

FCC 47 CFR PART 27 SUBPART C, H**TEST REPORT****For****LTE-FDD/HSPA MODULE****Model No.: SIM7600AH****Trade Name: SIMCOM**

Issued to

Shanghai Simcom Ltd.
SIM Technology Building, No.633, Jinzhong Road, Changning District, Shanghai,
P.R. China 200233

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issued Date: July 5, 2021

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 5, 2021	Initial Issue	ALL	Allison Chen

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION.....	4
2. EUT DESCRIPTION	5
3. TEST METHODOLOGY	6
3.1 DESCRIPTION OF TEST TYPE	6
3.2 THE WORST MODE OF MEASUREMENT	7
4. TEST SUMMARY.....	8
5. INSTRUMENT CALIBRATION.....	9
5.1 MEASURING INSTRUMENT CALIBRATION.....	9
5.2 MEASUREMENT EQUIPMENT USED.....	9
5.3 MEASUREMENT UNCERTAINTY.....	10
6. FACILITIES AND ACCREDITATIONS.....	11
6.1 FACILITIES.....	11
6.2 EQUIPMENT	11
7. SETUP OF EQUIPMENT UNDER TEST.....	12
7.1 SETUP CONFIGURATION OF EUT	12
7.2 SUPPORT EQUIPMENT	12
8. TEST PROCEDURE AND RESULT.....	13
8.1 ERP MEASUREMENT.....	13
8.2 RADIATED EMISSION MEASUREMENT	18
APPENDIX A PHOTOGRAPHS OF TEST SETUP.....	A-1

1. TEST RESULT CERTIFICATION

Applicant: Shanghai Simcom Ltd.
SIM Technology Building, No.633, Jinzhong Road,
Changning District, Shanghai, P.R. China 200233

Manufacturer: Shanghai Simcom Ltd.
SIM Technology Building, No.633, Jinzhong Road,
Changning District, Shanghai, P.R. China 200233

Equipment Under Test: LTE-FDD/HSPA MODULE

Trade Name: SIMCOM

Model No.: SIM7600AH

Date of Test: May 7, 2021

APPLICABLE STANDARDS	
Standard	TEST RESULT
FCC Part 27, Subpart C, H, FCC Part 2	No non-compliance noted
Statements of Conformity	

Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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:



Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	LTE-FDD/HSPA MODULE	
Model No.	SIM7600AH	
Model Discrepancy	N/A	
Trade	SIMCOM	
Received Date	March 24, 2021	
Power Supply	Power from Adapter. CHANNEL WELL TECHNOLOGY / KPL-050F-VI I/P: 100-240VAC, 50/60Hz, 1.7A O/P: 12VDC, 4.17A 50W	
Modulation Technology	LTE Band 12	QPSK, 16QAM
Frequency Range	LTE Band 12 Channel Bandwidth: 1.4MHz	669.7MHz ~ 715.3MHz
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz
	LTE Band 12 Channel Bandwidth: 10MHz	704MHz ~ 711MHz
Antenna Specification	FPC Antenna Band 12 Gain: -3.42 dBi	

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST TYPE

The EUT (model: SIM7600AH) had been tested under operating condition.

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

LTE Band 12: 699 MHz ~ 716 MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	1.4MHz		3MHz		5MHz		10MHz	
	Channel	Frequency (MHz)						
Low CH	23017	699.7	23025	700.5	23035	701.5	23060	704
Middle CH	23095	707.5	23095	707.5	23095	707.5	23095	707.5
High CH	23173	715.3	23165	714.5	23155	713.5	23130	711

3.2 THE WORST MODE OF MEASUREMENT

3.2.1 The worst mode of measurement

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

4. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
-	2	Antenna Requirement	Pass
27.50(c)	8.1	ERP Measurement	Pass
27.53(g)	8.2	Spurious Radiation Measurement	Pass

Report No.: T210324W02-RP4

5. INSTRUMENT CALIBRATION

5.1 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.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

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

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021
Radio Communication Analyzer	Anritsu	MT-8820C	6201240043	07/17/2020	07/16/2021
Software			N/A		

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/08/2021	02/07/2022
Bilog Antenna	Sunol Sciences	JB3	A030105	07/24/2020	07/23/2021
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/19/2020	09/18/2021
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022
Pre-Amplifier	HP	8449B	3008A00965	12/25/2020	12/24/2021
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	07/24/2020	07/23/2021
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Radio Communication Analyzer	Anritsu	MT-8820C	6201240043	07/17/2020	07/16/2021
Software			e3 6.11-20180413		

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

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

6. FACILITIES AND ACCREDITATIONS

6.1 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, Taiwan. (R.O.C.)

Tel: 886-2-2299-9720 / Fax: 886-2-2299-9721

Canada Registration number: 2324G

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

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. 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."

7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

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

7.2 SUPPORT EQUIPMENT

No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H

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.

8. TEST PROCEDURE AND RESULT

8.1 ERP MEASUREMENT

LIMIT

According to FCC §2.1046

FCC 27.50 (c) (10): The portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 Watts ERP.

TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

1. The transmitter output power was connected to the call box.
2. Set EUT at maximum output power via call box.
3. Set Call box at lowest, middle and highest channels for each band and modulation.

TEST RESULTS

No non-compliance noted.

Temperature: 23.9°C

Test Date:

May 7, 2021

Humidity: 51% RH

Tested by:

Jerry Chang

LTE Band 12

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power (dBm)	ERP Power
Band 12	1.4M	23017	699.7	QPSK	1	0	0	21.93	16.36
					1	2	0	22.28	16.71
					1	5	0	21.96	16.39
					3	0	1	20.92	15.35
					3	1	1	19.82	14.25
					3	2	1	21.10	15.53
					6	0	1	20.97	15.40
		23095	707.5	16QAM	1	0	1	21.85	16.28
					1	2	1	21.91	16.34
					1	5	1	21.84	16.27
					3	0	2	20.08	14.51
					3	1	2	20.01	14.44
					3	2	2	20.33	14.76
					6	0	2	19.98	14.41
		23173	715.3	QPSK	1	0	0	21.98	16.41
					1	2	0	22.31	16.74
					1	5	0	22.22	16.65
					3	0	1	21.10	15.53
					3	1	1	21.08	15.51
					3	2	1	21.12	15.55
					6	0	1	20.97	15.40
		23095	707.5	16QAM	1	0	1	21.49	15.92
					1	2	1	21.70	16.13
					1	5	1	21.51	15.94
					3	0	2	19.90	14.33
					3	1	2	20.02	14.45
					3	2	2	20.15	14.58
					6	0	2	20.14	14.57
		23173	715.3	QPSK	1	0	0	22.05	16.48
					1	2	0	22.23	16.66
					1	5	0	22.07	16.50
					3	0	1	20.96	15.39
					3	1	1	21.14	15.57
					3	2	1	21.20	15.63
					6	0	1	21.07	15.50
		23095	707.5	16QAM	1	0	1	20.88	15.31
					1	2	1	21.03	15.46
					1	5	1	20.95	15.38
					3	0	2	20.06	14.49
					3	1	2	20.28	14.71
					3	2	2	20.15	14.58
					6	0	2	20.22	14.65

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power (dBm)	ERP Power	
Band 12	3M	23025	700.5	QPSK	1	0	0	21.96	16.39	
					1	7	0	22.31	16.74	
					1	14	0	21.99	16.42	
					8	0	1	20.95	15.38	
					8	4	1	19.85	14.28	
					8	7	1	21.13	15.56	
					15	0	1	21.00	15.43	
				16QAM	1	0	1	21.88	16.31	
		23095	707.5		1	7	1	21.94	16.37	
					1	14	1	21.87	16.30	
					8	0	2	20.11	14.54	
					8	4	2	20.04	14.47	
					8	7	2	20.36	14.79	
					15	0	2	20.01	14.44	
			QPSK	1	0	0	21.99	16.42		
		23165		714.5		1	7	0	22.32	16.75
						1	14	0	22.23	16.66
						8	0	1	21.11	15.54
						8	4	1	21.09	15.52
						8	7	1	21.13	15.56
						15	0	1	20.98	15.41
			16QAM	1	0	1	21.50	15.93		
				1	7	1	21.71	16.14		
				1	14	1	21.52	15.95		
				8	0	2	19.91	14.34		
				8	4	2	20.03	14.46		
				8	7	2	20.16	14.59		
				15	0	2	20.15	14.58		
			QPSK	1	0	0	22.07	16.50		
				1	7	0	22.25	16.68		
				1	14	0	22.09	16.52		
				8	0	1	20.98	15.41		
				8	4	1	21.16	15.59		
				8	7	1	21.22	15.65		
				15	0	1	21.09	15.52		
			16QAM	1	0	1	20.90	15.33		
				1	7	1	21.05	15.48		
				1	14	1	20.97	15.40		
				8	0	2	20.08	14.51		
				8	4	2	20.30	14.73		
				8	7	2	20.17	14.60		
				15	0	2	20.24	14.67		

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power (dBm)	ERP Power
Band 12	5M	23035	701.5	QPSK	1	0	0	21.98	16.41
					1	12	0	22.33	16.76
					1	24	0	22.01	16.44
					12	0	1	20.97	15.40
					12	6	1	19.87	14.30
					12	11	1	21.15	15.58
					25	0	1	21.02	15.45
		23095	707.5	16QAM	1	0	1	21.90	16.33
					1	12	1	21.96	16.39
					1	24	1	21.89	16.32
					12	0	2	20.13	14.56
					12	6	2	20.06	14.49
					12	11	2	20.38	14.81
					25	0	2	20.03	14.46
		23155	713.5	QPSK	1	0	0	22.00	16.43
					1	12	0	22.33	16.76
					1	24	0	22.24	16.67
					12	0	1	21.12	15.55
					12	6	1	21.10	15.53
					12	11	1	21.14	15.57
					25	0	1	20.99	15.42
		23095	707.5	16QAM	1	0	1	21.51	15.94
					1	12	1	21.72	16.15
					1	24	1	21.53	15.96
					12	0	2	19.92	14.35
					12	6	2	20.04	14.47
					12	11	2	20.17	14.60
					25	0	2	20.16	14.59
		23155	713.5	QPSK	1	0	0	22.09	16.52
					1	12	0	22.27	16.70
					1	24	0	22.11	16.54
					12	0	1	21.00	15.43
					12	6	1	21.18	15.61
					12	11	1	21.24	15.67
					25	0	1	21.11	15.54
		23095	707.5	16QAM	1	0	1	20.92	15.35
					1	12	1	21.07	15.50
					1	24	1	20.99	15.42
					12	0	2	20.10	14.53
					12	6	2	20.32	14.75
					12	11	2	20.19	14.62
					25	0	2	20.26	14.69

Report No.: T210324W02-RP4

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power (dBm)	ERP Power
Band 12	10M	23060	704.0	QPSK	1	0	0	22.03	16.46
					1	24	0	22.38	16.81
					1	49	0	22.06	16.49
					25	0	1	21.02	15.45
					25	12	1	19.92	14.35
					25	24	1	21.20	15.63
					50	0	1	21.07	15.50
		23095	707.5	16QAM	1	0	1	21.95	16.38
					1	24	1	22.01	16.44
					1	49	1	21.94	16.37
					25	0	2	20.18	14.61
					25	12	2	20.11	14.54
					25	24	2	20.43	14.86
					50	0	2	20.08	14.51
		23130	711.0	QPSK	1	0	0	22.04	16.47
					1	24	0	22.37	16.80
					1	49	0	22.28	16.71
					25	0	1	21.16	15.59
					25	12	1	21.14	15.57
					25	24	1	21.18	15.61
					50	0	1	21.03	15.46
		23130	711.0	16QAM	1	0	1	21.55	15.98
					1	24	1	21.76	16.19
					1	49	1	21.57	16.00
					25	0	2	19.96	14.39
					25	12	2	20.08	14.51
					25	24	2	20.21	14.64
					50	0	2	20.20	14.63
		23130	711.0	QPSK	1	0	0	22.16	16.59
					1	24	0	22.34	16.77
					1	49	0	22.18	16.61
					25	0	1	21.07	15.50
					25	12	1	21.25	15.68
					25	24	1	21.31	15.74
					50	0	1	21.18	15.61
		23130	711.0	16QAM	1	0	1	20.99	15.42
					1	24	1	21.14	15.57
					1	49	1	21.06	15.49
					25	0	2	20.17	14.60
					25	12	2	20.39	14.82
					25	24	2	20.26	14.69
					50	0	2	20.33	14.76

8.2 RADIATED EMISSION MEASUREMENT

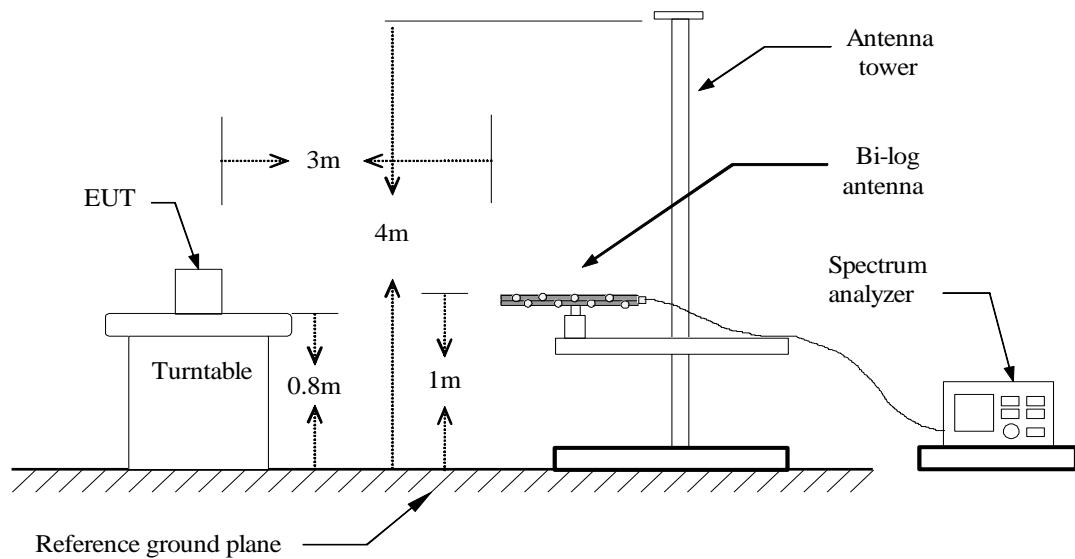
LIMITS

FCC §27.53(g), Band 12

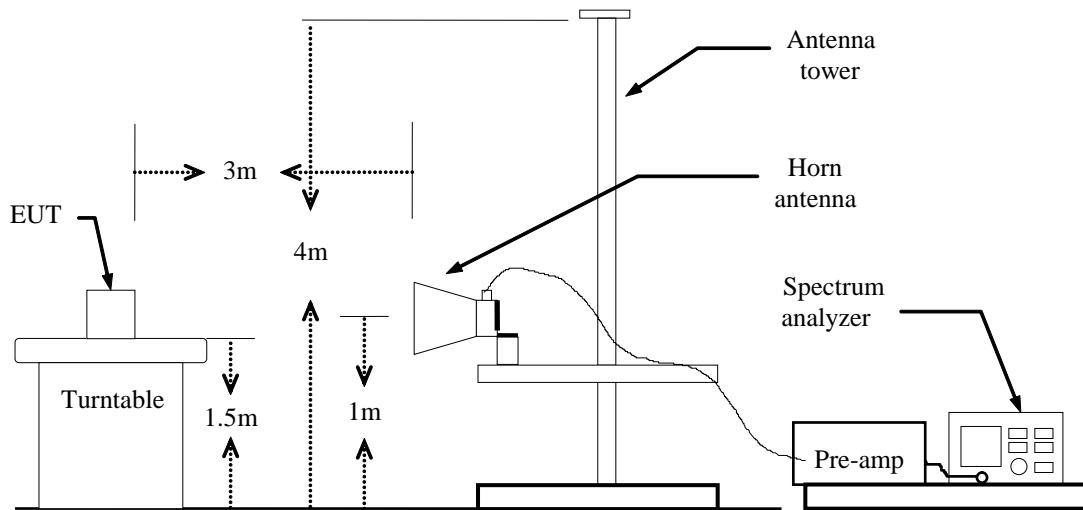
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Test Configuration

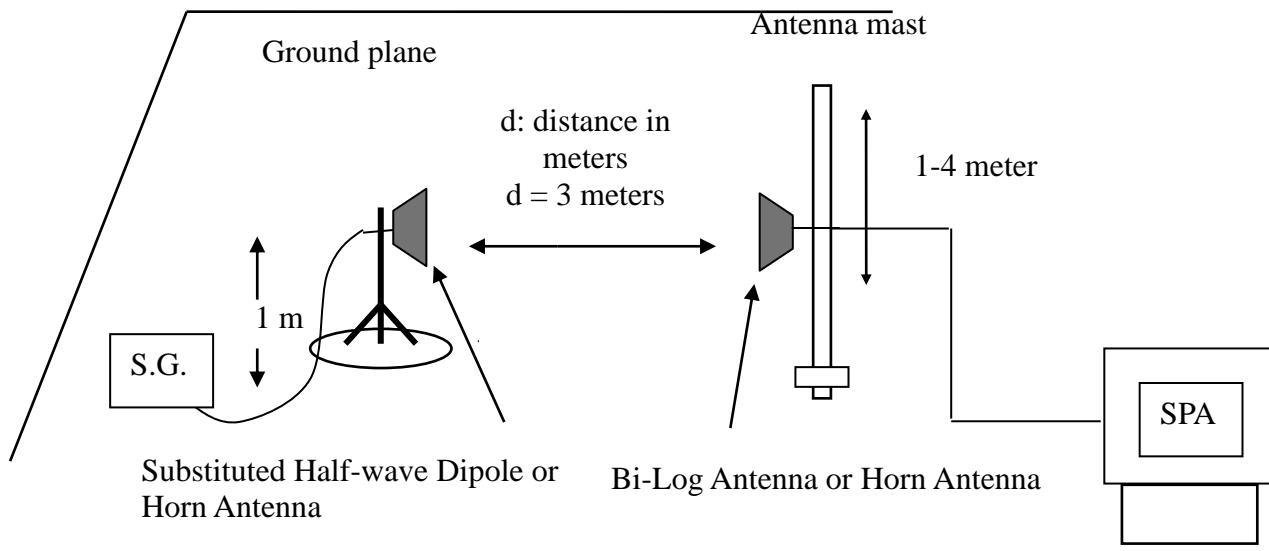
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



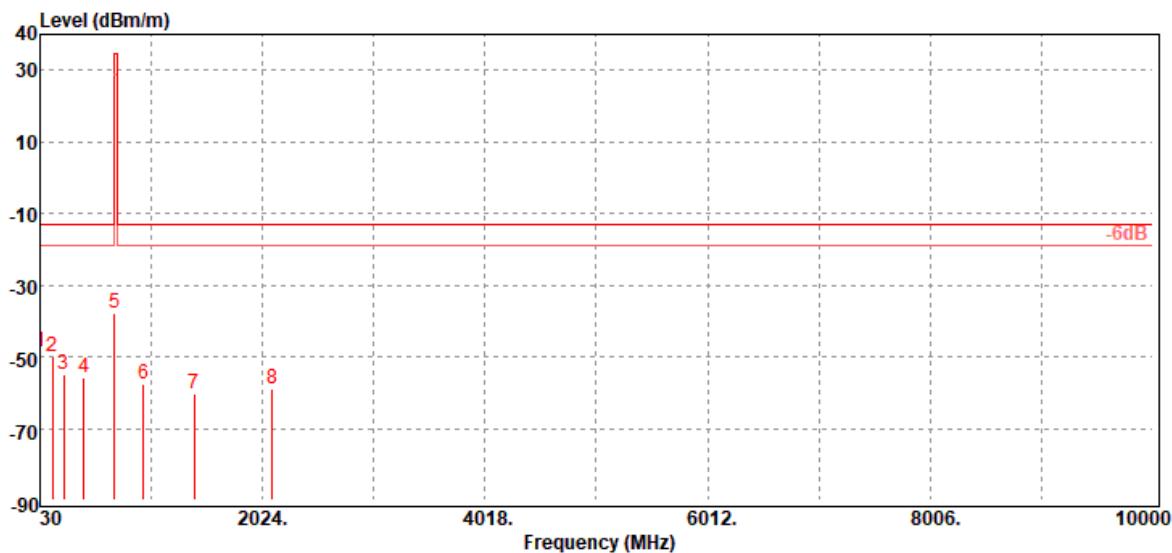
TEST PROCEDURES

1. According to KDB 971168 D01 and C63.26: 2015.
2. The EUT was placed on a turntable
 - (1) Below 1G : 0.8m
 - (2) Above 1G : 1.5m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. A horn antenna was driven by a signal generator.
5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

Test Results

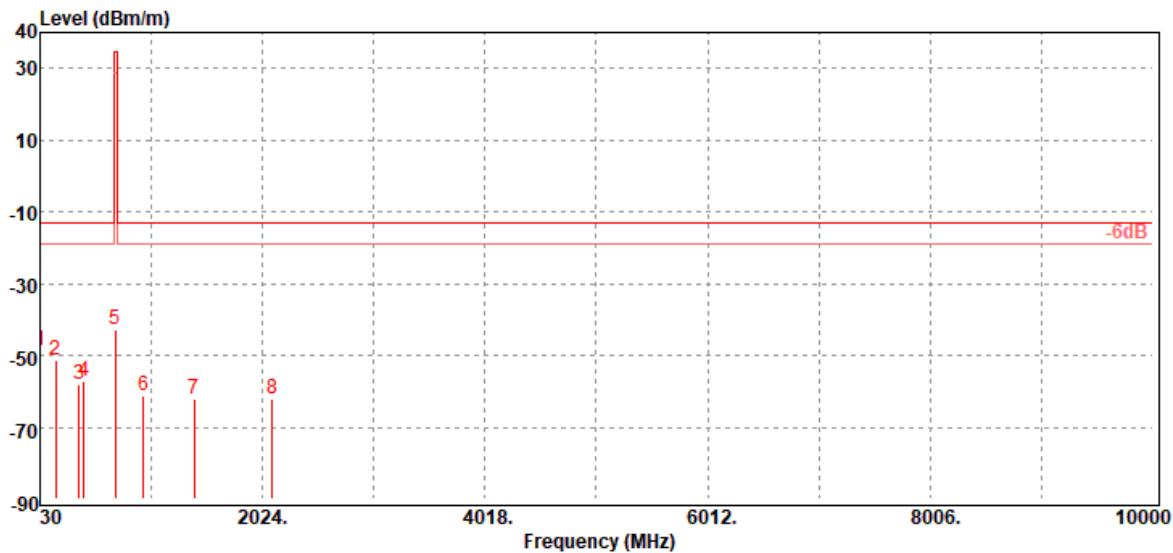
LTE Band 12 / BW: 20MHz / QPSK / RB =1, RB Offset = 0

Operation Mode: Tx / Low CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Ver.



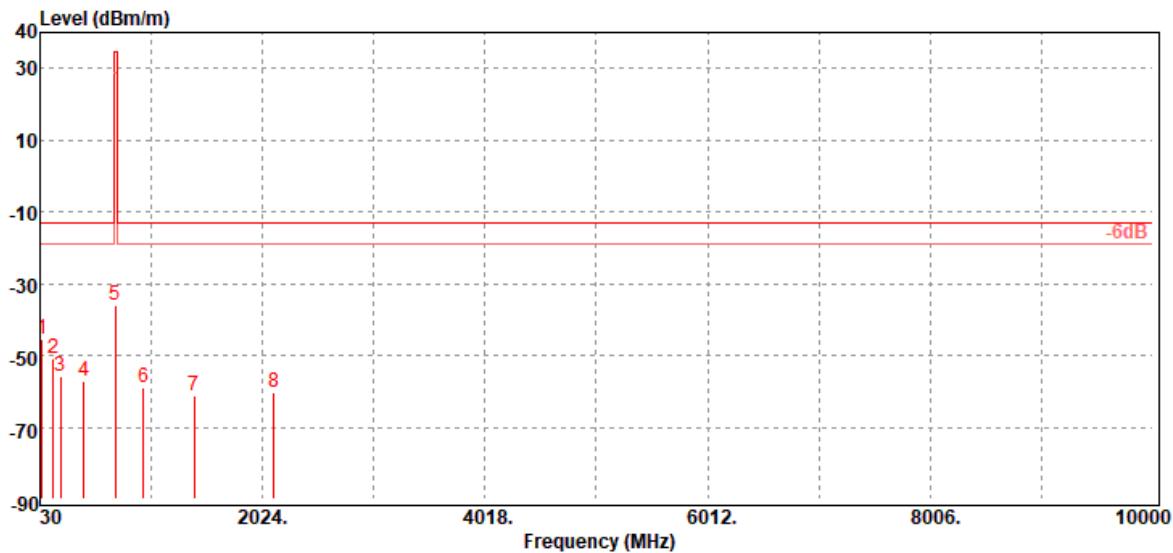
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
32.91	-48.53	-20.87	-27.19	-0.47	-13.00	-35.53	V
139.61	-50.02	-40.47	-8.58	-0.97	-13.00	-37.02	V
240.49	-55.01	-51.66	-2.08	-1.27	-13.00	-42.01	V
419.94	-55.69	-52.09	-1.90	-1.70	-13.00	-42.69	V
699.30	-37.60	-33.97	-1.40	-2.23	34.77	-72.37	V
959.26	-57.68	-53.76	-1.29	-2.63	-13.00	-44.68	V
1408.00	-60.19	-64.99	8.05	-3.25	-13.00	-47.19	V
2112.00	-59.11	-64.70	9.70	-4.11	-13.00	-46.11	V

Operation Mode: Tx / Low CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Hor.



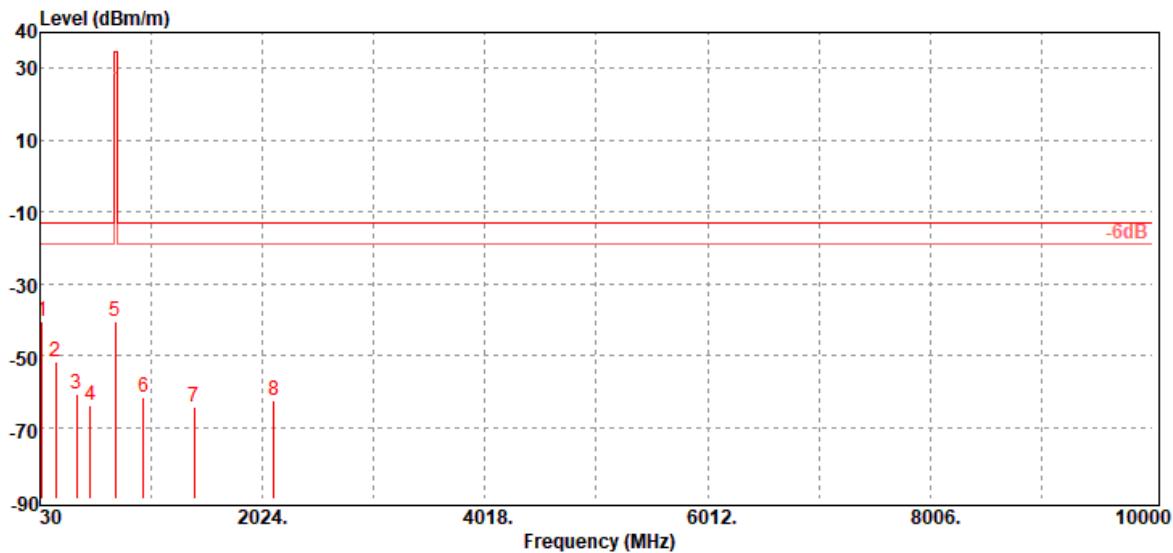
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
32.91	-48.43	-20.77	-27.19	-0.47	-13.00	-35.43	H
173.56	-51.20	-45.13	-4.99	-1.08	-13.00	-38.20	H
381.14	-58.06	-54.96	-1.48	-1.62	-13.00	-45.06	H
419.94	-57.02	-53.42	-1.90	-1.70	-13.00	-44.02	H
707.06	-42.97	-39.27	-1.46	-2.24	34.77	-77.74	H
959.26	-61.21	-57.29	-1.29	-2.63	-13.00	-48.21	H
1408.00	-62.04	-66.84	8.05	-3.25	-13.00	-49.04	H
2112.00	-62.15	-67.74	9.70	-4.11	-13.00	-49.15	H

Operation Mode: Tx / Mid CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Ver.



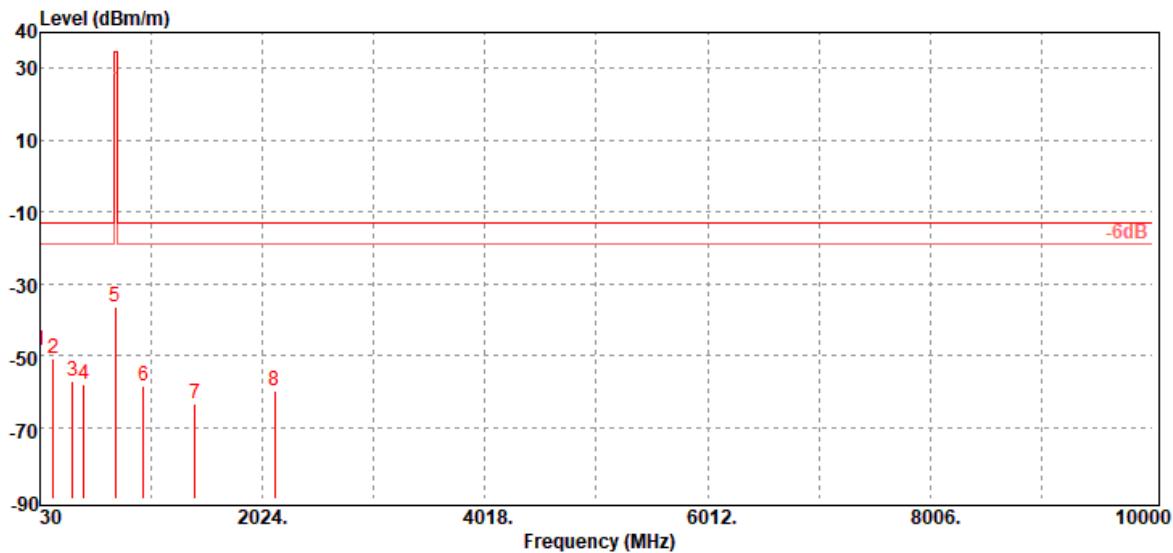
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
47.46	-45.49	-31.40	-13.53	-0.56	-13.00	-32.49	V
148.34	-50.74	-42.47	-7.27	-1.00	-13.00	-37.74	V
216.24	-55.81	-52.52	-2.08	-1.21	-13.00	-42.81	V
419.94	-57.27	-53.67	-1.90	-1.70	-13.00	-44.27	V
704.15	-35.89	-32.18	-1.48	-2.23	34.77	-70.66	V
959.26	-58.98	-55.06	-1.29	-2.63	-13.00	-45.98	V
1415.00	-61.18	-66.02	8.09	-3.25	-13.00	-48.18	V
2122.50	-60.33	-65.83	9.62	-4.12	-13.00	-47.33	V

Operation Mode: Tx / Mid CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Hor.



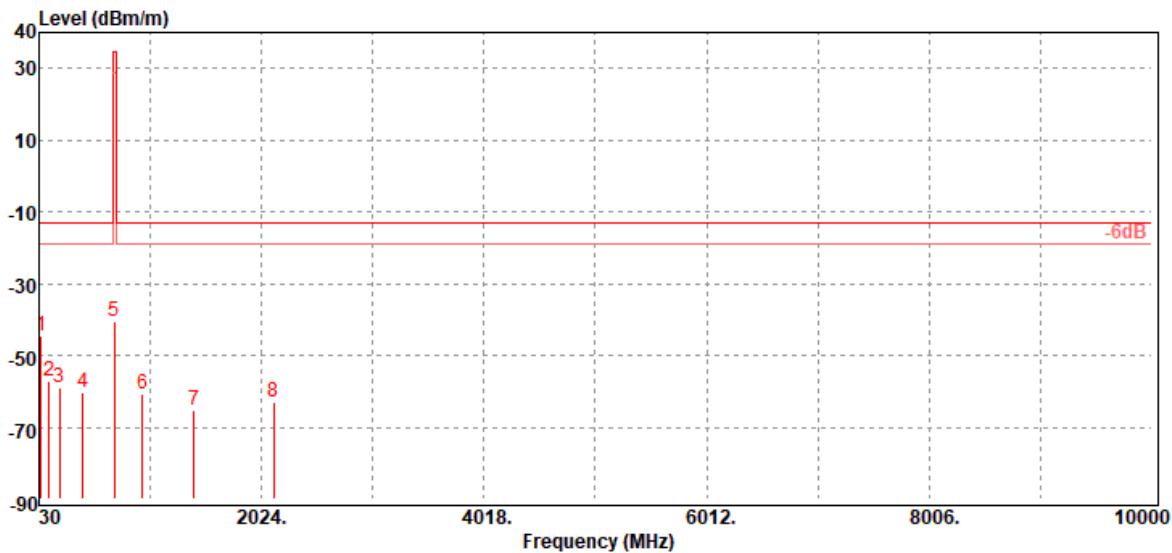
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
46.49	-40.45	-25.54	-14.36	-0.55	-13.00	-27.45	H
173.56	-51.99	-45.92	-4.99	-1.08	-13.00	-38.99	H
359.80	-60.58	-57.23	-1.78	-1.57	-13.00	-47.58	H
479.11	-64.00	-59.78	-2.40	-1.82	-13.00	-51.00	H
704.15	-40.54	-36.83	-1.48	-2.23	34.77	-75.31	H
959.26	-61.81	-57.89	-1.29	-2.63	-13.00	-48.81	H
1415.00	-64.46	-69.30	8.09	-3.25	-13.00	-51.46	H
2122.50	-62.66	-68.16	9.62	-4.12	-13.00	-49.66	H

Operation Mode: Tx / High CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Ver.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
32.91	-48.69	-21.03	-27.19	-0.47	-13.00	-35.69	V
148.34	-50.91	-42.64	-7.27	-1.00	-13.00	-37.91	V
321.00	-57.18	-53.90	-1.80	-1.48	-13.00	-44.18	V
419.94	-57.88	-54.28	-1.90	-1.70	-13.00	-44.88	V
707.06	-36.28	-32.58	-1.46	-2.24	34.77	-71.05	V
959.26	-58.48	-54.56	-1.29	-2.63	-13.00	-45.48	V
1422.00	-63.65	-68.52	8.13	-3.26	-13.00	-50.65	V
2133.00	-60.00	-65.40	9.54	-4.14	-13.00	-47.00	V

Operation Mode: Tx / High CH **Test Date:** May 7, 2021
Temperature: 23.6°C **Tested by:** Ray Li
Humidity: 64% RH **Polarity:** Hor.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
46.49	-44.44	-29.53	-14.36	-0.55	-13.00	-31.44	H
122.15	-57.07	-45.50	-10.67	-0.90	-13.00	-44.07	H
214.30	-59.10	-55.80	-2.10	-1.20	-13.00	-46.10	H
419.94	-60.40	-56.80	-1.90	-1.70	-13.00	-47.40	H
707.06	-40.46	-36.76	-1.46	-2.24	34.77	-75.23	H
959.26	-60.54	-56.62	-1.29	-2.63	-13.00	-47.54	H
1422.00	-65.46	-70.33	8.13	-3.26	-13.00	-52.46	H
2133.00	-63.05	-68.45	9.54	-4.14	-13.00	-50.05	H

- End of Test Report -