

TEST REPORT

Application No.: SHEM2106006266CR
FCC ID: 2A2CXFBBL001
Applicant: Suijimanbu (Shanghai) Sports Technology Co., Ltd.
Address of Applicant: 1201 Building B, Greenbelt Cnvergence Center, 500 Yunjin Road, Xuhui District, Shanghai, China
Manufacturer: Suijimanbu (Shanghai) Sports Technology Co., Ltd.
Address of Manufacturer: 1201 Building B, Greenbelt Cnvergence Center, 500 Yunjin Road, Xuhui District, Shanghai, China
Factory: WNQ (Shanghai) Body-building Equipment Co., Ltd
Address of Factory: No.388, Belying Road, No.1588, Beiyong Road, Qingpu Area, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Dumbbell
Model No.: freebell
Trade mark: freebeat
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-06-17
Date of Test: 2021-06-22 to 2021-07-01
Date of Issue: 2021-07-07

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

Parlam Zhan

Parlam Zhan
Laboratory Manager


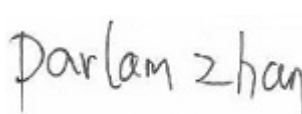
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant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



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-07-07	/

Authorized for issue by:			
			
		Vincent Zhu /Project Engineer	
			
		Parlam Zhan / Reviewer	



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2 Test Summary

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

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



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.7V,360mAh from rechargeable battery
Test voltage:	DC 3.7V
Antenna Gain:	0dBi (Provided by manufacturer)
Antenna Type:	PCB Antenna
Bluetooth Version:	V5.0 LE Single mode
Data Rate:	1Mb/s , 2Mb/s
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Operation Frequency:	2402MHz to 2480MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Power level setting using in test:

Channel	Level
2402	1F(MAX)
2440	1F(MAX)
2480	1F(MAX)

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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4.5 Test Location

All tests were performed at:

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

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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	2020-12-20	2021-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2020-08-13	2021-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2020-08-13	2021-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2020-08-13	2021-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2020-08-13	2021-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2020-08-13	2021-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2020-08-13	2021-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	/	2020-12-20	2021-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-amplifier (9kHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2020-08-13	2021-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2020-08-13	2021-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2020-08-13	2021-08-12
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	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.1112 21a	/	/



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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 PCB antenna and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

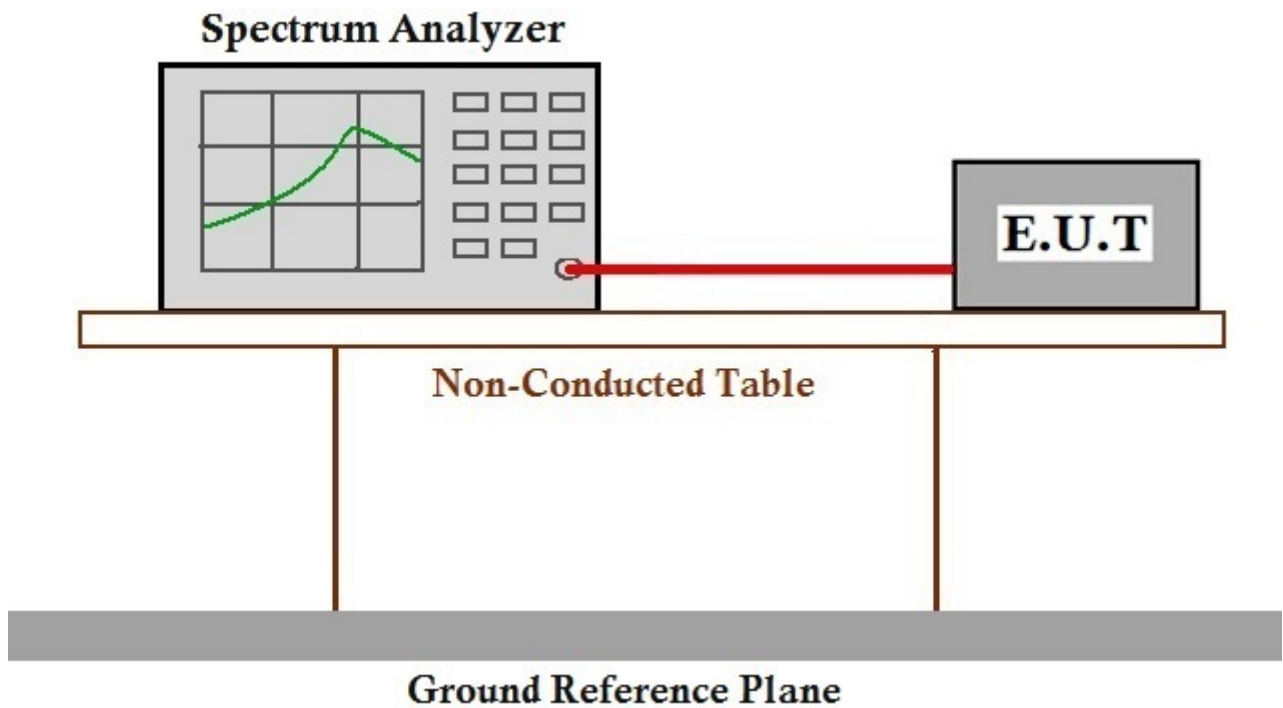
Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2013) Section 11.8.1
 Limit: ≥ 500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar
 Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600626601



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7.2 Conducted Peak Output Power

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

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

Limit:

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

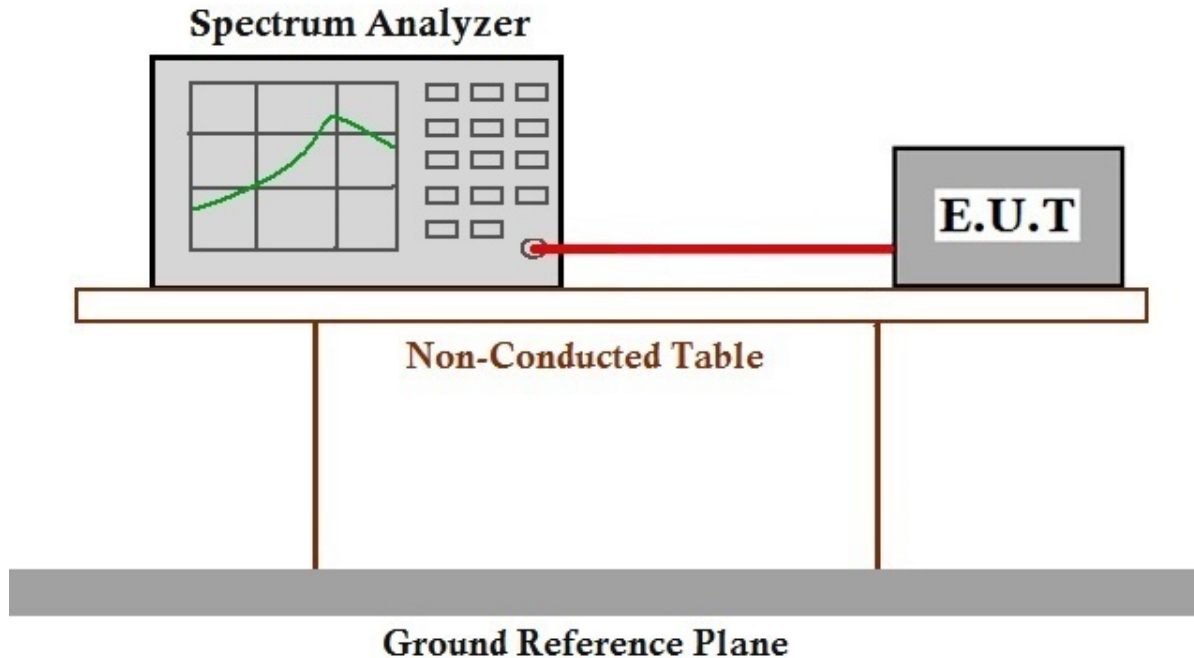
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600626601



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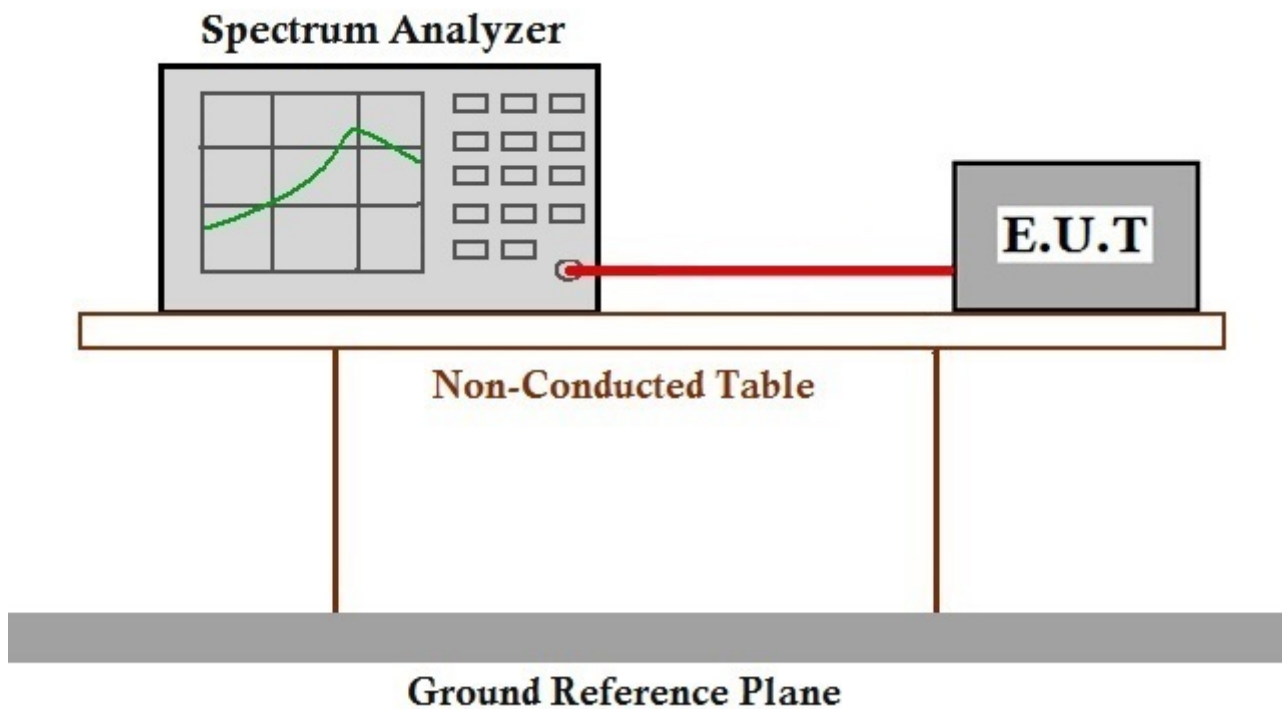
7.3 Power Spectrum Density

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

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar
 Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600626601



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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))



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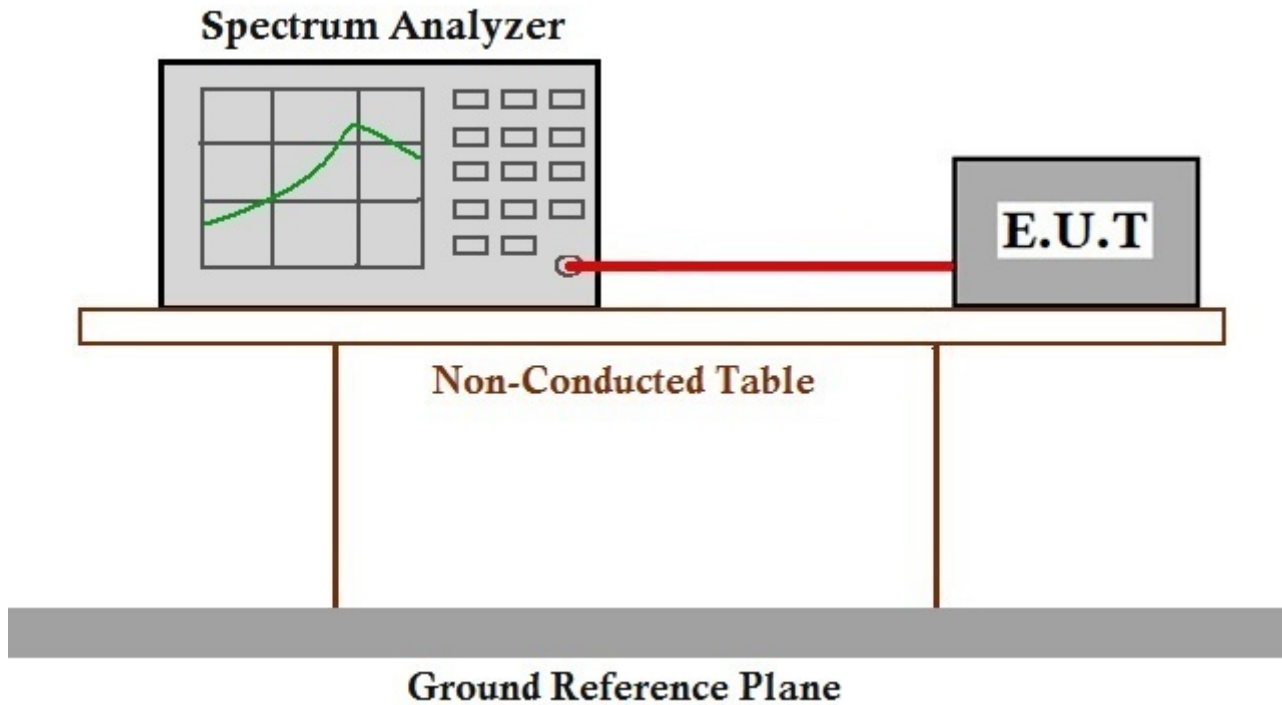
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600626601



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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))



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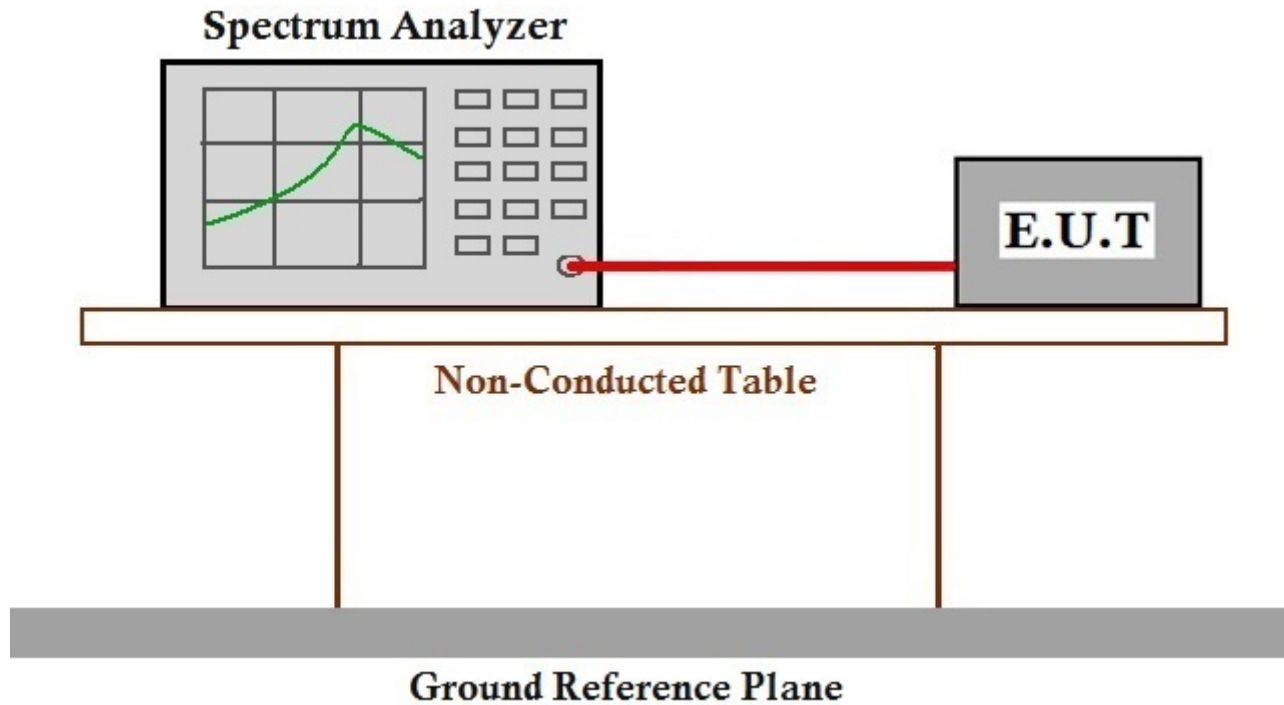
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600626601



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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.



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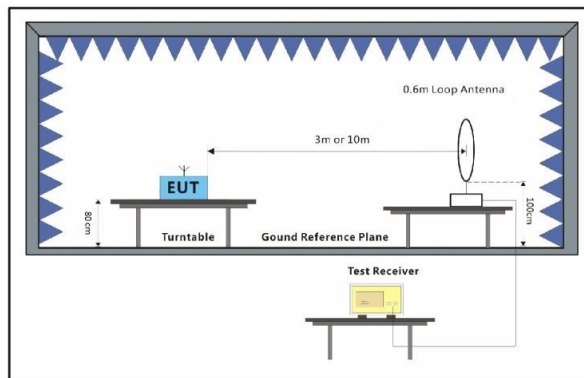
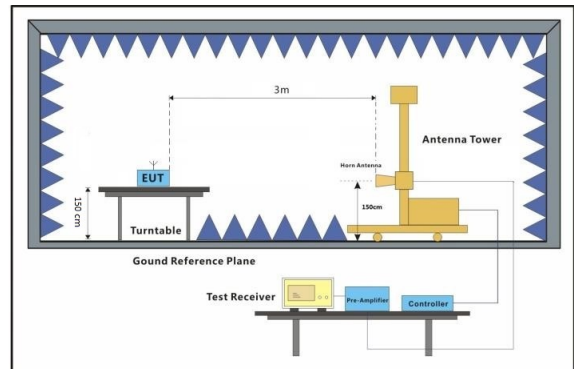
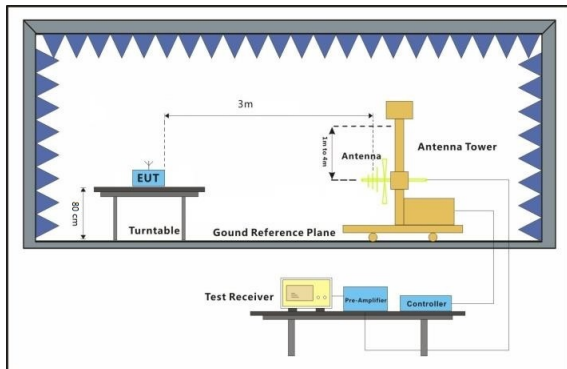
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.6.2 Test Setup Diagram



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7.6.3 Measurement Procedure and Data

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

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

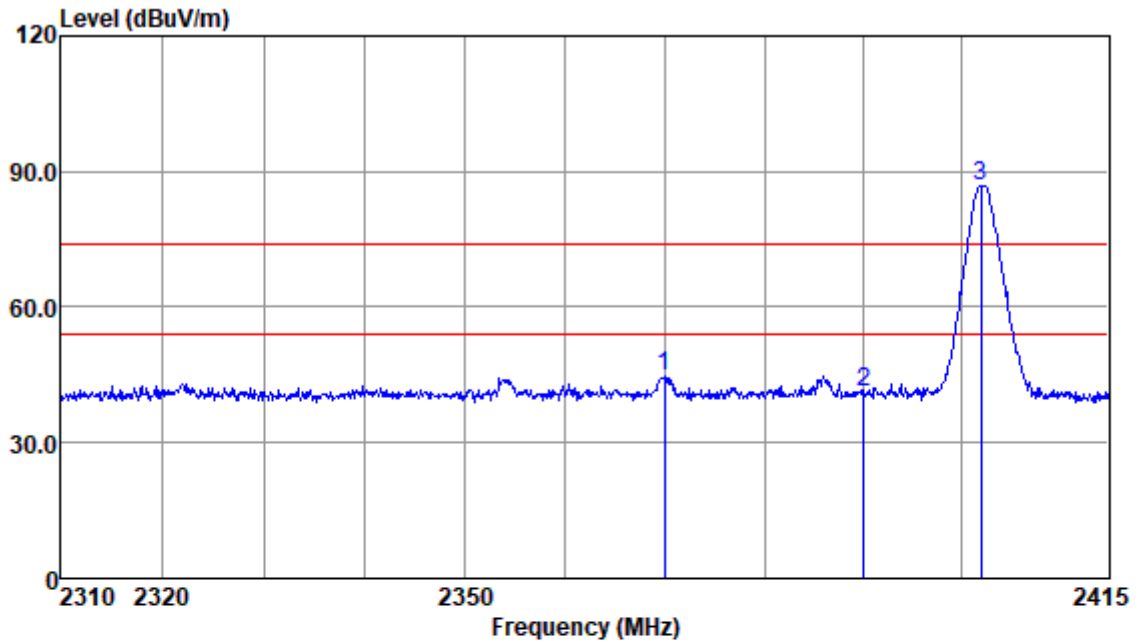
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



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1M

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



Antenna Polarity :HORIZONTAL

Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2369.91	53.02	26.01	3.17	37.39	44.81	74.00	-29.19	Peak
2390.00	49.19	26.03	3.15	37.40	40.97	74.00	-33.03	Peak
2401.94	95.21	26.05	3.14	37.40	87.00	74.00	13.00	Peak

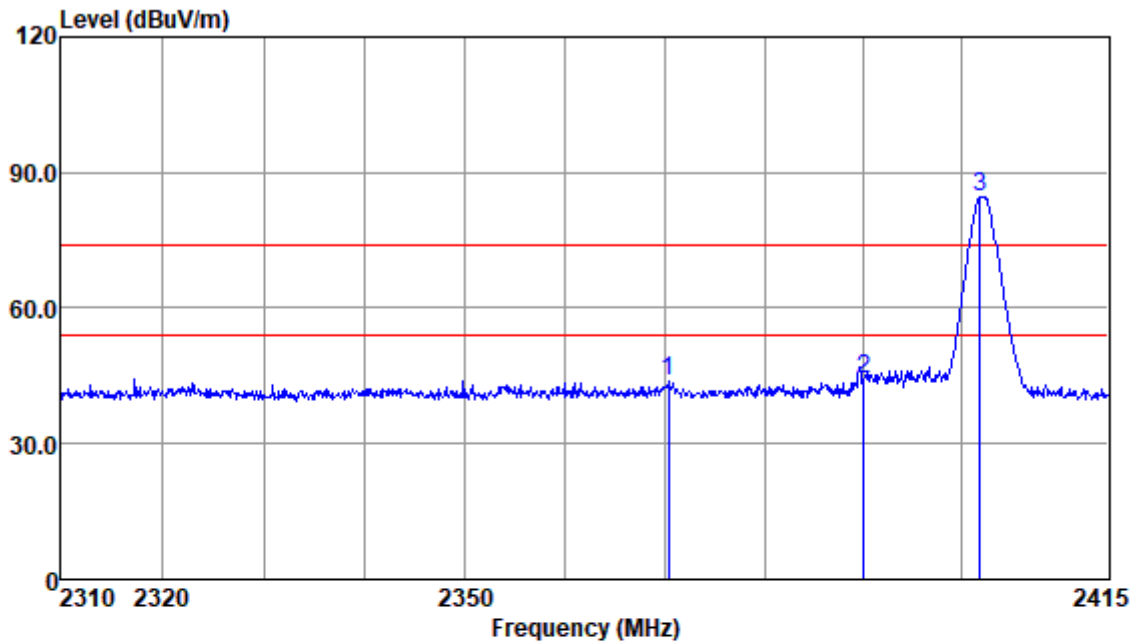
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

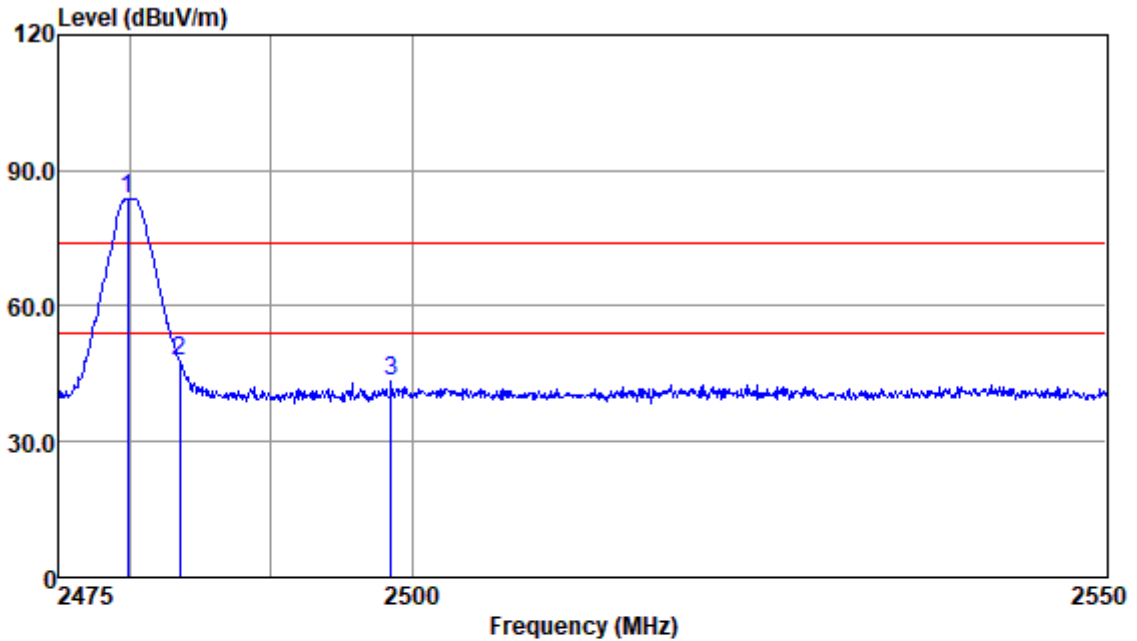
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2370.33	51.97	26.01	3.17	37.39	43.76	74.00	-30.24	Peak
2390.00	52.62	26.03	3.15	37.40	44.40	74.00	-29.60	Peak
2401.83	92.77	26.05	3.15	37.40	84.57	74.00	10.57	Peak

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



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



Antenna Polarity :HORIZONTAL

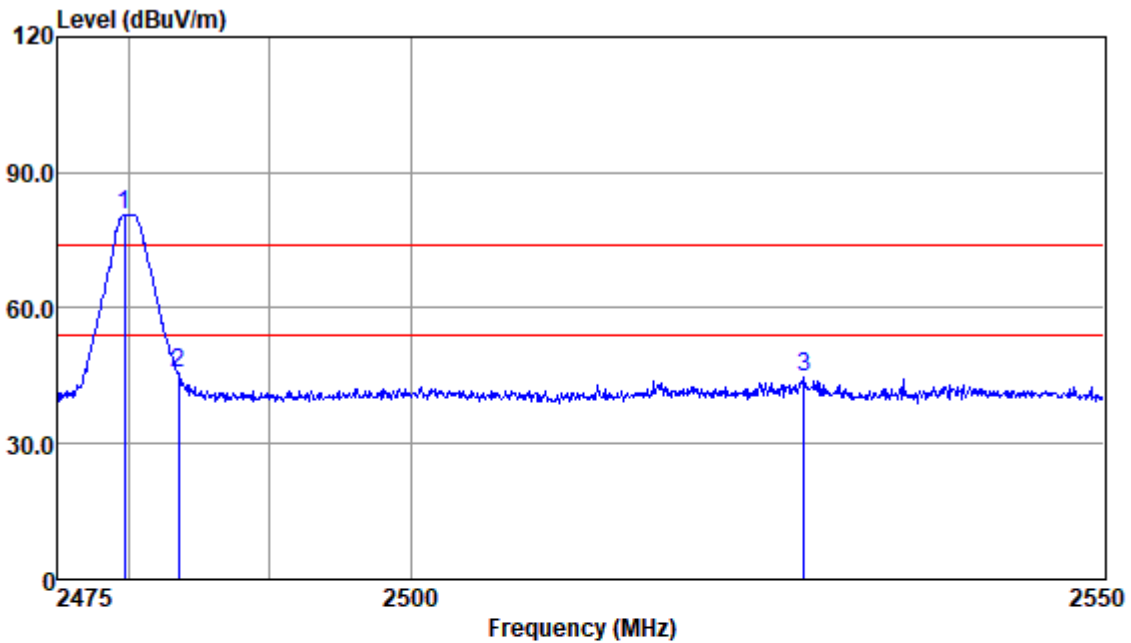
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2479.81	92.11	26.17	3.14	37.57	83.85	74.00	9.85	Peak
2483.50	56.05	26.18	3.14	37.57	47.80	74.00	-26.20	Peak
2498.53	51.81	26.20	3.15	37.60	43.56	74.00	-30.44	Peak

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



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



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.73	89.07	26.17	3.14	37.57	80.81	74.00	6.81	Peak
2483.50	54.06	26.18	3.14	37.57	45.81	74.00	-28.19	Peak
2528.25	52.89	26.29	3.16	37.62	44.72	74.00	-29.28	Peak

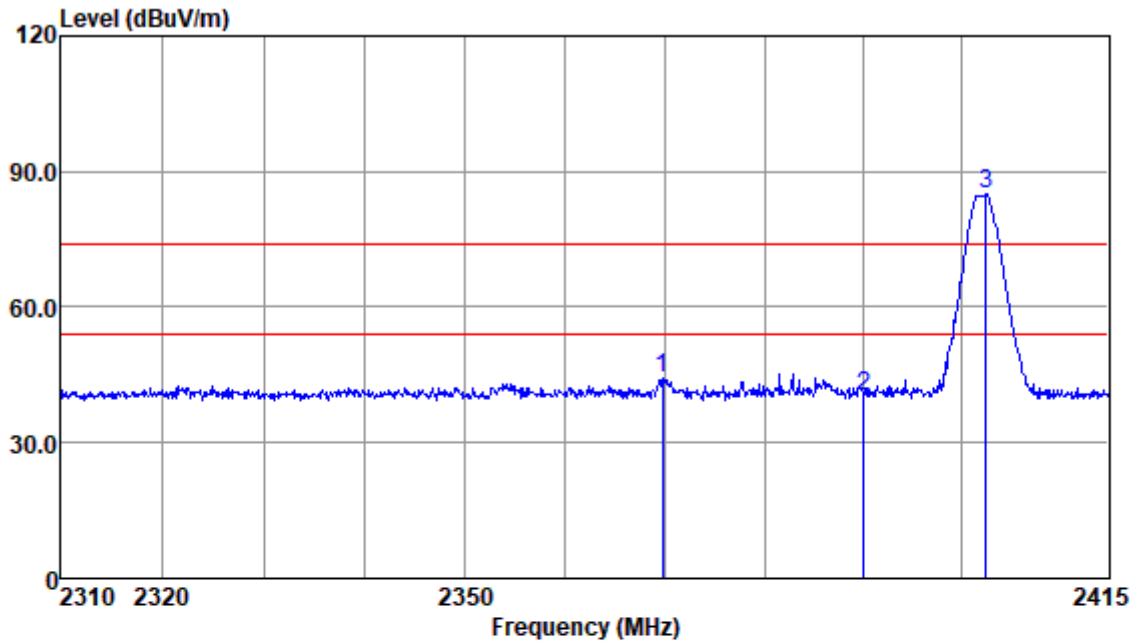
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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2M

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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2369.70	52.72	26.00	3.17	37.39	44.50	74.00	-29.50 Peak
2390.00	48.37	26.03	3.15	37.40	40.15	74.00	-33.85 Peak
2402.47	93.11	26.05	3.14	37.40	84.90	74.00	10.90 Peak

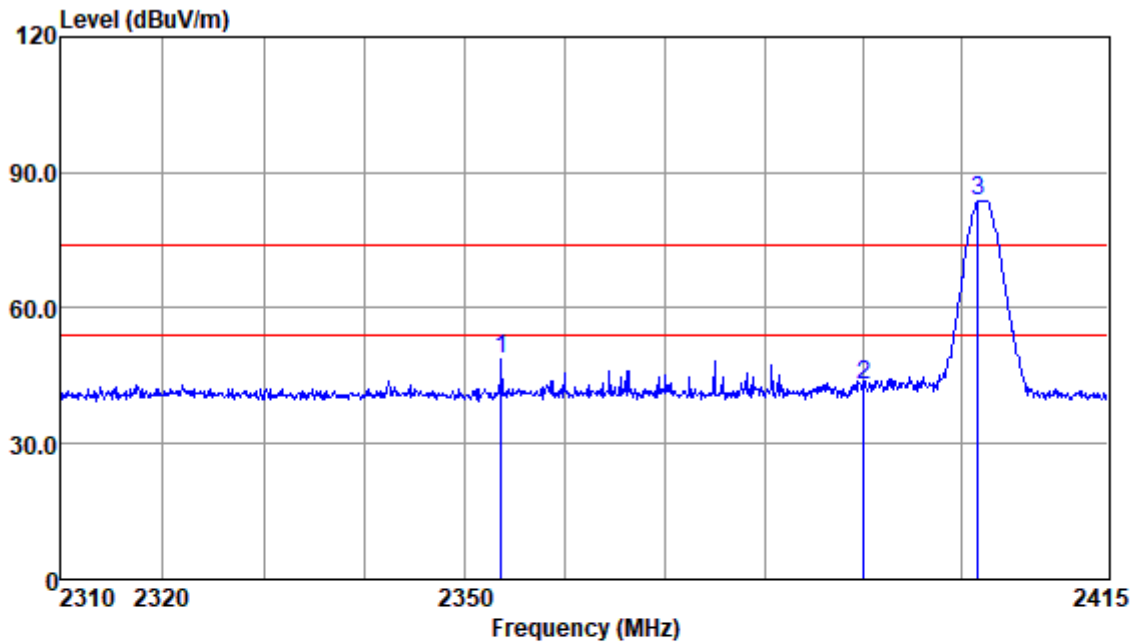
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

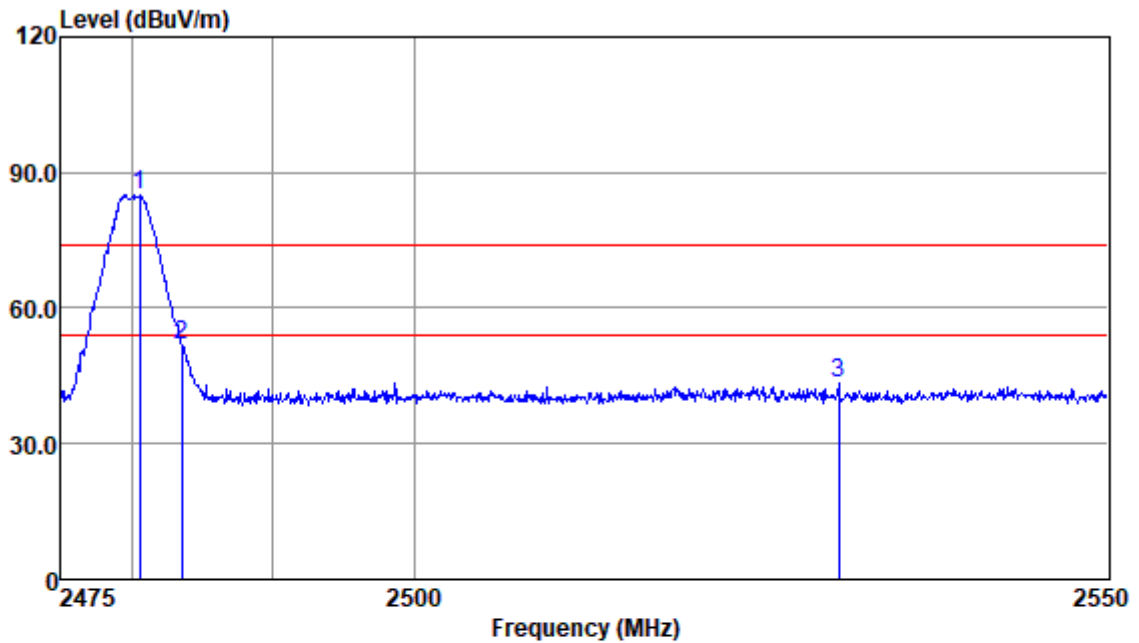
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2353.53	56.82	25.98	3.12	37.38	48.54	74.00	-25.46	Peak
2390.00	51.09	26.03	3.15	37.40	42.87	74.00	-31.13	Peak
2401.62	92.09	26.05	3.15	37.40	83.89	74.00	9.89	Peak

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



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



Antenna Polarity :HORIZONTAL

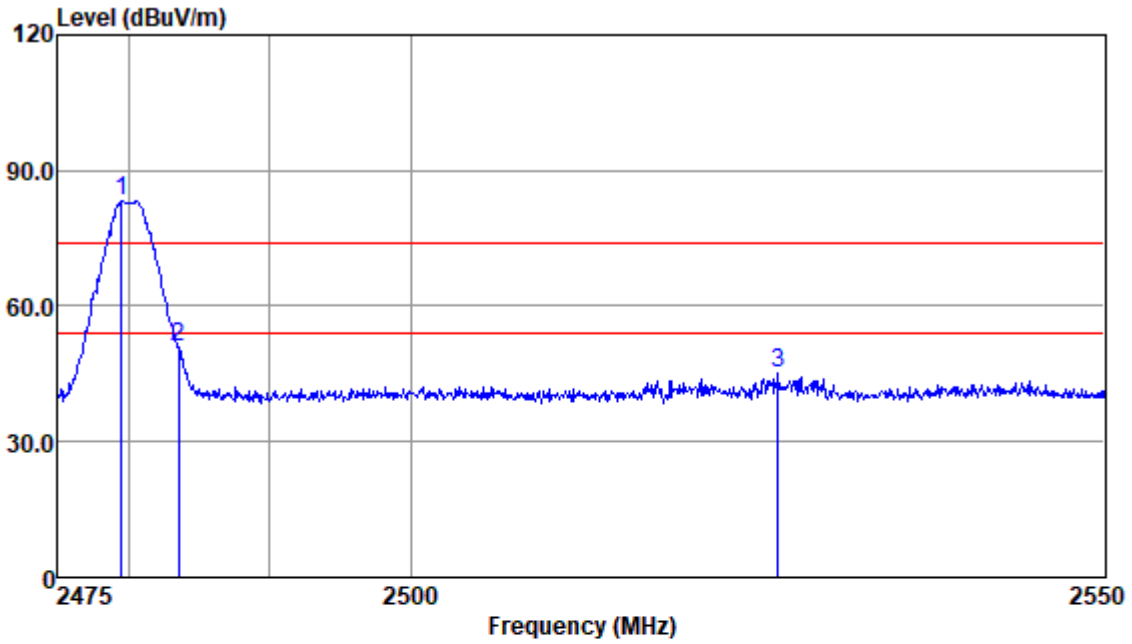
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2480.55	93.14	26.17	3.14	37.57	84.88	74.00	10.88	Peak
2483.50	59.95	26.18	3.14	37.57	51.70	74.00	-22.30	Peak
2530.44	51.61	26.29	3.16	37.62	43.44	74.00	-30.56	Peak

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



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



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2479.51	91.51	26.17	3.14	37.57	83.25	74.00	9.25	Peak
2483.50	59.05	26.18	3.14	37.57	50.80	74.00	-23.20	Peak
2526.36	53.22	26.29	3.16	37.62	45.05	74.00	-28.95	Peak

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



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7.7 Radiated Spurious Emissions

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

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

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.



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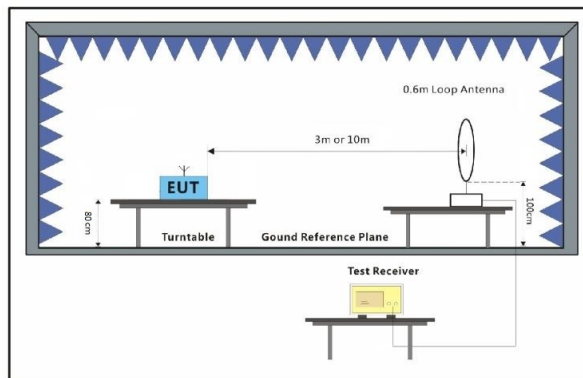
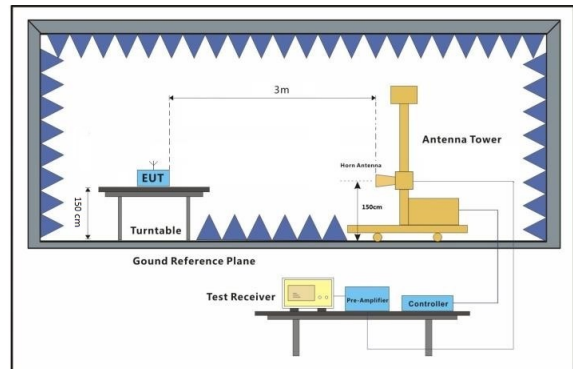
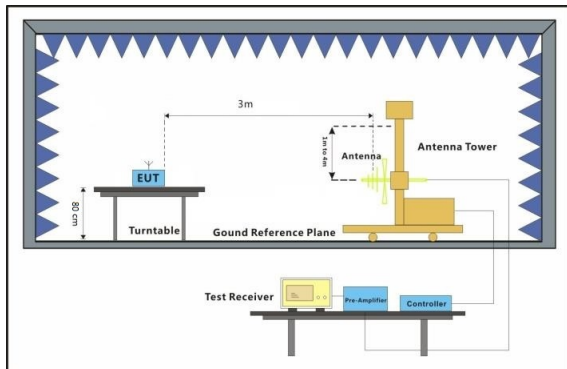
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

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

7.7.2 Test Setup Diagram



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7.7.3 Measurement Procedure and Data

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

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

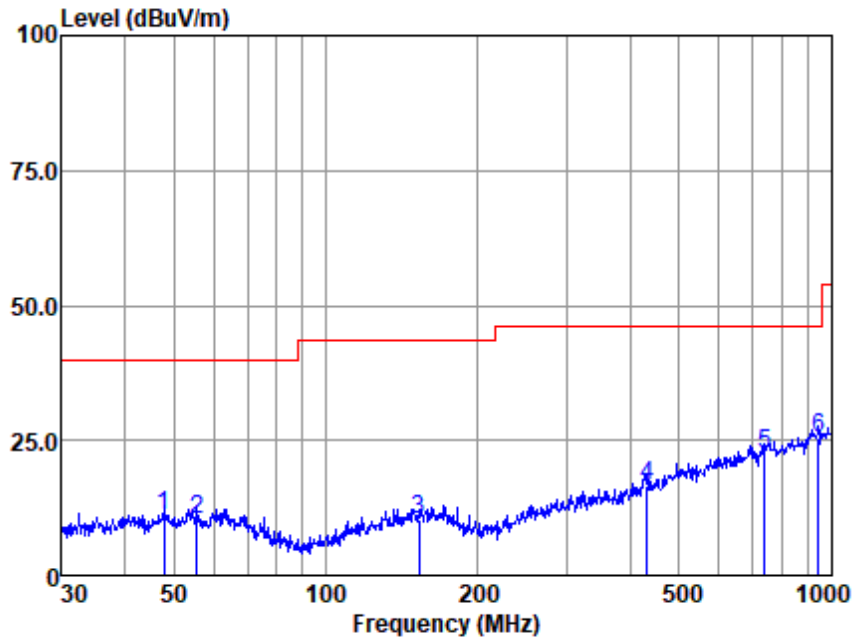
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower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



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Below 1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL
 EUT/Project :6265CR
 Test mode :a

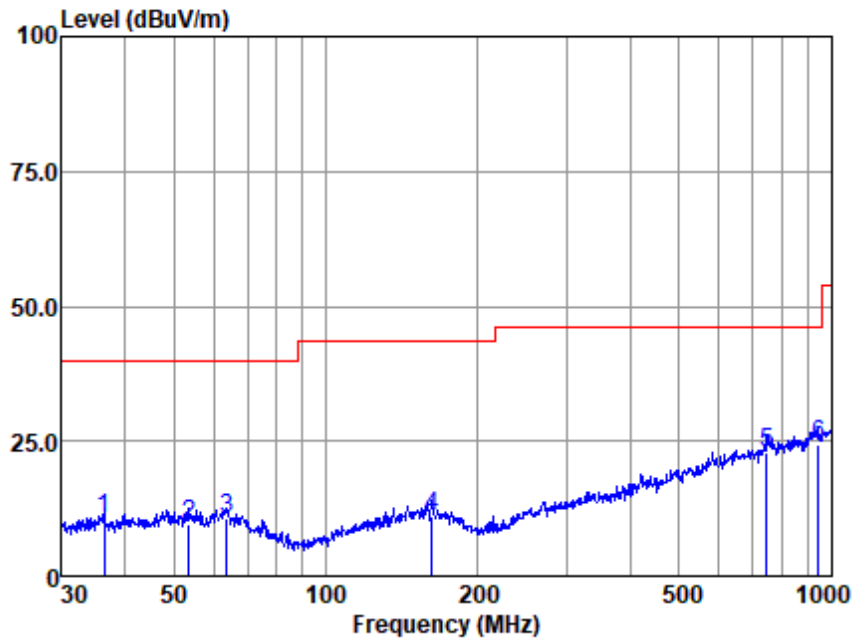
Read	Antenna	Cable	Preamp	Emission	Limit	Over			
Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
Freq									
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	47.826	28.47	13.61	0.98	32.12	10.94	40.00	-29.06	QP
2	55.609	27.88	13.35	1.07	31.82	10.48	40.00	-29.52	QP
3	152.664	26.76	12.98	1.87	31.34	10.27	43.50	-33.23	QP
4	432.546	27.33	16.49	3.25	30.49	16.58	46.00	-29.42	QP
5	737.071	27.91	21.77	4.34	31.49	22.53	46.00	-23.47	QP
6	942.131	29.32	23.92	4.92	32.57	25.59	46.00	-20.41	QP

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



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL
 EUT/Project :6265CR
 Test mode :a

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	36.381	29.00	12.63	0.83	31.90	10.56	40.00	-29.44 QP
2	53.505	26.80	13.48	1.04	31.89	9.43	40.00	-30.57 QP
3	63.536	28.44	12.59	1.15	31.49	10.69	40.00	-29.31 QP
4	162.041	27.19	13.11	1.93	31.23	11.00	43.50	-32.50 QP
5	744.866	27.86	21.97	4.34	31.13	23.04	46.00	-22.96 QP
6	945.440	28.03	23.96	4.92	32.65	24.26	46.00	-21.74 QP

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

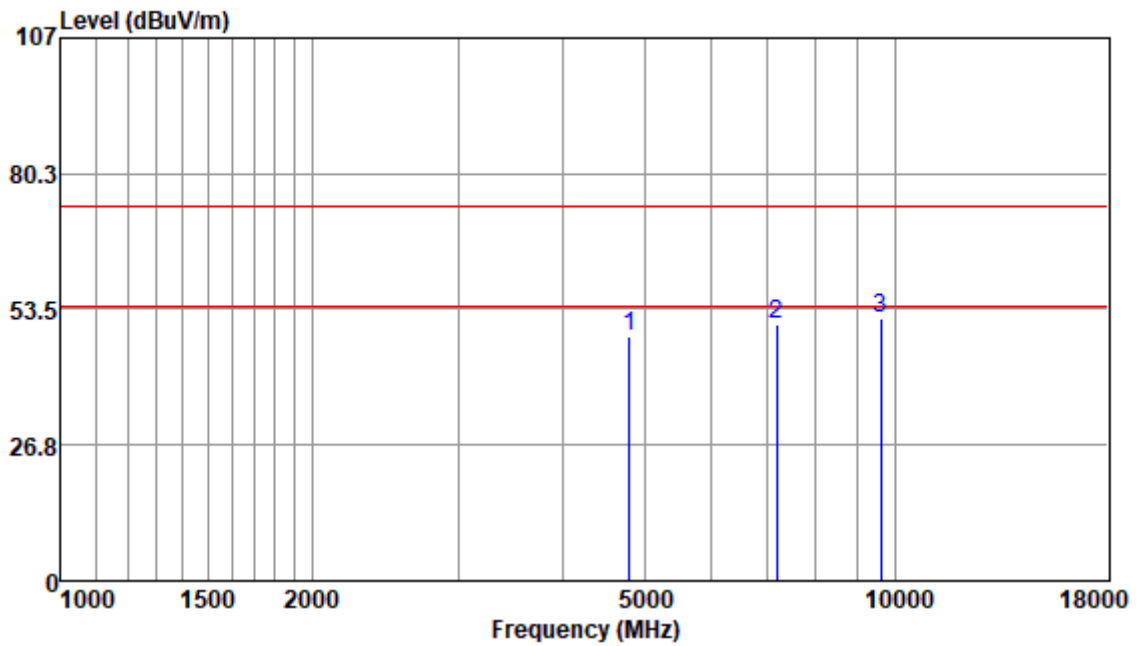


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Above 1GHz:

1M

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



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	48.83	33.72	4.46	38.71	48.30	74.00	-25.70	Peak
7206.00	45.78	36.28	5.72	37.18	50.60	74.00	-23.40	Peak
9608.00	41.65	37.70	6.53	34.18	51.70	74.00	-22.30	Peak

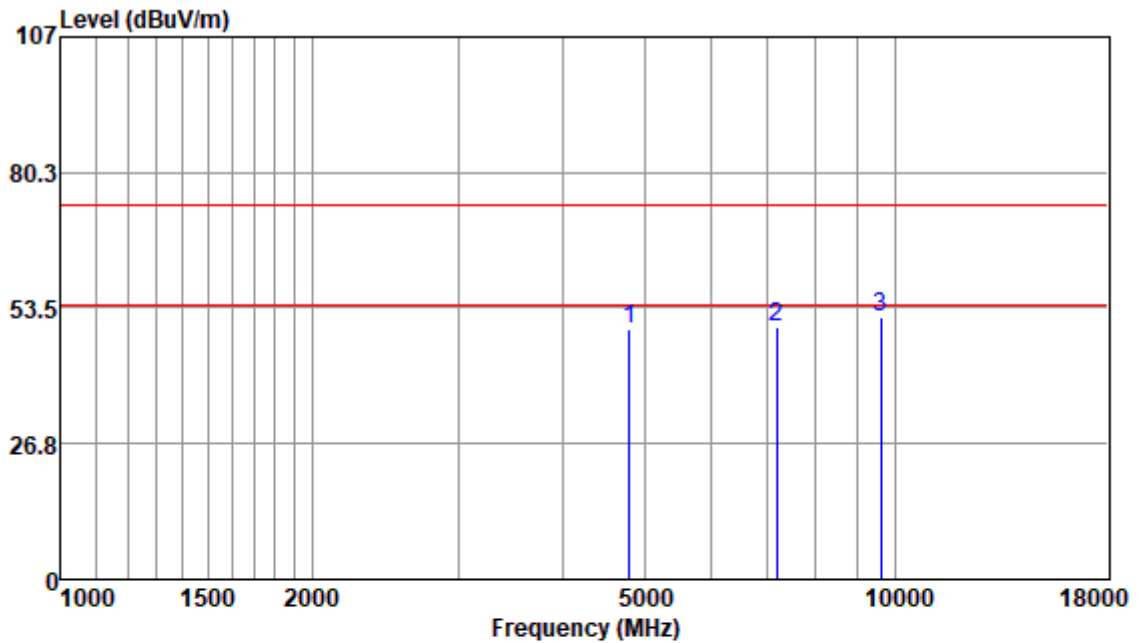
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

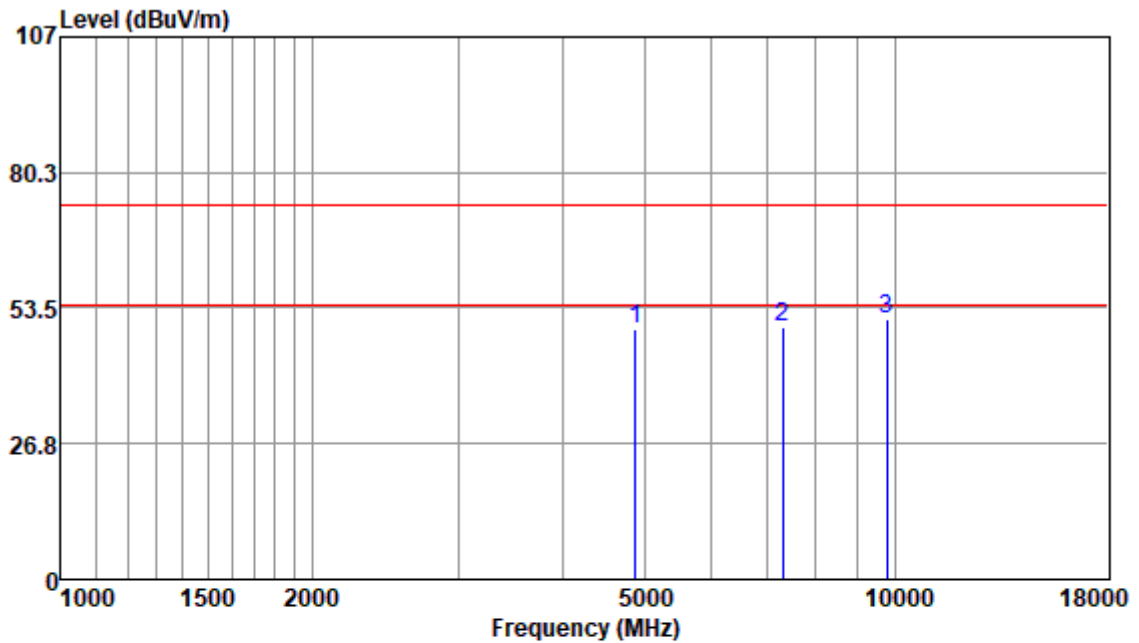
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4804.00	49.83	33.72	4.46	38.71	49.30	74.00	-24.70	Peak
7206.00	44.88	36.28	5.72	37.18	49.70	74.00	-24.30	Peak
9608.00	41.75	37.70	6.53	34.18	51.80	74.00	-22.20	Peak

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



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



Antenna Polarity :HORIZONTAL

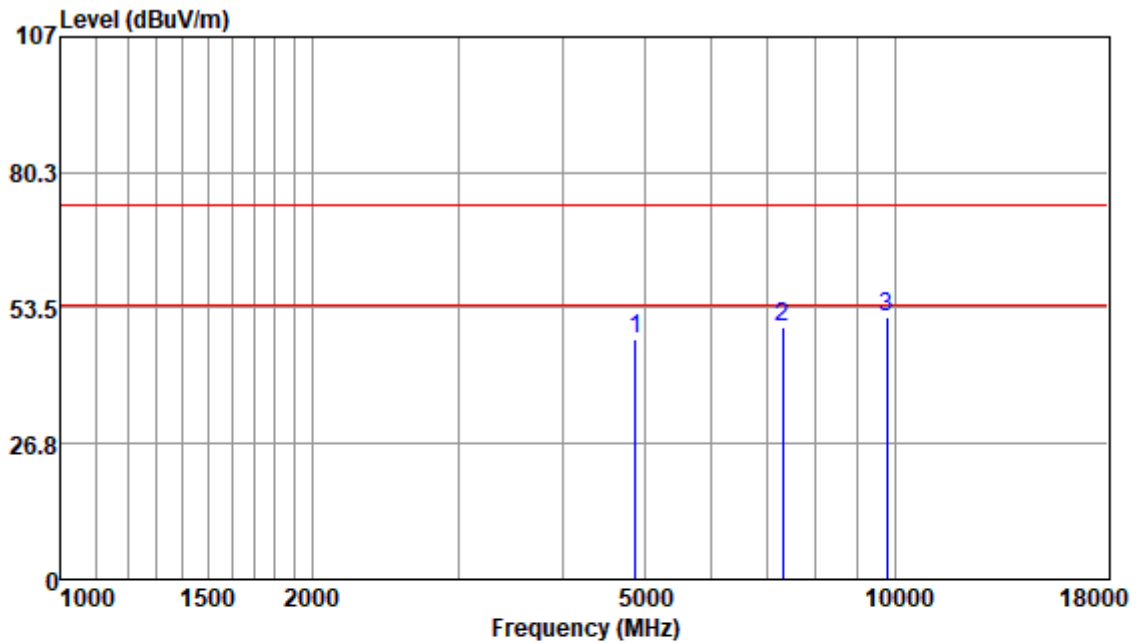
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
4880.00	49.68	33.93	4.47	38.78	49.30	74.00	-24.70	Peak
7320.00	44.58	36.47	5.85	37.10	49.80	74.00	-24.20	Peak
9760.00	41.47	37.68	6.50	34.15	51.50	74.00	-22.50	Peak

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



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



Antenna Polarity :VERTICAL

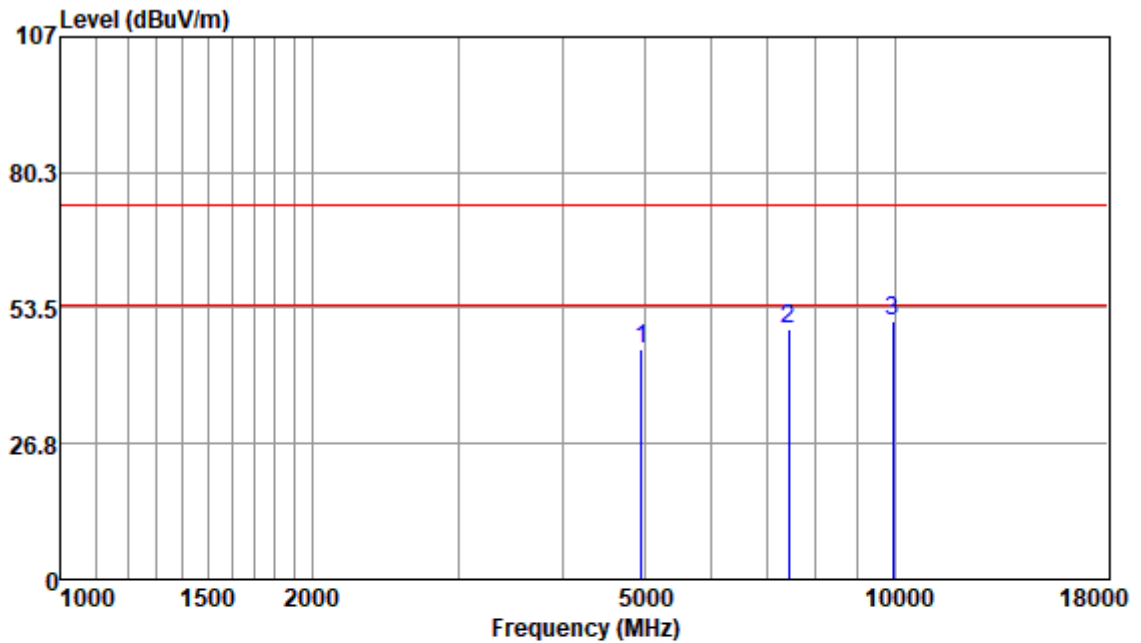
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4880.00	47.58	33.93	4.47	38.78	47.20	74.00	-26.80	Peak
7320.00	44.58	36.47	5.85	37.10	49.80	74.00	-24.20	Peak
9760.00	41.57	37.68	6.50	34.15	51.60	74.00	-22.40	Peak

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



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



Antenna Polarity :HORIZONTAL

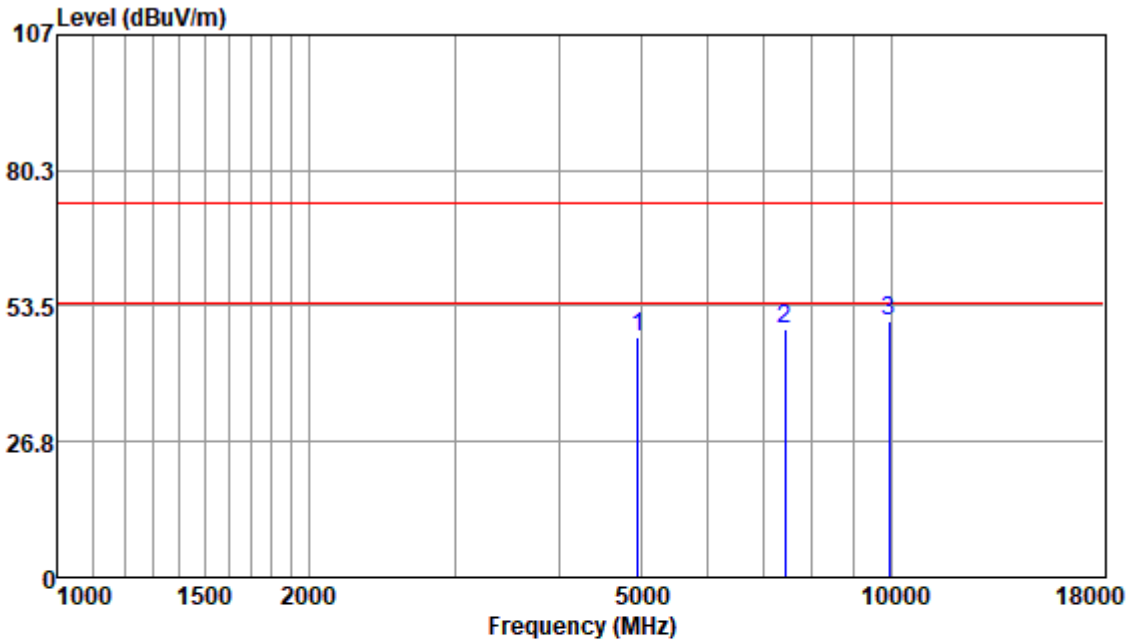
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	45.91	33.98	4.48	38.87	45.50	74.00	-28.50	Peak
7440.00	43.96	36.40	5.97	37.03	49.30	74.00	-24.70	Peak
9920.00	40.63	37.81	6.47	34.11	50.80	74.00	-23.20	Peak

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



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



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	47.71	33.98	4.48	38.87	47.30	74.00	-26.70	Peak
7440.00	43.46	36.40	5.97	37.03	48.80	74.00	-25.20	Peak
9920.00	40.53	37.81	6.47	34.11	50.70	74.00	-23.30	Peak

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

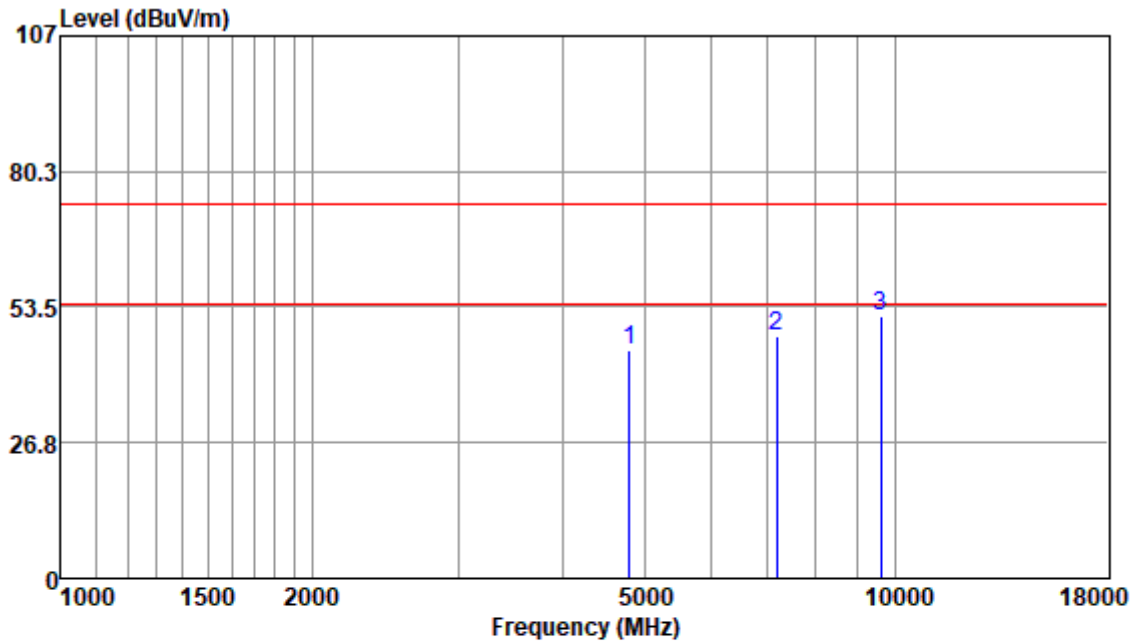


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2M

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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
4804.00	45.73	33.72	4.46	38.71	45.20	74.00	-28.80 Peak
7206.00	42.98	36.28	5.72	37.18	47.80	74.00	-26.20 Peak
9608.00	41.65	37.70	6.53	34.18	51.70	74.00	-22.30 Peak

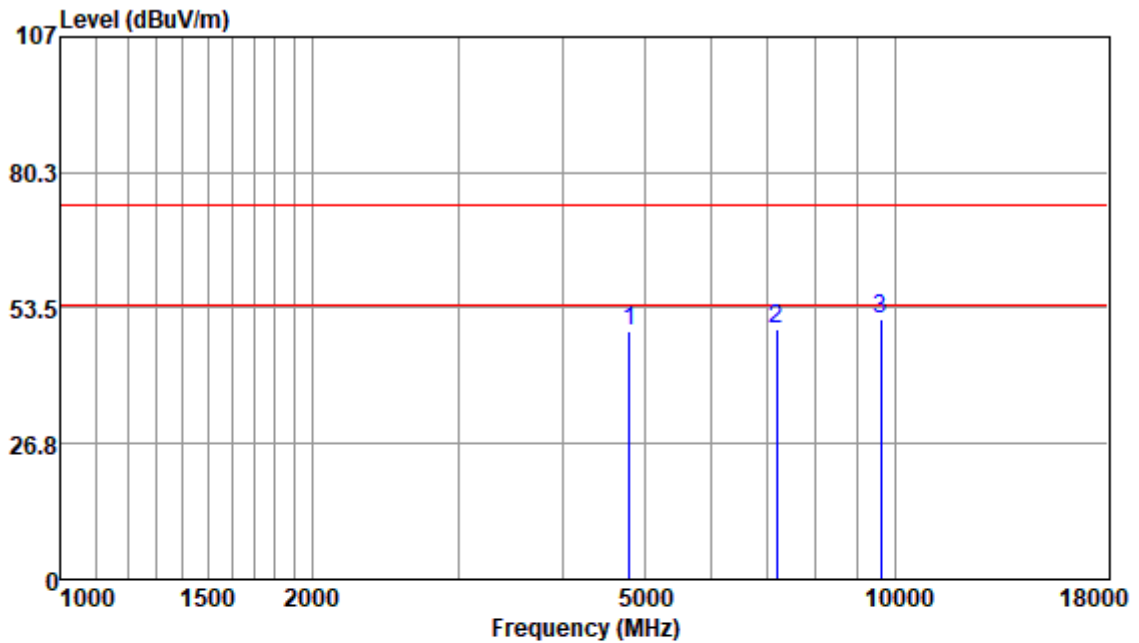
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

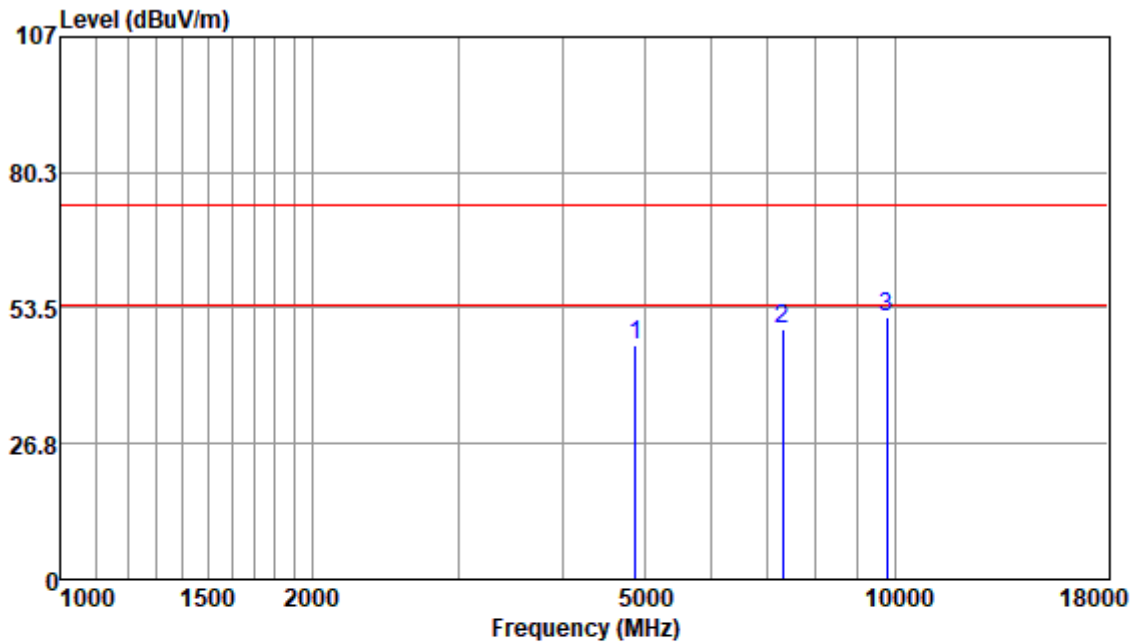
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
4804.00	49.43	33.72	4.46	38.71	48.90	74.00	-25.10	Peak
7206.00	44.38	36.28	5.72	37.18	49.20	74.00	-24.80	Peak
9608.00	41.38	37.70	6.53	34.18	51.43	74.00	-22.57	Peak

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



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



Antenna Polarity :HORIZONTAL

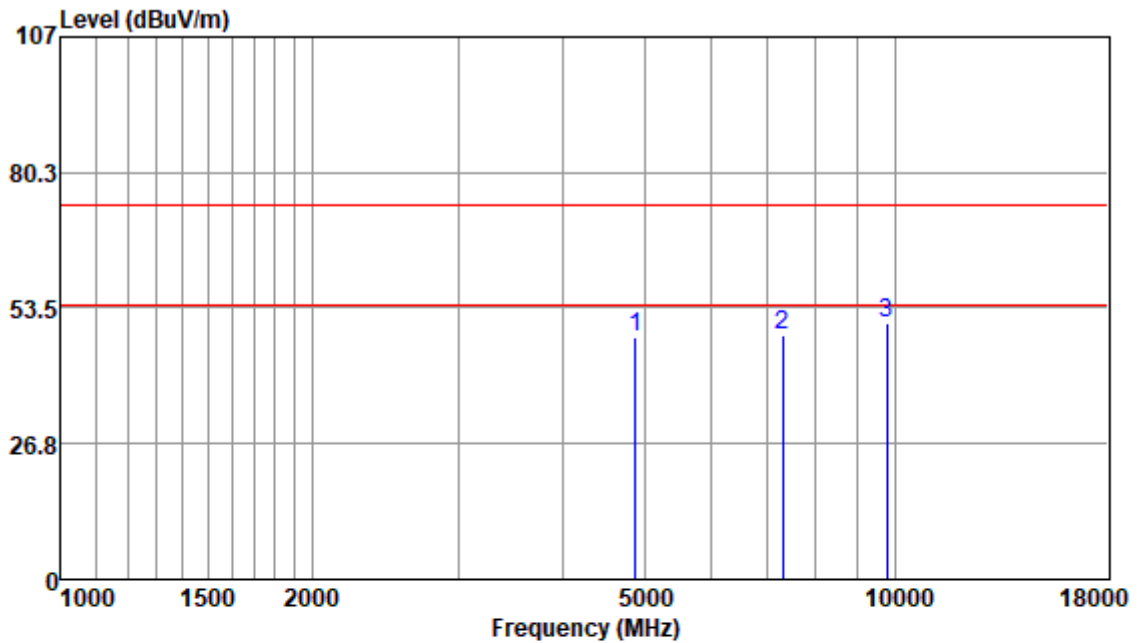
Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB		
4880.00	46.58	33.93	4.47	38.78	46.20	74.00	-27.80	Peak	
7320.00	43.98	36.47	5.85	37.10	49.20	74.00	-24.80	Peak	
9760.00	41.77	37.68	6.50	34.15	51.80	74.00	-22.20	Peak	

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



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



Antenna Polarity :VERTICAL

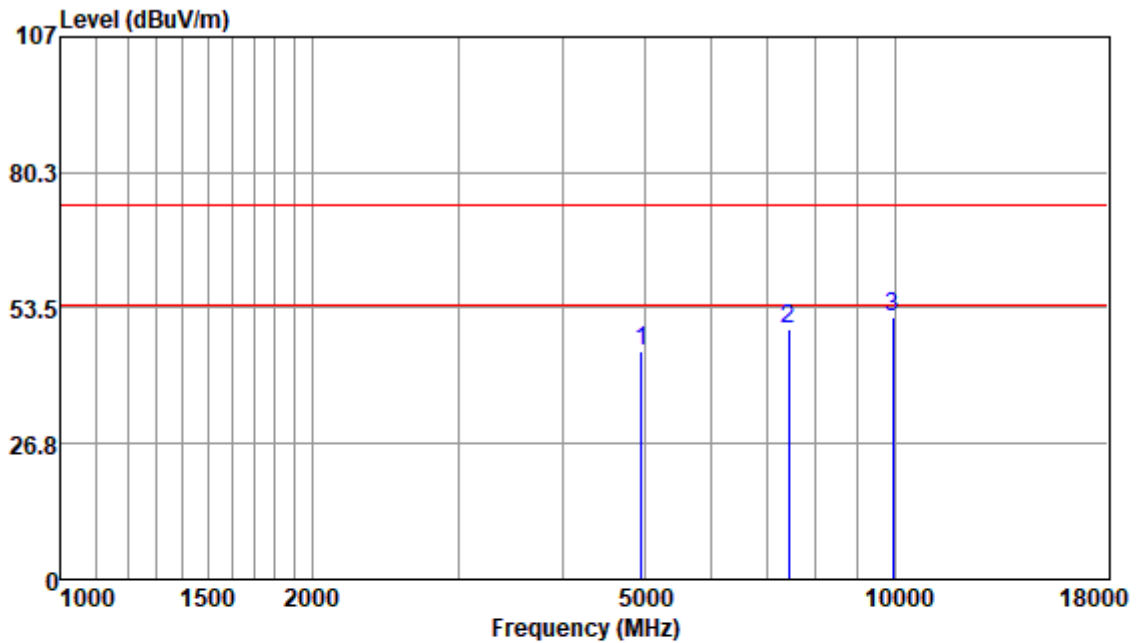
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
4880.00	48.08	33.93	4.47	38.78	47.70	74.00	-26.30	Peak	
7320.00	43.08	36.47	5.85	37.10	48.30	74.00	-25.70	Peak	
9760.00	40.57	37.68	6.50	34.15	50.60	74.00	-23.40	Peak	

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



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



Antenna Polarity :HORIZONTAL

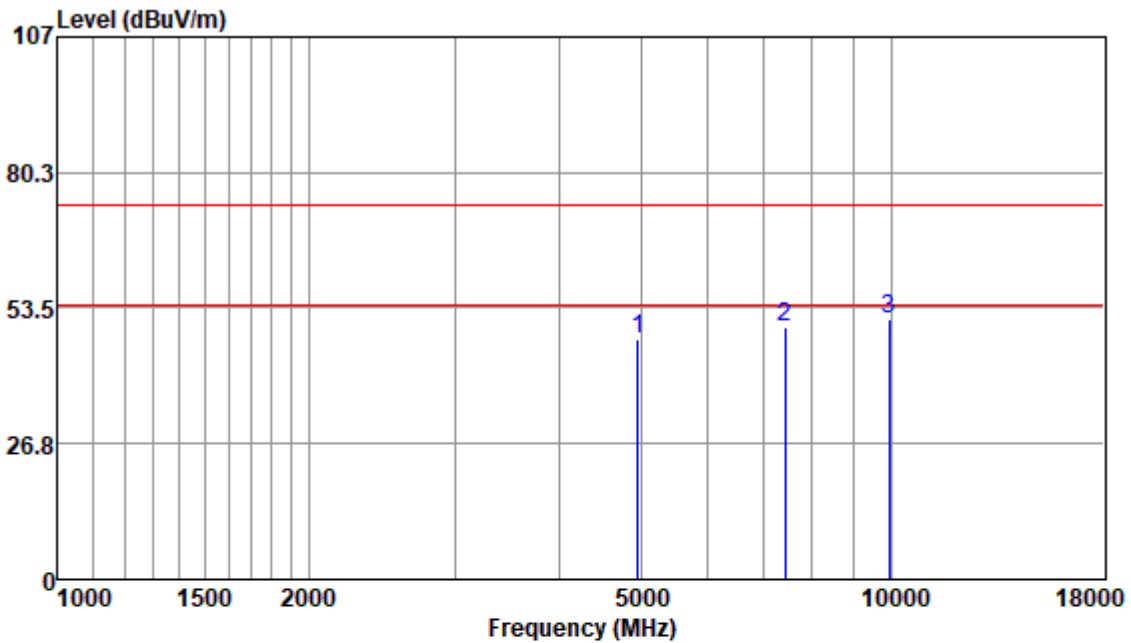
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	45.61	33.98	4.48	38.87	45.20	74.00	-28.80	Peak
7440.00	43.96	36.40	5.97	37.03	49.30	74.00	-24.70	Peak
9920.00	41.63	37.81	6.47	34.11	51.80	74.00	-22.20	Peak

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



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



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4960.00	47.61	33.98	4.48	38.87	47.20	74.00	-26.80	Peak
7440.00	44.46	36.40	5.97	37.03	49.80	74.00	-24.20	Peak
9920.00	41.23	37.81	6.47	34.11	51.40	74.00	-22.60	Peak

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



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

Appendix A for SHEM210600626601

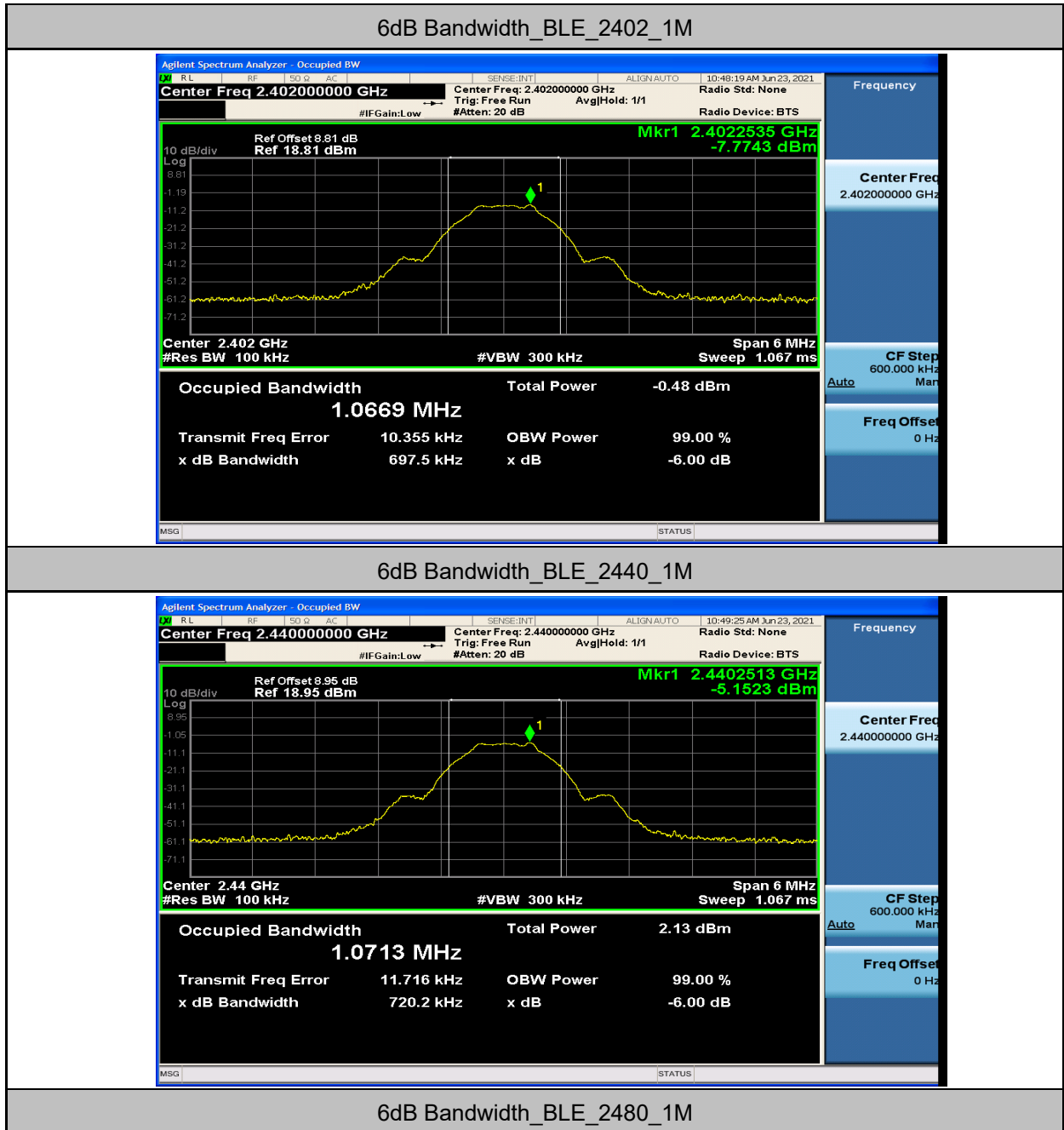
1.6dB Bandwidth

Test Mode	Test Channel	EBW[MHz]		Limit	Verdict
		1M	2M		
BLE	2402	0.70	1.38	0.5	PASS
BLE	2440	0.72	1.37	0.5	PASS
BLE	2480	0.71	1.36	0.5	PASS



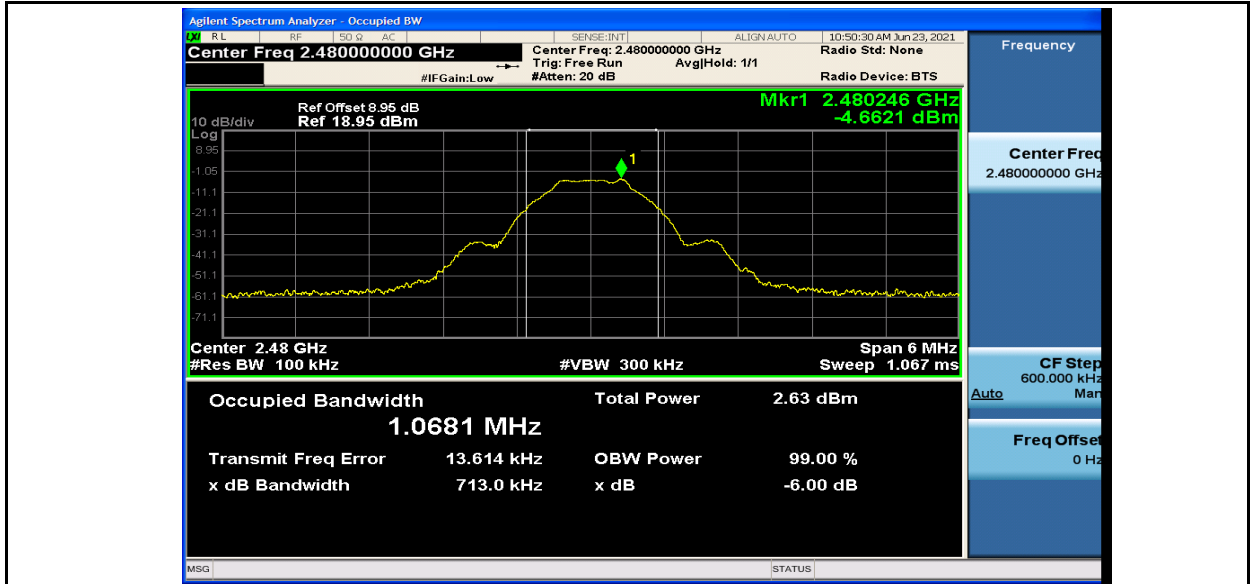
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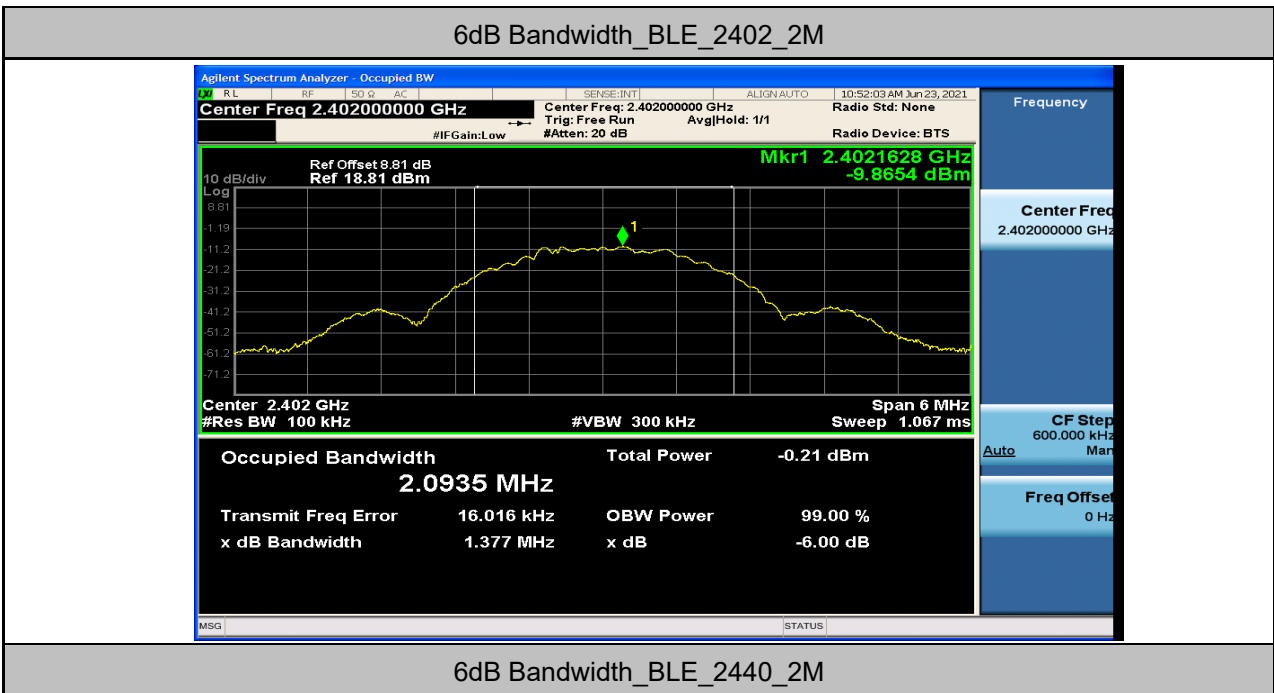


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6dB Bandwidth_BLE_2402_2M

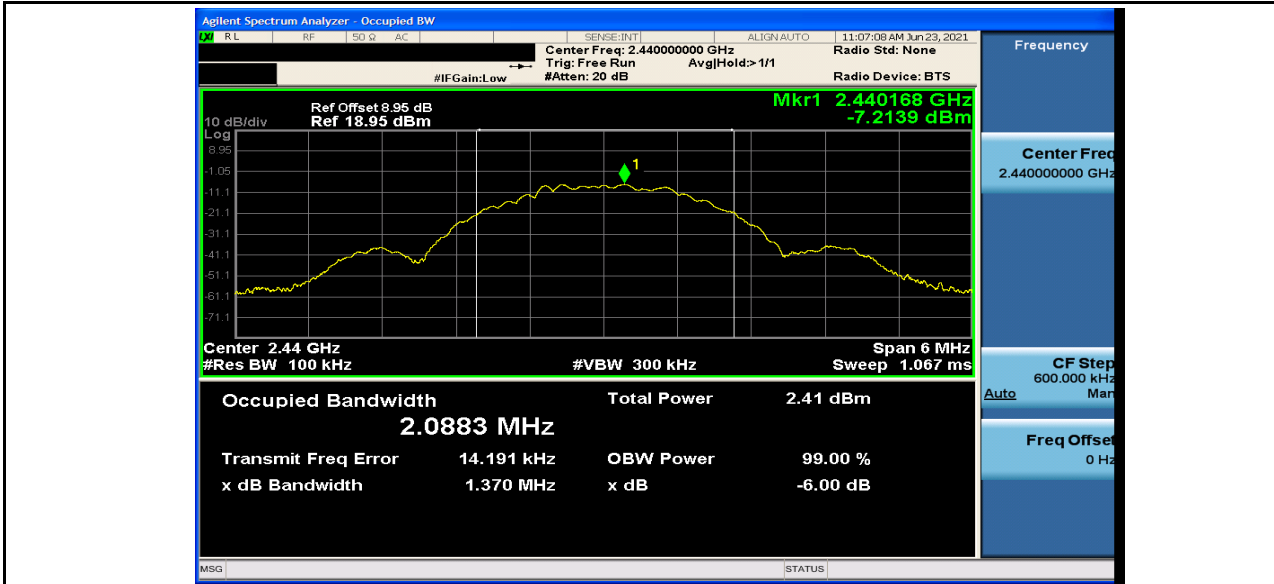


6dB Bandwidth_BLE_2440_2M

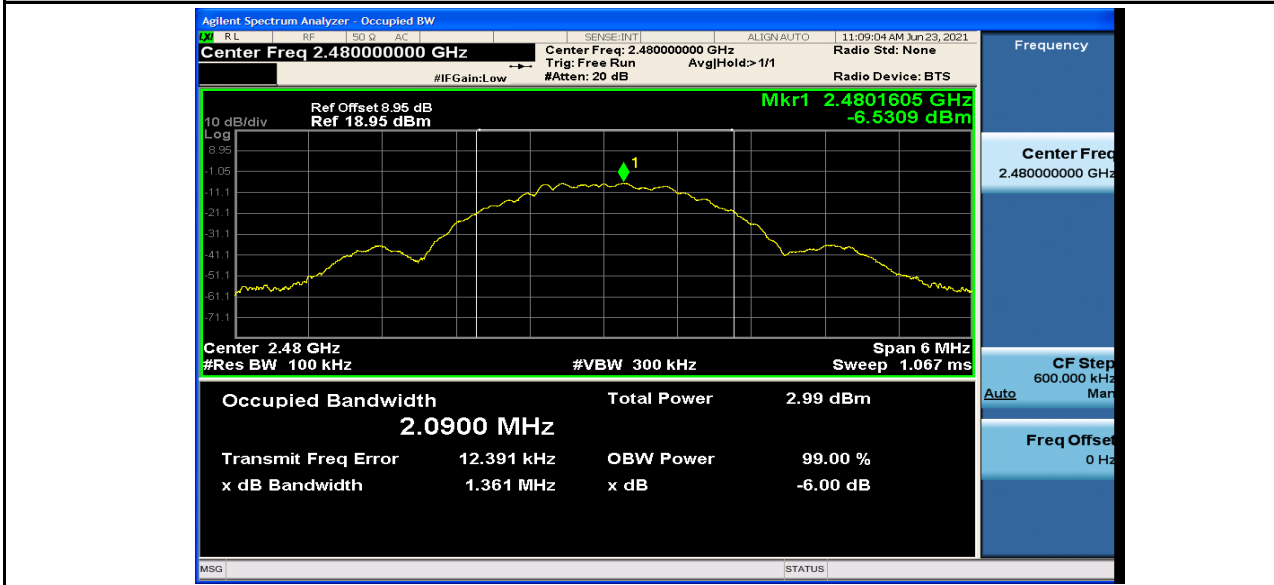


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6dB Bandwidth_BLE_2480_2M



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2.Occupied Bandwidth

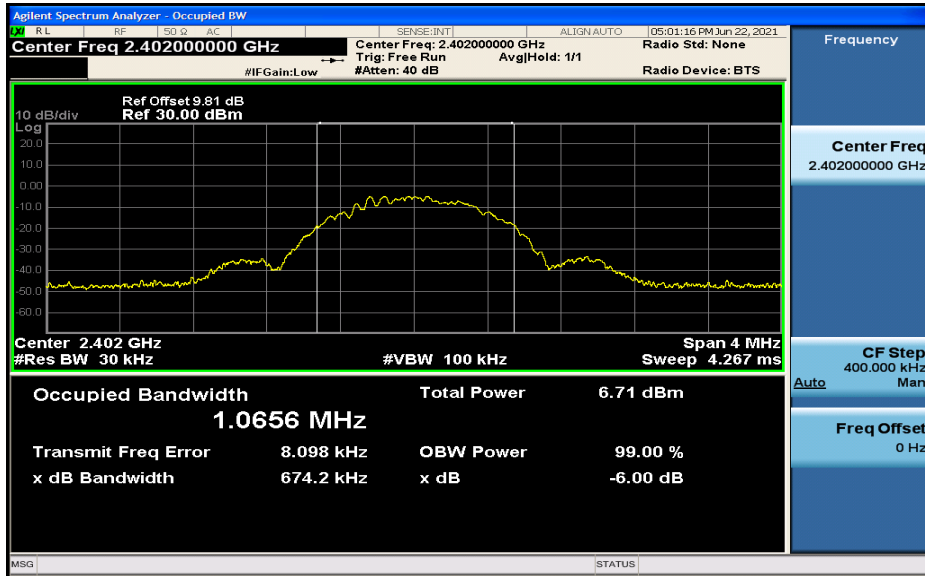
Test Mode	Test Channel	OBW[MHz]		Limit[MHz]	Verdict
		1M	2M		
BLE	2402	1.07	2.13	---	PASS
BLE	2440	1.07	2.12	---	PASS
BLE	2480	1.07	2.14	---	PASS



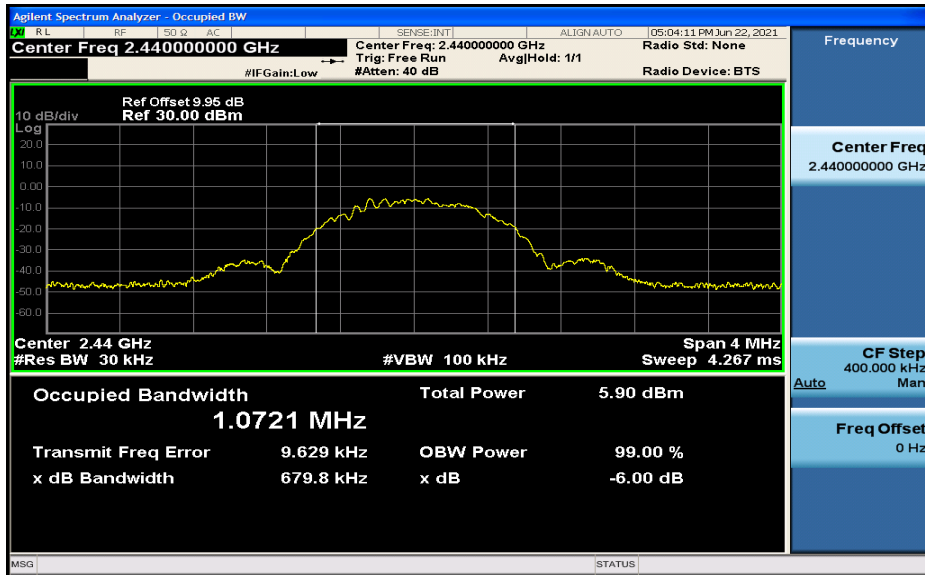
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Occupied Bandwidth_BLE_2402_1M



Occupied Bandwidth_BLE_2440_1M

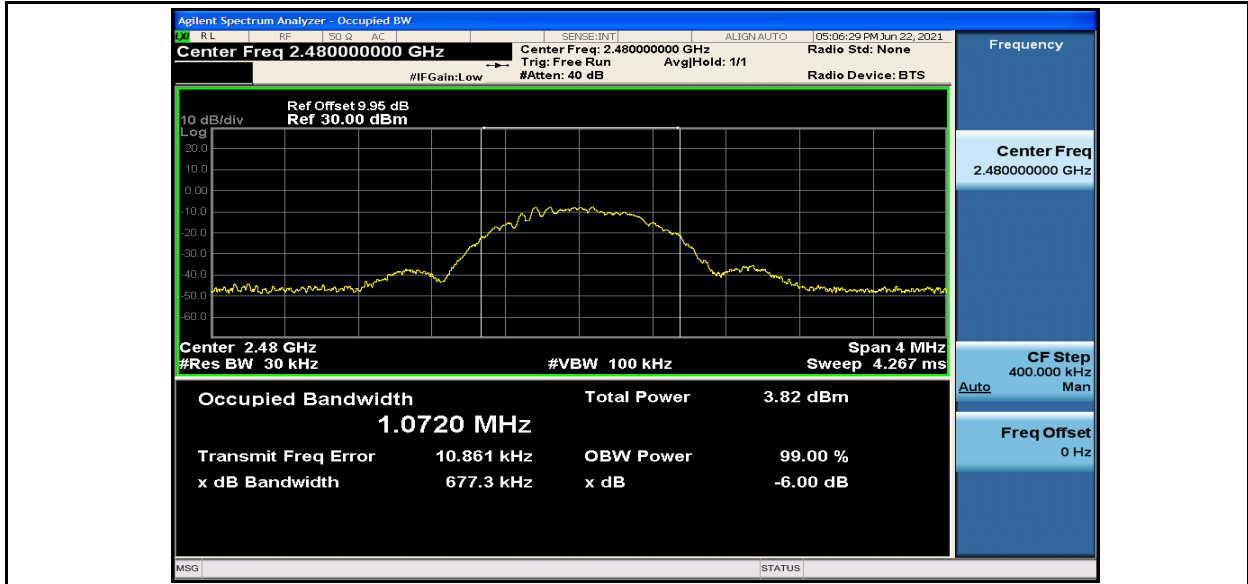


Occupied Bandwidth_BLE_2480_1M

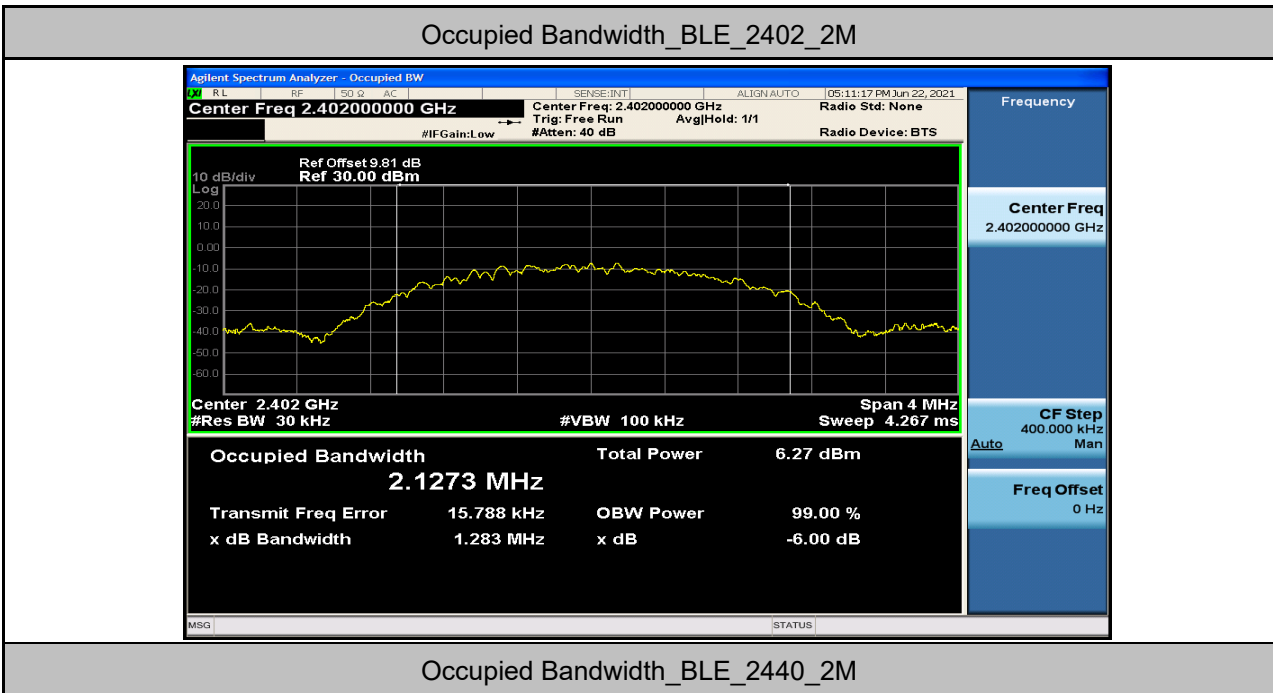


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Occupied Bandwidth_BLE_2402_2M

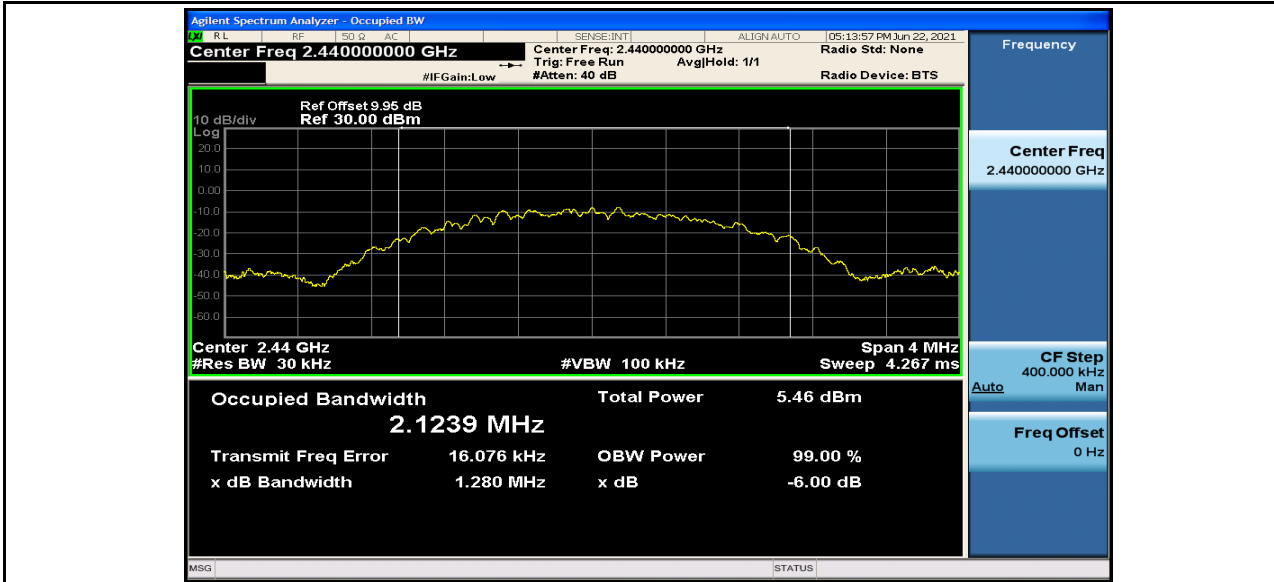


Occupied Bandwidth_BLE_2440_2M

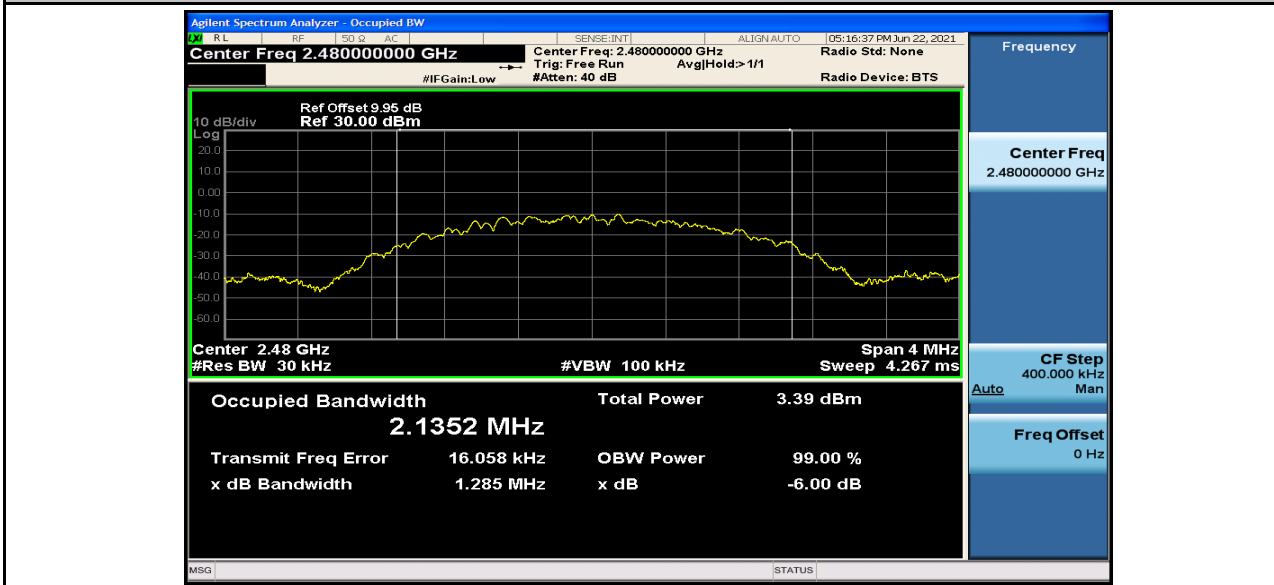


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Occupied Bandwidth_BLE_2480_2M



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3.Maximum peak conducted output power

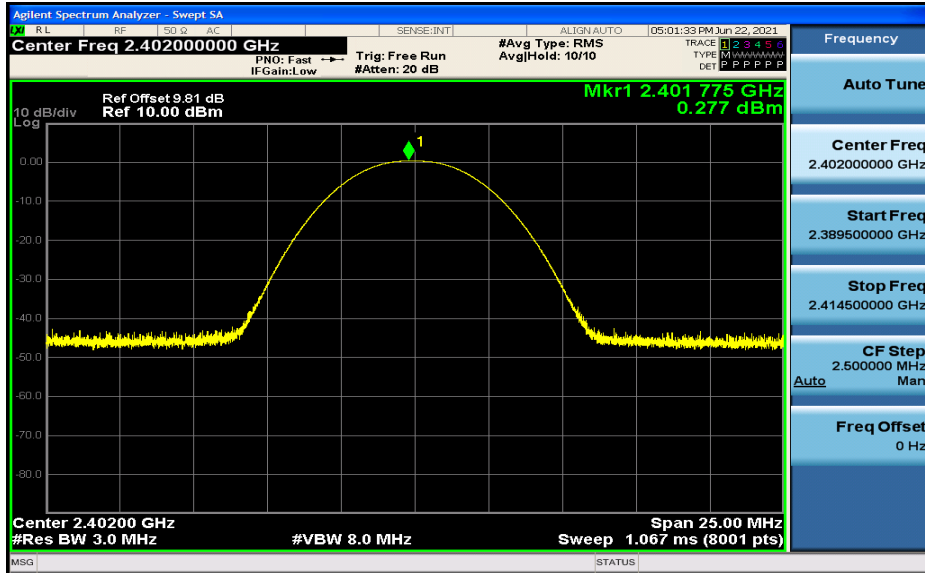
Test Mode	Test Channel	Power[dBm]		Limit[dBm]	Verdict
		1M	2M		
BLE	2402	0.28	0.32	30	PASS
BLE	2440	-0.47	-0.46	30	PASS
BLE	2480	-2.61	-2.56	30	PASS



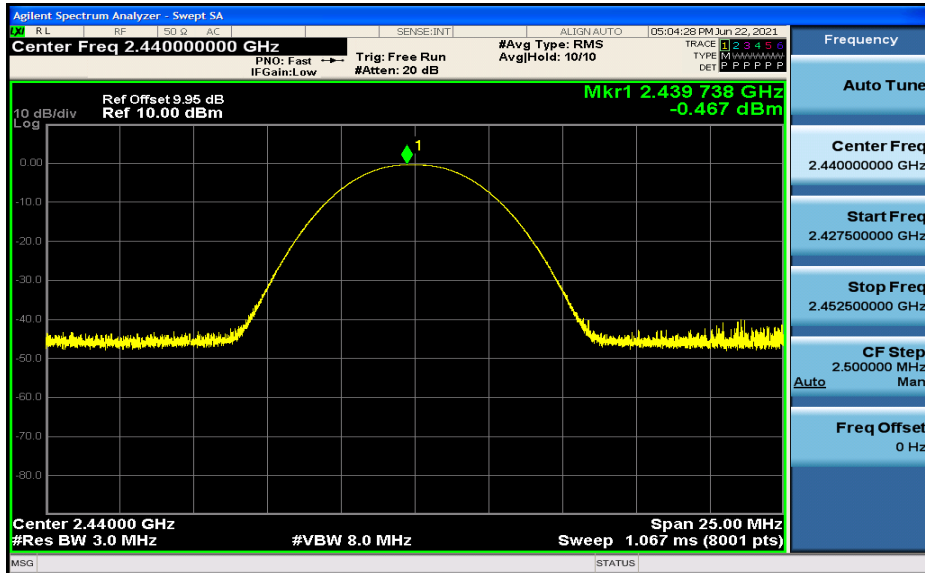
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Maximum peak conducted output power_BLE_2402_1M



Maximum peak conducted output power_BLE_2440_1M

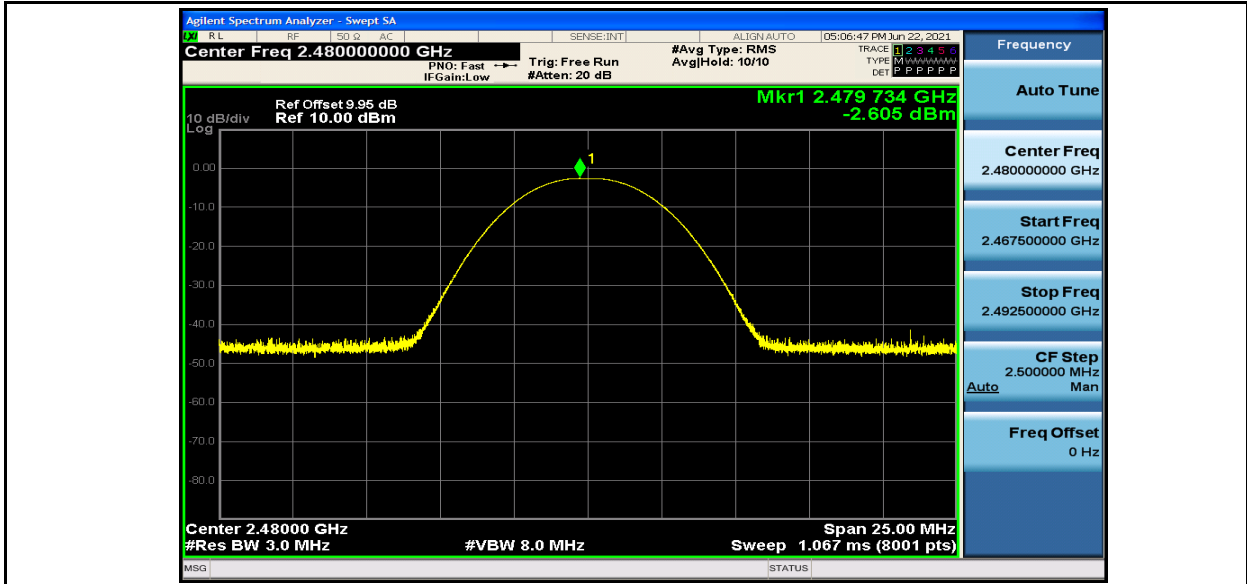


Maximum peak conducted output power_BLE_2480_1M

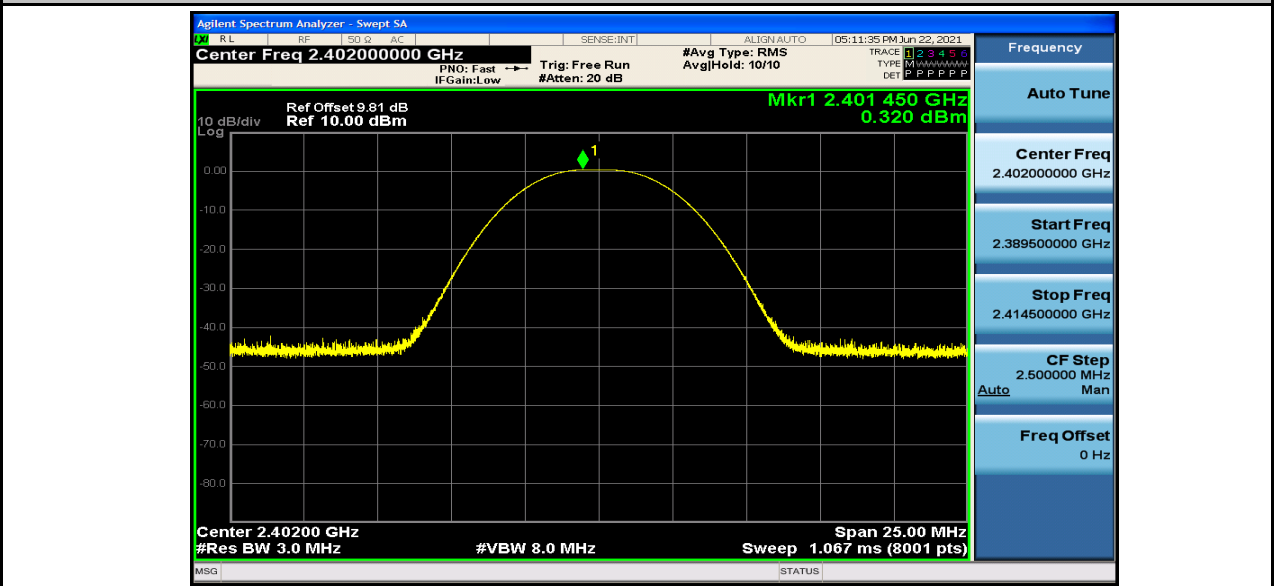


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Maximum peak conducted output power_BLE_2402_2M

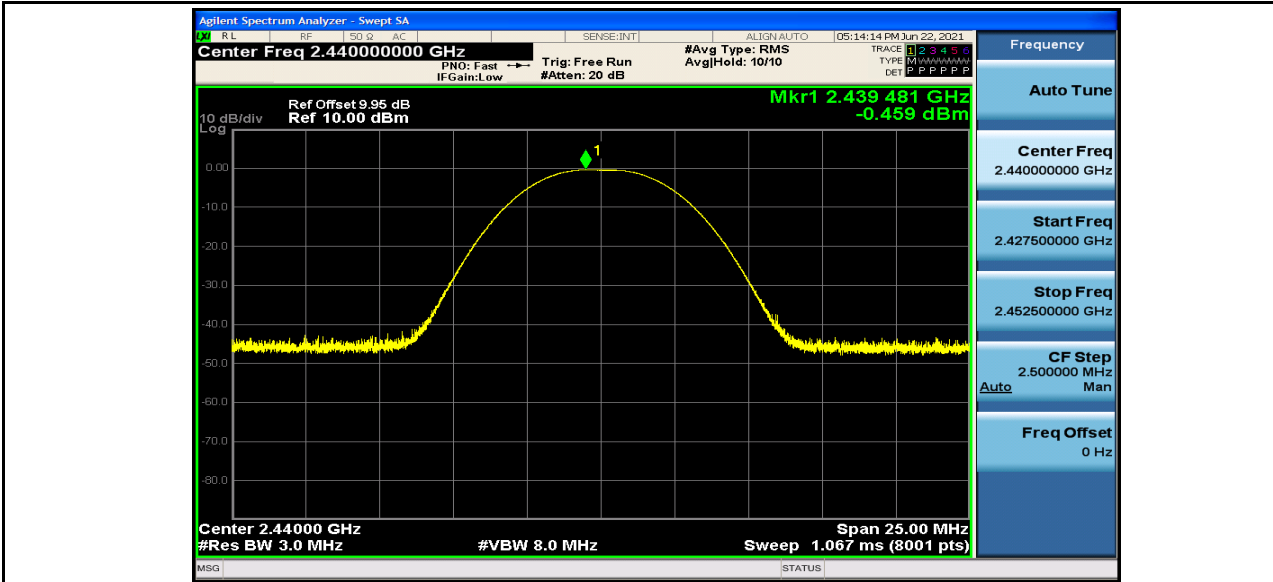


Maximum peak conducted output power_BLE_2440_2M

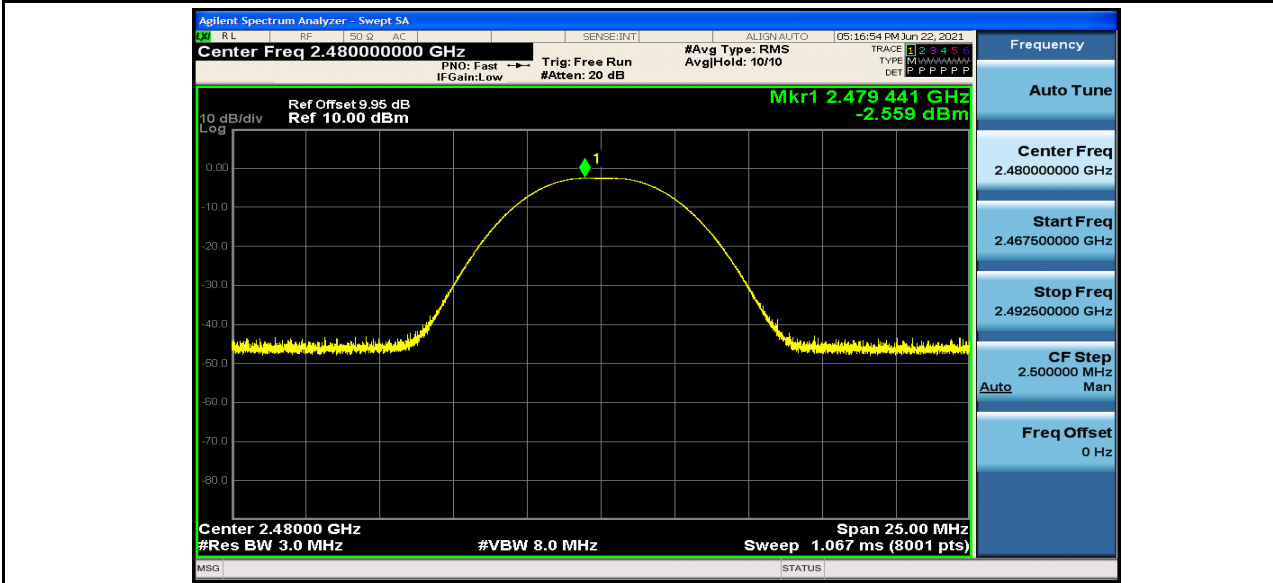


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Maximum peak conducted output power_BLE_2480_2M



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4. Maximum Peak power spectral density

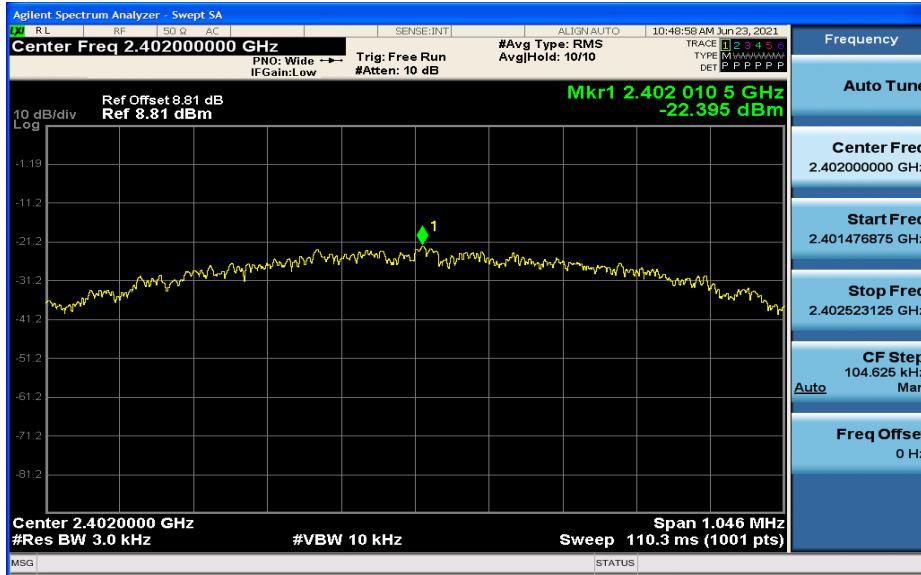
Test Mode	Test Channel	PSD[dBm/3kHz]		Limit[dBm/3kHz]	Verdict
		1M	2M		
BLE	2402	-22.40	-26.85	8.00	PASS
BLE	2440	-20.06	-23.93	8.00	PASS
BLE	2480	-18.95	-23.27	8.00	PASS



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Maximum Peak power spectral density_BLE_2402_1M



Maximum Peak power spectral density_BLE_2440_1M



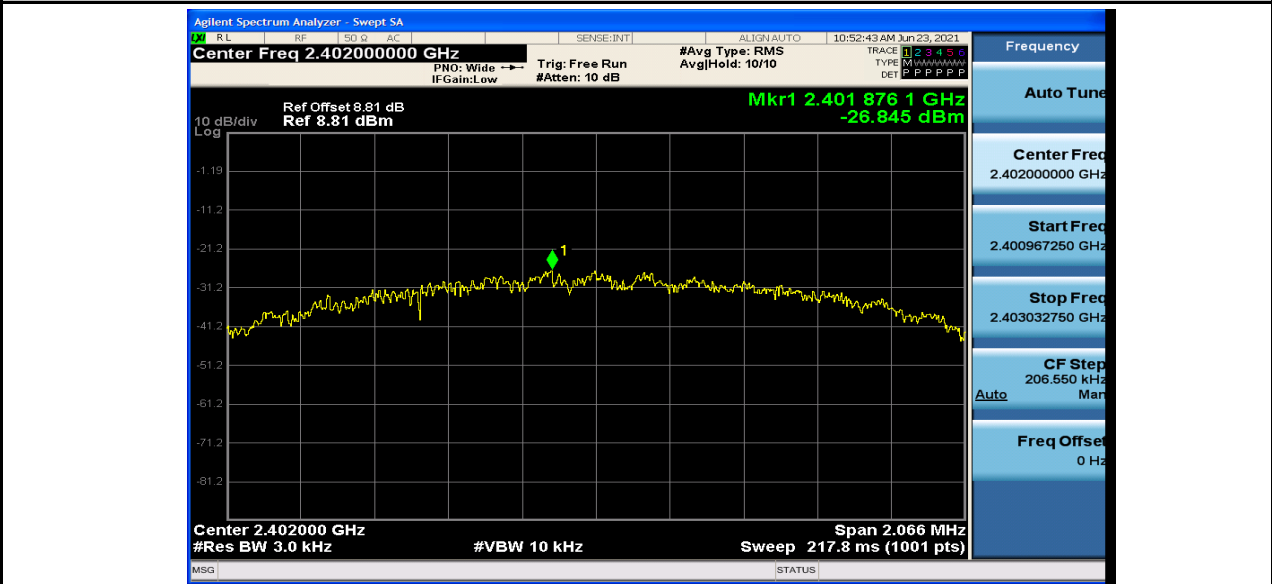
Maximum Peak power spectral density_BLE_2480_1M



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Maximum Peak power spectral density_BLE_2402_2M



Maximum Peak power spectral density_BLE_2440_2M



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Maximum Peak power spectral density_BLE_2480_2M



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5. Band-edge for RF Conducted Emissions

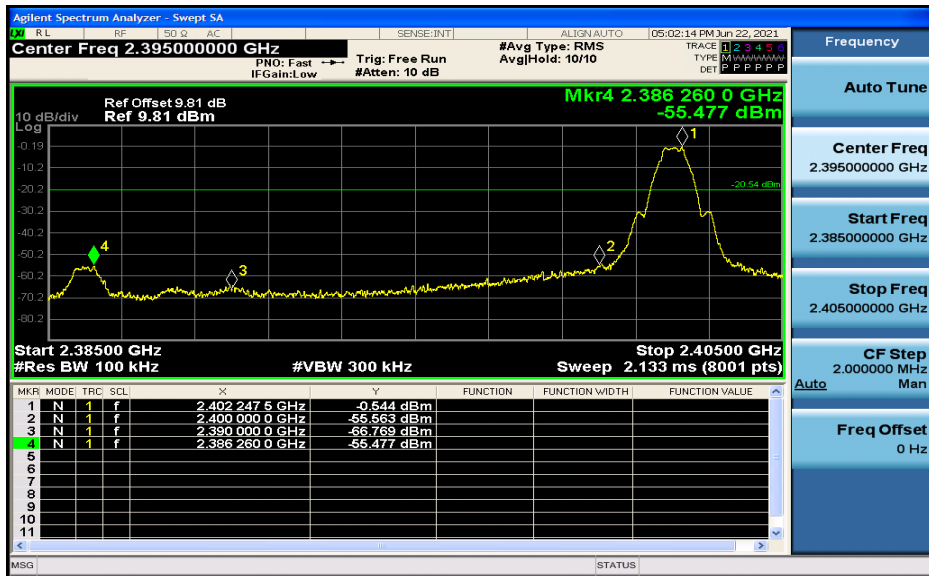
Test Mode	Test Channel	Carrier Power[dBm]		Max. Spurious Level [dBm]		Limit [dBm]		Verdict
		1M	2M	1M	2M	1M	2M	
BLE	2402	-0.54	-2.41	-55.48	-35.05	-20.54	-22.41	PASS
BLE	2480	-3.85	-5.41	-59.40	-59.25	-23.85	-25.41	PASS



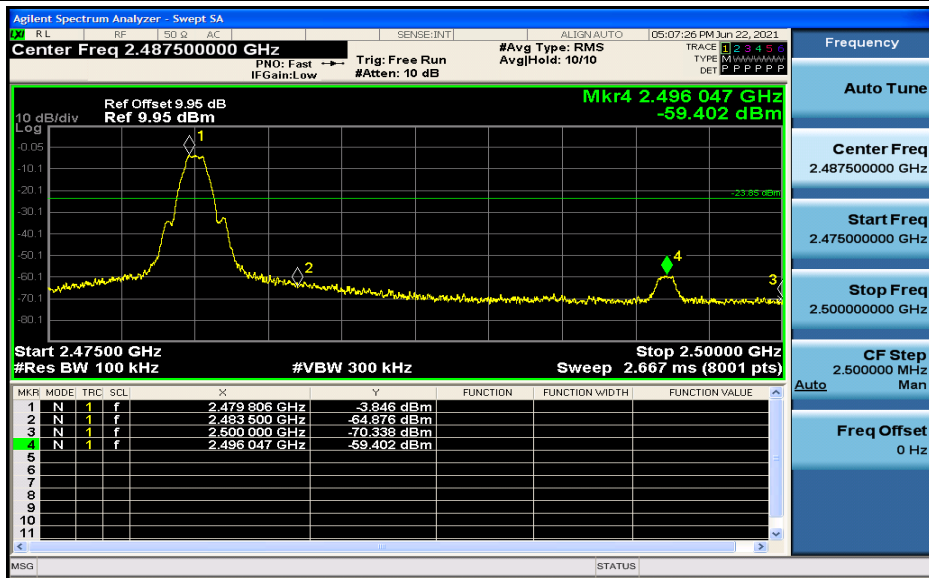
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Band-edge for RF Conducted Emissions_BLE_2402_Hopping Off_1M



Band-edge for RF Conducted Emissions_BLE_2480_Hopping Off_1M



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Band-edge for RF Conducted Emissions_BLE_2402_Hopping Off_2M



Band-edge for RF Conducted Emissions_BLE_2480_Hopping Off_2M



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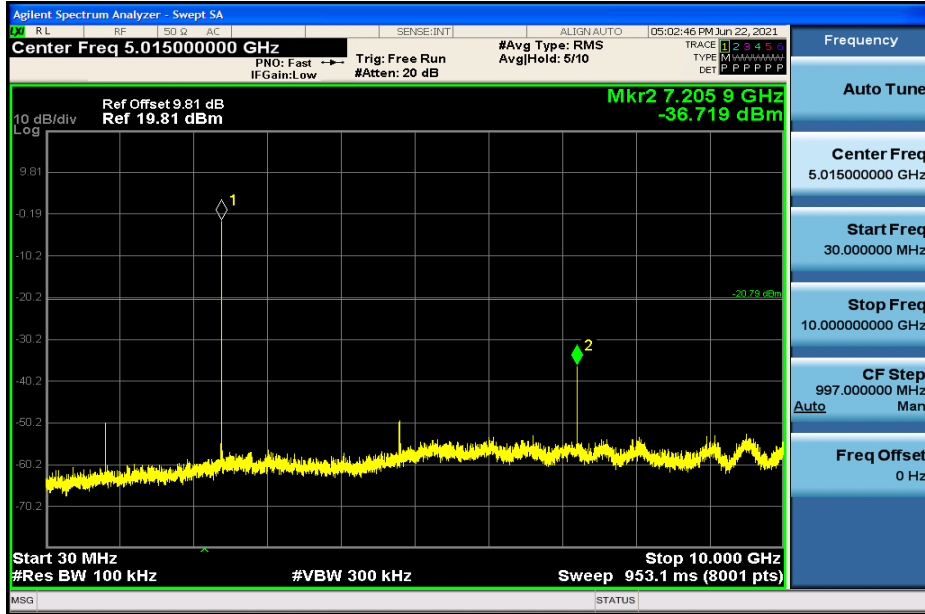
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]		Max. Level [dBm]		Limit [dBm]		Verdict
						1M	2M	1M	2M	1M	2M	
BLE	2402	30	10000	100	300	-0.79	-3.01	-36.72	-38.41	<-20.79	<-23.01	PASS
BLE	2402	10000	26000	100	300	-0.79	-3.01	-42.03	-42.64	<-20.79	<-23.01	PASS
BLE	2440	30	10000	100	300	-1.52	-3.73	-36.17	-35.42	<-21.52	<-23.73	PASS
BLE	2440	10000	26000	100	300	-1.51	-3.73	-43.13	-43.02	<-21.51	<-23.73	PASS
BLE	2480	30	10000	100	300	-3.67	-5.72	-35.65	-39.34	<-23.67	<-25.72	PASS
BLE	2480	10000	26000	100	300	-3.67	-5.71	-42.45	-42.78	<-23.67	<-25.71	PASS



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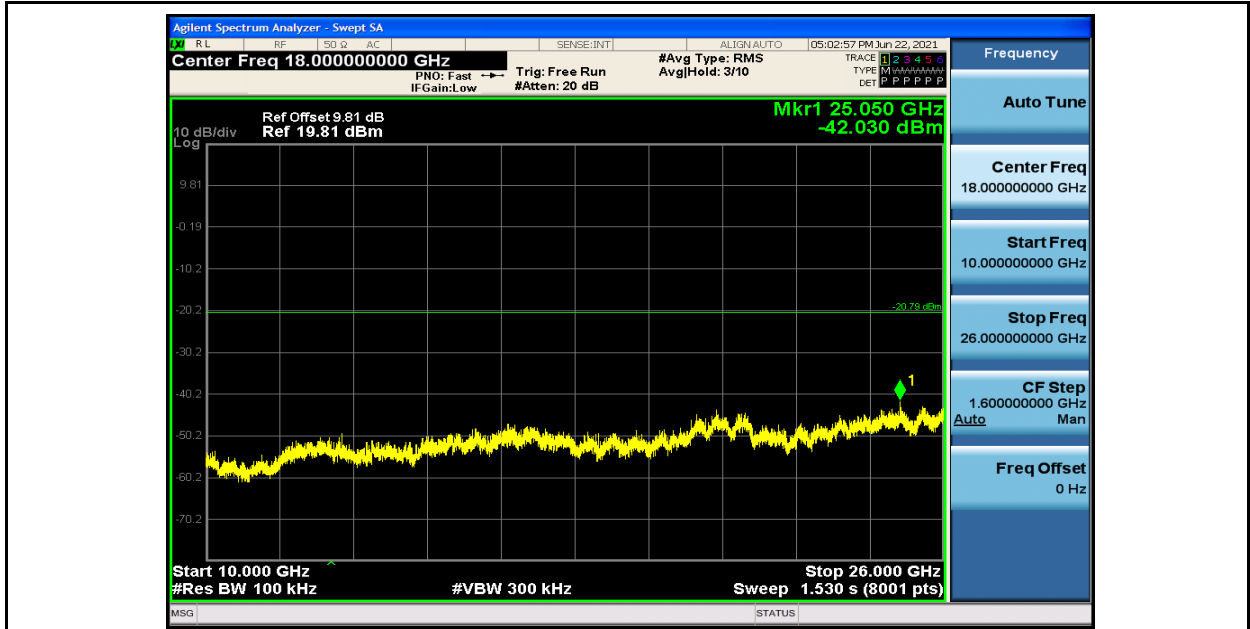
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RF Conducted Spurious Emissions_BLE_2402_1M



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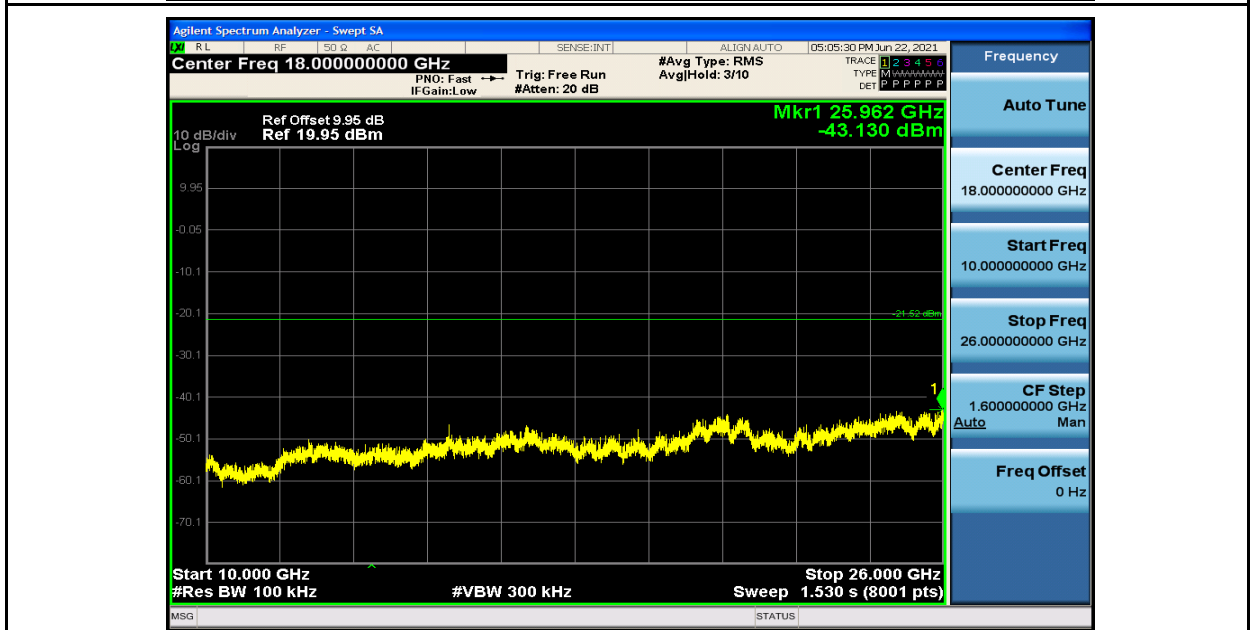
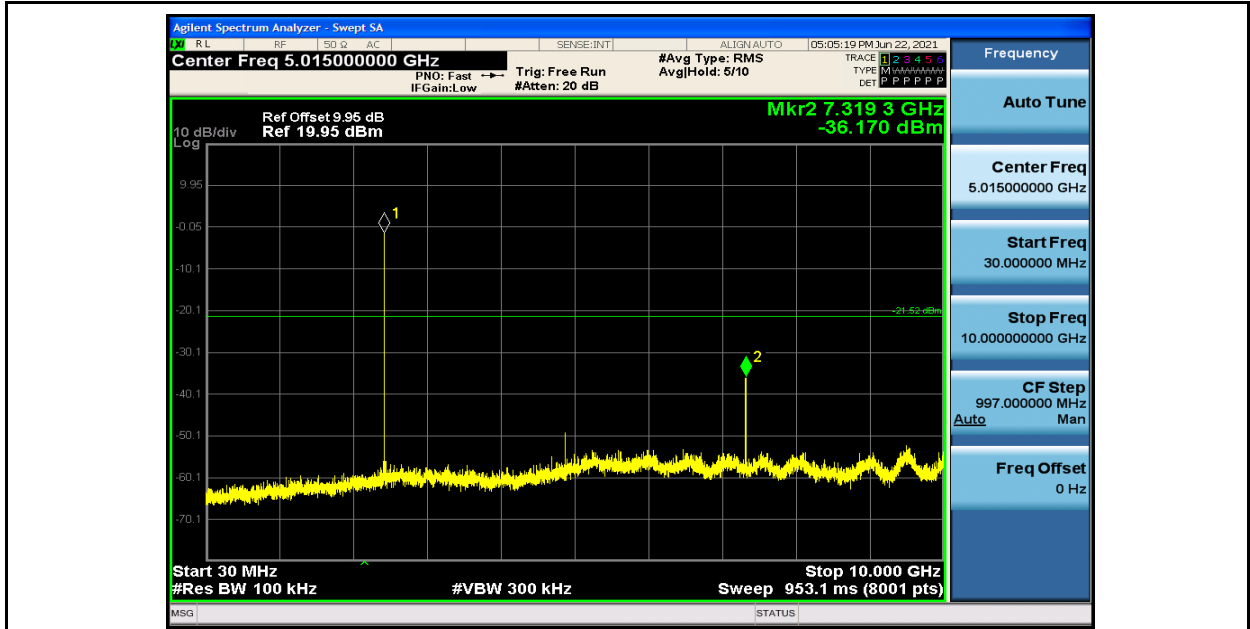


RF Conducted Spurious Emissions_BLE_2440_1M



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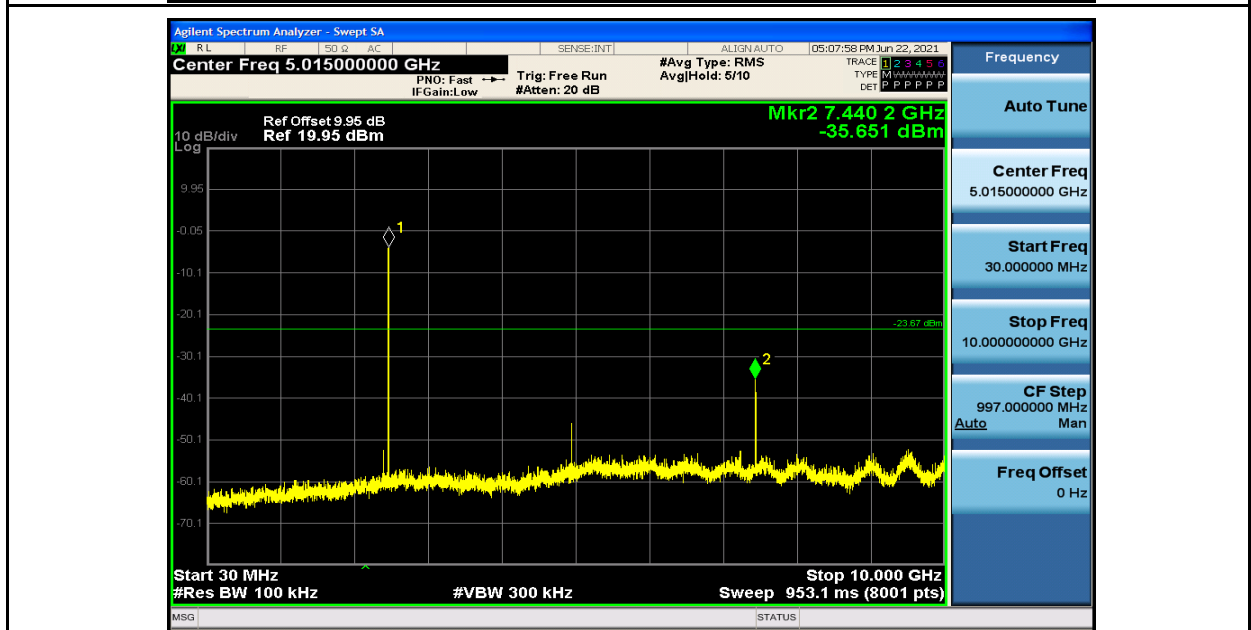


RF Conducted Spurious Emissions_BLE_2480_1M

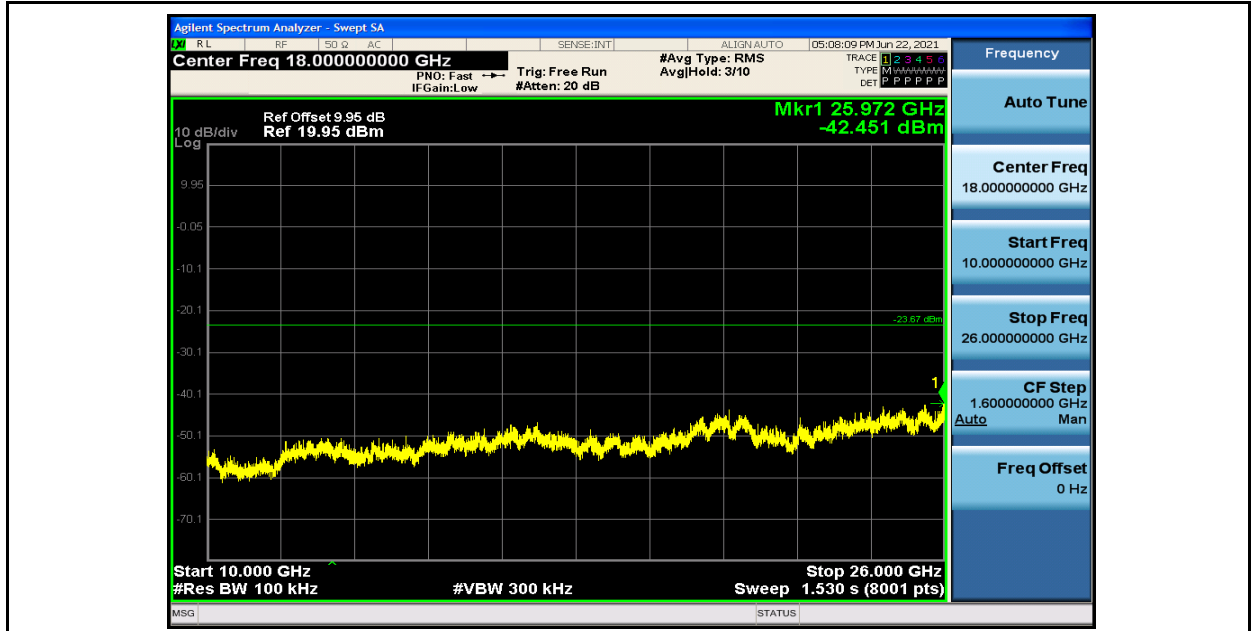


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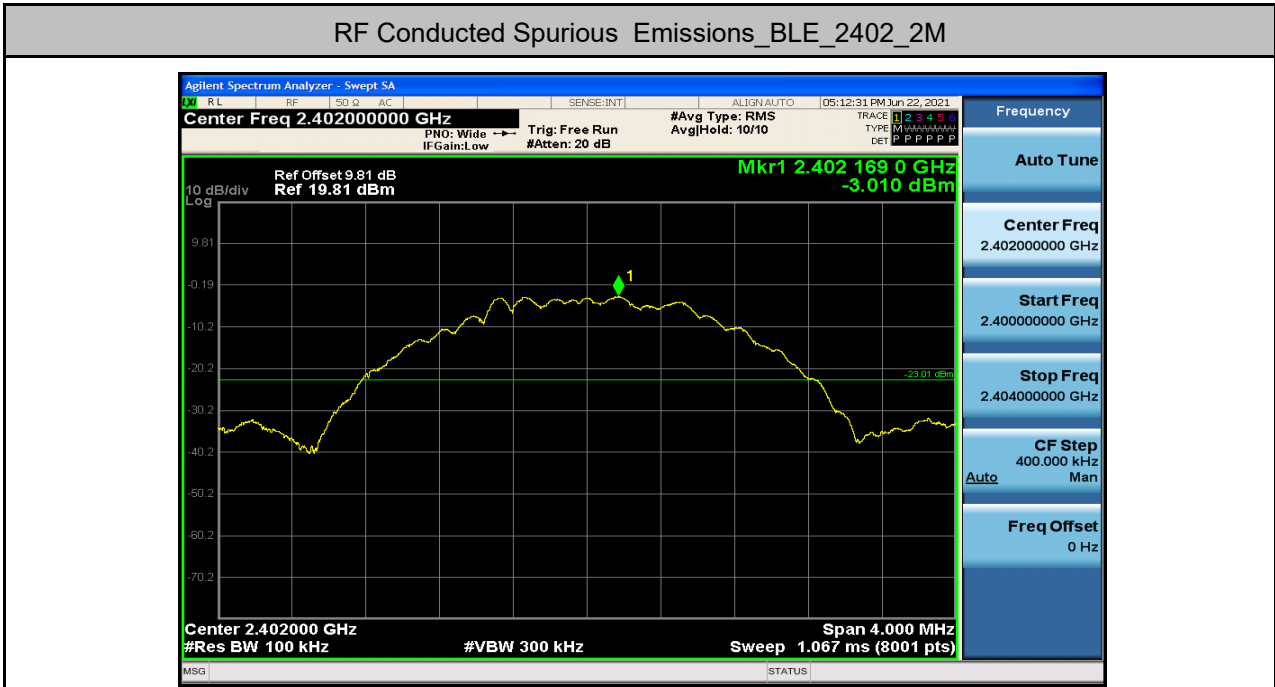
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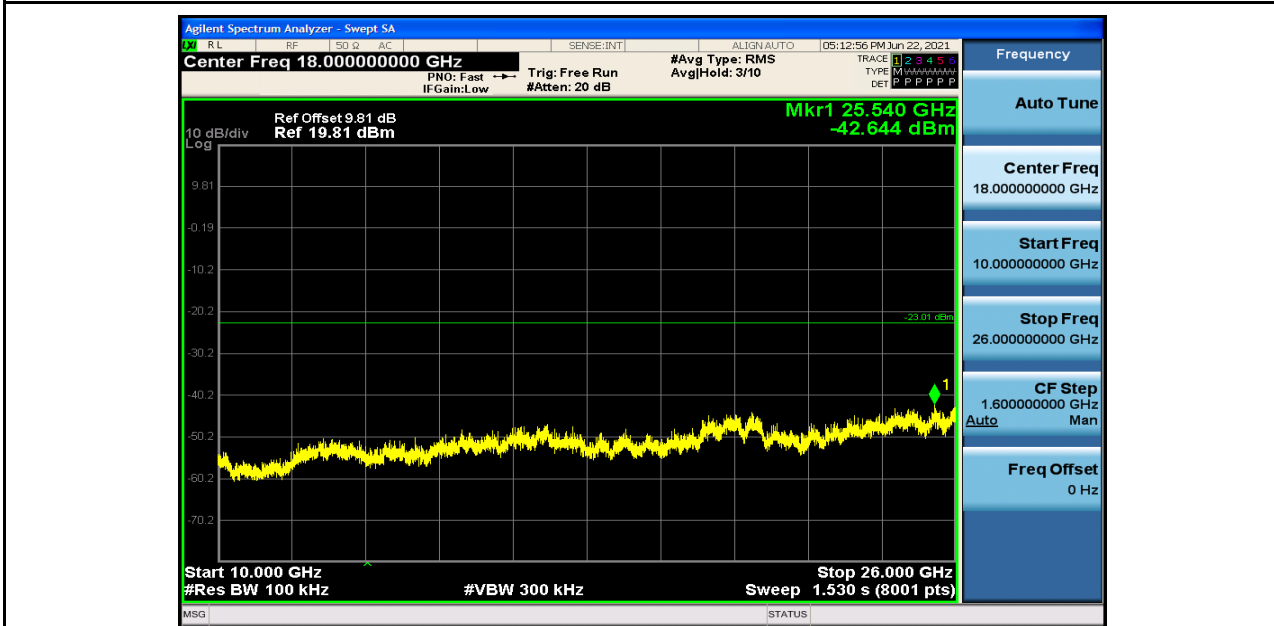
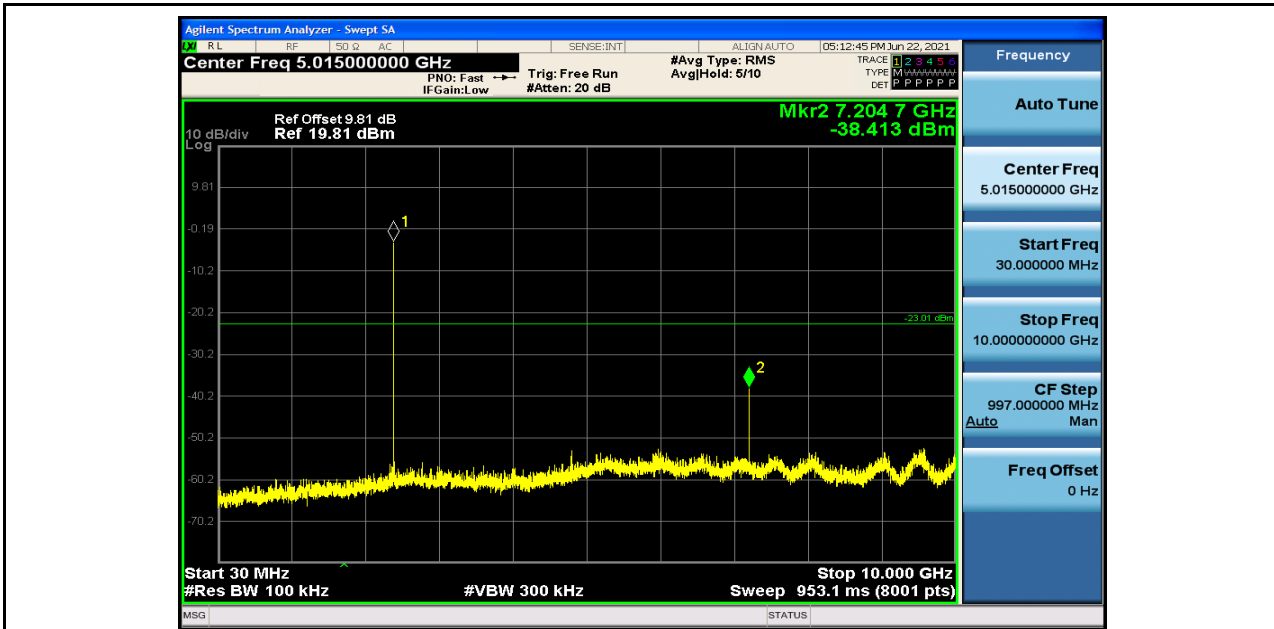


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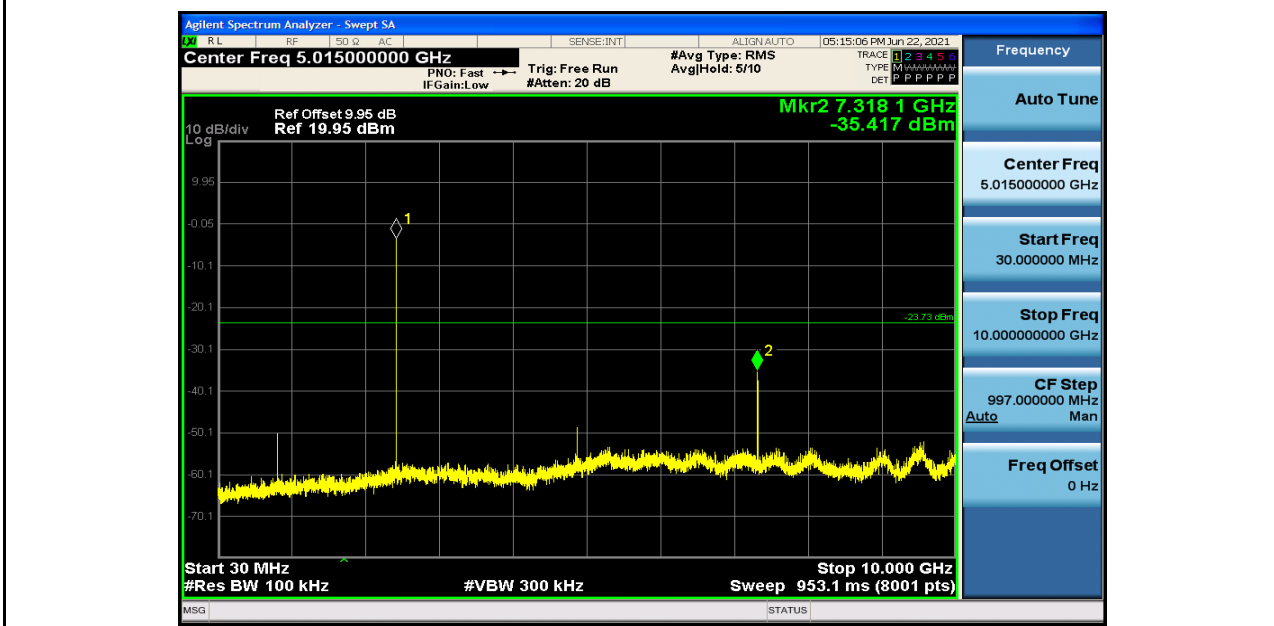


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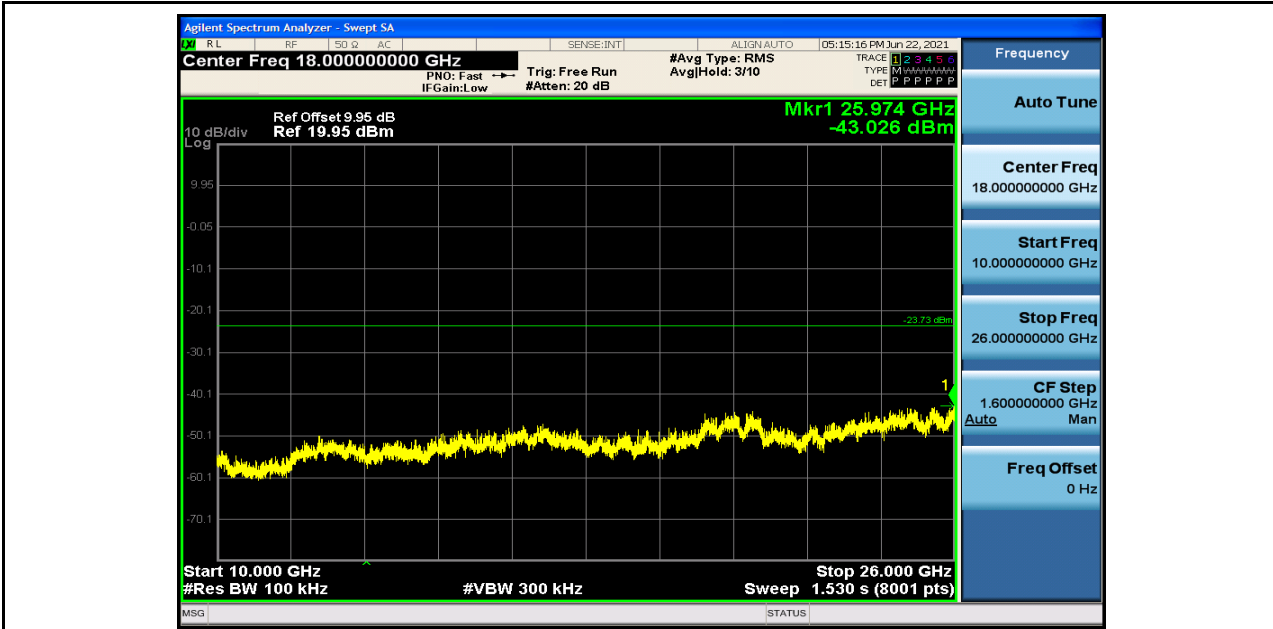


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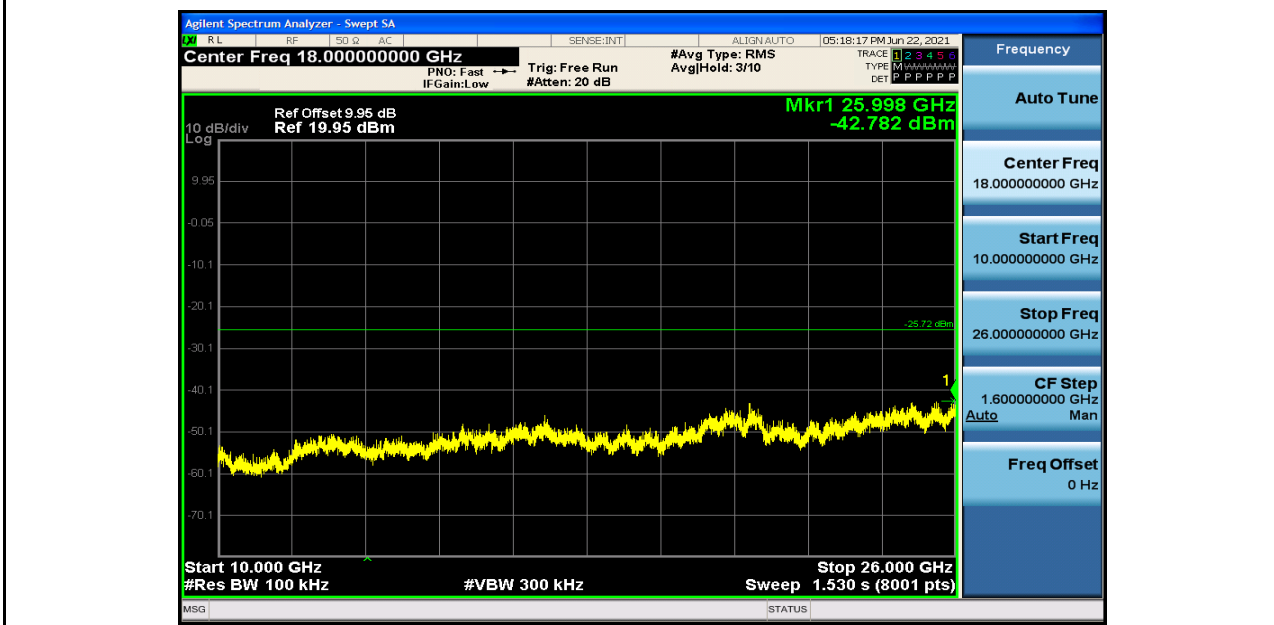
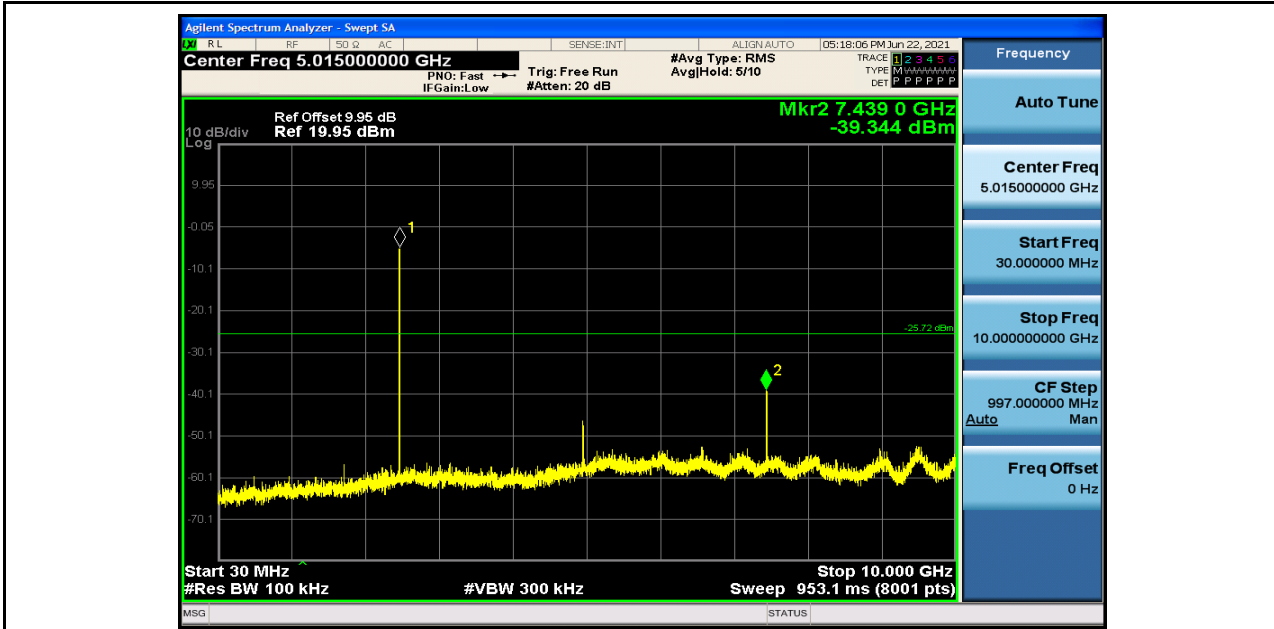


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