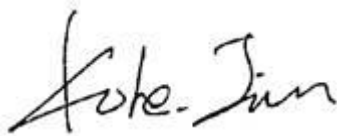


TEST REPORT

Application No.: GZEM2009015115CR
Applicant: Zhongshan Transtek Electronics Co., Ltd
Address of Applicant: No.23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Manufacturer: Zhongshan Transtek Electronics Co., Ltd
Address of Manufacturer: No.23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Factory: Zhongshan Transtek Electronics Co., Ltd
Address of Factory: No.23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China
Equipment Under Test (EUT):
FCC ID: 2AOJNGBF-2008
EUT Name: Body Fat Analyzer
Model No.: GBF-2008-BF, GBF-2008-BF1 □
 □ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s): 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-09-15
Date of Test: 2020-09-23 to 2020-11-23
Date of Issue: 2020-11-24

Test Result:	Pass*
---------------------	--------------

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



Kobe Jian

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-11-24		Original

Authorized for issue by:			
Tested By	 Lily_Kuang /Project Engineer	2020-09-23 to 2020-11-23 Date	
Checked By	 Ricky_Liu /Reviewer	2020-11-24 Date	



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2 Test Summary

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

N/A: Not applicable

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

■ Declaration of EUT Family Grouping:

Model No.: GBF-2008-BF, GBF-2008-BF1

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the appearance.

Therefore only one model GBF-2008-BF was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 6.0V = 4 x DC 1.5V size of "AAA" batteries
Antenna Gain: -1 dBi declared by applicant
Antenna Type: PCB antenna
Hardware Version: LS1200_V1.2
Firmware Version: V1.00
S/N: 20200826
Test Software Version: QCOM_V1.6
Power setting level: -10 dBm can not be changed by user
For Wi-Fi
Channel Spacing: 5MHz
Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)
Number of Channels: 802.11b(HT20):11
Operation Frequency: 802.11b(HT20): 2412MHz to 2462MHz
For BT
Channel Spacing: 2MHz
Modulation Type: GFSK
Number of Channels: 40
Operation Frequency: 2402MHz to 2480MHz
BT Version: V 5.0 for BLE_1M only

4.2 Description of Support Units

Description	Manufacturer	Power	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800



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4.3 Measurement Uncertainty

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

4.4 Test Location

All tests were performed at:

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

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

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

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

● **ACMA**

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

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

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

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

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

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

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

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

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

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

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

● **CBTL (Lab Code: TL129)**

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



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1dBi.

Please refer to appendix A for details.



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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

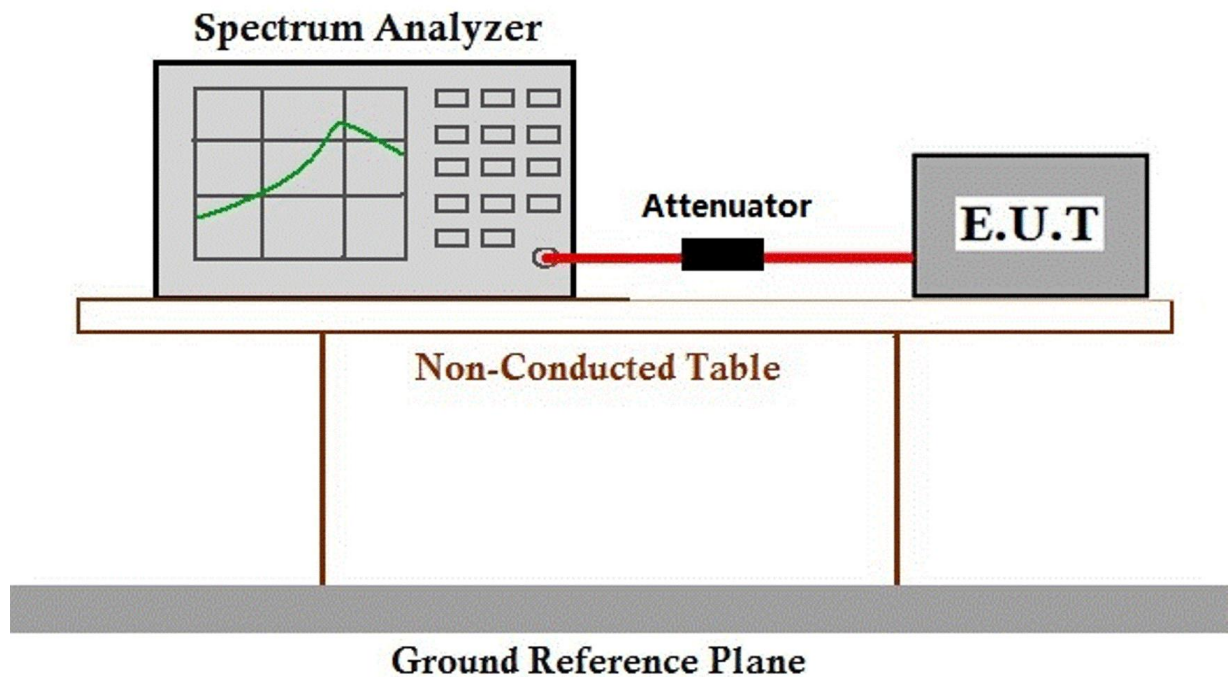
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 57 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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

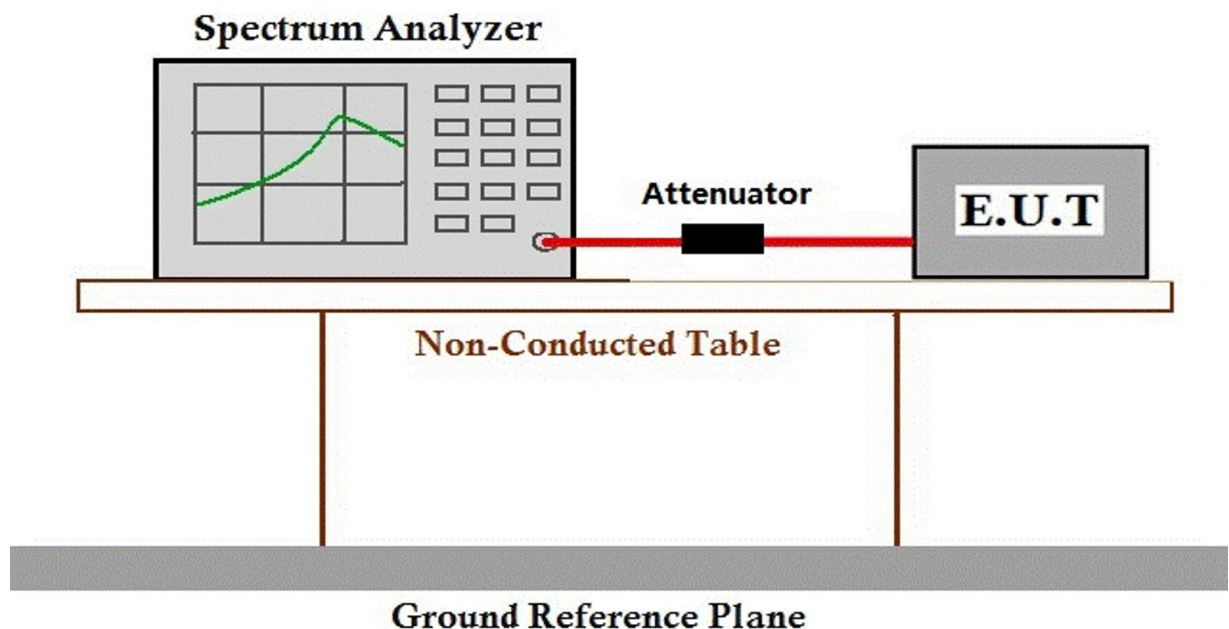
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 57 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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

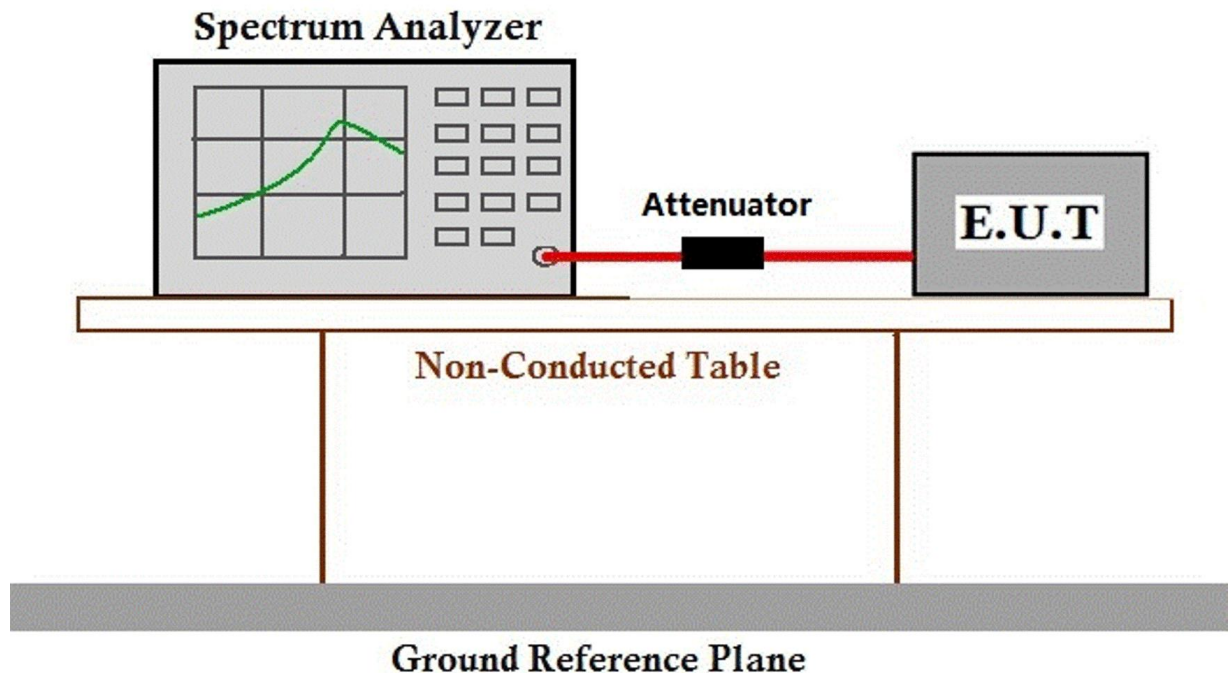
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 57 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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))

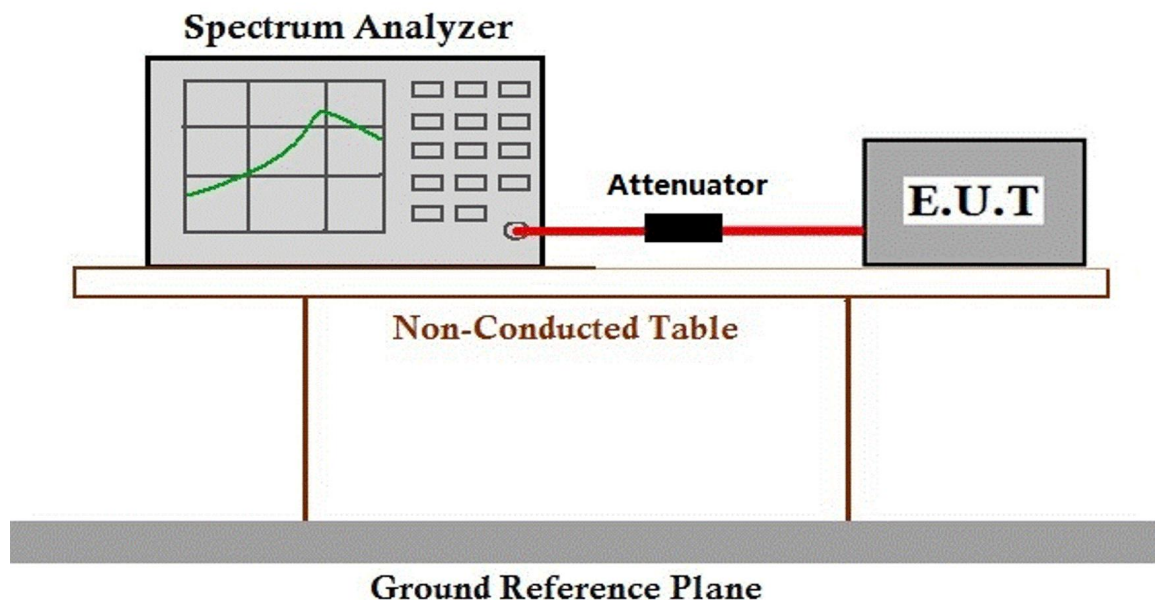
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C **Humidity:** 57 % RH **Atmospheric Pressure:** 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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))

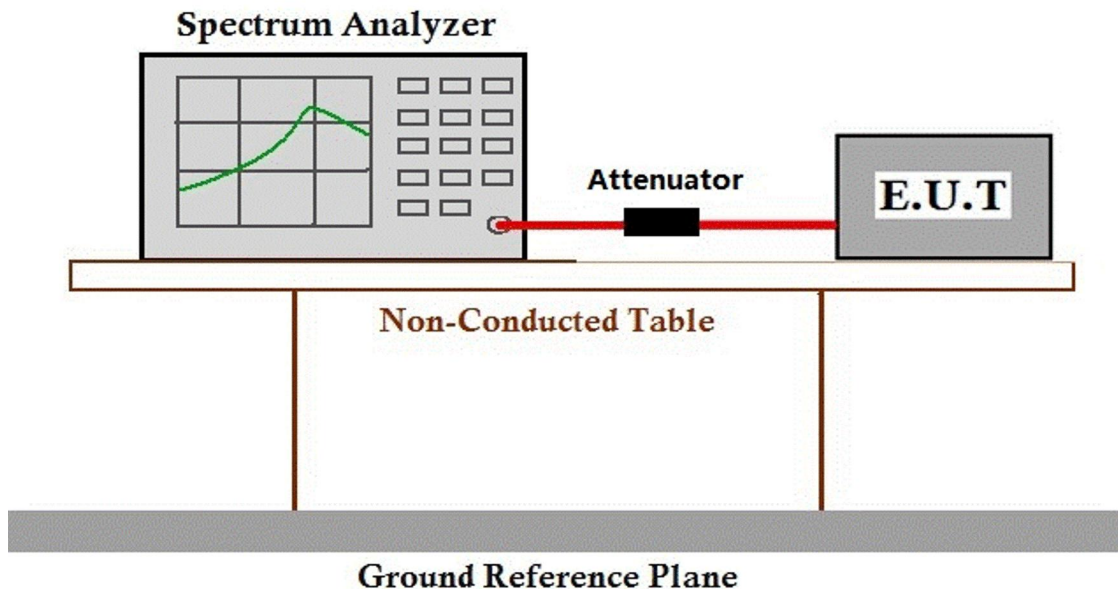
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C Humidity: 57 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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

Measurement Distance: 3m

Limit:

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

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

7.6.1 E.U.T. Operation

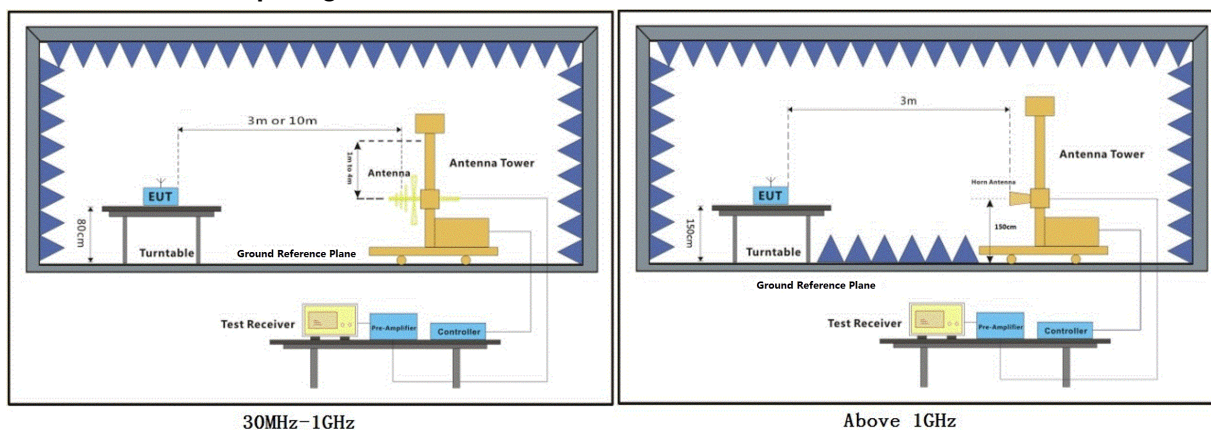
Operating Environment:

Temperature: 21 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

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

c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

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

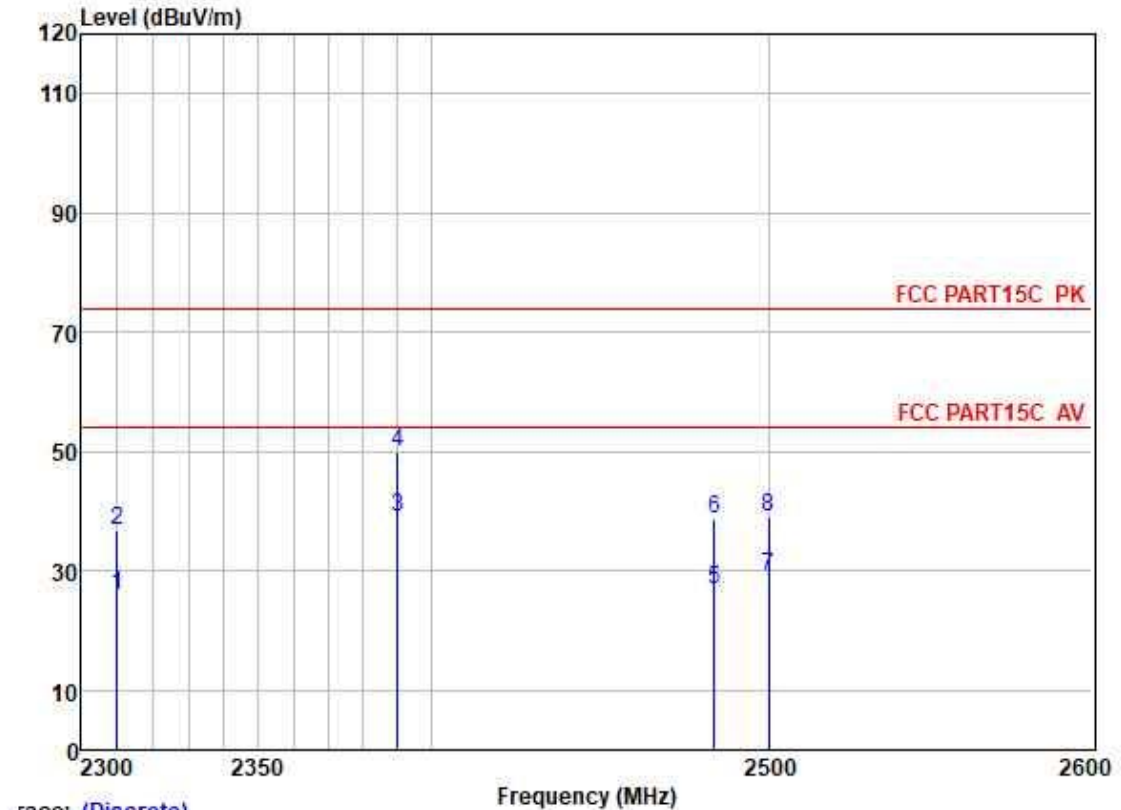
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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



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



Trace: (Discrete)

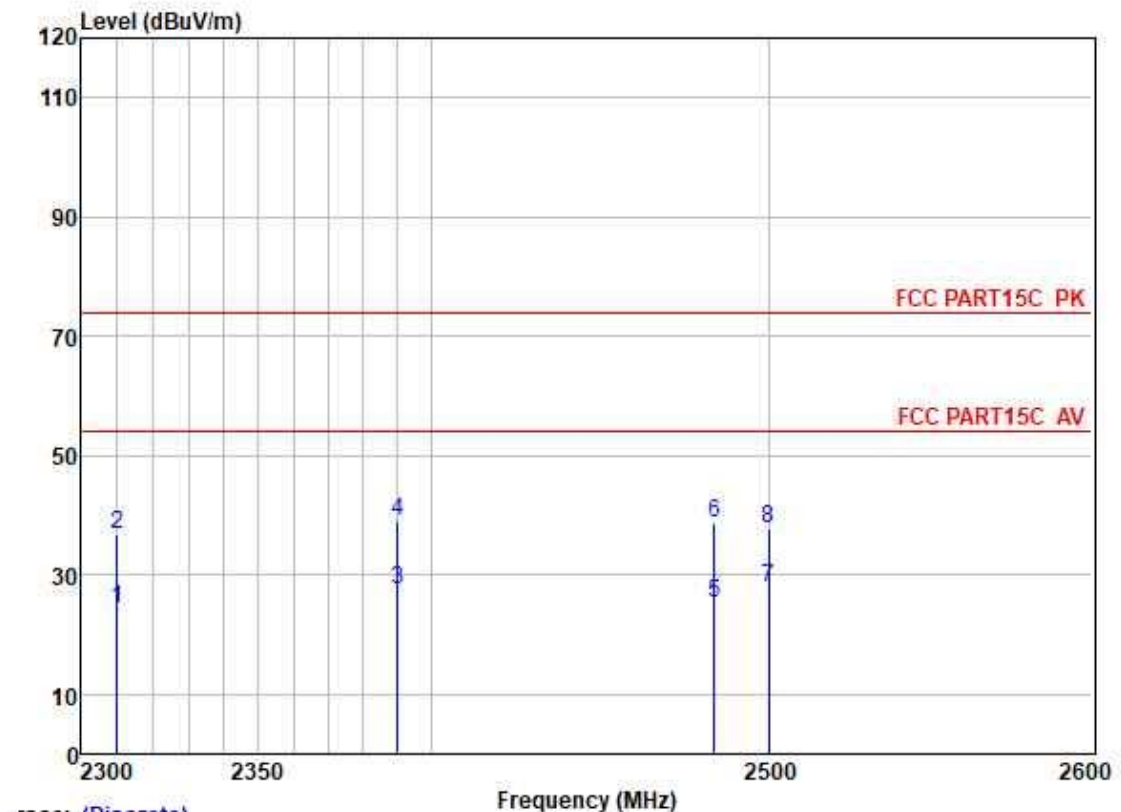
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	32.76	27.15	3.32	37.44	25.79	54.00	-28.21	HORIZONTAL	Average
2 2310.000	43.68	27.15	3.32	37.44	36.71	74.00	-37.29	HORIZONTAL	Peak
3 2390.000	45.62	27.33	3.48	37.42	39.01	54.00	-14.99	HORIZONTAL	Average
4 2390.000	56.48	27.33	3.48	37.42	49.87	74.00	-24.13	HORIZONTAL	Peak
5 2483.500	33.42	27.48	3.53	37.40	27.03	54.00	-26.97	HORIZONTAL	Average
6 2483.500	45.14	27.48	3.53	37.40	38.75	74.00	-35.25	HORIZONTAL	Peak
7 2500.000	35.69	27.50	3.40	37.39	29.20	54.00	-24.80	HORIZONTAL	Average
8 2500.000	45.54	27.50	3.40	37.39	39.05	74.00	-34.95	HORIZONTAL	Peak



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



Trace: (Discrete)

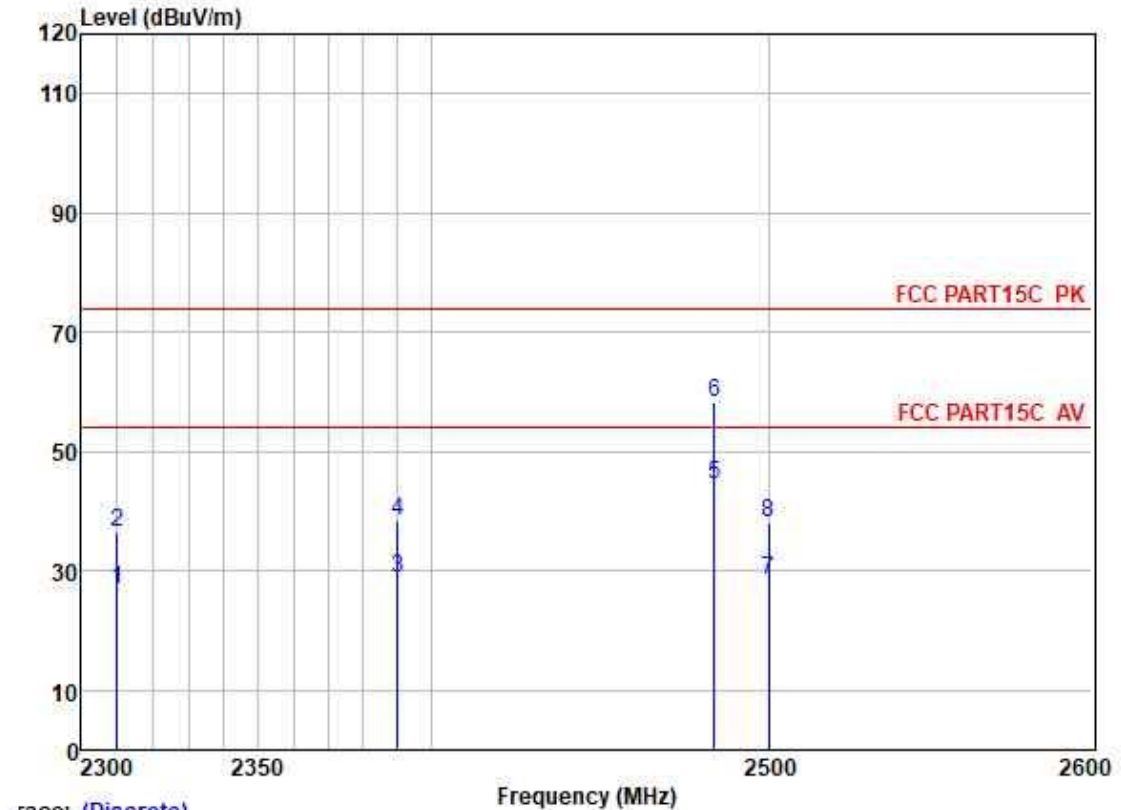
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	31.37	27.15	3.32	37.44	24.40	54.00	-29.60	VERTICAL	Average
2	2310.000	43.72	27.15	3.32	37.44	36.75	74.00	-37.25	VERTICAL	Peak
3	2390.000	34.14	27.33	3.48	37.42	27.53	54.00	-26.47	VERTICAL	Average
4	2390.000	45.73	27.33	3.48	37.42	39.12	74.00	-34.88	VERTICAL	Peak
5	2483.500	31.69	27.48	3.53	37.40	25.30	54.00	-28.70	VERTICAL	Average
6	2483.500	44.95	27.48	3.53	37.40	38.56	74.00	-35.44	VERTICAL	Peak
7	2500.000	34.30	27.50	3.40	37.39	27.81	54.00	-26.19	VERTICAL	Average
8	2500.000	44.32	27.50	3.40	37.39	37.83	74.00	-36.17	VERTICAL	Peak



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race: (Discrete)

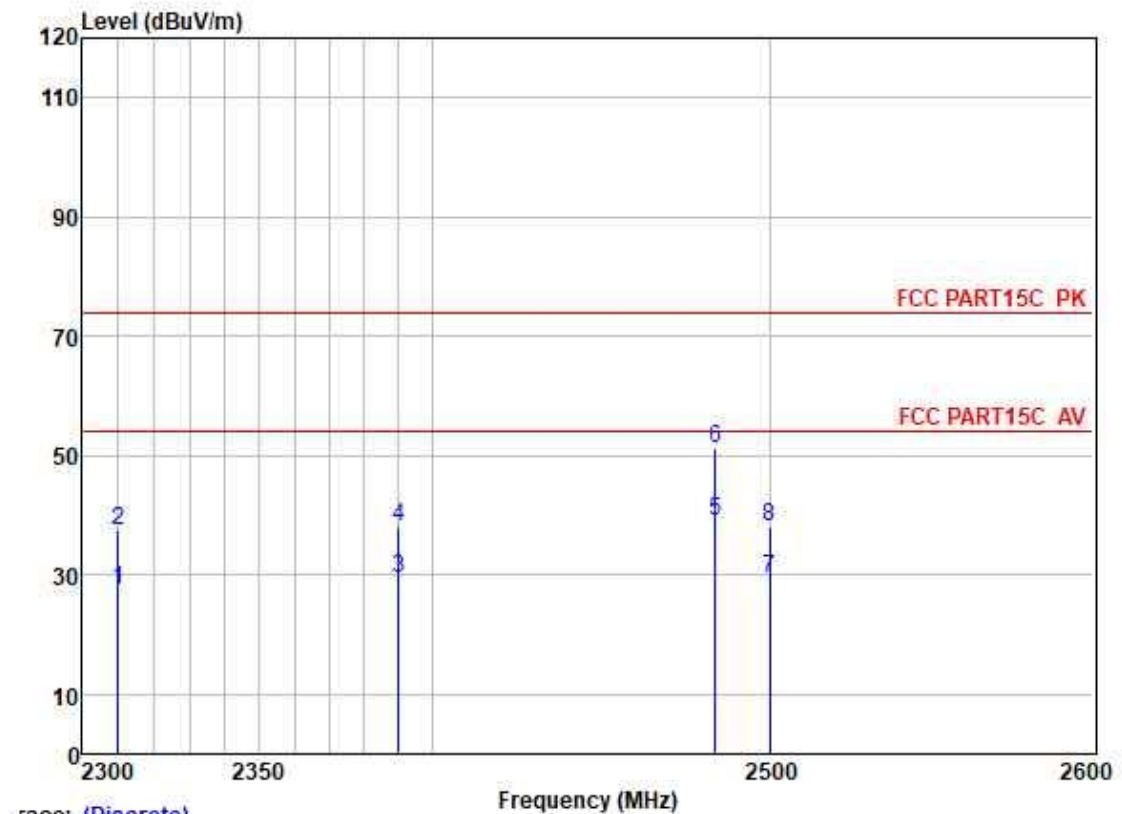
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	33.88	27.15	3.32	37.44	26.91	54.00	-27.09	HORIZONTAL Average
2	2310.000	43.52	27.15	3.32	37.44	36.55	74.00	-37.45	HORIZONTAL Peak
3	2390.000	35.34	27.33	3.48	37.42	28.73	54.00	-25.27	HORIZONTAL Average
4	2390.000	45.04	27.33	3.48	37.42	38.43	74.00	-35.57	HORIZONTAL Peak
5	2483.500	50.88	27.48	3.53	37.40	44.49	54.00	-9.51	HORIZONTAL Average
6	2483.500	64.78	27.48	3.53	37.40	58.39	74.00	-15.61	HORIZONTAL Peak
7	2500.000	35.12	27.50	3.40	37.39	28.63	54.00	-25.37	HORIZONTAL Average
8	2500.000	44.72	27.50	3.40	37.39	38.23	74.00	-35.77	HORIZONTAL Peak



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



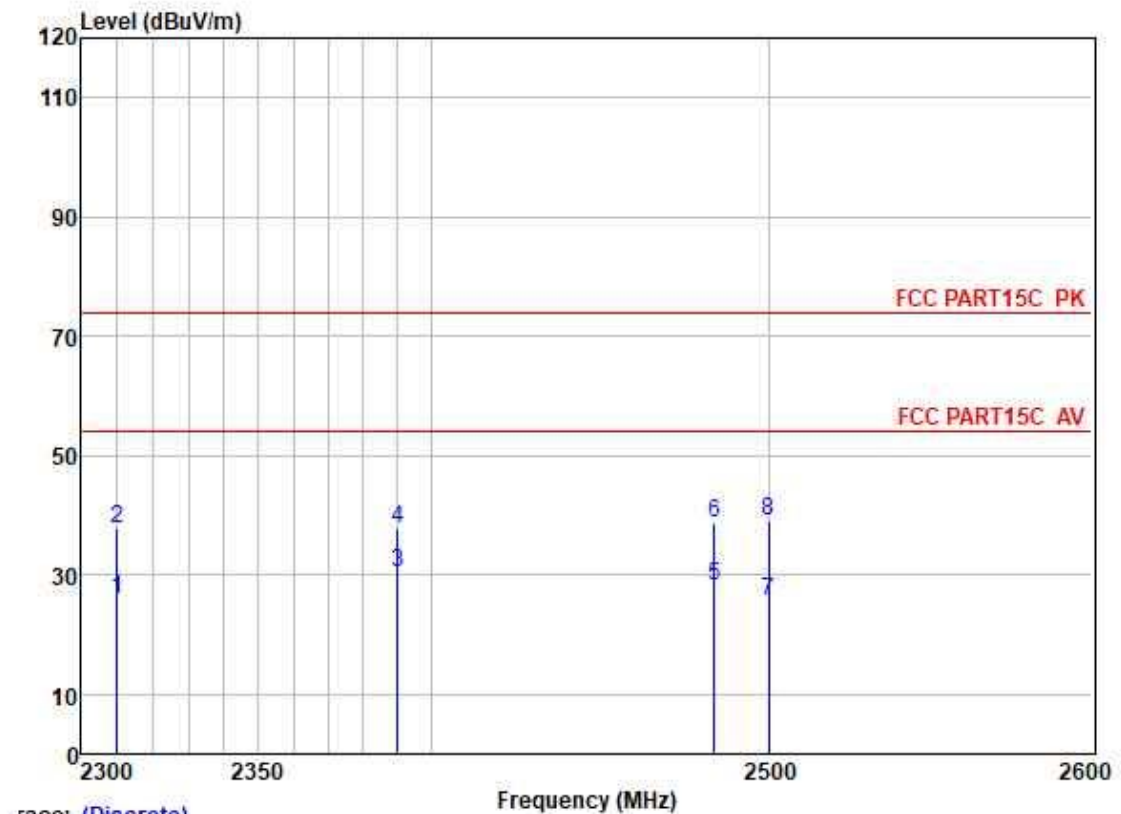
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	34.57	27.15	3.32	37.44	27.60	54.00	-26.40	VERTICAL	Average
2	2310.000	44.35	27.15	3.32	37.44	37.38	74.00	-36.62	VERTICAL	Peak
3	2390.000	35.96	27.33	3.48	37.42	29.35	54.00	-24.65	VERTICAL	Average
4	2390.000	44.60	27.33	3.48	37.42	37.99	74.00	-36.01	VERTICAL	Peak
5	2483.500	45.37	27.48	3.53	37.40	38.98	54.00	-15.02	VERTICAL	Average
6	2483.500	57.61	27.48	3.53	37.40	51.22	74.00	-22.78	VERTICAL	Peak
7	2500.000	35.88	27.50	3.40	37.39	29.39	54.00	-24.61	VERTICAL	Average
8	2500.000	44.65	27.50	3.40	37.39	38.16	74.00	-35.84	VERTICAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

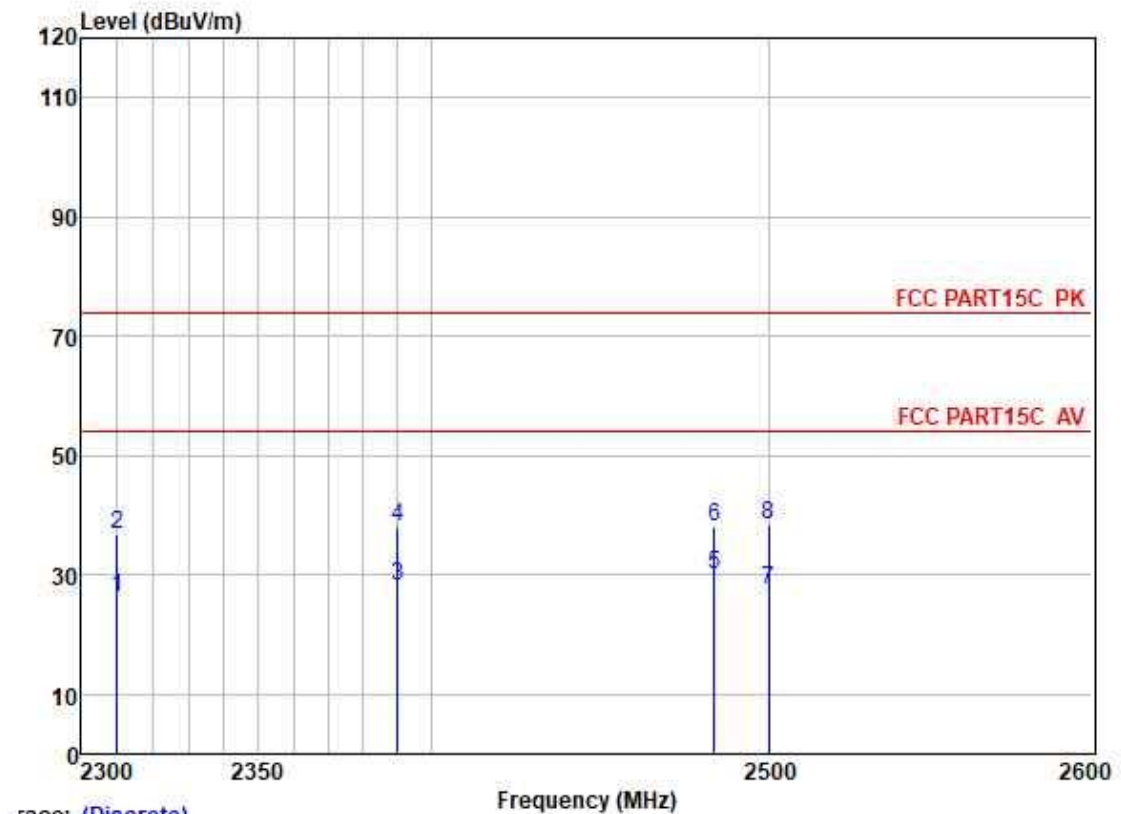
	ReadAntenna	Cable	Preamplifier	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	33.00	27.15	3.32	37.44	26.03	54.00	-27.97	HORIZONTAL	Average
2 2310.000	44.68	27.15	3.32	37.44	37.71	74.00	-36.29	HORIZONTAL	Peak
3 2390.000	36.87	27.33	3.48	37.42	30.26	54.00	-23.74	HORIZONTAL	Average
4 2390.000	44.26	27.33	3.48	37.42	37.65	74.00	-36.35	HORIZONTAL	Peak
5 2483.500	34.44	27.48	3.53	37.40	28.05	54.00	-25.95	HORIZONTAL	Average
6 2483.500	45.20	27.48	3.53	37.40	38.81	74.00	-35.19	HORIZONTAL	Peak
7 2500.000	32.11	27.50	3.40	37.39	25.62	54.00	-28.38	HORIZONTAL	Average
8 2500.000	45.49	27.50	3.40	37.39	39.00	74.00	-35.00	HORIZONTAL	Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

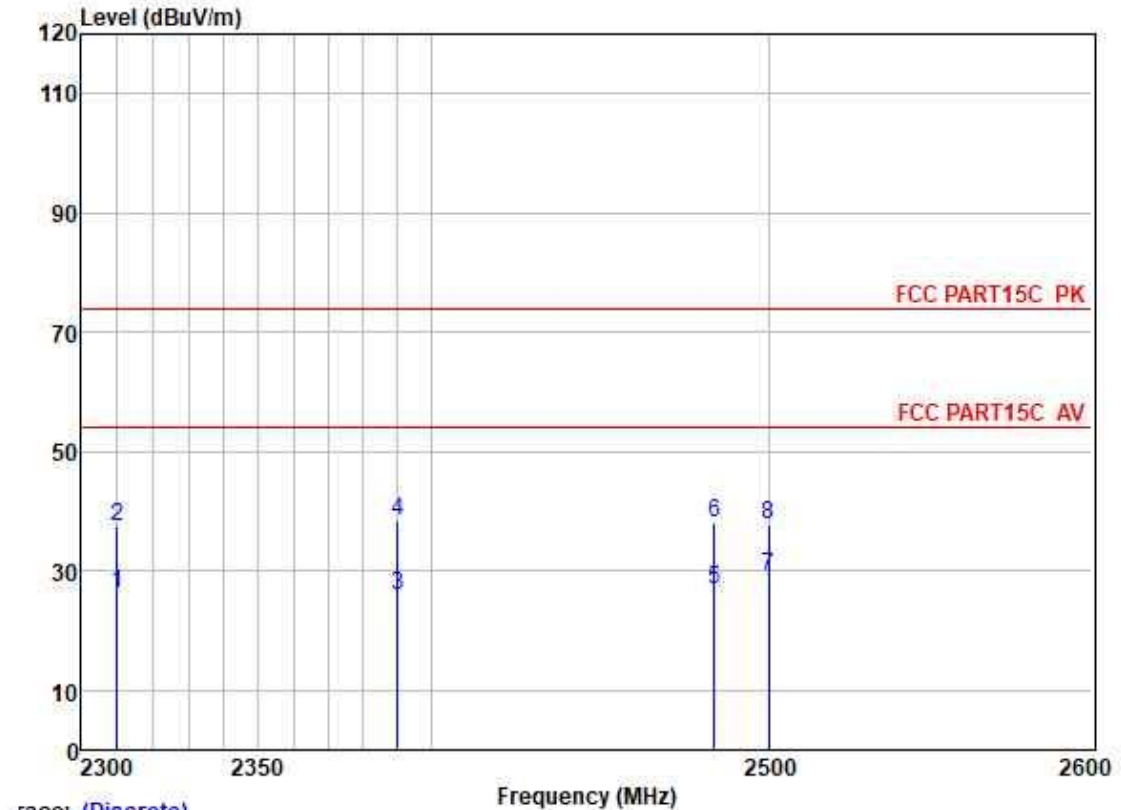
	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.25	27.15	3.32	37.44	26.28	54.00	-27.72	VERTICAL Average
2	2310.000	43.68	27.15	3.32	37.44	36.71	74.00	-37.29	VERTICAL Peak
3	2390.000	34.72	27.33	3.48	37.42	28.11	54.00	-25.89	VERTICAL Average
4	2390.000	44.58	27.33	3.48	37.42	37.97	74.00	-36.03	VERTICAL Peak
5	2483.500	36.54	27.48	3.53	37.40	30.15	54.00	-23.85	VERTICAL Average
6	2483.500	44.37	27.48	3.53	37.40	37.98	74.00	-36.02	VERTICAL Peak
7	2500.000	33.97	27.50	3.40	37.39	27.48	54.00	-26.52	VERTICAL Average
8	2500.000	44.99	27.50	3.40	37.39	38.50	74.00	-35.50	VERTICAL Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

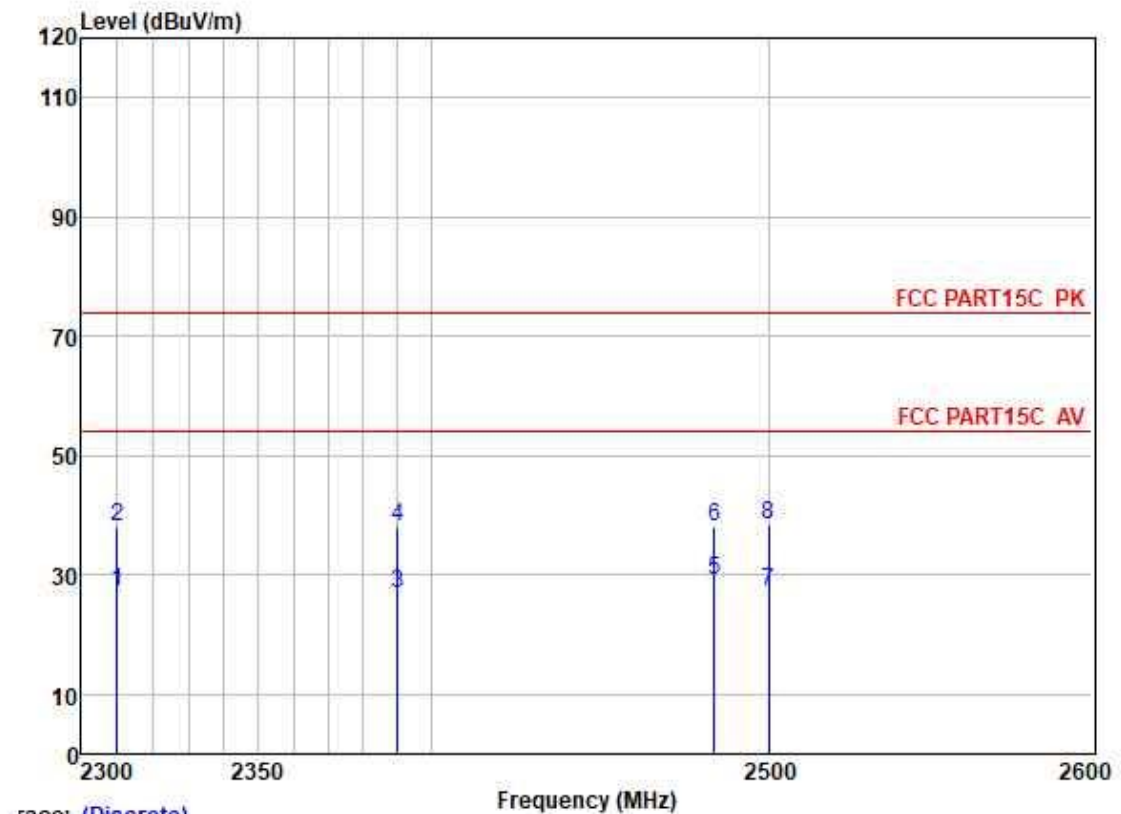
	Read	Antenna	Cable	Preamplifier	Level	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	33.12	27.15	3.32	37.44	26.15	54.00	-27.85	HORIZONTAL	Average
2 2310.000	44.51	27.15	3.32	37.44	37.54	74.00	-36.46	HORIZONTAL	Peak
3 2390.000	32.38	27.33	3.48	37.42	25.77	54.00	-28.23	HORIZONTAL	Average
4 2390.000	44.85	27.33	3.48	37.42	38.24	74.00	-35.76	HORIZONTAL	Peak
5 2483.500	33.26	27.48	3.53	37.40	26.87	54.00	-27.13	HORIZONTAL	Average
6 2483.500	44.49	27.48	3.53	37.40	38.10	74.00	-35.90	HORIZONTAL	Peak
7 2500.000	35.52	27.50	3.40	37.39	29.03	54.00	-24.97	HORIZONTAL	Average
8 2500.000	44.28	27.50	3.40	37.39	37.79	74.00	-36.21	HORIZONTAL	Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamplifier	Level	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	34.17	27.15	3.32	37.44	27.20	54.00	-26.80	VERTICAL
2	2310.000	45.11	27.15	3.32	37.44	38.14	74.00	-35.86	VERTICAL
3	2390.000	33.42	27.33	3.48	37.42	26.81	54.00	-27.19	VERTICAL
4	2390.000	44.72	27.33	3.48	37.42	38.11	74.00	-35.89	VERTICAL
5	2483.500	35.36	27.48	3.53	37.40	28.97	54.00	-25.03	VERTICAL
6	2483.500	44.53	27.48	3.53	37.40	38.14	74.00	-35.86	VERTICAL
7	2500.000	33.75	27.50	3.40	37.39	27.26	54.00	-26.74	VERTICAL
8	2500.000	44.78	27.50	3.40	37.39	38.29	74.00	-35.71	VERTICAL



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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

Measurement Distance: 3m

Limit:

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

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



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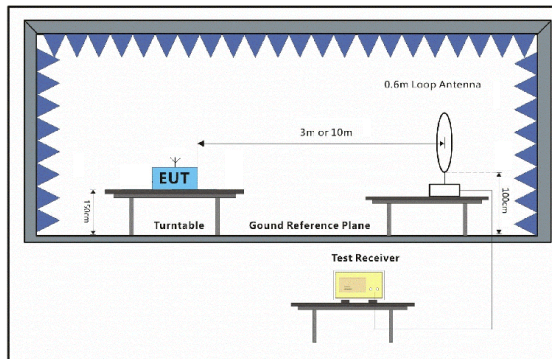
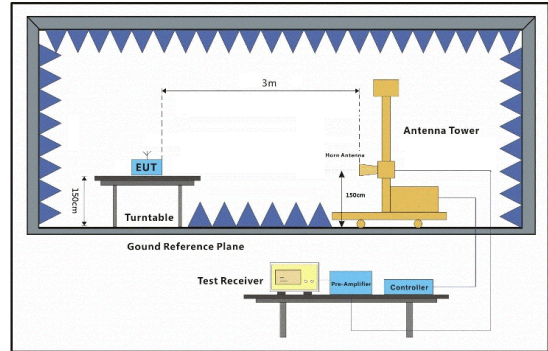
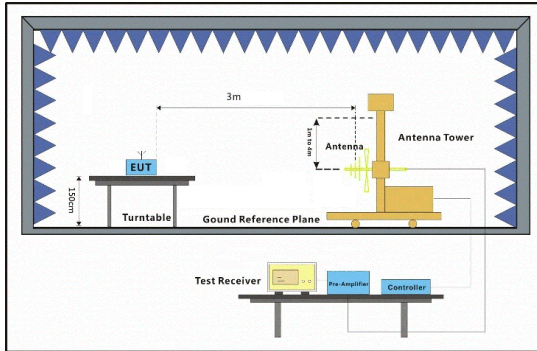
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c:TX mode_Keep the EUT in continuously transmitting mode with the data rate @ 11Mbps of IEEE 802.11b.

7.7.2 Test Setup Diagram



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.

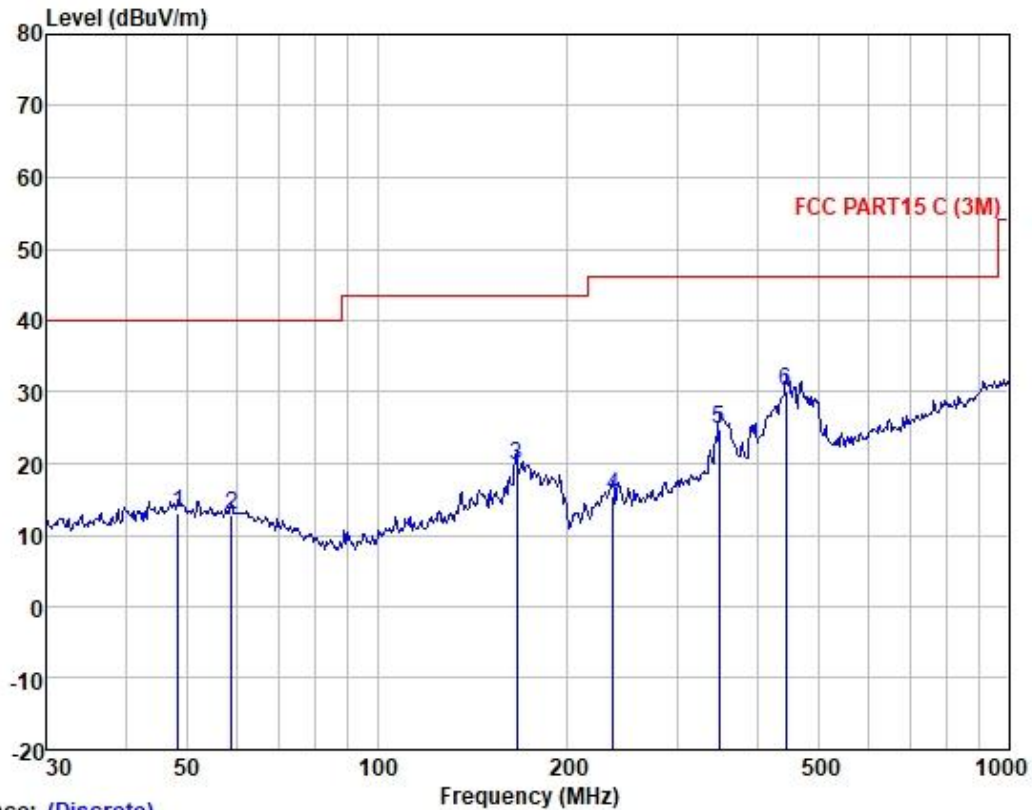
Remark:

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



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



Trace: (Discrete)

Site : SGS
Condition: FCC PART15 C (3M) 3m HORIZONTAL
Job :
Model : GBF-2008-BF
Power :
Test Mode:

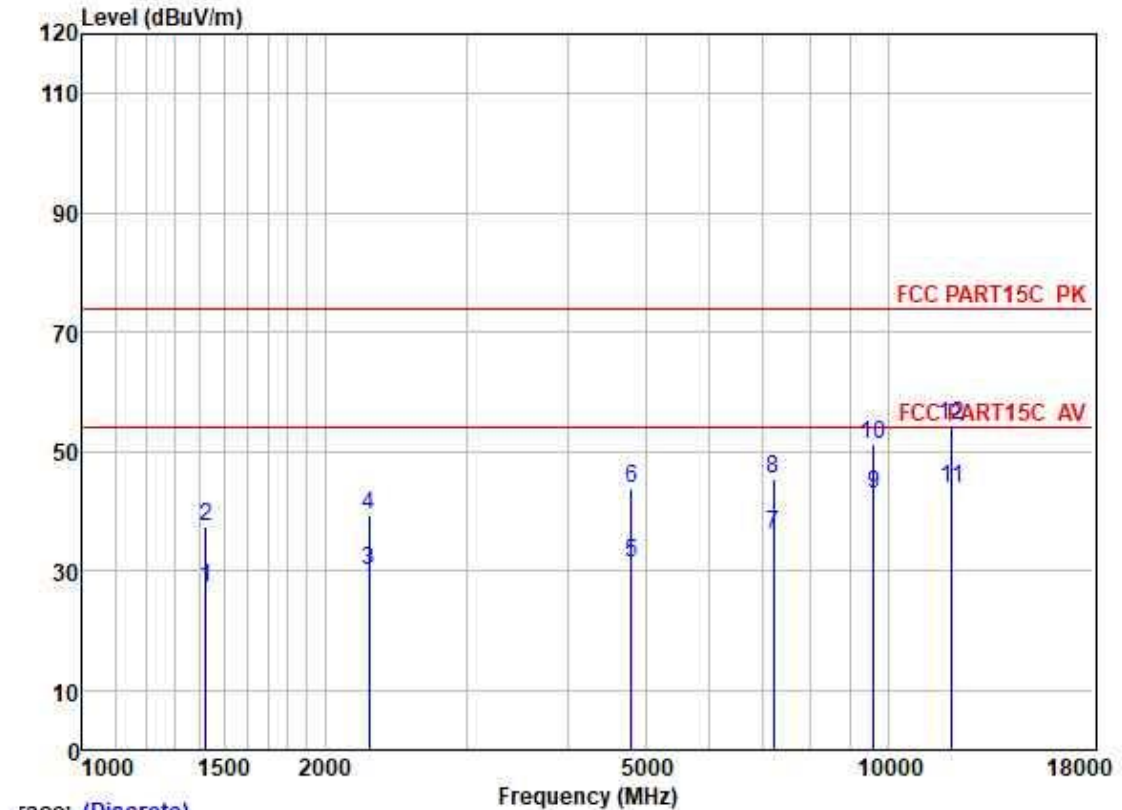
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.332	24.98	13.99	1.19	27.17	12.99	40.00	-27.01	HORIZONTAL QP
2	58.819	25.09	13.52	1.32	27.16	12.77	40.00	-27.23	HORIZONTAL QP
3	166.651	30.96	13.37	2.21	26.78	19.76	43.50	-23.74	HORIZONTAL QP
4	236.645	28.00	11.56	2.67	26.67	15.56	46.00	-30.44	HORIZONTAL QP
5	348.027	34.21	14.50	3.15	26.96	24.90	46.00	-21.10	HORIZONTAL QP
6	443.294	36.73	17.13	3.97	27.61	30.22	46.00	-15.78	HORIZONTAL QP



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



Trace: (Discrete)

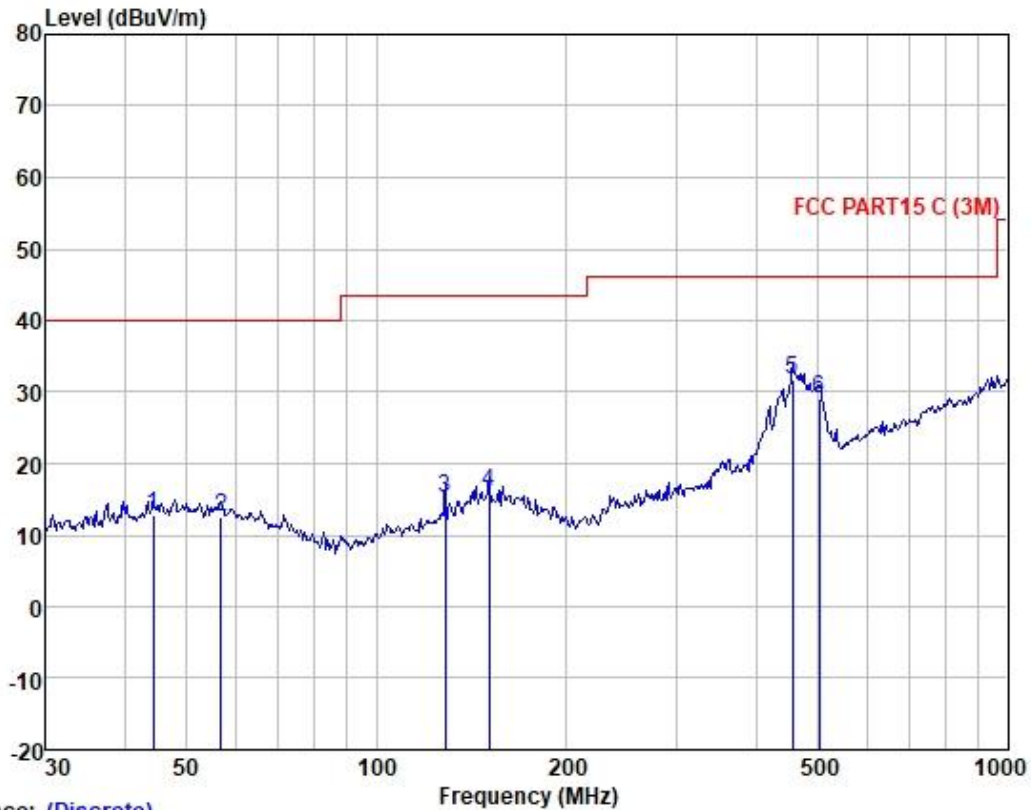
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1422.798	37.12	25.42	2.64	37.87	27.31	54.00	-26.69	HORIZONTAL Average
2	1422.798	47.34	25.42	2.64	37.87	37.53	74.00	-36.47	HORIZONTAL Peak
3	2265.907	37.41	26.98	3.27	37.45	30.21	54.00	-23.79	HORIZONTAL Average
4	2265.907	46.67	26.98	3.27	37.45	39.47	74.00	-34.53	HORIZONTAL Peak
5	4804.490	31.61	31.42	5.40	36.94	31.49	54.00	-22.51	HORIZONTAL Average
6	4804.490	44.00	31.42	5.40	36.94	43.88	74.00	-30.12	HORIZONTAL Peak
7	7206.292	31.42	35.54	5.98	36.93	36.01	54.00	-17.99	HORIZONTAL Average
8	7206.292	40.74	35.54	5.98	36.93	45.33	74.00	-28.67	HORIZONTAL Peak
9	9608.957	34.54	38.37	7.07	37.08	42.90	54.00	-11.10	HORIZONTAL Average
10	9608.957	42.97	38.37	7.07	37.08	51.33	74.00	-22.67	HORIZONTAL Peak
11	12010.800	33.85	38.90	8.19	37.20	43.74	54.00	-10.26	HORIZONTAL Average
12	12010.800	44.65	38.90	8.19	37.20	54.54	74.00	-19.46	HORIZONTAL Peak



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



Trace: (Discrete)

Site : SGS
Condition: FCC PART15 C (3M) 3m VERTICAL
Job :
Model : GBF-2008-BF
Power :
Test Mode:

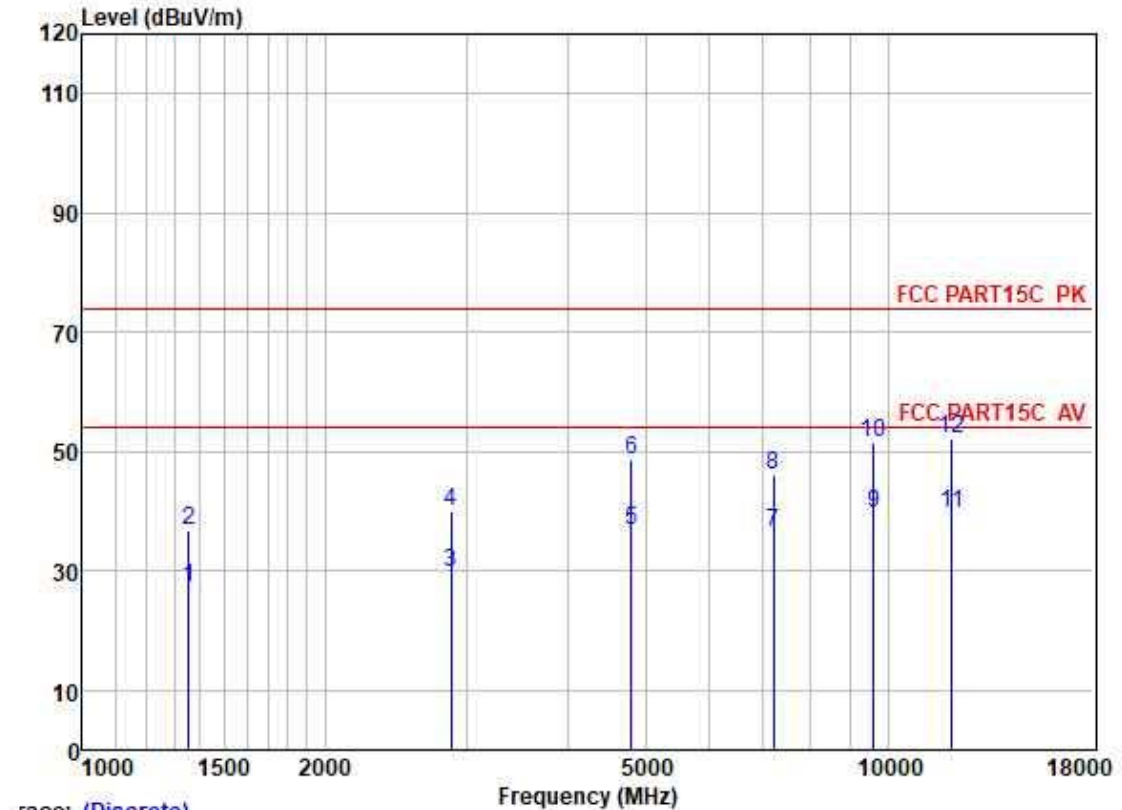
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.431	25.10	13.82	1.18	27.17	12.93	40.00	-27.07	VERTICAL QP
2	56.792	24.74	13.66	1.29	27.16	12.53	40.00	-27.47	VERTICAL QP
3	128.563	28.59	11.87	1.83	27.00	15.29	43.50	-28.21	VERTICAL QP
4	151.067	27.04	13.80	2.06	26.83	16.07	43.50	-27.43	VERTICAL QP
5	455.906	38.08	17.42	4.12	27.75	31.87	46.00	-14.13	VERTICAL QP
6	502.940	35.07	17.96	3.89	27.98	28.94	46.00	-17.06	VERTICAL QP



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



Trace: (Discrete)

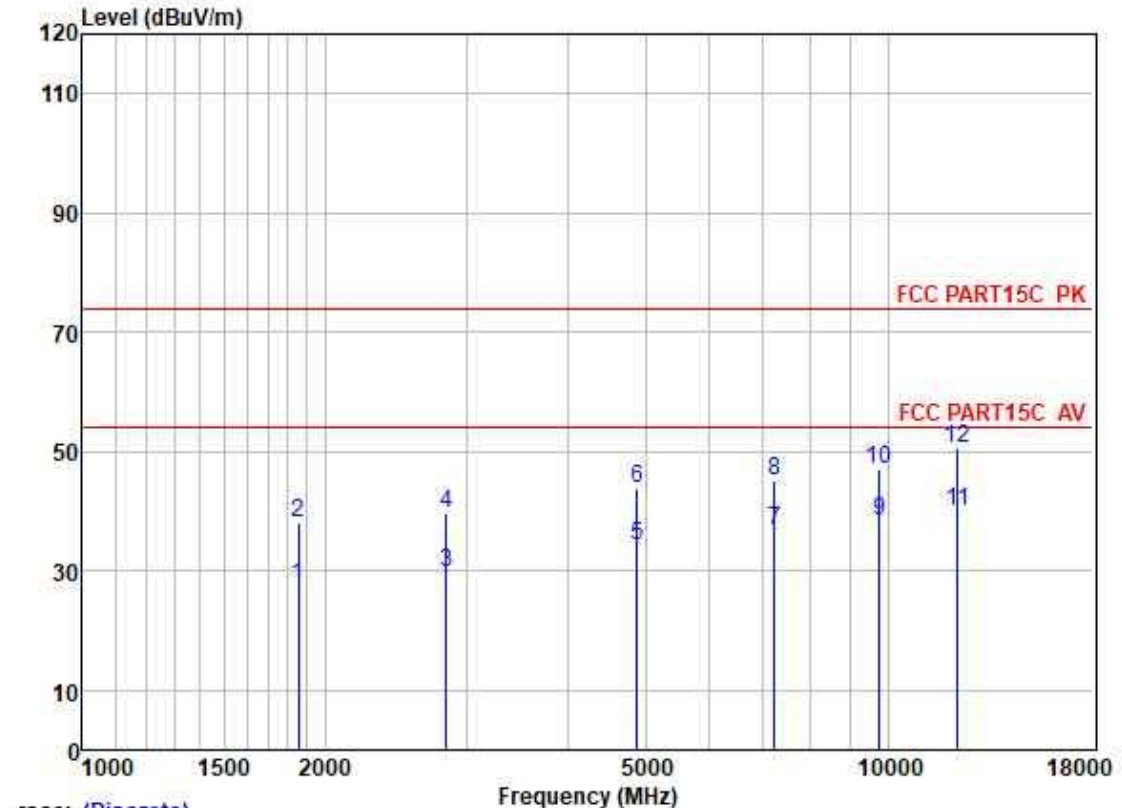
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1354.577	37.38	25.32	2.60	38.04	27.26	54.00	-26.74	VERTICAL	Average
2	1354.577	46.83	25.32	2.60	38.04	36.71	74.00	-37.29	VERTICAL	Peak
3	2871.934	34.86	28.26	3.70	37.15	29.67	54.00	-24.33	VERTICAL	Average
4	2871.934	45.21	28.26	3.70	37.15	40.02	74.00	-33.98	VERTICAL	Peak
5	4804.760	37.05	31.42	5.40	36.94	36.93	54.00	-17.07	VERTICAL	Average
6	4804.760	48.76	31.42	5.40	36.94	48.64	74.00	-25.36	VERTICAL	Peak
7	7206.209	31.76	35.54	5.98	36.93	36.35	54.00	-17.65	VERTICAL	Average
8	7206.209	41.54	35.54	5.98	36.93	46.13	74.00	-27.87	VERTICAL	Peak
9	9608.525	31.33	38.37	7.07	37.08	39.69	54.00	-14.31	VERTICAL	Average
10	9608.525	43.22	38.37	7.07	37.08	51.58	74.00	-22.42	VERTICAL	Peak
11	12010.700	29.72	38.90	8.19	37.20	39.61	54.00	-14.39	VERTICAL	Average
12	12010.700	42.41	38.90	8.19	37.20	52.30	74.00	-21.70	VERTICAL	Peak



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



Trace: (Discrete)

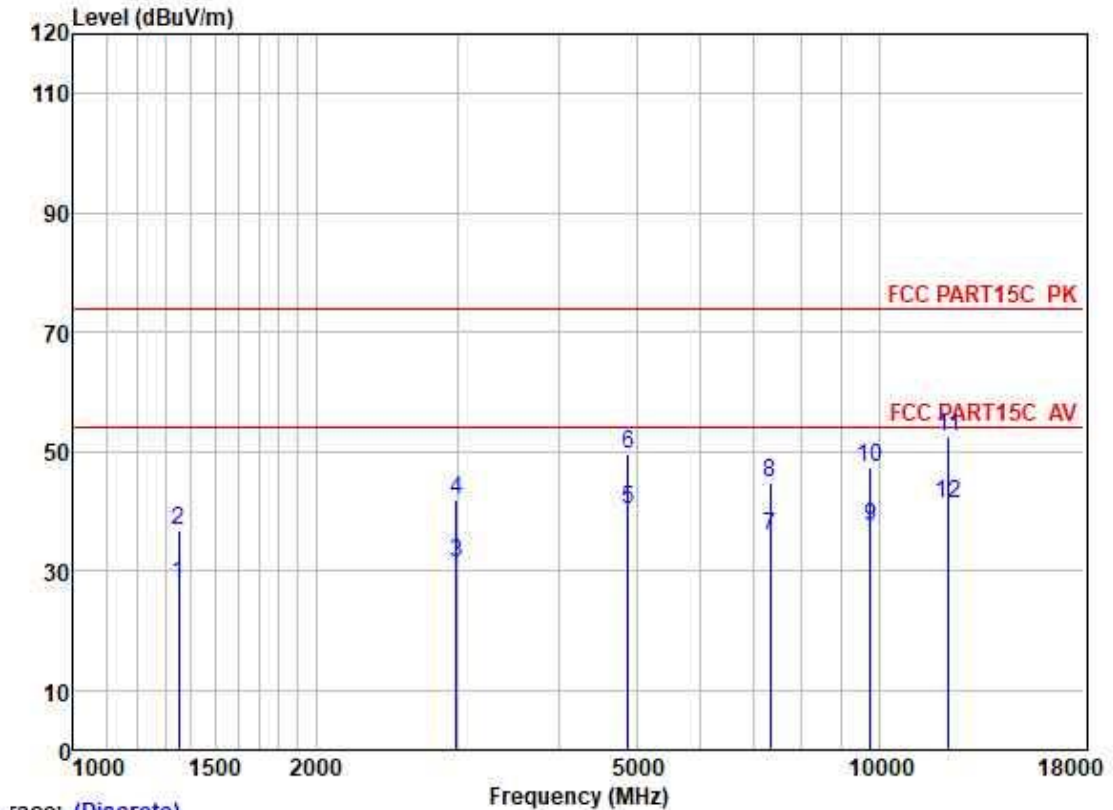
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1856.215	36.09	26.00	2.94	37.54	27.49	54.00	-26.51	HORIZONTAL Average
2	1856.215	46.80	26.00	2.94	37.54	38.20	74.00	-35.80	HORIZONTAL Peak
3	2830.728	35.13	28.20	3.70	37.20	29.83	54.00	-24.17	HORIZONTAL Average
4	2830.728	44.92	28.20	3.70	37.20	39.62	74.00	-34.38	HORIZONTAL Peak
5	4884.181	34.16	31.56	5.52	36.95	34.29	54.00	-19.71	HORIZONTAL Average
6	4884.181	43.63	31.56	5.52	36.95	43.76	74.00	-30.24	HORIZONTAL Peak
7	7236.517	31.90	35.70	6.03	36.93	36.70	54.00	-17.30	HORIZONTAL Average
8	7236.517	40.47	35.70	6.03	36.93	45.27	74.00	-28.73	HORIZONTAL Peak
9	9768.727	30.09	38.53	7.01	37.09	38.54	54.00	-15.46	HORIZONTAL Average
10	9768.727	38.55	38.53	7.01	37.09	47.00	74.00	-27.00	HORIZONTAL Peak
11	12210.540	30.25	38.74	8.08	37.06	40.01	54.00	-13.99	HORIZONTAL Average
12	12210.540	40.84	38.74	8.08	37.06	50.60	74.00	-23.40	HORIZONTAL Peak



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



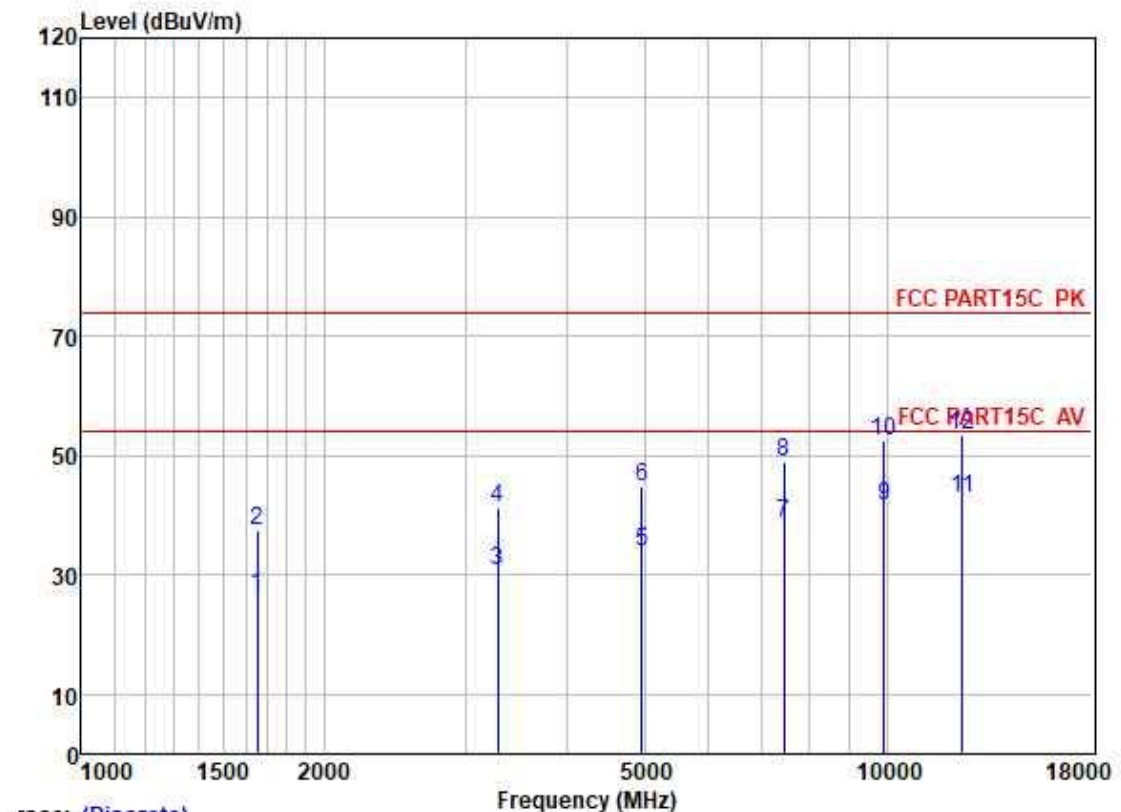
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1350.667	37.84	25.31	2.60	38.04	27.71	54.00	-26.29 VERTICAL	Average
2	1350.667	47.09	25.31	2.60	38.04	36.96	74.00	-37.04 VERTICAL	Peak
3	2990.531	36.29	28.39	3.79	37.08	31.39	54.00	-22.61 VERTICAL	Average
4	2990.531	46.86	28.39	3.79	37.08	41.96	74.00	-32.04 VERTICAL	Peak
5	4884.419	40.17	31.56	5.52	36.95	40.30	54.00	-13.70 VERTICAL	Average
6	4884.419	49.48	31.56	5.52	36.95	49.61	74.00	-24.39 VERTICAL	Peak
7	7326.982	30.65	36.00	6.13	36.92	35.86	54.00	-18.14 VERTICAL	Average
8	7326.982	39.59	36.00	6.13	36.92	44.80	74.00	-29.20 VERTICAL	Peak
9	9768.806	29.13	38.53	7.01	37.09	37.58	54.00	-16.42 VERTICAL	Average
10	9768.806	38.82	38.53	7.01	37.09	47.27	74.00	-26.73 VERTICAL	Peak
11	12210.020	42.84	38.74	8.08	37.06	52.60	74.00	-21.40 VERTICAL	Peak
12	12210.020	31.54	38.74	8.08	37.06	41.30	54.00	-12.70 VERTICAL	Average



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



Trace: (Discrete)

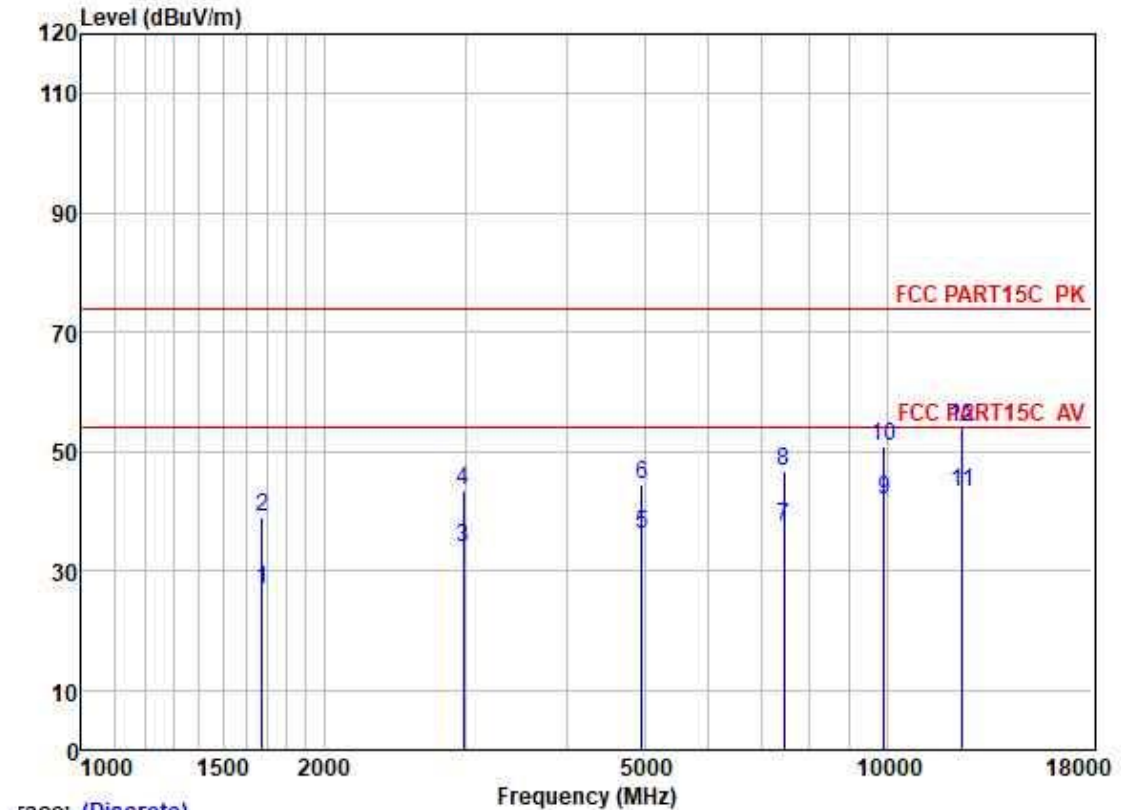
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1653.550	35.85	25.64	2.80	37.61	26.68	54.00	-27.32	HORIZONTAL	Average
2	1653.550	46.66	25.64	2.80	37.61	37.49	74.00	-36.51	HORIZONTAL	Peak
3	3289.821	34.98	28.74	4.05	36.99	30.78	54.00	-23.22	HORIZONTAL	Average
4	3289.821	45.49	28.74	4.05	36.99	41.29	74.00	-32.71	HORIZONTAL	Peak
5	4960.921	33.61	31.65	5.65	36.96	33.95	54.00	-20.05	HORIZONTAL	Average
6	4960.921	44.42	31.65	5.65	36.96	44.76	74.00	-29.24	HORIZONTAL	Peak
7	7440.860	32.99	36.27	6.22	36.92	38.56	54.00	-15.44	HORIZONTAL	Average
8	7440.860	43.26	36.27	6.22	36.92	48.83	74.00	-25.17	HORIZONTAL	Peak
9	9920.150	33.12	38.65	6.96	37.10	41.63	54.00	-12.37	HORIZONTAL	Average
10	9920.150	44.04	38.65	6.96	37.10	52.55	74.00	-21.45	HORIZONTAL	Peak
11	12400.910	33.08	38.57	7.97	36.90	42.72	54.00	-11.28	HORIZONTAL	Average
12	12400.910	43.69	38.57	7.97	36.90	53.33	74.00	-20.67	HORIZONTAL	Peak



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



Trace: (Discrete)

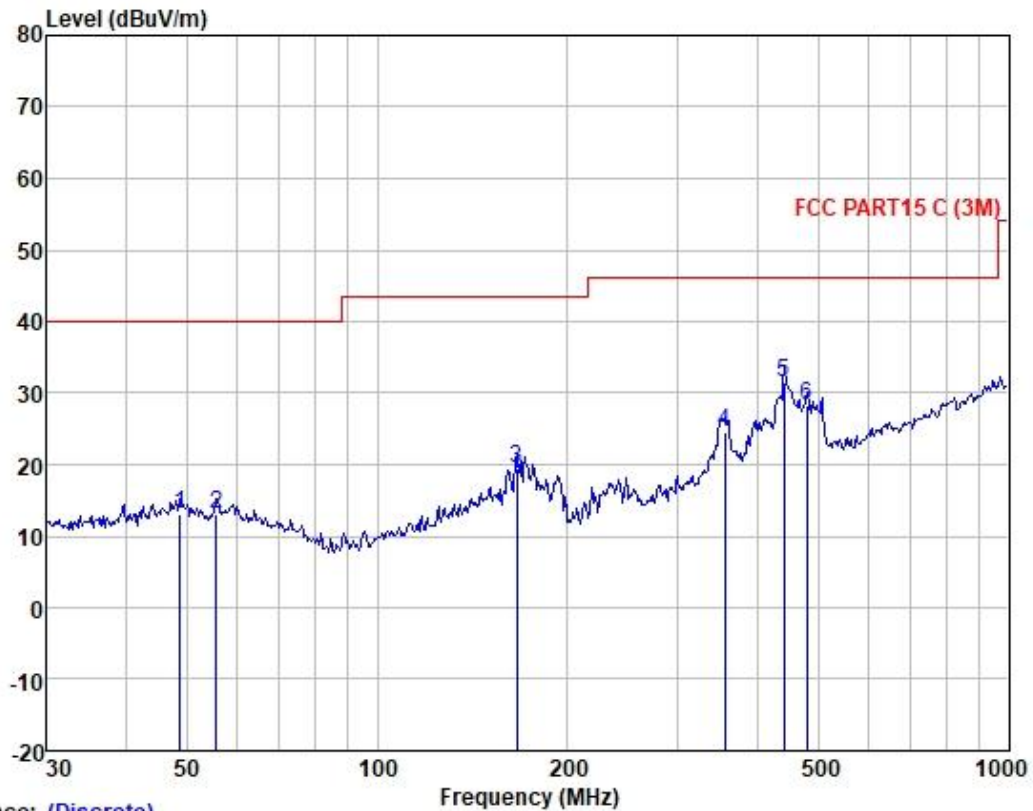
	Freq	ReadAntenna	Cable	Preamp	Limit	Over				
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	35.97	25.68	2.80	37.60	26.85	54.00	-27.15	VERTICAL	Average
2	1677.621	48.19	25.68	2.80	37.60	39.07	74.00	-34.93	VERTICAL	Peak
3	2981.899	38.78	28.38	3.79	37.08	33.87	54.00	-20.13	VERTICAL	Average
4	2981.899	48.48	28.38	3.79	37.08	43.57	74.00	-30.43	VERTICAL	Peak
5	4960.490	35.66	31.65	5.65	36.96	36.00	54.00	-18.00	VERTICAL	Average
6	4960.490	44.13	31.65	5.65	36.96	44.47	74.00	-29.53	VERTICAL	Peak
7	7440.982	31.85	36.27	6.22	36.92	37.42	54.00	-16.58	VERTICAL	Average
8	7440.982	41.18	36.27	6.22	36.92	46.75	74.00	-27.25	VERTICAL	Peak
9	9920.909	33.32	38.65	6.96	37.10	41.83	54.00	-12.17	VERTICAL	Average
10	9920.909	42.39	38.65	6.96	37.10	50.90	74.00	-23.10	VERTICAL	Peak
11	12400.480	33.42	38.57	7.97	36.90	43.06	54.00	-10.94	VERTICAL	Average
12	12400.480	44.43	38.57	7.97	36.90	54.07	74.00	-19.93	VERTICAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low ;



Trace: (Discrete)

Site : SGS
Condition: FCC PART15 C (3M) 3m HORIZONTAL
Job :
Model : GBF-2008-BF
Power :
Test Mode:

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.672	25.20	13.97	1.19	27.17	13.19	40.00	-26.81	HORIZONTAL QP
2	55.609	25.28	13.72	1.28	27.16	13.12	40.00	-26.88	HORIZONTAL QP
3	166.651	30.71	13.37	2.21	26.78	19.51	43.50	-23.99	HORIZONTAL QP
4	355.427	33.77	14.60	3.24	27.07	24.54	46.00	-21.46	HORIZONTAL QP
5	440.196	38.24	17.00	3.89	27.57	31.56	46.00	-14.44	HORIZONTAL QP
6	478.846	34.50	17.57	4.08	27.90	28.25	46.00	-17.75	HORIZONTAL QP

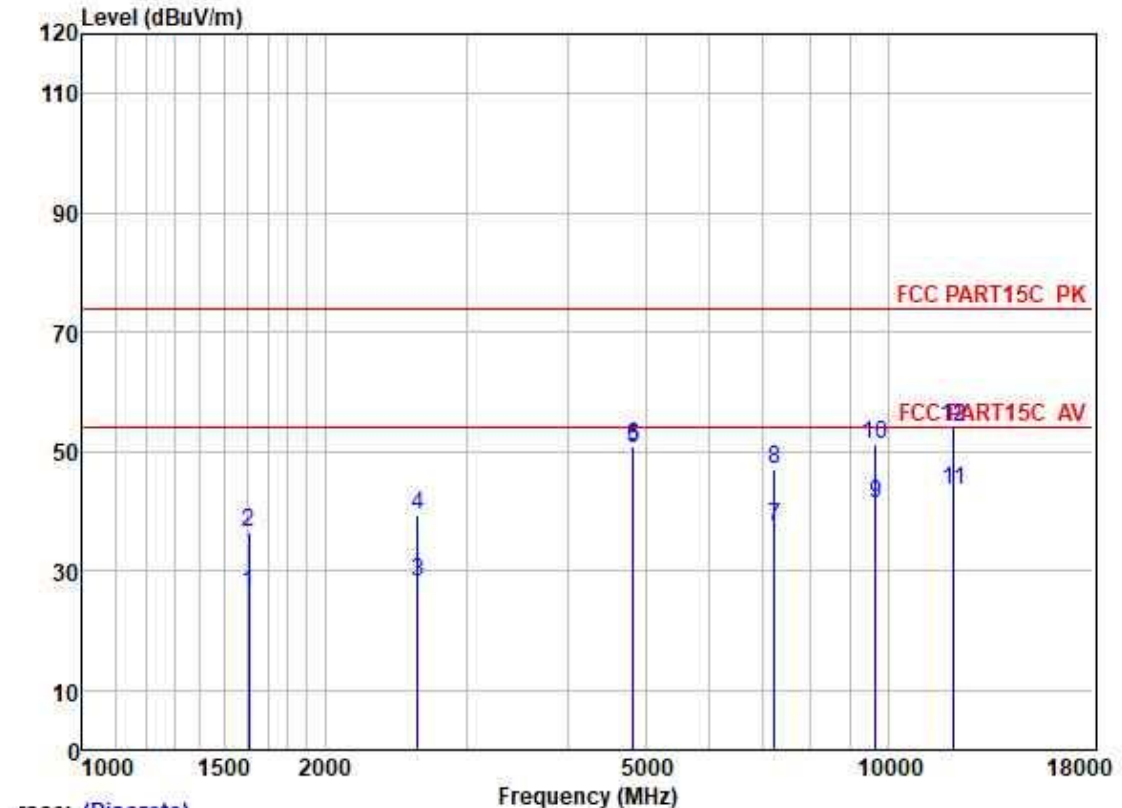


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SGS-CSTC Standards Technical Services Co., Ltd. No. 198 Kazhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

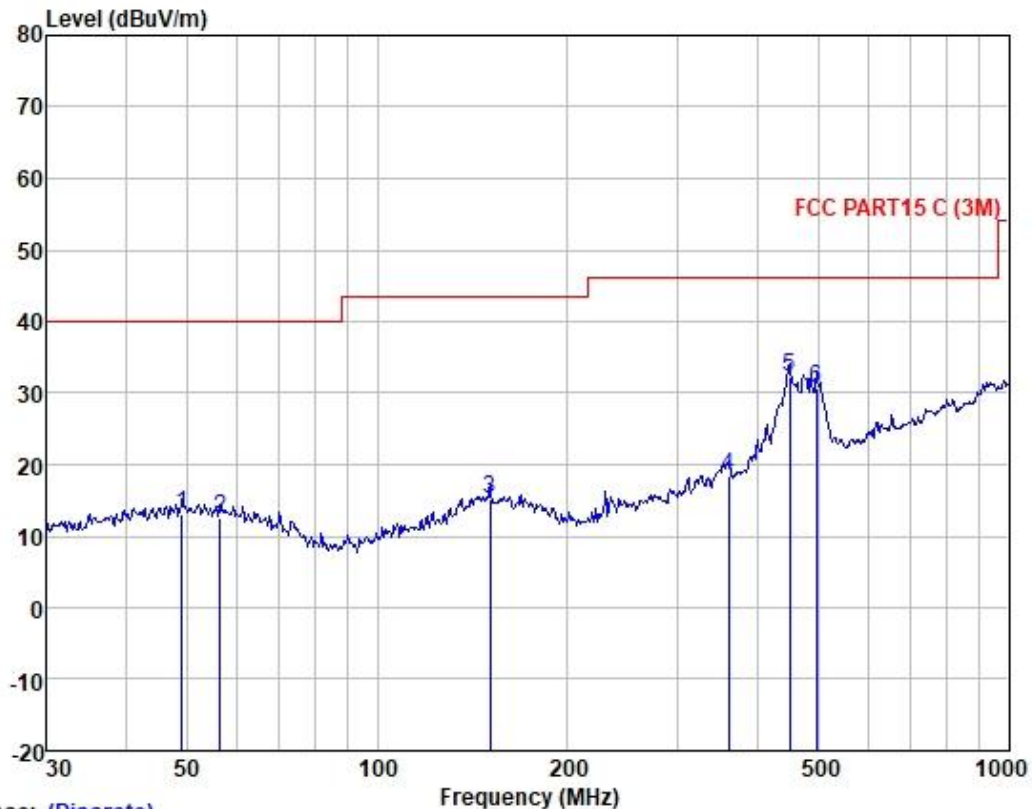
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1611.091	35.58	25.59	2.80	37.64	26.33	54.00	-27.67	HORIZONTAL Average
2	1611.091	45.65	25.59	2.80	37.64	36.40	74.00	-37.60	HORIZONTAL Peak
3	2610.661	34.50	27.65	3.51	37.35	28.31	54.00	-25.69	HORIZONTAL Average
4	2610.661	45.60	27.65	3.51	37.35	39.41	74.00	-34.59	HORIZONTAL Peak
5	4823.922	50.70	31.45	5.42	36.94	50.63	54.00	-3.37	HORIZONTAL Average
6	4823.922	50.95	31.45	5.42	36.94	50.88	74.00	-23.12	HORIZONTAL Peak
7	7236.063	32.54	35.70	6.03	36.93	37.34	54.00	-16.66	HORIZONTAL Average
8	7236.063	42.22	35.70	6.03	36.93	47.02	74.00	-26.98	HORIZONTAL Peak
9	9648.404	32.98	38.40	7.06	37.08	41.36	54.00	-12.64	HORIZONTAL Average
10	9648.404	42.89	38.40	7.06	37.08	51.27	74.00	-22.73	HORIZONTAL Peak
11	12060.900	33.51	38.88	8.17	37.17	43.39	54.00	-10.61	HORIZONTAL Average
12	12060.900	44.18	38.88	8.17	37.17	54.06	74.00	-19.94	HORIZONTAL Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Site : SGS
Condition: FCC PART15 C (3M) 3m VERTICAL
Job :
Model : GBF-2008-BF
Power :
Test Mode:

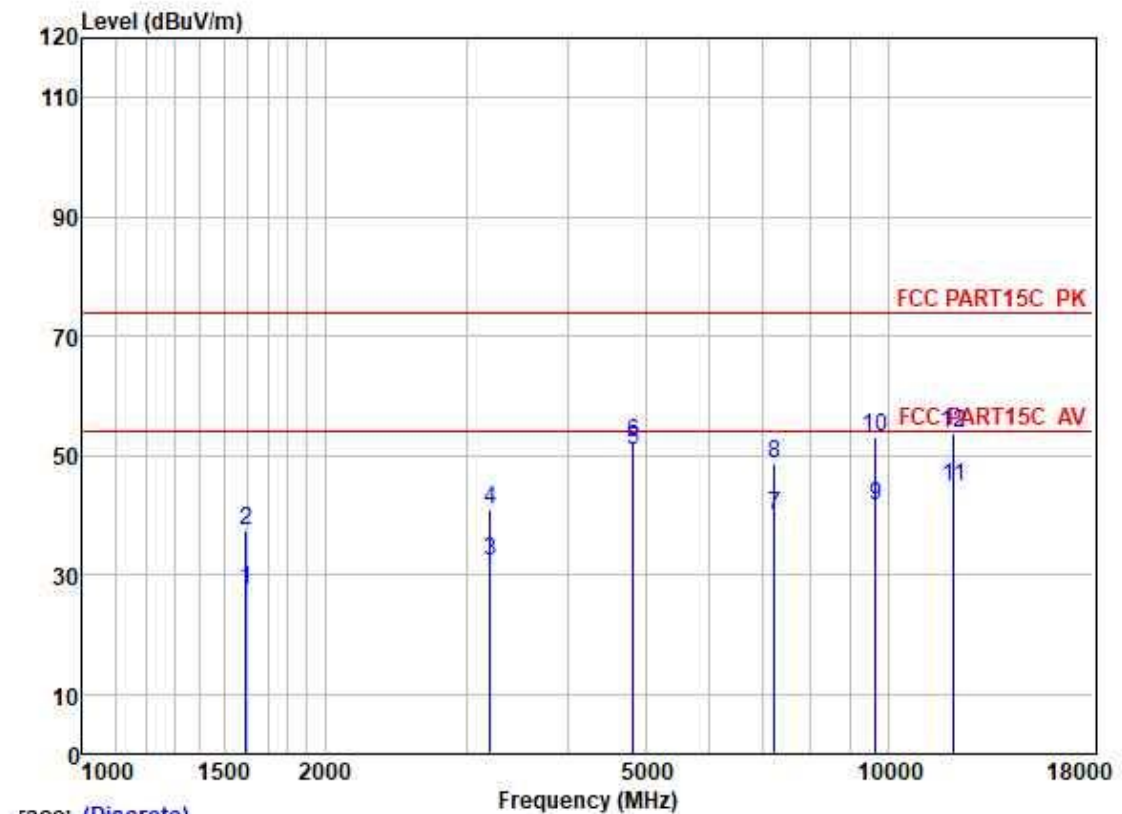
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	49.014	25.20	13.95	1.19	27.17	13.17	40.00	-26.83 VERTICAL	QP
2	56.395	24.66	13.68	1.29	27.16	12.47	40.00	-27.53 VERTICAL	QP
3	151.067	26.25	13.80	2.06	26.83	15.28	43.50	-28.22 VERTICAL	QP
4	360.448	27.38	14.90	3.28	27.11	18.45	46.00	-27.55 VERTICAL	QP
5	449.556	38.61	17.30	4.05	27.70	32.26	46.00	-13.74 VERTICAL	QP
6	495.934	36.81	17.90	4.03	27.97	30.77	46.00	-15.23 VERTICAL	QP



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

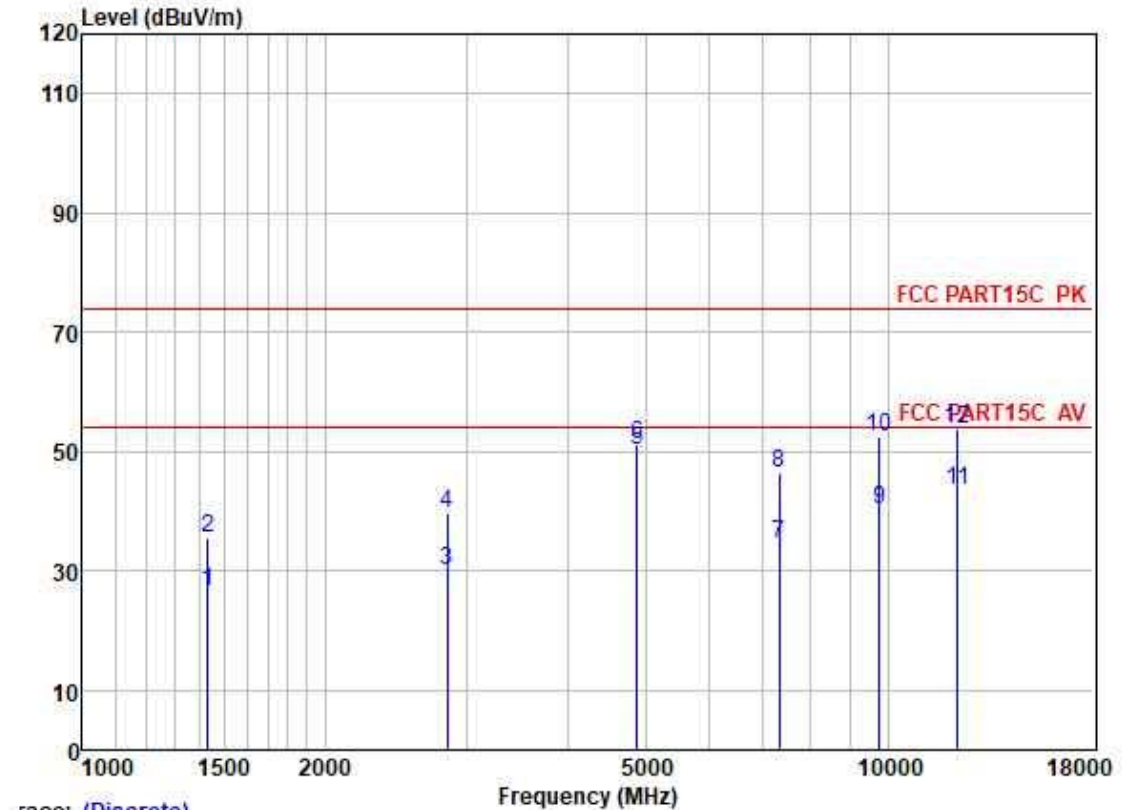
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	36.63	25.58	2.80	37.64	27.37	54.00	-26.63	VERTICAL	Average
2	1597.181	46.71	25.58	2.80	37.64	37.45	74.00	-36.55	VERTICAL	Peak
3	3205.345	36.88	28.60	4.00	37.01	32.47	54.00	-21.53	VERTICAL	Average
4	3205.345	45.38	28.60	4.00	37.01	40.97	74.00	-33.03	VERTICAL	Peak
5	4823.962	51.02	31.45	5.42	36.94	50.95	54.00	-3.05	VERTICAL	Average
6	4823.962	52.26	31.45	5.42	36.94	52.19	74.00	-21.81	VERTICAL	Peak
7	7236.806	35.30	35.70	6.03	36.93	40.10	54.00	-13.90	VERTICAL	Average
8	7236.806	43.93	35.70	6.03	36.93	48.73	74.00	-25.27	VERTICAL	Peak
9	9648.588	33.26	38.40	7.06	37.08	41.64	54.00	-12.36	VERTICAL	Average
10	9648.588	44.82	38.40	7.06	37.08	53.20	74.00	-20.80	VERTICAL	Peak
11	12060.540	34.83	38.88	8.17	37.17	44.71	54.00	-9.29	VERTICAL	Average
12	12060.540	43.84	38.88	8.17	37.17	53.72	74.00	-20.28	VERTICAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

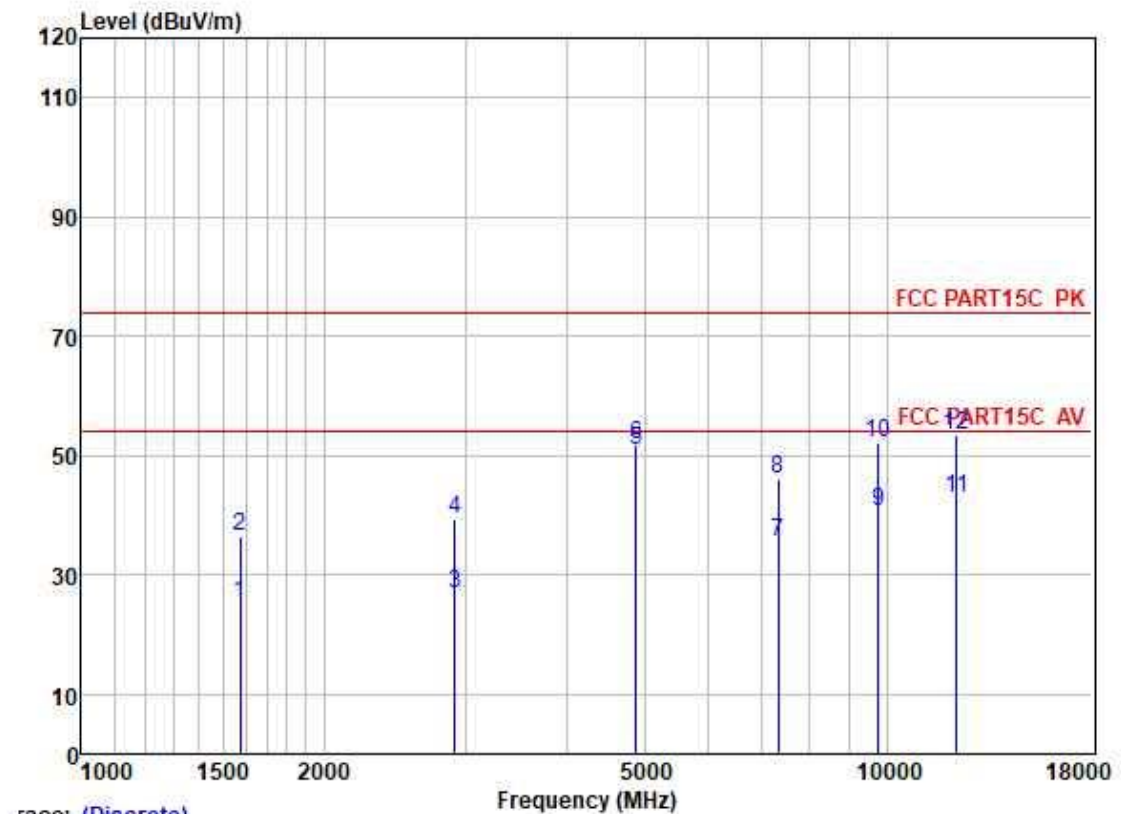
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1431.047	36.40	25.43	2.66	37.85	26.64	54.00	-27.36	VERTICAL Average
2	1431.047	45.27	25.43	2.66	37.85	35.51	74.00	-38.49	VERTICAL Peak
3	2838.921	35.49	28.21	3.70	37.19	30.21	54.00	-23.79	VERTICAL Average
4	2838.921	44.99	28.21	3.70	37.19	39.71	74.00	-34.29	VERTICAL Peak
5	4883.788	50.00	31.56	5.52	36.95	50.13	54.00	-3.87	VERTICAL Average
6	4883.788	50.99	31.56	5.52	36.95	51.12	74.00	-22.88	VERTICAL Peak
7	7326.890	29.20	36.00	6.13	36.92	34.41	54.00	-19.59	VERTICAL Average
8	7326.890	41.22	36.00	6.13	36.92	46.43	74.00	-27.57	VERTICAL Peak
9	9768.588	31.75	38.53	7.01	37.09	40.20	54.00	-13.80	VERTICAL Average
10	9768.588	43.92	38.53	7.01	37.09	52.37	74.00	-21.63	VERTICAL Peak
11	12210.610	33.67	38.74	8.08	37.06	43.43	54.00	-10.57	VERTICAL Average
12	12210.610	43.96	38.74	8.08	37.06	53.72	74.00	-20.28	VERTICAL Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

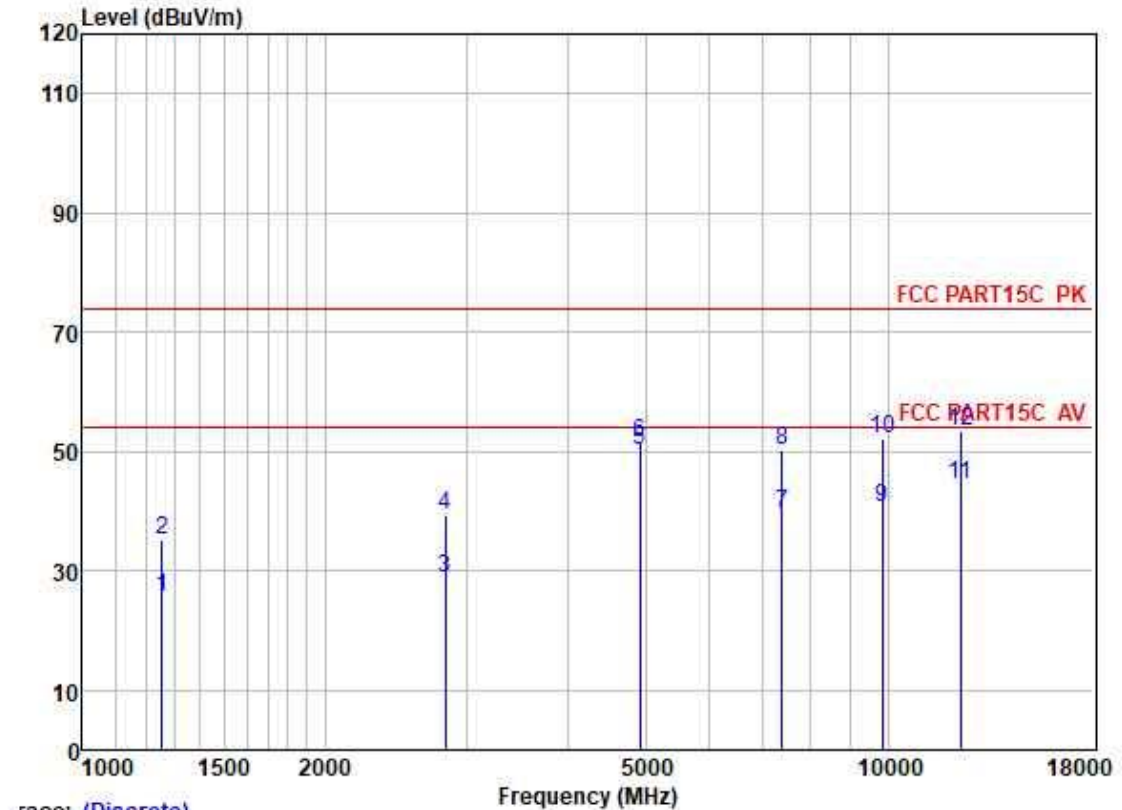
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1574.265	34.58	25.56	2.80	37.66	25.28	54.00	-28.72	HORIZONTAL	Average
2	1574.265	45.66	25.56	2.80	37.66	36.36	74.00	-37.64	HORIZONTAL	Peak
3	2905.331	32.09	28.30	3.71	37.13	26.97	54.00	-27.03	HORIZONTAL	Average
4	2905.331	44.38	28.30	3.71	37.13	39.26	74.00	-34.74	HORIZONTAL	Peak
5	4883.838	50.82	31.56	5.52	36.95	50.95	54.00	-3.05	HORIZONTAL	Average
6	4883.838	51.85	31.56	5.52	36.95	51.98	74.00	-22.02	HORIZONTAL	Peak
7	7326.536	30.32	36.00	6.13	36.92	35.53	54.00	-18.47	HORIZONTAL	Average
8	7326.536	40.89	36.00	6.13	36.92	46.10	74.00	-27.90	HORIZONTAL	Peak
9	9768.540	32.34	38.53	7.01	37.09	40.79	54.00	-13.21	HORIZONTAL	Average
10	9768.540	43.66	38.53	7.01	37.09	52.11	74.00	-21.89	HORIZONTAL	Peak
11	12210.540	33.03	38.74	8.08	37.06	42.79	54.00	-11.21	HORIZONTAL	Average
12	12210.540	43.75	38.74	8.08	37.06	53.51	74.00	-20.49	HORIZONTAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

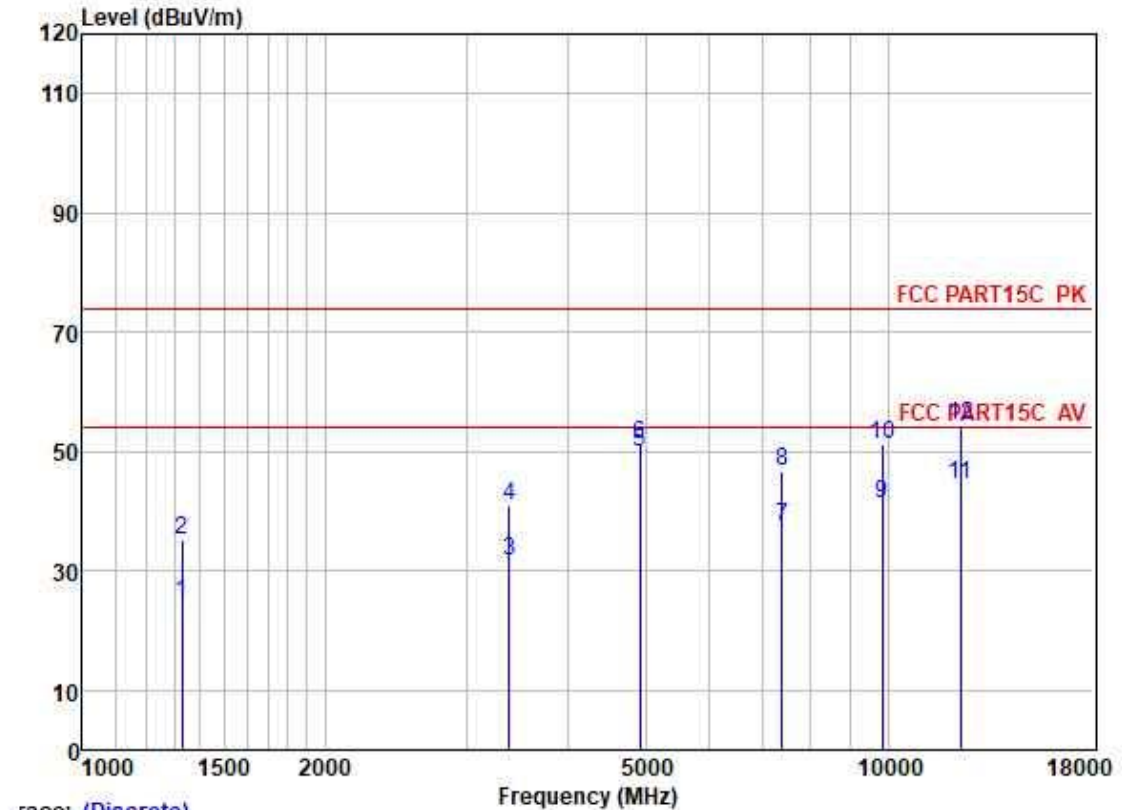
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1256.512	36.47	25.05	2.38	38.15	25.75	54.00	-28.25	HORIZONTAL Average
2	1256.512	45.93	25.05	2.38	38.15	35.21	74.00	-38.79	HORIZONTAL Peak
3	2822.558	34.17	28.18	3.70	37.21	28.84	54.00	-25.16	HORIZONTAL Average
4	2822.558	44.81	28.18	3.70	37.21	39.48	74.00	-34.52	HORIZONTAL Peak
5	4924.026	49.93	31.62	5.60	36.95	50.20	54.00	-3.80	HORIZONTAL Average
6	4924.026	51.19	31.62	5.60	36.95	51.46	74.00	-22.54	HORIZONTAL Peak
7	7386.788	34.32	36.17	6.19	36.92	39.76	54.00	-14.24	HORIZONTAL Average
8	7386.788	44.68	36.17	6.19	36.92	50.12	74.00	-23.88	HORIZONTAL Peak
9	9848.530	32.22	38.58	6.99	37.09	40.70	54.00	-13.30	HORIZONTAL Average
10	9848.530	43.68	38.58	6.99	37.09	52.16	74.00	-21.84	HORIZONTAL Peak
11	12310.700	34.79	38.63	8.01	36.97	44.46	54.00	-9.54	HORIZONTAL Average
12	12310.700	43.62	38.63	8.01	36.97	53.29	74.00	-20.71	HORIZONTAL Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over				
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	34.71	25.28	2.60	38.07	24.52	54.00	-29.48	VERTICAL	Average
2	1331.288	45.54	25.28	2.60	38.07	35.35	74.00	-38.65	VERTICAL	Peak
3	3386.297	35.84	28.83	4.10	36.97	31.80	54.00	-22.20	VERTICAL	Average
4	3386.297	45.08	28.83	4.10	36.97	41.04	74.00	-32.96	VERTICAL	Peak
5	4923.826	49.81	31.62	5.60	36.95	50.08	54.00	-3.92	VERTICAL	Average
6	4923.826	51.04	31.62	5.60	36.95	51.31	74.00	-22.69	VERTICAL	Peak
7	7386.026	32.09	36.17	6.19	36.92	37.53	54.00	-16.47	VERTICAL	Average
8	7386.026	41.39	36.17	6.19	36.92	46.83	74.00	-27.17	VERTICAL	Peak
9	9848.818	32.85	38.58	6.99	37.09	41.33	54.00	-12.67	VERTICAL	Average
10	9848.818	42.84	38.58	6.99	37.09	51.32	74.00	-22.68	VERTICAL	Peak
11	12310.910	34.97	38.63	8.01	36.97	44.64	54.00	-9.36	VERTICAL	Average
12	12310.910	44.80	38.63	8.01	36.97	54.47	74.00	-19.53	VERTICAL	Peak



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8 Appendix

Appendix 15.247

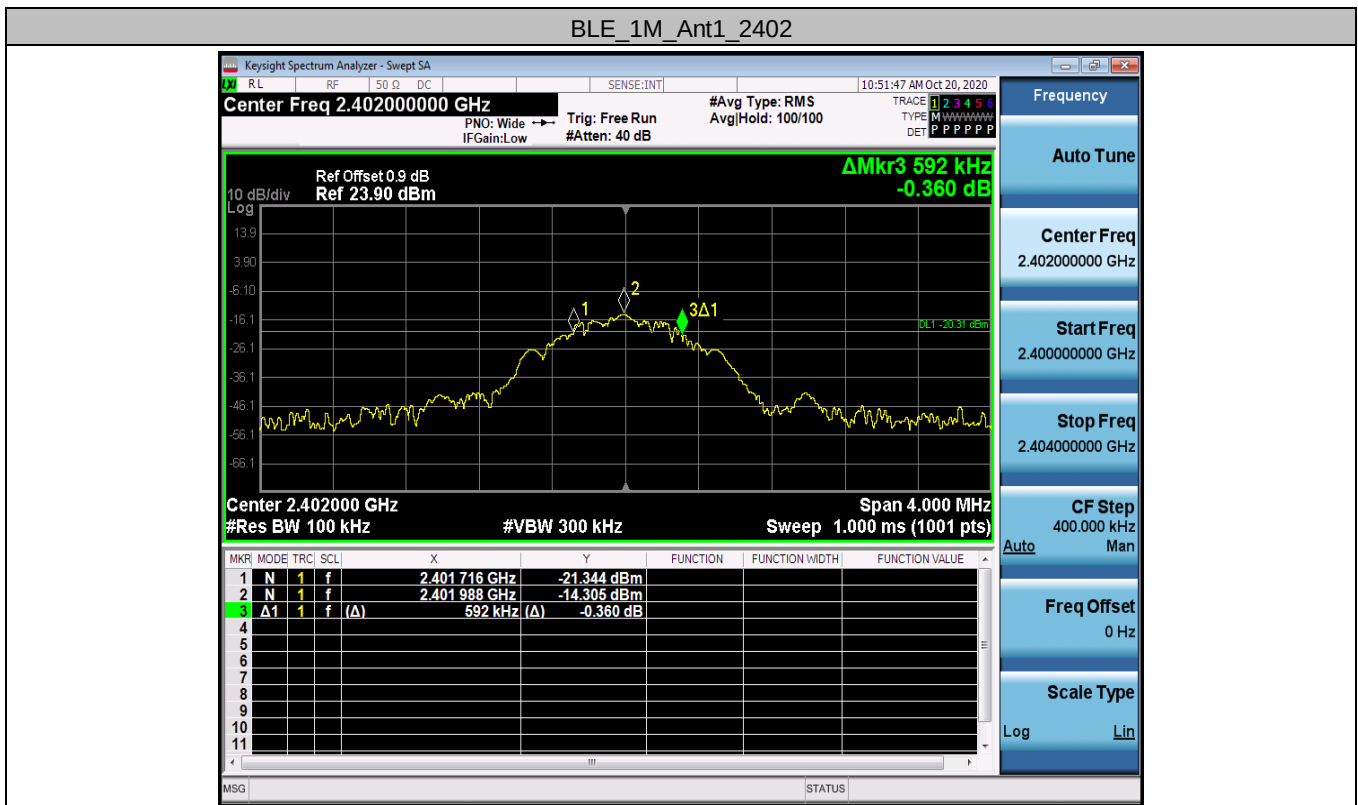
Cable Loss= 0.9dB

8.1 Appendix A: DTS Bandwidth

8.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.592	2401.716	2402.308	0.5	PASS
		2440	0.664	2439.656	2440.320	0.5	PASS
		2480	0.684	2479.644	2480.328	0.5	PASS
11B		2412	9.560	2407.480	2417.040	0.5	PASS
		2442	10.080	2436.960	2447.040	0.5	PASS
		2462	10.120	2456.920	2467.040	0.5	PASS

8.1.2 Test Graphs



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

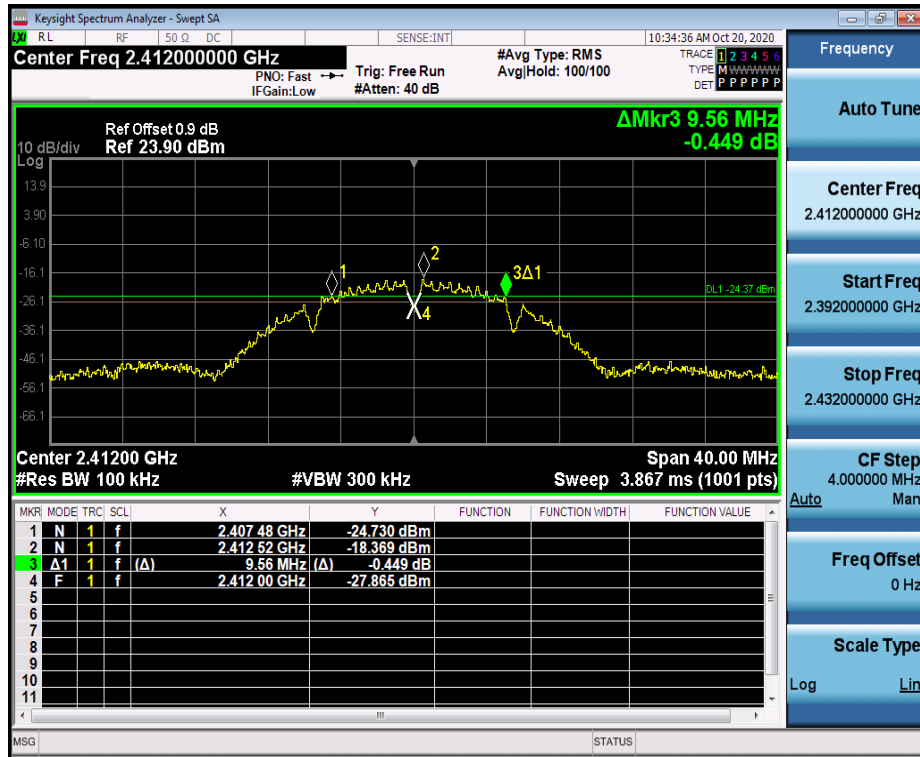


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11B_Ant1_2412



11B_Ant1_2442



11B_Ant1_2462

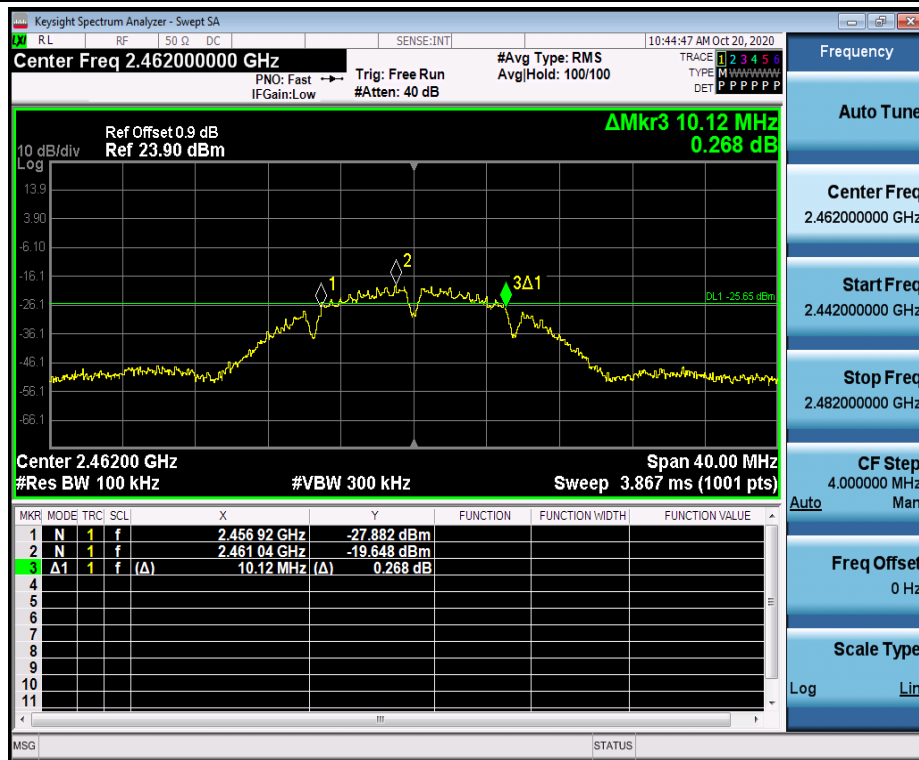


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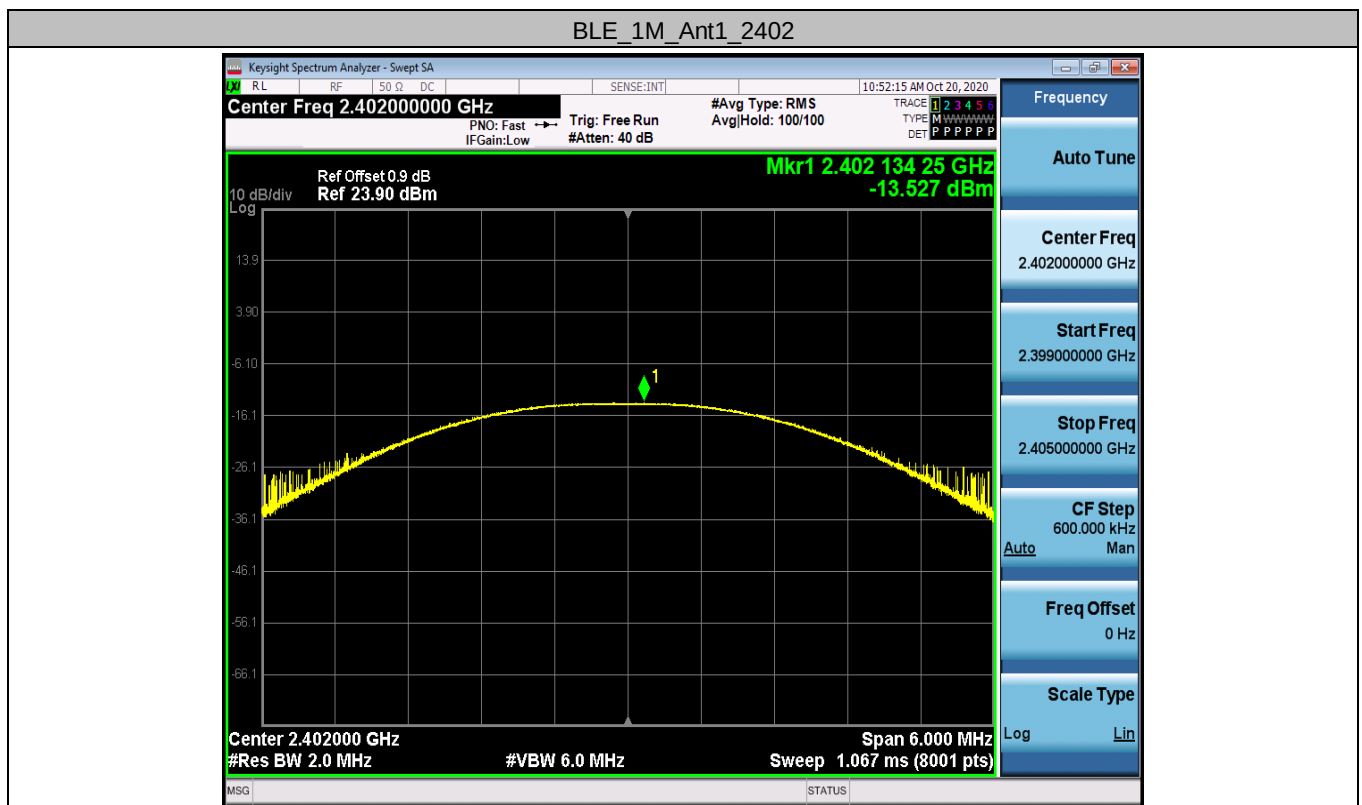
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8.2 Appendix B: Maximum conducted output power

8.2.1 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	-13.53	<=30	PASS
		2440	-13.75	<=30	PASS
		2480	-14.07	<=30	PASS
11B		2412	-8.34	<=30	PASS
		2442	-9.36	<=30	PASS
		2462	-9.99	<=30	PASS

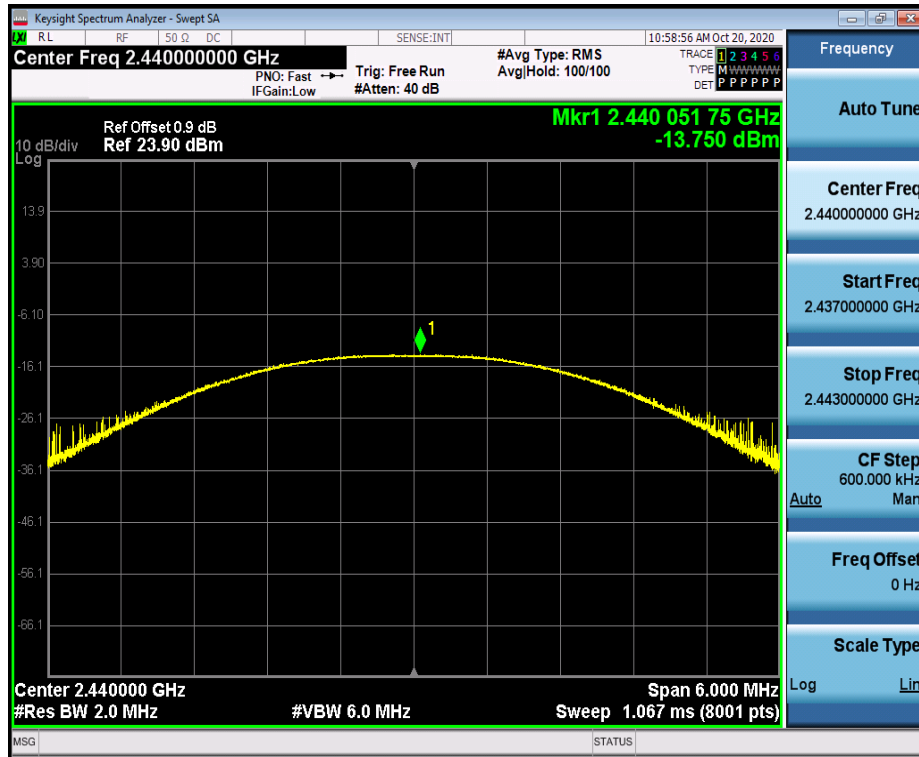
8.2.2 Test Graphs



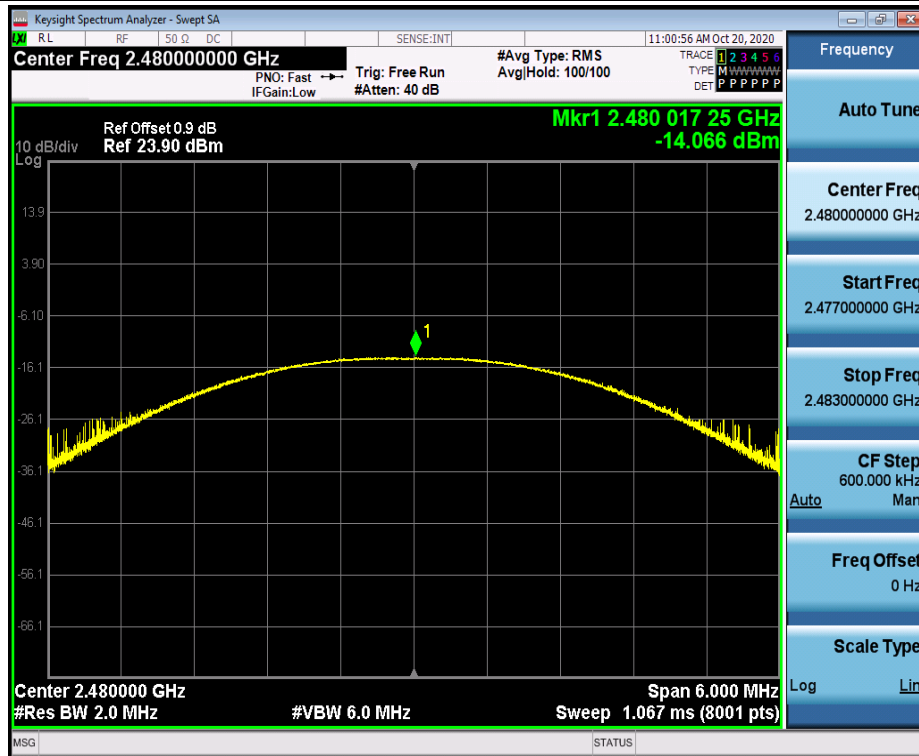
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BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



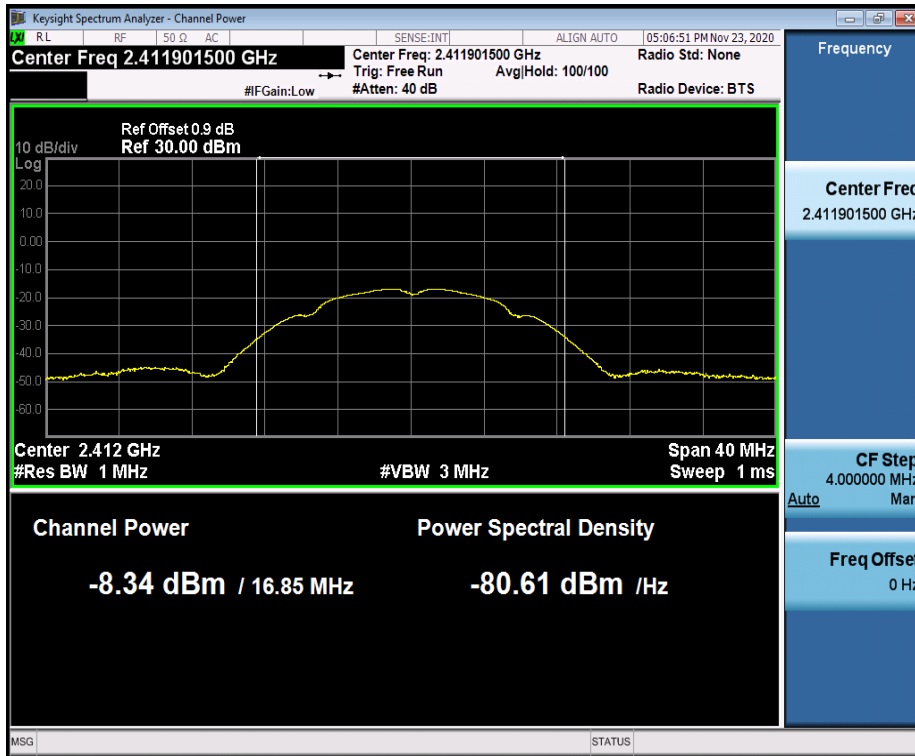
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11B_Ant1_2412



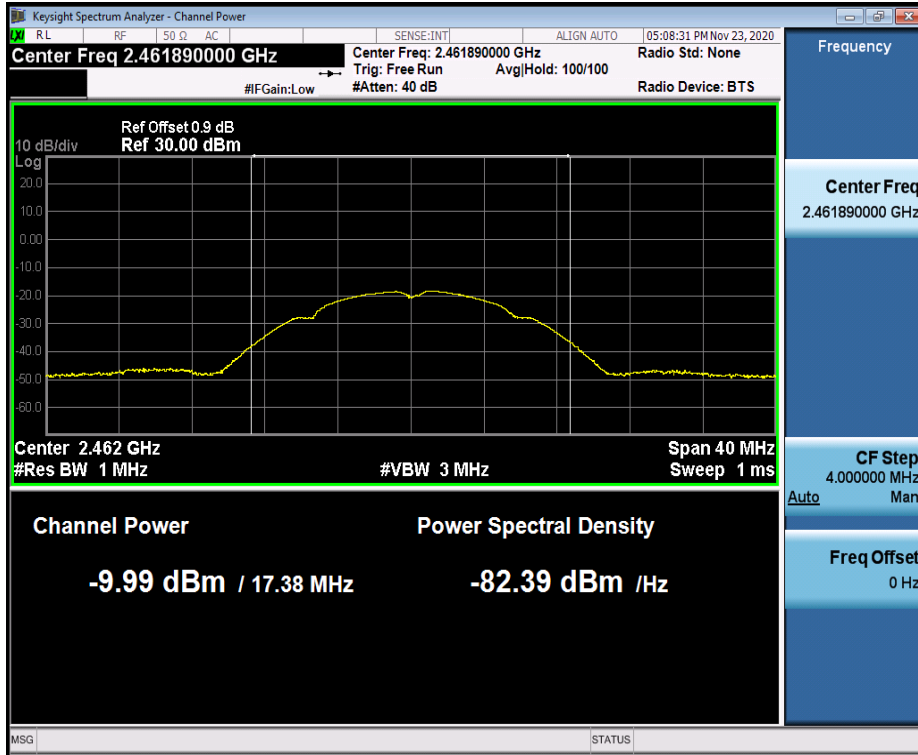
11B_Ant1_2442



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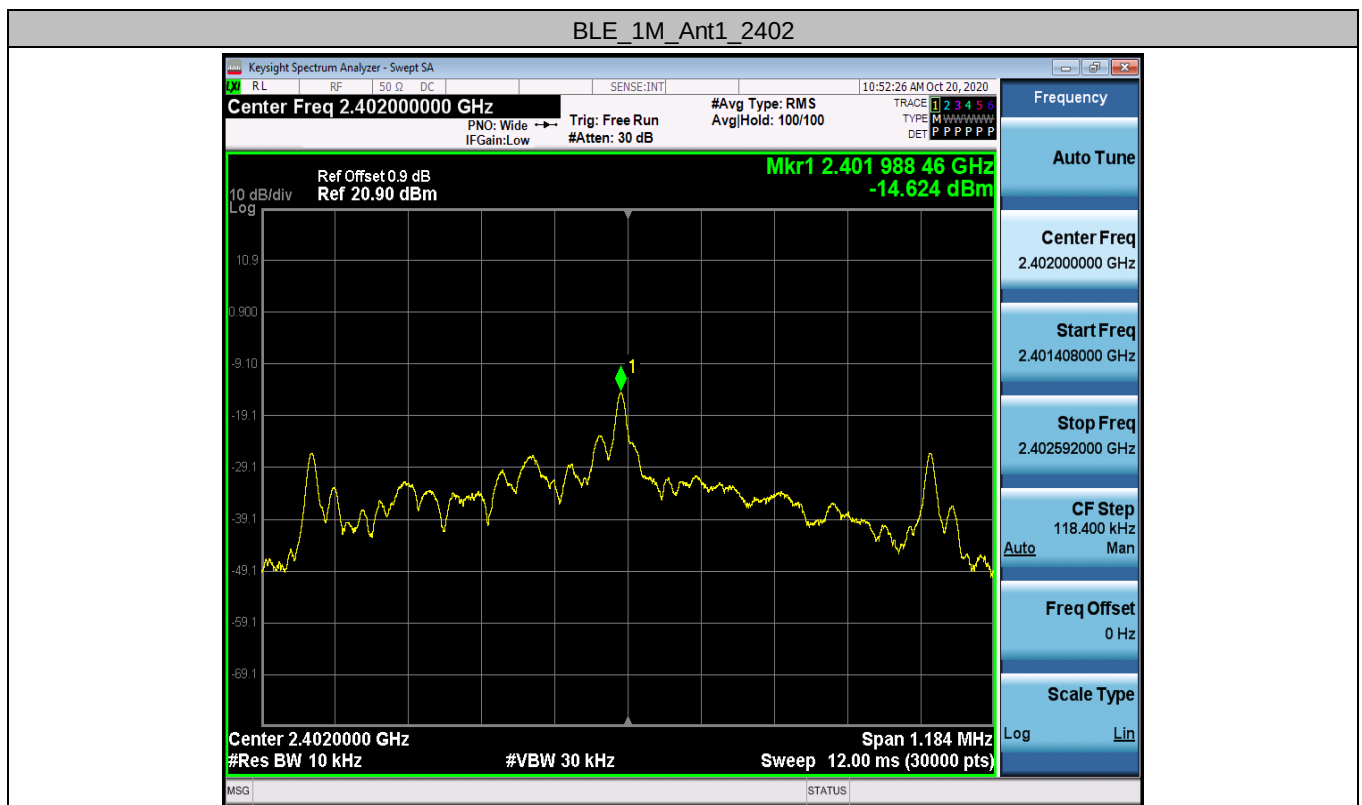
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8.3 Appendix C: Maximum power spectral density

8.3.1 Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-14.62	<=8	PASS
		2440	-14.83	<=8	PASS
		2480	-15.22	<=8	PASS
11B		2412	-34.00	<=8	PASS
		2442	-33.99	<=8	PASS
		2462	-34.96	<=8	PASS

8.3.2 Test Graphs



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BLE_1M_Ant1_2440



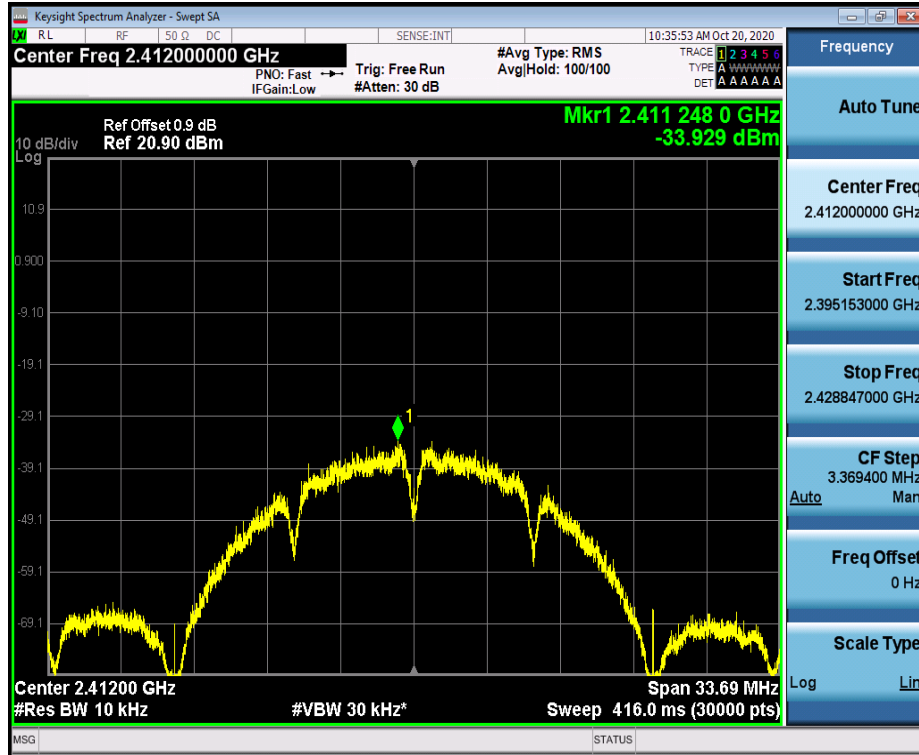
BLE_1M_Ant1_2480



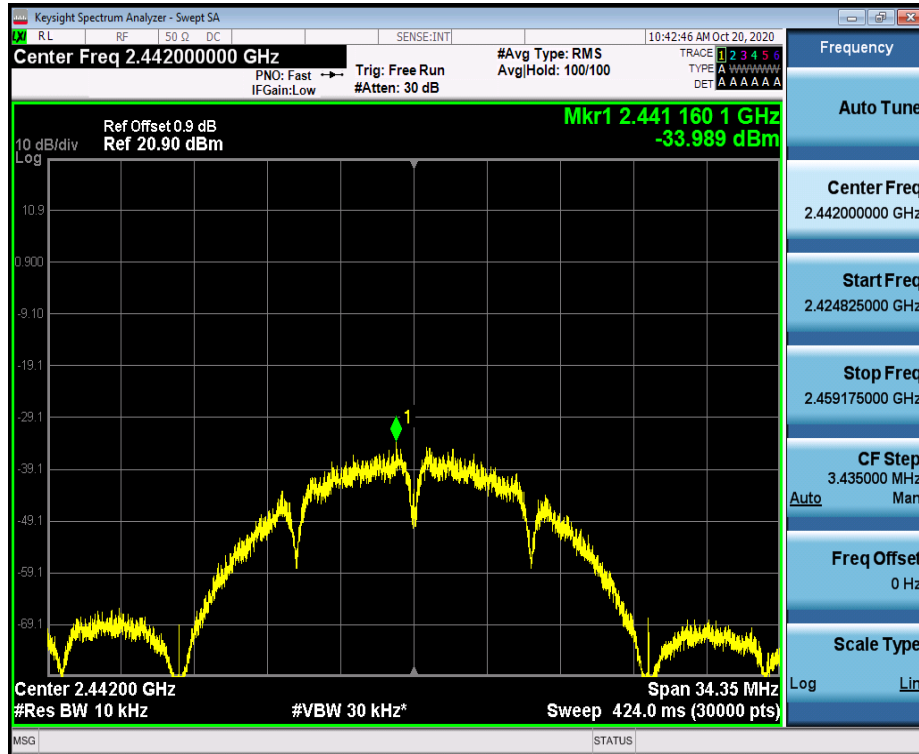
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11B_Ant1_2412



11B_Ant1_2442

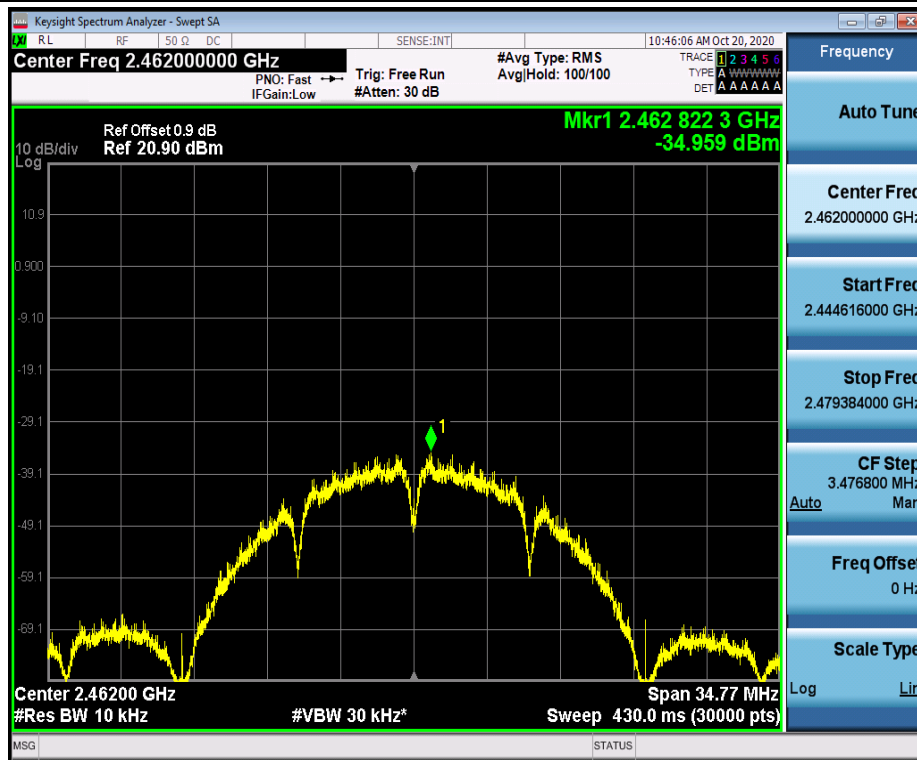


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8.4 Appendix D: Band edge measurements

8.4.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-14.04	-51.40	<=-34.04	PASS
		High	2480	-14.48	-55.99	<=-34.48	PASS
11B		Low	2412	-18.57	-48.63	<=-48.57	PASS
		High	2462	-19.62	-57.31	<=-49.62	PASS

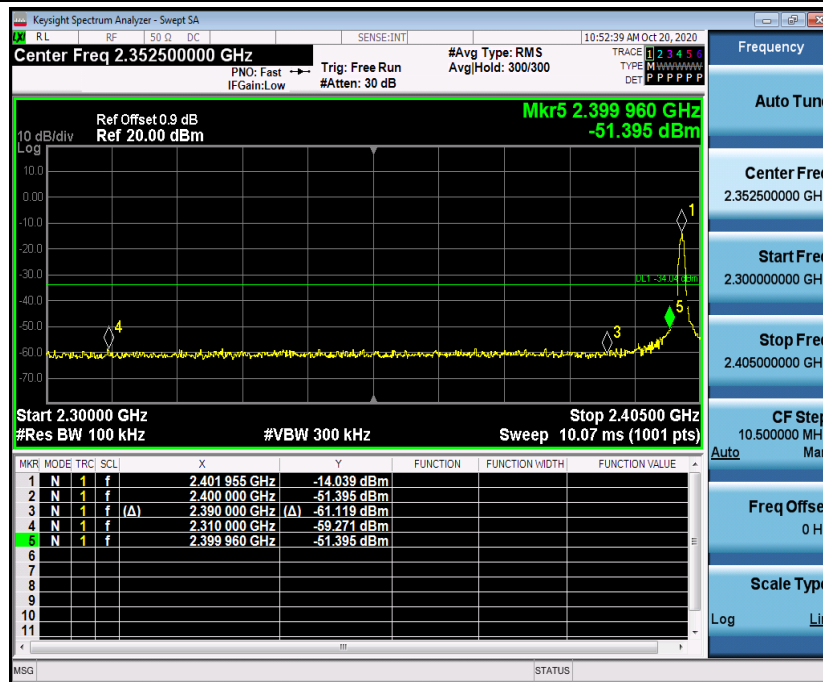


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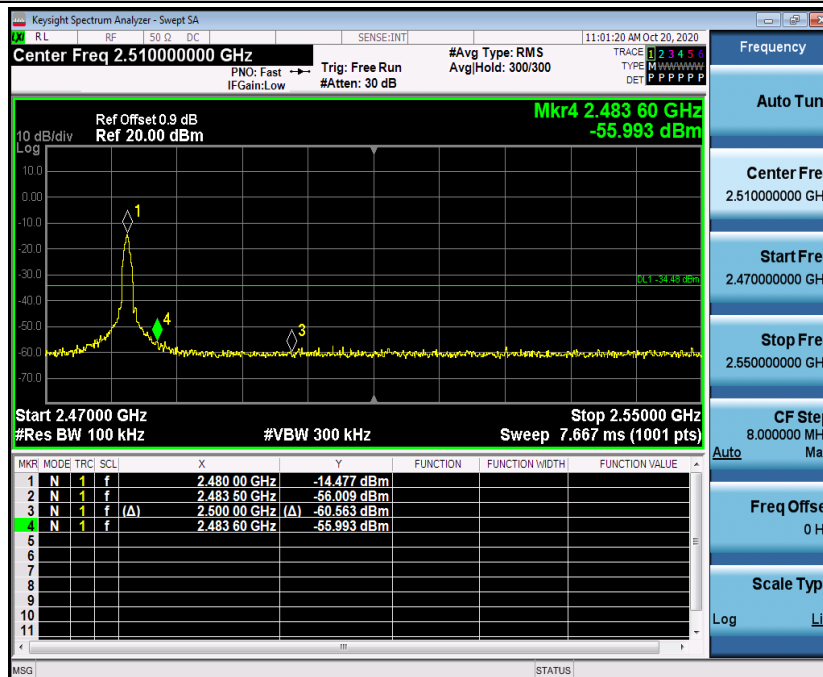
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8.4.2 Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



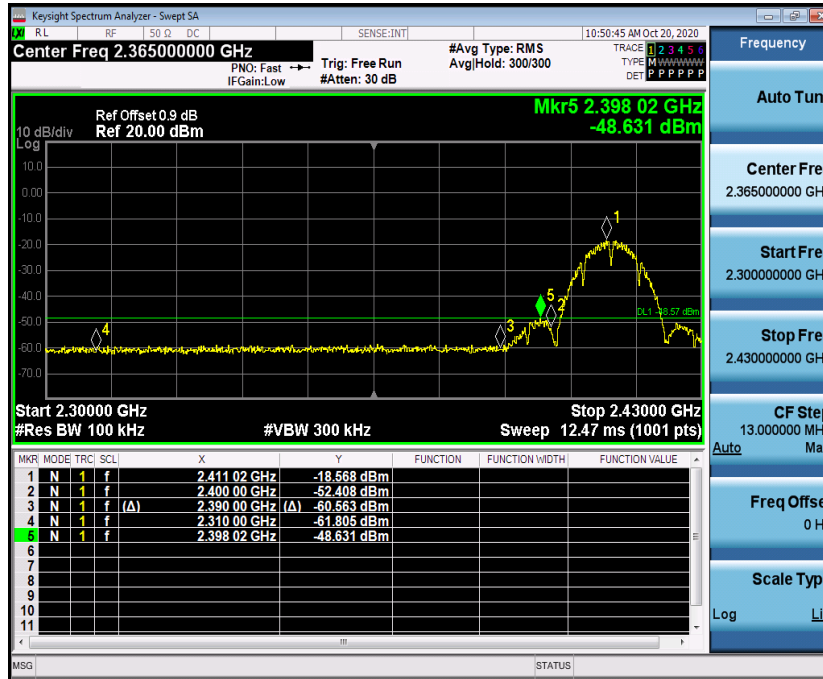
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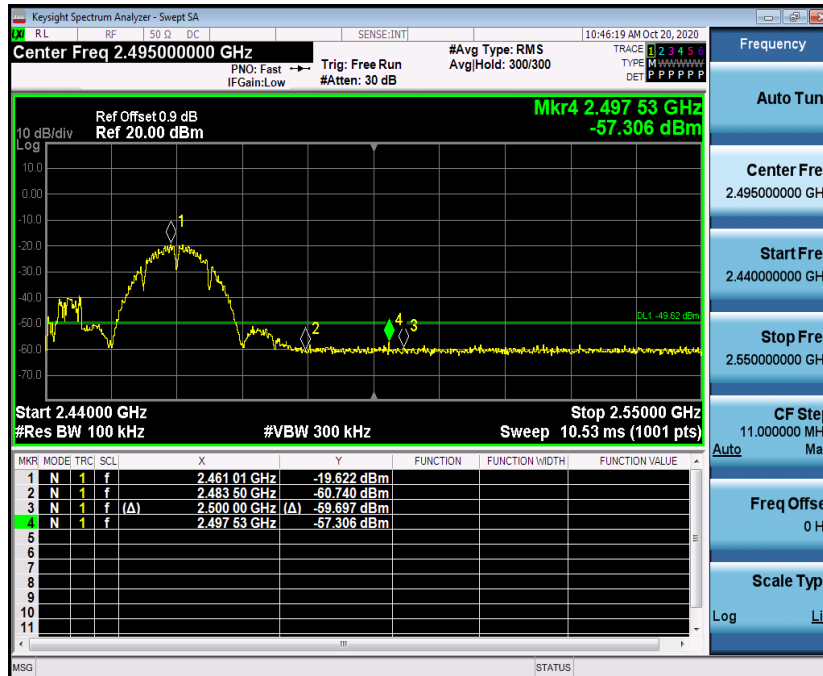
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11B_Ant1_Low_2412



11B_Ant1_High_2462



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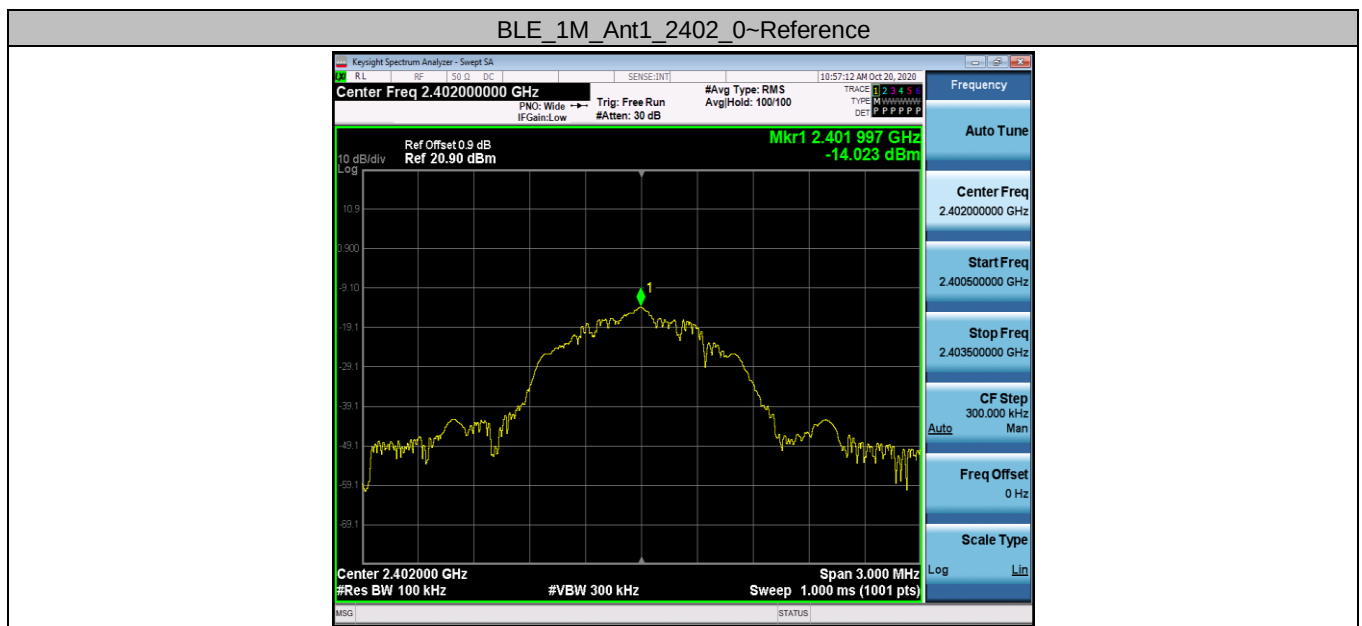
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8.5 Appendix E: Conducted Spurious Emission

8.5.1 Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-14.02	-14.02	---	PASS
			30~1000	30~1000	-70.881	<=-34.023	PASS
			1000~26500	1000~26500	-60.999	<=-34.023	PASS
		2440	Reference	-14.32	-14.32	---	PASS
			30~1000	30~1000	-69.44	<=-34.319	PASS
			1000~26500	1000~26500	-60.315	<=-34.319	PASS
		2480	Reference	-14.79	-14.79	---	PASS
			30~1000	30~1000	-69.172	<=-34.789	PASS
			1000~26500	1000~26500	-58.421	<=-34.789	PASS
11B		2412	Reference	-18.37	-18.37	---	PASS
			30~1000	30~1000	-70.52	<=-38.374	PASS
			1000~26500	1000~26500	-52.124	<=-38.374	PASS
		2442	Reference	-19.29	-19.29	---	PASS
			30~1000	30~1000	-70.436	<=-39.286	PASS
			1000~26500	1000~26500	-54.009	<=-39.286	PASS
		2462	Reference	-19.59	-19.59	---	PASS
			30~1000	30~1000	-70.736	<=-39.592	PASS
			1000~26500	1000~26500	-44.627	<=-39.592	PASS

8.5.2 Test Graphs

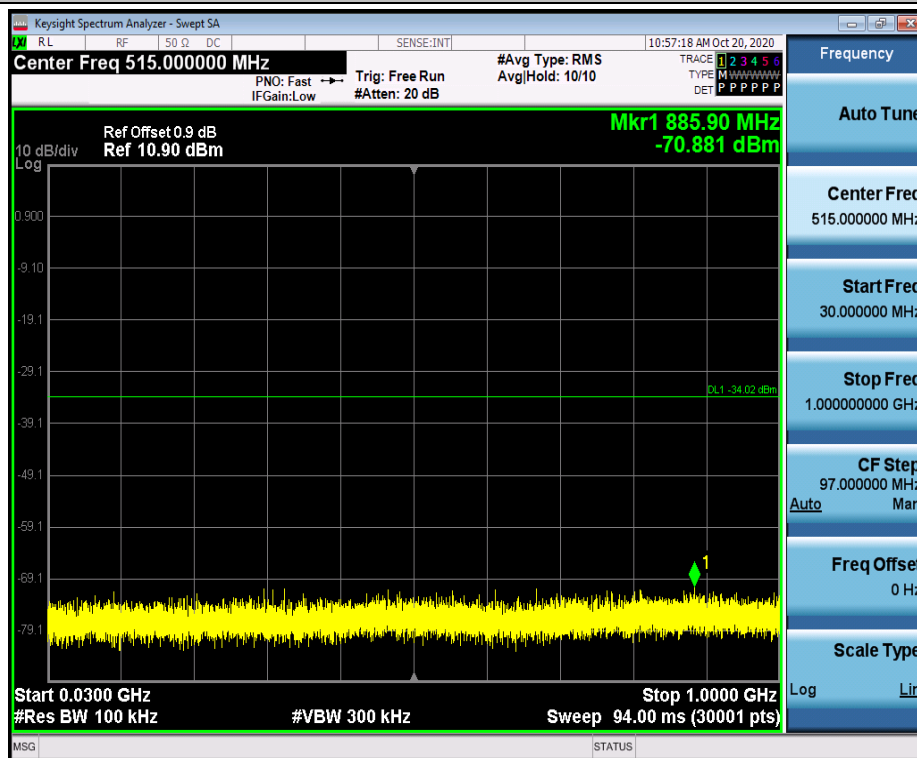


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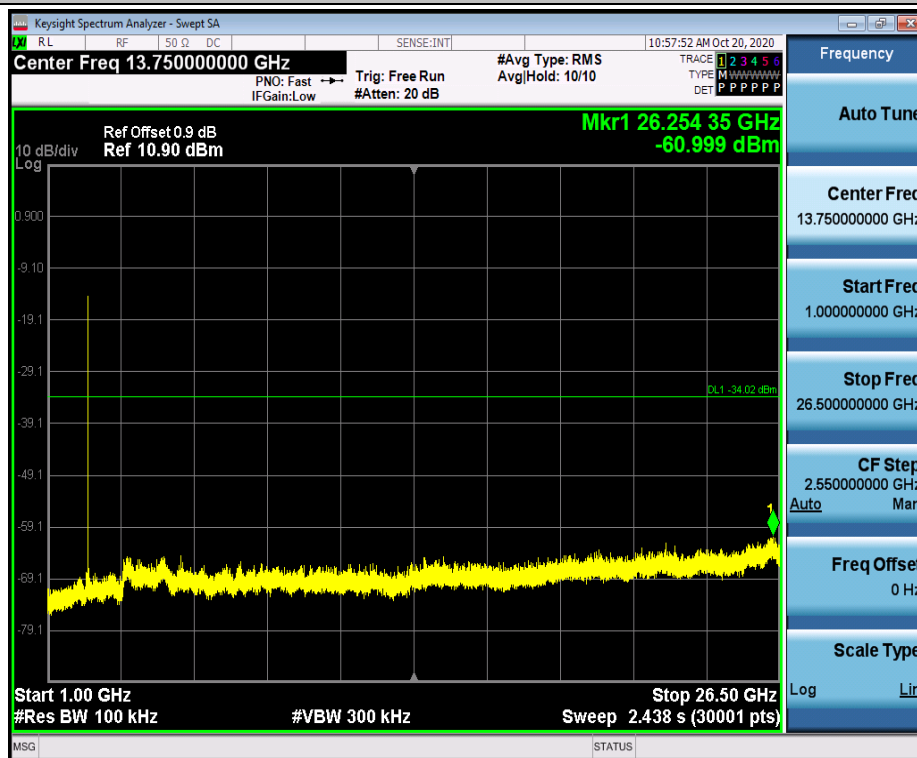
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BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



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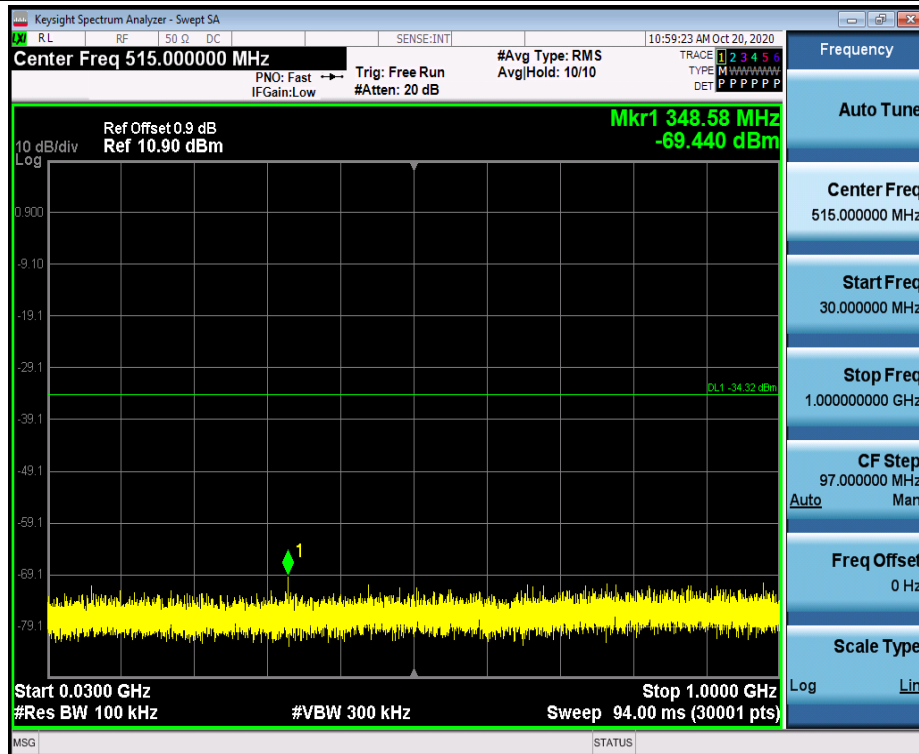
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BLE_1M_Ant1_2440_0~Reference



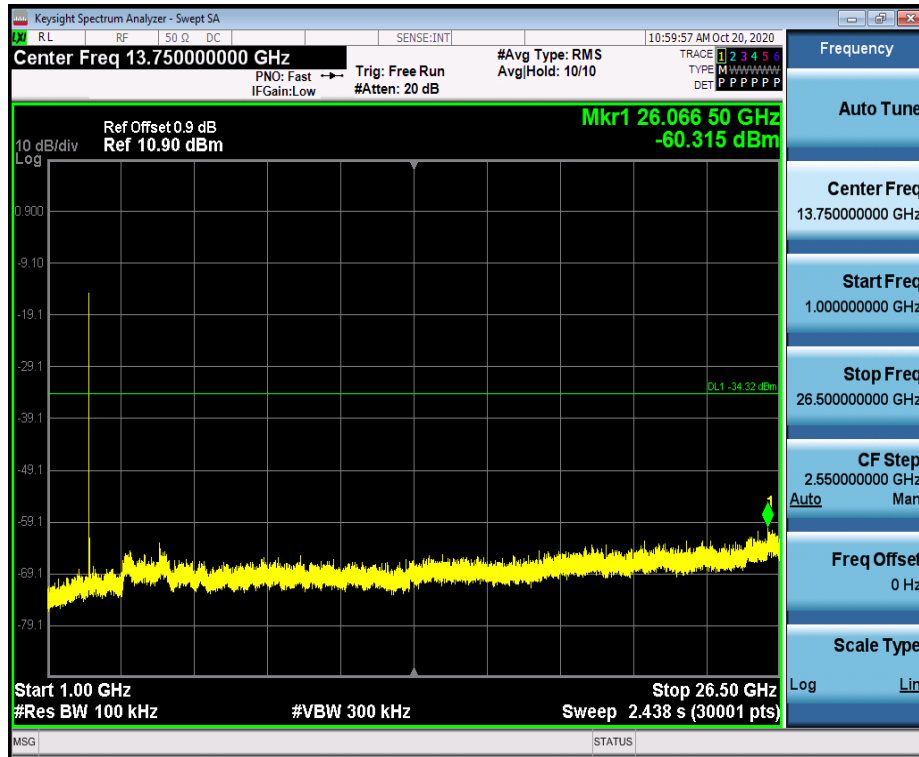
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BLE_1M_Ant1_2440_1000~26500



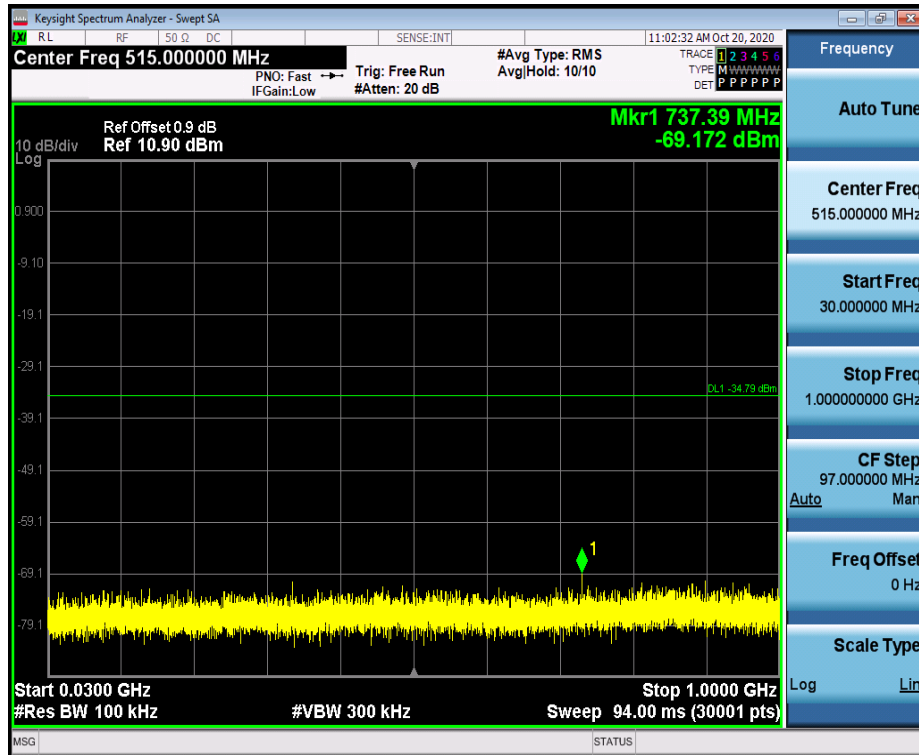
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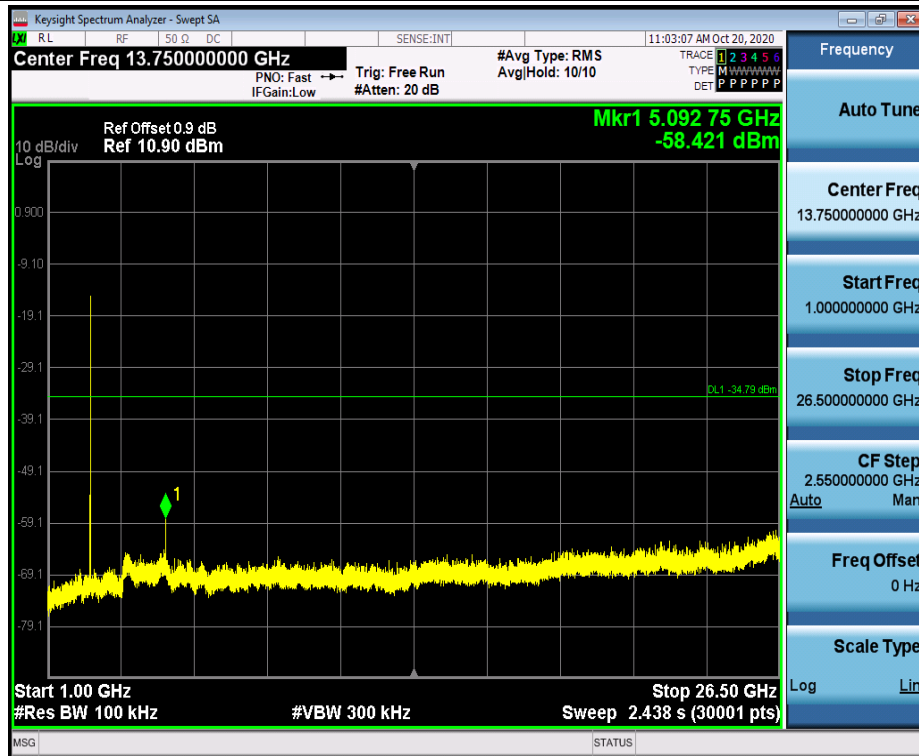
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



11B_Ant1_2412_0~Reference

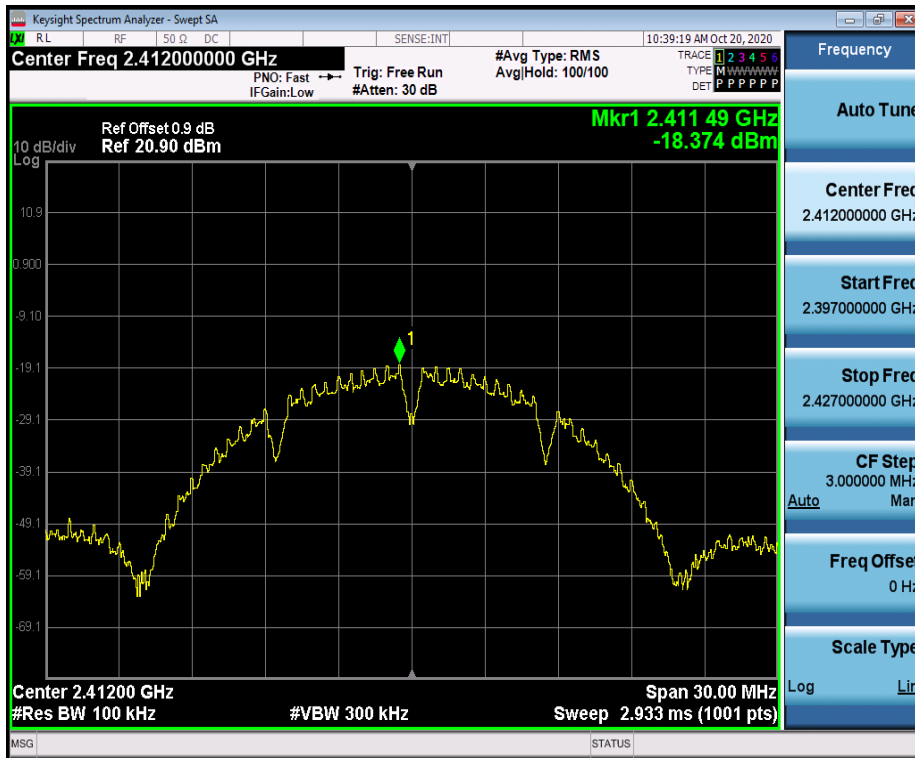


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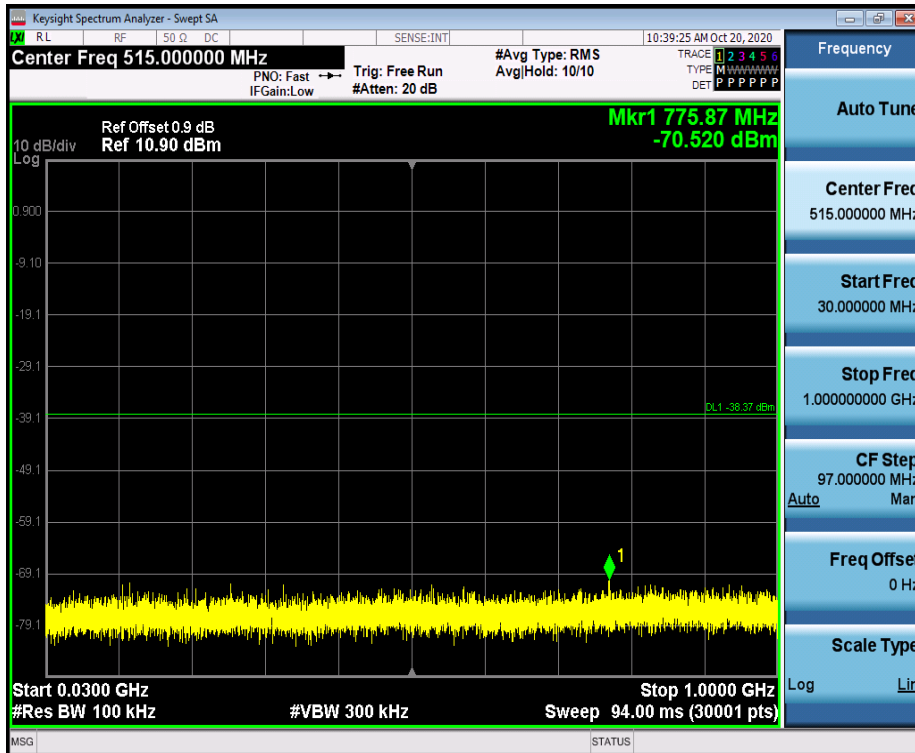
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11B_Ant1_2412_30~1000

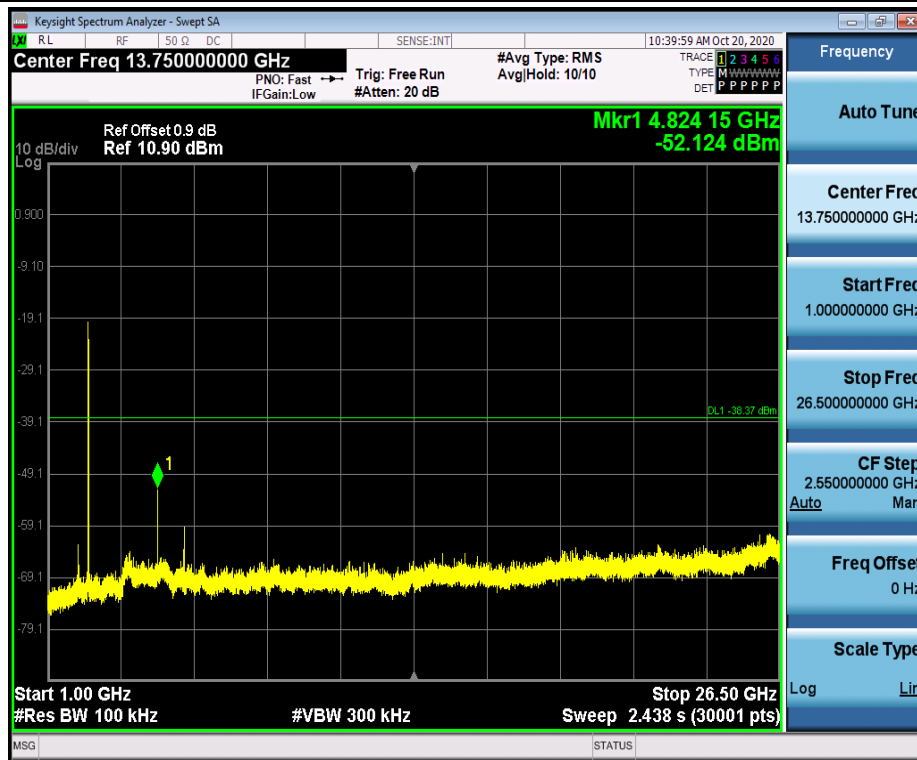


11B_Ant1_2412_1000~26500



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11B_Ant1_2442_0~Reference

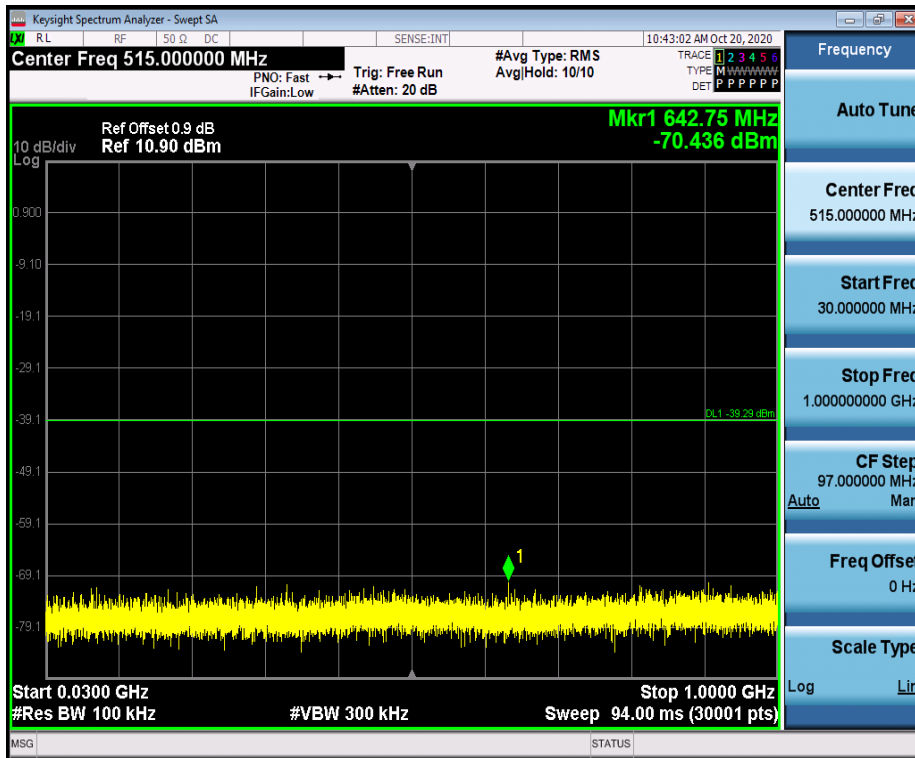


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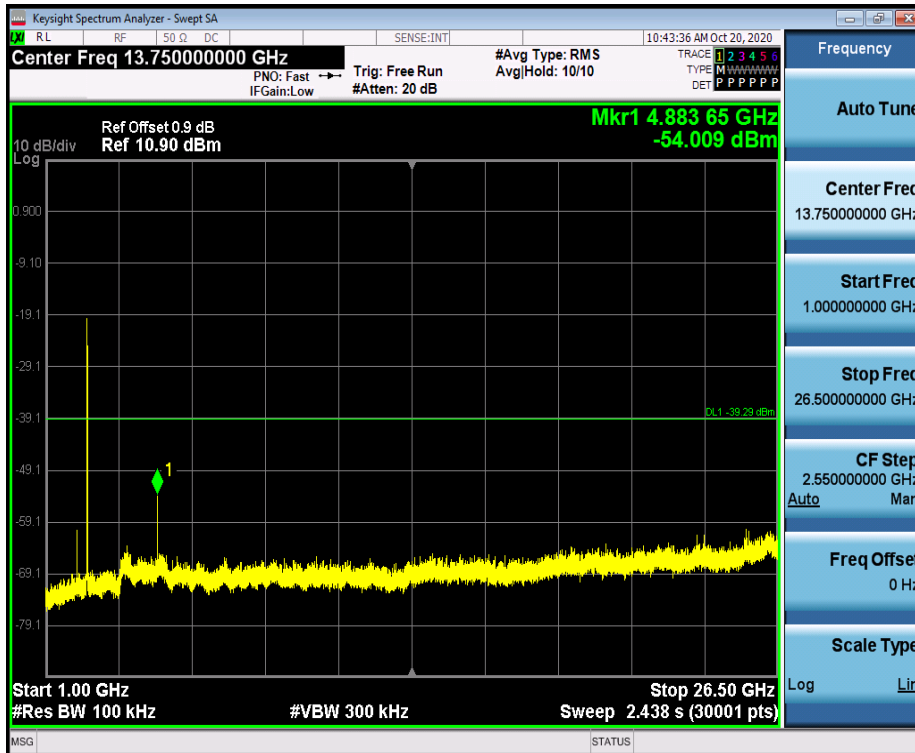


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11B_Ant1_2442_1000~26500



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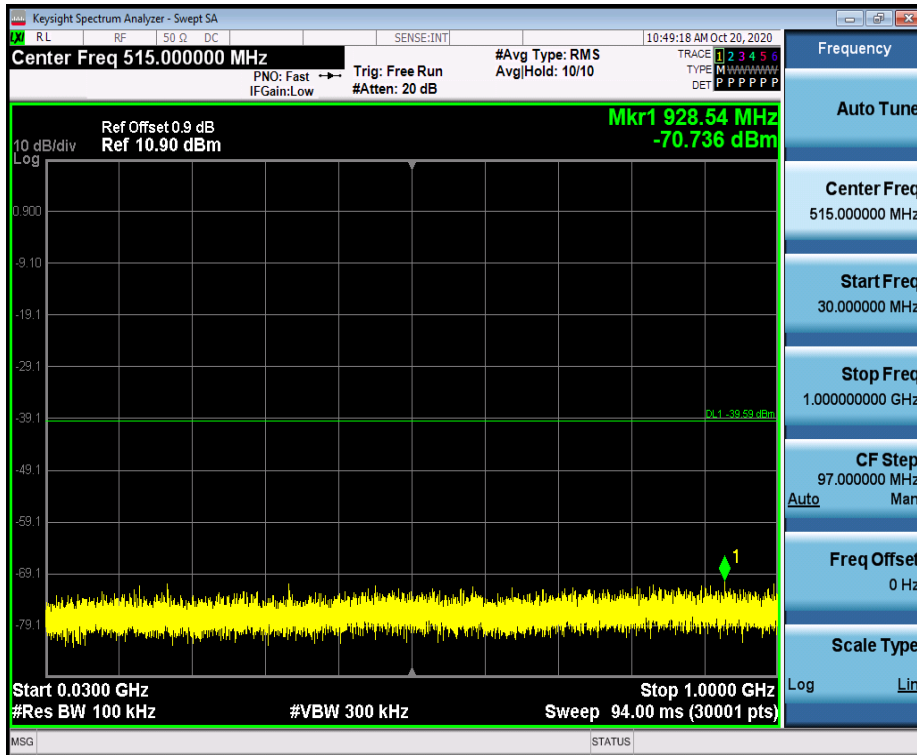


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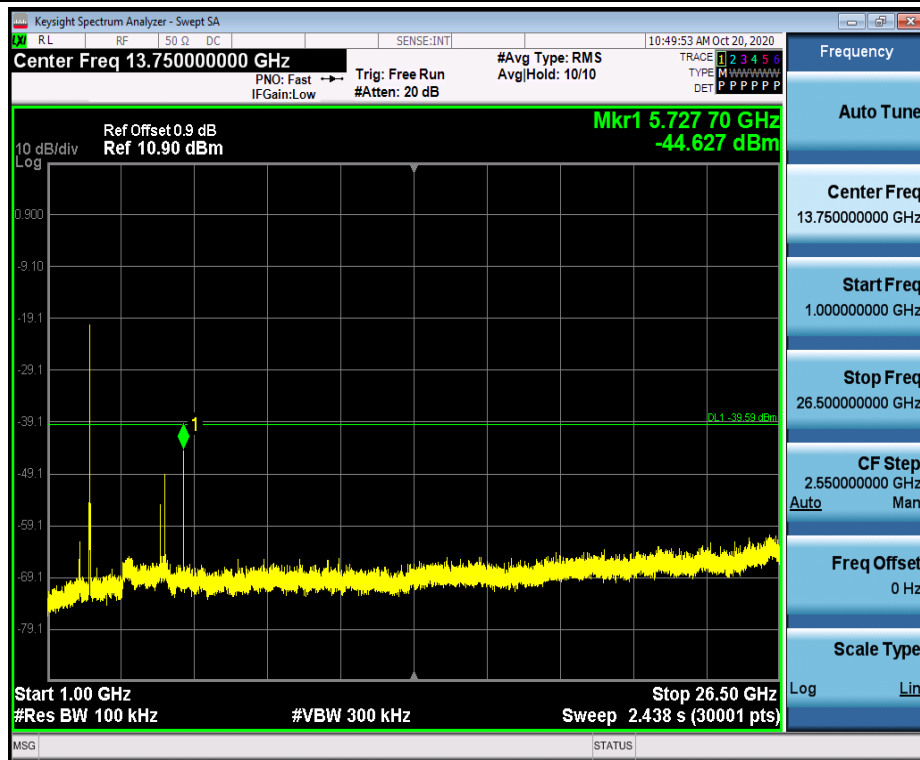


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