

Report No.: SHCR230600124702

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TEST REPORT

Application No.: SHCR2306001247ME

FCC ID: 2BBZIH020S

Applicant: Orka Health Co., Ltd.

Address of Applicant: Room 01B101,Building 2, No. 118 Rongke Road, Shanghai, China

Manufacturer: Orka Health Co., Ltd.

Address of Manufacturer: Room 01B101, Building 2, No. 118 Rongke Road, Shanghai, China

Factory: Orka Health Co., Ltd.

Address of Factory: Room 01B101, Building 2, No. 118 Rongke Road, Shanghai, China

Equipment Under Test (EUT):

EUT Name: Hearing Aid Model No.: H020S
Trade Mark: ORKA

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

Date of Receipt: 2023-06-20

Date of Test: 2023-06-21 to 2023-06-28

Date of Issue: 2023-07-17

Test Result: Pass*

Orlan Zhan

Parlam Zhan Laboratory Manager

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f (80-21) 01910078

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



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	Revision Record			
Version	Description	Date	Remark	
00	Original	2023-07-17	1	

Authorized for issue by:		
	Wade thoug	
	Wade Zhang/Project Engineer	
	Parlam Zhan	
	Parlam Zhan / Reviewer	



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Test Summary

Radio Spectrum Technical Requirement					
Item Standard Method Requirement F				Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass	

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		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	Cuspair 0 10.241	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note: The left earbud and right earbud have same schematics design, PCB layout and RF antenna, only the left earbud was chosen and tested for all items.



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General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7V Li-ion Battery
Test Voltage:	DC 3.7V
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps
Bluetooth Version:	V5.0 LE
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.9 dBi (Provided by manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Laptop	LENOVO	L460	-	
SecureCRT	VanDyke	V 6.2.0	-	
Serial port adapter plate	-	Test Plate 3	-	
Test Board	Test Board Orka		-	

4.3 Power level setting using in test

Channel	Power setting
0	0
19	0
39	0



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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 Dadieted never	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	De diete d Counierre ensisaien teet	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.

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).



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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	2.2.2.2.2.2.2.2.			2 2 = 230	
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2023-06-01	2024-05-31
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	1	/
Coupler	e-meca	803-S-1	SHEM186-1	1	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	/	RF01~RF04	1	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	1	1
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	1	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	1	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	1	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	1	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	1	/
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	2021-05-25	2024-05-24
RE test Cable	1	RE01, RE02, RE06	1	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	1	1



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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 FPC antenna and no consideration of replacement. The best case gain of the antenna is 1.9dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

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	

7.1.1 E.U.T. Operation

Operating Environment:

Humidity: 64.5 % RH Atmospheric Pressure: 1010 mbar Temperature: 25.3 °C

7 1 1 Test Mode Description

7.1.1 Test mode bescription									
Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							



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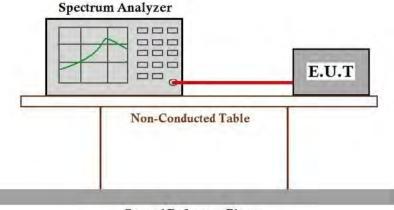
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7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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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

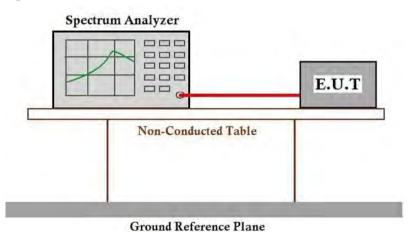
Operating Environment:

Temperature: 25.3 °C Humidity: 64.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Tiziz Took mode becomplien									
Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

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

7.3.1 E.U.T. Operation

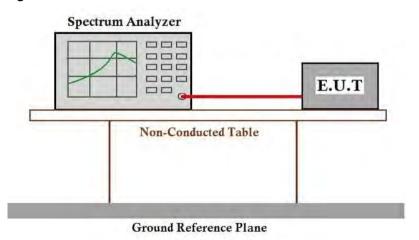
Operating Environment:

Temperature: 25.3 °C Humidity: 64.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 64.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							



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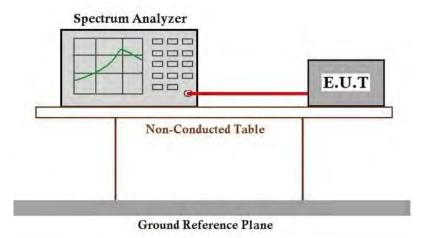
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

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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 §1 5.205(c).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 64.5 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.							



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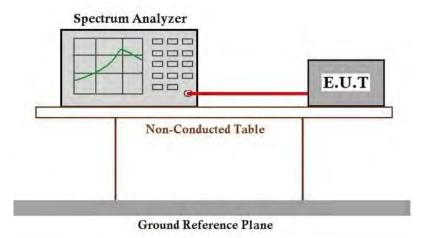
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 64.1 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

7.6.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						



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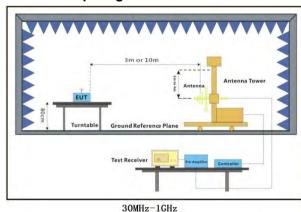
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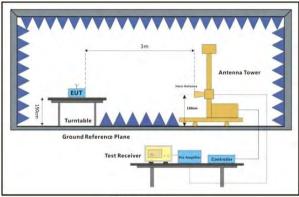


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7.6.3 Test Setup Diagram





Above 1GHz

7.6.4 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.



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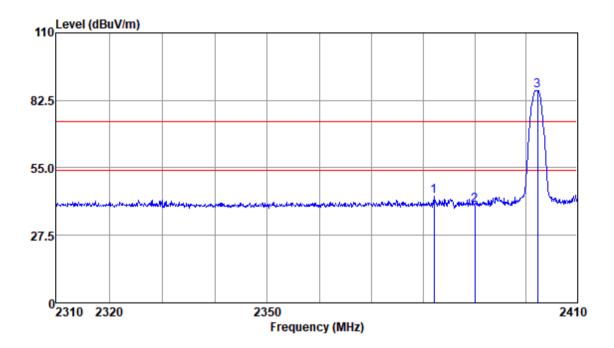
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2382.08	46.62	28.76	3.14	35.17	43.35	74.00	-30.65	Peak
2390.00	43.23	28.80	3.13	35.18	39.98	74.00	-34.02	Peak
2402.25	89.70	28.85	3.13	35.19	86.49	74.00	12.49	Peak

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



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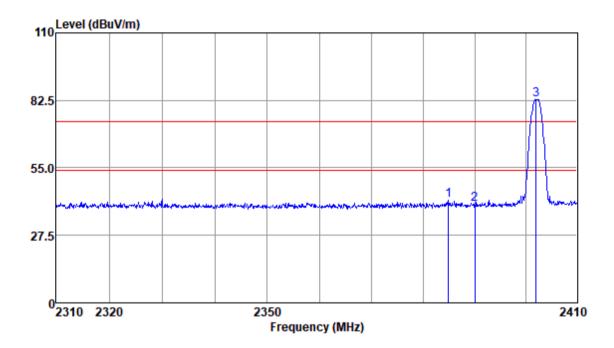
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2384.91	45.18	28.80	3.14	35.18	41.94	74.00	-32.06	Peak
2390.00	43.62	28.80	3.13	35.18	40.37	74.00	-33.63	Peak
2401.95	86.14	28.85	3.13	35.19	82.93	74.00	8.93	Peak

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



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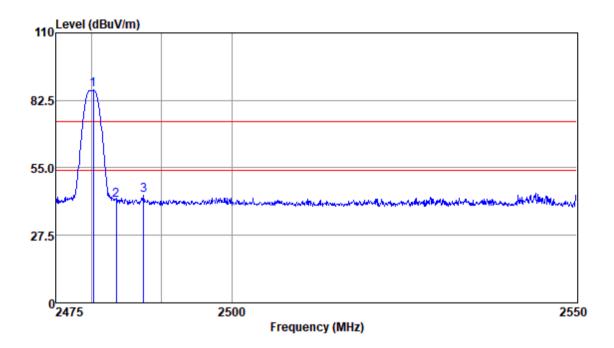
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity : HORIZONTAL

Enog					Emission Level			Romank
rreq	rever	ractor	LUSS	ractor		LINE		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.25	89.64	29.08	3.20	35.25	86.67	74.00	12.67	Peak
2483.50	44.95	29.09	3.20	35.26	41.98	74.00	-32.02	Peak
2487.44	46.71	29.09	3.20	35.26	43.74	74.00	-30.26	Peak

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



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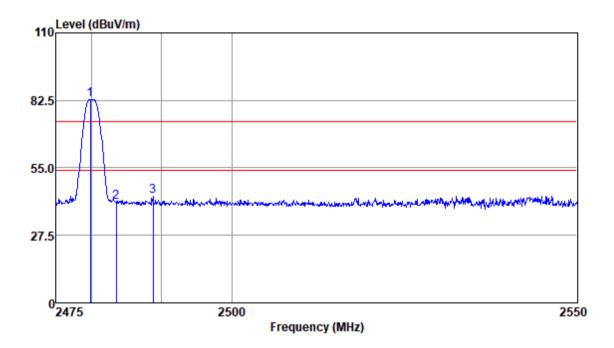
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Test Mode: 02; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.81	85.95	29.08	3.20	35.25	82.98	74.00	8.98	Peak
2483.50	43.88	29.09	3.20	35.26	40.91	74.00	-33.09	Peak
2488.78	46.19	29.09	3.23	35.26	43.25	74.00	-30.75	Peak

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



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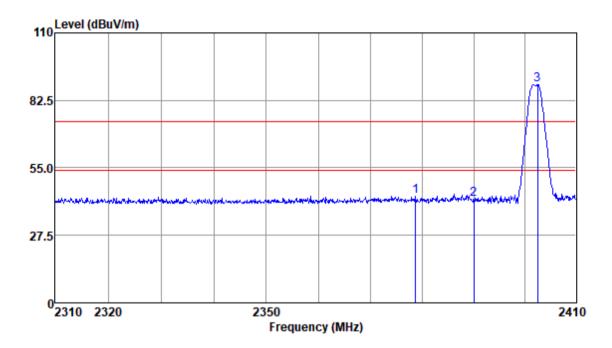
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2378.75	46.87	28.76	3.14	35.17	43.60	74.00	-30.40	Peak
2390.00	45.30	28.80	3.13	35.18	42.05	74.00	-31.95	Peak
2402.45	92.14	28.85	3.13	35.19	88.93	74.00	14.93	Peak

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



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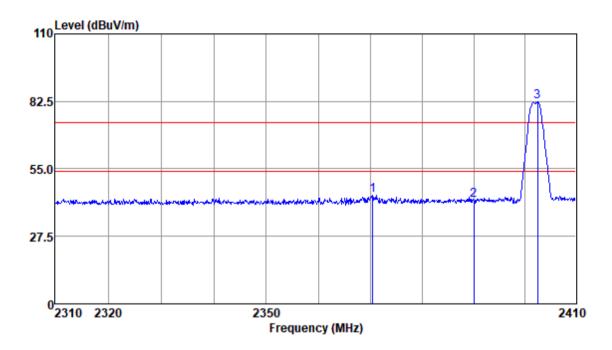
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2370.40	47.53	28.71	3.14	35.17	44.21	74.00	-29.79	Peak
2390.00	45.31	28.80	3.13	35.18	42.06	74.00	-31.94	Peak
2402.45	85.47	28.85	3.13	35.19	82.26	74.00	8.26	Peak

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



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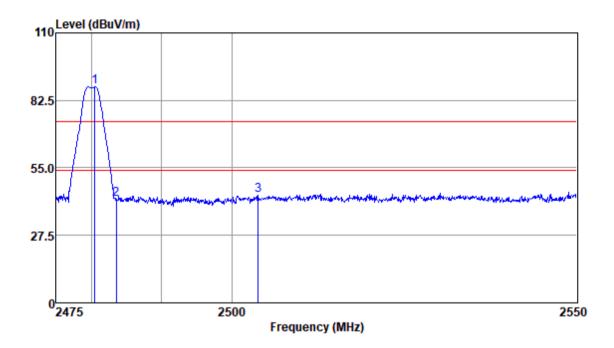
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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.47	91.01	29.08	3.20	35.25	88.04	74.00	14.04	Peak
2483.50	45.09	29.09	3.20	35.26	42.12	74.00	-31.88	Peak
2503.83	46.82	29.13	3.23	35.28	43.90	74.00	-30.10	Peak

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



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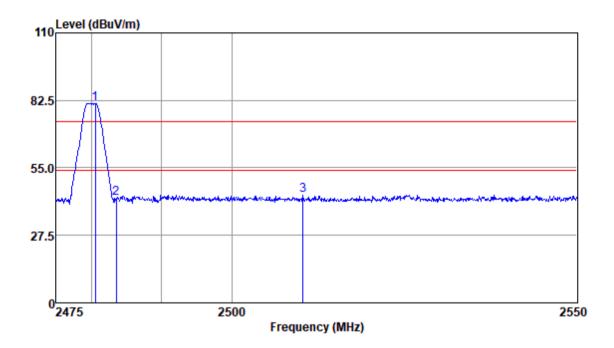
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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

Enog					Emission Level			Pomank
rreq	rever	ractor	LUSS	ractor				
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.55	84.34	29.08	3.20	35.25	81.37	74.00	7.37	Peak
2483.50	45.66	29.09	3.20	35.26	42.69	74.00	-31.31	Peak
2510.27	46.88	29.13	3.27	35.28	44.00	74.00	-30.00	Peak

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



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7.7 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

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
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Humidity: 63.8 % RH Temperature: 25.3 °C Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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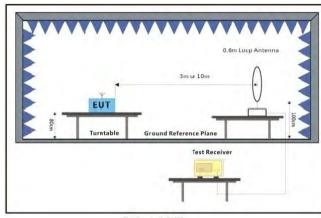
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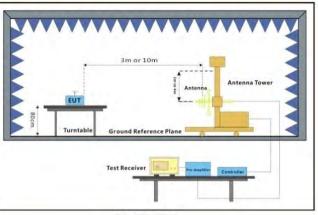


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7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.7.4 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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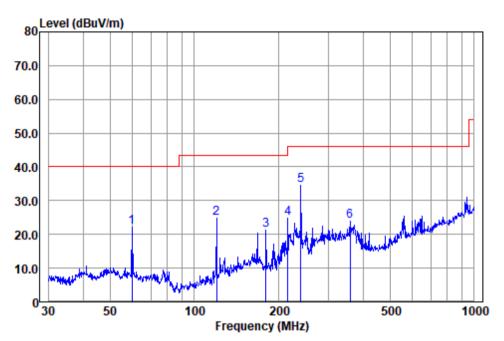
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Test Mode: 02; Polarity: Horizontal



Antenna Polarity : HORIZONTAL

EUT/Project :1247ME

Test mode :02

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	59.859	41.51	13.02	1.20	33.60	22.13	40.00	-17.87	QP
2	119.856	45.16	11.10	2.06	33.56	24.76	43.50	-18.74	QP
3	180.017	40.67	11.60	2.47	33.37	21.37	43.50	-22.13	QP
4	216.024	44.91	9.86	3.22	33.22	24.77	46.00	-21.23	QP
5	239.987	53.39	11.00	3.15	33.13	34.41	46.00	-11.59	QP
6	360.448	37.53	14.70	4.53	32.97	23.79	46.00	-22.21	QP
Note:E	mission L	evel=Re	ad Level	+Anteni	na Facto	or+Cable	loss-Pr	reamp Fa	ctor



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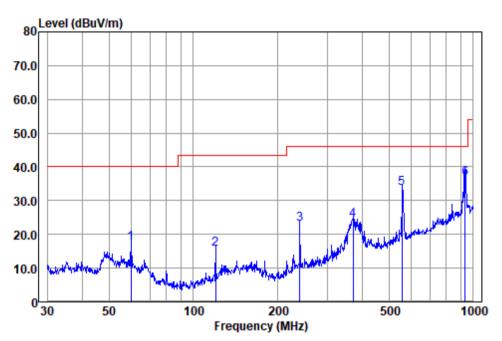
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Test Mode: 02; Polarity: Vertical



Antenna Polarity : VERTICAL EUT/Project :1247ME Test mode :02

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	59.859	36.70	13.02	1.20	33.60	17.32	40.00	-22.68	QP
2	119.856	36.13	11.10	2.06	33.56	15.73	43.50	-27.77	QP
3	239.987	41.95	11.00	3.15	33.13	22.97	46.00	-23.03	QP
4	372.005	37.70	15.00	4.42	32.95	24.17	46.00	-21.83	QP
5	556.774	42.06	19.02	5.61	33.00	33.69	46.00	-12.31	QP
6	933.389	37.59	23.70	7.26	32.03	36.52	46.00	-9.48	QP
Note:E	mission L	evel=Re	ad Level	+Anteni	na Facto	or+Cable	loss-Pr	reamp Fa	ctor



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7.8 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

Limit:

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

7.8.1 E.U.T. Operation

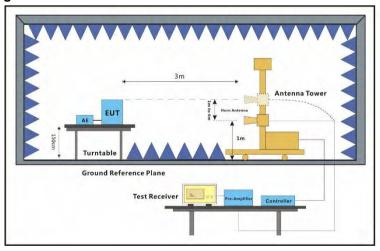
Operating Environment:

Temperature: 26.0 °C Humidity: 60.3 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Tion Took mede becompact								
Pre-scan / Final test	Mode Code	Description						
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.						

7.8.3 Test Setup Diagram





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7.8.4 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.



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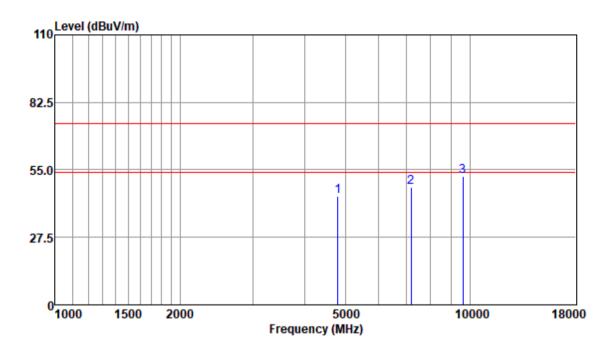
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

Грод					Emission			Domanie
Freq	rever	Factor	LOSS	Factor	Level	Line	LIMIT	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	42.89	33.57	4.53	36.79	44.20	74.00	-29.80	Peak
7206.00	40.63	36.24	6.66	35.53	48.00	74.00	-26.00	Peak
9608.00	39.82	37.75	8.56	33.58	52.55	74.00	-21.45	Peak

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



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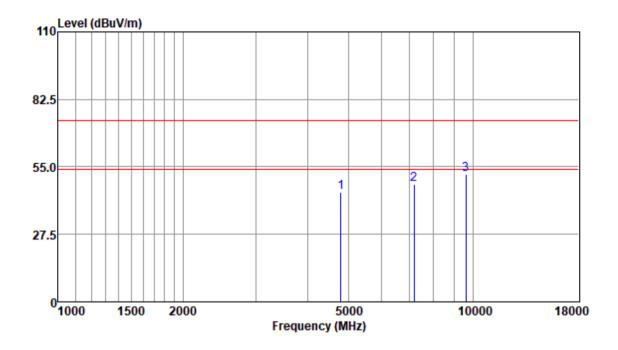
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

Enog					Emission Level			Romank
rreq	rever	rac tor	LUSS	Factor	rever	LINE	LIMIT	Kelliark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.15	33.57	4.53	36.79	44.46	74.00	-29.54	Peak
7206.00	40.58	36.24	6.66	35.53	47.95	74.00	-26.05	Peak
9608.00	39.41	37.75	8.56	33.58	52.14	74.00	-21.86	Peak

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



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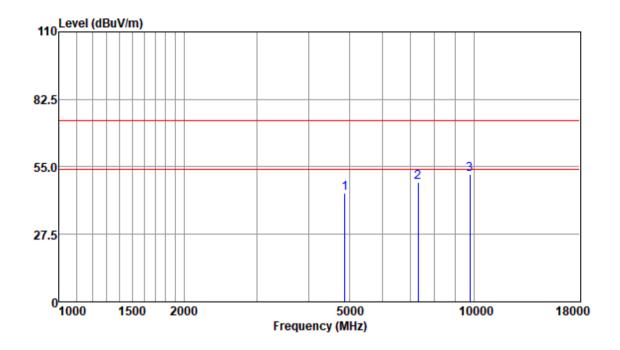
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Test Mode: 02; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	revel	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.68	33.66	4.73	36.81	44.26	74.00	-29.74	Peak
7320.00	41.08	36.33	6.59	35.42	48.58	74.00	-25.42	Peak
9760.00	39.41	37.54	8.69	33.50	52.14	74.00	-21.86	Peak

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



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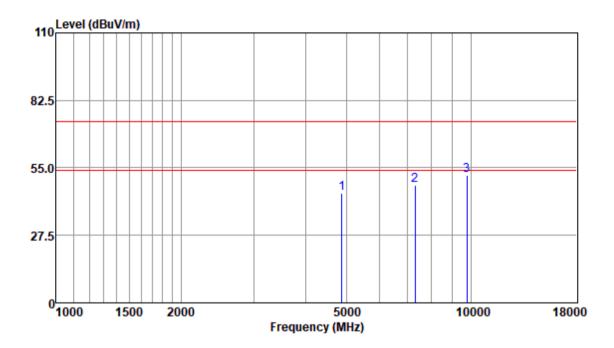
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Antenna Polarity : VERTICAL

_					Emission			_
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.91	33.66	4.73	36.81	44.49	74.00	-29.51	Peak
7320.00	40.56	36.33	6.59	35.42	48.06	74.00	-25.94	Peak
9760.00	39.31	37.54	8.69	33.50	52.04	74.00	-21.96	Peak

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



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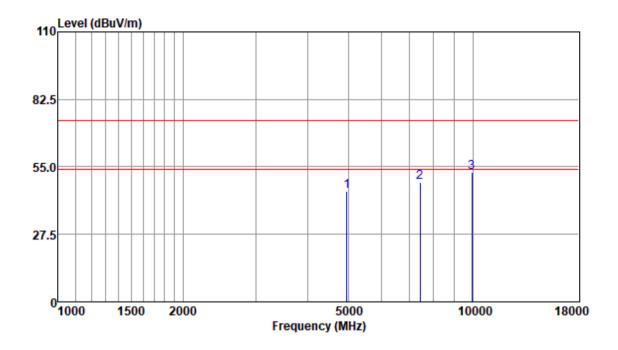
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Antenna Polarity : HORIZONTAL

F					Emission			D
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.44	33.65	4.92	36.83	45.18	74.00	-28.82	Peak
7440.00	40.94	36.31	6.61	35.34	48.52	74.00	-25.48	Peak
9920.00	39.87	37.62	8.87	33.41	52.95	74.00	-21.05	Peak

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



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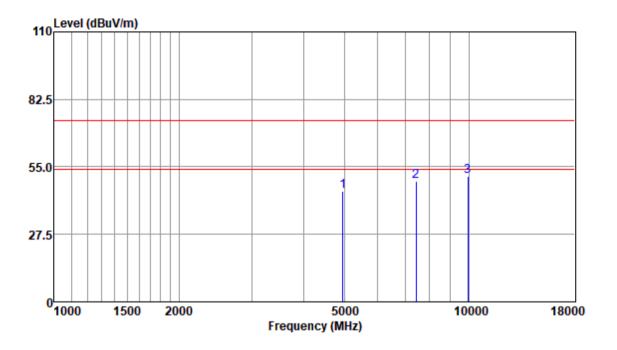
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Test Mode: 02; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.19	33.65	4.92	36.83	44.93	74.00	-29.07	Peak
7440.00	41.54	36.31	6.61	35.34	49.12	74.00	-24.88	Peak
9920.00	38.19	37.62	8.87	33.41	51.27	74.00	-22.73	Peak

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



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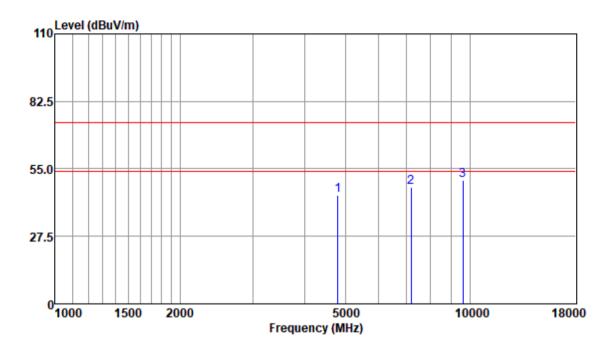
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Leve1	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	42.93	33.57	4.53	36.79	44.24	74.00	-29.76	Peak
7206.00	39.96	36.24	6.66	35.53	47.33	74.00	-26.67	Peak
9608.00	37.79	37.75	8.56	33.58	50.52	74.00	-23.48	Peak

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



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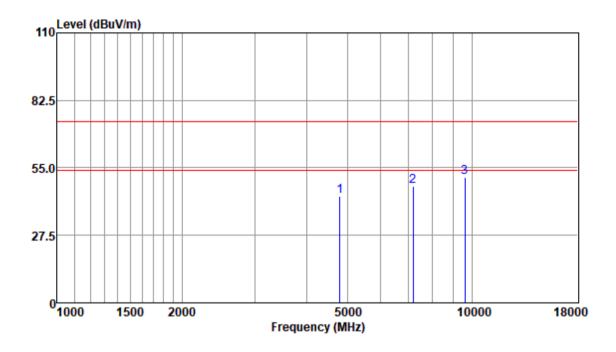
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Antenna Polarity : VERTICAL

Enoa					Emission			Domank
Freq	rever	Fac tor	LUSS	ractor.	Level	Line	LIMIT	Kelliar K
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	41.94	33.57	4.53	36.79	43.25	74.00	-30.75	Peak
7206.00	40.14	36.24	6.66	35.53	47.51	74.00	-26.49	Peak
9608.00	38.46	37.75	8.56	33.58	51.19	74.00	-22.81	Peak

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



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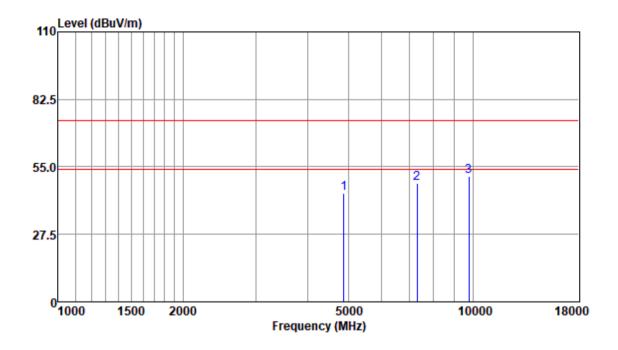
中国・上海・松江区金都西路588号 邮编: 201612 t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Antenna Polarity : HORIZONTAL

					Emission			DI-
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.80	33.66	4.73	36.81	44.38	74.00	-29.62	Peak
7320.00	40.69	36.33	6.59	35.42	48.19	74.00	-25.81	Peak
9760.00	38.54	37.54	8.69	33.50	51.27	74.00	-22.73	Peak

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



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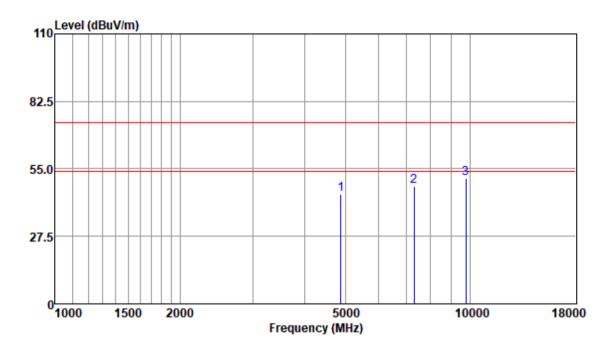
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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: middle



Antenna Polarity : VERTICAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	43.03	33.66	4.73	36.81	44.61	74.00	-29.39	Peak
7320.00	40.32	36.33	6.59	35.42	47.82	74.00	-26.18	Peak
9760.00	38.46	37.54	8.69	33.50	51.19	74.00	-22.81	Peak

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



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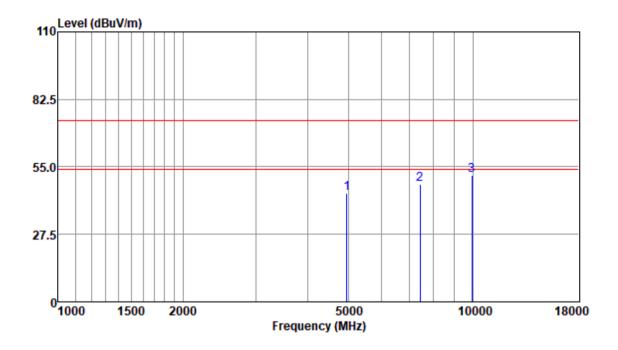
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Test Mode: 03; Polarity: Horizontal; Modulation: GFSK; Channel: High



Antenna Polarity : HORIZONTAL

Eneg					Emission Level			Romank
1164	rever	ractor	LUSS	I ac coi		LINE		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.53	33.65	4.92	36.83	44.27	74.00	-29.73	Peak
7440.00	40.51	36.31	6.61	35.34	48.09	74.00	-25.91	Peak
9920.00	38.47	37.62	8.87	33.41	51.55	74.00	-22.45	Peak

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



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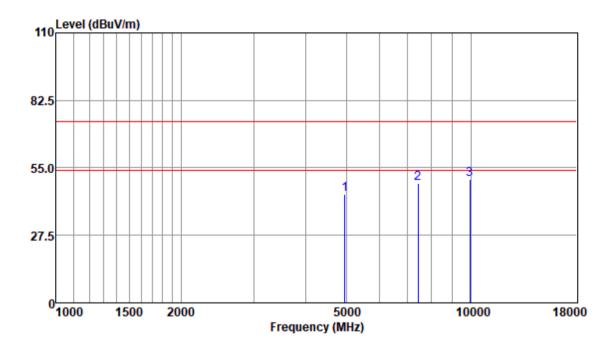
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Test Mode: 03; Polarity: Vertical; Modulation: GFSK; Channel: High



Antenna Polarity : VERTICAL

5					Emission			D I -
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.54	33.65	4.92	36.83	44.28	74.00	-29.72	Peak
7440.00	41.14	36.31	6.61	35.34	48.72	74.00	-25.28	Peak
9920.00	37.44	37.62	8.87	33.41	50.52	74.00	-23.48	Peak

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



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SHCR2306001247ME

9 **EUT Constructional Details (EUT Photos)**

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2306001247ME

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	0.660	2401.684	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.684	2440.344	0.5	PASS
		2480	0.660	2479.688	2480.348	0.5	PASS
		2402	1.096	2401.448	2402.544	0.5	PASS
BLE_2M	Ant1	2440	1.128	2439.440	2440.568	0.5	PASS
		2480	1.144	2479.436	2480.580	0.5	PASS



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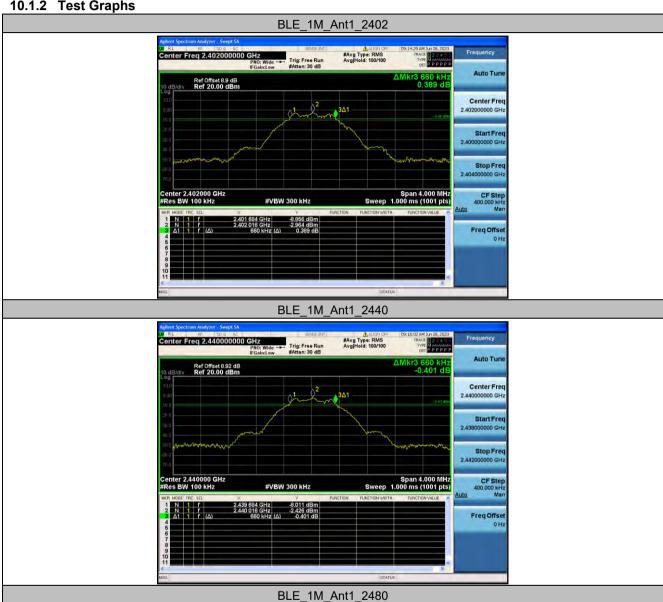
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10.1.2 Test Graphs





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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	1.0097	2401.5202	2402.5299		
BLE_1M	Ant1	2440	1.0065	2439.5230	2440.5295		
		2480	1.0109	2479.5156	2480.5265		
		2402	1.9949	2401.0407	2403.0356		
BLE_2M	Ant1	2440	2.0043	2439.0382	2441.0425		
		2480	1.9822	2479.0378	2481.0200		



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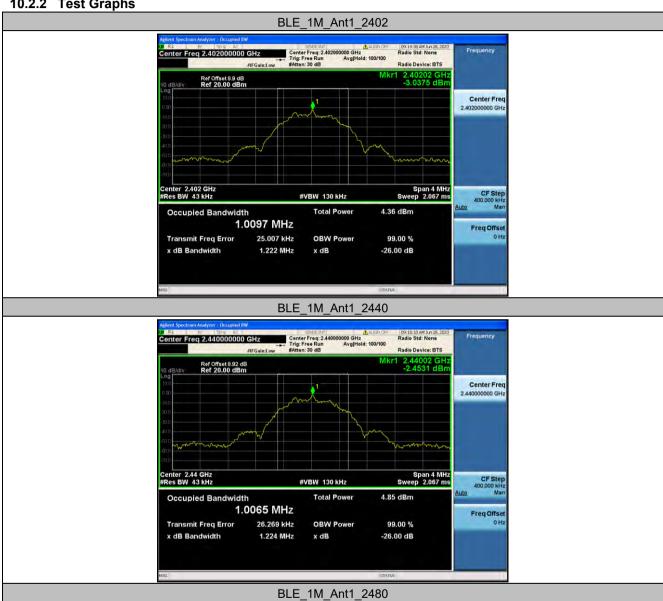
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10.2.2 Test Graphs





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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
BLE_1M	Ant1	2402	-2.69	≤30	PASS
		2440	-2.17	≤30	PASS
		2480	-2.67	≤30	PASS
BLE_2M	Ant1	2402	-2.86	≤30	PASS
		2440	-2.13	≤30	PASS
		2480	-2.57	≤30	PASS



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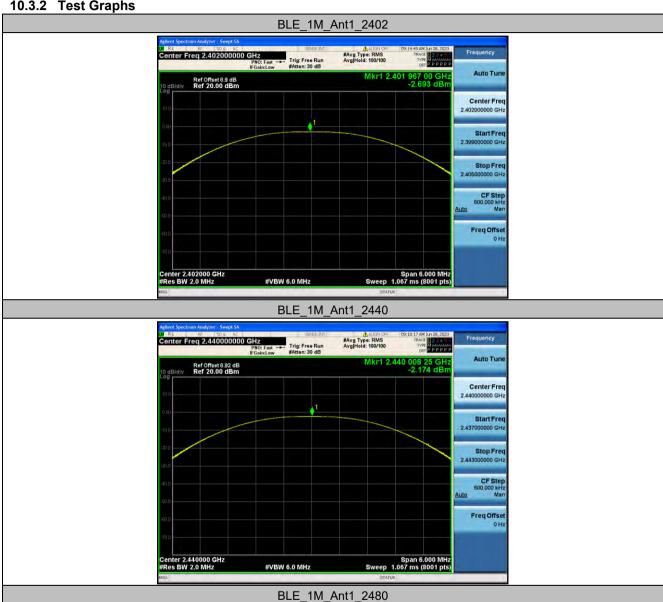
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10.3.2 Test Graphs





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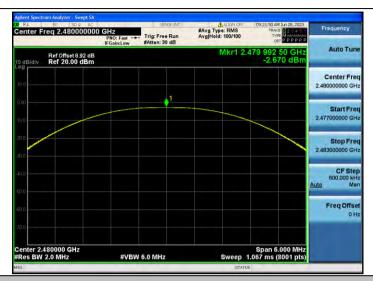
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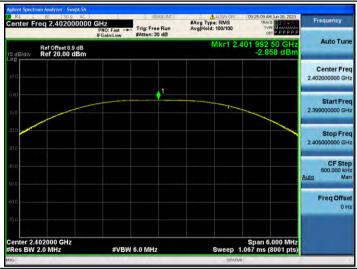


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BLE 2M Ant1 2402



BLE_2M_Ant1_2440



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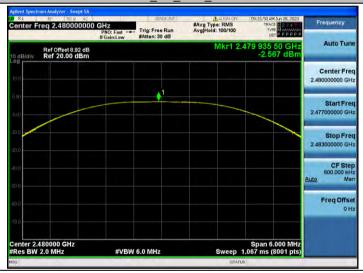


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10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.97	≤8.00	PASS
		2440	-13.43 ≤8.00		PASS
		2480	-13.8	≤8.00	PASS
BLE_2M	Ant1	2402	-14.54	≤8.00	PASS
		2440	-13.96	≤8.00	PASS
		2480	-14.05	≤8.00	PASS



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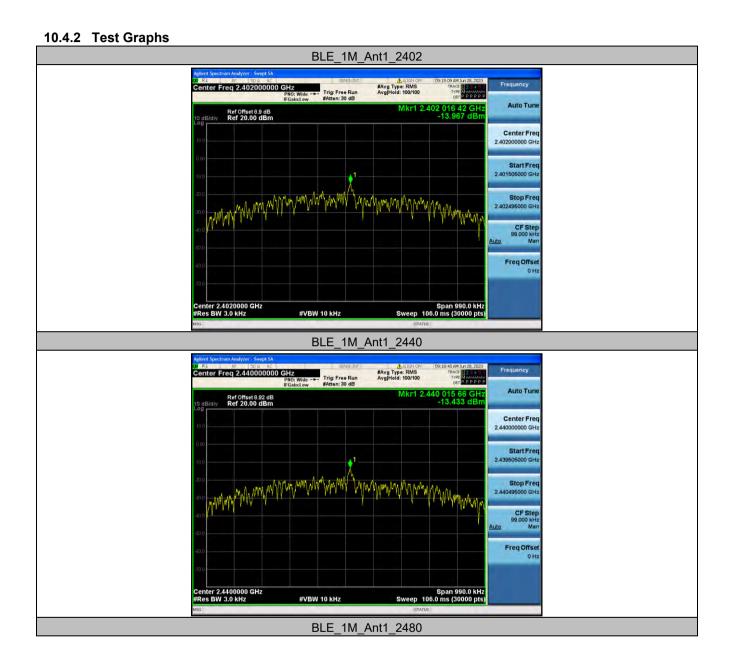
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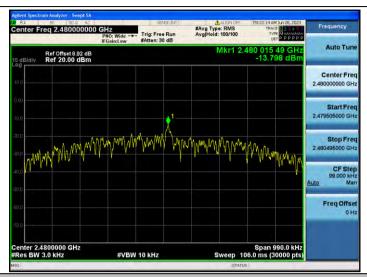
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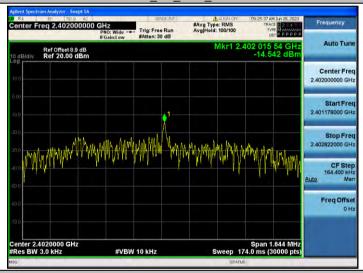


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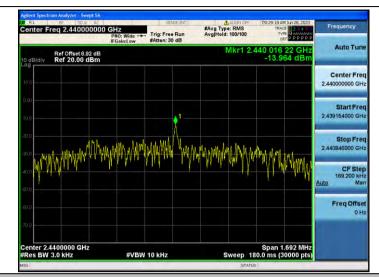
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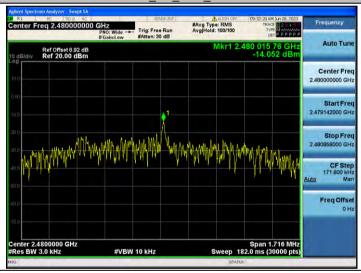


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10.5 Appendix E: Band edge measurements

10.5.1 Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.91	-49.93	≤-22.91	PASS
		High	2480	-2.81	-49.68	≤-22.81	PASS
BLE_2M	Ant1	Low	2402	-2.87	-47.77	≤-22.87	PASS
		High	2480	-2.46	-49.05	≤-22.46	PASS



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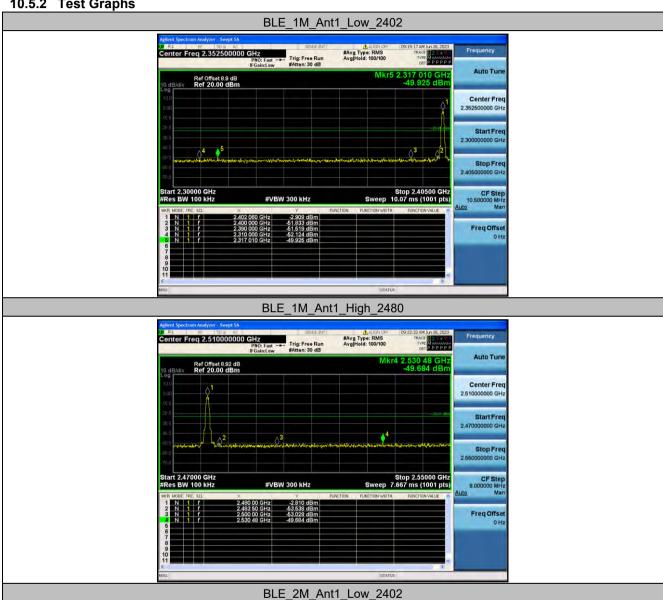
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10.5.2 Test Graphs





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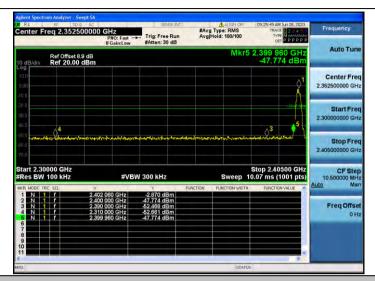
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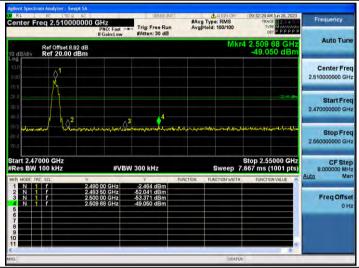


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10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.00	-4.00		PASS
			30~1000	-4.00	-61.26	≤-24	PASS
			1000~26500	-4.00	-42.81	≤-24	PASS
		2440	Reference	-2.60	-2.60	-	PASS
			30~1000	-2.60	-61.1	≤-22.6	PASS
			1000~26500	-2.60	-43.85	≤-22.6	PASS
		2480	Reference	-4.17	-4.17		PASS
			30~1000	-4.17	-61.97	≤-24.17	PASS
			1000~26500	-4.17	-41.98	≤-24.17	PASS
BLE_2M	Ant1	2402	Reference	-3.06	-3.06		PASS
			30~1000	-3.06	-38.87	≤-23.06	PASS
			1000~26500	-3.06	-43.39	≤-23.06	PASS
		2440	Reference	-5.55	-5.55		PASS
			30~1000	-5.55	-61.51	≤-25.55	PASS
			1000~26500	-5.55	-43.5	≤-25.55	PASS
		2480	Reference	-4.07	-4.07		PASS
			30~1000	-4.07	-61.39	≤-24.07	PASS
			1000~26500	-4.07	-42.9	≤-24.07	PASS



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10.6.2 Test Graphs





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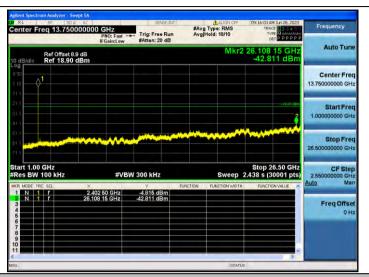
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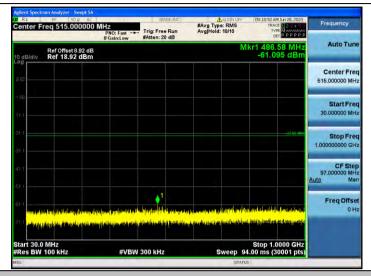
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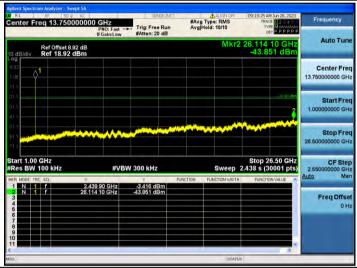


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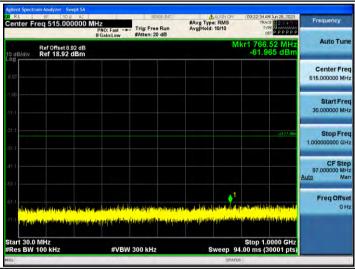


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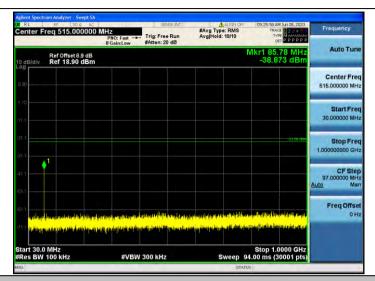
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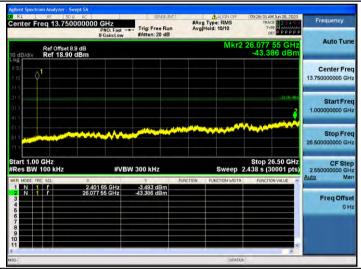


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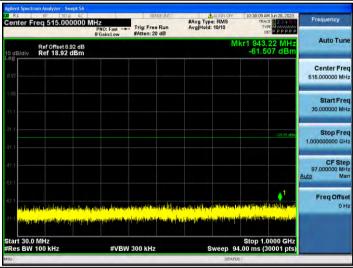


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BLE 2M Ant1 2440 30~1000



BLE_2M_Ant1_2440_1000~26500



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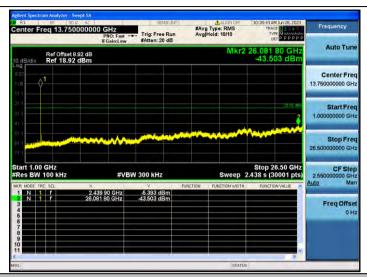
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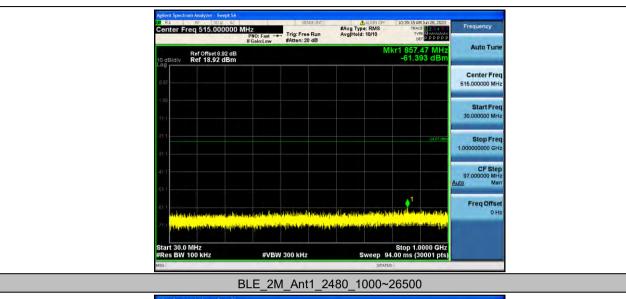
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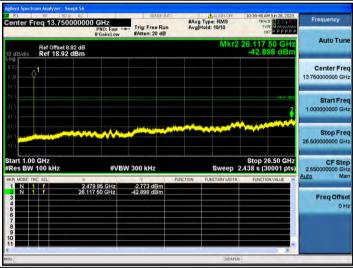
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