



FCC RF Test Report

APPLICANT : Sierra Wireless, Inc.
EQUIPMENT : Wireless Module
BRAND NAME : AirPrime
MODEL NAME : EM7690
FCC ID : N7NEM76
STANDARD : 47 CFR Part 2, 27(L), 27(N)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jun. 30, 2020 and completely tested on Jul. 18, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG021501-03C	Rev. 01	Initial issue of report	Sep. 16, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 4) (Band 66) (Band 71)	$< 43 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 40.86 dB at 6841.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Sierra Wireless, Inc.
13811 Wireless Way, Richmond, BC, Canada V6A 3A4

1.2 Manufacturer

Sierra Wireless, Inc.
13811 Wireless Way, Richmond, BC, Canada V6A 3A4

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Module
Brand Name	AirPrime
Model Name	EM7690
FCC ID	N7NEM76
EUT supports Radios application	WCDMA/LTE/GNSS
HW Version	1.0
SW Version	SWIX55C_00.16.04.00
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz
Bandwidth	LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Antenna Gain	LTE Band 4 : 4.00 dBi LTE Band 66 : 4.00 dBi LTE Band 71 : 2.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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



1.6 Re-use of Measured Data

1.7.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: EM7690, FCC ID: N7NEM76) is electrically identical to the reference device (Model: EM9190, FCC ID: N7NEM91) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.7.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix C (Sporton RF Report No. FG021501C for the reference device Model: EM9190, FCC ID: N7NEM91).

1.7.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
PCE (LTE)	N7NEM91	Part27(L), 27(N) (FG021501C)	All Conducted sections applicable

1.7.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: N7NEM91.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	N7NEM91 Worst Result	N7NEM76 Worst Result	Difference (dB)
Average Conducted Power (dBm)	LTE Band2	23.56	22.08	-1.48
	LTE Band 66	23.56	22.31	-1.25
	LTE Band 71	23.24	22.26	-0.98



1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 2, 27(L), 27(N)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

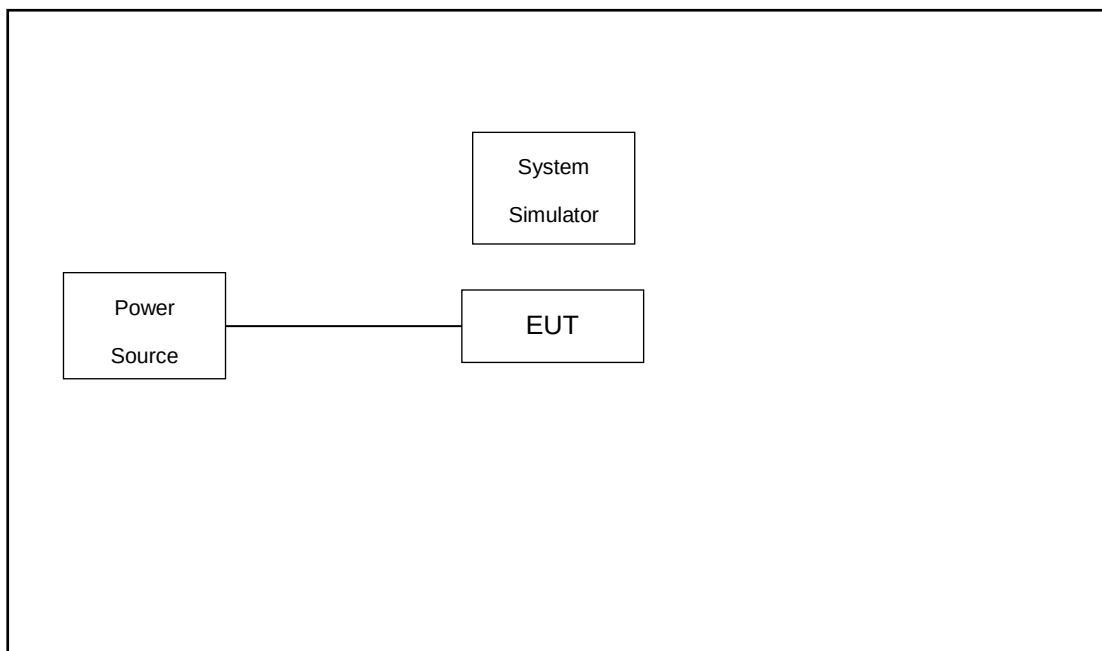
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Frequency Stability	4	Worst Case												v	v	v
	66	Worst Case												v	v	v
	71	Worst Case												v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. 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.															

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	66C_CA	Worst Case																v	v	v
Note	1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. 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.																			

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		5+5	5+10	5+15	10+10	10+5	15+5	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	66B_CA	Worst Case												v	v	v
Note	1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. 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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3



LTE Band 66C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	132171	132472	132572
		Frequency	1729.9	1760	1770
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	Channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	Channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720	1752.5	1765
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7
5 + 20	PCC	Channel	132005	132330	132455



20 + 20	SCC	Frequency	1713.3	1745.8	1758.3
		Channel	132122	132447	132572
	PCC	Frequency	1725	1757.5	1770
		Channel	132072	132323	132374
	SCC	Frequency	1720	1745.1	1750.2
		Channel	132270	132521	132572
		Frequency	1739.8	1764.9	1770

LTE Band 66B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	132491	132642
		Frequency	1726.8	1761.9	1777
10 + 10	PCC	Channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	Channel	132121	132472	132622
		Frequency	1724.9	1760	1775

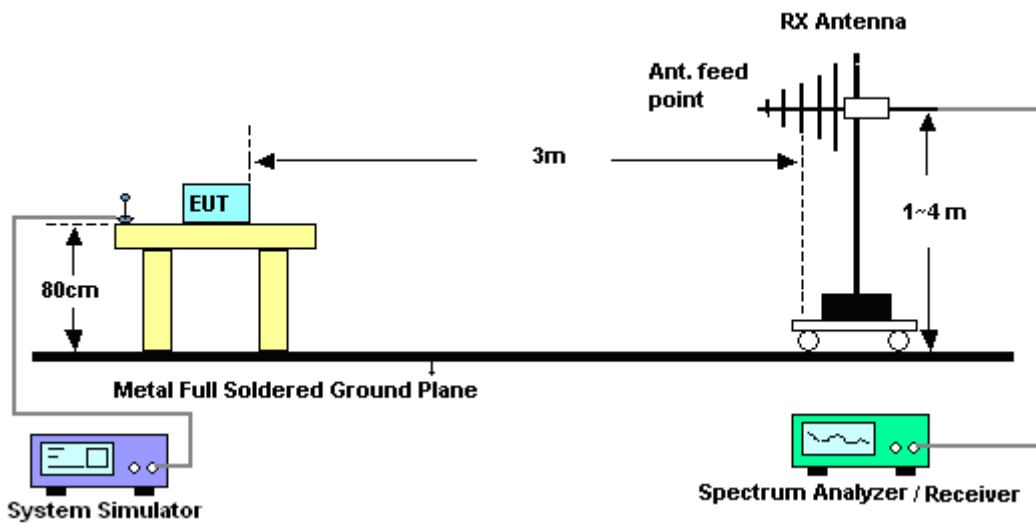
3 Radiated Test Items

3.1 Measuring Instruments

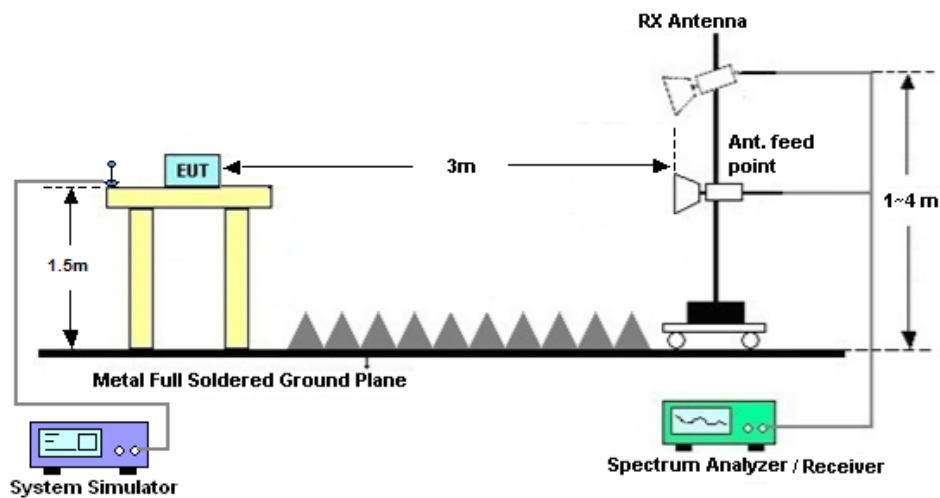
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 For radiated test from 30MHz to 1GHz



3.2.2 For radiated test above 1GHz



3.3 Test Result of Radiated Test

Please refer to Appendix A.

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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, 38, 41

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.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 22, 2019	Jul.13, 2020~ Jul. 18, 2020	Jul. 21, 2020	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 17, 2020	Jul.13, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May. 28, 2020	Jul.13, 2020~ Jul. 18, 2020	May. 27, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 19, 2019	Jul.13, 2020~ Jul. 18, 2020	Jul. 18, 2020	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Aug. 27, 2019	Jul.13, 2020~ Jul. 18, 2020	Aug. 26, 2020	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 17, 2020	Jul.13, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2020	Jul.13, 2020~ Jul. 18, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 18,2019	Jul.13, 2020~ Jul. 18, 2020	Oct. 17,2020	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 27, 2019	Jul.13, 2020~ Jul. 18, 2020	Dec. 26, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 22. 2019	Jul.13, 2020~ Jul. 18, 2020	Jul. 21. 2020	Radiation (03CH01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 4 / 1.4MHz / QPSK									
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	3420.32	-59.22	-13	-46.22	-79.37	-66.10	5.60	12.48	H
	5130.48	-58.49	-13	-45.49	-81.61	-64.17	7.10	12.78	H
	6840.64	-56.93	-13	-43.93	-81.93	-60.32	8.38	11.77	H
	3420.32	-57.99	-13	-44.99	-79.34	-64.87	5.60	12.48	V
	5130.48	-57.87	-13	-44.87	-81.73	-63.55	7.10	12.78	V
	6840.64	-55.08	-13	-42.08	-81.91	-58.47	8.38	11.77	V
Middle	3463.74	-58.36	-13	-45.36	-79.90	-65.21	5.65	12.50	H
	5195.61	-58.07	-13	-45.07	-81.67	-63.74	7.13	12.80	H
	6927.48	-56.19	-13	-43.19	-81.34	-59.59	8.40	11.80	H
	3463.74	-57.95	-13	-44.95	-79.29	-64.80	5.65	12.50	V
	5195.61	-57.52	-13	-44.52	-81.39	-63.19	7.13	12.80	V
	6927.48	-55.86	-13	-42.86	-81.93	-59.26	8.40	11.80	V
Highest	3507.52	-57.01	-13	-44.01	-78.94	-63.85	5.68	12.52	H
	5261.28	-57.81	-13	-44.81	-81.65	-63.48	7.15	12.82	H
	7015.04	-57.28	-13	-44.28	-82.61	-60.71	8.42	11.85	H
	3507.52	-56.12	-13	-43.12	-78.45	-62.96	5.68	12.52	V
	5261.28	-57.63	-13	-44.63	-81.35	-63.30	7.15	12.82	V
	7015.04	-56.62	-13	-43.62	-82.3	-60.05	8.42	11.85	V

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



LTE Band 4 / 3MHz / QPSK									
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	3420.48	-59.14	-13	-46.14	-79.29	-66.02	5.60	12.48	H
	5130.72	-58.46	-13	-45.46	-81.58	-64.14	7.10	12.78	H
	6840.96	-56.38	-13	-43.38	-81.38	-59.77	8.38	11.77	H
	3420.48	-58.08	-13	-45.08	-79.43	-64.96	5.60	12.48	V
	5130.72	-57.69	-13	-44.69	-81.55	-63.37	7.10	12.78	V
	6840.96	-54.78	-13	-41.78	-81.61	-58.17	8.38	11.77	V
Middle	3462.48	-58.54	-13	-45.54	-80.08	-65.39	5.65	12.50	H
	5193.72	-57.96	-13	-44.96	-81.56	-63.63	7.13	12.80	H
	6924.96	-56.24	-13	-43.24	-81.39	-59.64	8.40	11.80	H
	3462.48	-58.26	-13	-45.26	-79.6	-65.11	5.65	12.50	V
	5193.72	-57.52	-13	-44.52	-81.39	-63.19	7.13	12.80	V
	6924.96	-55.29	-13	-42.29	-81.36	-58.69	8.40	11.80	V
Highest	3504.48	-57.90	-13	-44.90	-79.03	-64.74	5.68	12.52	H
	5256.72	-57.89	-13	-44.89	-81.67	-63.56	7.15	12.82	H
	7008.96	-56.04	-13	-43.04	-81.30	-59.47	8.42	11.85	H
	3504.48	-57.44	-13	-44.44	-80.11	-64.28	5.68	12.52	V
	5256.72	-57.60	-13	-44.60	-81.35	-63.27	7.15	12.82	V
	7008.96	-56.09	-13	-43.09	-81.53	-59.52	8.42	11.85	V

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



LTE Band 4 / 5MHz / QPSK									
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	3420.68	-59.10	-13	-46.10	-79.25	-65.98	5.60	12.48	H
	5131.02	-58.04	-13	-45.04	-81.16	-63.72	7.10	12.78	H
	6841.36	-56.25	-13	-43.25	-81.25	-59.64	8.38	11.77	H
	3420.68	-58.23	-13	-45.23	-79.58	-65.11	5.60	12.48	V
	5131.02	-57.09	-13	-44.09	-80.95	-62.77	7.10	12.78	V
	6841.36	-54.74	-13	-41.74	-81.57	-58.13	8.38	11.77	V
Middle	3460.68	-58.61	-13	-45.61	-80.15	-65.46	5.65	12.50	H
	5191.02	-57.48	-13	-44.48	-81.08	-63.15	7.13	12.80	H
	6921.36	-56.23	-13	-43.23	-81.34	-59.63	8.40	11.80	H
	3460.68	-58.08	-13	-45.08	-79.42	-64.93	5.65	12.50	V
	5191.02	-57.71	-13	-44.71	-81.58	-63.38	7.13	12.80	V
	6921.36	-55.25	-13	-42.25	-81.46	-58.65	8.40	11.80	V
Highest	3500.68	-57.91	-13	-44.91	-79.04	-64.75	5.68	12.52	H
	5251.02	-57.78	-13	-44.78	-81.56	-63.45	7.15	12.82	H
	7001.36	-56.73	-13	-43.73	-82.00	-60.16	8.42	11.85	H
	3500.68	-57.62	-13	-44.62	-80.29	-64.46	5.68	12.52	V
	5251.02	-57.72	-13	-44.72	-81.47	-63.39	7.15	12.82	V
	7001.36	-56.46	-13	-43.46	-81.91	-59.89	8.42	11.85	V

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



LTE Band 4 / 10MHz / QPSK									
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	3421.18	-59.20	-13	-46.20	-79.35	-66.08	5.60	12.48	H
	5131.77	-58.12	-13	-45.12	-81.24	-63.80	7.10	12.78	H
	6842.36	-56.00	-13	-43.00	-81.00	-59.39	8.38	11.77	H
	3421.18	-58.17	-13	-45.17	-79.52	-65.05	5.60	12.48	V
	5131.77	-57.52	-13	-44.52	-81.38	-63.20	7.10	12.78	V
	6842.36	-55.12	-13	-42.12	-81.95	-58.51	8.38	11.77	V
Middle	3456.18	-58.34	-13	-45.34	-79.08	-65.19	5.65	12.50	H
	5184.27	-57.58	-13	-44.58	-81.06	-63.25	7.13	12.80	H
	6912.36	-55.60	-13	-42.60	-80.71	-59.00	8.40	11.80	H
	3456.18	-58.48	-13	-45.48	-80.16	-65.33	5.65	12.50	V
	5184.27	-57.30	-13	-44.30	-81.17	-62.97	7.13	12.80	V
	6912.36	-54.99	-13	-41.99	-81.2	-58.39	8.40	11.80	V
Highest	3491.18	-58.51	-13	-45.51	-79.64	-65.35	5.68	12.52	H
	5236.77	-57.43	-13	-44.43	-81.15	-63.10	7.15	12.82	H
	6982.36	-56.72	-13	-43.72	-81.95	-60.15	8.42	11.85	H
	3491.18	-57.48	-13	-44.48	-80.15	-64.32	5.68	12.52	V
	5236.77	-57.42	-13	-44.42	-81.21	-63.09	7.15	12.82	V
	6982.36	-56.28	-13	-43.28	-81.88	-59.71	8.42	11.85	V

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



LTE Band 4 / 15MHz / QPSK									
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	3421.68	-58.78	-13	-45.78	-78.93	-65.66	5.60	12.48	H
	5132.52	-57.85	-13	-44.85	-80.97	-63.53	7.10	12.78	H
	6843.36	-55.58	-13	-42.58	-80.58	-58.97	8.38	11.77	H
	3421.68	-57.99	-13	-44.99	-79.34	-64.87	5.60	12.48	V
	5132.52	-57.34	-13	-44.34	-81.2	-63.02	7.10	12.78	V
	6843.36	-54.07	-13	-41.07	-80.9	-57.46	8.38	11.77	V
Middle	3451.68	-58.31	-13	-45.31	-79.05	-65.16	5.65	12.50	H
	5177.52	-57.35	-13	-44.35	-80.83	-63.02	7.13	12.80	H
	6903.36	-56.07	-13	-43.07	-81.15	-59.47	8.40	11.80	H
	3451.68	-57.77	-13	-44.77	-79.45	-64.62	5.65	12.50	V
	5177.52	-56.98	-13	-43.98	-80.85	-62.65	7.13	12.80	V
	6903.36	-55.09	-13	-42.09	-81.45	-58.49	8.40	11.80	V
Highest	3481.68	-58.34	-13	-45.34	-79.67	-65.18	5.68	12.52	H
	5222.52	-57.59	-13	-44.59	-81.25	-63.26	7.15	12.82	H
	6963.36	-56.29	-13	-43.29	-81.49	-59.72	8.42	11.85	H
	3481.68	-57.32	-13	-44.32	-79.32	-64.16	5.68	12.52	V
	5222.52	-57.63	-13	-44.63	-81.46	-63.30	7.15	12.82	V
	6963.36	-56.00	-13	-43.00	-81.75	-59.43	8.42	11.85	V

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



LTE Band 4 / 20MHz / QPSK									
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	3422.18	-59.26	-13	-46.26	-79.41	-66.14	5.60	12.48	H
	5133.27	-57.87	-13	-44.87	-80.99	-63.55	7.10	12.78	H
	6844.36	-56.91	-13	-43.91	-81.91	-60.30	8.38	11.77	H
	3422.18	-58.03	-13	-45.03	-79.38	-64.91	5.60	12.48	V
	5133.27	-57.59	-13	-44.59	-81.45	-63.27	7.10	12.78	V
	6844.36	-55.33	-13	-42.33	-82.16	-58.72	8.38	11.77	V
Middle	3447.18	-58.96	-13	-45.96	-79.70	-65.81	5.65	12.50	H
	5170.77	-58.11	-13	-45.11	-81.47	-63.78	7.13	12.80	H
	6894.36	-56.47	-13	-43.47	-81.56	-59.87	8.40	11.80	H
	3447.18	-58.32	-13	-45.32	-80	-65.17	5.65	12.50	V
	5170.77	-57.69	-13	-44.69	-81.55	-63.36	7.13	12.80	V
	6894.36	-55.00	-13	-42.00	-81.37	-58.40	8.40	11.80	V
Highest	3472.18	-58.36	-13	-45.36	-79.90	-65.20	5.68	12.52	H
	5208.27	-57.98	-13	-44.98	-81.64	-63.65	7.15	12.82	H
	6944.36	-56.47	-13	-43.47	-81.65	-59.90	8.42	11.85	H
	3472.18	-58.01	-13	-45.01	-79.35	-64.85	5.68	12.52	V
	5208.27	-57.65	-13	-44.65	-81.48	-63.32	7.15	12.82	V
	6944.36	-55.96	-13	-42.96	-81.87	-59.39	8.42	11.85	V

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



LTE Band 66 / 1.4MHz / QPSK									
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	3420.14	-59.55	-13	-46.55	-79.70	-66.43	5.60	12.48	H
	5130.21	-58.29	-13	-45.29	-81.41	-63.97	7.10	12.78	H
	6840.28	-56.35	-13	-43.35	-81.35	-59.74	8.38	11.77	H
	3420.14	-58.30	-13	-45.30	-79.65	-65.18	5.60	12.48	V
	5130.21	-57.55	-13	-44.55	-81.41	-63.23	7.10	12.78	V
	6840.28	-54.34	-13	-41.34	-81.17	-57.73	8.38	11.77	V
Middle	3488.74	-58.87	-13	-45.87	-80.20	-65.72	5.65	12.50	H
	5233.11	-57.51	-13	-44.51	-81.23	-63.18	7.13	12.80	H
	6977.48	-56.02	-13	-43.02	-81.26	-59.42	8.40	11.80	H
	3488.74	-58.10	-13	-45.10	-80.1	-64.95	5.65	12.50	V
	5233.11	-57.69	-13	-44.69	-81.48	-63.36	7.13	12.80	V
	6977.48	-55.71	-13	-42.71	-81.32	-59.11	8.40	11.80	V
Highest	3557.34	-57.60	-13	-44.60	-80.12	-64.44	5.68	12.52	H
	5336.01	-57.30	-13	-44.30	-81.38	-62.97	7.15	12.82	H
	7114.68	-55.76	-13	-42.76	-81.49	-59.19	8.42	11.85	H
	3557.34	-56.19	-13	-43.19	-79.85	-63.03	5.68	12.52	V
	5336.01	-57.80	-13	-44.80	-81.4	-63.47	7.15	12.82	V
	7114.68	-54.44	-13	-41.44	-81.49	-57.87	8.42	11.85	V

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



LTE Band 66 / 3MHz / QPSK									
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	3420.3	-59.15	-13	-46.15	-79.30	-66.03	5.60	12.48	H
	5130.45	-58.19	-13	-45.19	-81.31	-63.87	7.10	12.78	H
	6840.6	-55.95	-13	-42.95	-80.95	-59.34	8.38	11.77	H
	3420.3	-58.38	-13	-45.38	-79.73	-65.26	5.60	12.48	V
	5130.45	-57.47	-13	-44.47	-81.33	-63.15	7.10	12.78	V
	6840.6	-54.50	-13	-41.50	-81.33	-57.89	8.38	11.77	V
Middle	3487.3	-58.59	-13	-45.59	-79.92	-65.44	5.65	12.50	H
	5230.95	-57.33	-13	-44.33	-81.05	-63.00	7.13	12.80	H
	6974.6	-56.24	-13	-43.24	-81.44	-59.64	8.40	11.80	H
	3487.3	-57.44	-13	-44.44	-79.44	-64.29	5.65	12.50	V
	5230.95	-57.50	-13	-44.50	-81.29	-63.17	7.13	12.80	V
	6974.6	-55.50	-13	-42.50	-81.25	-58.90	8.40	11.80	V
Highest	3554.3	-56.87	-13	-43.87	-79.39	-63.71	5.68	12.52	H
	5331.45	-57.24	-13	-44.24	-81.32	-62.91	7.15	12.82	H
	7108.6	-55.45	-13	-42.45	-81.11	-58.88	8.42	11.85	H
	3554.3	-56.39	-13	-43.39	-80.05	-63.23	5.68	12.52	V
	5331.45	-57.88	-13	-44.88	-81.48	-63.55	7.15	12.82	V
	7108.6	-54.30	-13	-41.30	-81.12	-57.73	8.42	11.85	V

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



LTE Band 66 / 5MHz / QPSK									
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	3420.5	-58.62	-13	-45.62	-78.77	-65.50	5.60	12.48	H
	5130.75	-57.95	-13	-44.95	-81.07	-63.63	7.10	12.78	H
	6841	-55.67	-13	-42.67	-80.67	-59.06	8.38	11.77	H
	3420.5	-57.69	-13	-44.69	-79.04	-64.57	5.60	12.48	V
	5130.75	-57.06	-13	-44.06	-80.92	-62.74	7.10	12.78	V
	6841	-53.86	-13	-40.86	-80.69	-57.25	8.38	11.77	V
Middle	3485.5	-58.08	-13	-45.08	-79.41	-64.93	5.65	12.50	H
	5228.25	-57.11	-13	-44.11	-80.83	-62.78	7.13	12.80	H
	6971	-55.51	-13	-42.51	-80.71	-58.91	8.40	11.80	H
	3485.5	-57.30	-13	-44.30	-79.3	-64.15	5.65	12.50	V
	5228.25	-56.48	-13	-43.48	-80.27	-62.15	7.13	12.80	V
	6971	-55.20	-13	-42.20	-80.95	-58.60	8.40	11.80	V
Highest	3550.5	-56.98	-13	-43.98	-79.50	-63.82	5.68	12.52	H
	5325.75	-56.81	-13	-43.81	-80.83	-62.48	7.15	12.82	H
	7101	-55.56	-13	-42.56	-81.23	-58.99	8.42	11.85	H
	3550.5	-56.06	-13	-43.06	-79.72	-62.90	5.68	12.52	V
	5325.75	-57.69	-13	-44.69	-81.32	-63.36	7.15	12.82	V
	7101	-54.05	-13	-41.05	-80.88	-57.48	8.42	11.85	V

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



LTE Band 66 / 10MHz / QPSK									
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	3421	-59.48	-13	-46.48	-79.63	-66.36	5.60	12.48	H
	5131.5	-58.10	-13	-45.10	-81.22	-63.78	7.10	12.78	H
	6842	-56.30	-13	-43.30	-81.30	-59.69	8.38	11.77	H
	3421	-58.23	-13	-45.23	-79.58	-65.11	5.60	12.48	V
	5131.5	-56.97	-13	-43.97	-80.83	-62.65	7.10	12.78	V
	6842	-54.64	-13	-41.64	-81.47	-58.03	8.38	11.77	V
Middle	3481	-58.63	-13	-45.63	-79.96	-65.48	5.65	12.50	H
	5221.5	-57.34	-13	-44.34	-81.00	-63.01	7.13	12.80	H
	6962	-56.15	-13	-43.15	-81.35	-59.55	8.40	11.80	H
	3481	-57.63	-13	-44.63	-79.63	-64.48	5.65	12.50	V
	5221.5	-57.56	-13	-44.56	-81.39	-63.23	7.13	12.80	V
	6962	-55.64	-13	-42.64	-81.39	-59.04	8.40	11.80	V
Highest	3541	-57.19	-13	-44.19	-78.91	-64.03	5.68	12.52	H
	5311.5	-57.52	-13	-44.52	-81.54	-63.19	7.15	12.82	H
	7082	-55.91	-13	-42.91	-81.51	-59.34	8.42	11.85	H
	3541	-56.05	-13	-43.05	-79.04	-62.89	5.68	12.52	V
	5311.5	-57.85	-13	-44.85	-81.48	-63.52	7.15	12.82	V
	7082	-54.43	-13	-41.43	-81.02	-57.86	8.42	11.85	V

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



LTE Band 66 / 15MHz / QPSK									
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	3421.5	-59.01	-13	-46.01	-79.16	-65.89	5.60	12.48	H
	5132.25	-57.72	-13	-44.72	-80.84	-63.40	7.10	12.78	H
	6843	-56.17	-13	-43.17	-81.17	-59.56	8.38	11.77	H
	3421.5	-57.94	-13	-44.94	-79.29	-64.82	5.60	12.48	V
	5132.25	-57.41	-13	-44.41	-81.27	-63.09	7.10	12.78	V
	6843	-54.47	-13	-41.47	-81.3	-57.86	8.38	11.77	V
Middle	3476.5	-58.41	-13	-45.41	-79.74	-65.26	5.65	12.50	H
	5214.75	-57.67	-13	-44.67	-81.33	-63.34	7.13	12.80	H
	6953	-55.73	-13	-42.73	-80.91	-59.13	8.40	11.80	H
	3476.5	-57.59	-13	-44.59	-79.59	-64.44	5.65	12.50	V
	5214.75	-57.19	-13	-44.19	-81.02	-62.86	7.13	12.80	V
	6953	-55.49	-13	-42.49	-81.4	-58.89	8.40	11.80	V
Highest	3531.5	-56.93	-13	-43.93	-78.65	-63.77	5.68	12.52	H
	5297.25	-56.73	-13	-43.73	-80.69	-62.40	7.15	12.82	H
	7063	-55.21	-13	-42.21	-80.74	-58.64	8.42	11.85	H
	3531.5	-55.76	-13	-42.76	-78.75	-62.60	5.68	12.52	V
	5297.25	-57.12	-13	-44.12	-80.78	-62.79	7.15	12.82	V
	7063	-54.30	-13	-41.30	-80.67	-57.73	8.42	11.85	V

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



LTE Band 66 / 20MHz / QPSK									
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	3422	-59.43	-13	-46.43	-79.58	-66.31	5.60	12.48	H
	5133	-58.23	-13	-45.23	-81.35	-63.91	7.10	12.78	H
	6844	-56.23	-13	-43.23	-81.23	-59.62	8.38	11.77	H
	3422	-58.51	-13	-45.51	-79.86	-65.39	5.60	12.48	V
	5133	-57.69	-13	-44.69	-81.55	-63.37	7.10	12.78	V
	6844	-54.32	-13	-41.32	-81.15	-57.71	8.38	11.77	V
Middle	3472	-58.75	-13	-45.75	-80.29	-65.60	5.65	12.50	H
	5208	-57.80	-13	-44.80	-81.46	-63.47	7.13	12.80	H
	6944	-56.33	-13	-43.33	-81.51	-59.73	8.40	11.80	H
	3472	-58.11	-13	-45.11	-79.45	-64.96	5.65	12.50	V
	5208	-57.45	-13	-44.45	-81.28	-63.12	7.13	12.80	V
	6944	-55.12	-13	-42.12	-81.03	-58.52	8.40	11.80	V
Highest	3522	-58.42	-13	-45.42	-80.35	-65.26	5.68	12.52	H
	5283	-57.88	-13	-44.88	-81.78	-63.55	7.15	12.82	H
	7044	-55.90	-13	-42.90	-81.37	-59.33	8.42	11.85	H
	3522	-57.12	-13	-44.12	-79.45	-63.96	5.68	12.52	V
	5283	-58.19	-13	-45.19	-81.88	-63.86	7.15	12.82	V
	7044	-55.16	-13	-42.16	-81.3	-58.59	8.42	11.85	V

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



LTE Band 71 / 5MHz / QPSK									
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	1326.5	-66.40	-13	-53.40	-76.19	-69.63	3.98	9.36	H
	1989.75	-61.90	-13	-48.90	-78.28	-65.45	4.85	10.55	H
	2653	-60.04	-13	-47.04	-78.87	-64.97	5.50	12.58	H
	1326.5	-66.05	-13	-53.05	-76.77	-69.28	3.98	9.36	V
	1989.75	-62.47	-13	-49.47	-78.80	-66.02	4.85	10.55	V
	2653	-59.72	-13	-46.72	-78.93	-64.65	5.50	12.58	V
Middle	1356.5	-65.86	-13	-52.86	-75.69	-69.11	4.00	9.40	H
	2034.75	-61.61	-13	-48.61	-78.42	-65.18	4.88	10.60	H
	2713	-59.38	-13	-46.38	-78.08	-64.31	5.52	12.60	H
	1356.5	-65.36	-13	-52.36	-76.17	-68.61	4.00	9.40	V
	2034.75	-61.76	-13	-48.76	-78.44	-65.33	4.88	10.60	V
	2713	-58.92	-13	-45.92	-78.17	-63.85	5.52	12.60	V
Highest	1386.5	-67.00	-13	-54.00	-76.87	-70.17	4.10	9.42	H
	2079.75	-62.24	-13	-49.24	-79.32	-65.82	4.90	10.63	H
	2773	-59.48	-13	-46.48	-78.08	-64.40	5.55	12.62	H
	1386.5	-66.09	-13	-53.09	-76.99	-69.26	4.10	9.42	V
	2079.75	-62.19	-13	-49.19	-79.08	-65.77	4.90	10.63	V
	2773	-58.76	-13	-45.76	-78.04	-63.68	5.55	12.62	V

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



LTE Band 71 / 10MHz / QPSK									
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	1327	-66.65	-13	-53.65	-76.44	-69.88	3.98	9.36	H
	1990.5	-61.30	-13	-48.30	-77.68	-64.85	4.85	10.55	H
	2654	-60.01	-13	-47.01	-78.84	-64.94	5.50	12.58	H
	1327	-65.77	-13	-52.77	-76.49	-69.00	3.98	9.36	V
	1990.5	-62.54	-13	-49.54	-78.87	-66.09	4.85	10.55	V
	2654	-59.91	-13	-46.91	-79.12	-64.84	5.50	12.58	V
Middle	1352	-66.27	-13	-53.27	-76.10	-69.52	4.00	9.40	H
	2028	-61.50	-13	-48.50	-78.22	-65.07	4.88	10.60	H
	2704	-59.17	-13	-46.17	-77.91	-64.10	5.52	12.60	H
	1352	-65.14	-13	-52.14	-75.95	-68.39	4.00	9.40	V
	2028	-61.84	-13	-48.84	-78.45	-65.41	4.88	10.60	V
	2704	-58.97	-13	-45.97	-78.21	-63.90	5.52	12.60	V
Highest	1377	-66.35	-13	-53.35	-76.23	-69.52	4.10	9.42	H
	2056	-61.67	-13	-48.67	-78.57	-65.25	4.90	10.63	H
	2754	-59.51	-13	-46.51	-78.15	-64.43	5.55	12.62	H
	1377	-65.16	-13	-52.16	-76.05	-68.33	4.10	9.42	V
	2056	-61.66	-13	-48.66	-78.41	-65.24	4.90	10.63	V
	2754	-59.18	-13	-46.18	-78.45	-64.10	5.55	12.62	V

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



LTE Band 71 / 15MHz / QPSK									
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	1327.5	-66.11	-13	-53.11	-75.90	-69.34	3.98	9.36	H
	1991.25	-62.15	-13	-49.15	-78.53	-65.70	4.85	10.55	H
	2655	-59.84	-13	-46.84	-78.67	-64.77	5.50	12.58	H
	1327.5	-65.60	-13	-52.60	-76.32	-68.83	3.98	9.36	V
	1991.25	-62.76	-13	-49.76	-79.09	-66.31	4.85	10.55	V
	2655	-59.77	-13	-46.77	-78.98	-64.70	5.50	12.58	V
Middle	1347.5	-66.77	-13	-53.77	-76.61	-70.02	4.00	9.40	H
	2021.25	-61.67	-13	-48.67	-78.39	-65.24	4.88	10.60	H
	2695	-59.36	-13	-46.36	-78.10	-64.29	5.52	12.60	H
	1347.5	-64.86	-13	-51.86	-75.65	-68.11	4.00	9.40	V
	2021.25	-61.54	-13	-48.54	-78.15	-65.11	4.88	10.60	V
	2695	-59.02	-13	-46.02	-78.26	-63.95	5.52	12.60	V
Highest	1367.5	-66.68	-13	-53.68	-76.50	-69.85	4.10	9.42	H
	2051.25	-61.89	-13	-48.89	-78.79	-65.47	4.90	10.63	H
	2735	-59.95	-13	-46.95	-78.62	-64.87	5.55	12.62	H
	1367.5	-65.91	-13	-52.91	-76.74	-69.08	4.10	9.42	V
	2051.25	-62.07	-13	-49.07	-78.82	-65.65	4.90	10.63	V
	2735	-59.11	-13	-46.11	-78.37	-64.03	5.55	12.62	V

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



LTE Band 71 / 20MHz / QPSK									
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	1328	-66.37	-13	-53.37	-76.16	-69.60	3.98	9.36	H
	1992	-61.44	-13	-48.44	-77.82	-64.99	4.85	10.55	H
	2656	-59.67	-13	-46.67	-78.50	-64.60	5.50	12.58	H
	1328	-65.79	-13	-52.79	-76.51	-69.02	3.98	9.36	V
	1992	-61.79	-13	-48.79	-78.12	-65.34	4.85	10.55	V
	2656	-59.38	-13	-46.38	-78.59	-64.31	5.50	12.58	V
Middle	1343	-66.65	-13	-53.65	-76.43	-69.90	4.00	9.40	H
	2014.5	-62.09	-13	-49.09	-78.81	-65.66	4.88	10.60	H
	2686	-59.66	-13	-46.66	-78.43	-64.59	5.52	12.60	H
	1343	-64.69	-13	-51.69	-75.42	-67.94	4.00	9.40	V
	2014.5	-62.10	-13	-49.10	-78.71	-65.67	4.88	10.60	V
	2686	-59.28	-13	-46.28	-78.51	-64.21	5.52	12.60	V
Highest	1358	-66.80	-13	-53.80	-76.63	-69.97	4.10	9.42	H
	2037	-61.52	-13	-48.52	-78.33	-65.10	4.90	10.63	H
	2716	-58.99	-13	-45.99	-77.69	-63.91	5.55	12.62	H
	1358	-64.43	-13	-51.43	-75.24	-67.60	4.10	9.42	V
	2037	-62.15	-13	-49.15	-78.83	-65.73	4.90	10.63	V
	2716	-58.24	-13	-45.24	-77.49	-63.16	5.55	12.62	V

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



LTE Band 66C_CA / 20MHz+20MHz / QPSK									
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	3459.8	-58.43	-13	-45.43	-79.97	-65.31	5.60	12.48	H
	5189.7	-57.63	-13	-44.63	-81.11	-63.31	7.10	12.78	H
	6919.6	-55.66	-13	-42.66	-80.77	-59.05	8.38	11.77	H
	3459.8	-58.14	-13	-45.14	-79.48	-65.02	5.60	12.48	V
	5189.7	-57.26	-13	-44.26	-81.13	-62.94	7.10	12.78	V
	6919.6	-55.35	-13	-42.35	-81.56	-58.74	8.38	11.77	V
Middle	3510	-58.08	-13	-45.08	-80.01	-64.93	5.65	12.50	H
	5265	-57.17	-13	-44.17	-81.01	-62.84	7.13	12.80	H
	7020	-55.78	-13	-42.78	-81.11	-59.18	8.40	11.80	H
	3510	-56.55	-13	-43.55	-78.88	-63.40	5.65	12.50	V
	5265	-57.55	-13	-44.55	-81.27	-63.22	7.13	12.80	V
	7020	-55.39	-13	-42.39	-81.07	-58.79	8.40	11.80	V
Highest	3520.2	-57.96	-13	-44.96	-79.89	-64.80	5.68	12.52	H
	5280.3	-57.66	-13	-44.66	-81.56	-63.33	7.15	12.82	H
	7040.4	-55.68	-13	-42.68	-81.07	-59.11	8.42	11.85	H
	3520.2	-57.45	-13	-44.45	-79.78	-64.29	5.68	12.52	V
	5280.3	-57.99	-13	-44.99	-81.68	-63.66	7.15	12.82	V
	7040.4	-55.37	-13	-42.37	-81.27	-58.80	8.42	11.85	V

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



LTE Band 66B_CA / 10MHz+10MHz / QPSK									
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	3439.9	-57.95	-13	-44.95	-78.69	-64.83	5.60	12.48	H
	5159.85	-57.72	-13	-44.72	-81.08	-63.40	7.10	12.78	H
	6879.8	-55.82	-13	-42.82	-80.87	-59.21	8.38	11.77	H
	3439.9	-57.29	-13	-44.29	-78.97	-64.17	5.60	12.48	V
	5159.85	-56.83	-13	-43.83	-80.69	-62.51	7.10	12.78	V
	6879.8	-54.90	-13	-41.90	-81.41	-58.29	8.38	11.77	V
Middle	3510.1	-57.31	-13	-44.31	-79.24	-64.16	5.65	12.50	H
	5265.15	-57.30	-13	-44.30	-81.14	-62.97	7.13	12.80	H
	7020.2	-55.61	-13	-42.61	-80.94	-59.01	8.40	11.80	H
	3510.1	-56.89	-13	-43.89	-79.22	-63.74	5.65	12.50	V
	5265.15	-57.18	-13	-44.18	-80.9	-62.85	7.13	12.80	V
	7020.2	-55.20	-13	-42.20	-80.88	-58.60	8.40	11.80	V
Highest	3540.1	-57.29	-13	-44.29	-79.01	-64.13	5.68	12.52	H
	5310.15	-57.07	-13	-44.07	-81.09	-62.74	7.15	12.82	H
	7080.2	-55.40	-13	-42.40	-81.01	-58.83	8.42	11.85	H
	3540.1	-56.29	-13	-43.29	-79.28	-63.13	5.68	12.52	V
	5310.15	-57.56	-13	-44.56	-81.19	-63.23	7.15	12.82	V
	7080.2	-54.60	-13	-41.60	-81.2	-58.03	8.42	11.85	V

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



Appendix C. Reference Report

Please refer to Sporton report number FG021501C which is issued separately.