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# TEST REPORT

Test Result:	Pass*
Date of Issue:	2023-06-14
Date of Test:	2023-06-01 to 2023-06-05
Date of Receipt:	2023-05-19
	RSS-Gen Issue 5 Amendment 2 (February 2021)
	RSS-247 Issue 2, February 2017
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Trade Mark:	FOREO
Remark:	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Model No.:	BEAR™ 2, BEAR™ 2 go, BEAR™ 2 eyes & lips, BEAR™ 2 body
EUT Name:	Microcurrent Toning Device
Equipment Under Test (EUT	·):
Address of Factory:	No.58 Linsheng Road,Tinglin Town, Jinshan District, Shanghai, China
Factory:	VIS (Shanghai) Technology Limited
Address of Manufacturer:	KARLAVÄGEN 41, 114 31 STOCKHOLM, SWEDEN
Manufacturer:	FOREO AB
Address of Applicant:	No.58 Linsheng Road,Tinglin Town, Jinshan District, Shanghai, China
Applicant:	VIS (Shanghai) Technology Limited
IC:	25565-BEAR2
FCC ID:	2AT72-BEAR2
Application No.:	SHCR2305001033HS

\* In the configuration tested, the EUT complied with the standards specified above.

parlan shan

Parlam Zhan Laboratory Manager



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Revision Record					
Version	Description	Date	Remark		
00	Original	2023-06-14	/		

Authorized for issue by:		
	Bil WN	
	Bill Wu/Project Engineer	_
	Parlam zhan	
	Parlam Zhan / Reviewer	—



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## 2 Test Summary

Radio Spectrum Technical Requirement				
ltem	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 Matter Part					
ltem	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	

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model BEAR<sup>™</sup> 2, BEAR<sup>™</sup> 2 eyes & lips, BEAR<sup>™</sup> 2 body was tested.

The differences include appearance and firmware (Specifically, it refers to the different gears of the product. BEAR<sup>TM</sup> 2 and BEAR<sup>TM</sup> 2 body have 5 gears, BEAR<sup>TM</sup> 2 go and BEAR<sup>TM</sup> 2 eyes & lips have 3 gears, and BEAR<sup>TM</sup> 2's gears can cover other models. The motor vibration intensity varies with different gears, which will not affect the RF characteristics), and the BEAR<sup>TM</sup> 2 body's motor is different from the other three models.



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	DC 3.7V Rechargeable battery
Test Voltage:	DC 3.7V
	BEAR™ 2: BEAR2 F.REV.A
S/N:	BEAR™ 2 eyes & lips: BEAR2eyes F.REV.A
	BEAR™ 2 body: BEAR2body F.REV.A
	BEAR™ 2: F45KQT52gJDq23
Firmware Version:	BEAR™ 2 eyes & lips: 3t7nDCA6pJDgJ1
	BEAR™ 2 body: E38Bkd67cD4aPz
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Data rate:	1Mbps,2Mbps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Ceramic Antenna
Antenna Gain:	0.44dBi (Provided by manufacturer)

## 4.2 Description of Support Units

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

## 4.3 Power level setting using in test

Channel	BLE
0	Default
19	Default
39	Default



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No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
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
8	DE Dedicted newer	5.2dB (Below 1GHz)
0	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Sourieus omission 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%

## 4.4 Measurement Uncertainty

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:

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).
 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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## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test			····· , ···		
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	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
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	/	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	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
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	2022-07-25	2023-07-24
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	/	/
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	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
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 ceramic antenna and no consideration of replacement. The best case gain of the antenna is 0.44 dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

## 7.1 Conducted Peak Output Power

Test Requirement47 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 Enviror	nment:					
Temperature:	24.6 °C	Humidity:	63.1 % RH	Atmospheric Pressure:	1010	mbar

## 7.1.2 Test Mode Description

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



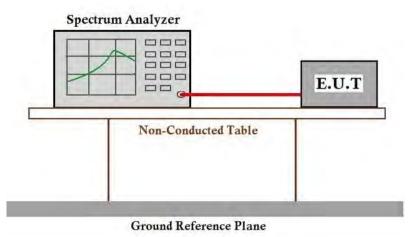
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## 7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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:

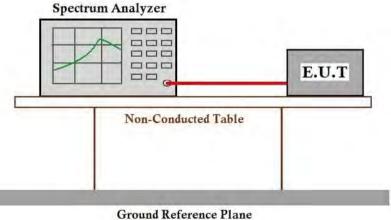
Temperature: 24.6 °C Humidity: 63.1 % RH A

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 BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.

#### 7.2.3 Test Setup Diagram



Ground Reference I fai

## 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

Limit:

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

## 7.3.1 E.U.T. Operation

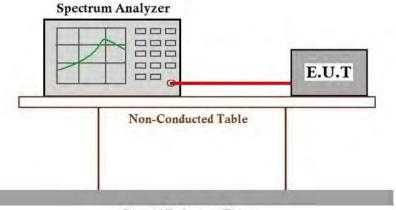
Operating Environment:

Temperature:	24.6 °C	Humidity:	63.2 % RH	Atmospheric Pressure:	1010	mbar

## 7.3.2 Test Mode Description

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

## 7.3.3 Test Setup Diagram



Ground Reference Plane

## 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.4 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).

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

Humidity: 63.3 % 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 BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.



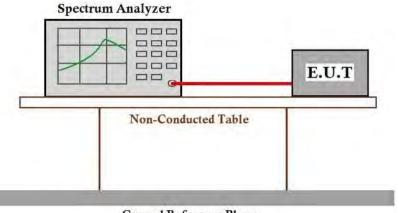
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## 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data

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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

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

Humidity: 63.4 % 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 BEAR™ 2 in continuously transmitting mode with GFSK modulation.	
Final test	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.	



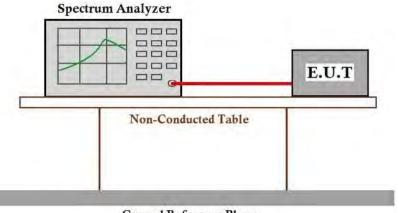
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#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 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.

## 7.6.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	24.7 °C	Humidity:	63.5 % RH	Atmospheric Pressure:	1010	mbar

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	02	TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.

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## 7.6.2 Test Mode Description



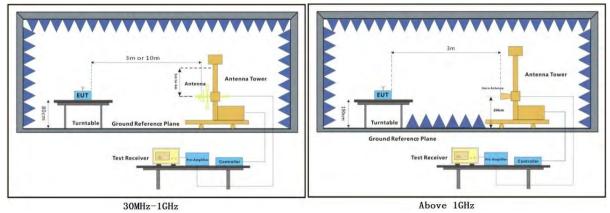
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#### 7.6.3 Test Setup Diagram



#### 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.

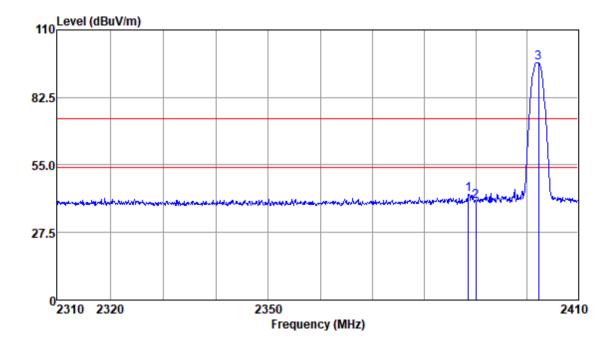


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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.55	46.30	28.80	3.13	35.18	43.05	74.00	-30.95	Peak
2390.00	43.27	28.80	3.13	35.18	40.02	74.00	-33.98	Peak
2402.25	99.90	28.85	3.13	35.19	96.69	74.00	22.69	Peak

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



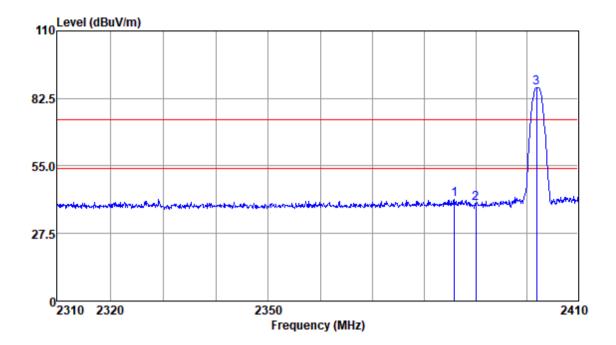
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#### Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.81	44.61	28.80	3.13	35.18	41.36	74.00	-32.64	Peak
2390.00	42.85	28.80	3.13	35.18	39.60	74.00	-34.40	Peak
2401.84	90.24	28.85	3.13	35.19	87.03	74.00	13.03	Peak

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

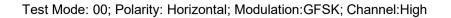


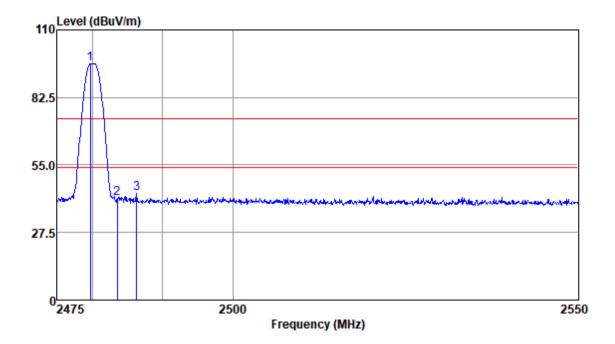
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#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.73	99.12	29.08	3.20	35.25	96.15	74.00	22.15	Peak
2483.50	44.29	29.09	3.20	35.26	41.32	74.00	-32.68	Peak
2486.26	46.37	29.09	3.20	35.26	43.40	74.00	-30.60	Peak

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

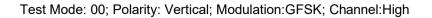


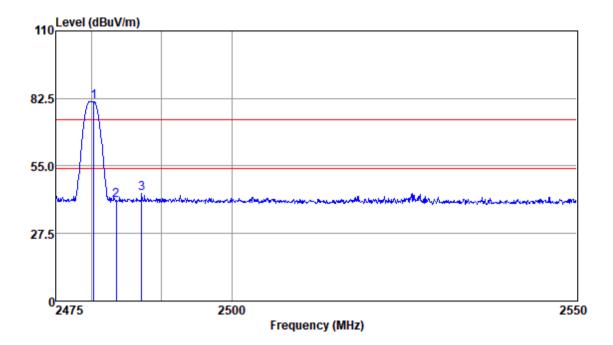
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## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.33	84.30	29.08	3.20	35.25	81.33	74.00	7.33	Peak
2483.50	43.86	29.09	3.20	35.26	40.89	74.00	-33.11	Peak
2487.15	46.73	29.09	3.20	35.26	43.76	74.00	-30.24	Peak

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

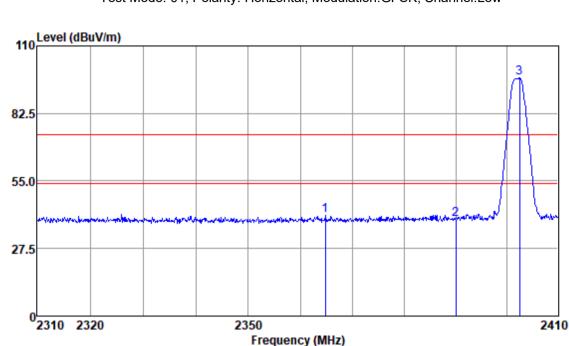


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low

## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2364.78	44.37	28.68	3.14	35.16	41.03	74.00	-32.97	Peak
2390.00	42.64	28.80	3.13	35.18	39.39	74.00	-34.61	Peak
2402.45	100.16	28.85	3.13	35.19	96.95	74.00	22.95	Peak

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



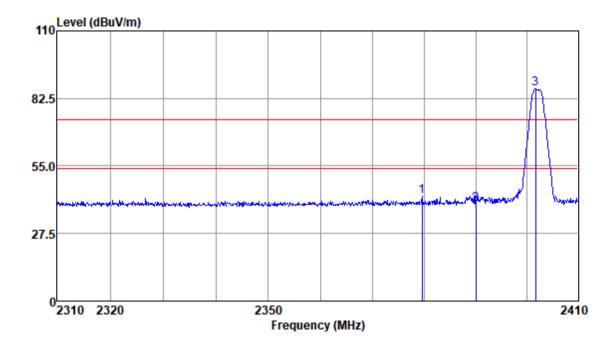
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#### Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2379.55	45.75	28.76	3.14	35.17	42.48	74.00	-31.52	Peak
2390.00	42.70	28.80	3.13	35.18	39.45	74.00	-34.55	Peak
2401.64	89.58	28.85	3.13	35.19	86.37	74.00	12.37	Peak

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

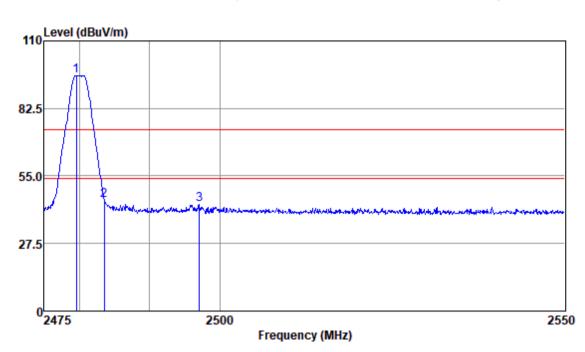


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.59	98.96	29.08	3.20	35.25	95.99	74.00	21.99	Peak
2483.50	48.23	29.09	3.20	35.26	45.26	74.00	-28.74	Peak
2497.12	46.37	29.12	3.23	35.27	43.45	74.00	-30.55	Peak

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

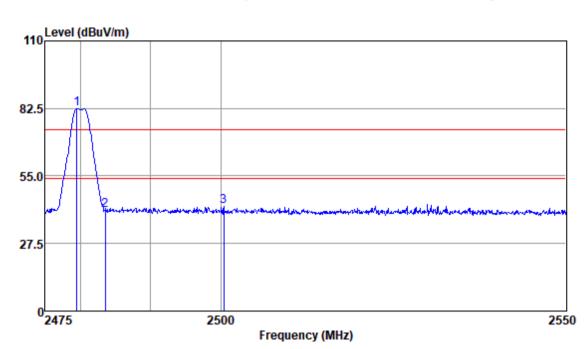


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHZ	dBuv	dB/m	qR	dB	dBuv/m	dBuv/m	dB	
2479.51	85.36	29.08	3.20	35.25	82.39	74.00	8.39	Peak
2483.50	43.78	29.09	3.20	35.26	40.81	74.00	-33.19	Peak
2500.47	45.34	29.12	3.23	35.27	42.42	74.00	-31.58	Peak

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



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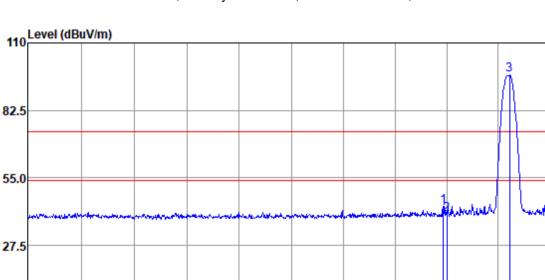


2310

2320

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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

#### Frequency (MHz)

2350

#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.36	46.71	28.80	3.13	35.18	43.46	74.00	-30.54	Peak
2390.00	43.44	28.80	3.13	35.18	40.19	74.00	-33.81	Peak
2402.25	100.06	28.85	3.13	35.19	96.85	74.00	22.85	Peak

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



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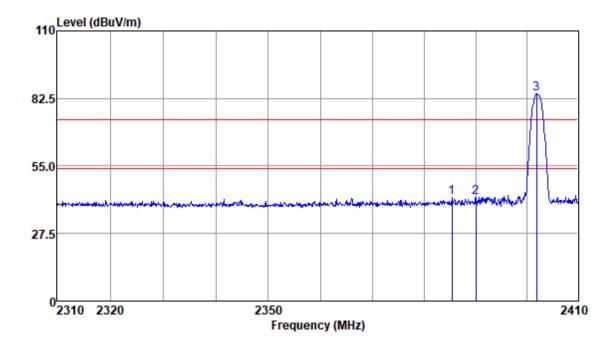
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2410



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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	
2385.41	45.34	28.80	3.14	35.18	42.10	74.00	-31.90	Peak
2390.00	45.53	28.80	3.13	35.18	42.28	74.00	-31.72	Peak
2401.84	87.56	28.85	3.13	35.19	84.35	74.00	10.35	Peak

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

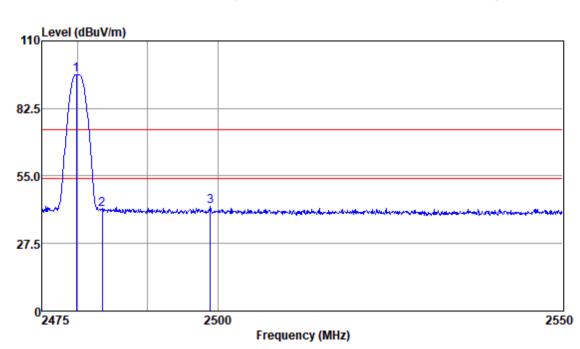


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High

#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.81	99.07	29.08	3.20	35.25	96.10	74.00	22.10	Peak
2483.50	44.47	29.09	3.20	35.26	41.50	74.00	-32.50	Peak
2498.98	45.54	29.12	3.23	35.27	42.62	74.00	-31.38	Peak

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

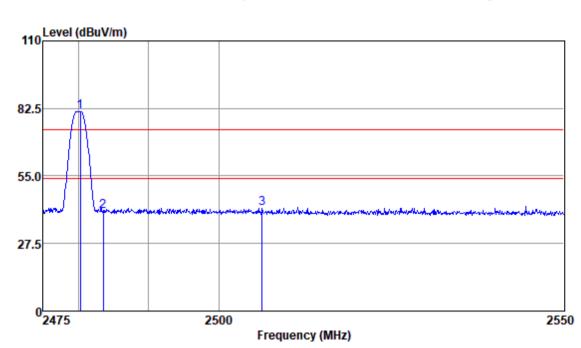


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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.25	84.31	29.08	3.20	35.25	81.34	74.00	7.34	Peak
2483.50	43.59	29.09	3.20	35.26	40.62	74.00	-33.38	Peak
2506.23	44.68	29.13	3.27	35.28	41.80	74.00	-32.20	Peak

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

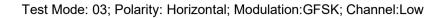


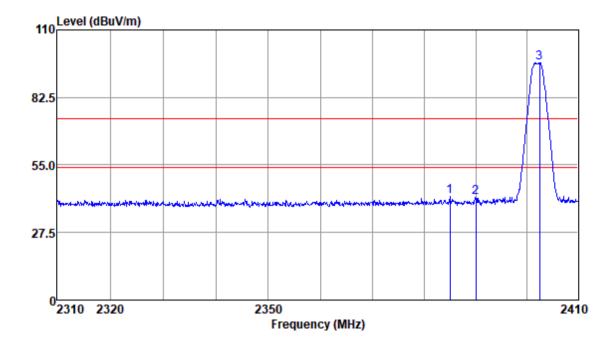
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## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.01	45.39	28.80	3.14	35.18	42.15	74.00	-31.85	Peak
2390.00	44.98	28.80	3.13	35.18	41.73	74.00	-32.27	Peak
2402.45	99.82	28.85	3.13	35.19	96.61	74.00	22.61	Peak

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



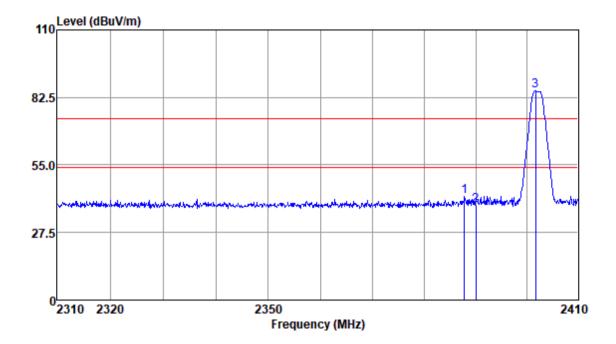
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#### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.84	45.64	28.80	3.13	35.18	42.39	74.00	-31.61	Peak
2390.00	41.91	28.80	3.13	35.18	38.66	74.00	-35.34	Peak
2401.64	88.56	28.85	3.13	35.19	85.35	74.00	11.35	Peak

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

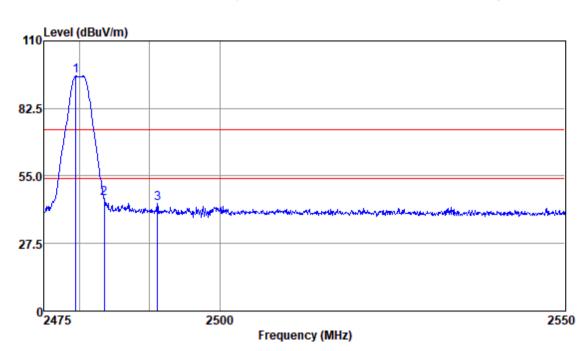


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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High

#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHZ	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.51	98.65	29.08	3.20	35.25	95.68	74.00	21.68	Peak
2483.50	48.72	29.09	3.20	35.26	45.75	74.00	-28.25	Peak
2491.09	46.93	29.10	3.23	35.26	44.00	74.00	-30.00	Peak

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

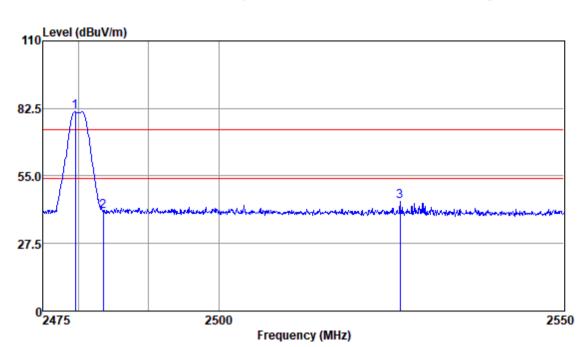


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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.59	84.15	29.08	3.20	35.25	81.18	74.00	7.18	Peak
2483.50	43.68	29.09	3.20	35.26	40.71	74.00	-33.29	Peak
2526.13	47.68	29.13	3.30	35.31	44.80	74.00	-29.20	Peak

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



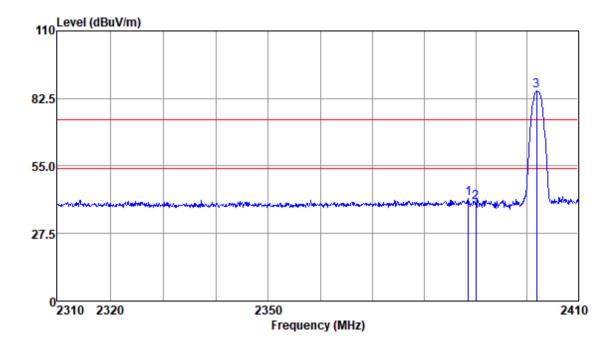
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#### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.55	44.93	28.80	3.13	35.18	41.68	74.00	-32.32	Peak
2390.00	43.26	28.80	3.13	35.18	40.01	74.00	-33.99	Peak
2401.84	88.65	28.85	3.13	35.19	85.44	74.00	11.44	Peak

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

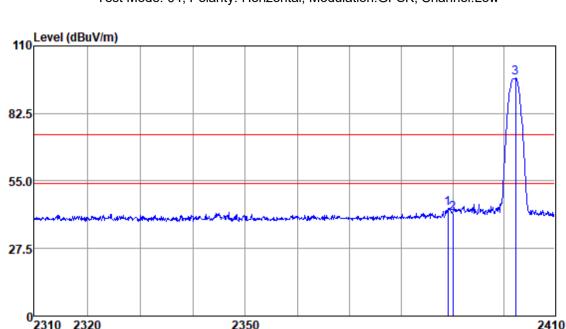


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#### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low

#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.05	47.21	28.80	3.13	35.18	43.96	74.00	-30.04	Peak
2390.00	45.04	28.80	3.13	35.18	41.79	74.00	-32.21	Peak
2402.25	100.09	28.85	3.13	35.19	96.88	74.00	22.88	Peak

Frequency (MHz)

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

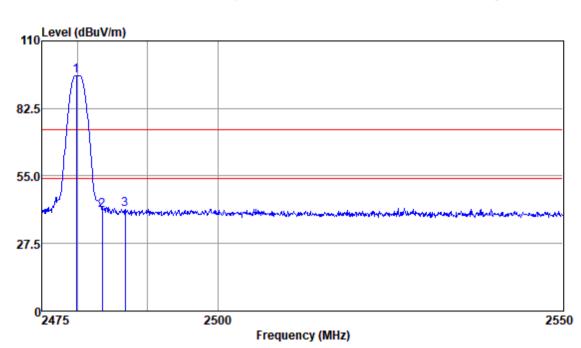


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.81	98.93	29.08	3.20	35.25	95.96	74.00	21.96	Peak
2483.50	43.91	29.09	3.20	35.26	40.94	74.00	-33.06	Peak
2486.78	44.51	29.09	3.20	35.26	41.54	74.00	-32.46	Peak

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

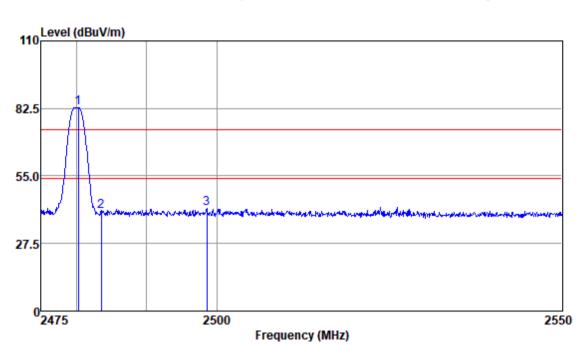


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2480.25	85.80	29.08	3.20	35.25	82.83	74.00	8.83	Peak
2483.50	43.59	29.09	3.20	35.26	40.62	74.00	-33.38	Peak
2498.61	44.69	29.12	3.23	35.27	41.77	74.00	-32.23	Peak

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

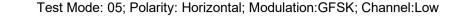


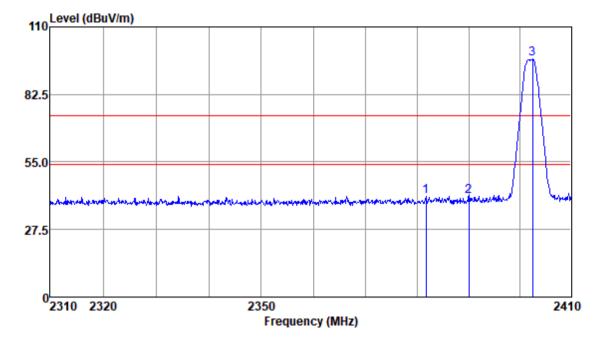
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## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
2381.67 2390.00	44.11 44.08	28.76 28.80	3.14 3.13	35.17 35.18	dBuv/m 40.84 40.83 96.87	74.00 74.00	-33.16 -33.17	Peak

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



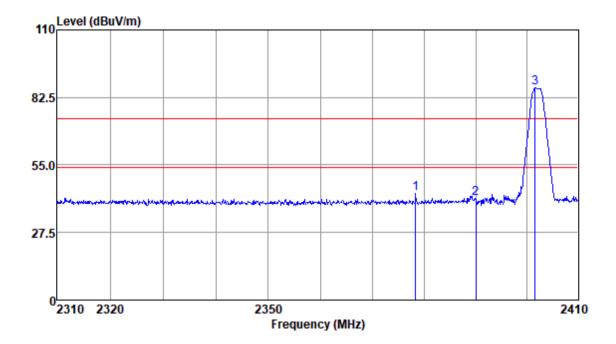
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#### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2378.34	46.66	28.76	3.14	35.17	43.39	74.00	-30.61	Peak
2390.00	44.77	28.80	3.13	35.18	41.52	74.00	-32.48	Peak
2401.54	89.76	28.85	3.13	35.19	86.55	74.00	12.55	Peak

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

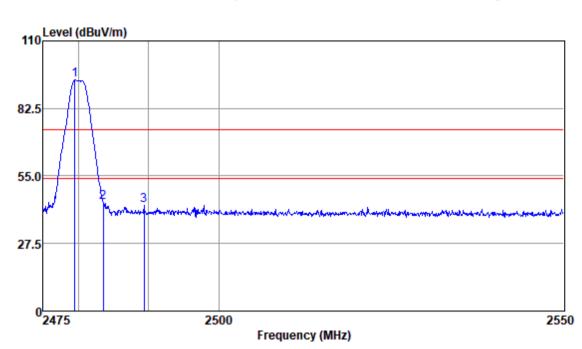


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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High

## Antenna Polarity :HORIZONTAL

Freq			Emission Level		Remark
			dBuv/m 94.06		Peak
			44.41 42.87		

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

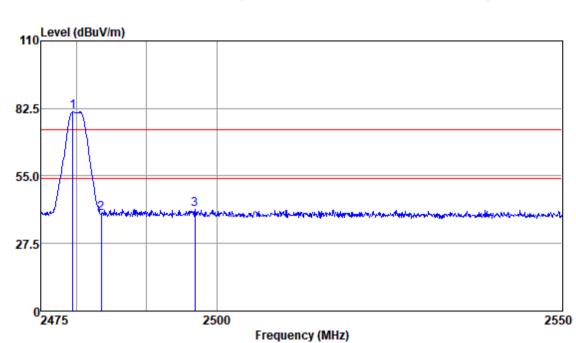


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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High

## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
 MH-7	dBury				dBuv/m	 dBuy/m		
					81.19			Peak
					39.82			
2496.89	44.50	29.12	3.23	35.27	41.58	74.00	-32.42	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 Enviro	nment:					
Temperature:	24.7 °C	Humidity:	64.0 % RH	Atmospheric Pressure:	1010	mbar

## 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	02	TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.
Pre-scan	05	TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.



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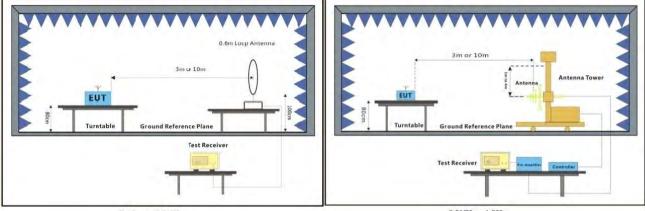
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#### 7.7.3 Test Setup Diagram



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.

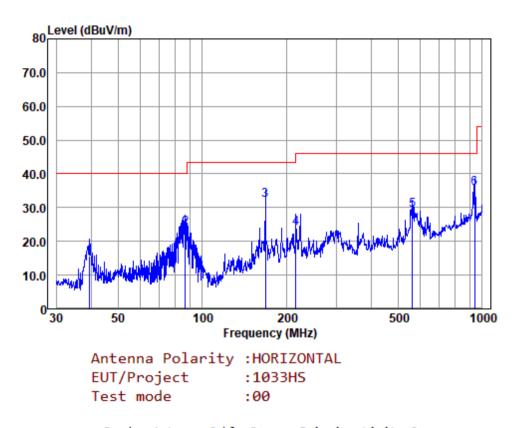
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 00; Polarity: Horizontal

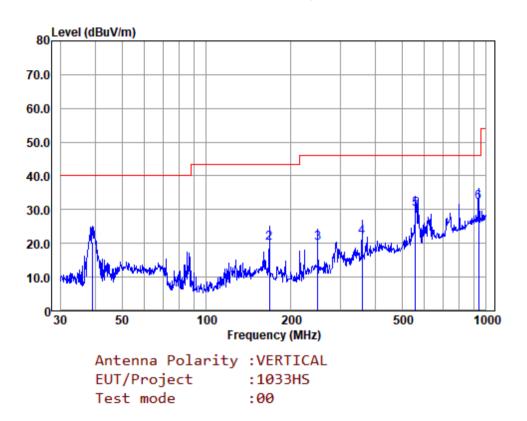
		Read	Antenna	Cable	Preamp	Emissior	ı Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.576	35.08	13.40	0.95	33.70	15.73	40.00	-24.27	QP
2	86.807	47.82	7.72	1.86	33.57	23.83	40.00	-16.17	QP
3	167.824	50.01	12.90	2.60	33.42	32.09	43.50	-11.41	QP
4	216.024	44.19	9.86	3.22	33.22	24.05	46.00	-21.95	QP
5	562.662	37.55	19.12	5.63	33.00	29.30	46.00	-16.70	QP
6	938.833	36.66	23.70	7.27	32.02	35.61	46.00	-10.39	QP
Note:E	mission L	evel=Rea	ad Level	Anten	na Facto	or+Cable	loss-Pr	eamp Fac	tor



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Test Mode: 00; Polarity: Vertical

		Read	Antenna	Cable	Preamp	Emissior	ı Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.162	39.59	13.40	0.95	33.70	20.24	40.00	-19.76	QP
2	167.824	38.01	12.90	2.60	33.42	20.09	43.50	-23.41	QP
3	249.425	38.41	11.64	3.20	33.10	20.15	46.00	-25.85	QP
4	360.448	35.53	14.70	4.53	32.97	21.79	46.00	-24.21	QP
5	558.730	38.30	19.06	5.62	33.00	29.98	46.00	-16.02	QP
6	938.833	33.29	23.70	7.27	32.02	32.24	46.00	-13.76	QP
Note:Er	mission L	evel=Re	ad Level	Anten	na Facto	or+Cable	loss-Pr	eamp Fac	tor

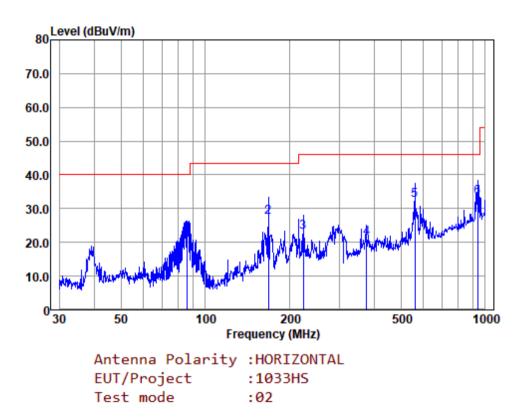


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Test Mode: 02; Polarity: Horizontal

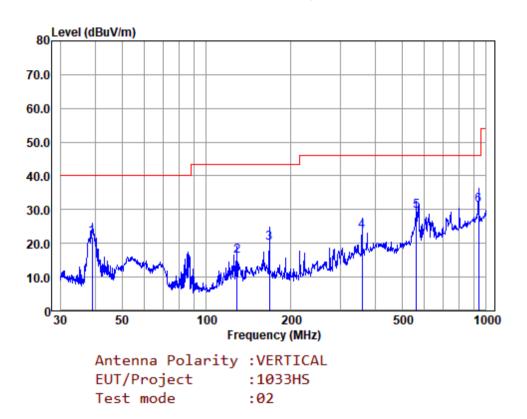
		Read	Antenna	Cable	Preamp	Emission	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	85.898	46.09	7.80	1.86	33.56	22.19	40.00	-17.81	QP
2	167.824	45.41	12.90	2.60	33.42	27.49	43.50	-16.01	QP
3	223.733	43.03	9.98	3.22	33.20	23.03	46.00	-22.97	QP
4	375.939	34.66	15.15	4.37	32.95	21.23	46.00	-24.77	QP
5	560.693	40.63	19.10	5.64	33.00	32.37	46.00	-13.63	QP
6	938.833	34.41	23.70	7.27	32.02	33.36	46.00	-12.64	QP
Note:Er	mission L	evel=Rea	ad Level	Anten	na Facto	or+Cable	loss-Pr	eamp Fac	ctor



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Test Mode: 02; Polarity: Vertical

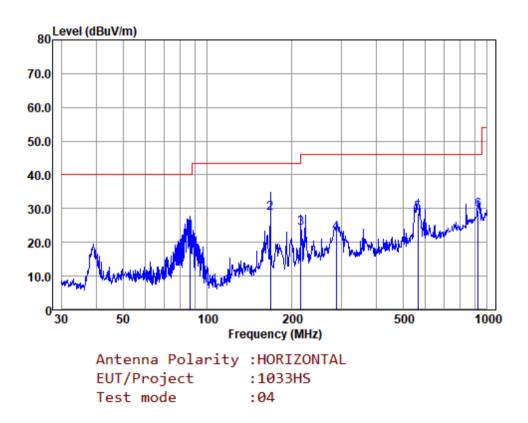
		Read	Antenna	Cable	Preamp	Emission	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.024	41.19	13.40	0.95	33.70	21.84	40.00	-18.16	QP
2	128.563	35.65	11.90	2.22	33.54	16.23	43.50	-27.27	QP
3	167.824	37.86	12.90	2.60	33.42	19.94	43.50	-23.56	QP
4	360.448	37.28	14.70	4.53	32.97	23.54	46.00	-22.46	QP
5	562.662	37.85	19.12	5.63	33.00	29.60	46.00	-16.40	QP
6	938.833	32.34	23.70	7.27	32.02	31.29	46.00	-14.71	QP
Note:E	mission L	evel=Rea	ad Level	Anten	na Facto	or+Cable	loss-Pr	eamp Fac	tor



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Test Mode: 04; Polarity: Horizontal

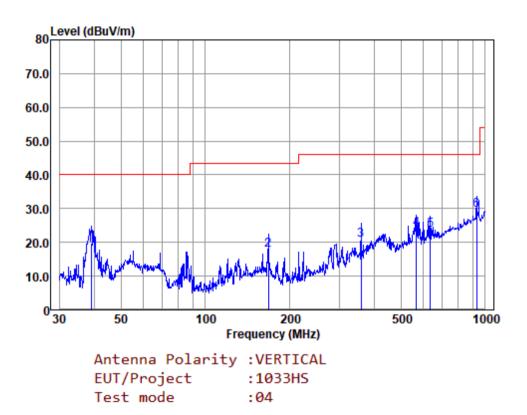
		Read	Antenna	Cable	Preamp	Emission	ı Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	86.807	46.65	7.72	1.86	33.57	22.66	40.00	-17.34	QP
2	167.824	46.67	12.90	2.60	33.42	28.75	43.50	-14.75	QP
3	216.024	44.27	9.86	3.22	33.22	24.13	46.00	-21.87	QP
4	287.990	39.14	13.04	3.50	33.02	22.66	46.00	-23.34	QP
5	564.639	37.02	19.14	5.62	33.00	28.78	46.00	-17.22	QP
6	925.756	30.66	23.77	7.22	32.05	29.60	46.00	-16.40	QP
Note:E	mission L	evel=Re	ad Level	+Anten	na Facto	or+Cable	loss-Pr	eamp Fac	tor



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Test Mode: 04; Polarity: Vertical

		Read	Antenna	Cable	Preamp	Emission	ı Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.162	39.21	13.40	0.95	33.70	19.86	40.00	-20.14	QP
2	167.824	35.49	12.90	2.60	33.42	17.57	43.50	-25.93	QP
3	360.448	34.39	14.70	4.53	32.97	20.65	46.00	-25.35	QP
4	566.622	32.28	19.16	5.60	33.00	24.04	46.00	-21.96	QP
5	636.134	30.09	20.68	5.80	32.92	23.65	46.00	-22.35	QP
6	932.272	30.62	23.70	7.26	32.03	29.55	46.00	-16.45	QP
Note:	Emission L	evel=Re	ad Level	Anten	na Facto	or+Cable	loss-Pr	eamp Fac	tor



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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:	24.7 °C	Humidity:	64.1 % RH	Atmospheric Pressure:	1010	mbar

## 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the BEAR™ 2 in continuously transmitting mode with GFSK modulation.
Final test	02	TX mode(1Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the BEAR™ 2 body in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(1Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)_Keep the BEAR™ 2 eyes & lips in continuously transmitting mode with GFSK modulation.

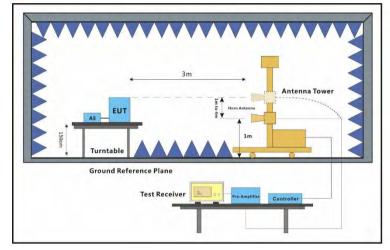


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## 7.8.3 Test Setup Diagram





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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.



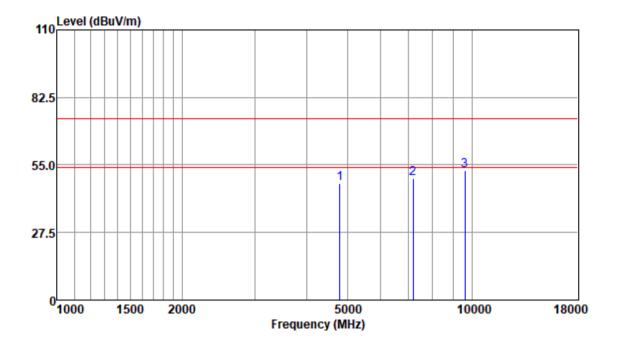
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	45.99	33.57	4.53	36.79	47.30	74.00	-26.70	Peak
7206.00	42.34	36.24	6.66	35.53	49.71	74.00	-24.29	Peak
9608.00	39.92	37.75	8.56	33.58	52.65	74.00	-21.35	Peak

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



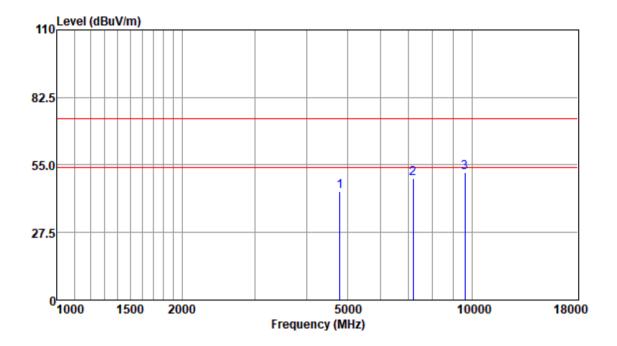
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## Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

[no.c					Emission			Domonia
Freq	rever	Factor	LOSS	Factor	Level	Line	LIMIC	кепагк
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.04	33.57	4.53	36.79	44.35	74.00	-29.65	Peak
7206.00	42.21	36.24	6.66	35.53	49.58	74.00	-24.42	Peak
9608.00	39.04	37.75	8.56	33.58	51.77	74.00	-22.23	Peak

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



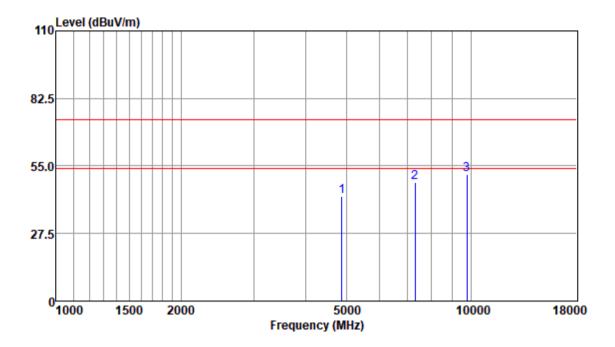
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	41.00	33.66	4.73	36.81	42.58	74.00	-31.42	Peak
7320.00	40.86	36.33	6.59	35.42	48.36	74.00	-25.64	Peak
9760.00	38.63	37.54	8.69	33.50	51.36	74.00	-22.64	Peak

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



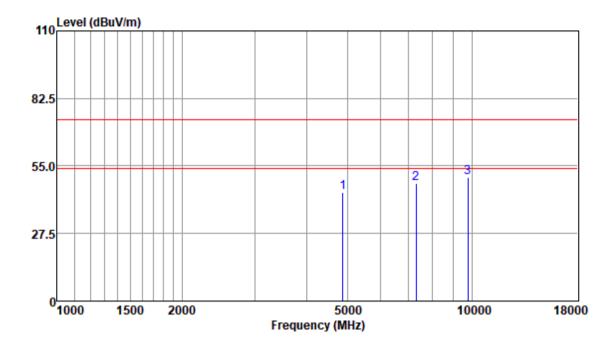
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#### Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.85	33.66	4.73	36.81	44.43	74.00	-29.57	Peak
7320.00	40.51	36.33	6.59	35.42	48.01	74.00	-25.99	Peak
9760.00	37.76	37.54	8.69	33.50	50.49	74.00	-23.51	Peak

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



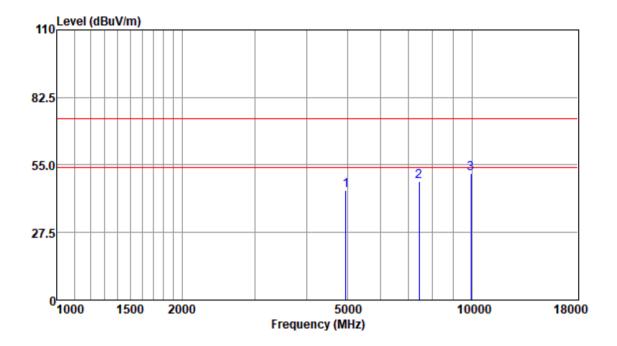
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#### Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.90	33.65	4.92	36.83	44.64	74.00	-29.36	Peak
7440.00	40.84	36.31	6.61	35.34	48.42	74.00	-25.58	Peak
9920.00	38.33	37.62	8.87	33.41	51.41	74.00	-22.59	Peak

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



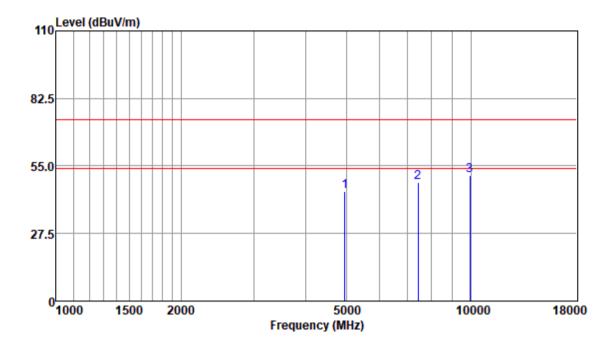
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## Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.99	33.65	4.92	36.83	44.73	74.00	-29.27	Peak
7440.00	40.79	36.31	6.61	35.34	48.37	74.00	-25.63	Peak
9920.00	37.96	37.62	8.87	33.41	51.04	74.00	-22.96	Peak

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

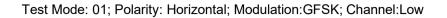


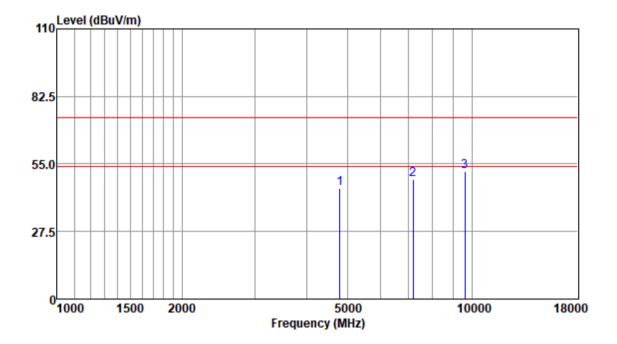
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## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.78	33.57	4.53	36.79	45.09	74.00	-28.91	Peak
7206.00	41.28	36.24	6.66	35.53	48.65	74.00	-25.35	Peak
9608.00	39.33	37.75	8.56	33.58	52.06	74.00	-21.94	Peak

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



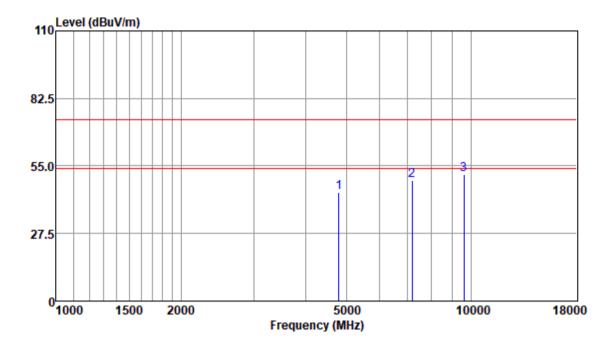
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## Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Enog					Emission Level			Romank
Freq	rever	Factor	LUSS	Factor	rever	LTHE	LTIIITC	NelliarK
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.05	33.57	4.53	36.79	44.36	74.00	-29.64	Peak
7206.00	41.87	36.24	6.66	35.53	49.24	74.00	-24.76	Peak
9608.00	38.74	37.75	8.56	33.58	51.47	74.00	-22.53	Peak

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



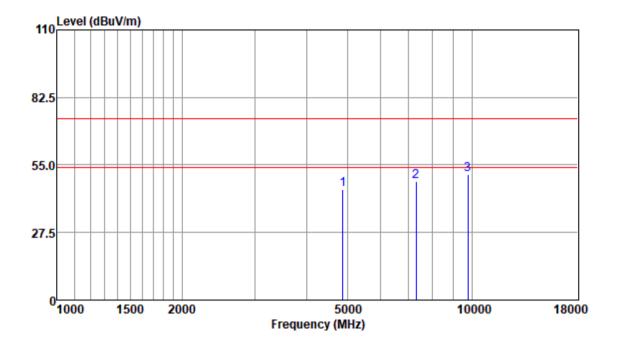
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#### Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	43.62	33.66	4.73	36.81	45.20	74.00	-28.80	Peak
7320.00	40.65	36.33	6.59	35.42	48.15	74.00	-25.85	Peak
9760.00	38.42	37.54	8.69	33.50	51.15	74.00	-22.85	Peak

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



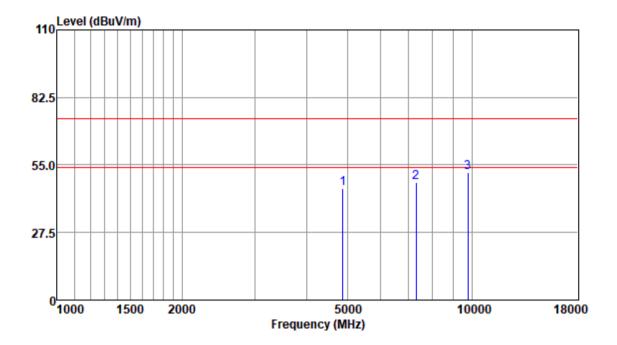
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#### Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	43.86	33.66	4.73	36.81	45.44	74.00	-28.56	Peak
7320.00	40.38	36.33	6.59	35.42	47.88	74.00	-26.12	Peak
9760.00	39.02	37.54	8.69	33.50	51.75	74.00	-22.25	Peak

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



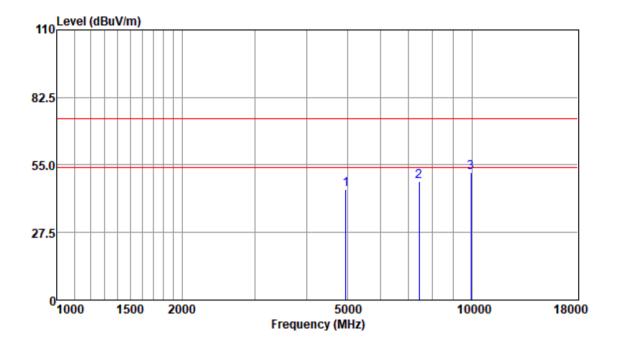
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## Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.24	33.65	4.92	36.83	44.98	74.00	-29.02	Peak
7440.00	40.66	36.31	6.61	35.34	48.24	74.00	-25.76	Peak
9920.00	39.00	37.62	8.87	33.41	52.08	74.00	-21.92	Peak

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



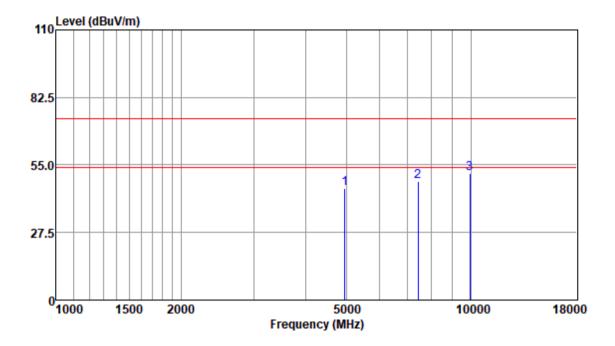
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## Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



## Antenna Polarity :VERTICAL

							Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
43.53	33.65	4.92	36.83	45.27	74.00	-28.73	Peak
40.60	36.31	6.61	35.34	48.18	74.00	-25.82	Peak
38.43	37.62	8.87	33.41	51.51	74.00	-22.49	Peak
	Level dBuv 43.53 40.60	Level Factor dBuv dB/m 43.53 33.65 40.60 36.31	Level Factor Loss dBuv dB/m dB 43.53 33.65 4.92 40.60 36.31 6.61	Level Factor Loss Factor dBuv dB/m dB dB 43.53 33.65 4.92 36.83 40.60 36.31 6.61 35.34	Level Factor Loss Factor Level dBuv dB/m dB dB dBuv/m 43.53 33.65 4.92 36.83 45.27 40.60 36.31 6.61 35.34 48.18	Level Factor Loss Factor Level Line dBuv dB/m dB dB dBuv/m dBuv/m 43.53 33.65 4.92 36.83 45.27 74.00 40.60 36.31 6.61 35.34 48.18 74.00	Read         Antenna         Cable         Preamp         Emission         Limit         Over           Level         Factor         Loss         Factor         Level         Line         Limit           dBuv         dB/m         dB         dB         dBuv/m         dBuv/m         dB           43.53         33.65         4.92         36.83         45.27         74.00         -28.73           40.60         36.31         6.61         35.34         48.18         74.00         -25.82           38.43         37.62         8.87         33.41         51.51         74.00         -22.49

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



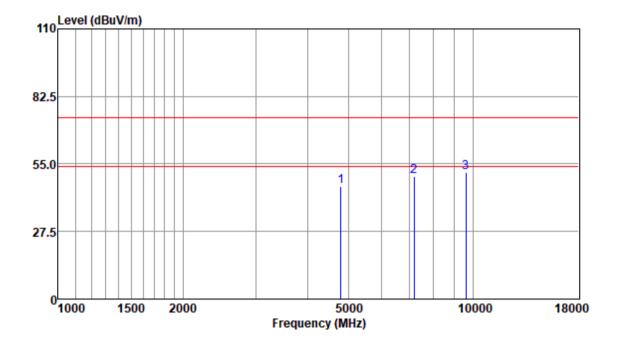
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#### Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



## Antenna Polarity :HORIZONTAL

<b>F</b>					Emission			Description
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	44.45	33.57	4.53	36.79	45.76	74.00	-28.24	Peak
7206.00	42.48	36.24	6.66	35.53	49.85	74.00	-24.15	Peak
9608.00	38.89	37.75	8.56	33.58	51.62	74.00	-22.38	Peak

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



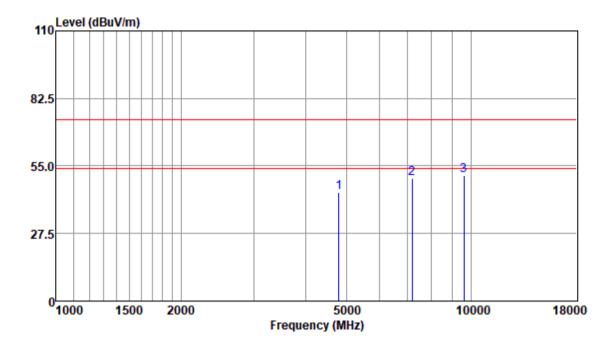
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## Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



## Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.14	33.57	4.53	36.79	44.45	74.00	-29.55	Peak
7206.00	42.55	36.24	6.66	35.53	49.92	74.00	-24.08	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



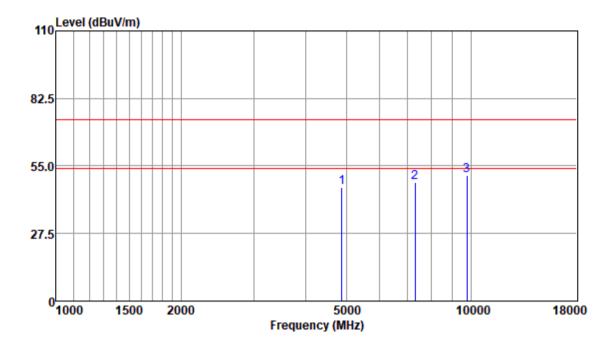
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#### Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



## Antenna Polarity :HORIZONTAL

Freq				-	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	44.79	33.66	4.73	36.81	46.37	74.00	-27.63	Peak
7320.00	41.00	36.33	6.59	35.42	48.50	74.00	-25.50	Peak
9760.00	38.51	37.54	8.69	33.50	51.24	74.00	-22.76	Peak

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



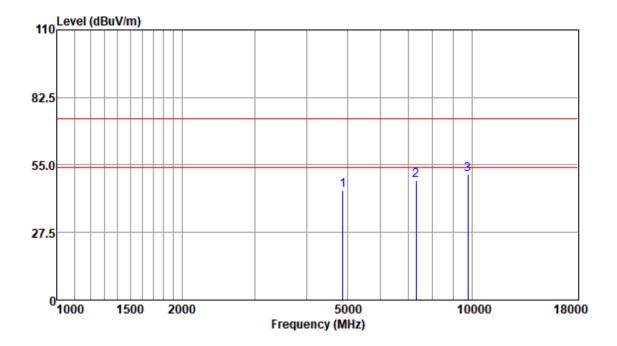
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## Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



## Antenna Polarity :VERTICAL

Fred					Emission Level			Remark
11Cq	Lever	1 ac coi	2033	i ac coi	Level	CINC	LIMIC	Nellion K
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	43.06	33.66	4.73	36.81	44.64	74.00	-29.36	Peak
7320.00	41.04	36.33	6.59	35.42	48.54	74.00	-25.46	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



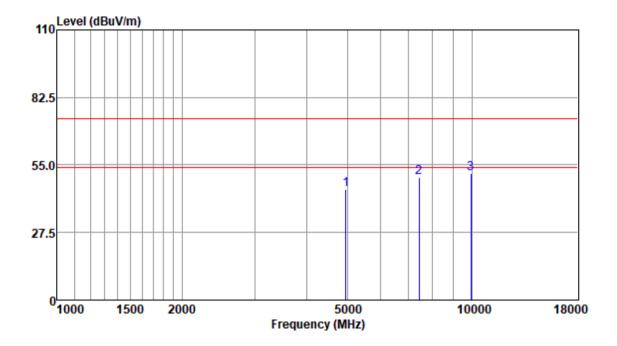
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## Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.15	33.65	4.92	36.83	44.89	74.00	-29.11	Peak
7440.00	42.30	36.31	6.61	35.34	49.88	74.00	-24.12	Peak
9920.00	38.46	37.62	8.87	33.41	51.54	74.00	-22.46	Peak

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



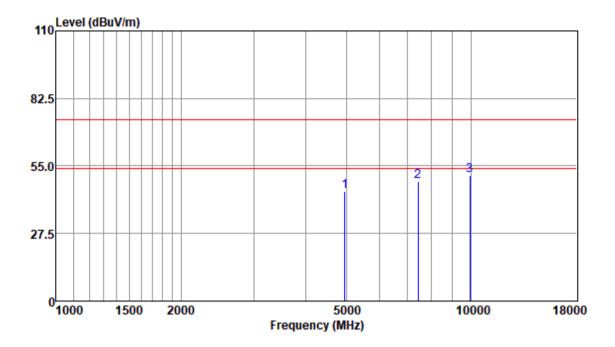
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### Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.86	33.65	4.92	36.83	44.60	74.00	-29.40	Peak
7440.00	41.13	36.31	6.61	35.34	48.71	74.00	-25.29	Peak
9920.00	38.20	37.62	8.87	33.41	51.28	74.00	-22.72	Peak

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



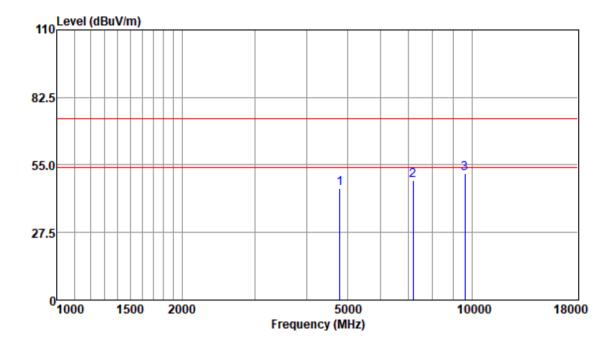
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.95	33.57	4.53	36.79	45.26	74.00	-28.74	Peak
7206.00	41.36	36.24	6.66	35.53	48.73	74.00	-25.27	Peak
9608.00	38.92	37.75	8.56	33.58	51.65	74.00	-22.35	Peak

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



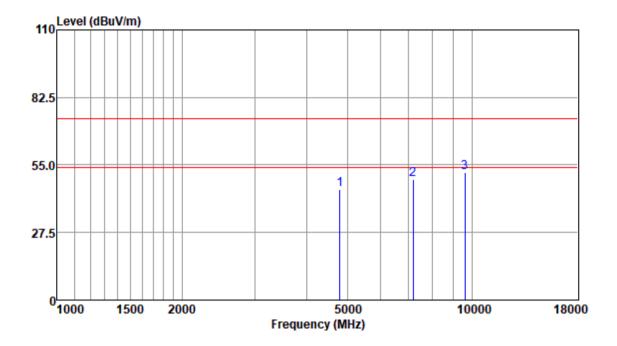
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

Free					Emission			Pomonic
Freq	rever	Factor	LOSS	Factor	Level	Line	LIMIC	кепагк
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.75	33.57	4.53	36.79	45.06	74.00	-28.94	Peak
7206.00	41.72	36.24	6.66	35.53	49.09	74.00	-24.91	Peak
9608.00	39.09	37.75	8.56	33.58	51.82	74.00	-22.18	Peak

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



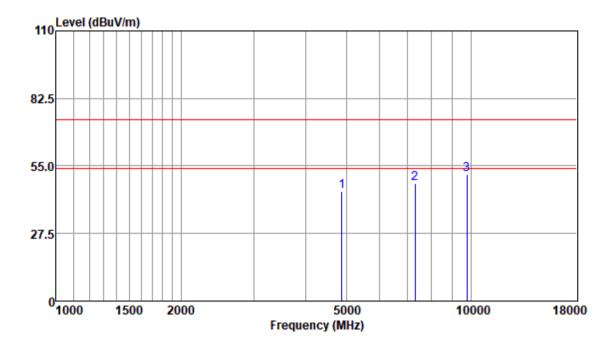
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

							Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
42.94	33.66	4.73	36.81	44.52	74.00	-29.48	Peak
40.49	36.33	6.59	35.42	47.99	74.00	-26.01	Peak
38.93	37.54	8.69	33.50	51.66	74.00	-22.34	Peak
	Level  dBuv 42.94 40.49	Level Factor dBuv dB/m 42.94 33.66 40.49 36.33	Level Factor Loss dBuv dB/m dB 42.94 33.66 4.73 40.49 36.33 6.59	Level Factor Loss Factor dBuv dB/m dB dB 42.94 33.66 4.73 36.81 40.49 36.33 6.59 35.42	Level Factor Loss Factor Level dBuv dB/m dB dB dBuv/m 42.94 33.66 4.73 36.81 44.52 40.49 36.33 6.59 35.42 47.99	Level Factor Loss Factor Level Line dBuv dB/m dB dB dBuv/m dBuv/m 42.94 33.66 4.73 36.81 44.52 74.00 40.49 36.33 6.59 35.42 47.99 74.00	Read         Antenna         Cable         Preamp         Emission         Limit         Over           Level         Factor         Loss         Factor         Level         Line         Limit           dBuv         dB/m         dB         dB         dBuv/m         dBuv/m         dB           42.94         33.66         4.73         36.81         44.52         74.00         -29.48           40.49         36.33         6.59         35.42         47.99         74.00         -26.01           38.93         37.54         8.69         33.50         51.66         74.00         -22.34

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



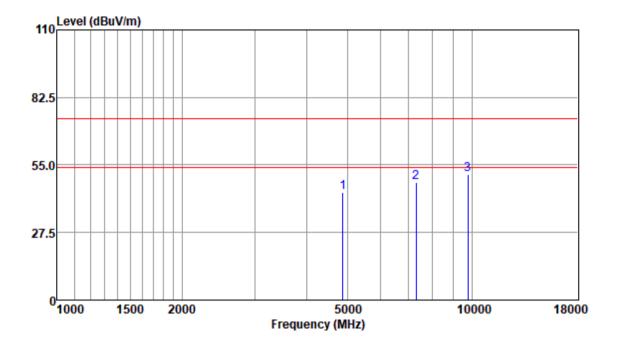
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.26	33.66	4.73	36.81	43.84	74.00	-30.16	Peak
7320.00	40.26	36.33	6.59	35.42	47.76	74.00	-26.24	Peak
9760.00	38.57	37.54	8.69	33.50	51.30	74.00	-22.70	Peak

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



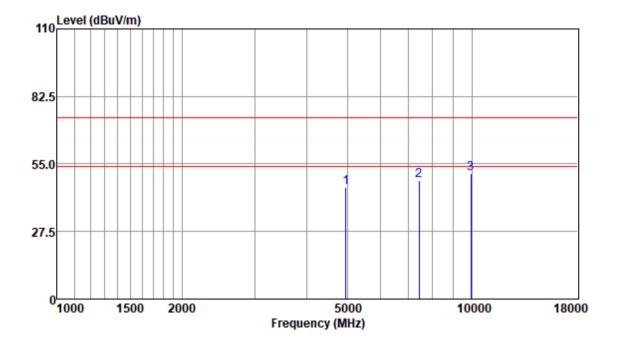
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### Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



#### Antenna Polarity :HORIZONTAL

Freq				-	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.71	33.65	4.92	36.83	45.45	74.00	-28.55	Peak
7440.00	40.80	36.31	6.61	35.34	48.38	74.00	-25.62	Peak
9920.00	37.95	37.62	8.87	33.41	51.03	74.00	-22.97	Peak

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



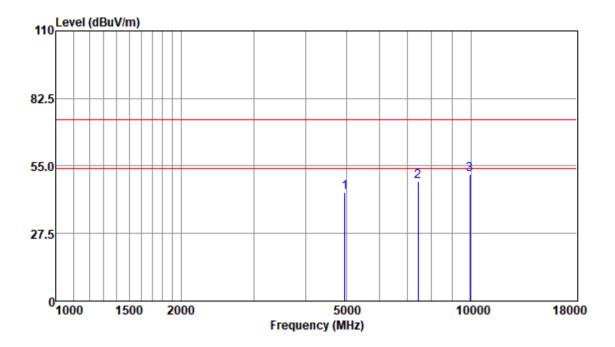
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### Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.59	33.65	4.92	36.83	44.33	74.00	-29.67	Peak
7440.00	41.20	36.31	6.61	35.34	48.78	74.00	-25.22	Peak
9920.00	38.33	37.62	8.87	33.41	51.41	74.00	-22.59	Peak

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



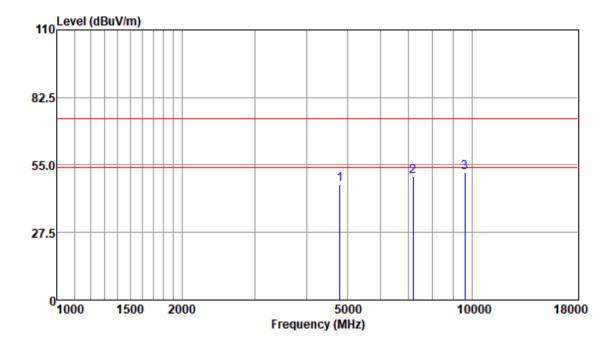
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	45.80	33.57	4.53	36.79	47.11	74.00	-26.89	Peak
7206.00	42.81	36.24	6.66	35.53	50.18	74.00	-23.82	Peak
9608.00	39.35	37.75	8.56	33.58	52.08	74.00	-21.92	Peak

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



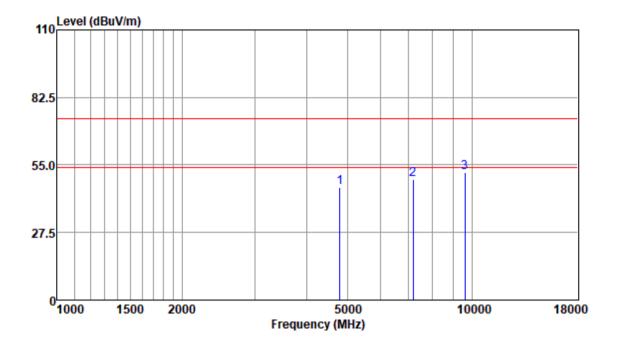
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

<b>F</b>					Emission			Description
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	44.45	33.57	4.53	36.79	45.76	74.00	-28.24	Peak
7206.00	41.91	36.24	6.66	35.53	49.28	74.00	-24.72	Peak
9608.00	39.26	37.75	8.56	33.58	51.99	74.00	-22.01	Peak

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



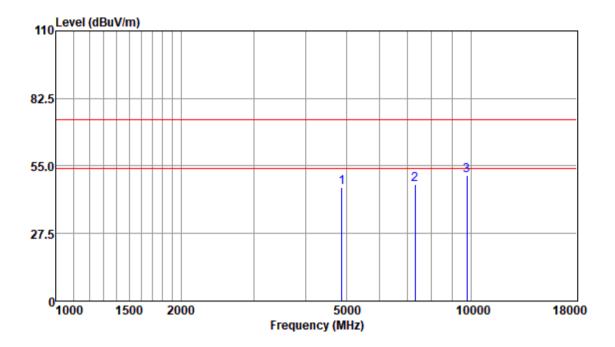
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	44.67	33.66	4.73	36.81	46.25	74.00	-27.75	Peak
7320.00	40.11	36.33	6.59	35.42	47.61	74.00	-26.39	Peak
9760.00	38.60	37.54	8.69	33.50	51.33	74.00	-22.67	Peak

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



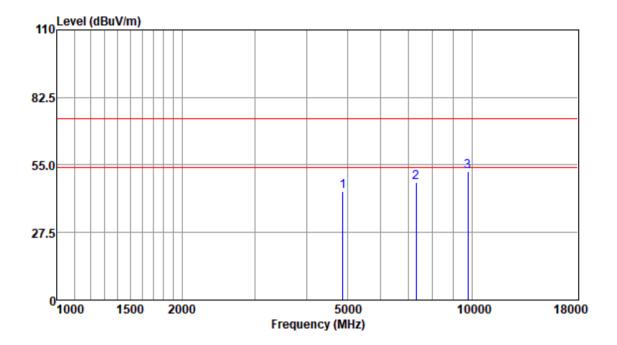
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.49	33.66	4.73	36.81	44.07	74.00	-29.93	Peak
7320.00	40.31	36.33	6.59	35.42	47.81	74.00	-26.19	Peak
9760.00	39.49	37.54	8.69	33.50	52.22	74.00	-21.78	Peak

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



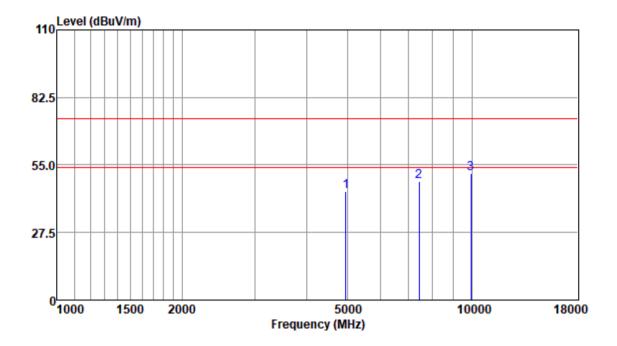
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### Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	42.52	33.65	4.92	36.83	44.26	74.00	-29.74	Peak
7440.00	40.91	36.31	6.61	35.34	48.49	74.00	-25.51	Peak
9920.00	38.55	37.62	8.87	33.41	51.63	74.00	-22.37	Peak

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



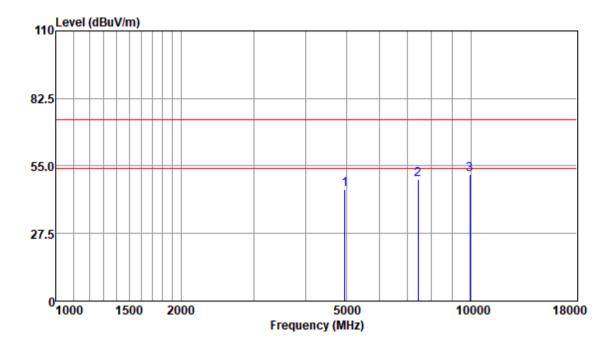
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### Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.64	33.65	4.92	36.83	45.38	74.00	-28.62	Peak
7440.00	41.96	36.31	6.61	35.34	49.54	74.00	-24.46	Peak
9920.00	38.54	37.62	8.87	33.41	51.62	74.00	-22.38	Peak

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



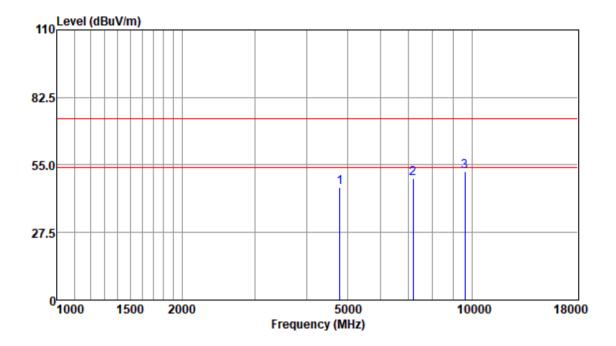
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#### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



### Antenna Polarity :HORIZONTAL

<b>F</b>					Emission			Demanda
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	44.70	33.57	4.53	36.79	46.01	74.00	-27.99	Peak
7206.00	42.04	36.24	6.66	35.53	49.41	74.00	-24.59	Peak
9608.00	39.65	37.75	8.56	33.58	52.38	74.00	-21.62	Peak

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



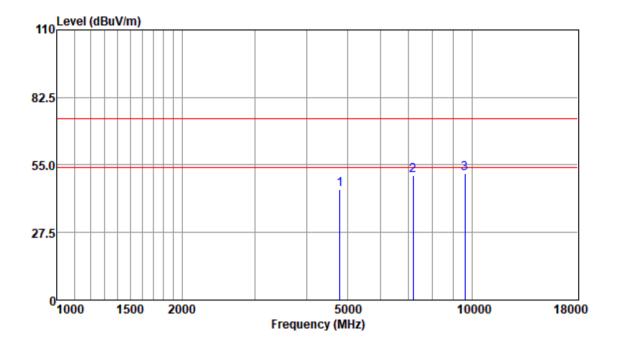
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



### Antenna Polarity :VERTICAL

Enog					Emission			Romank
Freq	rever	Factor	LOSS	Factor	Level	LTHE	LTIIITC	<b>Velila</b> LK
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	43.88	33.57	4.53	36.79	45.19	74.00	-28.81	Peak
7206.00	43.23	36.24	6.66	35.53	50.60	74.00	-23.40	Peak
9608.00	38.81	37.75	8.56	33.58	51.54	74.00	-22.46	Peak

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



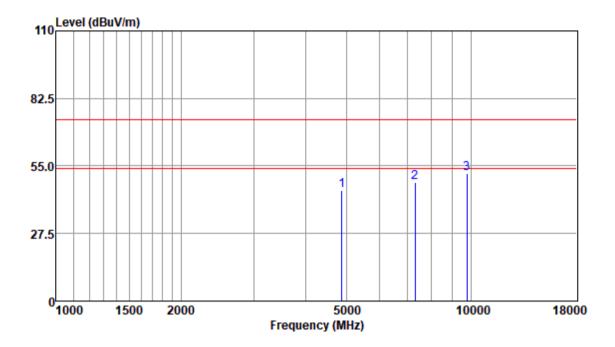
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### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	43.40	33.66	4.73	36.81	44.98	74.00	-29.02	Peak
7320.00	40.81	36.33	6.59	35.42	48.31	74.00	-25.69	Peak
9760.00	39.21	37.54	8.69	33.50	51.94	74.00	-22.06	Peak

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



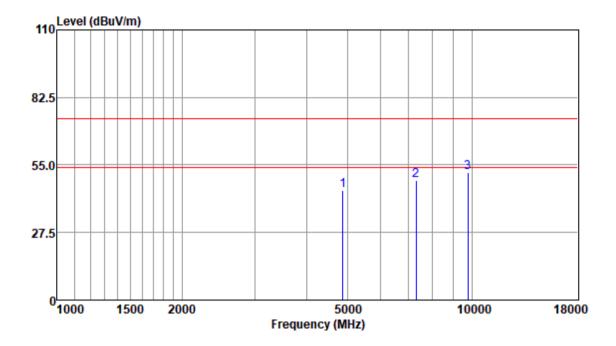
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	42.96	33.66	4.73	36.81	44.54	74.00	-29.46	Peak
7320.00	41.31	36.33	6.59	35.42	48.81	74.00	-25.19	Peak
9760.00	39.27	37.54	8.69	33.50	52.00	74.00	-22.00	Peak

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



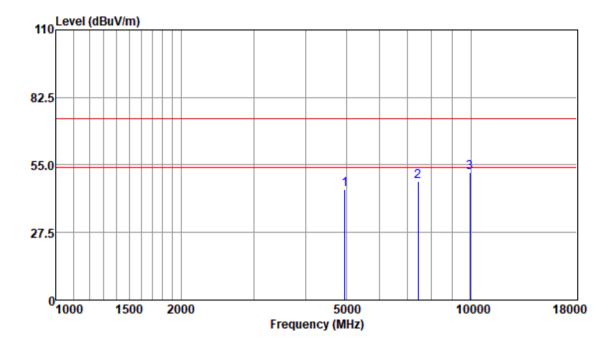
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### Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.29	33.65	4.92	36.83	45.03	74.00	-28.97	Peak
7440.00	40.53	36.31	6.61	35.34	48.11	74.00	-25.89	Peak
9920.00	38.78	37.62	8.87	33.41	51.86	74.00	-22.14	Peak

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



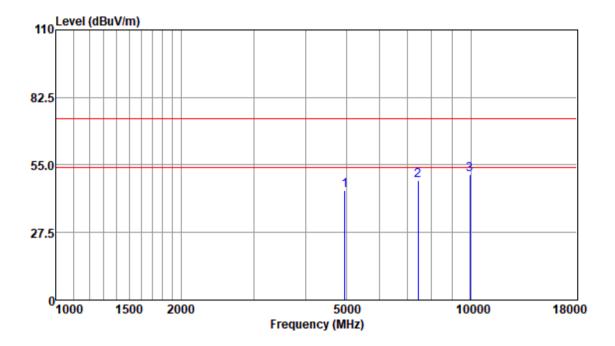
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### Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	43.09	33.65	4.92	36.83	44.83	74.00	-29.17	Peak
7440.00	41.17	36.31	6.61	35.34	48.75	74.00	-25.25	Peak
9920.00	38.03	37.62	8.87	33.41	51.11	74.00	-22.89	Peak

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



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### 7.9 99% Bandwidth

Test Requirement	RSS-Gen Section 6.7
Test Method:	ANSI C63.10 Section 6.9.3

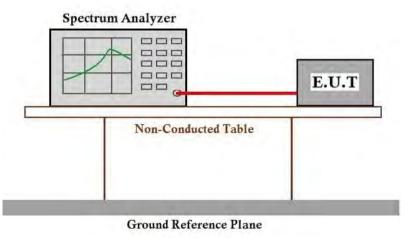
### 7.9.1 E.U.T. Operation

Operating Environment:Temperature:24.7 °CHumidity:63.6 % RHAtmospheric Pressure:1010mbar

### 7.9.2 Test Mode Description

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

### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2305001033HS

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2305001033HS

# 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	0.664	2401.660	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.660	2440.320	0.5	PASS
		2480	0.664	2479.656	2480.320	0.5	PASS
		2402	1.384	2401.256	2402.640	0.5	PASS
BLE_2M	Ant1	2440	1.352	2439.308	2440.660	0.5	PASS
		2480	1.408	2479.260	2480.668	0.5	PASS



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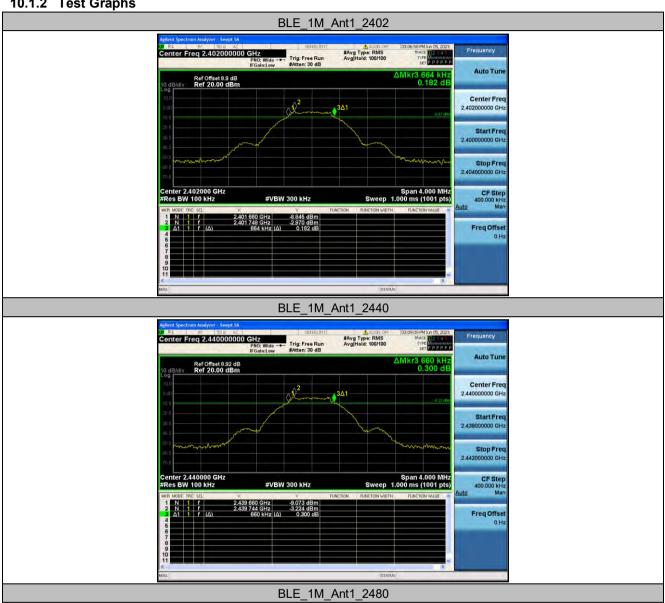
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#### 10.1.2 Test Graphs

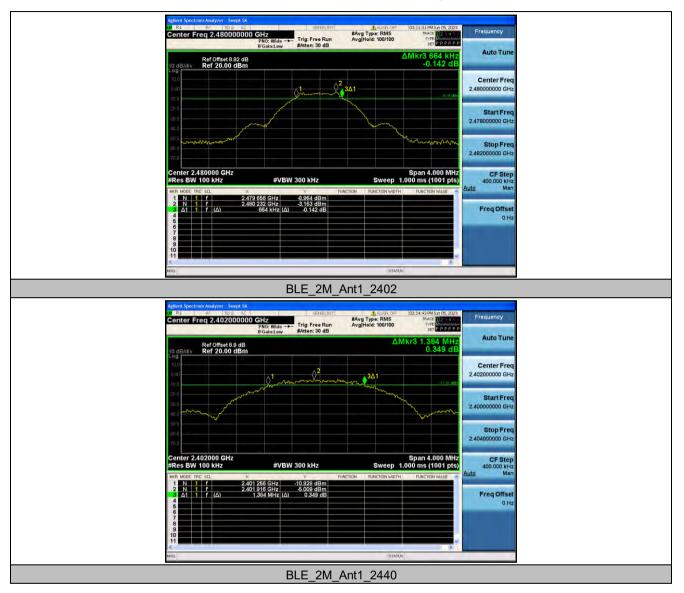


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### 10.2 Appendix B: Occupied Channel Bandwidth

10.2.1 Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.0327	2401.4717	2402.5044		
BLE_1M	Ant1	2440	1.0114	2439.4861	2440.4975		
		2480	1.0183	2479.4855	2480.5038		
		2402	2.0532	2400.9722	2403.0254		
BLE_2M	Ant1	2440	2.0379	2438.9746	2441.0125		
		2480	2.0457	2478.9593	2481.0050		



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BLE 1M Ant1 2402 Center Freq: 2.402000000 GHz Trig: Free Run Availate 03:07:05 PM Jun 05, Radio Std: None Frequency enter Freq 2.402000000 GHz Id: 100/100 Radio Device: BTS 2.402072 GH -5.0247 dBr Ref Offset 8.9 dB Ref 20.00 dBm Center Free 2,40200000 GH: CF Step 400.000 kH Ma enter 2.402 GHz Res BW 43 kHz Span 4 MHz Sweep 2.067 ms #VBW 130 kHz Total Power 4.73 dBm Occupied Bandwidth 1.0327 MHz Freq Offs Transmit Freq Error -11.944 kHz **OBW Power** 99.00 % 01 x dB Bandwidth 1.327 MHz x dB -26.00 dB BLE 1M Ant1 2440 SENSE VIT Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB 03:09:17 PM Jun 05, 2 Radio Std: None Frequency enter Freq 2.440000000 GH Radio Device: BTS 2.44004 GH -4.3512 dBr Ref Offset 8.92 dB Ref 20.00 dBm Center Fre 2.440000000 GH CF Ster 400.000 kH Ma Span 4 MHz Sweep 2.067 ms enter 2.44 GHz Res BW 43 kHz #VBW 130 kHz Total Power 5.02 dBm Occupied Bandwidth 1.0114 MHz Freq Offs Transmit Freq Error -8.241 kHz **OBW Power** 99.00 % OH 1.282 MHz -26.00 dB x dB Bandwidth x dB BLE\_1M\_Ant1\_2480

#### 10.2.2 Test Graphs

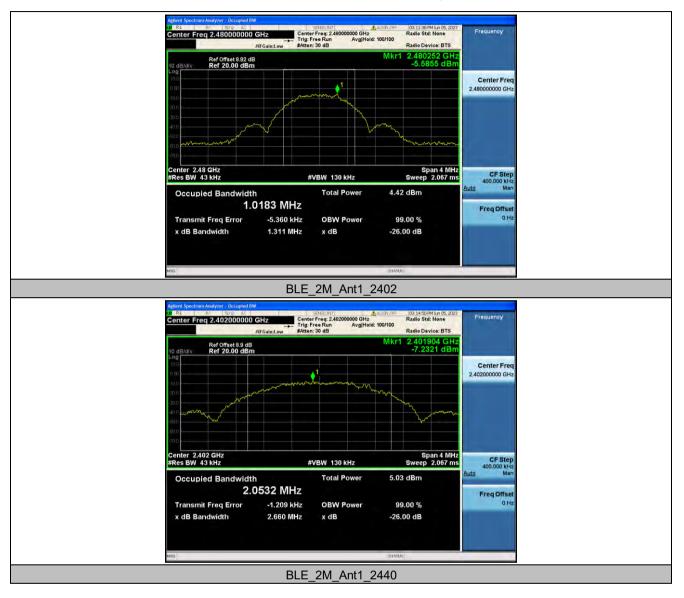


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### 10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	-2.46	≤30	PASS
BLE_1M	BLE_1M Ant1	2440	-2.42	≤30	PASS
		2480	-2.77	≤30	PASS
		2402	-2.49	≤30	PASS
BLE_2M	Ant1	2440	-2.47	≤30	PASS
		2480	-2.76	≤30	PASS



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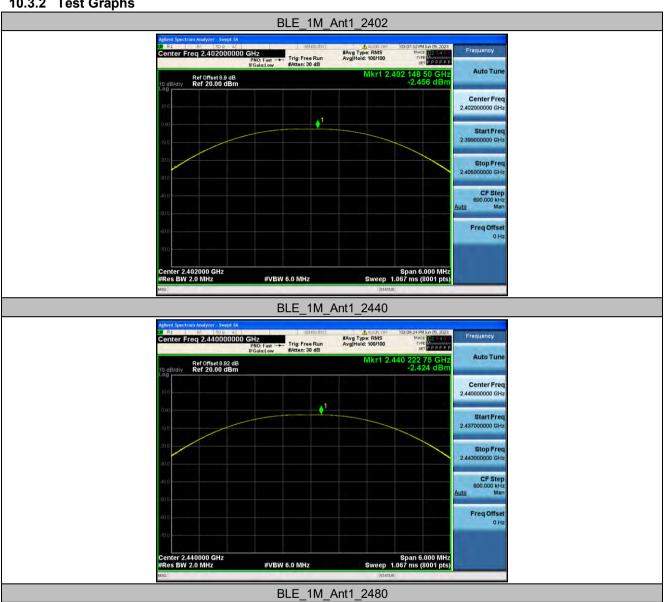
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#### 10.3.2 Test Graphs

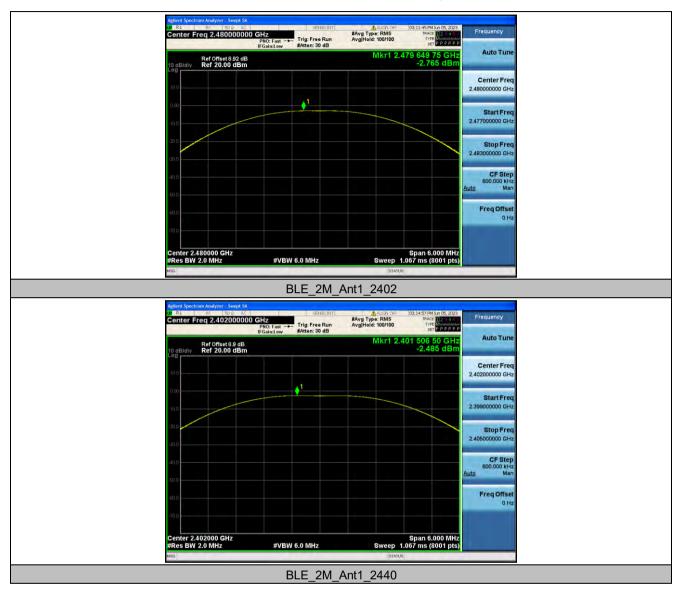


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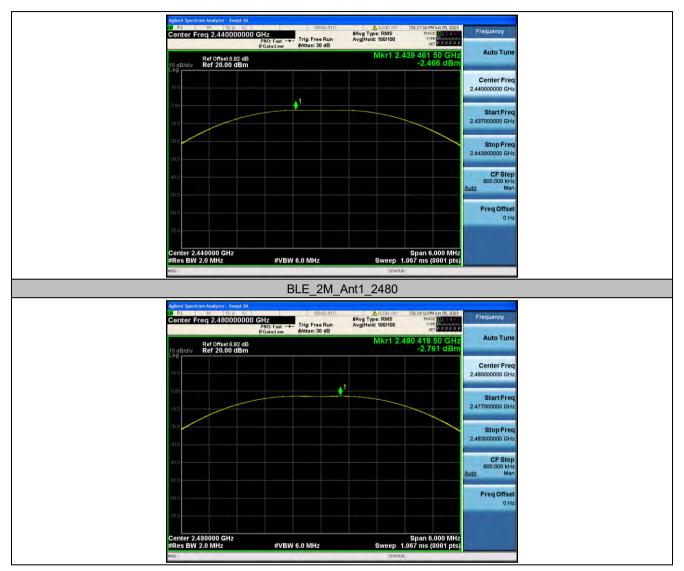


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### 10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
			-11.9	≤8.00	PASS
BLE_1M	Ant1	2440	-11.85	≤8.00	PASS
		2480	-12.77	≤8.00	PASS
		2402	-15.43	≤8.00	PASS
BLE_2M	Ant1	2440	-14.06	≤8.00	PASS
		2480	-15	≤8.00	PASS



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10.4.2 Test Graphs BLE 1M Ant1 2402 #Avg Type: RMS Avg Hold: 100/100 Frequency nter Freq 2.402000000 GHz Trig: Free Run Auto Tun 2 043 54 GI -11.901 dE Ref Offset 8.9 dB Ref 20.00 dBm Center Free 2,402000000 GH Start Free 1 2.401502000 GH Address - Antes in here and the starting with the Stop Fre 2.40 498000 GH CF Ster 99.600 kH Mar Freq Offs 01 Span 996.0 kHz Sweep 106.0 ms (30000 pts nter 2.4020000 GHz es BW 3.0 kHz #VBW 10 kHz BLE\_1M\_Ant1 2440 Frequency ter Freq 2.44000000 GH #Avg Type: RMS Trig: Free Run Auto Tun Ref Offset 8.92 dB Ref 20.00 dBm 0 012 92 GI -11.851 dB Center Fre 2.440000000 GH Start Free an in the second states and the second 2.439505000 G Liffatel Stop Free 2.440495000 GH CF Step 99.000 kH Ma Freq Offs OH Span 990.0 kHz Sweep 106.0 ms (30000 nter 2.4400000 GHz es BW 3.0 kHz #VBW 10 kHz BLE\_1M\_Ant1\_2480

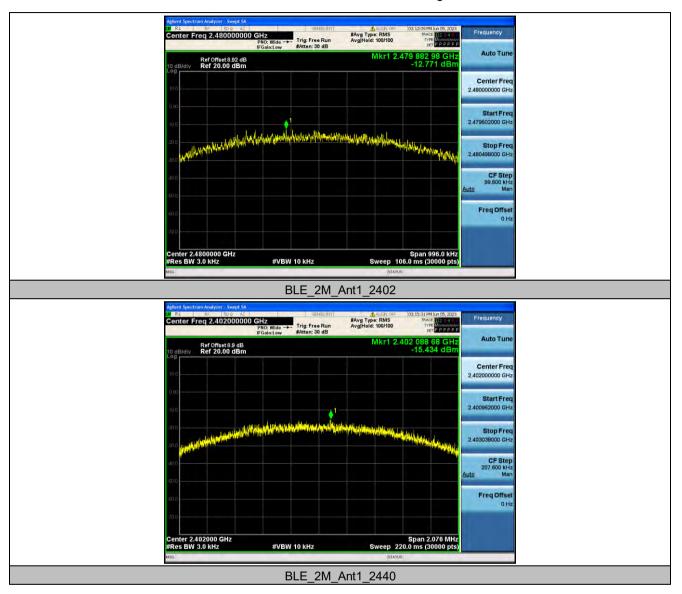


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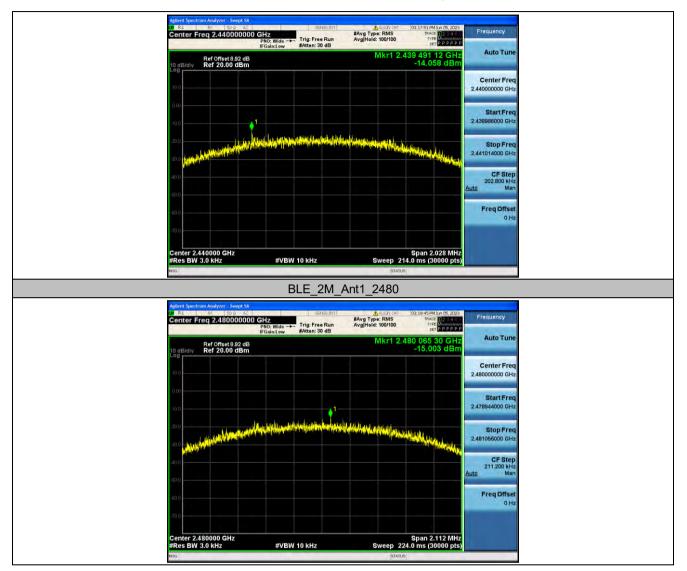


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#### 10.5 Appendix E: Band edge measurements

10.5.1 Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1M	Ant1	Low	2402	-3.04	-49.52	≤-23.04	PASS
DLC_IM	Anti	High	2480	-3.50	-49.39	≤-23.5	PASS
BLE 2M	Ant1	Low	2402	-4.17	-39.19	≤-24.17	PASS
DLE_2M		High	2480	-5.38	-49.22	≤-25.38	PASS



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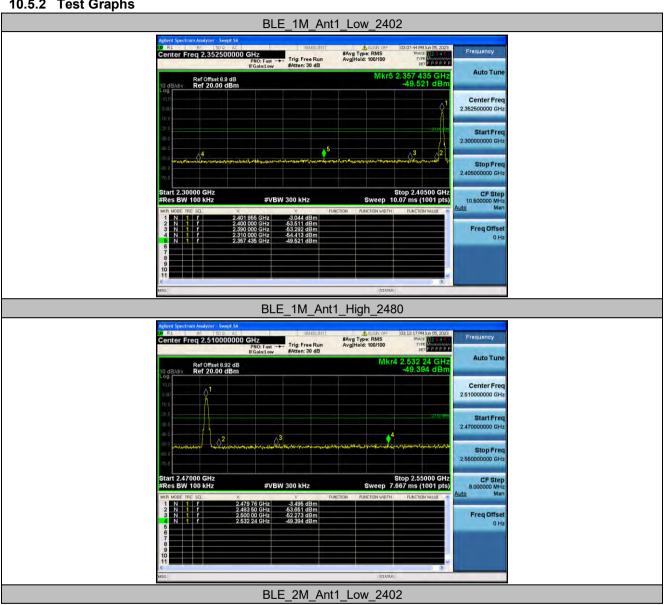
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#### 10.5.2 Test Graphs

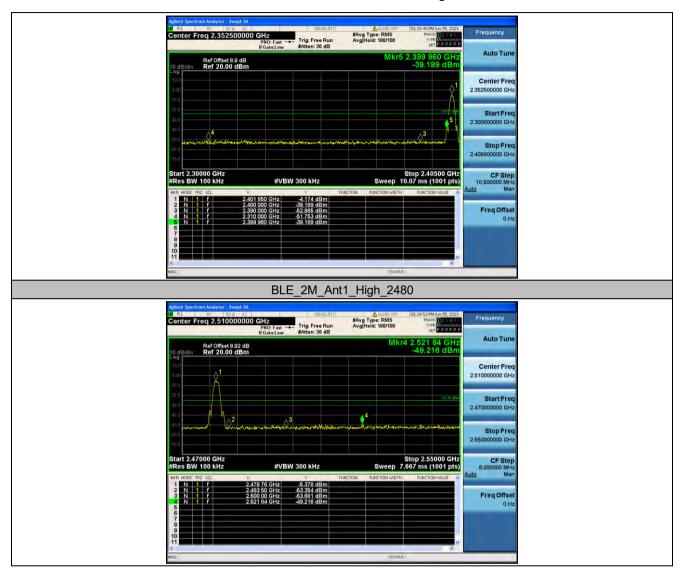


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#### 10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	-4.10	-4.10		PASS
		2402	30~1000	-4.10	-61.81	≤-24.1	PASS
			1000~26500	-4.10	-43.04	≤-24.1	PASS
			Reference	-3.01	-3.01		PASS
BLE_1M	Ant1	2440	30~1000	-3.01	-62.42	≤-23.01	PASS
			1000~26500	-3.01	-42.8	≤-23.01	PASS
		2480	Reference	-3.19	-3.19		PASS
			30~1000	-3.19	-61.98	≤-23.19	PASS
			1000~26500	-3.19	-42.93	≤-23.19	PASS
		2402	Reference	-5.09	-5.09		PASS
			30~1000	-5.09	-61.4	≤-25.09	PASS
			1000~26500	-5.09	-43.02	≤-25.09	PASS
			Reference	-5.08	-5.08		PASS
BLE_2M	Ant1	2440	30~1000	-5.08	-61.6	≤-25.08	PASS
			1000~26500	-5.08	-43.08	≤-25.08	PASS
			Reference	-5.65	-5.65		PASS
		2480	30~1000	-5.65	-61.82	≤-25.65	PASS
			1000~26500	-5.65	-43.44	≤-25.65	PASS



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BLE\_1M\_Ant1\_2402\_0~Reference #Avg Type: RMS AvgHold: 10/10 Frequency nter Freq 2.402000000 GHz Trig: Free Run Auto Tun 02 018 ( -4 095 d Ref Offset 8.9 dB Ref 28.90 dBm Center Free 2,402000000 GH Start Free 2.400500000 GH Stop Fre 2.403500000 GH CF Ster 300.000 kH Mai Freq Offs 01 Span 3.000 MHz Sweep 1.000 ms (1001 pts nter 2.402000 GHz #VBW 300 kHz BLE\_1M\_Ant1\_2402 30~1000 Frequency nter Freq 515.000000 MHz #Avg Type: RMS Trig: Free Run Auto Tun Ref Offset 8.9 dB Ref 18.90 dBm -61.811 dB Center Fre 515.000000 MH Start Free 30.000000 MH Stop Free 1.00000000 GH CF Step 97.00 M Freq Offs 01 Stop 1.0000 GHz Sweep 94.00 ms (30001 pts #VBW 300 kHz BLE\_1M\_Ant1\_2402\_1000~26500

#### 10.6.2 Test Graphs

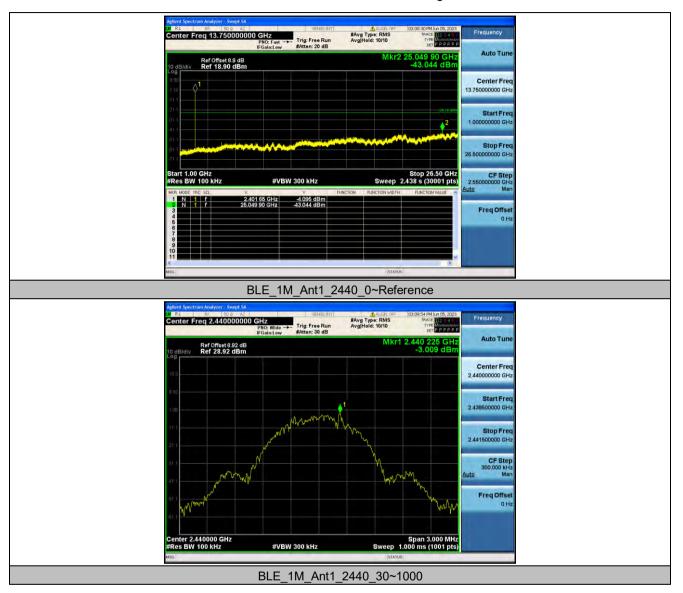


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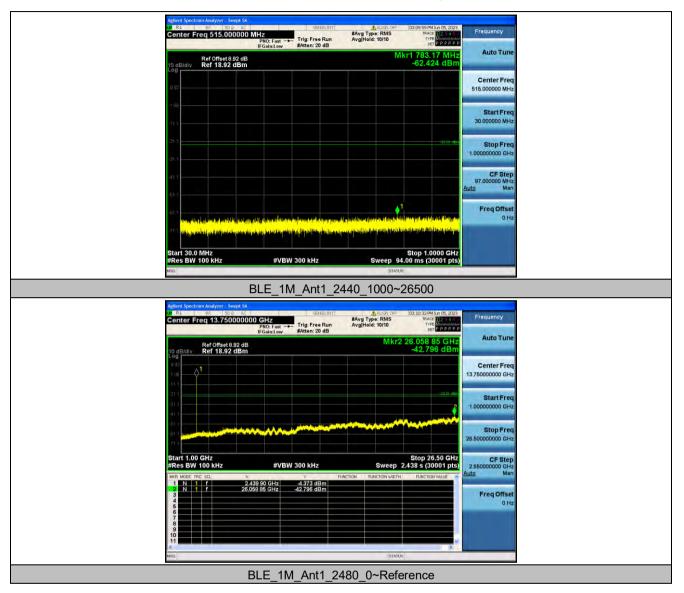


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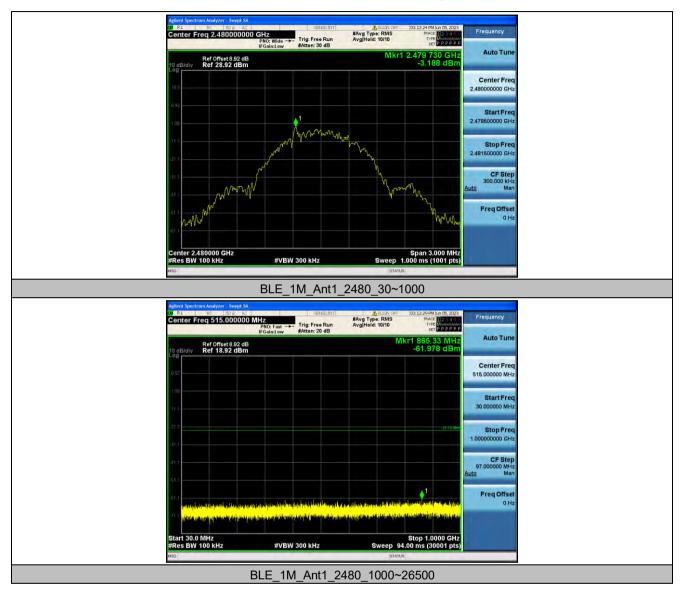


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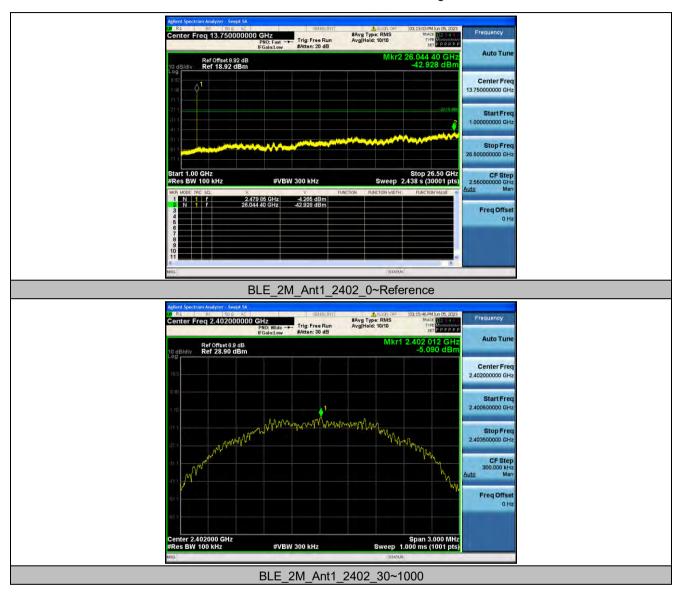


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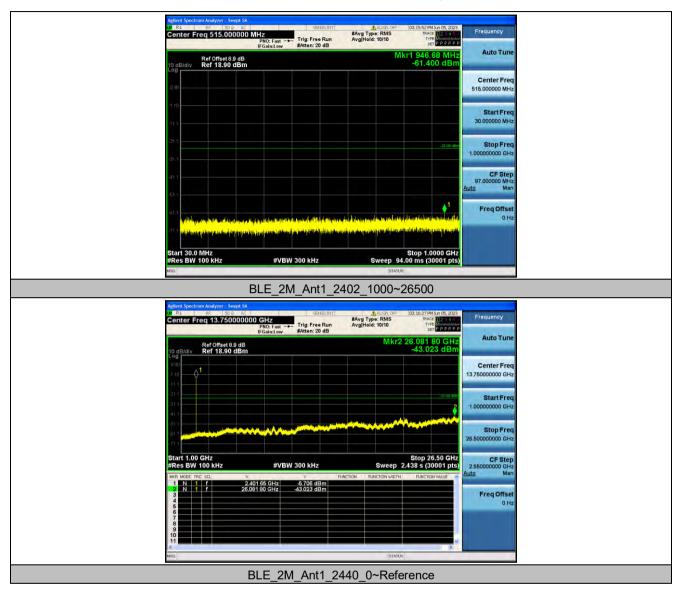


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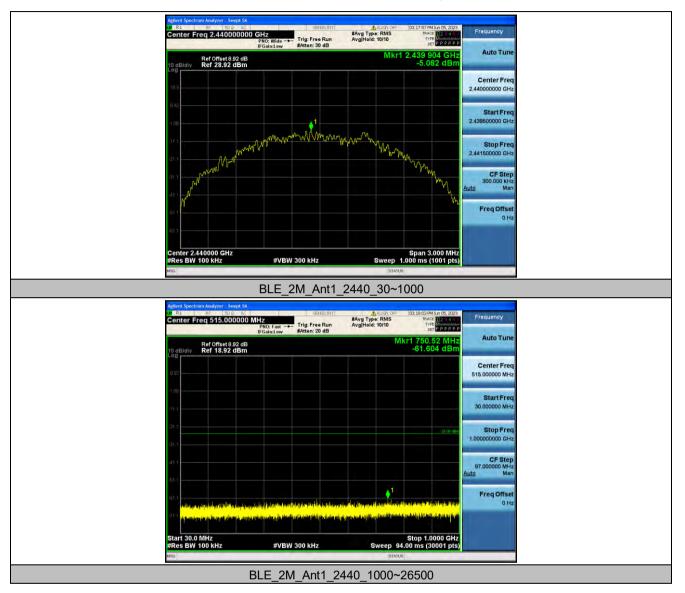


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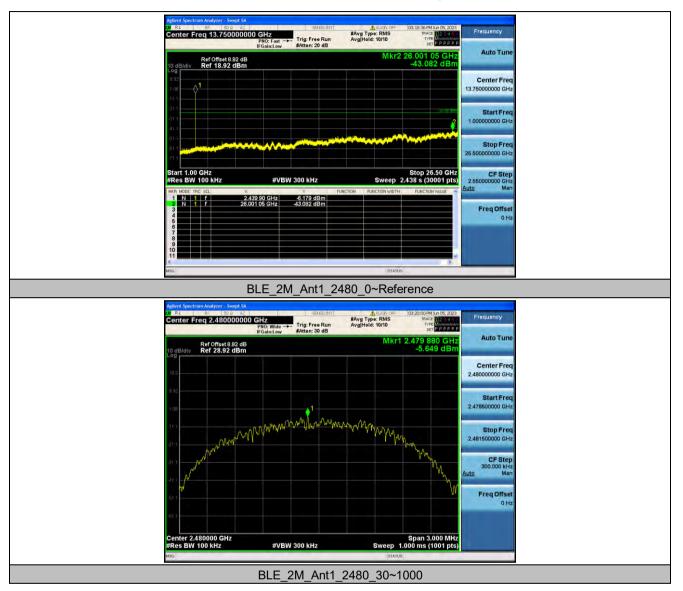


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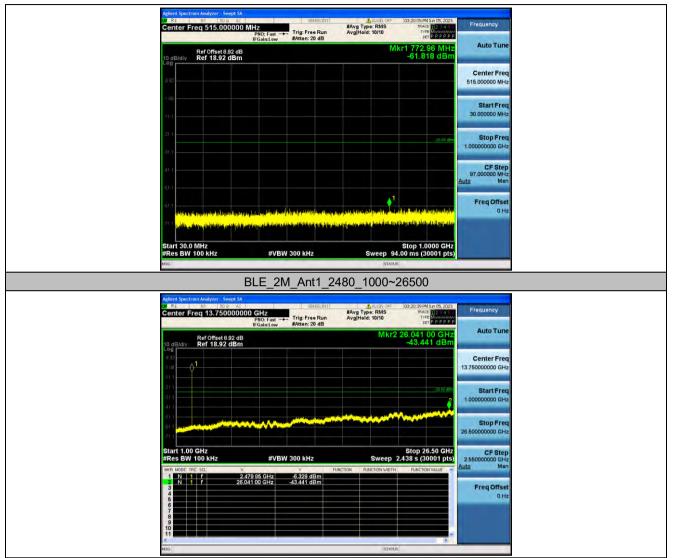


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