



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological
Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555
Fax: +86 (0) 20 82075059
Email: ee.guangzhou@sgs.com

Report No.: GZEM190101046902
Page: 1 of 50
FCC ID: 2ASDKMYS-06

TEST REPORT

Application No.: GZEM1901010469CR
Applicant: MYSKIN, INC
Address of Applicant: 123 TOWN SQUARE PLACE, SUITE 325
Manufacturer: mySkin, Inc
Address of Manufacturer: 123 Town Square Place, Suite 324, Jersey City, NJ 07310
Factory: Flextronics
Address of Factory: Xin Qing Science & Technology Industrial Park Zhuhai, Guangdong China
Equipment Under Test (EUT):
FCC ID: 2ASDKMYS-06
EUT Name: OKU Skin Scanning device
Model No.: MYS-06
Trade Mark: OKU
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2019-01-25
Date of Test: 2019-05-28 to 2019-06-03
Date of Issue: 2019-06-10

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

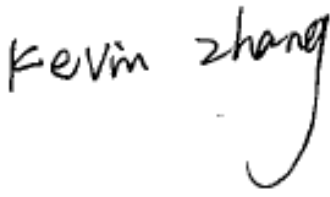


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-06-10		Original

Authorized for issue by:			
Tested By		2019-05-28 to 2019-06-03 Date	
Checked By		2019-06-10 Date	
	Kevin_Zhang /Project Engineer		
	Ricky_Liu /Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 100-240V 50/60Hz by AC/DC adapter
Details of adapter:	
	MODEL:KSA-5W-050100VU
	INPUT:100-240V~50/60Hz 0.18A
	OUTPUT:5.0V-1.0A
Test Voltage:	AC 120V 50Hz
Cable:	Micro-USB cable (unshielded, 1m)
Antenna Gain	0.5dBi
Antenna Type	Integrated Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
TNVN	25	120
TLVN	-10	120
THVN	45	120

Note:

- 1) VN: Normal Voltage
 TN: Normal Temperature
 TL: Low Extreme Test Temperature
 TH: High Extreme Test Temperature



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Using test software was control EUT work in continuous transmitter and receiver mode. And select test channel as below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPad mini	Apple	A1432	/
Laptop	Lenovo	T430u	REF. No.SEA1800

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01



Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

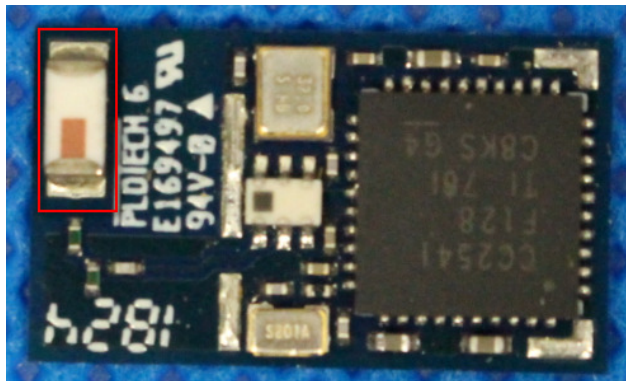
6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.5dBi.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

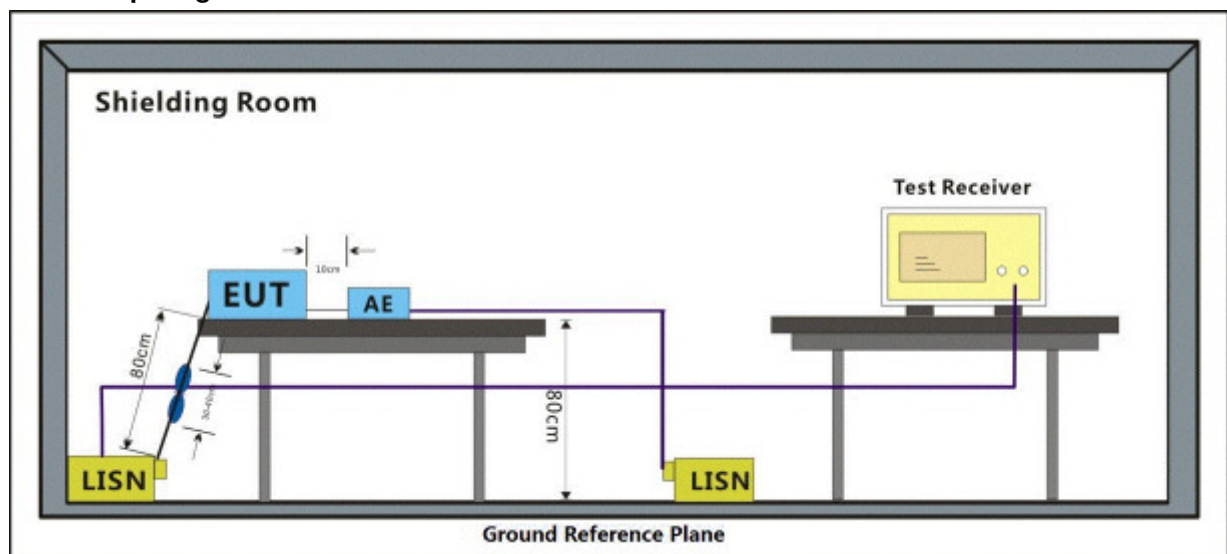
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.2 Test Setup Diagram



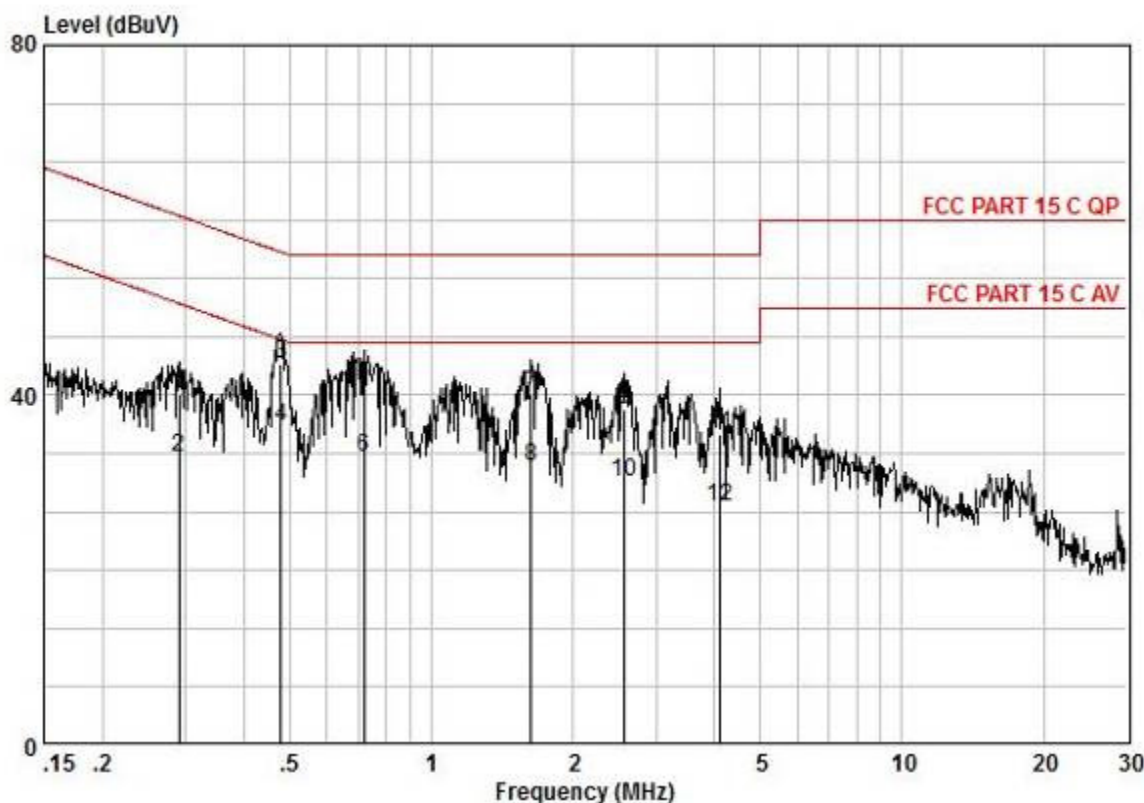
7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



Mode:b; Line:Live Line



Pol	:LIVE						
No	:						
Model	:						
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.29	30.32	0.10	9.67	40.09	60.50	-20.41	QP
0.29	23.24	0.10	9.67	33.01	50.50	-17.49	AVERAGE
0.48	33.78	0.10	9.67	43.55	56.36	-12.81	QP
0.48	26.53	0.10	9.67	36.30	46.36	-10.06	AVERAGE
0.72	31.41	0.10	9.67	41.18	56.00	-14.82	QP
0.72	23.09	0.10	9.67	32.86	46.00	-13.14	AVERAGE
1.63	30.37	0.10	9.68	40.15	56.00	-15.85	QP
1.63	22.09	0.10	9.68	31.87	46.00	-14.13	AVERAGE
2.58	28.60	0.16	9.69	38.45	56.00	-17.55	QP
2.58	20.26	0.16	9.69	30.11	46.00	-15.89	AVERAGE
4.11	25.56	0.20	9.70	35.46	56.00	-20.54	QP
4.11	17.39	0.20	9.70	27.29	46.00	-18.71	AVERAGE



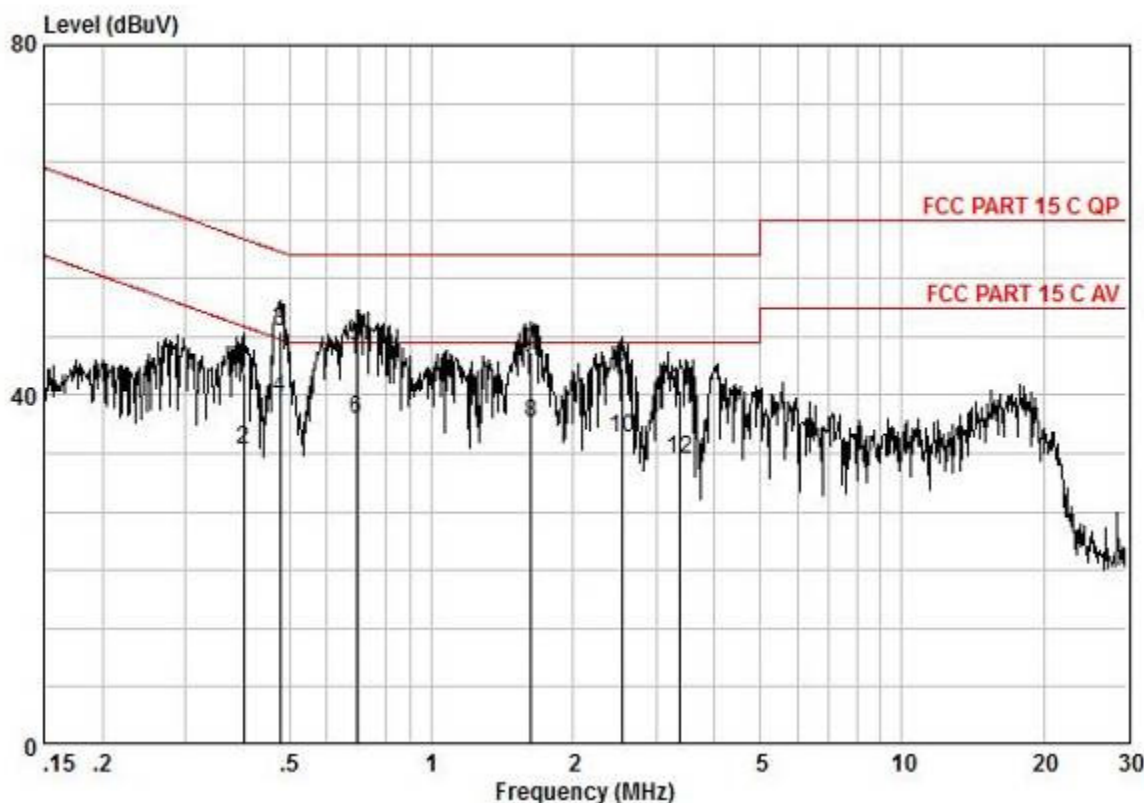
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Mode:b; Line:Neutral Line


Pol : NEUTRAL
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0,40	32,82	0,10	9,59	42,51	57,86	-15,35	QP
0,40	24,09	0,10	9,59	33,78	47,86	-14,08	AVERAGE
0,48	37,65	0,10	9,60	47,35	56,41	-9,06	QP
0,48	29,95	0,10	9,60	39,65	46,41	-6,76	AVERAGE
0,69	35,75	0,10	9,60	45,45	56,00	-10,55	QP
0,69	27,66	0,10	9,60	37,36	46,00	-8,64	AVERAGE
1,63	35,11	0,10	9,61	44,82	56,00	-11,18	QP
1,63	27,20	0,10	9,61	36,91	46,00	-9,09	AVERAGE
2,54	33,31	0,16	9,62	43,09	56,00	-12,91	QP
2,54	25,27	0,16	9,62	35,05	46,00	-10,95	AVERAGE
3,38	30,71	0,20	9,62	40,53	56,00	-15,47	QP
3,38	22,94	0,20	9,62	32,76	46,00	-13,24	AVERAGE



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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2013) Section 11.8.1
 Limit: ≥ 500 kHz

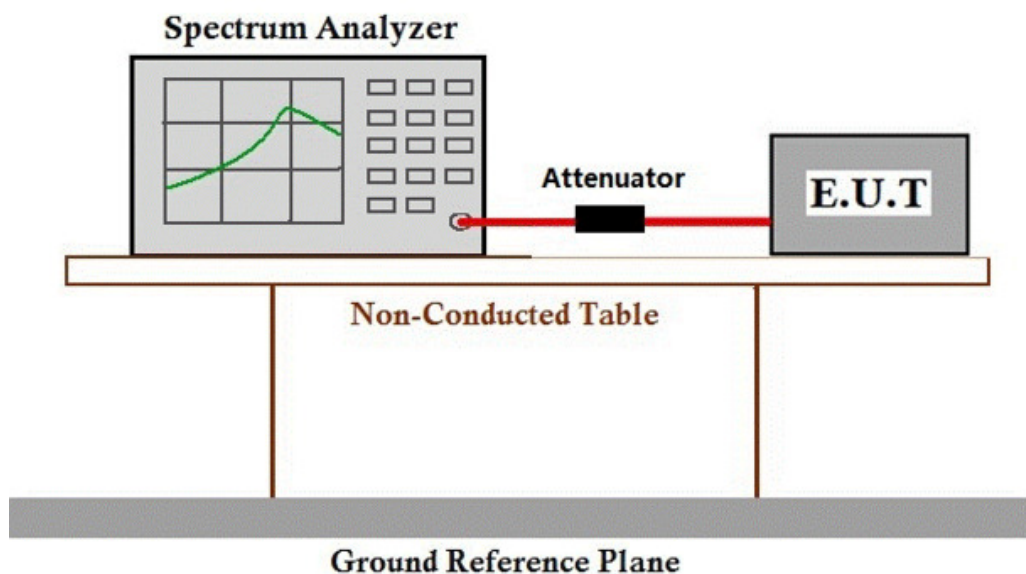
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 71.2 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

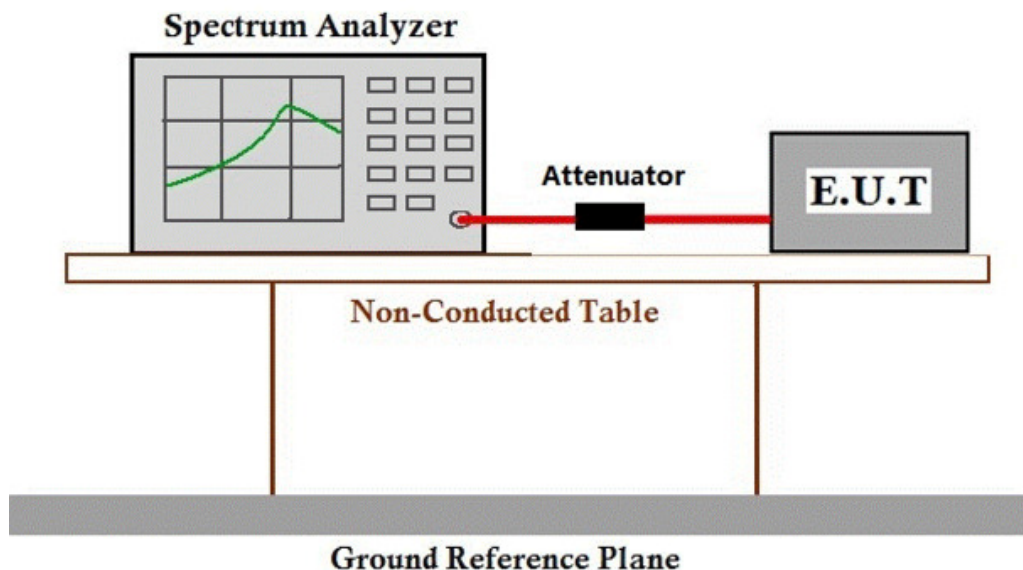
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 71.2 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.4 Power Spectrum Density

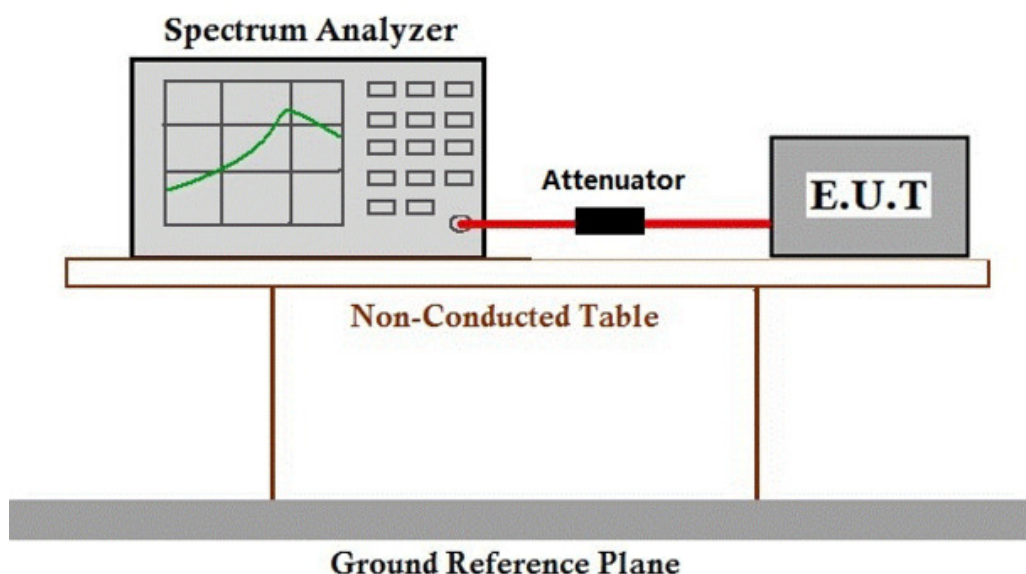
Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2013) Section 11.10.2
 Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 71.2 % RH Atmospheric Pressure: 1020 mbar
 Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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))

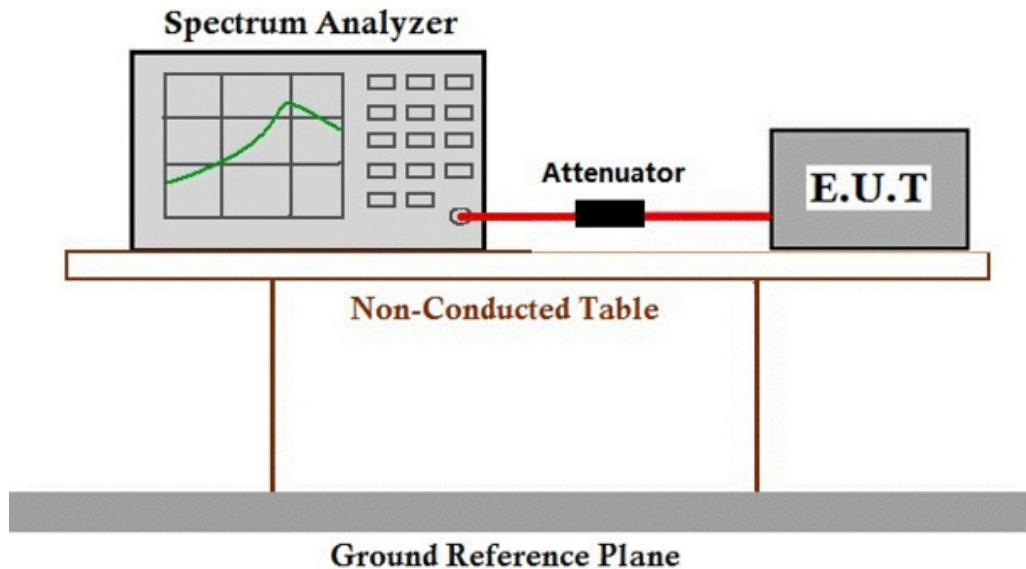
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 71.1 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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))

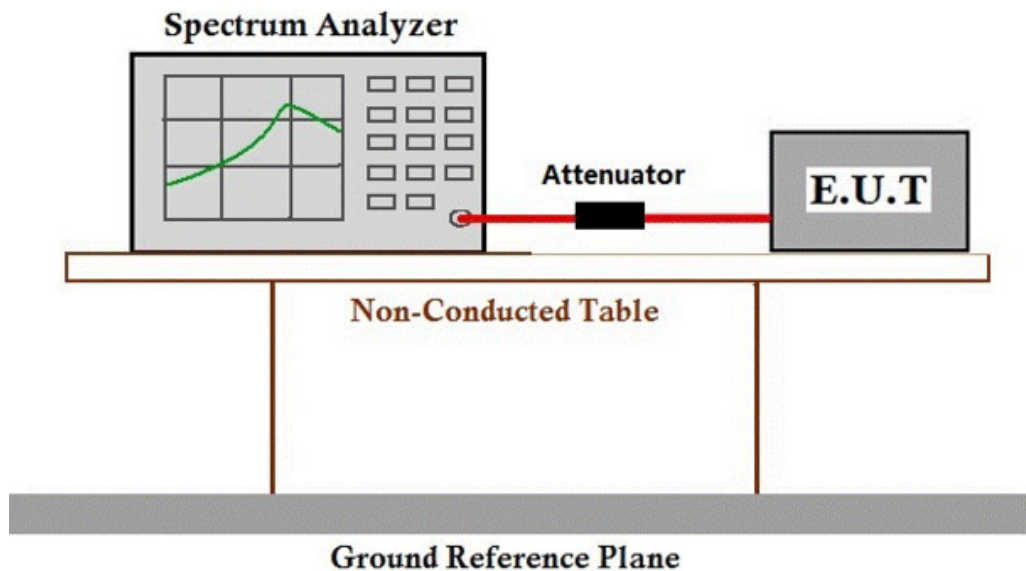
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 71.1 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

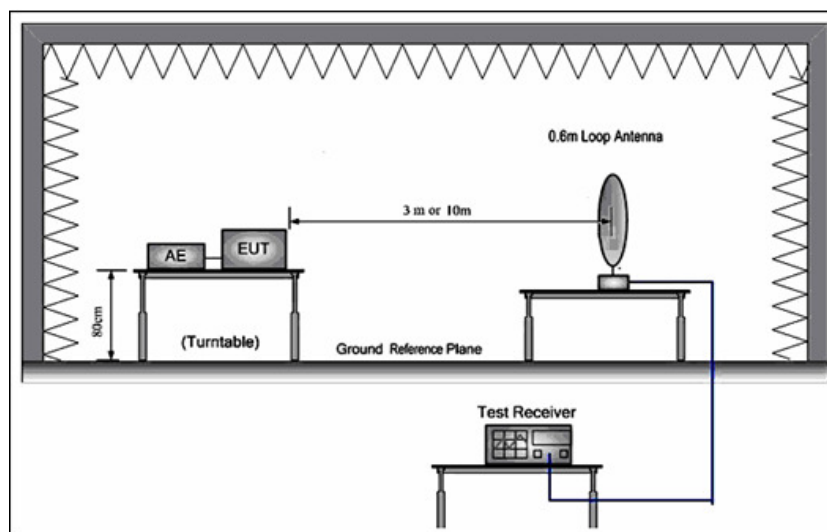
Operating Environment:

Temperature: 24.8 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.2 Test Setup Diagram

9kHz to 30MHz

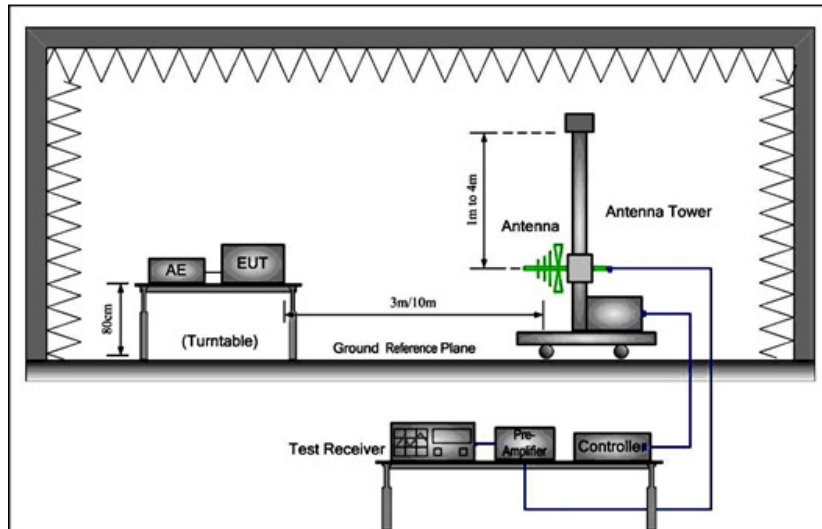


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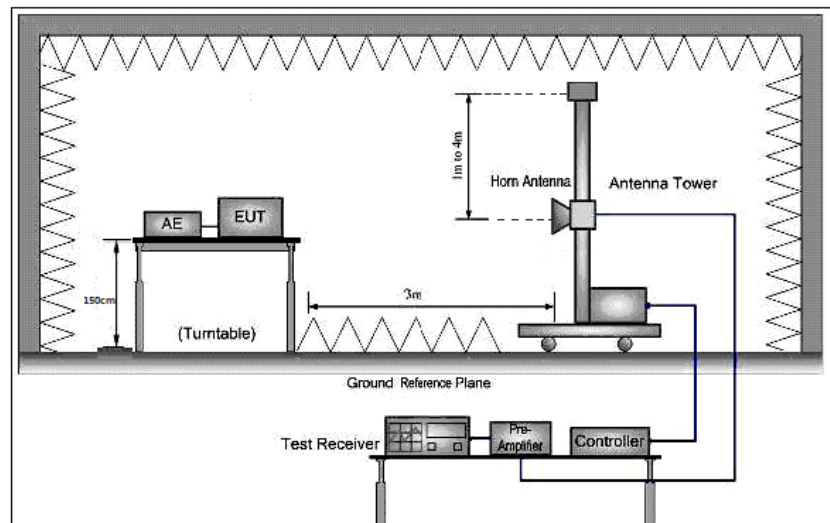
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30MHz to 1GHz



Above 1GHz



7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.26	26.25	5.03	37.44	27.10	54.00	-26.90	HORIZONTAL Average
2	2310.000	47.53	26.25	5.03	37.44	41.37	74.00	-32.63	HORIZONTAL Peak
3	2390.000	31.26	26.43	4.88	37.42	25.15	54.00	-28.85	HORIZONTAL Average
4	2390.000	46.87	26.43	4.88	37.42	40.76	74.00	-33.24	HORIZONTAL Peak
5	2483.500	31.12	26.58	5.23	37.40	25.53	54.00	-28.47	HORIZONTAL Average
6	2483.500	46.79	26.58	5.23	37.40	41.20	74.00	-32.80	HORIZONTAL Peak
7	2500.000	33.73	26.60	4.95	37.39	27.89	54.00	-26.11	HORIZONTAL Average
8	2500.000	46.91	26.60	4.95	37.39	41.07	74.00	-32.93	HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.65	26.25	5.03	37.44	27.49	54.00	-26.51	VERTICAL Average
2	2310.000	47.12	26.25	5.03	37.44	40.96	74.00	-33.04	VERTICAL Peak
3	2390.000	31.14	26.43	4.88	37.42	25.03	54.00	-28.97	VERTICAL Average
4	2390.000	47.25	26.43	4.88	37.42	41.14	74.00	-32.86	VERTICAL Peak
5	2483.500	33.88	26.58	5.23	37.40	28.29	54.00	-25.71	VERTICAL Average
6	2483.500	46.87	26.58	5.23	37.40	41.28	74.00	-32.72	VERTICAL Peak
7	2500.000	33.17	26.60	4.95	37.39	27.33	54.00	-26.67	VERTICAL Average
8	2500.000	46.43	26.60	4.95	37.39	40.59	74.00	-33.41	VERTICAL Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	32.82	26.25	5.03	37.44	26.66	54.00	-27.34	HORIZONTAL Average
2	2310.000	46.70	26.25	5.03	37.44	40.54	74.00	-33.46	HORIZONTAL Peak
3	2390.000	31.90	26.43	4.88	37.42	25.79	54.00	-28.21	HORIZONTAL Average
4	2390.000	46.91	26.43	4.88	37.42	40.80	74.00	-33.20	HORIZONTAL Peak
5	2483.500	31.37	26.58	5.23	37.40	25.78	54.00	-28.22	HORIZONTAL Average
6	2483.500	47.43	26.58	5.23	37.40	41.84	74.00	-32.16	HORIZONTAL Peak
7	2500.000	33.52	26.60	4.95	37.39	27.68	54.00	-26.32	HORIZONTAL Average
8	2500.000	46.87	26.60	4.95	37.39	41.03	74.00	-32.97	HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.56	26.25	5.03	37.44	27.40	54.00	-26.60	VERTICAL Average
2	2310.000	47.58	26.25	5.03	37.44	41.42	74.00	-32.58	VERTICAL Peak
3	2390.000	34.35	26.43	4.88	37.42	28.24	54.00	-25.76	VERTICAL Average
4	2390.000	47.10	26.43	4.88	37.42	40.99	74.00	-33.01	VERTICAL Peak
5	2483.500	31.91	26.58	5.23	37.40	26.32	54.00	-27.68	VERTICAL Average
6	2483.500	46.95	26.58	5.23	37.40	41.36	74.00	-32.64	VERTICAL Peak
7	2500.000	34.20	26.60	4.95	37.39	28.36	54.00	-25.64	VERTICAL Average
8	2500.000	46.65	26.60	4.95	37.39	40.81	74.00	-33.19	VERTICAL Peak



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7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

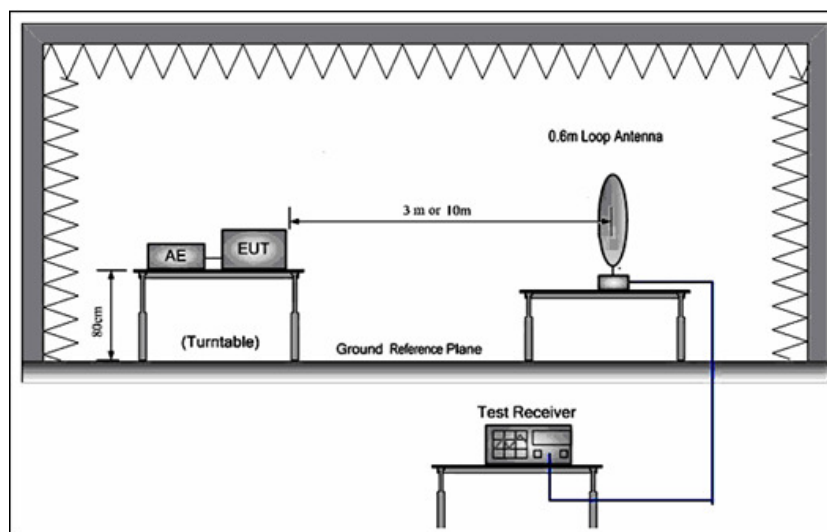
Operating Environment:

Temperature: 24.8 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.2 Test Setup Diagram

9kHz to 30MHz

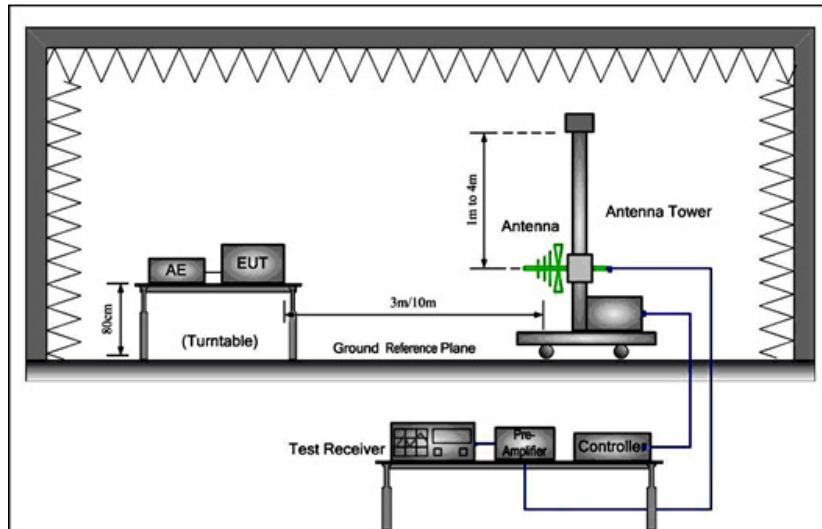


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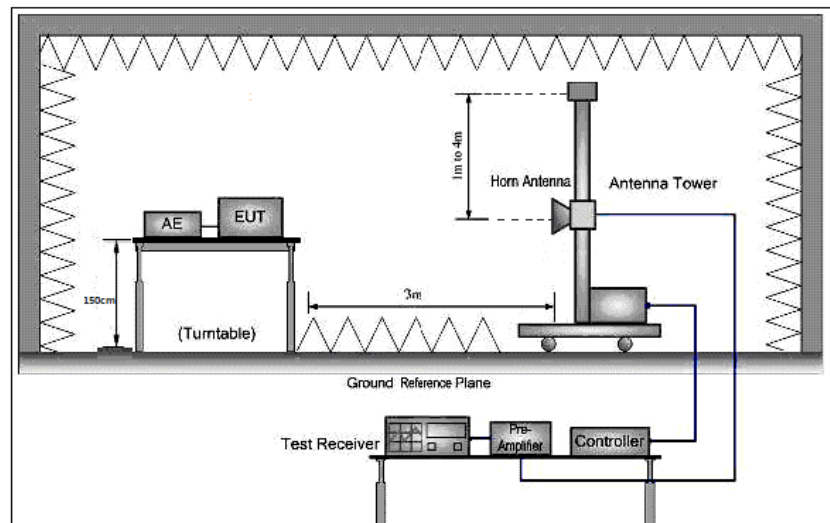
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30MHz to 1GHz



Above 1GHz



7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	32.864	22.76	12.29	0.16	22.26	12.95	40.00	-27.05 HORIZONTAL QP
2	46.178	23.25	12.89	0.69	24.55	12.28	40.00	-27.72 HORIZONTAL QP
3	180.649	29.23	12.67	1.34	28.09	15.15	43.50	-28.35 HORIZONTAL QP
4	586.844	28.39	20.43	1.95	29.28	21.49	46.00	-24.51 HORIZONTAL QP
5	810.265	28.12	22.80	2.76	28.62	25.06	46.00	-20.94 HORIZONTAL QP
6	919.287	27.28	24.16	3.74	28.43	26.75	46.00	-19.25 HORIZONTAL QP

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3801.333	32.37	29.01	7.89	36.92	32.35	54.00	-21.65 HORIZONTAL Average
2	3801.333	44.72	29.01	7.89	36.92	44.70	74.00	-29.30 HORIZONTAL Peak
3	4804.110	37.72	30.79	5.87	36.94	37.44	54.00	-16.56 HORIZONTAL Average
4	4804.110	47.40	30.79	5.87	36.94	47.12	74.00	-26.88 HORIZONTAL Peak
5	7206.015	32.26	35.45	7.34	36.93	38.12	54.00	-15.88 HORIZONTAL Average
6	7206.015	44.36	35.45	7.34	36.93	50.22	74.00	-23.78 HORIZONTAL Peak
7	8764.146	31.62	36.33	8.00	36.97	38.98	54.00	-15.02 HORIZONTAL Average
8	8764.146	44.14	36.33	8.00	36.97	51.50	74.00	-22.50 HORIZONTAL Peak
9	9608.789	29.78	37.51	8.15	37.08	38.36	54.00	-15.64 HORIZONTAL Average
10	9608.789	44.89	37.51	8.15	37.08	53.47	74.00	-20.53 HORIZONTAL Peak
11	12010.220	29.24	39.50	10.67	37.20	42.21	54.00	-11.79 HORIZONTAL Average
12	12010.220	41.37	39.50	10.67	37.20	54.34	74.00	-19.66 HORIZONTAL Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.492	27.11	12.94	0.65	24.67	16.03	40.00	-23.97	VERTICAL
2	101.644	28.70	9.71	0.85	27.19	12.07	43.50	-31.43	VERTICAL
3	163.755	27.27	13.29	1.28	28.09	13.75	43.50	-29.75	VERTICAL
4	543.274	30.38	19.23	2.17	29.70	22.08	46.00	-23.92	VERTICAL
5	684.745	29.05	21.33	2.22	28.86	23.74	46.00	-22.26	VERTICAL
6	890.728	29.07	23.92	2.87	28.01	27.85	46.00	-18.15	VERTICAL

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3969.767	32.60	29.44	7.32	36.90	32.46	54.00	-21.54	VERTICAL
2	3969.767	46.24	29.44	7.32	36.90	46.10	74.00	-27.90	VERTICAL
3	4804.110	39.49	30.79	5.87	36.94	39.21	54.00	-14.79	VERTICAL
4	4804.110	48.63	30.79	5.87	36.94	48.35	74.00	-25.65	VERTICAL
5	7206.474	32.43	35.45	7.34	36.93	38.29	54.00	-15.71	VERTICAL
6	7206.474	44.59	35.45	7.34	36.93	50.45	74.00	-23.55	VERTICAL
7	8638.399	31.04	36.20	7.96	36.95	38.25	54.00	-15.75	VERTICAL
8	8638.399	44.16	36.20	7.96	36.95	51.37	74.00	-22.63	VERTICAL
9	9608.789	30.22	37.51	8.15	37.08	38.80	54.00	-15.20	VERTICAL
10	9608.789	45.26	37.51	8.15	37.08	53.84	74.00	-20.16	VERTICAL
11	12010.220	28.09	39.50	10.67	37.20	41.06	54.00	-12.94	VERTICAL
12	12010.220	42.11	39.50	10.67	37.20	55.08	74.00	-18.92	VERTICAL



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3992.781	35.53	29.48	7.26	36.90	35.37	54.00	-18.63 HORIZONTAL Average
2	3992.781	48.53	29.48	7.26	36.90	48.37	74.00	-25.63 HORIZONTAL Peak
3	4881.980	38.89	30.95	6.86	36.95	39.75	54.00	-14.25 HORIZONTAL Average
4	4881.980	48.61	30.95	6.86	36.95	49.47	74.00	-24.53 HORIZONTAL Peak
5	7326.063	28.61	35.74	7.39	36.92	34.82	54.00	-19.18 HORIZONTAL Average
6	7326.063	43.36	35.74	7.39	36.92	49.57	74.00	-24.43 HORIZONTAL Peak
7	8319.836	28.35	36.22	8.15	36.92	35.80	54.00	-18.20 HORIZONTAL Average
8	8319.836	44.35	36.22	8.15	36.92	51.80	74.00	-22.20 HORIZONTAL Peak
9	9768.689	28.24	37.74	8.37	37.09	37.26	54.00	-16.74 HORIZONTAL Average
10	9768.689	43.53	37.74	8.37	37.09	52.55	74.00	-21.45 HORIZONTAL Peak
11	12210.280	24.43	39.21	10.98	37.06	37.56	54.00	-16.44 HORIZONTAL Average
12	12210.280	41.41	39.21	10.98	37.06	54.54	74.00	-19.46 HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3890.255	32.06	29.27	7.61	36.91	32.03	54.00	-21.97 VERTICAL Average
2	3890.255	44.58	29.27	7.61	36.91	44.55	74.00	-29.45 VERTICAL Peak
3	4882.020	36.38	30.95	6.86	36.95	37.24	54.00	-16.76 VERTICAL Average
4	4882.020	49.68	30.95	6.86	36.95	50.54	74.00	-23.46 VERTICAL Peak
5	7326.527	30.26	35.74	7.39	36.92	36.47	54.00	-17.53 VERTICAL Average
6	7326.527	43.72	35.74	7.39	36.92	49.93	74.00	-24.07 VERTICAL Peak
7	8539.102	28.40	36.13	8.00	36.94	35.59	54.00	-18.41 VERTICAL Average
8	8539.102	44.38	36.13	8.00	36.94	51.57	74.00	-22.43 VERTICAL Peak
9	9768.916	29.62	37.74	8.37	37.09	38.64	54.00	-15.36 VERTICAL Average
10	9768.916	44.88	37.74	8.37	37.09	53.90	74.00	-20.10 VERTICAL Peak
11	12210.280	27.09	39.21	10.98	37.06	40.22	54.00	-13.78 VERTICAL Average
12	12210.280	41.30	39.21	10.98	37.06	54.43	74.00	-19.57 VERTICAL Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	4039.212	33.82	29.53	7.13	36.90	33.58	54.00	-20.42 HORIZONTAL Average
2	4039.212	45.26	29.53	7.13	36.90	45.02	74.00	-28.98 HORIZONTAL Peak
3	4960.030	40.02	31.05	7.84	36.96	41.95	54.00	-12.05 HORIZONTAL Average
4	4960.030	47.10	31.05	7.84	36.96	49.03	74.00	-24.97 HORIZONTAL Peak
5	7440.914	31.63	35.92	7.43	36.92	38.06	54.00	-15.94 HORIZONTAL Average
6	7440.914	45.71	35.92	7.43	36.92	52.14	74.00	-21.86 HORIZONTAL Peak
7	8465.379	27.50	36.11	8.04	36.94	34.71	54.00	-19.29 HORIZONTAL Average
8	8465.379	43.85	36.11	8.04	36.94	51.06	74.00	-22.94 HORIZONTAL Peak
9	9920.600	29.99	37.92	8.63	37.10	39.44	54.00	-14.56 HORIZONTAL Average
10	9920.600	43.54	37.92	8.63	37.10	52.99	74.00	-21.01 HORIZONTAL Peak
11	12400.740	25.41	38.93	11.17	36.90	38.61	54.00	-15.39 HORIZONTAL Average
12	12400.740	41.41	38.93	11.17	36.90	54.61	74.00	-19.39 HORIZONTAL Peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3969.767	31.30	29.44	7.32	36.90	31.16	54.00	-22.84 VERTICAL Average
2	3969.767	44.94	29.44	7.32	36.90	44.80	74.00	-29.20 VERTICAL Peak
3	4959.990	40.35	31.05	7.84	36.96	42.28	54.00	-11.72 VERTICAL Average
4	4959.990	49.52	31.05	7.84	36.96	51.45	74.00	-22.55 VERTICAL Peak
5	7440.914	36.35	35.92	7.43	36.92	42.78	54.00	-11.22 VERTICAL Average
6	7440.914	45.45	35.92	7.43	36.92	51.88	74.00	-22.12 VERTICAL Peak
7	8814.957	29.71	36.38	8.04	36.98	37.15	54.00	-16.85 VERTICAL Average
8	8814.957	44.30	36.38	8.04	36.98	51.74	74.00	-22.26 VERTICAL Peak
9	9920.991	27.46	37.92	8.63	37.10	36.91	54.00	-17.09 VERTICAL Average
10	9920.991	44.69	37.92	8.63	37.10	54.14	74.00	-19.86 VERTICAL Peak
11	12400.620	26.66	38.93	11.17	36.90	39.86	54.00	-14.14 VERTICAL Average
12	12400.620	40.06	38.93	11.17	36.90	53.26	74.00	-20.74 VERTICAL Peak



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8 Appendix

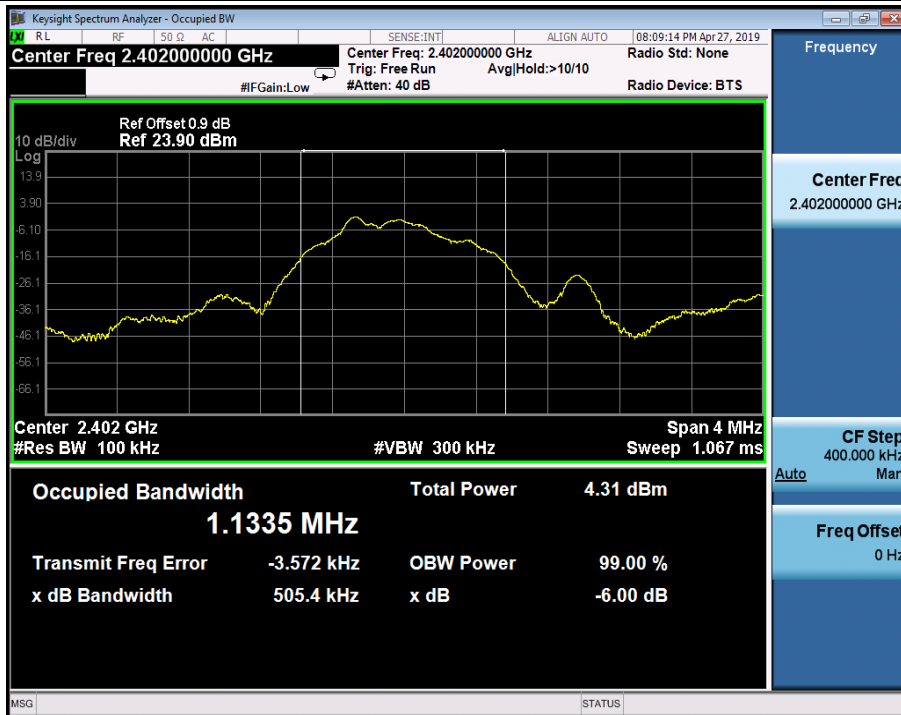
8.1 Appendix 15.247

1.6dB Bandwidth

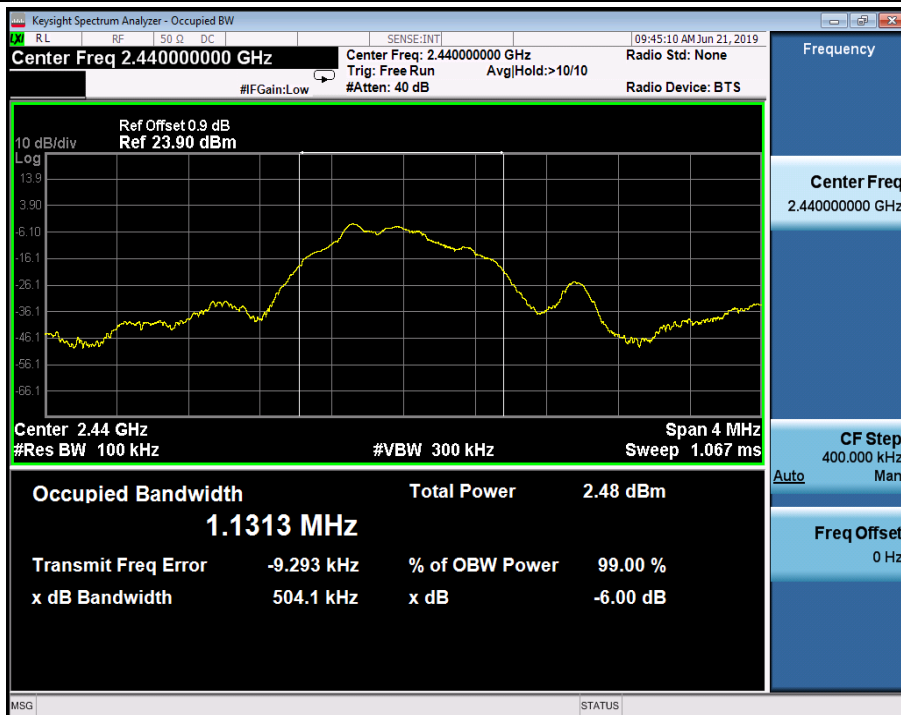
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BLE	2402	Ant1	1.1335	0.5054	0.5	PASS
BLE	2440	Ant1	1.1315	0.5041	0.5	PASS
BLE	2480	Ant1	1.1241	0.5006	0.5	PASS

TEST PLOT

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1

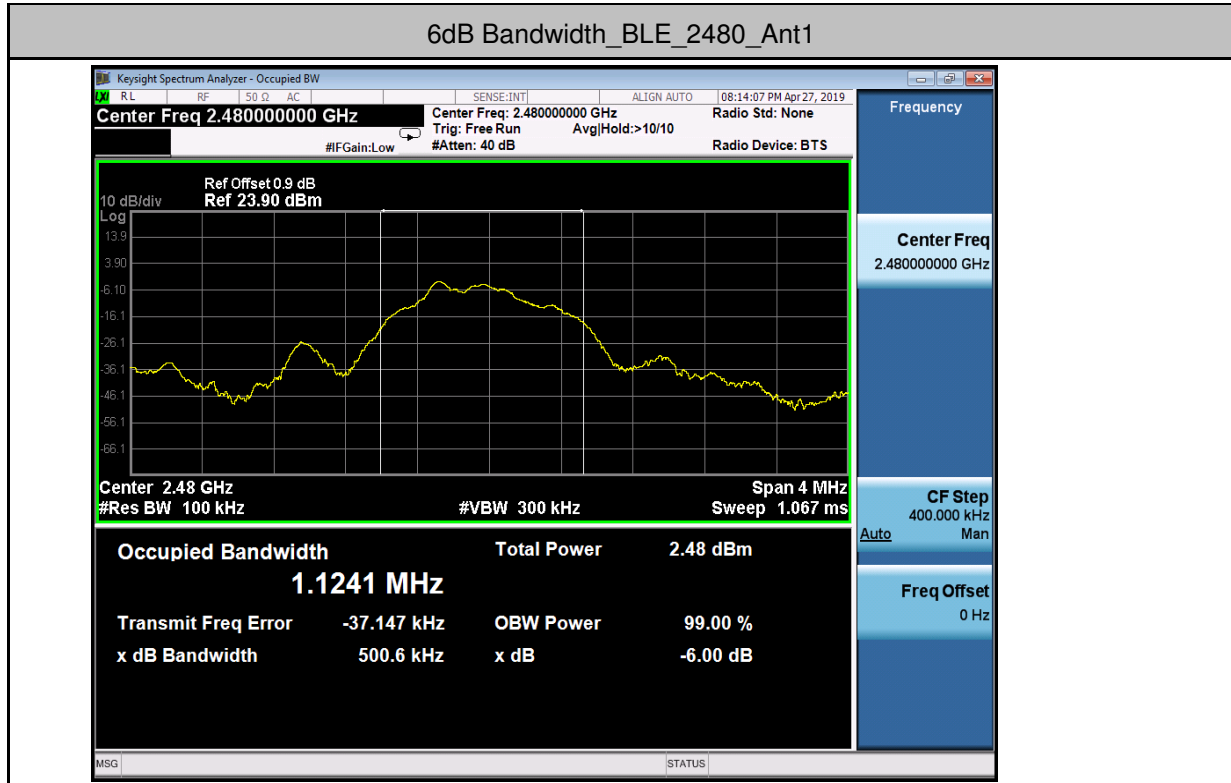


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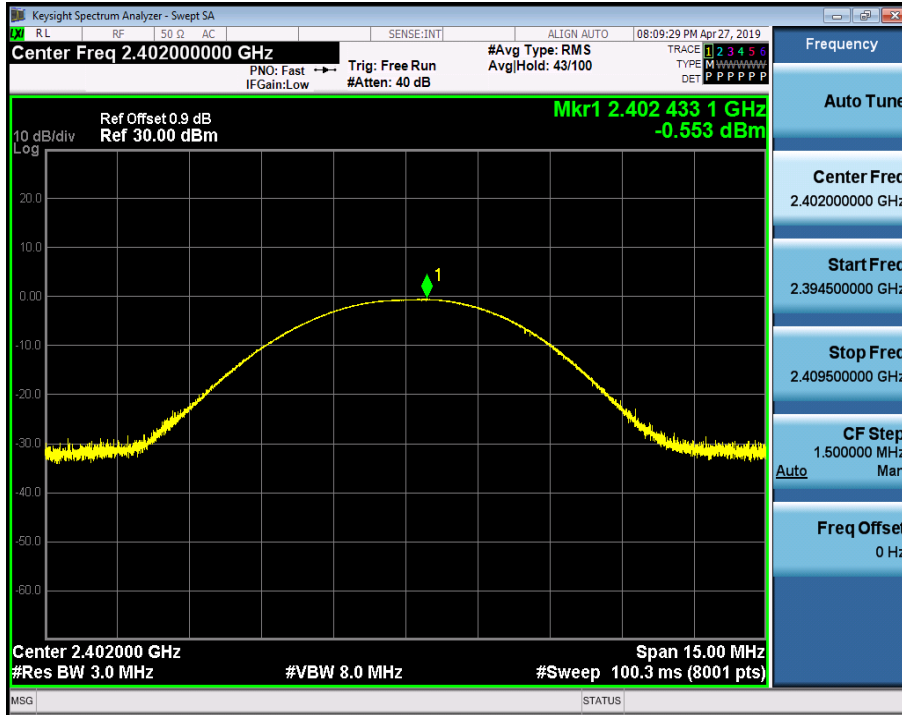


2. Maximum peak conducted output power

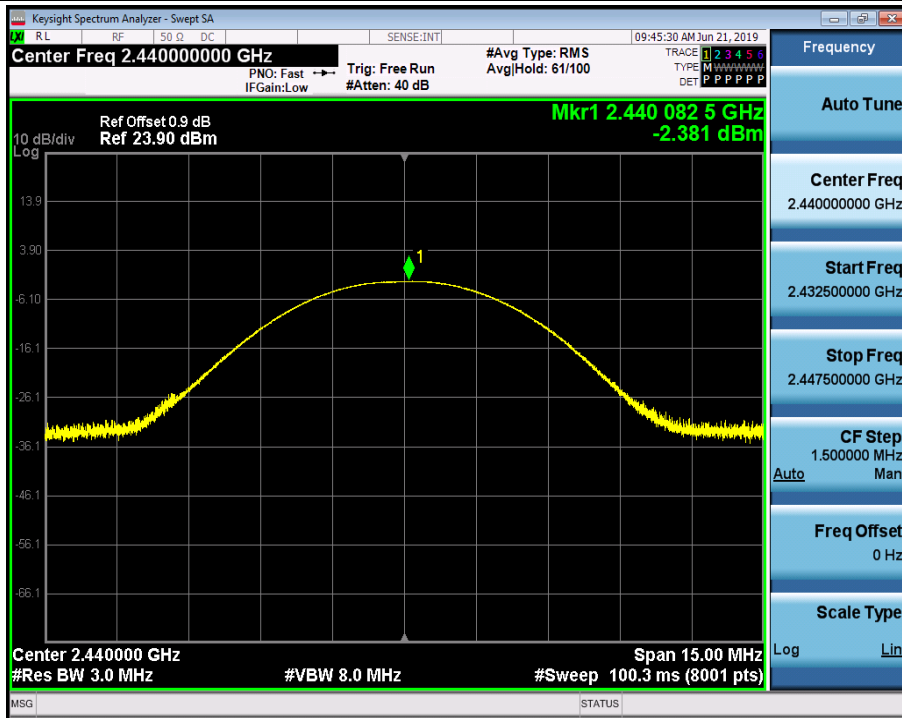
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-0.553	30	PASS
BLE	2440	Ant1	-2.381	30	PASS
BLE	2480	Ant1	-2.385	30	PASS

TEST PLOT

Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1

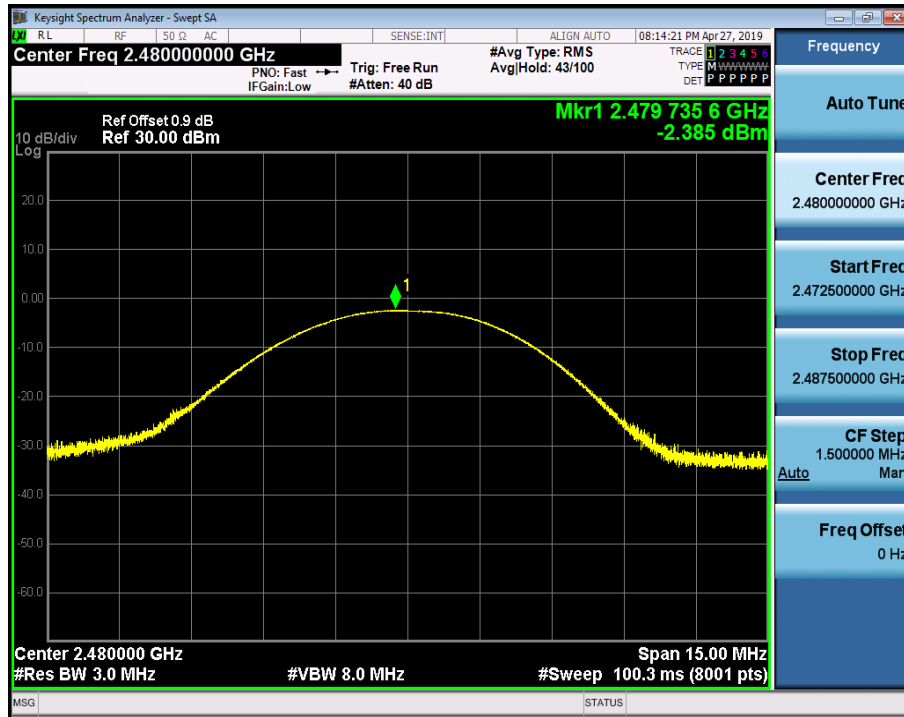


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Maximum peak conducted output power_BLE_2480_Ant1

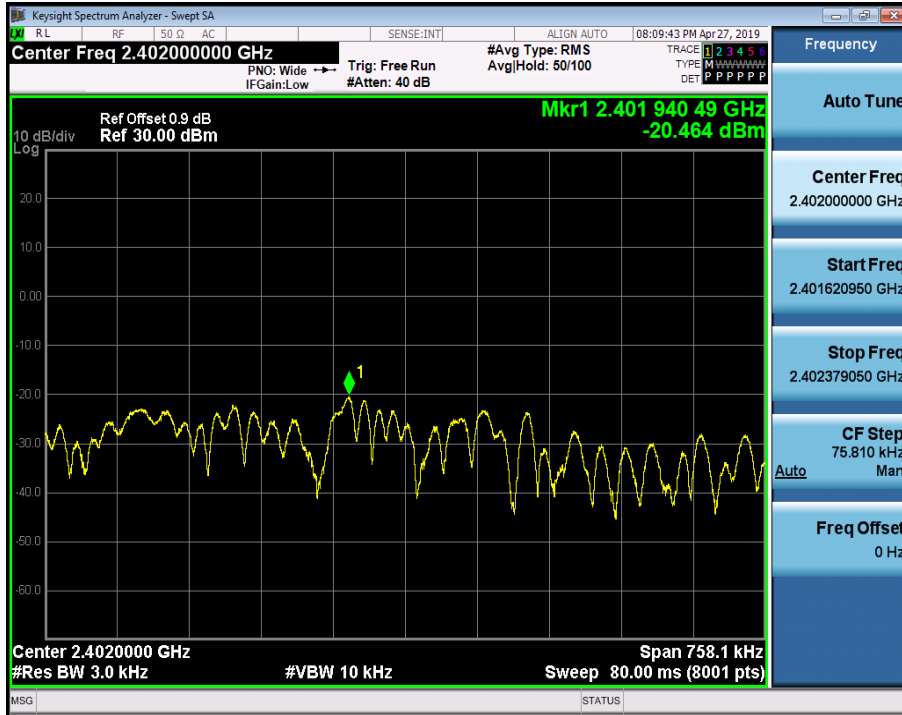


3.Maximum Peak power spectral density

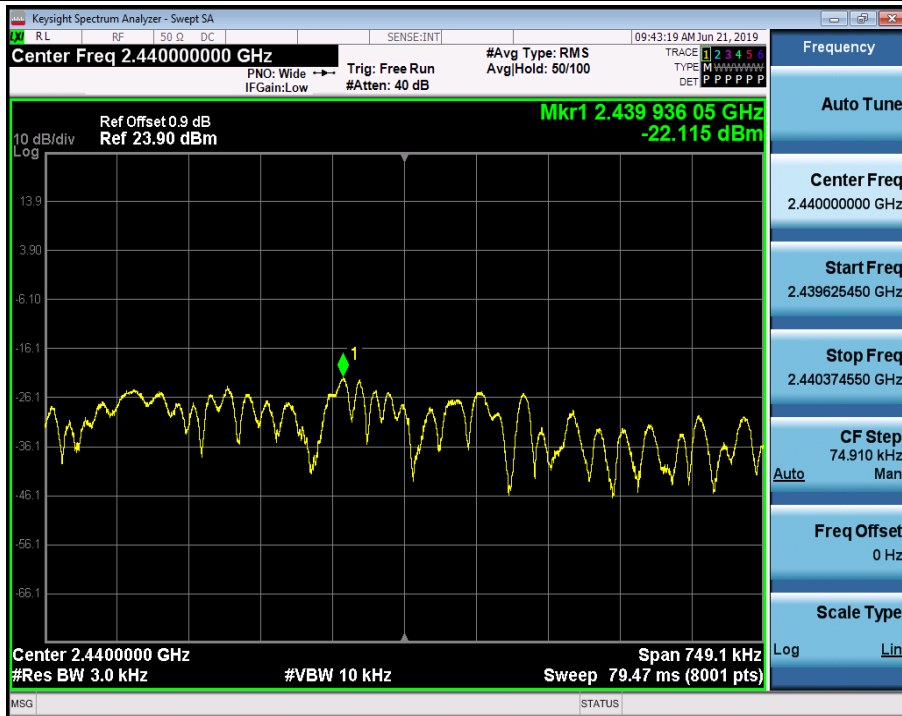
Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-20.464	8.00	PASS
BLE	2440	Ant1	-22.115	8.00	PASS
BLE	2480	Ant1	-22.387	8.00	PASS

TEST PLOT

Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1

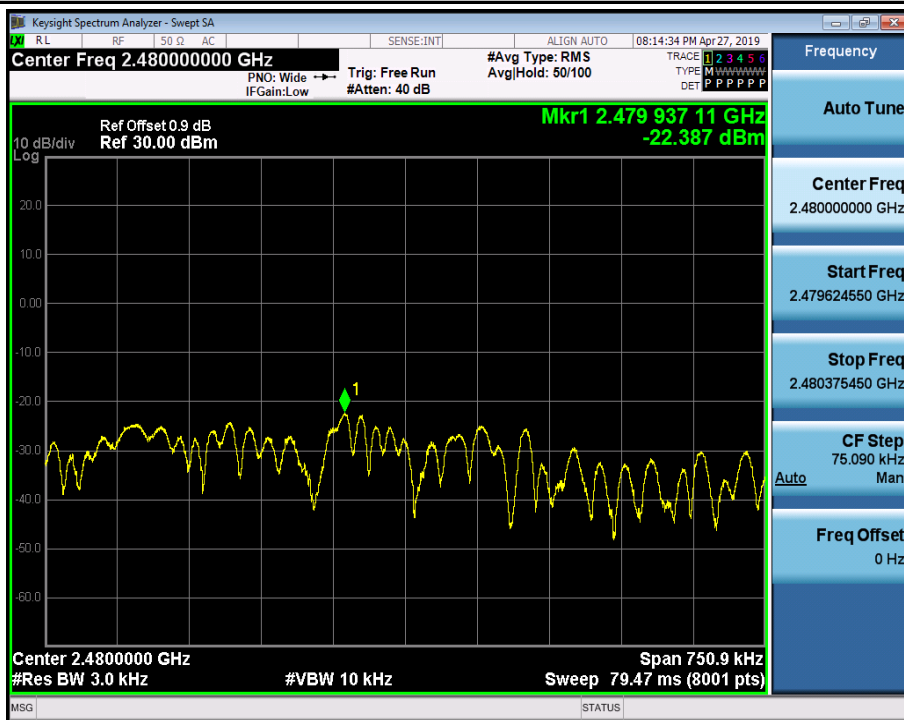


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Maximum Peak power spectral density_BLE_2480_Ant1

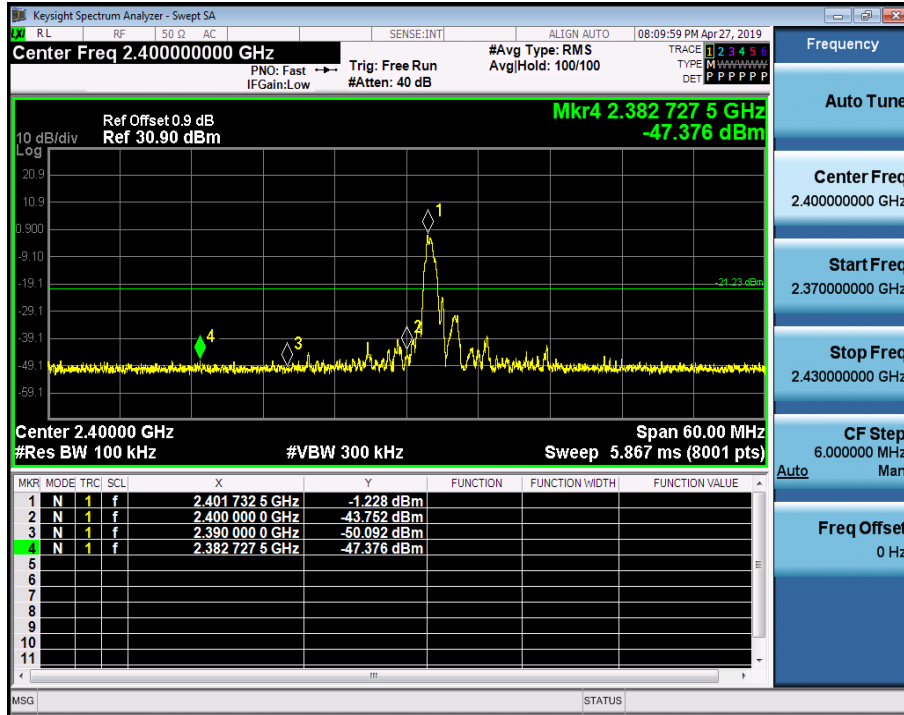


4.Band-edge for RF Conducted Emissions

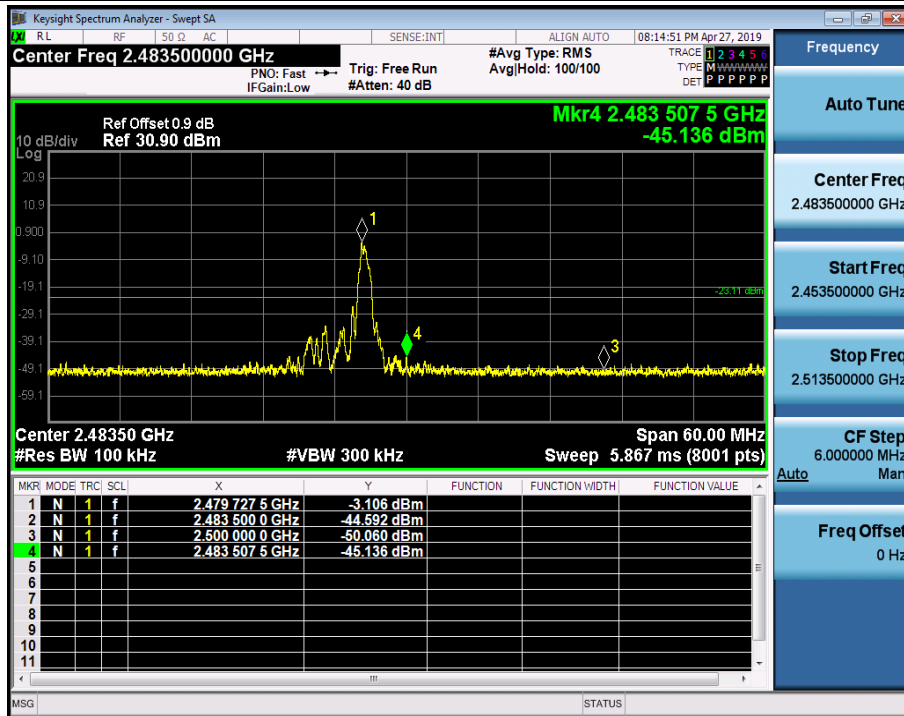
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-1.228	-47.376	-21.23	PASS
BLE	2480	Ant1	-3.106	-45.136	-23.11	PASS

TEST PLOT

Band-edge for RF Conducted Emissions_BLE_2402_Ant1



Band-edge for RF Conducted Emissions_BLE_2480_Ant1



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5.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	30	8500	100	300	-1.26	-55.301	<-21.26	PASS
BLE	2402	Ant1	8500	26000	100	300	-1.26	-51.981	<-21.26	PASS
BLE	2440	Ant1	30	10000	100	300	-3.001	-54.216	<-23.001	PASS
BLE	2440	Ant1	10000	26000	100	300	-3.001	-52.562	<-23.001	PASS
BLE	2480	Ant1	30	8500	100	300	-3.034	-55.829	<-23.034	PASS
BLE	2480	Ant1	8500	26000	100	300	-3.034	-52.100	<-23.034	PASS

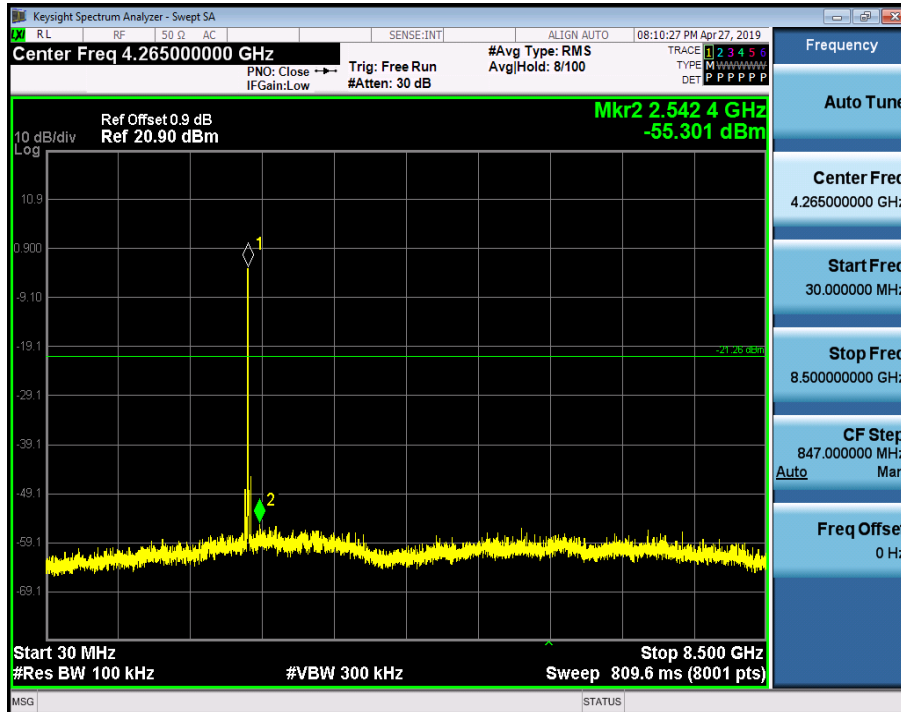
TEST PLOT

RF Conducted Spurious Emissions_BLE_2402_Ant1

Pref



CSE_1

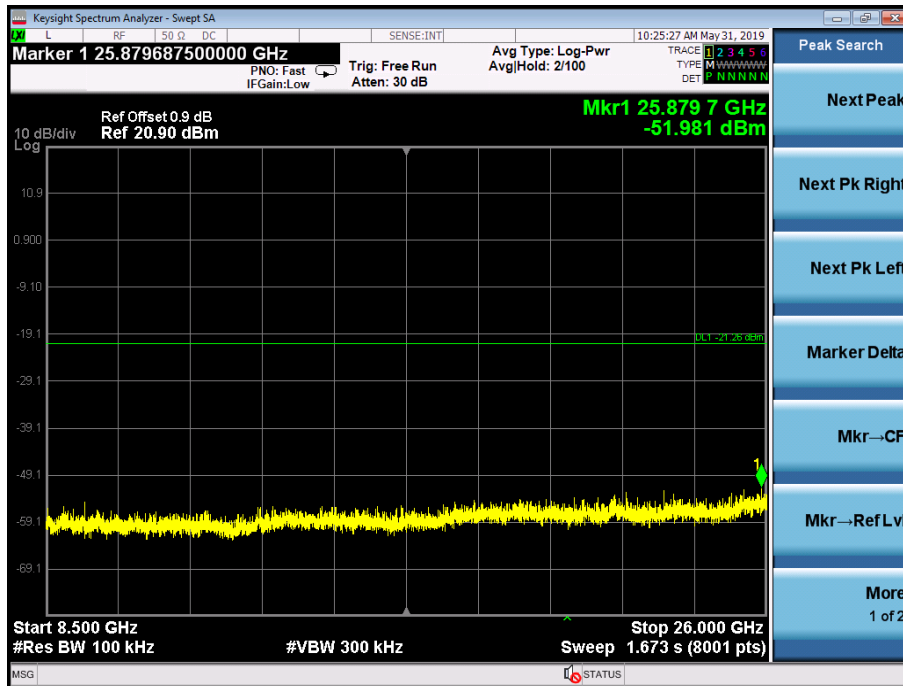


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CSE_2



RF Conducted Spurious Emissions_BLE_2440_Ant1

Pref

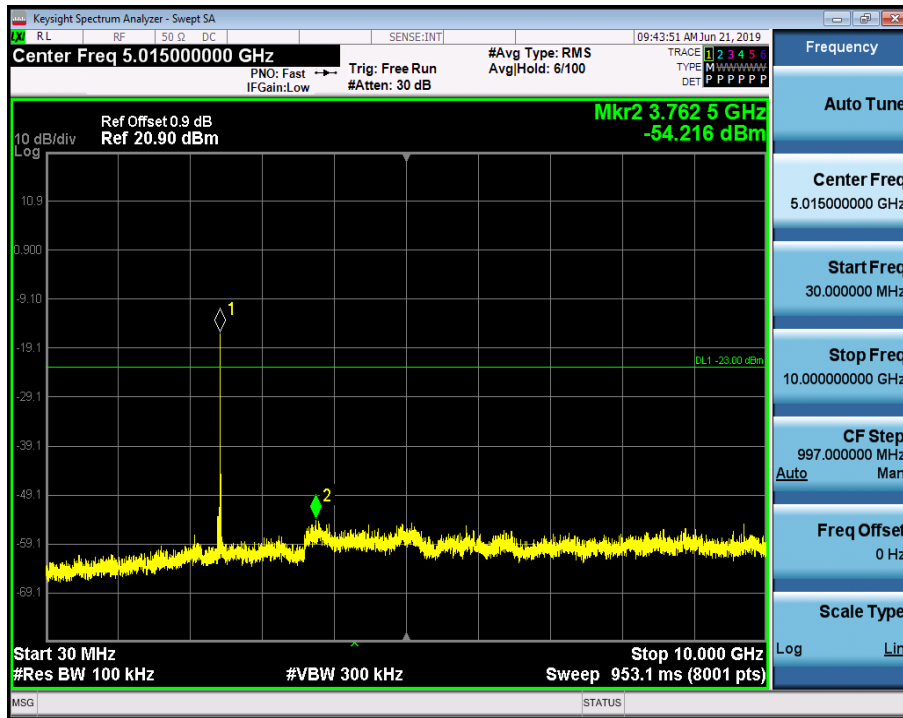


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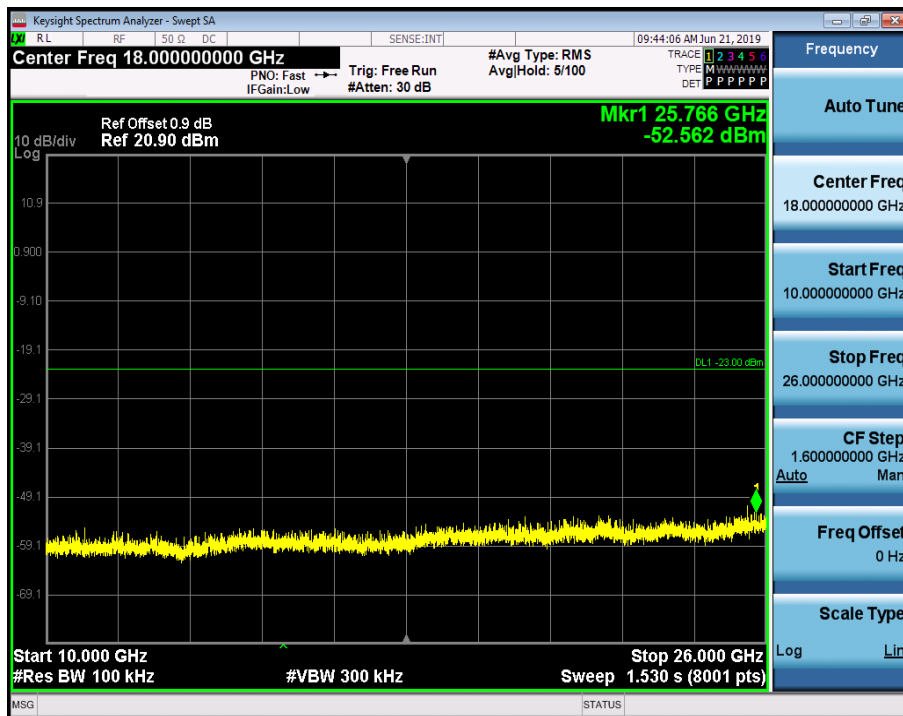
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中国·广州·经济技术开发区科学城科丰路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 www.sgsigroup.com.cn
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CSE_1



CSE_2

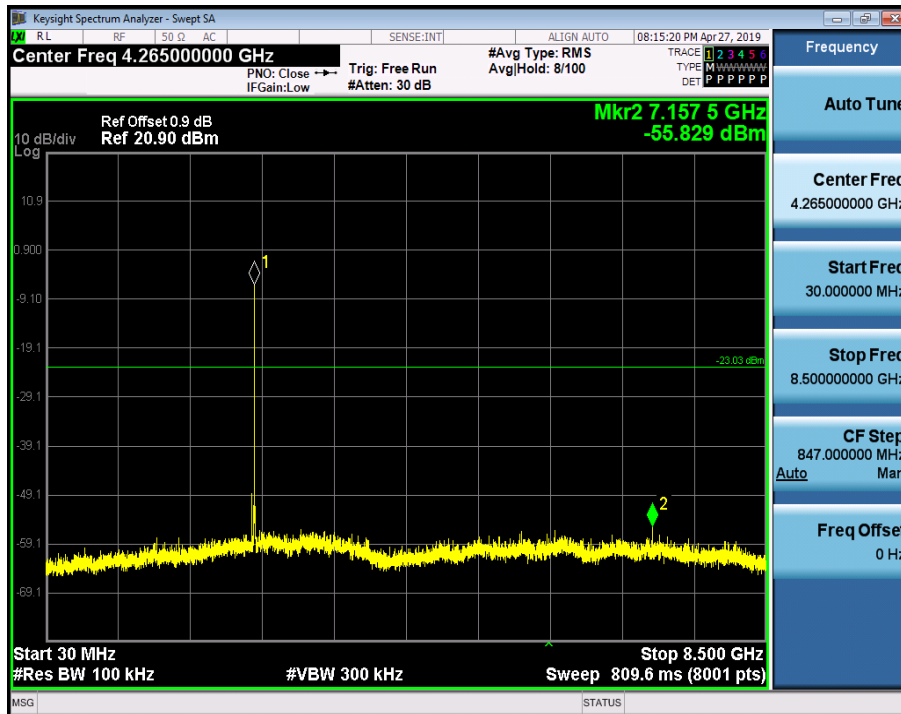


RF Conducted Spurious Emissions_BLE_2480_Ant1

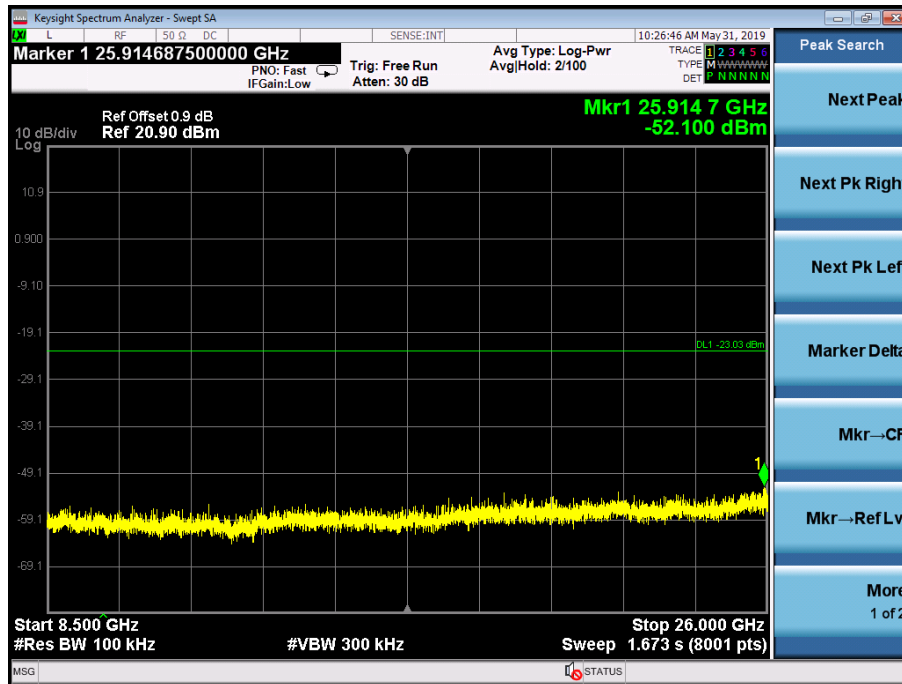
Pref



CSE_1



CSE_2



--End of Report--