FCC TEST REPORT and IC TEST REPORT

For

LE920-NA

Model: LE920-NA

Trade Name: Telit

Issued to

Telit Communications S.p.A.
Via Stazione di Prosecco 5/B
34010 Sgonico, Trieste - Italy

Issued by

Compliance Certification Services Inc.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
http://www.ccsrf.com
service@ccsrf.com
Issued Date: June 9, 2015

Testing Laboratory
1309

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		June 9, 2015		Initial Issue	ALL	Doris Chu

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1. TEST RESULT CERTIFICATION

Applicant: Telit Communications S.p.A.
Via Stazione di Prosecco 5/B
34010 Sgonico, Trieste - Italy

Manufacturer: Telit Communications S.p.A.
Via Stazione di Prosecco 5/B
34010 Sgonico, Trieste - Italy

Equipment Under Test: LE920-NA

Trade Name: Telit

Model: LE920-NA

Date of Test: June 2 ~ 6, 2015

FCC PART 27, SUBPART C, L, FCC PART 2	
OPERATING BAND: 1710~1755 MHZ	
Standard	**TEST TYPE AND LIMIT**
2.1046 27.50(d)(4) & RSS-139 Issue 2 February 2009 6.4	Maximum Peak Output Power Limit: max. 1 watts e.i.r.p peak power
2.1055 27.54 & RSS-139 Issue 2 February 2009 6.3	Frequency Stability
2.1049 27.53(h) & RSS-139 Issue 2 February 2009 2.3	Occupied Bandwidth
27.50(d)(5) & RSS-139 Issue 2 February 2009 6.4	Peak to average ratio
27.53(h)	Band Edge Measurements
2.1051 27.53(h) & RSS-139 Issue 2 February 2009 6.5	Conducted Spurious Emissions
2.1053 27.53(h) & RSS-139 Issue 2 February 2009 6.5 6.6	Radiated Spurious Emissions

Note: 1. The test result judgment is decided by the limit of test standard
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by *Reviewed by*

Miller Lee
Manager
Compliance Certification Services Inc.

Angel Cheng
Section Manager
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	LE920-NA	
Model Number	LE920-NA	
Model Discrepancy	N/A	
Trade	Telit	
Received Date	May 28, 2015	
Power Supply	DC 3.8V powered from Host device.	
Modulation Technology	LTE Band 4	QPSK, 16QAM
Frequency Range	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~1750.0MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~1745MHz
Maximum EIRP Power	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 18.59dBm 16QAM: 19.27dBm
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 16.86dBm 16QAM: 17.67dBm
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 15.79dBm 16QAM: 15.94dBm
Category	9	
Antenna Specification	1/4l Antenna / Gain: 2.14 dBi	

Note: *1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.*

3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST TYPE

The EUT (model: LE920-NA) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

LTE Band 4: 1710MHz ~ 1755MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low channel (L)	19975	1712.5	20000	1715.0	20050	1720.00
Middle channel (M)	20175	1732.5	20175	1732.5	20175	1732.50
High channel (H)	20375	1752.5	20350	1750.0	20300	1745.00

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4407B	MY44212686	03/17/2016
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1042473	04/13/2016
Bilog Antenna	Sunol Sciences	JB3	A030205	08/18/2015
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40	101073	07/09/2015
Horn Antenna	EMCO	3117	00055165	01/26/2016
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW 500	116875	04/13/2016

4.3MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark*: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.*

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

☐ No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, horn and/or Loop. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method –47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	TAF Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A						

Remark:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

7. TEST PROCEDURE AND RESULT

7.1 OUTPUT POWER MEASUREMENT

LIMITS

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz

band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 698–746 MHz band are limited

to 3 watts ERP

Operating in the Frequency
Bands 698-756 MHz shall not exceed 5 watts for portable equipment or for indoor fixed subscriber equipment

TEST PROCEDURES

EIRP / ERP MEASUREMENT:

1. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE.
2. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
3. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn
4. E.R.P = E.I.R.P- 2.15 dB

CONDUCTED POWER MEASUREMENT:

1. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
2. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

TEST RESULTS

LTE Band 4

Channel Bandwidth: 5MHz

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	23.60	0.22909
1732.50	20175	22.90	0.19498
1752.50	20375	22.83	0.19187

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	23.10	0.20417
1732.50	20175	22.92	0.19588
1752.50	20375	22.95	0.19724

Conducted Output Power (QPSK 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	22.47	0.17660
1732.50	20175	21.95	0.15668
1752.50	20375	21.82	0.15205

Conducted Output Power (QPSK 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	22.39	0.17338
1732.50	20175	22.19	0.16558
1752.50	20375	21.93	0.15596

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

Channel Bandwidth: 5MHz

Conducted Output Power (16QAM 1 RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	22.63	0.18323
1732.50	20175	21.81	0.15171
1752.50	20375	22.00	0.15849

Conducted Output Power (16QAM 1 RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	22.65	0.18408
1732.50	20175	21.83	0.15241
1752.50	20375	22.01	0.15885

Conducted Output Power (16QAM 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	21.92	0.15560
1732.50	20175	21.87	0.15382
1752.50	20375	21.79	0.15101

Conducted Output Power (16QAM 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1712.50	19975	21.27	0.13397
1732.50	20175	21.18	0.13122
1752.50	20375	21.16	0.13062

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

LTE Band 4

Channel Bandwidth: 10MHz

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	23.24	0.21086
1732.50	20175	23.30	0.21380
1750.00	20350	22.80	0.19055

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	22.80	0.19055
1732.50	20175	22.92	0.19588
1750.00	20350	22.86	0.19320

Conducted Output Power (QPSK 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	22.23	0.16711
1732.50	20175	22.28	0.16904
1750.00	20350	22.05	0.16032

Conducted Output Power (QPSK 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	22.19	0.16558
1732.50	20175	22.35	0.17179
1750.00	20350	22.27	0.16866

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

Channel Bandwidth: 10MHz

Conducted Output Power (16QAM RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	21.83	0.15241
1732.50	20175	22.51	0.17824
1750.00	20350	21.82	0.15205

Conducted Output Power (16QAM RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	21.76	0.14997
1732.50	20175	22.50	0.17783
1750.00	20350	21.80	0.15136

Conducted Output Power (16QAM 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	21.42	0.13868
1732.50	20175	21.38	0.13740
1750.00	20350	21.15	0.13032

Conducted Output Power (16QAM 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1715.00	20000	21.29	0.13459
1732.50	20175	21.18	0.13122
1750.00	20350	21.13	0.12972

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

LTE Band 4

Channel Bandwidth: 20MHz

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	23.04	0.20137
1732.50	20175	22.91	0.19543
1745.00	20300	22.88	0.19409

Conducted Output Power (QPSK 1 RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	22.97	0.19815
1732.50	20175	22.98	0.19861
1745.00	20300	22.70	0.18621

Conducted Output Power (QPSK 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.70	0.14791
1732.50	20175	21.81	0.15171
1745.00	20300	21.57	0.14355

Conducted Output Power (QPSK 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.81	0.15171
1732.50	20175	21.84	0.15276
1745.00	20300	21.79	0.15101

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

Channel Bandwidth: 20MHz

Conducted Output Power (16QAM 1 RB ALLOCATED AT THE LOWER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.92	0.15560
1732.50	20175	21.92	0.15560
1745.00	20300	21.98	0.15776

Conducted Output Power (16QAM 1 RB ALLOCATED AT THE UPPER EDGE)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.72	0.14859
1732.50	20175	21.71	0.14825
1745.00	20300	21.61	0.14488

Conducted Output Power (16QAM 50% RB ALLOCATION CENTERED)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.32	0.13552
1732.50	20175	21.21	0.13213
1745.00	20300	21.11	0.12912

Conducted Output Power (16QAM 100% RB ALLOCATION)			
Frequency (MHz)	Channel	Output Power	
		(dBm)	(W)
1720.00	20050	21.89	0.15453
1732.50	20175	21.87	0.15382
1745.00	20300	21.88	0.15417

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.

LTE Band 4

Channel Bandwidth: 5MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
19975	1711.200	V	15.95	5.13	5.92	16.74	33.00	-16.26
	1714.100	H	11.77	5.14	5.91	12.54	33.00	-20.46
20175	1732.100	V	17.88	5.17	5.88	***18.59**	33.00	-14.41
	1734.100	H	14.29	5.17	5.88	15.00	33.00	-18.00
20375	1754.100	V	16.68	5.21	5.84	17.31	33.00	-15.69
	1754.100	H	12.05	5.21	5.84	12.68	33.00	-20.32

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
19975	1712.800	V	16.24	5.13	5.92	17.03	33.00	-15.97
	1712.700	H	12.26	5.13	5.92	13.05	33.00	-19.95
20175	1733.900	V	18.56	5.17	5.88	***19.27**	33.00	-13.73
	1732.400	H	14.63	5.17	5.88	15.34	33.00	-17.66
20375	1751.200	V	16.71	5.2	5.85	17.36	33.00	-15.64
	1752.500	H	12.28	5.2	5.85	12.93	33.00	-20.07

Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20000	1718.500	V	14.04	5.14	5.91	14.81	33.00	-18.19
	1718.900	H	10.21	5.14	5.91	10.98	33.00	-22.02
20175	1735.100	V	16.15	5.17	5.88	***16.86**	33.00	-16.14
	1729.400	H	12.43	5.16	5.89	13.16	33.00	-19.84
20350	1746.700	V	15.67	5.19	5.86	16.34	33.00	-16.66
	1747.300	H	11	5.2	5.85	11.65	33.00	-21.35

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20000	1717.700	V	14.58	5.14	5.91	15.35	33.00	-17.65
	1711.800	H	10.71	5.13	5.92	11.50	33.00	-21.50
20175	1733.000	V	16.96	5.17	5.88	***17.67**	33.00	-15.33
	1734.800	H	13.43	5.17	5.88	14.14	33.00	-18.86
20350	1747.400	V	15.54	5.2	5.85	16.19	33.00	-16.81
	1746.300	H	11.81	5.19	5.86	12.48	33.00	-20.52

Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20050	1726.500	V	14.06	5.16	5.89	14.79	33.00	-18.21
	1727.100	H	10.2	5.16	5.89	10.93	33.00	-22.07
20175	1732.300	V	15.08	5.17	5.88	***15.79**	33.00	-17.21
	1737.200	H	11.28	5.18	5.87	11.97	33.00	-21.03
20300	1739.400	V	14.91	5.18	5.87	15.60	33.00	-17.40
	1738.400	H	11.15	5.18	5.87	11.84	33.00	-21.16

Channel Bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20050	1725.500	V	13.82	5.16	5.89	14.55	33.00	-18.45
	1727.500	H	10.02	5.16	5.89	10.75	33.00	-22.25
20175	1736.000	V	15.23	5.17	5.88	***15.94**	33.00	-17.06
	1730.900	H	11.08	5.17	5.88	11.79	33.00	-21.21
20300	1741.100	V	14.87	5.18	5.87	15.56	33.00	-17.44
	1739.500	H	11.22	5.18	5.87	11.91	33.00	-21.09

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.

7.2RADIATED EMISSION MEASUREMENT

LIMITS

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to –13dBm

So the limit of emission is the same absolute specified line.

Limits	EQUIVALENT FIELD STRENGTH AT 3m (dBuV/m) (NOTE)
-13	82.22

NOTE: The following formula is used to convert the equipment radiated power to field strength.

E = [1000000√ (30P)] / 3 uV/m, where P is Watts

TEST PROCEDURES

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
3. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
4. Repeat step 1 ~ 3 for horizontal polarization.

NOTE: *The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.*

TEST RESULTS

Below 1GHz

LTE Band 4 / CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
48.4300	-62.82	0.79	-5.83	-69.44	-13.00	-56.44	V
101.7800	-60.39	1.16	-0.64	-62.19	-13.00	-49.19	V
120.2100	-63.96	1.27	-2.06	-67.29	-13.00	-54.29	V
150.2800	-70.49	1.43	0.71	-71.21	-13.00	-58.21	V
174.5300	-75.99	1.59	3	-74.58	-13.00	-61.58	V
379.2000	-79.54	2.31	5.98	-75.87	-13.00	-62.87	V
101.7800	-62.06	1.16	-0.64	-63.86	-13.00	-50.86	H
174.5300	-69.3	1.59	3	-67.89	-13.00	-54.89	H
199.7500	-78.1	1.63	2.94	-76.79	-13.00	-63.79	H
330.7000	-74.66	2.16	5.71	-71.11	-13.00	-58.11	H
390.8400	-74.39	2.32	6	-70.71	-13.00	-57.71	H
529.5500	-76.35	2.75	6	-73.10	-13.00	-60.10	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
48.4300	-63.11	0.79	-5.83	-69.73	-13.00	-56.73	V
101.7800	-60.73	1.16	-0.64	-62.53	-13.00	-49.53	V
120.2100	-63.84	1.27	-2.06	-67.17	-13.00	-54.17	V
174.5300	-76.73	1.59	3	-75.32	-13.00	-62.32	V
279.2900	-84.96	2	5.29	-81.67	-13.00	-68.67	V
390.8400	-80.04	2.32	6	-76.36	-13.00	-63.36	V
101.7800	-61.15	1.16	-0.64	-62.95	-13.00	-49.95	H
161.9200	-67.22	1.5	1.61	-67.11	-13.00	-54.11	H
198.7800	-76.89	1.63	3.05	-75.47	-13.00	-62.47	H
342.3400	-75.82	2.18	5.8	-72.20	-13.00	-59.20	H
390.8400	-73.22	2.32	6	-69.54	-13.00	-56.54	H
448.0700	-76.15	2.58	5.74	-72.99	-13.00	-59.99	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-66.59	0.93	-1.89	-67.41	-13.00	-56.41	V
101.7800	-58.29	1.16	-0.64	-60.09	-13.00	-47.09	V
174.5300	-71.88	1.59	3	-70.47	-13.00	-57.47	V
342.3400	-74.78	2.18	5.8	-71.16	-13.00	-58.16	V
390.8400	-75.04	2.32	6	-71.36	-13.00	-58.36	V
439.3400	-76.44	2.53	5.9	-73.07	-13.00	-60.07	V
101.7800	-61.86	1.16	-0.64	-63.66	-13.00	-50.66	H
161.9200	-69.06	1.5	1.61	-68.95	-13.00	-55.95	H
304.5100	-81.19	2.11	5.69	-77.61	-13.00	-64.61	H
390.8400	-73.89	2.32	6	-70.21	-13.00	-57.21	H
516.9400	-76.31	2.7	6.07	-72.94	-13.00	-59.94	H
612.9700	-75.61	2.94	6.23	-72.32	-13.00	-59.32	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-59.74	1.16	-0.64	-61.54	-13.00	-48.54	V
174.5300	-77.49	1.59	3	-76.08	-13.00	-63.08	V
306.4500	-83.61	2.12	5.73	-80.00	-13.00	-67.00	V
330.7000	-81.01	2.16	5.71	-77.46	-13.00	-64.46	V
379.2000	-78.2	2.31	5.98	-74.53	-13.00	-61.53	V
448.0700	-81.02	2.58	5.74	-77.86	-13.00	-64.86	V
95.9600	-57.03	1.13	0.26	-57.90	-13.00	-44.90	H
150.2800	-61.93	1.43	0.71	-62.65	-13.00	-49.65	H
234.6700	-75.81	1.8	5.38	-72.23	-13.00	-59.23	H
330.7000	-70.14	2.16	5.71	-66.59	-13.00	-53.59	H
448.0700	-71.1	2.58	5.74	-67.94	-13.00	-54.94	H
598.4200	-73.25	2.9	6.37	-69.78	-13.00	-56.78	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-65.59	0.93	-1.89	-68.41	-13.00	-55.41	V
101.7800	-58.29	1.16	-0.64	-60.09	-13.00	-47.09	V
174.5300	-71.88	1.59	3	-70.47	-13.00	-57.47	V
342.3400	-74.78	2.18	5.8	-71.16	-13.00	-58.16	V
390.8400	-75.04	2.32	6	-71.36	-13.00	-58.36	V
439.3400	-76.44	2.53	5.9	-73.07	-13.00	-60.07	V
101.7800	-56.43	1.16	-0.64	-58.23	-13.00	-45.23	H
161.9200	-63.18	1.5	1.61	-63.07	-13.00	-50.07	H
330.7000	-69.54	2.16	5.71	-65.99	-13.00	-52.99	H
448.0700	-71.96	2.58	5.74	-68.80	-13.00	-55.80	H
529.5500	-71.85	2.75	6	-68.60	-13.00	-55.60	H
625.5800	-73.78	2.96	6.16	-70.58	-13.00	-57.58	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-57.5	1.16	-0.64	-59.30	-13.00	-46.30	V
174.5300	-72.03	1.59	3	-70.62	-13.00	-57.62	V
186.1700	-80.69	1.62	3.85	-78.46	-13.00	-65.46	V
330.7000	-76.05	2.16	5.71	-72.50	-13.00	-59.50	V
390.8400	-75.05	2.32	6	-71.37	-13.00	-58.37	V
450.9800	-76.1	2.59	5.74	-72.95	-13.00	-59.95	V
95.9600	-57.28	1.13	0.26	-58.15	-13.00	-45.15	H
150.2800	-61.83	1.43	0.71	-62.55	-13.00	-49.55	H
330.7000	-68.82	2.16	5.71	-65.27	-13.00	-52.27	H
415.0900	-73.39	2.45	5.86	-69.98	-13.00	-56.98	H
448.0700	-71.44	2.58	5.74	-68.28	-13.00	-55.28	H
529.5500	-71.78	2.75	6	-68.53	-13.00	-55.53	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
48.4300	-63.25	0.79	-5.83	-69.87	-13.00	-56.87	V
101.7800	-60.22	1.16	-0.64	-62.02	-13.00	-49.02	V
138.6400	-69.86	1.39	-0.38	-71.63	-13.00	-58.63	V
193.9300	-83.6	1.62	3.58	-81.64	-13.00	-68.64	V
298.6900	-84.38	2.09	5.57	-80.90	-13.00	-67.90	V
390.8400	-80.17	2.32	6	-76.49	-13.00	-63.49	V
161.9200	-67.61	1.5	1.61	-67.50	-13.00	-54.50	H
230.7900	-80.19	1.8	5.4	-76.59	-13.00	-63.59	H
330.7000	-74.8	2.16	5.71	-71.25	-13.00	-58.25	H
390.8400	-74.18	2.32	6	-70.50	-13.00	-57.50	H
426.7300	-74.92	2.48	5.8	-71.60	-13.00	-58.60	H
601.3300	-76.53	2.91	6.39	-73.05	-13.00	-60.05	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
98.8700	-59.94	1.14	-0.21	-61.29	-13.00	-48.29	V
150.2800	-71.38	1.43	0.71	-72.10	-13.00	-59.10	V
264.7400	-84.83	1.94	5.36	-81.41	-13.00	-68.41	V
390.8400	-79.29	2.32	6	-75.61	-13.00	-62.61	V
516.9400	-81.44	2.7	6.07	-78.07	-13.00	-65.07	V
718.7000	-81.11	3.16	6.46	-77.81	-13.00	-64.81	V
101.7800	-61.08	1.16	-0.64	-62.88	-13.00	-49.88	H
174.5300	-68.47	1.59	3	-67.06	-13.00	-54.06	H
379.2000	-75.01	2.31	5.98	-71.34	-13.00	-58.34	H
459.7100	-75.23	2.6	5.88	-71.95	-13.00	-58.95	H
529.5500	-76	2.75	6	-72.75	-13.00	-59.75	H
601.3300	-76.06	2.91	6.39	-72.58	-13.00	-59.58	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-60.42	1.16	-0.64	-62.22	-13.00	-49.22	V
150.2800	-70.87	1.43	0.71	-71.59	-13.00	-58.59	V
161.9200	-74.47	1.5	1.61	-74.36	-13.00	-61.36	V
379.2000	-79.59	2.31	5.98	-75.92	-13.00	-62.92	V
448.0700	-81.17	2.58	5.74	-78.01	-13.00	-65.01	V
644.9800	-79.59	3.02	6.19	-76.42	-13.00	-63.42	V
101.7800	-61.44	1.16	-0.64	-63.24	-13.00	-50.24	H
174.5300	-69.95	1.59	3	-68.54	-13.00	-55.54	H
291.9000	-79.44	2.04	5.44	-76.04	-13.00	-63.04	H
330.7000	-75.39	2.16	5.71	-71.84	-13.00	-58.84	H
426.7300	-73.72	2.48	5.8	-70.40	-13.00	-57.40	H
516.9400	-75.82	2.7	6.07	-72.45	-13.00	-59.45	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
98.8700	-58.59	1.14	-0.21	-59.94	-13.00	-46.94	V
171.6200	-71.82	1.57	2.69	-70.70	-13.00	-57.70	V
312.2700	-79.36	2.14	5.76	-75.74	-13.00	-62.74	V
390.8400	-75.95	2.32	6	-72.27	-13.00	-59.27	V
450.9800	-76.63	2.59	5.74	-73.48	-13.00	-60.48	V
516.9400	-78.63	2.7	6.07	-75.26	-13.00	-62.26	V
98.8700	-56.27	1.14	-0.21	-57.62	-13.00	-44.62	H
150.2800	-61.92	1.43	0.71	-62.64	-13.00	-49.64	H
186.1700	-73.51	1.62	3.85	-71.28	-13.00	-58.28	H
330.7000	-70.61	2.16	5.71	-67.06	-13.00	-54.06	H
354.9500	-72.19	2.25	5.75	-68.69	-13.00	-55.69	H
529.5500	-71.85	2.75	6	-68.60	-13.00	-55.60	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-57.59	1.16	-0.64	-59.39	-13.00	-46.39	V
150.2800	-68.56	1.43	0.71	-69.28	-13.00	-56.28	V
174.5300	-71.76	1.59	3	-70.35	-13.00	-57.35	V
342.3400	-75.01	2.18	5.8	-71.39	-13.00	-58.39	V
390.8400	-74.36	2.32	6	-70.68	-13.00	-57.68	V
450.9800	-75.68	2.59	5.74	-72.53	-13.00	-59.53	V
101.7800	-56.69	1.16	-0.64	-58.49	-13.00	-45.49	H
150.2800	-61.65	1.43	0.71	-62.37	-13.00	-49.37	H
174.5300	-66.56	1.59	3	-65.15	-13.00	-52.15	H
330.7000	-70.36	2.16	5.71	-66.81	-13.00	-53.81	H
448.0700	-71.38	2.58	5.74	-68.22	-13.00	-55.22	H
529.5500	-71.95	2.75	6	-68.70	-13.00	-55.70	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
95.9600	-64.04	1.13	0.26	-64.91	-13.00	-51.91	V
174.5300	-76.35	1.59	3	-74.94	-13.00	-61.94	V
280.2600	-83.76	2	5.31	-80.45	-13.00	-67.45	V
390.8400	-78.65	2.32	6	-74.97	-13.00	-61.97	V
505.3000	-81.35	2.69	5.95	-78.09	-13.00	-65.09	V
635.2800	-80.76	2.99	6.17	-77.58	-13.00	-64.58	V
98.8700	-56.33	1.14	-0.21	-57.68	-13.00	-44.68	H
150.2800	-61.89	1.43	0.71	-62.61	-13.00	-49.61	H
276.3800	-75.71	1.99	5.23	-72.47	-13.00	-59.47	H
330.7000	-70.02	2.16	5.71	-66.47	-13.00	-53.47	H
415.0900	-72.48	2.45	5.86	-69.07	-13.00	-56.07	H
529.5500	-72.36	2.75	6	-69.11	-13.00	-56.11	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-61.07	1.16	-0.64	-62.87	-13.00	-49.87	V
150.2800	-71.03	1.43	0.71	-71.75	-13.00	-58.75	V
280.2600	-84.76	2	5.31	-81.45	-13.00	-68.45	V
379.2000	-80	2.31	5.98	-76.33	-13.00	-63.33	V
439.3400	-82.3	2.53	5.9	-78.93	-13.00	-65.93	V
573.2000	-80.86	2.88	6.08	-77.66	-13.00	-64.66	V
101.7800	-62.37	1.16	-0.64	-64.17	-13.00	-51.17	H
120.2100	-63.39	1.27	-2.06	-66.72	-13.00	-53.72	H
161.9200	-68	1.5	1.61	-67.89	-13.00	-54.89	H
198.7800	-78.14	1.63	3.05	-76.72	-13.00	-63.72	H
330.7000	-76.81	2.16	5.71	-73.26	-13.00	-60.26	H
390.8400	-73.74	2.32	6	-70.06	-13.00	-57.06	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
95.9600	-60.28	1.13	0.26	-61.15	-13.00	-48.15	V
174.5300	-69.49	1.59	3	-68.08	-13.00	-55.08	V
330.7000	-75.73	2.16	5.71	-72.18	-13.00	-59.18	V
390.8400	-75.28	2.32	6	-71.60	-13.00	-58.60	V
435.4600	-76.22	2.51	5.86	-72.87	-13.00	-59.87	V
516.9400	-79.62	2.7	6.07	-76.25	-13.00	-63.25	V
48.4300	-62.15	0.79	-5.83	-68.77	-13.00	-55.77	H
120.2100	-63.11	1.27	-2.06	-66.44	-13.00	-53.44	H
203.6300	-79.17	1.65	3.94	-76.88	-13.00	-63.88	H
342.3400	-75.08	2.18	5.8	-71.46	-13.00	-58.46	H
439.3400	-75.37	2.53	5.9	-72.00	-13.00	-59.00	H
601.3300	-75.92	2.91	6.39	-72.44	-13.00	-59.44	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 5, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
98.8700	-59.88	1.14	-0.21	-61.23	-13.00	-48.23	V
174.5300	-70.86	1.59	3	-69.45	-13.00	-56.45	V
312.2700	-79.98	2.14	5.76	-76.36	-13.00	-63.36	V
345.2500	-75.44	2.2	5.8	-71.84	-13.00	-58.84	V
390.8400	-75.6	2.32	6	-71.92	-13.00	-58.92	V
439.3400	-75.83	2.53	5.9	-72.46	-13.00	-59.46	V
98.8700	-55.47	1.14	-0.21	-56.82	-13.00	-43.82	H
120.2100	-58.17	1.27	-2.06	-61.50	-13.00	-48.50	H
161.9200	-63.37	1.5	1.61	-63.26	-13.00	-50.26	H
234.6700	-77.01	1.8	5.38	-73.43	-13.00	-60.43	H
330.7000	-70.79	2.16	5.71	-67.24	-13.00	-54.24	H
448.0700	-70.54	2.58	5.74	-67.38	-13.00	-54.38	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
98.8700	-61.27	1.14	-0.21	-62.62	-13.00	-49.62	V
120.2100	-64.74	1.27	-2.06	-68.07	-13.00	-55.07	V
174.5300	-76.9	1.59	3	-75.49	-13.00	-62.49	V
246.3100	-85.26	1.83	5.54	-81.55	-13.00	-68.55	V
330.7000	-81.13	2.16	5.71	-77.58	-13.00	-64.58	V
390.8400	-77.82	2.32	6	-74.14	-13.00	-61.14	V
98.8700	-56.87	1.14	-0.21	-58.22	-13.00	-45.22	H
150.2800	-61.69	1.43	0.71	-62.41	-13.00	-49.41	H
174.5300	-66.34	1.59	3	-64.93	-13.00	-51.93	H
330.7000	-70.62	2.16	5.71	-67.07	-13.00	-54.07	H
415.0900	-72.64	2.45	5.86	-69.23	-13.00	-56.23	H
448.0700	-71.55	2.58	5.74	-68.39	-13.00	-55.39	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-57.73	1.16	-0.64	-59.53	-13.00	-46.53	V
150.2800	-68.03	1.43	0.71	-68.75	-13.00	-55.75	V
279.2900	-82.7	2	5.29	-79.41	-13.00	-66.41	V
342.3400	-74.51	2.18	5.8	-70.89	-13.00	-57.89	V
390.8400	-75.07	2.32	6	-71.39	-13.00	-58.39	V
459.7100	-79.12	2.6	5.88	-75.84	-13.00	-62.84	V
66.8600	-61.86	0.93	-1.89	-64.68	-13.00	-51.68	H
95.9600	-56.77	1.13	0.26	-57.64	-13.00	-44.64	H
150.2800	-61.34	1.43	0.71	-62.06	-13.00	-49.06	H
174.5300	-66.82	1.59	3	-65.41	-13.00	-52.41	H
222.0600	-76.27	1.77	5.34	-72.70	-13.00	-59.70	H
330.7000	-70.69	2.16	5.71	-67.14	-13.00	-54.14	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 6, 2015
Temperature:	24℃	**Tested by:**	Owen Wu
Humidity:	61% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
101.7800	-57.85	1.16	-0.64	-59.65	-13.00	-46.65	V
120.2100	-62.39	1.27	-2.06	-65.72	-13.00	-52.72	V
138.6400	-67.76	1.39	-0.38	-69.53	-13.00	-56.53	V
203.6300	-80.94	1.65	3.94	-78.65	-13.00	-65.65	V
342.3400	-73.56	2.18	5.8	-69.94	-13.00	-56.94	V
439.3400	-75.65	2.53	5.9	-72.28	-13.00	-59.28	V
98.8700	-56.08	1.14	-0.21	-57.43	-13.00	-44.43	H
150.2800	-61.63	1.43	0.71	-62.35	-13.00	-49.35	H
234.6700	-75.83	1.8	5.38	-72.25	-13.00	-59.25	H
330.7000	-70.84	2.16	5.71	-67.29	-13.00	-54.29	H
448.0700	-70.48	2.58	5.74	-67.32	-13.00	-54.32	H
529.5500	-73.09	2.75	6	-69.84	-13.00	-56.84	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Above 1GHz

LTE Band 4 / CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3422.000	-44.7	7.64	8.67	-43.67	-13.00	-30.67	V
4962.000	-51.48	9.35	10.54	-50.29	-13.00	-37.29	V
N/A							
2834.000	-53.9	6.93	6.97	-53.86	-13.00	-40.86	H
3429.000	-45.67	7.66	8.69	-44.64	-13.00	-31.64	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3464.000	-47.99	7.76	8.79	-46.96	-13.00	-33.96	V
4262.000	-50.16	8.56	9.61	-49.11	-13.00	-36.11	V
N/A							
2134.000	-47.11	5.84	5.59	-47.36	-13.00	-34.36	H
3464.000	-48.06	7.76	8.79	-47.03	-13.00	-34.03	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3506.000	-46.11	7.88	8.91	-45.08	-13.00	-32.08	V
4304.000	-50.65	8.6	9.64	-49.61	-13.00	-36.61	V
N/A							
2155.000	-39.72	5.87	5.62	-39.97	-13.00	-26.97	H
3506.000	-46.23	7.88	8.91	-45.20	-13.00	-32.20	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3422.000	-45.58	7.64	8.67	-44.55	-13.00	-31.55	V
4290.000	-51	8.59	9.63	-49.96	-13.00	-36.96	V
N/A							
3422.000	-45.6	7.64	8.67	-44.57	-13.00	-31.57	H
4780.000	-50.41	9.28	10.25	-49.44	-13.00	-36.44	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
2967.000	-54.08	7.06	7.31	-53.83	-13.00	-40.83	V
3464.000	-47.6	7.76	8.79	-46.57	-13.00	-33.57	V
N/A							
2442.000	-49.62	6.25	6.02	-49.85	-13.00	-36.85	H
3464.000	-47.76	7.76	8.79	-46.73	-13.00	-33.73	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3506.000	-45.87	7.88	8.91	-44.84	-13.00	-31.84	V
4640.000	-51.35	9.13	10.02	-50.46	-13.00	-37.46	V
N/A							
3506.000	-46.08	7.88	8.91	-45.05	-13.00	-32.05	H
4766.000	-50.37	9.26	10.23	-49.40	-13.00	-36.40	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3429.000	-46.87	7.66	8.69	-45.84	-13.00	-32.84	V
4227.000	-50.3	8.52	9.58	-49.24	-13.00	-36.24	V
N/A							
2442.000	-49.61	6.25	6.02	-49.84	-13.00	-36.84	H
3429.000	-48.42	7.66	8.69	-47.39	-13.00	-34.39	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3464.000	-50.18	7.76	8.79	-49.15	-13.00	-36.15	V
4262.000	-50.75	8.56	9.61	-49.70	-13.00	-36.70	V
N/A							
2442.000	-49.61	6.25	6.02	-49.84	-13.00	-36.84	H
3471.000	-49	7.78	8.81	-47.97	-13.00	-34.97	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3499.000	-46.83	7.87	8.9	-45.80	-13.00	-32.80	V
4297.000	-49.62	8.6	9.64	-48.58	-13.00	-35.58	V
N/A							
2155.000	-40.34	5.87	5.62	-40.59	-13.00	-27.59	H
3499.000	-47.76	7.87	8.9	-46.73	-13.00	-33.73	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3422.000	-47.74	7.64	8.67	-46.71	-13.00	-33.71	V
4227.000	-51.49	8.52	9.58	-50.43	-13.00	-37.43	V
N/A							
2435.000	-50.57	6.24	6.01	-50.80	-13.00	-37.80	H
3429.000	-47.53	7.66	8.69	-46.50	-13.00	-33.50	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3464.000	-49.71	7.76	8.79	-48.68	-13.00	-35.68	V
4262.000	-50.05	8.56	9.61	-49.00	-13.00	-36.00	V
N/A							
3464.000	-49.47	7.76	8.79	-48.44	-13.00	-35.44	H
4479.000	-50.09	8.85	9.78	-49.16	-13.00	-36.16	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3499.000	-46.32	7.87	8.9	-45.29	-13.00	-32.29	V
5802.000	-50.92	10.42	10.86	-50.48	-13.00	-37.48	V
N/A							
2148.000	-40.25	5.86	5.61	-40.50	-13.00	-27.50	H
3499.000	-47.75	7.87	8.9	-46.72	-13.00	-33.72	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3443.000	-51.43	7.7	8.73	-50.40	-13.00	-37.40	V
4731.000	-51.23	9.19	10.17	-50.25	-13.00	-37.25	V
N/A							
3443.000	-51.82	7.7	8.73	-50.79	-13.00	-37.79	H
4556.000	-49.52	9.03	9.89	-48.66	-13.00	-35.66	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3464.000	-52.12	7.76	8.79	-51.09	-13.00	-38.09	V
4262.000	-48.55	8.56	9.61	-47.50	-13.00	-34.50	V
N/A							
3464.000	-50.74	7.76	8.79	-49.71	-13.00	-36.71	H
4507.000	-50.37	8.93	9.81	-49.49	-13.00	-36.49	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3492.000	-49.91	7.85	8.88	-48.88	-13.00	-35.88	V
4290.000	-51.62	8.59	9.63	-50.58	-13.00	-37.58	V
N/A							
3499.000	-49.19	7.87	8.9	-48.16	-13.00	-35.16	H
4423.000	-50.01	8.7	9.74	-48.97	-13.00	-35.97	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

LTE Band 4 / CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode:	Tx / Low channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3443.000	-52.18	7.7	8.73	-51.15	-13.00	-38.15	V
3905.000	-51.41	8.39	9.31	-50.49	-13.00	-37.49	V
N/A							
4241.000	-50.31	8.54	9.59	-49.26	-13.00	-36.26	H
5144.000	-50.01	9.5	10.66	-48.85	-13.00	-35.85	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / Middle channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
2442.000	-51.64	6.25	6.02	-51.87	-13.00	-38.87	V
3464.000	-51.92	7.76	8.79	-50.89	-13.00	-37.89	V
N/A							
3464.000	-50.26	7.76	8.79	-49.23	-13.00	-36.23	H
4094.000	-49.54	8.45	9.48	-48.51	-13.00	-35.51	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

Operation Mode:	Tx / High channel	**Test Date:**	June 2, 2015
Temperature:	23℃	**Tested by:**	Owen Wu
Humidity:	62% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3499.000	-50.47	7.87	8.9	-49.44	-13.00	-36.44	V
4290.000	-49.32	8.59	9.63	-48.28	-13.00	-35.28	V
N/A							
3492.000	-50.25	7.85	8.88	-49.22	-13.00	-36.22	H
4339.000	-50.19	8.62	9.67	-49.14	-13.00	-36.14	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*