

TEST REPORT

Application No.: SHCR2111000798HS
FCC ID: 2ATEV-BL1206-P
IC: 25062-BL1206P
Applicant: Hangzhou BroadLink Technology Co.,Ltd
Address of Applicant: Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Manufacturer: Hangzhou BroadLink Technology Co.,Ltd
Address of Manufacturer: Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Factory: Hangzhou Gubei Intelligent Manufacturing Co.,Ltd
Address of Factory: D218,Building 2,Hangzhou Xiaoshan(China) Hardware Machinery Technology Innovation Park,Liansan Village,Yiqiao Town,Xiaoshan District,Hangzhou,310052

Equipment Under Test (EUT):
EUT Name: WIFI Module
Model No.: BL1206-P
Trade mark: Broadlink
Standard(s) : 47 CFR Part 15, Subpart C 15.247
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5, Amendment 2 (February 2021)

Date of Receipt: 2021-11-16
Date of Test: 2021-11-17 to 2021-12-17
Date of Issue: 2021-12-22

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



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-22	/

Authorized for issue by:			
		<i>Wade Zhang</i>	

		Wade Zhang / Project Engineer	
		<i>Parlam Zhan</i>	

		Parlam Zhan / Reviewer	



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2 Test Summary

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass

Note: This EUT was based on the report SHEM200600476601 changed a little difference schematic, and we re-tested the RF power and Radiation emissions consider as a C2PC application.



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3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY.....	3
3 CONTENTS.....	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.....	5
4.2 DESCRIPTION OF SUPPORT UNITS.....	5
4.3 POWER LEVEL SETTING USING IN TEST:	5
4.4 MEASUREMENT UNCERTAINTY	6
4.5 TEST LOCATION	7
4.6 TEST FACILITY	7
4.7 DEVIATION FROM STANDARDS	7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	7
5 EQUIPMENT LIST	8
6 RADIO SPECTRUM MATTER TEST RESULTS	9
6.1 CONDUCTED AVERAGE OUTPUT POWER	9
6.2 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	11
6.3 RADIATED SPURIOUS EMISSIONS	34
7 TEST SETUP PHOTOGRAPHS.....	63
8 EUT CONSTRUCTIONAL DETAILS.....	63



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V By USB port
Serial Number:	EC0BAE9DD860
Firmware Version:	V1.0
Test voltage:	DC 5V
Antenna Gain:	1dBi (Provided by manufacturer)
Antenna Type:	PCB Antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-MCS7
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
Serial port adapter plate	/	Test Plate 3	/

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	40	46	46
6	40	46	46
11	40	46	46

Channel	802.11n(HT40)
3	44
6	44
9	44



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	RF Conducted Power	0.6dB
3	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
4	Temperature Test	1°C
5	Humidity Test	3%
6	Supply Voltages	1.5%

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	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-08-30	2022-08-29
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2021-08-13	2022-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2021-08-13	2022-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2021-08-13	2022-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2021-07-28	2022-07-27
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Switcher	Tonscend	JS0806	SHEM184-1	2021-08-13	2022-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2021-08-13	2022-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2019-09-25	2022-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-12-19
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
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
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2019-10-24	2022-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2021-05-27	2022-05-26
Pre-Amplifier	PANSHAN	LNA 1-18G	SHEM235-1	2021-05-27	2022-05-26
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2020-12-20	2021-12-19
RE test Cable	/	RE01, RE02, RE06	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	/	/



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6 Radio Spectrum Matter Test Results

6.1 Conducted Average Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.2

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

6.1.1 E.U.T. Operation

Operating Environment:

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

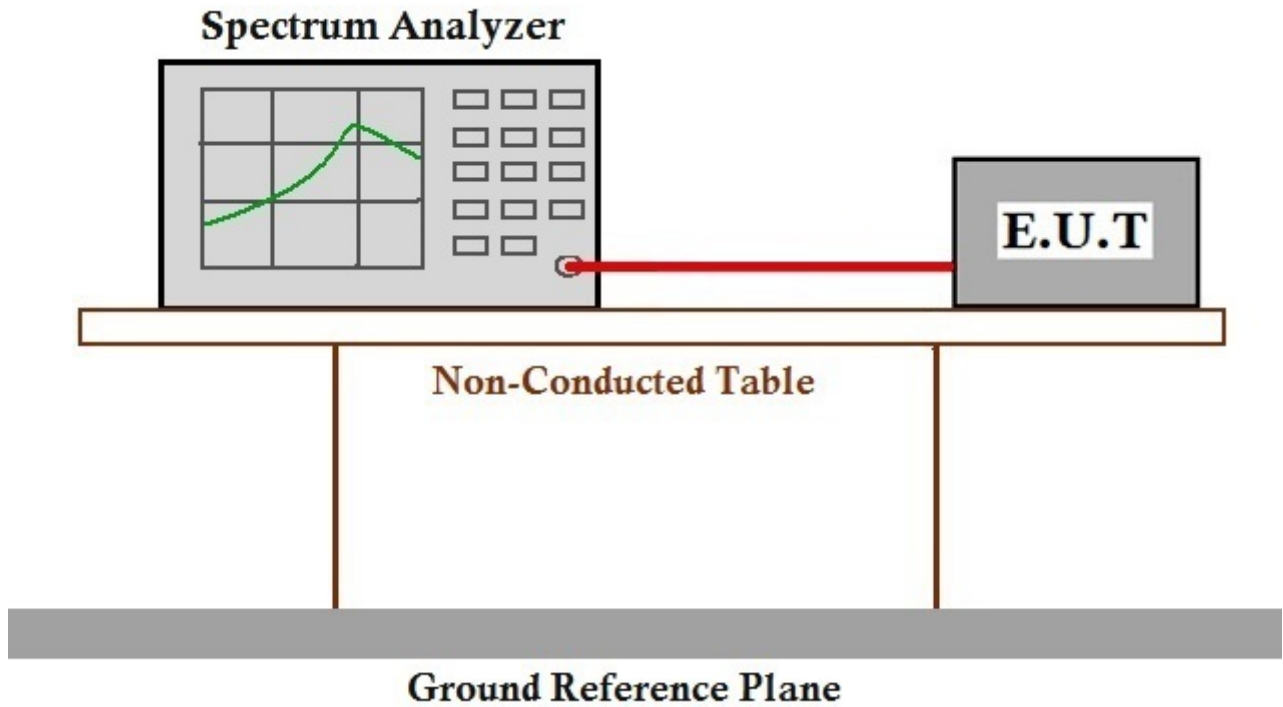
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100079801



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6.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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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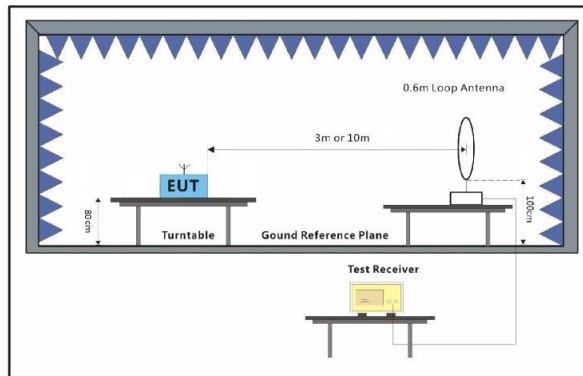
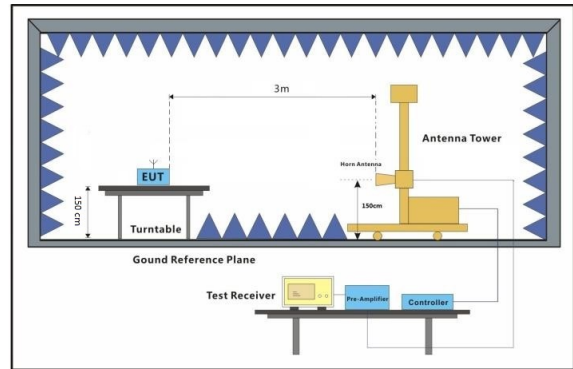
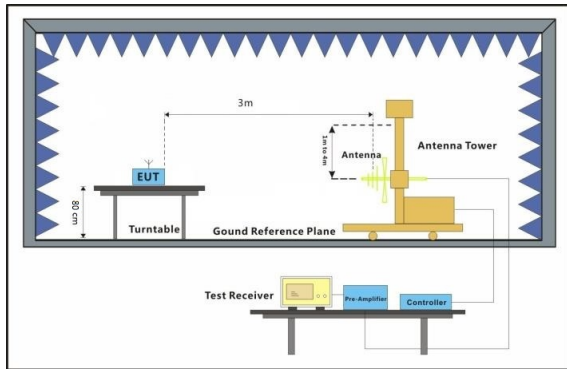
6.2.1 E.U.T. Operation

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 all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.2.2 Test Setup Diagram



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6.2.3 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.

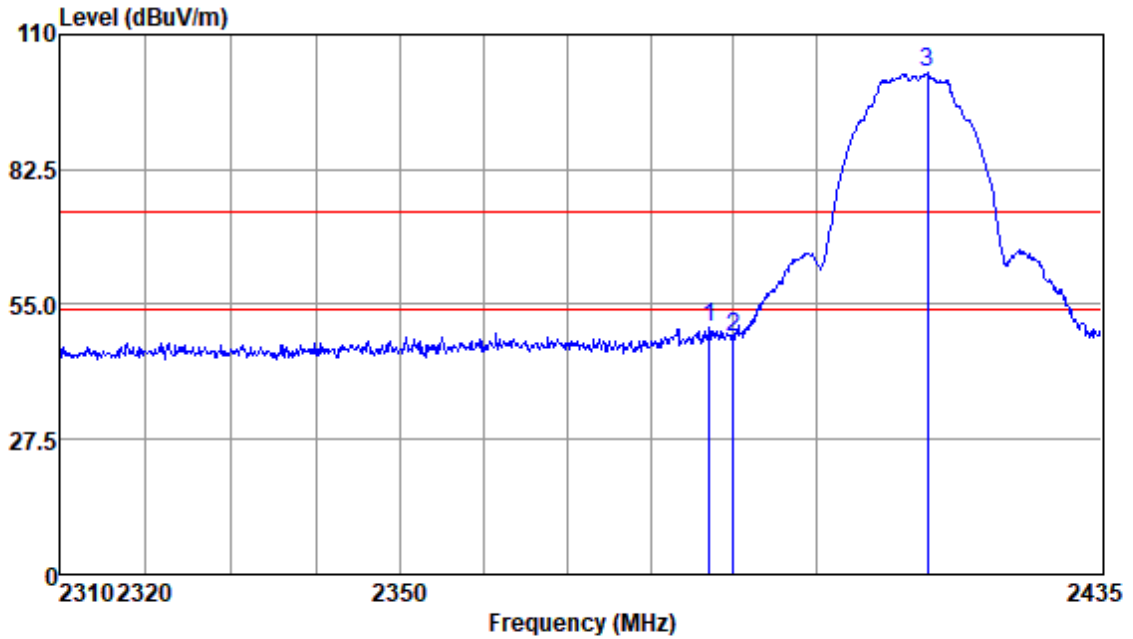
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



Antenna Polarity :HORIZONTAL

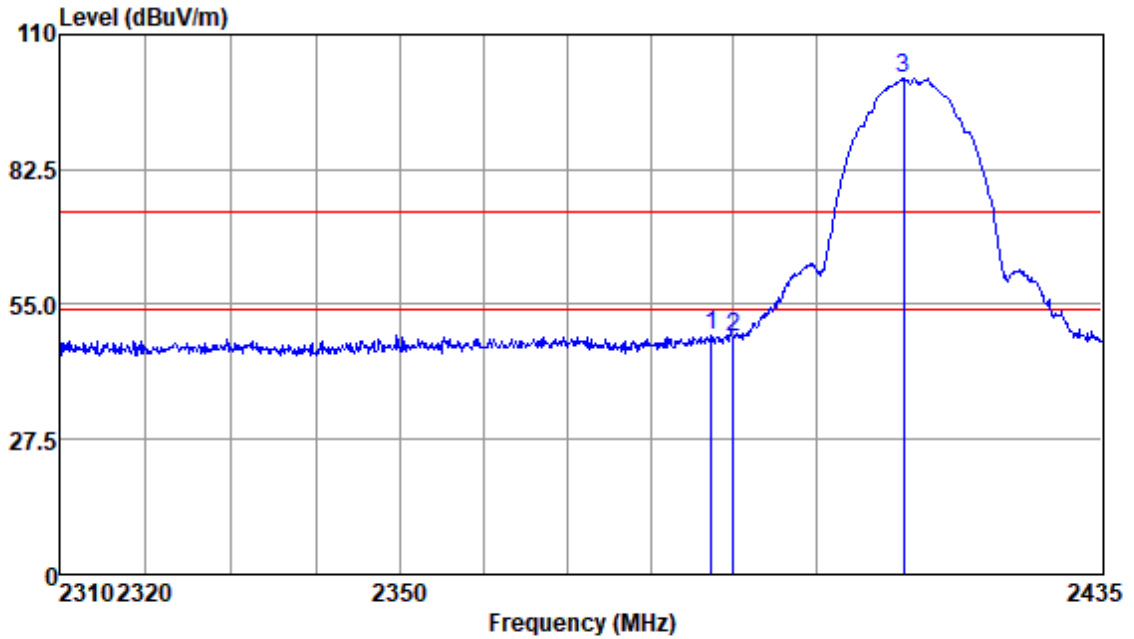
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2387.10	53.80	28.97	2.77	35.18	50.36	74.00	-23.64 Peak
2390.00	51.76	28.97	2.77	35.18	48.32	74.00	-25.68 Peak
2413.54	105.55	29.02	2.80	35.20	102.17	74.00	28.17 Peak

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



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



Antenna Polarity :VERTICAL

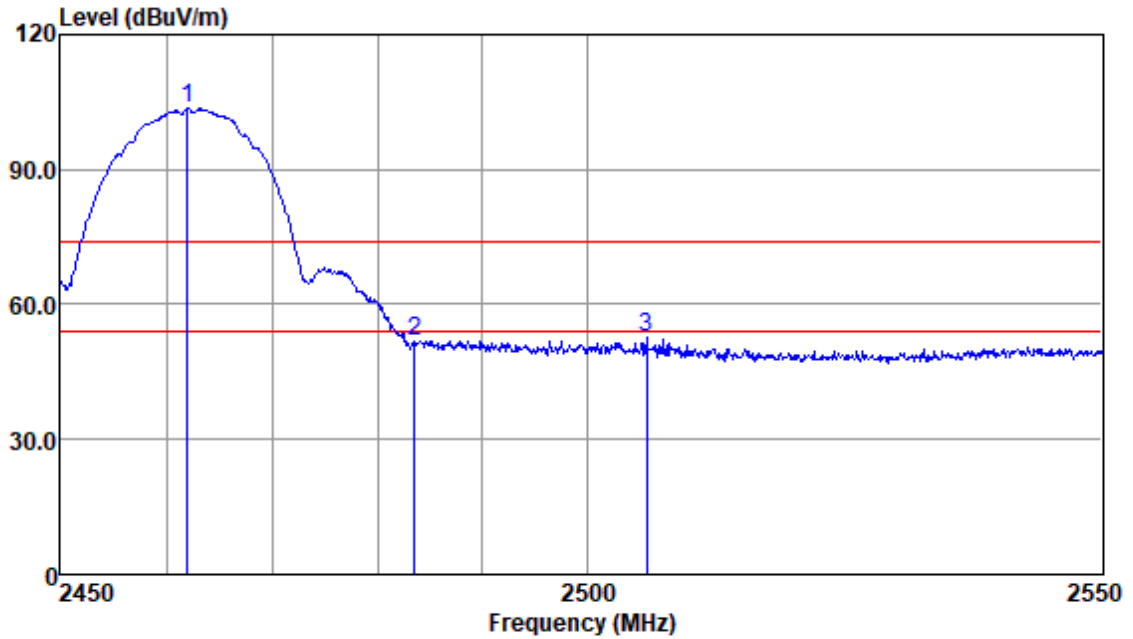
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.35	52.25	28.97	2.77	35.18	48.81	74.00	-25.19	Peak
2390.00	51.70	28.97	2.77	35.18	48.26	74.00	-25.74	Peak
2410.61	104.49	29.00	2.79	35.20	101.08	74.00	27.08	Peak

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



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



Antenna Polarity :HORIZONTAL

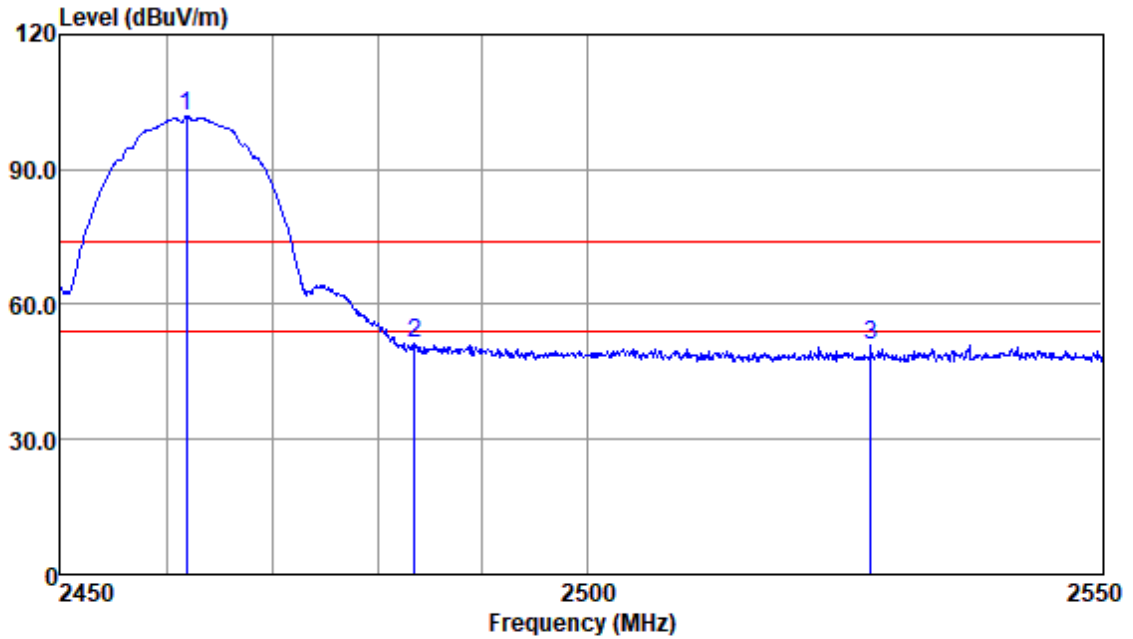
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2461.99	29.07	2.86	35.24	103.71	74.00	29.71	Peak
2483.50	29.11	2.88	35.26	51.67	74.00	-22.33	Peak
2505.81	29.21	2.90	35.28	52.55	74.00	-21.45	Peak

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



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



Antenna Polarity :VERTICAL

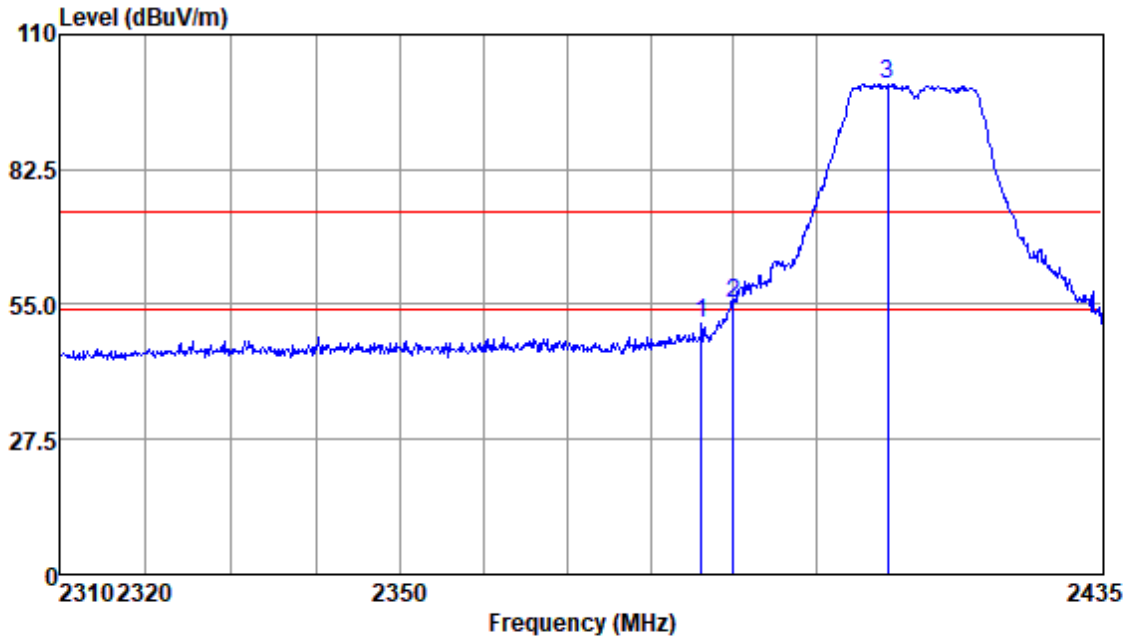
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB
2461.89	105.15	29.07	2.86	35.24	101.84	74.00	27.84 Peak
2483.50	54.80	29.11	2.88	35.26	51.53	74.00	-22.47 Peak
2527.45	54.12	29.31	2.92	35.31	51.04	74.00	-22.96 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

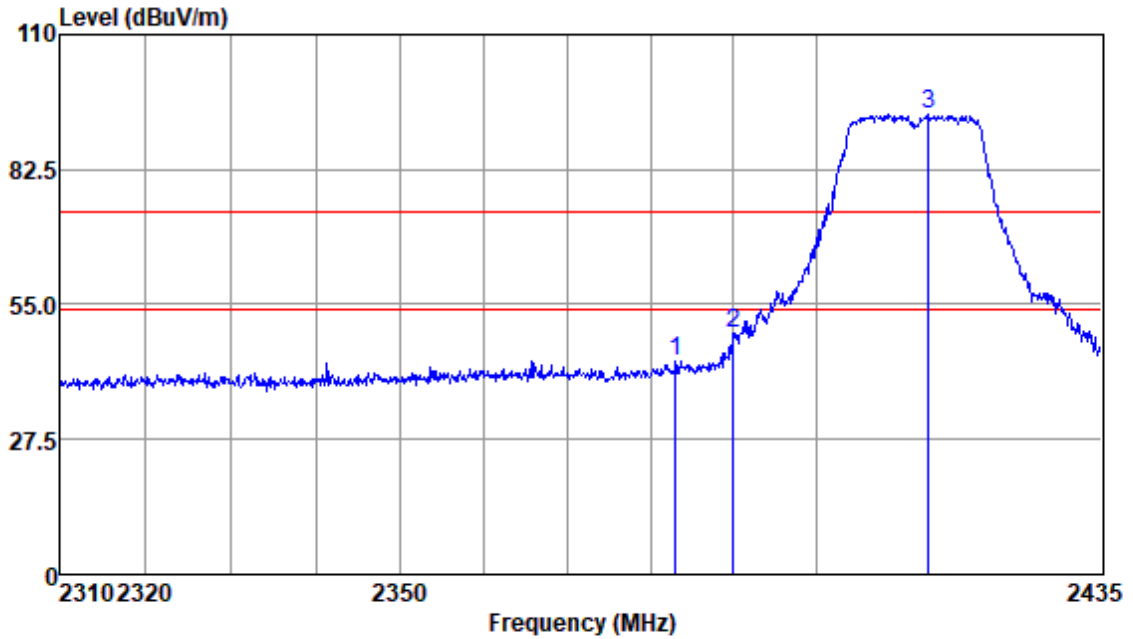
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
2386.09	54.41	28.97	2.77	35.18	50.97	-23.03	Peak
2390.00	58.70	28.97	2.77	35.18	55.26	-18.74	Peak
2408.71	103.35	29.00	2.79	35.20	99.94	25.94	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
2382.95	47.37	28.40	2.76	35.17	43.36	54.00	-10.64	Average	
2390.00	52.51	28.97	2.77	35.18	49.07	54.00	-4.93	Average	
2413.66	97.02	29.02	2.80	35.20	93.64	54.00	39.64	Average	

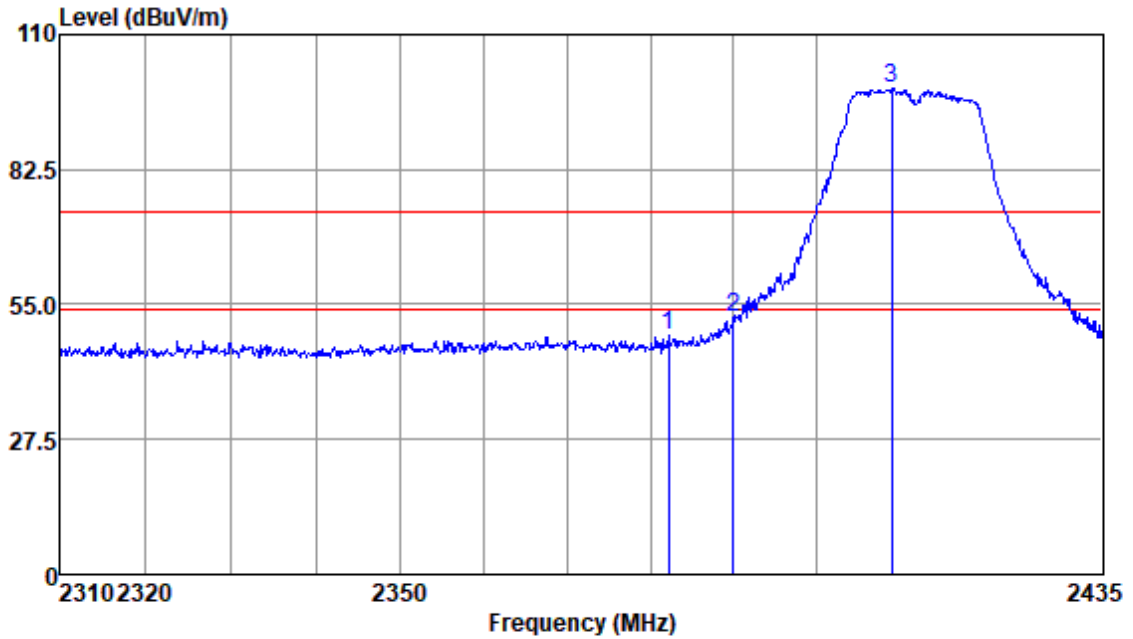
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

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
2382.20	52.78	28.40	2.76	35.17	48.77	74.00	-25.23 Peak
2390.00	56.00	28.97	2.77	35.18	52.56	74.00	-21.44 Peak
2409.22	102.48	29.00	2.79	35.20	99.07	74.00	25.07 Peak

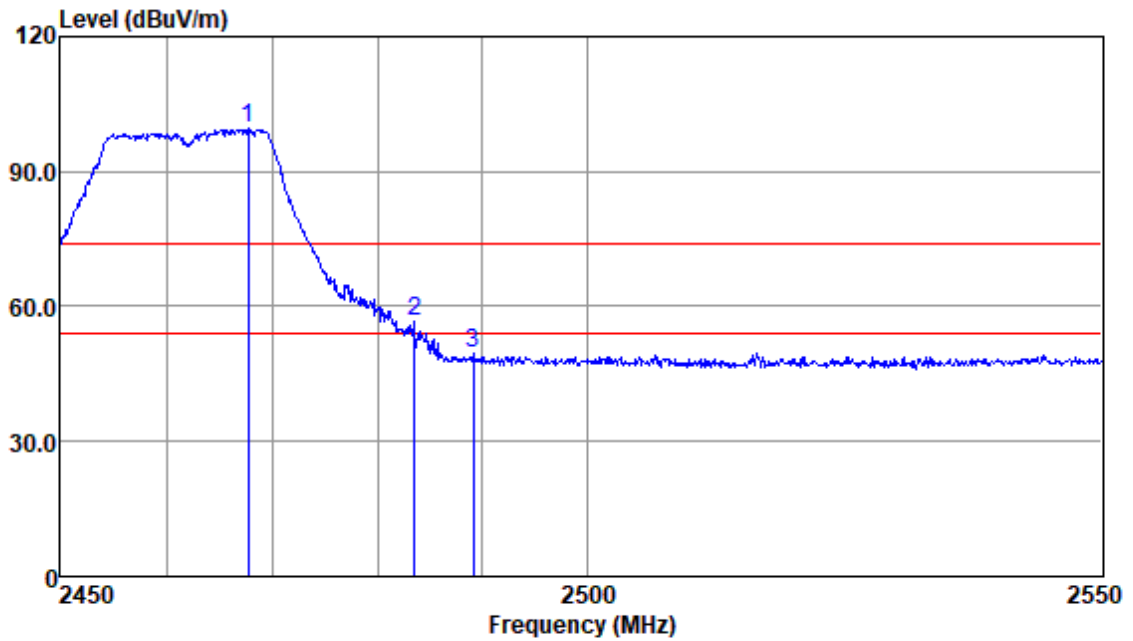
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

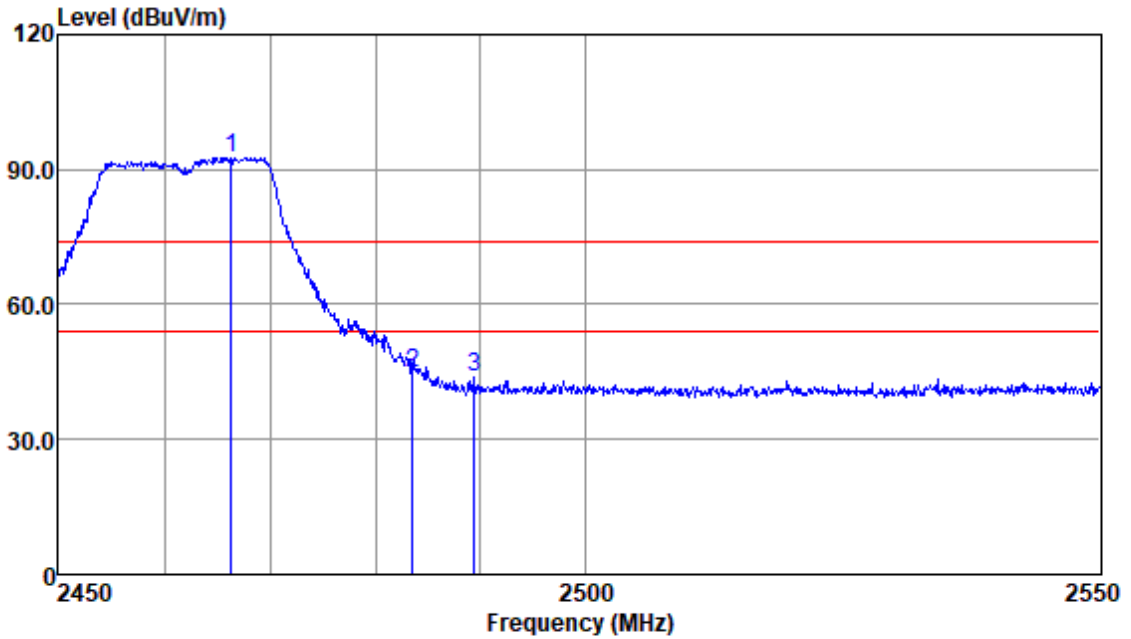
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.71	102.73	29.07	2.87	35.25	99.42	74.00	25.42	Peak
2483.50	60.13	29.11	2.88	35.26	56.86	74.00	-17.14	Peak
2489.12	52.68	29.13	2.89	35.26	49.44	74.00	-24.56	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

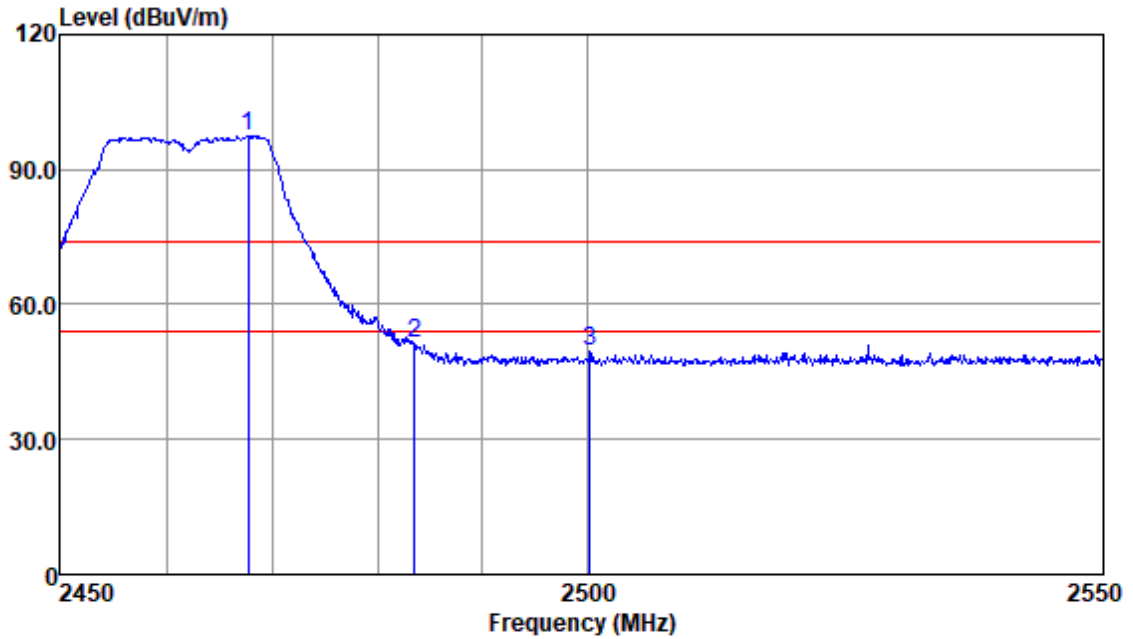
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.32	96.07	29.07	2.86	35.24	92.76	54.00	38.76	Average
2483.50	47.81	29.11	2.88	35.26	44.54	54.00	-9.46	Average
2489.42	47.07	29.13	2.89	35.26	43.83	54.00	-10.17	Average

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

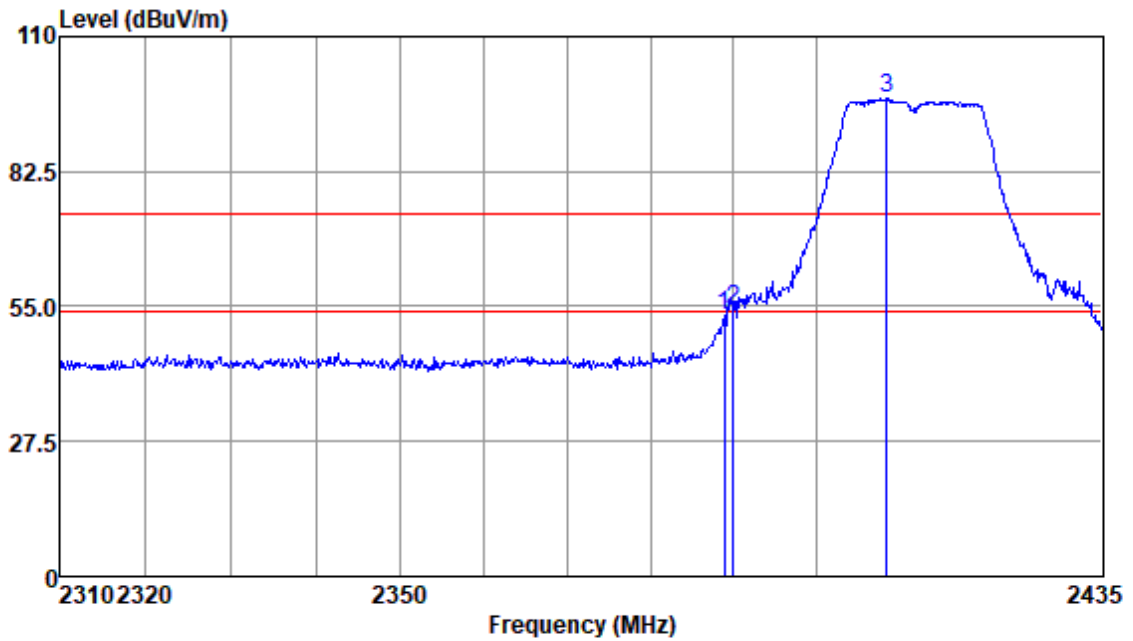
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2477.71	100.70	29.07	2.87	35.25	97.39	74.00	23.39	Peak
2483.50	54.68	29.11	2.88	35.26	51.41	74.00	-22.59	Peak
2500.30	52.70	29.14	2.90	35.27	49.47	74.00	-24.53	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

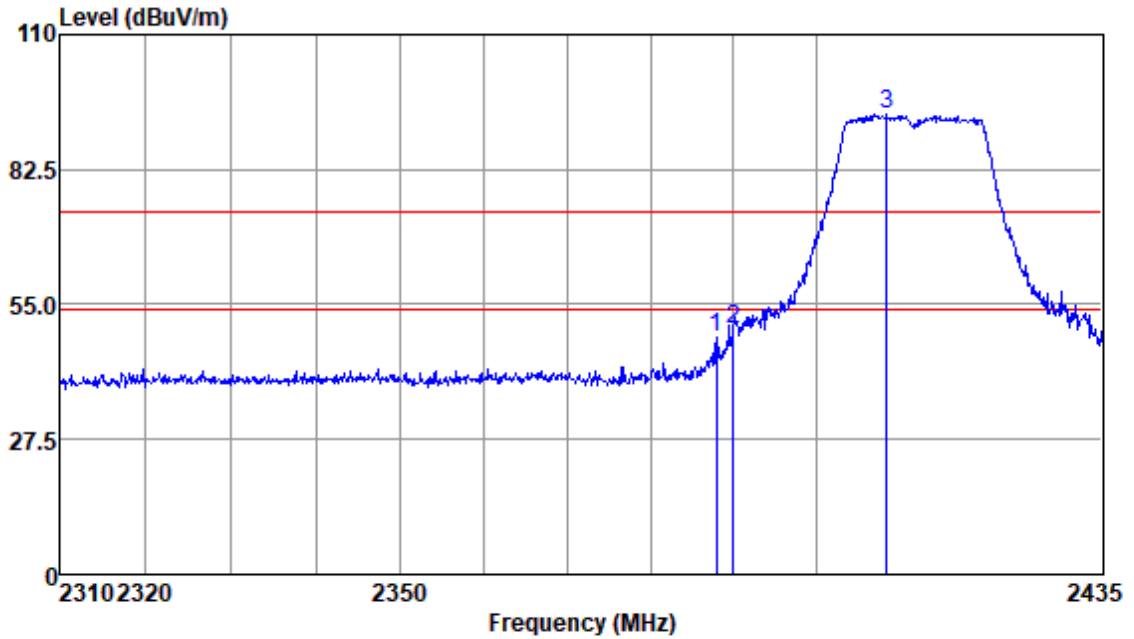
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
2388.86	56.46	28.97	2.77	35.18	53.02	74.00	-20.98 Peak
2390.00	57.94	28.97	2.77	35.18	54.50	74.00	-19.50 Peak
2408.58	100.70	29.00	2.79	35.20	97.29	74.00	23.29 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

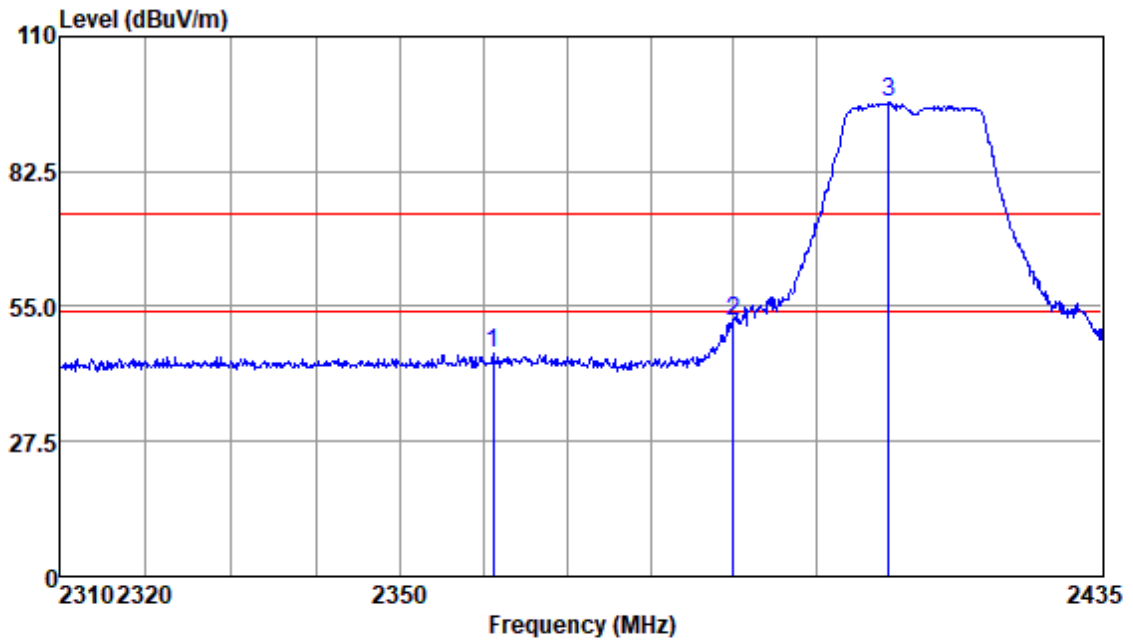
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.98	51.59	28.97	2.77	35.18	48.15	54.00	-5.85	Average
2390.00	53.27	28.97	2.77	35.18	49.83	54.00	-4.17	Average
2408.58	97.06	29.00	2.79	35.20	93.65	54.00	39.65	Average

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

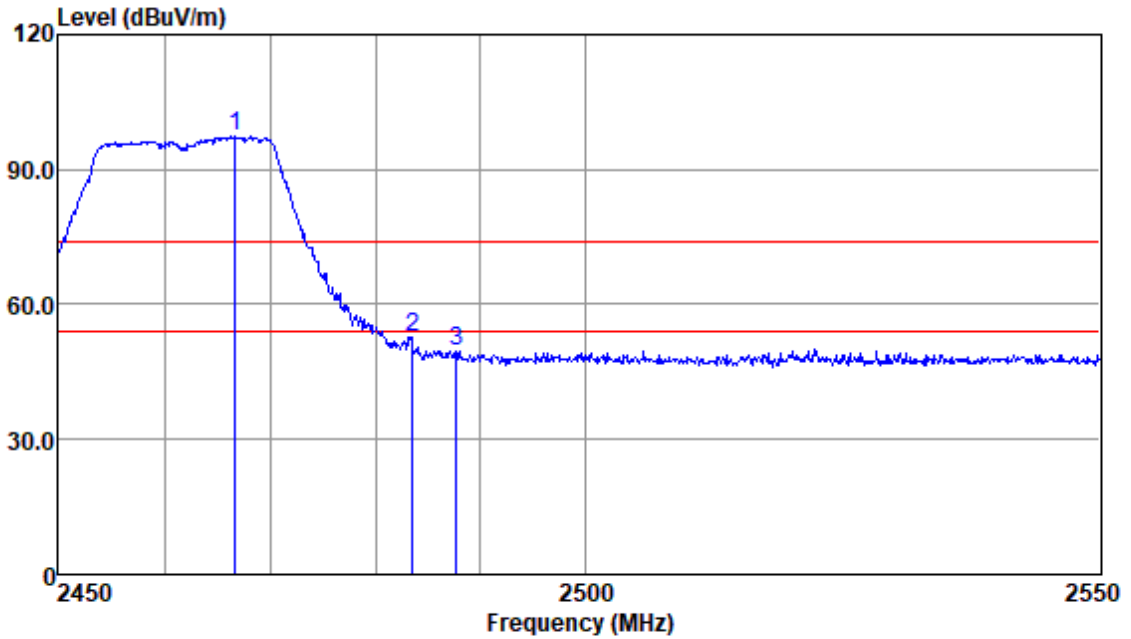
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB
2361.08	48.97	28.92	2.74	35.16	45.47	74.00	-28.53 Peak
2390.00	55.42	28.97	2.77	35.18	51.98	74.00	-22.02 Peak
2408.84	100.20	29.00	2.79	35.20	96.79	74.00	22.79 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.72	100.69	29.07	2.86	35.24	97.38	74.00	23.38	Peak
2483.50	56.09	29.11	2.88	35.26	52.82	74.00	-21.18	Peak
2487.73	53.06	29.11	2.88	35.26	49.79	74.00	-24.21	Peak

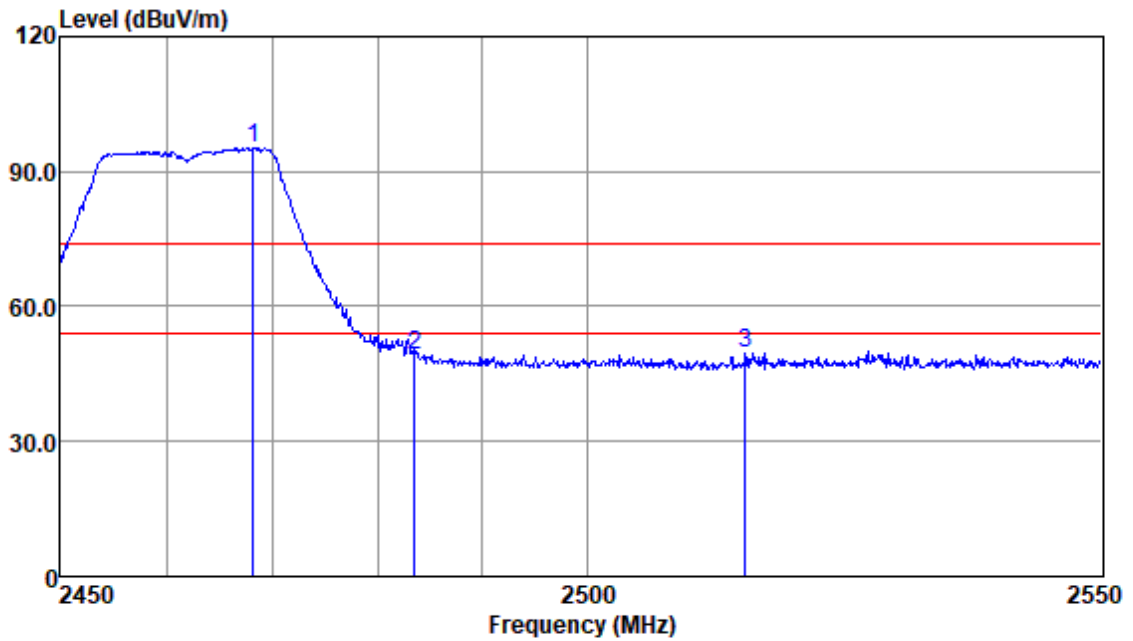
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

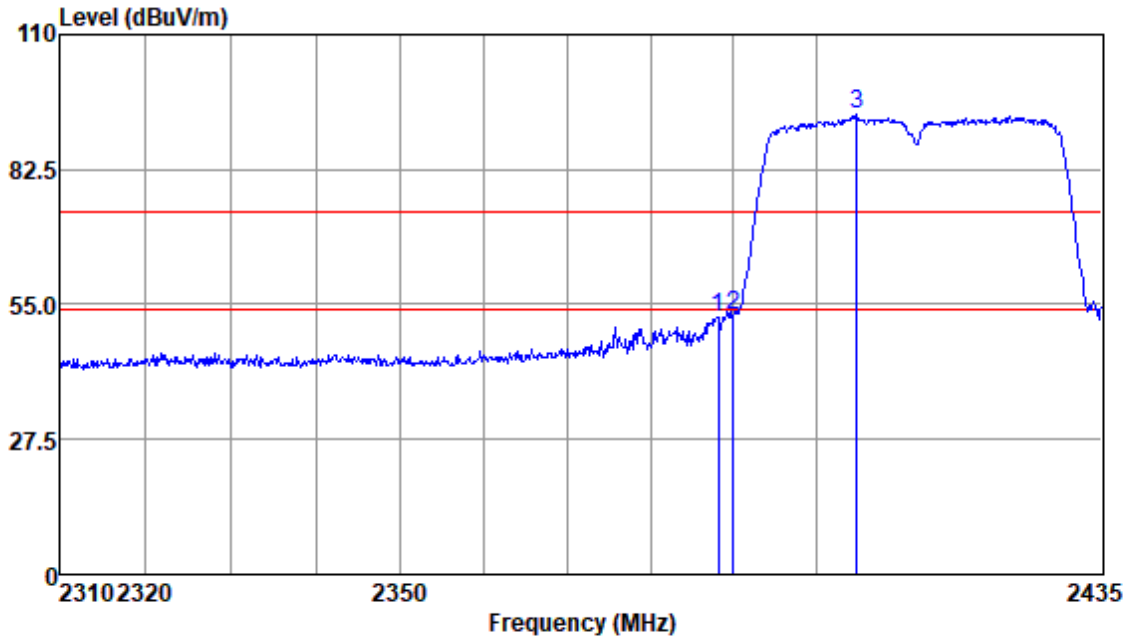
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2468.20	98.45	29.07	2.87	35.25	95.14	74.00	21.14	Peak
2483.50	52.40	29.11	2.88	35.26	49.13	74.00	-24.87	Peak
2515.25	52.91	29.24	2.91	35.29	49.77	74.00	-24.23	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

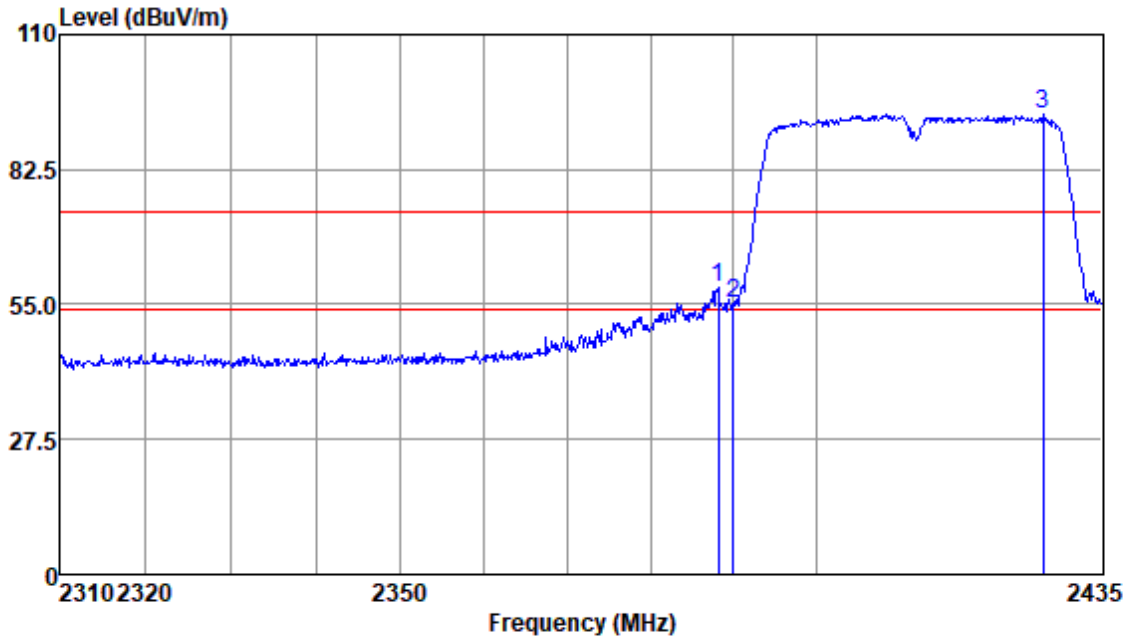
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark		
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB
2388.11	55.83	28.97	2.77	35.18	52.39	74.00	-21.61	Peak
2390.00	56.38	28.97	2.77	35.18	52.94	74.00	-21.06	Peak
2404.90	97.23	29.00	2.79	35.20	93.82	74.00	19.82	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

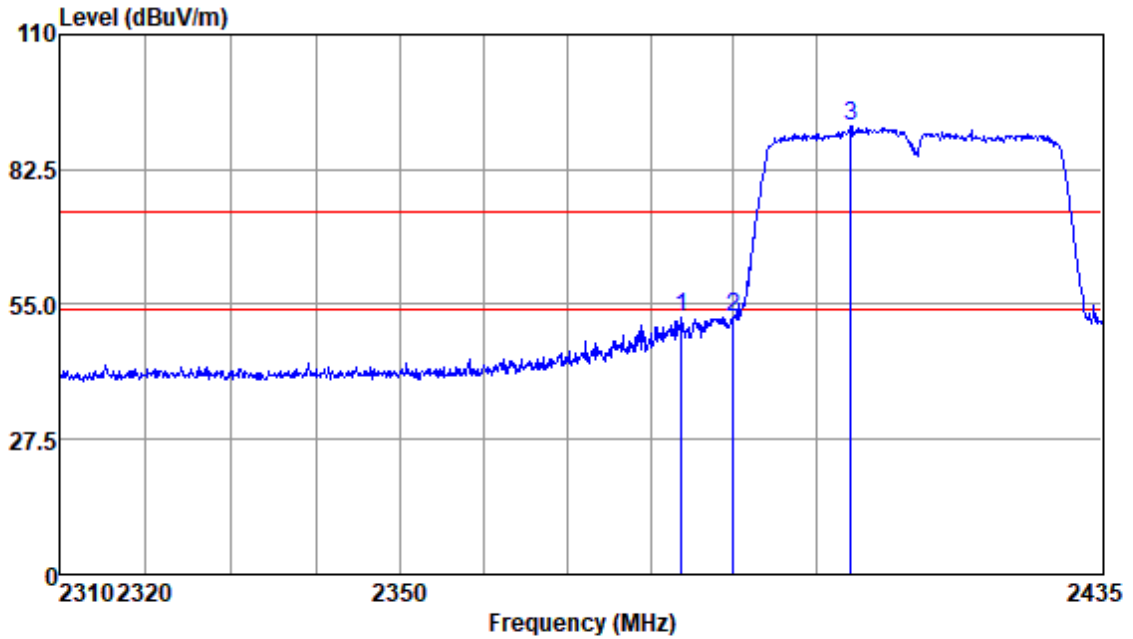
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2388.11	61.73	28.97	2.77	35.18	58.29	74.00	-15.71 Peak
2390.00	58.84	28.97	2.77	35.18	55.40	74.00	-18.60 Peak
2427.70	97.11	29.05	2.82	35.21	93.77	74.00	19.77 Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; 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			
2383.71	55.70	28.97	2.77	35.18	52.26	54.00	-1.74	Average	
2390.00	55.82	28.97	2.77	35.18	52.38	54.00	-1.62	Average	
2404.27	94.87	29.00	2.79	35.20	91.46	54.00	37.46	Average	

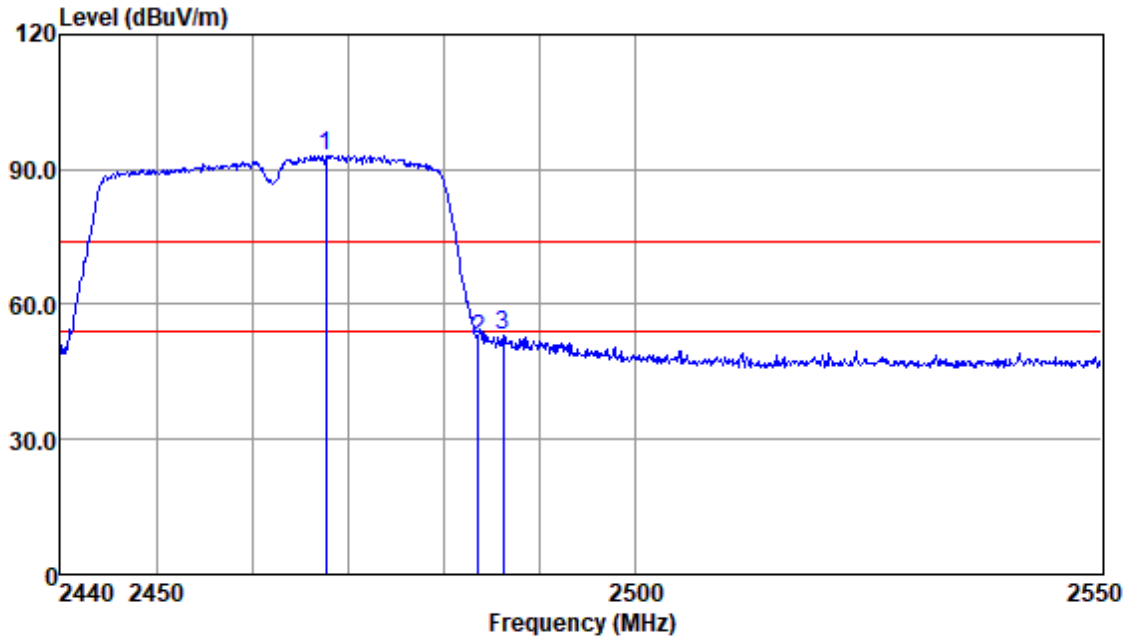
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

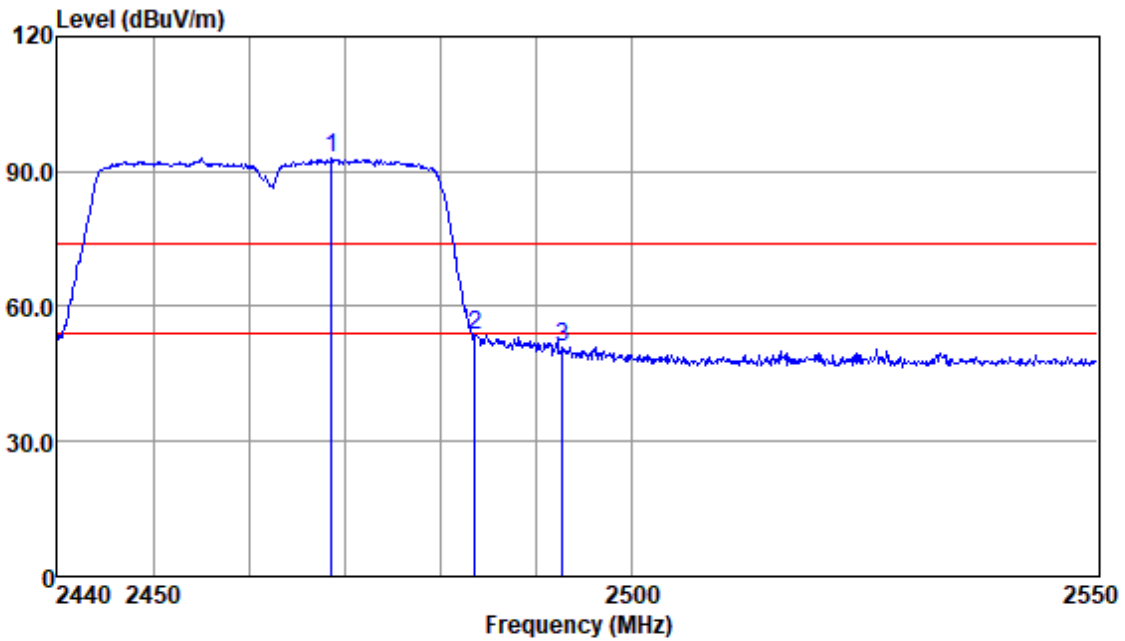
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.59	96.48	29.07	2.87	35.25	93.17	74.00	19.17	Peak
2483.50	55.56	29.11	2.88	35.26	52.29	74.00	-21.71	Peak
2486.16	56.33	29.11	2.88	35.26	53.06	74.00	-20.94	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; 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	
2468.46	96.30	29.07	2.87	35.25	92.99	74.00	18.99	Peak
2483.50	56.67	29.11	2.88	35.26	53.40	74.00	-20.60	Peak
2492.74	54.37	29.13	2.89	35.26	51.13	74.00	-22.87	Peak

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



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6.3 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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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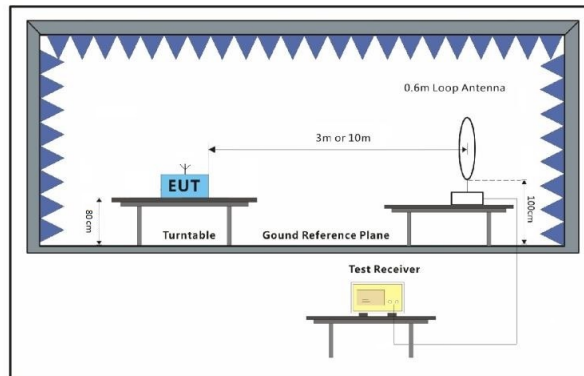
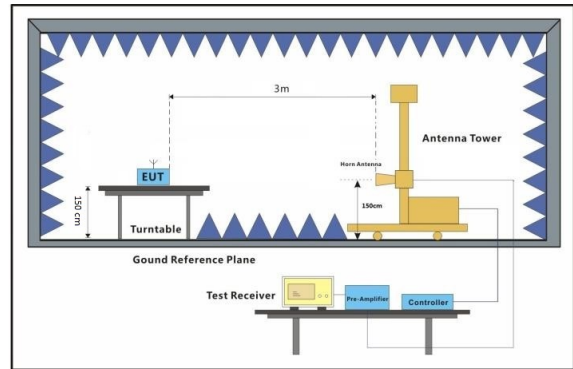
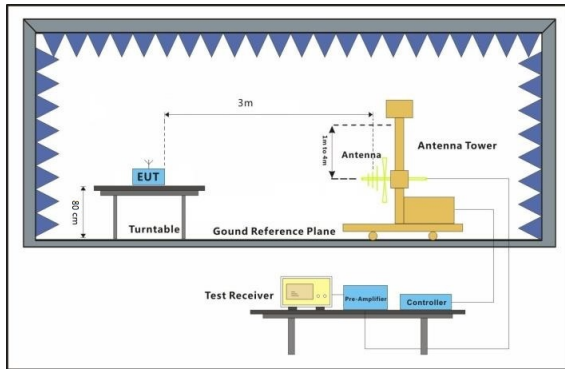
6.3.1 E.U.T. Operation

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 all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.3.2 Test Setup Diagram



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6.3.3 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.

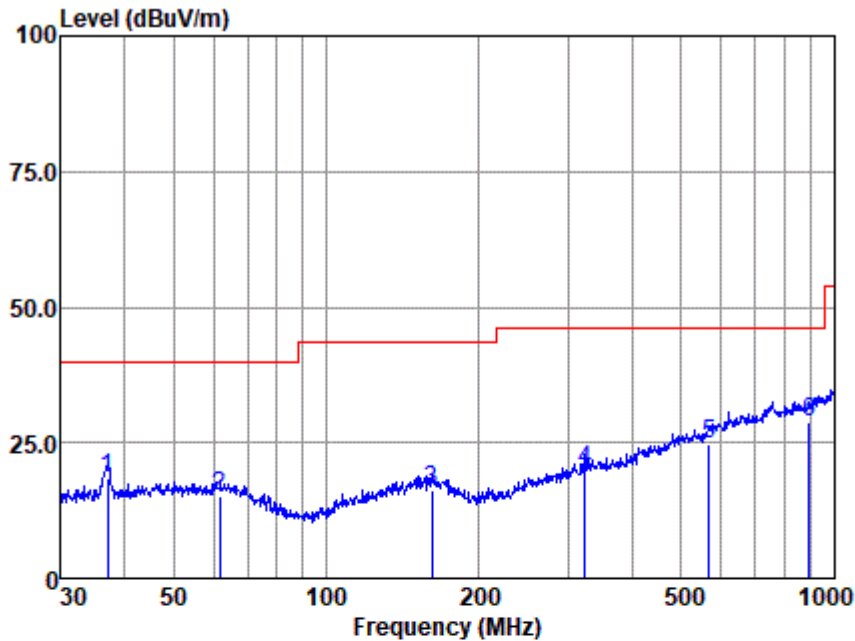
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower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



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Below 1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL

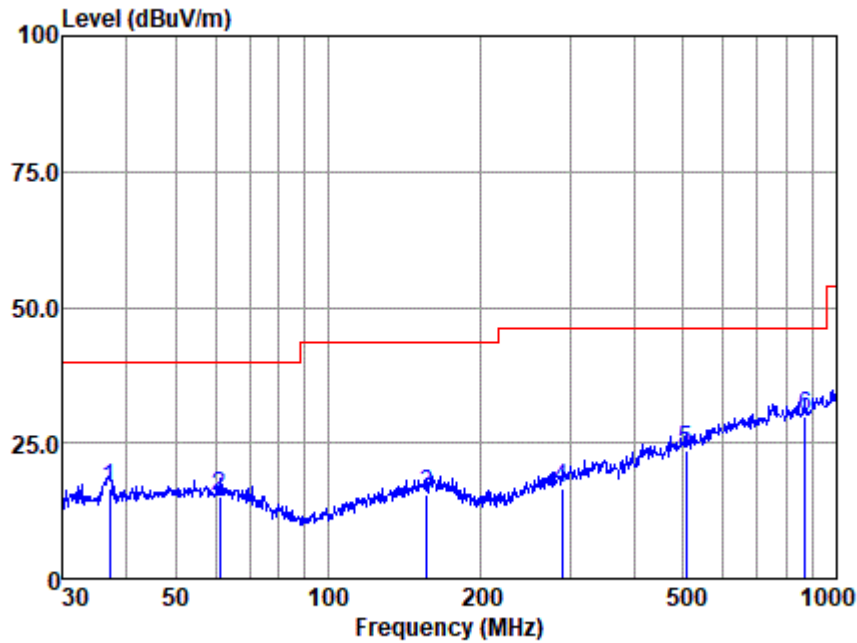
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.025	36.86	12.74	0.84	31.92	18.52	40.00	-21.48 QP
2	61.778	32.56	12.85	1.14	31.54	15.01	40.00	-24.99 QP
3	161.474	32.28	13.13	1.93	31.23	16.11	43.50	-27.39 QP
4	323.320	34.12	13.97	2.90	30.96	20.03	46.00	-25.97 QP
5	568.613	32.81	18.79	3.81	30.63	24.78	46.00	-21.22 QP
6	893.857	33.23	23.30	4.77	32.69	28.61	46.00	-17.39 QP

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



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL

	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	37.155	34.79	12.76	0.84	31.93	16.46	40.00	-23.54 QP
2	61.132	32.76	12.94	1.13	31.56	15.27	40.00	-24.73 QP
3	156.458	31.81	13.10	1.90	31.26	15.55	43.50	-27.95 QP
4	287.990	32.27	13.01	2.78	31.30	16.76	46.00	-29.24 QP
5	506.479	32.92	17.79	3.57	30.69	23.59	46.00	-22.41 QP
6	869.130	34.58	22.90	4.70	32.28	29.90	46.00	-16.10 QP

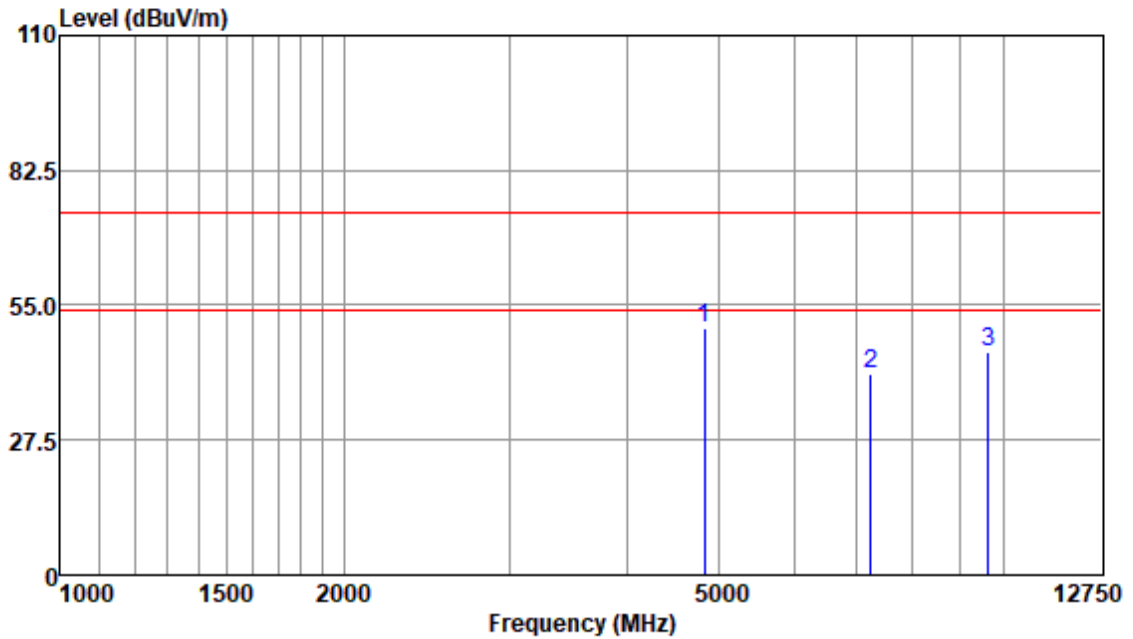
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Above 1GHz

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



Antenna Polarity :HORIZONTAL

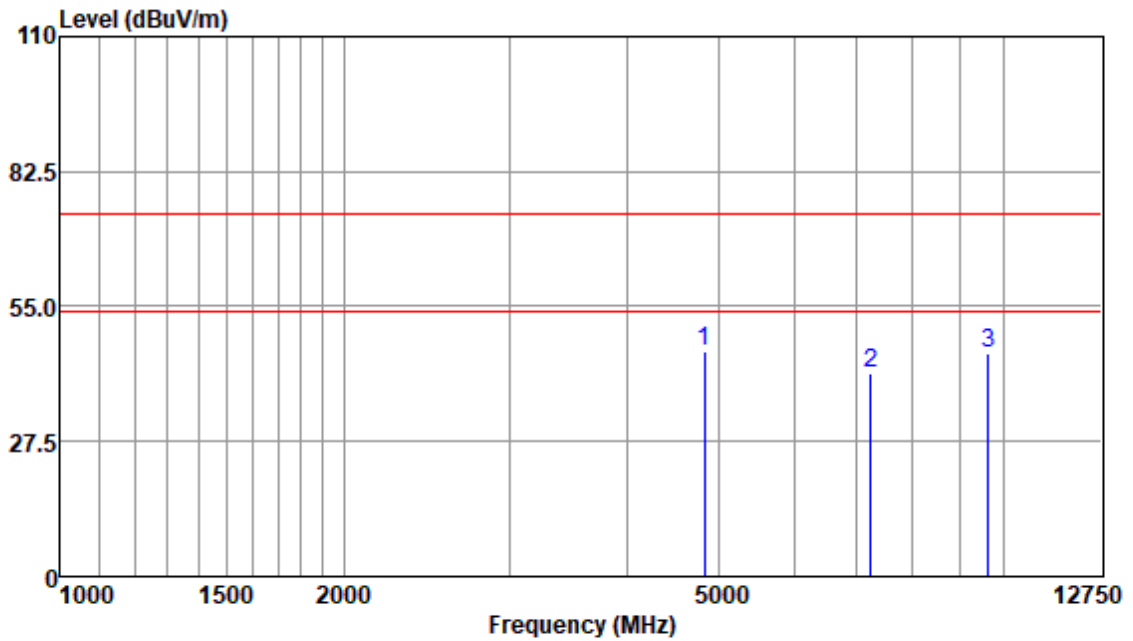
Read Freq	Antenna Cable	Emission	Limit	Over	Remark
MHz	Factor Loss	Level	Line	Limit	
dBuv	dB/m dB	dBuv/m	dBuv/m	dB	
4824.00	30.91 5.01	50.38	74.00	-23.62	Peak
7236.00	33.40 5.78	40.90	74.00	-33.10	Peak
9648.00	35.14 6.65	45.60	74.00	-28.40	Peak

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



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



Antenna Polarity :VERTICAL

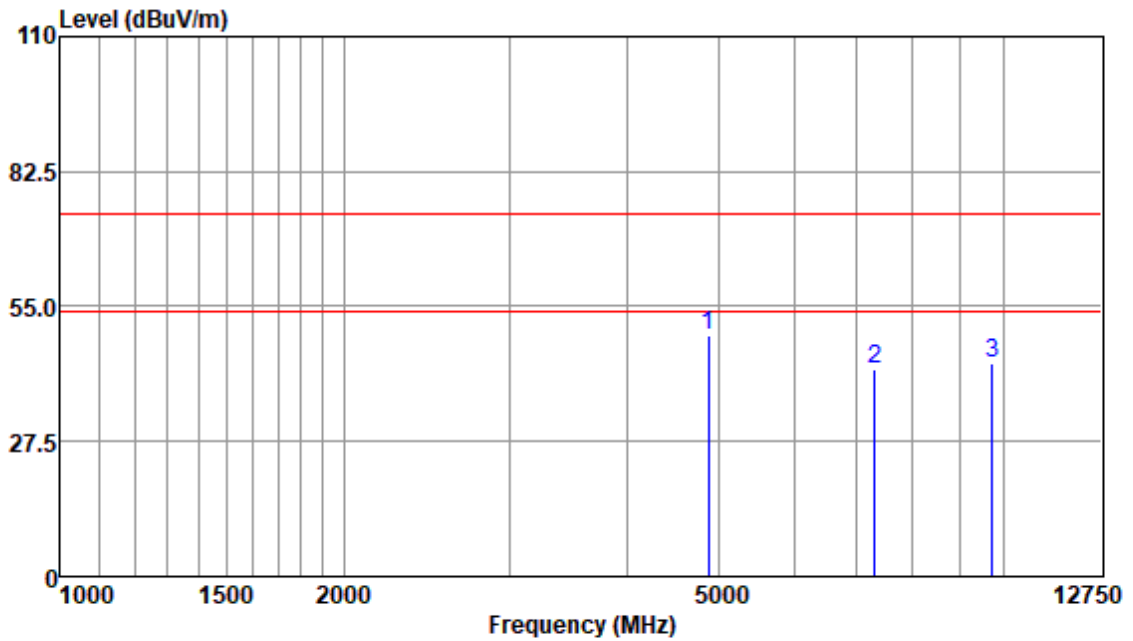
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4824.00	48.87	30.91	5.01	46.06	74.00	-27.94	Peak
7236.00	39.55	33.40	5.78	41.57	74.00	-32.43	Peak
9648.00	37.82	35.14	6.65	45.44	74.00	-28.56	Peak

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



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



Antenna Polarity :HORIZONTAL

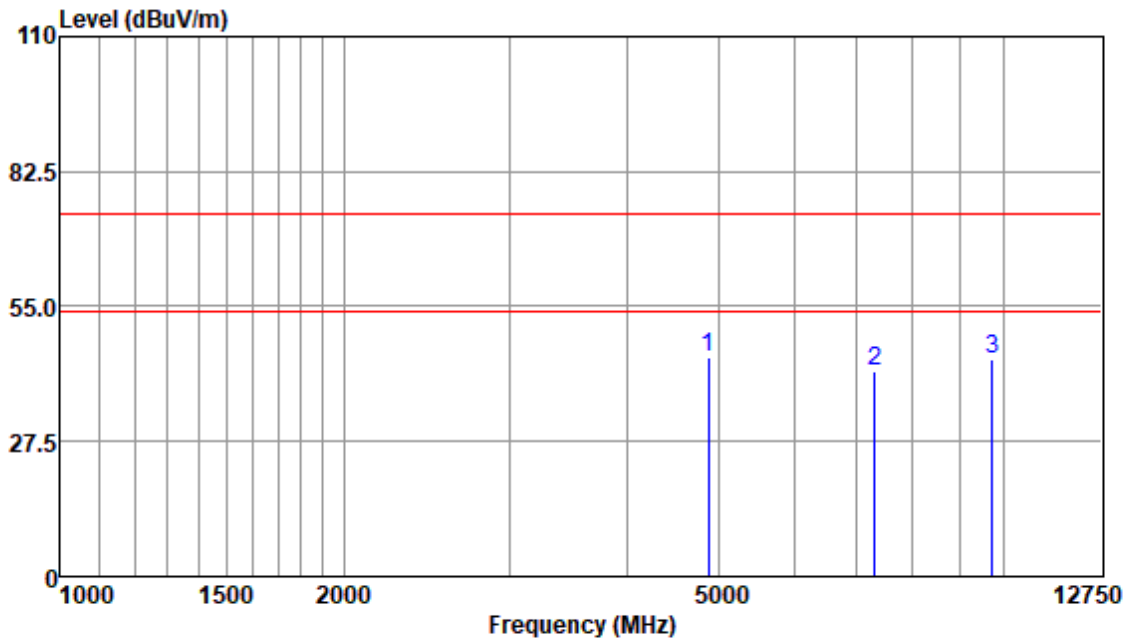
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	52.34	31.06	4.48	49.10	74.00	-24.90	Peak
7311.00	39.92	33.47	5.80	42.08	74.00	-31.92	Peak
9748.00	36.06	35.10	6.46	43.47	74.00	-30.53	Peak

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



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



Antenna Polarity :VERTICAL

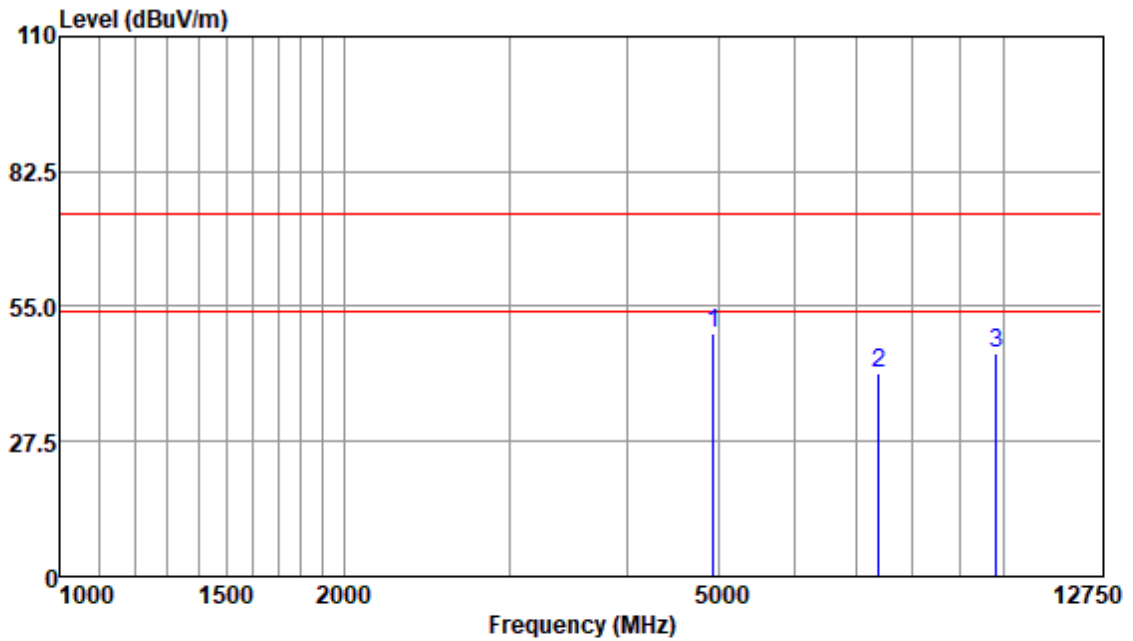
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	47.82	31.06	4.48	44.58	74.00	-29.42	Peak
7311.00	39.80	33.47	5.80	41.96	74.00	-32.04	Peak
9748.00	36.98	35.10	6.46	44.39	74.00	-29.61	Peak

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



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



Antenna Polarity :HORIZONTAL

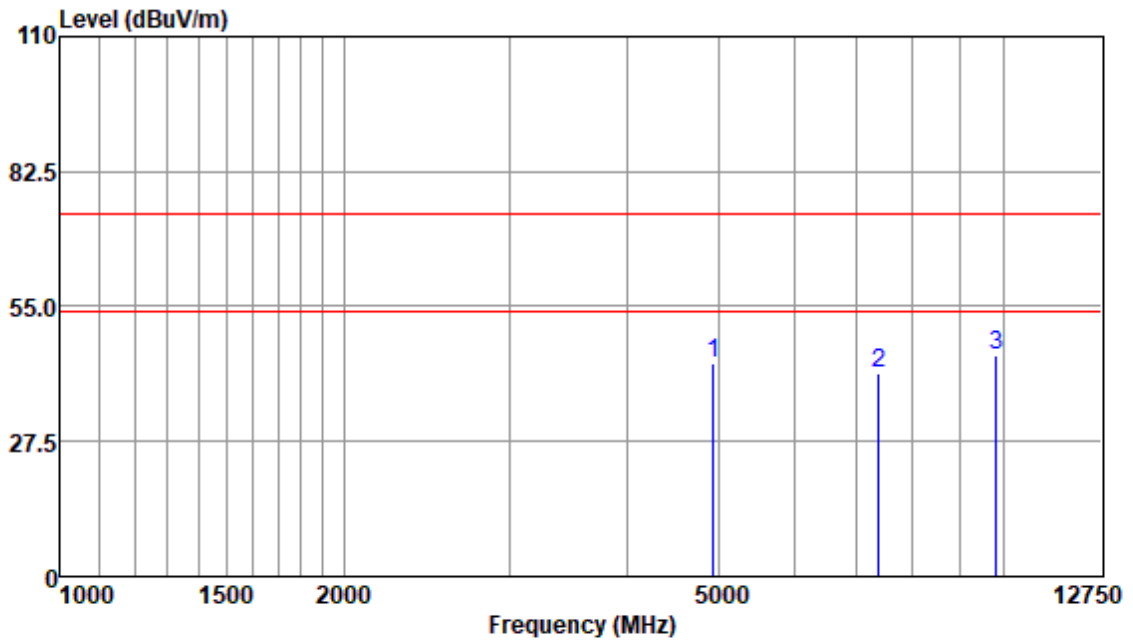
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4924.00	53.01	31.21	4.30	49.69	74.00	-24.31	Peak
7386.00	38.42	33.58	6.35	41.29	74.00	-32.71	Peak
9848.00	38.17	35.07	6.53	45.64	74.00	-28.36	Peak

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



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



Antenna Polarity :VERTICAL

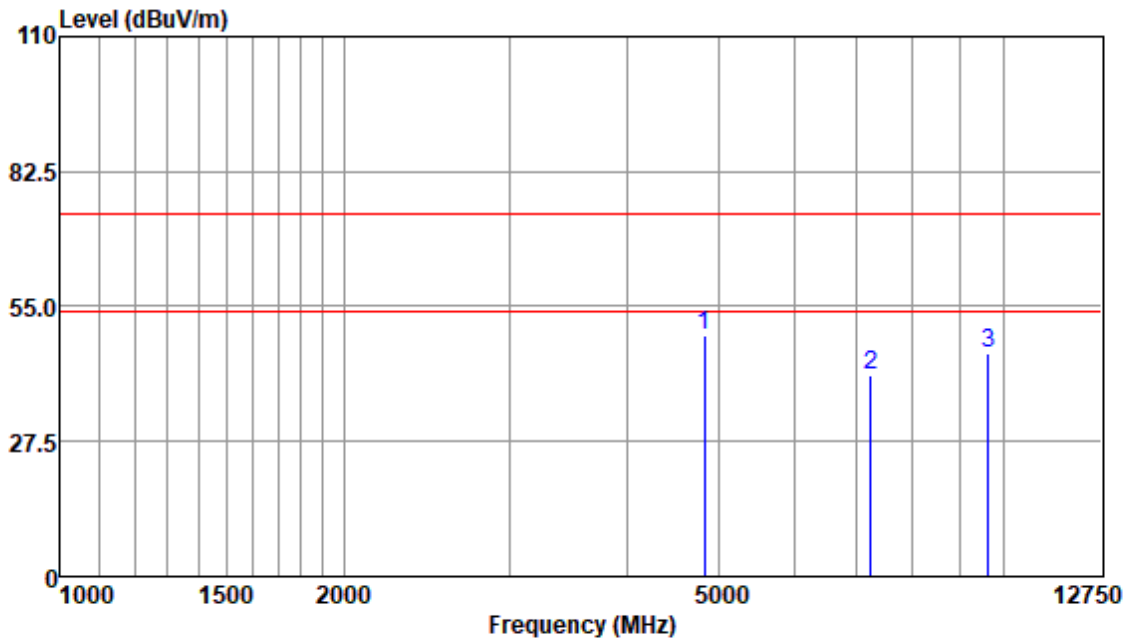
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4924.00	46.72	31.21	4.30	43.40	74.00	-30.60	Peak
7386.00	38.58	33.58	6.35	41.45	74.00	-32.55	Peak
9848.00	37.73	35.07	6.53	45.20	74.00	-28.80	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

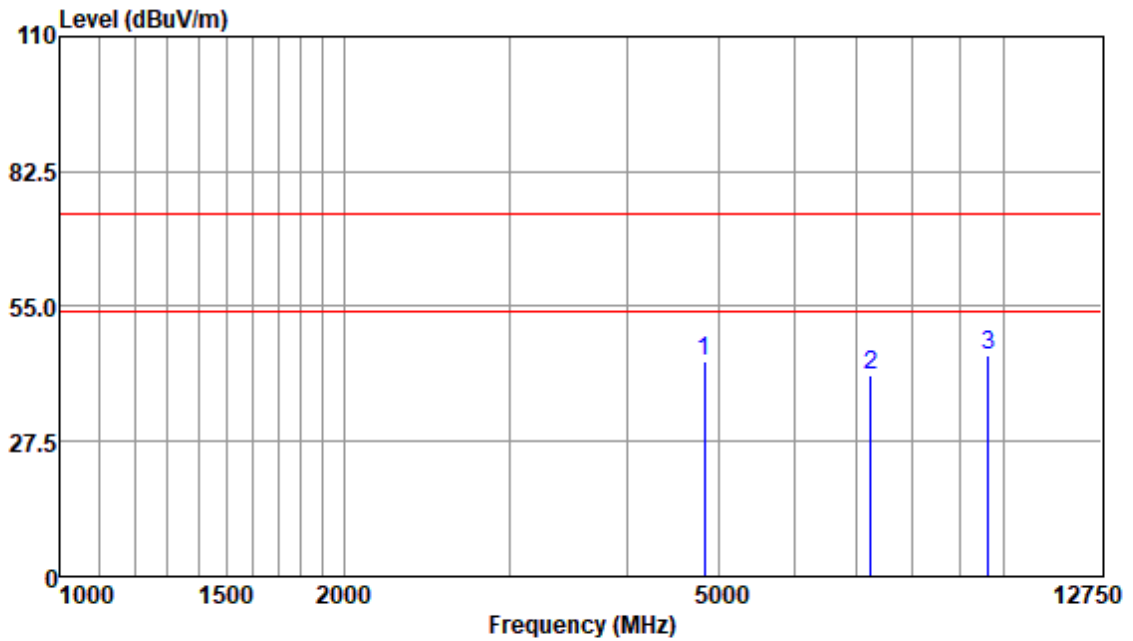
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
4824.00	51.84	30.91	5.01	49.03	74.00	-24.97	Peak
7236.00	38.79	33.40	5.78	40.81	74.00	-33.19	Peak
9648.00	37.69	35.14	6.65	45.31	74.00	-28.69	Peak

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

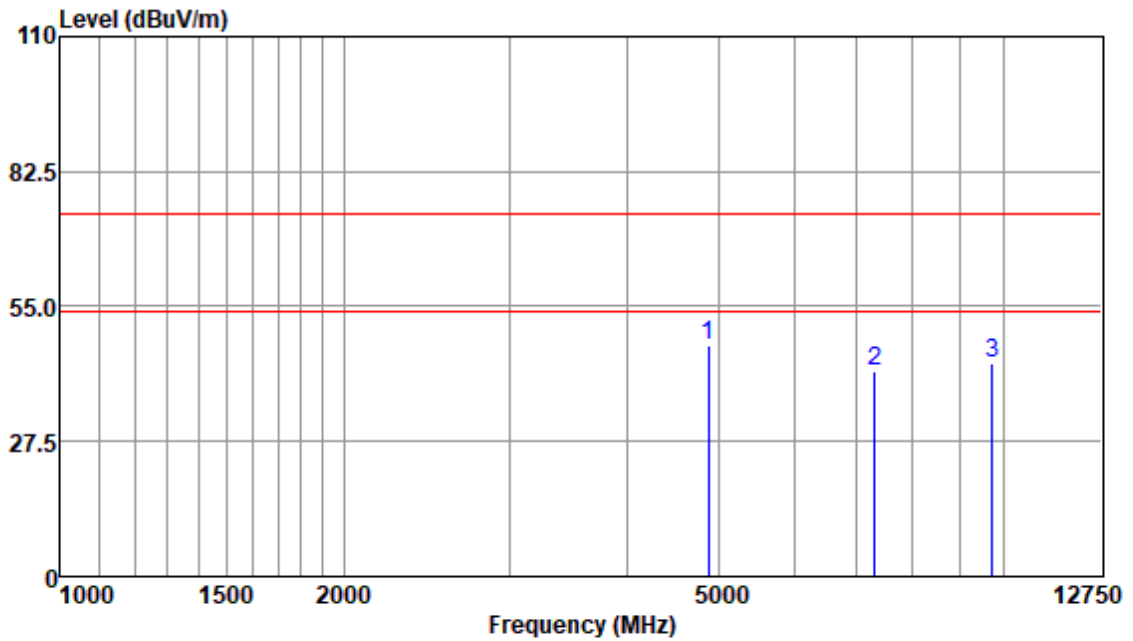
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4824.00	46.49	30.91	5.01	43.68	74.00	-30.32	Peak
7236.00	39.01	33.40	5.78	41.03	74.00	-32.97	Peak
9648.00	37.33	35.14	6.65	44.95	74.00	-29.05	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

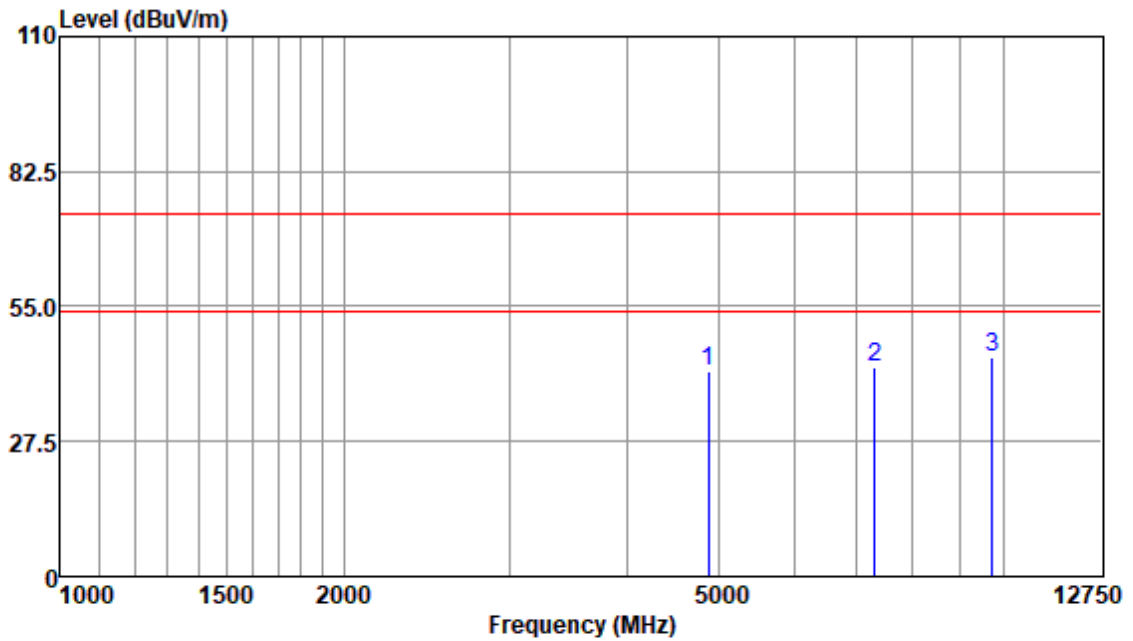
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	50.29	31.06	4.48	47.05	74.00	-26.95	Peak
7311.00	39.70	33.47	5.80	41.86	74.00	-32.14	Peak
9748.00	36.22	35.10	6.46	43.63	74.00	-30.37	Peak

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

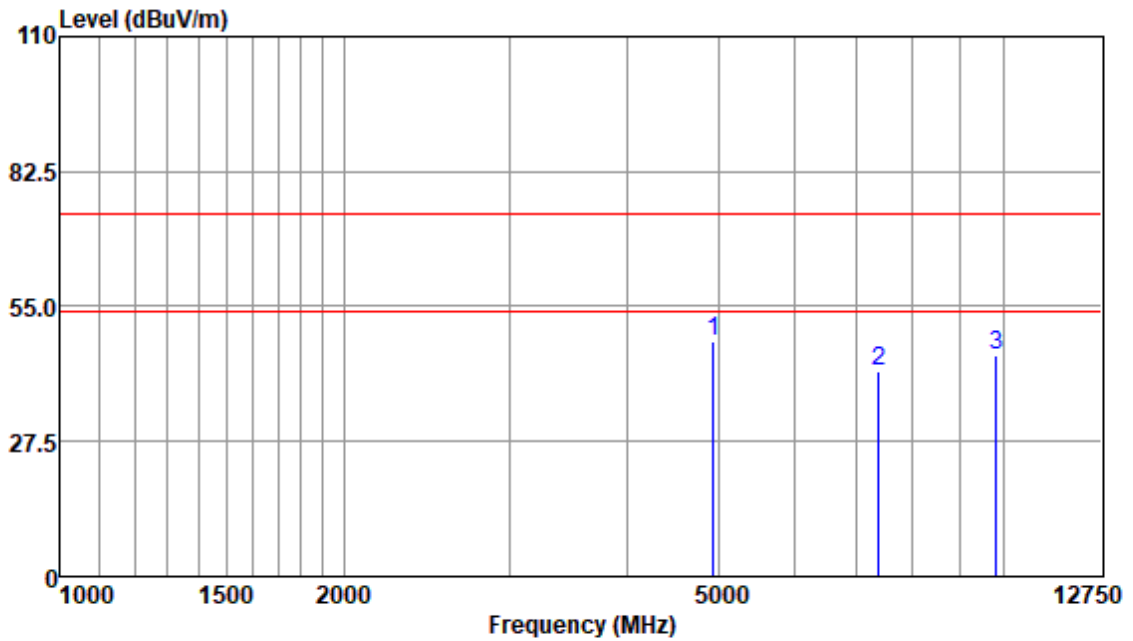
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
4874.00	45.06	31.06	4.48	41.82	74.00	-32.18	Peak
7311.00	40.45	33.47	5.80	42.61	74.00	-31.39	Peak
9748.00	37.32	35.10	6.46	44.73	74.00	-29.27	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

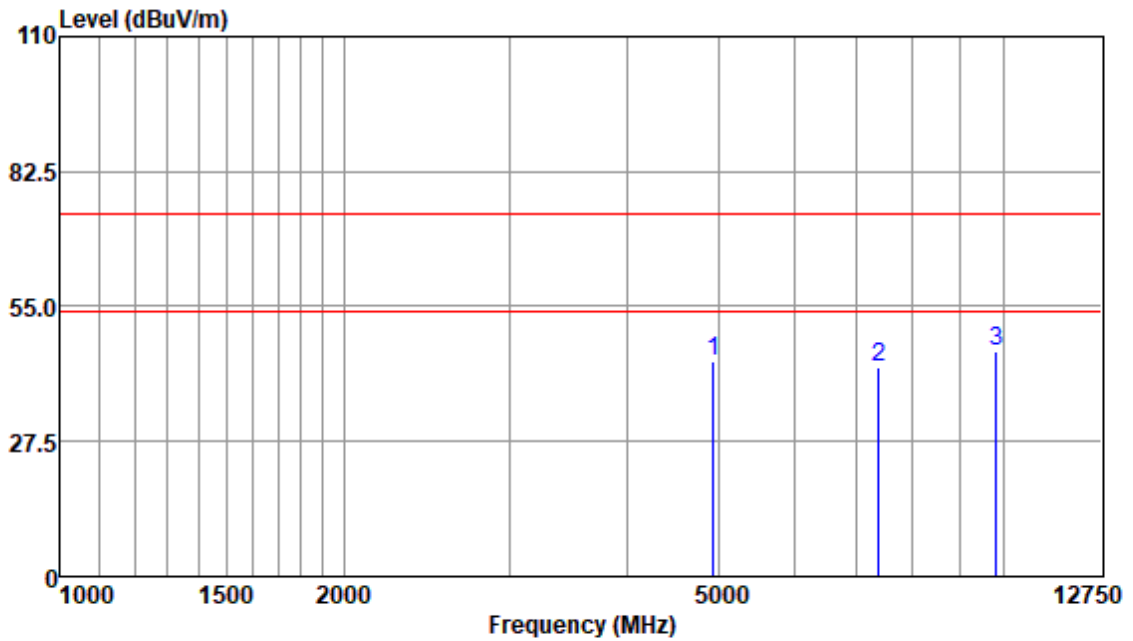
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
4924.00	51.09	31.21	4.30	47.77	74.00	-26.23	Peak
7386.00	39.00	33.58	6.35	41.87	74.00	-32.13	Peak
9848.00	37.78	35.07	6.53	45.25	74.00	-28.75	Peak

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

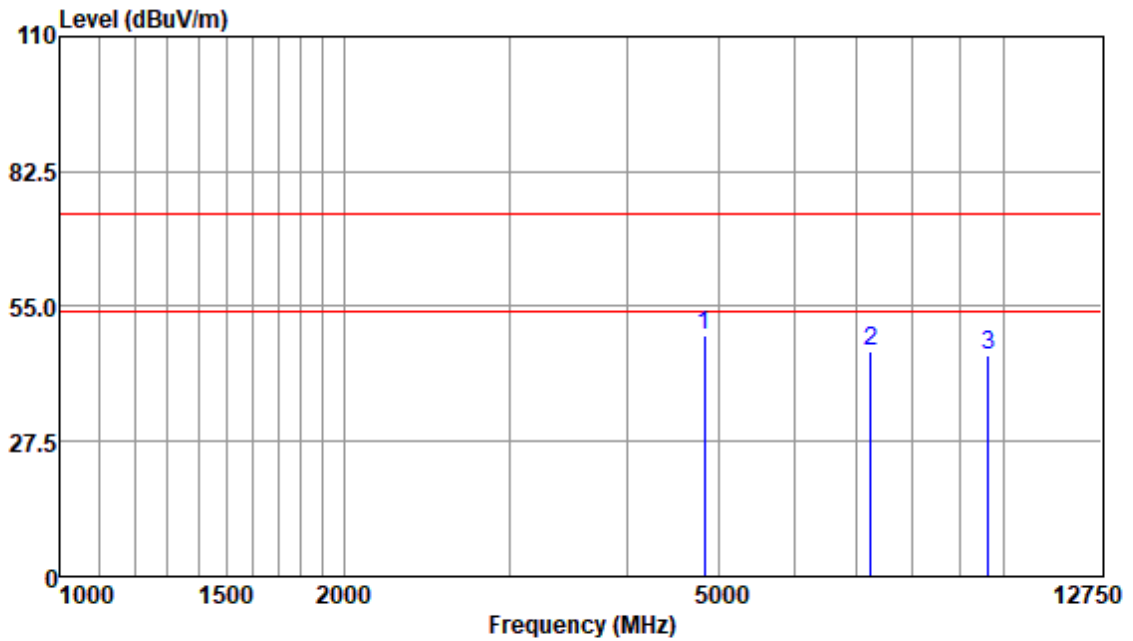
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4924.00	47.20	31.21	4.30	43.88	74.00	-30.12	Peak
7386.00	39.56	33.58	6.35	42.43	74.00	-31.57	Peak
9848.00	38.55	35.07	6.53	46.02	74.00	-27.98	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

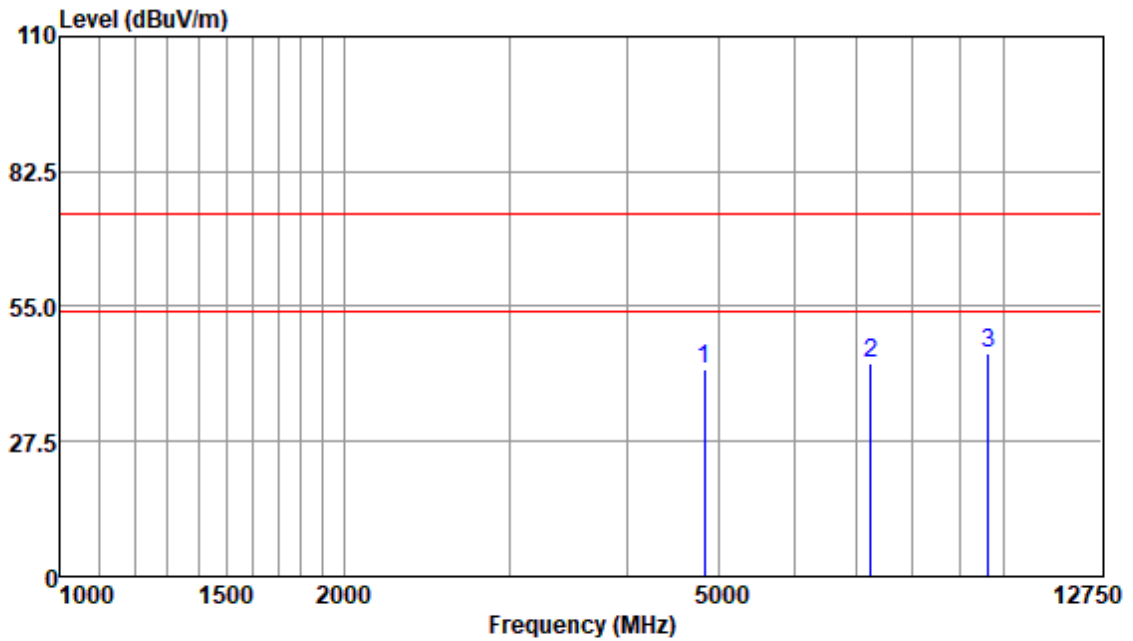
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
4824.00	51.89	30.91	5.01	49.08	74.00	-24.92	Peak
7236.00	44.01	33.40	5.78	46.03	74.00	-27.97	Peak
9648.00	37.42	35.14	6.65	45.04	74.00	-28.96	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

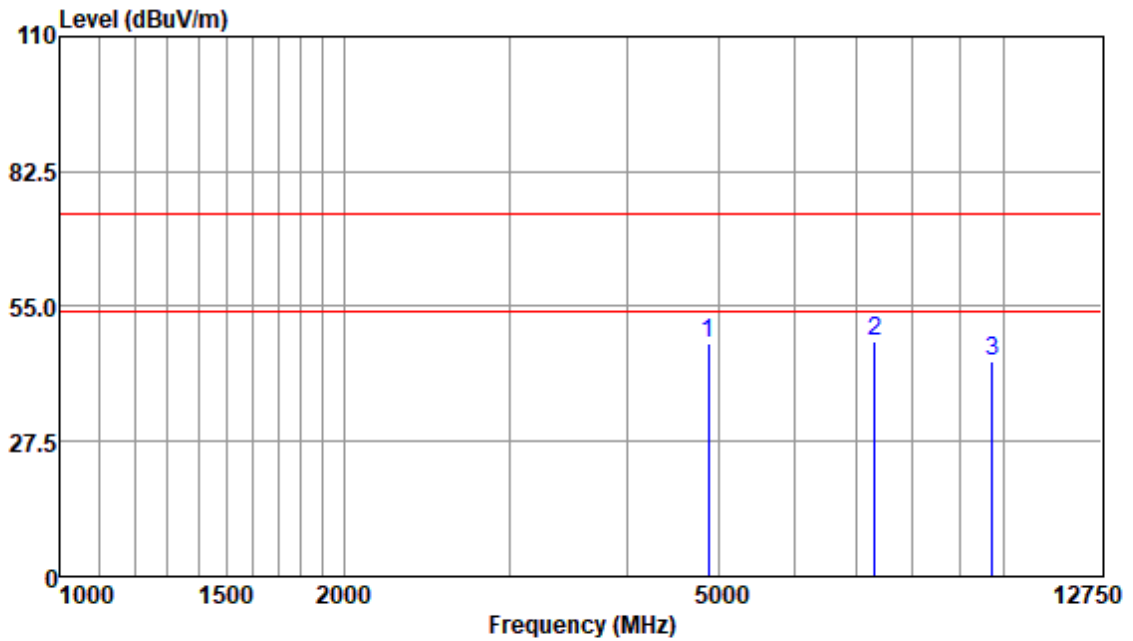
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4824.00	45.06	30.91	5.01	42.25	74.00	-31.75	Peak
7236.00	41.57	33.40	5.78	43.59	74.00	-30.41	Peak
9648.00	37.93	35.14	6.65	45.55	74.00	-28.45	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

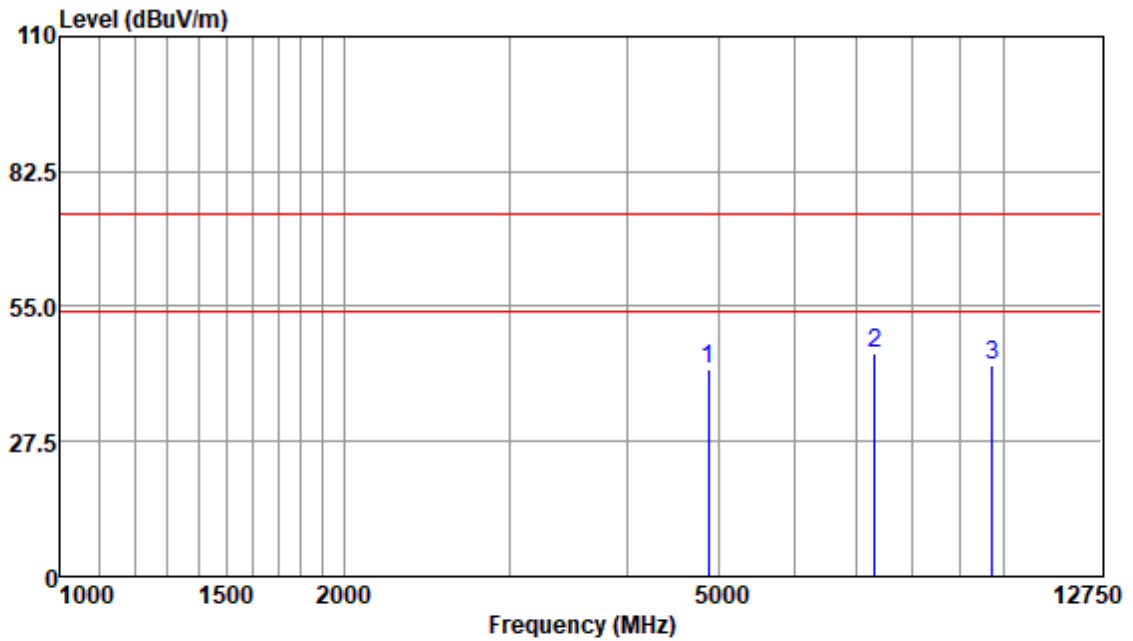
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	50.73	31.06	4.48	47.49	74.00	-26.51	Peak
7311.00	45.68	33.47	5.80	47.84	74.00	-26.16	Peak
9748.00	36.25	35.10	6.46	43.66	74.00	-30.34	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

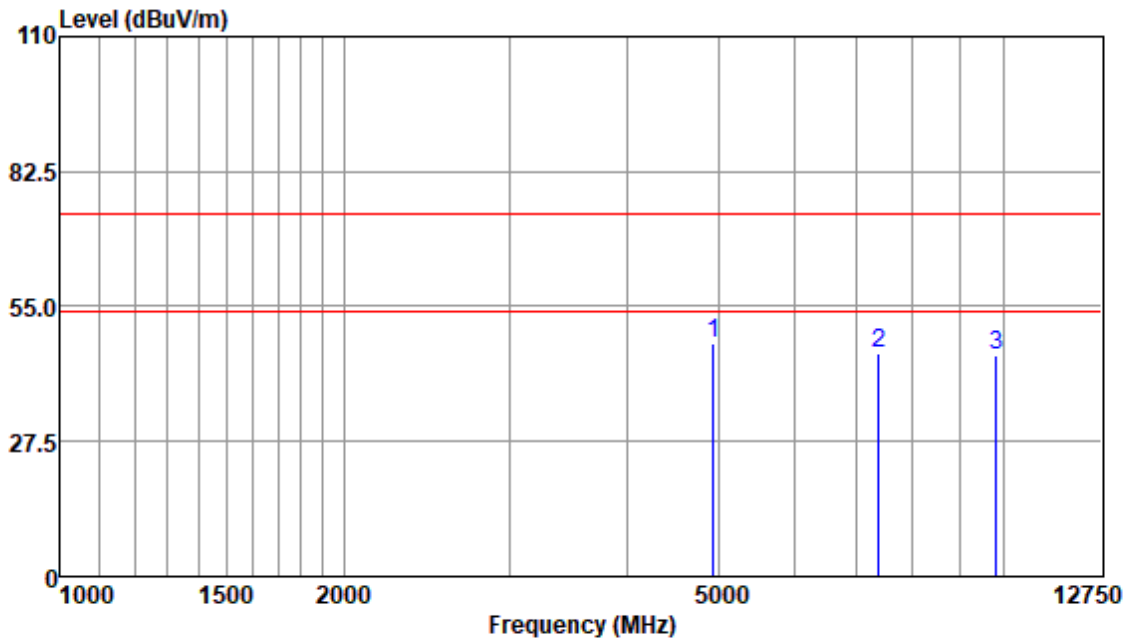
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	45.30	31.06	4.48	42.06	74.00	-31.94	Peak
7311.00	43.26	33.47	5.80	45.42	74.00	-28.58	Peak
9748.00	35.64	35.10	6.46	43.05	74.00	-30.95	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

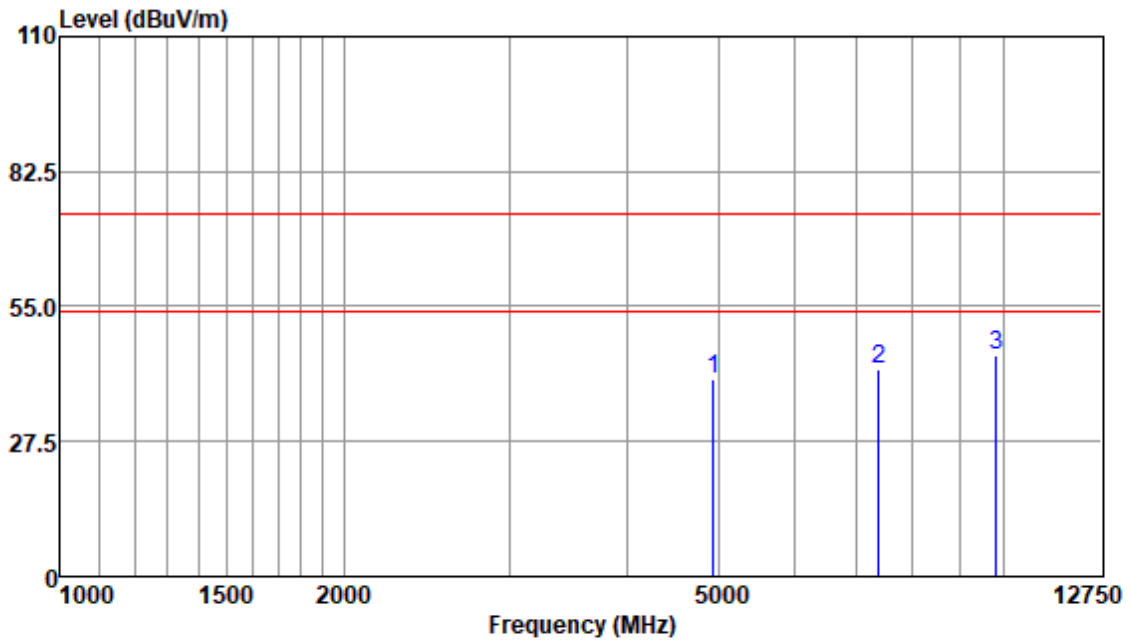
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4924.00	50.96	31.21	4.30	47.64	74.00	-26.36	Peak
7386.00	42.60	33.58	6.35	45.47	74.00	-28.53	Peak
9848.00	37.74	35.07	6.53	45.21	74.00	-28.79	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

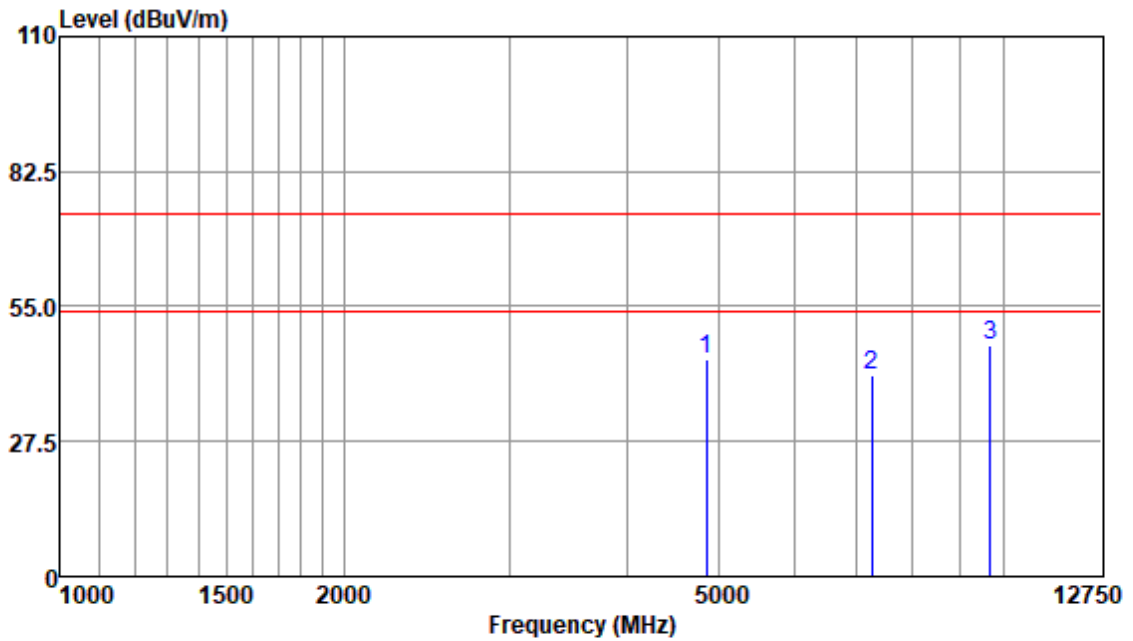
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4924.00	43.54	31.21	4.30	40.22	74.00	-33.78	Peak
7386.00	39.24	33.58	6.35	42.11	74.00	-31.89	Peak
9848.00	37.71	35.07	6.53	45.18	74.00	-28.82	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

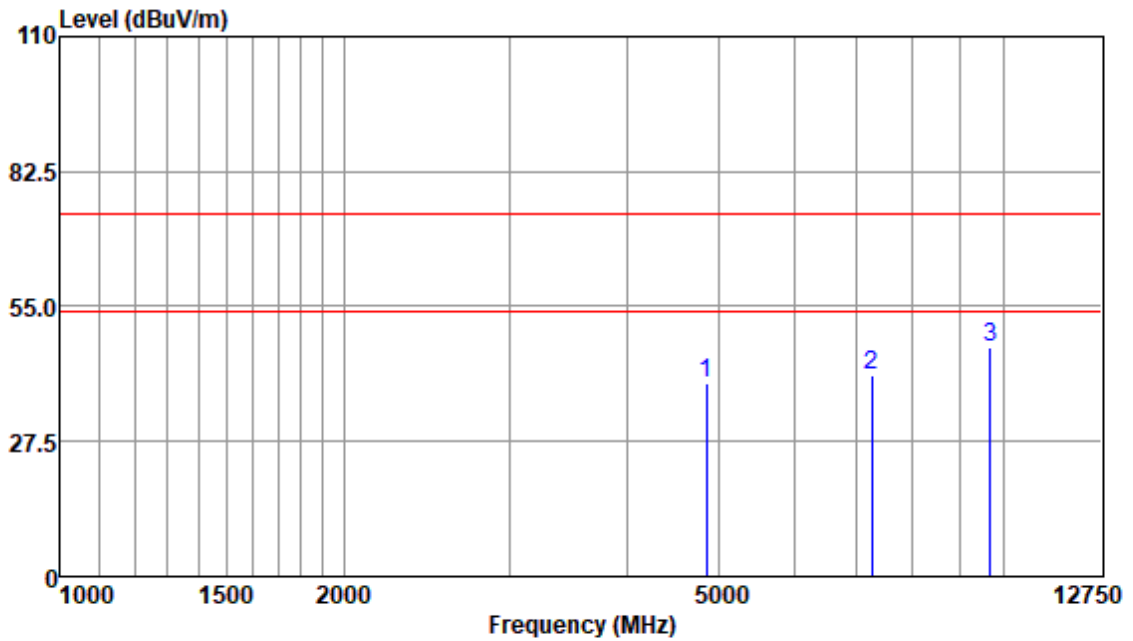
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4844.00	47.18	30.98	4.77	44.19	74.00	-29.81	Peak
7266.00	38.96	33.42	5.78	41.03	74.00	-32.97	Peak
9688.00	39.69	35.12	6.59	47.24	74.00	-26.76	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

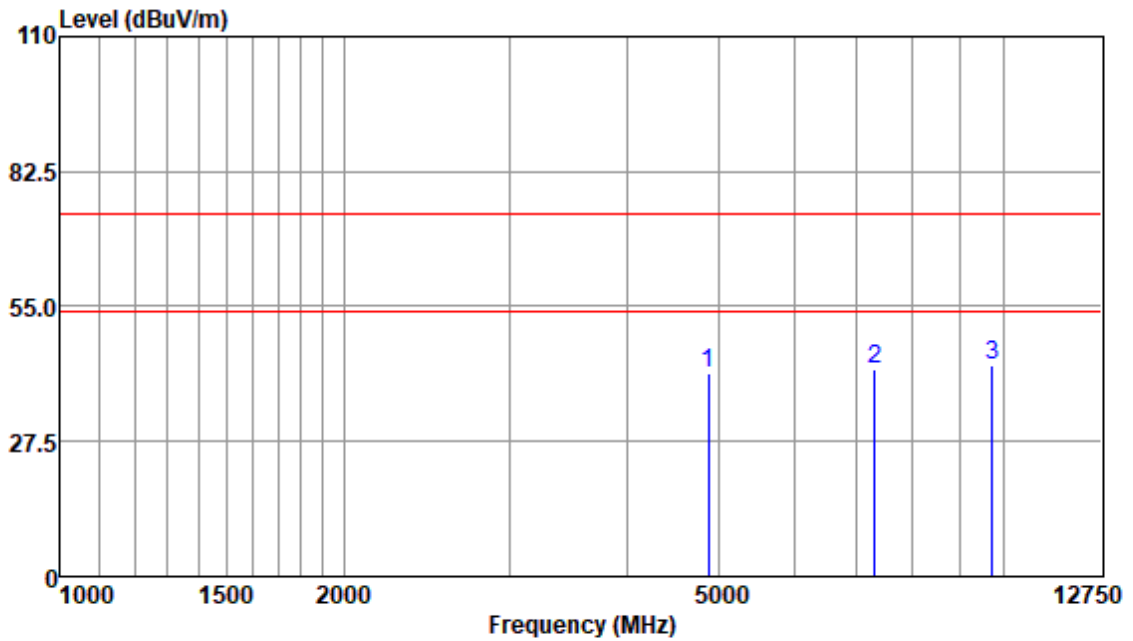
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4844.00	42.27	30.98	4.77	39.28	74.00	-34.72	Peak
7266.00	38.96	33.42	5.78	41.03	74.00	-32.97	Peak
9688.00	39.15	35.12	6.59	46.70	74.00	-27.30	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

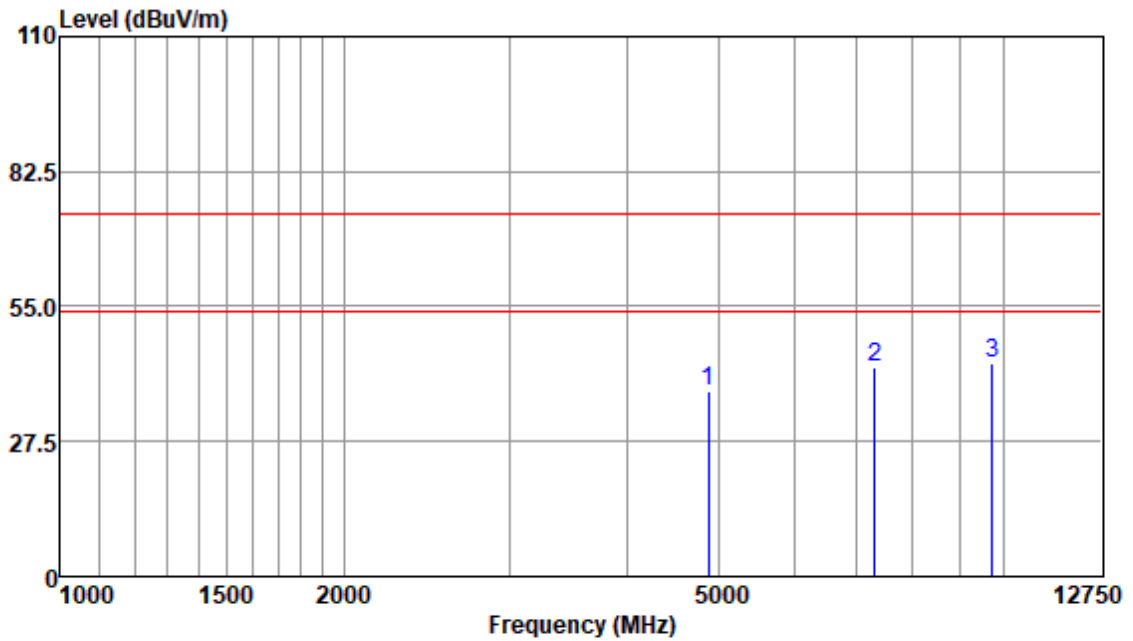
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	44.61	31.06	4.48	41.37	74.00	-32.63	Peak
7311.00	39.85	33.47	5.80	42.01	74.00	-31.99	Peak
9748.00	35.79	35.10	6.46	43.20	74.00	-30.80	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



Antenna Polarity :VERTICAL

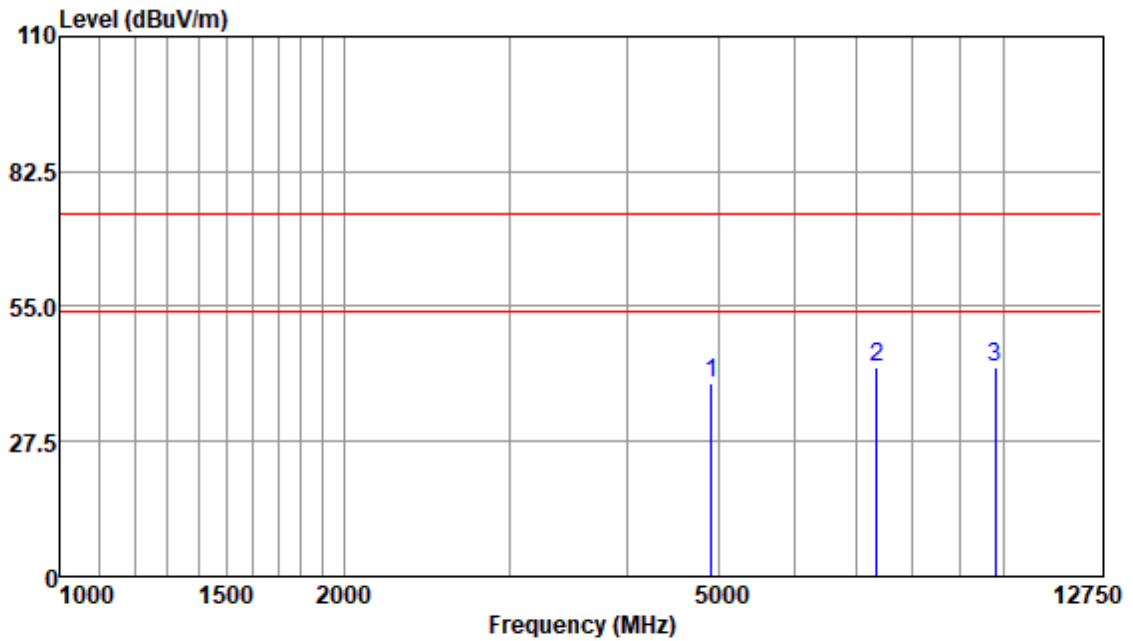
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4874.00	40.90	31.06	4.48	37.66	74.00	-36.34	Peak
7311.00	40.51	33.47	5.80	42.67	74.00	-31.33	Peak
9748.00	35.97	35.10	6.46	43.38	74.00	-30.62	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

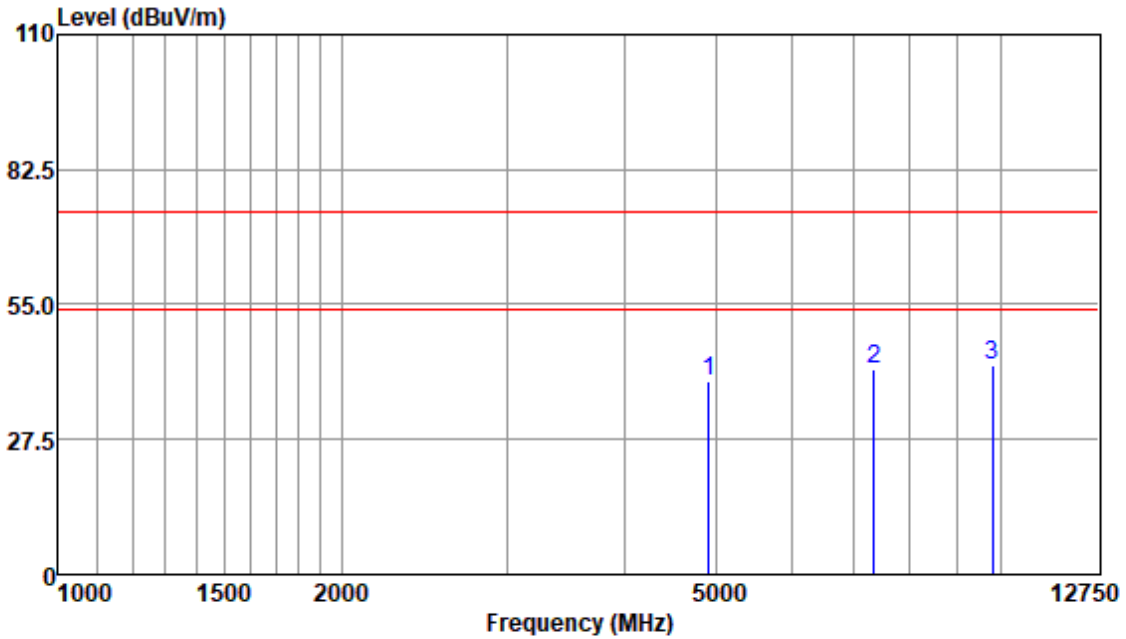
Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4904.00	43.07	31.14	4.13	39.53	74.00	-34.47	Peak
7356.00	40.09	33.53	6.17	42.71	74.00	-31.29	Peak
9808.00	35.12	35.08	6.50	42.56	74.00	-31.44	Peak

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
4904.00	42.85	31.14	4.13	39.31	74.00	-34.69	Peak
7356.00	39.08	33.53	6.17	41.70	74.00	-32.30	Peak
9808.00	35.34	35.08	6.50	42.78	74.00	-31.22	Peak

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



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

8 EUT Constructional Details

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

- End of the Report -



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