FCC RADIO TEST REPORT
FCC ID: ZLE-RG725

Product：	LTE SMARTPHONE
Trade Mark：	RugGear
Model Name：	PSM01E
Family Model：	RG725
Report No.：	S20072200103004

Prepared for

Power Idea Technology (Shenzhen) Co., Ltd.

4th Floor, A Section ,Languang Science&technology Xinxi RD,
Hi-Tech Industrial Park North, Nanshan ShenZhen, 518057 China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	Power Idea Technology (Shenzhen) Co., Ltd.
Address	:	4th Floor, A Section ,Languang Science&technology Xinxi RD, Hi-Tech Industrial Park North, Nanshan ShenZhen, 518057 China
Manufacturer's Name	:	RUGGEAR LIMITED
Address	:	RM1301,13/F WING TUCK COMM CTR 177-183 WING LOK ST SHEUNG WAN HONG KONG

Product description

Product name	:	LTE SMARTPHONE
Model and/or type reference	:	PSM01E
Family Model	:	RG725
Standards	:	FCC Part15.407
Test procedure		ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v01r01 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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Date of Test .....

Date (s) of performance of tests ..... 24 Nov. 2018 ~ 29 Dec. 2018

Date of Issue..... 12 Aug. 2020

Test Result..... **Pass**

Note: All test data of this report are based on the original test report S18112300402E004, dated by 2018-12-29.

Testing Engineer : Loren Luo

(Loren Luo)

Technical Manager : Jason Chen

(Jason Chen)

Authorized Signatory : Sam Chen

(Sam Chen)

Table of Contents

Table of Contents

Table of Contents

Revision History

Report No.	Version	Description	Issued Date
S18112300402E004	Rev.01	Initial issue of report	Dec 29, 2018
S20072200103004	Rev.02	1. Add WCDMA Band II and LTE Band II 2. Add a Battery 3. Changed camera and RAM 4. Changed Model Name	Aug 12, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS	
15.407 (a) 15.1049	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
2.1051, 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
2.1051, 15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	Subcontract test(note 2)
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) Subcontracted laboratory information:
Firm Name:
Shenzhen Huatongwei International Inspection Co., Ltd.
Designation Number:CN1181
Test Firm Registration Number: 762235
A2LA Certificate Registration Number : 3902.01

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab.	:	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.
IC-Registration		The Certificate Registration Number is 9270A-1.
FCC- Accredited		Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.		The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(＞6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE SMARTPHONE
Trade Mark	N/A
Model Name	PSM01E
FCC ID	ZLE-RG725
Product Description	<table><tr><td>Mode Supported</td><td>☒802.11a ☒802.11n(HT20) ☒802.11n(HT40) ☒802.11ac(HT20) ☒802.11ac(HT40) ☐802.11ac(HT80)</td></tr><tr><td>Data Rate</td><td>802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40):NSS1, MCS0-MCS9</td></tr><tr><td>Modulation</td><td>OFDM with BPSK/QPSK/16QAM/64QAM</td></tr><tr><td>Operating Frequency Range</td><td>☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz</td></tr><tr><td>Function:</td><td>☐Outdoor AP ☐Indoor AP ☐Fixed P2P ☒Client</td></tr><tr><td>DFS type:</td><td>☐master devices ☐Slave devices with radar detection ☒Slave devices without radar detection</td></tr><tr><td>Antenna Type</td><td>PIFA Antenna</td></tr><tr><td>Antenna Gain</td><td>0.8</td></tr></table> Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.
Ratings	Battery 1:DC 3.8V from battery or DC 5V from USB Port. Battery 2:DC 3.6V from battery or DC 5V from USB Port.
Adapter	Model: HKC0115021-2D Input: 100-240V~50/60Hz 0.5A Output: 5V⎓2A
Battery	Battery 1: DC3.80V/5000mAh(19Wh) Battery 2: DC3.6V/3120mAh(11.232Wh)
Connecting I/O Port(s)	Please refer to the User's Manual
HW Version	S955_V1.3
SW Version	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	N/A	N/A
	40	5200 MHz	46	5230 MHz		
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz		
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-2C	100	5500 MHz	102	5510 MHz		
	104	5520 MHz	110	5550 MHz		
	108	5540 MHz	118	5590 MHz		
	112	5560 MHz	126	5630 MHz		
	116	5580 MHz	134	5670 MHz		
	120	5600 MHz				
	124	5620 MHz				
	128	5640 MHz				
	132	5660 MHz				
	140	5700 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz		
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

Tx Antenna

Antenna	Antenna Type	Antenna Gain(dBi)
		5.0G
A(main)	PIFA	0.8

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	MCS0/ VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
Power Spectral Density	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
26 dB and 99% Emission Bandwidth	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	MCS0/ VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
Minimum 6 dB bandwidth	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
Band Edge Emissions	11a/n(20)/ac(20)	6 Mbps/ MCS0/ VHT1MCS0	36/40/48/52/56/64/100 /120/140/149/157/165	1
	11n(40)/ac(40)	MCS0/ VHT1MCS0	38/46/54/62/102/110 /118/134/151/159	1
Dynamic Frequency Selection(DFS)	ac(40)	VHT1MCS0	58/106	1

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

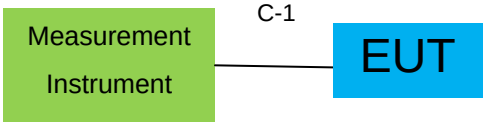
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

For AC Conducted Emission Mode

For Radiated Test Cases

For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	RF Cable	YES	NO	0.1m	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2018.04.08	2019.04.07	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2018.11.03	2019.11.02	1 year
9	Amplifier	EMC	EMC051835SE	980246	2018.08.05	2019.08.04	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2018.11.03	2019.11.02	1 year
11	Power Meter	DARE	RPR3006W	15I00041SNO84	2018.08.05	2019.08.04	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:
We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
2	LISN	R&S	ENV216	101313	2018.04.18	2019.04.19	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2018.05.19	2019.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

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

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

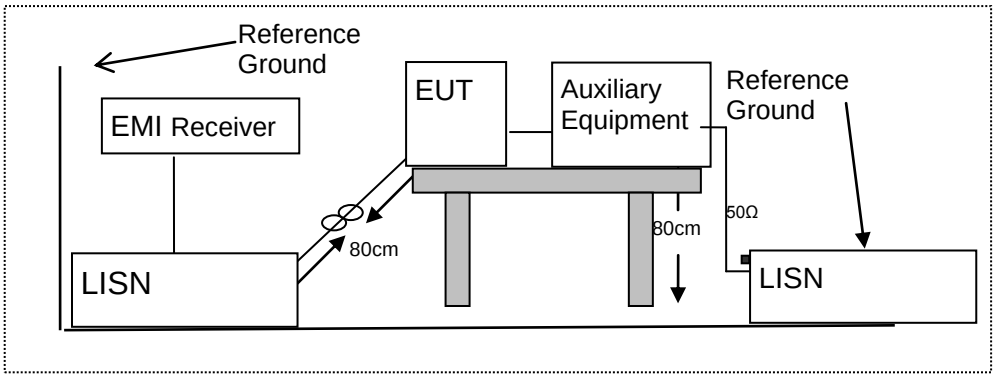
According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

3.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

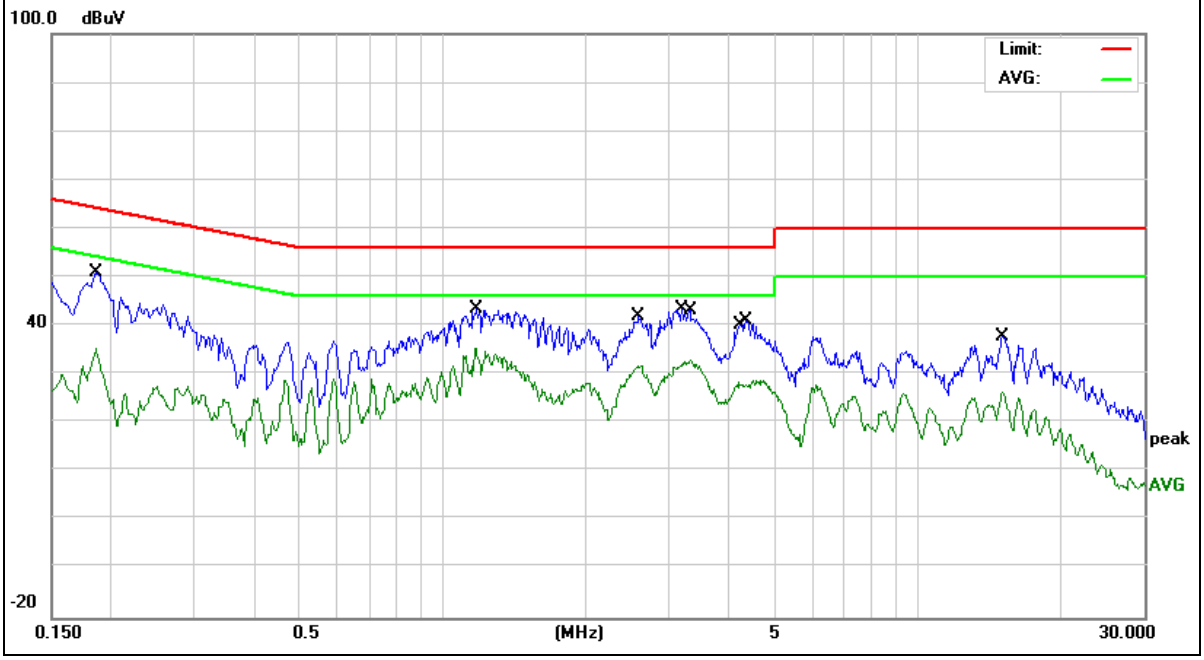
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1859	25.48	9.76	35.24	54.21	-18.97	AVG
0.1862	41.02	9.76	50.78	64.20	-13.42	QP
1.1698	25.72	9.74	35.46	46.00	-10.54	AVG
1.1818	33.69	9.74	43.43	56.00	-12.57	QP
2.5899	32.07	9.80	41.87	56.00	-14.13	QP
2.5899	22.09	9.80	31.89	46.00	-14.11	AVG
3.1979	33.68	9.83	43.51	56.00	-12.49	QP
3.326	23.00	9.84	32.84	46.00	-13.16	AVG
4.1817	18.48	9.85	28.33	46.00	-17.67	AVG
4.3459	31.04	9.86	40.90	56.00	-15.10	QP
15.1257	27.54	10.10	37.64	60.00	-22.36	QP
15.1257	16.27	10.10	26.37	50.00	-23.63	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

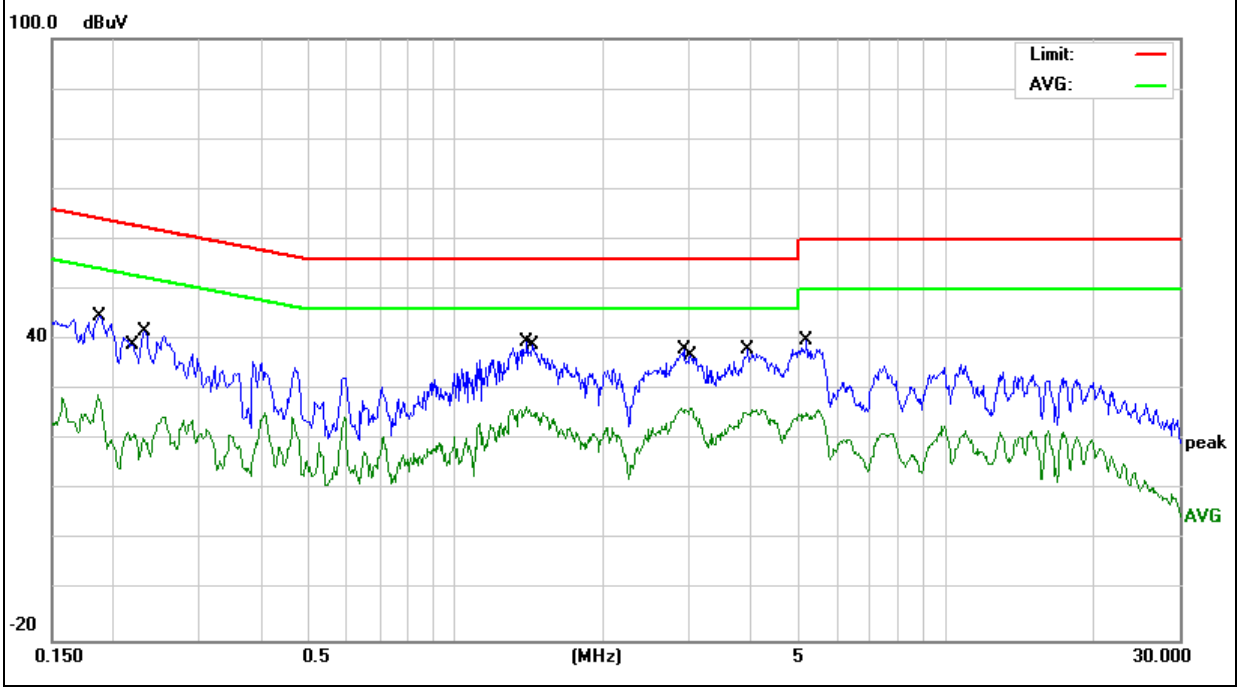


EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1859	19.29	9.73	29.02	54.21	-25.19	AVG
0.1872	34.93	9.73	44.66	64.16	-19.50	QP
0.222	11.59	9.73	21.32	52.74	-31.42	AVG
0.2316	31.80	9.74	41.54	62.39	-20.85	QP
1.3938	16.74	9.76	26.50	46.00	-19.50	AVG
1.4338	29.24	9.77	39.01	56.00	-16.99	QP
2.9219	28.31	9.86	38.17	56.00	-17.83	QP
3.0139	16.52	9.87	26.39	46.00	-19.61	AVG
3.91	15.67	9.92	25.59	46.00	-20.41	AVG
3.958	28.12	9.92	38.04	56.00	-17.96	QP
5.2057	29.79	9.94	39.73	60.00	-20.27	QP
5.2057	15.38	9.94	25.32	50.00	-24.68	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

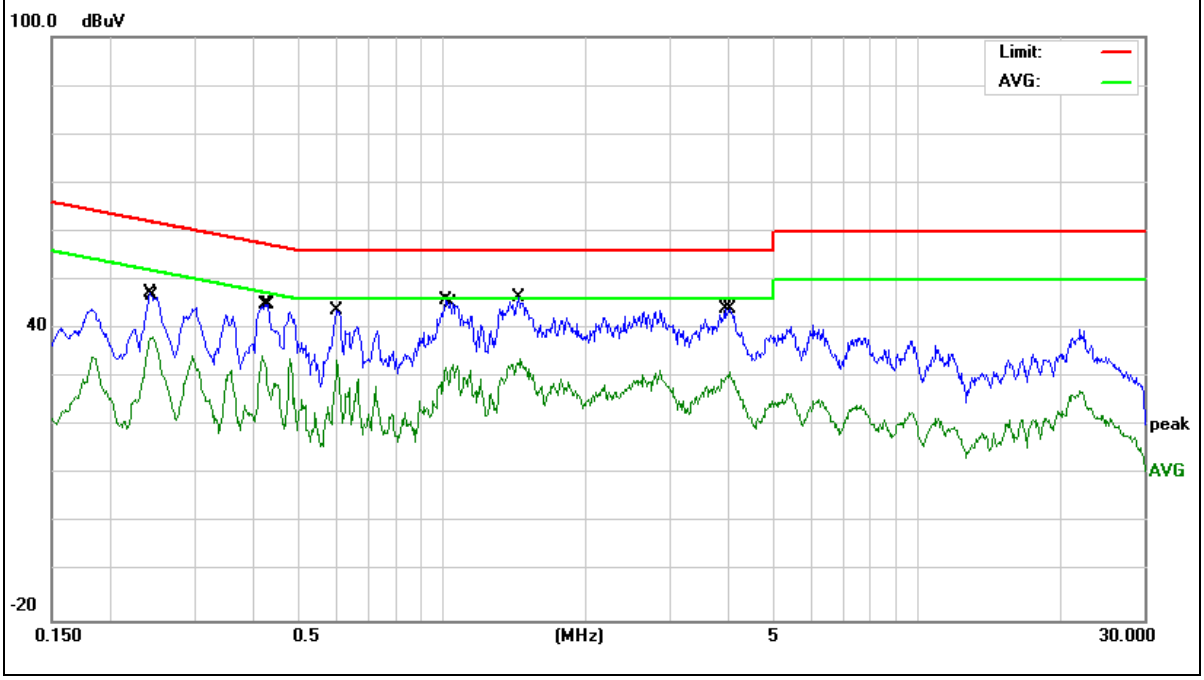


EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 240V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2419	37.62	9.74	47.36	62.03	-14.67	QP
0.2459	28.70	9.74	38.44	51.89	-13.45	AVG
0.4178	24.63	9.75	34.38	47.49	-13.11	AVG
0.4299	35.31	9.75	45.06	57.25	-12.19	QP
0.5978	34.03	9.75	43.78	56.00	-12.22	QP
0.5978	23.80	9.75	33.55	46.00	-12.45	AVG
1.018	35.95	9.75	45.70	56.00	-10.30	QP
1.054	22.88	9.75	32.63	46.00	-13.37	AVG
1.4418	36.65	9.77	46.42	56.00	-9.58	QP
1.4618	23.94	9.77	33.71	46.00	-12.29	AVG
3.93	34.22	9.92	44.14	56.00	-11.86	QP
4.022	21.16	9.92	31.08	46.00	-14.92	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

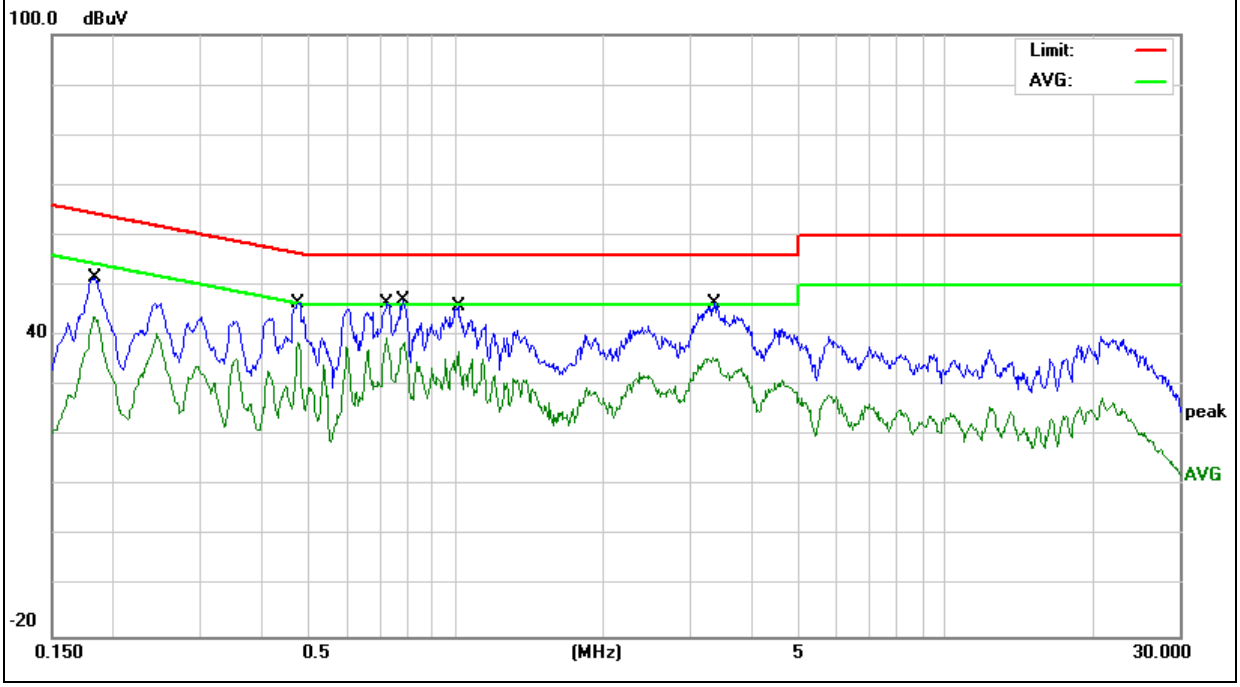


EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 12V from Adapter AC 240V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1833	41.93	9.73	51.66	64.33	-12.67	QP
0.1833	34.13	9.73	43.86	54.33	-10.47	AVG
0.4778	36.71	9.75	46.46	56.38	-9.92	QP
0.4778	28.95	9.75	38.70	46.38	-7.68	AVG
0.7258	36.69	9.75	46.44	56.00	-9.56	QP
0.7258	29.85	9.75	39.60	46.00	-6.40	AVG
0.782	37.26	9.75	47.01	56.00	-8.99	QP
0.786	28.85	9.75	38.60	46.00	-7.40	AVG
1.014	35.97	9.75	45.72	56.00	-10.28	QP
1.014	27.06	9.75	36.81	46.00	-9.19	AVG
3.346	25.65	9.89	35.54	46.00	-10.46	AVG
3.366	36.59	9.89	46.48	56.00	-9.52	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

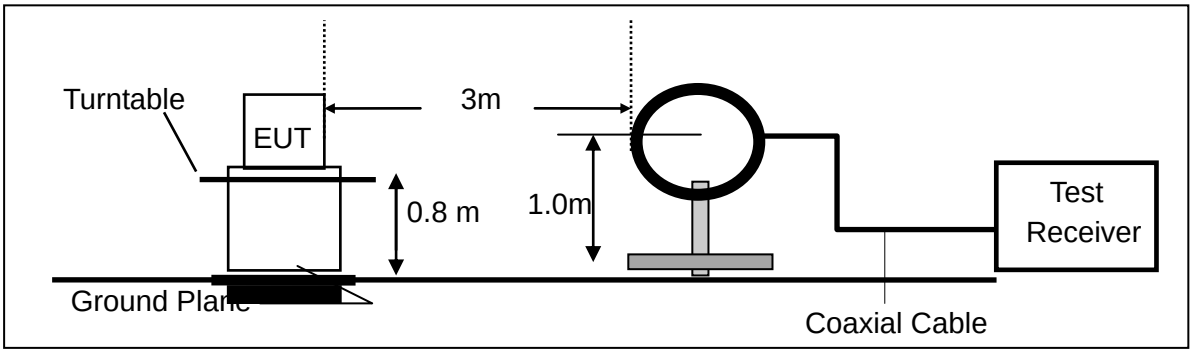
Remark :1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. For Frequency 9kHz~30MHz:
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.
For Frequency above 30MHz:
Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

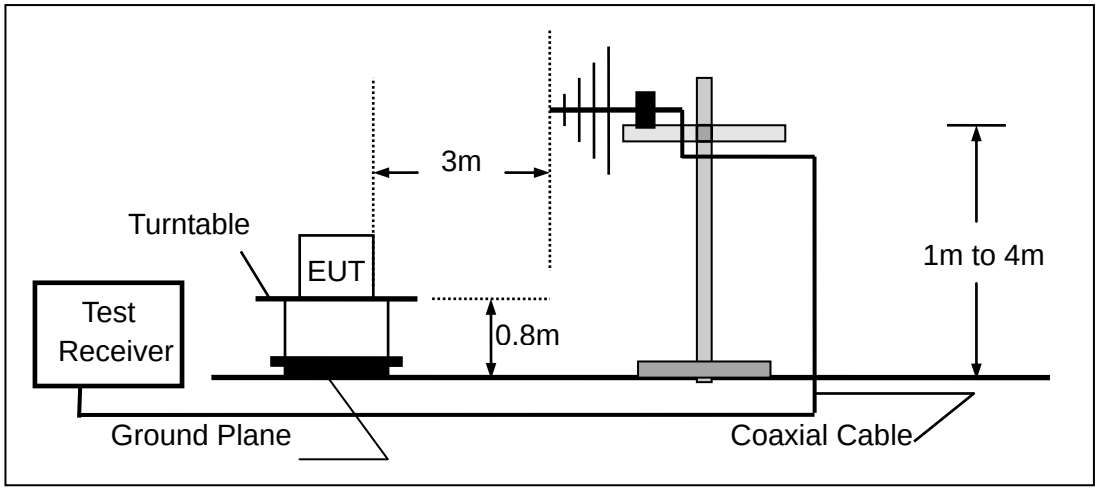
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

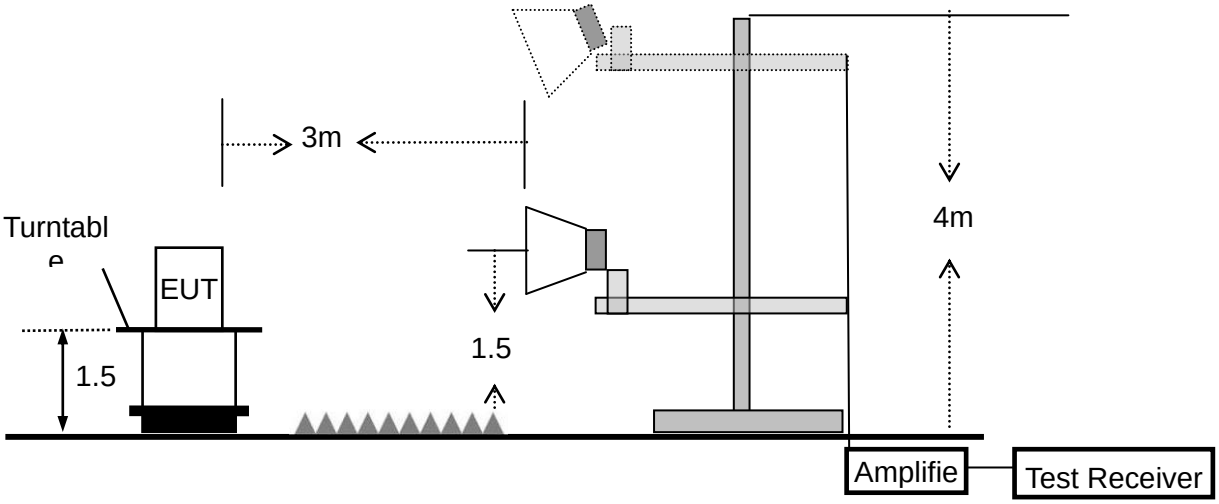
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

3.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

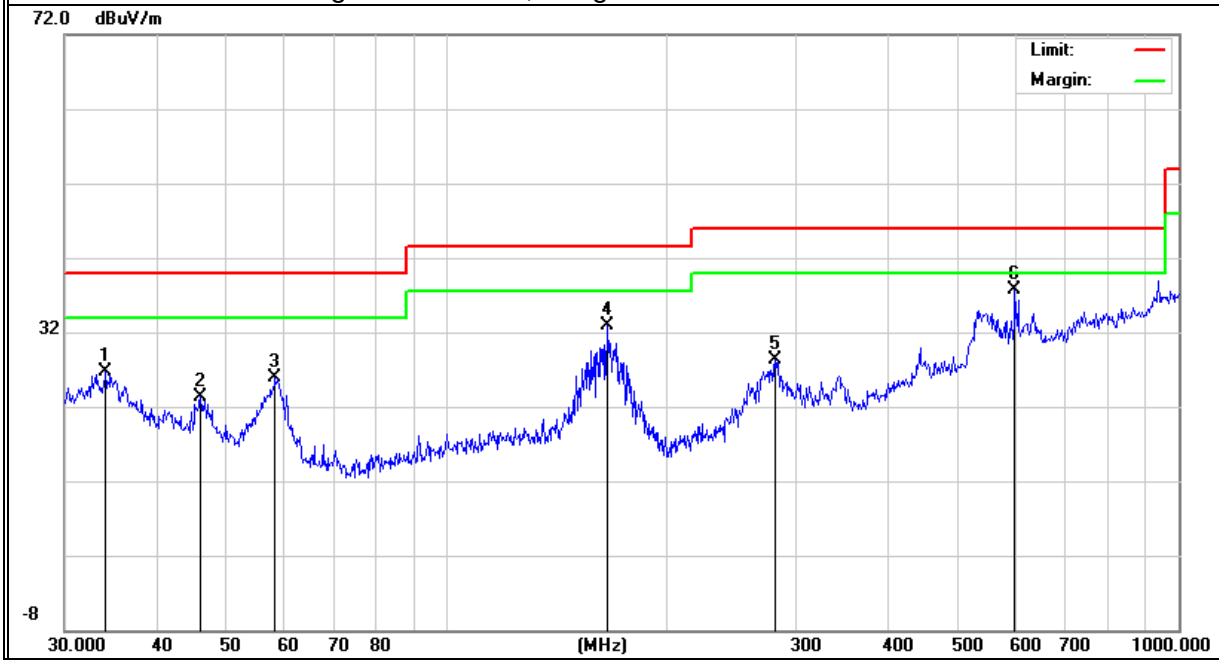
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.2G)- 802.11a (High CH)		

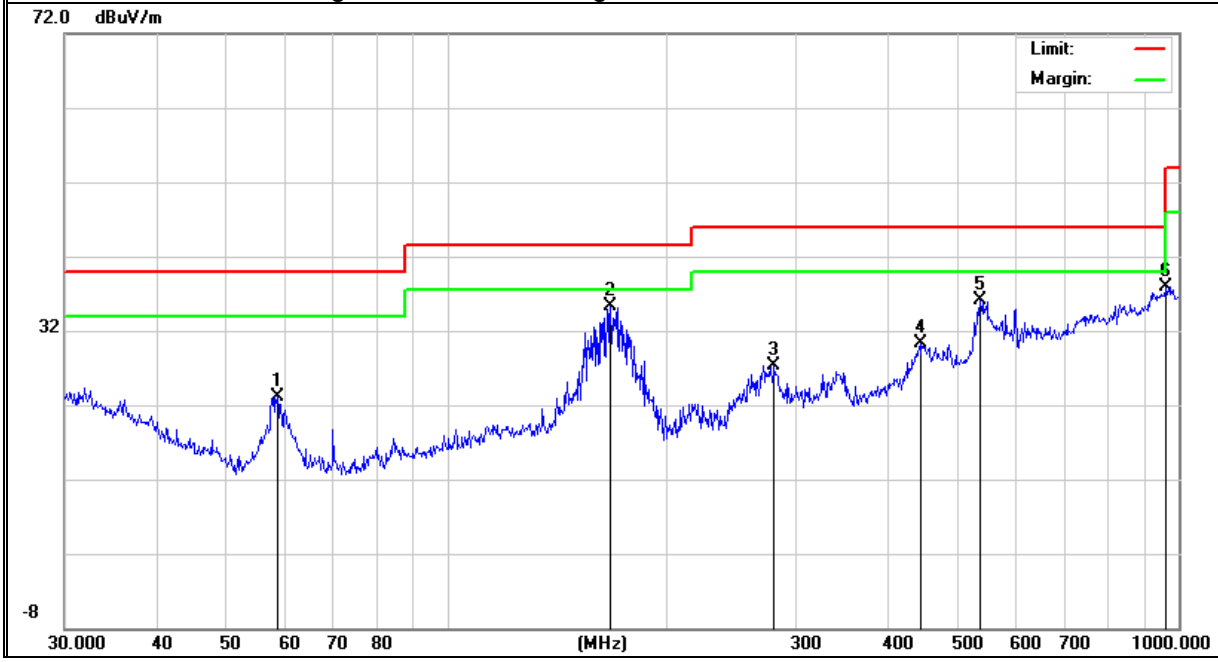
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	34.1561	9.65	17.05	26.70	40.00	-13.30	QP
V	46.0162	11.99	11.24	23.23	40.00	-16.77	QP
V	58.2030	19.21	6.72	25.93	40.00	-14.07	QP
V	165.4866	21.59	11.41	33.00	43.50	-10.50	QP
V	281.0074	11.34	17.00	28.34	46.00	-17.66	QP
V	597.2232	14.01	23.76	37.77	46.00	-8.23	QP

Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	58.6126	16.49	6.66	23.15	40.00	-16.85	QP
H	167.2366	23.96	11.39	35.35	43.50	-8.15	QP
H	280.0237	10.02	17.37	27.39	46.00	-18.61	QP
H	444.8514	10.01	20.32	30.33	46.00	-15.67	QP
H	535.7073	13.14	23.04	36.18	46.00	-9.82	QP
H	962.1621	6.79	31.17	37.96	54.00	-16.04	QP

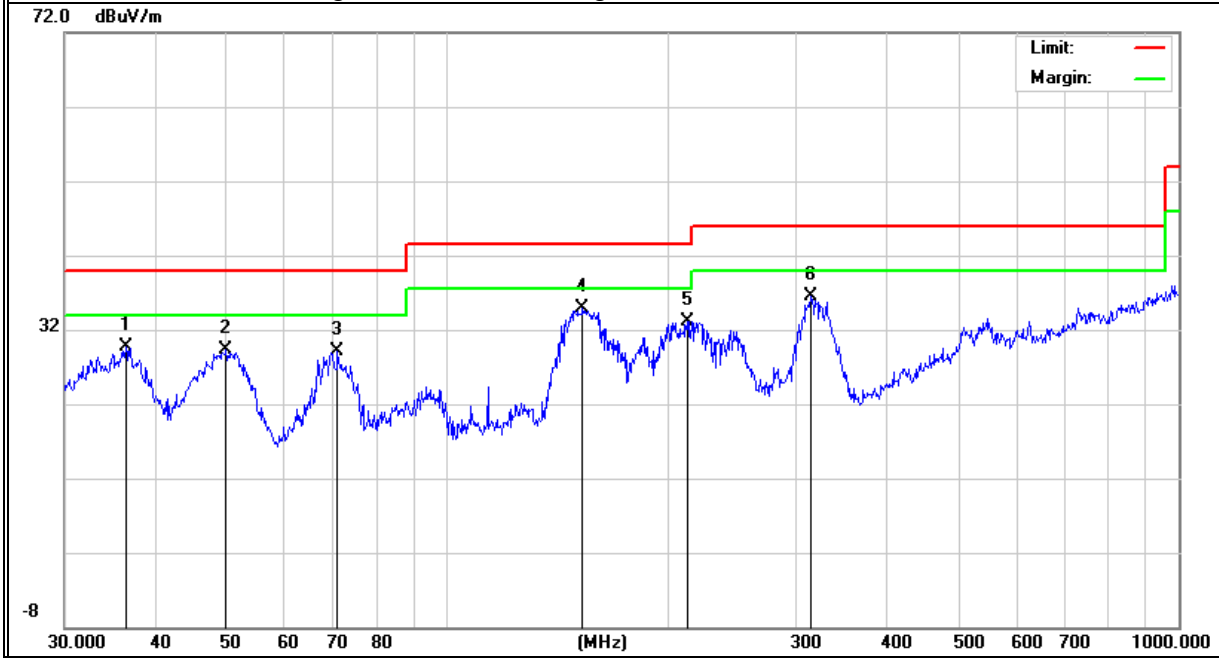
Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.3G)- 802.11a (High CH)		

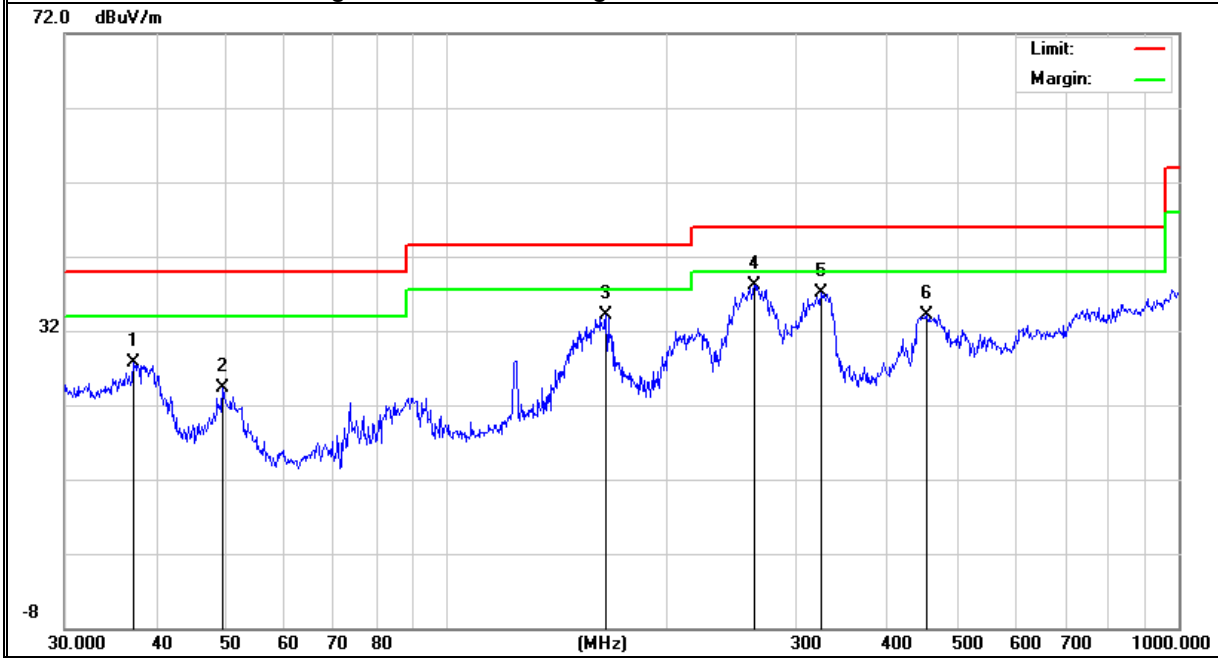
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	36.3813	13.65	16.12	29.77	40.00	-10.23	QP
V	49.8813	19.91	9.34	29.25	40.00	-10.75	QP
V	70.8315	22.29	6.89	29.18	40.00	-10.82	QP
V	153.2004	22.27	12.61	34.88	43.50	-8.62	QP
V	213.0149	22.26	10.91	33.17	43.50	-10.33	QP
V	314.3765	20.04	16.41	36.45	46.00	-9.55	QP

Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	37.2854	12.08	15.62	27.70	40.00	-12.30	QP
H	49.3594	14.34	9.89	24.23	40.00	-15.77	QP
H	164.9072	22.76	11.41	34.17	43.50	-9.33	QP
H	262.8955	22.28	15.81	38.09	46.00	-7.91	QP
H	324.4560	20.40	16.63	37.03	46.00	-8.97	QP
H	452.7196	13.58	20.49	34.07	46.00	-11.93	QP

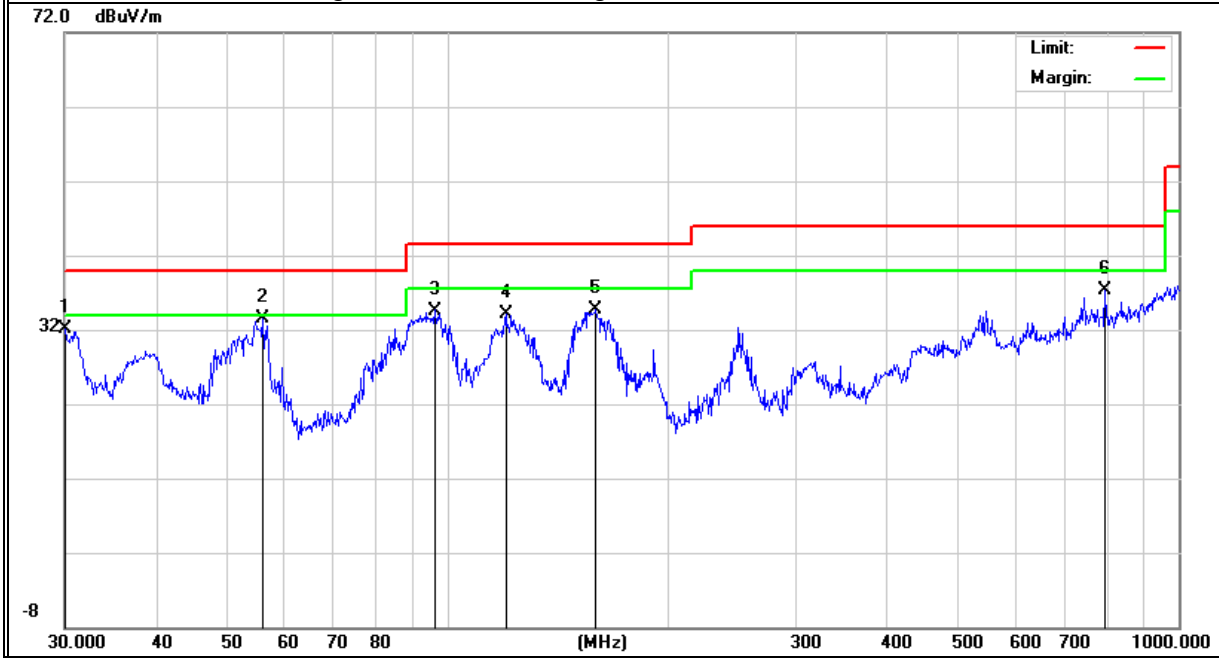
Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.6G)- 802.11a (High CH)		

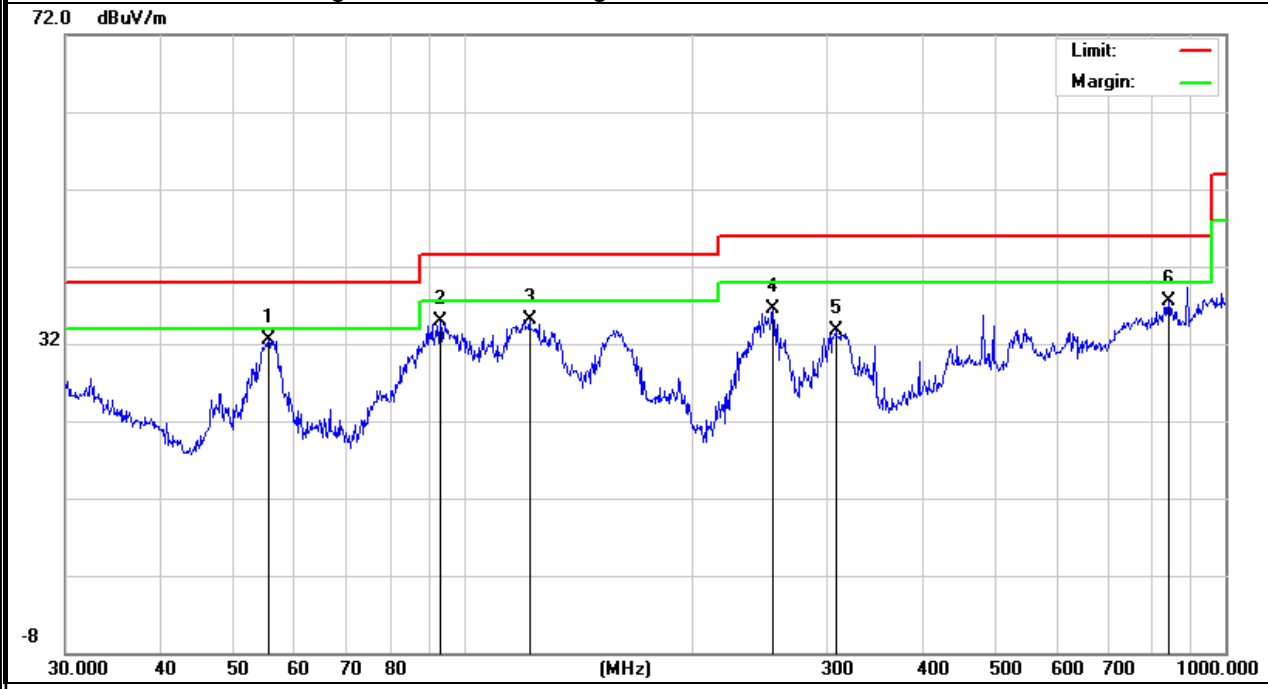
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	30.1051	13.35	18.84	32.19	40.00	-7.81	QP
V	56.0007	26.62	6.91	33.53	40.00	-6.47	QP
V	96.0986	23.52	11.08	34.60	43.50	-8.90	QP
V	120.2766	20.93	13.19	34.12	43.50	-9.38	QP
V	159.7844	23.04	11.61	34.65	43.50	-8.85	QP
V	793.3958	10.02	27.28	37.30	46.00	-8.70	QP

Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	55.4147	25.48	7.10	32.58	40.00	-7.42	QP
H	93.1132	23.94	10.99	34.93	43.50	-8.57	QP
H	121.9753	21.82	13.24	35.06	43.50	-8.44	QP
H	254.7281	21.37	15.23	36.60	46.00	-9.40	QP
H	307.8312	17.40	16.29	33.69	46.00	-12.31	QP
H	842.1295	8.97	28.62	37.59	46.00	-8.41	QP

Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

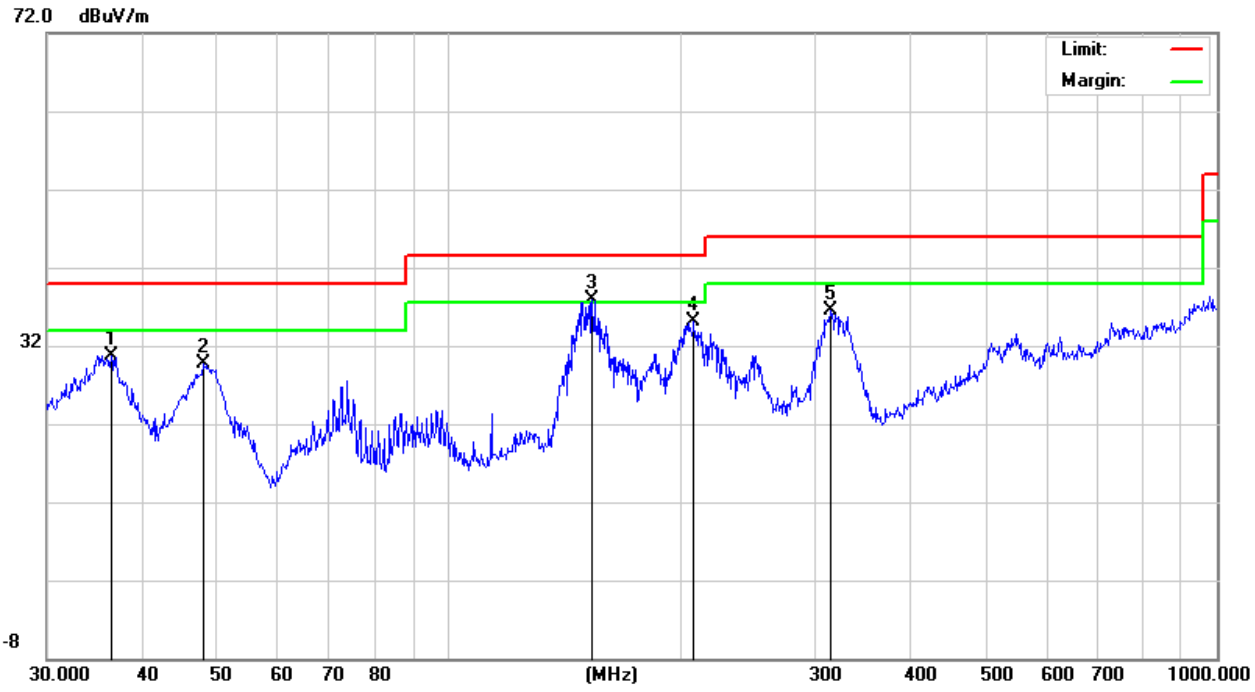


EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.8G) - 802.11a (High CH)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	36.3814	14.65	16.12	30.77	40.00	-9.23	QP
V	47.994	18.34	11.33	29.67	40.00	-10.33	QP
V	153.7385	25.28	12.58	37.86	43.50	-5.64	QP
V	208.5803	24.17	10.90	35.07	43.50	-8.43	QP
V	314.3765	20.04	16.41	36.45	46.00	-9.55	QP

Remark:

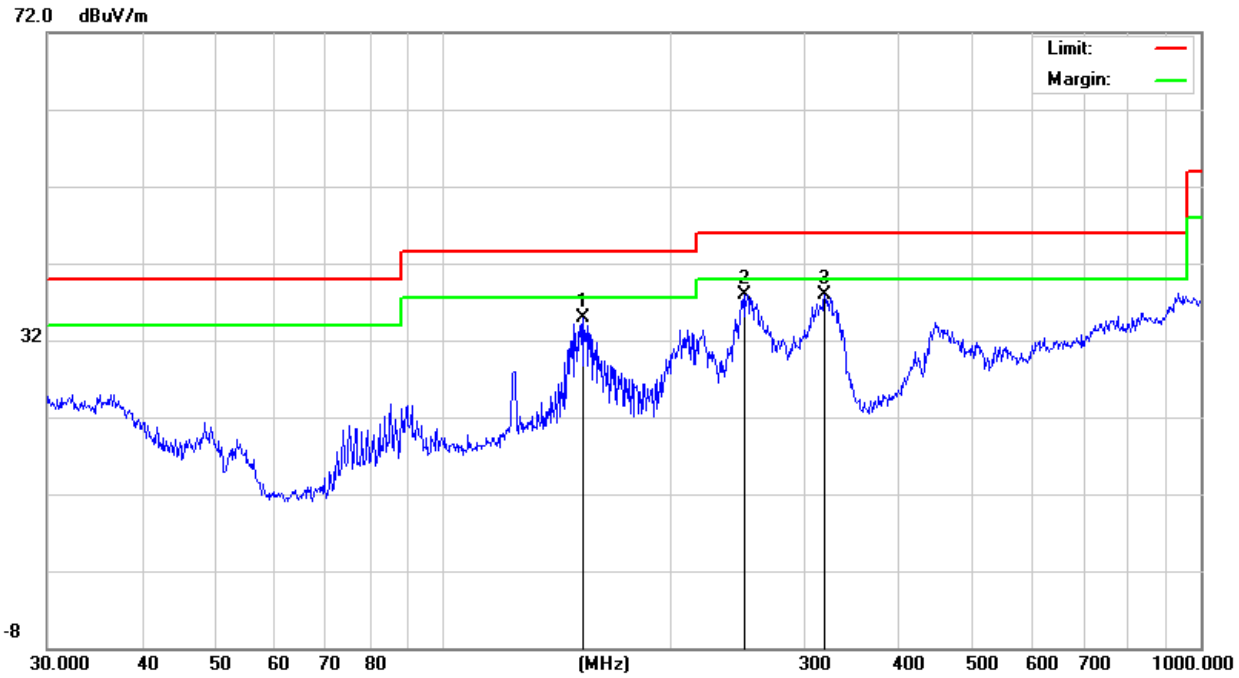
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	153.2004	22.38	12.61	34.99	43.50	-8.51	QP
H	250.3012	22.97	14.95	37.92	46.00	-8.08	QP
H	318.8170	21.38	16.49	37.87	46.00	-8.13	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



3.2.8 TEST RESULTS (1GHz-26.5GHz)

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.2G) - 802.11a _5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m	(dBuV/m	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	4435.96	60.89	5.94	35.40	44.00	58.23	74.00	-15.77	Pk
Vertical	4435.96	40.17	5.94	35.40	44.00	37.51	54.00	-16.49	AV
Vertical	10370.37	62.95	8.46	39.75	44.50	66.66	74.00	-7.34	Pk
Vertical	10370.37	39.69	8.46	39.75	44.50	43.40	54.00	-10.60	AV
Vertical	15541.11	59.86	10.12	38.80	44.10	64.68	74.00	-9.32	Pk
Vertical	15541.11	36.93	10.12	38.80	42.70	43.15	54.00	-10.85	AV
Horizontal	4434.79	62.80	5.94	35.18	44.00	59.92	74.00	-14.08	Pk
Horizontal	4434.79	42.05	5.94	35.18	44.00	39.17	54.00	-14.83	AV
Horizontal	10370.86	56.33	8.46	38.71	44.50	59.00	74.00	-15.00	Pk
Horizontal	10370.86	41.38	8.46	38.71	44.50	44.05	54.00	-9.95	AV
Horizontal	10540.37	54.85	10.12	38.38	44.10	59.25	74.00	-14.75	Pk
Horizontal	10540.37	39.41	10.12	38.38	44.10	43.81	54.00	-10.19	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	4592.77	56.93	6.48	36.35	44.05	55.71	74.00	-18.29	Pk
Vertical	4592.77	41.71	6.48	36.35	44.05	40.49	54.00	-13.51	AV
Vertical	10401.63	58.09	8.47	37.88	44.51	59.93	74.00	-14.07	Pk
Vertical	10401.63	40.50	8.47	37.88	44.51	42.34	54.00	-11.66	AV
Vertical	15601.23	58.20	10.12	38.80	44.10	63.02	74.00	-10.98	Pk
Vertical	15601.23	37.07	10.12	38.80	42.70	43.29	54.00	-10.71	AV
Horizontal	4592.82	58.04	6.48	36.37	44.05	56.84	74.00	-17.16	Pk
Horizontal	4592.82	43.07	6.48	36.37	44.05	41.87	54.00	-12.13	AV
Horizontal	10400.82	59.20	8.47	38.64	44.50	61.81	74.00	-12.19	Pk
Horizontal	10400.82	39.32	8.47	38.64	44.50	41.93	54.00	-12.07	AV
Horizontal	15600.85	57.45	10.12	38.38	44.10	61.85	74.00	-12.15	Pk
Horizontal	15600.85	39.93	10.12	38.38	44.10	44.33	54.00	-9.67	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4740.15	61.65	7.10	37.24	43.50	62.49	74.00	-11.51	Pk
Vertical	4740.15	41.22	7.10	37.24	43.50	42.06	54.00	-11.94	AV
Vertical	10481.02	58.47	8.46	37.68	44.50	60.11	74.00	-13.89	Pk
Vertical	10481.02	40.29	8.46	37.68	44.50	41.93	54.00	-12.07	AV
Vertical	15721.19	59.72	10.12	38.80	44.10	64.54	74.00	-9.46	Pk
Vertical	15721.19	36.59	10.12	38.80	42.70	42.81	54.00	-11.19	AV
Horizontal	4739.95	60.18	7.10	37.24	43.50	61.02	74.00	-12.98	Pk
Horizontal	4739.95	39.49	7.10	37.24	43.50	40.33	54.00	-13.67	AV
Horizontal	10482.64	59.31	8.46	38.57	44.50	61.84	74.00	-12.16	Pk
Horizontal	10482.64	39.58	8.46	38.57	44.50	42.11	54.00	-11.89	AV
Horizontal	15720.82	57.97	10.12	38.38	44.10	62.37	74.00	-11.63	Pk
Horizontal	15720.82	40.76	10.12	38.38	44.10	45.16	54.00	-8.84	AV

Note:"802.11n20(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.3G) - 802.11a _5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4581.32	60.24	5.44	35.40	44.00	57.09	74.00	-16.91	Pk
Vertical	4581.32	41.72	5.74	35.40	44.00	38.86	54.00	-15.14	AV
Vertical	10520.79	61.42	8.26	39.75	44.50	64.93	74.00	-9.07	Pk
Vertical	10520.79	40.93	8.01	39.75	44.50	44.19	54.00	-9.81	AV
Vertical	15780.18	59.00	10.12	38.80	44.10	63.82	74.00	-10.18	Pk
Vertical	15780.18	37.87	9.62	38.80	42.70	43.59	54.00	-10.41	AV
Horizontal	4680.28	62.39	5.57	35.18	44.00	59.13	74.00	-14.87	Pk
Horizontal	4680.28	41.65	5.74	35.18	44.00	38.57	54.00	-15.43	AV
Horizontal	11491.31	57.46	8.38	38.71	44.50	60.05	74.00	-13.95	Pk
Horizontal	11491.31	40.53	8.45	38.71	44.50	43.19	54.00	-10.81	AV
Horizontal	17236.21	55.61	9.88	38.38	44.10	59.77	74.00	-14.23	Pk
Horizontal	17236.21	38.61	9.94	38.38	44.10	42.83	54.00	-11.17	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4597.90	57.05	6.08	36.35	44.05	55.43	74.00	-18.57	Pk
Vertical	4597.90	40.68	6.39	36.35	44.05	39.37	54.00	-14.63	AV
Vertical	10560.53	57.79	8.28	37.88	44.51	59.44	74.00	-14.56	Pk
Vertical	10560.53	40.70	7.99	37.88	44.51	42.07	54.00	-11.93	AV
Vertical	15841.22	59.52	9.79	38.80	44.10	64.00	74.00	-10.00	Pk
Vertical	15841.22	37.67	9.70	38.80	42.70	43.47	54.00	-10.53	AV
Horizontal	4598.52	56.79	6.11	36.37	44.05	55.22	74.00	-18.78	Pk
Horizontal	4598.52	44.10	6.27	36.37	44.05	42.69	54.00	-11.31	AV
Horizontal	10560.65	60.27	8.33	38.64	44.50	62.74	74.00	-11.26	Pk
Horizontal	10560.65	39.17	8.07	38.64	44.50	41.37	54.00	-12.63	AV
Horizontal	15840.84	58.29	9.99	38.38	44.10	62.56	74.00	-11.44	Pk
Horizontal	15840.84	38.91	9.81	38.38	44.10	43.00	54.00	-11.00	AV
High Channel (5320 MHz)-Above 1G									
Vertical	6039.02	60.47	6.96	37.24	43.50	61.17	74.00	-12.83	Pk
Vertical	6039.02	41.47	7.07	37.24	43.50	42.27	54.00	-11.73	AV
Vertical	10641.27	59.86	8.14	37.68	44.50	61.18	74.00	-12.82	Pk
Vertical	10641.27	39.58	8.35	37.68	44.50	41.11	54.00	-12.89	AV
Vertical	15960.88	58.66	10.11	38.80	44.10	63.46	74.00	-10.54	Pk
Vertical	15960.88	36.94	9.64	38.80	42.70	42.69	54.00	-11.31	AV
Horizontal	6040.49	59.44	7.05	37.24	43.50	60.23	74.00	-13.77	Pk
Horizontal	6040.49	39.71	7.05	37.24	43.50	40.50	54.00	-13.50	AV
Horizontal	10640.94	58.64	8.20	38.57	44.50	60.91	74.00	-13.09	Pk
Horizontal	10640.94	41.39	8.03	38.57	44.50	43.49	54.00	-10.51	AV
Horizontal	15960.33	58.36	9.81	38.38	44.10	62.46	74.00	-11.54	Pk
Horizontal	15960.33	41.39	9.96	38.38	44.10	45.63	54.00	-8.37	AV

Note:"802.11n20(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.6G) -- 802.11a _5500~5700MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	4693.53	61.78	5.61	35.40	44.00	58.79	74.00	-15.21	Pk
Vertical	4693.53	42.61	5.76	35.40	44.00	39.77	54.00	-14.23	AV
Vertical	11000.43	57.55	8.24	39.75	44.50	61.04	74.00	-12.96	Pk
Vertical	11000.43	39.41	8.35	39.75	44.50	43.01	54.00	-10.99	AV
Vertical	16500.95	48.54	10.05	38.80	44.10	53.29	74.00	-20.71	Pk
Vertical	16500.95	40.29	9.65	38.80	42.70	46.04	54.00	-7.96	AV
Horizontal	4686.36	58.07	5.78	35.18	44.00	55.03	74.00	-18.97	Pk
Horizontal	4686.36	40.02	5.66	35.18	44.00	36.87	54.00	-17.13	AV
Horizontal	11000.99	55.75	8.22	38.71	44.50	58.18	74.00	-15.82	Pk
Horizontal	11000.99	39.11	8.14	38.71	44.50	41.46	54.00	-12.54	AV
Horizontal	16500.57	59.38	10.04	38.38	44.10	63.70	74.00	-10.30	Pk
Horizontal	16500.57	37.13	9.73	38.38	44.10	41.14	54.00	-12.86	AV
middle Channel (5600 MHz)-Above 1G									
Vertical	4534.08	60.21	6.29	36.35	44.05	58.79	74.00	-15.21	Pk
Vertical	4534.08	41.77	6.24	36.35	44.05	40.31	54.00	-13.69	AV
Vertical	11200.50	57.42	8.24	37.88	44.51	59.04	74.00	-14.96	Pk
Vertical	11200.50	42.05	8.13	37.88	44.51	43.54	54.00	-10.46	AV
Vertical	16800.03	57.45	9.71	38.80	44.10	61.86	74.00	-12.14	Pk
Vertical	16800.03	38.32	10.12	38.80	42.70	44.53	54.00	-9.47	AV
Horizontal	4579.13	58.00	6.44	36.37	44.05	56.76	74.00	-17.24	Pk
Horizontal	4579.13	40.94	6.13	36.37	44.05	39.40	54.00	-14.60	AV
Horizontal	11200.96	58.39	8.31	38.64	44.50	60.84	74.00	-13.16	Pk
Horizontal	11200.96	40.63	8.04	38.64	44.50	42.81	54.00	-11.19	AV
Horizontal	16800.25	59.71	10.09	38.38	44.10	64.08	74.00	-9.92	Pk
Horizontal	16800.25	39.66	9.63	38.38	44.10	43.57	54.00	-10.43	AV
High Channel (5700 MHz)-Above 1G									
Vertical	6056.90	59.54	6.79	37.24	43.50	60.07	74.00	-13.93	Pk
Vertical	6056.90	40.15	6.85	37.24	43.50	40.74	54.00	-13.26	AV
Vertical	11400.30	58.79	8.10	37.68	44.50	60.07	74.00	-13.93	Pk
Vertical	11400.30	40.14	8.23	37.68	44.50	41.55	54.00	-12.45	AV
Vertical	17100.18	59.60	9.70	38.80	44.10	64.01	74.00	-9.99	Pk
Vertical	17100.18	38.28	9.70	38.80	42.70	44.08	54.00	-9.92	AV
Horizontal	6046.67	58.40	6.74	37.24	43.50	58.88	74.00	-15.12	Pk
Horizontal	6046.67	40.27	6.74	37.24	43.50	40.75	54.00	-13.25	AV
Horizontal	11400.36	57.89	8.25	38.57	44.50	60.21	74.00	-13.79	Pk
Horizontal	11400.36	39.80	8.35	38.57	44.50	42.22	54.00	-11.78	AV
Horizontal	17100.22	56.99	9.70	38.38	44.10	60.97	74.00	-13.03	Pk
Horizontal	17100.22	39.54	9.63	38.38	44.10	43.45	54.00	-10.55	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.8G) -- 802.11a _5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	4680.45	61.70	5.94	35.40	44.00	59.04	74.00	-14.96	Pk
Vertical	4680.45	41.73	5.94	35.40	44.00	39.07	54.00	-14.93	AV
Vertical	11490.55	56.98	8.46	39.75	44.50	60.69	74.00	-13.31	Pk
Vertical	11490.55	39.97	8.46	39.75	44.50	43.68	54.00	-10.32	AV
Vertical	17236.36	48.70	10.12	38.80	44.10	53.52	74.00	-20.48	Pk
Vertical	17236.36	38.80	10.12	38.80	42.70	45.02	54.00	-8.98	AV
Horizontal	4680.21	58.42	5.94	35.18	44.00	55.54	74.00	-18.46	Pk
Horizontal	4680.21	39.48	5.94	35.18	44.00	36.60	54.00	-17.40	AV
Horizontal	11490.41	57.15	8.46	38.71	44.50	59.82	74.00	-14.18	Pk
Horizontal	11490.41	39.09	8.46	38.71	44.50	41.76	54.00	-12.24	AV
Horizontal	17235.25	58.55	10.12	38.38	44.10	62.95	74.00	-11.05	Pk
Horizontal	17235.25	38.13	10.12	38.38	44.10	42.53	54.00	-11.47	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	4593.34	60.68	6.48	36.35	44.05	59.46	74.00	-14.54	Pk
Vertical	4593.34	40.17	6.48	36.35	44.05	38.95	54.00	-15.05	AV
Vertical	11570.91	57.66	8.47	37.88	44.51	59.50	74.00	-14.50	Pk
Vertical	11570.91	40.59	8.47	37.88	44.51	42.43	54.00	-11.57	AV
Vertical	17355.64	57.89	10.12	38.80	44.10	62.71	74.00	-11.29	Pk
Vertical	17355.64	38.56	10.12	38.80	42.70	44.78	54.00	-9.22	AV
Horizontal	4593.08	58.02	6.48	36.37	44.05	56.82	74.00	-17.18	Pk
Horizontal	4593.08	41.01	6.48	36.37	44.05	39.81	54.00	-14.19	AV
Horizontal	11570.59	59.62	8.47	38.64	44.50	62.23	74.00	-11.77	Pk
Horizontal	11570.59	41.05	8.47	38.64	44.50	43.66	54.00	-10.34	AV
Horizontal	17355.95	59.14	10.12	38.38	44.10	63.54	74.00	-10.46	Pk
Horizontal	17355.95	41.32	10.12	38.38	44.10	45.72	54.00	-8.28	AV
High Channel (5825 MHz)-Above 1G									
Vertical	6039.79	60.51	7.10	37.24	43.50	61.35	74.00	-12.65	Pk
Vertical	6039.79	39.90	7.10	37.24	43.50	40.74	54.00	-13.26	AV
Vertical	11652.65	59.23	8.46	37.68	44.50	60.87	74.00	-13.13	Pk
Vertical	11652.65	40.29	8.46	37.68	44.50	41.93	54.00	-12.07	AV
Vertical	17473.88	58.53	10.12	38.80	44.10	63.35	74.00	-10.65	Pk
Vertical	17473.88	39.21	10.12	38.80	42.70	45.43	54.00	-8.57	AV
Horizontal	6039.73	57.75	7.10	37.24	43.50	58.59	74.00	-15.41	Pk
Horizontal	6039.73	41.54	7.10	37.24	43.50	42.38	54.00	-11.62	AV
Horizontal	11652.51	59.09	8.46	38.57	44.50	61.62	74.00	-12.38	Pk
Horizontal	11652.51	39.91	8.46	38.57	44.50	42.44	54.00	-11.56	AV
Horizontal	17475.52	56.64	10.12	38.38	44.10	61.04	74.00	-12.96	Pk
Horizontal	17475.52	39.09	10.12	38.38	44.10	43.49	54.00	-10.51	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

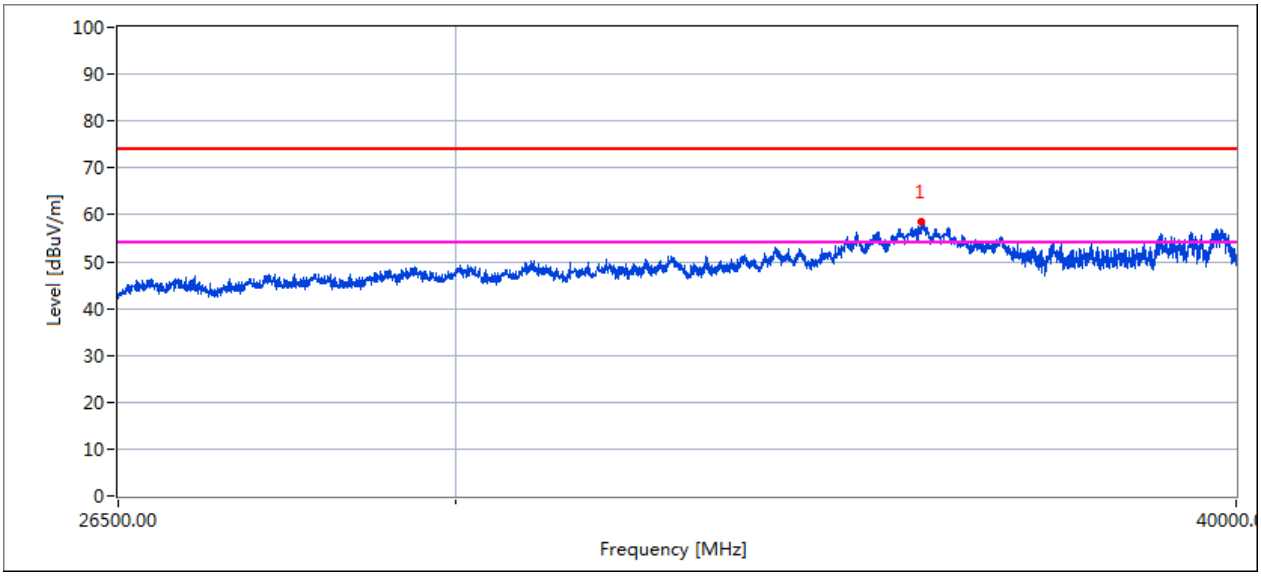
3.2.9 TEST RESULTS (26.5GHZ-40GHZ)

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.2G)-802.11a 5180MHz~5240MHz , TX (5.3G)-802.11a 5250MHz~5350MHz TX (5.6G)-802.11a 5470MHz~5725MHz TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G

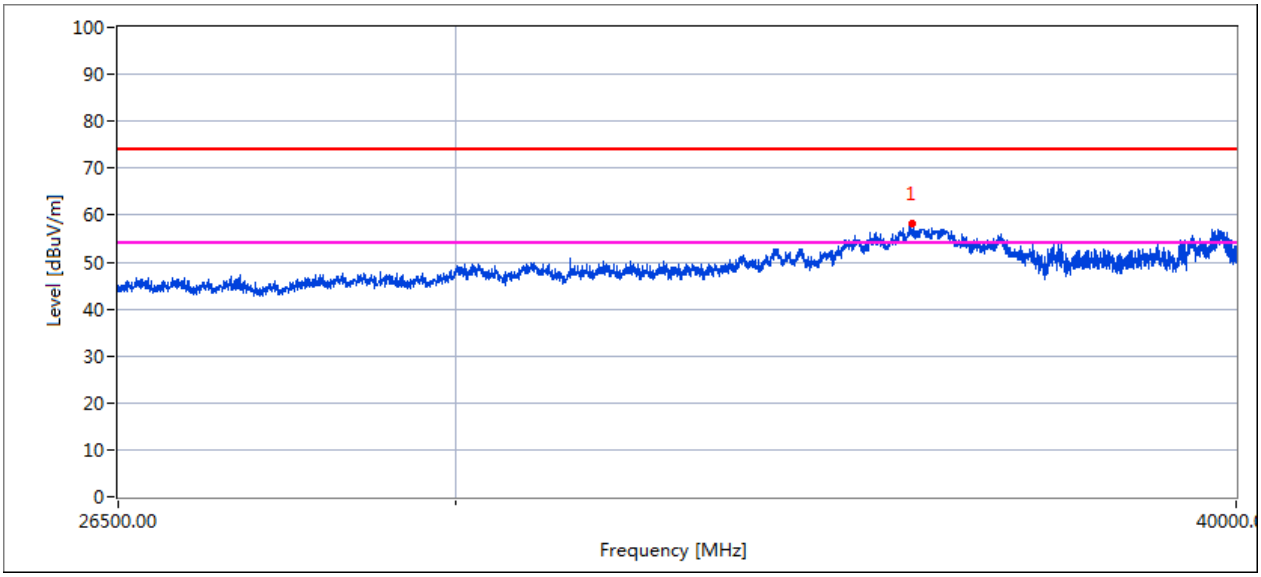
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35716.438	58.7	55.5	74.0	18.5
35716.438	44.3	43.4	54.0	10.6

Vertical

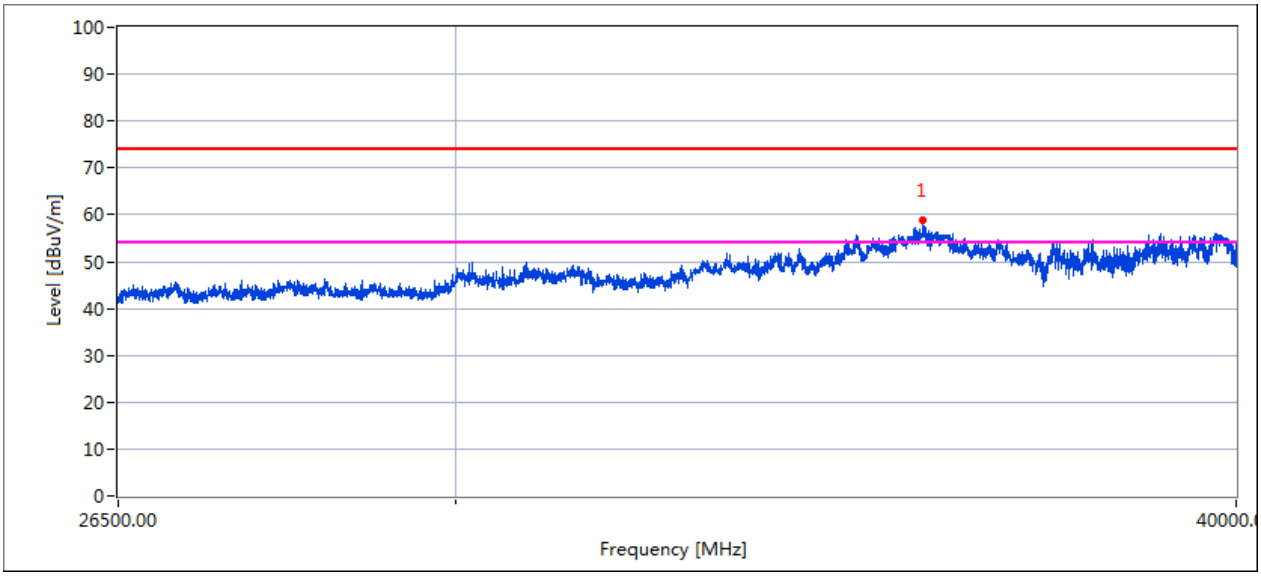


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35463.336	58.5	54.7	74.0	19.3
35463.336	45.8	43.1	54.0	10.9

High Channel (5240 MHz)-Above 1G

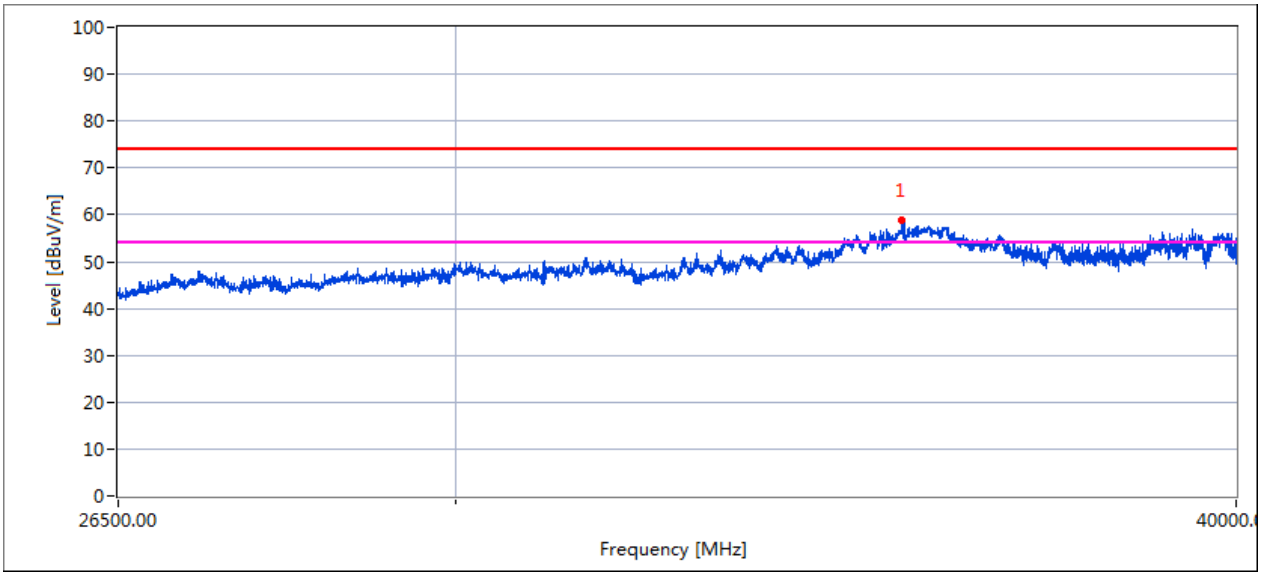
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35624.318	58.6	55.6	74.0	18.4
35624.318	42.3	42.1	54.0	11.9

Vertical

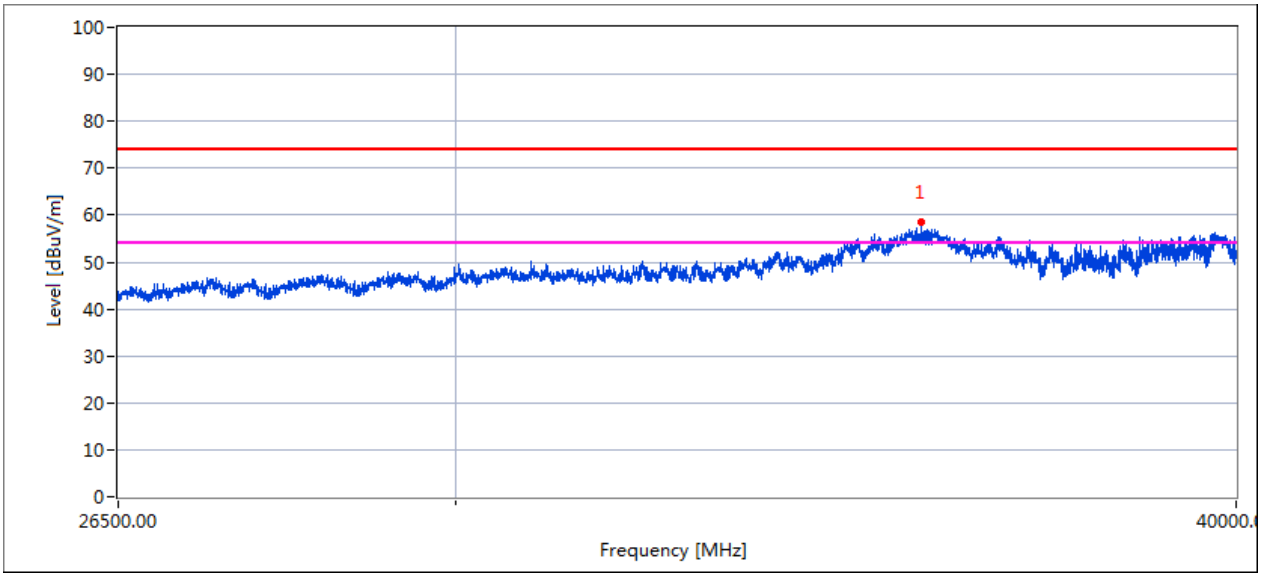


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35715.496	59.4	57.4	74.0	16.6
35715.496	43.2	43.2	54.0	10.8

Low Channel (5260 MHz)-Above 1G

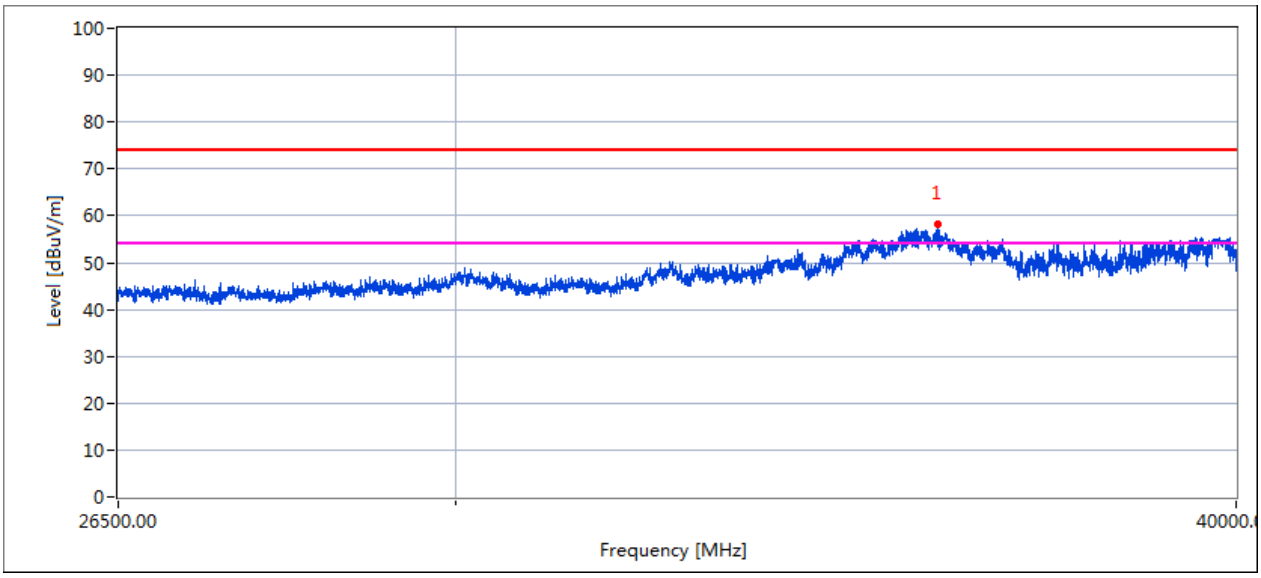
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35637.324	58.3	48.3	74.0	25.7
35637.324	42.3	43.1	54.0	10.9

Vertical

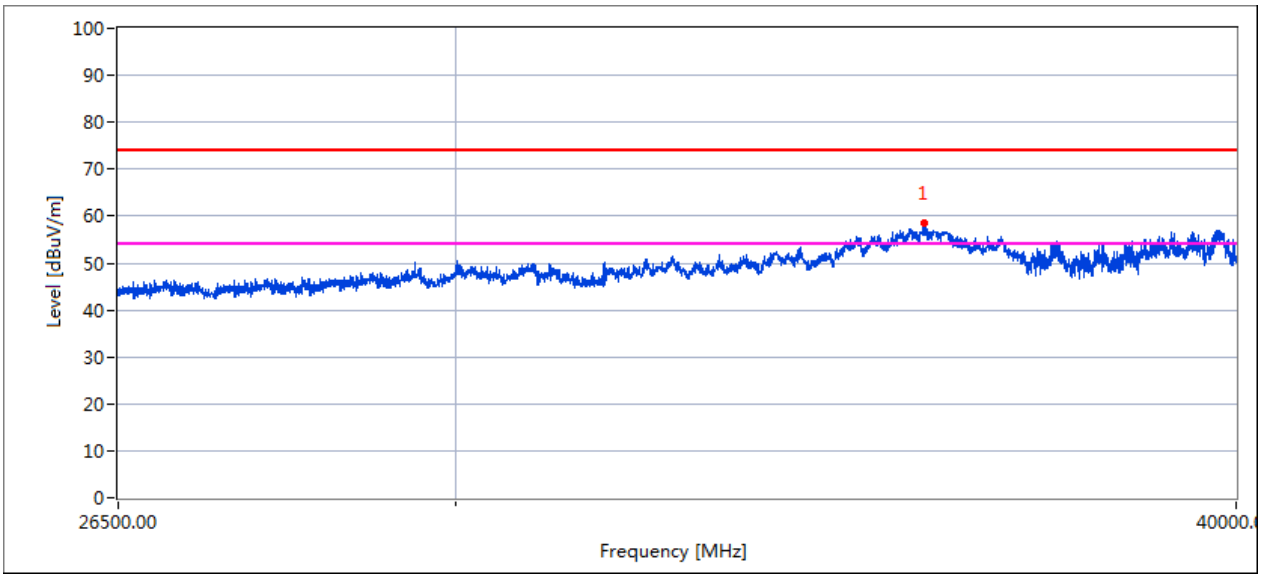


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35635.261	58.5	54.2	74.0	19.8
35635.261	42.4	42.3	54.0	11.7

High Channel (5320 MHz)-Above 1G

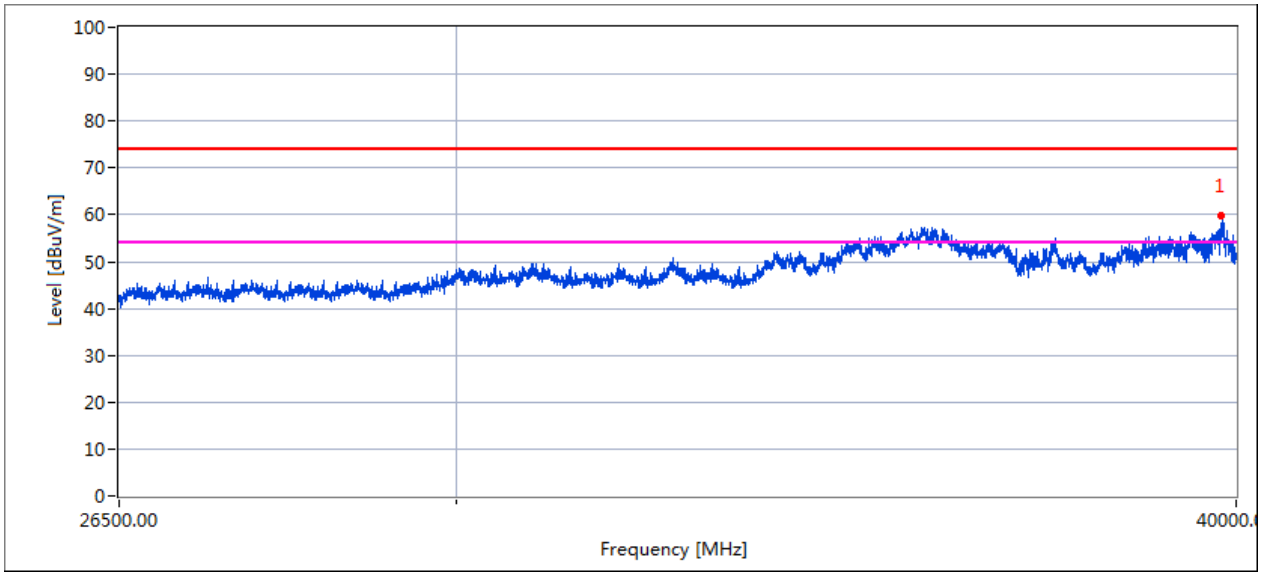
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35471.259	58.4	57.1	74.0	16.9
35471.259	43.6	43.4	54.0	10.6

Vertical

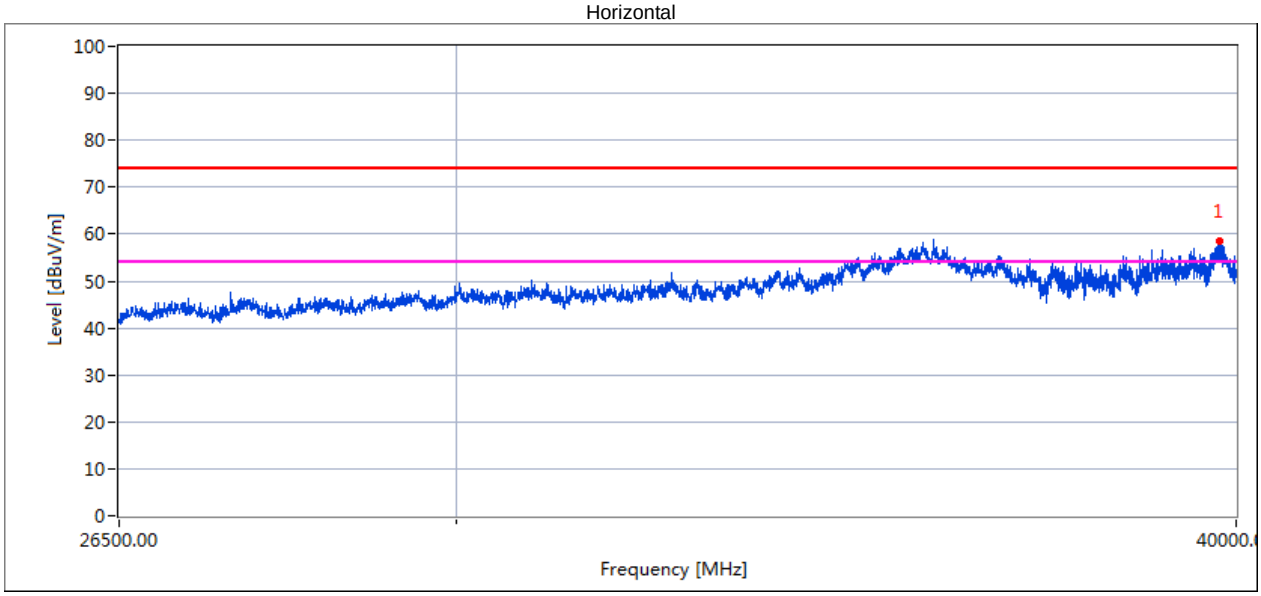


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39759.547	58.3	58.1	74.0	15.9
39759.547	43.2	43.2	54.0	10.8

Low Channel (5500 MHz)-Above 1G

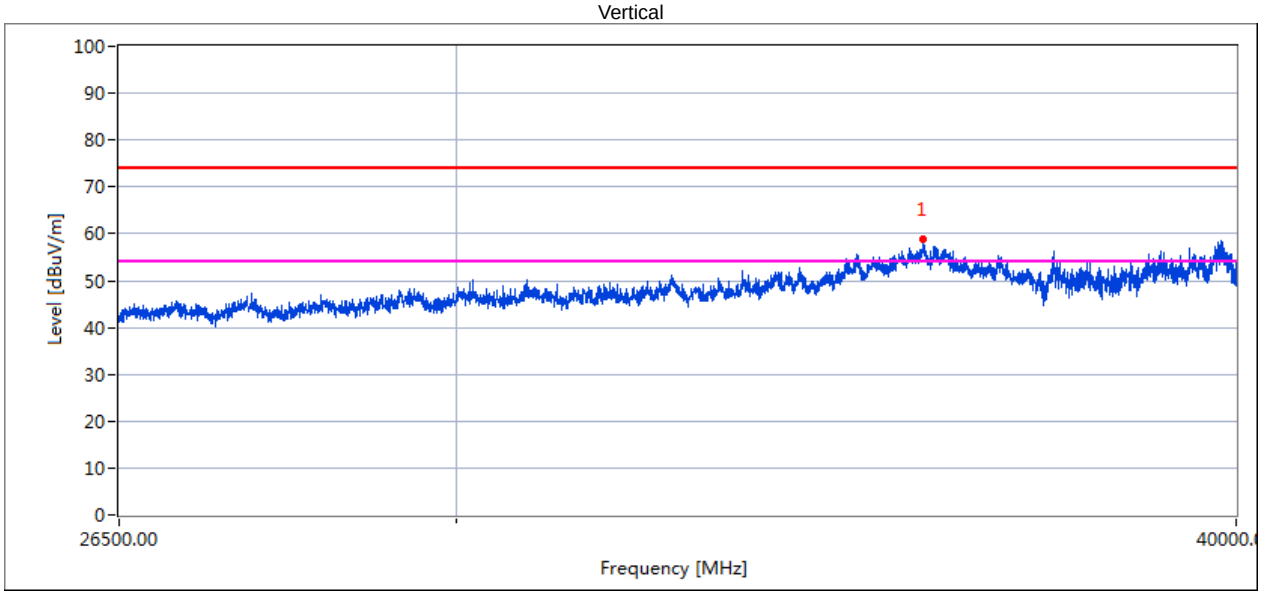
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39724.175	58.4	58.0	74.0	16.0
39724.175	43.5	42.8	54.0	11.2

Vertical

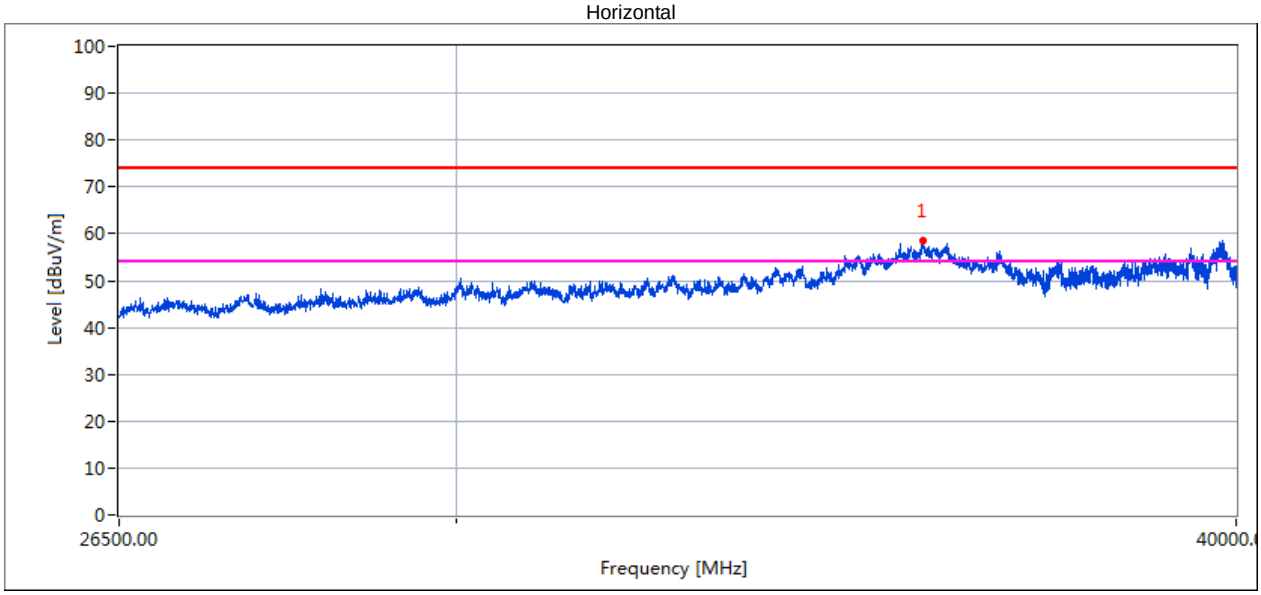


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35642.301	58.7	56.3	74	17.7
35642.301	43.3	42.3	54.0	11.7

High Channel (5700 MHz)-Above 1G

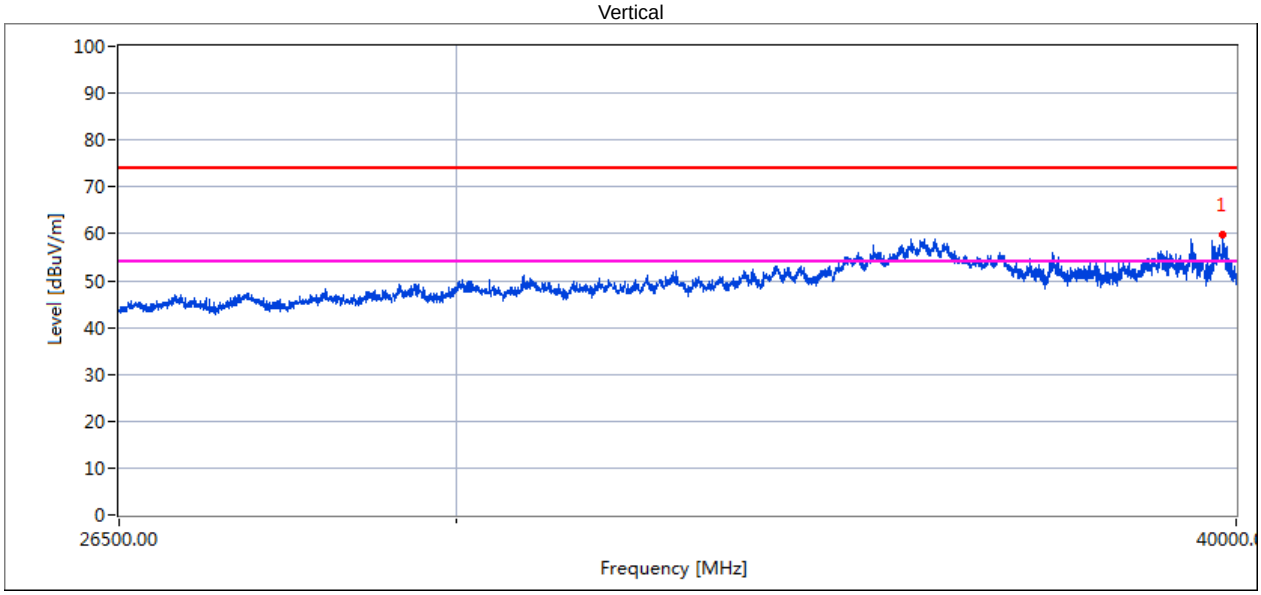
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35641.711	58.6	56.1	74.0	17.9
35641.711	44.3	43.2	54.0	10.8

Vertical

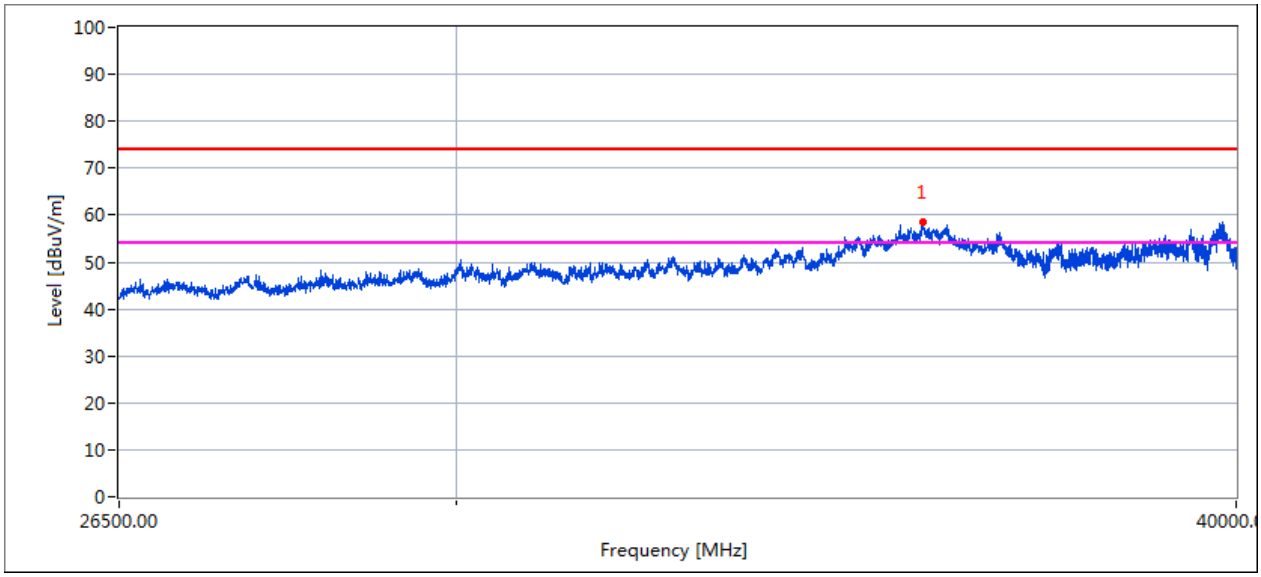


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39797.630	59.7	55.4	74.0	18.6
39797.630	44.7	43.4	54.0	10.6

Low Channel (5745 MHz)-Above 1G

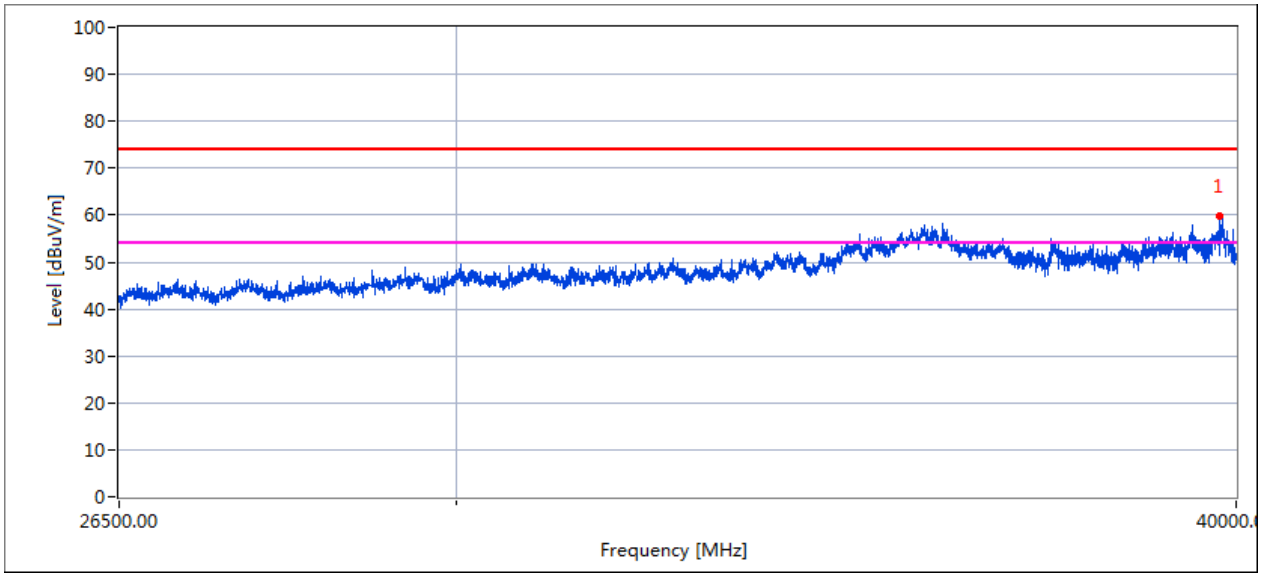
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35613.673	58.3	55.7	74.0	18.3
35613.673	43.7	42.4	54	11.6

Vertical

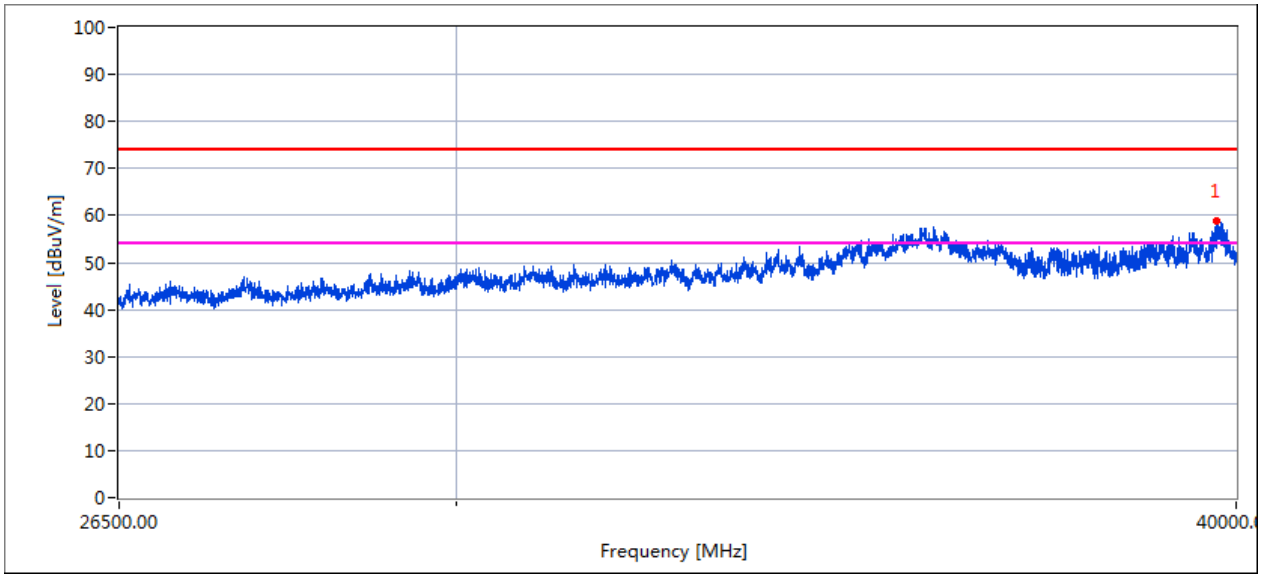


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39753.375	59.9	57.5	74.0	16.5
39753.375	44.5	43.8	54.0	10.2

High Channel (5825 MHz)-Above 1G

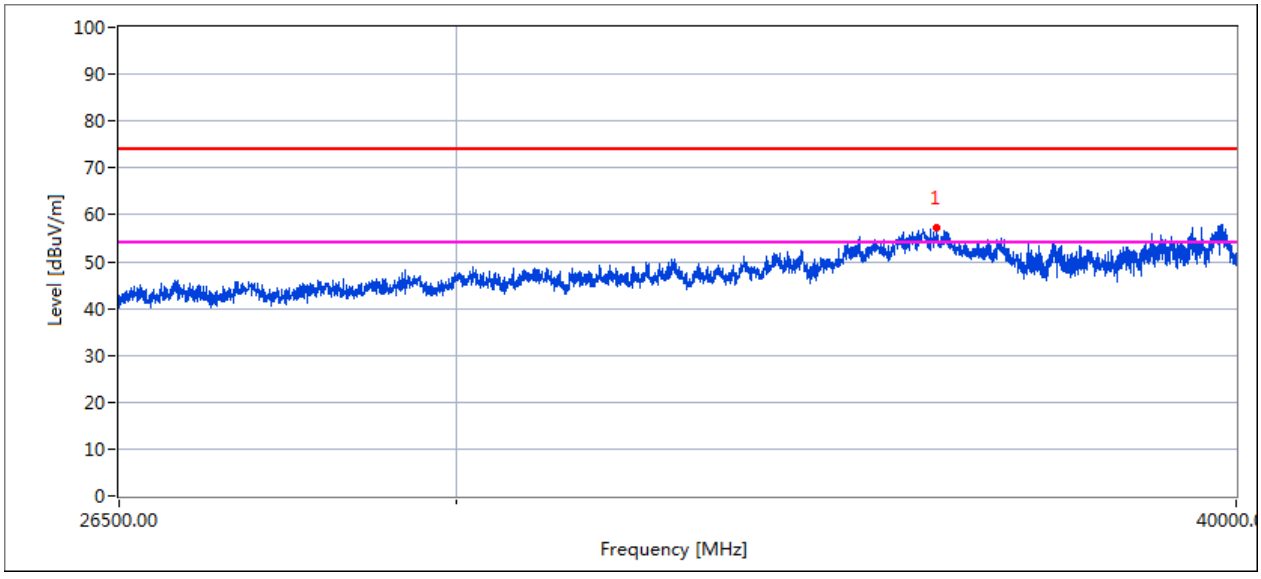
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39712.914	59.0	53.0	74.0	21.0
39712.914	44.2	43.7	54.0	10.3

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35811.975	57.2	53.3	74.0	20.7
35811.975	43.6	43.1	54.0	10.9

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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4.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

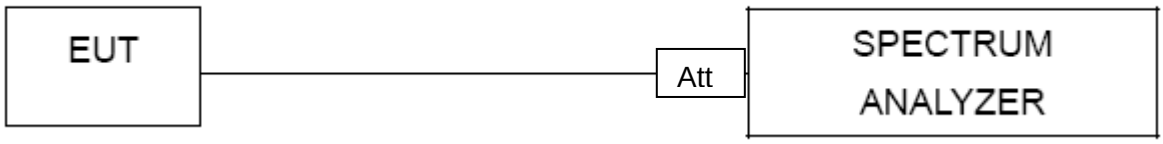
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

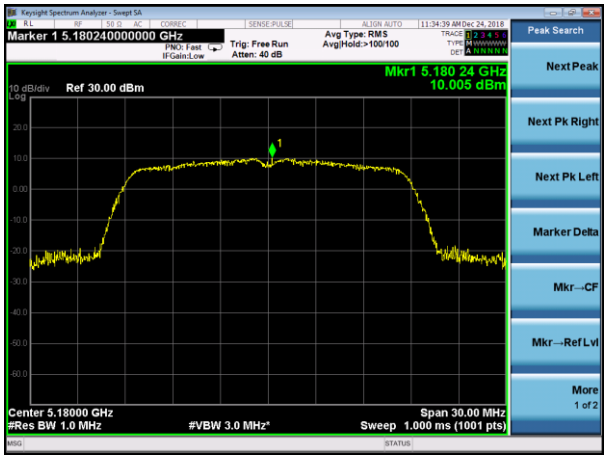
4.6 TEST RESULTS

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 1 (5150-5250MHz)		

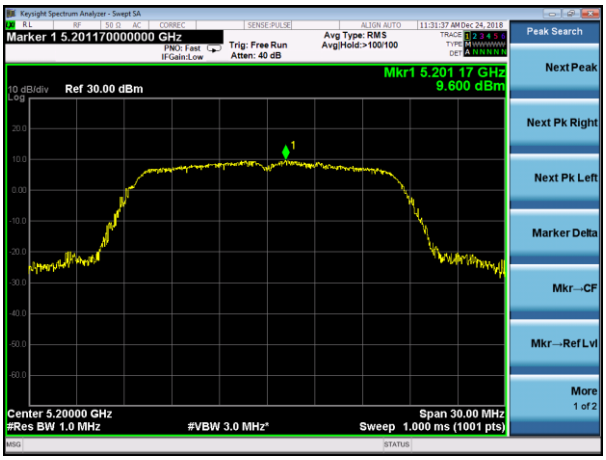
Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	9.996	11	PASS
	5200 MHz	9.600	11	PASS
	5240 MHz	10.365	11	PASS
802.11 n20	5180 MHz	10.005	11	PASS
	5200 MHz	9.433	11	PASS
	5240 MHz	9.499	11	PASS
802.11 n40	5190 MHz	6.658	11	PASS
	5230 MHz	5.815	11	PASS
802.11 ac20	5180 MHz	9.995	11	PASS
	5200 MHz	9.877	11	PASS
	5240 MHz	9.632	11	PASS
802.11 ac40	5190 MHz	6.555	11	PASS
	5230 MHz	5.942	11	PASS

(802.11a) PSD plot on channel 36

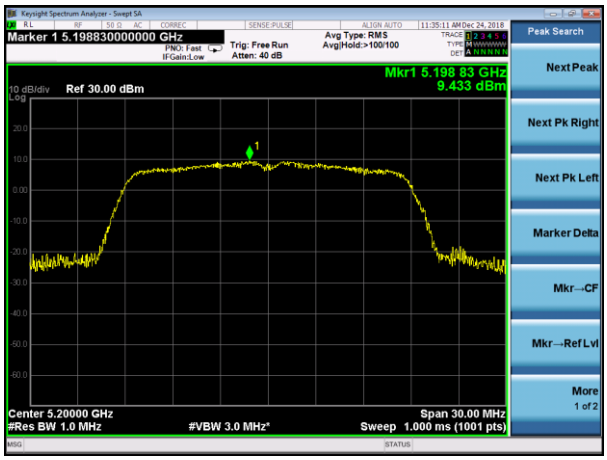
(802.11n20) PSD plot on channel 36



(802.11a) PSD plot on channel 40



(802.11n20) PSD plot on channel 40

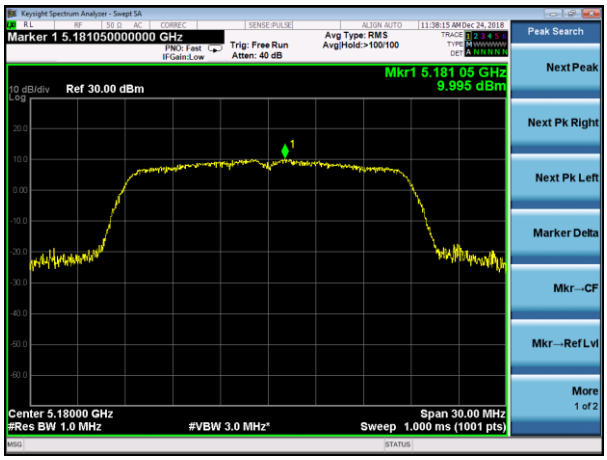


(802.11a) PSD plot on channel 48

(802.11n20) PSD plot on channel 48

(802.11n40) PSD plot on channel 38

(802.11ac20) PSD plot on channel 36

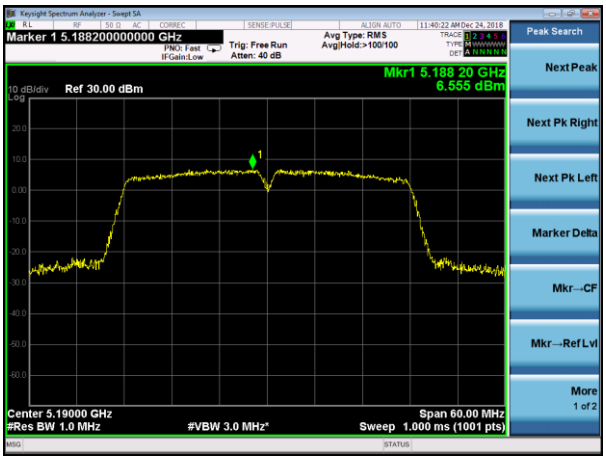


(802.11n40) PSD plot on channel 46

(802.11ac20) PSD plot on channel 40

(802.11ac20) PSD plot on channel 48

(802.11ac40) PSD plot on channel 38



(802.11ac40) PSD plot on channel 46

EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 2A (5250-5350MHz)		

Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5260 MHz	10.212	11	PASS
	5280 MHz	9.759	11	PASS
	5320 MHz	10.402	11	PASS
802.11 n20	5260 MHz	10.131	11	PASS
	5280 MHz	9.835	11	PASS
	5320 MHz	10.276	11	PASS
802.11 n40	5270 MHz	6.725	11	PASS
	5310 MHz	7.116	11	PASS
802.11 ac20	5260 MHz	10.069	11	PASS
	5280 MHz	9.941	11	PASS
	5320 MHz	9.345	11	PASS
802.11 ac40	5270 MHz	5.890	11	PASS
	5310 MHz	6.665	11	PASS

(802.11a) PSD plot on channel 52

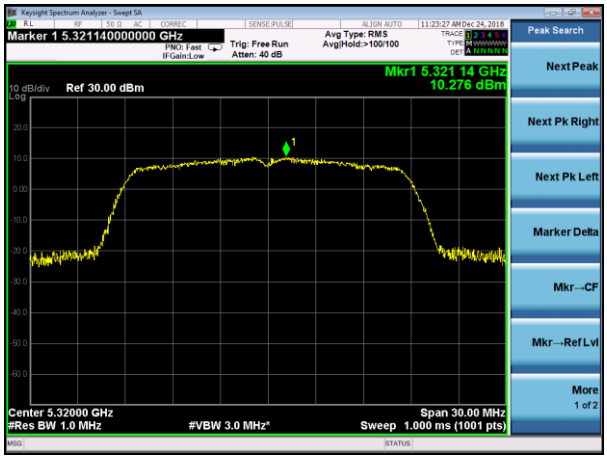
(802.11n20) PSD plot on channel 52

(802.11a) PSD plot on channel 56

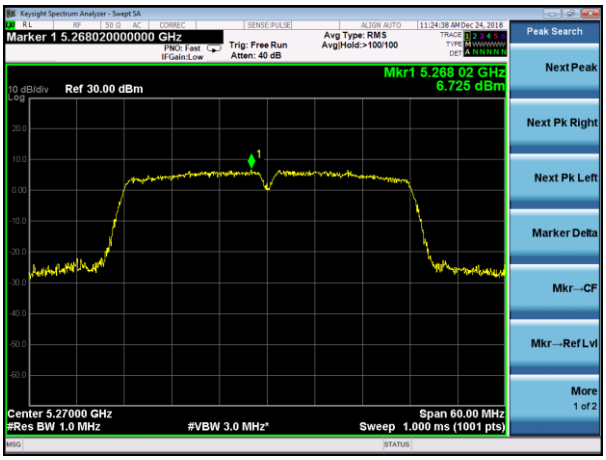
(802.11n20) PSD plot on channel 56

(802.11a) PSD plot on channel 64

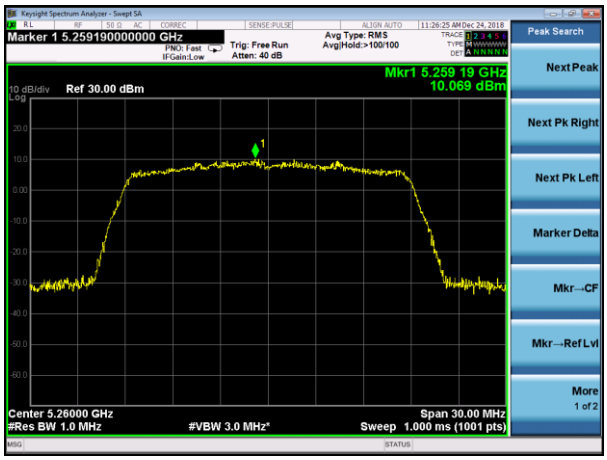
(802.11n20) PSD plot on channel 64



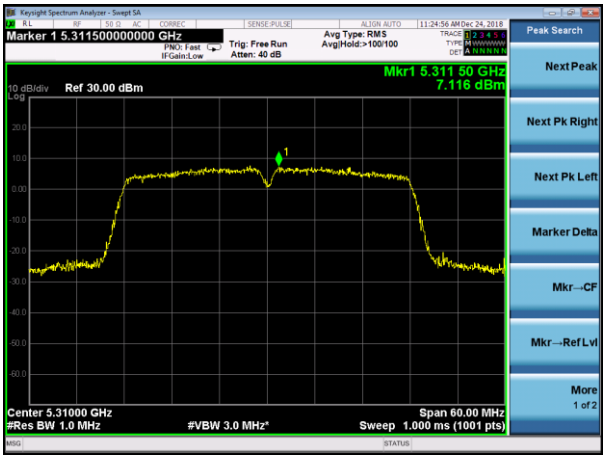
(802.11n40) PSD plot on channel 54



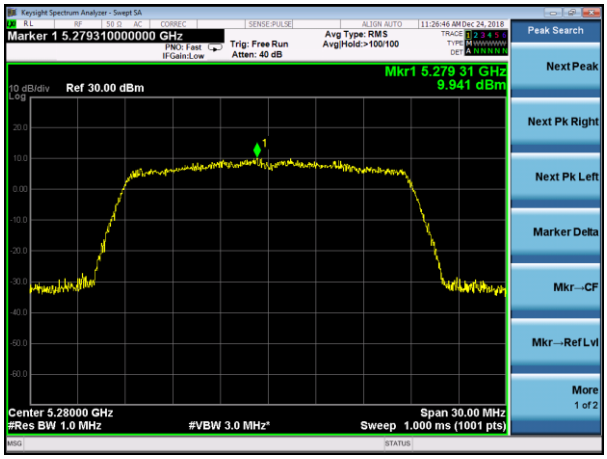
(802.11ac20) PSD plot on channel 52



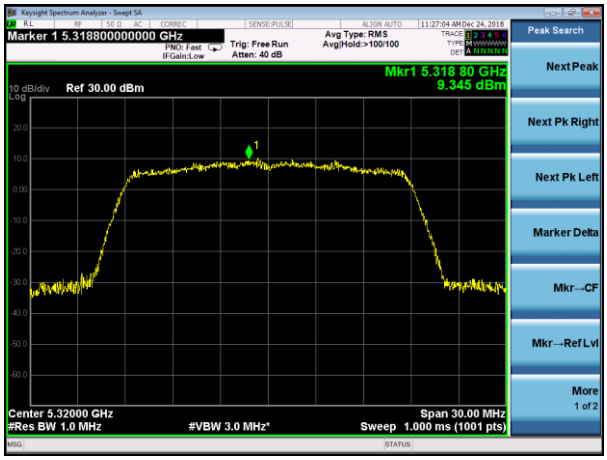
(802.11n40) PSD plot on channel 62



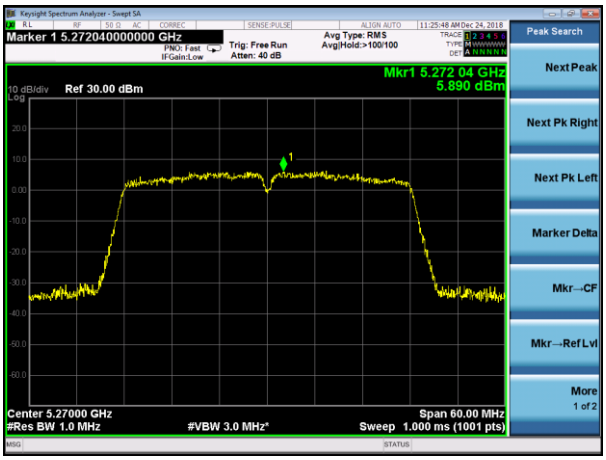
(802.11ac20) PSD plot on channel 56



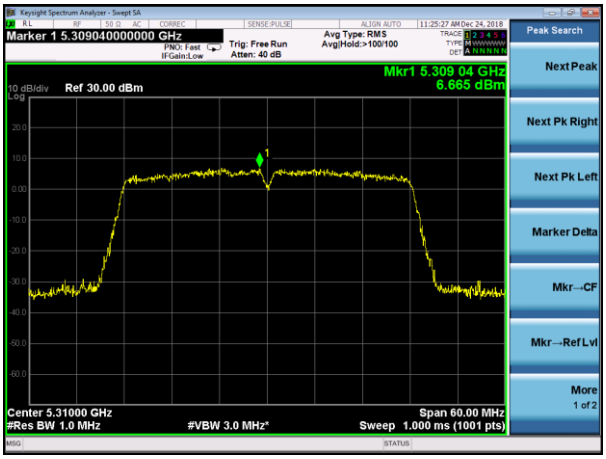
(802.11ac20) PSD plot on channel 64



(802.11ac40) PSD plot on channel 54



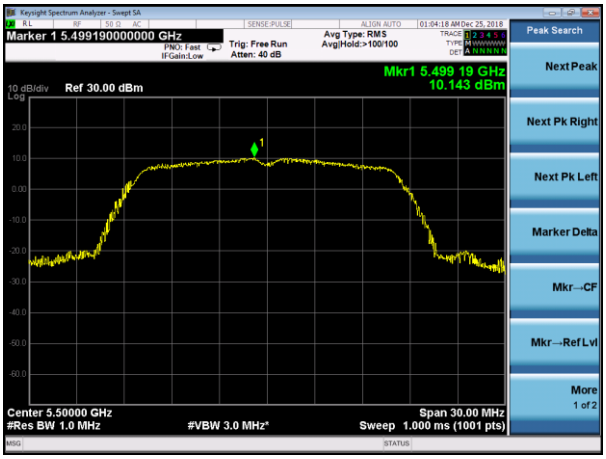
(802.11ac40) PSD plot on channel 62



EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 2C (5470-5725MHz)		

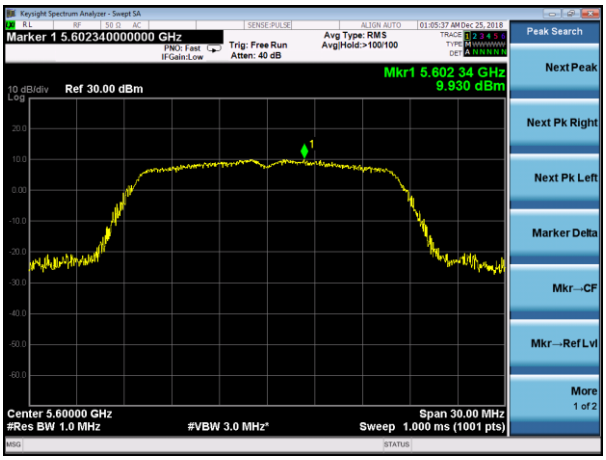
Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5500 MHz	10.143	11	PASS
	5600 MHz	9.930	11	PASS
	5700 MHz	9.918	11	PASS
802.11 n20	5500 MHz	9.865	11	PASS
	5600 MHz	9.399	11	PASS
	5700 MHz	10.394	11	PASS
802.11 n40	5510 MHz	7.297	11	PASS
	5590 MHz	6.395	11	PASS
	5670 MHz	6.143	11	PASS
802.11 ac20	5500 MHz	9.411	11	PASS
	5600 MHz	9.729	11	PASS
	5700 MHz	10.096	11	PASS
802.11 ac40	5510 MHz	6.220	11	PASS
	5590 MHz	6.285	11	PASS
	5670 MHz	6.143	11	PASS

(802.11a) PSD plot on channel 100

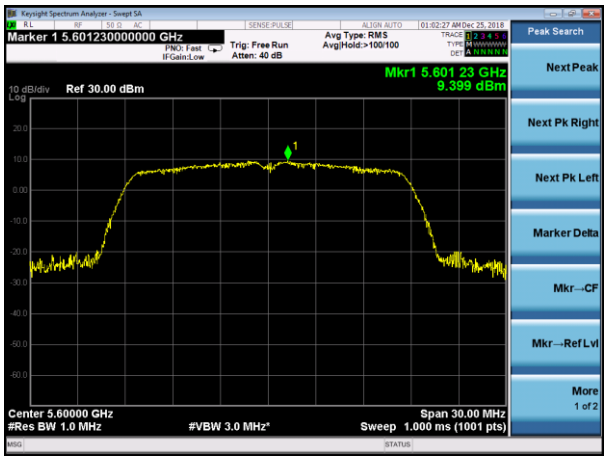


(802.11n20) PSD plot on channel 100

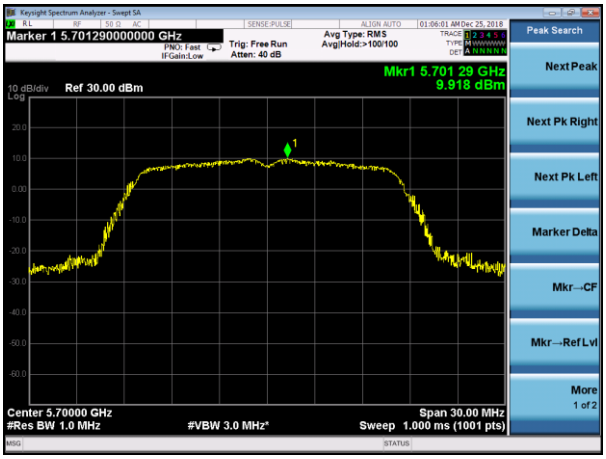
(802.11a) PSD plot on channel 120



(802.11n20) PSD plot on channel 120

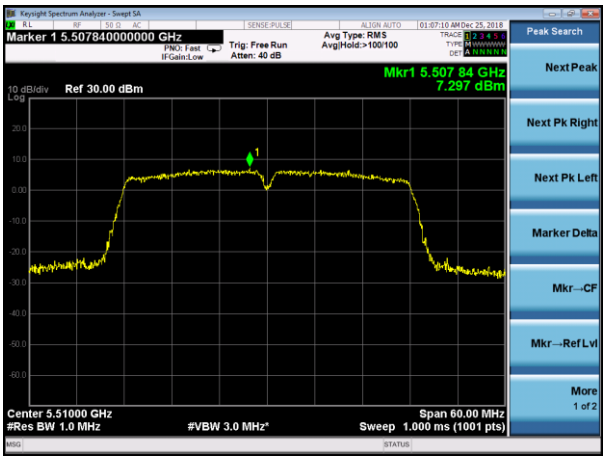


(802.11a) PSD plot on channel 140

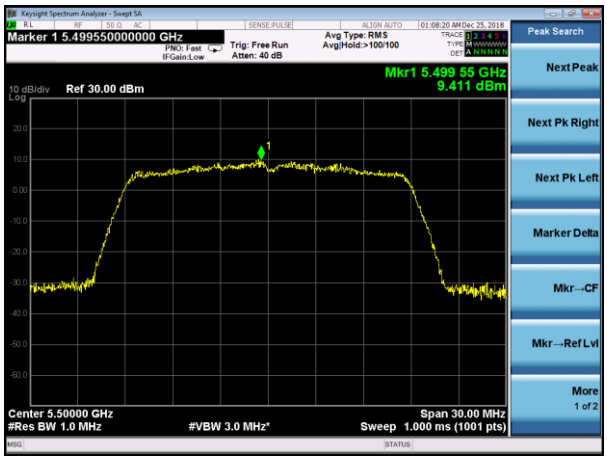


(802.11n20) PSD plot on channel 140

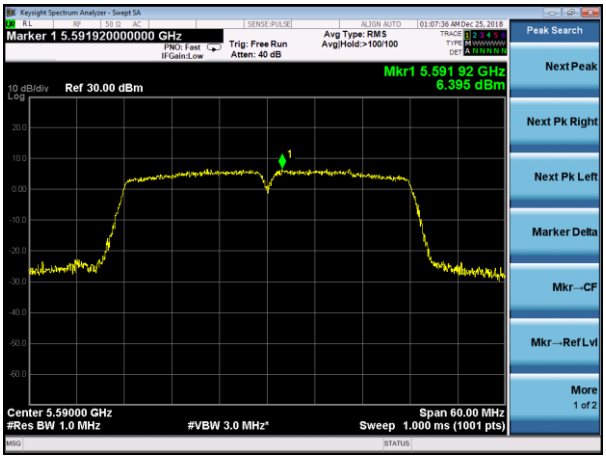
(802.11n40) PSD plot on channel 102



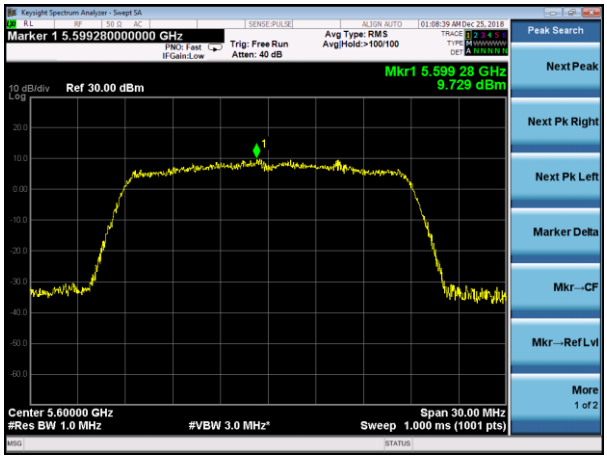
(802.11ac20) PSD plot on channel 100



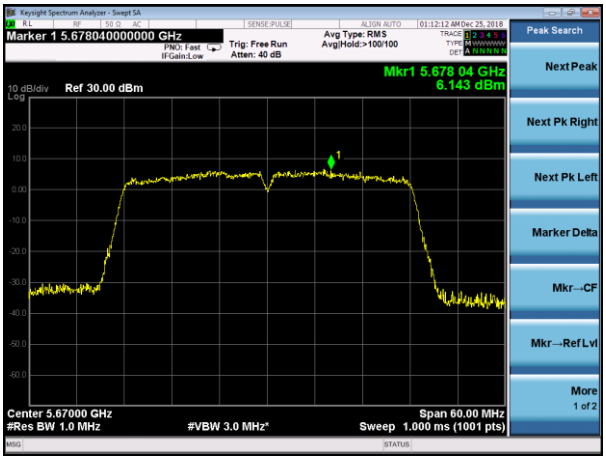
(802.11n40) PSD plot on channel 118



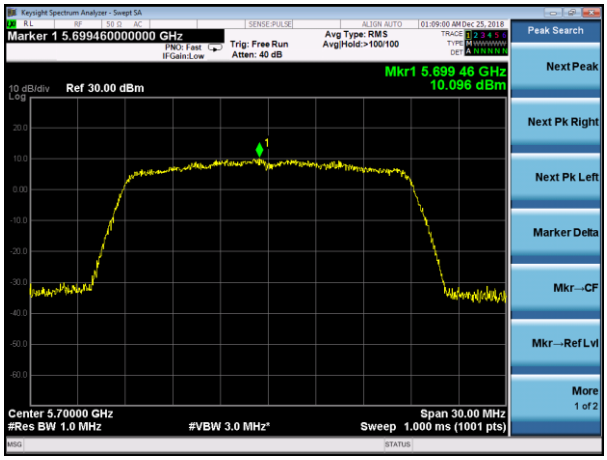
(802.11ac20) PSD plot on channel 120



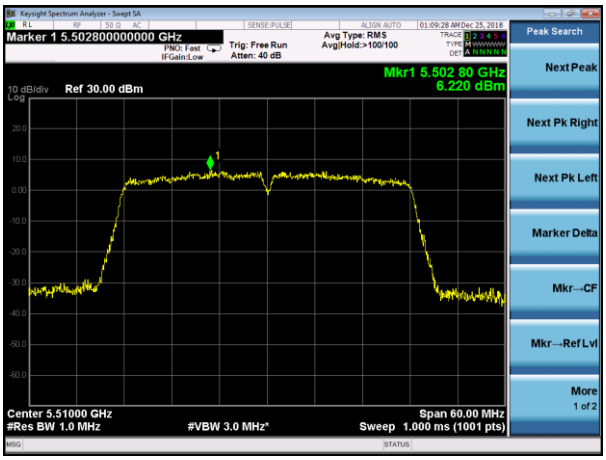
(802.11n40) PSD plot on channel 134



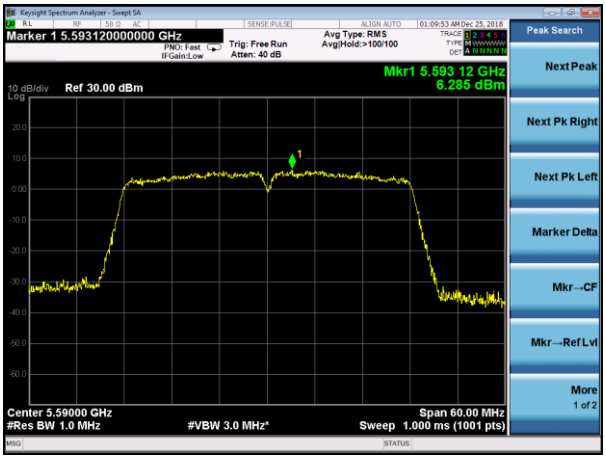
(802.11ac20) PSD plot on channel 140



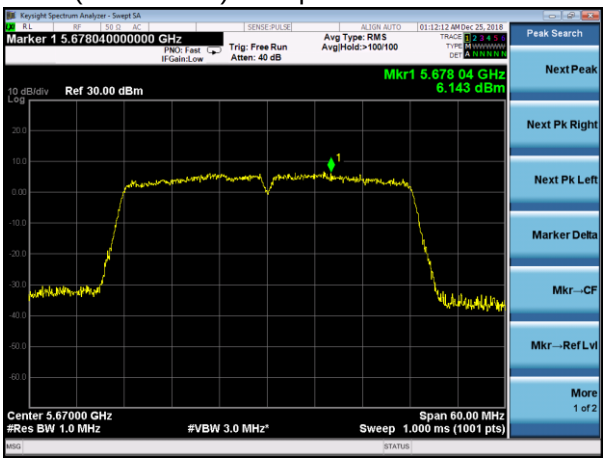
(802.11ac40) PSD plot on channel 102



(802.11ac40) PSD plot on channel 118



(802.11ac40) PSD plot on channel 134



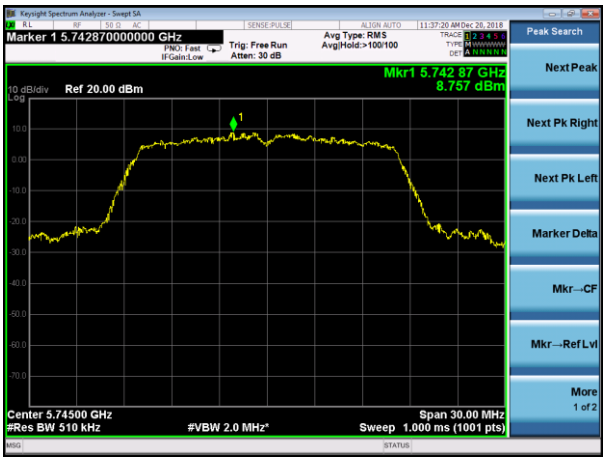
EUT：	LTE SMARTPHONE	Model Name. ：	PSM01E
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 3 (5745-5825MHz)		

Mode	Frequency	Measured Power Density (dBm)	Calculate power density (dBm)(Note 1)	Limit (dBm)	Result
802.11 a	5745 MHz	8.757	8.671	30	PASS
	5785 MHz	8.938	8.852	30	PASS
	5825 MHz	8.725	8.639	30	PASS
802.11 n20	5745 MHz	7.978	7.892	30	PASS
	5785 MHz	7.518	7.432	30	PASS
	5825 MHz	8.211	8.125	30	PASS
802.11 n40	5755 MHz	5.115	5.029	30	PASS
	5795 MHz	4.679	4.593	30	PASS
802.11 ac20	5745 MHz	8.045	7.959	30	PASS
	5785 MHz	8.060	7.974	30	PASS
	5825 MHz	8.065	7.979	30	PASS
802.11 ac40	5755 MHz	4.747	4.661	30	PASS
	5795 MHz	4.794	4.708	30	PASS

Note:

(1) Calculate power density= Measured Power Density+10log(500kHz/RBW)= Measured Power Density+(-0.086)
RBW=0.51MHz

(802.11a) PSD plot on channel 149



(802.11n20) PSD plot on channel 149

(802.11a) PSD plot on channel 157

(802.11n20) PSD plot on channel 157

(802.11a) PSD plot on channel 165

(802.11n20) PSD plot on channel 165