

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250500131701

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TEST REPORT

Application No.:SHCR2505001317HSFCC ID:ZT5-ORIGINAL3IC:9798A-ORIGINAL3

Applicant: Suzhou Armocon Technology Co.,Ltd.

Address of Applicant: 3-5/F No77 SuHong Middle Road SIP Jiangsu China

Manufacturer: Suzhou Armocon Technology Co.,Ltd.

Address of Manufacturer: 3-5/F No77 SuHong Middle Road SIP Jiangsu China

Factory: Suzhou Armocon Technology Co.,Ltd.

Address of Factory: 3-5/F No77 SuHong Middle Road SIP Jiangsu China

Equipment Under Test (EUT):

EUT Name: Handheld massager **Model No.:** SURFER™ Originals

Trade Mark: LELO

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 3, August 2023

RSS-Gen Issue 5 Amendment 2 (February 2021)

Date of Receipt: 2025-05-23

Date of Test: 2025-05-24 to 2025-06-11

Date of Issue: 2025-06-12

Test Result: Pass*

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Member of the SGS Group (SGS SA)

^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record				
Version	Description	Date	Remark		
00	Original	2025-06-12	/		

Authorized for issue by:			
Tested By	Bril Wu		
	Bill Wu/Project Engineer		
Approved By	Parlam Zhan		
	Parlam Zhan / Reviewer	_	



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. SHEM-TRF-001 Rev. 02 Sep01, 2023 Report No.: SHCR25050

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Mat	Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result	
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass	
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass	
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass	
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass	



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7V Rechargeable battery	
Operation Frequency:	2402MHz to 2480MHz	
Modulation Type:	GFSK	
Number of Channels:	40	
Channel Spacing:	2MHz	
Antenna Type:	Multilayer Ceramic Antenna	
Antenna Gain:	2 dBi (Provided by manufacturer)	
S/N:	0237YdFOa5831P	
Firmware Version:	SURFER_Originals_REV.A	

4.2 Power level setting using in test:

Channel	Power setting
0	3.9
19	3.9
39	3.9

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	•
Serial port adapter plate	-	Test Plate 3	-

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
0	DE Dodieted newer	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Redicted Courious emission test	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

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



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- 1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).
- 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
- 3. Sample source: sent by customer.

4.6 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2024/12/18	2025-12-17
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2025-04-30	2026-04-29
Signal Generator	R&S	SMR20	SHEM006-1	2024-07-31	2025-07-30
Signal Generator	Agilent	N5182A	SHEM182-1	2024-07-31	2025-07-30
Communication Tester	R&S	CMW270	SHEM183-1	2025-04-30	2026-04-29
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Power Sensor	Keysight	U2021XA * 4	SHEM293-1	2024-07-31	2025-07-30
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2024-11-05	2026-11-04
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2024/12/18	2025-12-17
DC Power Supply	HP	6010A	SHEM222-1	2024/12/18	2025-12-17
Conducted test Cable	/	RF01~RF04	/	2024/12/18	2025-12-17
Switcher	Tonscend	JS0806	SHEM293-1	2024-07-31	2025-07-30
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Switcher+Power Sensor	TST	TSPS2023R	SHEM263-1	2024-07-31	2025-07-30
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2024/12/18	2025-12-17
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2024/12/18	2025-12-17
Communication Tester	R&S	CMW500	SHEM268-1	2025-04-30	2026-04-29
Loop Antenna (9kHz-30MHz)		FMZB1519	SHEM135-1	2024/12/18	2025-12-17
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2023-09-03	2025-09-02
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2025-04-12	2027-04-11
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2024-08-05	2026-08-04
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023-09-03	2025-09-02
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2023-09-03	2025-09-02
Pre-Amplifier	HP	8447D	SHEM236-1	2024/12/18	2025-12-17
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2024/12/18	2025-12-17
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
RE test Cable	/	PT18-NMNM-10M	SHEM217-2	2024/12/18	2025-12-17
Test software	ESE	E3	Version: 6.111221a	/	/



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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(b)(4)

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 Multilayer Ceramic Antenna and no consideration of replacement. The best case gain of the antenna is 2 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 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

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

The same and the same same same same same same same sam										
Pre-scan / Final test	Mode Code	Description								
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.								

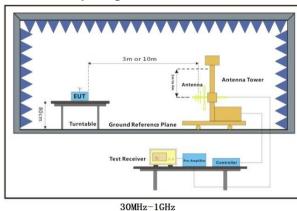


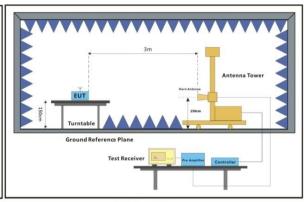
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7.1.3 Test Setup Diagram





Iz Above 1GHz

7.1.4 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is \geq 1/T (Duty cycle \leq 98%) or 10Hz (Duty cycle \geq 98%) for Average detection (AV) at frequency above 1GHz.

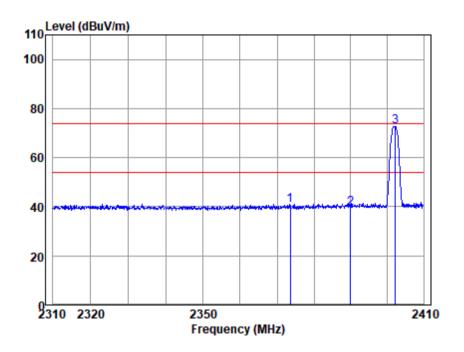


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit Remark Freq -----MHz dBuv dB/m dB dB dBuv/m dBuv/m dB 28.71 3.32 35.17 40.44 74.00 28.80 3.33 35.18 39.57 74.00 28.85 3.34 35.19 72.84 74.00 2373.611 43.58 74.00 -33.56 Peak 74.00 -34.43 Peak 2390.000 42.62 2402.250 75.84 -1.16 Peak

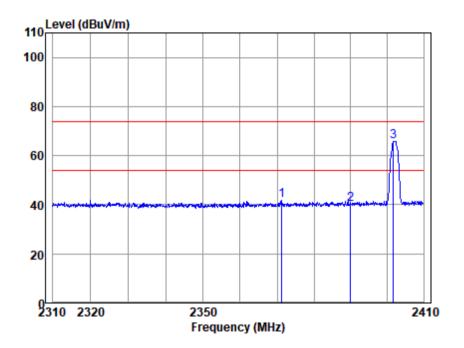


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2371.299	44.83	28.71	3.32	35.17	41.69	74.00	-32.31	Peak
2390.000	43.29	28.80	3.33	35.18	40.24	74.00	-33.76	Peak
2401.741	68.89	28.85	3.34	35.19	65.89	74.00	-8.11	Peak

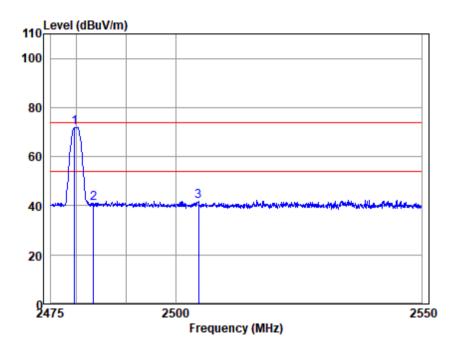


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL EUT/Project :1317HS

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.733	74.79	29.08	3.40	35.25	72.02	74.00	-1.98	Peak
2483.500	43.64	29.09	3.41	35.26	40.88	74.00	-33.12	Peak
2504.657	44.68	29.13	3.43	35.28	41.96	74.00	-32.04	Peak

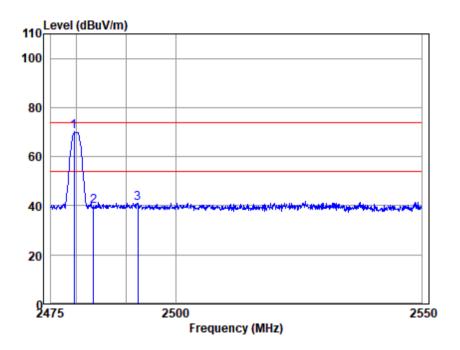


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.659	72.80	29.08	3.40	35.25	70.03	74.00	-3.97	Peak
2483.500	42.62	29.09	3.41	35.26	39.86	74.00	-34.14	Peak
2492.350	43.94	29.10	3.41	35.26	41.19	74.00	-32.81	Peak

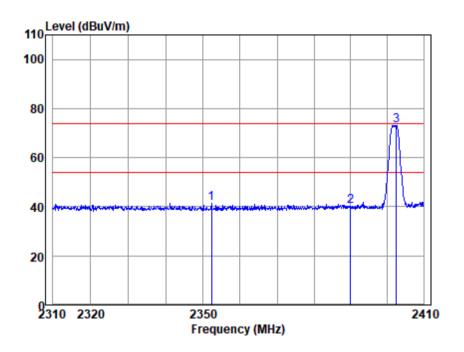


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2352.282	44.49	28.61	3.30	35.15	41.25	74.00	-32.75	Peak
2390.000	43.05	28.80	3.33	35.18	40.00	74.00	-34.00	Peak
2402.454	76.17	28.85	3.34	35.19	73.17	74.00	-0.83	Peak

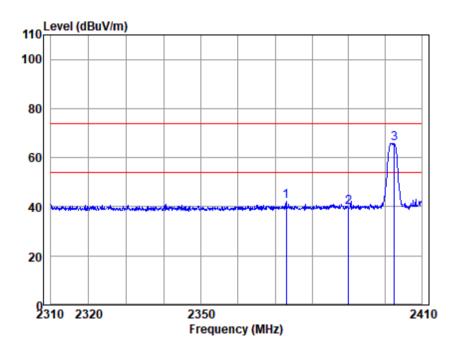


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.008	45.55	28.71	3.32	35.17	42.41	74.00	-31.59	Peak
2390.000	42.93	28.80	3.33	35.18	39.88	74.00	-34.12	Peak
2402.454	68.86	28.85	3.34	35.19	65.86	74.00	-8.14	Peak

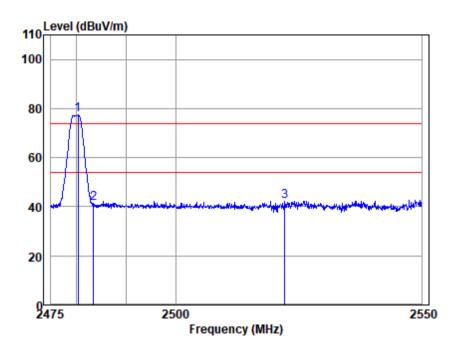


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity : HORIZONTAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.474	80.18	29.08	3.40	35.25	77.41	74.00	3.41	Peak
2483.500	44.13	29.09	3.41	35.26	41.37	74.00	-32.63	Peak
2522.064	45.14	29.13	3.44	35.30	42.41	74.00	-31.59	Peak

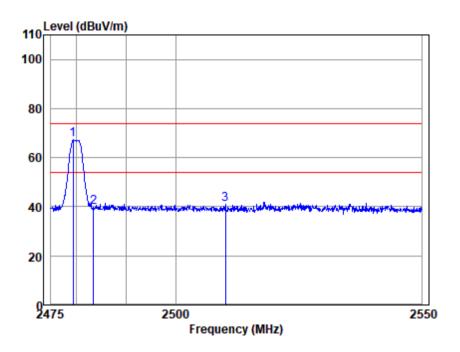


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity : VERTICAL EUT/Project :1317HS

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.437	69.99	29.08	3.40	35.25	67.22	74.00	-6.78	Peak
2483.500	42.48	29.09	3.41	35.26	39.72	74.00	-34.28	Peak
2510.046	43.78	29.13	3.43	35.28	41.06	74.00	-32.94	Peak



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7.2 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

	1	1
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
960-1000	500	3

7.2.1 E.U.T. Operation

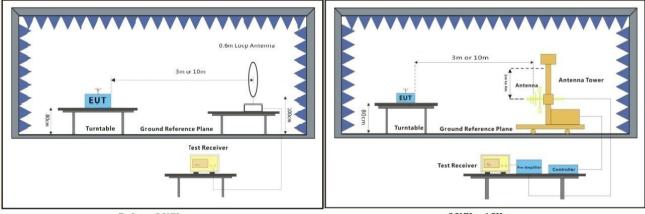
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



Below 30MHz 30MHz-1GHz



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7.2.4 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance 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.

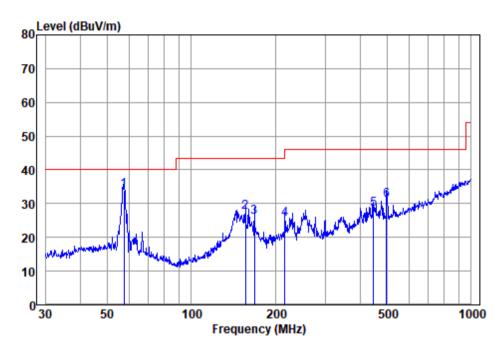


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Test Mode: 00; Polarity: Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Test mode :00

		Read	Antenna	Cable	Preamp	Emissio	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	57.392	52.22	13.42	1.50	33.20	33.94	40.00	-6.06	QP
2	155.910	44.03	13.80	2.48	33.00	27.31	43.50	-16.19	QP
3	167.824	43.27	12.90	2.86	33.00	26.03	43.50	-17.47	QP
4	216.024	45.34	9.86	3.11	32.93	25.38	46.00	-20.62	QP
5	447.982	39.22	17.17	4.76	32.70	28.45	46.00	-17.55	QP
6	497.677	40.78	17.96	4.95	32.80	30.89	46.00	-15.11	QP
								_	

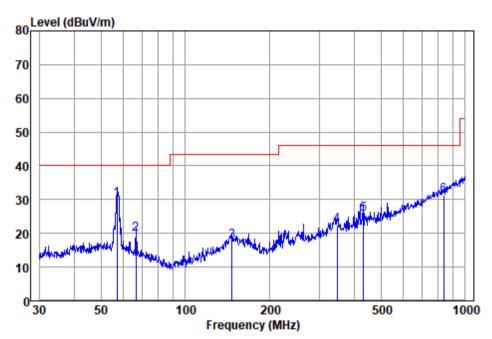


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Test Mode: 00; Polarity: Vertical



Antenna Polarity :VERTICAL EUT/Project :1317HS Test mode :00

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.991	48.18	13.50	1.49	33.20	29.97	40.00	-10.03	QP
2	66.499	39.07	12.15	1.67	33.20	19.69	40.00	-20.31	QP
3	146.888	34.62	13.60	2.44	33.01	17.65	43.50	-25.85	QP
4	348.027	36.57	14.60	4.09	32.71	22.55	46.00	-23.45	QP
5	432.546	37.03	16.79	4.60	32.73	25.69	46.00	-20.31	QP
6	836.244	33.93	22.90	6.67	32.09	31.41	46.00	-14.59	QP
 		1 -	1 . 1				1 -	_	



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7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.3.1 E.U.T. Operation

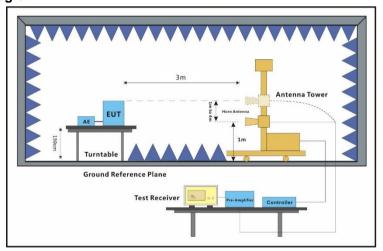
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

7.0.2 .000.11		56. Pti6
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
- 3. As shown in this section, 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is \geq 1/T (Duty cycle \leq 98%) or 10Hz (Duty cycle \geq 98%) for Average detection (AV) at frequency above 1GHz.

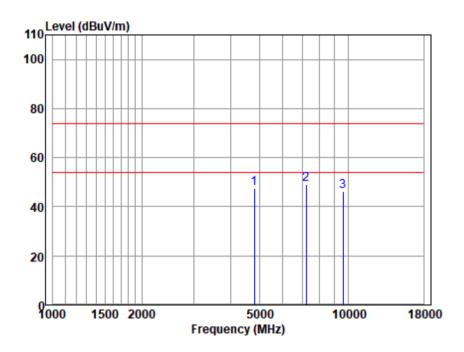


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Antenna Polarity : HORIZONTAL EUT/Project :1317HS

9613.430 33.43

Read Antenna Cable Preamp Emission Limit Over Line Limit Remark Level Factor Loss Factor Level Limit Remark Freq ----dB dB dBuv/m dBuv/m dB 74.00 -26.32 Peak MHz dBuv dB/m 4804.110 45.67 33.57 5.23 36.79 47.68 36.24 7.33 35.53 49.25 74.00 -24.75 Peak 37.75 8.74 33.58 46.34 74.00 -27.66 Peak 7200.309 41.21

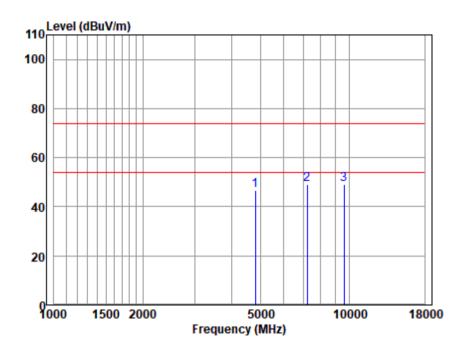


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.110	44.50	33.57	5.23	36.79	46.51	74.00	-27.49	Peak
7200.309	40.93	36.24	7.33	35.53	48.97	74.00	-25.03	Peak
9613.430	36.12	37.75	8.74	33.58	49.03	74.00	-24.97	Peak

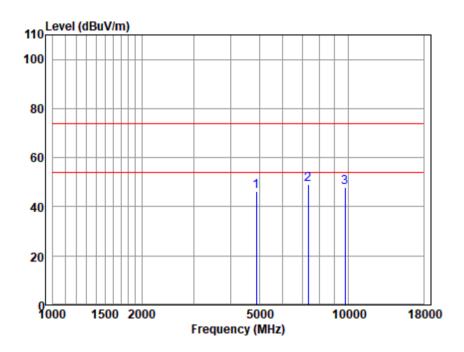


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit Remark Freq ----dBuv/m dB MHz dBuv dB/m dB dB dBuv/m 4880.043 44.29 33.66 5.28 36.81 46.42 74.00 -27.58 Peak 7.44 35.42 49.15 36.33 7326.267 40.80 74.00 -24.85 Peak 37.54 8.80 33.50 47.76 74.00 -26.24 Peak 9753.371 34.92

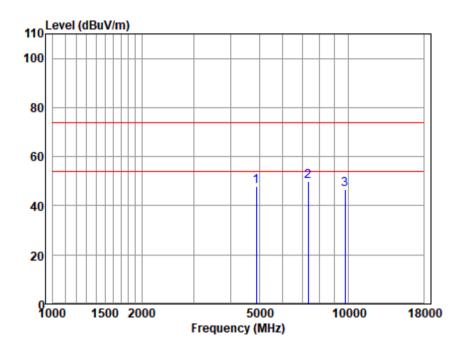


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	45.62	33.66	5.28	36.81	47.75	74.00	-26.25	Peak
7326.267	41.47	36.33	7.44	35.42	49.82	74.00	-24.18	Peak
9753.371	33.68	37.54	8.80	33.50	46.52	74.00	-27.48	Peak

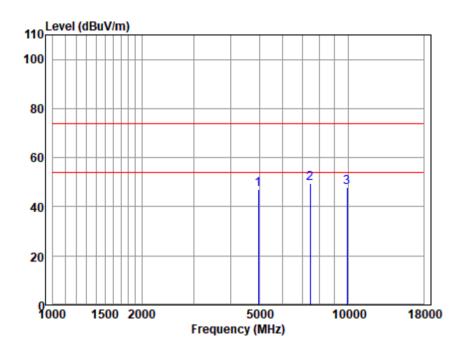


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity :HORIZONTAL

EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.307	44.96	33.65	5.34	36.83	47.12	74.00	-26.88	Peak
7432.914	41.10	36.31	7.53	35.34	49.60	74.00	-24.40	Peak
9923.991	34.61	37.62	8.88	33.41	47.70	74.00	-26.30	Peak

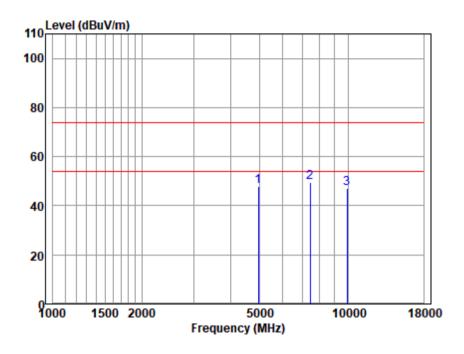


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.307	45.85	33.65	5.34	36.83	48.01	74.00	-25.99	Peak
7432.914	40.86	36.31	7.53	35.34	49.36	74.00	-24.64	Peak
9923.991	33.81	37.62	8.88	33.41	46.90	74.00	-27.10	Peak

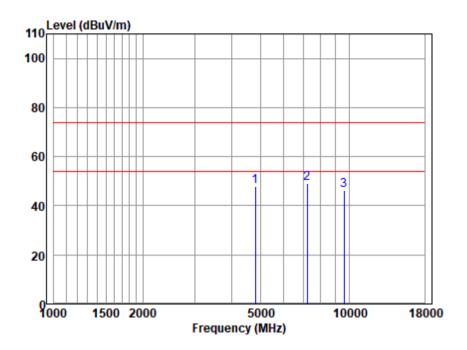


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit Remark Freq ----dBuv/m dB dB dB dBuv/m MHz dBuv dB/m 4804.110 45.97 33.57 5.23 36.79 47.98 74.00 -26.02 Peak 36.24 7.33 35.53 49.18 37.75 8.74 33.58 46.11 74.00 -24.82 Peak 7200.309 41.14 9613.430 33.20 74.00 -27.89 Peak

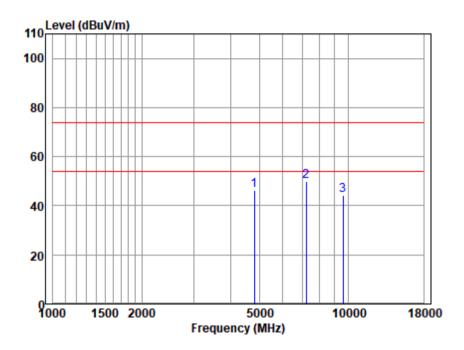


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.110	44.29	33.57	5.23	36.79	46.30	74.00	-27.70	Peak
7200.309	41.81	36.24	7.33	35.53	49.85	74.00	-24.15	Peak
9613.430	31.54	37.75	8.74	33.58	44.45	74.00	-29.55	Peak

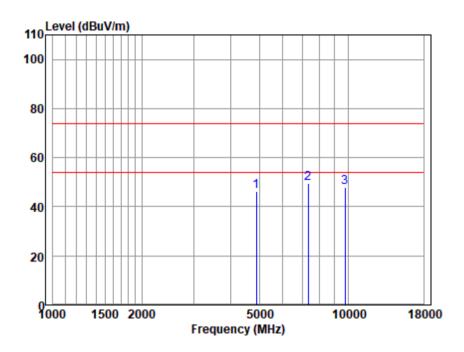


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Fren					Emission Level			Domark
rreq	LEVEL	ractor	LUSS	ractor	LEVEI	LINE	LIMIL	KCIIIGI K
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	44.15	33.66	5.28	36.81	46.28	74.00	-27.72	Peak
7326.267	41.33	36.33	7.44	35.42	49.68	74.00	-24.32	Peak
9753.371	34.89	37.54	8.80	33.50	47.73	74.00	-26.27	Peak

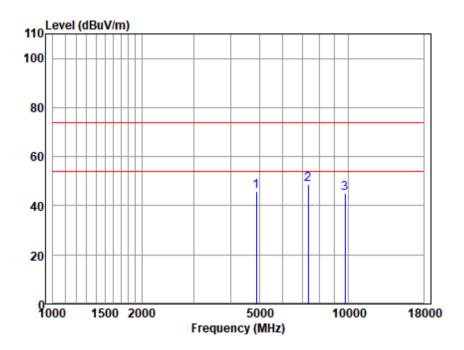


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.043	43.88	33.66	5.28	36.81	46.01	74.00	-27.99	Peak
7326.267	40.44	36.33	7.44	35.42	48.79	74.00	-25.21	Peak
9753.371	32.35	37.54	8.80	33.50	45.19	74.00	-28.81	Peak

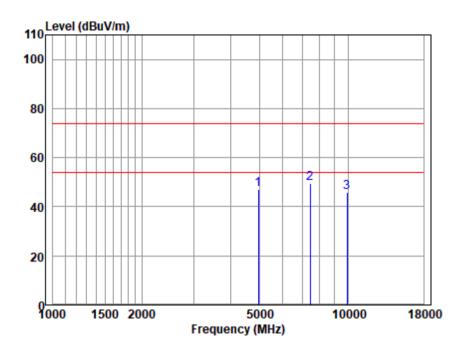


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity :HORIZONTAL EUT/Project :1317HS

Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit Remark Freq ----dBuv/m dB MHz dBuv dB/m dB dB dBuv/m 33.65 5.34 36.83 47.26 4960.307 45.10 74.00 -26.74 Peak 7432.914 41.20 36.31 7.53 35.34 49.70 74.00 -24.30 Peak 9923.991 32.88 37.62 8.88 33.41 45.97 74.00 -28.03 Peak

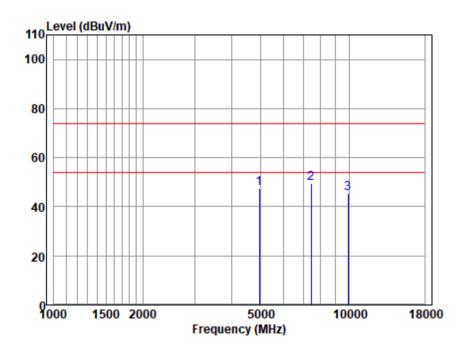


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Antenna Polarity :VERTICAL EUT/Project :1317HS

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.307	45.21	33.65	5.34	36.83	47.37	74.00	-26.63	Peak
7432.914	40.87	36.31	7.53	35.34	49.37	74.00	-24.63	Peak
9923.991	32.20	37.62	8.88	33.41	45.29	74.00	-28.71	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.4 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)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850	1 for frequency hopping systems and digital modulation		

7.4.1 E.U.T. Operation

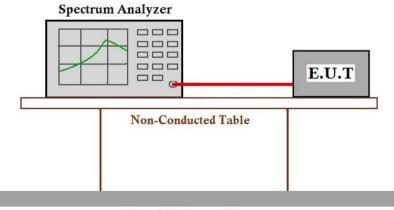
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.





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7.5 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

7.5.1 E.U.T. Operation

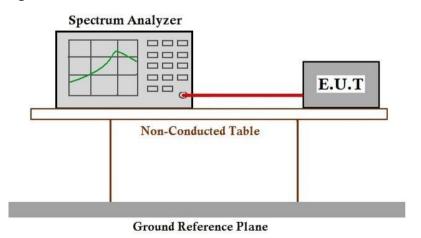
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data



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7.6 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:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.6.1 E.U.T. Operation

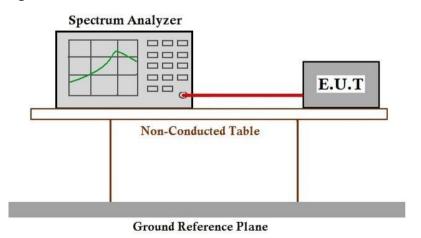
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data



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7.7 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).

7.7.1 E.U.T. Operation

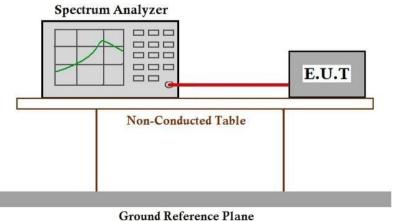
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

	the state of the s						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					

7.7.3 Test Setup Diagram



Ground Reference Fran

7.7.4 Measurement Procedure and Data



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7.8 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).

7.8.1 E.U.T. Operation

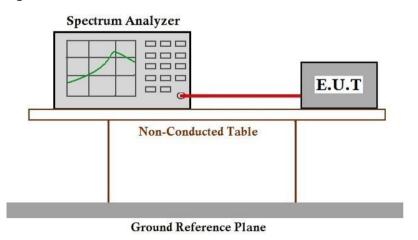
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

	the state of the s						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.					

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data



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7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 (2013) Section 6.9.3

7.9.1 E.U.T. Operation

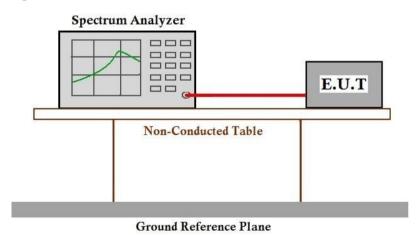
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2505001317HS

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2505001317HS

10 Appendix

10.1 Appendix A: DTS Bandwidth

10.1.1 Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.680	2401.612	2402.292	0.5	PASS
BLE_1M	Ant1	2440	0.680	2439.616	2440.296	0.5	PASS
		2480	0.676	2479.624	2480.300	0.5 PA 0.5 PA 0.5 PA 0.5 PA 0.5 PA 0.5 PA	PASS
		2402	1.276	2401.288	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.336	2439.260	2440.596	0.5	PASS
		2480	1.392	2479.248	2480.640	0.5	PASS

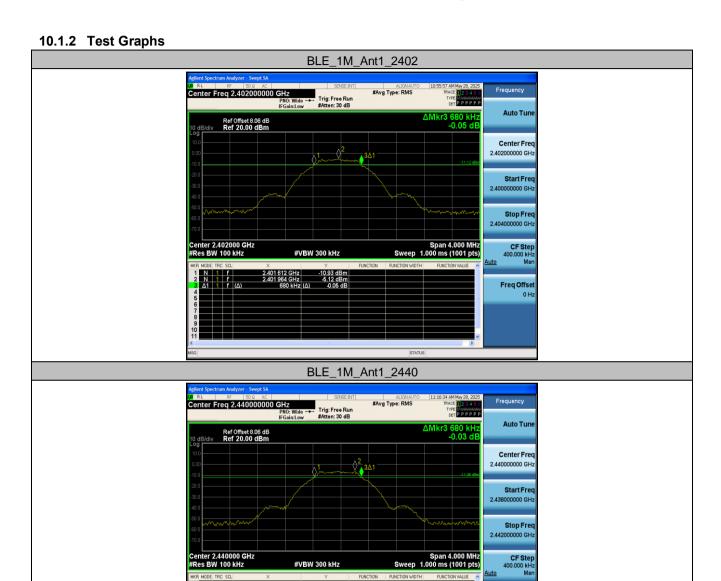


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Freq Offset



BLE_1M_Ant1_2480



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BLE_2M_Ant1_2440





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10.2 Appendix B: Occupied Channel Bandwidth

10.2.1 Test Result

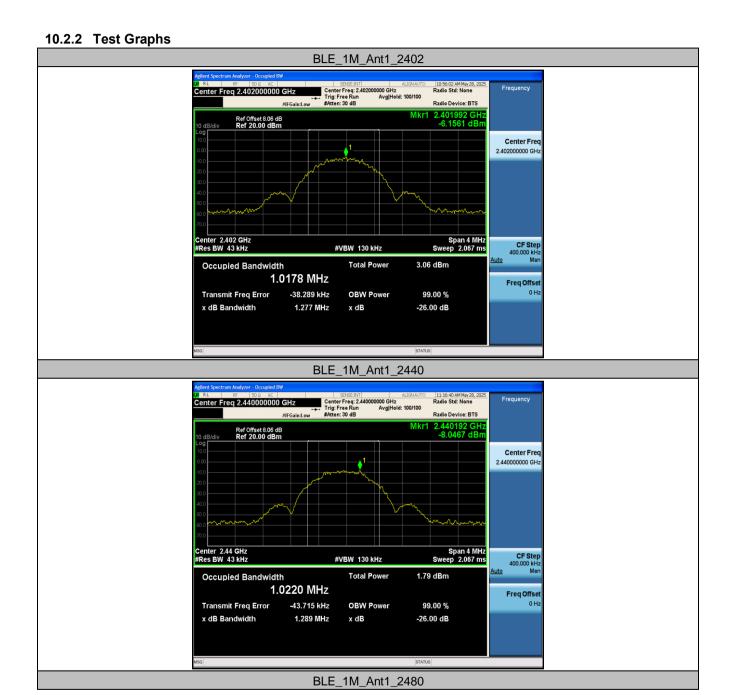
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.0178	2401.4528	2402.4706		
BLE_1M	Ant1	2440	1.0220	2439.4453	2440.4673		
		2480	1.0352	2479.4364	2480.4716		
		2402	2.0654	2400.9276	2402.9930		
BLE_2M	Ant1	2440	2.0520	2438.9346	2440.9866		
		2480	2.0383	2478.9456	2480.9839		



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	-4.30	≤30	PASS
BLE_1M	Ant1	2440	-5.37	≤30	PASS
		2480	-5.51	≤30	PASS
BLE_2M		2402	-4.73	≤30	PASS
	Ant1	2440	-5.51	≤30	PASS
		2480	-6.02	≤30	PASS

Test Mode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
		2402	-2.30	≤36.02	PASS
BLE_1M	Ant1	2440	-3.37	≤36.02	PASS
		2480	-3.51	≤36.02	PASS
BLE_2M		2402	-2.73	≤36.02	PASS
	Ant1	2440	-2.51	≤36.02	PASS
		2480	-4.02	≤36.02	PASS



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10.3.2 Test Graphs





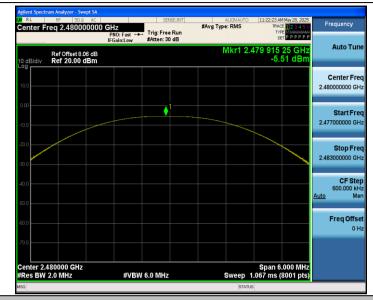
BLE_1M_Ant1_2480



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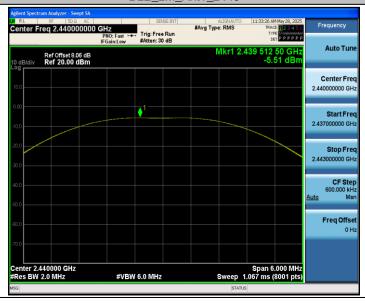
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BLE_2M_Ant1_2402



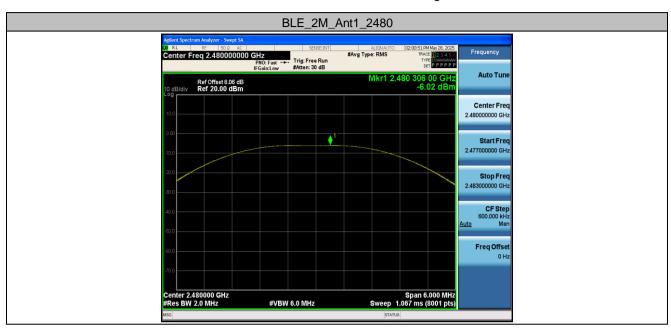
BLE_2M_Ant1_2440





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10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

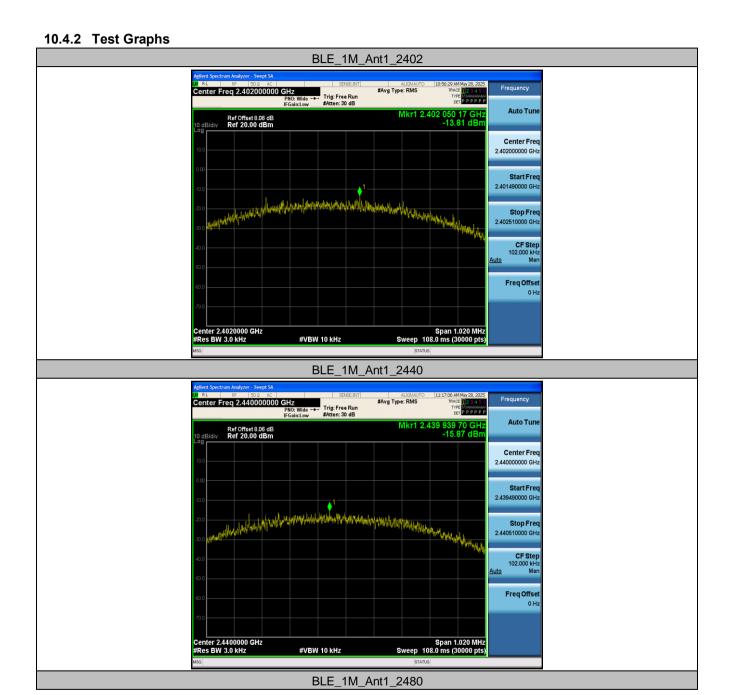
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	Ant1	2402	-13.81	≤8.00	PASS
BLE_1M		2440	-15.87	≤8.00	PASS
		2480	-16.57	≤8.00	PASS
	Ant1	2402	-16.42	≤8.00	PASS
BLE_2M		2440	-18.21	≤8.00	PASS
		2480	-17.95	≤8.00	PASS



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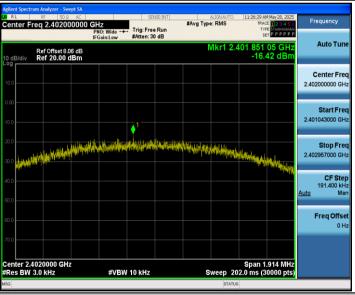
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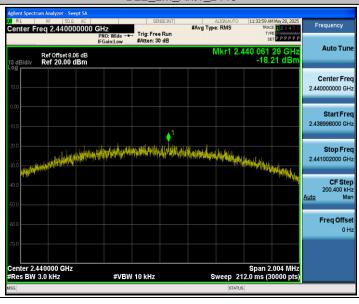
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

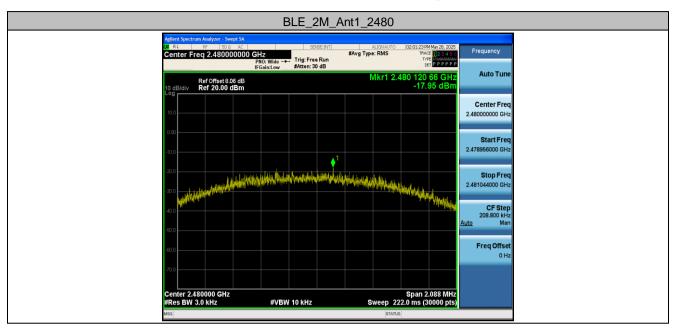




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10.5 Appendix E: Band edge measurements

10.5.1 Test Result

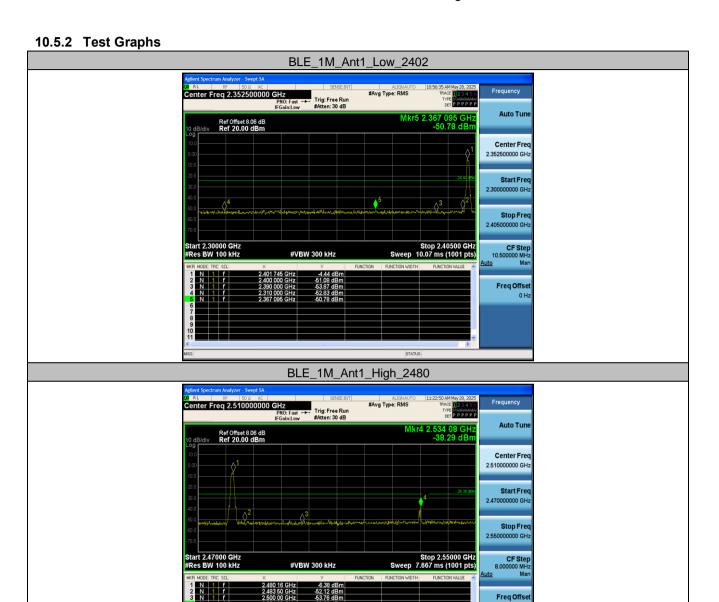
	Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
В	BLE 1M	Ant1	Low	2402	-4.44	-50.78	≤-24.44	PASS
	DLE_TIVI		High	2480	-6.38	-38.29	≤-26.38	PASS
BLE_2M		۸ م	Low	2402	-7.50	-38.68	≤-27.5	PASS
	Ant1	High	2480	-7.84	-46.84	≤-27.84	PASS	



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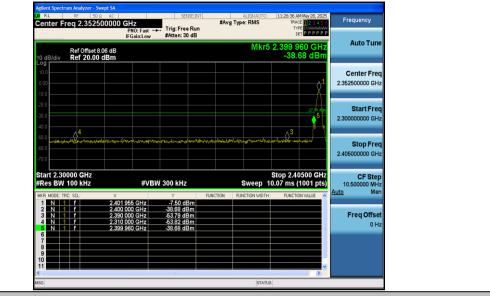
BLE_2M_Ant1_Low_2402



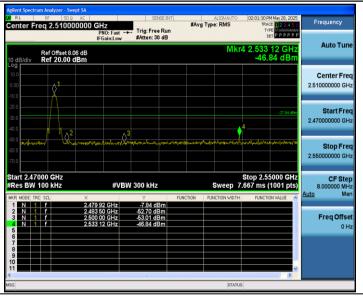
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BLE_2M_Ant1_High_2480





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10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

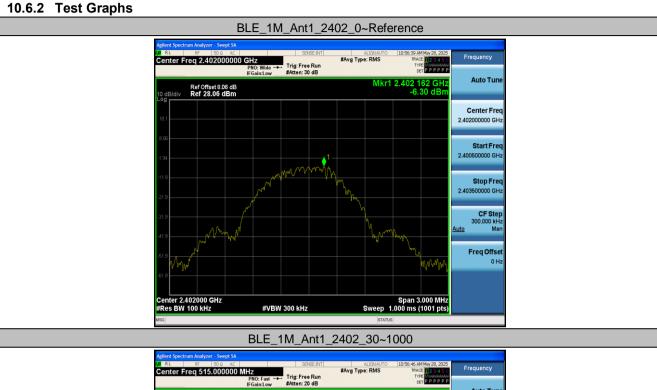
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
	Ant1	2402	Reference	-6.30	-6.30		PASS
			30~1000	-6.30	-52.91	≤-26.3	PASS
			1000~26500	-6.30	-42.2	≤-26.3	PASS
		2440	Reference	-6.79	-6.79		PASS
BLE_1M			30~1000	-6.79	-54.07	≤-26.79	PASS
			1000~26500	-6.79	-43.16	≤-26.79	PASS
		2480	Reference	-6.83	-6.83		PASS
			30~1000	-6.83	-52.81	≤-26.83	PASS
			1000~26500	-6.83	-42.54	≤-26.83	PASS
	Ant1	2402	Reference	-7.21	-7.21		PASS
			30~1000	-7.21	-52.28	≤-27.21	PASS
			1000~26500	-7.21	-42.99	≤-27.21	PASS
		2440	Reference	-8.74	-8.74		PASS
BLE_2M			30~1000	-8.74	-51.81	≤-28.74	PASS
			1000~26500	-8.74	-43.1	≤-28.74	PASS
		2480	Reference	-9.46	-9.46		PASS
			30~1000	-9.46	-52.2	≤-29.46	PASS
			1000~26500	-9.46	-42.49	≤-29.46	PASS

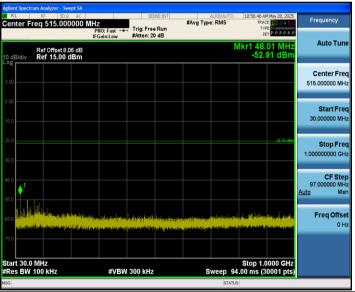


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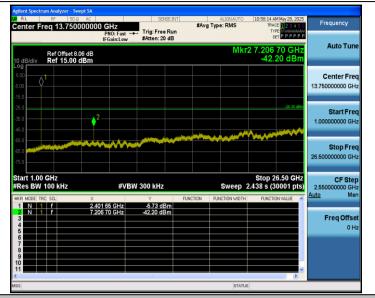
BLE_1M_Ant1_2402_1000~26500



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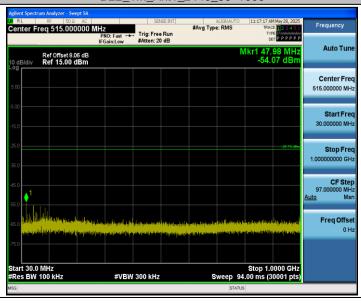
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BLE_1M_Ant1_2440_0~Reference



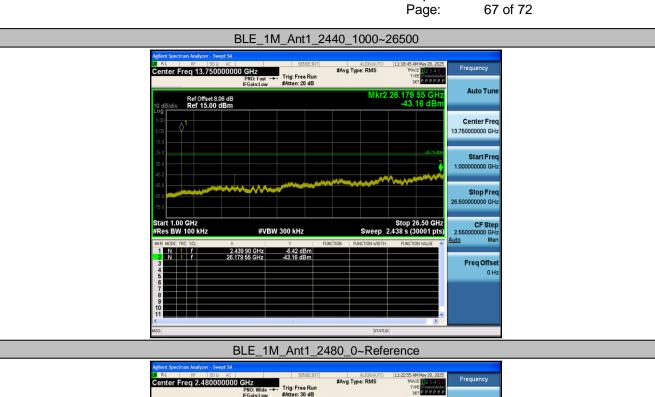
BLE_1M_Ant1_2440_30~1000





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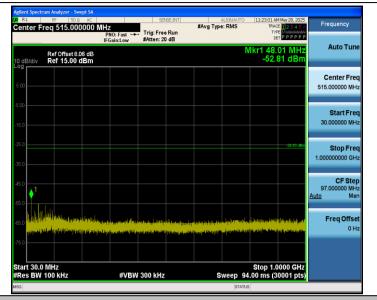
BLE_1M_Ant1_2480_30~1000



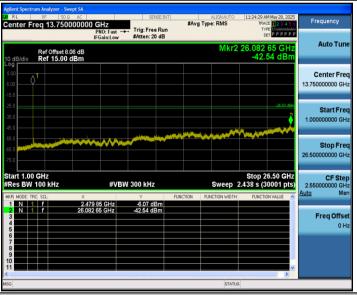
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

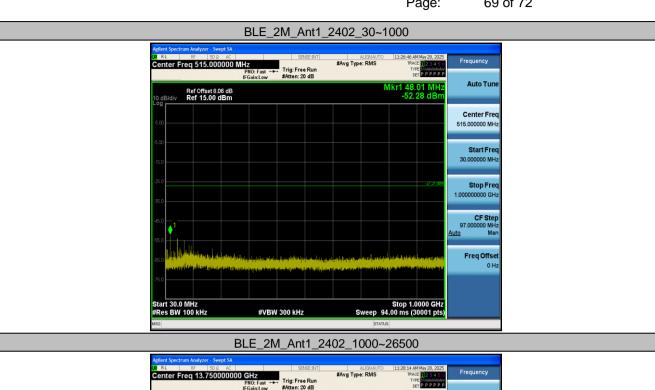




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BLE_2M_Ant1_2440_0~Reference



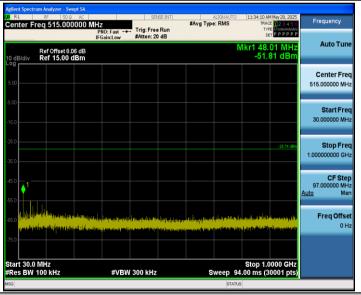
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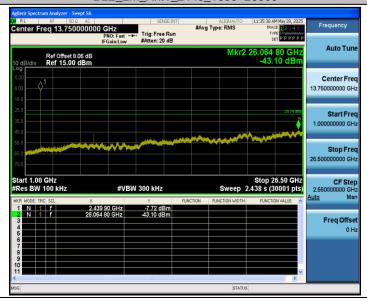
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BLE_2M_Ant1_2440_30~1000



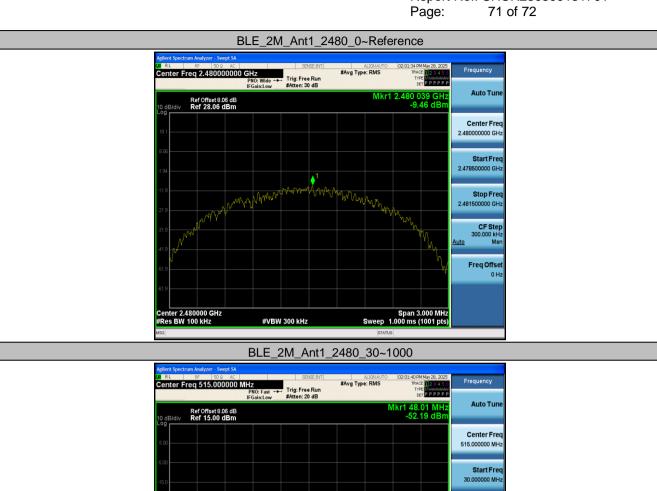
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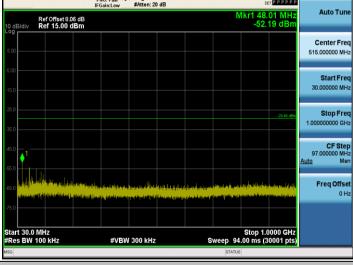




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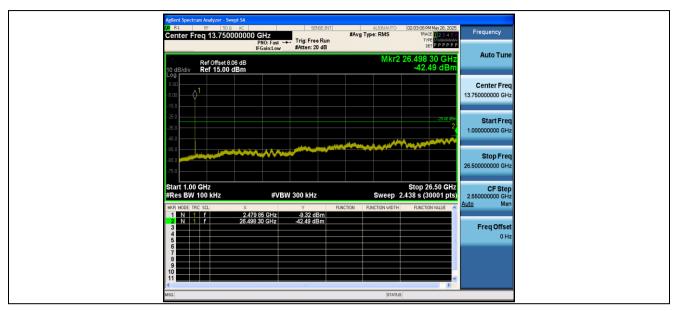


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