

FCC/IC RF Test Report

APPLICANT : Sony Mobile Communications Inc.
EQUIPMENT : Smart phone
BRAND NAME : SONY
TYPE NAME : PM-0865-BV
FCC ID : PY7-PM0865
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27
IC RSS-132 issue 3
IC RSS-133 issue 6
IC RSS-139 issue 2
IC RSS-199 issue 2

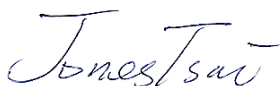
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

This is a partial report which is included the conducted power and radiated test items. The product was received on Dec. 31, 2014 and completely tested on Feb. 05, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D3146B	Rev. 01	Initial issue of report	Mar. 31, 2015



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1046	RSS-Gen(4.8) RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4) RSS-199 (4.4)	Conducted Output Power	Reporting Only	PASS	-
4.4	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	
	§24.232(c) §27.50(h)(2)	RSS-133 (6.4) SRSP-510(5.1.2) RSS-199 (4.4)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt		
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-GEN(4.9) RSS-132 (5.5) RSS-133 (6.5.1) RSS-139 (6.5)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5)	< 43+10log10(P[Watts])	PASS	Under limit 6.68 dB at 12504.000 MHz
	§2.1053 §27.53(m)(4)	RSS-GEN(4.9) RSS-199 (4.5)	Radiated Spurious Emission (Band 7)	< 55+10log10(P[Watts])		

1 General Description

1.1 Applicant

Sony Mobile Communications Inc.
Nya Vattentorget, 22188 Lund, Sweden

1.2 Manufacturer

Arima Communications Corp.
6F, No. 866, Jhongjheng Rd., Jhonghe Dist., New Taipei City 23586, Taiwan

1.3 Product Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is Smart phone supporting, GSM/WCDMA/LTE / Wi-Fi 2.4 802.11b/g/n / 5GHz 802.11a/n, Bluetooth with FM Receiver, GPS, and NFC features, and below is details of information.

General Information of Equipment Under Test	
Equipment	Smart phone
Brand Name	SONY
Type Name	PM-0865-BV
FCC ID	PY7-PM0865
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12, EGPRS Class 12
WCDMA Operating Band(s)	FDD Band I / II / IV / V / VIII
WCDMA Rel. Version	Rel. 8
LTE Operating Band(s)	FDD Band II / IV / V / VII / XII / XIII / XVII
LTE Rel. Version	Rel. 8
Wi-Fi Specification	802.11a/b/g/n (HT20/HT40)
Bluetooth Version	v3.0+EDR / v4.0-LE
NFC Specification	ISO14443A / ISO14443B / Felica
Power Supply	Battery/AC adapter/Car Charger

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 2 : 21.82 dBm LTE Band 4 : 22.33 dBm LTE Band 5 : 22.89 dBm LTE Band 7 : 22.21 dBm
Type of Modulation	QPSK / 16QAM

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI1: 004402453913885 IMEI2: 004402453913893	A	27.1.B.1.15	RX4C20D14223	Conducted Measurement Radiated Spurious Emission ERP /EIRP Test

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : AC-0030-US
	S/N : 3113W46622783
Battery	Model No. : Ram
Earphone	Model No. : MH410c
	Type No. : AG-1103
	S/N : 1411204C00BC7D0
USB Cable	Model No. : EC450
	Type No. : AI-0700
	S/N : 143912D8330504A

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Emission Designator

LTE Band 2	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.0982	0.0782
3	0.0857	0.0748
5	0.0843	0.0736
10	0.0951	0.0780
15	0.0843	0.0796
20	0.1009	0.0832
LTE Band 4	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.1452	0.1199
3	0.1429	0.1074
5	0.1432	0.1178
10	0.1318	0.1096
15	0.1358	0.1140
20	0.1276	0.1127
LTE Band 5	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	0.0565	0.0541
3	0.0614	0.0479
5	0.0681	0.0509
10	0.0675	0.0675
LTE Band 7	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
5	0.1343	0.1089
10	0.1327	0.1099
15	0.1361	0.1202
20	0.1259	0.1035

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH02-HY	

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Kwei-Shan District, Tao Yuan City, Taiwan (R.O.C.) TEL: +886-3-327-0855	
Test Site No.	Sporton Site No.	IC Registration No.
	03CH11-HY	4086H-2



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ IC RSS-132 Issue 3
- ♦ IC RSS-133 Issue 6
- ♦ IC RSS-139 Issue 2
- ♦ IC RSS-199 Issue 2
- ♦ IC RSS-Gen Issue 4
- ♦ NOTICE 2012-DRS0126

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.



2 Test Configuration of Equipment Under Test

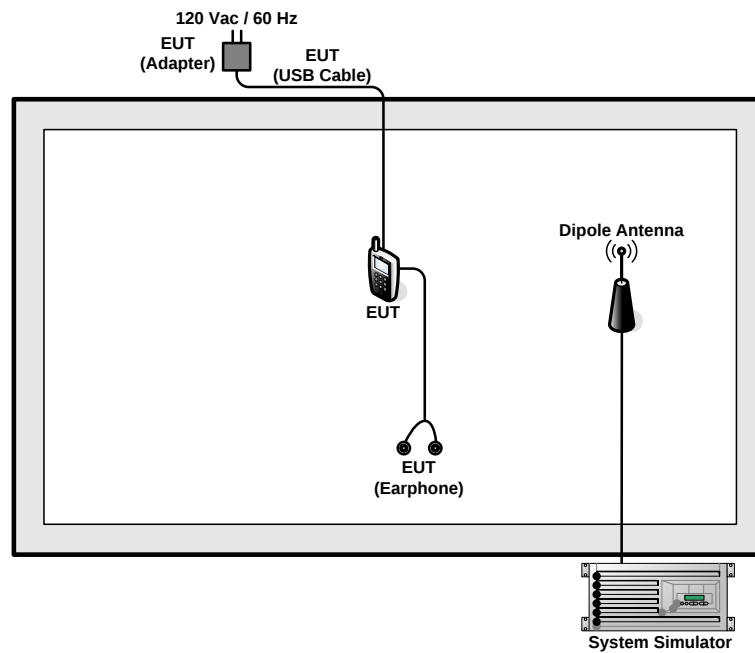
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E.R.P./ E.I.R.P.	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓		✓			✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓		✓			✓	✓	✓
Note	- The mark "✓" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

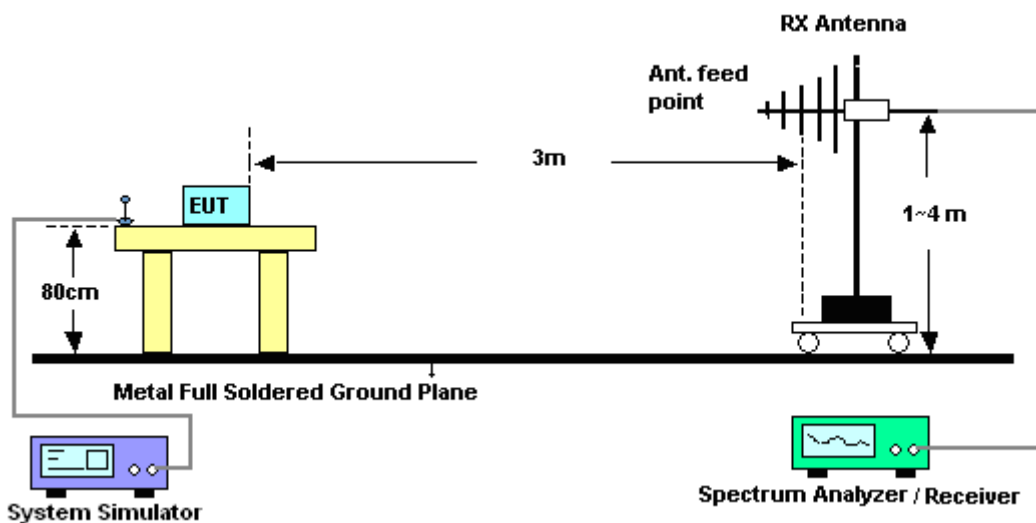
4 Radiated Test Items

4.1 Measuring Instruments

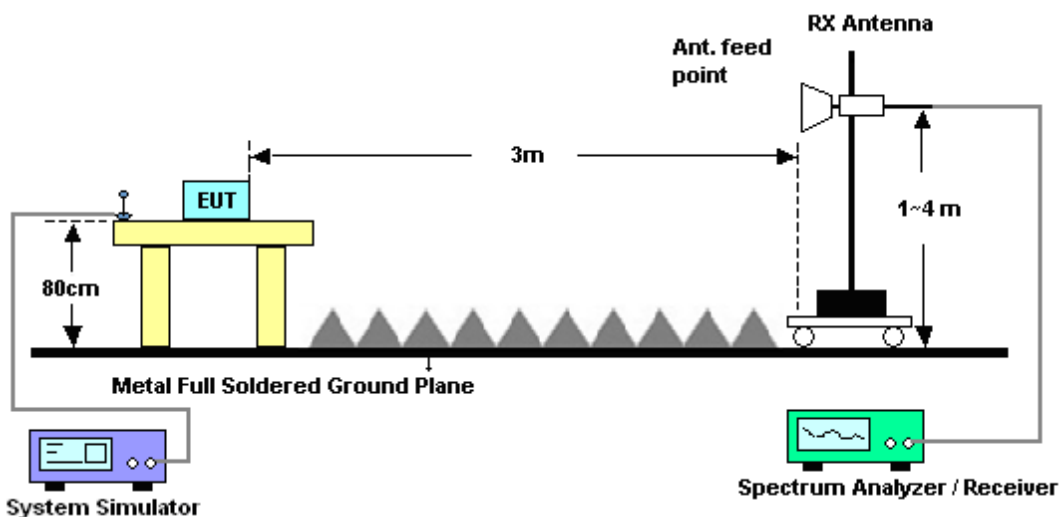
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Effective Radiated Power and Effective Isotropic Radiated Power

4.4.1 Description of the ERP/EIRP Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 7 and 1 watt with LTE band 4.

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.



	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Average	Average	Average	Average	Average	Average
Average Type	Power	Power	Power	Power	Power	Power
Sweep Count	100	100	100	100	100	100

4.5 Radiated Spurious Emission

4.5.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm.}$$

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

$$12. \text{ EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$13. \text{ ERP (dBm)} = \text{EIRP} - 2.15$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201026480	30MHz~2.7GHz SISO	Jan. 08, 2015	Feb. 05, 2015	Jan. 07, 2016	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 06, 2014	Feb. 05, 2015	May 05, 2015	Conducted (TH02-HY)
RF cable	WOKEN	S05	S05-130708-038	N/A	Jan. 21, 2015	Feb. 05, 2015	Jan. 20, 2016	Conducted (TH02-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 26.5GHz	Nov. 05, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 04, 2015	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Sep. 24, 2014	Jan. 28, 2015~ Jan. 31, 2015	Sep. 23, 2015	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Oct. 24, 2014	Jan. 28, 2015~ Jan. 31, 2015	Oct. 23, 2015	Radiation (03CH11-HY)
Double Ridged Guide Horn	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 03, 2014	Jan. 28, 2015~ Jan. 31, 2015	Oct. 02, 2015	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 03, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 02, 2015	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 20, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 19, 2015	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	0.1MHz~1000MHz	Nov. 24, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 23, 2015	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 09, 2014	Jan. 28, 2015~ Jan. 31, 2015	Jun. 08, 2015	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	1m-4m	N/A	Jan. 28, 2015~ Jan. 31, 2015	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Jan. 28, 2015~ Jan. 31, 2015	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1~4m	N/A	Jan. 28, 2015~ Jan. 31, 2015	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 19, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 18, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE	25GHz~40GHz	Nov. 06, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE	30MHz~1GHz	Nov. 06, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY44614PE	1GHz~25GHz	Nov. 06, 2014	Jan. 28, 2015~ Jan. 31, 2015	Nov. 05, 2015	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCG824/849-40/8SS	SN35	CDMA 850	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31,	Sep. 30, 2015	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCT1850/1910-40/8S	SN21	1900	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31,	Sep. 30, 2015	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCG1710/1755-1690/1	SN2	AWS Band	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31,	Sep. 30, 2015	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCT2500/2570-10/40-	SN1 R	LTE Band7	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31,	Sep. 30, 2015	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Microwave	H3G018G1	SN477215	1.0G High Pass	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
Filter	Wainwright	WLKS1200- 8SS	SN3	1.2G Low Pass	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31, 2015	Sep. 30, 2015	Radiation (03CH11-HY)
Filter	Microwave	H3G018G1	SN279268	3.0G High Pass	Oct. 01, 2014	Jan. 28, 2015 ~ Jan. 31, 2015	Sep. 30, 2015	Radiation (03CH11-HY)



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.90
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.47	21.57	21.65
1.4	1	2		21.57	21.66	21.74
1.4	1	5		21.46	21.56	21.64
1.4	3	0		21.58	21.66	21.76
1.4	3	1		21.52	21.64	21.70
1.4	3	2		21.52	21.63	21.71
1.4	6	0		20.55	20.66	20.76
1.4	1	0	16-QAM	20.79	20.85	20.89
1.4	1	2		20.90	20.95	20.98
1.4	1	5		20.77	20.85	20.87
1.4	3	0		20.62	20.69	20.76
1.4	3	1		20.56	20.66	20.71
1.4	3	2		20.55	20.65	20.69
1.4	6	0		19.64	19.74	19.82
3	1	0	QPSK	21.48	21.57	21.68
3	1	7		21.55	21.62	21.70
3	1	14		21.45	21.55	21.66
3	8	0		20.63	20.73	20.81
3	8	4		20.61	20.70	20.80
3	8	7		20.59	20.72	20.78
3	15	0		20.60	20.71	20.81
3	1	0	16-QAM	20.77	20.87	20.95
3	1	7		20.86	20.92	20.95
3	1	14		20.75	20.86	20.88
3	8	0		19.69	19.77	19.84
3	8	4		19.68	19.74	19.83
3	8	7		19.65	19.76	19.82
3	15	0		19.60	19.71	19.78



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.55	21.67	21.74
5	1	12		21.55	21.67	21.76
5	1	24		21.49	21.61	21.67
5	12	0		20.64	20.76	20.86
5	12	6		20.63	20.74	20.85
5	12	11		20.63	20.74	20.85
5	25	0		20.60	20.70	20.82
5	1	0	16-QAM	20.86	20.94	21.02
5	1	12		20.86	20.94	21.00
5	1	24		20.80	20.89	20.88
5	12	0		19.66	19.75	19.85
5	12	6		19.64	19.73	19.84
5	12	11		19.64	19.74	19.83
5	25	0		19.60	19.69	19.79
10	1	0	QPSK	21.61	21.65	21.79
10	1	24		21.58	21.67	21.77
10	1	49		21.52	21.62	21.72
10	25	0		20.62	20.73	20.85
10	25	12		20.62	20.69	20.82
10	25	24		20.59	20.71	20.83
10	50	0		20.64	20.74	20.86
10	1	0	16-QAM	20.91	20.94	21.08
10	1	24		20.89	20.96	21.04
10	1	49		20.83	20.92	20.92
10	25	0		19.62	19.70	19.84
10	25	12		19.62	19.68	19.81
10	25	24		19.59	19.70	19.80
10	50	0		19.64	19.72	19.84



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.64	21.69	21.79
15	1	37		21.63	21.69	21.81
15	1	74		21.55	21.66	21.73
15	36	0		20.71	20.78	20.86
15	36	18		20.68	20.76	20.87
15	36	37		20.65	20.76	20.87
15	75	0		20.66	20.77	20.87
15	1	0	16-QAM	20.96	20.97	21.10
15	1	37		20.95	20.98	21.12
15	1	74		20.86	20.95	20.95
15	36	0		19.70	19.76	19.85
15	36	18		19.65	19.76	19.86
15	36	37		19.63	19.74	19.83
15	75	0		19.66	19.76	19.86
20	1	0	QPSK	21.68	21.70	21.82
20	1	49		21.62	21.69	21.81
20	1	99		21.55	21.69	21.74
20	50	0		20.69	20.81	20.88
20	50	24		20.67	20.78	20.89
20	50	49		20.66	20.75	20.89
20	100	0		20.65	20.77	20.86
20	1	0	16-QAM	20.99	20.98	21.09
20	1	49		20.92	20.98	21.08
20	1	99		20.81	20.98	20.92
20	50	0		19.70	19.78	19.87
20	50	24		19.66	19.77	19.87
20	50	49		19.64	19.73	19.86
20	100	0		19.65	19.74	19.83



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.14	22.25	22.16
1.4	1	2		22.23	22.33	22.26
1.4	1	5		22.11	22.18	22.14
1.4	3	0		22.23	22.19	22.26
1.4	3	1		22.19	22.13	22.19
1.4	3	2		22.17	22.13	22.20
1.4	6	0		21.21	21.19	21.24
1.4	1	0	16-QAM	21.38	21.34	21.42
1.4	1	2		21.49	21.43	21.35
1.4	1	5		21.36	21.35	21.41
1.4	3	0		21.24	21.20	21.28
1.4	3	1		21.19	21.13	21.20
1.4	3	2		21.18	21.13	21.19
1.4	6	0		20.27	20.26	20.31
3	1	0	QPSK	22.13	22.11	22.15
3	1	7		22.10	22.09	22.11
3	1	14		22.10	22.07	22.11
3	8	0		21.23	21.23	21.26
3	8	4		21.23	21.23	21.27
3	8	7		21.23	21.21	21.26
3	15	0		21.23	21.22	21.25
3	1	0	16-QAM	21.42	21.36	21.40
3	1	7		21.36	21.33	21.39
3	1	14		21.34	21.29	21.36
3	8	0		20.26	20.26	20.31
3	8	4		20.26	20.25	20.30
3	8	7		20.27	20.24	20.29
3	15	0		20.22	20.22	20.26



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.63	21.33	21.61
5	1	12		21.51	21.35	21.64
5	1	24		21.46	21.44	21.35
5	12	0		20.68	20.61	20.58
5	12	6		20.64	20.58	20.61
5	12	11		20.62	20.46	20.66
5	25	0		20.57	20.54	20.58
5	1	0	16-QAM	20.86	20.78	20.88
5	1	12		20.89	20.73	20.73
5	1	24		20.76	20.79	20.72
5	12	0		19.64	19.95	19.66
5	12	6		19.49	19.83	19.44
5	12	11		19.55	19.81	19.72
5	25	0		19.59	19.98	19.99
10	1	0	QPSK	21.73	21.64	21.63
10	1	24		21.71	21.61	21.62
10	1	49		21.57	21.53	21.55
10	25	0		20.78	20.67	20.66
10	25	12		20.73	20.65	20.64
10	25	24		20.68	20.62	20.64
10	50	0		20.74	20.68	20.68
10	1	0	16-QAM	21.03	20.90	20.91
10	1	24		21.00	20.86	20.91
10	1	49		20.85	20.80	20.84
10	25	0		19.75	19.65	19.66
10	25	12		19.73	19.63	19.64
10	25	24		19.67	19.61	19.62
10	50	0		19.72	19.67	19.66



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.75	21.64	21.61
15	1	37		21.62	21.56	21.55
15	1	74		21.57	21.53	21.53
15	36	0		20.82	20.72	20.68
15	36	18		20.75	20.70	20.68
15	36	37		20.69	20.68	20.66
15	75	0		20.73	20.68	20.65
15	1	0	16-QAM	21.04	20.89	20.89
15	1	37		20.90	20.81	20.85
15	1	74		20.83	20.80	20.82
15	36	0		19.79	19.70	19.66
15	36	18		19.72	19.67	19.66
15	36	37		19.66	19.65	19.65
15	75	0		19.72	19.65	19.64
20	1	0	QPSK	21.77	21.57	21.67
20	1	49		21.66	21.52	21.59
20	1	99		21.55	21.51	21.54
20	50	0		20.75	20.74	20.70
20	50	24		20.70	20.65	20.63
20	50	49		20.55	20.65	20.63
20	100	0		20.33	20.66	20.64
20	1	0	16-QAM	20.93	20.93	20.92
20	1	49		20.90	20.86	20.87
20	1	99		20.88	20.81	20.83
20	50	0		19.88	19.71	19.67
20	50	24		19.86	19.64	19.63
20	50	49		19.78	19.63	19.60
20	100	0		19.89	19.64	19.62



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.31	22.68	22.33
1.4	1	2		22.37	22.66	22.39
1.4	1	5		22.28	22.67	22.29
1.4	3	0		22.40	22.66	22.41
1.4	3	1		22.32	22.35	22.33
1.4	3	2		22.32	22.67	22.33
1.4	6	0	16-QAM	21.37	21.66	21.38
1.4	1	0		21.64	22.02	21.67
1.4	1	2		21.68	22.14	21.74
1.4	1	5		21.58	21.61	21.64
1.4	3	0		21.44	21.25	21.49
1.4	3	1		21.36	21.19	21.41
1.4	3	2		21.35	21.20	21.39
1.4	6	0		20.47	20.26	20.51
3	1	0	QPSK	22.50	22.55	22.56
3	1	7		22.55	22.65	22.62
3	1	14		22.48	22.56	22.54
3	8	0		21.65	21.68	21.71
3	8	4		21.64	21.65	21.69
3	8	7		21.62	21.67	21.69
3	15	0		21.61	21.61	21.66
3	1	0	16-QAM	21.80	21.92	21.89
3	1	7		21.86	22.01	21.97
3	1	14		21.77	21.91	21.87
3	8	0		20.75	20.80	20.80
3	8	4		20.72	20.77	20.79
3	8	7		20.71	20.80	20.80
3	15	0		20.66	20.69	20.71



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.60	22.63	22.68
5	1	12		22.61	22.69	22.67
5	1	24		22.54	22.60	22.58
5	12	0		21.68	21.69	21.77
5	12	6		21.68	21.70	21.71
5	12	11		21.67	21.71	21.75
5	25	0		21.62	21.63	21.67
5	1	0	16-QAM	21.92	22.03	22.03
5	1	12		21.91	22.06	22.00
5	1	24		21.86	21.96	21.90
5	12	0		20.71	20.78	20.82
5	12	6		20.71	20.76	20.75
5	12	11		20.70	20.77	20.78
5	25	0		20.65	20.69	20.70
10	1	0	QPSK	22.89	22.43	22.44
10	1	24		22.49	22.29	22.33
10	1	49		22.55	22.24	22.30
10	25	0		21.75	21.44	21.45
10	25	12		21.44	21.33	21.35
10	25	24		21.37	21.25	21.54
10	50	0		21.66	21.33	21.24
10	1	0	16-QAM	21.86	21.41	21.54
10	1	24		21.77	21.35	21.64
10	1	49		21.45	21.16	21.17
10	25	0		20.82	20.35	20.69
10	25	12		20.73	20.35	20.84
10	25	24		20.66	20.47	20.83
10	50	0		20.64	20.50	20.94



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.06	22.12	21.98
5	1	12		22.13	22.21	22.01
5	1	24		22.03	22.12	21.94
5	12	0		21.17	21.22	21.07
5	12	6		21.19	21.24	21.07
5	12	11		21.18	21.26	21.09
5	25	0		21.35	21.20	21.04
5	1	0	16-QAM	21.19	21.45	21.25
5	1	12		21.18	21.45	21.34
5	1	24		21.17	21.46	21.26
5	12	0		20.04	20.25	20.11
5	12	6		20.05	20.26	20.13
5	12	11		20.04	20.28	20.14
5	25	0		19.96	20.20	20.06
10	1	0	QPSK	20.86	21.17	20.97
10	1	24		20.92	21.22	21.01
10	1	49		20.91	21.22	21.01
10	25	0		19.94	20.23	20.03
10	25	12		19.94	20.25	20.01
10	25	24		19.86	20.29	20.05
10	50	0		19.94	20.27	20.03
10	1	0	16-QAM	20.21	20.52	20.32
10	1	24		20.28	20.50	20.37
10	1	49		20.27	20.57	20.37
10	25	0		18.81	19.16	18.88
10	25	12		19.14	19.53	19.20
10	25	24		19.01	19.65	18.81
10	50	0		19.00	19.60	19.37



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.02	21.17	21.05
15	1	37		21.08	21.30	21.07
15	1	74		21.10	21.29	21.09
15	36	0		20.12	20.28	20.10
15	36	18		20.16	20.33	20.13
15	36	37		20.14	20.34	20.13
15	75	0		20.12	20.31	20.09
15	1	0	16-QAM	20.31	20.51	20.40
15	1	37		20.42	20.64	20.41
15	1	74		20.39	20.65	20.44
15	36	0		19.13	19.27	19.11
15	36	18		19.16	19.32	19.13
15	36	37		19.16	19.34	19.14
15	75	0		19.14	19.28	19.12
20	1	0	QPSK	20.98	21.17	21.08
20	1	49		21.09	21.23	21.06
20	1	99		21.07	21.30	21.10
20	50	0		20.10	20.24	20.12
20	50	24		20.12	20.31	20.11
20	50	49		20.11	20.33	20.14
20	100	0		20.10	20.25	20.10
20	1	0	16-QAM	20.31	20.46	20.43
20	1	49		20.43	20.58	20.39
20	1	99		20.41	20.67	20.44
20	50	0		19.10	19.24	19.14
20	50	24		19.13	19.31	19.12
20	50	49		19.13	19.33	19.15
20	100	0		19.10	19.24	19.10



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.92	0.0982	18.38	0.0689
Middle		1	0	19.69	0.0931	18.48	0.0705
Highest		1	0	19.00	0.0794	17.61	0.0577
Lowest	16QAM	1	0	18.93	0.0782	16.72	0.0470
Middle		1	0	18.56	0.0718	16.81	0.0480
Highest		1	0	17.91	0.0618	16.00	0.0398
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.28	0.0847	17.17	0.0521
Middle		1	0	19.33	0.0857	17.61	0.0577
Highest		1	0	18.73	0.0746	16.83	0.0482
Lowest	16QAM	1	0	18.74	0.0748	16.60	0.0457
Middle		1	0	18.53	0.0713	16.72	0.0470
Highest		1	0	17.89	0.0615	16.06	0.0404
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	18.76	0.0752	16.61	0.0458
Middle		1	0	19.26	0.0843	17.47	0.0558
Highest		1	0	18.79	0.0757	16.80	0.0479
Lowest	16QAM	1	0	18.67	0.0736	16.43	0.0440
Middle		1	0	18.64	0.0731	16.77	0.0475
Highest		1	0	17.94	0.0622	16.06	0.0404
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	18.52	0.0711	16.77	0.0475
Middle		1	0	19.78	0.0951	18.46	0.0701
Highest		1	0	19.05	0.0804	17.53	0.0566
Lowest	16QAM	1	0	18.14	0.0652	16.44	0.0441
Middle		1	0	18.92	0.0780	17.62	0.0578
Highest		1	0	18.32	0.0679	16.78	0.0476
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.26	0.0843	17.02	0.0504
Middle		1	0	19.26	0.0843	17.44	0.0555
Highest		1	0	18.84	0.0766	16.90	0.0490
Lowest	16QAM	1	0	19.01	0.0796	16.69	0.0467
Middle		1	0	18.46	0.0701	16.63	0.0460
Highest		1	0	18.09	0.0644	16.15	0.0412
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.19	0.0830	16.86	0.0485
Middle		1	0	20.04	0.1009	17.95	0.0624
Highest		1	0	19.03	0.0800	17.70	0.0589
Lowest	16QAM	1	0	18.30	0.0676	16.01	0.0399
Middle		1	0	19.20	0.0832	17.12	0.0515
Highest		1	0	18.31	0.0678	16.98	0.0499
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.83	0.1211	19.99	0.0998
Middle		1	0	21.17	0.1309	19.76	0.0946
Highest		1	0	21.62	0.1452	19.99	0.0998
Lowest	16QAM	1	0	20.05	0.1012	19.21	0.0834
Middle		1	0	20.36	0.1086	19.03	0.0800
Highest		1	0	20.79	0.1199	19.16	0.0824
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.84	0.1213	19.96	0.0991
Middle		1	0	21.07	0.1279	19.75	0.0944
Highest		1	0	21.55	0.1429	20.01	0.1002
Lowest	16QAM	1	0	20.11	0.1026	19.24	0.0839
Middle		1	0	20.31	0.1074	18.93	0.0782
Highest		1	0	20.27	0.1064	19.17	0.0826
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.89	0.1227	20.00	0.1000
Middle		1	0	20.99	0.1256	19.69	0.0931
Highest		1	0	21.56	0.1432	19.98	0.0995
Lowest	16QAM	1	0	20.08	0.1019	19.16	0.0824
Middle		1	0	20.28	0.1067	18.94	0.0783
Highest		1	0	20.71	0.1178	19.13	0.0818
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.20	0.1318	20.11	0.1026
Middle		1	0	21.07	0.1279	19.98	0.0995
Highest		1	0	20.93	0.1239	19.54	0.0899
Lowest	16QAM	1	0	20.40	0.1096	19.29	0.0849
Middle		1	0	20.30	0.1072	19.20	0.0832
Highest		1	0	20.12	0.1028	18.74	0.0748
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.63	0.1156	19.56	0.0904
Middle		1	0	20.77	0.1194	19.62	0.0916
Highest		1	0	21.33	0.1358	19.89	0.0975
Lowest	16QAM	1	0	19.94	0.0986	18.87	0.0771
Middle		1	0	20.03	0.1007	18.88	0.0773
Highest		1	0	20.57	0.1140	19.13	0.0818
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.70	0.1175	19.75	0.0944
Middle		1	0	20.66	0.1164	19.41	0.0873
Highest		1	0	21.06	0.1276	19.76	0.0946
Lowest	16QAM	1	0	19.94	0.0986	19.00	0.0794
Middle		1	0	19.88	0.0973	18.63	0.0729
Highest		1	0	20.52	0.1127	18.85	0.0767
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.52	0.0565	7.03	0.0050
Middle		1	0	17.35	0.0543	6.85	0.0048
Highest		1	0	16.96	0.0497	6.54	0.0045
Lowest	16QAM	1	0	17.33	0.0541	6.62	0.0046
Middle		1	0	16.88	0.0488	6.13	0.0041
Highest		1	0	16.46	0.0443	6.03	0.0040
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.88	0.0614	7.20	0.0052
Middle		1	0	17.69	0.0587	7.00	0.0050
Highest		1	0	17.88	0.0614	6.74	0.0047
Lowest	16QAM	1	0	16.80	0.0479	6.26	0.0042
Middle		1	0	16.77	0.0475	6.12	0.0041
Highest		1	0	16.48	0.0445	6.07	0.0040
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	18.33	0.0681	7.63	0.0058
Middle		1	0	18.00	0.0631	7.31	0.0054
Highest		1	0	17.53	0.0566	7.06	0.0051
Lowest	16QAM	1	0	16.89	0.0489	6.26	0.0042
Middle		1	0	17.07	0.0509	6.43	0.0044
Highest		1	0	16.88	0.0488	6.43	0.0044
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	18.29	0.0675	7.52	0.0056
Middle		1	0	18.28	0.0673	7.20	0.0052
Highest		1	0	17.97	0.0627	7.35	0.0054
Lowest	16QAM	1	0	18.29	0.0675	7.52	0.0056
Middle		1	0	17.63	0.0579	6.90	0.0049
Highest		1	0	17.19	0.0524	6.57	0.0045
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.28	0.1343	20.97	0.1250
Middle		1	0	21.05	0.1274	20.98	0.1253
Highest		1	0	20.37	0.1089	19.89	0.0975
Lowest	16QAM	1	0	20.37	0.1089	20.12	0.1028
Middle		1	0	20.24	0.1057	19.18	0.0828
Highest		1	0	19.61	0.0914	18.94	0.0783
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.23	0.1327	20.95	0.1245
Middle		1	0	20.92	0.1236	20.85	0.1216
Highest		1	0	20.51	0.1125	20.10	0.1023
Lowest	16QAM	1	0	20.41	0.1099	20.41	0.1099
Middle		1	0	20.24	0.1057	19.45	0.0881
Highest		1	0	19.60	0.0912	19.17	0.0826
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.34	0.1361	20.96	0.1247
Middle		1	0	21.09	0.1285	21.03	0.1268
Highest		1	0	20.44	0.1107	20.09	0.1021
Lowest	16QAM	1	0	20.80	0.1202	20.51	0.1125
Middle		1	0	20.29	0.1069	19.64	0.0920
Highest		1	0	19.55	0.0902	19.26	0.0843
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.00	0.1259	20.91	0.1233
Middle		1	0	20.52	0.1127	20.26	0.1062
Highest		1	0	19.66	0.0925	19.66	0.0925
Lowest	16QAM	1	0	20.15	0.1035	20.07	0.1016
Middle		1	0	19.41	0.0873	19.48	0.0887
Highest		1	0	18.85	0.0767	18.97	0.0789
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704	-45.49	-13	-32.49	-60.01	-52.07	1.67	8.24	H
	5556	-38.21	-13	-25.21	-58.31	-45.28	2.66	9.72	H
	7404	-47.04	-13	-34.04	-72.54	-56.19	2.46	11.61	H
	12956	-35.94	-13	-22.94	-73.43	-45.97	2.92	12.95	H
	3704	-50.75	-13	-37.75	-65.36	-57.33	1.67	8.24	V
	5556	-52.76	-13	-39.76	-71.42	-59.83	2.66	9.72	V
	7404	-51.14	-13	-38.14	-75.53	-60.29	2.46	11.61	V
	12956	-46.76	-13	-33.76	-80.44	-56.79	2.92	12.95	V
Middle	3764	-47.89	-13	-34.89	-62.65	-54.52	1.69	8.32	H
	5644	-41.26	-13	-28.26	-61.11	-48.31	2.71	9.76	H
	7532	-50.36	-13	-37.36	-75.25	-59.76	2.42	11.82	H
	13160	-34.81	-13	-21.81	-72.58	-45.06	2.97	13.22	H
	3764	-50.75	-13	-37.75	-65.12	-57.38	1.69	8.32	V
	5644	-53.06	-13	-40.06	-71.54	-60.11	2.71	9.76	V
	7532	-52.31	-13	-39.31	-76.46	-61.71	2.42	11.82	V
	13160	-46.08	-13	-33.08	-80.46	-56.33	2.97	13.22	V
Highest	3820	-46.58	-13	-33.58	-63.5	-53.26	1.70	8.38	H
	5732	-38.48	-13	-25.48	-60.87	-45.51	2.76	9.79	H
	13364	-36.38	-13	-23.38	-76.24	-46.87	3.02	13.51	H
	3820	-51.46	-13	-38.46	-67.91	-58.14	1.70	8.38	V
	5732	-49.30	-13	-36.30	-70.55	-56.33	2.76	9.79	V
	13364	-43.23	-13	-30.23	-80.71	-53.72	3.02	13.51	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704	-45.53	-13	-32.53	-60.16	-52.11	1.67	8.24	H
	5556	-38.29	-13	-25.29	-58.61	-45.36	2.66	9.72	H
	7404	-47.64	-13	-34.64	-73.09	-56.79	2.46	11.61	H
	12956	-34.79	-13	-21.79	-72.29	-44.82	2.92	12.95	H
	3704	-50.21	-13	-37.21	-64.64	-56.79	1.67	8.24	V
	5556	-52.54	-13	-39.54	-71.13	-59.61	2.66	9.72	V
	7404	-51.33	-13	-38.33	-75.75	-60.48	2.46	11.61	V
	12956	-47.02	-13	-34.02	-80.64	-57.05	2.92	12.95	V
Middle	3760	-48.78	-13	-35.78	-63.55	-55.41	1.69	8.31	H
	5640	-40.14	-13	-27.14	-60.05	-47.19	2.71	9.76	H
	9404	-45.34	-13	-32.34	-74.22	-55.31	2.57	12.54	H
	13156	-35.31	-13	-22.31	-73.06	-45.56	2.97	13.22	H
	3760	-50.48	-13	-37.48	-64.96	-57.11	1.69	8.31	V
	5640	-52.63	-13	-39.63	-71.1	-59.68	2.71	9.76	V
	9404	-50.24	-13	-37.24	-75.79	-60.21	2.57	12.54	V
	13156	-45.54	-13	-32.54	-80.09	-55.79	2.97	13.22	V
Highest	3820	-49.08	-13	-36.08	-66.08	-55.76	1.70	8.38	H
	5724	-37.87	-13	-24.87	-60.23	-44.91	2.75	9.79	H
	7632	-47.72	-13	-34.72	-74.68	-57.21	2.39	11.88	H
	13356	-38.63	-13	-25.63	-78.52	-49.11	3.02	13.50	H
	3820	-54.34	-13	-41.34	-70.68	-61.02	1.70	8.38	V
	5724	-47.07	-13	-34.07	-68.26	-54.11	2.75	9.79	V
	7632	-49.75	-13	-36.75	-75.82	-59.24	2.39	11.88	V
	13356	-44.61	-13	-31.61	-82.02	-55.09	3.02	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704	-45.29	-13	-32.29	-59.96	-51.87	1.67	8.24	H
	5556	-38.30	-13	-25.30	-58.43	-45.37	2.66	9.72	H
	7404	-46.19	-13	-33.19	-71.73	-55.34	2.46	11.61	H
	12956	-35.36	-13	-22.36	-73.01	-45.39	2.92	12.95	H
	3704	-50.15	-13	-37.15	-64.68	-56.73	1.67	8.24	V
	5556	-53.47	-13	-40.47	-72.25	-60.54	2.66	9.72	V
	7404	-50.86	-13	-37.86	-75.13	-60.01	2.46	11.61	V
	12956	-46.66	-13	-33.66	-80.2	-56.69	2.92	12.95	V
Middle	3760	-48.56	-13	-35.56	-63.33	-55.19	1.69	8.31	H
	5636	-39.66	-13	-26.66	-59.61	-46.71	2.70	9.75	H
	13148	-36.17	-13	-23.17	-73.93	-46.41	2.97	13.21	H
	16926	-35.85	-13	-22.85	-76.53	-44.67	3.89	12.71	H
	3760	-49.44	-13	-36.44	-63.86	-56.07	1.69	8.31	V
	5636	-50.43	-13	-37.43	-68.93	-57.48	2.70	9.75	V
	13148	-46.01	-13	-33.01	-80.81	-56.25	2.97	13.21	V
	16926	-38.63	-13	-25.63	-78.03	-47.45	3.89	12.71	V
Highest	3816	-45.58	-13	-32.58	-62.53	-52.26	1.70	8.38	H
	5720	-38.73	-13	-25.73	-61.1	-45.77	2.75	9.79	H
	13340	-38.89	-13	-25.89	-78.75	-49.35	3.02	13.48	H
	3816	-50.56	-13	-37.56	-66.87	-57.24	1.70	8.38	V
	5720	-48.94	-13	-35.94	-70.11	-55.98	2.75	9.79	V
	13340	-44.47	-13	-31.47	-81.91	-54.93	3.02	13.48	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-44.75	-13	-31.75	-58.81	-51.32	1.67	8.24	H
	5555	-40.91	-13	-27.91	-60.93	-47.98	2.66	9.72	H
	7403	-45.27	-13	-32.27	-70.74	-54.42	2.46	11.61	H
	9251	-46.31	-13	-33.31	-75.08	-56.37	2.54	12.60	H
	3700	-52.75	-13	-39.75	-66.7	-59.32	1.67	8.24	V
	5555	-54.56	-13	-41.56	-72.7	-61.63	2.66	9.72	V
	7403	-53.64	-13	-40.64	-77.32	-62.79	2.46	11.61	V
	9251	-50.40	-13	-37.40	-76.58	-60.46	2.54	12.60	V
Middle	3749	-49.24	-13	-36.24	-63.54	-55.86	1.68	8.30	H
	5625	-41.13	-13	-28.13	-61.18	-48.18	2.70	9.75	H
	7501	-51.70	-13	-38.70	-76.38	-61.07	2.43	11.80	H
	9377	-49.56	-13	-36.56	-77.93	-59.55	2.56	12.55	H
	3749	-57.67	-13	-44.67	-71.73	-64.29	1.68	8.30	V
	5625	-54.76	-13	-41.76	-72.56	-61.81	2.70	9.75	V
	7501	-54.86	-13	-41.86	-78.92	-64.23	2.43	11.80	V
	9377	-51.50	-13	-38.50	-77.43	-61.49	2.56	12.55	V
Highest	3800	-41.35	-13	-28.35	-57.82	-48.01	1.70	8.36	H
	5700	-37.85	-13	-24.85	-59.67	-44.89	2.74	9.78	H
	7600	-46.75	-13	-33.75	-72.83	-56.21	2.40	11.86	H
	3800	-49.85	-13	-36.85	-65.61	-56.51	1.70	8.36	V
	5700	-51.17	-13	-38.17	-72.03	-58.21	2.74	9.78	V
	7600	-51.26	-13	-38.26	-76.91	-60.72	2.40	11.86	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704	-45.26	-13	-32.26	-59.73	-51.84	1.67	8.24	H
	5556	-39.67	-13	-26.67	-59.94	-46.74	2.66	9.72	H
	7408	-46.48	-13	-33.48	-72.01	-55.64	2.46	11.62	H
	12960	-36.60	-13	-23.60	-74.26	-46.63	2.92	12.95	H
	3704	-50.03	-13	-37.03	-64.42	-56.61	1.67	8.24	V
	5556	-52.81	-13	-39.81	-71.41	-59.88	2.66	9.72	V
	7408	-51.15	-13	-38.15	-75.44	-60.31	2.46	11.62	V
	12960	-46.88	-13	-33.88	-80.6	-56.91	2.92	12.95	V
Middle	3752	-49.50	-13	-36.50	-64.23	-56.12	1.68	8.30	H
	5624	-40.68	-13	-27.68	-60.7	-47.73	2.70	9.75	H
	13116	-38.27	-13	-25.27	-76.13	-48.47	2.96	13.16	H
	3752	-51.51	-13	-38.51	-66.04	-58.13	1.68	8.30	V
	5624	-51.56	-13	-38.56	-70.04	-58.61	2.70	9.75	V
	13116	-46.88	-13	-33.88	-81.21	-57.08	2.96	13.16	V
Highest	3796	-43.01	-13	-30.01	-60.05	-49.67	1.70	8.36	H
	5692	-35.22	-13	-22.22	-57.42	-42.26	2.74	9.78	H
	7588	-46.38	-13	-33.38	-73.33	-55.83	2.40	11.85	H
	13276	-35.00	-13	-22.00	-74.95	-45.39	3.00	13.39	H
	3796	-49.13	-13	-36.13	-65.48	-55.79	1.70	8.36	V
	5692	-47.58	-13	-34.58	-68.52	-54.62	2.74	9.78	V
	7588	-50.82	-13	-37.82	-75.94	-60.27	2.40	11.85	V
	13276	-43.55	-13	-30.55	-80.68	-53.94	3.00	13.39	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704	-52.13	-13	-39.13	-66.76	-58.71	1.67	8.24	H
	5556	-42.01	-13	-29.01	-62.14	-49.08	2.66	9.72	H
	7408	-48.47	-13	-35.47	-73.62	-57.63	2.46	11.62	H
	12960	-38.49	-13	-25.49	-76.19	-48.52	2.92	12.95	H
	3704	-54.43	-13	-41.43	-68.85	-61.01	1.67	8.24	V
	5556	-54.31	-13	-41.31	-72.86	-61.38	2.66	9.72	V
	7408	-52.80	-13	-39.80	-77.09	-61.96	2.46	11.62	V
	12960	-50.18	-13	-37.18	-83.93	-60.21	2.92	12.95	V
Middle	3744	-54.11	-13	-41.11	-68.77	-60.72	1.68	8.29	H
	5616	-43.28	-13	-30.28	-63.31	-50.33	2.69	9.75	H
	7488	-47.77	-13	-34.77	-73.04	-57.11	2.43	11.78	H
	13100	-41.08	-13	-28.08	-78.88	-51.26	2.96	13.14	H
	3744	-51.56	-13	-38.56	-66.07	-58.17	1.68	8.29	V
	5616	-52.16	-13	-39.16	-70.55	-59.21	2.69	9.75	V
	7488	-51.75	-13	-38.75	-76.05	-61.09	2.43	11.78	V
	13100	-48.69	-13	-35.69	-82.95	-58.87	2.96	13.14	V
Highest	3784	-49.18	-13	-36.18	-66.01	-55.83	1.69	8.34	H
	5676	-39.63	-13	-26.63	-61.84	-46.67	2.73	9.77	H
	13240	-37.92	-13	-24.92	-77.76	-48.27	2.99	13.34	H
	3784	-51.61	-13	-38.61	-68.05	-58.26	1.69	8.34	V
	5676	-49.99	-13	-36.99	-70.75	-57.03	2.73	9.77	V
	13240	-45.96	-13	-32.96	-82.84	-56.31	2.99	13.34	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-59.14	-13	-46.14	-70.74	-65.21	1.58	7.65	H
	5130	-57.98	-13	-44.98	-76.82	-65.27	2.41	9.70	H
	6840	-44.64	-13	-31.64	-68	-52.61	2.64	10.61	H
	3420	-53.24	-13	-40.24	-64.58	-59.31	1.58	7.65	V
	5130	-56.20	-13	-43.20	-73.87	-63.49	2.41	9.70	V
	6840	-41.14	-13	-28.14	-63.94	-49.11	2.64	10.61	V
Middle	3462	-55.97	-13	-42.97	-68.03	-62.21	1.59	7.83	H
	5198	-56.02	-13	-43.02	-74.89	-63.27	2.45	9.70	H
	6927	-44.37	-13	-31.37	-66.82	-52.47	2.61	10.71	H
	3462	-50.04	-13	-37.04	-62.52	-56.28	1.59	7.83	V
	5198	-52.23	-13	-39.23	-69.83	-59.48	2.45	9.70	V
	6927	-37.93	-13	-24.93	-60.36	-46.03	2.61	10.71	V
Highest	3511	-56.77	-13	-43.77	-69.63	-63.18	1.61	8.01	H
	5261	-57.00	-13	-44.00	-75.47	-64.21	2.49	9.70	H
	7018	-47.22	-13	-34.22	-70.45	-55.47	2.58	10.84	H
	3511	-49.86	-13	-36.86	-63.41	-56.27	1.61	8.01	V
	5261	-51.38	-13	-38.38	-69.6	-58.59	2.49	9.70	V
	7018	-41.83	-13	-28.83	-64.67	-50.08	2.58	10.84	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-58.36	-13	-45.36	-70.17	-64.43	1.58	7.65	H
	5130	-57.99	-13	-44.99	-77.49	-65.28	2.41	9.70	H
	6843	-45.32	-13	-32.32	-68.52	-53.29	2.64	10.61	H
	3420	-54.20	-13	-41.20	-65.53	-60.27	1.58	7.65	V
	5130	-56.74	-13	-43.74	-74.12	-64.03	2.41	9.70	V
	6843	-42.01	-13	-29.01	-64.68	-49.98	2.64	10.61	V
Middle	3462	-55.85	-13	-42.85	-68.09	-62.09	1.59	7.83	H
	5193	-55.57	-13	-42.57	-74.21	-62.82	2.45	9.70	H
	6924	-44.22	-13	-31.22	-66.77	-52.31	2.62	10.71	H
	3462	-49.47	-13	-36.47	-61.98	-55.71	1.59	7.83	V
	5193	-52.57	-13	-39.57	-70.28	-59.82	2.45	9.70	V
	6924	-39.42	-13	-26.42	-61.72	-47.51	2.62	10.71	V
Highest	3504	-58.18	-13	-45.18	-71.14	-64.58	1.61	8.00	H
	5254	-56.29	-13	-43.29	-74.83	-63.51	2.48	9.70	H
	7011	-47.85	-13	-34.85	-70.89	-56.09	2.59	10.82	H
	3504	-52.92	-13	-39.92	-66.17	-59.32	1.61	8.00	V
	5254	-52.99	-13	-39.99	-70.61	-60.21	2.48	9.70	V
	7011	-41.95	-13	-28.95	-64.79	-50.19	2.59	10.82	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-57.12	-13	-44.12	-68.66	-63.19	1.58	7.65	H
	5130	-57.98	-13	-44.98	-76.62	-65.27	2.41	9.70	H
	6840	-45.64	-13	-32.64	-69.03	-53.61	2.64	10.61	H
	3420	-52.62	-13	-39.62	-63.77	-58.69	1.58	7.65	V
	5130	-57.73	-13	-44.73	-75.09	-65.02	2.41	9.70	V
	6840	-40.32	-13	-27.32	-63.27	-48.29	2.64	10.61	V
Middle	3462	-55.94	-13	-42.94	-68.28	-62.18	1.59	7.83	H
	5191	-55.33	-13	-42.33	-74.14	-62.58	2.45	9.70	H
	6920	-44.79	-13	-31.79	-67.28	-52.88	2.62	10.70	H
	3462	-50.08	-13	-37.08	-62.72	-56.32	1.59	7.83	V
	5191	-51.04	-13	-38.04	-69.01	-58.29	2.45	9.70	V
	6920	-49.09	-13	-36.09	-61.57	-57.18	2.62	10.70	V
Highest	3504	-56.44	-13	-43.44	-69.12	-62.84	1.61	8.00	H
	5254	-57.88	-13	-44.88	-76.4	-65.1	2.48	9.70	H
	7004	-48.05	-13	-35.05	-71.27	-56.27	2.59	10.81	H
	3504	-51.23	-13	-38.23	-64.51	-57.63	1.61	8.00	V
	5254	-53.60	-13	-40.60	-71.51	-60.82	2.48	9.70	V
	7004	-42.17	-13	-29.17	-64.92	-50.39	2.59	10.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-58.11	-13	-45.11	-69.92	-64.18	1.58	7.65	H
	5130	-59.94	-13	-46.94	-78.72	-67.23	2.41	9.70	H
	6843	-45.05	-13	-32.05	-68.39	-53.02	2.64	10.61	H
	3420	-52.96	-13	-39.96	-64.33	-59.03	1.58	7.65	V
	5130	-57.24	-13	-44.24	-74.98	-64.53	2.41	9.70	V
	6843	-41.55	-13	-28.55	-63.76	-49.52	2.64	10.61	V
Middle	3455	-54.82	-13	-41.82	-66.82	-61.03	1.59	7.80	H
	5184	-56.21	-13	-43.21	-74.94	-63.47	2.44	9.70	H
	6913	-44.16	-13	-31.16	-66.85	-52.24	2.62	10.70	H
	3455	-47.06	-13	-34.06	-61.22	-53.27	1.59	7.80	V
	5184	-53.13	-13	-40.13	-71.01	-60.39	2.44	9.70	V
	6913	-39.13	-13	-26.13	-61.49	-47.21	2.62	10.70	V
Highest	3490	-57.14	-13	-44.14	-69.9	-63.49	1.60	7.96	H
	5240	-56.36	-13	-43.36	-74.78	-63.58	2.48	9.70	H
	6983	-46.25	-13	-33.25	-69.17	-54.43	2.60	10.78	H
	3490	-51.24	-13	-38.24	-64.31	-57.59	1.60	7.96	V
	5240	-52.96	-13	-39.96	-70.71	-60.18	2.48	9.70	V
	6983	-40.16	-13	-27.16	-62.78	-48.34	2.60	10.78	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-55.99	-13	-42.99	-67.57	-62.06	1.58	7.65	H
	5135	-56.30	-13	-43.30	-75.1	-63.59	2.41	9.70	H
	6843	-43.12	-13	-30.12	-66.36	-51.09	2.64	10.61	H
	3420	-55.22	-13	-42.22	-67.05	-61.29	1.58	7.65	V
	5135	-53.20	-13	-40.20	-70.88	-60.49	2.41	9.70	V
	6843	-39.96	-13	-26.96	-62.67	-47.93	2.64	10.61	V
Middle	3455	-55.00	-13	-42.00	-67.04	-61.21	1.59	7.80	H
	5177	-57.77	-13	-44.77	-76.41	-65.03	2.44	9.70	H
	6906	-43.82	-13	-30.82	-66.33	-51.89	2.62	10.69	H
	3455	-49.76	-13	-36.76	-61.81	-55.97	1.59	7.80	V
	5177	-53.80	-13	-40.80	-71.33	-61.06	2.44	9.70	V
	6906	-41.12	-13	-28.12	-63.5	-49.19	2.62	10.69	V
Highest	3480	-57.90	-13	-44.90	-70.5	-64.21	1.60	7.91	H
	5220	-54.18	-13	-41.18	-72.61	-61.42	2.46	9.70	H
	6960	-44.24	-13	-31.24	-66.96	-52.39	2.60	10.75	H
	3480	-55.17	-13	-42.17	-68.26	-61.48	1.60	7.91	V
	5220	-49.88	-13	-36.88	-67.5	-57.12	2.46	9.70	V
	6960	-40.81	-13	-27.81	-633	-48.96	2.60	10.75	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-60.14	-13	-47.14	-71.66	-66.21	1.58	7.65	H
	5135	-57.98	-13	-44.98	-76.56	-65.27	2.41	9.70	H
	6843	-45.22	-13	-32.22	-68.59	-53.19	2.64	10.61	H
	3420	-58.20	-13	-45.20	-69.44	-64.27	1.58	7.65	V
	5135	-55.03	-13	-42.03	-72.67	-62.32	2.41	9.70	V
	6843	-41.50	-13	-28.50	-64.05	-49.47	2.64	10.61	V
Middle	3448	-56.40	-13	-43.40	-68.62	-62.58	1.59	7.77	H
	5170	-55.92	-13	-42.92	-74.58	-63.19	2.43	9.70	H
	6892	-43.23	-13	-30.23	-65.79	-51.28	2.63	10.67	H
	3448	-52.85	-13	-39.85	-64.89	-59.03	1.59	7.77	V
	5170	-52.36	-13	-39.36	-69.91	-59.63	2.43	9.70	V
	6892	-39.53	-13	-26.53	-61.86	-47.58	2.63	10.67	V
Highest	3470	-58.25	-13	-45.25	-70.77	-64.52	1.59	7.87	H
	5205	-54.95	-13	-41.95	-73.51	-62.19	2.46	9.70	H
	6940	-42.35	-13	-29.35	-65.36	-50.47	2.61	10.73	H
	3470	-53.86	-13	-40.86	-66.65	-60.13	1.59	7.87	V
	5205	-51.33	-13	-38.33	-69.04	-58.57	2.46	9.70	V
	6940	-39.81	-13	-26.81	-62.19	-47.93	2.61	10.73	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-45.86	-13	-32.86	-63.22	-47.62	0.98	4.89	H
	2472	-50.81	-13	-37.81	-72.64	-52.69	1.28	5.32	H
	3296	-63.80	-13	-50.80	-75.8	-67.21	1.54	7.10	H
	1648	-61.00	-13	-48.00	-63.47	-62.76	0.98	4.89	V
	2472	-62.64	-13	-49.64	-72.98	-64.52	1.28	5.32	V
	3296	-64.78	-13	-51.78	-75.73	-68.19	1.54	7.10	V
Middle	1672	-60.01	-13	-47.01	-64.17	-61.69	0.99	4.82	H
	2512	-60.99	-13	-47.99	-69.76	-62.96	1.29	5.41	H
	3344	-63.97	-13	-50.97	-75.64	-67.58	1.56	7.31	H
	1672	-60.81	-13	-47.81	-63.61	-62.49	0.99	4.82	V
	2512	-60.87	-13	-47.87	-71.06	-62.84	1.29	5.41	V
	3344	-63.24	-13	-50.24	-74.03	-66.85	1.56	7.31	V
Highest	1696	-61.13	-13	-48.13	-65.44	-62.73	1.00	4.75	H
	2542	-62.31	-13	-49.31	-71.77	-64.29	1.30	5.43	H
	3390	-63.49	-13	-50.49	-75.49	-67.29	1.57	7.52	H
	1696	-64.03	-13	-51.03	-67.36	-65.63	1.00	4.75	V
	2542	-63.31	-13	-50.31	-73.52	-65.29	1.30	5.43	V
	3390	-63.39	-13	-50.39	-75	-67.19	1.57	7.52	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-59.45	-13	-46.45	-63.48	-61.21	0.98	4.89	H
	2472	-62.98	-13	-49.98	-72.2	-64.86	1.28	5.32	H
	3296	-63.78	-13	-50.78	-75.8	-67.19	1.54	7.10	H
	1648	-60.73	-13	-47.73	-64	-62.49	0.98	4.89	V
	2472	-62.39	-13	-49.39	-72.44	-64.27	1.28	5.32	V
	3296	-64.95	-13	-51.95	-75.73	-68.36	1.54	7.10	V
Middle	1672	-63.04	-13	-50.04	-66.78	-64.72	0.99	4.82	H
	2504	-60.25	-13	-47.25	-69.58	-62.21	1.29	5.40	H
	3340	-63.84	-13	-50.84	-75.38	-67.43	1.55	7.30	H
	1672	-64.28	-13	-51.28	-67.11	-65.96	0.99	4.82	V
	2504	-60.63	-13	-47.63	-71	-62.59	1.29	5.40	V
	3340	-64.42	-13	-51.42	-75.45	-68.01	1.55	7.30	V
Highest	1692	-60.96	-13	-47.96	-65.07	-62.58	1.00	4.76	H
	2538	-61.91	-13	-48.91	-71.5	-63.89	1.30	5.43	H
	3384	-64.16	-13	-51.16	-75.83	-67.93	1.57	7.49	H
	1692	-65.67	-13	-52.67	-68.96	-67.29	1.00	4.76	V
	2538	-64.87	-13	-51.87	-74.51	-66.85	1.30	5.43	V
	3384	-64.25	-13	-51.25	-75.75	-68.02	1.57	7.49	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-59.99	-13	-46.99	-64.47	-61.75	0.98	4.89	H
	2472	-61.33	-13	-48.33	-70.45	-63.21	1.28	5.32	H
	3296	-63.88	-13	-50.88	-75.72	-67.29	1.54	7.10	H
	1648	-61.52	-13	-48.52	-64.41	-63.28	0.98	4.89	V
	2472	-60.85	-13	-47.85	-71.18	-62.73	1.28	5.32	V
	3296	-64.83	-13	-51.83	-75.79	-68.24	1.54	7.10	V
Middle	1672	-65.01	-13	-52.01	-69.26	-66.69	0.99	4.82	H
	2504	-58.00	-13	-45.00	-67.16	-59.96	1.29	5.40	H
	3336	-63.91	-13	-50.91	-75.7	-67.49	1.55	7.28	H
	1672	-65.28	-13	-52.28	-67.97	-66.96	0.99	4.82	V
	2504	-61.53	-13	-48.53	-71.65	-63.49	1.29	5.40	V
	3336	-64.67	-13	-51.67	-75.53	-68.25	1.55	7.28	V
Highest	1688	-60.12	-13	-47.12	-64.34	-61.75	1.00	4.77	H
	2536	-62.73	-13	-49.73	-72.09	-64.71	1.30	5.43	H
	3376	-63.78	-13	-50.78	-75.66	-67.52	1.57	7.45	H
	1688	-61.79	-13	-48.79	-64.34	-63.42	1.00	4.77	V
	2536	-64.41	-13	-51.41	-74.32	-66.39	1.30	5.43	V
	3376	-63.94	-13	-50.94	-75.54	-67.68	1.57	7.45	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-58.92	-13	-45.92	-63.4	-60.68	0.98	4.89	H
	2472	-59.61	-13	-46.61	-69.22	-61.49	1.28	5.32	H
	3296	-63.87	-13	-50.87	-75.85	-67.28	1.54	7.10	H
	1648	-62.20	-13	-49.20	-65.16	-63.96	0.98	4.89	V
	2472	-59.40	-13	-46.40	-69.47	-61.28	1.28	5.32	V
	3296	-64.55	-13	-51.55	-75.47	-67.96	1.54	7.10	V
Middle	1663	-70.25	-13	-57.25	-74.6	-71.96	0.98	4.84	H
	2500	-64.00	-13	-51.00	-72.73	-65.96	1.29	5.40	H
	3326	-64.88	-13	-51.88	-76.83	-68.41	1.55	7.23	H
	1663	-71.53	-13	-58.53	-74.48	-73.24	0.98	4.84	V
	2500	-65.45	-13	-52.45	-74.71	-67.41	1.29	5.40	V
	3326	-65.76	-13	-52.76	-76.84	-69.29	1.55	7.23	V
Highest	1678	-60.30	-13	-47.30	-64.5	-61.96	0.99	4.80	H
	2517	-59.85	-13	-46.85	-68.89	-61.82	1.30	5.41	H
	3356	-64.00	-13	-51.00	-75.53	-67.66	1.56	7.37	H
	1678	-60.30	-13	-47.30	-62.68	-61.96	0.99	4.80	V
	2517	-62.79	-13	-49.79	-72.8	-64.76	1.30	5.41	V
	3356	-64.55	-13	-51.55	-75.76	-68.21	1.56	7.37	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-51.82	-25	-26.82	-70.79	-59.18	2.34	9.70	H
	7500	-49.50	-25	-24.50	-74.57	-58.87	2.43	11.80	H
	10008	-48.60	-25	-23.60	-77.44	-58.11	2.70	12.20	H
	12504	-36.42	-25	-11.42	-71.95	-46.02	2.81	12.40	H
	5004	-56.21	-25	-31.21	-73.83	-63.57	2.34	9.70	V
	7500	-51.04	-25	-26.04	-75.31	-60.41	2.43	11.80	V
	10008	-52.47	-25	-27.47	-78.73	-61.98	2.70	12.20	V
	12504	-44.67	-25	-19.67	-76.89	-54.27	2.81	12.40	V
Middle	5064	-52.78	-25	-27.78	-71.92	-60.11	2.37	9.70	H
	7596	-49.31	-25	-24.31	-74.04	-58.77	2.40	11.86	H
	10128	-48.76	-25	-23.76	-77.73	-58.32	2.70	12.25	H
	12660	-36.37	-25	-11.37	-72.65	-46.12	2.84	12.59	H
	5064	-58.41	-25	-33.41	-76.28	-65.74	2.37	9.70	V
	7596	-48.99	-25	-23.99	-72.92	-58.45	2.40	11.86	V
	10128	-53.26	-25	-28.26	-79.83	-62.82	2.70	12.25	V
	12660	-45.66	-25	-20.66	-78.41	-55.41	2.84	12.59	V
Highest	5136	-55.01	-25	-30.01	-74.22	-62.29	2.42	9.70	H
	7692	-48.65	-25	-23.65	-73.45	-58.2	2.37	11.92	H
	10260	-45.81	-25	-20.81	-74.87	-55.42	2.69	12.30	H
	12828	-37.24	-25	-12.24	-74.26	-47.15	2.89	12.79	H
	5136	-60.11	-25	-35.11	-78.26	-67.39	2.42	9.70	V
	7692	-49.59	-25	-24.59	-73.75	-59.14	2.37	11.92	V
	10260	-52.59	-25	-27.59	-79.56	-62.2	2.69	12.30	V
	12828	-45.57	-25	-20.57	-78.85	-55.48	2.89	12.79	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5000	-50.22	-25	-25.22	-69.22	-57.58	2.34	9.70	H
	7504	-46.80	-25	-21.80	-71.92	-56.17	2.43	11.80	H
	10004	-47.12	-25	-22.12	-76.13	-56.62	2.70	12.20	H
	12504	-31.68	-25	-6.68	-67.24	-41.28	2.81	12.40	H
	5000	-56.39	-25	-31.39	-73.94	-63.75	2.34	9.70	V
	7504	-48.02	-25	-23.02	-72.18	-57.39	2.43	11.80	V
	10020	-50.21	-25	-25.21	-76.49	-59.72	2.70	12.21	V
	12504	-43.51	-25	-18.51	-75.74	-53.11	2.81	12.40	V
Middle	5060	-52.41	-25	-27.41	-71.55	-59.74	2.37	9.70	H
	7592	-48.31	-25	-23.31	-73.07	-57.77	2.40	11.86	H
	10124	-46.58	-25	-21.58	-75.54	-56.13	2.70	12.25	H
	12652	-35.12	-25	-10.12	-71.28	-44.86	2.84	12.58	H
	5060	-58.61	-25	-33.61	-76.41	-65.94	2.37	9.70	V
	7592	-48.89	-25	-23.89	-72.84	-58.35	2.40	11.86	V
	10140	-50.01	-25	-25.01	-76.6	-59.57	2.70	12.26	V
	12652	-45.87	-25	-20.87	-78.55	-55.61	2.84	12.58	V
Highest	5124	-55.27	-25	-30.27	-74.53	-62.56	2.41	9.70	H
	7680	-49.41	-25	-24.41	-74.22	-58.95	2.37	11.91	H
	10248	-44.23	-25	-19.23	-73.29	-53.83	2.69	12.30	H
	12804	-38.48	-25	-13.48	-75.38	-48.36	2.88	12.76	H
	5124	-59.86	-25	-34.86	-77.98	-67.15	2.41	9.70	V
	7680	-49.01	-25	-24.01	-73.13	-58.55	2.37	11.91	V
	10248	-51.68	-25	-26.68	-78.62	-61.28	2.69	12.30	V
	12804	-46.82	-25	-21.82	-80	-56.7	2.88	12.76	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-54.55	-25	-29.55	-71.65	-61.91	2.34	9.70	H
	7500	-49.14	-25	-24.14	-74.36	-58.51	2.43	11.80	H
	10008	-48.11	-25	-23.11	-77.09	-57.62	2.70	12.20	H
	12504	-33.27	-25	-8.27	-68.85	-42.87	2.81	12.40	H
	5004	-57.85	-25	-32.85	-75.53	-65.21	2.34	9.70	V
	7500	-50.94	-25	-25.94	-75.15	-60.31	2.43	11.80	V
	10008	-51.82	-25	-26.82	-78.09	-61.33	2.70	12.20	V
	12504	-43.52	-25	-18.52	-75.76	-53.12	2.81	12.40	V
Middle	5052	-53.82	-25	-28.82	-72.89	-61.15	2.37	9.70	H
	7584	-50.47	-25	-25.47	-75.29	-59.92	2.40	11.85	H
	10116	-49.09	-25	-24.09	-78.04	-58.64	2.70	12.25	H
	12648	-37.17	-25	-12.17	-73.32	-46.91	2.84	12.58	H
	5052	-59.51	-25	-34.51	-77.24	-66.84	2.37	9.70	V
	7584	-51.02	-25	-26.02	-75.04	-60.47	2.40	11.85	V
	10116	-51.61	-25	-26.61	-78.13	-61.16	2.70	12.25	V
	12648	-46.47	-25	-21.47	-79.15	-56.21	2.84	12.58	V
Highest	5112	-52.89	-25	-27.89	-72.11	-60.19	2.40	9.70	H
	7668	-51.12	-25	-26.12	-75.92	-60.65	2.38	11.90	H
	10224	-44.02	-25	-19.02	-73.08	-53.61	2.69	12.29	H
	12780	-40.01	-25	-15.01	-76.76	-49.87	2.87	12.74	H
	5112	-58.51	-25	-33.51	-76.55	-65.81	2.40	9.70	V
	7668	-49.82	-25	-24.82	-73.93	-59.35	2.38	11.90	V
	10224	-51.36	-25	-26.36	-78.23	-60.95	2.69	12.29	V
	12780	-46.57	-25	-21.57	-79.69	-56.43	2.87	12.74	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-50.86	-25	-25.86	-69.88	-58.22	2.34	9.70	H
	7500	-47.94	-25	-22.94	-73.11	-57.31	2.43	11.80	H
	10008	-49.70	-25	-24.70	-78.57	-59.21	2.70	12.20	H
	12504	-33.61	-25	-8.61	-69.14	-43.21	2.81	12.40	H
	5004	-57.01	-25	-32.01	-74.56	-64.37	2.34	9.70	V
	7500	-49.71	-25	-24.71	-73.97	-59.08	2.43	11.80	V
	10008	-53.21	-25	-28.21	-79.46	-62.72	2.70	12.20	V
	12504	-43.51	-25	-18.51	-75.77	-53.11	2.81	12.40	V
Middle	5052	-55.38	-25	-30.38	-74.47	-62.71	2.37	9.70	H
	7584	-49.01	-25	-24.01	-73.87	-58.46	2.40	11.85	H
	10104	-47.62	-25	-22.62	-76.65	-57.17	2.70	12.24	H
	12636	-37.57	-25	-12.57	-73.7	-47.29	2.84	12.56	H
	5052	-59.64	-25	-34.64	-77.4	-66.97	2.37	9.70	V
	7584	-49.04	-25	-24.04	-73.12	-58.49	2.40	11.85	V
	10104	-53.27	-25	-28.27	-79.79	-62.82	2.70	12.24	V
	12636	-46.39	-25	-21.39	-79.04	-56.11	2.84	12.56	V
Highest	5100	-53.51	-25	-28.51	-72.72	-60.82	2.39	9.70	H
	7656	-47.70	-25	-22.70	-72.48	-57.21	2.38	11.89	H
	10200	-41.32	-25	-16.32	-70.36	-50.9	2.70	12.28	H
	12756	-40.25	-25	-15.25	-76.97	-50.09	2.87	12.71	H
	5100	-58.51	-25	-33.51	-76.5	-65.82	2.39	9.70	V
	7656	-46.62	-25	-21.62	-70.74	-56.13	2.38	11.89	V
	10200	-50.64	-25	-25.64	-77.43	-60.22	2.70	12.28	V
	12756	-46.68	-25	-21.68	-79.79	-56.52	2.87	12.71	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.