

# TEST REPORT

**Application No.:** SHCR2111000712ME  
**FCC ID:** 2AY4E-DVMB  
**IC:** 27001-DVMB  
**Applicant:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Applicant:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China  
**Manufacturer:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Manufacturer:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China  
**Factory:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Factory:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China

**Equipment Under Test (EUT):**

**EUT Name:** Digital Video Monitor  
**Model No.:** DVM-B1, DVM-B2  
 □ 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 E 15.407  
 RSS-247 Issue 2, February 2017  
 RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2021-11-09  
**Date of Test:** 2021-11-12 to 2022-01-05  
**Date of Issue:** 2022-01-06

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

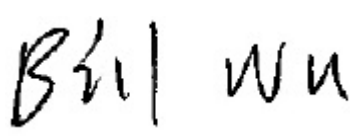
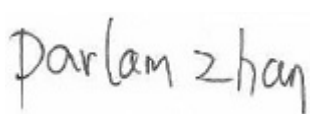
*Parlam Zhan*

Parlam Zhan  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-01-06	/

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Bill Wu / Project Engineer</b>	
			
		<hr/> <b>Parlam Zhan / Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	47 CFR Part 15, Subpart C 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8	Pass

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DVM-B1 was tested since their differences were the model number and appearance.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 11.1V 9000mAh rechargeable battery  
 Charging adapter:  
 Model:HPU63A-106  
 Input:100-240V~47-63Hz  
 Output:15V 4.2A  
 Test voltage: AC 120V/60Hz

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	Band 1	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	Band 2A	802.11a/n(HT20)/ac(HT20)	5260-5320	4
		802.11n(HT40)/ac(HT40)	5270-5310	2
		802.11ac(HT80)	5290	1
	Band 2C	802.11a/n(HT20)/ac(HT20)	5500-5700	11
		802.11n(HT40)/ac(HT40)	5510-5670	5
		802.11ac(HT80)	5530-5610	2
Band 3	802.11a/n(HT20)/ac(HT20)	5745-5825	5	
	802.11n(HT40)/ac(HT40)	5755-5795	2	
	802.11ac(HT80)	5775	1	
Note: 5600MHz to 5650MHz band can not be operated in Canada				
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Date Rate:	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7 802.11ac:VHT MCS0-MCS7			
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz			
Antenna Gain:	2dBi (Provided by manufacturer)			
Antenna Type:	FPC Antenna			
SN:	Q2110053			
Firmware:	7.1.2			
Hardware Version:	V1			
Software Version:	V1			



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TPC Function	Not Support
DFS Function:	Slave without Radar detection

#### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/

#### 4.3 Power level setting using in test:

Band	802.11 a	802.11 n (HT20)	802.11 n (HT40)	802.11 ac (VHT20)	802.11 ac (VHT40)	802.11 ac (VHT80)
NII 1	12	12	12	12	12	12
NII 2A	12	12	12	12	12	12
NII 2C	12	12	12	12	12	12
NII 3	12	12	12	12	12	12

#### 4.4 Measurement Uncertainty

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

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



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#### 4.5 Test Location

All tests were performed at:

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

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

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.6 Test Facility

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

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

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>					
EMI test receiver	R&S	ESR7	SHEM162-1	2021-12-20	2022-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2021-12-20	2022-12-19
LISN	EMCO	3816/2	SHEM019-1	2021-12-20	2022-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2021-12-20	2022-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2021-12-20	2022-12-19
CE test Cable	/	CE01	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	/	/
<b>RF Conducted Test</b>					
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	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01-RF04	/	2021-12-20	2022-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
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	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	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	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	/	/



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LISN	Schwarzbeck	NSLK8127	SHEM061-1	2020-12-20	2021-12-19
LISN	EMCO	3816/2	SHEM019-1	2020-12-20	2021-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2020-12-20	2021-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020-12-20	2021-12-19
CE test Cable	/	CE01	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.111221a	/	/
<b>RF Conducted Test</b>					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2020-08-13	2021-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2020-08-13	2021-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2020-08-13	2021-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2020-08-13	2021-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2020-08-13	2021-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2020-08-13	2021-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	/	2020-12-20	2021-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2021-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2020-08-13	2021-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2020-08-13	2021-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2020-08-13	2021-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.111221a	/	/



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is FPC antenna and no consideration of replacement. The best case gain of the antenna is 2dBi.

Antenna location: Refer to Appendix (Internal Photos)



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## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (AP6256) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Pretest these mode to find the worst case: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

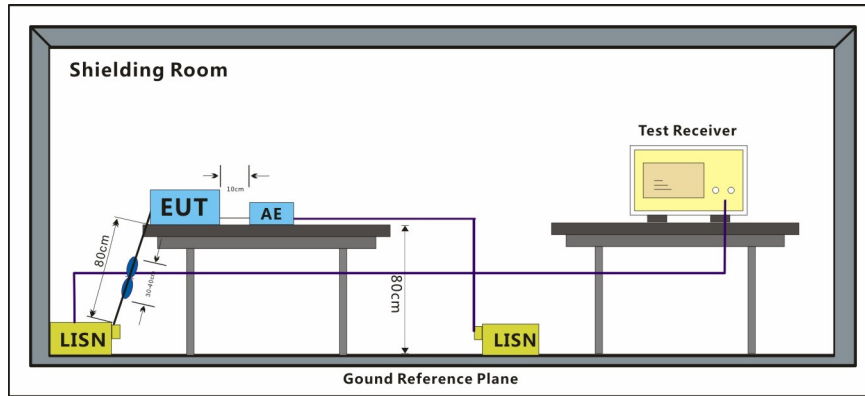
The worst case for final test:

b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.1.2 Test Setup Diagram



### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

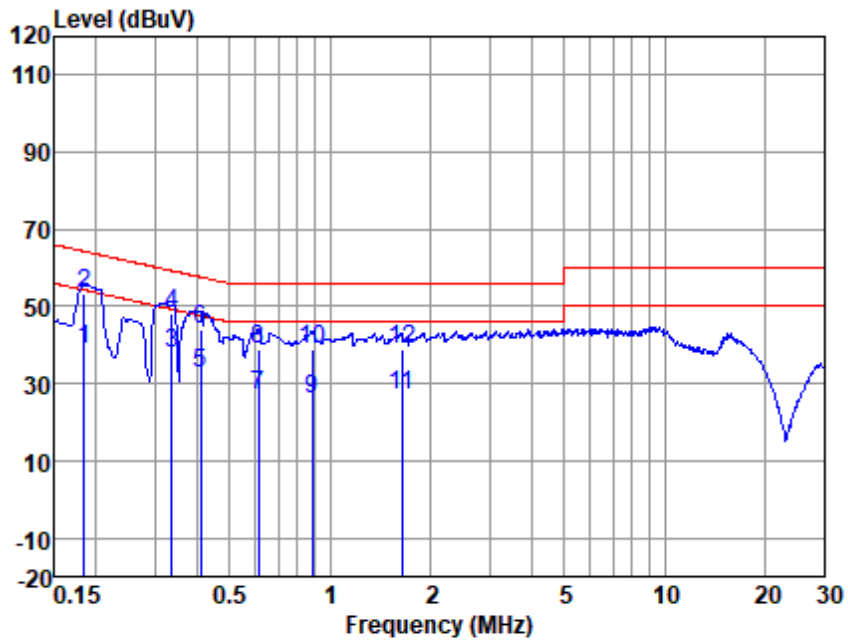


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Mode:b; Line:Live Line



LISN : LINE  
 EUT/Project No : 00712ME  
 Test Mode : b

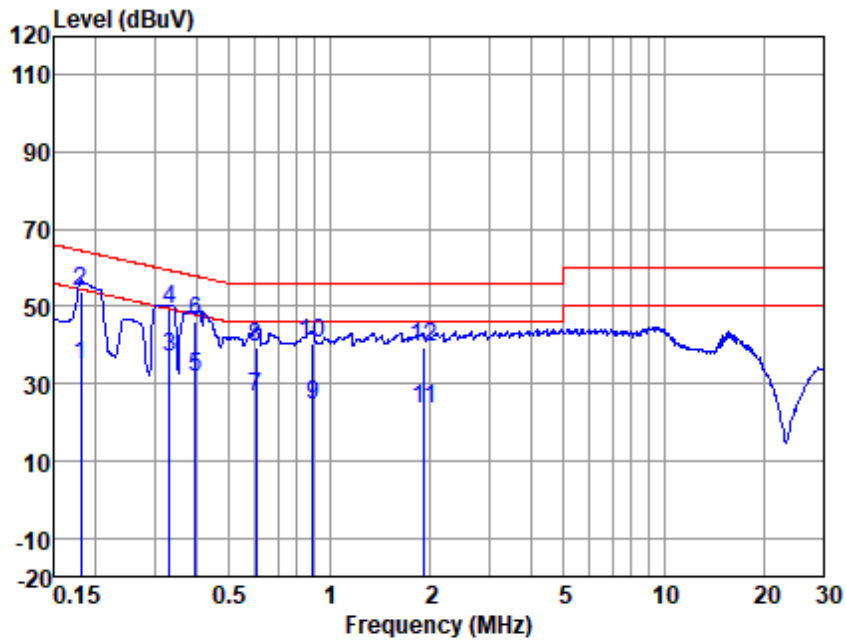
Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	29.01	0.20	9.92	39.13	54.33	-15.20	Average
2	43.37	0.20	9.92	53.49	64.33	-10.84	QP
3	27.55	0.20	9.94	37.69	49.27	-11.58	Average
4	38.00	0.20	9.94	48.14	59.27	-11.13	QP
5	22.49	0.20	9.93	32.62	47.64	-15.02	Average
6	34.00	0.20	9.93	44.13	57.64	-13.51	QP
7	16.68	0.20	9.91	26.79	46.00	-19.21	Average
8	29.00	0.20	9.91	39.11	56.00	-16.89	QP
9	15.80	0.20	9.90	25.90	46.00	-20.10	Average
10	29.00	0.20	9.90	39.10	56.00	-16.90	QP
11	16.82	0.20	9.93	26.95	46.00	-19.05	Average
12	29.00	0.20	9.93	39.13	56.00	-16.87	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:b; Line:Neutral Line



LISN : NEUTRAL  
 EUT/Project No : 00712ME  
 Test Mode : b

Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark	
1	0.18	24.43	0.20	9.92	34.55	54.50	-19.95	Average
2	0.18	43.60	0.20	9.92	53.72	64.50	-10.78	QP
3	0.33	26.85	0.20	9.94	36.99	49.40	-12.41	Average
4	0.33	38.99	0.20	9.94	49.13	59.40	-10.27	QP
5	0.40	21.40	0.20	9.93	31.53	47.90	-16.37	Average
6	0.40	35.91	0.20	9.93	46.04	57.90	-11.86	QP
7	0.60	16.18	0.20	9.92	26.30	46.00	-19.70	Average
8	0.60	29.21	0.20	9.92	39.33	56.00	-16.67	QP
9	0.89	14.10	0.20	9.90	24.20	46.00	-21.80	Average
10	0.89	30.39	0.20	9.90	40.49	56.00	-15.51	QP
11	1.92	13.32	0.20	9.94	23.46	46.00	-22.54	Average
12	1.92	29.23	0.20	9.94	39.37	56.00	-16.63	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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## 7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

### 7.2.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

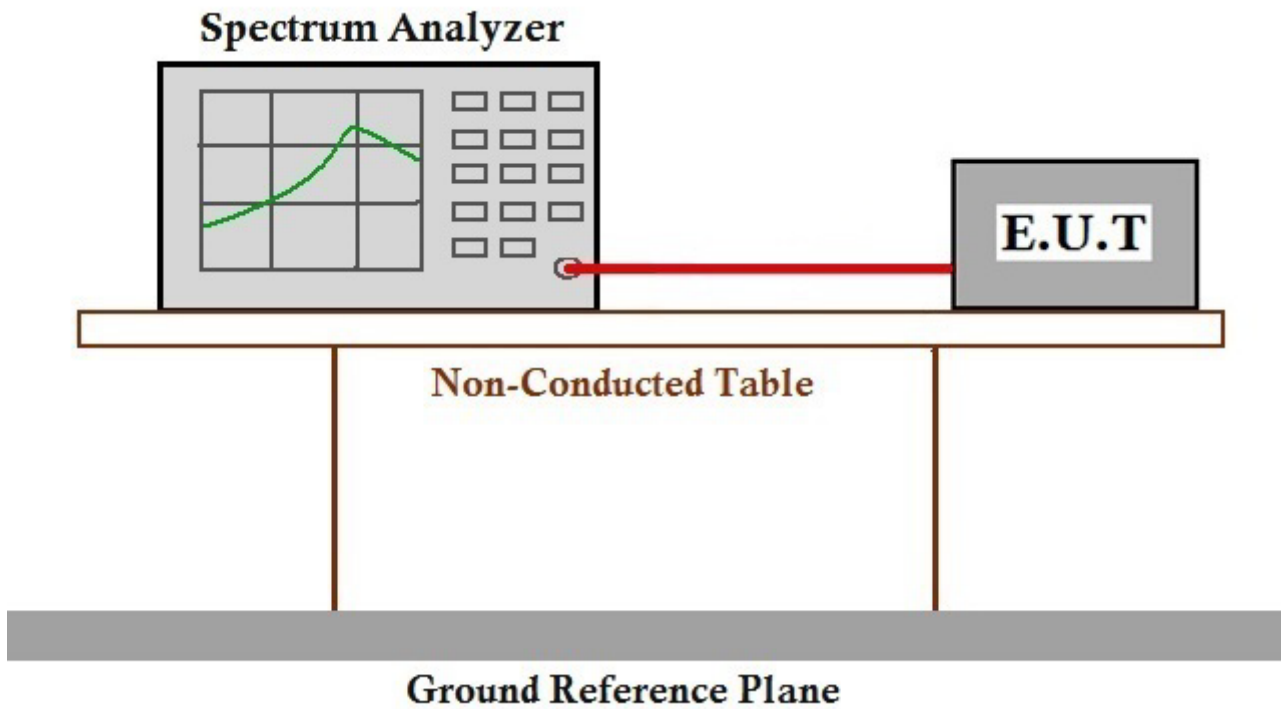
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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### 7.3 99% Bandwidth

Test Requirement N/A  
Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

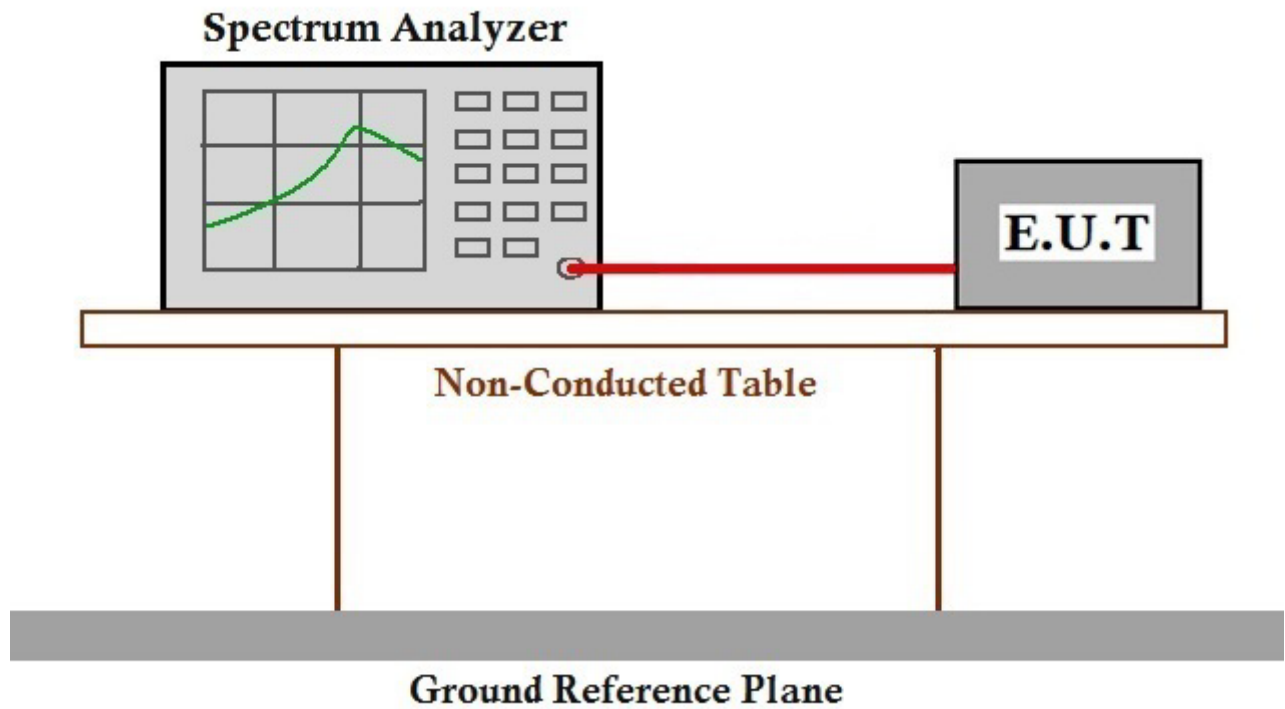
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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### 7.3.2 Test Setup Diagram



### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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### 7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

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

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

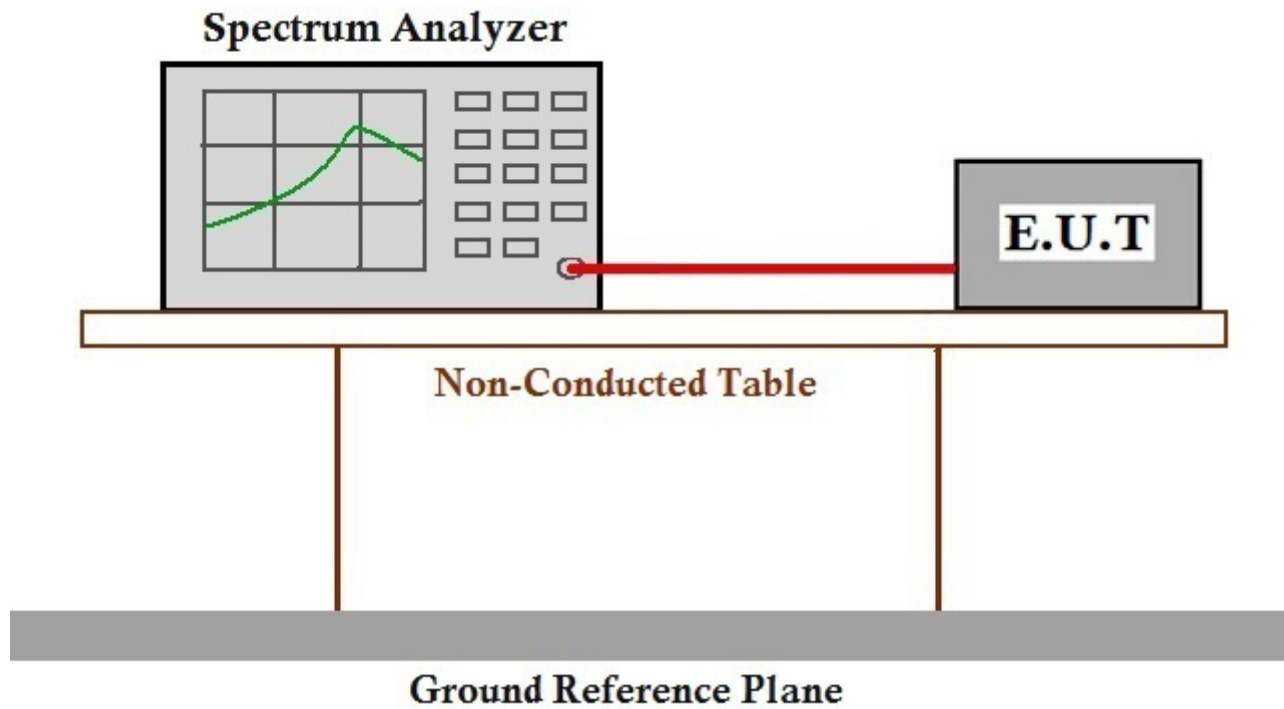
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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**7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)  
 Test Method: KDB 789033 D02 II C 2  
 Limit: ≥500 kHz

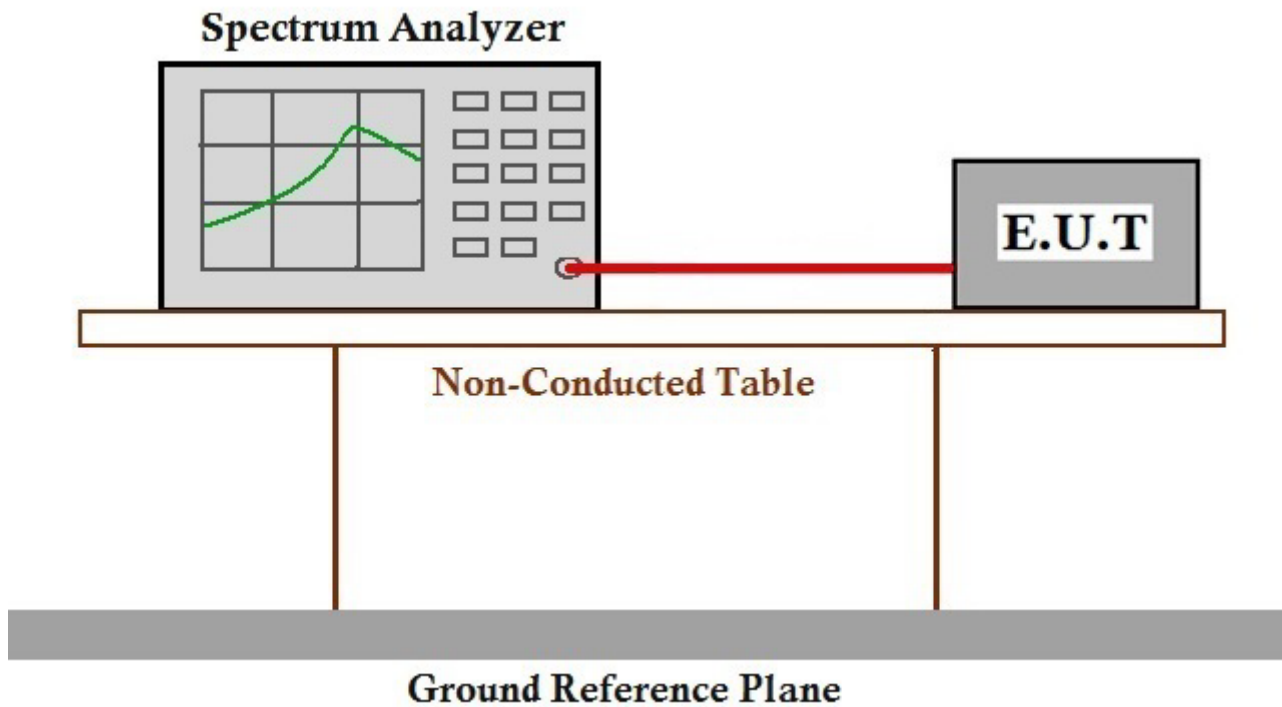
**7.5.1 E.U.T. Operation**

Operating Environment:

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

Test mode e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

**7.5.2 Test Setup Diagram**



**7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHCR211100071202



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**7.6 Maximum Conducted output power**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> <p>For IC 5150MHz to 5250MHz limit is EIRP ≤200mW(23dBm)</p>



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7.6.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

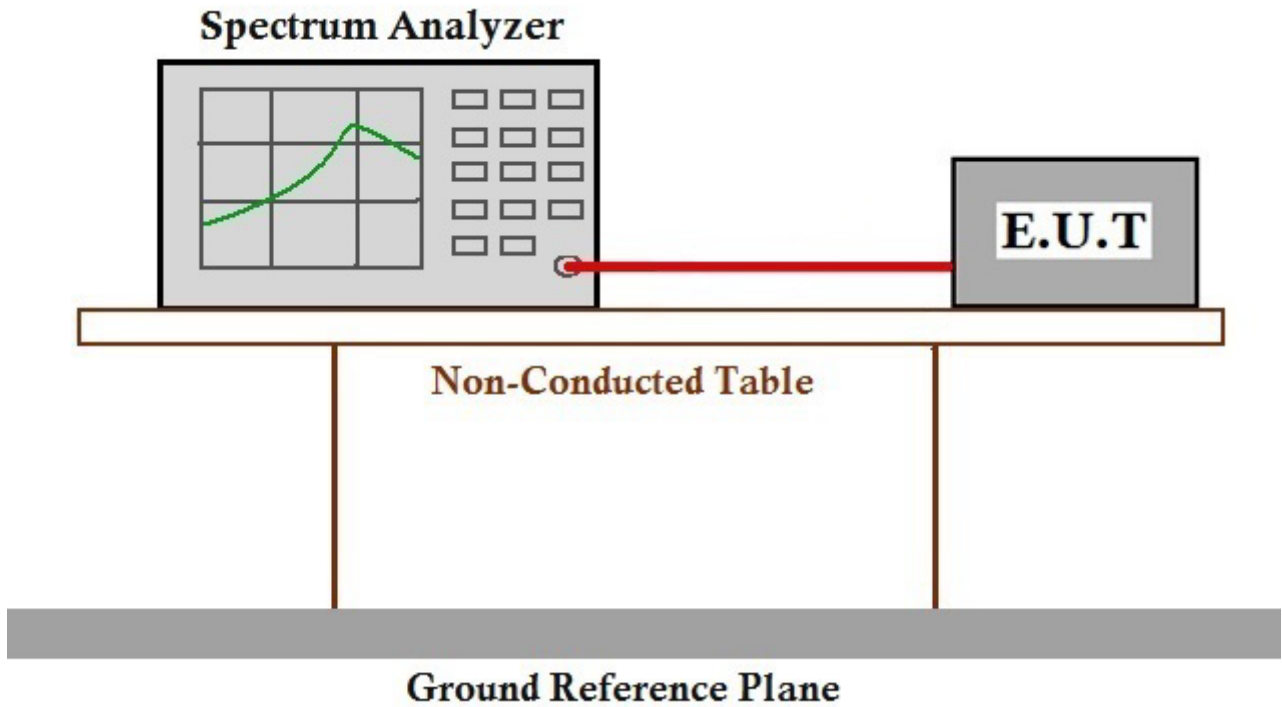
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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**7.7 Peak Power spectrum density**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. For IC 5150MHz to 5250MHz limit is EIRP PSD ≤ 10dBm/MHz



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7.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

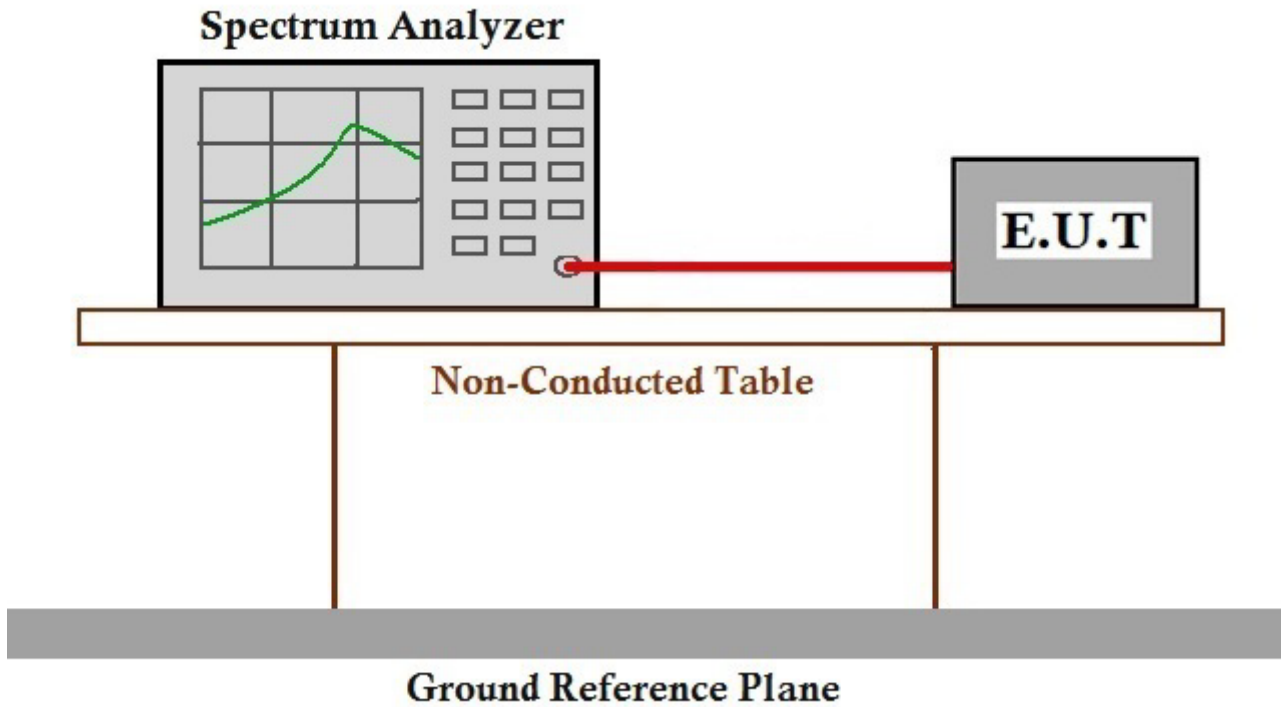
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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### 7.8 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

**Limit:**

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.



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(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn  
(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

7.8.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

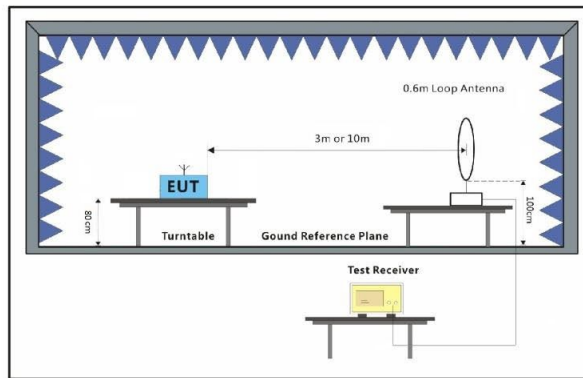
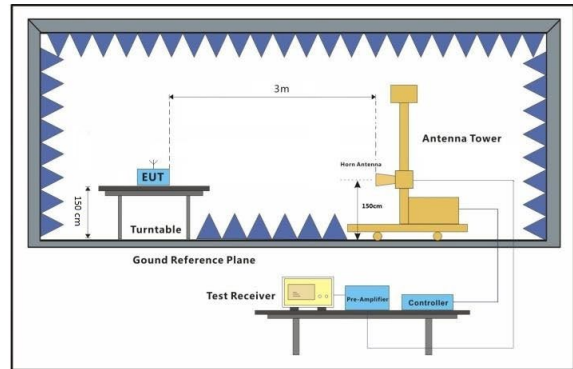
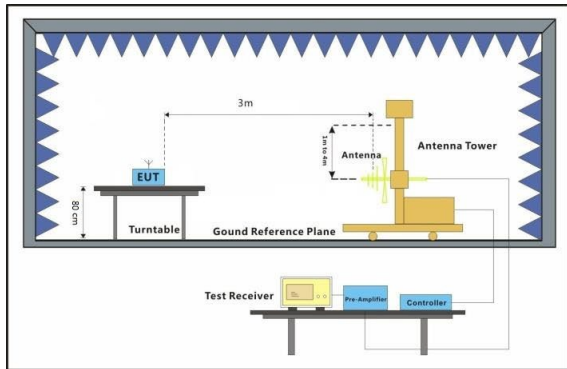
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.8.2 Test Setup Diagram



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### 7.8.3 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:

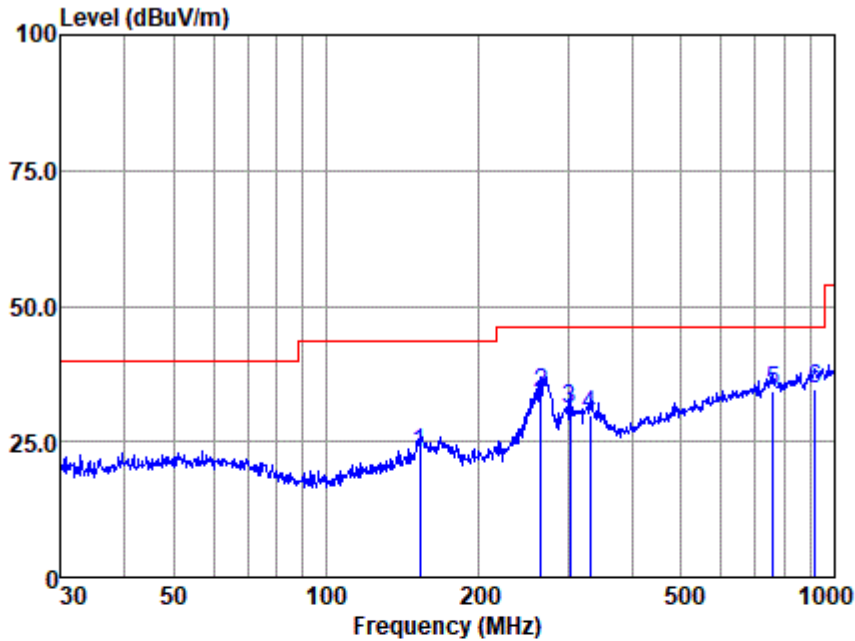
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. 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. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Below 1GHz



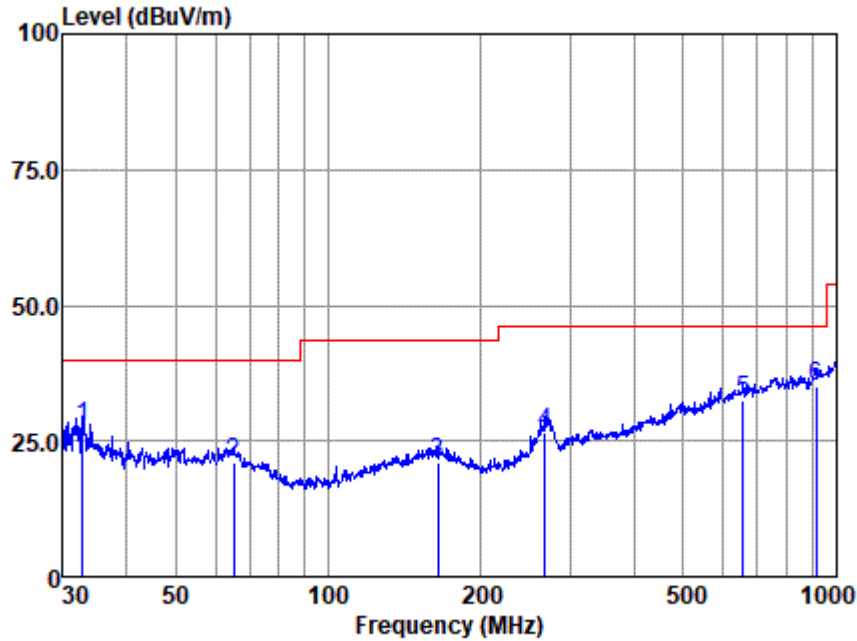
Antenna Polarity :HORIZONTAL  
 EUT/Project : 00712ME  
 Test mode :

	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	
1	152.664	39.51	12.98	1.87	31.34	23.02	43.50	-20.48	QP
2	264.746	50.16	12.29	2.67	31.13	33.99	46.00	-12.01	QP
3	301.422	45.86	13.33	2.83	31.07	30.95	46.00	-15.05	QP
4	331.355	43.55	14.08	2.93	30.85	29.71	46.00	-16.29	QP
5	760.704	38.84	22.14	4.40	31.08	34.30	46.00	-11.70	QP
6	919.287	37.83	23.64	4.85	31.78	34.54	46.00	-11.46	QP

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



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Antenna Polarity : VERTICAL  
 EUT/Project : 00712ME  
 Test mode :

	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	32.749	46.31	12.31	0.81	31.79	27.64	40.00	-12.36 QP
2	65.114	38.85	12.37	1.17	31.42	20.97	40.00	-19.03 QP
3	164.330	37.43	13.02	1.94	31.25	21.14	43.50	-22.36 QP
4	266.609	42.78	12.37	2.70	31.18	26.67	46.00	-19.33 QP
5	656.530	39.00	20.37	4.10	30.93	32.54	46.00	-13.46 QP
6	912.862	38.73	23.56	4.81	31.87	35.23	46.00	-10.77 QP

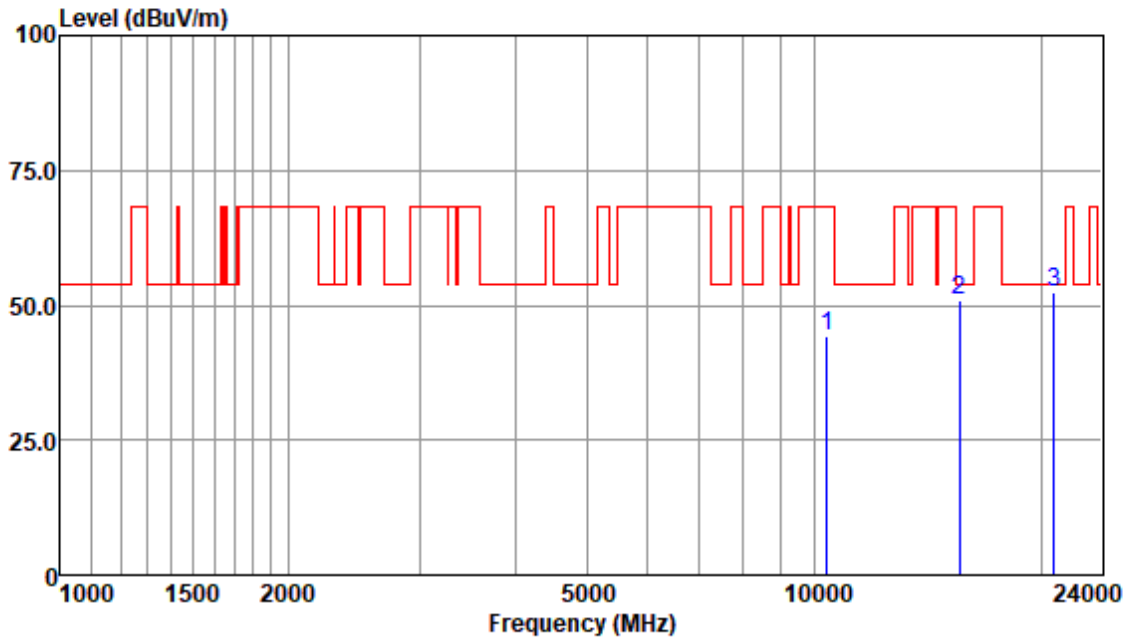
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Above 1GHz

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



Antenna Polarity :HORIZONTAL

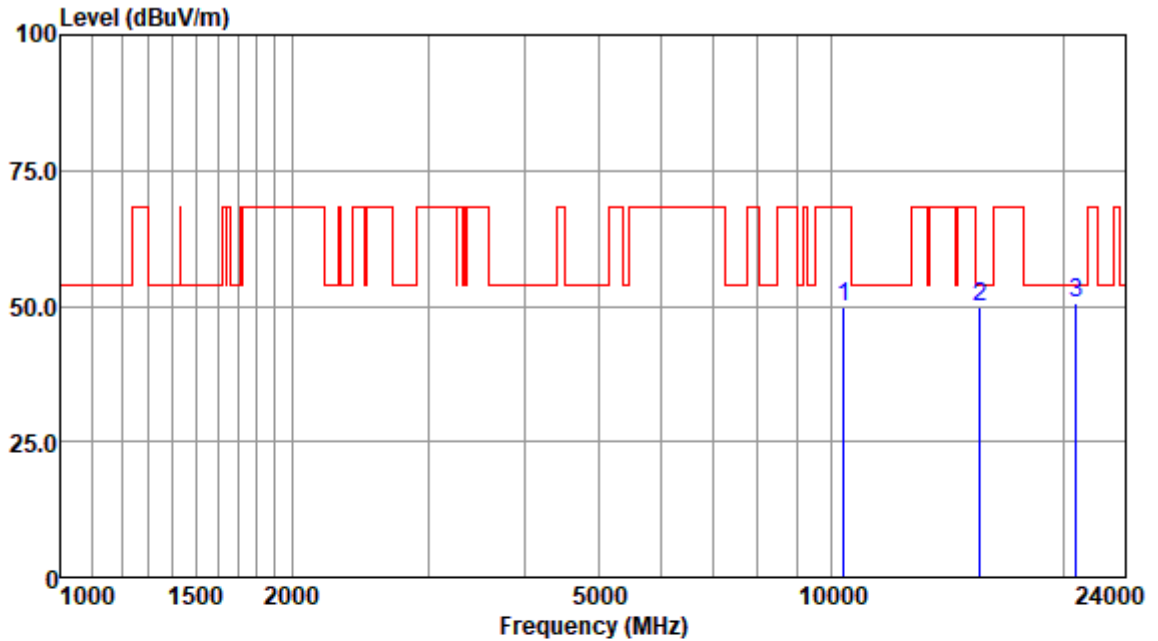
Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
10360.00	37.05	34.93	6.53	34.40	44.11	68.20	-24.09	Peak	
15540.00	40.40	37.43	9.99	36.78	51.04	54.00	-2.96	Peak	
20720.00	33.17	43.41	11.90	36.05	52.43	54.00	-1.57	Peak	

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10360.00	42.64	34.93	6.53	34.40	49.70	68.20	-18.50	Peak
15540.00	39.16	37.43	9.99	36.78	49.80	54.00	-4.20	Peak
20720.00	31.34	43.41	11.90	36.05	50.60	54.00	-3.40	Peak

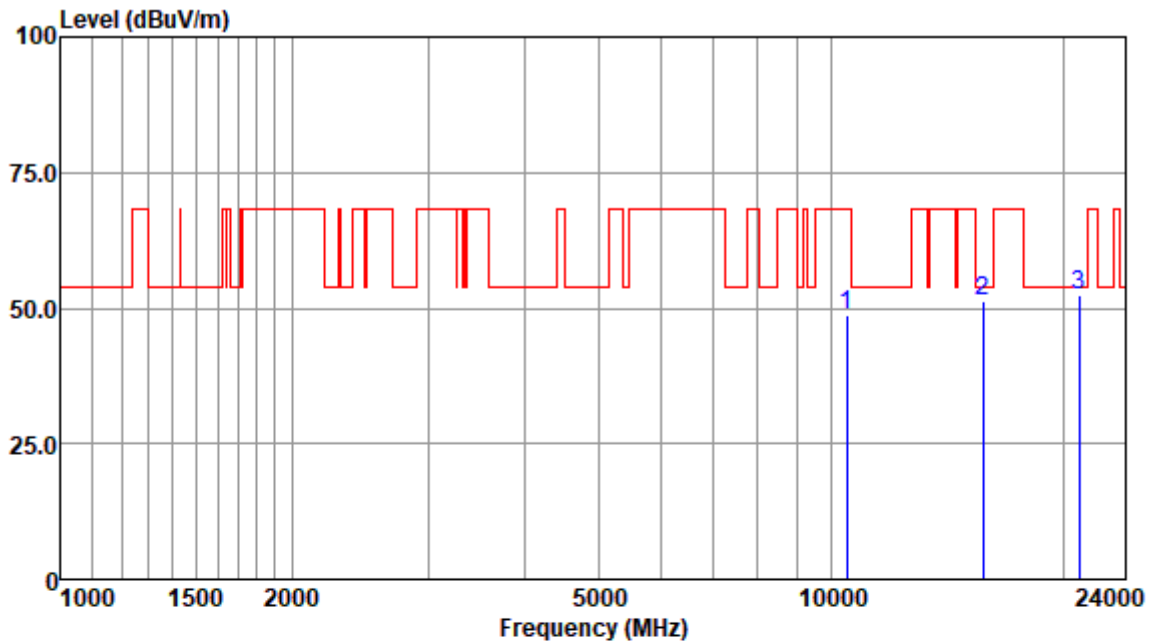
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

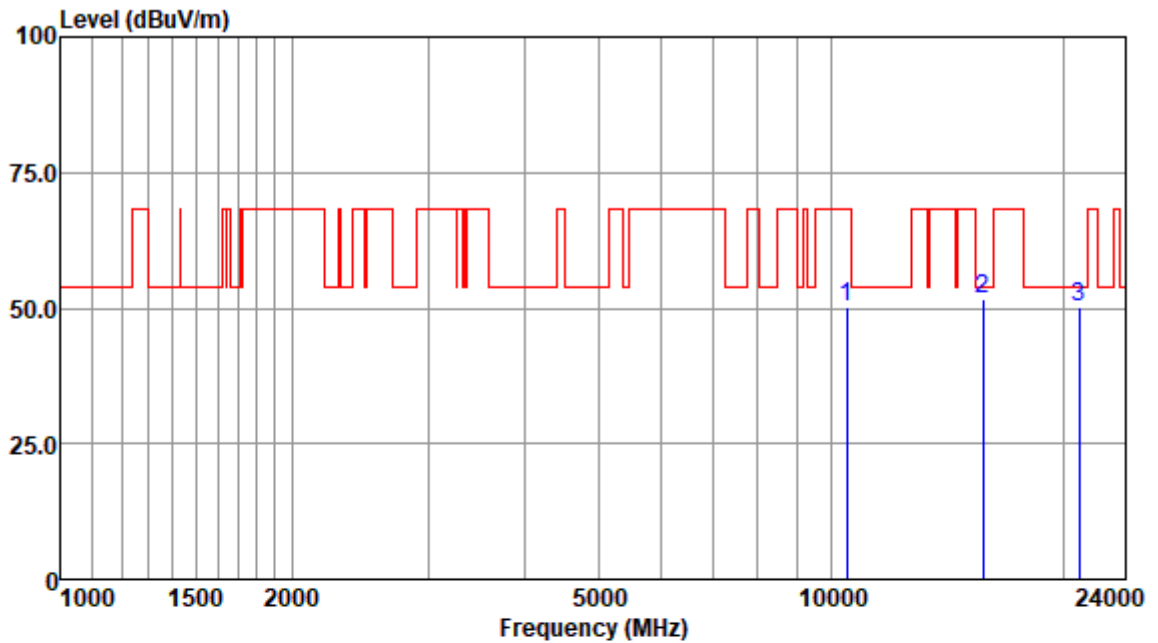
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	34.92	6.56	34.46	48.80	68.20	-19.40	Peak
15660.00	37.51	10.11	36.63	51.20	54.00	-2.80	Peak
20880.00	43.48	11.97	36.05	52.30	54.00	-1.70	Peak

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



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



Antenna Polarity :VERTICAL

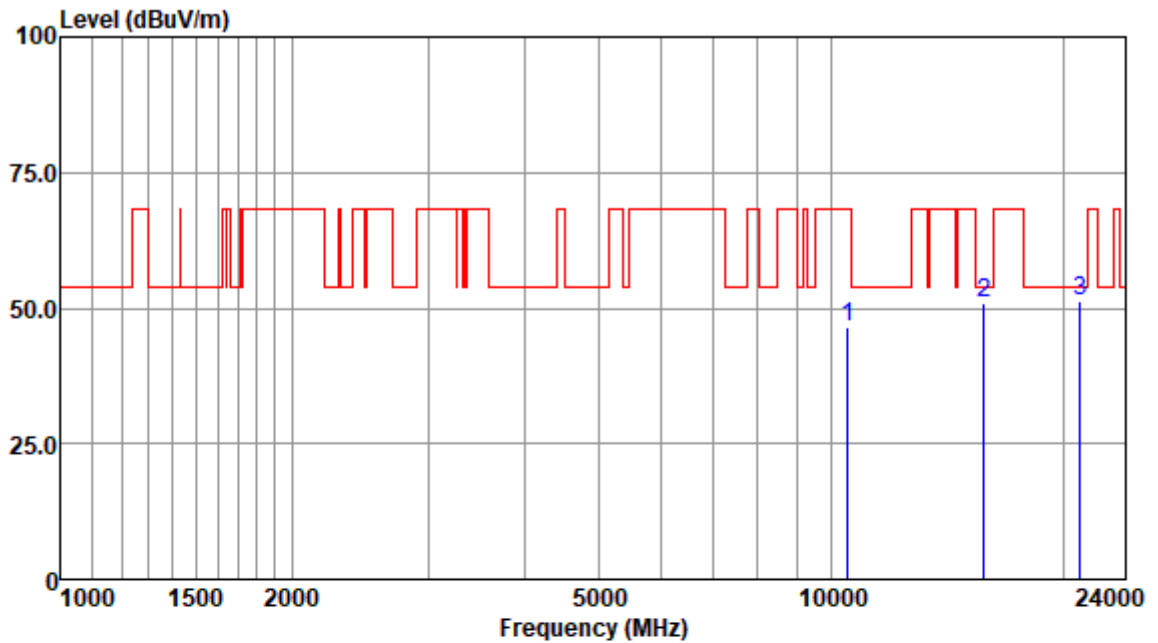
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	34.92	6.56	34.46	50.30	68.20	-17.90	Peak
15660.00	37.51	10.11	36.63	51.50	54.00	-2.50	Peak
20880.00	43.48	11.97	36.05	50.10	54.00	-3.90	Peak

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



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Mode:b; Polarization:Horizontal; Modulation:a; 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	
10480.00	34.95	6.58	34.48	46.50	68.20	-21.70	Peak
15720.00	37.54	9.80	36.58	50.80	54.00	-3.20	Peak
20960.00	43.52	12.00	36.06	51.30	54.00	-2.70	Peak

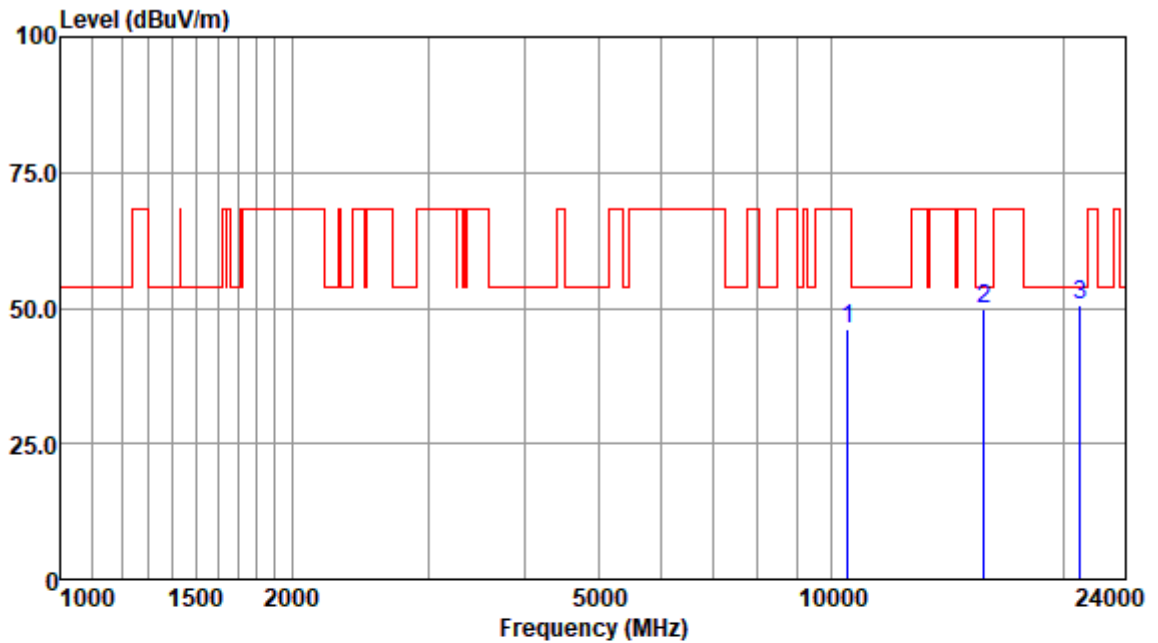
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

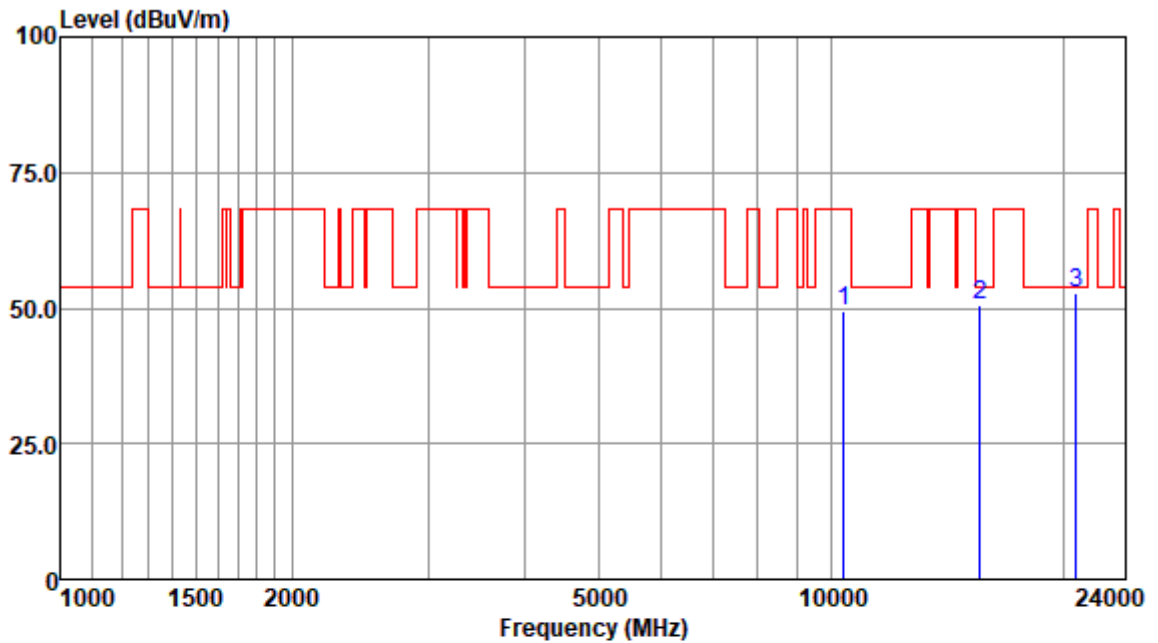
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	34.95	6.58	34.48	46.20	68.20	-22.00	Peak
15720.00	37.54	9.80	36.58	49.80	54.00	-4.20	Peak
20960.00	43.52	12.00	36.06	50.40	54.00	-3.60	Peak

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



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Mode:b; Polarization:Horizontal; Modulation:n; 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	dBuv/m	dBuv/m	dB	
10360.00	42.54	34.93	6.53	34.40	49.60	68.20	-18.60	Peak
15540.00	39.96	37.43	9.99	36.78	50.60	54.00	-3.40	Peak
20720.00	33.64	43.41	11.90	36.05	52.90	54.00	-1.10	Peak

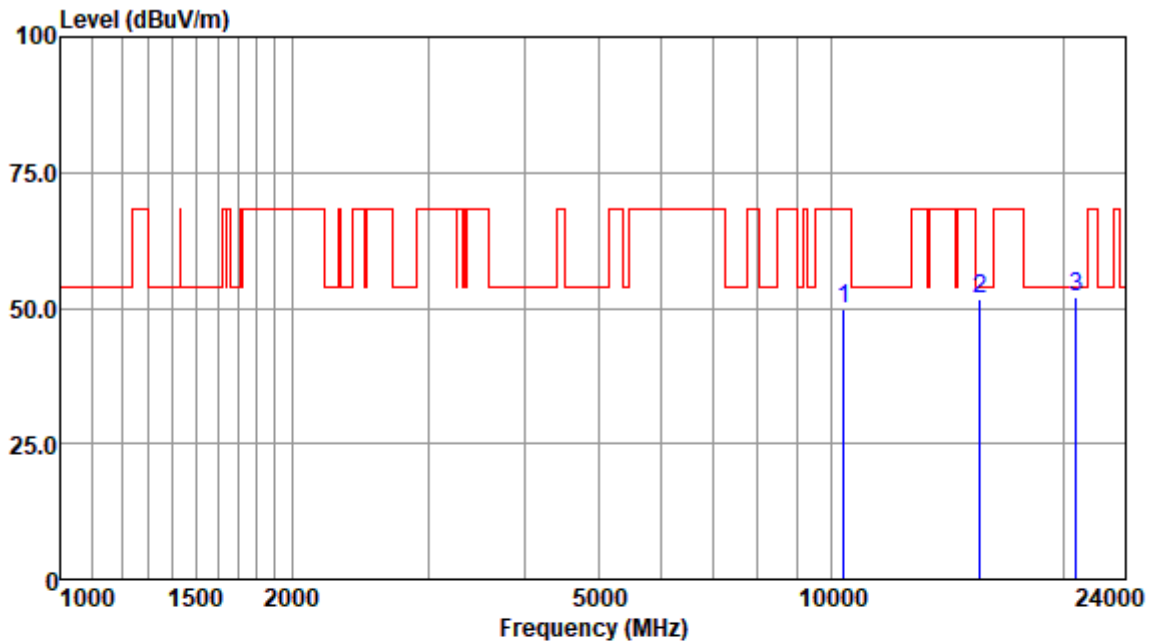
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

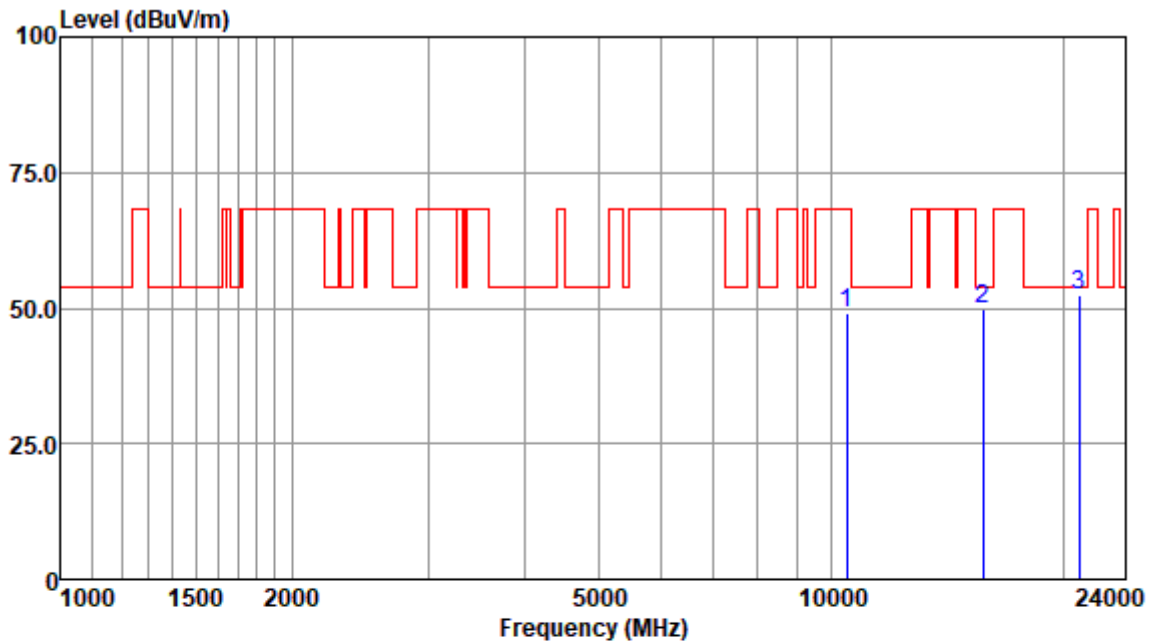
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	34.93	6.53	34.40	49.80	68.20	-18.40	Peak
15540.00	37.43	9.99	36.78	51.70	54.00	-2.30	Peak
20720.00	43.41	11.90	36.05	51.90	54.00	-2.10	Peak

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



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



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
10440.00	41.88	34.92	6.56	34.46	48.90	68.20	-19.30 Peak
15660.00	38.81	37.51	10.11	36.63	49.80	54.00	-4.20 Peak
20880.00	32.90	43.48	11.97	36.05	52.30	54.00	-1.70 Peak

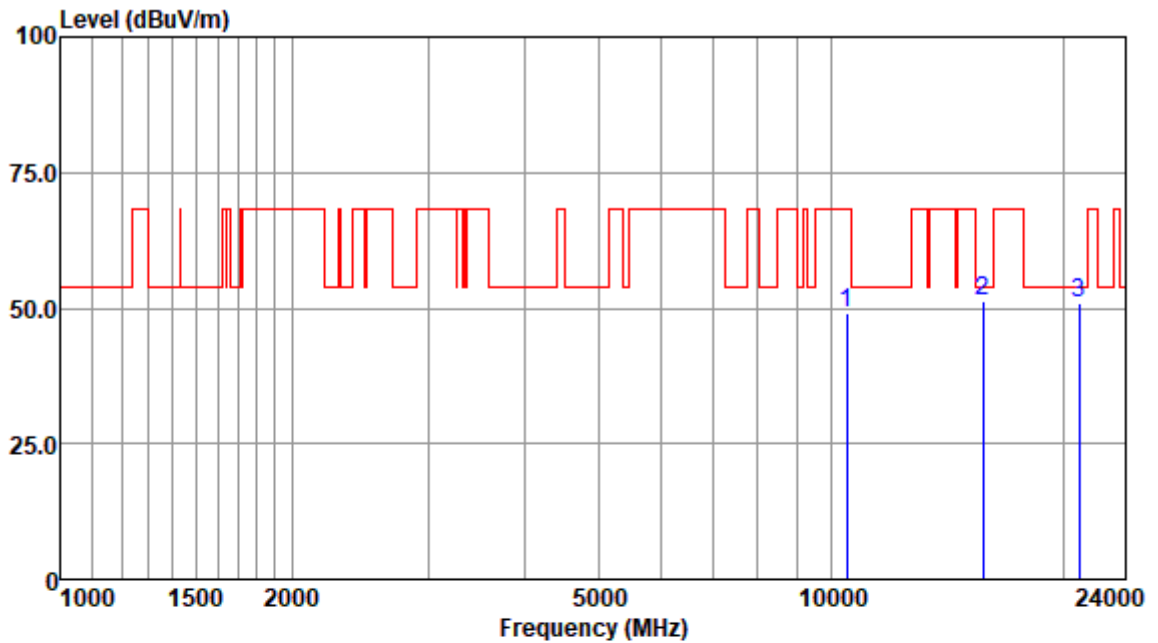
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

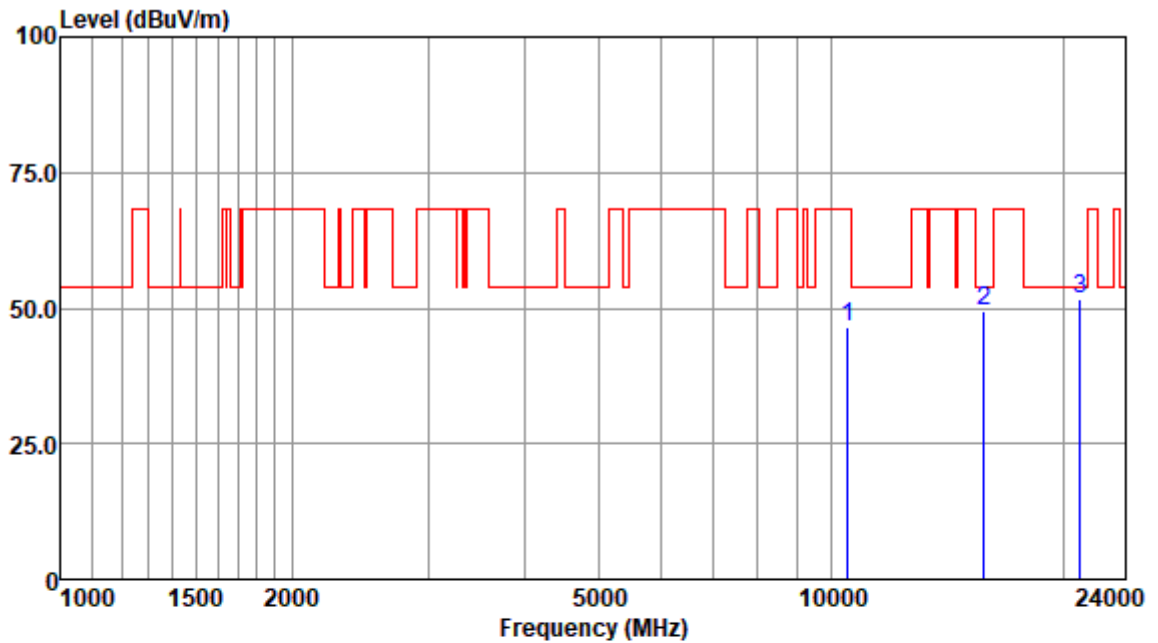
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	34.92	6.56	34.46	48.90	68.20	-19.30	Peak
15660.00	37.51	10.11	36.63	51.20	54.00	-2.80	Peak
20880.00	43.48	11.97	36.05	51.10	54.00	-2.90	Peak

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



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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----	
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
10480.00	39.55	34.95	6.58	34.48	46.60	68.20	-21.60	Peak	
15720.00	38.84	37.54	9.80	36.58	49.60	54.00	-4.40	Peak	
20960.00	32.34	43.52	12.00	36.06	51.80	54.00	-2.20	Peak	

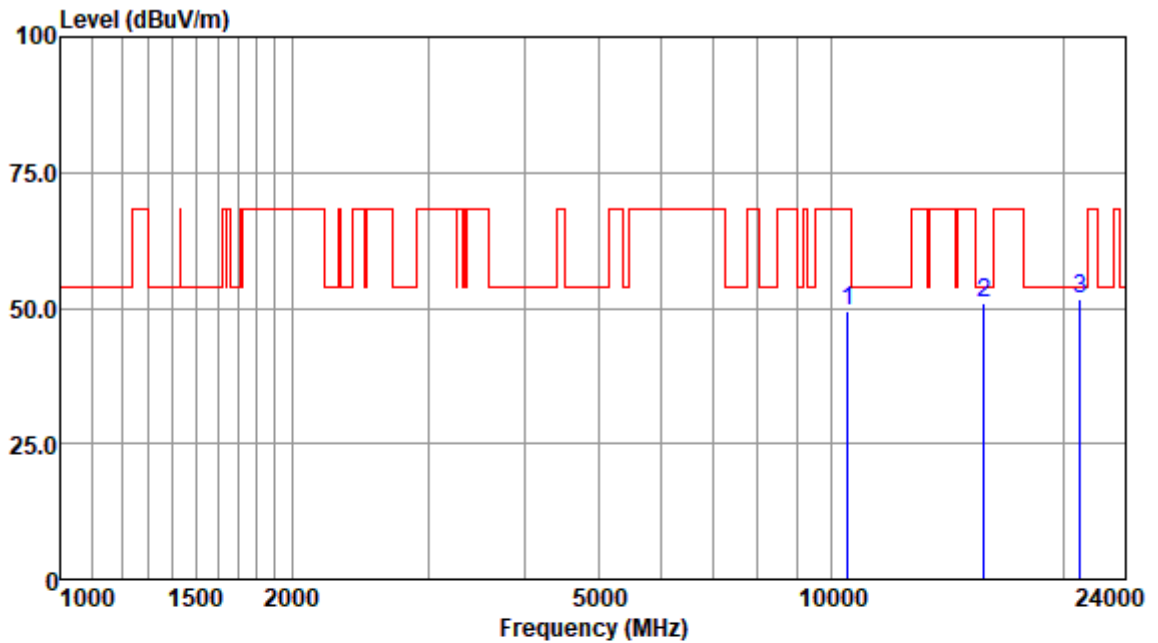
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

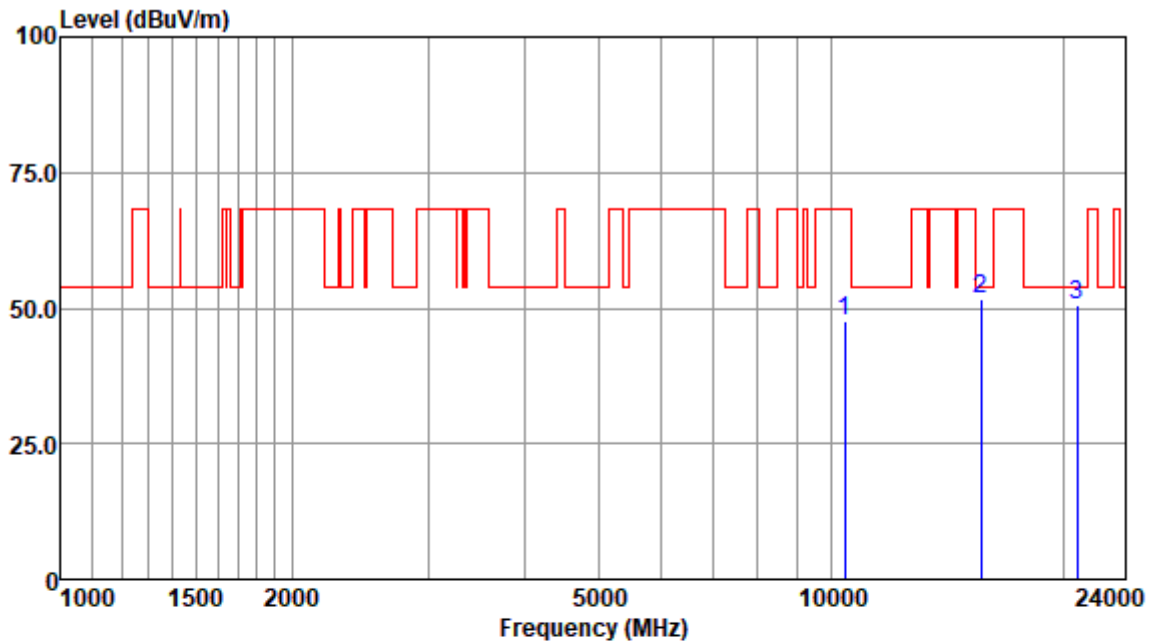
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10480.00	34.95	6.58	34.48	49.50	68.20	-18.70	Peak
15720.00	37.54	9.80	36.58	51.10	54.00	-2.90	Peak
20960.00	43.52	12.00	36.06	51.70	54.00	-2.30	Peak

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



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



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	
10380.00	34.93	6.53	34.40	47.60	68.20	-20.60	Peak
15570.00	37.45	10.03	36.73	51.80	54.00	-2.20	Peak
20760.00	43.41	11.90	36.05	50.70	54.00	-3.30	Peak

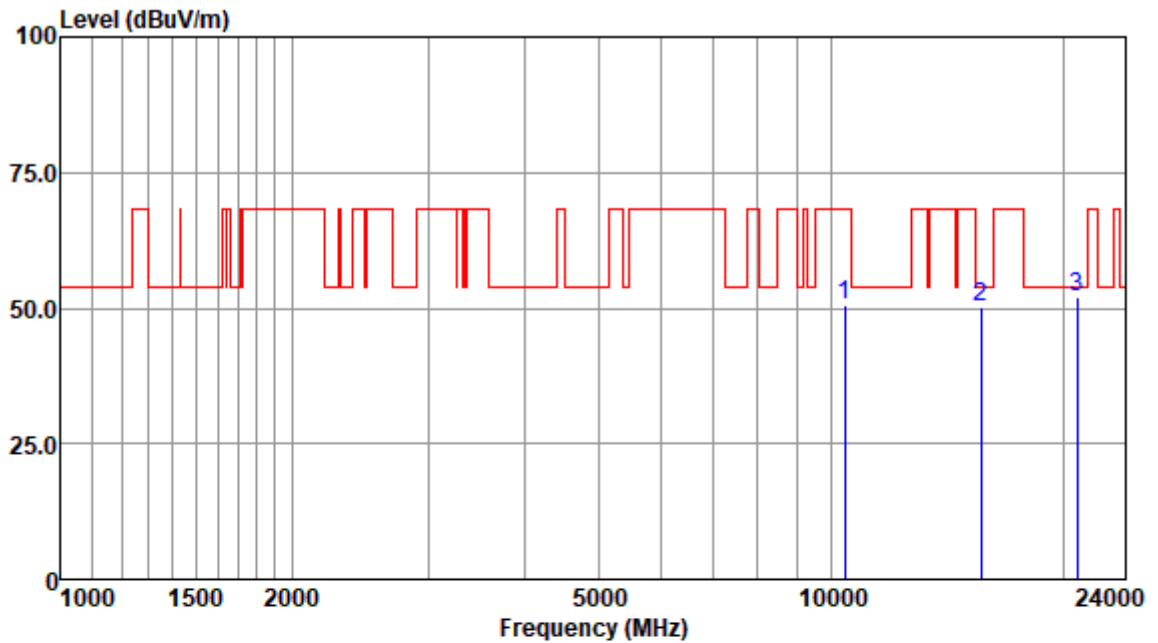
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:b; 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	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----	
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
10380.00	43.44	34.93	6.53	34.40	50.50	68.20	-17.70	Peak	
15570.00	39.55	37.45	10.03	36.73	50.30	54.00	-3.70	Peak	
20760.00	32.64	43.41	11.90	36.05	51.90	54.00	-2.10	Peak	

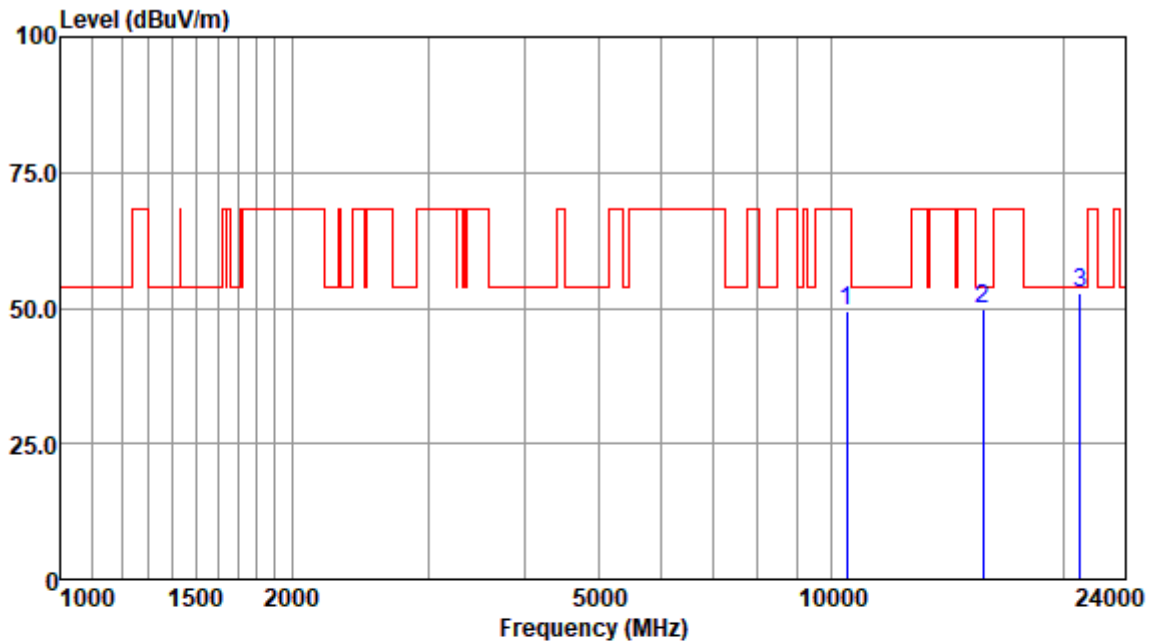
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

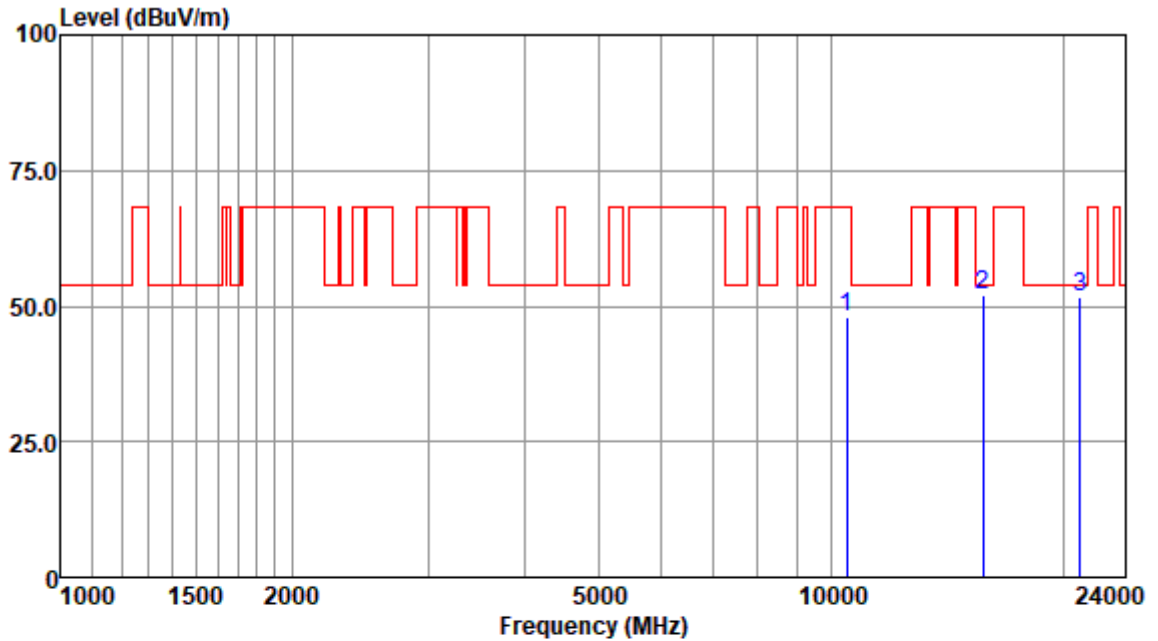
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	34.95	6.58	34.48	49.30	68.20	-18.90	Peak
15690.00	37.51	10.11	36.63	49.70	54.00	-4.30	Peak
20920.00	43.52	12.00	36.06	52.80	54.00	-1.20	Peak

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



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



Antenna Polarity :VERTICAL

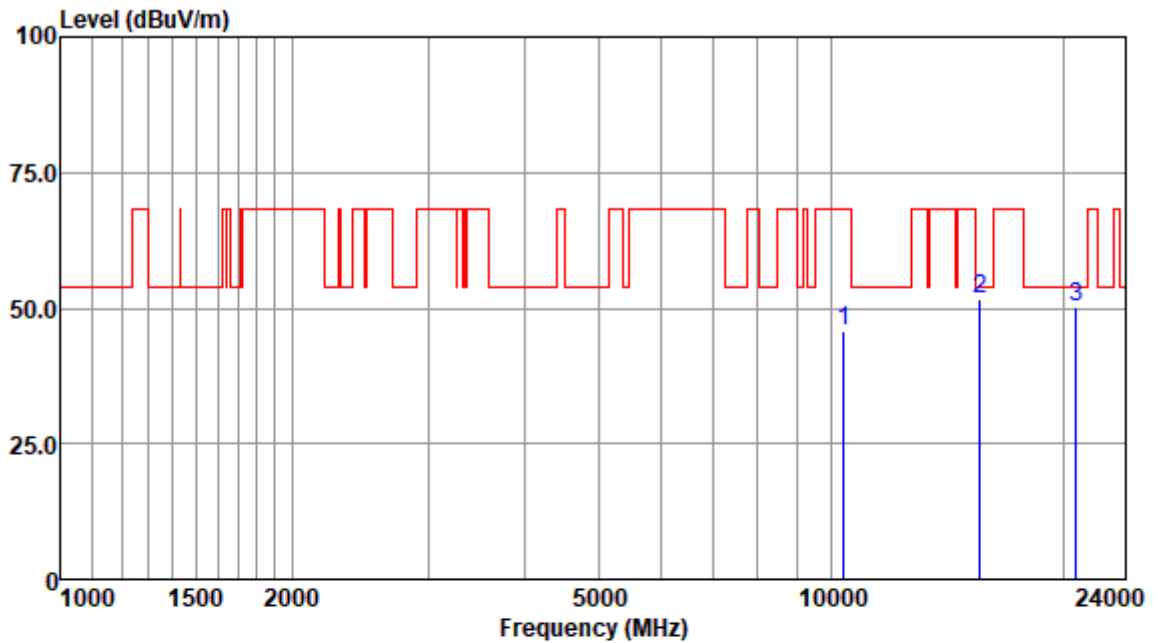
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	34.95	6.58	34.48	47.80	68.20	-20.40	Peak
15690.00	37.51	10.11	36.63	52.20	54.00	-1.80	Peak
20920.00	43.52	12.00	36.06	51.70	54.00	-2.30	Peak

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



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



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	
10360.00	34.93	6.53	34.40	45.80	68.20	-22.40	Peak
15540.00	37.43	9.99	36.78	51.80	54.00	-2.20	Peak
20720.00	43.41	11.90	36.05	50.20	54.00	-3.80	Peak

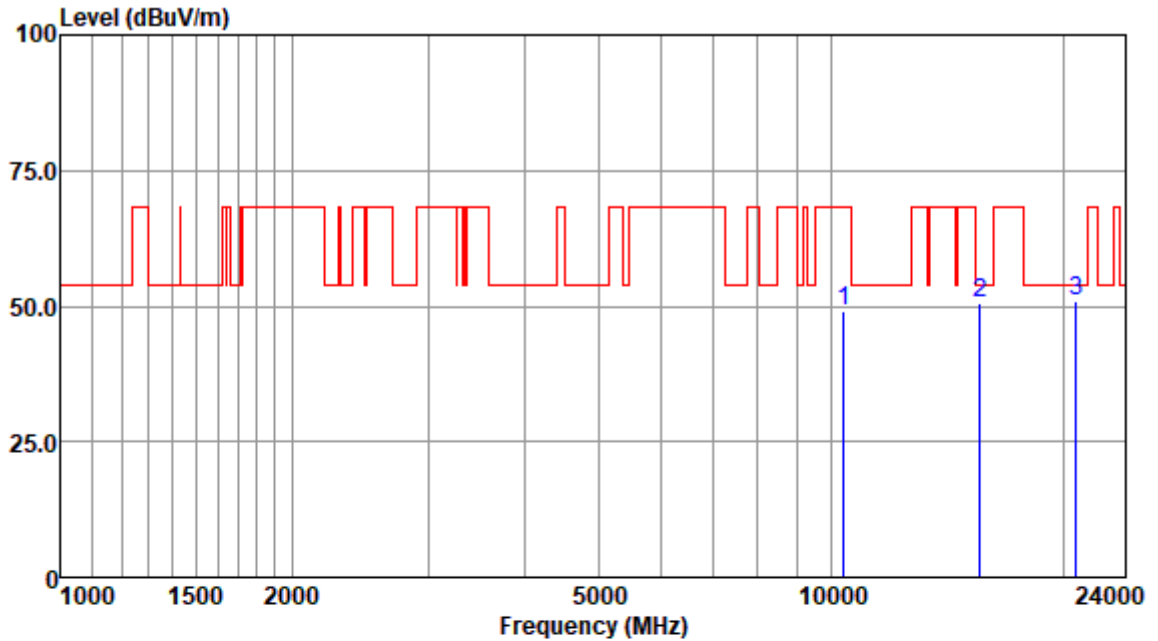
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

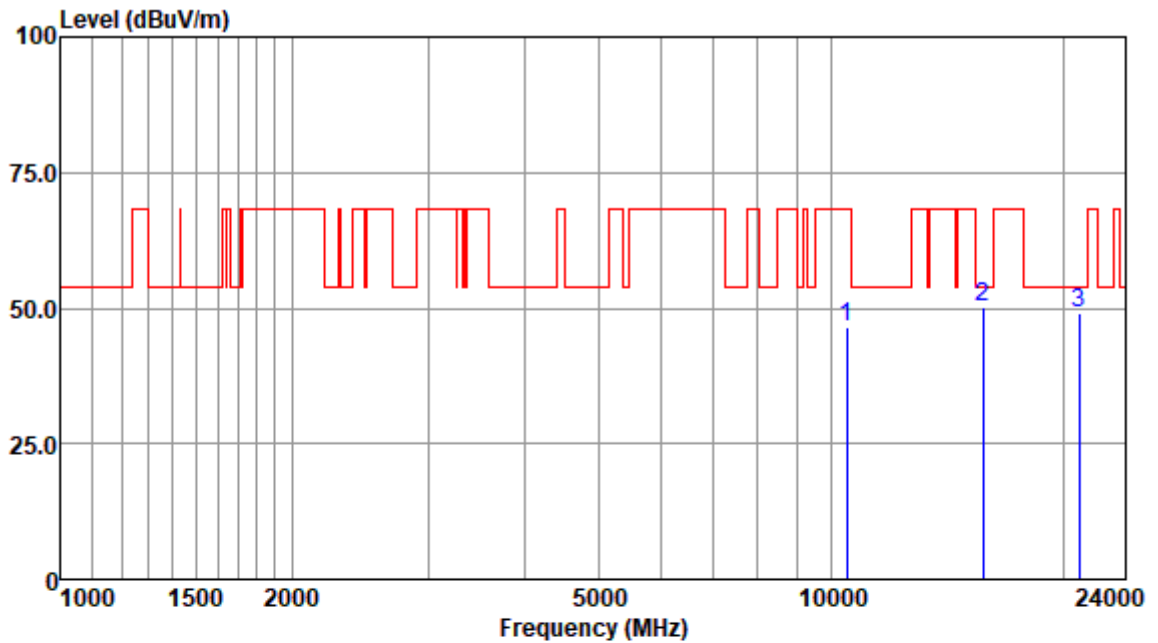
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10360.00	34.93	6.53	34.40	49.20	68.20	-19.00	Peak
15540.00	37.43	9.99	36.78	50.70	54.00	-3.30	Peak
20720.00	43.41	11.90	36.05	50.80	54.00	-3.20	Peak

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



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



Antenna Polarity :HORIZONTAL

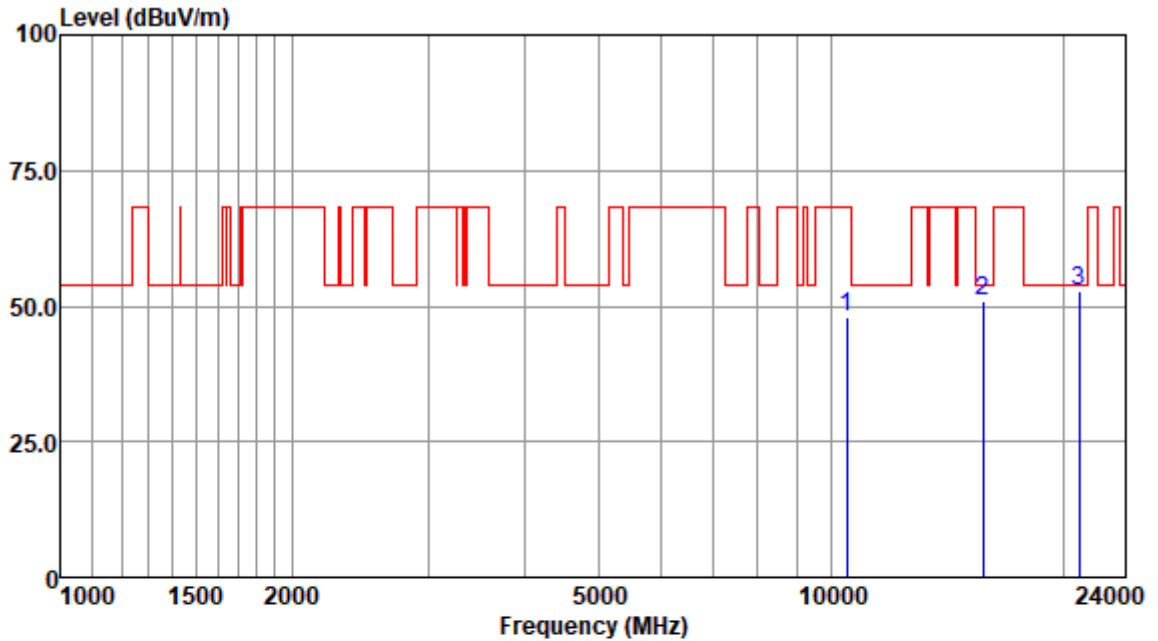
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	34.92	6.56	34.46	46.60	68.20	-21.60	Peak
15660.00	37.51	10.11	36.63	50.30	54.00	-3.70	Peak
20880.00	43.48	11.97	36.05	49.20	54.00	-4.80	Peak

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



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



Antenna Polarity :VERTICAL

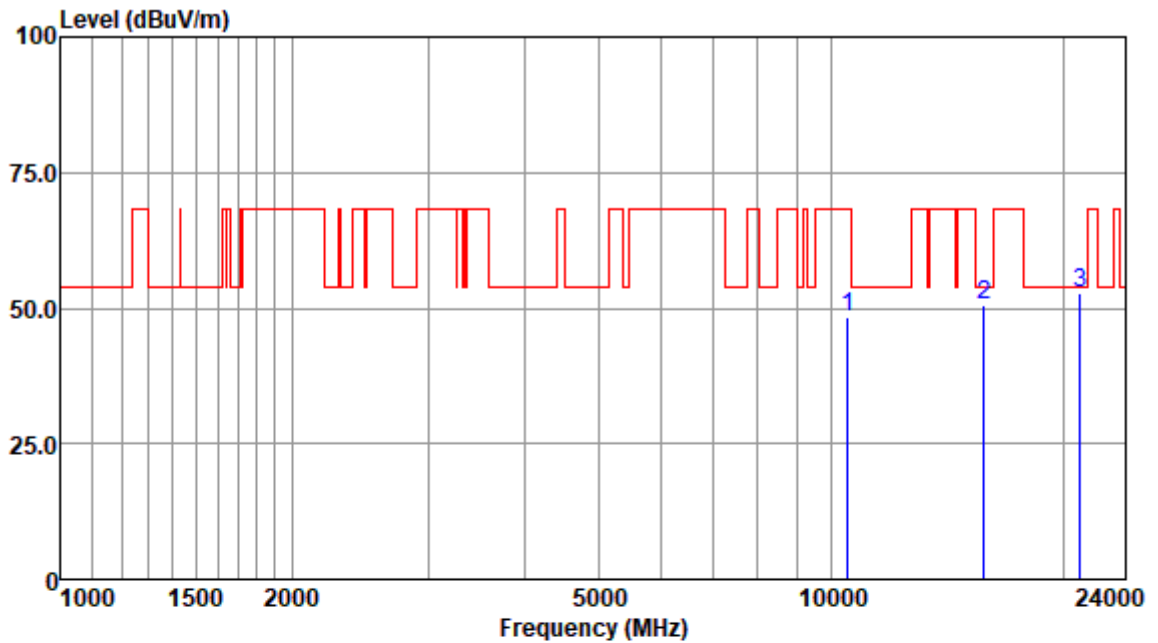
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10440.00	34.92	6.56	34.46	47.80	68.20	-20.40	Peak
15660.00	37.51	10.11	36.63	50.80	54.00	-3.20	Peak
20880.00	43.48	11.97	36.05	52.90	54.00	-1.10	Peak

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



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Mode:b; Polarization:Horizontal; Modulation:c; 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	
10480.00	34.95	6.58	34.48	48.20	68.20	-20.00	Peak
15720.00	37.54	9.80	36.58	50.60	54.00	-3.40	Peak
20960.00	43.52	12.00	36.06	52.80	54.00	-1.20	Peak

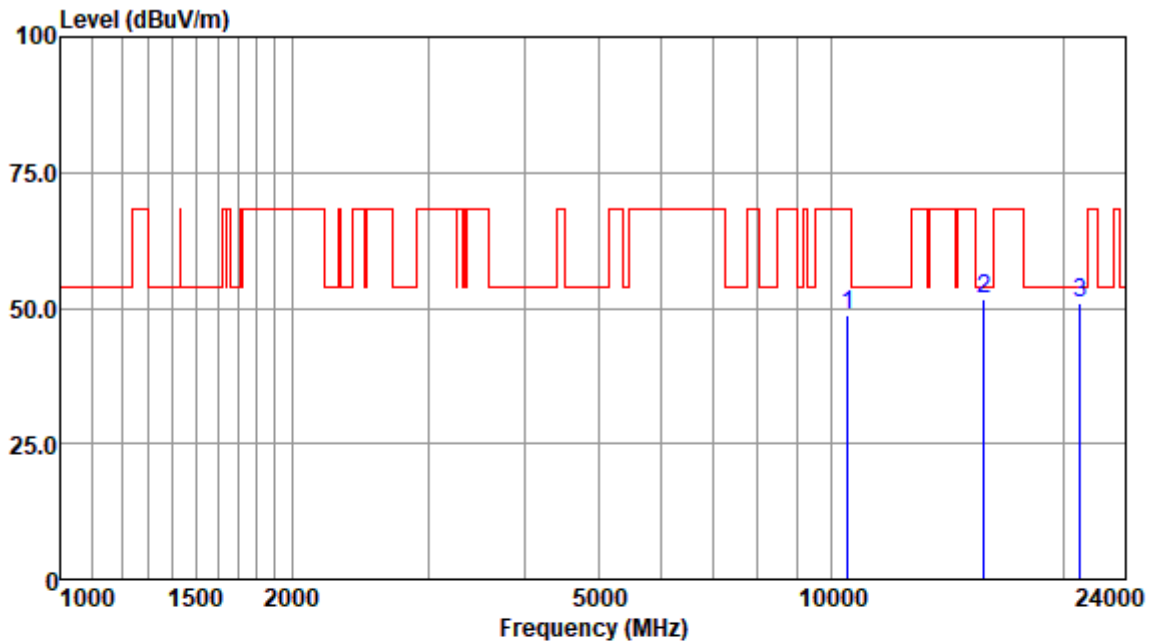
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
10480.00	41.55	34.95	6.58	34.48	48.60	68.20	-19.60	Peak	
15720.00	41.04	37.54	9.80	36.58	51.80	54.00	-2.20	Peak	
20960.00	31.34	43.52	12.00	36.06	50.80	54.00	-3.20	Peak	

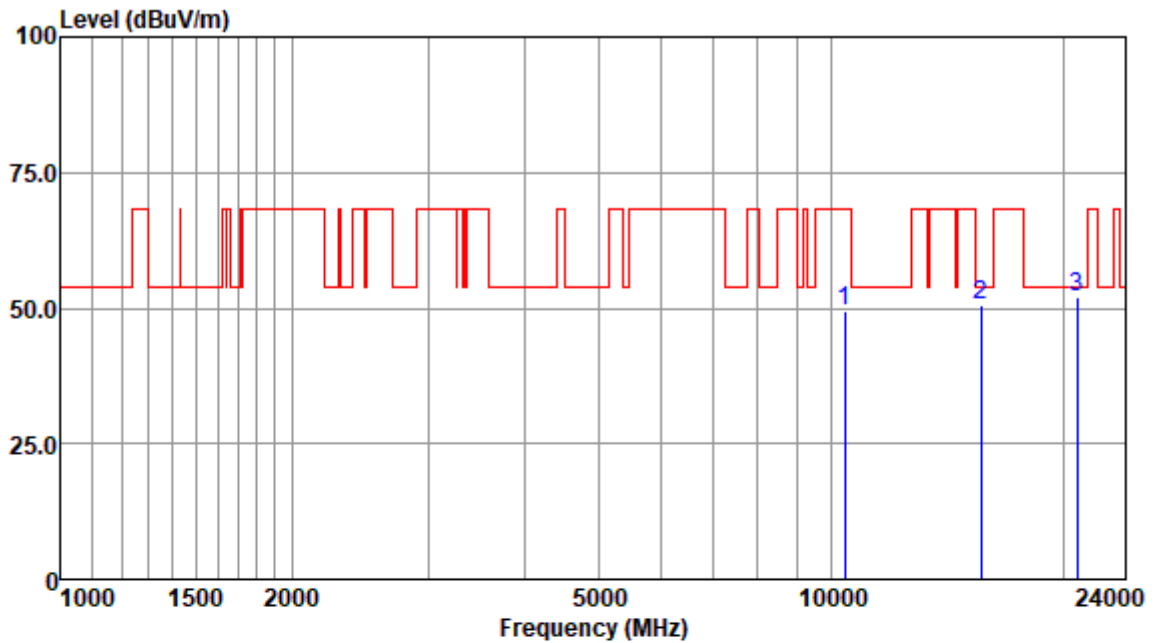
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

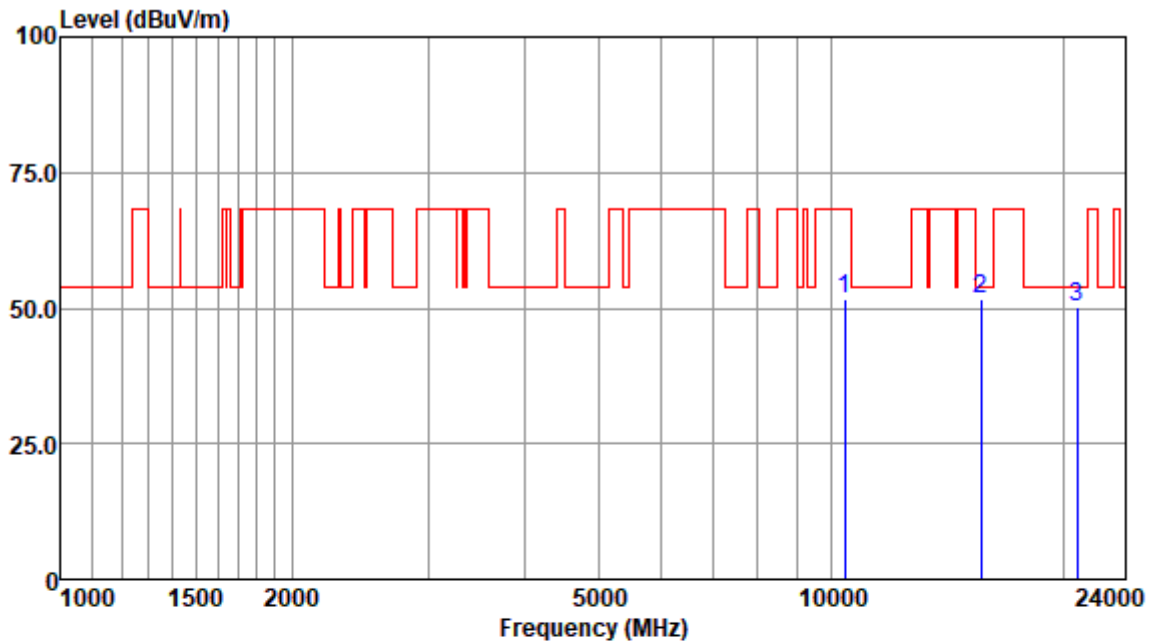
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	34.93	6.53	34.40	49.40	68.20	-18.80	Peak
15570.00	37.45	10.03	36.73	50.60	54.00	-3.40	Peak
20760.00	43.41	11.90	36.05	51.90	54.00	-2.10	Peak

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



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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

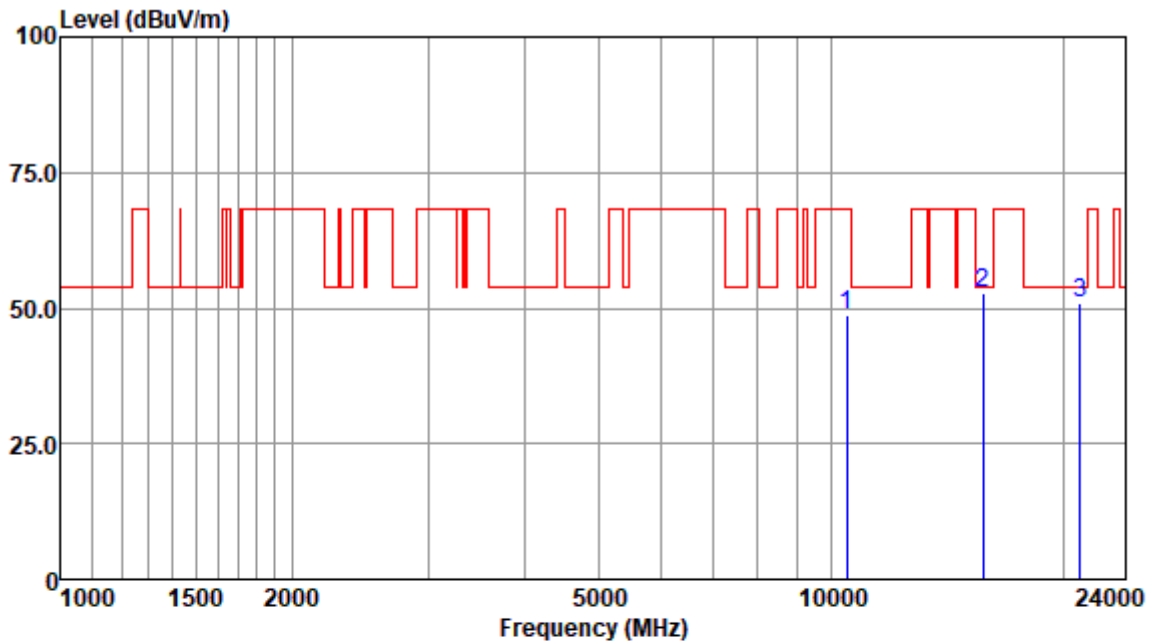
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10380.00	34.93	6.53	34.40	51.60	68.20	-16.60	Peak
15570.00	37.45	10.03	36.73	51.50	54.00	-2.50	Peak
20760.00	43.41	11.90	36.05	50.30	54.00	-3.70	Peak

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



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

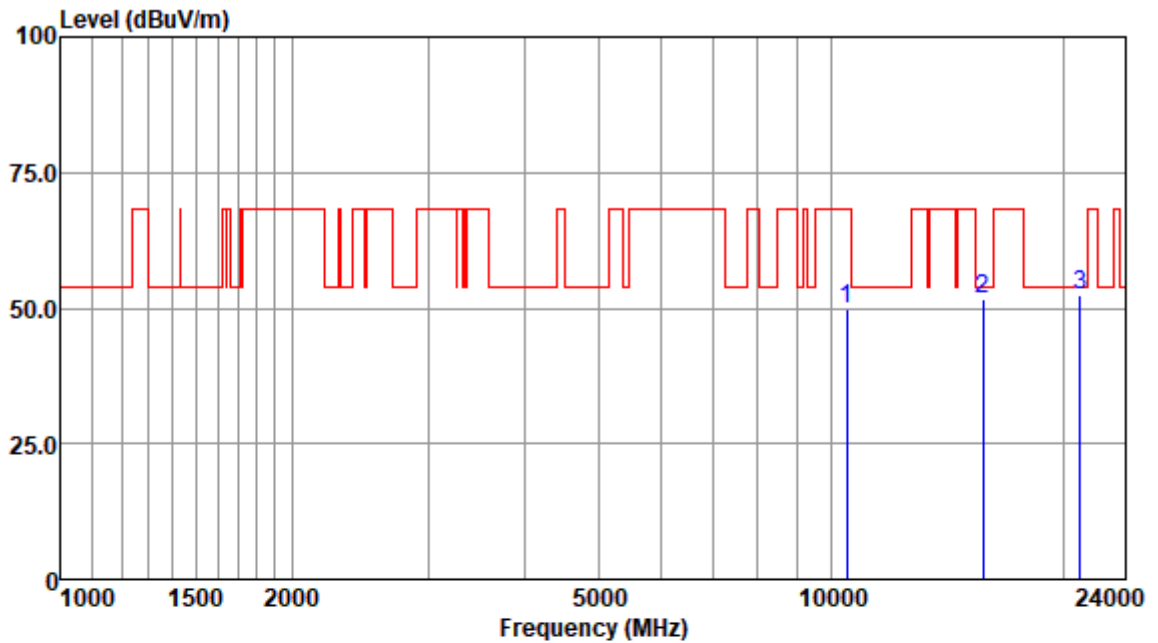
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10460.00	34.95	6.58	34.48	48.60	68.20	-19.60	Peak
15690.00	37.51	10.11	36.63	52.70	54.00	-1.30	Peak
20920.00	43.52	12.00	36.06	50.90	54.00	-3.10	Peak

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



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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

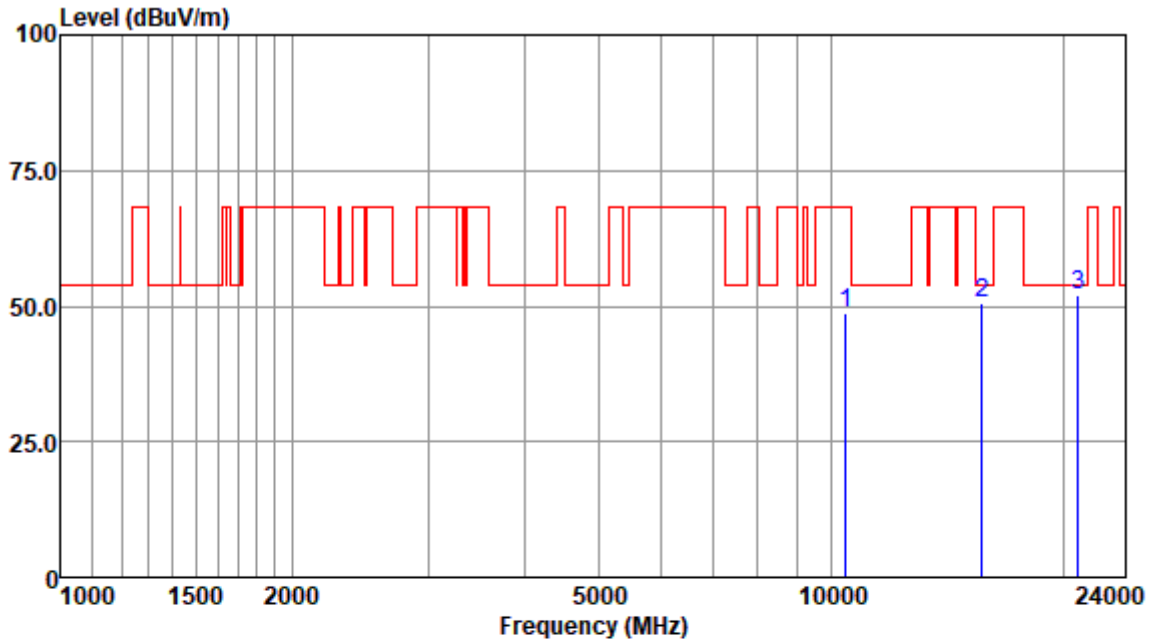
Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
10460.00	42.85	34.95	6.58	34.48	49.90	68.20	-18.30	Peak	
15690.00	40.81	37.51	10.11	36.63	51.80	54.00	-2.20	Peak	
20920.00	33.04	43.52	12.00	36.06	52.50	54.00	-1.50	Peak	

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



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

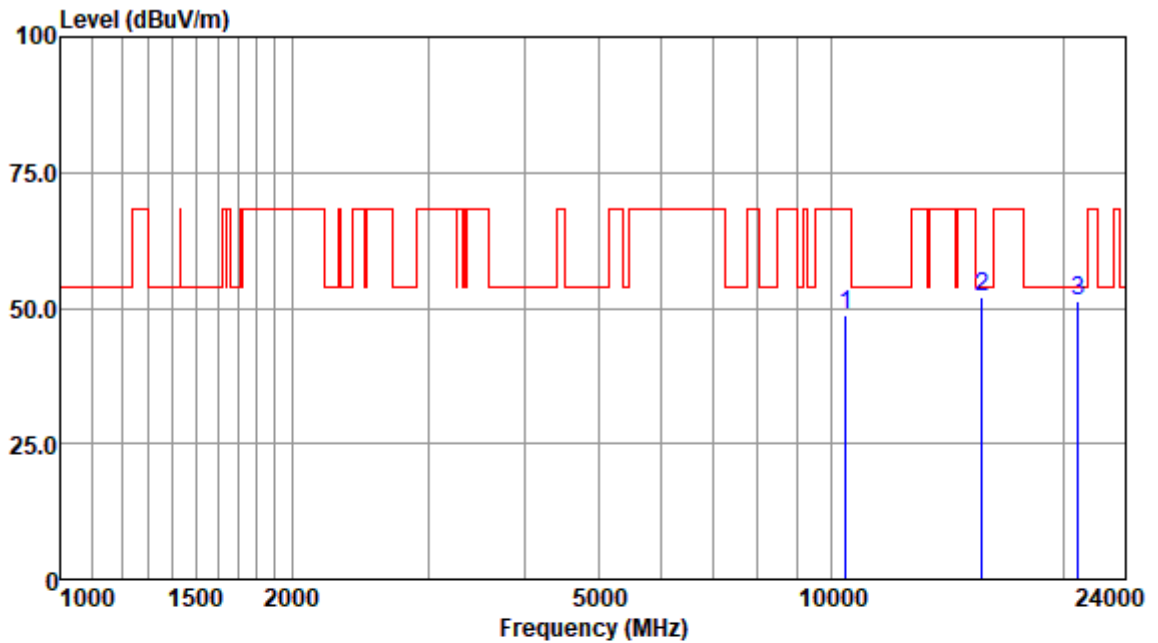
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10420.00	34.92	6.55	34.43	48.80	68.20	-19.40	Peak
15630.00	37.48	10.07	36.68	50.60	54.00	-3.40	Peak
20840.00	43.48	11.97	36.05	51.90	54.00	-2.10	Peak

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



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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
10420.00	41.76	34.92	6.55	34.43	48.80	68.20	-19.40	Peak	
15630.00	41.03	37.48	10.07	36.68	51.90	54.00	-2.10	Peak	
20840.00	31.80	43.48	11.97	36.05	51.20	54.00	-2.80	Peak	

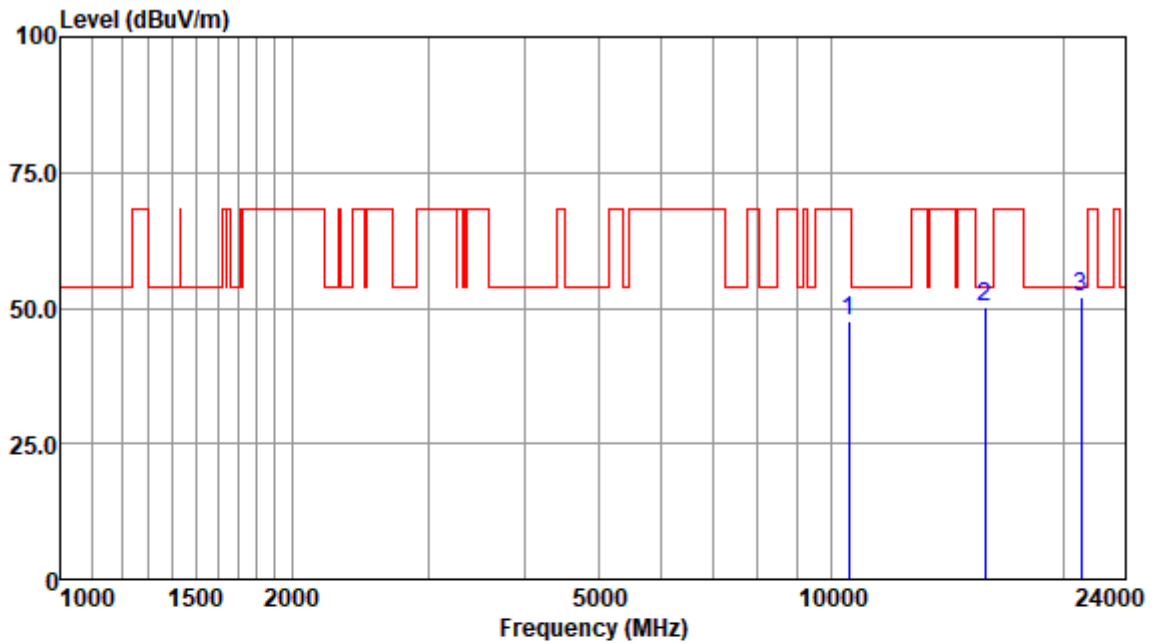
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



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	
10520.00	34.98	6.60	34.51	47.60	68.20	-20.60	Peak
15780.00	37.56	9.48	36.55	50.30	54.00	-3.70	Peak
21040.00	43.58	12.07	36.06	51.90	54.00	-2.10	Peak

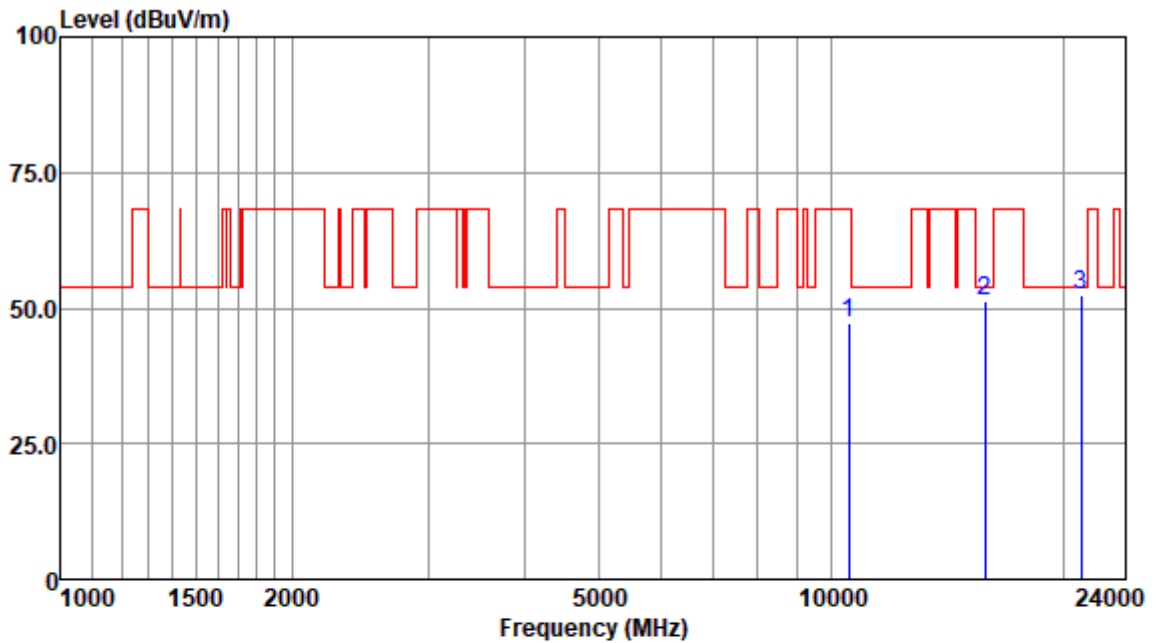
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

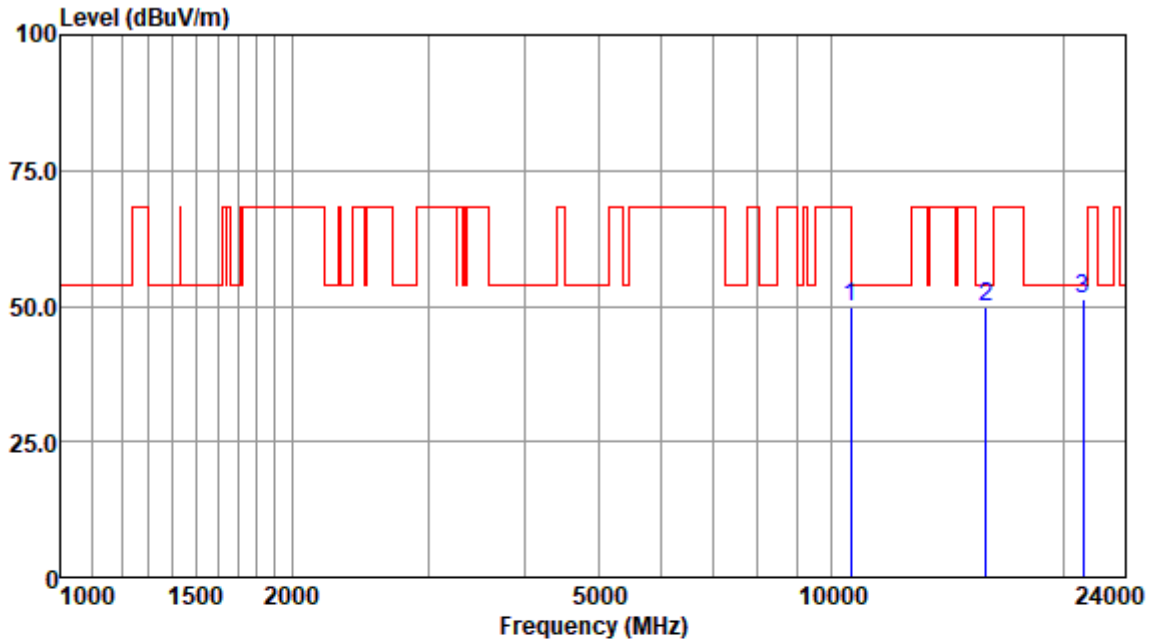
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	34.98	6.60	34.51	47.30	68.20	-20.90	Peak
15780.00	37.56	9.48	36.55	51.30	54.00	-2.70	Peak
21040.00	43.58	12.07	36.06	52.30	54.00	-1.70	Peak

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



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



Antenna Polarity :HORIZONTAL

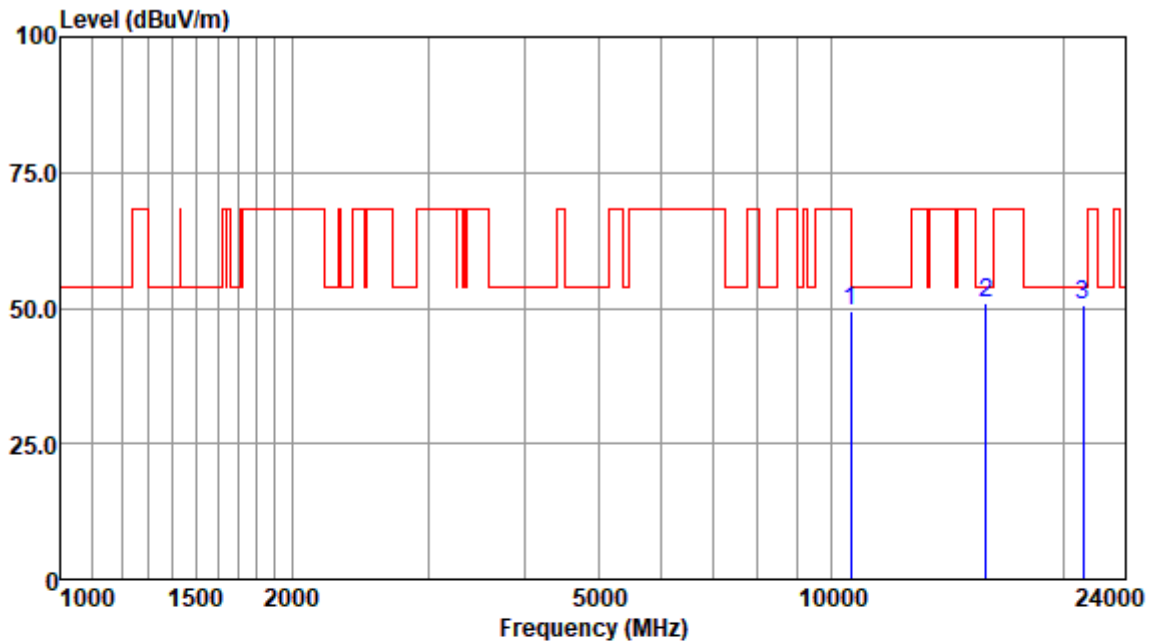
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	35.04	6.64	34.56	49.70	68.20	-18.50	Peak
15840.00	37.61	9.16	36.51	49.90	54.00	-4.10	Peak
21120.00	43.62	12.11	36.07	51.20	54.00	-2.80	Peak

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



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



Antenna Polarity :VERTICAL

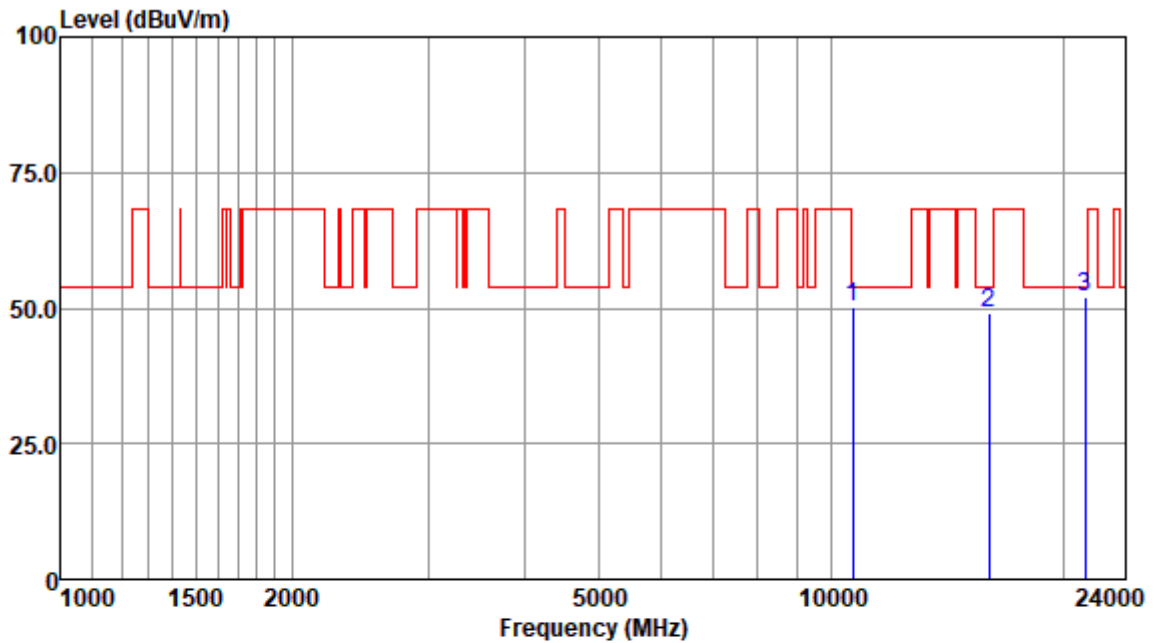
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10560.00	42.38	35.04	6.64	34.56	49.50	68.20	-18.70	Peak
15840.00	40.84	37.61	9.16	36.51	51.10	54.00	-2.90	Peak
21120.00	30.94	43.62	12.11	36.07	50.60	54.00	-3.40	Peak

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



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



Antenna Polarity :HORIZONTAL

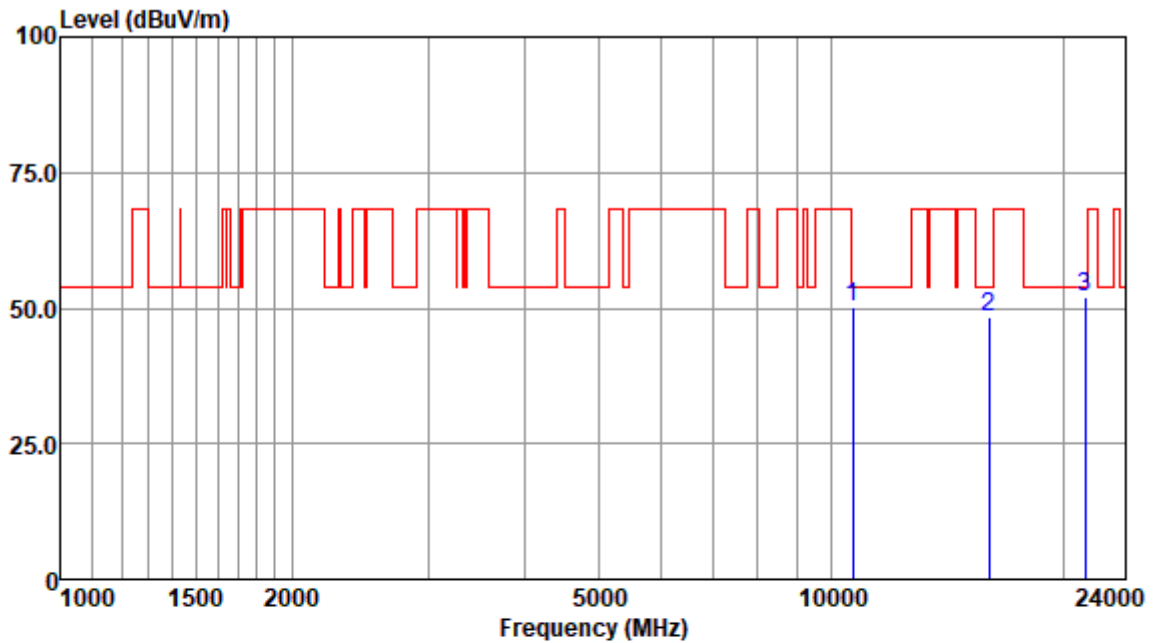
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10640.00	43.13	35.10	6.68	34.61	50.30	54.00	-3.70	Peak
15960.00	39.28	37.74	8.60	36.42	49.20	54.00	-4.80	Peak
21280.00	32.10	43.69	12.18	36.07	51.90	54.00	-2.10	Peak

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



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



Antenna Polarity :VERTICAL

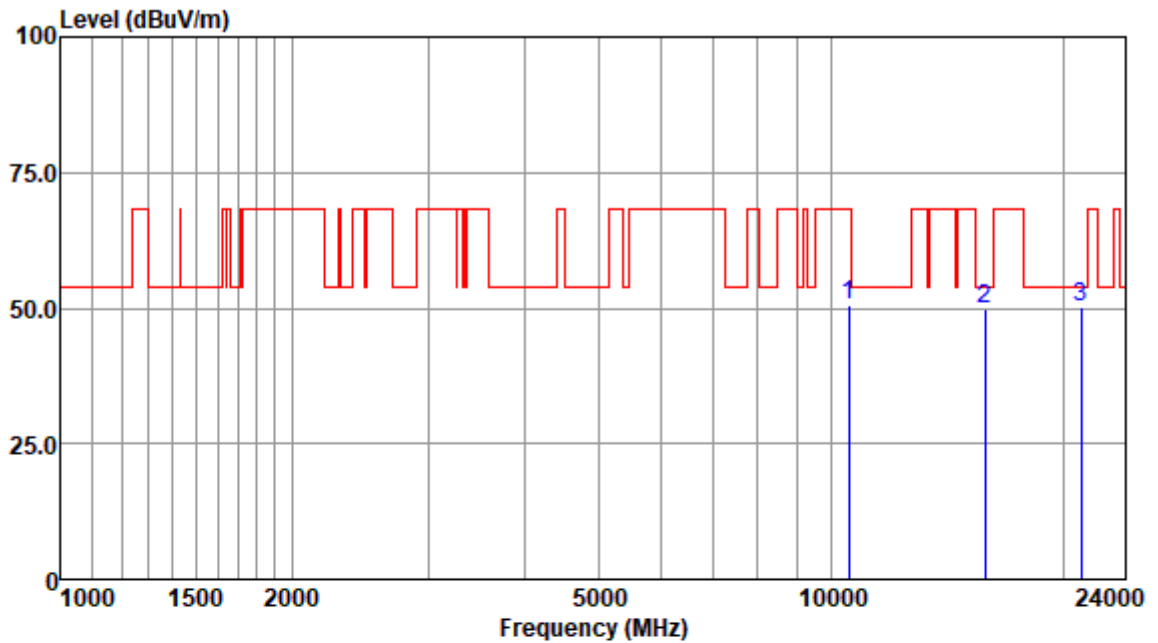
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10640.00	43.13	35.10	6.68	34.61	50.30	54.00	-3.70	Peak
15960.00	38.58	37.74	8.60	36.42	48.50	54.00	-5.50	Peak
21280.00	32.10	43.69	12.18	36.07	51.90	54.00	-2.10	Peak

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



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



Antenna Polarity :HORIZONTAL

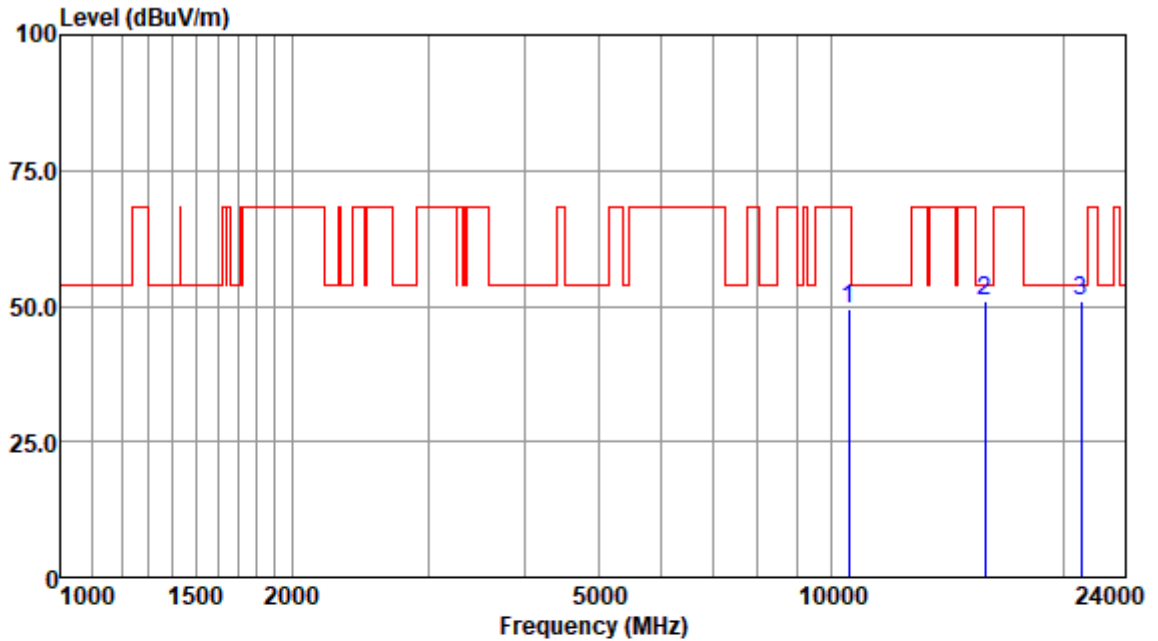
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10520.00	43.33	6.60	34.51	50.40	68.20	-17.80	Peak
15780.00	39.31	9.48	36.55	49.80	54.00	-4.20	Peak
21040.00	30.61	12.07	36.06	50.20	54.00	-3.80	Peak

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



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



Antenna Polarity :VERTICAL

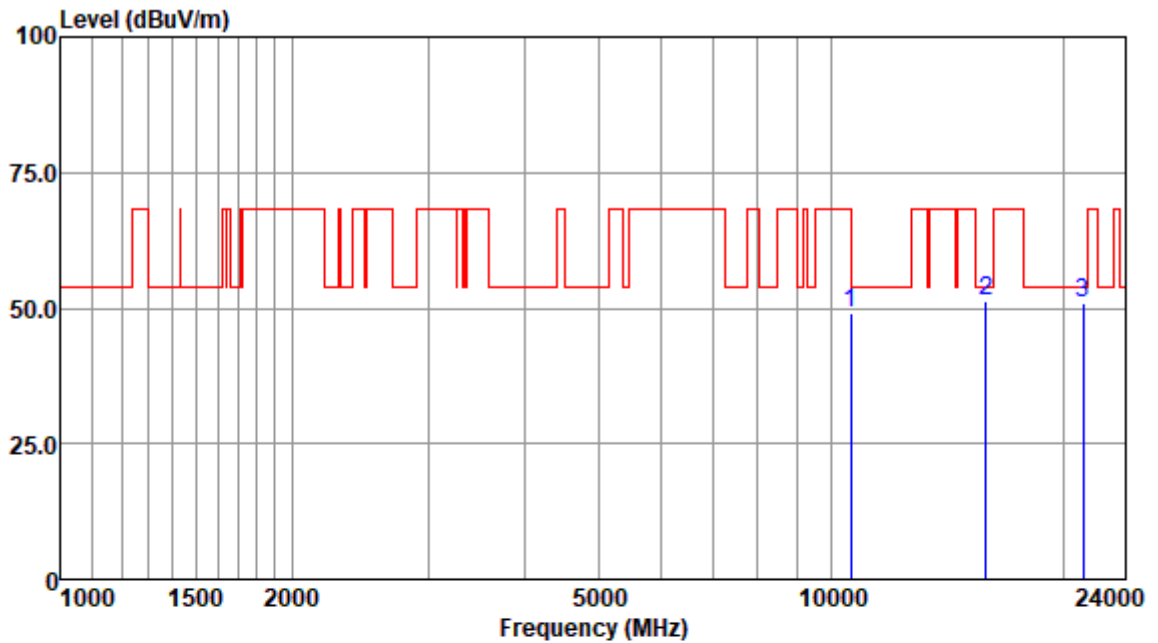
Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
10520.00	42.23	34.98	6.60	34.51	49.30	68.20	-18.90	Peak	
15780.00	40.61	37.56	9.48	36.55	51.10	54.00	-2.90	Peak	
21040.00	31.21	43.58	12.07	36.06	50.80	54.00	-3.20	Peak	

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



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



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	
10560.00	35.04	6.64	34.56	49.20	68.20	-19.00	Peak
15840.00	37.61	9.16	36.51	51.30	54.00	-2.70	Peak
21120.00	43.62	12.11	36.07	50.80	54.00	-3.20	Peak

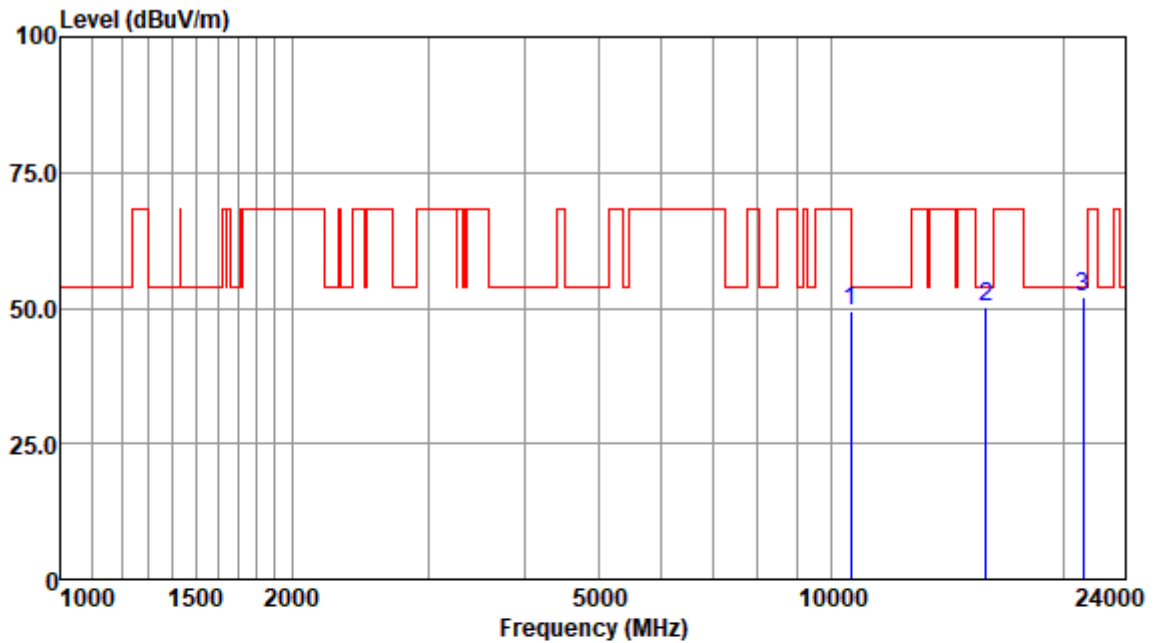
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

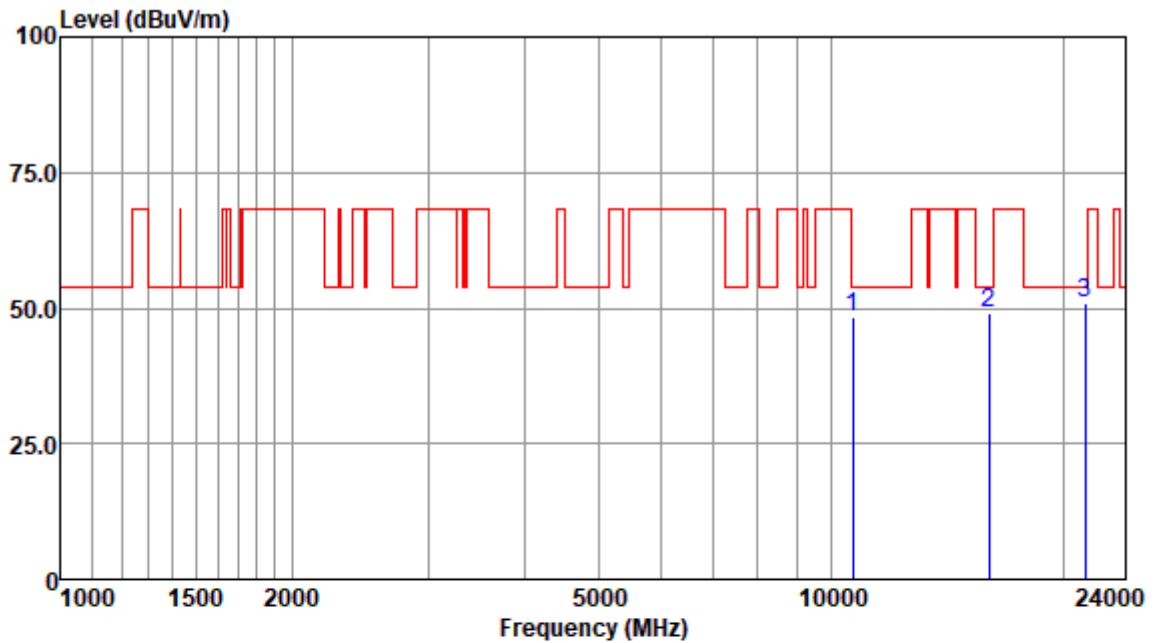
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	42.48	35.04	6.64	34.56	49.60	68.20	-18.60 Peak
15840.00	39.94	37.61	9.16	36.51	50.20	54.00	-3.80 Peak
21120.00	32.24	43.62	12.11	36.07	51.90	54.00	-2.10 Peak

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



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



Antenna Polarity :HORIZONTAL

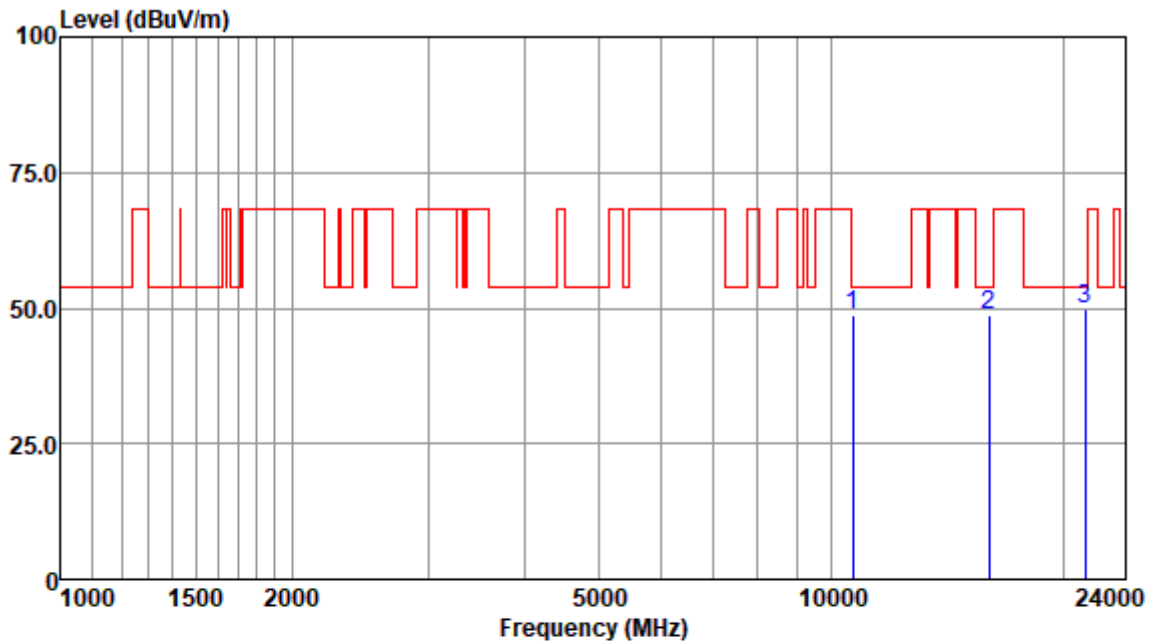
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10640.00	41.33	35.10	6.68	34.61	48.50	54.00	-5.50	Peak
15960.00	39.28	37.74	8.60	36.42	49.20	54.00	-4.80	Peak
21280.00	31.10	43.69	12.18	36.07	50.90	54.00	-3.10	Peak

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



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



Antenna Polarity :VERTICAL

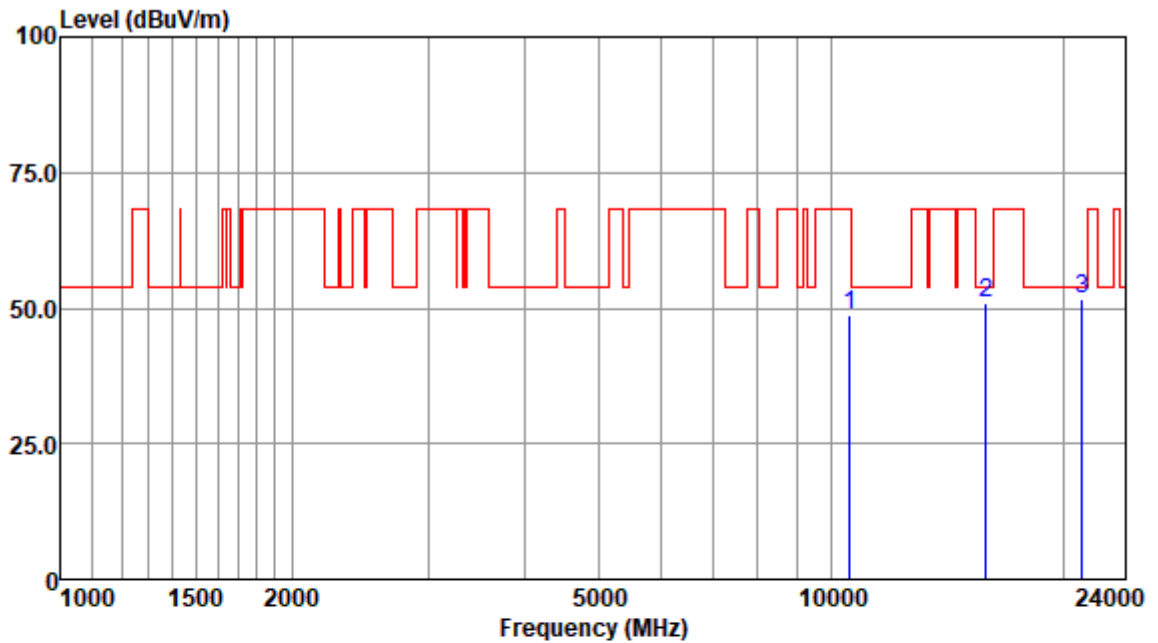
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	41.43	35.10	6.68	34.61	48.60	54.00	-5.40 Peak
15960.00	38.78	37.74	8.60	36.42	48.70	54.00	-5.30 Peak
21280.00	30.10	43.69	12.18	36.07	49.90	54.00	-4.10 Peak

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



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



Antenna Polarity :HORIZONTAL

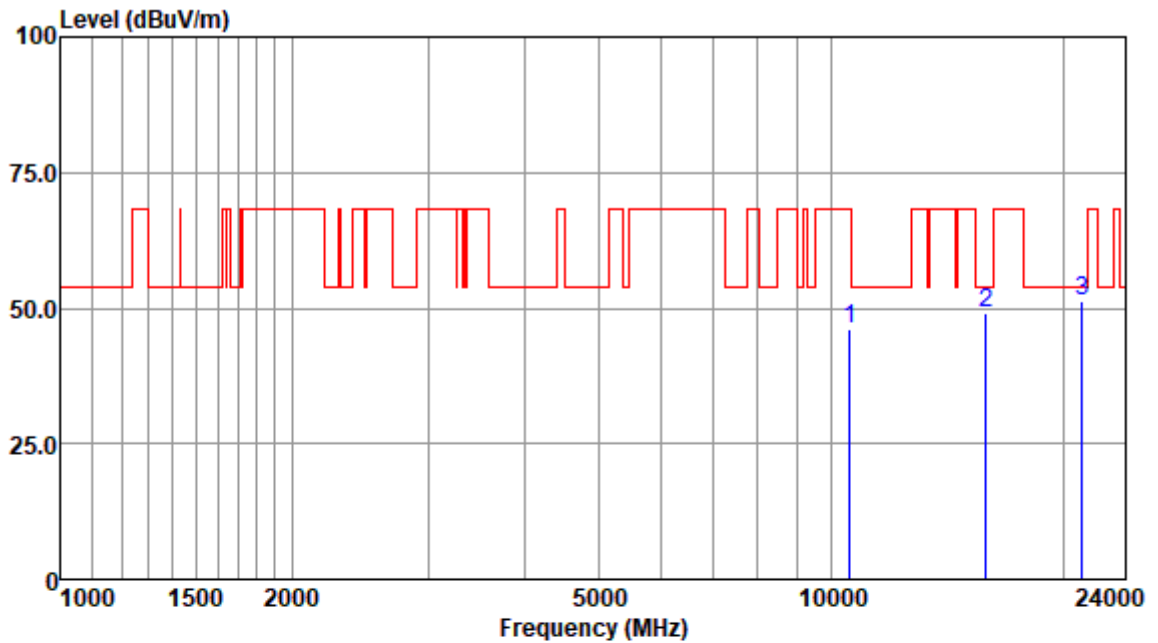
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	35.01	6.62	34.54	48.60	68.20	-19.60	Peak
15810.00	37.61	9.16	36.51	50.90	54.00	-3.10	Peak
21080.00	43.58	12.07	36.06	51.60	54.00	-2.40	Peak

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



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



Antenna Polarity :VERTICAL

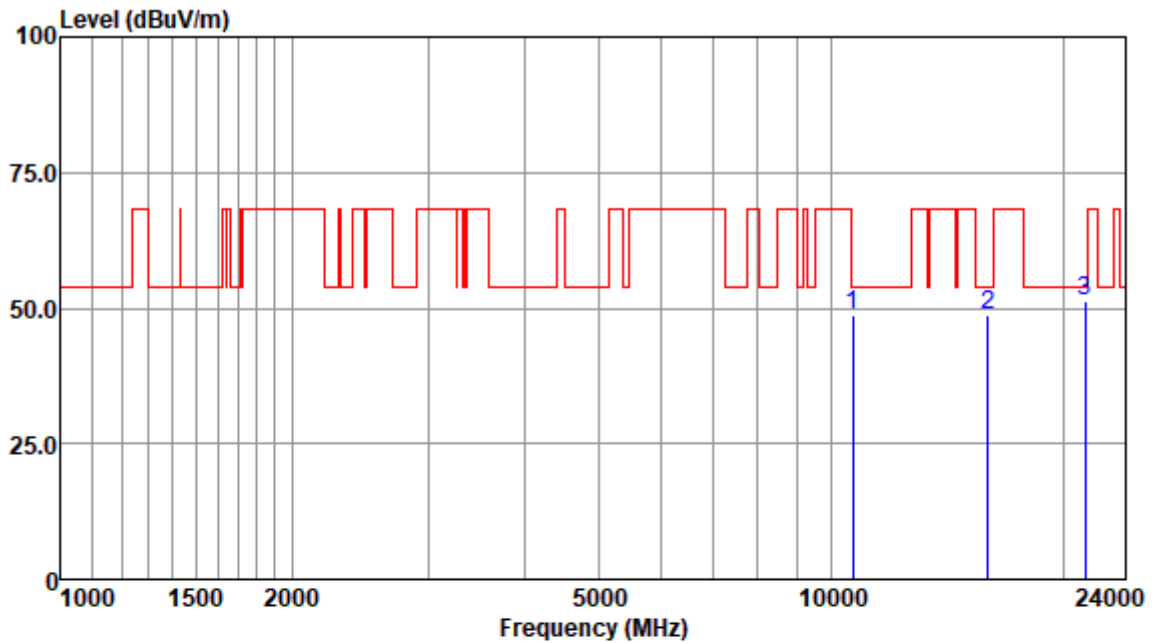
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
10540.00	39.21	35.01	6.62	34.54	46.30	68.20	-21.90		Peak
15810.00	38.84	37.61	9.16	36.51	49.10	54.00	-4.90		Peak
21080.00	31.71	43.58	12.07	36.06	51.30	54.00	-2.70		Peak

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



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



Antenna Polarity :HORIZONTAL

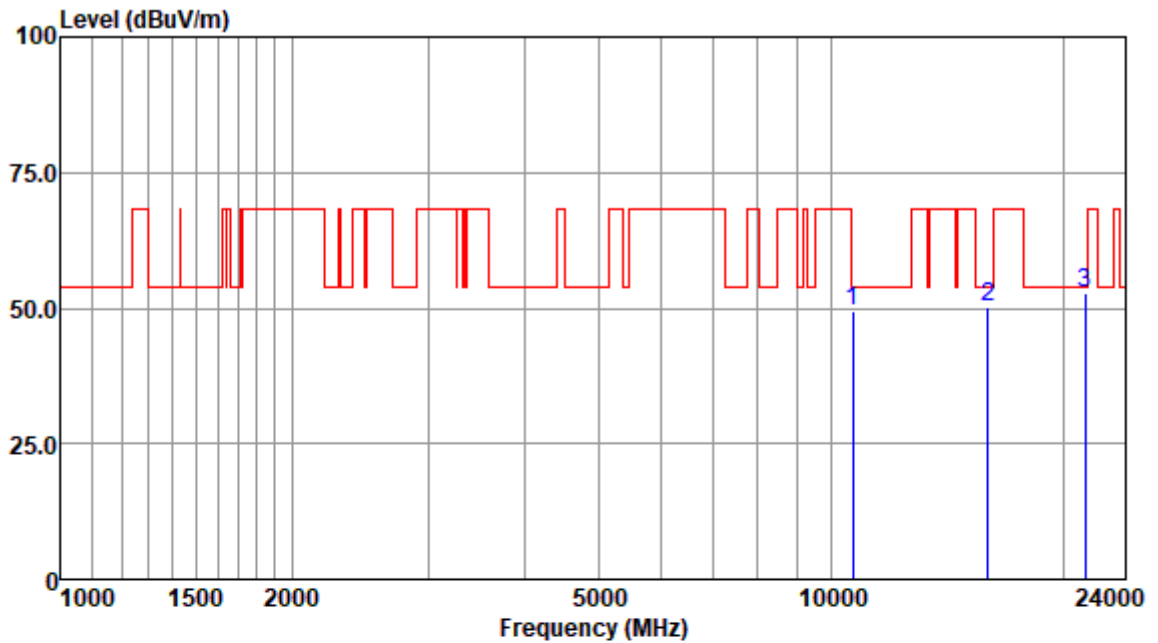
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	35.07	6.66	34.59	48.70	54.00	-5.30	Peak
15930.00	37.70	8.53	36.45	48.80	54.00	-5.20	Peak
21240.00	43.69	12.18	36.07	51.30	54.00	-2.70	Peak

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



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



Antenna Polarity :VERTICAL

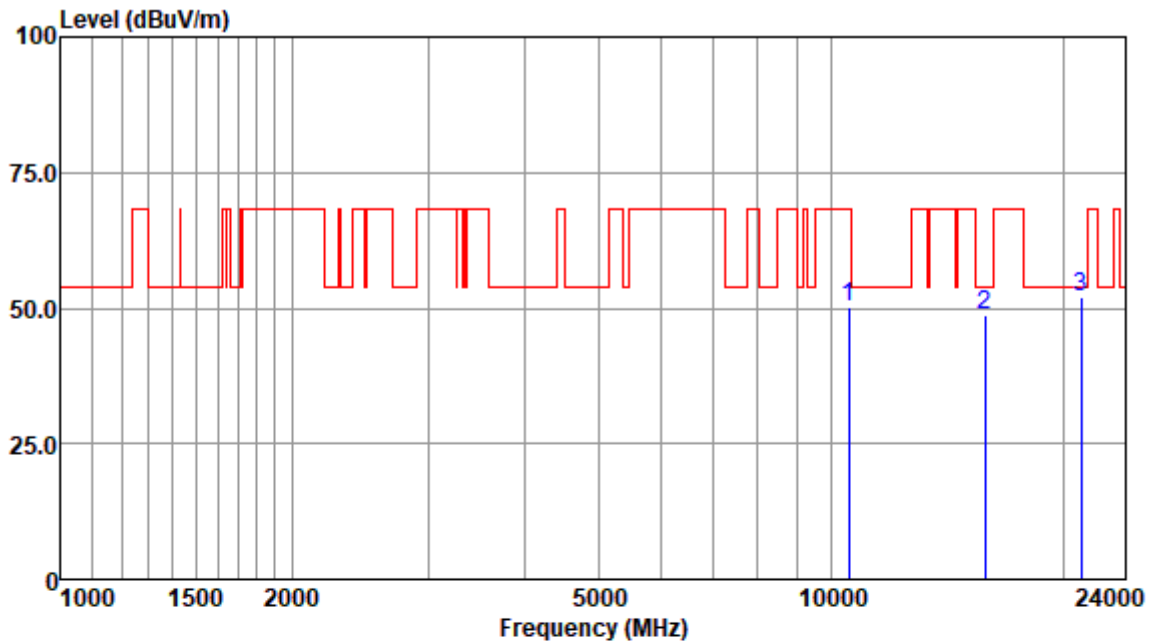
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	35.07	6.66	34.59	49.60	54.00	-4.40	Peak
15930.00	37.70	8.53	36.45	50.20	54.00	-3.80	Peak
21240.00	43.69	12.18	36.07	52.90	54.00	-1.10	Peak

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



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



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	
10520.00	34.98	6.60	34.51	50.20	68.20	-18.00	Peak
15780.00	37.56	9.48	36.55	48.80	54.00	-5.20	Peak
21040.00	43.58	12.07	36.06	51.90	54.00	-2.10	Peak

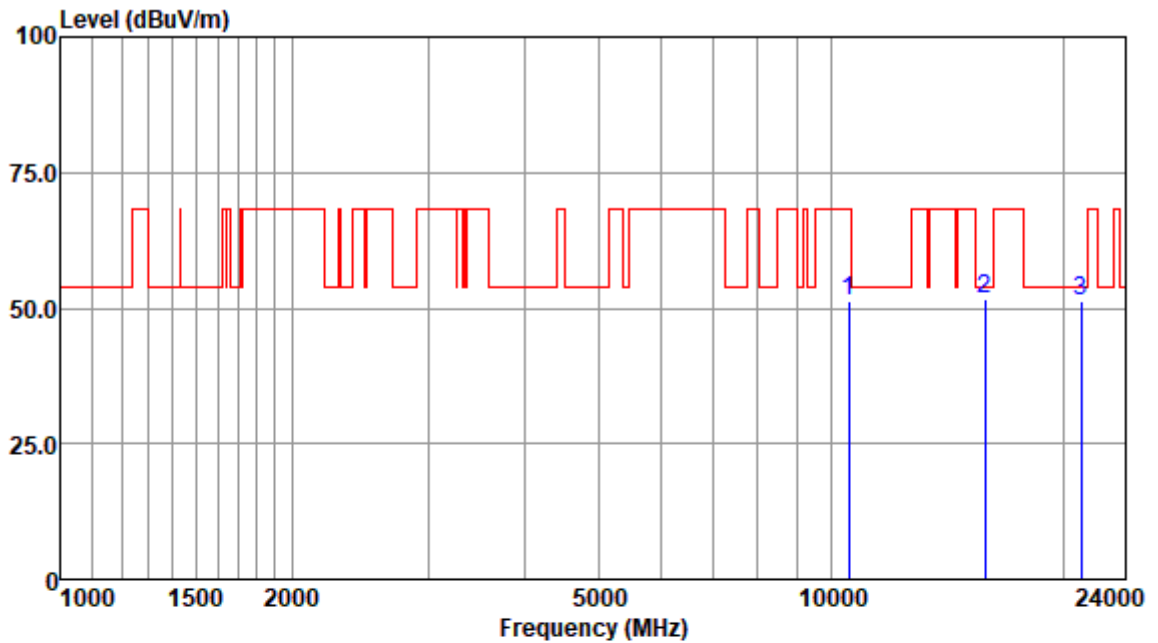
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10520.00	44.23	34.98	6.60	34.51	51.30	68.20	-16.90	Peak
15780.00	41.21	37.56	9.48	36.55	51.70	54.00	-2.30	Peak
21040.00	31.71	43.58	12.07	36.06	51.30	54.00	-2.70	Peak

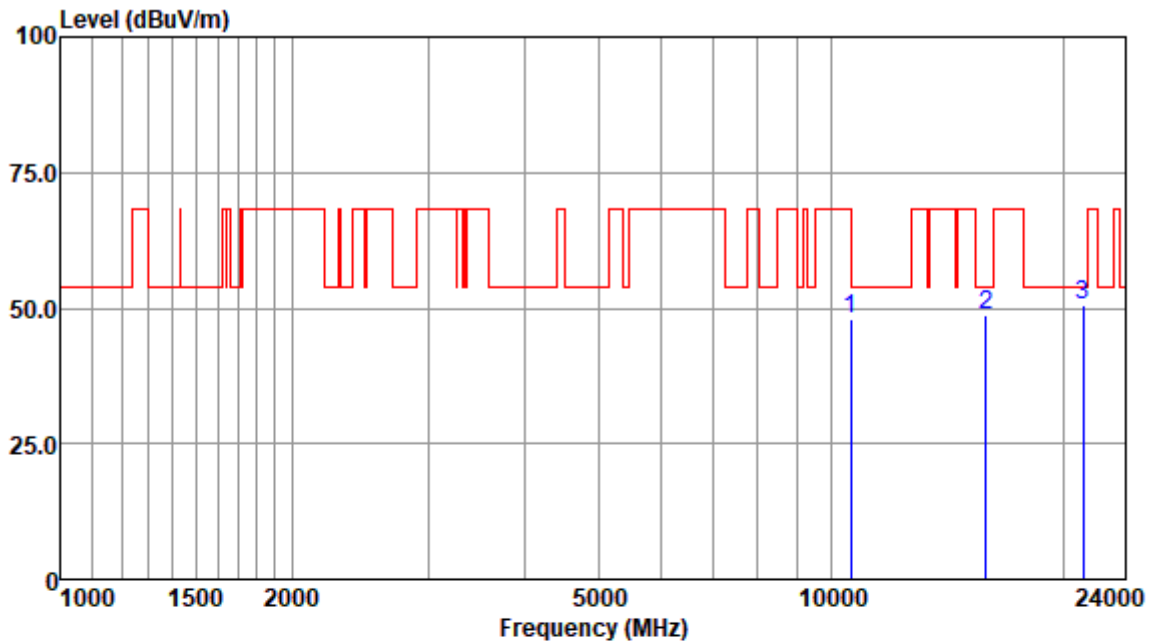
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

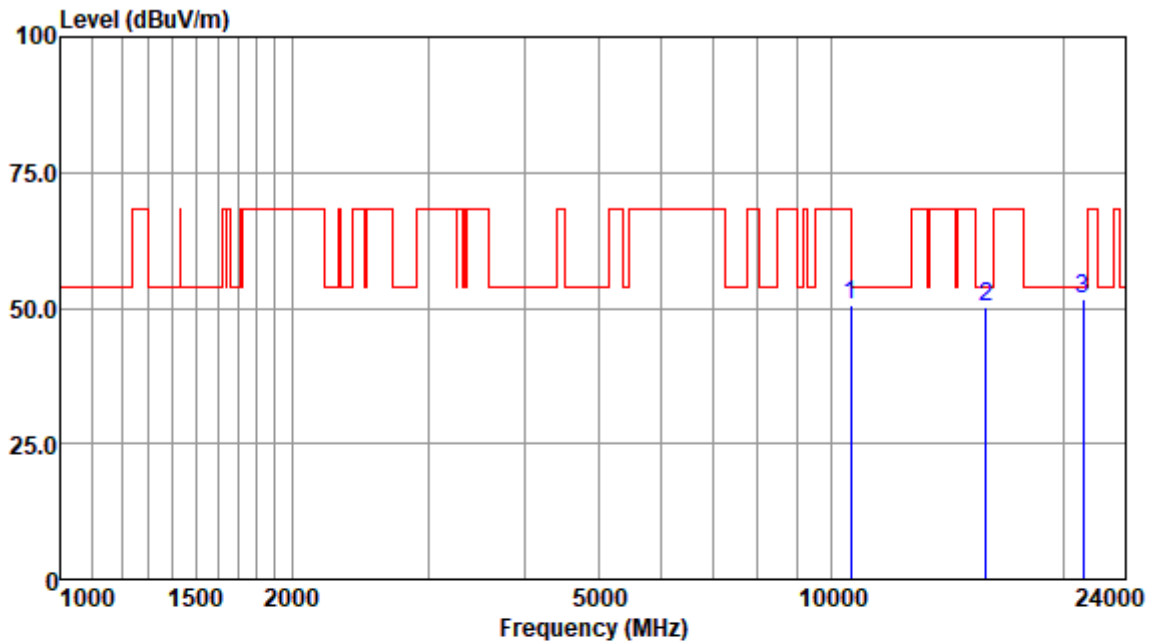
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10560.00	35.04	6.64	34.56	48.10	68.20	-20.10	Peak
15840.00	37.61	9.16	36.51	48.80	54.00	-5.20	Peak
21120.00	43.62	12.11	36.07	50.60	54.00	-3.40	Peak

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



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



Antenna Polarity :VERTICAL

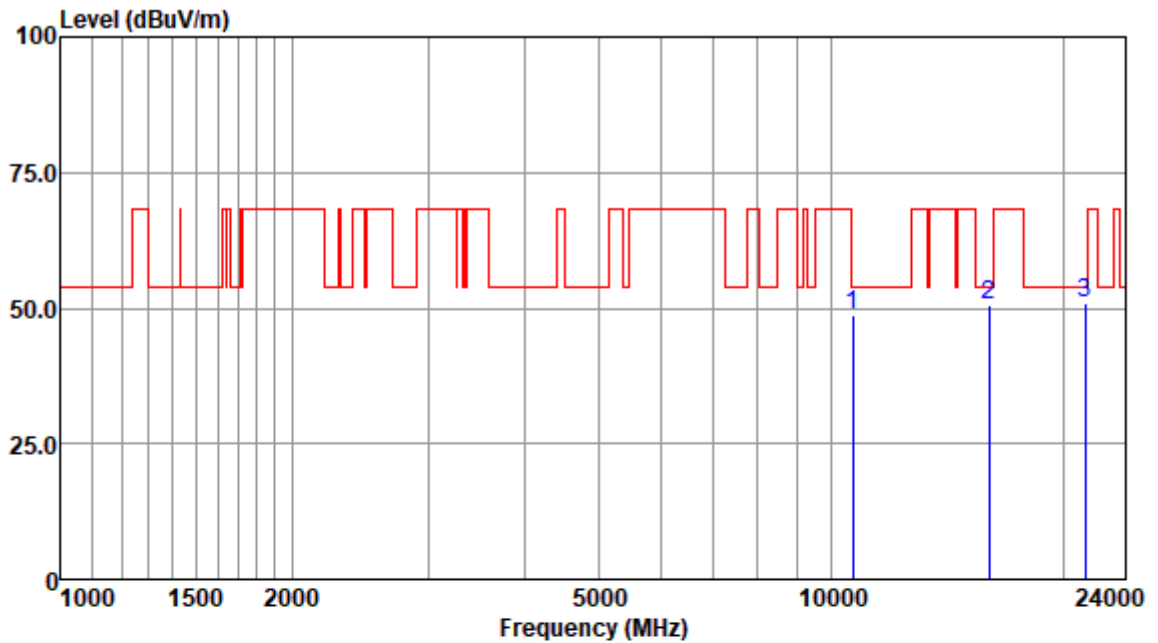
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
10560.00	43.48	35.04	6.64	34.56	50.60	68.20	-17.60		Peak
15840.00	39.94	37.61	9.16	36.51	50.20	54.00	-3.80		Peak
21120.00	32.04	43.62	12.11	36.07	51.70	54.00	-2.30		Peak

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



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



Antenna Polarity :HORIZONTAL

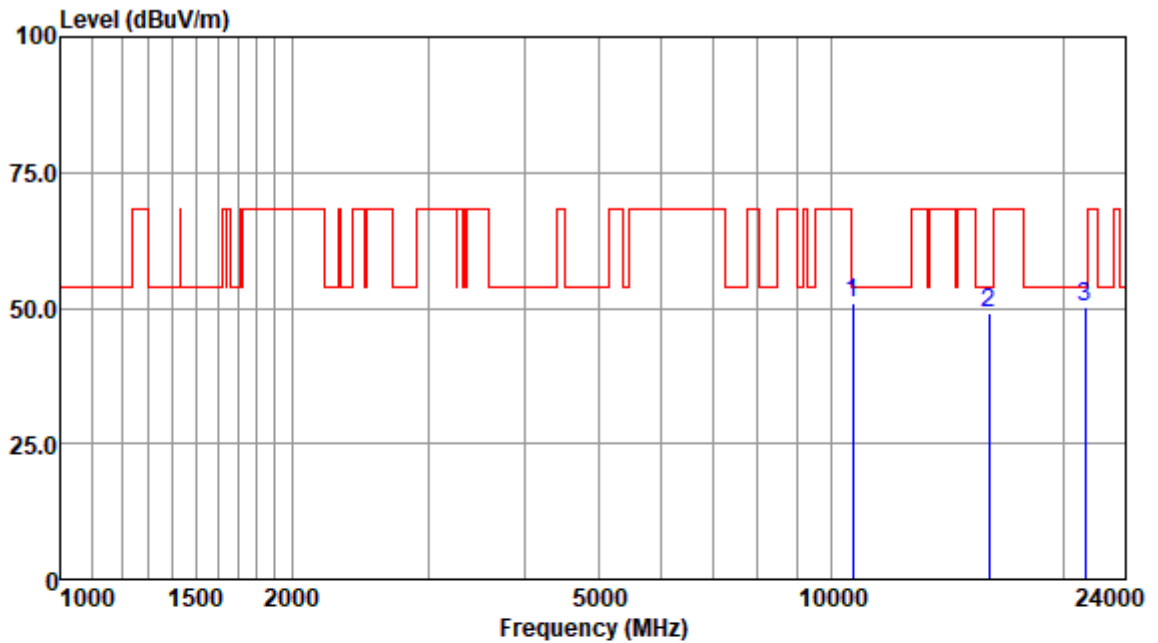
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor Loss Factor Level Line Limit							Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10640.00	41.43	35.10	6.68	34.61	48.60	54.00	-5.40	Peak
15960.00	40.78	37.74	8.60	36.42	50.70	54.00	-3.30	Peak
21280.00	31.10	43.69	12.18	36.07	50.90	54.00	-3.10	Peak

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
10640.00	43.63	35.10	6.68	34.61	50.80	54.00	-3.20	Peak
15960.00	39.28	37.74	8.60	36.42	49.20	54.00	-4.80	Peak
21280.00	30.50	43.69	12.18	36.07	50.30	54.00	-3.70	Peak

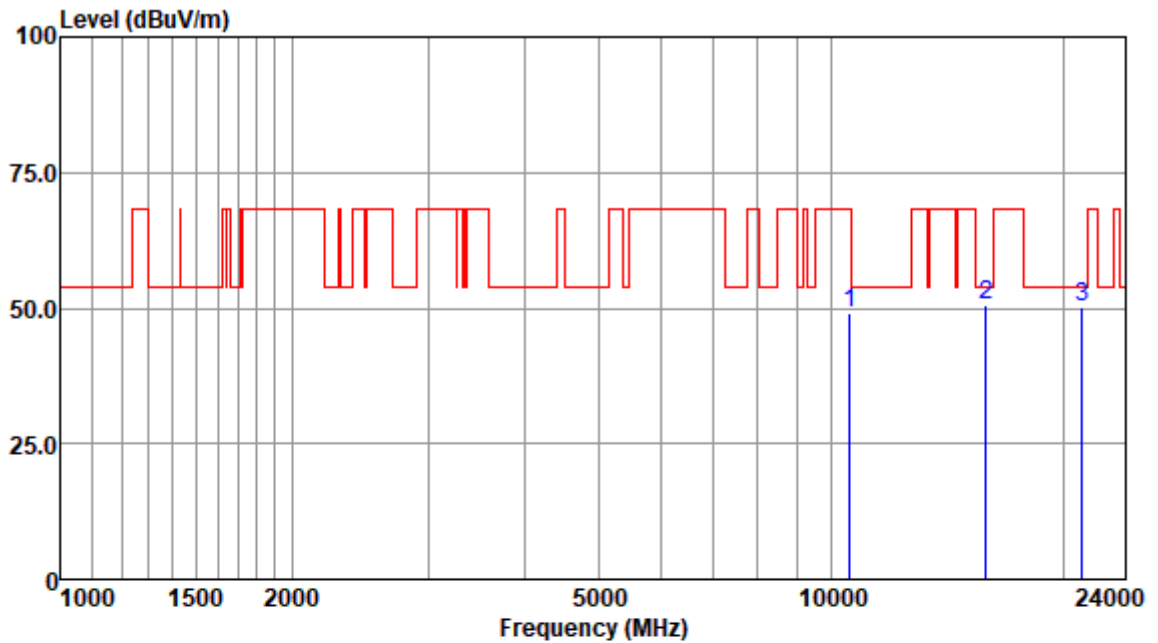
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

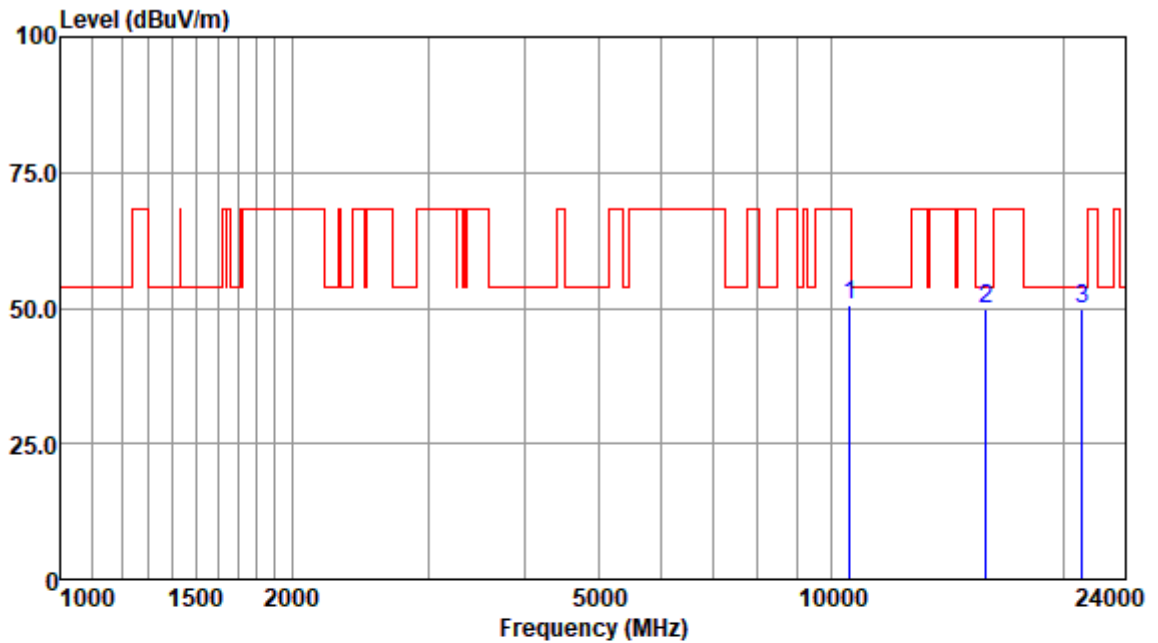
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
10540.00	35.01	6.62	34.54	49.20	68.20	-19.00 Peak
15810.00	37.61	9.16	36.51	50.40	54.00	-3.60 Peak
21080.00	43.58	12.07	36.06	50.10	54.00	-3.90 Peak

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



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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

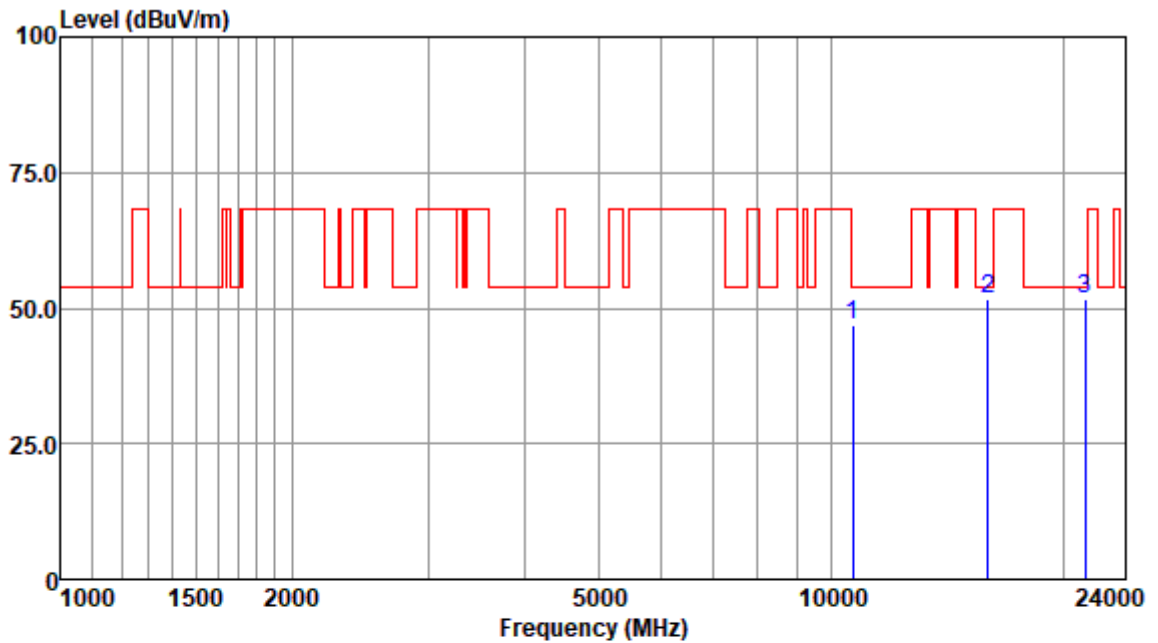
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10540.00	43.41	35.01	6.62	34.54	50.50	68.20	-17.70	Peak
15810.00	39.44	37.61	9.16	36.51	49.70	54.00	-4.30	Peak
21080.00	30.31	43.58	12.07	36.06	49.90	54.00	-4.10	Peak

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



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; 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	
10620.00	35.07	6.66	34.59	46.80	54.00	-7.20	Peak
15930.00	37.70	8.53	36.45	51.70	54.00	-2.30	Peak
21240.00	43.69	12.18	36.07	51.50	54.00	-2.50	Peak

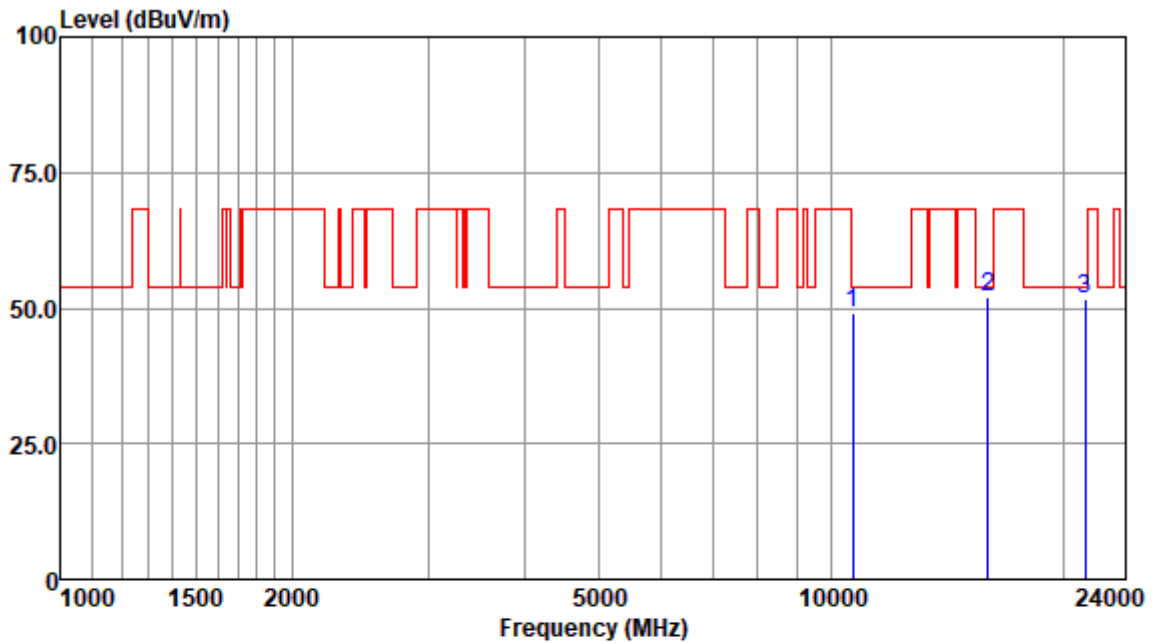
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

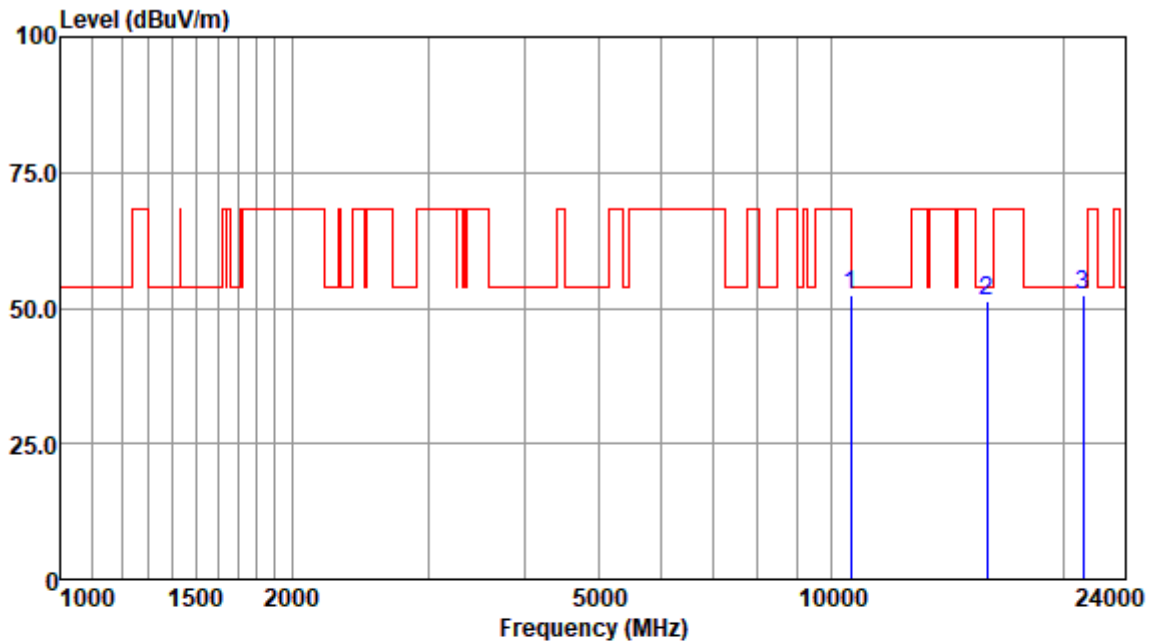
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10620.00	35.07	6.66	34.59	49.20	54.00	-4.80	Peak
15930.00	37.70	8.53	36.45	52.00	54.00	-2.00	Peak
21240.00	43.69	12.18	36.07	51.80	54.00	-2.20	Peak

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



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

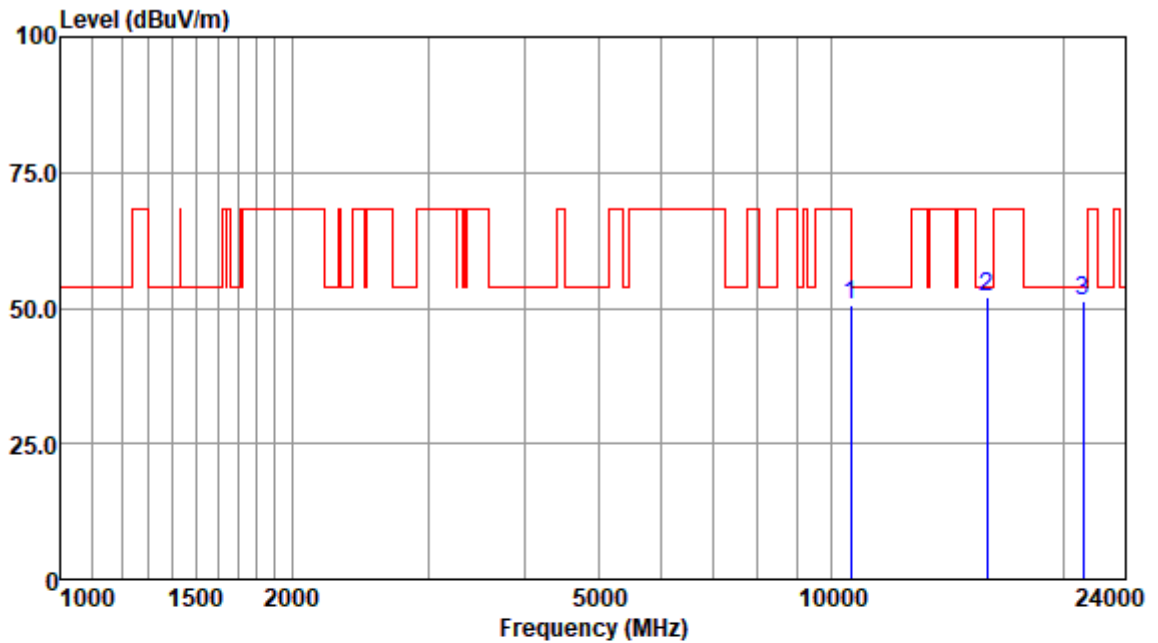
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
10580.00	35.04	6.64	34.56	52.50	68.20	-15.70	Peak
15870.00	37.65	8.85	36.48	51.20	54.00	-2.80	Peak
21160.00	43.62	12.11	36.07	52.30	54.00	-1.70	Peak

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



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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

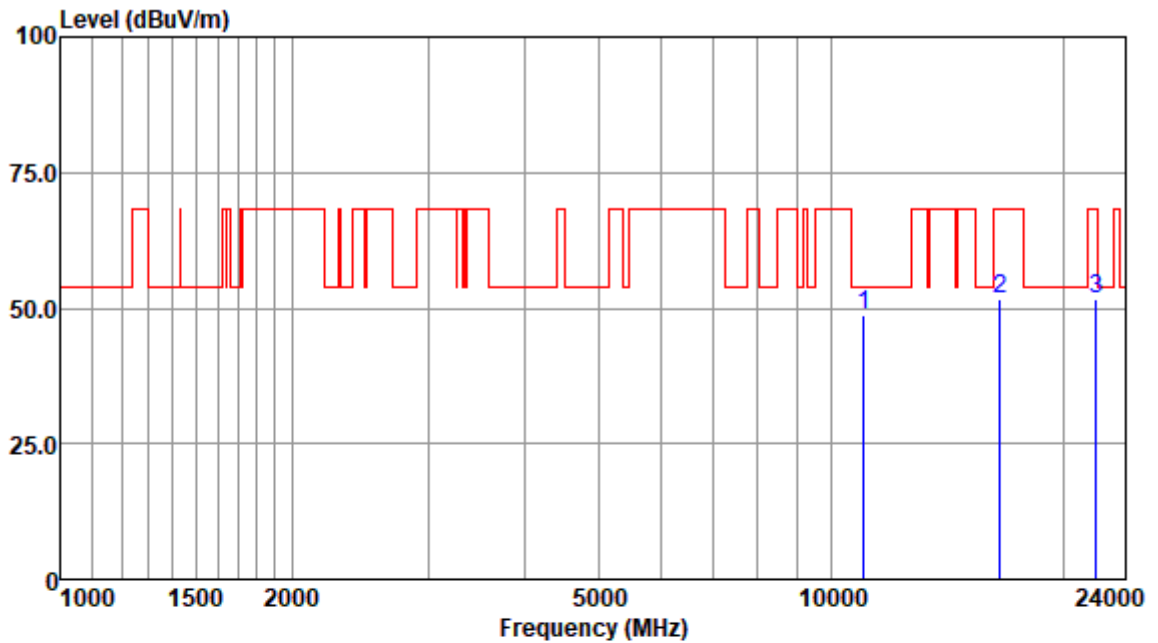
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
10580.00	43.48	35.04	6.64	34.56	50.60	68.20	-17.60		Peak
15870.00	42.18	37.65	8.85	36.48	52.20	54.00	-1.80		Peak
21160.00	31.54	43.62	12.11	36.07	51.20	54.00	-2.80		Peak

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



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



Antenna Polarity :HORIZONTAL

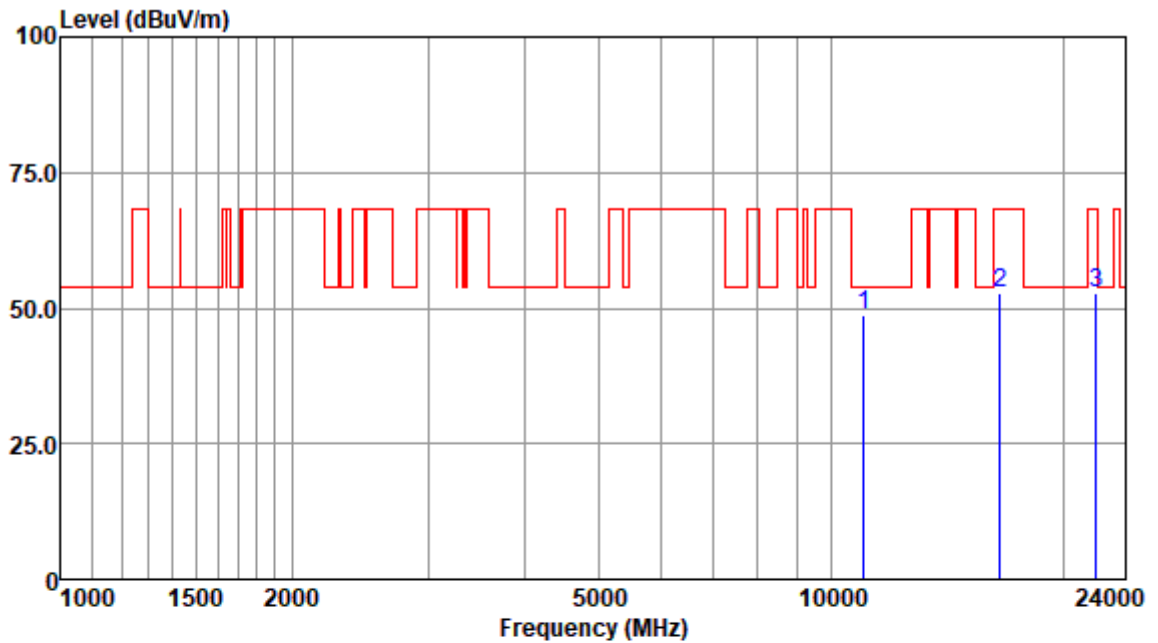
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	35.42	6.89	35.08	48.60	54.00	-5.40	Peak
16500.00	38.47	9.26	36.11	51.80	68.20	-16.40	Peak
22000.00	44.07	12.56	36.11	51.80	68.20	-16.40	Peak

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



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



Antenna Polarity :VERTICAL

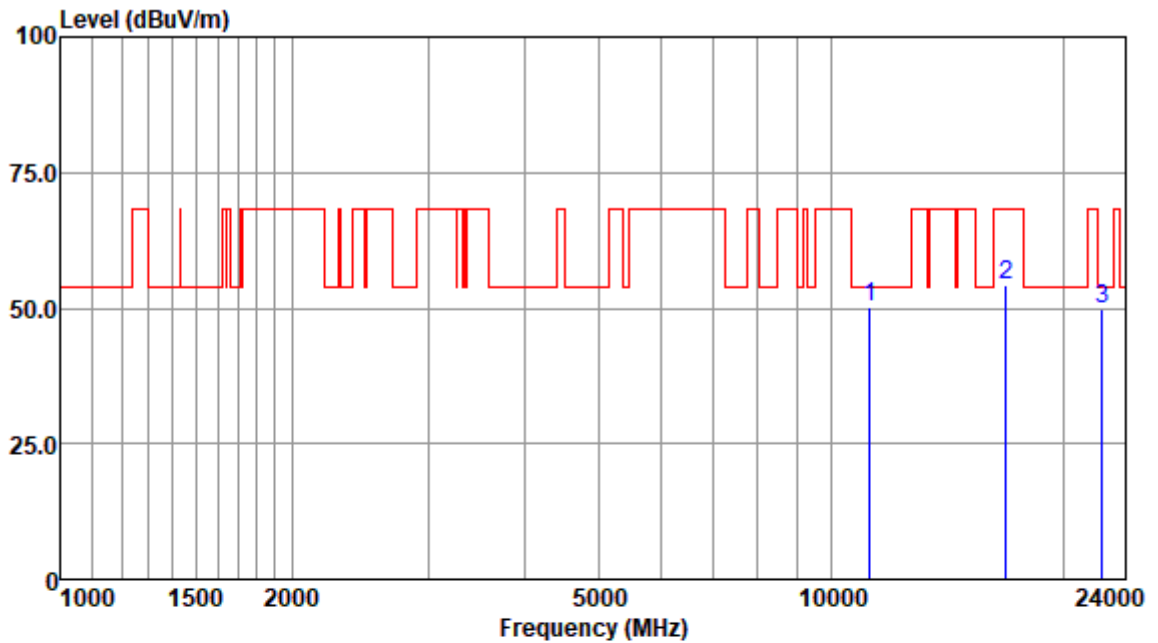
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11000.00	41.57	35.42	6.89	35.08	48.80	54.00	-5.20	Peak
16500.00	41.08	38.47	9.26	36.11	52.70	68.20	-15.50	Peak
22000.00	32.38	44.07	12.56	36.11	52.90	68.20	-15.30	Peak

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



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



Antenna Polarity :HORIZONTAL

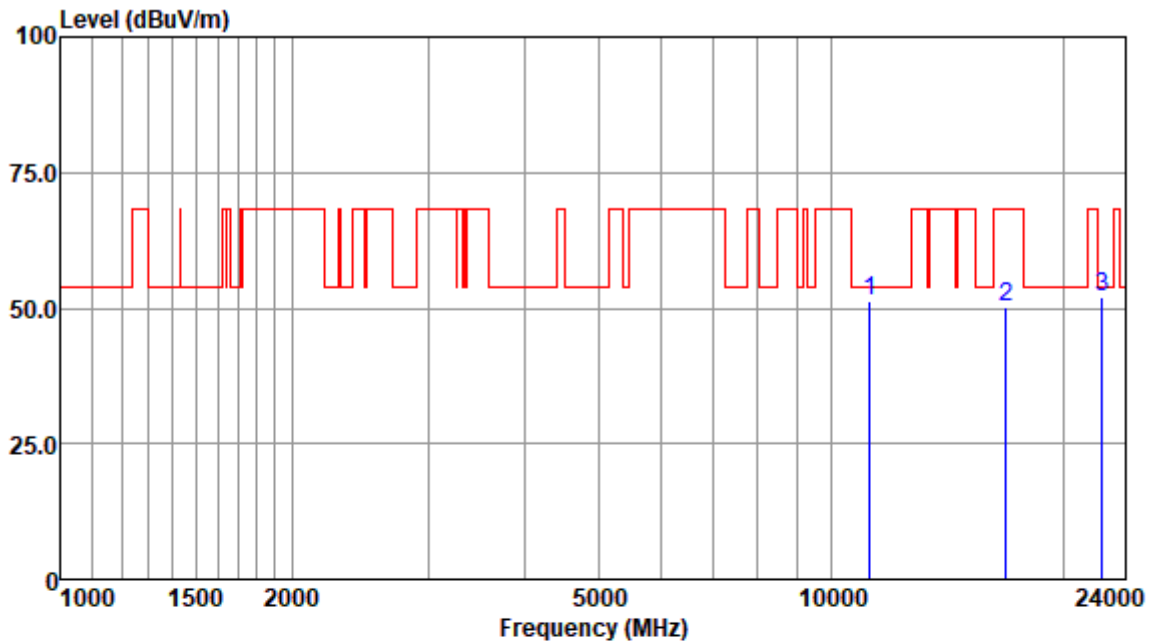
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	35.56	7.04	35.33	50.30	54.00	-3.70	Peak
16800.00	39.31	9.66	36.03	54.20	68.20	-14.00	Peak
22400.00	44.24	12.73	36.13	49.70	54.00	-4.30	Peak

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



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



Antenna Polarity :VERTICAL

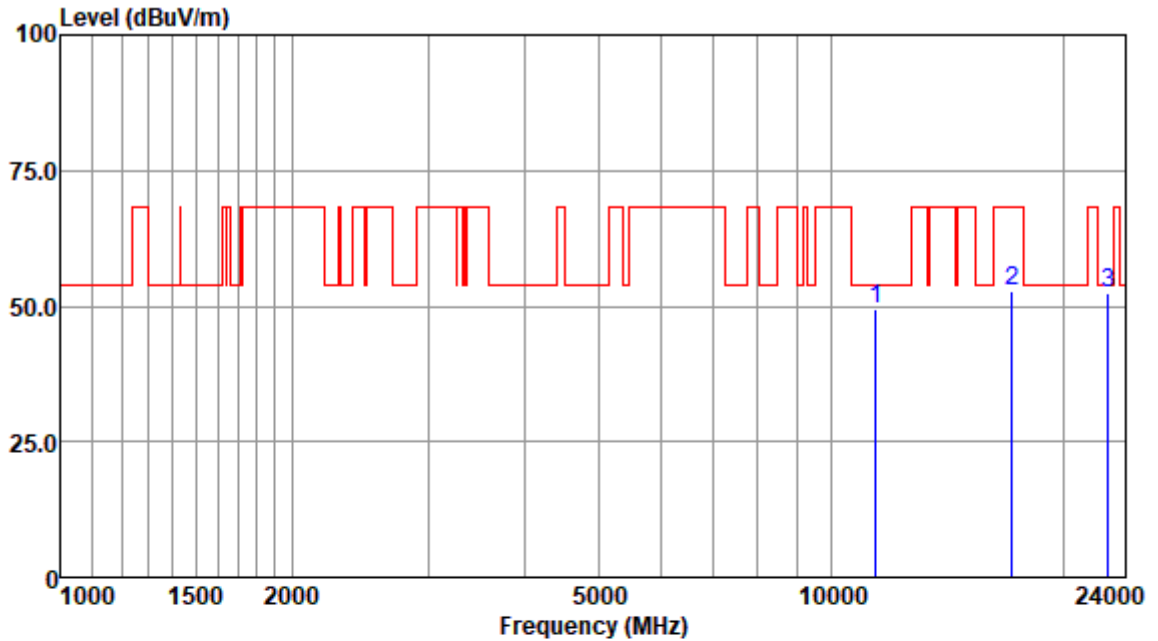
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	35.56	7.04	35.33	51.30	54.00	-2.70	Peak
16800.00	39.31	9.66	36.03	50.30	68.20	-17.90	Peak
22400.00	44.24	12.73	36.13	51.90	54.00	-2.10	Peak

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



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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB		
11400.00	42.23	35.73	7.28	35.74	49.50	54.00	-4.50	Peak	
17100.00	38.72	40.12	9.99	36.03	52.80	68.20	-15.40	Peak	
22800.00	31.06	44.45	12.94	36.15	52.30	54.00	-1.70	Peak	

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

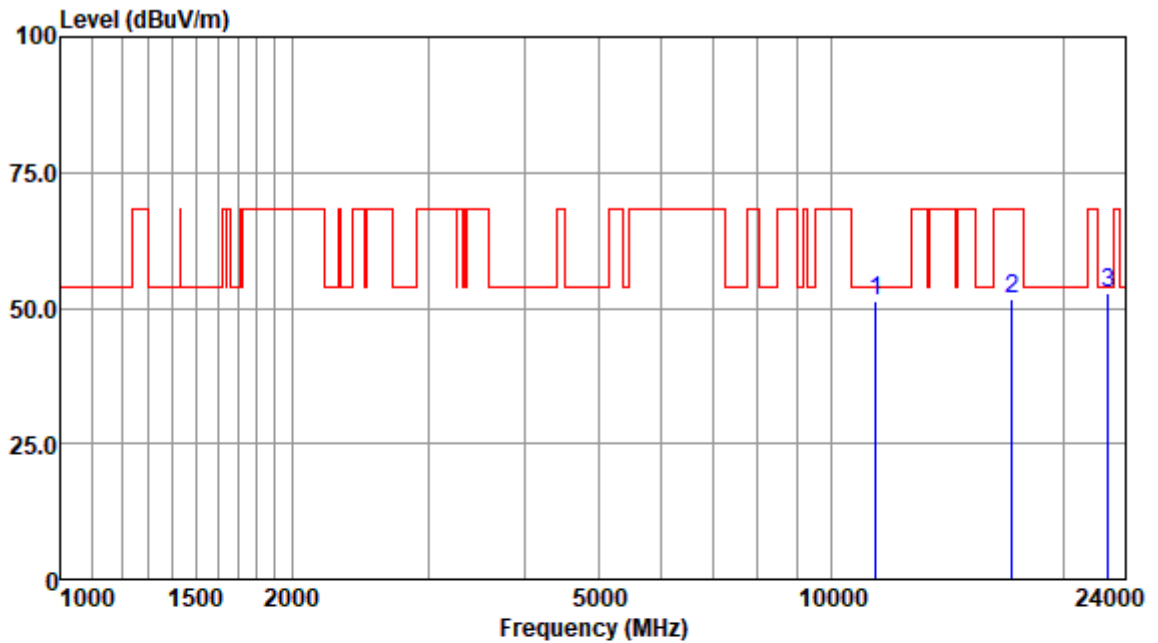


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

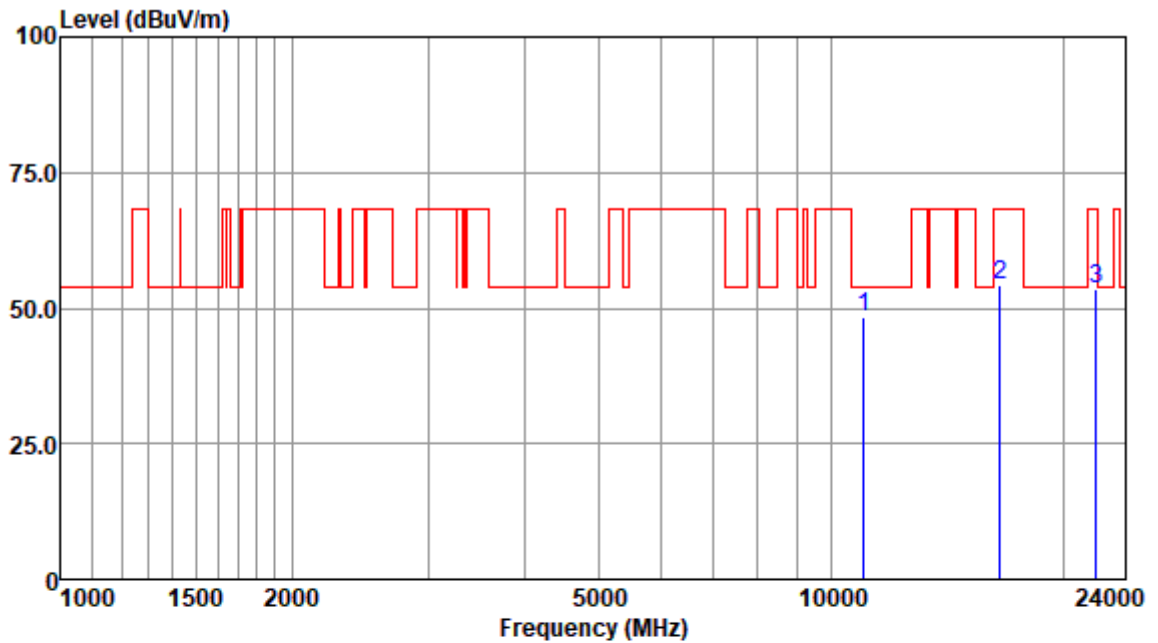
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11400.00	44.08	35.73	7.28	35.74	51.35	54.00	-2.65	Peak
17100.00	37.57	40.12	9.99	36.03	51.65	68.20	-16.55	Peak
22800.00	31.55	44.45	12.94	36.15	52.79	54.00	-1.21	Peak

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



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



Antenna Polarity :HORIZONTAL

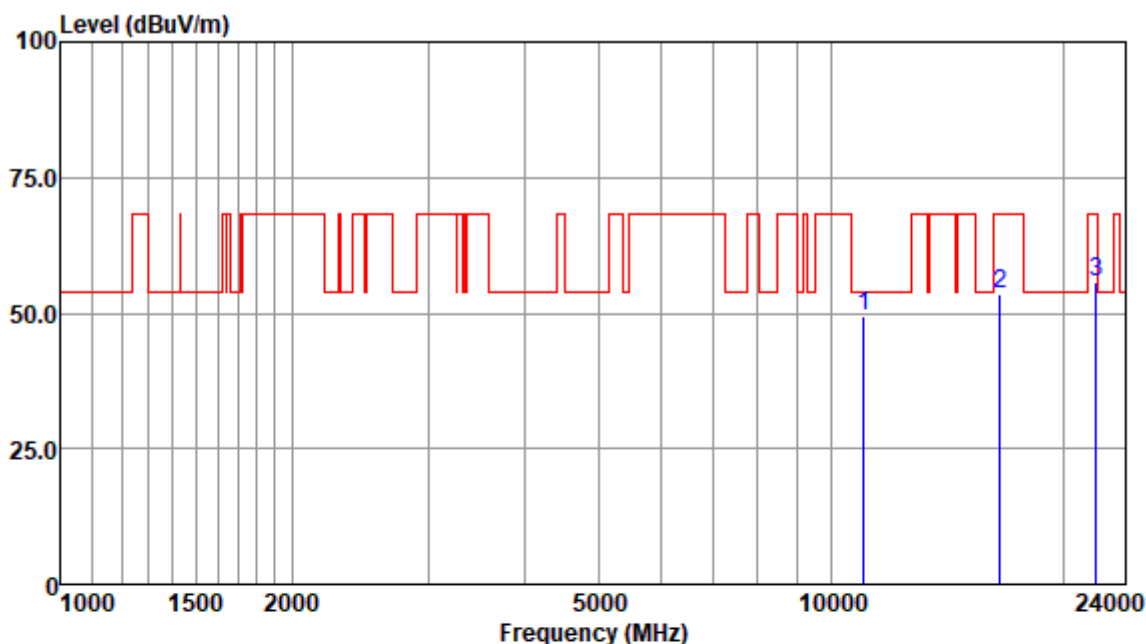
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	35.42	6.89	35.08	48.23	54.00	-5.77	Peak
16500.00	38.47	9.26	36.11	54.27	68.20	-13.93	Peak
22000.00	44.07	12.56	36.11	53.65	68.20	-14.55	Peak

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



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



Antenna Polarity :VERTICAL

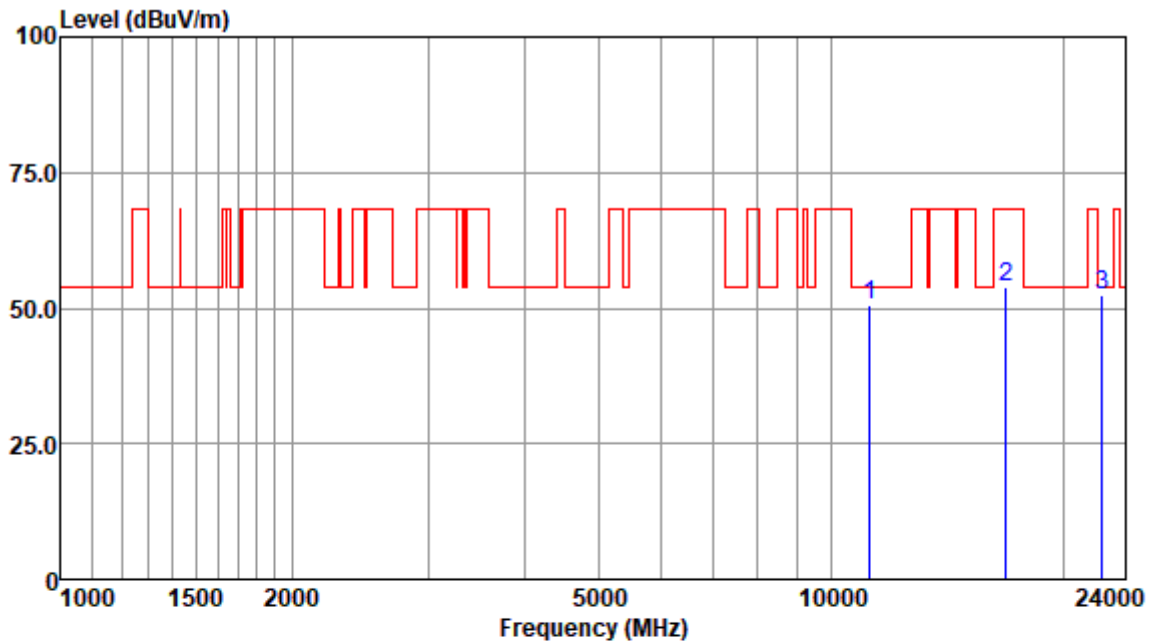
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11000.00	42.12	35.42	6.89	35.08	49.35	54.00	-4.65	Peak
16500.00	42.03	38.47	9.26	36.11	53.65	68.20	-14.55	Peak
22000.00	35.26	44.07	12.56	36.11	55.78	68.20	-12.42	Peak

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



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



Antenna Polarity :HORIZONTAL

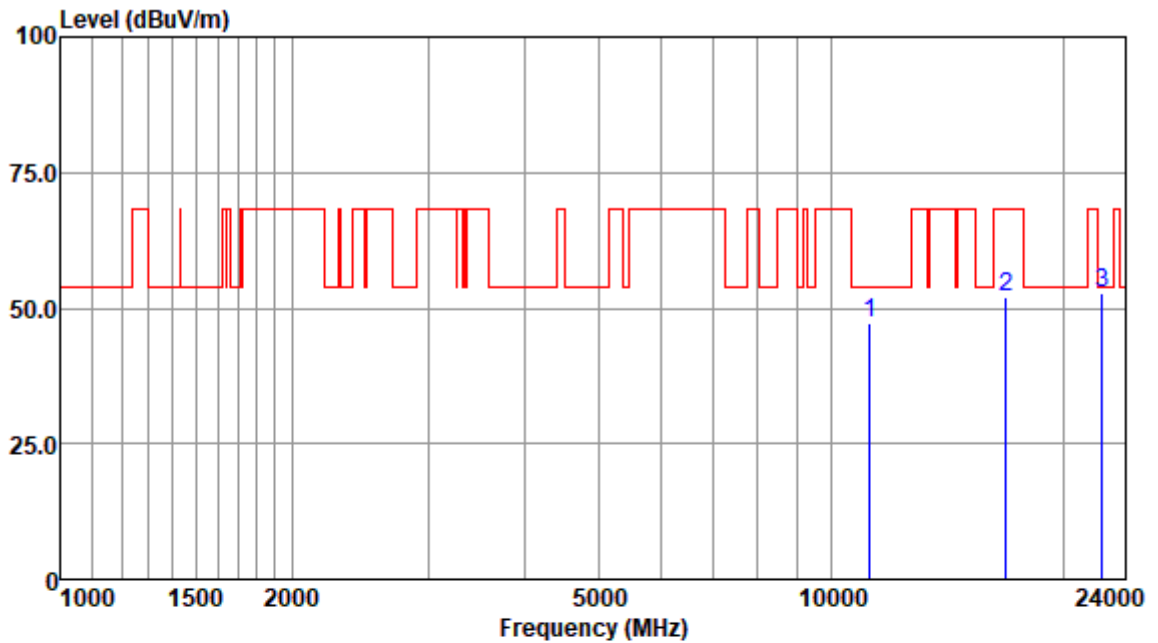
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	35.56	7.04	35.33	50.47	54.00	-3.53	Peak
16800.00	39.31	9.66	36.03	53.79	68.20	-14.41	Peak
22400.00	44.24	12.73	36.13	52.32	54.00	-1.68	Peak

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



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



Antenna Polarity :VERTICAL

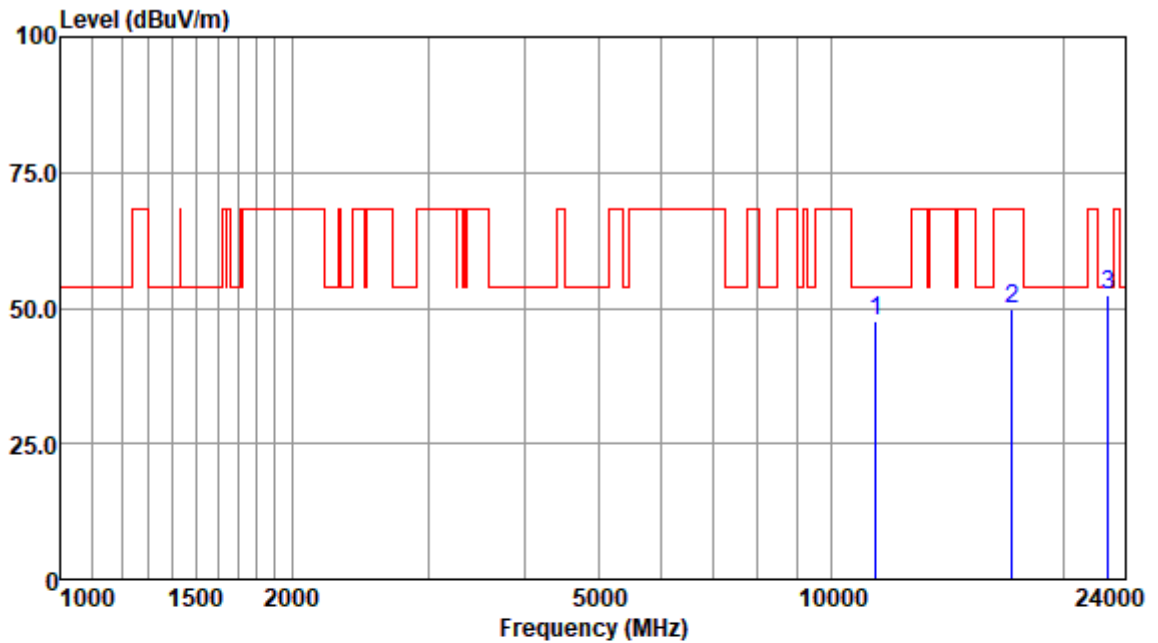
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11200.00	35.56	7.04	35.33	47.40	54.00	-6.60	Peak
16800.00	39.31	9.66	36.03	52.17	68.20	-16.03	Peak
22400.00	44.24	12.73	36.13	52.92	54.00	-1.08	Peak

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



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



Antenna Polarity :HORIZONTAL

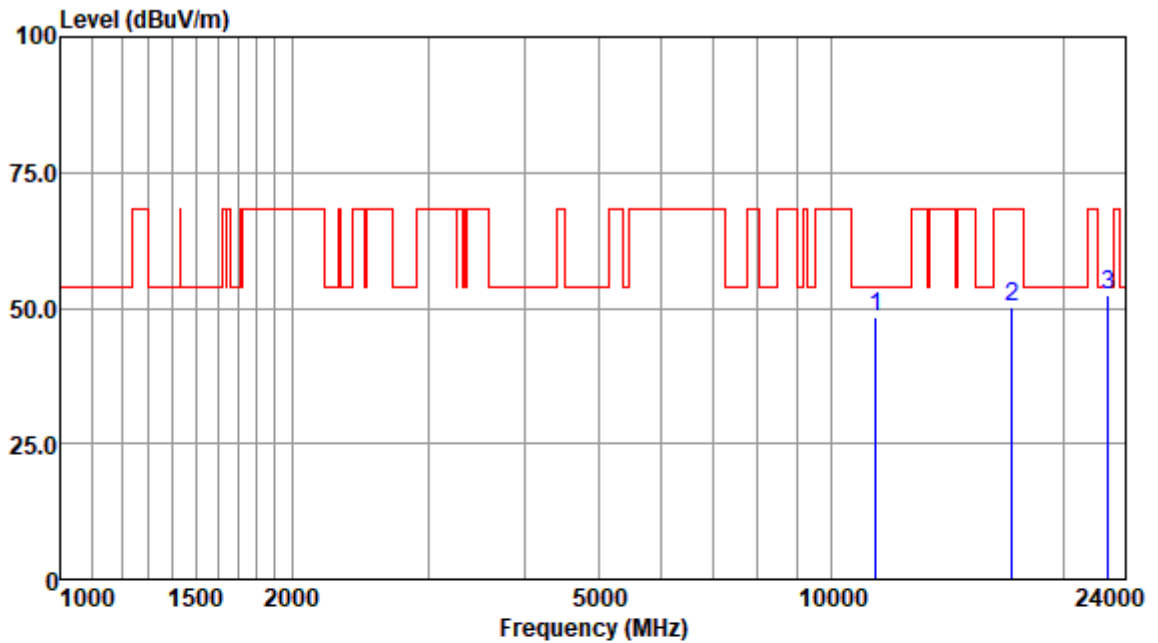
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB	
11400.00	40.41	35.73	7.28	35.74	47.68	54.00	-6.32	Peak
17100.00	35.81	40.12	9.99	36.03	49.89	68.20	-18.31	Peak
22800.00	31.02	44.45	12.94	36.15	52.26	54.00	-1.74	Peak

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



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



Antenna Polarity :VERTICAL

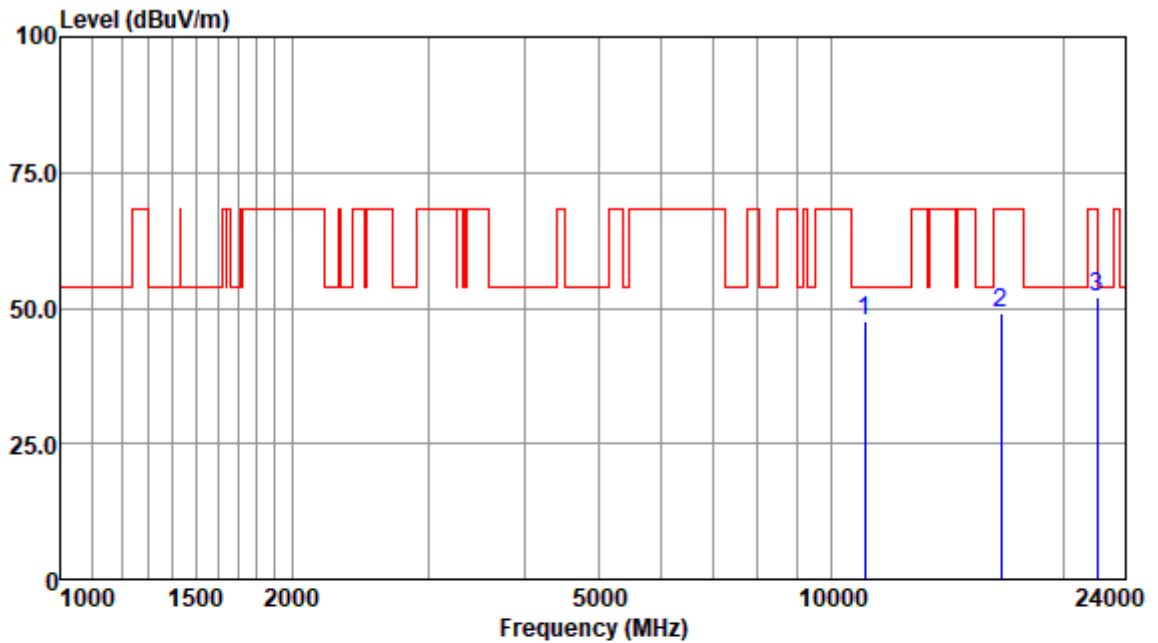
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	35.73	7.28	35.74	48.29	54.00	-5.71	Peak
17100.00	40.12	9.99	36.03	50.19	68.20	-18.01	Peak
22800.00	44.45	12.94	36.15	52.32	54.00	-1.68	Peak

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



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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark		
Level	Factor	Loss	Level	Line	Limit			
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
11020.00	40.55	35.42	6.89	35.08	47.78	54.00	-6.22	Peak
16530.00	37.11	38.61	9.33	36.09	48.96	68.20	-19.24	Peak
22040.00	31.40	44.07	12.56	36.11	51.92	54.00	-2.08	Peak

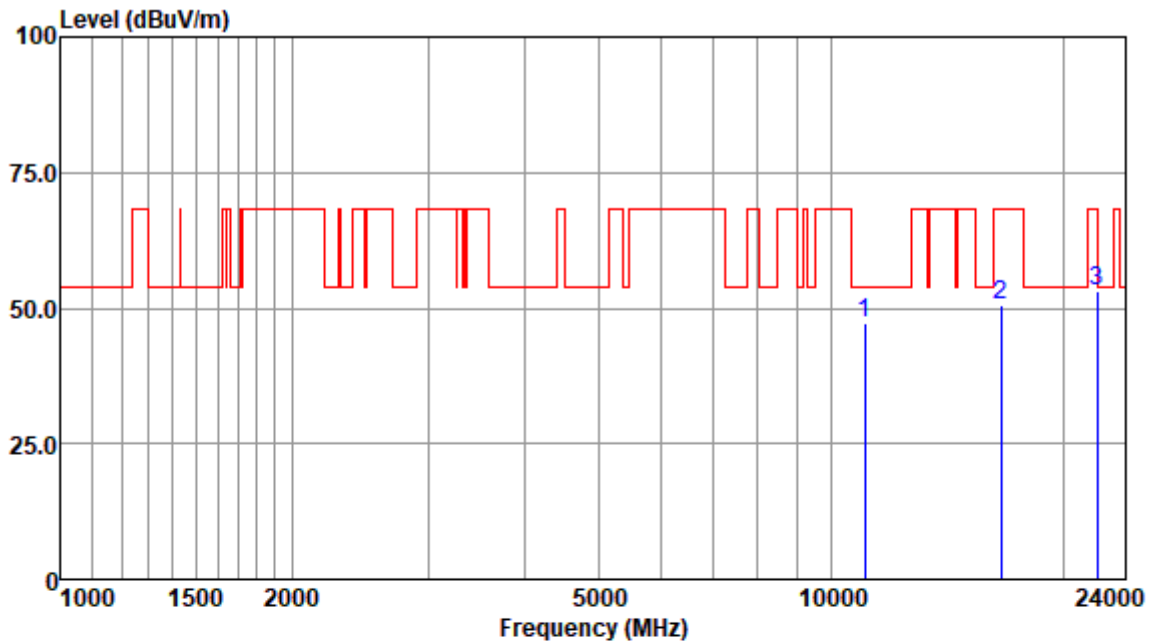
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

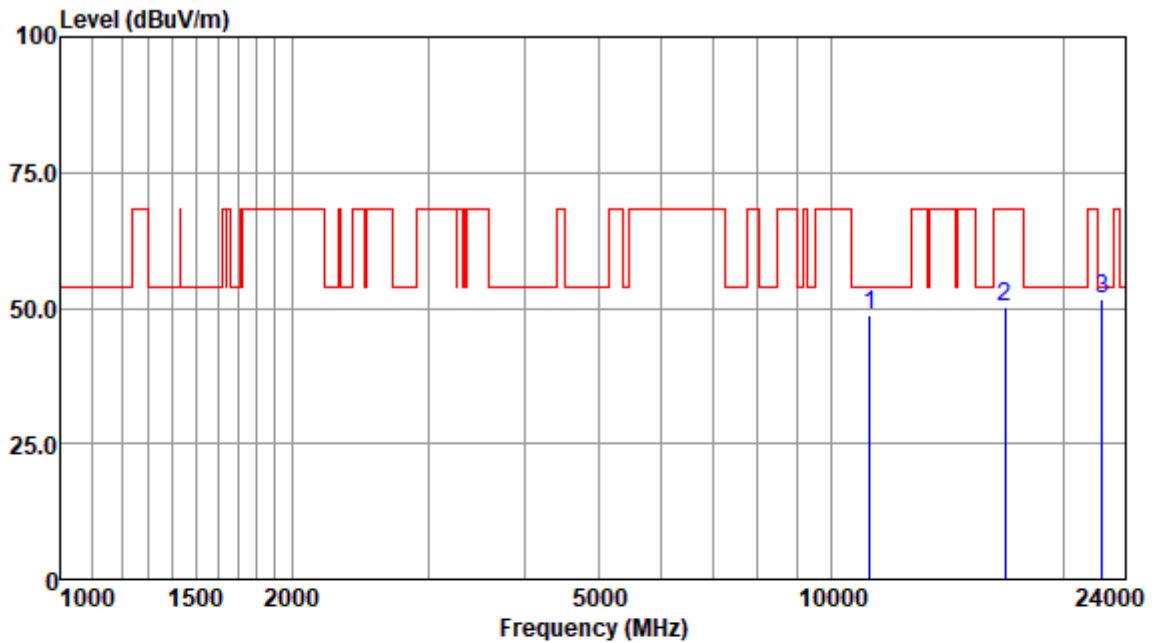
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	35.42	6.89	35.08	47.36	54.00	-6.64	Peak
16530.00	38.61	9.33	36.09	50.38	68.20	-17.82	Peak
22040.00	44.07	12.56	36.11	52.96	54.00	-1.04	Peak

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



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



Antenna Polarity :HORIZONTAL

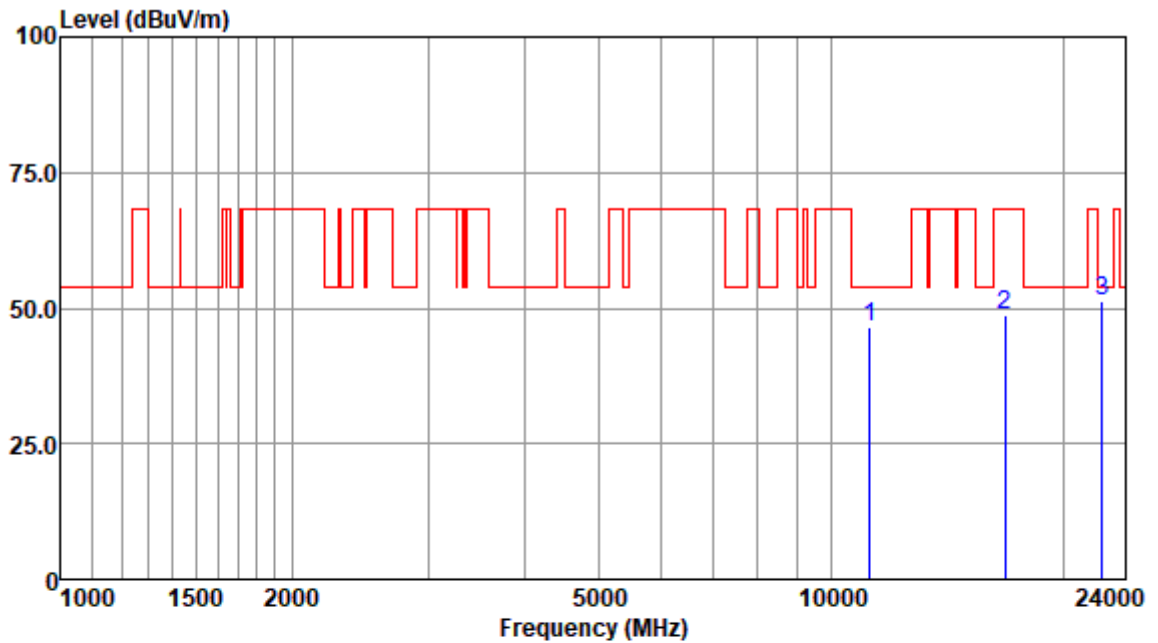
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	35.56	7.04	35.33	48.62	54.00	-5.38	Peak
16770.00	39.15	9.59	36.03	50.29	68.20	-17.91	Peak
22360.00	44.24	12.73	36.13	51.75	54.00	-2.25	Peak

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



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



Antenna Polarity :VERTICAL

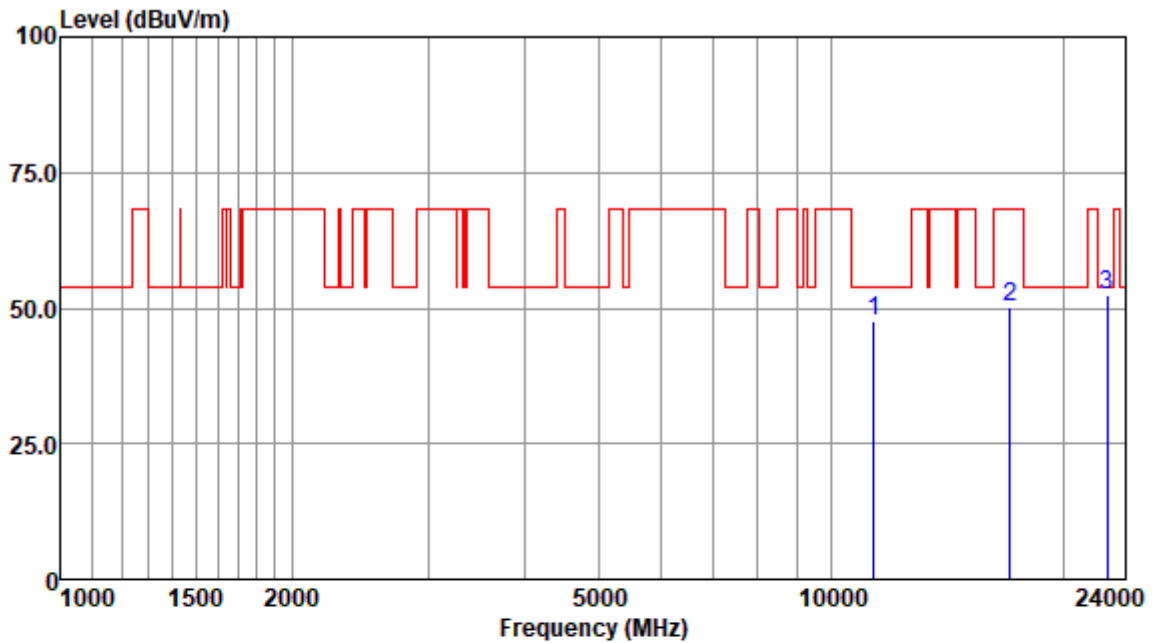
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
	dB/m	dB	dBuV/m	dBuV/m	dB	
11180.00	35.56	7.04	35.33	46.65	54.00	-7.35 Peak
16770.00	36.11	9.59	36.03	48.82	68.20	-19.38 Peak
22360.00	30.43	12.73	36.13	51.27	54.00	-2.73 Peak

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



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



Antenna Polarity :HORIZONTAL

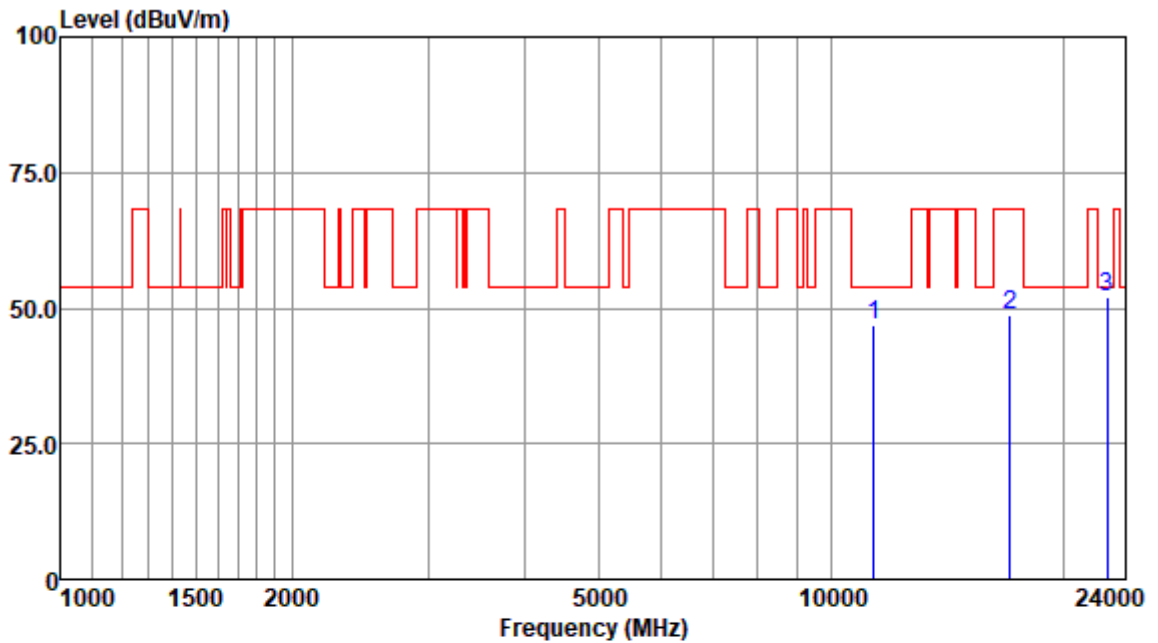
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB	
11340.00	40.38	35.67	7.20	35.60	47.65	54.00	-6.35	Peak
17010.00	36.21	39.96	9.92	36.03	50.06	68.20	-18.14	Peak
22680.00	31.26	44.38	12.87	36.14	52.37	54.00	-1.63	Peak

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



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



Antenna Polarity :VERTICAL

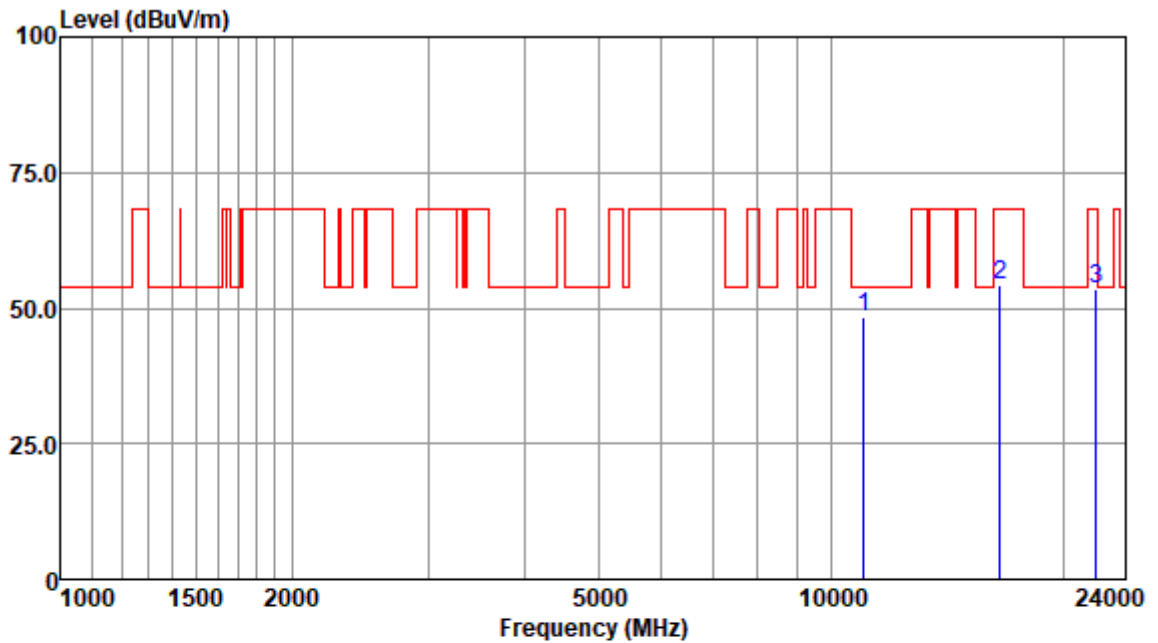
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11340.00	39.42	35.67	7.20	35.60	46.69	54.00	-7.31	Peak
17010.00	34.84	39.96	9.92	36.03	48.69	68.20	-19.51	Peak
22680.00	30.84	44.38	12.87	36.14	51.95	54.00	-2.05	Peak

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



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



Antenna Polarity :HORIZONTAL

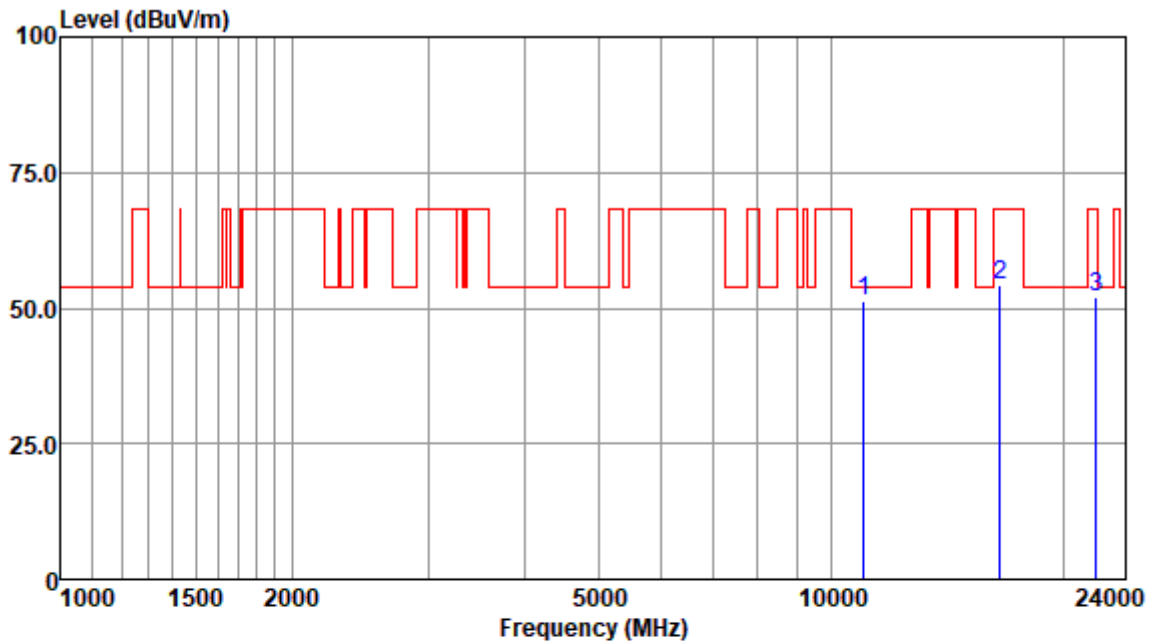
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11000.00	35.42	6.89	35.08	48.23	54.00	-5.77	Peak
16500.00	38.47	9.26	36.11	54.27	68.20	-13.93	Peak
22000.00	44.07	12.56	36.11	53.65	68.20	-14.55	Peak

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



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



Antenna Polarity :VERTICAL

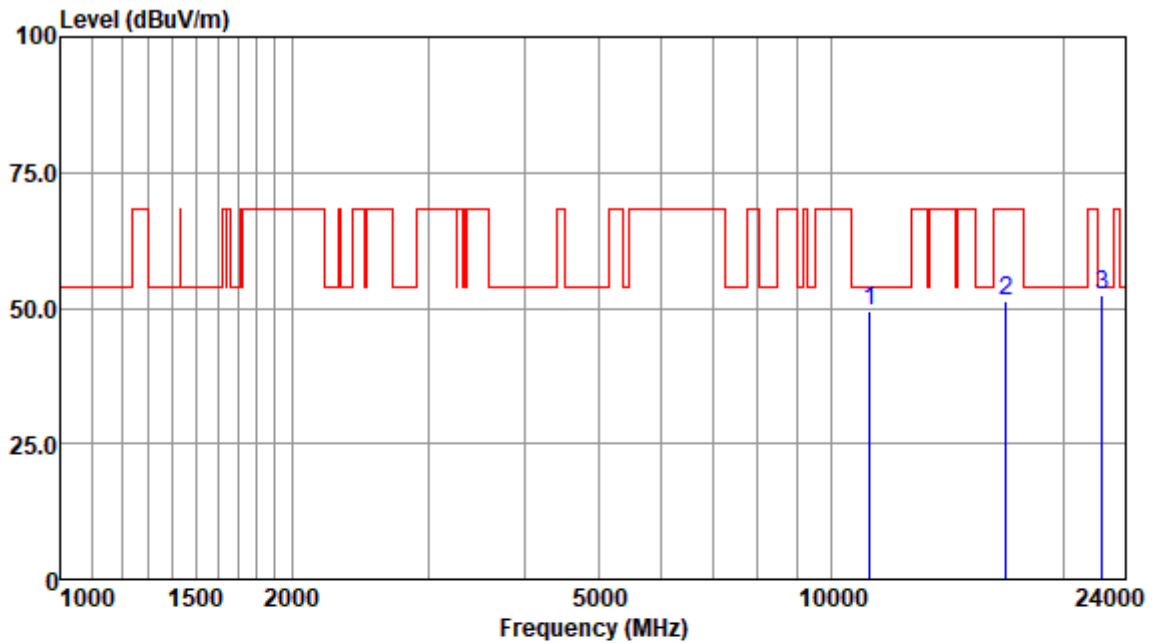
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB	
11000.00	44.09	35.42	6.89	35.08	51.32	54.00	-2.68	Peak
16500.00	42.63	38.47	9.26	36.11	54.25	68.20	-13.95	Peak
22000.00	31.44	44.07	12.56	36.11	51.96	68.20	-16.24	Peak

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



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



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	
11200.00	35.56	7.04	35.33	49.37	54.00	-4.63	Peak
16800.00	39.31	9.66	36.03	51.25	68.20	-16.95	Peak
22400.00	44.24	12.73	36.13	52.25	54.00	-1.75	Peak

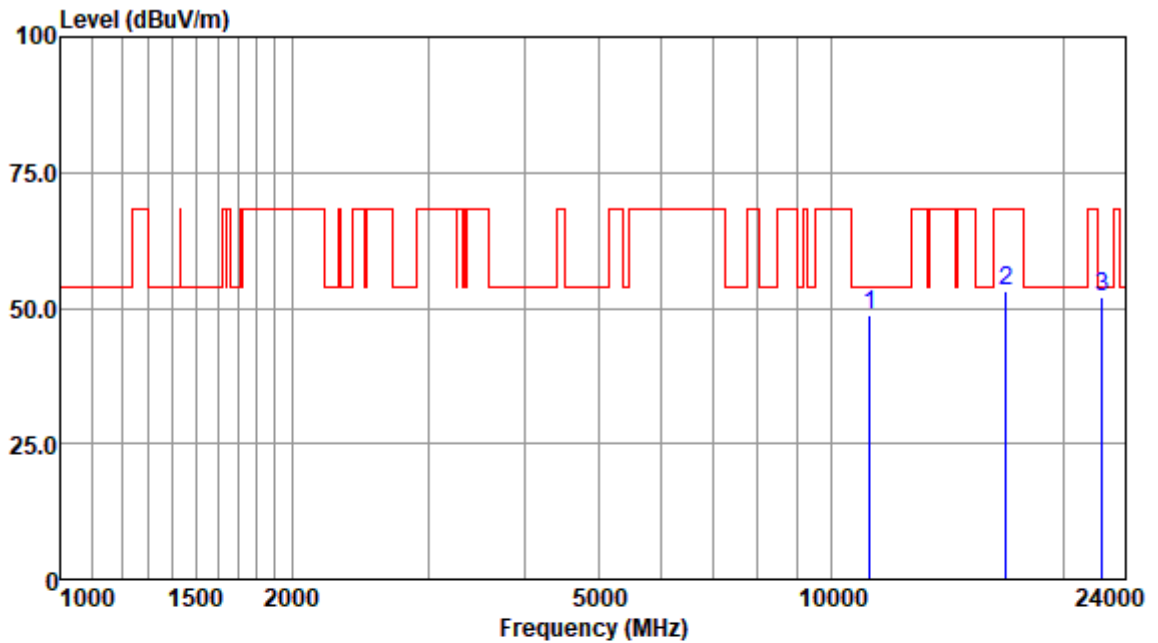
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

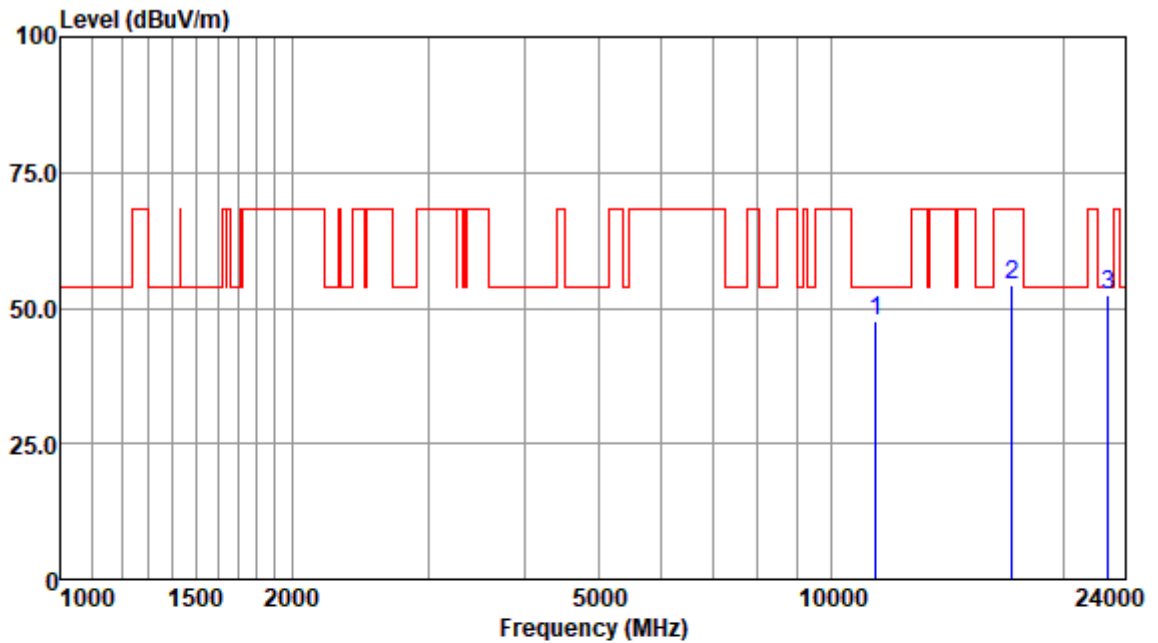
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11200.00	41.48	35.56	7.04	35.33	48.75	54.00	-5.25	Peak
16800.00	40.32	39.31	9.66	36.03	53.26	68.20	-14.94	Peak
22400.00	31.33	44.24	12.73	36.13	52.17	54.00	-1.83	Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; 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	
11400.00	35.73	7.28	35.74	47.64	54.00	-6.36	Peak
17100.00	40.12	9.99	36.03	54.26	68.20	-13.94	Peak
22800.00	44.45	12.94	36.15	52.28	54.00	-1.72	Peak

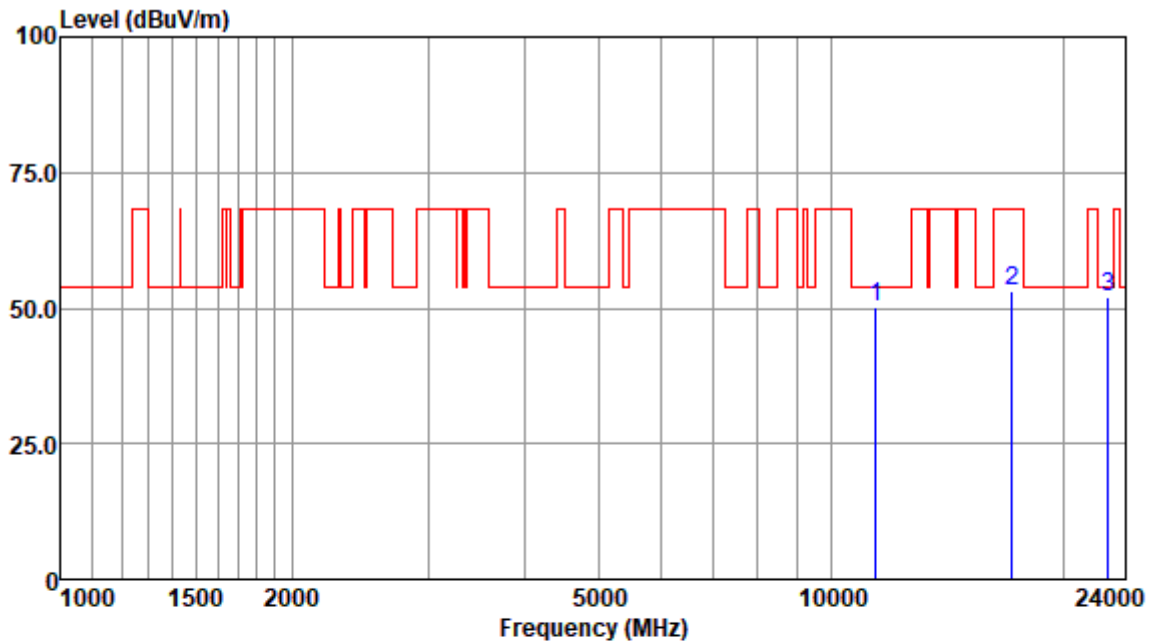
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

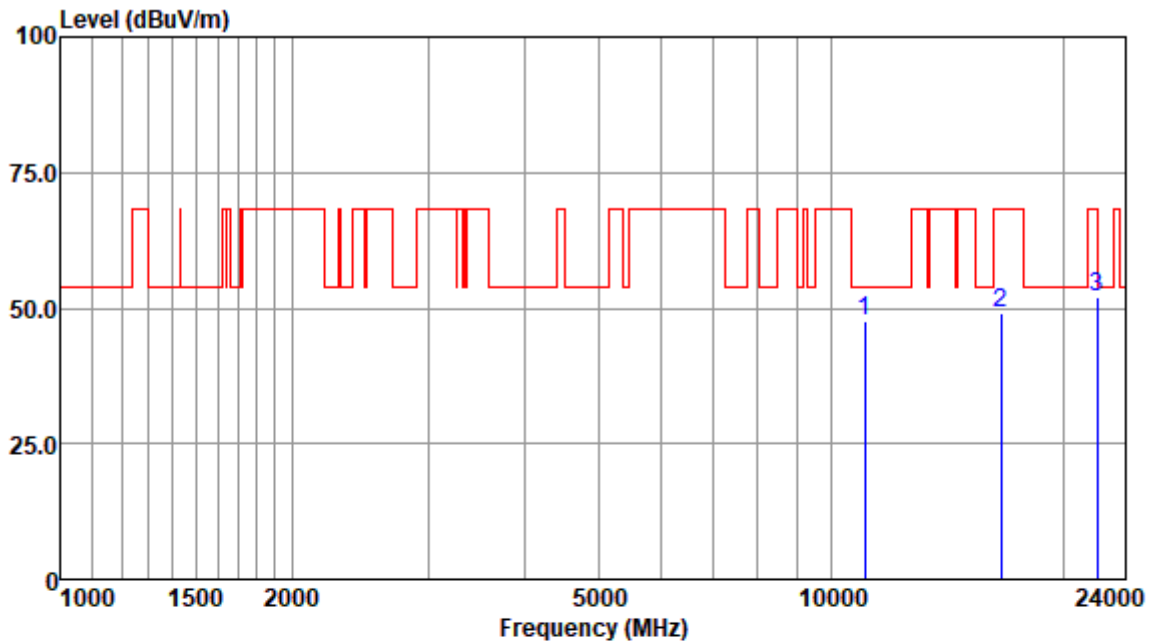
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11400.00	42.99	35.73	7.28	35.74	50.26	54.00	-3.74	Peak
17100.00	39.23	40.12	9.99	36.03	53.31	68.20	-14.89	Peak
22800.00	30.97	44.45	12.94	36.15	52.21	54.00	-1.79	Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

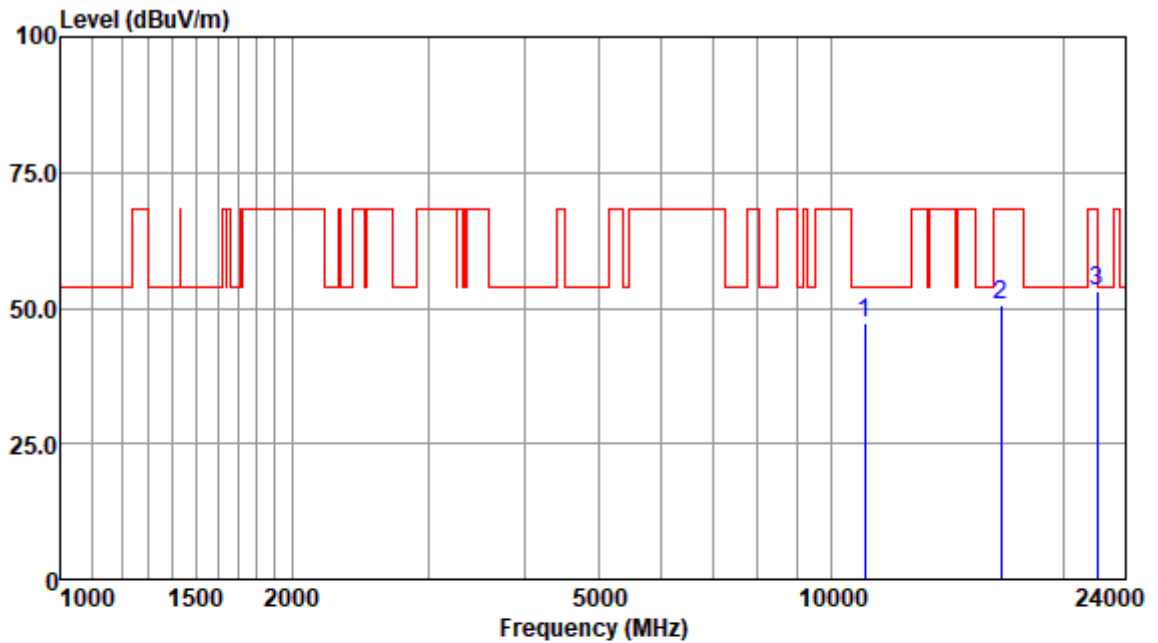
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11020.00	35.42	6.89	35.08	47.78	54.00	-6.22	Peak
16530.00	38.61	9.33	36.09	48.96	68.20	-19.24	Peak
22040.00	44.07	12.56	36.11	51.92	54.00	-2.08	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

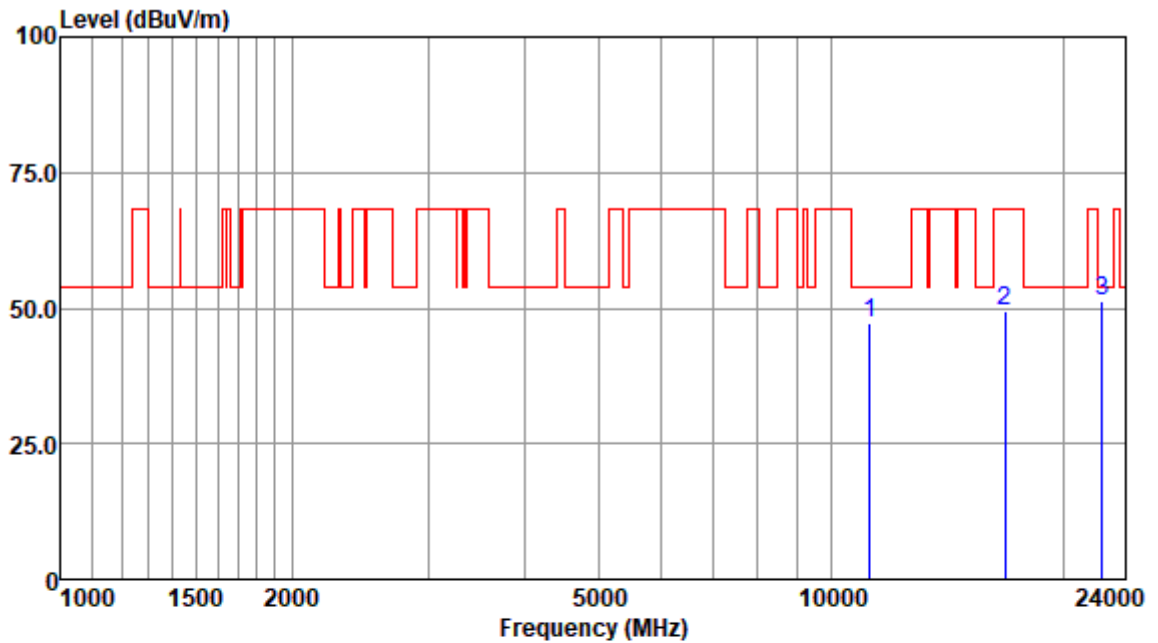
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
11020.00	40.13	35.42	6.89	35.08	47.36	54.00	-6.64		Peak
16530.00	38.53	38.61	9.33	36.09	50.38	68.20	-17.82		Peak
22040.00	32.44	44.07	12.56	36.11	52.96	54.00	-1.04		Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

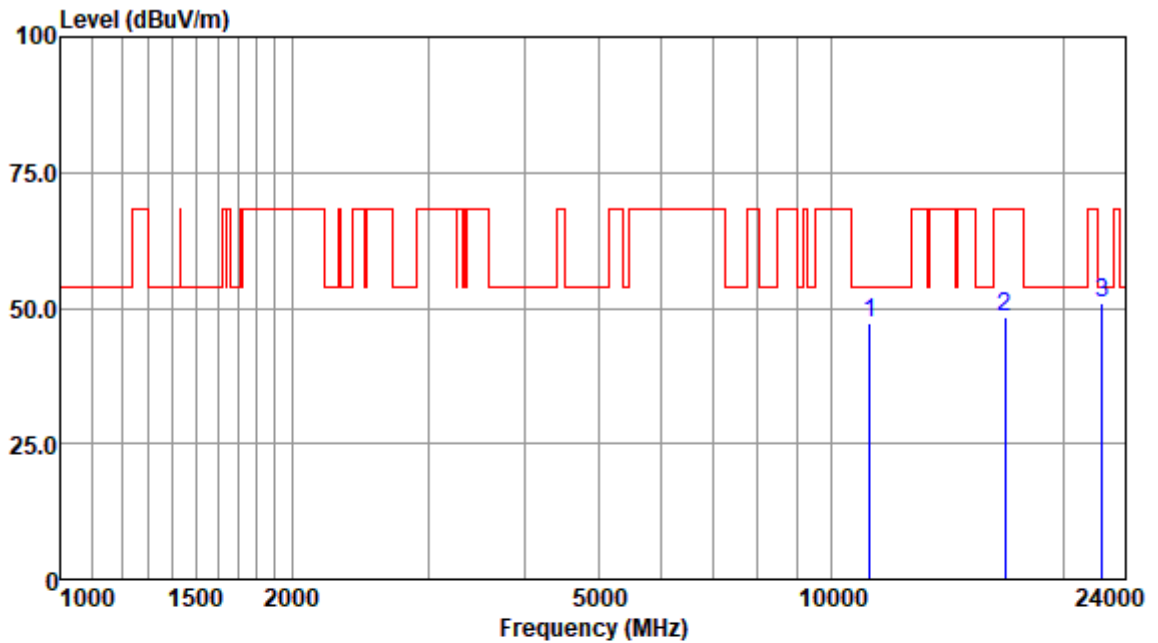
Read Freq	Antenna Cable Preamp Emission Limit Over	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11180.00	39.90	35.56	7.04	35.33	47.17	54.00	-6.83	Peak
16770.00	36.58	39.15	9.59	36.03	49.29	68.20	-18.91	Peak
22360.00	30.44	44.24	12.73	36.13	51.28	54.00	-2.72	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle



Antenna Polarity :VERTICAL

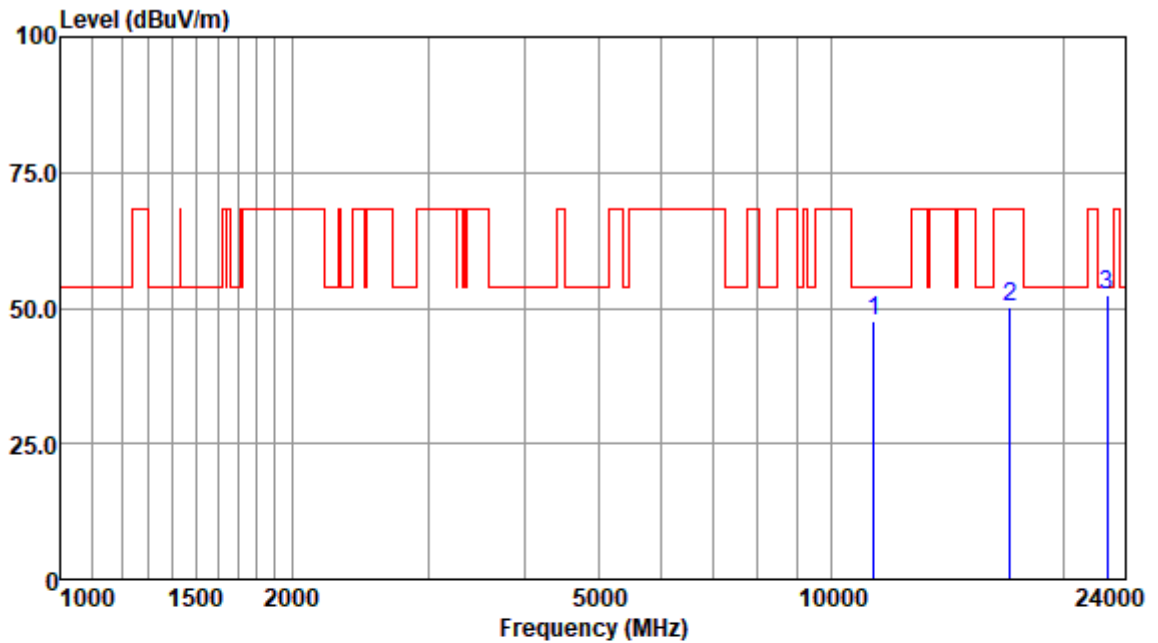
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11180.00	39.99	35.56	7.04	35.33	47.26	54.00	-6.74 Peak
16770.00	35.61	39.15	9.59	36.03	48.32	68.20	-19.88 Peak
22360.00	30.09	44.24	12.73	36.13	50.93	54.00	-3.07 Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB	
11340.00	40.42	35.67	7.20	35.60	47.69	54.00	-6.31	Peak
17010.00	36.43	39.96	9.92	36.03	50.28	68.20	-17.92	Peak
22680.00	31.35	44.38	12.87	36.14	52.46	54.00	-1.54	Peak

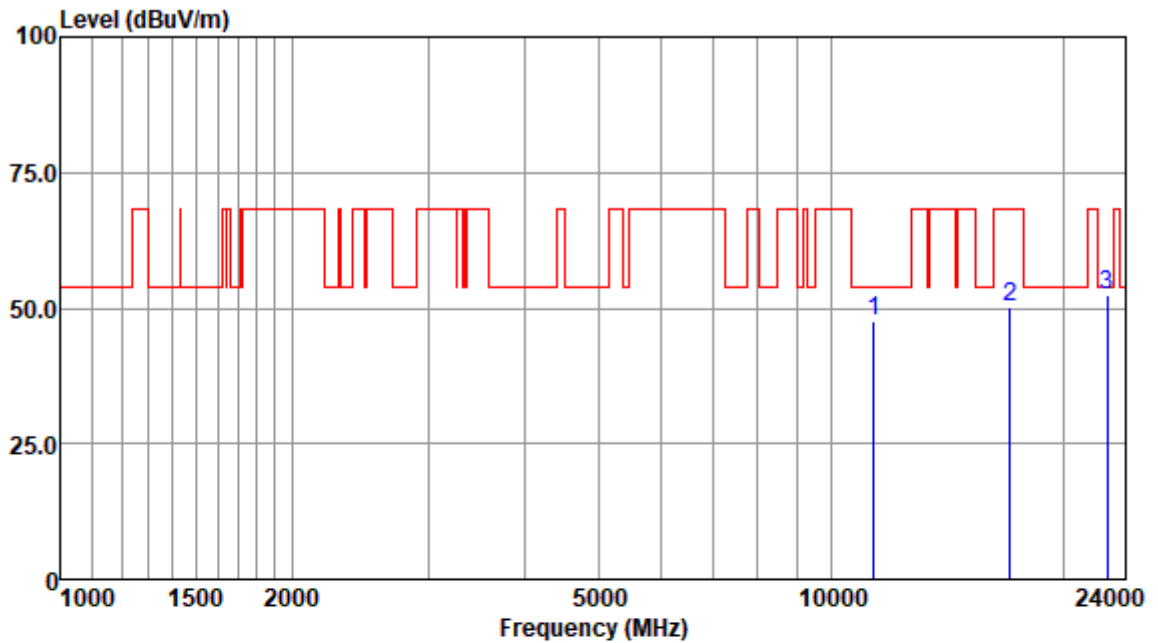
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

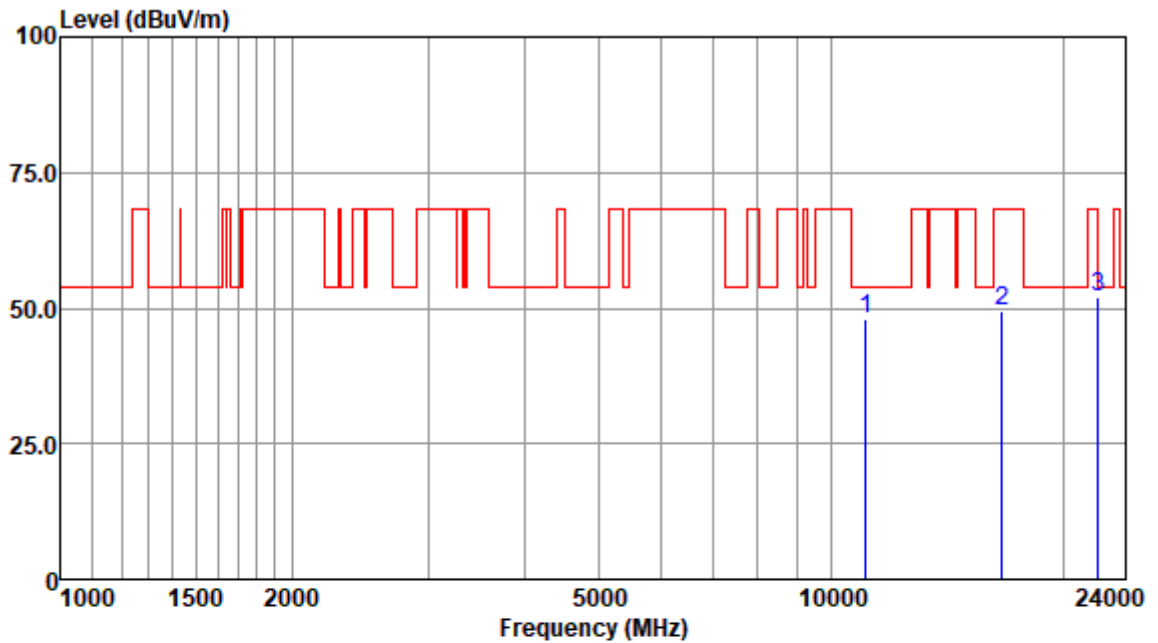
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11340.00	35.67	7.20	35.60	47.65	54.00	-6.35	Peak
17010.00	39.96	9.92	36.03	50.06	68.20	-18.14	Peak
22680.00	44.38	12.87	36.14	52.37	54.00	-1.63	Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

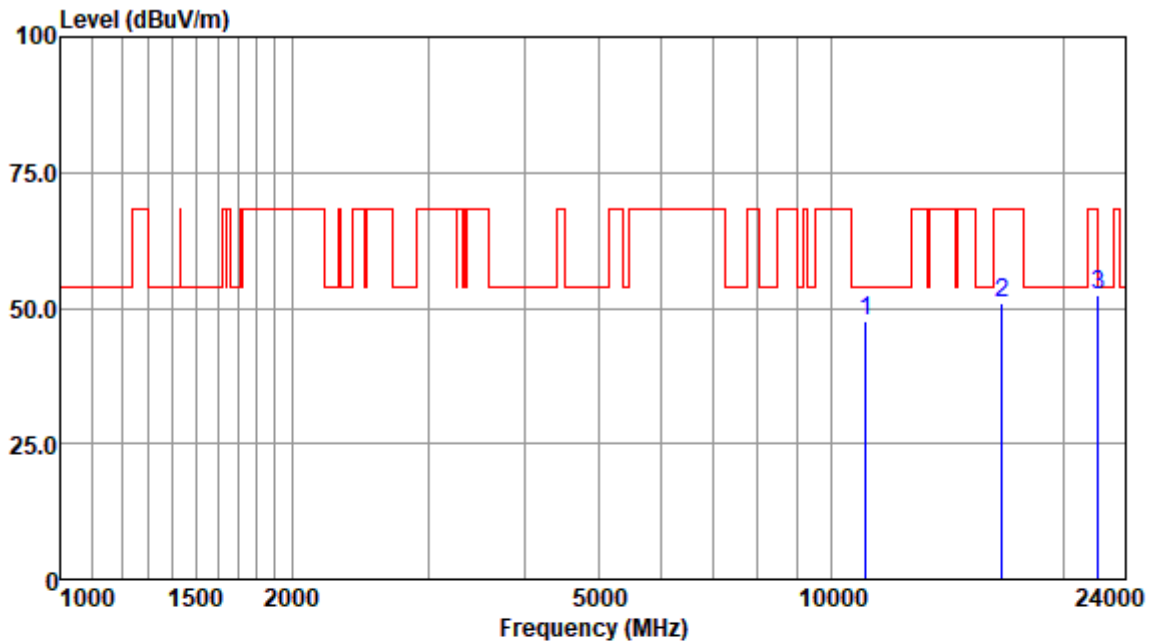
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11060.00	40.72	35.45	6.90	35.12	47.95	54.00	-6.05	Peak
16590.00	37.23	38.74	9.39	36.07	49.29	68.20	-18.91	Peak
22120.00	31.46	44.10	12.59	36.11	52.04	54.00	-1.96	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

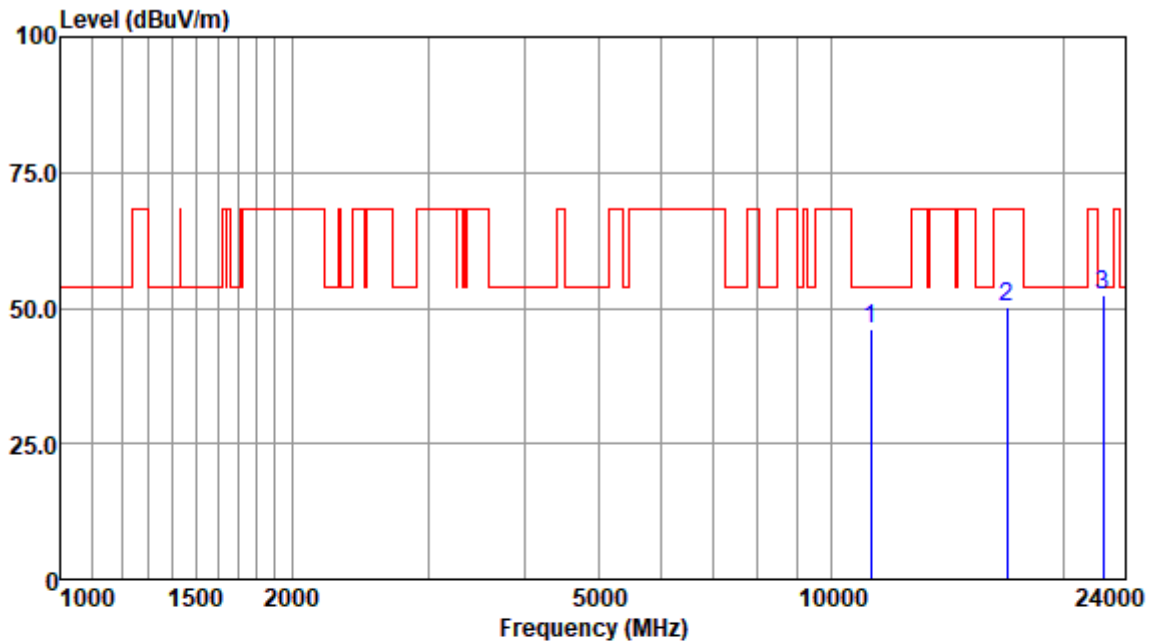
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11060.00	35.45	6.90	35.12	47.65	54.00	-6.35	Peak
16590.00	38.74	9.39	36.07	50.86	68.20	-17.34	Peak
22120.00	44.10	12.59	36.11	52.29	54.00	-1.71	Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

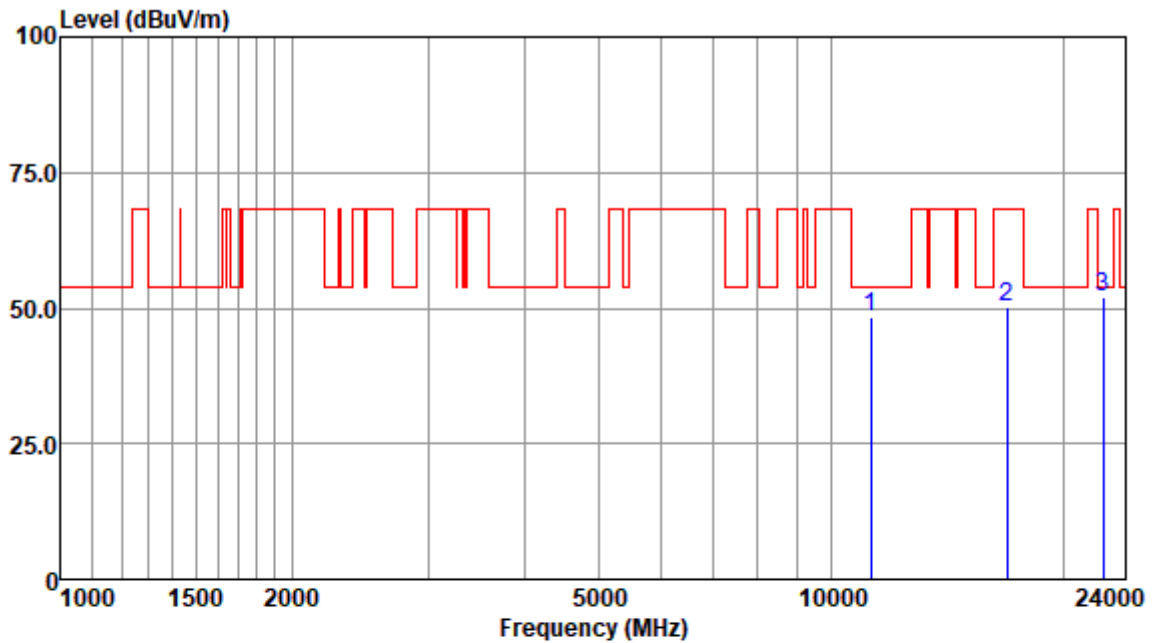
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11220.00	38.99	35.59	7.08	35.40	46.26	54.00	-7.74	Peak
16830.00	37.35	39.31	9.66	36.03	50.29	68.20	-17.91	Peak
22440.00	31.37	44.28	12.77	36.13	52.29	54.00	-1.71	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
11220.00	40.99	35.59	7.08	35.40	48.26	54.00	-5.74	Peak	
16830.00	37.32	39.31	9.66	36.03	50.26	68.20	-17.94	Peak	
22440.00	31.00	44.28	12.77	36.13	51.92	54.00	-2.08	Peak	

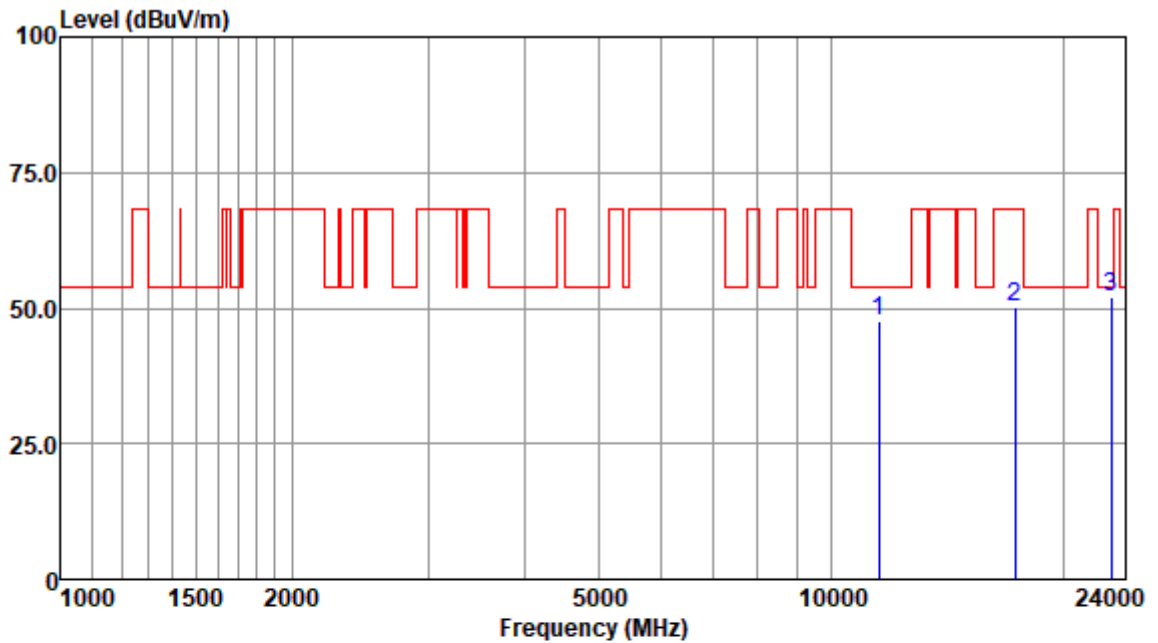
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

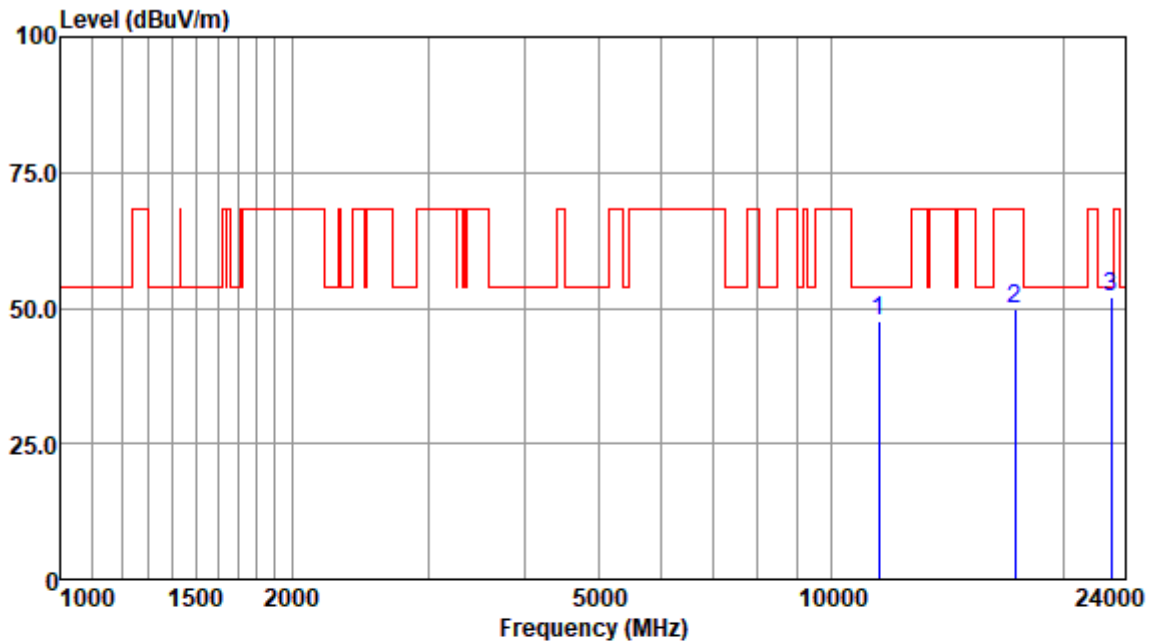
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	35.79	7.36	35.88	47.58	54.00	-6.42	Peak
17235.00	40.60	10.19	36.14	50.29	68.20	-17.91	Peak
22980.00	44.52	13.01	36.15	52.02	54.00	-1.98	Peak

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



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



Antenna Polarity :VERTICAL

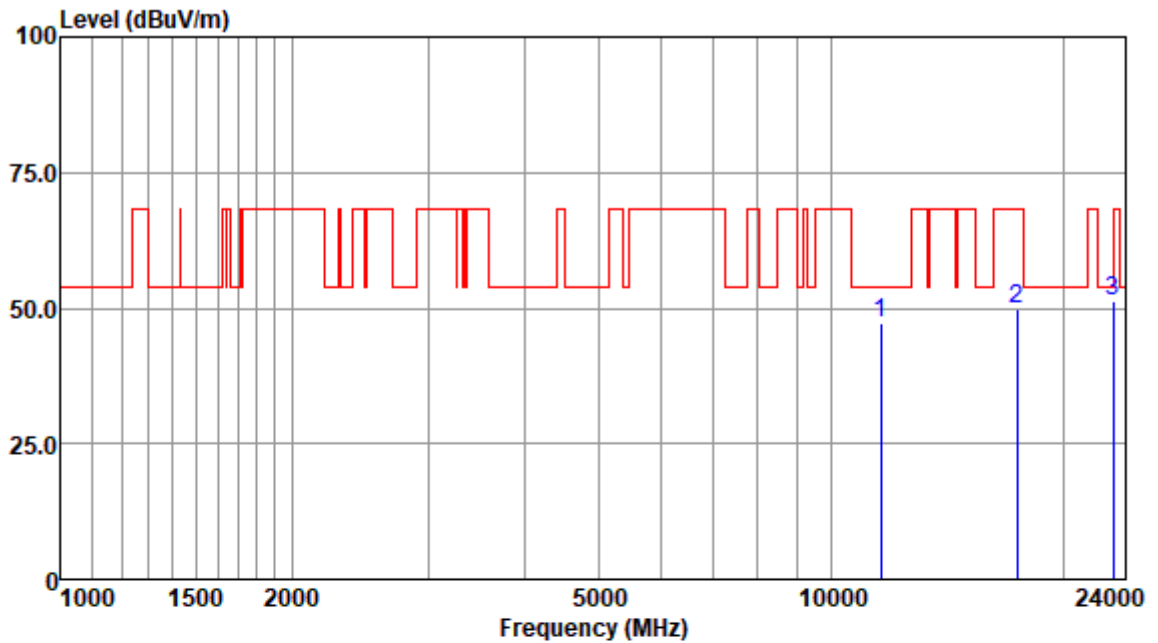
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	35.79	7.36	35.88	47.75	54.00	-6.25	Peak
17235.00	40.60	10.19	36.14	49.96	68.20	-18.24	Peak
22980.00	44.52	13.01	36.15	52.06	54.00	-1.94	Peak

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



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



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	
11570.00	35.78	7.44	36.02	47.29	54.00	-6.71	Peak
17355.00	40.95	10.32	36.25	49.82	68.20	-18.38	Peak
23140.00	44.62	13.12	36.16	51.29	68.20	-16.91	Peak

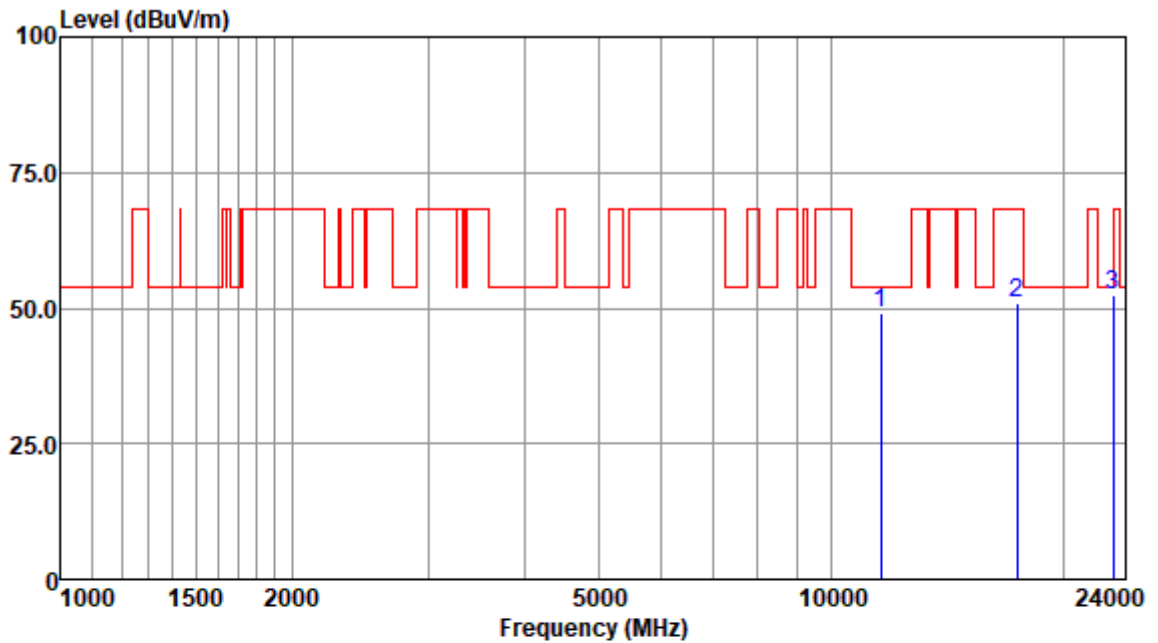
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

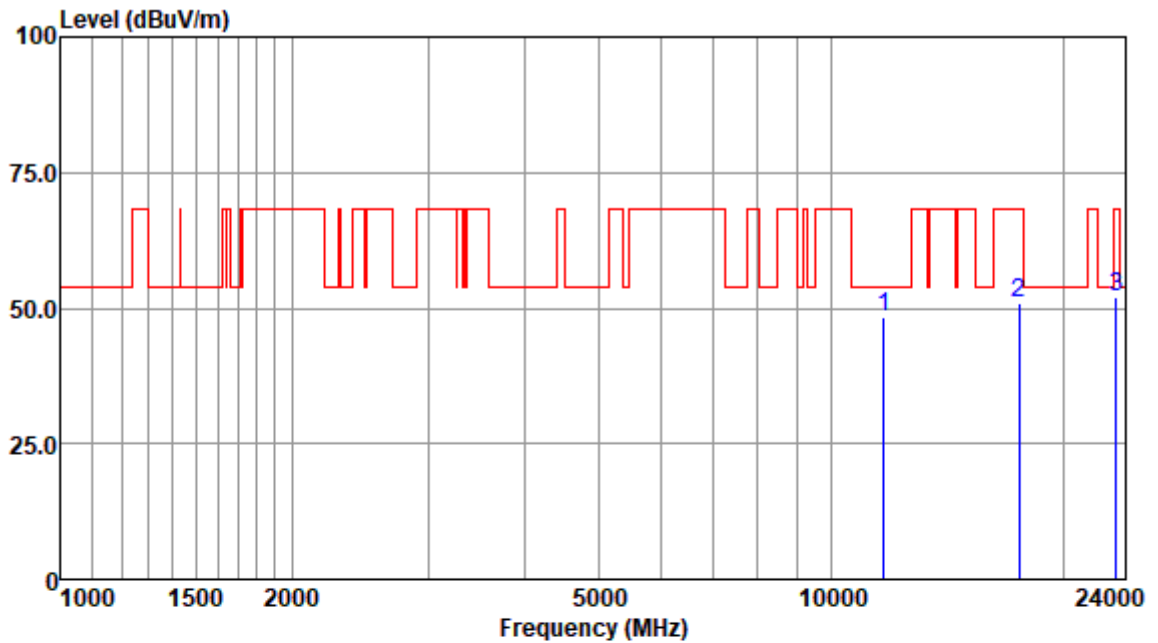
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.00	41.75	35.78	7.44	36.02	48.95	54.00	-5.05	Peak
17355.00	35.87	40.95	10.32	36.25	50.89	68.20	-17.31	Peak
23140.00	31.00	44.62	13.12	36.16	52.58	68.20	-15.62	Peak

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



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



Antenna Polarity :HORIZONTAL

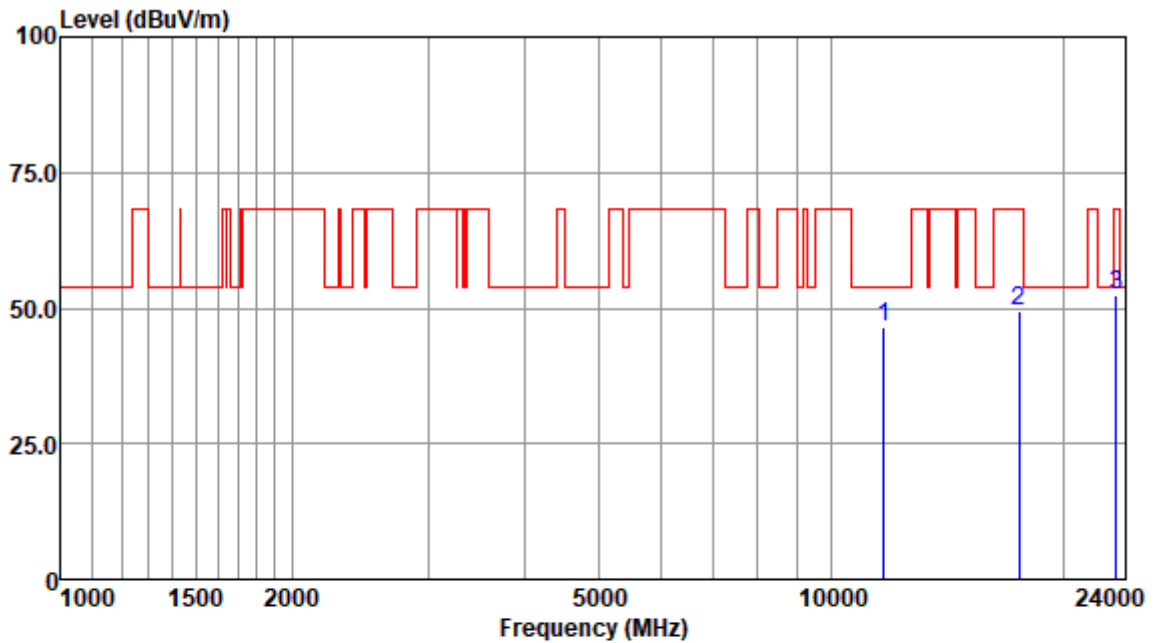
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	35.77	7.56	36.23	48.28	54.00	-5.72	Peak
17475.00	41.30	10.45	36.37	50.89	68.20	-17.31	Peak
23300.00	44.69	13.19	36.17	51.95	68.20	-16.25	Peak

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
11650.00	39.35	35.77	7.56	36.23	46.45	54.00	-7.55		Peak
17475.00	33.94	41.30	10.45	36.37	49.32	68.20	-18.88		Peak
23300.00	30.54	44.69	13.19	36.17	52.25	68.20	-15.95		Peak

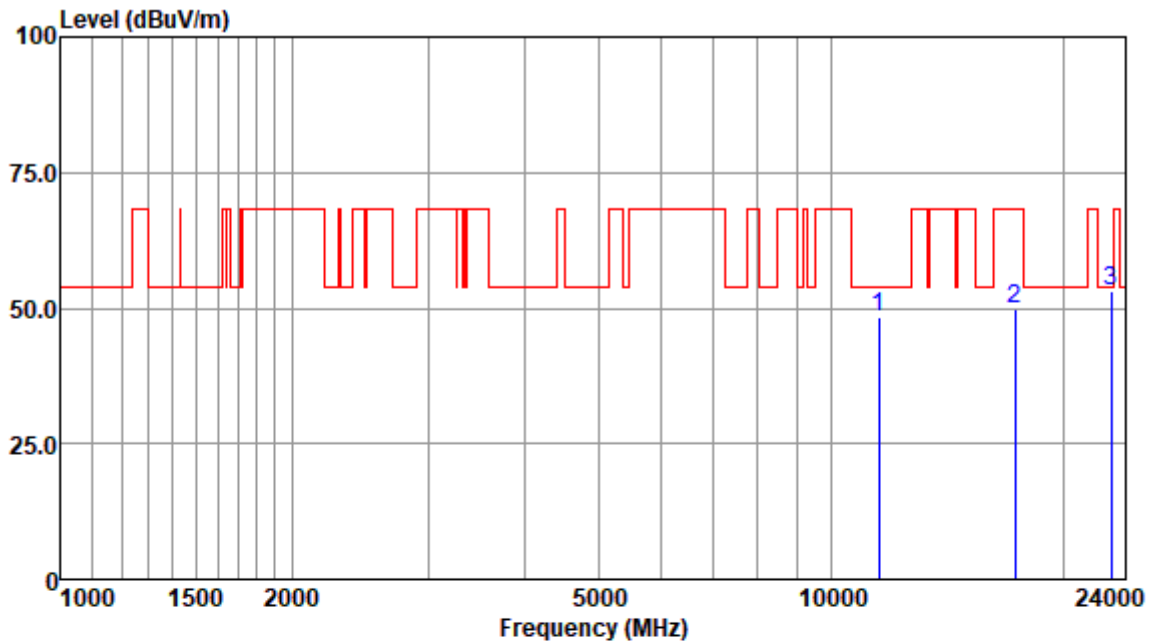
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

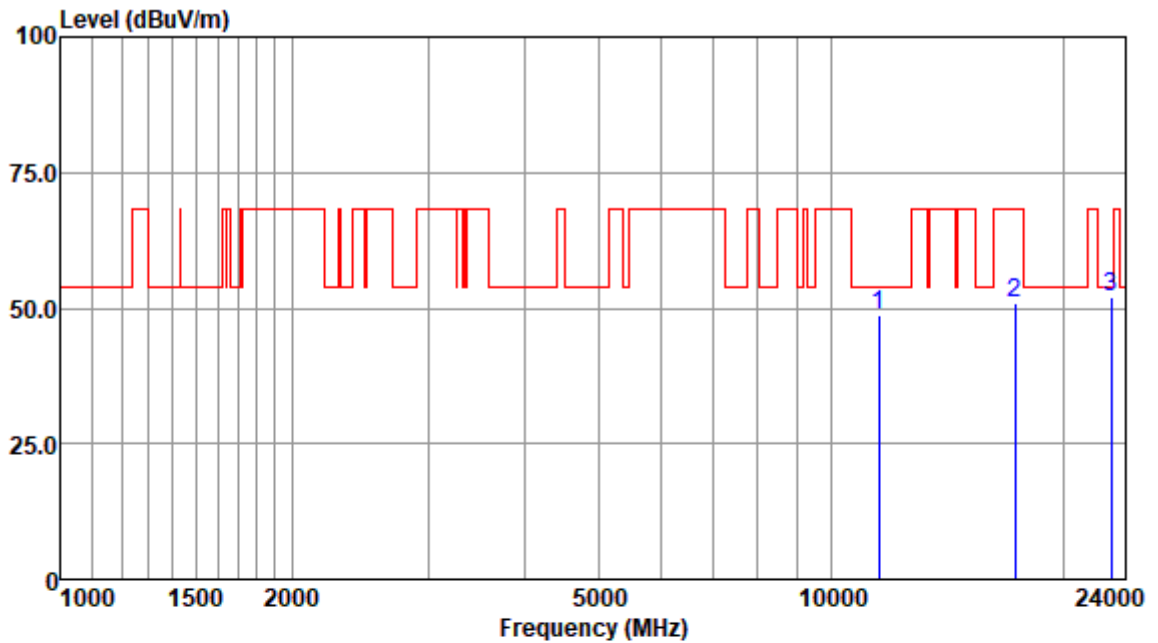
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11490.00	40.91	35.79	7.36	35.88	48.18	54.00	-5.82	Peak
17235.00	35.33	40.60	10.19	36.14	49.98	68.20	-18.22	Peak
22980.00	31.61	44.52	13.01	36.15	52.99	54.00	-1.01	Peak

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
dBUv	dB/m	dB	dBUv/m	dBUv/m	dB	
11490.00	35.79	7.36	35.88	48.77	54.00	-5.23 Peak
17235.00	40.60	10.19	36.14	50.78	68.20	-17.42 Peak
22980.00	44.52	13.01	36.15	52.06	54.00	-1.94 Peak

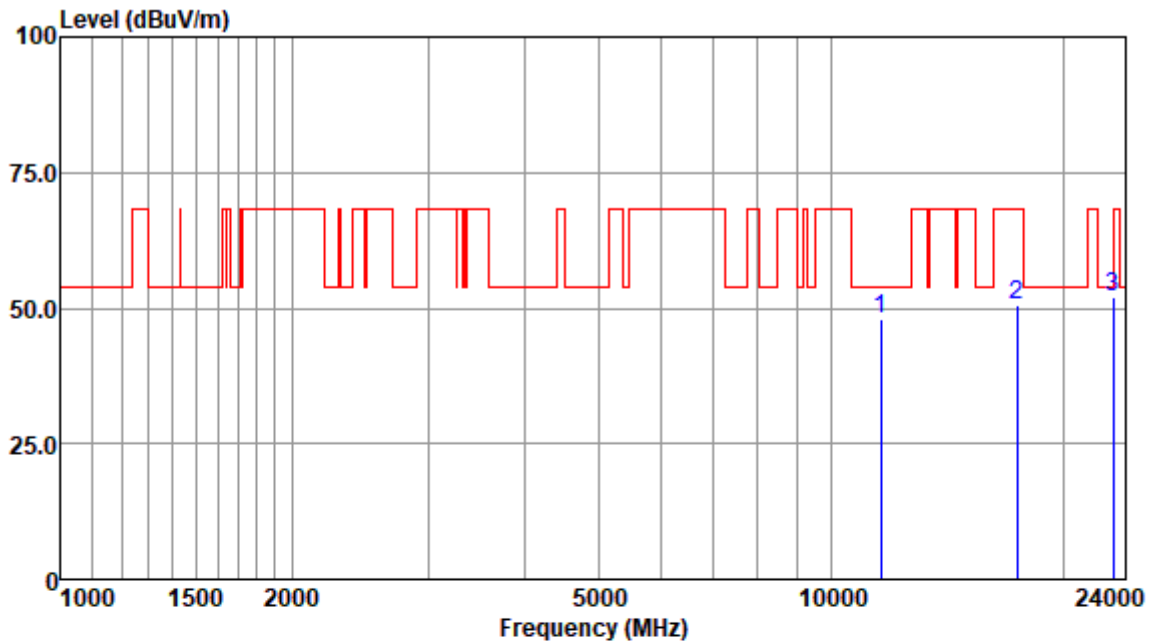
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

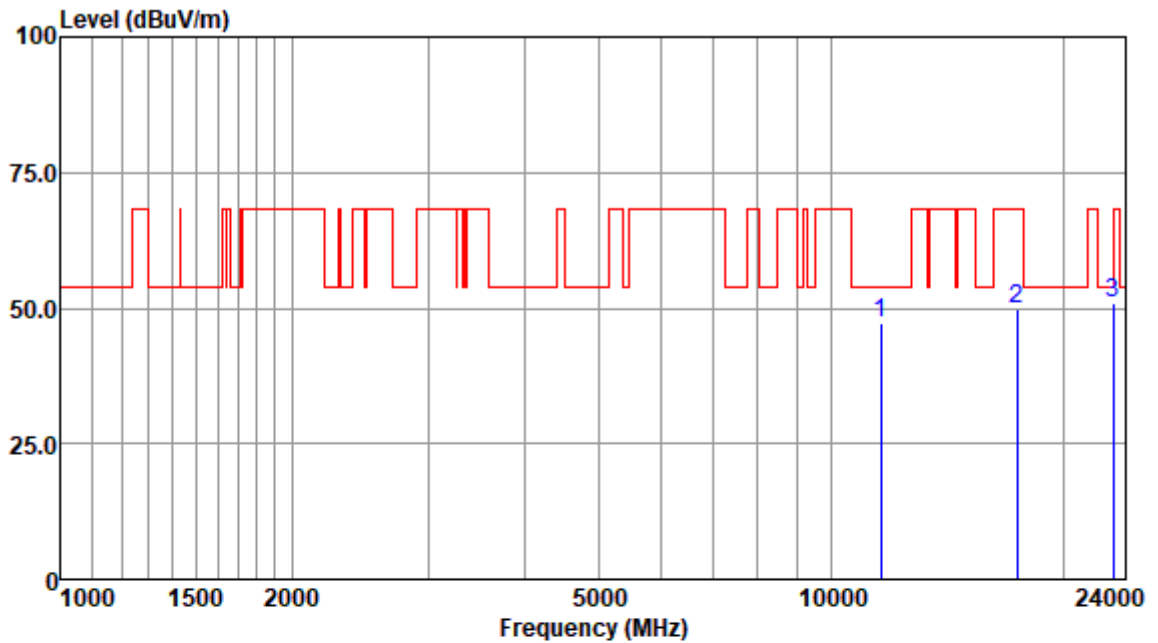
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11570.00	35.78	7.44	36.02	47.98	54.00	-6.02	Peak
17355.00	40.95	10.32	36.25	50.38	68.20	-17.82	Peak
23140.00	44.62	13.12	36.16	51.96	68.20	-16.24	Peak

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



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



Antenna Polarity :VERTICAL

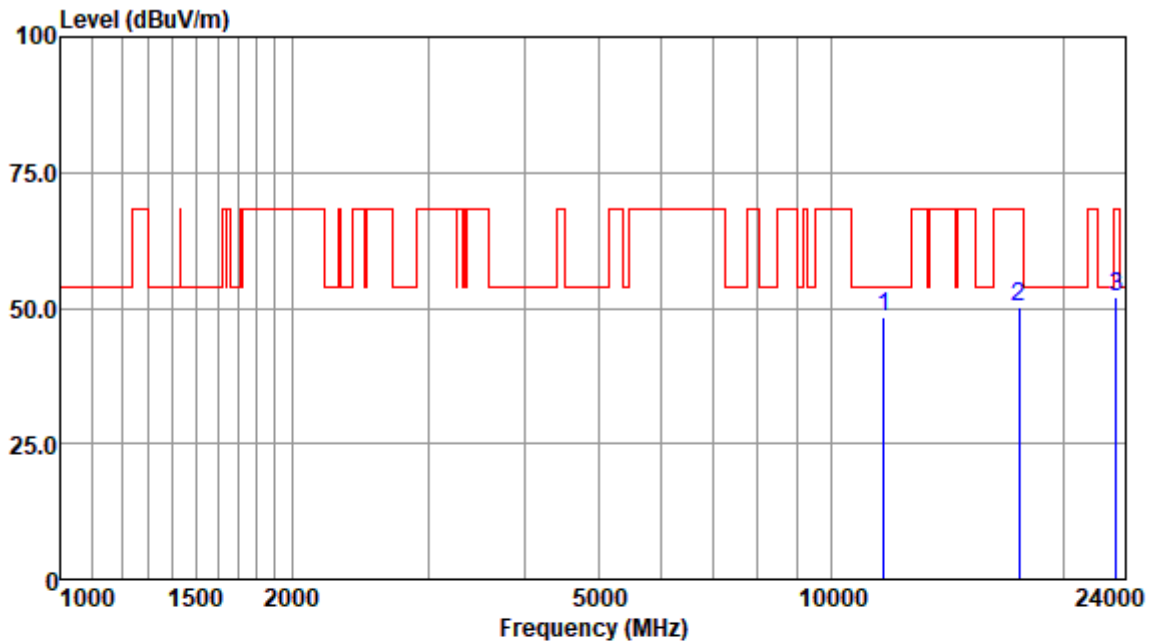
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11570.00	40.08	35.78	7.44	36.02	47.28	54.00	-6.72	Peak
17355.00	34.87	40.95	10.32	36.25	49.89	68.20	-18.31	Peak
23140.00	29.41	44.62	13.12	36.16	50.99	68.20	-17.21	Peak

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



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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
11650.00	41.38	35.77	7.56	36.23	48.48	54.00	-5.52 Peak
17475.00	34.91	41.30	10.45	36.37	50.29	68.20	-17.91 Peak
23300.00	30.28	44.69	13.19	36.17	51.99	68.20	-16.21 Peak

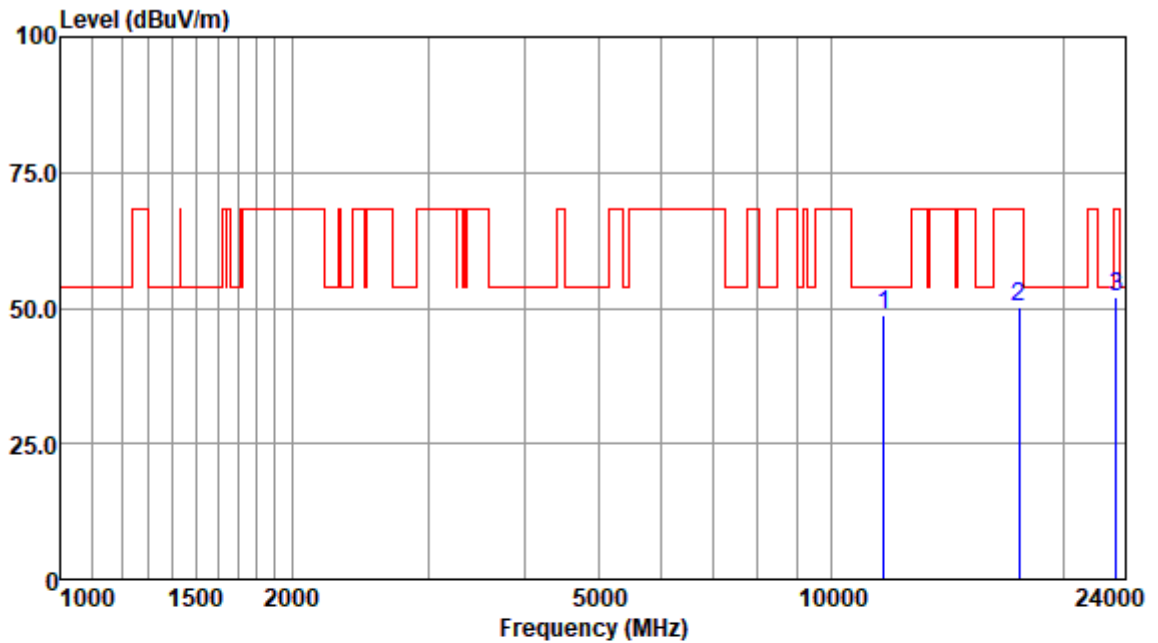
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

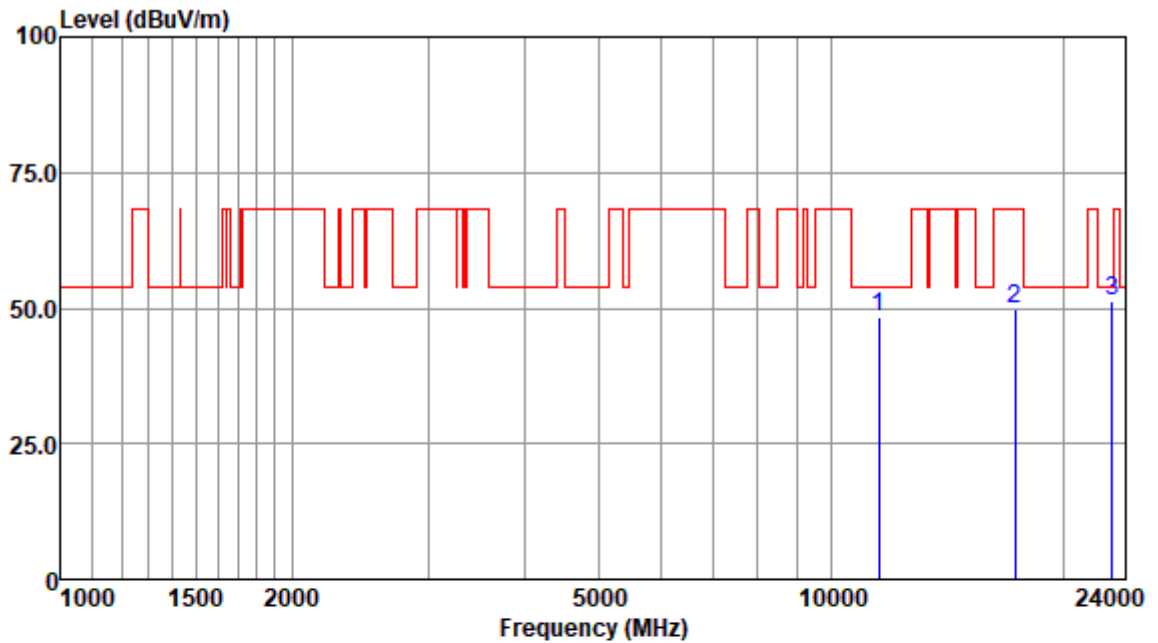
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11650.00	35.77	7.56	36.23	48.55	54.00	-5.45	Peak
17475.00	41.30	10.45	36.37	50.29	68.20	-17.91	Peak
23300.00	44.69	13.19	36.17	52.08	68.20	-16.12	Peak

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



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



Antenna Polarity :HORIZONTAL

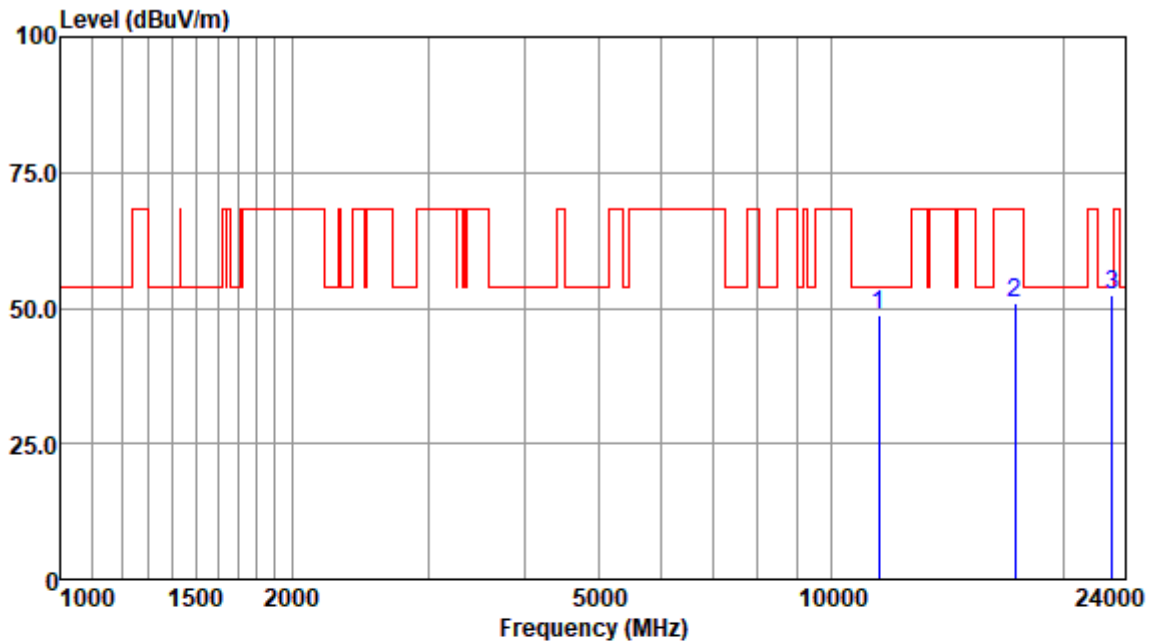
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	35.78	7.40	35.95	48.27	54.00	-5.73	Peak
17265.00	40.60	10.19	36.14	49.98	68.20	-18.22	Peak
23020.00	44.55	13.05	36.16	51.38	54.00	-2.62	Peak

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



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



Antenna Polarity :VERTICAL

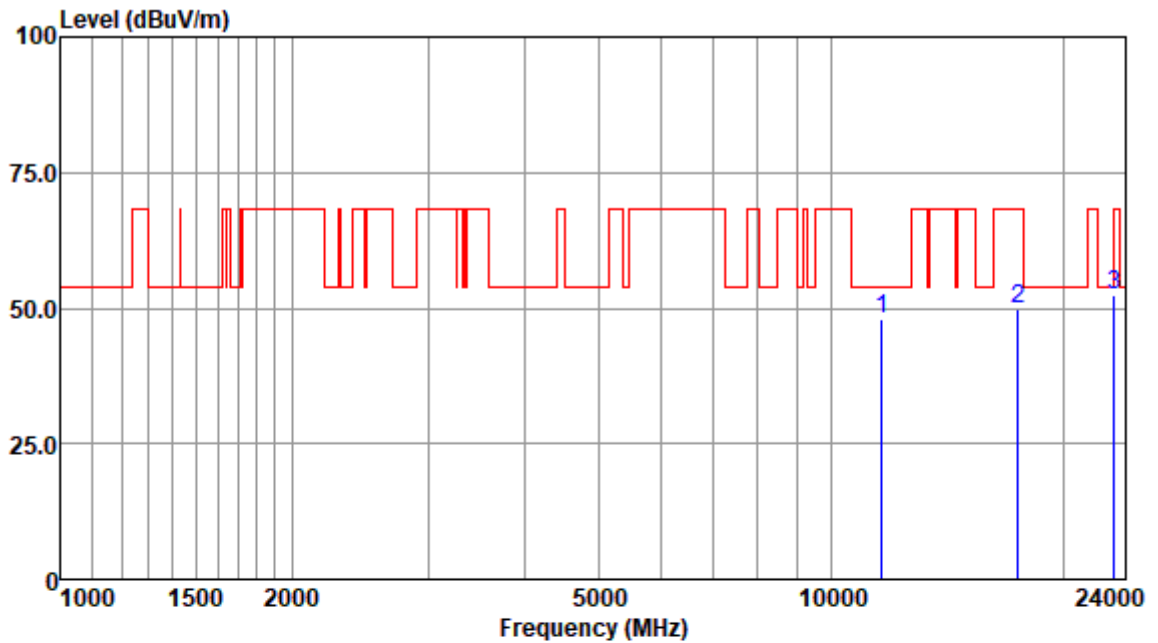
Read Freq	Antenna Cable Preamp Emission Limit Over	Factor Loss Factor Level Line	Factor Level	Limit	Over	Remark		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11510.00	41.66	35.78	7.40	35.95	48.89	54.00	-5.11	Peak
17265.00	36.17	40.60	10.19	36.14	50.82	68.20	-17.38	Peak
23020.00	31.10	44.55	13.05	36.16	52.54	54.00	-1.46	Peak

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



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



Antenna Polarity :HORIZONTAL

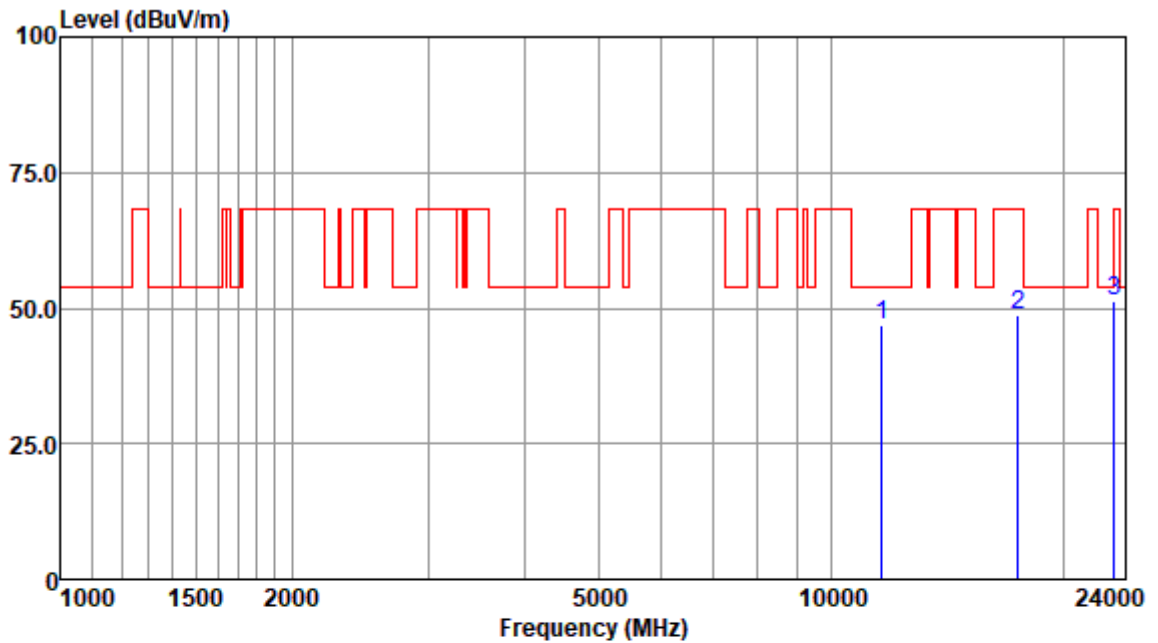
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11590.00	35.78	7.48	36.09	47.89	54.00	-6.11	Peak
17385.00	41.12	10.39	36.31	49.68	68.20	-18.52	Peak
23180.00	44.62	13.12	36.16	52.45	68.20	-15.75	Peak

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



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



Antenna Polarity :VERTICAL

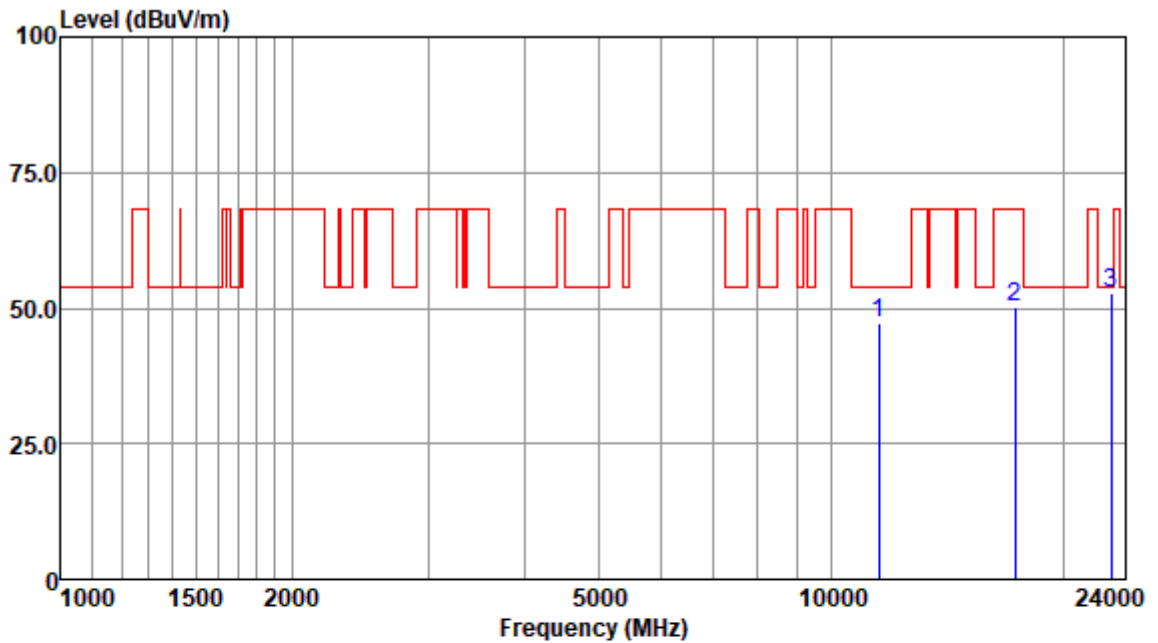
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11590.00	39.60	35.78	7.48	36.09	46.77	54.00	-7.23	Peak
17385.00	33.45	41.12	10.39	36.31	48.65	68.20	-19.55	Peak
23180.00	29.59	44.62	13.12	36.16	51.17	68.20	-17.03	Peak

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



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



Antenna Polarity :HORIZONTAL

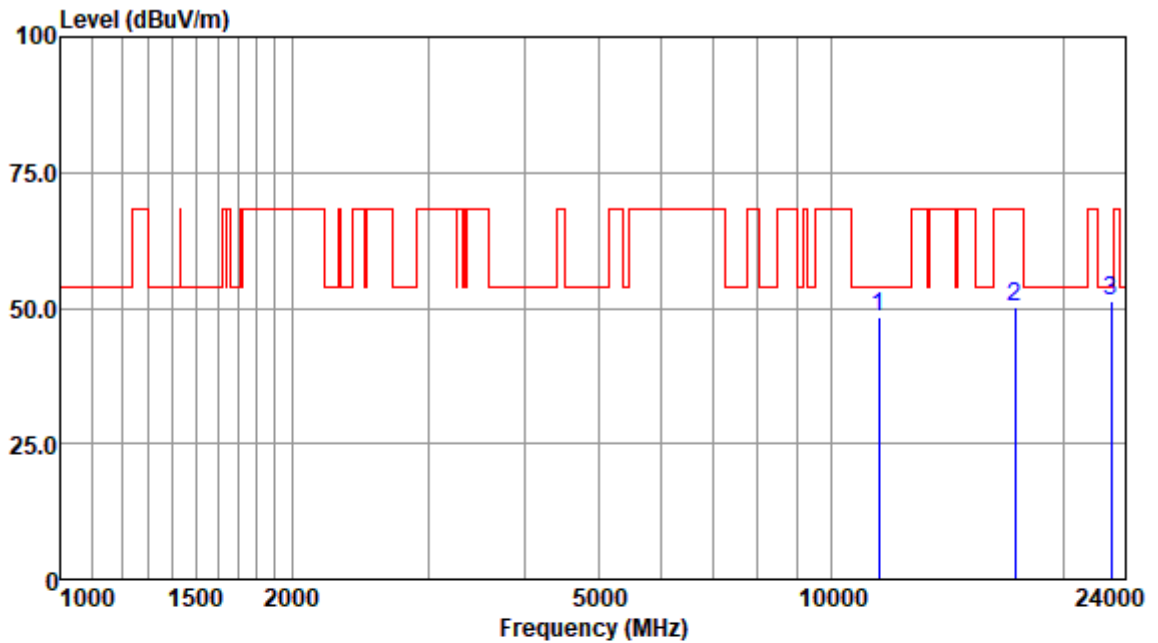
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	35.79	7.36	35.88	47.29	54.00	-6.71	Peak
17235.00	40.60	10.19	36.14	50.28	68.20	-17.92	Peak
22980.00	44.52	13.01	36.15	52.64	54.00	-1.36	Peak

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



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



Antenna Polarity :VERTICAL

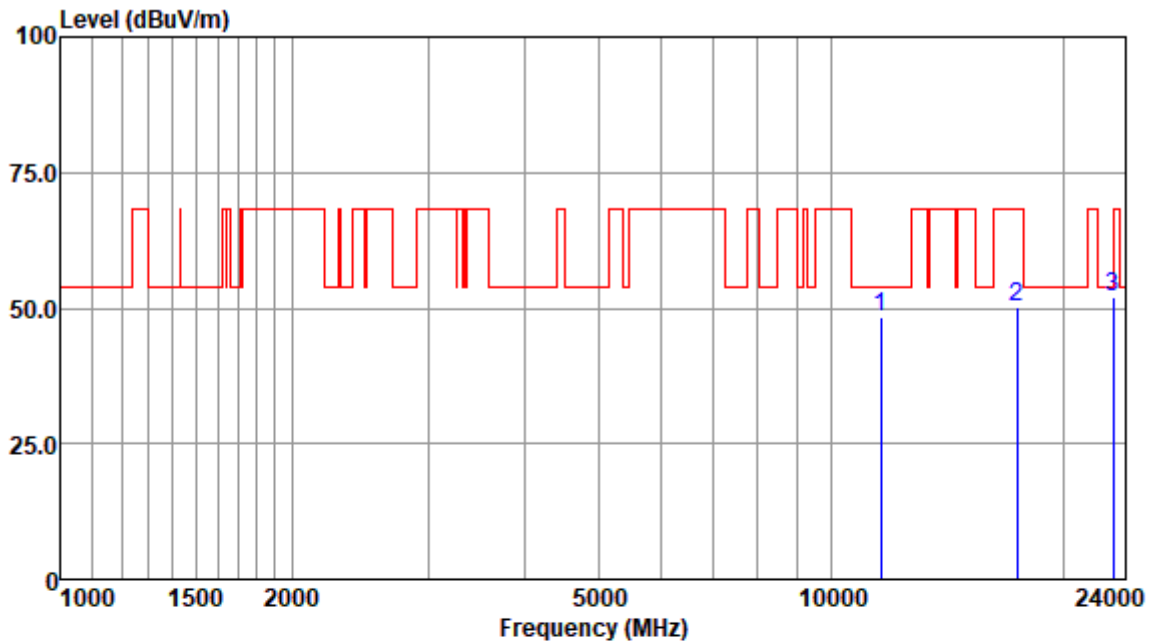
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11490.00	35.79	7.36	35.88	48.24	54.00	-5.76	Peak
17235.00	40.60	10.19	36.14	50.29	68.20	-17.91	Peak
22980.00	44.52	13.01	36.15	51.23	54.00	-2.77	Peak

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



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



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	
11570.00	35.78	7.44	36.02	48.42	54.00	-5.58	Peak
17355.00	40.95	10.32	36.25	50.27	68.20	-17.93	Peak
23140.00	44.62	13.12	36.16	52.06	68.20	-16.14	Peak

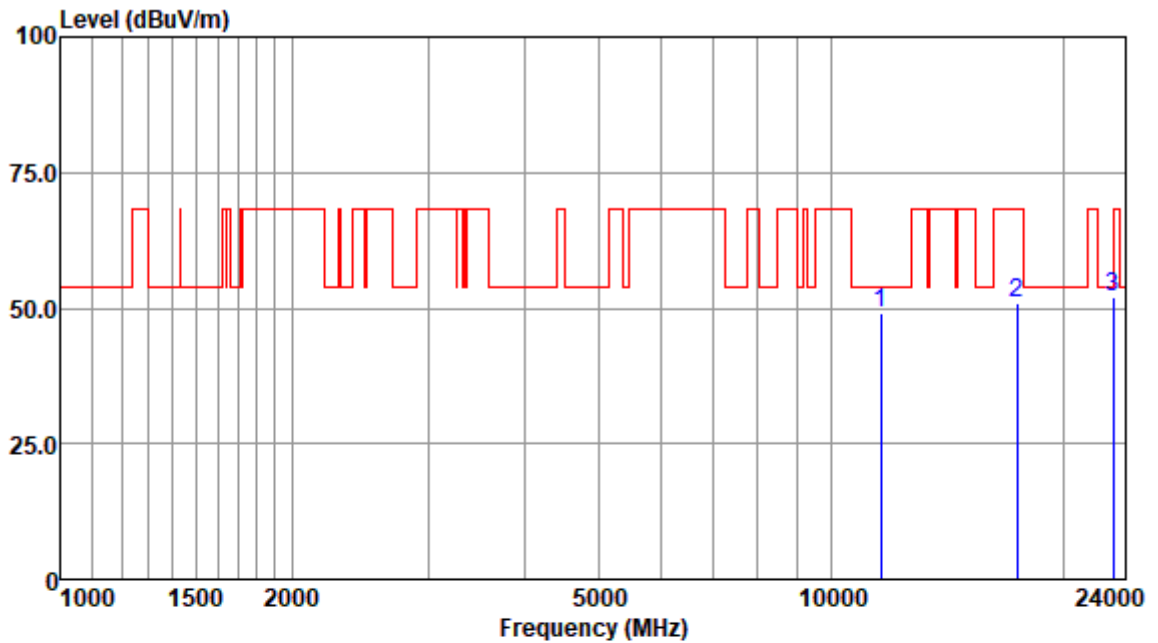
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

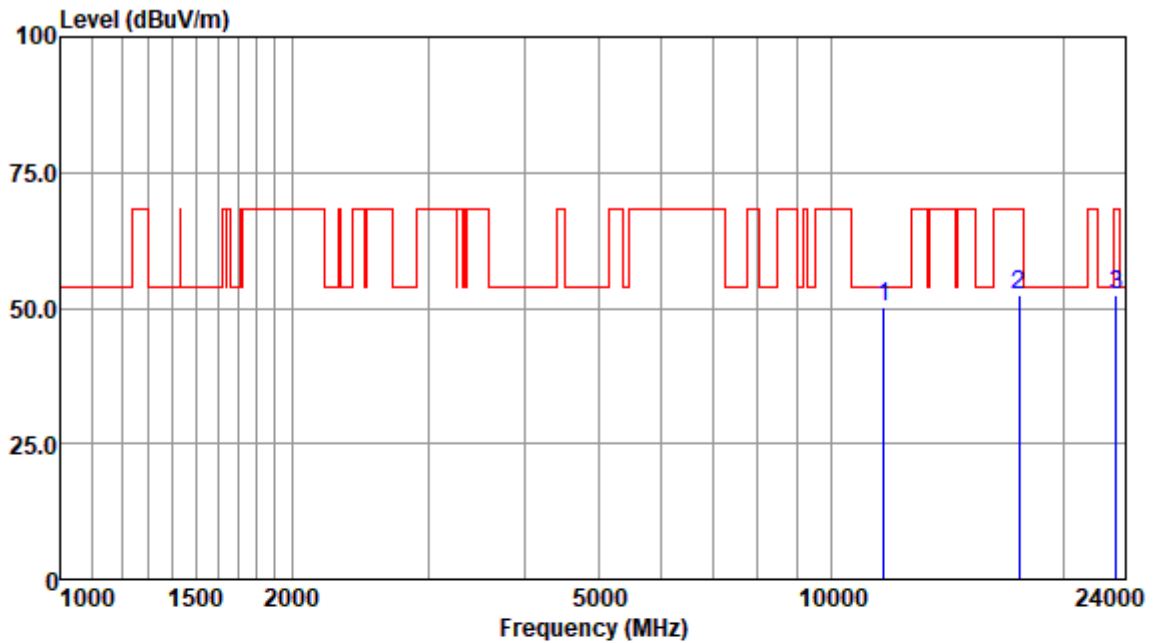
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dB	
11570.00	35.78	7.44	36.02	49.25	54.00	-4.75 Peak
17355.00	40.95	10.32	36.25	50.98	68.20	-17.22 Peak
23140.00	44.62	13.12	36.16	51.88	68.20	-16.32 Peak

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



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



Antenna Polarity :HORIZONTAL

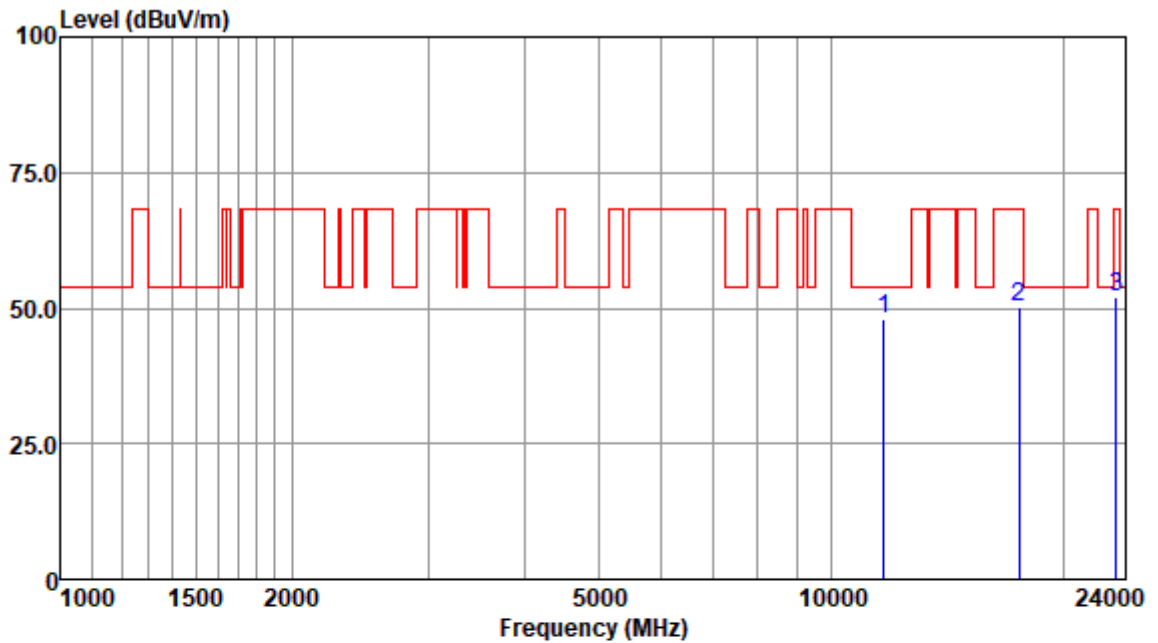
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
11650.00	43.09	35.77	7.56	36.23	50.19	54.00	-3.81		Peak
17475.00	36.88	41.30	10.45	36.37	52.26	68.20	-15.94		Peak
23300.00	30.71	44.69	13.19	36.17	52.42	68.20	-15.78		Peak

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



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



Antenna Polarity :VERTICAL

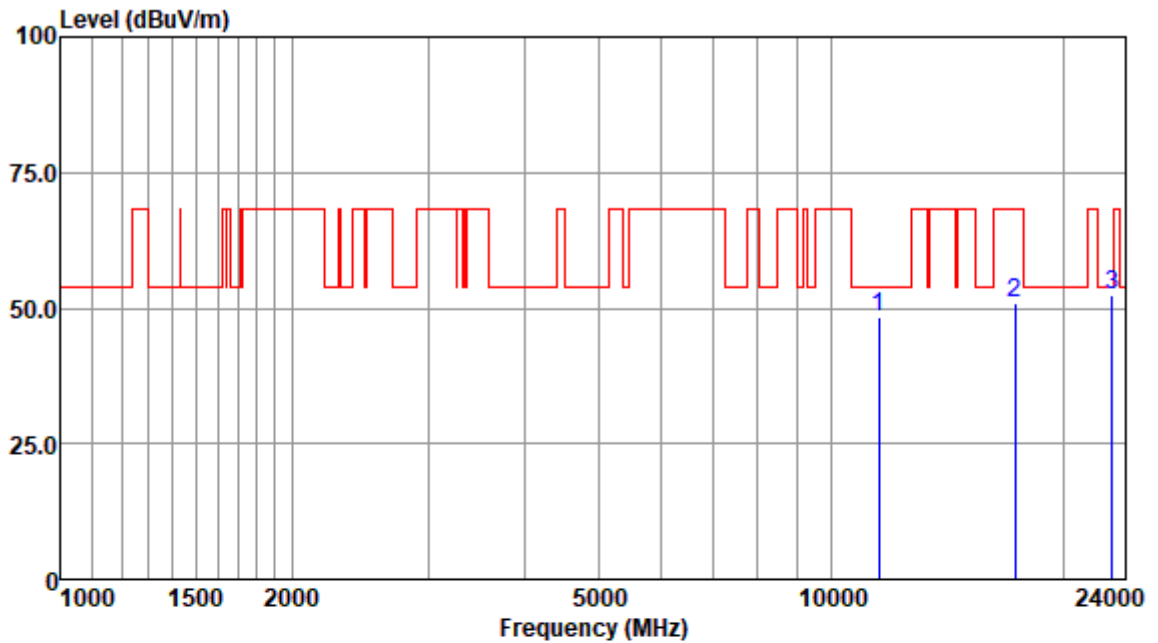
Read Freq	Antenna Cable Preamp Emission Limit Over							
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
11650.00	40.69	35.77	7.56	36.23	47.79	54.00	-6.21	Peak
17475.00	34.73	41.30	10.45	36.37	50.11	68.20	-18.09	Peak
23300.00	30.46	44.69	13.19	36.17	52.17	68.20	-16.03	Peak

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



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

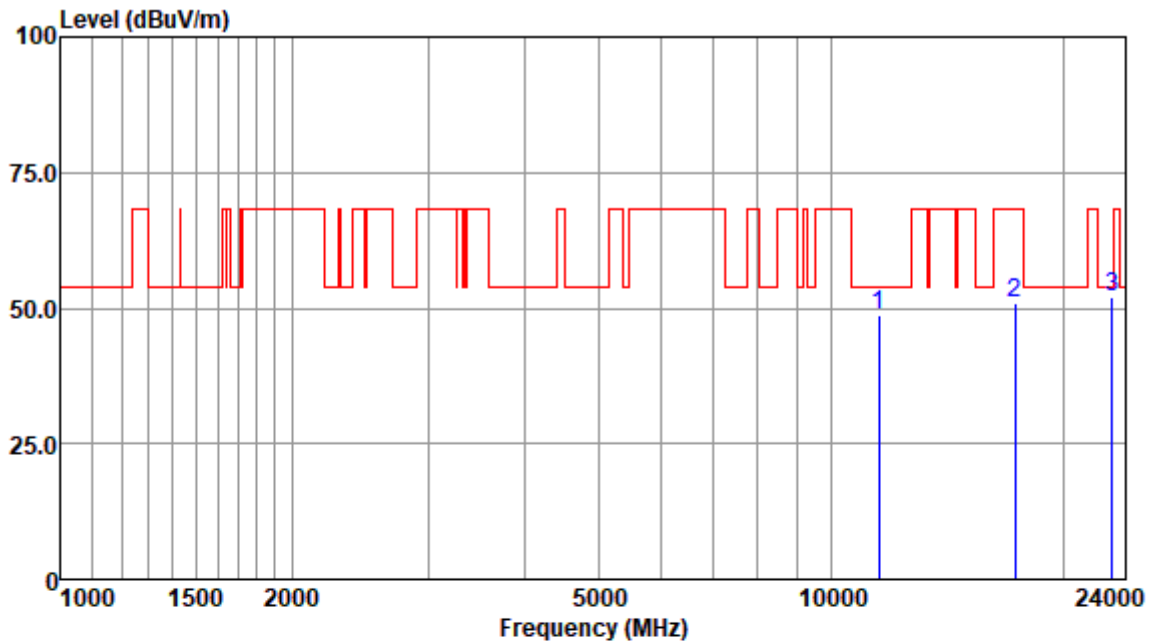
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	35.78	7.40	35.95	48.28	54.00	-5.72	Peak
17265.00	40.60	10.19	36.14	50.82	68.20	-17.38	Peak
23020.00	44.55	13.05	36.16	52.29	54.00	-1.71	Peak

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



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

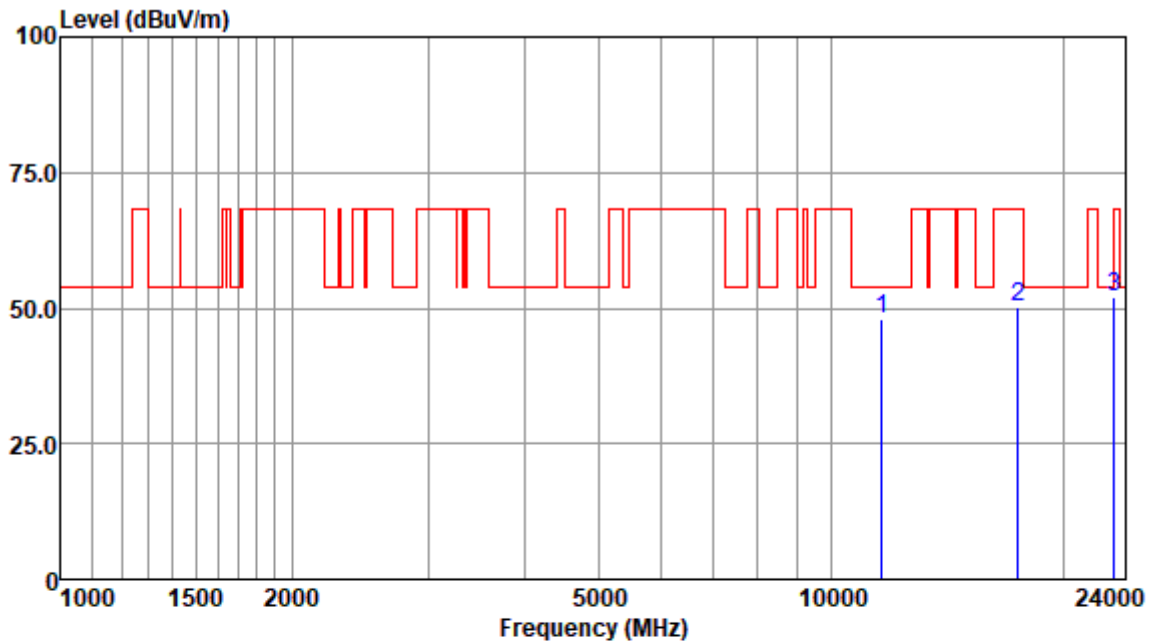
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
11510.00	35.78	7.40	35.95	48.65	54.00	-5.35	Peak
17265.00	40.60	10.19	36.14	50.77	68.20	-17.43	Peak
23020.00	44.55	13.05	36.16	52.05	54.00	-1.95	Peak

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



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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 dBuV/m dBuV/m dB							
11590.00	40.82 35.78 7.48 36.09 47.99 54.00 -6.01 Peak							
17385.00	35.08 41.12 10.39 36.31 50.28 68.20 -17.92 Peak							
23180.00	30.50 44.62 13.12 36.16 52.08 68.20 -16.12 Peak							

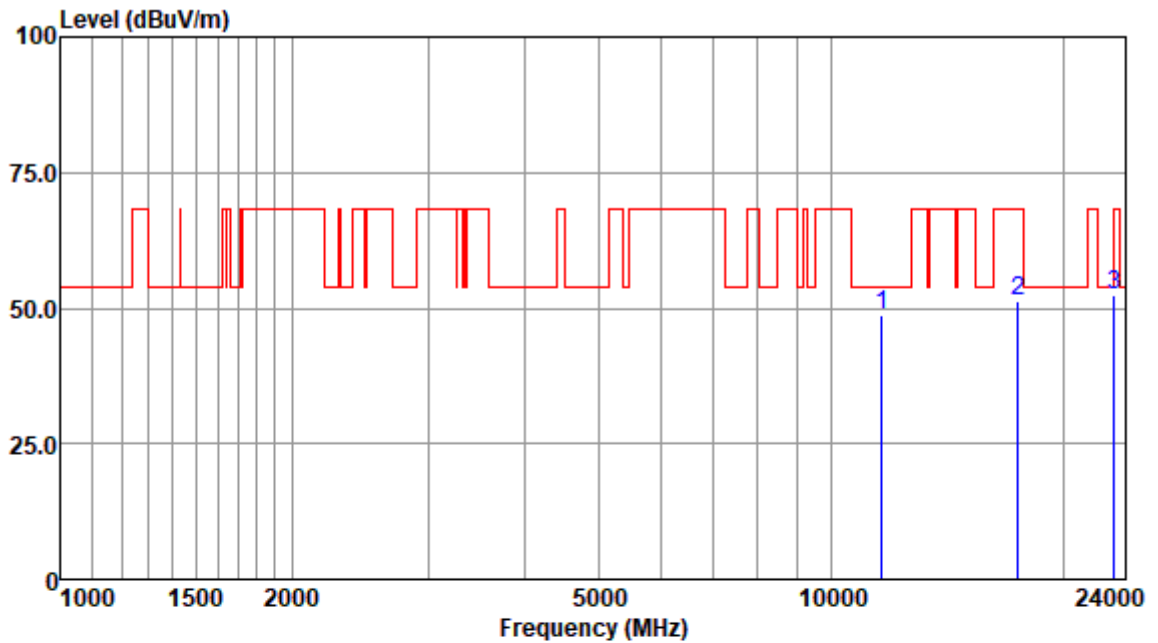
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

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	
11590.00	41.71	35.78	7.48	36.09	48.88	54.00	-5.12	Peak	
17385.00	36.01	41.12	10.39	36.31	51.21	68.20	-16.99	Peak	
23180.00	30.64	44.62	13.12	36.16	52.22	68.20	-15.98	Peak	

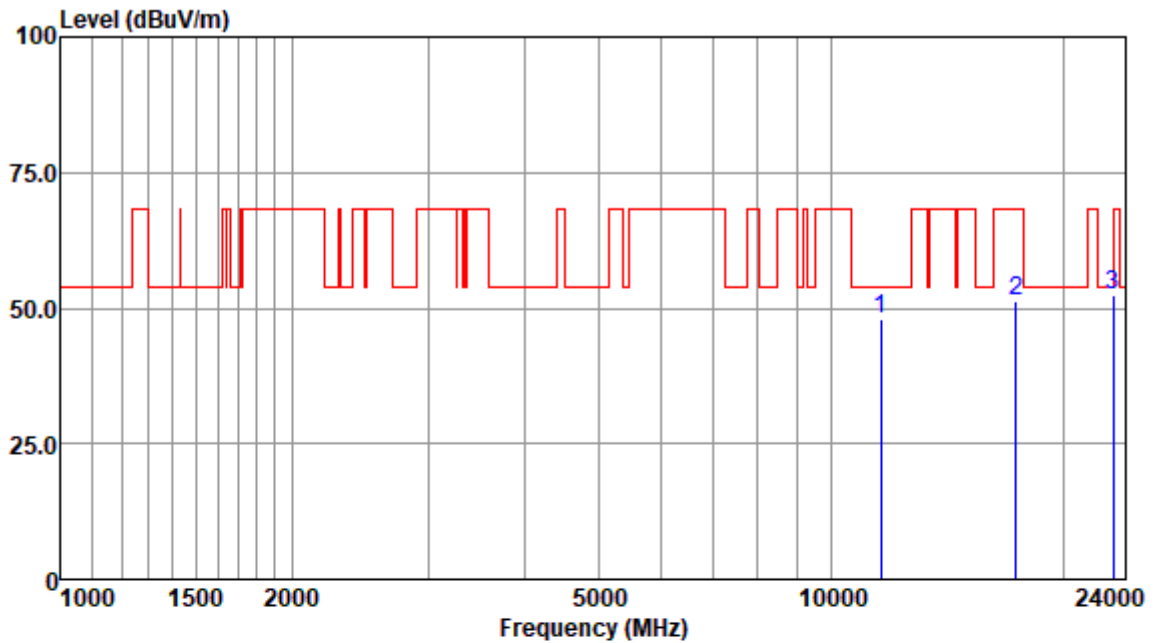
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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	
11550.00	35.78	7.44	36.02	47.89	54.00	-6.11	Peak
17325.00	40.77	10.25	36.20	51.28	68.20	-16.92	Peak
23100.00	44.59	13.08	36.16	52.55	54.00	-1.45	Peak

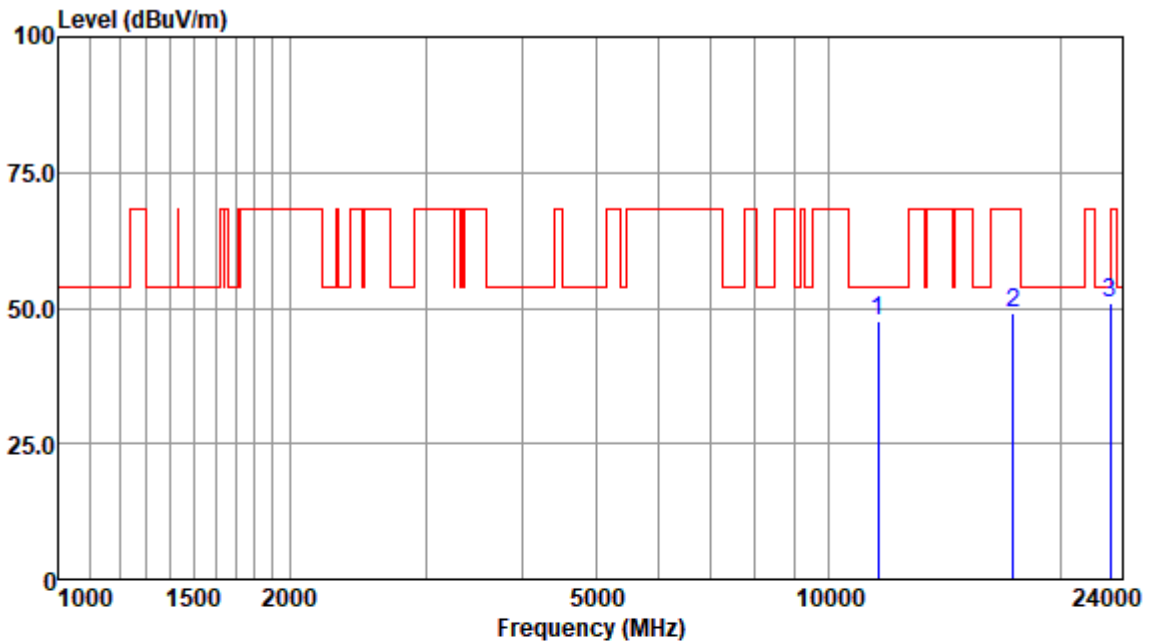
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

Read 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	
11550.00	40.39	35.78	7.44	36.02	47.59	54.00	-6.41	Peak
17325.00	34.25	40.77	10.25	36.20	49.07	68.20	-19.13	Peak
23100.00	29.48	44.59	13.08	36.16	50.99	54.00	-3.01	Peak

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



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**7.9 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)  
 Test Method: KDB 789033 D02 II G  
 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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7.9.1 E.U.T. Operation

Operating Environment:

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

Test mode: b:Charge + TX mode (Band 1)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:Charge + TX mode (Band 2A)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

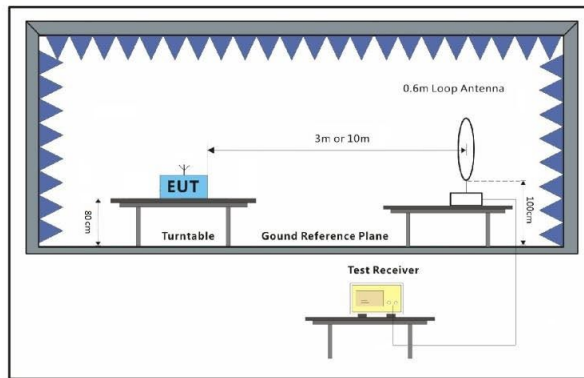
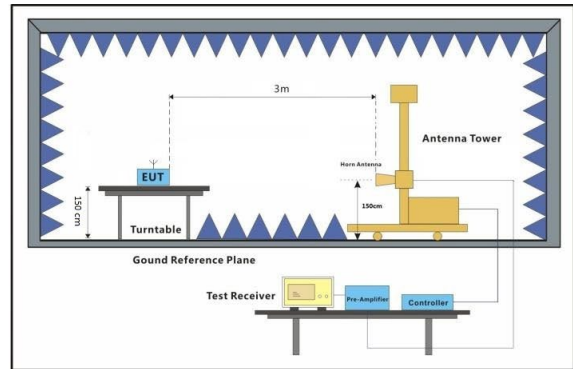
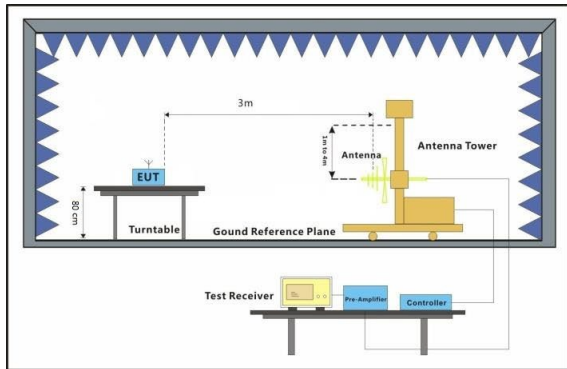
d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.9.2 Test Setup Diagram



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**7.9.3 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.

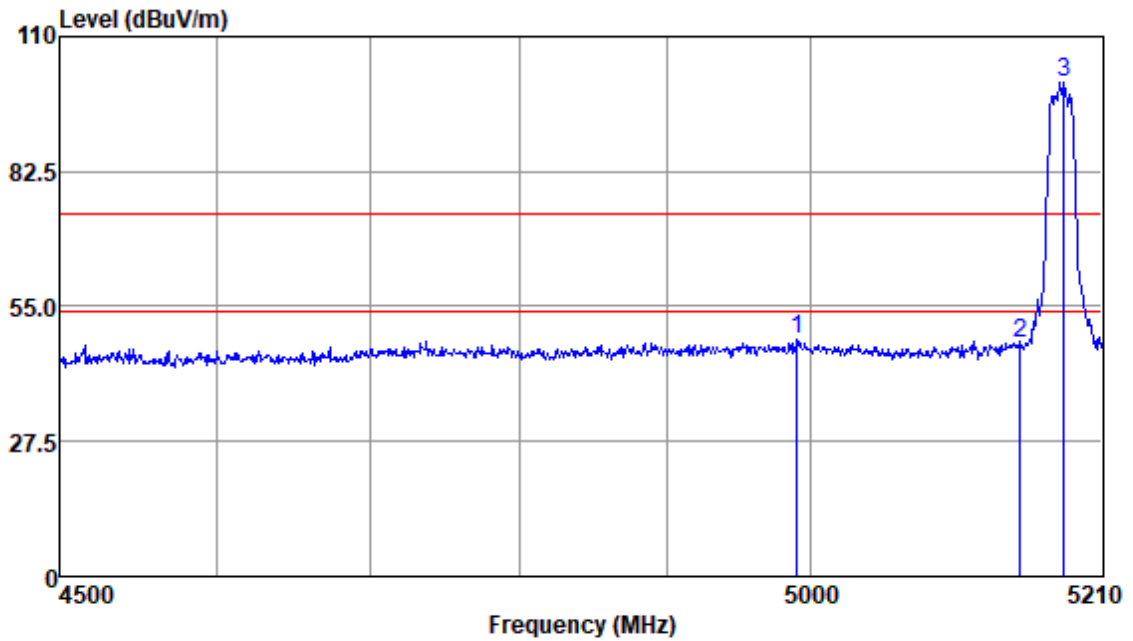
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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



Antenna Polarity :HORIZONTAL

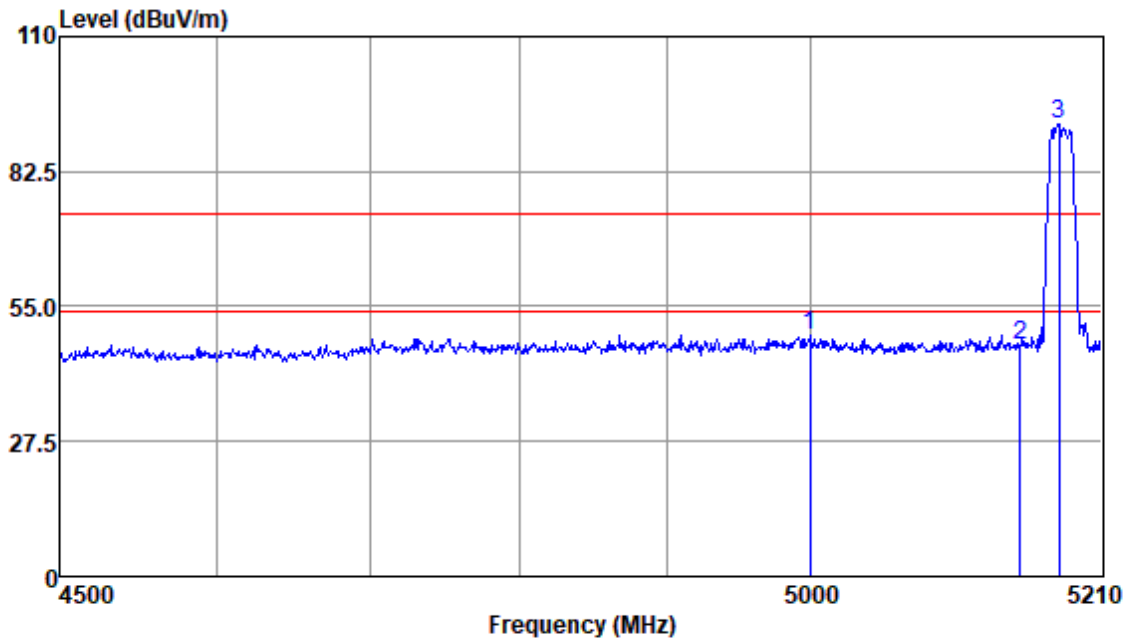
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4991.09	46.52	33.95	4.48	36.84	48.11	74.00	-25.89	Peak
5150.00	45.96	34.13	4.18	36.88	47.39	74.00	-26.61	Peak
5181.84	99.24	34.13	4.13	36.89	100.61	74.00	26.61	Peak

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



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



Antenna Polarity :VERTICAL

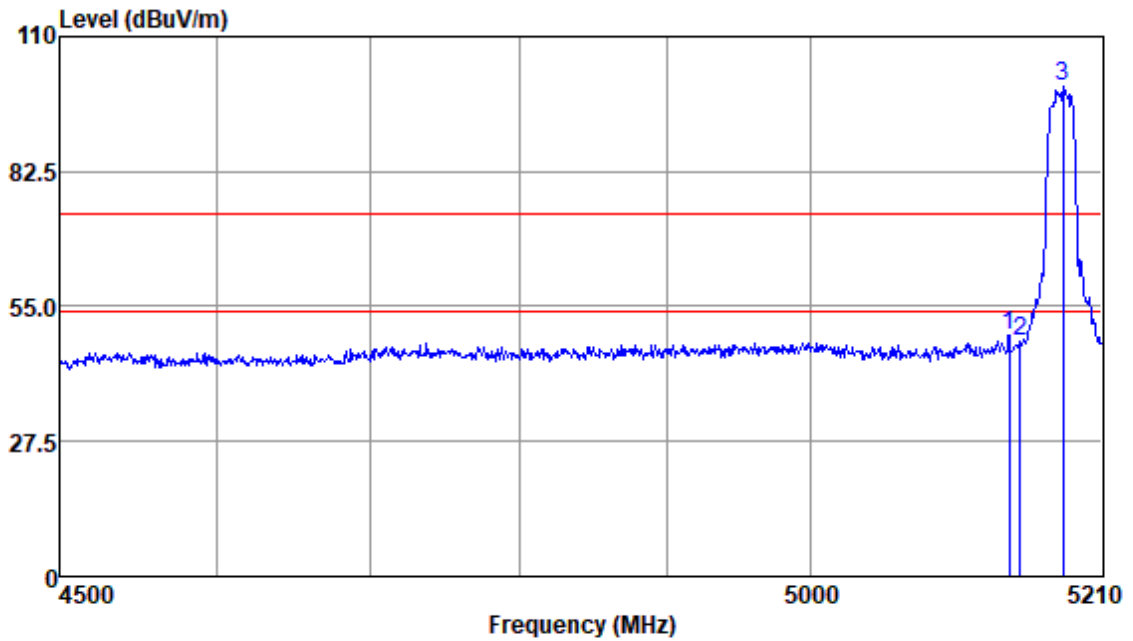
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
4999.87	47.73	33.94	4.45	36.84	49.28	74.00	-24.72 Peak
5150.00	45.58	34.13	4.18	36.88	47.01	74.00	-26.99 Peak
5178.04	90.81	34.13	4.13	36.89	92.18	74.00	18.18 Peak

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



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Mode:b; 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	dBuv/m	dB
5142.51	47.78	34.13	4.18	36.88	49.21	74.00	-24.79 Peak
5150.00	46.44	34.13	4.18	36.88	47.87	74.00	-26.13 Peak
5181.08	98.64	34.13	4.13	36.89	100.01	74.00	26.01 Peak

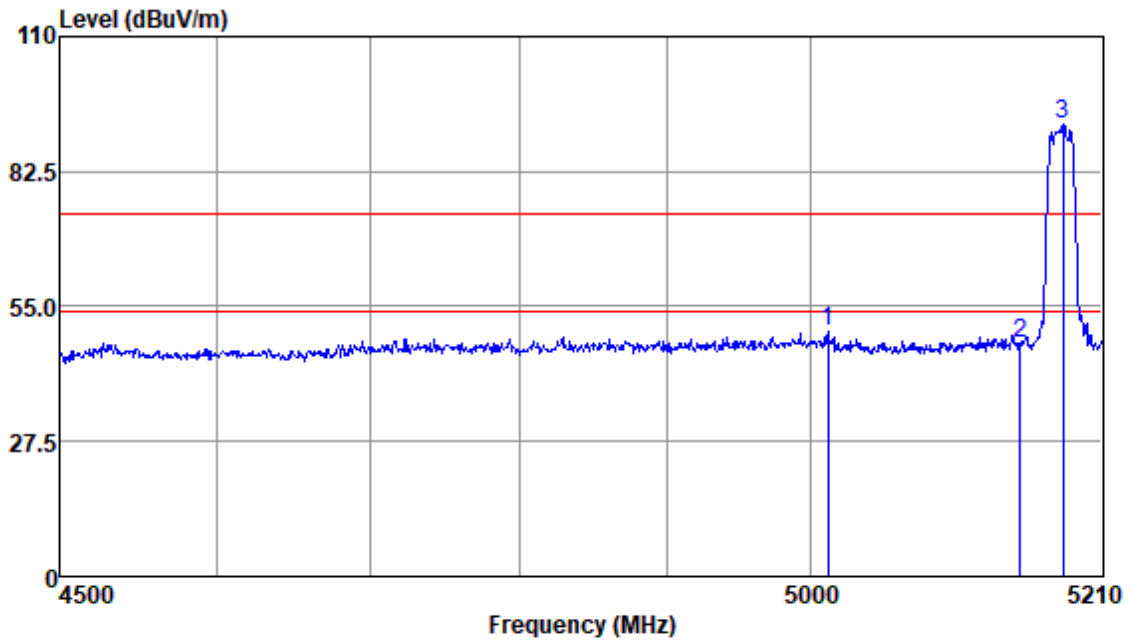
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

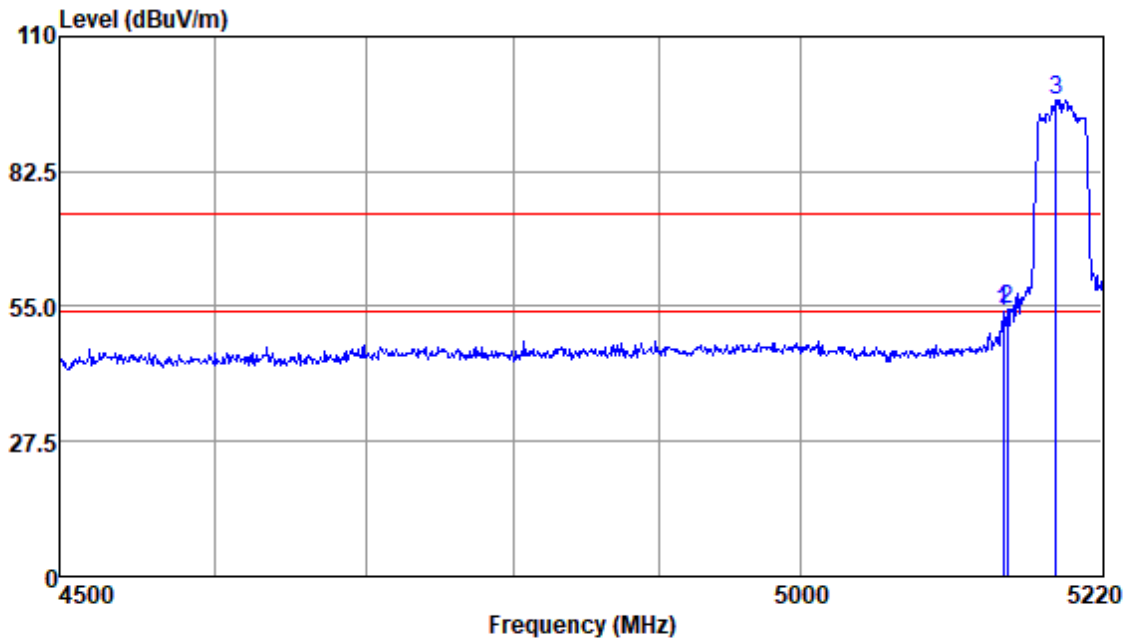
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5013.08	48.40	33.98	4.43	36.84	49.97	74.00	-24.03	Peak
5150.00	46.09	34.13	4.18	36.88	47.52	74.00	-26.48	Peak
5181.08	90.97	34.13	4.13	36.89	92.34	74.00	18.34	Peak

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



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



Antenna Polarity :HORIZONTAL

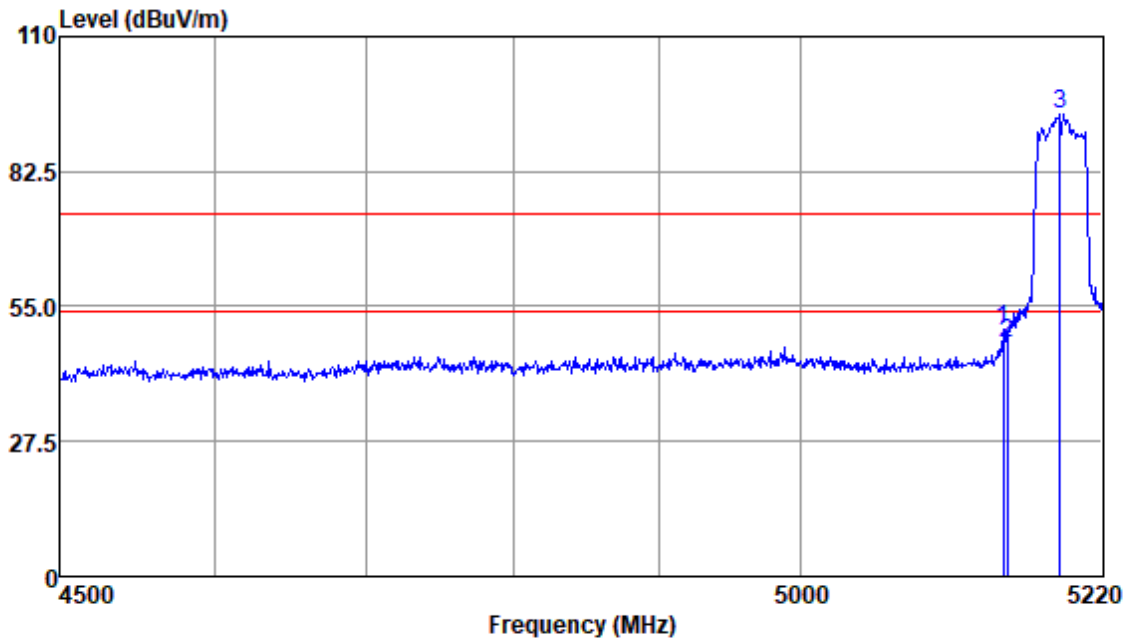
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dB	
5146.92	52.38	34.13	4.18	36.88	53.81	74.00	-20.19 Peak
5150.00	52.94	34.13	4.18	36.88	54.37	74.00	-19.63 Peak
5186.02	95.74	34.13	4.13	36.89	97.11	74.00	23.11 Peak

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



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



Antenna Polarity :HORIZONTAL

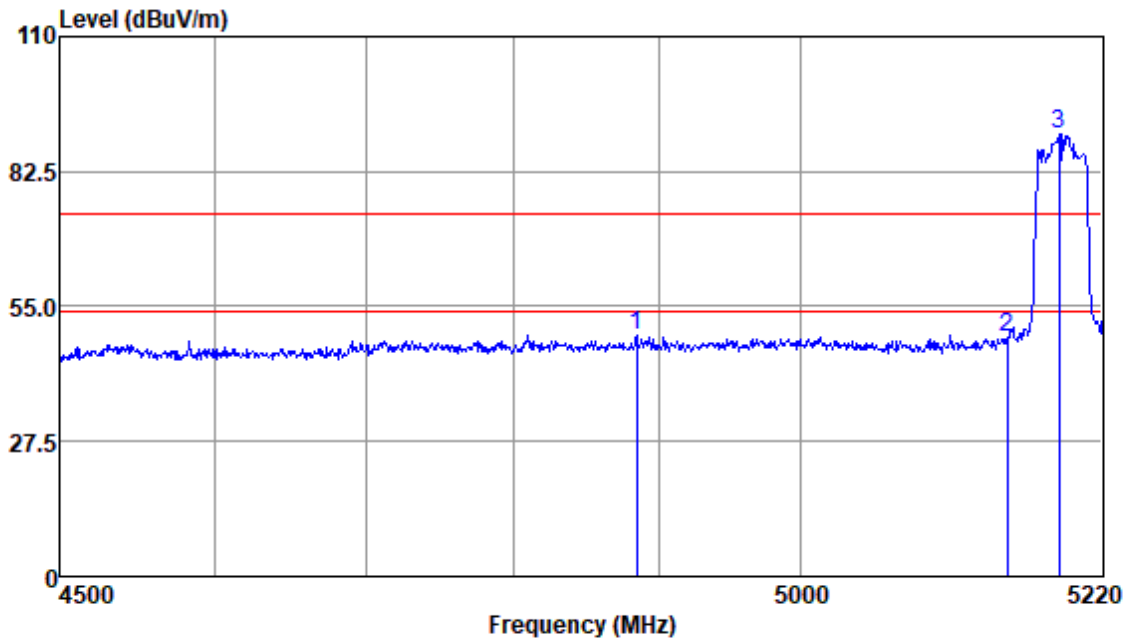
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5146.92	48.88	34.13	4.18	36.88	50.31	54.00	-3.69	Average
5150.00	46.26	34.13	4.18	36.88	47.69	54.00	-6.31	Average
5188.33	93.00	34.13	4.10	36.89	94.34	54.00	40.34	Average

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



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Mode:b; 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
4884.92	47.65	33.95	4.47	36.81	49.26	74.00	-24.74 Peak
5150.00	47.08	34.13	4.18	36.88	48.51	74.00	-25.49 Peak
5187.56	88.67	34.13	4.10	36.89	90.01	74.00	16.01 Peak

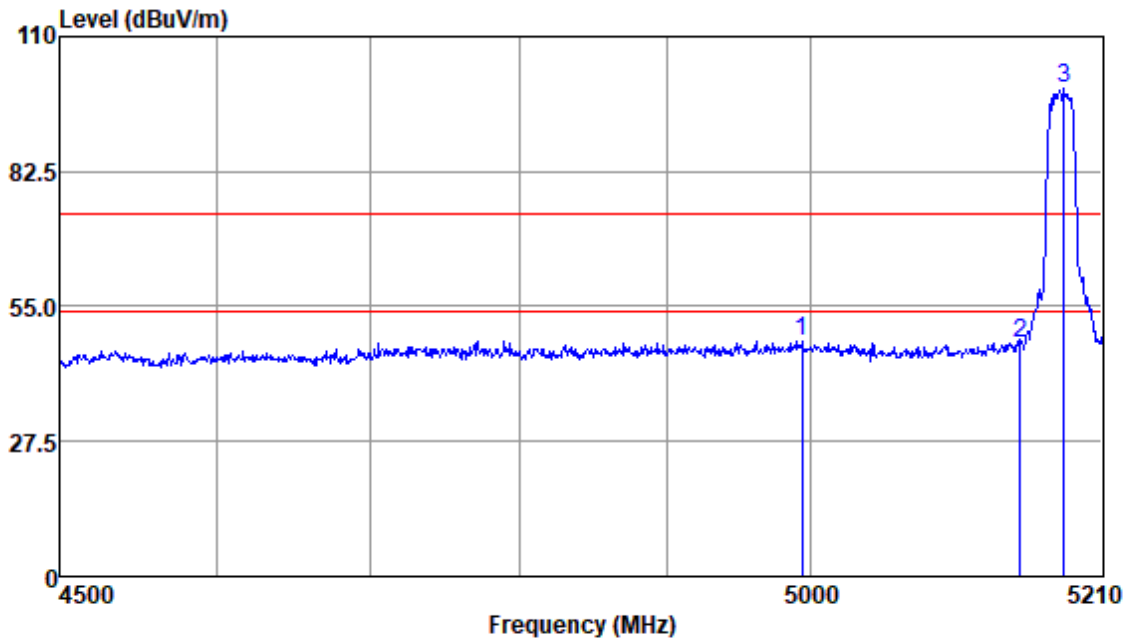
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

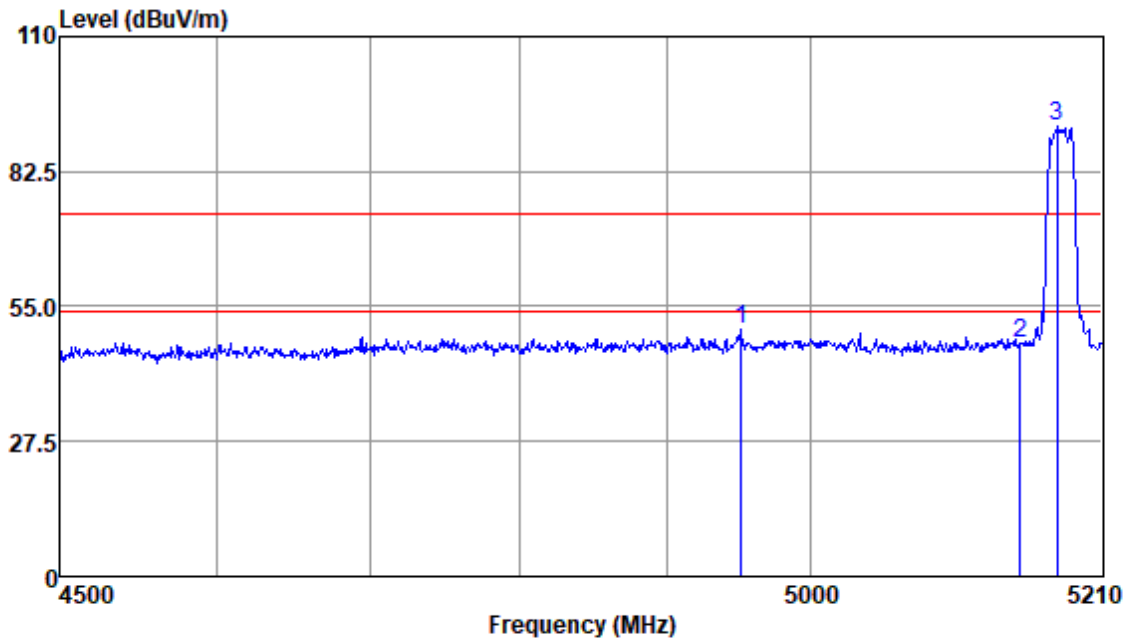
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4994.75	46.47	33.95	4.48	36.84	48.06	74.00	-25.94	Peak
5150.00	46.12	34.13	4.18	36.88	47.55	74.00	-26.45	Peak
5181.84	98.04	34.13	4.13	36.89	99.41	74.00	25.41	Peak

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



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



Antenna Polarity :VERTICAL

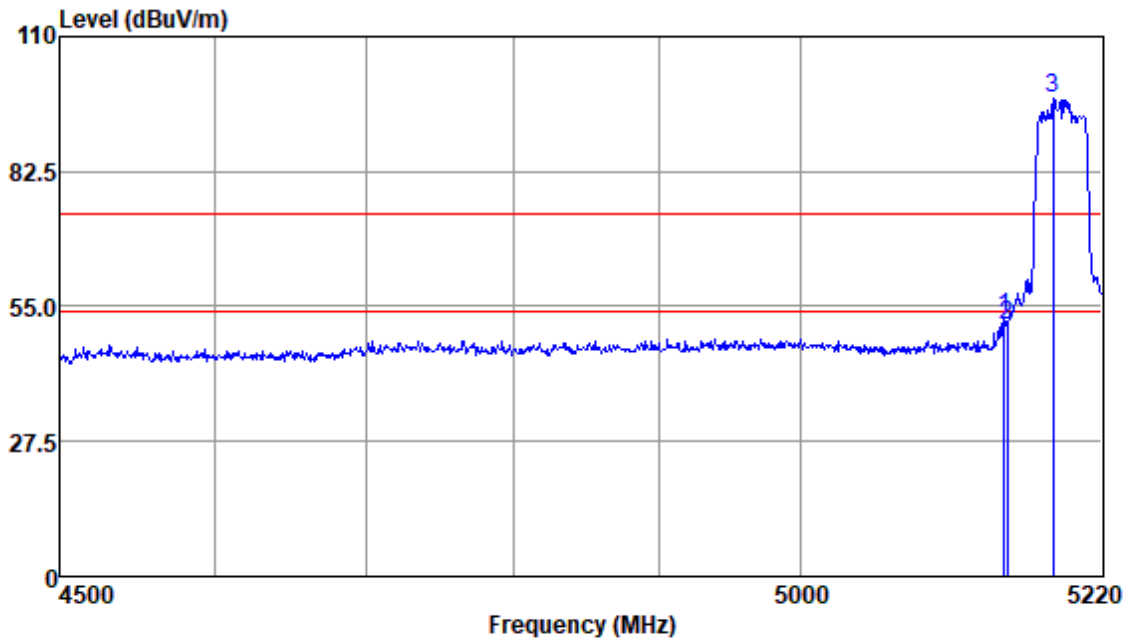
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
4951.76	48.50	33.99	4.48	36.82	50.15	74.00	-23.85 Peak
5150.00	46.08	34.13	4.18	36.88	47.51	74.00	-26.49 Peak
5177.28	90.31	34.13	4.13	36.89	91.68	74.00	17.68 Peak

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



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

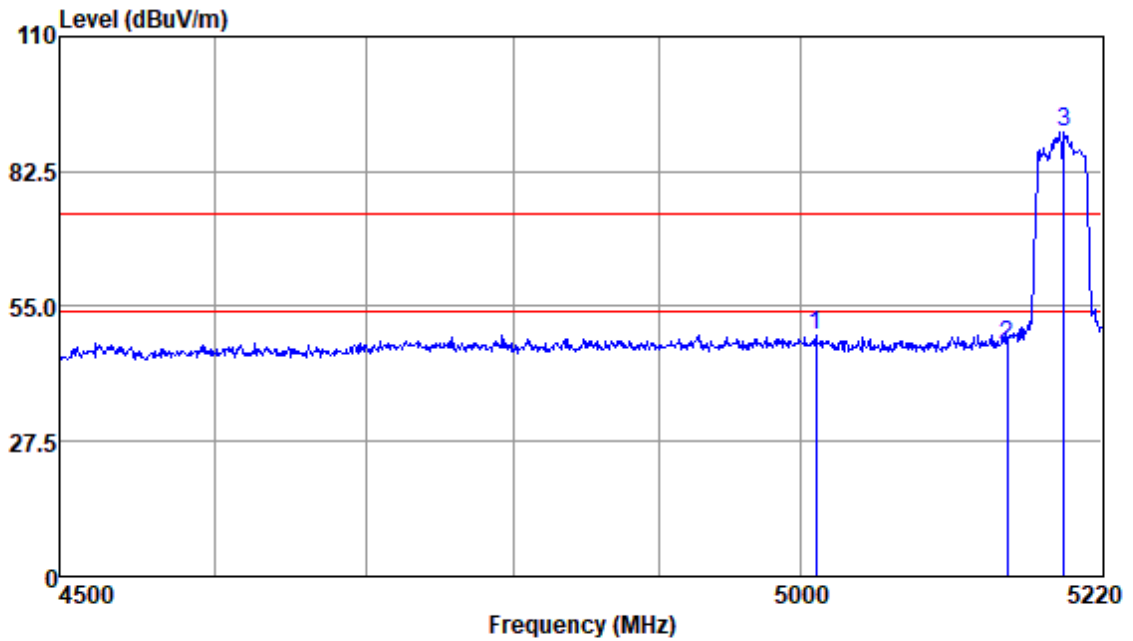
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5147.68	51.22	34.13	4.18	36.88	52.65	74.00	-21.35	Peak
5150.00	49.66	34.13	4.18	36.88	51.09	74.00	-22.91	Peak
5183.71	95.98	34.13	4.13	36.89	97.35	74.00	23.35	Peak

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



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Mode:b; Polarization:Vertical; Modulation:c; 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	dB	
5011.23	47.68	33.98	4.43	36.84	49.25	74.00	-24.75 Peak
5150.00	45.85	34.13	4.18	36.88	47.28	74.00	-26.72 Peak
5191.41	89.23	34.13	4.10	36.89	90.57	74.00	16.57 Peak

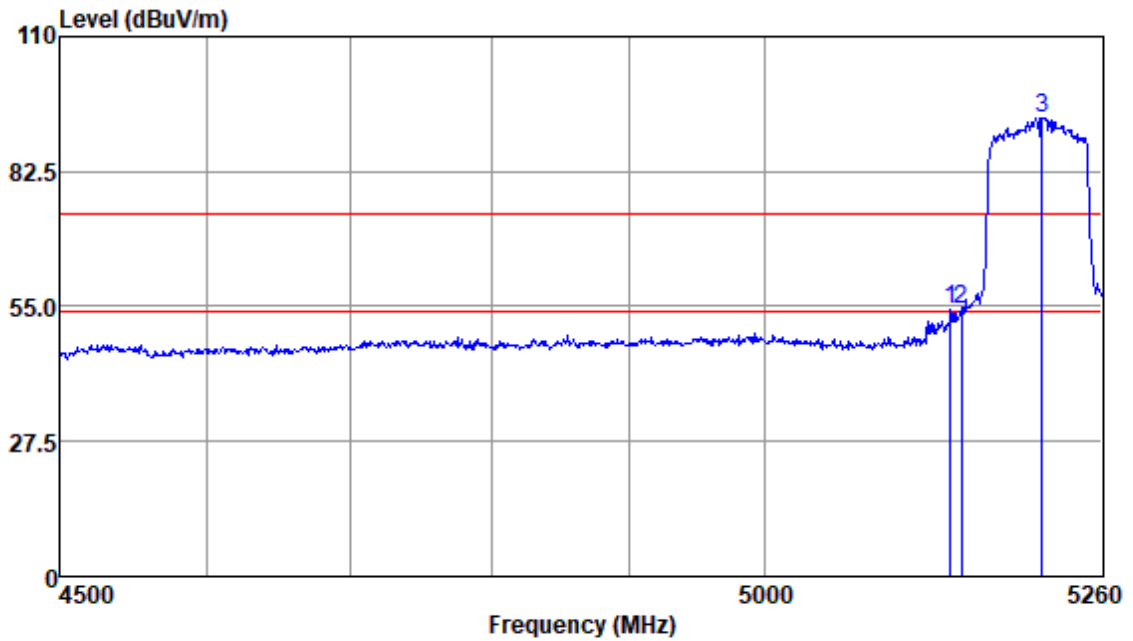
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

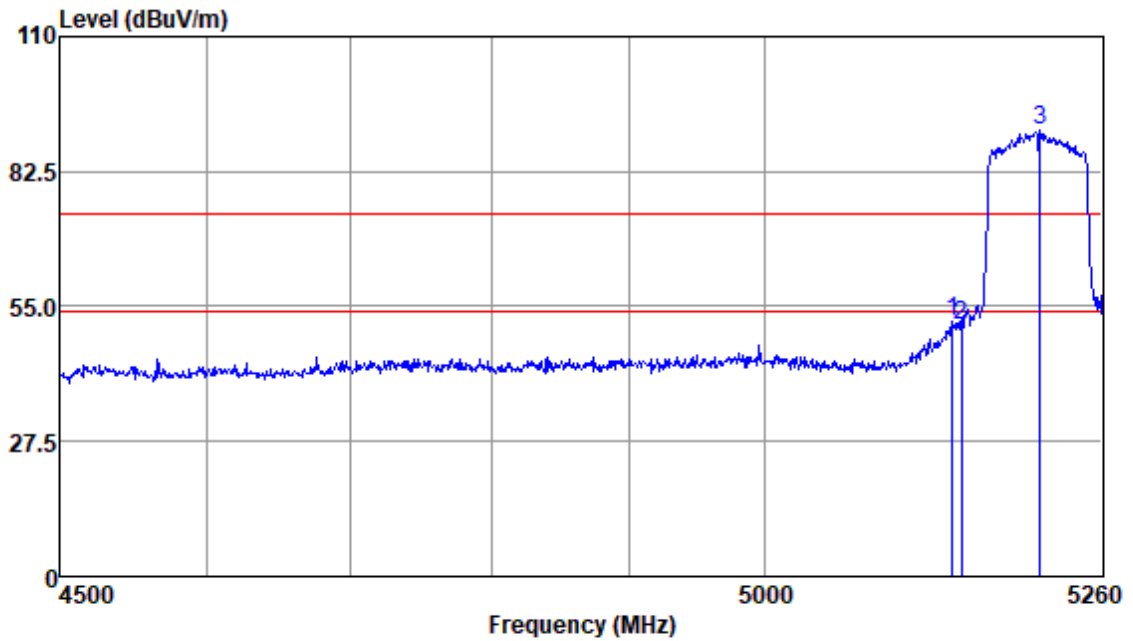
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
5141.51	52.97	34.13	4.21	36.88	54.43	74.00	-19.57 Peak
5150.00	52.81	34.13	4.18	36.88	54.24	74.00	-19.76 Peak
5212.61	92.11	34.16	4.08	36.90	93.45	74.00	19.45 Peak

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



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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

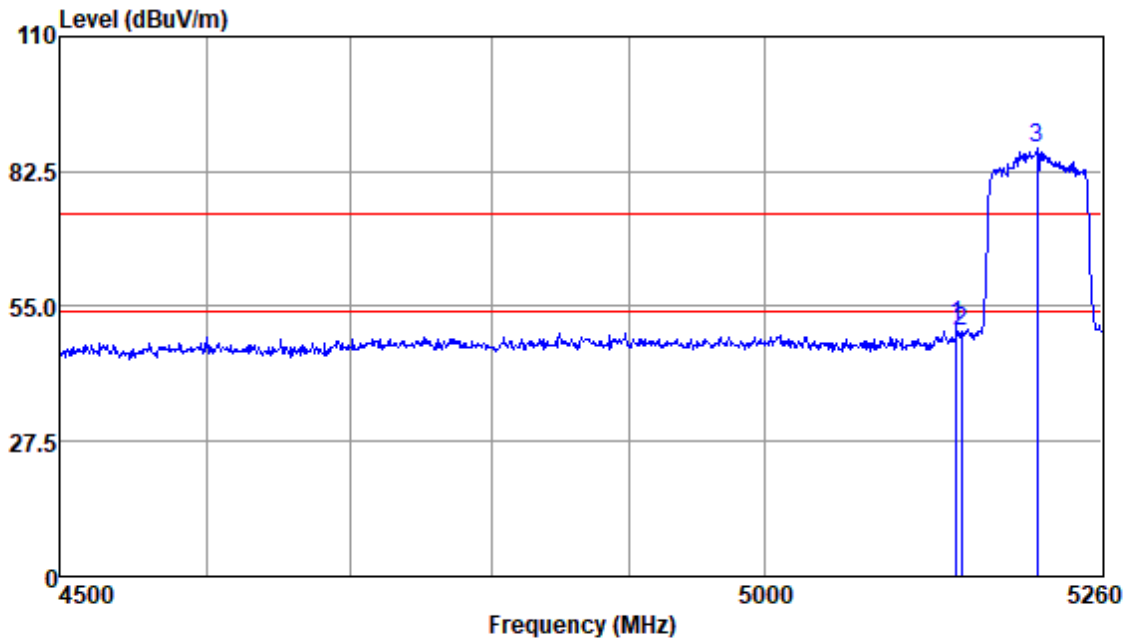
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
5143.12	50.72	34.13	4.18	36.88	52.15	54.00	-1.85 Average
5150.00	49.69	34.13	4.18	36.88	51.12	54.00	-2.88 Average
5210.98	89.75	34.16	4.08	36.90	91.09	54.00	37.09 Average

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



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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

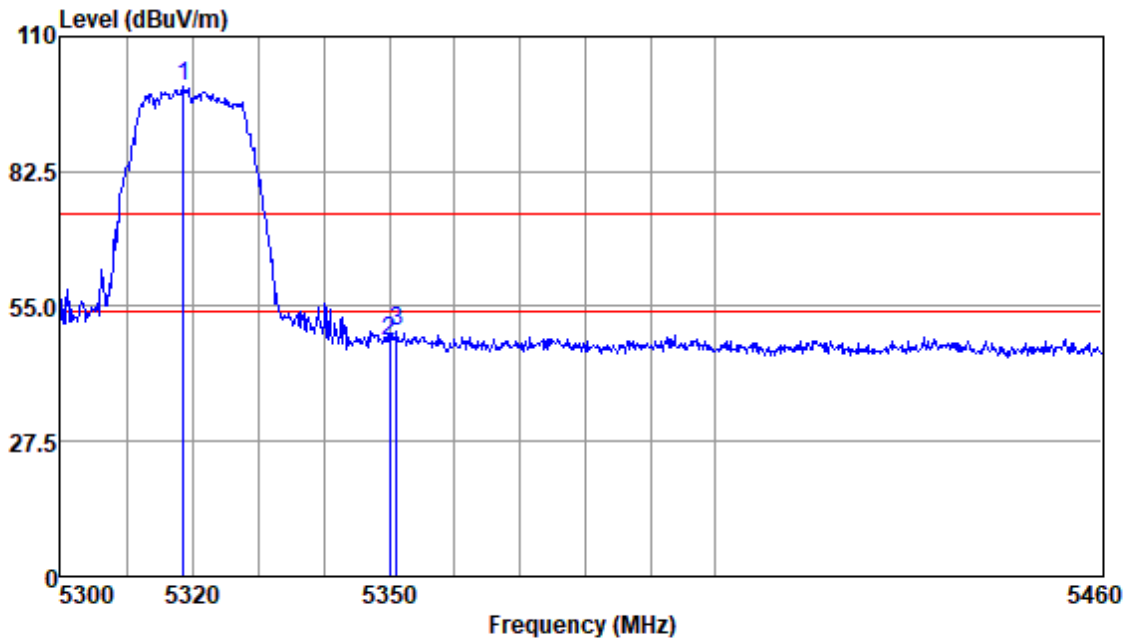
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
5146.33	49.61	34.13	4.18	36.88	51.04	74.00	-22.96 Peak
5150.00	48.34	34.13	4.18	36.88	49.77	74.00	-24.23 Peak
5208.54	85.81	34.16	4.08	36.90	87.15	74.00	13.15 Peak

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



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



Antenna Polarity :HORIZONTAL

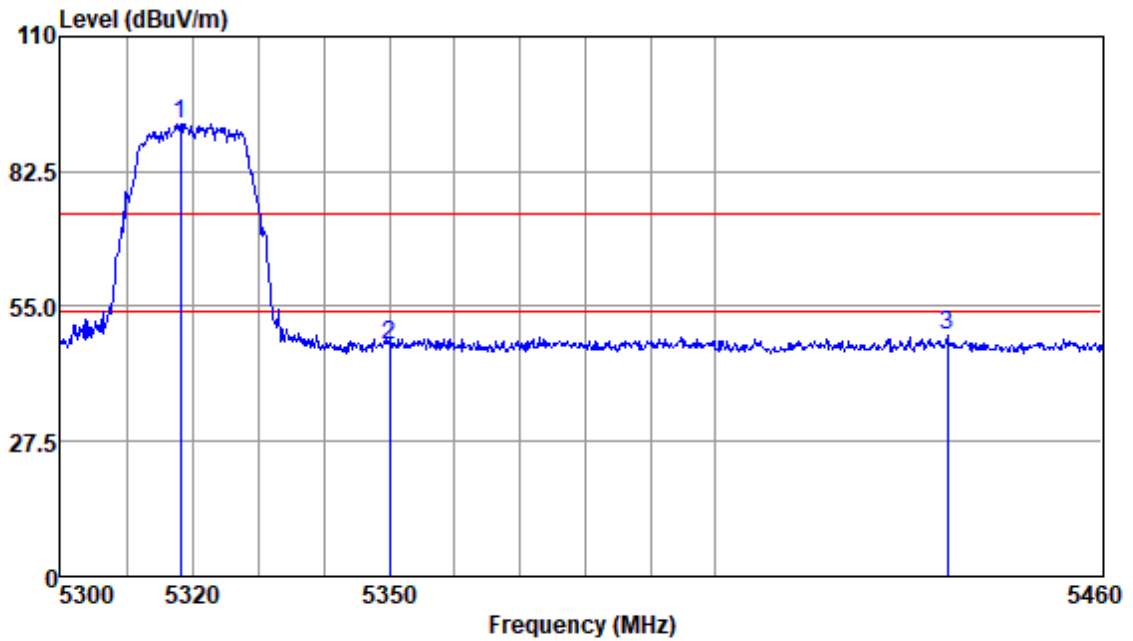
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBUV	dB/m	dB	dB	dBUV/m	dBUV/m	dB
5318.63	98.16	34.58	3.89	36.93	99.70	74.00	25.70 Peak
5350.00	46.48	34.71	3.83	36.94	48.08	74.00	-25.92 Peak
5351.16	48.42	34.71	3.83	36.94	50.02	74.00	-23.98 Peak

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



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



Antenna Polarity :VERTICAL

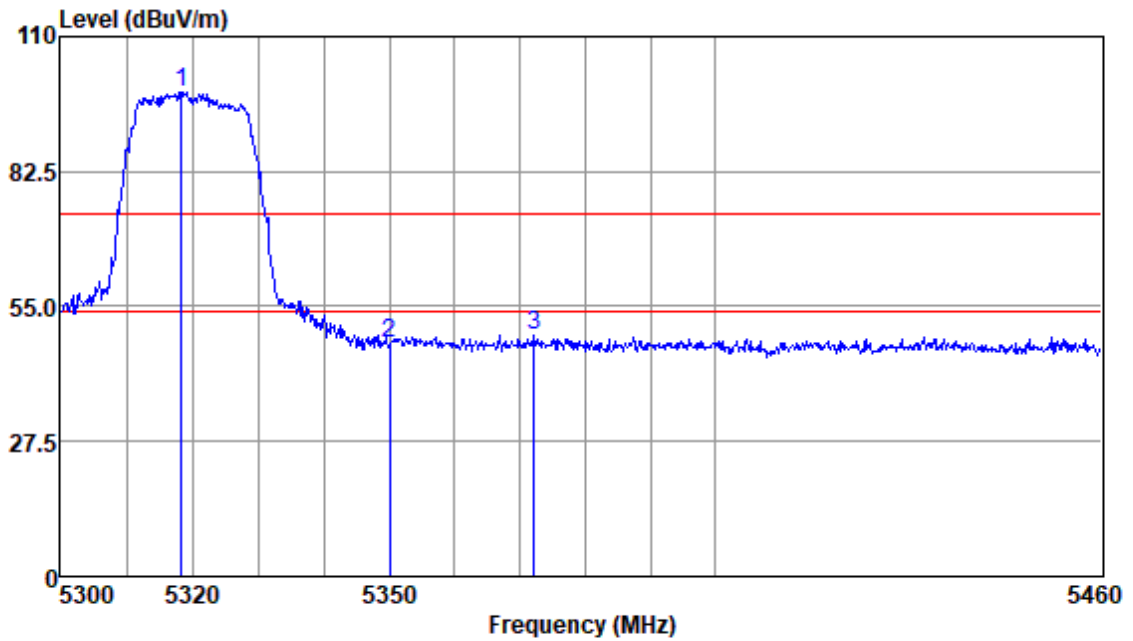
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor Loss Factor Level Line Limit Remark							
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5318.16	90.78	34.58	3.89	36.93	92.32	74.00	18.32	Peak
5350.00	45.64	34.71	3.83	36.94	47.24	74.00	-26.76	Peak
5435.86	47.66	34.65	3.67	36.96	49.02	74.00	-24.98	Peak

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



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



Antenna Polarity :HORIZONTAL

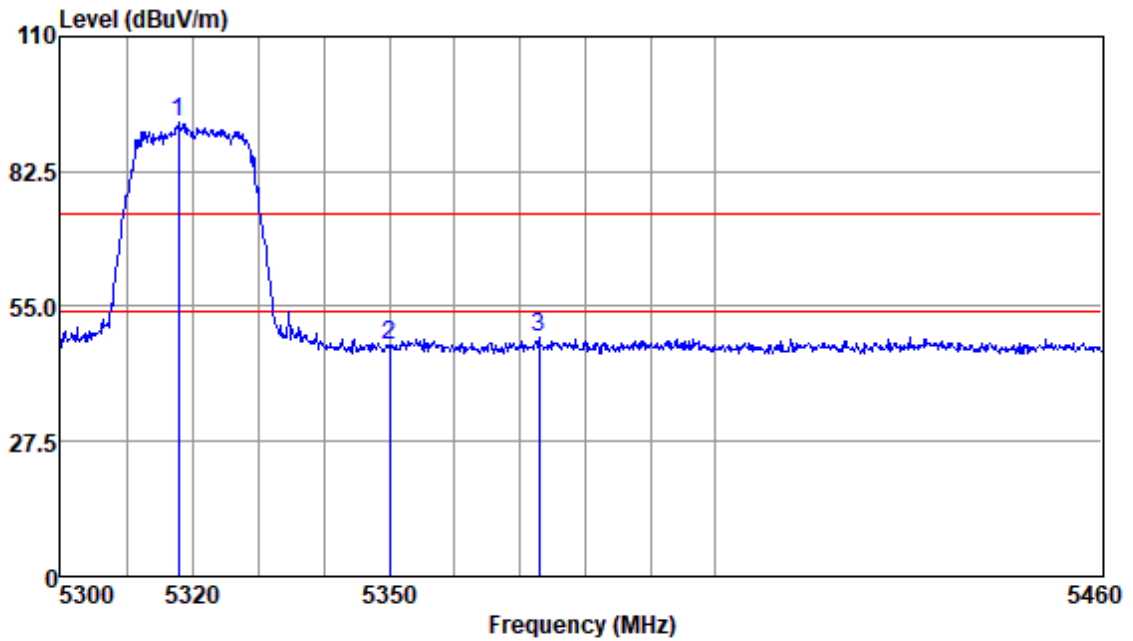
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5318.32	97.11	34.58	3.89	36.93	98.65	74.00	24.65	Peak
5350.00	45.93	34.71	3.83	36.94	47.53	74.00	-26.47	Peak
5372.21	47.42	34.70	3.78	36.95	48.95	74.00	-25.05	Peak

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



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



Antenna Polarity :VERTICAL

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							
5317.84	91.04	34.58	3.89	36.93	92.58	74.00	18.58	Peak
5350.00	45.44	34.71	3.83	36.94	47.04	74.00	-26.96	Peak
5372.85	47.28	34.70	3.78	36.95	48.81	74.00	-25.19	Peak

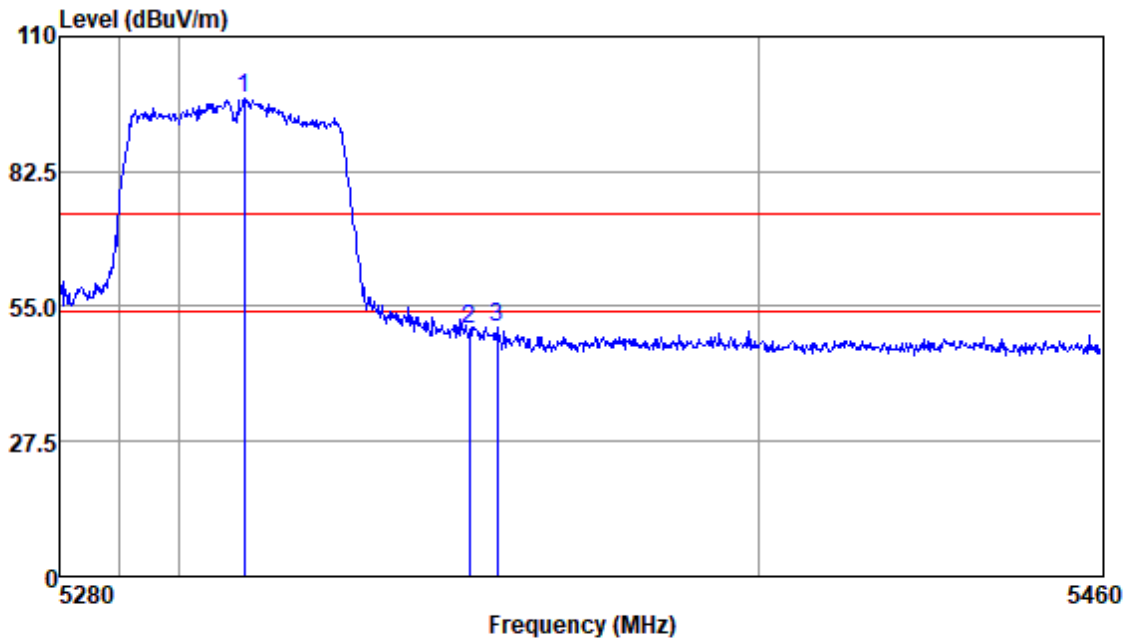
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



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	dBUV/m	dBUV/m	dB	
5311.24	95.76	34.58	3.89	36.93	97.30	74.00	23.30	Peak
5350.00	48.63	34.71	3.83	36.94	50.23	74.00	-23.77	Peak
5354.69	49.36	34.70	3.81	36.94	50.93	74.00	-23.07	Peak

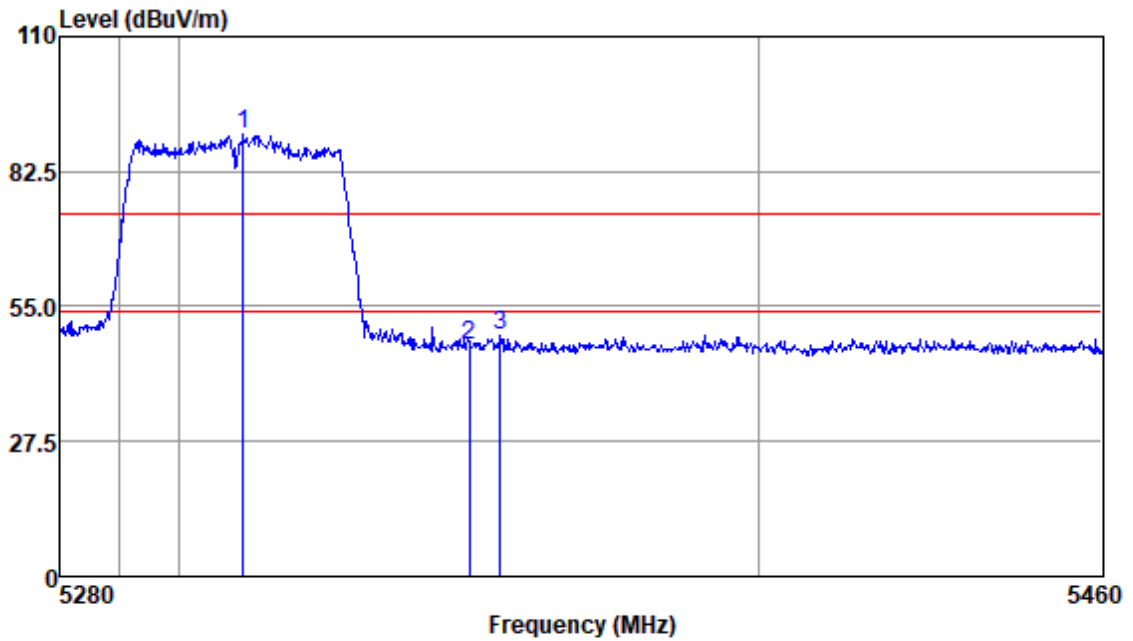
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

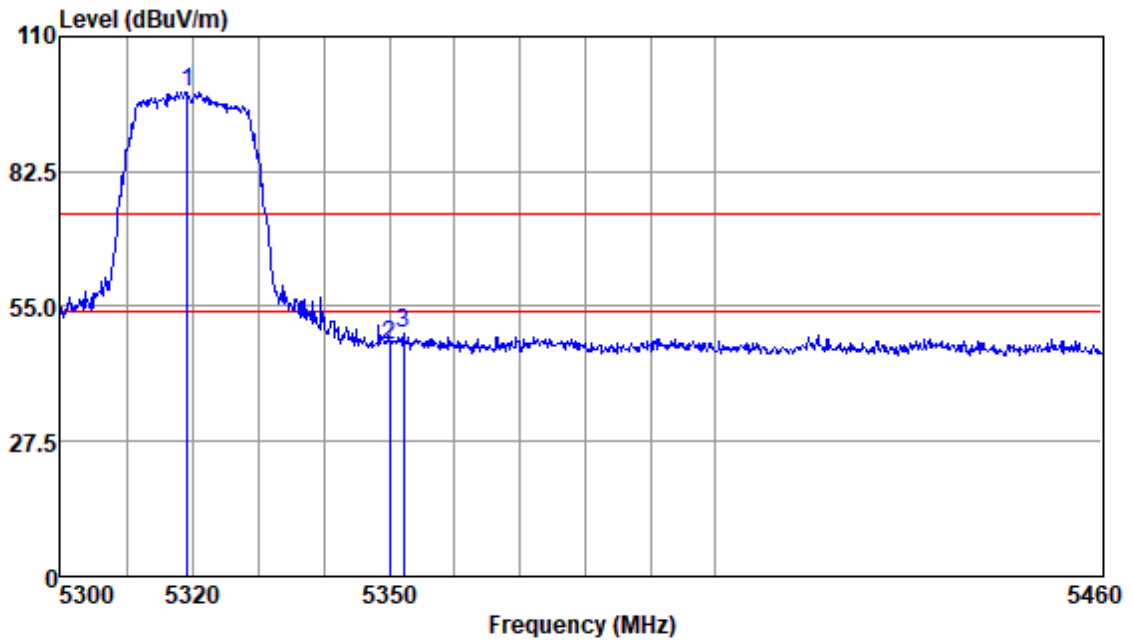
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5311.07	88.40	34.58	3.89	36.93	89.94	74.00	15.94	Peak
5350.00	45.57	34.71	3.83	36.94	47.17	74.00	-26.83	Peak
5355.23	47.64	34.70	3.81	36.94	49.21	74.00	-24.79	Peak

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



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



Antenna Polarity :HORIZONTAL

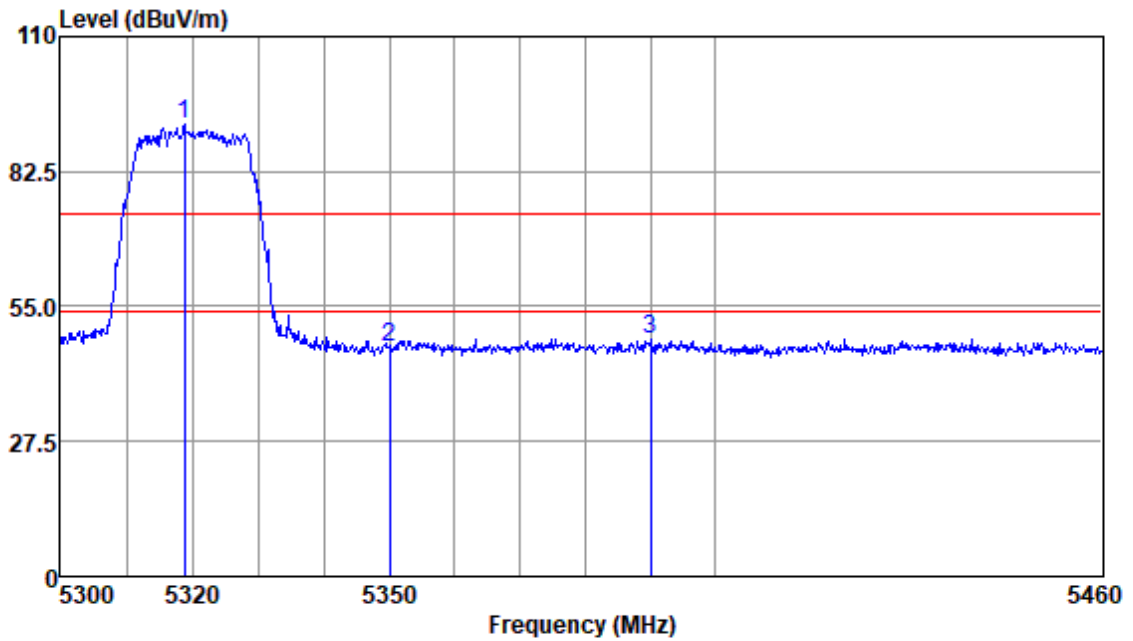
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
5319.27	97.03	34.58	3.89	36.93	98.57	74.00	Peak
5350.00	45.33	34.71	3.83	36.94	46.93	74.00	Peak
5352.12	47.81	34.71	3.83	36.94	49.41	74.00	Peak

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor Loss Factor Level Line Limit Remark							
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5318.79	90.41	34.58	3.89	36.93	91.95	74.00	17.95	Peak
5350.00	45.19	34.71	3.83	36.94	46.79	74.00	-27.21	Peak
5389.98	46.95	34.69	3.75	36.95	48.44	74.00	-25.56	Peak

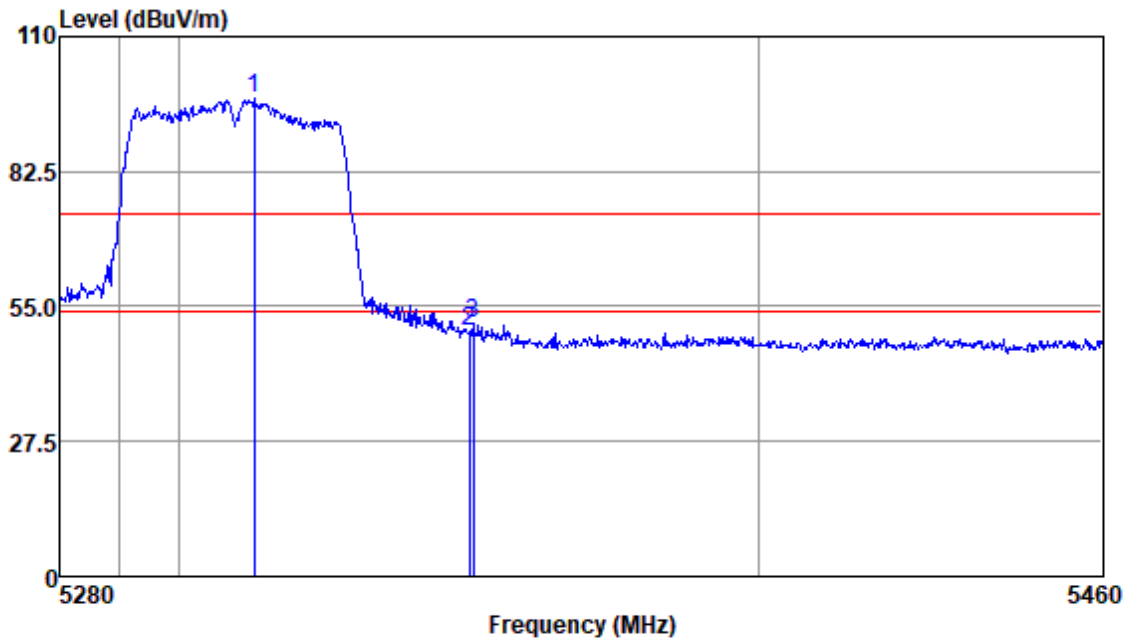
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

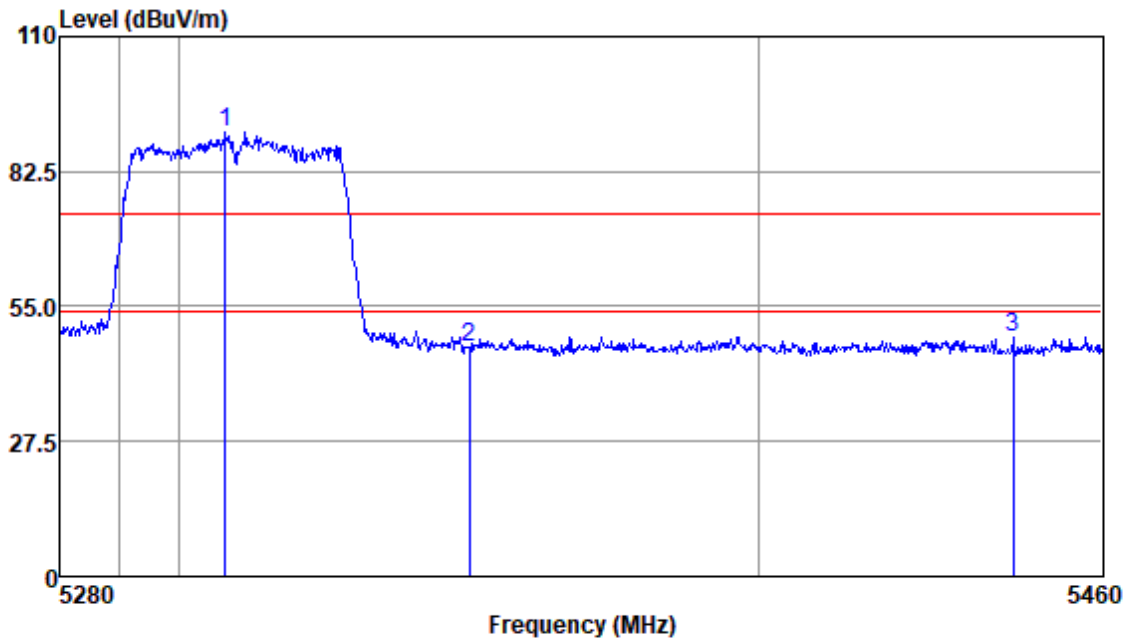
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5313.03	95.88	34.58	3.89	36.93	97.42	74.00	23.42	Peak
5350.00	48.24	34.71	3.83	36.94	49.84	74.00	-24.16	Peak
5350.56	49.85	34.71	3.83	36.94	51.45	74.00	-22.55	Peak

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



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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

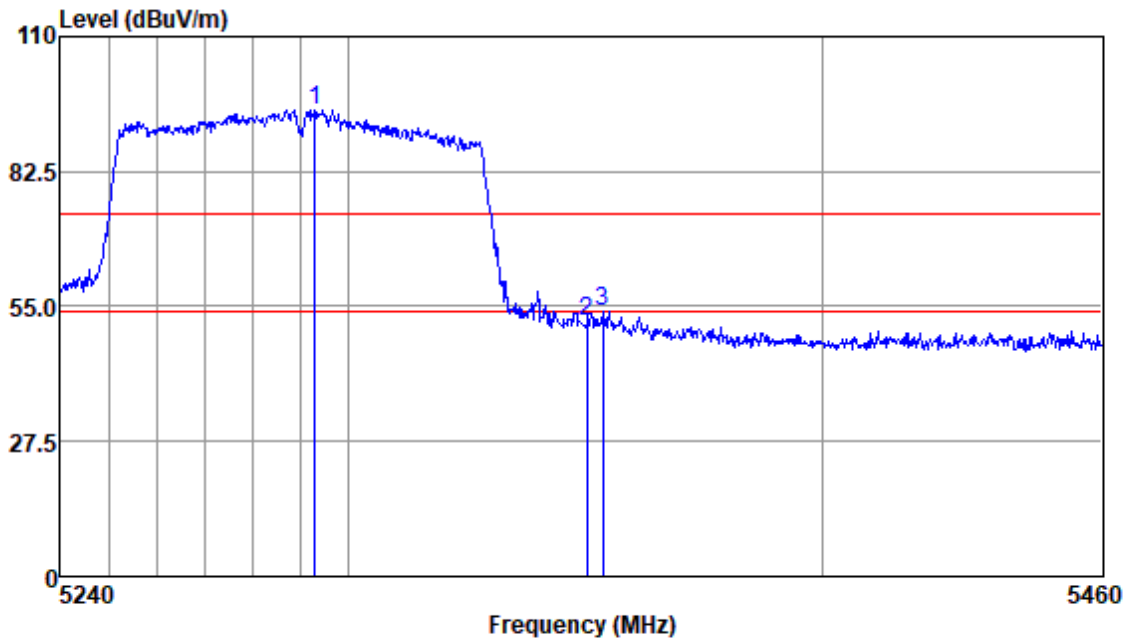
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5308.04	89.08	34.58	3.89	36.93	90.62	74.00	16.62	Peak
5350.00	45.17	34.71	3.83	36.94	46.77	74.00	-27.23	Peak
5444.28	47.47	34.65	3.67	36.96	48.83	74.00	-25.17	Peak

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



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

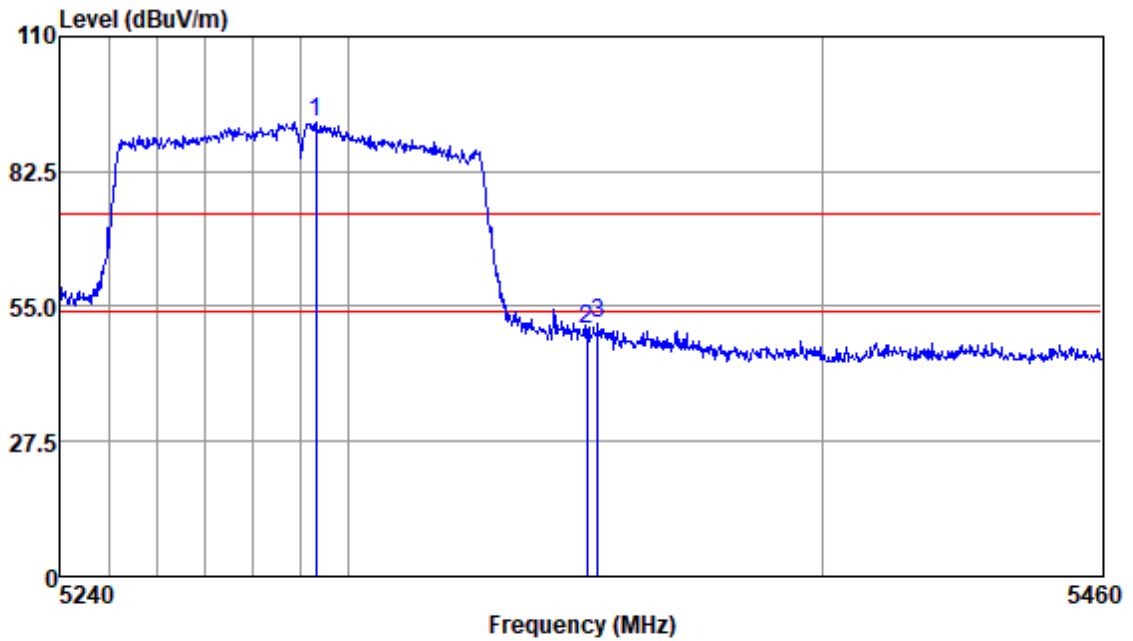
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5292.85	93.62	34.52	3.92	36.92	95.14	74.00	21.14	Peak
5350.00	50.49	34.71	3.83	36.94	52.09	74.00	-21.91	Peak
5353.49	52.37	34.71	3.83	36.94	53.97	74.00	-20.03	Peak

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



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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



Antenna Polarity :HORIZONTAL

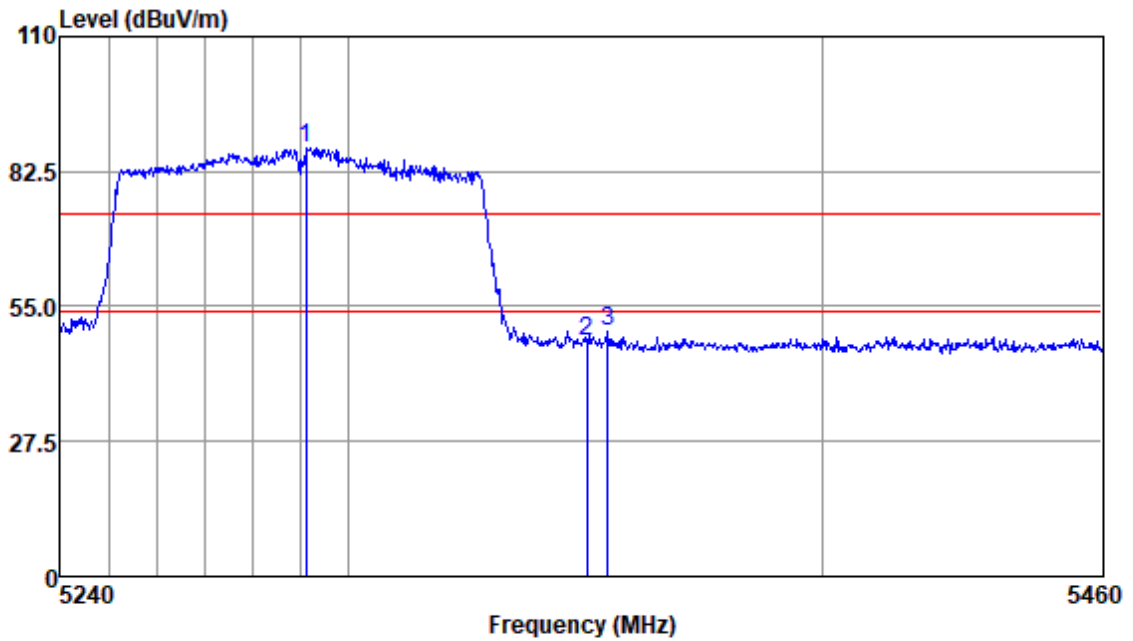
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5293.07	91.11	34.52	3.92	36.92	92.63	54.00	38.63	Average
5350.00	48.78	34.71	3.83	36.94	50.38	54.00	-3.62	Average
5352.39	49.85	34.71	3.83	36.94	51.45	54.00	-2.55	Average

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



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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; 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	dB	
5291.11	85.84	34.43	3.94	36.92	87.29	74.00	13.29 Peak
5350.00	46.15	34.71	3.83	36.94	47.75	74.00	-26.25 Peak
5354.37	48.15	34.70	3.81	36.94	49.72	74.00	-24.28 Peak

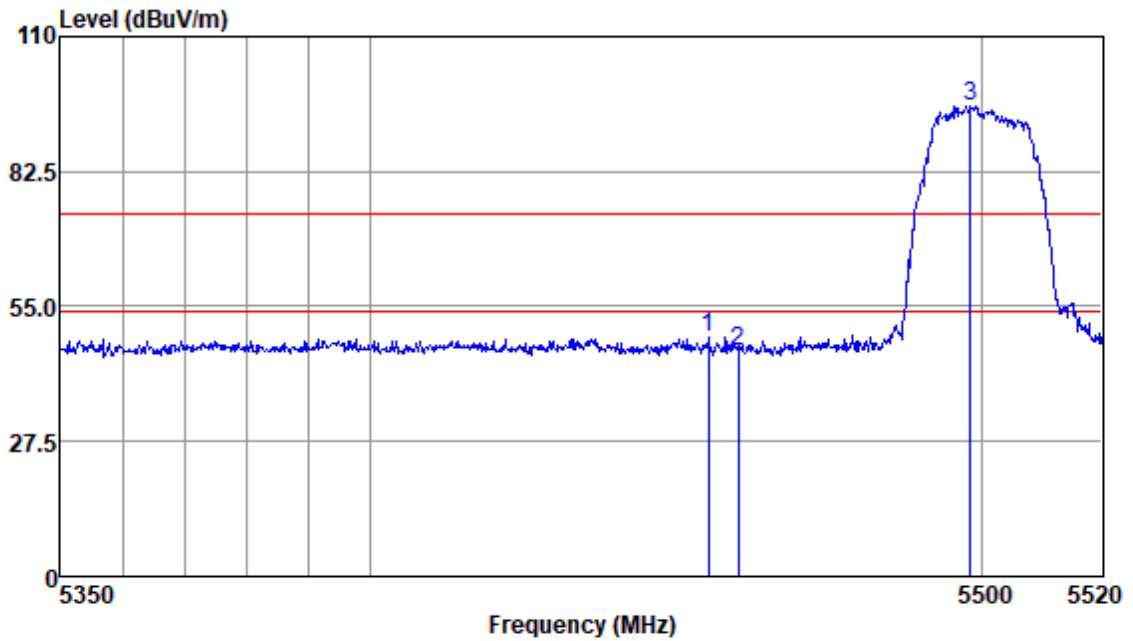
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

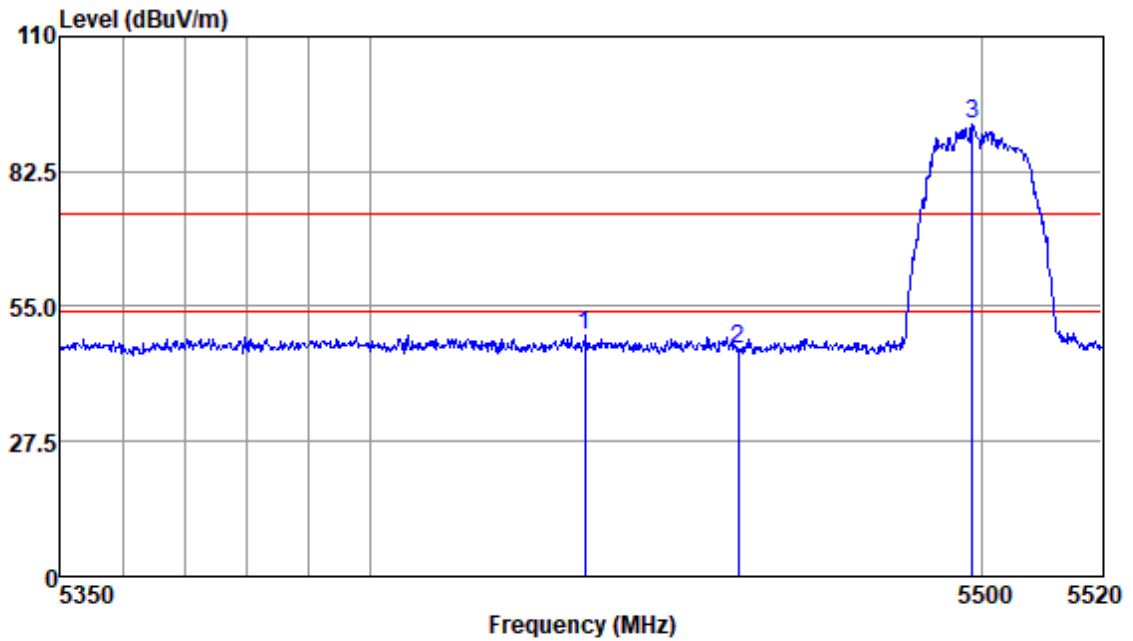
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5455.11	34.64	3.65	36.97	48.82	74.00	-25.18	Peak
5460.00	34.64	3.65	36.97	45.86	74.00	-28.14	Peak
5498.11	34.69	3.60	36.98	95.81	74.00	21.81	Peak

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



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



Antenna Polarity :VERTICAL

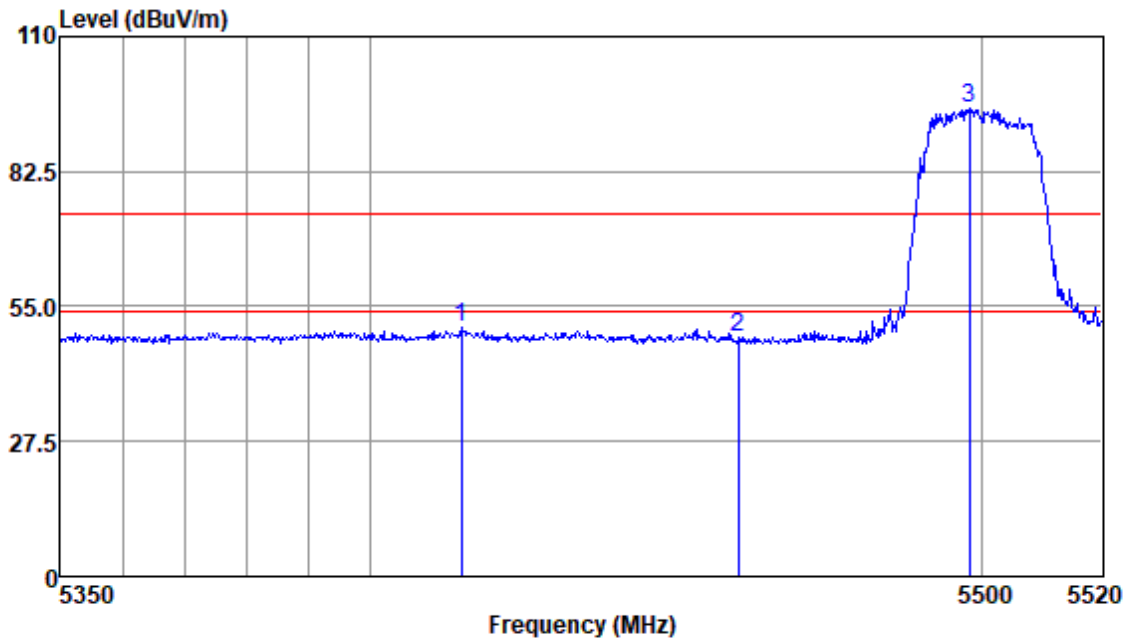
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5434.85	47.85	34.65	3.67	36.96	49.21	74.00	-24.79	Peak
5460.00	44.87	34.64	3.65	36.97	46.19	74.00	-27.81	Peak
5498.46	90.75	34.69	3.60	36.98	92.06	74.00	18.06	Peak

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



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



Antenna Polarity :HORIZONTAL

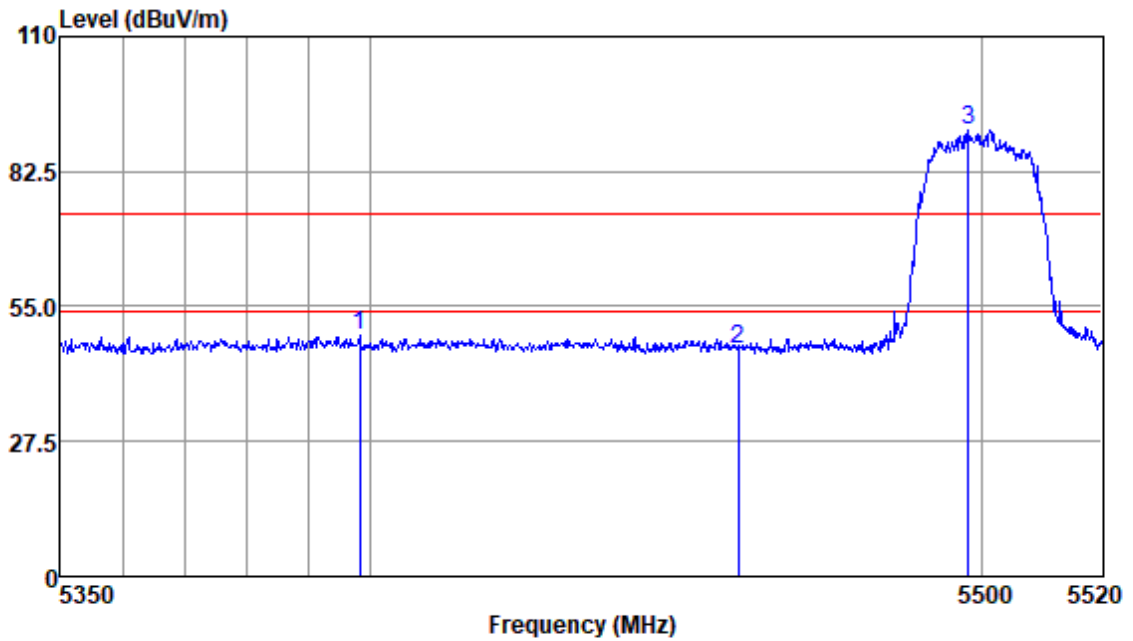
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
5414.82	49.36	34.68	3.73	36.95	50.82	74.00	-23.18 Peak
5460.00	47.54	34.64	3.65	36.97	48.86	74.00	-25.14 Peak
5497.94	94.00	34.69	3.60	36.98	95.31	74.00	21.31 Peak

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



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



Antenna Polarity :VERTICAL

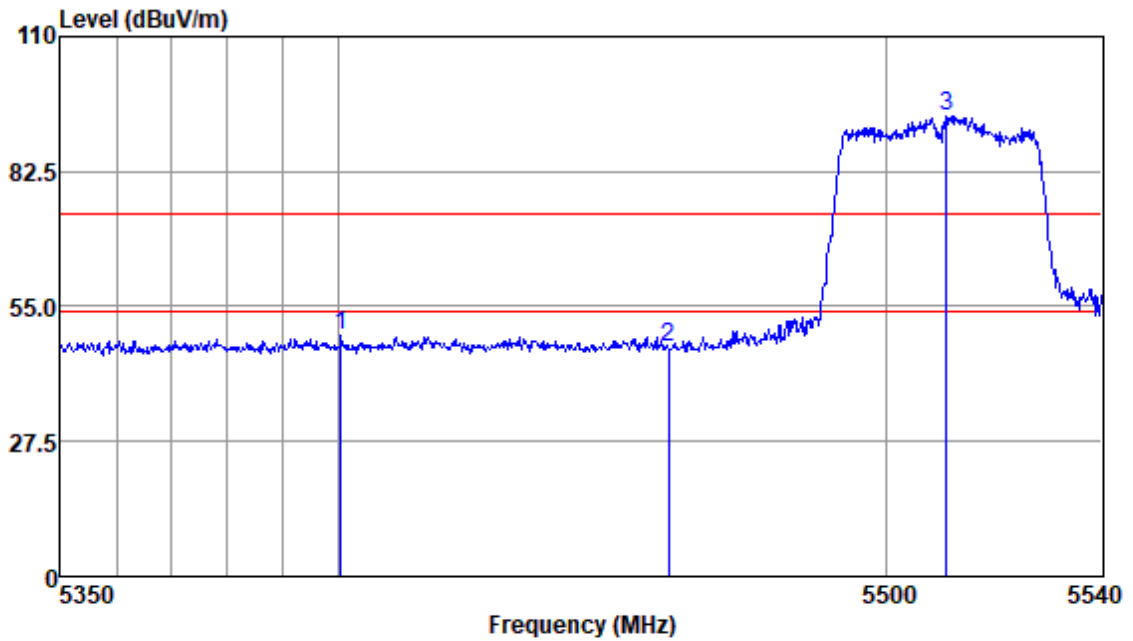
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5398.25	34.69	3.75	36.95	49.15	74.00	-24.85	Peak
5460.00	34.64	3.65	36.97	46.38	74.00	-27.62	Peak
5497.77	34.69	3.60	36.98	90.97	74.00	16.97	Peak

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



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



Antenna Polarity :HORIZONTAL

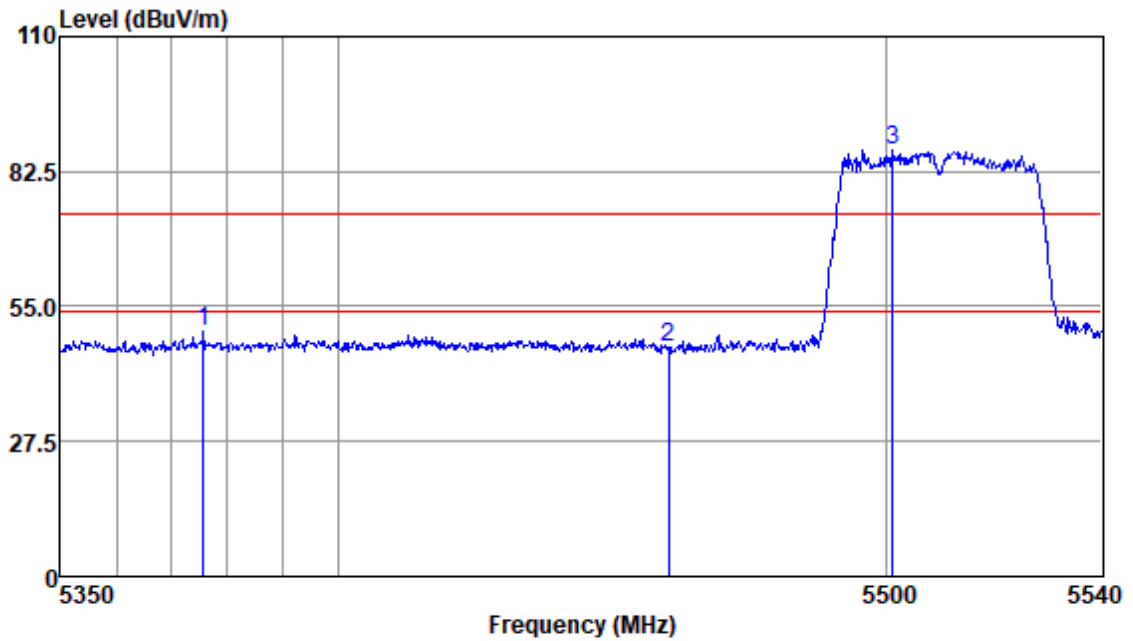
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5400.46	47.82	34.69	3.75	36.95	49.31	74.00	-24.69	Peak
5460.00	45.38	34.64	3.65	36.97	46.70	74.00	-27.30	Peak
5511.08	92.62	34.69	3.60	36.98	93.93	74.00	19.93	Peak

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



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



Antenna Polarity :VERTICAL

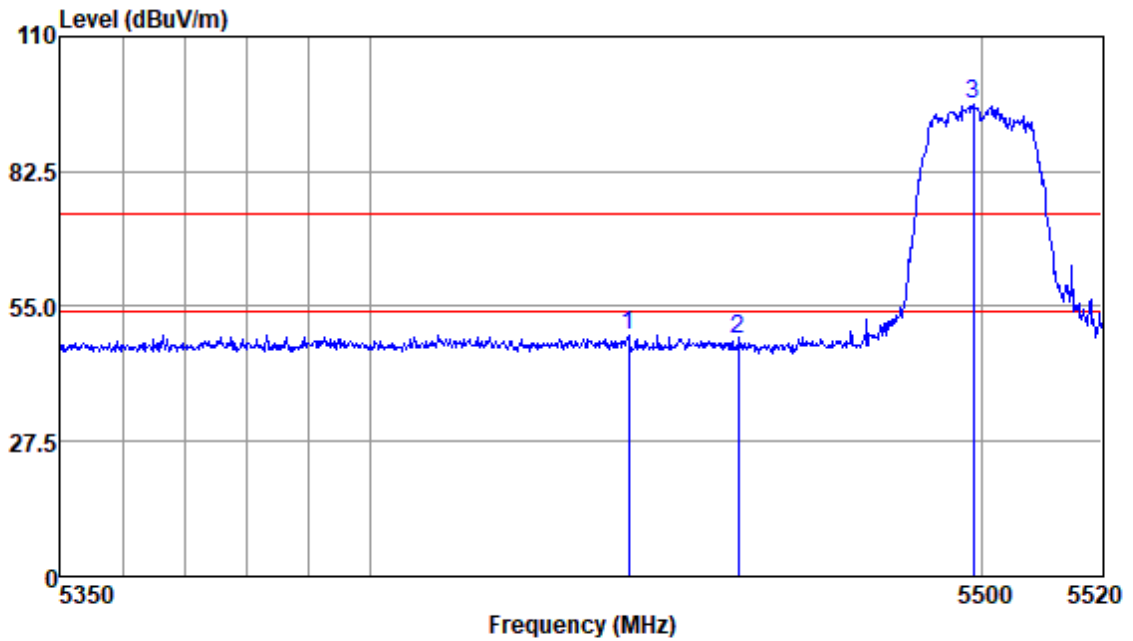
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5375.64	48.23	34.70	3.78	36.95	49.76	74.00	-24.24	Peak
5460.00	45.33	34.64	3.65	36.97	46.65	74.00	-27.35	Peak
5501.28	85.50	34.69	3.60	36.98	86.81	74.00	12.81	Peak

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



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



Antenna Polarity :HORIZONTAL

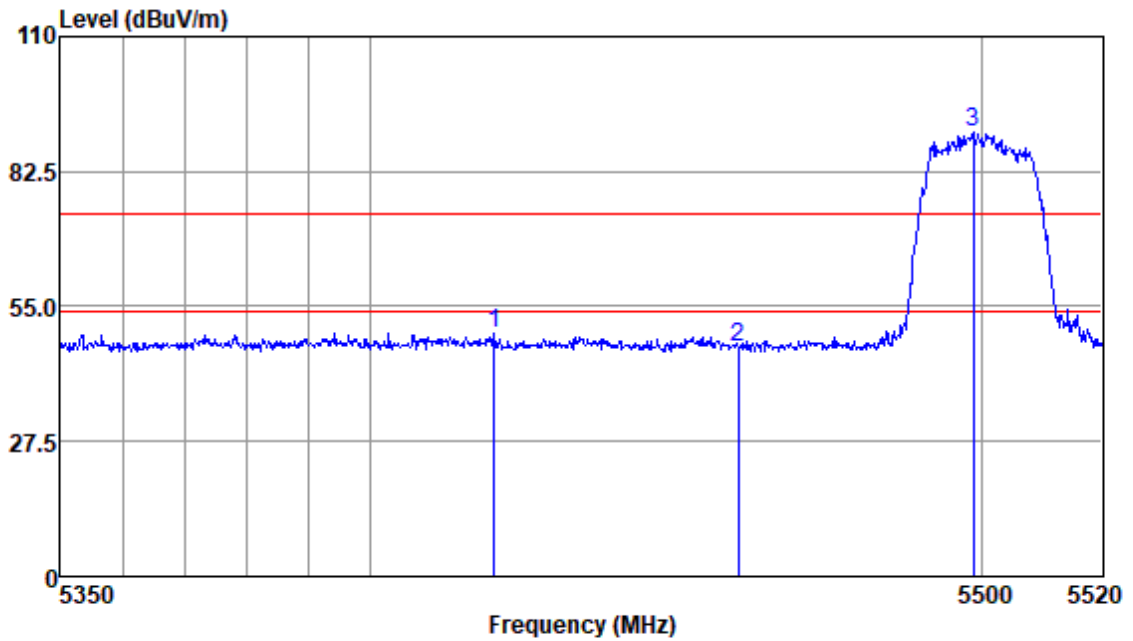
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5441.99	34.65	3.67	36.96	49.25	74.00	-24.75	Peak
5460.00	34.64	3.65	36.97	48.12	74.00	-25.88	Peak
5498.63	34.69	3.60	36.98	96.31	74.00	22.31	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; 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	dB	
5420.08	48.16	34.67	3.70	36.96	49.57	74.00	-24.43 Peak
5460.00	45.55	34.64	3.65	36.97	46.87	74.00	-27.13 Peak
5498.63	89.29	34.69	3.60	36.98	90.60	74.00	16.60 Peak

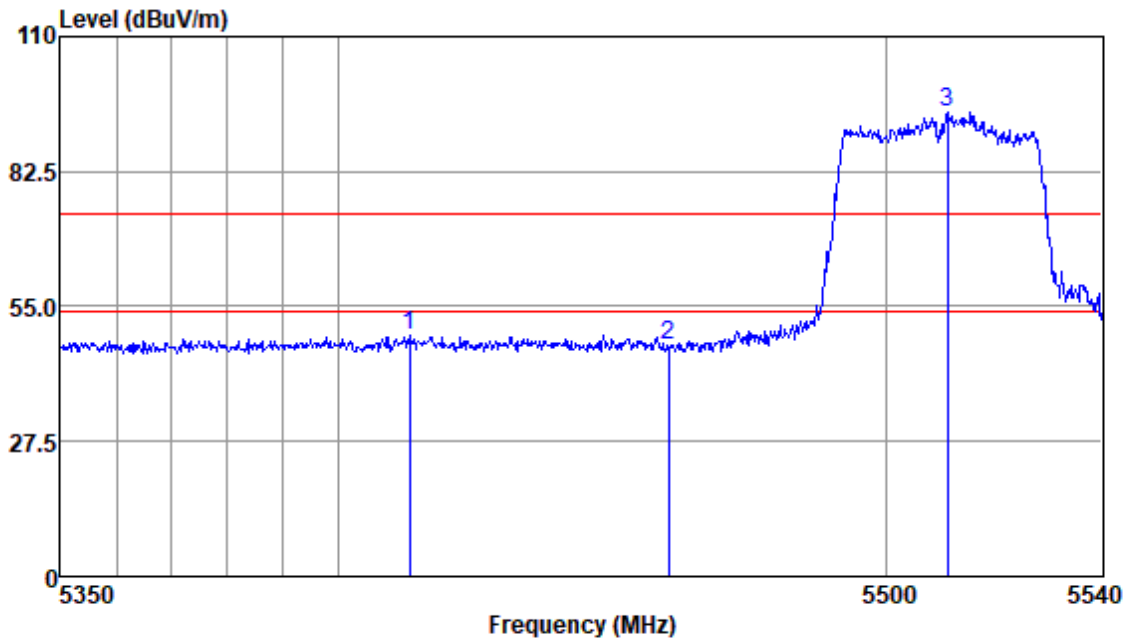
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

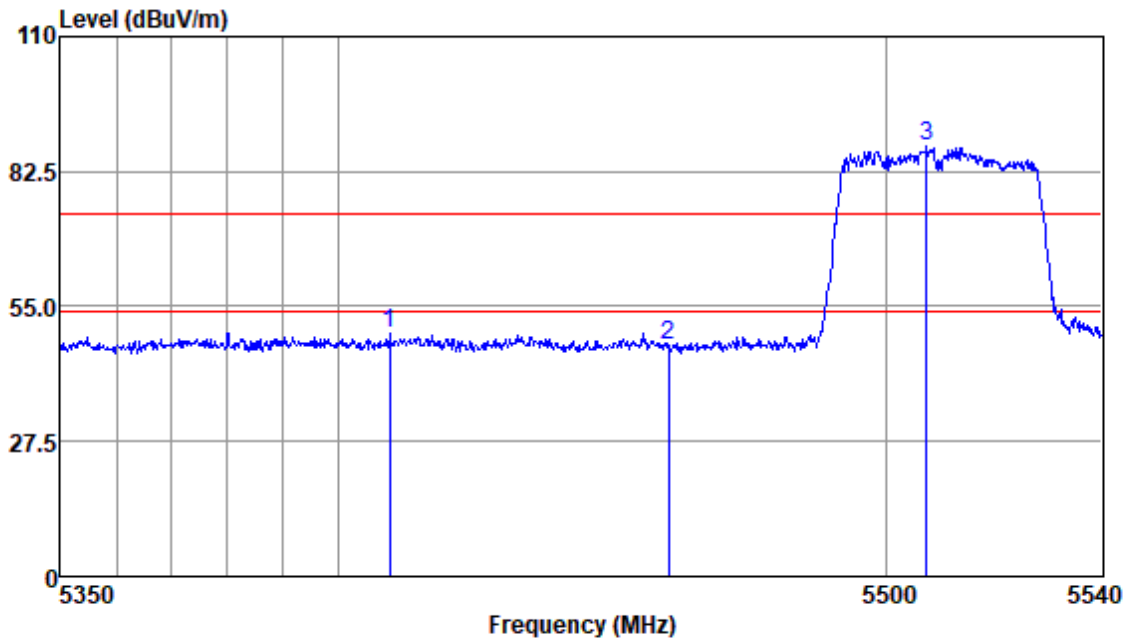
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
5412.91	47.73	34.68	3.73	36.95	49.19	74.00	-24.81 Peak
5460.00	45.79	34.64	3.65	36.97	47.11	74.00	-26.89 Peak
5511.27	93.15	34.69	3.61	36.98	94.47	74.00	20.47 Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

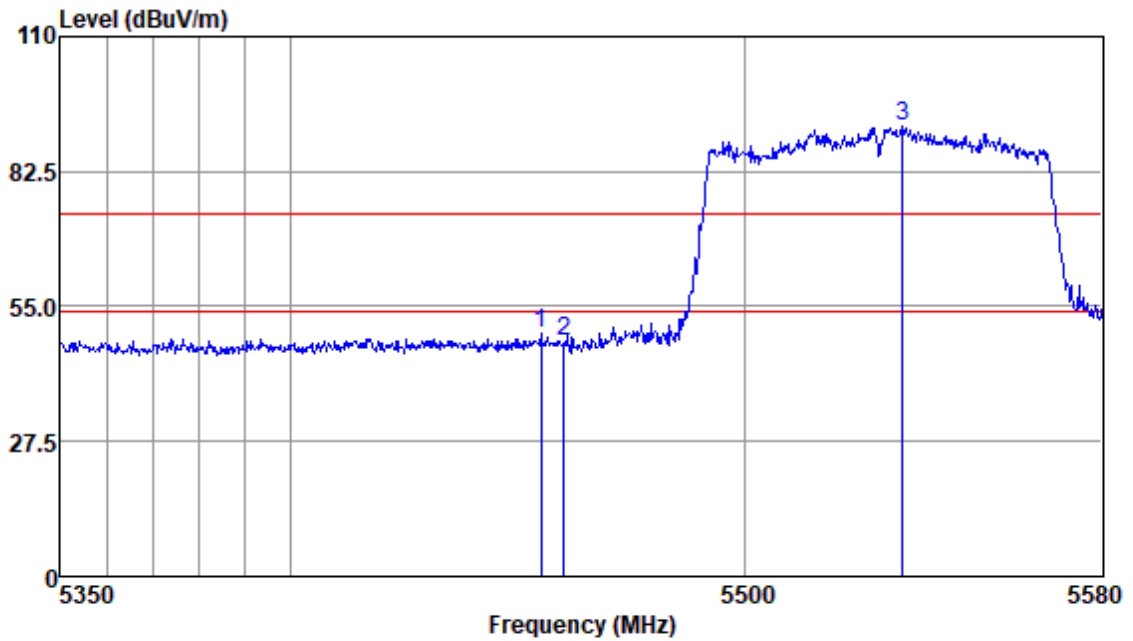
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB
5409.33	48.20	34.68	3.73	36.95	49.66	74.00	-24.34 Peak
5460.00	45.62	34.64	3.65	36.97	46.94	74.00	-27.06 Peak
5507.42	86.29	34.69	3.60	36.98	87.60	74.00	13.60 Peak

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



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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

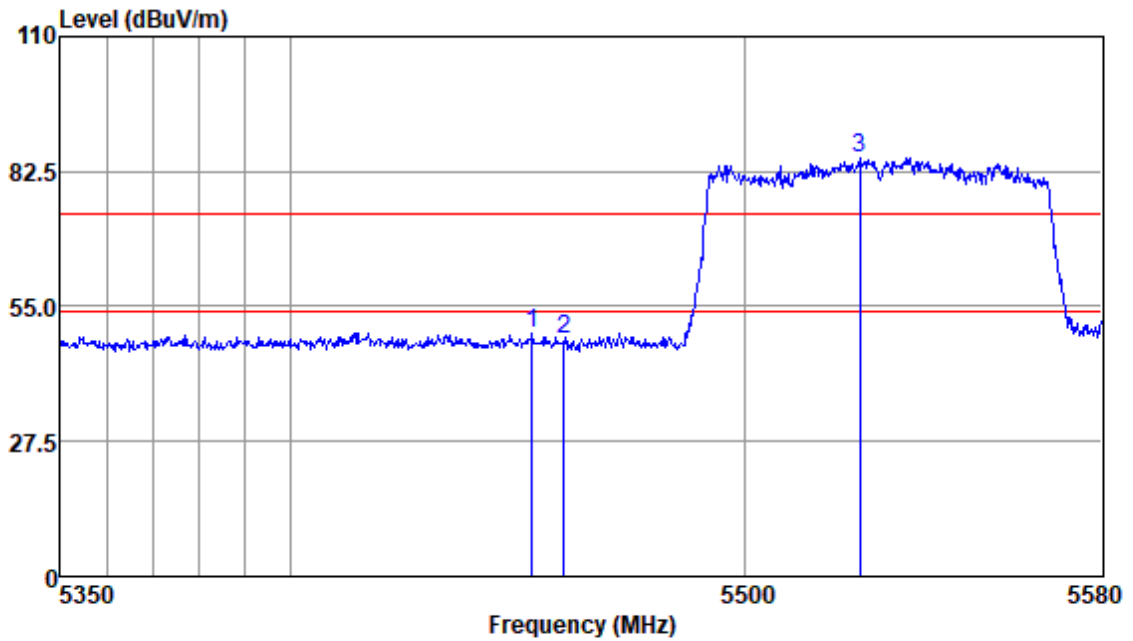
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5454.83	48.00	34.64	3.65	36.97	49.32	74.00	-24.68	Peak
5460.00	46.51	34.64	3.65	36.97	47.83	74.00	-26.17	Peak
5535.09	90.46	34.69	3.62	36.99	91.78	74.00	17.78	Peak

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



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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :VERTICAL

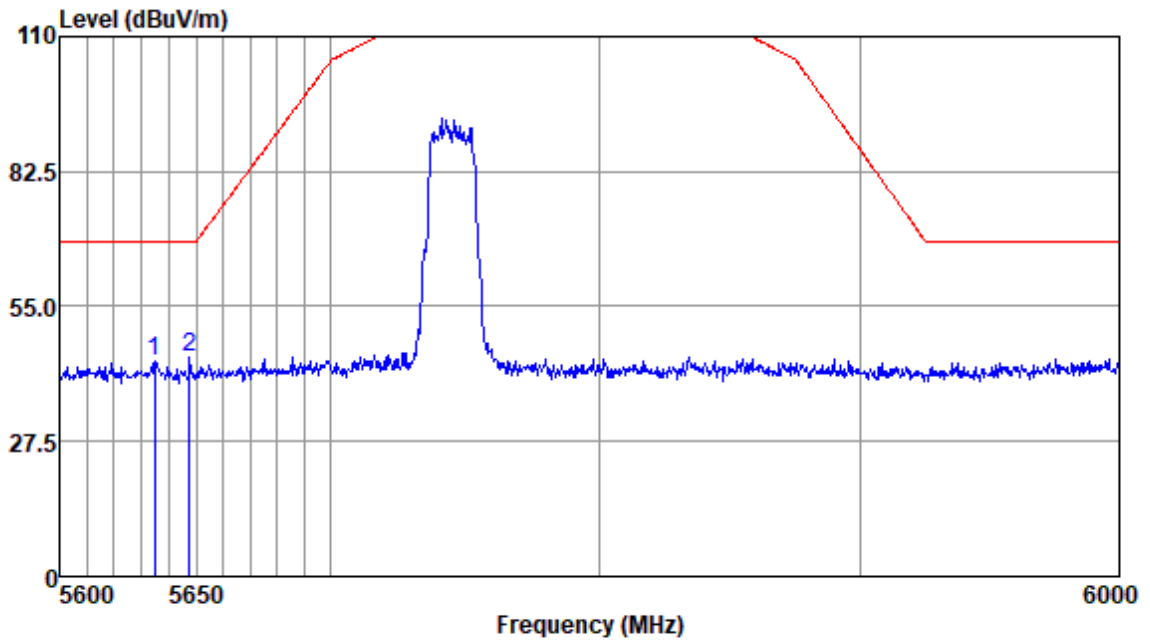
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
5452.99	48.31	34.64	3.65	36.97	49.63	74.00	-24.37 Peak
5460.00	46.87	34.64	3.65	36.97	48.19	74.00	-25.81 Peak
5525.54	83.97	34.69	3.61	36.98	85.29	74.00	11.29 Peak

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



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



Antenna Polarity :HORIZONTAL

Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5634.88	42.31	34.90	3.66	37.00	43.87	68.20	-24.33	Peak
5647.73	43.05	34.94	3.67	37.00	44.66	68.20	-23.54	Peak

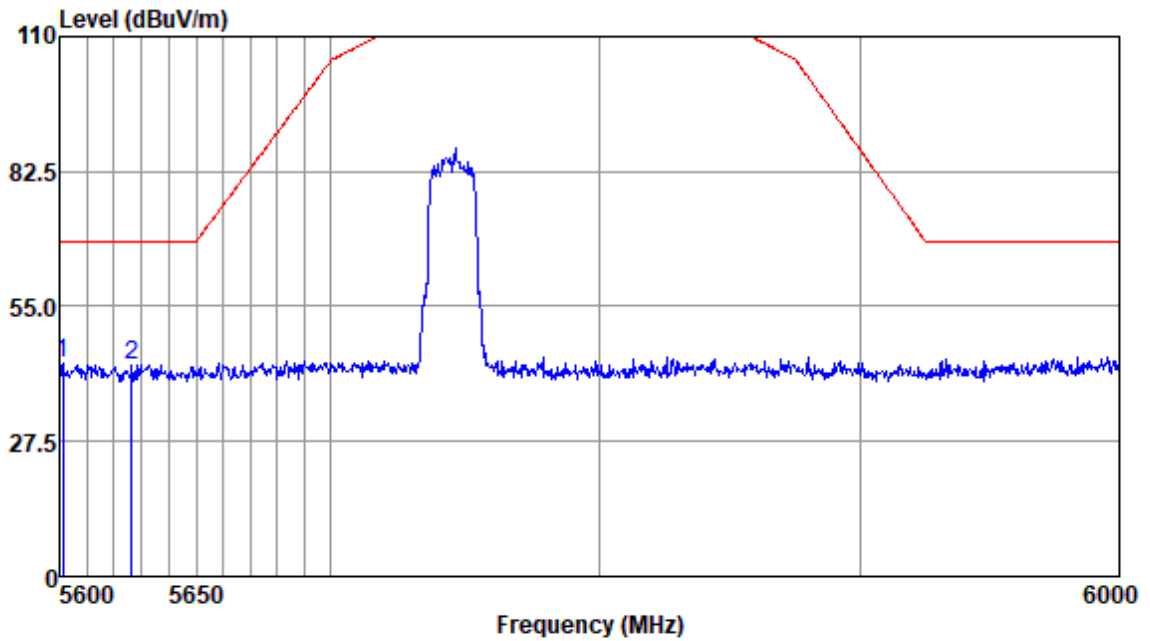
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

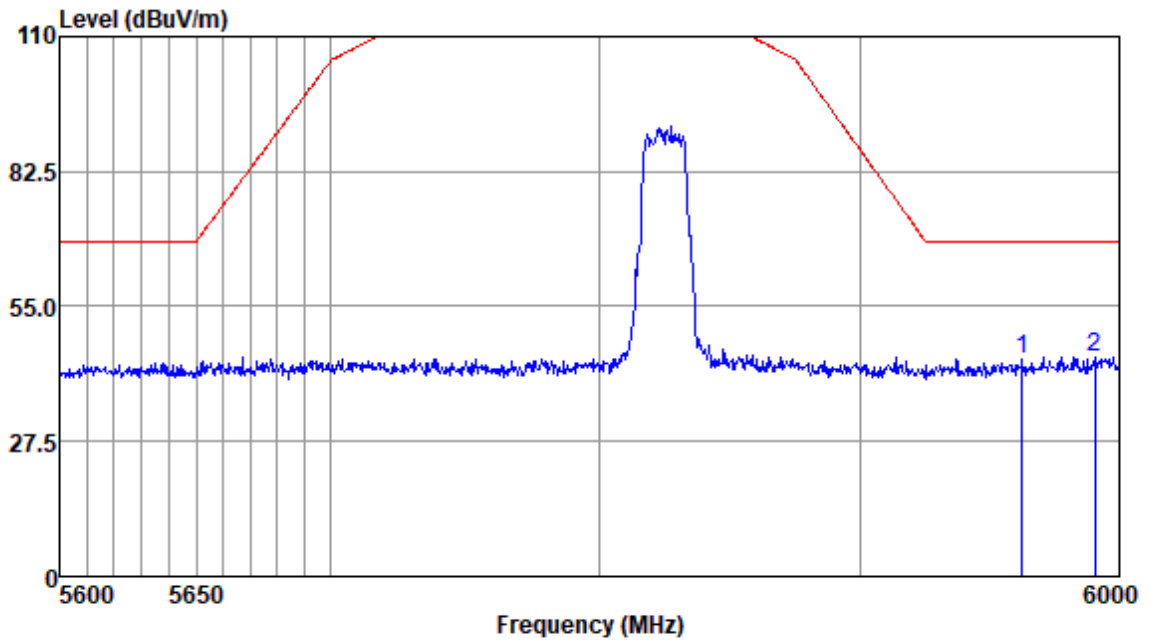
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
Level	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dB	
5601.16	41.75	34.83	3.65	37.00	43.23	68.20 -24.97 Peak
5626.33	41.66	34.90	3.66	37.00	43.22	68.20 -24.98 Peak

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



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



Antenna Polarity :HORIZONTAL

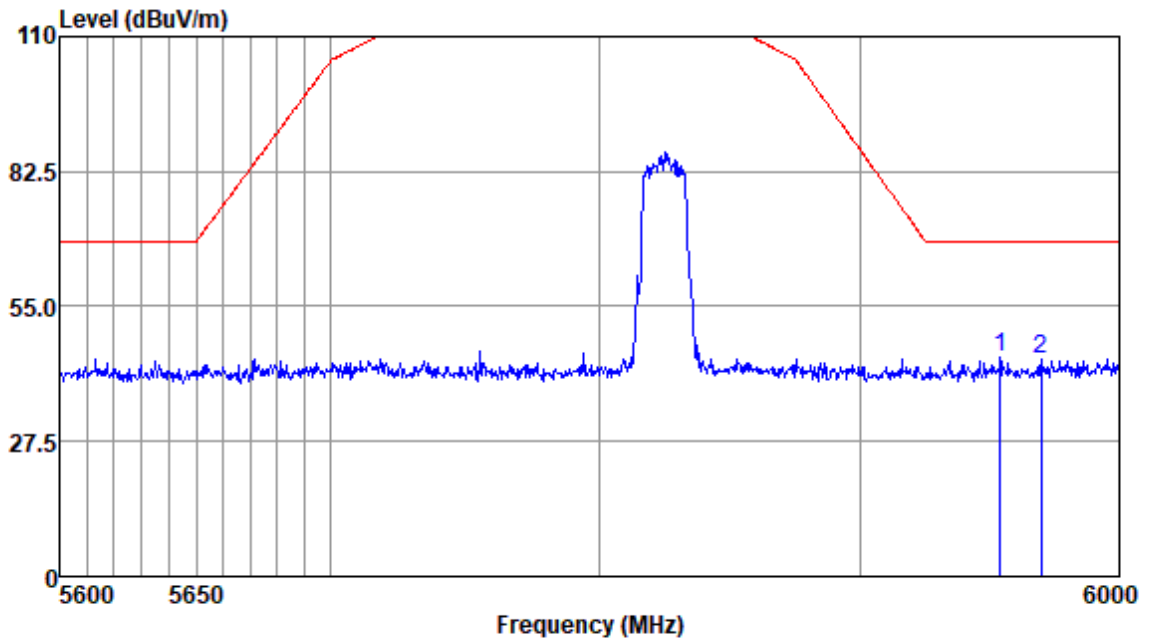
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5962.04	42.23	35.26	3.82	37.05	44.26	68.20	-23.94	Peak
5990.49	42.62	35.26	3.83	37.06	44.65	68.20	-23.55	Peak

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



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Mode:e; Polarization:Vertical; Modulation:a; 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	
5953.82	42.59	35.26	3.82	37.05	44.62	68.20	-23.58	Peak
5969.45	42.30	35.26	3.82	37.05	44.33	68.20	-23.87	Peak

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

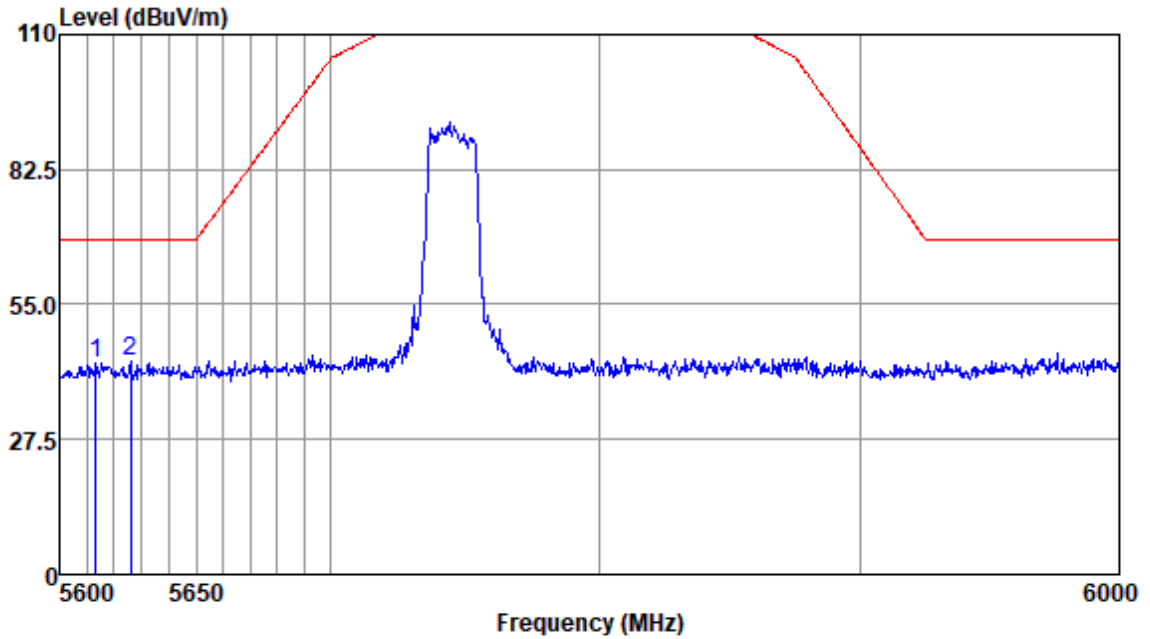


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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	
5613.15	41.63	34.87	3.66	37.00	43.16	68.20	-25.04	Peak	
5625.95	41.90	34.90	3.66	37.00	43.46	68.20	-24.74	Peak	

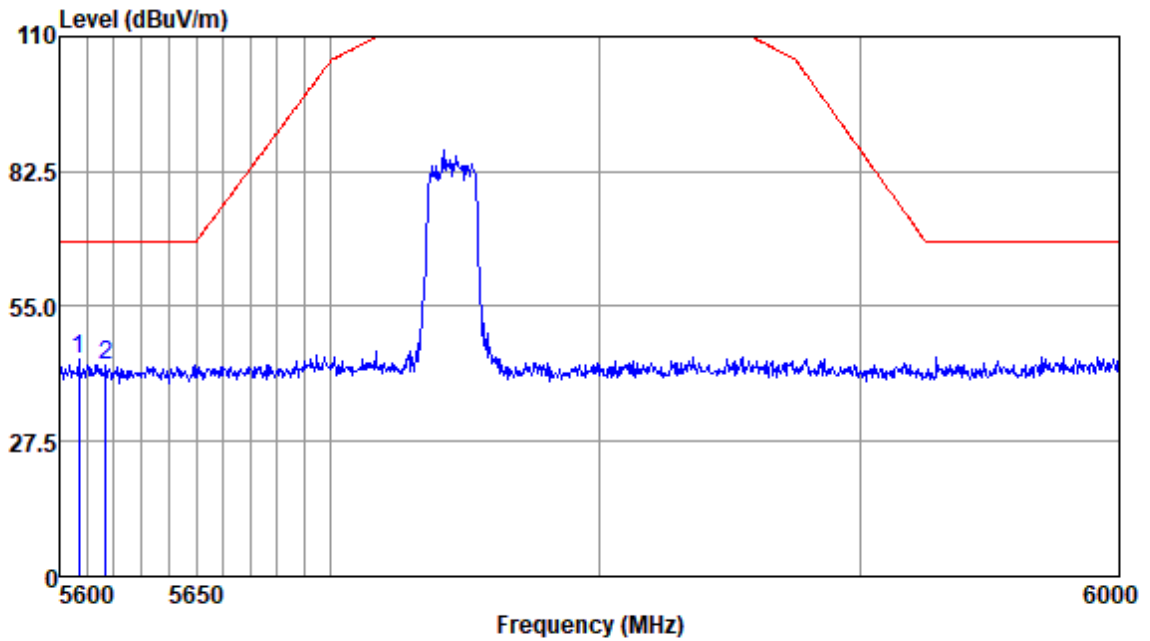
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
Level	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dB	
5606.96	42.86	34.83	3.65	37.00	44.34	68.20 -23.86 Peak
5617.03	41.64	34.87	3.66	37.00	43.17	68.20 -25.03 Peak

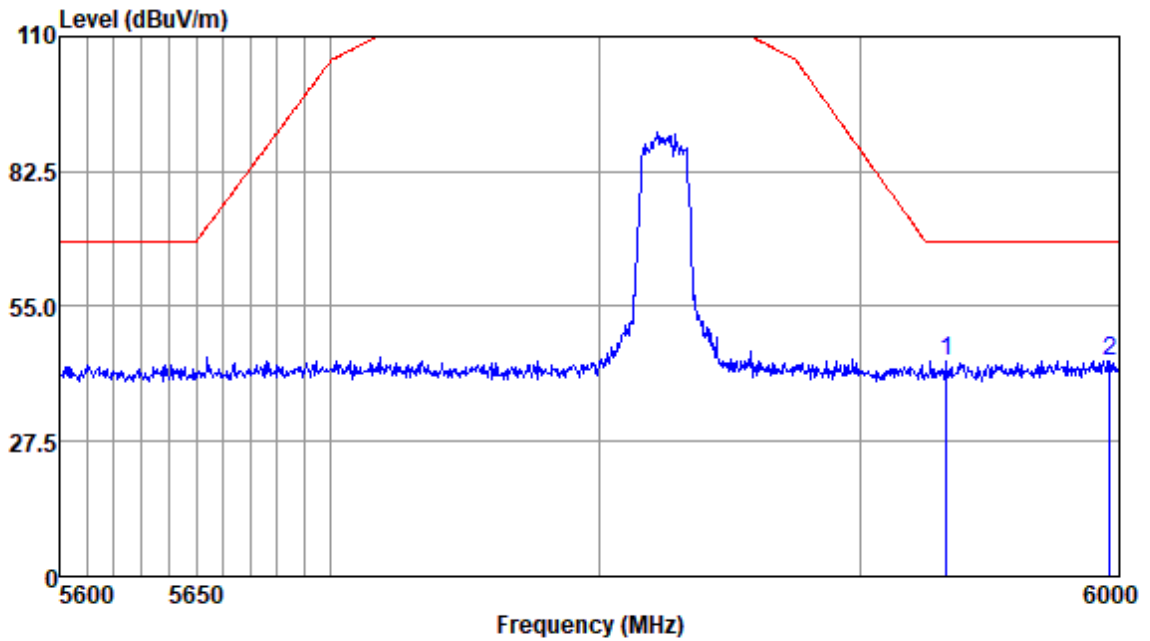
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

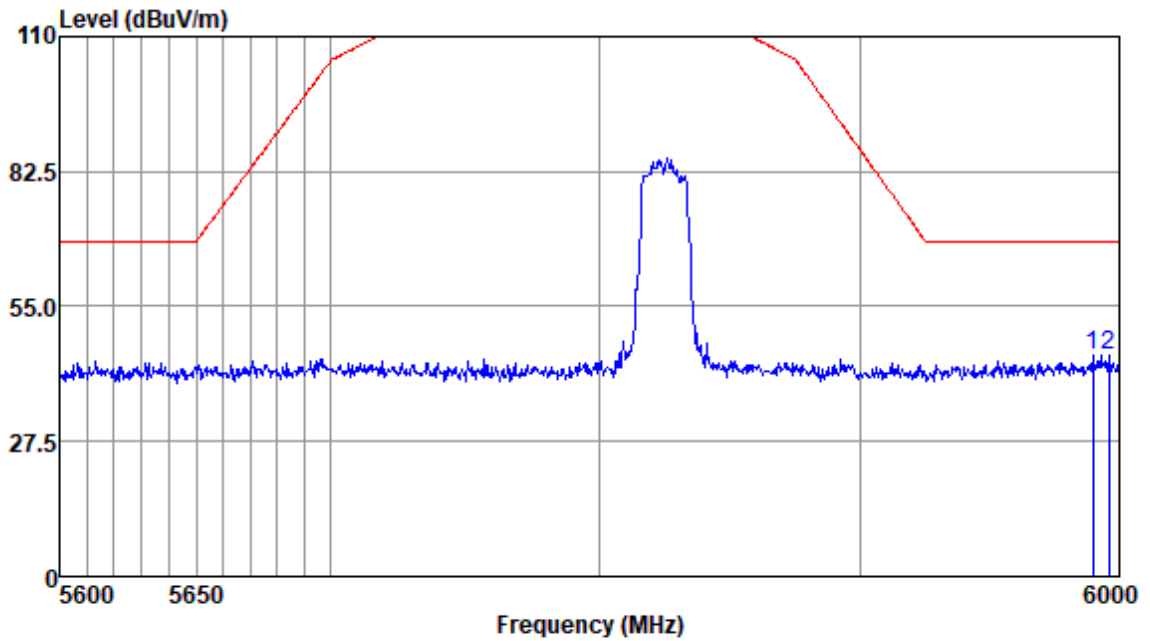
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
5932.90	41.78	35.27	3.81	37.05	43.81	68.20	-24.39 Peak
5996.28	41.94	35.26	3.84	37.06	43.98	68.20	-24.22 Peak

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



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



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	
5989.66	43.03	35.26	3.83	37.06	45.06	68.20	-23.14	Peak
5995.86	43.06	35.26	3.84	37.06	45.10	68.20	-23.10	Peak

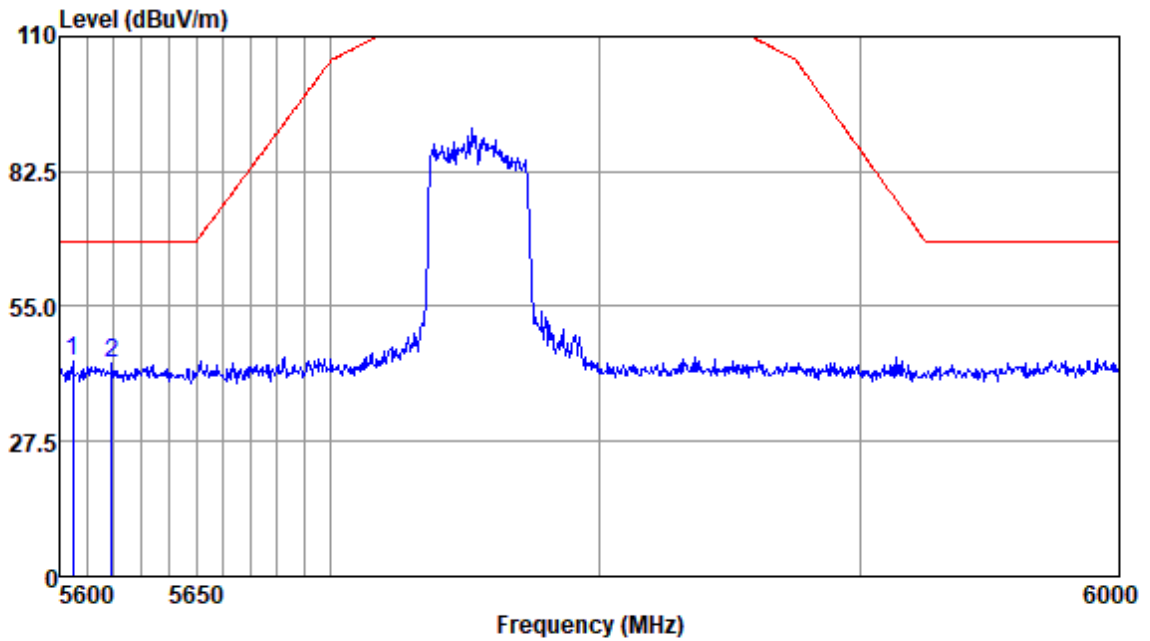
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
Level	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dB	
5605.03	42.49	34.83	3.65	37.00	43.97	68.20 -24.23 Peak
5618.96	41.97	34.87	3.66	37.00	43.50	68.20 -24.70 Peak

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



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark		
Level	Factor	Loss	Level	Line	Limit			
dBuv	dB/m	dB	dB	dBuv/m	dB			
5617.41	41.94	34.87	3.66	37.00	43.47	68.20	-24.73	Peak
5622.45	41.18	34.87	3.66	37.00	42.71	68.20	-25.49	Peak

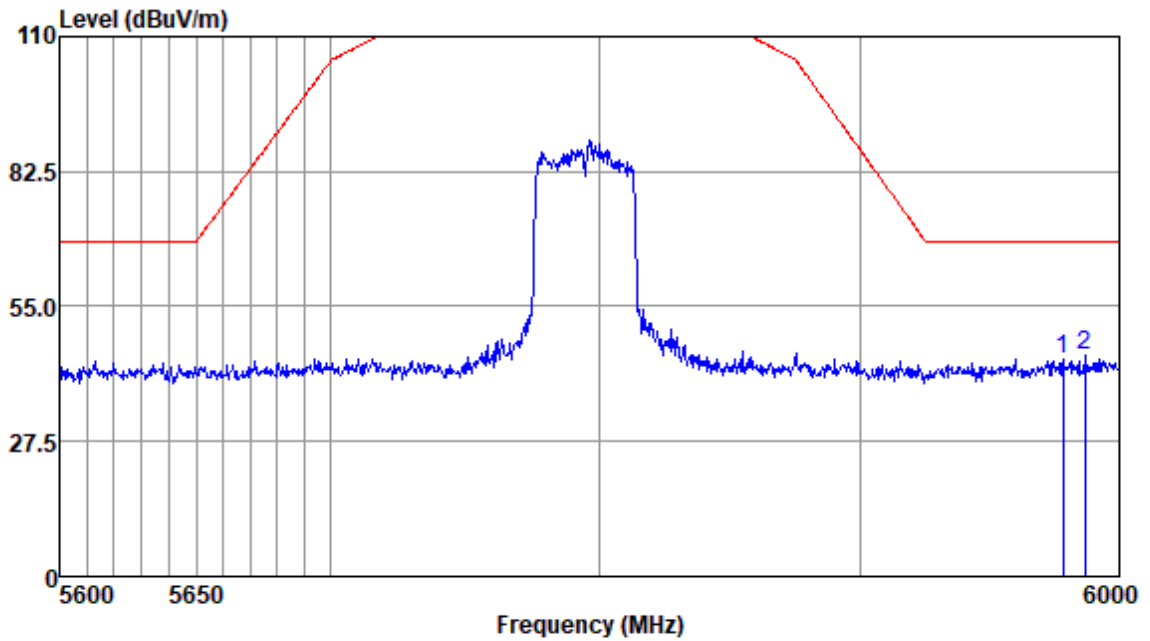
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5978.10	42.39	35.26	3.83	37.06	44.42	68.20	-23.78	Peak
5986.77	43.17	35.26	3.83	37.06	45.20	68.20	-23.00	Peak

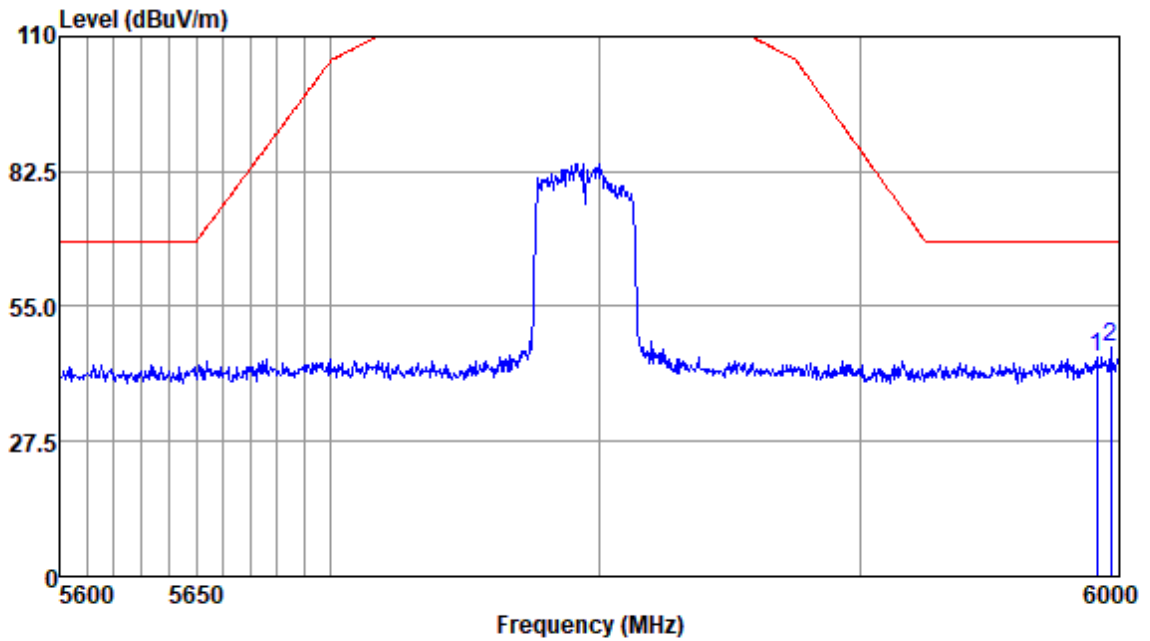
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



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	
5991.31	42.65	35.26	3.83	37.06	44.68	68.20	-23.52	Peak
5996.69	44.74	35.26	3.84	37.06	46.78	68.20	-21.42	Peak

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

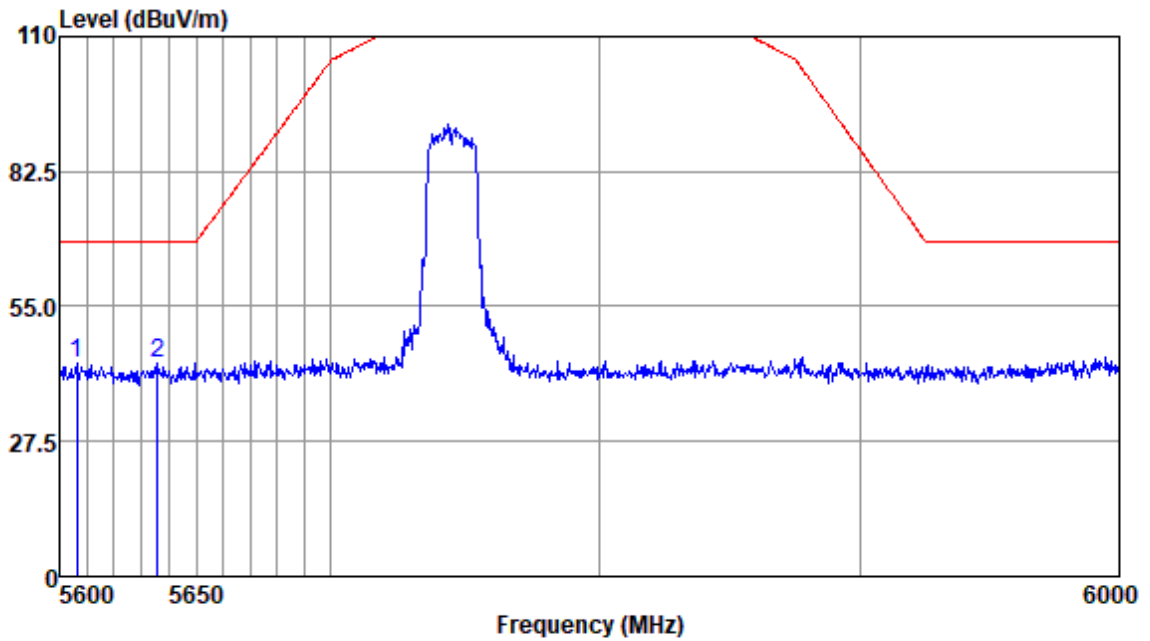


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



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	
5606.19	41.93	34.83	3.65	37.00	43.41	68.20	-24.79 Peak
5636.05	41.93	34.90	3.66	37.00	43.49	68.20	-24.71 Peak

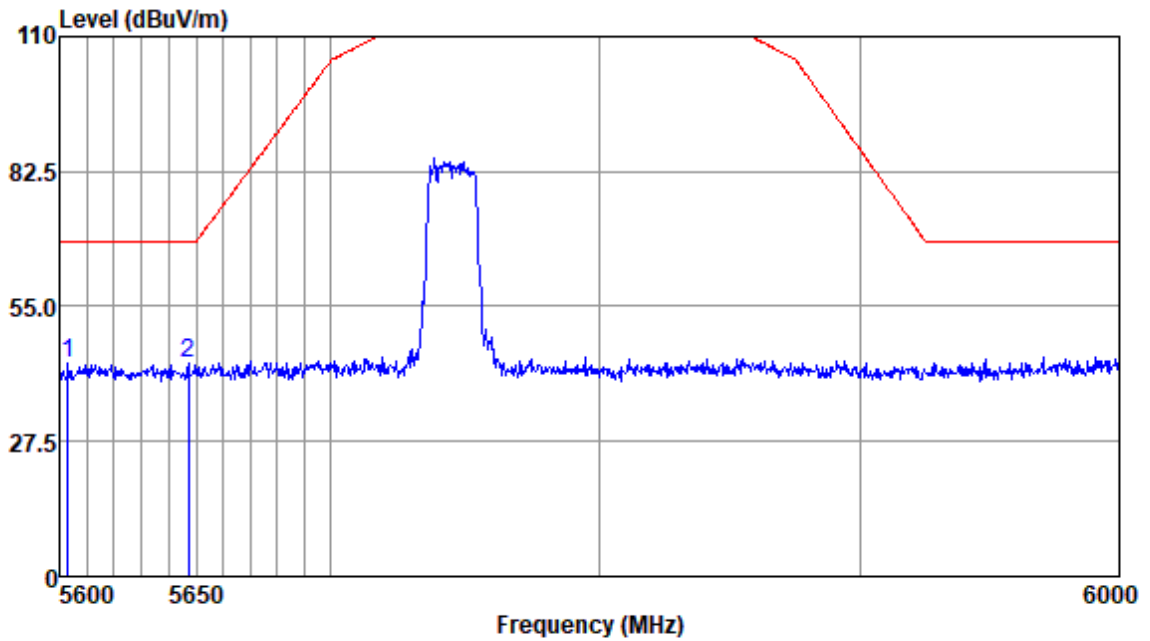
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :VERTICAL

Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
Level	Factor	Loss	Level	Line	Limit	
dBuv	dB/m	dB	dB	dBuv/m	dB	
5603.09	41.87	34.83	3.65	37.00	43.35	68.20 -24.85 Peak
5647.34	41.85	34.94	3.67	37.00	43.46	68.20 -24.74 Peak

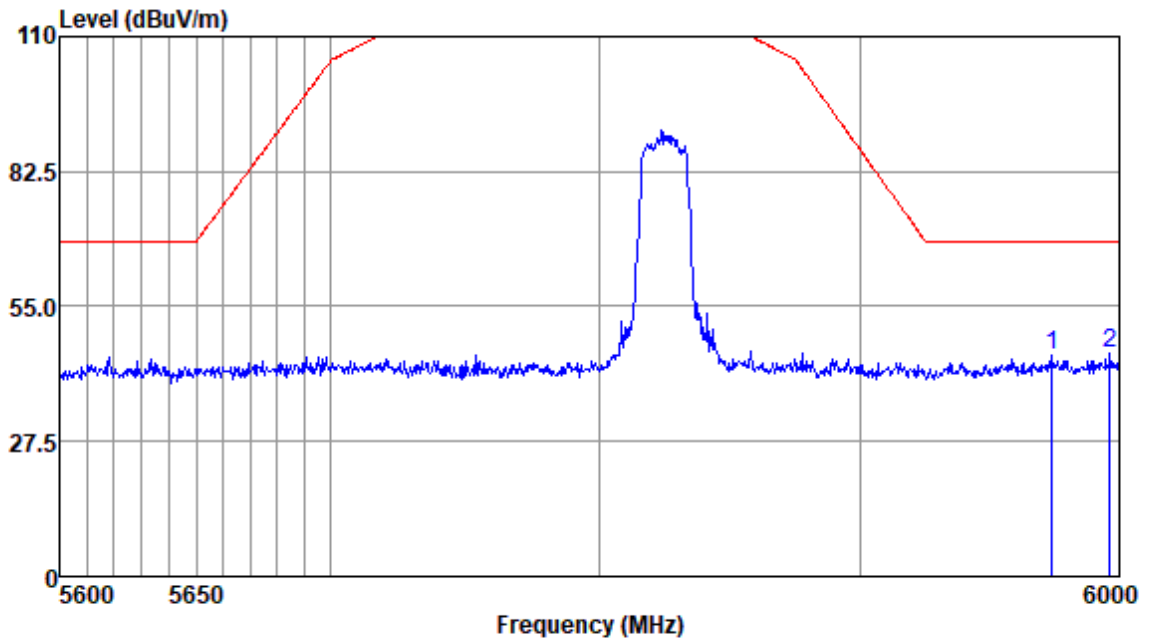
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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



Antenna Polarity :HORIZONTAL

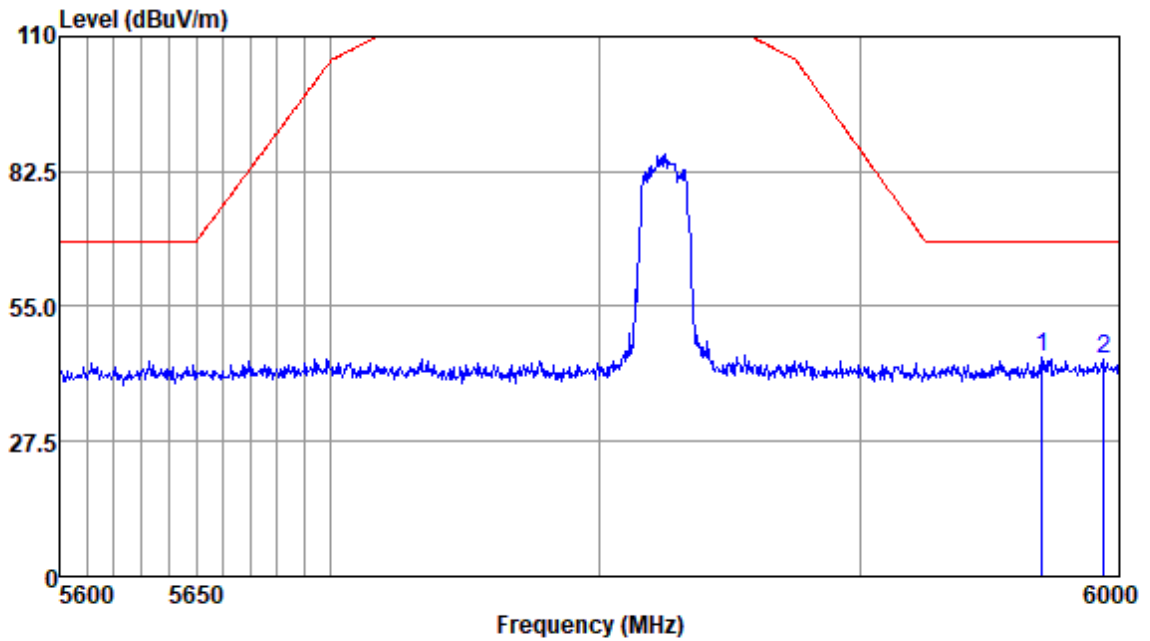
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5973.98	43.13	35.26	3.82	37.05	45.16	68.20	-23.04	Peak
5996.28	43.36	35.26	3.84	37.06	45.40	68.20	-22.80	Peak

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



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



Antenna Polarity :VERTICAL

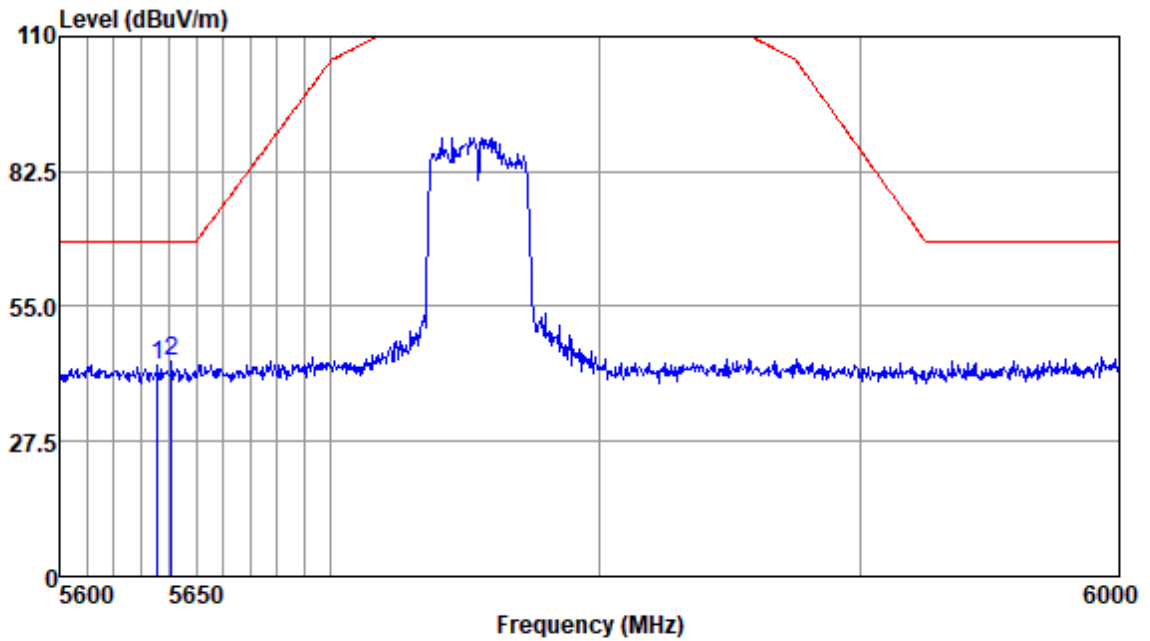
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dB	
5969.86	42.72	35.26	3.82	37.05	44.75	68.20	-23.45 Peak
5993.79	42.06	35.26	3.84	37.06	44.10	68.20	-24.10 Peak

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



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

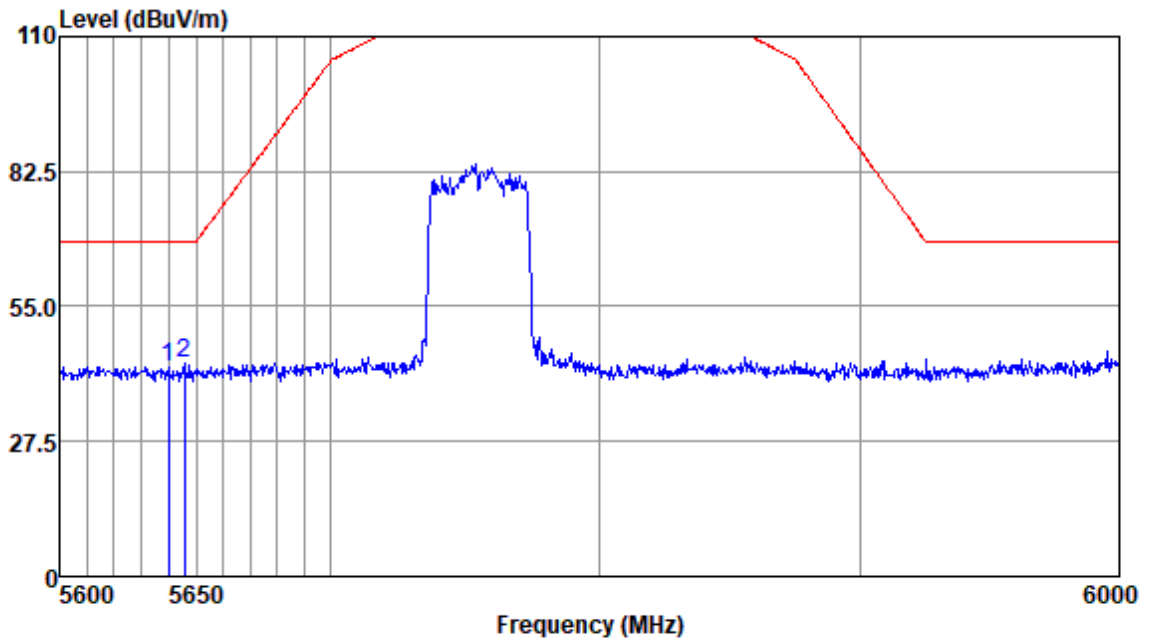
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5636.05	41.36	34.90	3.66	37.00	42.92	68.20	-25.28	Peak
5641.10	42.09	34.94	3.67	37.00	43.70	68.20	-24.50	Peak

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



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

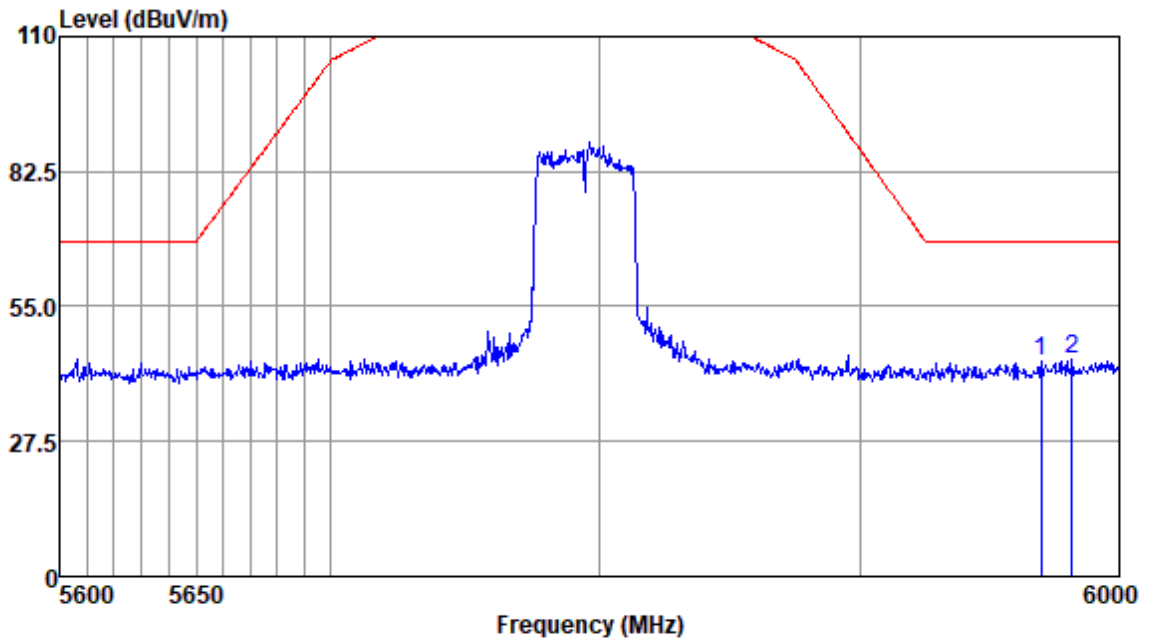
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5639.94	41.19	34.90	3.66	37.00	42.75	68.20	-25.45	Peak
5645.78	41.95	34.94	3.67	37.00	43.56	68.20	-24.64	Peak

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



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

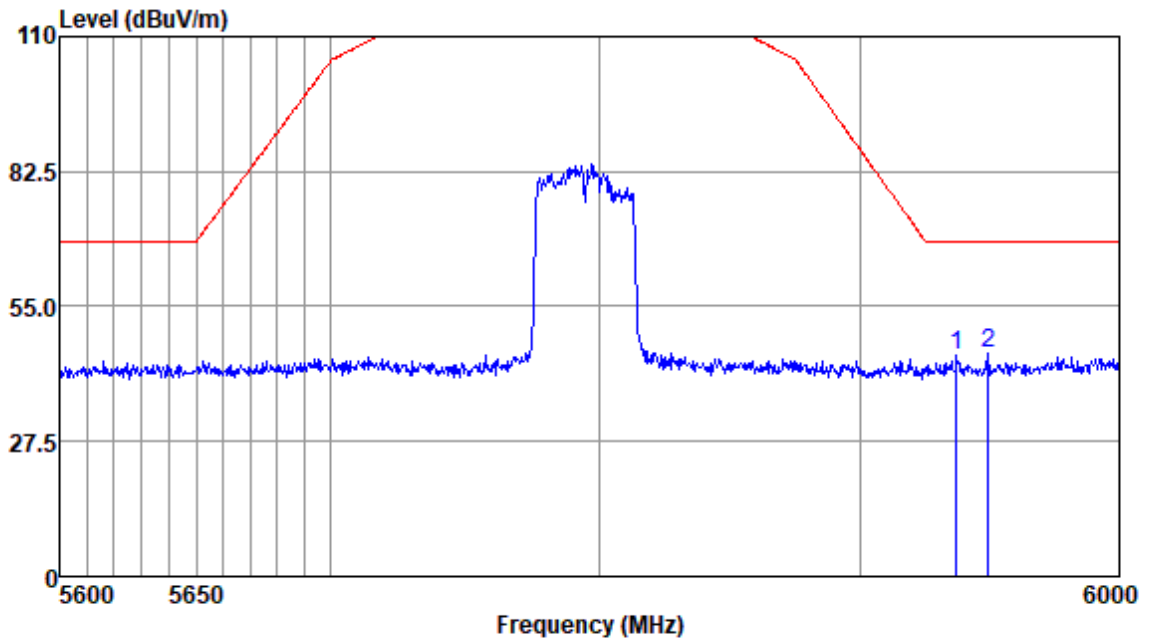
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5969.45	41.89	35.26	3.82	37.05	43.92	68.20	-24.28	Peak
5981.40	42.01	35.26	3.83	37.06	44.04	68.20	-24.16	Peak

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



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



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	
5936.59	43.15	35.27	3.81	37.05	45.18	68.20	-23.02	Peak
5948.89	43.36	35.26	3.82	37.05	45.39	68.20	-22.81	Peak

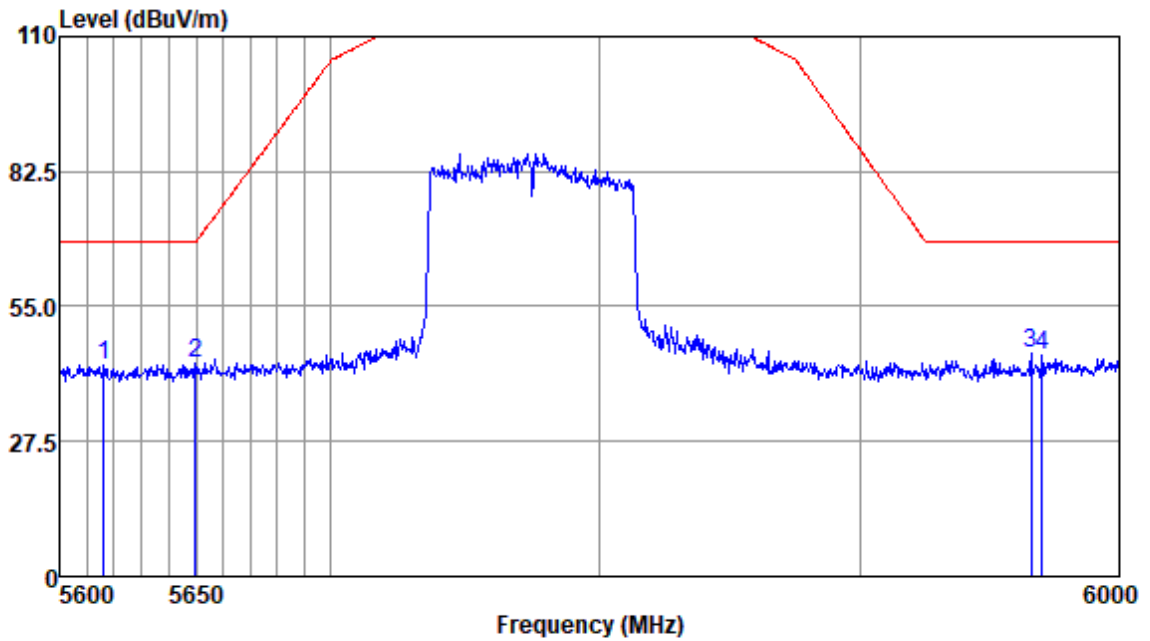
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



Antenna Polarity :HORIZONTAL

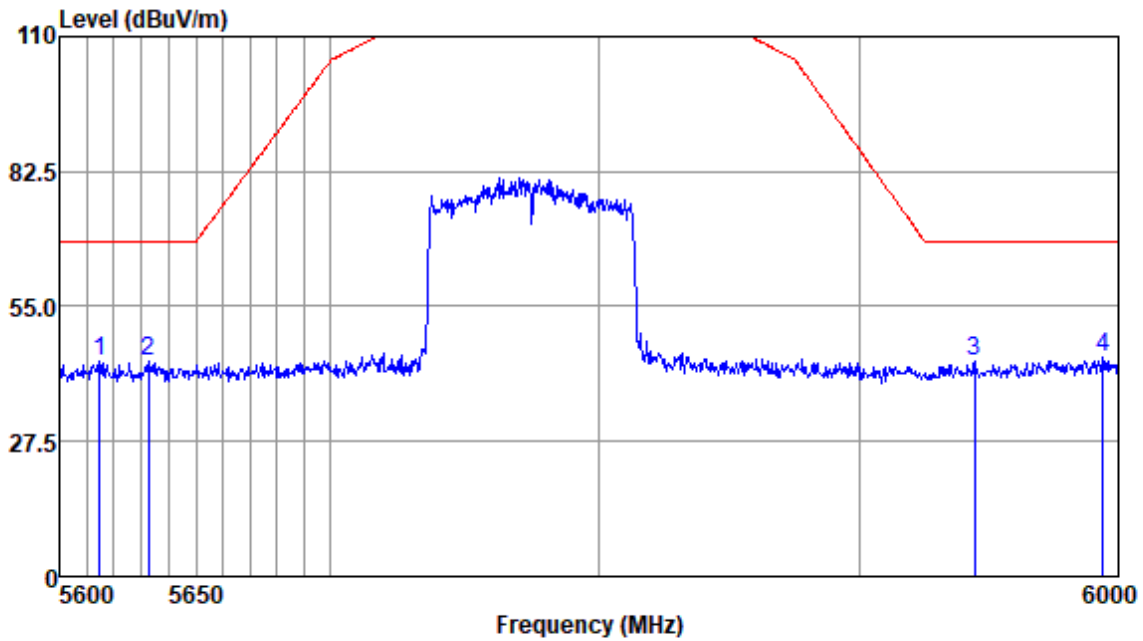
Read Freq	Antenna Cable Preamp Emission Limit Over	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5616.25	41.62	34.87	3.66	37.00	43.15	68.20	-25.05	Peak
5649.67	41.65	34.94	3.67	37.00	43.26	68.20	-24.94	Peak
5965.74	43.35	35.26	3.82	37.05	45.38	68.20	-22.82	Peak
5969.86	42.99	35.26	3.82	37.05	45.02	68.20	-23.18	Peak

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



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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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	
5614.70	42.32	34.87	3.66	37.00	43.85	68.20	-24.35	Peak
5632.55	42.31	34.90	3.66	37.00	43.87	68.20	-24.33	Peak
5943.97	41.89	35.26	3.82	37.05	43.92	68.20	-24.28	Peak
5993.79	42.66	35.26	3.84	37.06	44.70	68.20	-23.50	Peak

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



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## 7.10 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart C 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 7.10.1 E.U.T. Operation

#### Operating Environment:

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

Test mode: b: Charge + TX mode (Band 1)\_ Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: Charge + TX mode (Band 2A)\_ Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

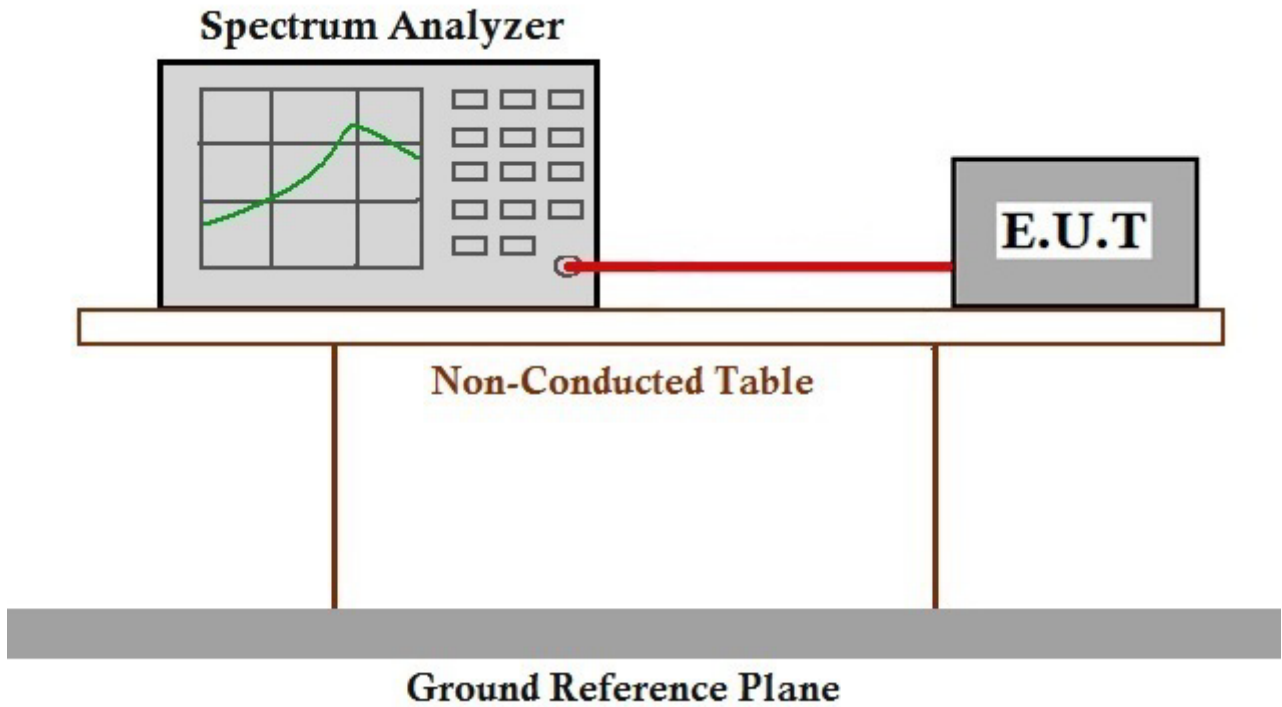
d: Charge + TX mode (Band 2C)\_ Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: Charge + TX mode (Band 3)\_ Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100071202



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 9 EUT Constructional Details

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

- End of the Report -



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