Pass
		1732.5	-1.82	3.31	27.61	22.48	177.011	Horizontal	Pass
		1750	-1.84	3.33	27.59	22.42	174.582	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-2.06	3.15	27.65	22.44	175.388	Horizontal	Pass
		1732.5	-1.90	3.31	27.61	22.40	173.780	Horizontal	Pass
		1747.5	-1.84	3.33	27.57	22.40	173.780	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1720	-2.00	3.17	27.66	22.49	177.419	Horizontal	Pass
		1732.5	-1.83	3.32	27.61	22.46	176.198	Horizontal	Pass
		1745	-1.77	3.36	27.56	22.43	174.985	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-2.58	3.12	27.58	21.88	154.170	Vertical	Pass
		1732.5	-3.31	3.27	27.61	21.03	126.765	Vertical	Pass
		1754.3	-3.11	3.29	27.63	21.23	132.739	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-2.67	3.13	27.61	21.81	151.705	Vertical	Pass
		1732.5	-2.71	3.27	27.61	21.63	145.546	Vertical	Pass
		1753.5	-2.73	3.30	27.62	21.59	144.212	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-2.93	3.13	27.63	21.57	143.549	Vertical	Pass
		1732.5	-2.57	3.27	27.61	21.77	150.314	Vertical	Pass
		1752.5	-2.61	3.30	27.60	21.69	147.571	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.07	3.15	27.64	21.42	138.676	Vertical	Pass
		1732.5	-3.03	3.31	27.61	21.27	133.968	Vertical	Pass
		1750	-3.21	3.33	27.59	21.05	127.350	Vertical	Pass

15.0MHz		1717.5	-2.70	3.15	27.65	21.80	151.356	Vertical	Pass
Band	1/#Mid	1732.5	-2.99	3.31	27.61	21.31	135.207	Vertical	Pass
QPSK		1747.5	-2.83	3.33	27.57	21.41	138.357	Vertical	Pass
20.0MHz		1720	-2.92	3.17	27.66	21.57	143.549	Vertical	Pass
Band	1/#Mid	1732.5	-2.99	3.32	27.61	21.30	134.896	Vertical	Pass
QPSK		1745	-2.75	3.36	27.56	21.45	139.637	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable	Antenna	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	Loss	Factor	Average	Average	Of Max. ERP	
			(dBm)	(dB)	(dBm)	(mW)			
1.4MHz Band 16 QAM	1/#Mid	1710.7	-2.98	3.12	27.58	21.48	140.605	Horizontal	Pass
		1732.5	-2.83	3.27	27.61	21.51	141.579	Horizontal	Pass
		1754.3	-2.83	3.29	27.63	21.51	141.579	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-2.92	3.13	27.61	21.56	143.219	Horizontal	Pass
		1732.5	-3.05	3.27	27.61	21.29	134.586	Horizontal	Pass
		1753.5	-3.27	3.30	27.62	21.05	127.350	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-2.75	3.13	27.63	21.75	149.624	Horizontal	Pass
		1732.5	-2.71	3.27	27.61	21.63	145.546	Horizontal	Pass
		1752.5	-2.40	3.30	27.60	21.92	155.597	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-4.45	3.12	27.58	20.01	100.231	Vertical	Pass
		1732.5	-3.40	3.27	27.61	20.94	124.165	Vertical	Pass
		1754.3	-3.66	3.29	27.63	20.68	116.950	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-4.14	3.13	27.61	20.34	108.143	Vertical	Pass
		1732.5	-3.64	3.27	27.61	20.70	117.490	Vertical	Pass
		1753.5	-3.83	3.30	27.62	20.49	111.944	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-3.77	3.13	27.63	20.73	118.304	Vertical	Pass
		1732.5	-3.86	3.27	27.61	20.48	111.686	Vertical	Pass
		1752.5	-3.61	3.30	27.60	20.69	117.220	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.4 LTE BAND 5

Radiated Power (ERP) for Band 5											
Mode	RB/RB SIZE	Frequency	Result							Polarization Of Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Factor	Correction	Max. EIRP	Max. EIRP			
			(dBm)	(dBm)	(dB)		Average	Average			
						(dB)	(dBm)	(mW)			
1.4MHz Band QPSK	1/#Mid	824.7	7.13	2.01	19.68	2.15	22.65	184.077	Horizontal	Pass	
		836.5	7.01	2.01	19.77	2.15	22.62	182.810	Horizontal	Pass	
		848.3	6.81	2.02	19.82	2.15	22.46	176.198	Horizontal	Pass	
3.0MHz Band QPSK	1/#Mid	825.5	6.90	2.01	19.70	2.15	22.44	175.388	Horizontal	Pass	
		836.5	6.80	2.01	19.77	2.15	22.41	174.181	Horizontal	Pass	
		847.5	6.67	2.02	19.81	2.15	22.31	170.216	Horizontal	Pass	
5.0MHz Band QPSK	1/#Mid	826.5	7.18	2.01	19.71	2.15	22.73	187.499	Horizontal	Pass	
		836.5	7.06	2.01	19.77	2.15	22.67	184.927	Horizontal	Pass	
		846.5	6.90	2.02	19.79	2.15	22.52	178.649	Horizontal	Pass	
10.0MHz Band QPSK	1/#Mid	829	7.20	2.01	19.73	2.15	22.77	189.234	Horizontal	Pass	
		836.5	7.15	2.01	19.77	2.15	22.76	188.799	Horizontal	Pass	
		844	7.05	2.02	19.78	2.15	22.66	184.502	Horizontal	Pass	
1.4MHz Band QPSK	1/#Mid	824.7	6.38	2.01	19.68	2.15	21.90	154.882	Vertical	Pass	
		836.5	5.47	2.01	19.77	2.15	21.08	128.233	Vertical	Pass	
		848.3	6.07	2.02	19.82	2.15	21.72	148.594	Vertical	Pass	
3.0MHz Band QPSK	1/#Mid	825.5	5.74	2.01	19.70	2.15	21.28	134.276	Vertical	Pass	
		836.5	6.30	2.01	19.77	2.15	21.91	155.239	Vertical	Pass	
		847.5	6.10	2.02	19.81	2.15	21.74	149.279	Vertical	Pass	
5.0MHz Band QPSK	1/#Mid	826.5	6.31	2.01	19.71	2.15	21.86	153.462	Vertical	Pass	
		836.5	6.27	2.01	19.77	2.15	21.88	154.170	Vertical	Pass	
		846.5	5.43	2.02	19.79	2.15	21.05	127.350	Vertical	Pass	
10.0MHz Band QPSK	1/#Mid	829	5.50	2.01	19.73	2.15	21.07	127.938	Vertical	Pass	
		836.5	6.05	2.01	19.77	2.15	21.66	146.555	Vertical	Pass	
		844	6.15	2.02	19.78	2.15	21.76	149.968	Vertical	Pass	

Radiated Power (ERP) for Band 5

Radiated Power (ERP) for Band 5											
Mode	RB/RB SIZE	Frequency	Result							Polarization Of Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Factor	Correction	Max. EIRP	Max. EIRP			
			(dBm)	(dBm)	(dB)		Average	Average			
						(dB)	(dBm)	(mW)			
1.4MHz Band 16 QAM	3/#Mid	824.7	6.28	2.01	19.68	2.15	21.80	151.356	Horizontal	Pass	
		836.5	6.21	2.01	19.77	2.15	21.82	152.055	Horizontal	Pass	
		848.3	6.05	2.02	19.82	2.15	21.70	147.911	Horizontal	Pass	
3.0MHz Band 16 QAM	1/#Mid	825.5	6.36	2.01	19.70	2.15	21.90	154.882	Horizontal	Pass	
		836.5	6.07	2.01	19.77	2.15	21.68	147.231	Horizontal	Pass	
		847.5	5.55	2.02	19.81	2.15	21.19	131.522	Horizontal	Pass	
5.0MHz Band 16 QAM	1/#Mid	826.5	6.68	2.01	19.71	2.15	22.23	167.109	Horizontal	Pass	
		836.5	6.45	2.01	19.77	2.15	22.06	160.694	Horizontal	Pass	
		846.5	6.20	2.02	19.79	2.15	22.25	167.880	Horizontal	Pass	
1.4MHz Band 16 QAM	1/#Mid	824.7	5.01	2.01	19.68	2.15	20.53	112.980	Vertical	Pass	
		836.5	6.22	2.01	19.77	2.15	21.83	152.405	Vertical	Pass	
		848.3	4.86	2.02	19.82	2.15	20.51	112.460	Vertical	Pass	
3.0MHz Band 16 QAM	1/#Mid	825.5	4.62	2.01	19.70	2.15	20.16	103.753	Vertical	Pass	
		836.5	4.56	2.01	19.77	2.15	20.17	103.992	Vertical	Pass	
		847.5	4.89	2.02	19.81	2.15	20.53	112.980	Vertical	Pass	
5.0MHz Band 16 QAM	1/#Mid	826.5	5.99	2.01	19.71	2.15	21.54	142.561	Vertical	Pass	
		836.5	5.12	2.01	19.77	2.15	20.73	118.304	Vertical	Pass	
		846.5	5.53	2.02	19.79	2.15	21.15	130.317	Vertical	Pass	

Note:

ERP=EIRP-2.15

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.5 LTE BAND 7

Radiated Power (EIRP) for Band 7										
Mode	RB/RB SIZE	Frequency	Result					Polarization Of	Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Factor	Max. EIRP	Max. EIRP			
			(dBm)			Average	Average			
				(dB)	(dBm)	(dBm)	(mW)			
5.0MHz Band QPSK	1/#Mid	2502.5	-0.45	4.54	27.75	22.76	188.799	Horizontal	Pass	
		2535	-0.28	4.69	27.72	22.75	188.365	Horizontal	Pass	
		2567.5	-0.21	4.71	27.71	22.79	190.108	Horizontal	Pass	
10.0MHz Band QPSK	1/#Mid	2505	-0.38	4.55	27.76	22.83	191.867	Horizontal	Pass	
		2535	-0.19	4.69	27.72	22.84	192.309	Horizontal	Pass	
		2565	-0.11	4.72	27.70	22.87	193.642	Horizontal	Pass	
15.0MHz Band QPSK	1/#Mid	2507.5	-0.39	4.55	27.77	22.83	191.867	Horizontal	Pass	
		2535	-0.25	4.69	27.72	22.78	189.671	Horizontal	Pass	
		2562.5	-0.15	4.72	27.69	22.82	191.426	Horizontal	Pass	
20.0MHz Band QPSK	1/#Mid	2510	-0.33	4.57	27.78	22.88	194.089	Horizontal	Pass	
		2535	-0.15	4.73	27.72	22.84	192.309	Horizontal	Pass	
		2560	-0.11	4.75	27.68	22.82	191.426	Horizontal	Pass	
5.0MHz Band QPSK	1/#Mid	2502.5	-1.66	4.54	27.75	21.55	142.889	Vertical	Pass	
		2535	-1.14	4.69	27.72	21.89	154.525	Vertical	Pass	
		2567.5	-1.31	4.71	27.71	21.69	147.571	Vertical	Pass	
10.0MHz Band QPSK	1/#Mid	2505	-2.15	4.55	27.76	21.06	127.644	Vertical	Pass	
		2535	-2.08	4.69	27.72	20.95	124.451	Vertical	Pass	
		2565	-1.23	4.72	27.70	21.75	149.624	Vertical	Pass	
15.0MHz Band QPSK	1/#Mid	2507.5	-1.56	4.55	27.77	21.66	146.555	Vertical	Pass	
		2535	-1.41	4.69	27.72	21.62	145.211	Vertical	Pass	
		2562.5	-1.96	4.72	27.69	21.01	126.183	Vertical	Pass	
20.0MHz Band QPSK	1/#Mid	2510	-2.24	4.57	27.78	20.97	125.026	Vertical	Pass	
		2535	-1.92	4.73	27.72	21.07	127.938	Vertical	Pass	
		2560	-1.21	4.75	27.68	21.72	148.594	Vertical	Pass	

Radiated Power (EIRP) for Band 7									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Factor	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)			Average	Average		
						(dBm)	(mW)		
5.0MHz	1/#Mid	2502.5	-1.14	4.54	27.75	22.07	161.065	Horizontal	Pass
Band 16		2535	-0.83	4.69	27.72	22.20	165.959	Horizontal	Pass
QAM		2567.5	-0.91	4.71	27.71	22.23	167.109	Horizontal	Pass
5.0MHz	1/#Mid	2502.5	-1.34	4.54	27.75	21.87	153.815	Vertical	Pass
Band 16		2535	-1.39	4.69	27.72	21.64	145.881	Vertical	Pass
QAM		2567.5	-2.20	4.71	27.71	20.80	120.226	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.6 LTE BAND 26 A

Radiated Power (ERP) for Band 26(814-824)										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss (dBm)	Antenna Factor (dB)	Correction	Max. EIRP (dBm)	Max. EIRP (mW)	Polarization Of Max. ERP	
1.4MHz BW QPSK	1/#Mid	814.7	-2.31	3.76	28.24	2.15	20.02	100.48	Horizontal	Pass
		819	-1.92	3.91	28.22	2.15	20.24	105.73	Horizontal	Pass
		823.3	-2.07	3.93	28.20	2.15	20.05	101.11	Horizontal	Pass
3.0MHz BW QPSK	1/#Mid	815.5	-2.13	3.77	28.23	2.15	20.18	104.16	Horizontal	Pass
		819	-2.02	3.91	28.24	2.15	20.16	103.71	Horizontal	Pass
		822.5	-1.97	3.94	28.25	2.15	20.19	104.37	Horizontal	Pass
5.0MHz BW QPSK	1/#Mid	816.5	-2.83	3.77	28.31	2.15	19.56	90.31	Horizontal	Pass
		819	-2.39	3.91	28.22	2.15	19.77	94.93	Horizontal	Pass
		821.5	-1.97	3.94	28.20	2.15	20.14	103.28	Horizontal	Pass
10.0MHz BW QPSK	1/#Mid	819	-1.95	3.91	28.22	2.15	20.21	104.95	Horizontal	Pass
1.4MHz BW QPSK	1/#Mid	814.7	-2.21	3.79	28.34	2.15	20.19	104.47	Vertical	Pass
		819	-2.15	3.95	28.22	2.15	19.97	99.20	Vertical	Pass
		823.3	-2.10	3.97	28.18	2.15	19.96	99.09	Vertical	Pass
3.0MHz BW QPSK	1/#Mid	815.5	-2.53	3.77	28.23	2.15	19.78	95.00	Vertical	Pass
		819	-1.97	3.91	28.24	2.15	20.21	104.94	Vertical	Pass
		822.5	-1.92	3.94	28.25	2.15	20.24	105.68	Vertical	Pass
5.0MHz BW QPSK	1/#Mid	816.5	-2.17	3.77	28.31	2.15	20.22	105.11	Vertical	Pass
		819	-1.91	3.91	28.22	2.15	20.25	105.82	Vertical	Pass
		821.5	-1.97	3.94	28.20	2.15	20.14	103.28	Vertical	Pass
10.0MHz BW QPSK	1/#Mid	819	-1.82	3.91	28.22	2.15	20.34	108.14	Vertical	Pass

Radiated Power (ERP) for Band 26(814-824)										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Factor	Correction	Max. EIRP	Max. EIRP	Polarization Of Max.	
				(dBm)	(dB)		(dBm)	(mW)	ERP	
1.4MHz BW 16 QAM	1/#Mid	814.7	-2.13	3.76	28.24	2.15	20.20	104.69	Horizontal	Pass
		819	-1.86	3.91	28.22	2.15	20.30	107.15	Horizontal	Pass
		823.3	-1.77	3.93	28.20	2.15	20.35	108.38	Horizontal	Pass
3.0MHz BW 16 QAM	1/#Mid	815.5	-2.10	3.77	28.23	2.15	20.21	104.95	Horizontal	Pass
		819	-1.89	3.91	28.24	2.15	20.29	106.91	Horizontal	Pass
		822.5	-2.14	3.94	28.25	2.15	20.02	100.53	Horizontal	Pass
5.0MHz BW 16 QAM	1/#Mid	816.5	-2.19	3.77	28.31	2.15	20.20	104.69	Horizontal	Pass
		819	-2.43	3.91	28.22	2.15	19.73	93.87	Horizontal	Pass
		821.5	-2.04	3.94	28.20	2.15	20.37	108.89	Horizontal	Pass
1.4MHz BW 16 QAM	1/#Mid	814.7	-2.11	3.79	28.34	2.15	20.29	106.91	Vertical	Pass
		819	-1.93	3.95	28.22	2.15	20.19	104.47	Vertical	Pass
		823.3	-1.97	3.97	28.18	2.15	20.09	102.04	Vertical	Pass
3.0MHz BW 16 QAM	1/#Mid	815.5	-2.01	3.77	28.23	2.15	20.30	107.15	Vertical	Pass
		819	-1.88	3.91	28.24	2.15	20.30	107.15	Vertical	Pass
		822.5	-2.33	3.94	28.25	2.15	19.83	96.06	Vertical	Pass
5.0MHz BW 16 QAM	1/#Mid	816.5	-2.59	3.77	28.31	2.15	19.80	95.56	Vertical	Pass
		819	-2.53	3.91	28.22	2.15	19.63	91.80	Vertical	Pass
		821.5	-1.78	3.94	28.20	2.15	20.33	107.89	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.7 LTE BAND 26 B

Radiated Power (ERP) for Band 26(824-849)										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Factor	Correction	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	(dB)	Average	Average	Of Max. ERP	
							(dBm)	(mW)		
1.4MHz Band QPSK	1/#Mid	824.7	5.21	2.01	19.68	2.15	20.73	118.22	Horizontal	Pass
		836.5	3.87	2.01	19.77	2.15	19.48	88.62	Horizontal	Pass
		848.3	5.29	2.02	19.82	2.15	20.94	124.24	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	825.5	4.13	2.01	19.70	2.15	19.67	92.77	Horizontal	Pass
		836.5	4.50	2.01	19.77	2.15	20.11	102.52	Horizontal	Pass
		847.5	4.47	2.02	19.81	2.15	20.11	102.61	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	826.5	4.35	2.01	19.71	2.15	19.90	97.68	Horizontal	Pass
		836.5	3.84	2.01	19.77	2.15	19.45	88.09	Horizontal	Pass
		846.5	4.76	2.02	19.79	2.15	20.38	109.06	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	829	4.13	2.01	19.73	2.15	19.70	93.24	Horizontal	Pass
		836.5	3.99	2.01	19.77	2.15	19.60	91.29	Horizontal	Pass
		844	3.90	2.02	19.78	2.15	19.51	89.26	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	831.5	4.78	2.01	19.73	2.15	20.35	108.27	Horizontal	Pass
		836.5	4.07	2.01	19.77	2.15	19.68	92.97	Horizontal	Pass
		841.5	4.61	2.02	19.78	2.15	20.22	105.28	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	824.7	5.71	2.01	19.68	2.15	21.23	132.83	Vertical	Pass
		836.5	5.04	2.01	19.77	2.15	20.65	116.02	Vertical	Pass
		848.3	4.89	2.02	19.82	2.15	20.54	113.30	Vertical	Pass

3.0MHz		825.5	4.57	2.01	19.70	2.15	20.11	102.45	Vertical	Pass
Band	1/#Mid	836.5	5.08	2.01	19.77	2.15	20.69	117.31	Vertical	Pass
QPSK		847.5	5.06	2.02	19.81	2.15	20.70	117.38	Vertical	Pass
5.0MHz		826.5	4.76	2.01	19.71	2.15	20.31	107.33	Vertical	Pass
Band	1/#Mid	836.5	5.79	2.01	19.77	2.15	21.40	138.07	Vertical	Pass
QPSK		846.5	4.61	2.02	19.79	2.15	20.23	105.35	Vertical	Pass
10.0MHz		829	4.84	2.01	19.73	2.15	20.41	109.80	Vertical	Pass
Band	1/#Mid	836.5	5.59	2.01	19.77	2.15	21.20	131.93	Vertical	Pass
QPSK		844	5.69	2.02	19.78	2.15	21.30	134.78	Vertical	Pass
15.0MHz		831.5	4.37	2.01	19.73	2.15	19.94	98.61	Vertical	Pass
Band	1/#Mid	836.5	5.74	2.01	19.77	2.15	21.35	136.38	Vertical	Pass
QPSK		841.5	6.08	2.02	19.78	2.15	21.69	147.52	Vertical	Pass

Radiated Power (ERP) for Band 26(824-849)										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Factor	Correction	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	(dB)	Average	Average	Of Max. ERP	
							(dBm)	(mW)		
1.4MHz Band 16 QAM	1/#Mid	824.7	5.25	2.01	19.68	2.15	20.77	119.38	Horizontal	Pass
		836.5	4.17	2.01	19.77	2.15	19.78	95.03	Horizontal	Pass
		848.3	3.50	2.02	19.82	2.15	19.15	82.28	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	825.5	3.73	2.01	19.70	2.15	19.27	84.59	Horizontal	Pass
		836.5	4.08	2.01	19.77	2.15	19.69	93.14	Horizontal	Pass
		847.5	4.11	2.02	19.81	2.15	19.75	94.50	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	826.5	3.59	2.01	19.71	2.15	19.14	82.00	Horizontal	Pass
		836.5	3.98	2.01	19.77	2.15	19.59	91.01	Horizontal	Pass
		846.5	3.60	2.02	19.79	2.15	21.35	136.38	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	824.7	4.46	2.01	19.68	2.15	19.98	99.47	Vertical	Pass
		836.5	4.87	2.01	19.77	2.15	20.48	111.73	Vertical	Pass
		848.3	4.70	2.02	19.82	2.15	20.35	108.48	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	825.5	3.50	2.01	19.70	2.15	19.04	80.12	Vertical	Pass
		836.5	3.98	2.01	19.77	2.15	19.59	90.91	Vertical	Pass
		847.5	4.38	2.02	19.81	2.15	20.02	100.44	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	826.5	4.34	2.01	19.71	2.15	19.89	97.43	Vertical	Pass
		836.5	3.56	2.01	19.77	2.15	19.17	82.67	Vertical	Pass
		846.5	4.97	2.02	19.79	2.15	20.59	114.51	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.8 LTE BAND 38

Radiated Power (EIRP) for Band 38									
Mode	RB/RB SIZE	Frequency	Result					Polarization Of Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP		
			(dBm)	(dBm)	(dB)	Average	Average		
						(dBm)	(mW)		
5.0MHz Band QPSK	1/#Mid	2572.5	-2.12	4.95	27.79	19.48	88.716	Vertical	Pass
		2595	-2.64	4.88	27.71	19.77	94.842	Vertical	Pass
		2617.5	-2.58	4.93	27.95	19.69	93.111	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	2572.5	-2.37	4.81	27.73	19.99	99.770	Vertical	Pass
		2595	-2.47	4.95	27.81	19.70	93.325	Vertical	Pass
		2617.5	-2.59	5.03	27.69	19.80	95.499	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	2575	-2.98	5.01	27.86	19.53	89.743	Vertical	Pass
		2595	-2.6	5	27.65	19.91	97.949	Vertical	Pass
		2615	-2.67	4.87	27.89	19.72	93.756	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	2577.5	-2.9	4.89	27.88	19.86	96.828	Vertical	Pass
		2595	-2.32	4.87	27.84	19.52	89.536	Vertical	Pass
		2612.5	-2.52	4.92	27.93	20.38	109.144	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	2580	-2.53	4.86	27.8	20.40	109.648	Vertical	Pass
		2595	-2.37	4.79	27.83	21.06	127.644	Vertical	Pass
		2610	-2.68	4.89	27.87	20.11	102.565	Vertical	Pass

Radiated Power (EIRP) for Band 38									
Mode	RB/RB SIZE	Frequency	Result					Polarization Of Max. ERP	Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP		
			(dBm)	(dBm)	(dB)	Average	Average		
					(dBm)	(mW)			
5.0MHz Band QPSK	1/#Mid	2572.5	-2.12	4.95	27.79	19.91	97.949	Horizontal	Pass
		2595	-2.64	4.88	27.71	19.56	90.365	Horizontal	Pass
		2617.5	-2.58	4.93	27.95	19.61	91.411	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	2572.5	-2.37	4.81	27.73	20.29	106.905	Horizontal	Pass
		2595	-2.47	4.95	27.81	20.02	100.462	Horizontal	Pass
		2617.5	-2.59	5.03	27.69	19.61	91.411	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	2575	-2.98	5.01	27.86	20.46	111.173	Horizontal	Pass
		2595	-2.6	5	27.65	19.76	94.624	Horizontal	Pass
		2615	-2.67	4.87	27.89	20.26	106.170	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	2577.5	-2.9	4.89	27.88	19.73	93.972	Horizontal	Pass
		2595	-2.32	4.87	27.84	20.04	100.925	Horizontal	Pass
		2612.5	-2.52	4.92	27.93	20.16	103.753	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	2580	-2.53	4.86	27.8	20.12	102.802	Horizontal	Pass
		2595	-2.37	4.79	27.83	21.06	127.644	Horizontal	Pass
		2610	-2.68	4.89	27.87	19.85	96.605	Horizontal	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.9 LTE BAND 66

Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result					Polarization Of Max. ERP	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)		
1.4MHz Band QPSK	1/#Mid	1710.7	-2.02	3.76	28.24	22.46	176.198	Horizontal	Pass
		1745	-1.88	3.91	28.22	22.43	174.985	Horizontal	Pass
		1779.3	-1.75	3.93	28.2	22.52	178.649	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-2.08	3.77	28.23	22.38	172.982	Horizontal	Pass
		1745	-1.99	3.91	28.24	22.34	171.396	Horizontal	Pass
		1778.5	-2.01	3.94	28.25	22.30	169.824	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-1.98	3.77	28.31	22.56	180.302	Horizontal	Pass
		1745	-1.66	3.91	28.22	22.65	184.077	Horizontal	Pass
		1777.5	-1.72	3.94	28.2	22.54	179.473	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1715	-1.87	3.79	28.33	22.67	184.927	Horizontal	Pass
		1745	-1.60	3.95	28.22	22.67	184.927	Horizontal	Pass
		1775	-1.61	3.97	28.19	22.61	182.390	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-1.89	3.79	28.34	22.66	184.502	Horizontal	Pass
		1745	-1.70	3.95	28.22	22.57	180.717	Horizontal	Pass
		1772.5	-1.65	3.97	28.18	22.56	180.302	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1720	-1.86	3.81	28.35	22.68	185.353	Horizontal	Pass
		1745	-1.60	3.96	28.22	22.66	184.502	Horizontal	Pass
		1770	-1.62	4	28.16	22.54	179.473	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-2.97	3.76	28.24	21.51	141.579	Vertical	Pass
		1745	-2.79	3.91	28.22	21.52	141.906	Vertical	Pass
		1779.3	-2.48	3.93	28.2	21.79	151.008	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.48	3.77	28.23	20.98	125.314	Vertical	Pass
		1745	-2.83	3.91	28.24	21.50	141.254	Vertical	Pass
		1778.5	-2.40	3.94	28.25	21.91	155.239	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-2.92	3.77	28.31	21.62	145.211	Vertical	Pass
		1745	-2.65	3.91	28.22	21.66	146.555	Vertical	Pass
		1777.5	-2.82	3.94	28.2	21.44	139.316	Vertical	Pass
10.0MHz Band	1/#Mid	1715	-3.21	3.79	28.34	21.34	136.144	Vertical	Pass
		1745	-2.50	3.95	28.22	21.77	150.314	Vertical	Pass

QPSK		1775	-2.37	3.97	28.18	21.84	152.757	Vertical	Pass
15.0MHz	1/#Mid	1717.5	-3.33	3.81	28.35	21.21	132.130	Vertical	Pass
Band		1745	-2.57	3.96	28.22	21.69	147.571	Vertical	Pass
QPSK		1772.5	-3.05	4	28.16	21.11	129.122	Vertical	Pass
20.0MHz	1/#Mid	1720	-3.41	3.79	28.34	21.14	130.017	Vertical	Pass
Band		1745	-2.60	3.95	28.22	21.67	146.893	Vertical	Pass
QPSK		1770	-2.51	3.97	28.18	21.70	147.911	Vertical	Pass

Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/#Mid	1710.7	-2.85	3.76	28.24	21.63	145.546	Horizontal	Pass
		1745	-2.46	3.91	28.22	21.85	153.109	Horizontal	Pass
		1779.3	-2.64	3.93	28.2	21.63	145.546	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-3.24	3.77	28.23	21.22	132.434	Horizontal	Pass
		1745	-2.49	3.91	28.24	21.84	152.757	Horizontal	Pass
		1778.5	-2.78	3.94	28.25	21.53	142.233	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-2.66	3.77	28.31	21.88	154.170	Horizontal	Pass
		1745	-2.72	3.91	28.22	21.59	144.212	Horizontal	Pass
		1777.5	-2.39	3.94	28.2	21.94	156.315	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-4.49	3.76	28.24	19.99	99.770	Vertical	Pass
		1745	-2.37	3.91	28.22	21.87	153.815	Vertical	Pass
		1779.3	-3.40	3.93	28.2	20.87	122.180	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-3.81	3.77	28.23	20.65	116.145	Vertical	Pass
		1745	-2.43	3.91	28.24	21.90	154.882	Vertical	Pass
		1778.5	-3.67	3.94	28.25	20.64	115.878	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-3.67	3.77	28.31	20.87	122.180	Vertical	Pass
		1745	-3.84	3.91	28.22	20.47	111.429	Vertical	Pass
		1777.5	-3.01	3.94	28.2	21.25	133.352	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

9. SPURIOUS RADIATION EMISSION

RULE PART(S)

FCC: §2.1051, §22.917(a), §24.238(a), §27.53(c)(g)(h)(m)

LIMIT

For Band 7, the minimum permissible attenuation level of any spurious emission is $55 + \log_{10}(P)$ [Watts].

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P)$ [Watts], where P is the transmitter power in Watts.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

- a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \text{ Log}_{10} (p)$, dB; and
- b. for mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \text{ Log}_{10} (p)$, dB at the channel edges and $55 + 10 \text{ Log}_{10} (p)$ at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 26
- LTE Band 38
- LTE Band 66

RESULTS

PASS

9.1 LTE BAND 2

QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1850.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3701.4	-45.47	4.04	33.51	-16.00	-13	-3.00	Horizontal
3701.4	-48.21	4.04	33.51	-18.74	-13	-5.74	Vertical
5552.1	-51.69	5.24	35.84	-21.09	-13	-8.09	Vertical
5552.1	-52.05	5.24	35.84	-21.45	-13	-8.45	Horizontal
186.9	-42.06	1.43	16.02	-27.47	-13	-14.47	Vertical
364.6	-42.23	1.30	17.99	-25.54	-13	-12.54	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-46.38	4.04	33.56	-16.86	-13	-3.86	Horizontal
3760.0	-52.47	4.04	33.56	-22.95	-13	-9.95	Vertical
5640.0	-51.67	5.24	35.91	-21.00	-13	-8.00	Vertical
5640.0	-51.46	5.24	35.91	-20.79	-13	-7.79	Horizontal
211.8	-42.56	1.62	16.97	-27.21	-13	-14.21	Vertical
326.1	-40.79	1.74	15.98	-26.56	-13	-13.56	Horizontal
Test Results for High Channel 1909.3MHz							
3818.6	-49.66	4.04	34.00	-19.70	-13	-6.70	Horizontal
3818.6	-48.32	4.04	34.00	-18.36	-13	-5.36	Vertical
5727.9	-48.24	5.24	36.04	-17.44	-13	-4.44	Vertical
5727.9	-52.39	5.24	36.04	-21.59	-13	-8.59	Horizontal
190.3	-36.72	1.42	17.29	-20.85	-13	-7.85	Vertical
365.8	-41.34	1.50	17.90	-24.93	-13	-11.93	Horizontal

QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 1860MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3720.0	-50.26	4.07	33.54	-20.79	-13	-7.79	Horizontal
3720.0	-48.02	4.07	33.54	-18.55	-13	-5.55	Vertical
5580.0	-48.60	5.28	35.86	-18.02	-13	-5.02	Vertical
5580.0	-50.91	5.28	35.86	-20.33	-13	-7.33	Horizontal
188.8	-40.27	1.58	16.89	-24.95	-13	-11.95	Vertical
459.6	-37.28	1.76	17.26	-21.78	-13	-8.78	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-48.00	4.04	33.56	-18.48	-13	-5.48	Horizontal
3760.0	-50.97	4.04	33.56	-21.45	-13	-8.45	Vertical
5640.0	-49.77	5.24	35.91	-19.10	-13	-6.10	Vertical
5640.0	-51.27	5.24	35.91	-20.60	-13	-7.60	Horizontal
182.6	-36.26	1.46	16.27	-21.45	-13	-8.45	Vertical
415.6	-43.69	1.59	15.15	-30.13	-13	-17.13	Horizontal
Test Results for High Channel 1900MHz							
3800.0	-46.55	4.04	34.00	-16.59	-13	-3.59	Horizontal
3800.0	-49.67	4.04	34.00	-19.71	-13	-6.71	Vertical
5700.0	-52.90	5.24	36.04	-22.10	-13	-9.10	Vertical
5700.0	-49.42	5.24	36.04	-18.62	-13	-5.62	Horizontal
205.1	-44.48	1.36	17.39	-28.44	-13	-15.44	Vertical
452.7	-43.94	1.66	15.39	-30.21	-13	-17.21	Horizontal

9.2 LTE BAND 4

QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1710.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-46.44	4.02	29.80	-20.66	-13	-7.66	Horizontal
3421.4	-50.97	4.02	29.80	-25.19	-13	-12.19	Vertical
5132.1	-47.35	5.24	35.84	-16.75	-13	-3.75	Vertical
5132.1	-51.78	5.24	35.84	-21.18	-13	-8.18	Horizontal
192.6	-36.77	1.68	16.04	-22.41	-13	-9.41	Vertical
416.3	-39.80	1.78	17.74	-23.84	-13	-10.84	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-45.24	4.03	30.00	-19.27	-13	-6.27	Horizontal
3465.0	-53.98	4.03	30.00	-28.01	-13	-15.01	Vertical
5197.5	-49.35	5.25	35.86	-18.74	-13	-5.74	Vertical
5197.5	-50.11	5.25	35.86	-19.50	-13	-6.50	Horizontal
176.0	-36.44	1.72	17.69	-20.47	-13	-7.47	Vertical
333.4	-35.57	1.62	16.02	-21.16	-13	-8.16	Horizontal
Test Results for High Channel 1754.3MHz							
3508.6	-45.39	4.05	30.01	-19.43	-13	-6.43	Horizontal
3508.6	-52.98	4.05	30.01	-27.02	-13	-14.02	Vertical
5262.9	-47.95	5.26	35.86	-17.35	-13	-4.35	Vertical
5262.9	-52.53	5.26	35.86	-21.93	-13	-8.93	Horizontal
203.5	-44.01	1.80	16.69	-29.12	-13	-16.12	Vertical
403.2	-42.94	1.75	16.66	-28.04	-13	-15.04	Horizontal

QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 1720MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-45.61	4.02	29.80	-19.83	-13	-6.83	Horizontal
3440.0	-53.83	4.02	29.80	-28.05	-13	-15.05	Vertical
5160.0	-47.52	5.24	35.84	-16.92	-13	-3.92	Vertical
5160.0	-49.77	5.24	35.84	-19.17	-13	-6.17	Horizontal
195.6	-40.89	1.57	17.26	-25.20	-13	-12.20	Vertical
299.4	-38.68	1.78	16.35	-24.11	-13	-11.11	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-45.00	4.03	30.00	-19.03	-13	-6.03	Horizontal
3465.0	-44.19	4.03	30.00	-18.22	-13	-5.22	Vertical
5197.5	-48.63	5.25	35.86	-18.02	-13	-5.02	Vertical
5197.5	-53.71	5.25	35.86	-23.10	-13	-10.10	Horizontal
175.5	-35.76	1.44	17.95	-19.25	-13	-6.25	Vertical
467.8	-38.42	1.65	16.09	-23.98	-13	-10.98	Horizontal
Test Results for High Channel 1745MHz							
3490.0	-50.44	2.91	27.68	-25.67	-13	-12.67	Horizontal
3490.0	-48.35	2.91	27.68	-23.58	-13	-10.58	Vertical
5235.0	-48.52	5.26	35.86	-17.92	-13	-4.92	Vertical
5235.0	-51.60	5.26	35.86	-21.00	-13	-8.00	Horizontal
210.9	-37.07	1.61	16.85	-21.83	-13	-8.83	Vertical
245.5	-42.84	1.61	15.19	-29.26	-13	-16.26	Horizontal

9.3 LTE BAND 5

QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 824.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-52.73	2.78	27.50	-28.01	-13	-15.01	Horizontal
1649.4	-45.05	2.78	27.50	-20.33	-13	-7.33	Vertical
2474.1	-53.78	2.90	27.80	-28.88	-13	-15.88	Vertical
2474.1	-53.76	2.90	27.80	-28.86	-13	-15.86	Horizontal
197.0	-43.95	1.76	17.59	-28.12	-13	-15.12	Vertical
261.7	-34.90	1.63	15.87	-20.66	-13	-7.66	Horizontal
Test Results For Mid Channel 836.5MHz							
1673.0	-47.68	2.80	27.48	-23.00	-13	-10.00	Horizontal
1673.0	-52.45	2.80	27.48	-27.77	-13	-14.77	Vertical
2509.5	-49.90	2.91	27.70	-25.11	-13	-12.11	Vertical
2509.5	-50.14	2.91	27.70	-25.35	-13	-12.35	Horizontal
178.9	-38.33	1.61	15.68	-24.26	-13	-11.26	Vertical
356.0	-42.61	1.59	17.52	-26.69	-13	-13.69	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-50.18	2.82	27.43	-25.57	-13	-12.57	Horizontal
1696.6	-51.81	2.82	27.43	-27.20	-13	-14.20	Vertical
2544.9	-45.15	2.92	27.74	-20.33	-13	-7.33	Vertical
2544.9	-51.92	2.92	27.74	-27.10	-13	-14.10	Horizontal
202.8	-41.00	1.69	16.67	-26.01	-13	-13.01	Vertical
261.0	-37.77	1.70	17.18	-22.29	-13	-9.29	Horizontal

QPSK EIRP POWER FOR LTE BAND 5 (10MHZ BANDWIDTH)

Test Results for Low Channel 829MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1658.0	-50.52	2.78	27.50	-25.80	-13	-12.80	Horizontal
1658.0	-48.81	2.78	27.50	-24.09	-13	-11.09	Vertical
2487.0	-44.30	2.90	27.80	-19.40	-13	-6.40	Vertical
2487.0	-49.40	2.90	27.80	-24.50	-13	-11.50	Horizontal
186.4	-42.91	1.71	15.57	-29.05	-13	-16.05	Vertical
397.1	-36.59	1.34	16.40	-21.53	-13	-8.53	Horizontal
Test Results for Mid Channel 836.5MHz							
1673.0	-46.65	2.80	27.48	-21.97	-13	-8.97	Horizontal
1673.0	-52.07	2.80	27.48	-27.39	-13	-14.39	Vertical
2509.5	-51.03	2.91	27.70	-26.24	-13	-13.24	Vertical
2509.5	-53.95	2.91	27.70	-29.16	-13	-16.16	Horizontal
206.0	-37.75	1.44	17.04	-22.15	-13	-9.15	Vertical
317.3	-38.62	1.76	17.62	-22.76	-13	-9.76	Horizontal
Test Results for High Channel 844MHz							
1688.0	-51.86	2.82	27.43	-27.25	-13	-14.25	Horizontal
1688.0	-47.77	2.82	27.43	-23.16	-13	-10.16	Vertical
2532.0	-48.43	2.92	27.74	-23.61	-13	-10.61	Vertical
2532.0	-51.13	2.92	27.74	-26.31	-13	-13.31	Horizontal
207.1	-36.68	1.74	17.70	-20.72	-13	-7.72	Vertical
377.8	-38.08	1.41	17.46	-22.02	-13	-9.02	Horizontal

9.4 LTE BAND 7

QPSK EIRP POWER FOR LTE BAND 7 (5.0MHZ BANDWIDTH)

Test Results for Low Channel 2502.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5005.0	-60.75	5.23	35.81	-30.17	-25	-5.17	Horizontal
5005.0	-61.17	5.23	35.81	-30.59	-25	-5.59	Vertical
7507.5	-61.86	5.67	36.85	-30.68	-25	-5.68	Vertical
7507.5	-62.46	5.67	36.85	-31.28	-25	-6.28	Horizontal
201.8	-46.65	1.73	17.97	-30.41	-25	-5.41	Vertical
282.2	-53.00	1.38	15.11	-39.27	-25	-14.27	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-60.24	5.23	35.82	-29.65	-25	-4.65	Horizontal
5070.0	-60.02	5.23	35.82	-29.43	-25	-4.43	Vertical
7605.0	-59.20	5.67	36.85	-28.02	-25	-3.02	Vertical
7605.0	-61.22	5.67	36.85	-30.04	-25	-5.04	Horizontal
208.8	-50.66	1.77	16.17	-36.25	-25	-11.25	Vertical
425.7	-45.93	1.63	15.21	-32.35	-25	-7.35	Horizontal
Test Results for High Channel 2567.5MHz							
5135.0	-63.90	5.24	35.83	-33.31	-25	-8.31	Horizontal
5135.0	-59.01	5.24	35.83	-28.42	-25	-3.42	Vertical
7702.5	-62.70	5.68	36.87	-31.51	-25	-6.51	Vertical
7702.5	-60.86	5.68	36.87	-29.67	-25	-4.67	Horizontal
176.2	-54.70	1.58	17.56	-38.72	-25	-13.72	Vertical
439.2	-49.66	1.45	16.58	-34.53	-25	-9.53	Horizontal

QPSK EIRP POWER FOR LTE BAND 7 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 2510MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5020.0	-63.78	5.23	35.82	-33.19	-25	-8.19	Horizontal
5020.0	-62.08	5.23	35.82	-31.49	-25	-6.49	Vertical
7530.0	-61.84	5.67	36.86	-30.65	-25	-5.65	Vertical
7530.0	-62.58	5.67	36.86	-31.39	-25	-6.39	Horizontal
180.6	-52.84	1.63	15.76	-38.71	-25	-13.71	Vertical
301.9	-44.71	1.71	15.44	-30.98	-25	-5.98	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-64.23	5.23	35.82	-33.64	-25	-8.64	Horizontal
5070.0	-63.05	5.23	35.82	-32.46	-25	-7.46	Vertical
7605.0	-59.31	5.67	36.85	-28.13	-25	-3.13	Vertical
7605.0	-64.85	5.67	36.85	-33.67	-25	-8.67	Horizontal
205.2	-44.45	1.79	16.84	-29.39	-25	-4.39	Vertical
284.0	-50.17	1.71	17.64	-34.24	-25	-9.24	Horizontal
Test Results for High Channel 2560MHz							
5120.0	-63.83	5.24	35.83	-33.24	-25	-8.24	Horizontal
5120.0	-63.03	5.24	35.83	-32.44	-25	-7.44	Vertical
7680.0	-64.63	5.70	36.88	-33.45	-25	-8.45	Vertical
7680.0	-62.73	5.70	36.88	-31.55	-25	-6.55	Horizontal
185.5	-47.61	1.79	16.84	-32.55	-25	-7.55	Vertical
374.2	-46.66	1.71	17.64	-30.73	-25	-5.73	Horizontal

9.5 LTE BAND 26

QPSK EIRP POWER FOR LTE BAND 26(814MHz~824MHz) (1.4MHZ BANDWIDTH)

Test Results for Low Channel 814.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1629.4	-49.13	2.78	27.50	-24.41	-13	-11.41	Horizontal
1629.4	-46.87	2.78	27.50	-22.15	-13	-9.15	Vertical
2444.1	-47.22	2.90	27.80	-22.32	-13	-9.32	Vertical
2444.1	-49.27	2.90	27.80	-24.37	-13	-11.37	Horizontal
229.6	-32.55	1.54	16.98	-17.11	-13	-4.11	Vertical
83.3	-34.94	1.47	15.82	-20.59	-13	-7.59	Horizontal
Test Results For Mid Channel 819MHz							
1638.0	-47.39	2.80	27.48	-22.71	-13	-9.71	Horizontal
1638.0	-45.62	2.80	27.48	-20.94	-13	-7.94	Vertical
2457.0	-47.58	2.91	27.70	-22.79	-13	-9.79	Vertical
2457.0	-47.23	2.91	27.70	-22.44	-13	-9.44	Horizontal
168.2	-33.04	1.74	16.19	-18.59	-13	-5.59	Vertical
92.9	-32.14	1.46	15.43	-18.17	-13	-5.17	Horizontal
Test Results for High Channel 823.3MHz							
1646.6	-47.28	2.82	27.43	-22.67	-13	-9.67	Horizontal
1646.6	-46.18	2.82	27.43	-21.57	-13	-8.57	Vertical
2469.9	-47.59	2.92	27.74	-22.77	-13	-9.77	Vertical
2469.9	-47.41	2.92	27.74	-22.59	-13	-9.59	Horizontal
213.1	-33.11	1.67	17.05	-17.73	-13	-4.73	Vertical
121.7	-32.60	1.42	16.12	-17.90	-13	-4.90	Horizontal

QPSK EIRP POWER FOR LTE BAND 26(814MHz~824MHz) (1.4MHZ BANDWIDTH)

Test Results for Channel 819MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1638.0	-48.51	2.78	27.50	-23.79	-13	-10.79	Horizontal
1638.0	-49.32	2.78	27.50	-24.60	-13	-11.60	Vertical
2457.0	-49.13	2.90	27.80	-24.23	-13	-11.23	Vertical
2457.0	-49.25	2.90	27.80	-24.35	-13	-11.35	Horizontal
253.7	-32.49	1.43	17.34	-16.58	-13	-3.58	Vertical
256.8	-34.47	1.56	15.71	-20.32	-13	-7.32	Horizontal

QPSK EIRP POWER FOR LTE BAND 26(824MHz~849MHz) (1.4MHZ BANDWIDTH)

Test Results for Low Channel 824.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-46.76	2.78	27.50	-22.04	-13	-9.04	Horizontal
1649.4	-48.82	2.78	27.50	-24.10	-13	-11.10	Vertical
2474.1	-48.37	2.90	27.80	-23.47	-13	-10.47	Vertical
2474.1	-47.43	2.90	27.80	-22.53	-13	-9.53	Horizontal
237.0	-34.10	1.33	17.34	-18.09	-13	-5.09	Vertical
180.5	-33.03	1.47	16.80	-17.70	-13	-4.70	Horizontal
Test Results For Mid Channel 836.5MHz							
1673.0	-46.11	2.80	27.48	-21.43	-13	-8.43	Horizontal
1673.0	-45.82	2.80	27.48	-21.14	-13	-8.14	Vertical
2509.5	-48.39	2.91	27.70	-23.60	-13	-10.60	Vertical
2509.5	-49.66	2.91	27.70	-24.87	-13	-11.87	Horizontal
140.8	-33.74	1.75	15.46	-20.03	-13	-7.03	Vertical
90.6	-32.91	1.52	16.14	-18.29	-13	-5.29	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-47.55	2.82	27.43	-22.94	-13	-9.94	Horizontal
1696.6	-49.10	2.82	27.43	-24.49	-13	-11.49	Vertical
2544.9	-49.51	2.92	27.74	-24.69	-13	-11.69	Vertical
2544.9	-48.09	2.92	27.74	-23.27	-13	-10.27	Horizontal
171.4	-33.48	1.67	16.09	-19.06	-13	-6.06	Vertical
247.2	-33.53	1.80	17.55	-17.78	-13	-4.78	Horizontal

QPSK EIRP POWER FOR LTE BAND 26(824MHz~849MHz) (15MHZ BANDWIDTH)

Test Results for Low Channel 831.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1663.0	-48.37	2.78	27.50	-23.65	-13	-10.65	Horizontal
1663.0	-42.52	2.78	27.50	-17.80	-13	-4.80	Vertical
2494.5	-49.48	2.90	27.80	-24.58	-13	-11.58	Vertical
2494.5	-46.38	2.90	27.80	-21.48	-13	-8.48	Horizontal
255.4	-32.01	1.52	15.72	-17.81	-13	-4.81	Vertical
163.1	-32.02	1.40	17.03	-16.39	-13	-3.39	Horizontal
Test Results for Mid Channel 836.5MHz							
1673.0	-47.06	2.80	27.48	-22.38	-13	-9.38	Horizontal
1673.0	-46.95	2.80	27.48	-22.27	-13	-9.27	Vertical
2509.5	-49.47	2.91	27.70	-24.68	-13	-11.68	Vertical
2509.5	-46.33	2.91	27.70	-21.54	-13	-8.54	Horizontal
227.1	-32.00	1.74	16.38	-17.36	-13	-4.36	Vertical
101.3	-32.22	1.79	15.20	-18.81	-13	-5.81	Horizontal
Test Results for High Channel 841.5MHz							
1683.0	-49.57	2.82	27.43	-24.96	-13	-11.96	Horizontal
1683.0	-48.33	2.82	27.43	-23.72	-13	-10.72	Vertical
2524.5	-48.91	2.92	27.74	-24.09	-13	-11.09	Vertical
2524.5	-48.63	2.92	27.74	-23.81	-13	-10.81	Horizontal
261.1	-34.93	1.78	17.44	-19.27	-13	-6.27	Vertical
120.1	-33.51	1.70	15.93	-19.28	-13	-6.28	Horizontal

9.6 LTE BAND 38

QPSK EIRP POWER FOR LTE BAND 38 (5MHZ BANDWIDTH)

Test Results for Low Channel 2572.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5145	-49.64	4.01	27.5	-26.15	-13	-13.15	Horizontal
5145	-53.35	4.01	27.5	-29.86	-13	-16.86	Vertical
7717.5	-50.56	5.09	27.8	-27.85	-13	-14.85	Vertical
7717.5	-50.56	5.09	27.8	-27.85	-13	-14.85	Horizontal
Test Results For Mid Channel 2595MHz							
5190	-53.33	4.1	27.48	-29.95	-13	-16.95	Horizontal
5190	-50.82	4.1	27.48	-27.44	-13	-14.44	Vertical
7785	-50.40	5.42	27.7	-28.12	-13	-15.12	Vertical
7785	-50.15	5.42	27.7	-27.87	-13	-14.87	Horizontal
Test Results for High Channel 2617.5MHz							
5234	-51.64	4.11	27.43	-28.32	-13	-15.32	Horizontal
5234	-54.04	4.11	27.43	-30.72	-13	-17.72	Vertical
7851	-52.17	5.31	27.74	-29.74	-13	-16.74	Vertical
7851	-51.78	5.31	27.74	-29.35	-13	-16.35	Horizontal

QPSK EIRP POWER FOR LTE BAND 38 (20MHZ BANDWIDTH)

Test Results for Low Channel 2580MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5160	-53.38	3.89	27.5	-29.77	-13	-16.77	Horizontal
5160	-51.37	3.89	27.5	-27.76	-13	-14.76	Vertical
7740	-51.14	5.33	27.8	-28.67	-13	-15.67	Vertical
7740	-49.74	5.33	27.8	-27.27	-13	-14.27	Horizontal
Test Results for Mid Channel 2595MHz							
5190	-53.82	4.1	27.48	-30.44	-13	-17.44	Horizontal
5190	-52.76	4.1	27.48	-29.38	-13	-16.38	Vertical
7785	-54.32	5.42	27.7	-32.04	-13	-19.04	Vertical
7785	-51.99	5.42	27.7	-29.71	-13	-16.71	Horizontal
Test Results for High Channel 2610MHz							
5220	-53.23	4.01	27.43	-29.81	-13	-16.81	Horizontal
5220	-50.87	4.01	27.43	-27.45	-13	-14.45	Vertical
7830	-51.12	5.34	27.74	-28.72	-13	-15.72	Vertical
7830	-49.88	5.34	27.74	-27.48	-13	-14.48	Horizontal

Note: $P_{Mea}(dBm) = Power(dBm) + ARpl(dBm)$

Over Limit = $P_{Mea}(dBm) - Limit(dBm)$

We test both H direction and V direction, recorded worst case direction.

Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.7 LTE BAND 66

QPSK EIRP POWER FOR LTE BAND 66 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1710.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-51.87	4.02	29.80	-26.09	-13	-13.09	Horizontal
3421.4	-50.34	4.02	29.80	-24.56	-13	-11.56	Vertical
5132.1	-53.84	5.24	35.84	-23.24	-13	-10.24	Vertical
5132.1	-52.24	5.24	35.84	-21.64	-13	-8.64	Horizontal
112.6	-47.38	1.52	15.57	-33.33	-13	-20.33	Vertical
220.5	-53.12	1.33	17.14	-37.31	-13	-24.31	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-45.58	4.03	30.00	-19.61	-13	-6.61	Horizontal
3490.0	-44.89	4.03	30.00	-18.92	-13	-5.92	Vertical
5235.0	-54.46	5.25	35.86	-23.85	-13	-10.85	Vertical
5235.0	-54.67	5.25	35.86	-24.06	-13	-11.06	Horizontal
157.3	-47.59	1.53	17.13	-31.99	-13	-18.99	Vertical
213.1	-44.81	1.41	15.95	-30.27	-13	-17.27	Horizontal
Test Results for High Channel 1779.3MHz							
3558.6	-50.39	4.05	30.01	-24.43	-13	-11.43	Horizontal
3558.6	-52.75	4.05	30.01	-26.79	-13	-13.79	Vertical
5337.9	-54.08	5.26	35.86	-23.48	-13	-10.48	Vertical
5337.9	-54.46	5.26	35.86	-23.86	-13	-10.86	Horizontal
170.6	-53.31	1.44	15.51	-39.24	-13	-26.24	Vertical
169.0	-46.49	1.78	15.76	-32.51	-13	-19.51	Horizontal

QPSK EIRP POWER FOR LTE BAND 66 (20MHZ BANDWIDTH)

Test Results for Low Channel 1720MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-49.97	4.02	29.80	-24.19	-13	-11.19	Horizontal
3440.0	-50.39	4.02	29.80	-24.61	-13	-11.61	Vertical
5160.0	-51.62	5.24	35.84	-21.02	-13	-8.02	Vertical
5160.0	-52.68	5.24	35.84	-22.08	-13	-9.08	Horizontal
268.8	-50.71	1.62	17.02	-35.31	-13	-22.31	Vertical
161.4	-46.73	1.32	17.31	-30.74	-13	-17.74	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-53.60	4.03	30.00	-27.63	-13	-14.63	Horizontal
3490.0	-46.54	4.03	30.00	-20.57	-13	-7.57	Vertical
5235.0	-51.60	5.25	35.86	-20.99	-13	-7.99	Vertical
5235.0	-47.18	5.25	35.86	-16.57	-13	-3.57	Horizontal
159.9	-51.44	1.45	15.17	-37.72	-13	-24.72	Vertical
172.1	-53.42	1.48	17.82	-37.08	-13	-24.08	Horizontal
Test Results for High Channel 1770MHz							
3540.0	-53.38	2.91	27.68	-28.61	-13	-15.61	Horizontal
3540.0	-45.68	2.91	27.68	-20.91	-13	-7.91	Vertical
5310.0	-51.99	5.26	35.86	-21.39	-13	-8.39	Vertical
5310.0	-48.61	5.26	35.86	-18.01	-13	-5.01	Horizontal
197.3	-51.65	1.76	16.38	-37.03	-13	-24.03	Vertical
158.5	-53.71	1.43	17.13	-38.01	-13	-25.01	Horizontal

Note: $P_{Mea}(dBm) = Power(dBm) + ARpl(dBm)$

Over Limit = $P_{Mea}(dBm) - Limit(dBm)$

We test both H direction and V direction, recorded worst case direction.

Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

10. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30° to $+50^{\circ}\text{C}$
- Voltage = low voltage, DC 34V, Normal, DC 3.8V and High voltage, DC 4.2V.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to -30°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 26
- LTE Band 38
- LTE Band 66

RESULTS

See the following pages.

10.1 LTE BAND 2

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 QPSK, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1880	13.0	0.006890	2.5
3.8	1880	14.1	0.007495	2.5
4.2	1880	13.5	0.007177	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 QPSK, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1880	13.1	0.006989	2.5
Extreme (50C)	1880	11.9	0.006352	2.5
Extreme (40C)	1880	13.5	0.007159	2.5
Extreme (30C)	1880	13.4	0.007148	2.5
Extreme (10C)	1880	13.7	0.007292	2.5
Extreme (0C)	1880	12.0	0.006407	2.5
Extreme (-10C)	1880	13.1	0.006974	2.5
Extreme (-20C)	1880	14.4	0.007679	2.5
Extreme (-30C)	1880	14.9	0.007952	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 16QAM, (CH 18900 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	1880	10.3	0.005470	2.5
3.8	1880	8.8	0.004673	2.5
4.2	1880	8.4	0.004446	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 16QAM, (CH 18900 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	1880	9.9	0.005265	2.5
Extreme (50C)	1880	8.5	0.004510	2.5
Extreme (40C)	1880	7.7	0.004077	2.5
Extreme (30C)	1880	9.0	0.004810	2.5
Extreme (10C)	1880	8.8	0.004701	2.5
Extreme (0C)	1880	8.0	0.004234	2.5
Extreme (-10C)	1880	9.4	0.004997	2.5
Extreme (-20C)	1880	8.6	0.004559	2.5
Extreme (-30C)	1880	8.3	0.004390	2.5

*Note: Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.2 LTE BAND 4

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 QPSK, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1732.5	9.0	0.005188	2.5
3.8	1732.5	8.7	0.005010	2.5
4.2	1732.5	8.7	0.005001	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 QPSK, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1732.5	8.5	0.004925	2.5
Extreme (50C)	1732.5	8.4	0.004876	2.5
Extreme (40C)	1732.5	7.9	0.004541	2.5
Extreme (30C)	1732.5	5.9	0.003406	2.5
Extreme (10C)	1732.5	7.1	0.004107	2.5
Extreme (0C)	1732.5	9.7	0.005617	2.5
Extreme (-10C)	1732.5	8.2	0.004727	2.5
Extreme (-20C)	1732.5	6.7	0.003878	2.5
Extreme (-30C)	1732.5	8.9	0.005114	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 16QAM, (CH 20175 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	1732.5	9.3	0.005376	2.5
3.8	1732.5	9.1	0.005243	2.5
4.2	1732.5	7.7	0.004449	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 16QAM, (CH 20175 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	1732.5	9.2	0.005311	2.5
Extreme (50C)	1732.5	9.0	0.005212	2.5
Extreme (40C)	1732.5	8.2	0.004715	2.5
Extreme (30C)	1732.5	9.4	0.005414	2.5
Extreme (10C)	1732.5	9.0	0.005178	2.5
Extreme (0C)	1732.5	7.8	0.004481	2.5
Extreme (-10C)	1732.5	8.7	0.005013	2.5
Extreme (-20C)	1732.5	9.4	0.005415	2.5
Extreme (-30C)	1732.5	8.1	0.004703	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.3 LTE BAND 5

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	836.5	5.9	0.007014	2.5
3.8	836.5	6.6	0.007888	2.5
4.2	836.5	4.9	0.005916	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	836.5	6.1	0.007251	2.5
Extreme (50C)	836.5	5.9	0.007008	2.5
Extreme (40C)	836.5	6.5	0.007779	2.5
Extreme (30C)	836.5	6.8	0.008117	2.5
Extreme (10C)	836.5	5.9	0.007012	2.5
Extreme (0C)	836.5	5.0	0.006002	2.5
Extreme (-10C)	836.5	5.6	0.006698	2.5
Extreme (-20C)	836.5	6.2	0.007402	2.5
Extreme (-30C)	836.5	6.5	0.007736	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	836.5	5.9	0.007007	2.5
3.8	836.5	6.5	0.007761	2.5
4.2	836.5	4.9	0.005878	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	836.5	6.4	0.007596	2.5
Extreme (50C)	836.5	6.0	0.007128	2.5
Extreme (40C)	836.5	6.5	0.007824	2.5
Extreme (30C)	836.5	6.8	0.008156	2.5
Extreme (10C)	836.5	5.6	0.006751	2.5
Extreme (0C)	836.5	5.1	0.006122	2.5
Extreme (-10C)	836.5	5.2	0.006235	2.5
Extreme (-20C)	836.5	6.2	0.007436	2.5
Extreme (-30C)	836.5	6.7	0.007977	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.4 LTE BAND 7

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 QPSK, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2535	9.9	0.003911	2.5
3.8	2535	8.6	0.003393	2.5
4.2	2535	7.9	0.003122	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 QPSK, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2535	9.9	0.003899	2.5
Extreme (50C)	2535	9.0	0.003565	2.5
Extreme (40C)	2535	8.0	0.003150	2.5
Extreme (30C)	2535	8.9	0.003528	2.5
Extreme (10C)	2535	8.1	0.003213	2.5
Extreme (0C)	2535	8.3	0.003283	2.5
Extreme (-10C)	2535	9.8	0.003847	2.5
Extreme (-20C)	2535	9.4	0.003697	2.5
Extreme (-30C)	2535	7.9	0.003128	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 16QAM, (CH 21100 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	2535	7.9	0.003116	2.5
3.8	2535	6.1	0.002396	2.5
4.2	2535	5.6	0.002217	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 16QAM, (CH 21100 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	2535	6.9	0.002722	2.5
Extreme (50C)	2535	6.1	0.002389	2.5
Extreme (40C)	2535	5.3	0.002093	2.5
Extreme (30C)	2535	7.0	0.002748	2.5
Extreme (10C)	2535	5.6	0.002192	2.5
Extreme (0C)	2535	5.2	0.002062	2.5
Extreme (-10C)	2535	5.4	0.002137	2.5
Extreme (-20C)	2535	6.1	0.002392	2.5
Extreme (-30C)	2535	6.0	0.002377	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.5 LTE BAND 26

Band 26 A (814MHz~824MHz) QPSK,10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26A QPSK, (CH 26740 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	819	20	0.02442	2.5
3.8	819	14	0.01709	2.5
4.2	819	14	0.01709	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26A QPSK, (CH 26740RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	819	6	0.00733	2.5
Extreme (50C)	819	19	0.02320	2.5
Extreme (40C)	819	4	0.00488	2.5
Extreme (30C)	819	14	0.01709	2.5
Extreme (10C)	819	5	0.00611	2.5
Extreme (0C)	819	8	0.00977	2.5
Extreme (-10C)	819	11	0.01343	2.5
Extreme (-20C)	819	1	0.00122	2.5
Extreme (-30C)	819	13	0.01587	2.5

Band 26A (814MHz~824MHz) 16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26A 16QAM, (CH 26740 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	819	7	0.00855	2.5
3.8	819	9	0.01099	2.5
4.2	819	1	0.00122	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26A 16QAM, (CH 26740 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	819	20	0.02442	2.5
Extreme (50C)	819	25	0.03053	2.5
Extreme (40C)	819	26	0.03175	2.5
Extreme (30C)	819	18	0.02198	2.5
Extreme (10C)	819	13	0.01587	2.5
Extreme (0C)	819	5	0.00611	2.5
Extreme (-10C)	819	23	0.02808	2.5
Extreme (-20C)	819	25	0.03053	2.5
Extreme (-30C)	819	3	0.00366	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

Band 26B ((824MHz~849MHz) QPSK,15MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26B QPSK, (CH 26915 RB size 75 RB Offset 0 15MHz BANDWIDTH)				
3.4	836.5	4	0.00478	2.5
3.8	836.5	21	0.02510	2.5
4.2	836.5	21	0.02510	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26B QPSK, (CH 26915 RB size 75 RB Offset 0 15MHz BANDWIDTH)				
Normal (25C)	836.5	1	0.00120	2.5
Extreme (50C)	836.5	19	0.02271	2.5
Extreme (40C)	836.5	15	0.01793	2.5
Extreme (30C)	836.5	11	0.01315	2.5
Extreme (10C)	836.5	18	0.02152	2.5
Extreme (0C)	836.5	12	0.01435	2.5
Extreme (-10C)	836.5	6	0.00717	2.5
Extreme (-20C)	836.5	7	0.00837	2.5
Extreme (-30C)	836.5	21	0.02510	2.5

Band 26B (824MHz~849MHz) 16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26B 16QAM, (CH 26915 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	836.5	10	0.01195	2.5
3.8	836.5	19	0.02271	2.5
4.2	836.5	24	0.02869	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26B 16QAM, (CH 26915 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	836.5	12	0.01435	2.5
Extreme (50C)	836.5	8	0.00956	2.5
Extreme (40C)	836.5	11	0.01315	2.5
Extreme (30C)	836.5	17	0.02032	2.5
Extreme (10C)	836.5	5	0.00598	2.5
Extreme (0C)	836.5	17	0.02032	2.5
Extreme (-10C)	836.5	20	0.02391	2.5
Extreme (-20C)	836.5	26	0.03108	2.5
Extreme (-30C)	836.5	5	0.00598	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication

10.6 LTE BAND 38

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 38 QPSK, (CH 37850 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2595	25	0.00963	2.5
3.8	2595	25	0.00963	2.5
4.2	2595	9	0.00347	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 38 QPSK, (CH 37850 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2595	23	0.00886	2.5
Extreme (50C)	2595	9	0.00347	2.5
Extreme (40C)	2595	12	0.00462	2.5
Extreme (30C)	2595	16	0.00617	2.5
Extreme (10C)	2595	13	0.00501	2.5
Extreme (0C)	2595	23	0.00886	2.5
Extreme (-10C)	2595	25	0.00963	2.5
Extreme (-20C)	2595	22	0.00848	2.5
Extreme (-30C)	2595	19	0.00732	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 38 16QAM, (CH 37850 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	2595	21	0.00809	2.5
3.8	2595	10	0.00385	2.5
4.2	2595	4	0.00154	2.5

Frequency error vs. Temperature

Temperature [° C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 38 16QAM, (CH 37850 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	2595	15	0.00578	2.5
Extreme (50C)	2595	18	0.00694	2.5
Extreme (40C)	2595	26	0.01002	2.5
Extreme (30C)	2595	14	0.00539	2.5
Extreme (10C)	2595	15	0.00578	2.5
Extreme (0C)	2595	16	0.00617	2.5
Extreme (-10C)	2595	13	0.00501	2.5
Extreme (-20C)	2595	6	0.00231	2.5
Extreme (-30C)	2595	11	0.00424	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.7 LTE BAND 66

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 QPSK, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1745	7.5	0.003915	2.5
3.8	1745	7.3	0.003812	2.5
4.2	1745	7.3	0.004172	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 QPSK, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1745	5.2	0.002985	2.5
Extreme (50C)	1745	7.5	0.004317	2.5
Extreme (40C)	1745	6.7	0.003454	2.5
Extreme (30C)	1745	7.9	0.003974	2.5
Extreme (10C)	1745	7.9	0.004509	2.5
Extreme (0C)	1745	6.0	0.003463	2.5
Extreme (-10C)	1745	6.4	0.003313	2.5
Extreme (-20C)	1745	6.8	0.003852	2.5
Extreme (-30C)	1745	6.7	0.003423	2.5

16QAM, (5MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 16QAM, (CH 132322 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
3.4	1745	8.7	0.00462	2.5
3.8	1745	8.3	0.004436	2.5
4.2	1745	9.2	0.005194	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 16QAM, (CH 132322 RB size 25 RB Offset 0 5MHz BANDWIDTH)				
Normal (25C)	1745	9.8	0.005061	2.5
Extreme (50C)	1745	8.1	0.004447	2.5
Extreme (40C)	1745	8.9	0.004757	2.5
Extreme (30C)	1745	8.7	0.004539	2.5
Extreme (10C)	1745	8.4	0.004636	2.5
Extreme (0C)	1745	7.1	0.003824	2.5
Extreme (-10C)	1745	9.1	0.004745	2.5
Extreme (-20C)	1745	9.1	0.004918	2.5
Extreme (-30C)	1745	5.3	0.003037	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

11. Peak-to-Average Ratio

11.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

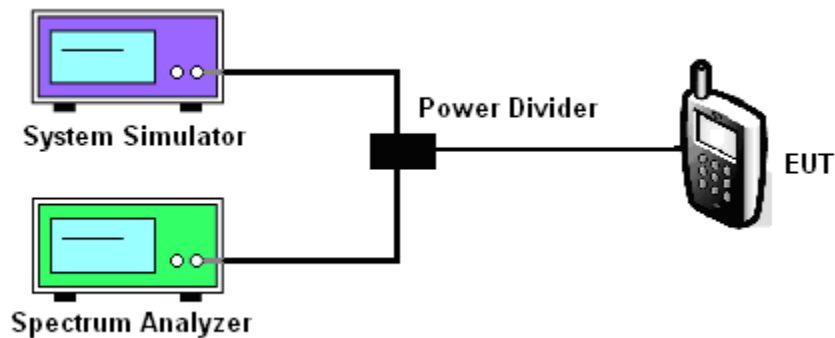
11.2 Measuring Instruments

See list of measuring instruments of this test report.

11.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. For GSM/EGPRS operating modes:
 - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
 - b. Set EUT in maximum power output, and triggered the burst signal.
 - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

11.4 Test Setup



MODES TESTED

- LTE Band 2/4/5/7/26/38/66
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Test data reference attachment.

----END OF REPORT----