



## TEST REPORT

**Application No.:** GZCR2108020804AT  
**Applicant:** Thundercomm Technology Co.,Ltd  
**Address of Applicant:** Building 4, No. 99, Data Valley Middle Road, Xiantao District, Yubei District, Chongqing, China.  
**Manufacturer:** Thundercomm Technology Co.,Ltd  
**Address of Manufacturer:** Building 4, No. 99, Middle Road, Xiantao Data, Yubei District, Chongqing  
**Factory:** ZEGNA DAIDONG LIMITED CORPORATION  
**Address of Factory:** No. 41 Gangjian Road, Changping Town, Dongguan City, Guangdong Province, China.  
**Equipment Under Test (EUT):**  
**EUT Name:** EB5 Edge AI Box  
**Model No.:** EB5  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2021-08-02  
**Date of Test:** 2021-08-02 to 2021-08-13  
**Date of Issue:** 2021-08-26

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

Kobe Jian  
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-27		Original

Authorized for issue by				
				
		Lily Kuang/Project Engineer		
				
		Ricky Liu/Reviewer		



## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5 & 11.12.1	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6 & 11.12.1	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6 & 11.12.1	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

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

	Adapter
Power supply:	Model: HKA09019047-6U Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 19.0V, 4.74A, 90.06W AC 120V, 60Hz or AC 240V, 50Hz
Test voltage:	Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);
Cable(s):	DC cable:145cm with a ferrite core AC cable:137cm unshielded
Internal source:	More than 108MHz 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Type of Modulation:	802.11n (HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operating Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2462MHz 802.11n/ax(HT40): 2422MHz to 2452MHz
Channel Number:	802.11b/g/11n/ax(HT20): 11 Channels 802.11n/ax(HT40): 7 Channels
Channels Step:	Channels with 5MHz step
Sample Type:	Fixed devices
Antenna Type:	Monopole antenna Antenna1/Antenna2: 3.46dBi
Antenna Gain:	Note: Two antennas can simultaneous transmission. This Devices transmitting with Cyclic Delay Diversity (CDD).

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.12\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Conducted Peak Output Power	$\pm 0.75\text{dB}$
Power Spectrum Density	$\pm 2.84\text{dB}$
Conducted Band Edges Measurement	$\pm 0.75\text{dB}$
Conducted Spurious Emissions	$\pm 0.75\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	$\pm 5.06\text{dB}$ (3m); $\pm 4.46\text{dB}$ (10m)
Radiated Spurious Emissions (Above 1GHz)	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)

### 4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.



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## 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

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

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

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

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

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

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

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

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

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2020-07-31	2021-07-30
				2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08



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Radiated Spurious Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021/5/26	2022/5/25

Radiated Spurious Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020/9/9	2022/9/8
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2020-07-31	2021-07-30
				2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna connector is a RP-SMA type that comply with Part15.203, the best case gain of the antenna1/antenna2/ is 3.46dBi.

Please refer to internal photos.



## 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

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.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C

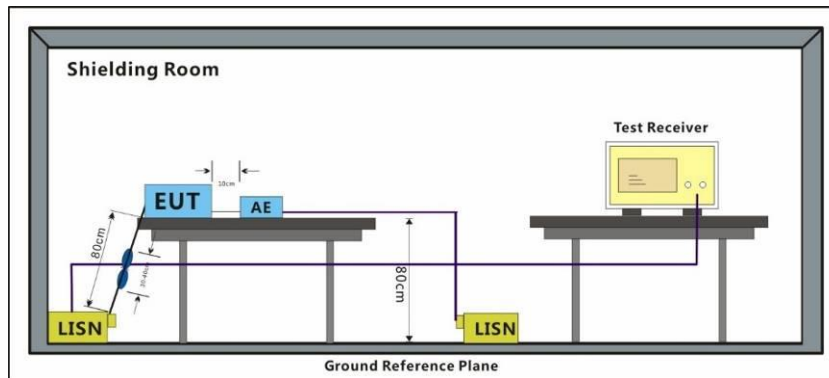
Humidity: 61.4 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

### 7.1.3 Test Setup Diagram



#### 7.1.4 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  $50\Omega/50\mu\text{H} + 50\Omega$  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: Measured Level=Read Level+ Cable Loss+ LISN Factor



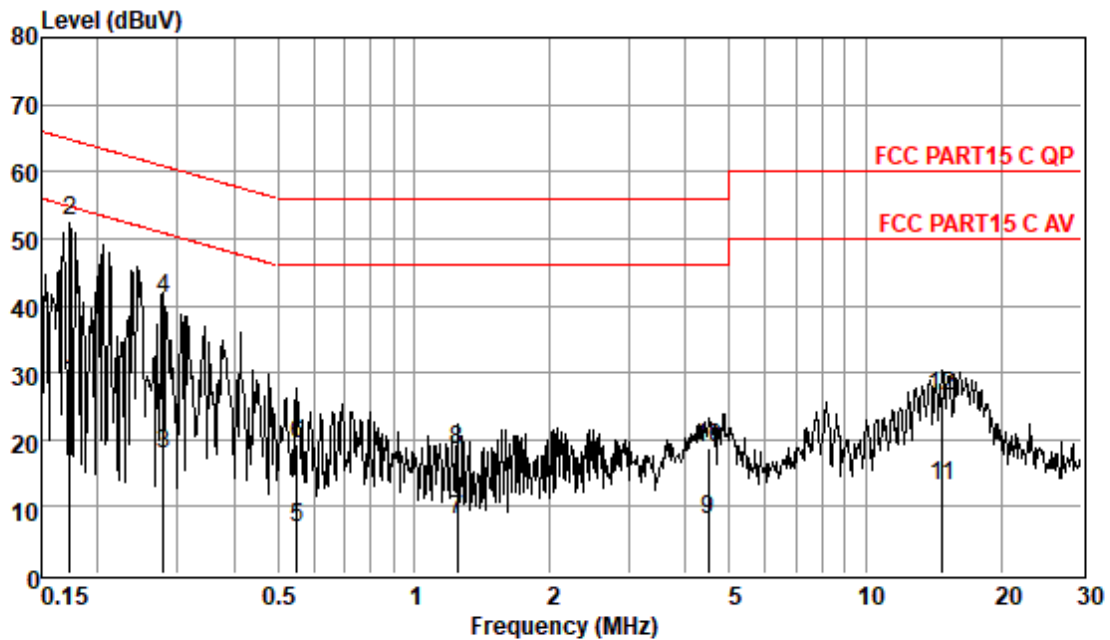
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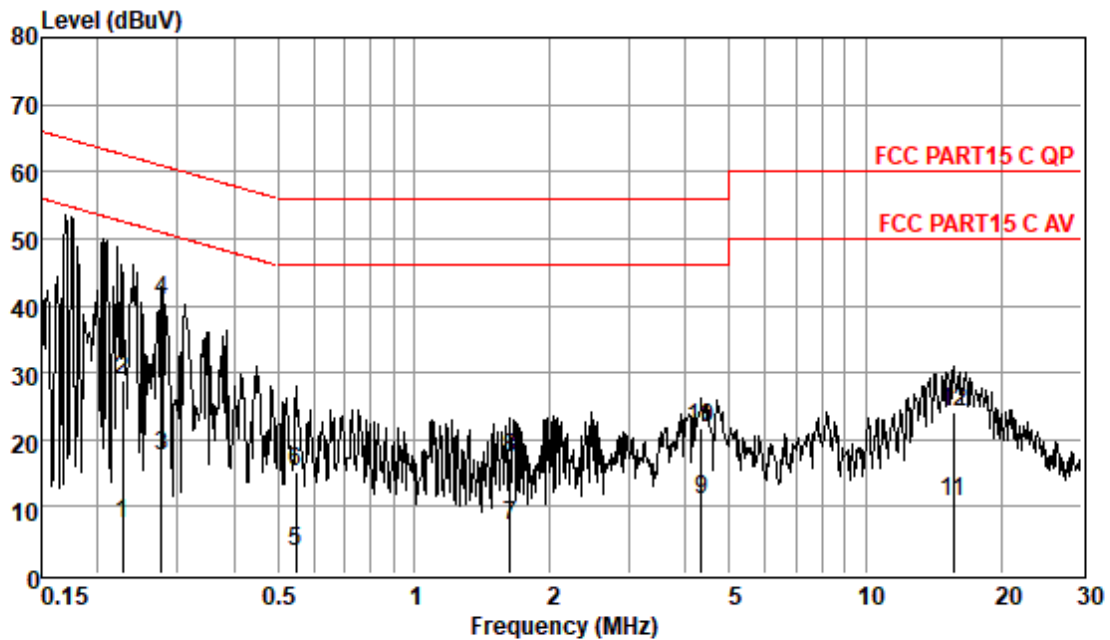
Test Mode: 01; Line: Live line;



Pol : LINE  
Mode :  
Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.17	18.97	0.06	9.62	28.65	54.81	-26.16	Average
0.17	43.00	0.06	9.62	52.68	64.81	-12.13	QP
0.28	8.29	0.06	9.62	17.97	50.85	-32.88	Average
0.28	31.47	0.06	9.62	41.15	60.85	-19.70	QP
0.55	-2.72	0.07	9.63	6.98	46.00	-39.02	Average
0.55	9.75	0.07	9.63	19.45	56.00	-36.55	QP
1.25	-1.58	0.09	9.61	8.12	46.00	-37.88	Average
1.25	8.73	0.09	9.61	18.43	56.00	-37.57	QP
4.48	-1.72	0.17	9.64	8.09	46.00	-37.91	Average
4.48	9.01	0.17	9.64	18.82	56.00	-37.18	QP
14.75	2.94	0.31	9.74	12.99	50.00	-37.01	Average
14.75	16.52	0.31	9.74	26.57	60.00	-33.43	QP

Test Mode: 01; Line: Neutral Line;



Pol : NEUTRAL  
Mode :  
Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.23	-2.27	0.06	9.55	7.34	52.57	-45.23	Average
0.23	19.17	0.06	9.55	28.78	62.57	-33.79	QP
0.28	7.95	0.06	9.54	17.55	50.94	-33.39	Average
0.28	31.15	0.06	9.54	40.75	60.94	-20.19	QP
0.55	-6.19	0.07	9.54	3.42	46.00	-42.58	Average
0.55	5.67	0.07	9.54	15.28	56.00	-40.72	QP
1.64	-2.66	0.10	9.55	6.99	46.00	-39.01	Average
1.64	7.46	0.10	9.55	17.11	56.00	-38.89	QP
4.34	1.15	0.17	9.56	10.88	46.00	-35.12	Average
4.34	11.95	0.17	9.56	21.68	56.00	-34.32	QP
15.63	0.67	0.32	9.64	10.63	50.00	-39.37	Average
15.63	14.19	0.32	9.64	24.15	60.00	-35.85	QP



### 7.2 Minimum 6dB Bandwidth

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

#### 7.2.1 E.U.T. Operation

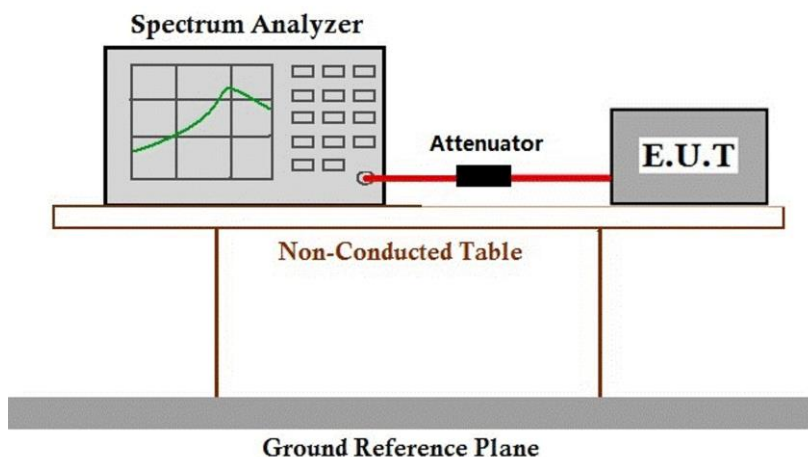
Operating Environment:

Temperature: 24.7 °C Humidity: 46.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate @ 16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

### 7.3 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

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

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

Operating Environment:

Temperature: 24.7 °C

Humidity: 46.3 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

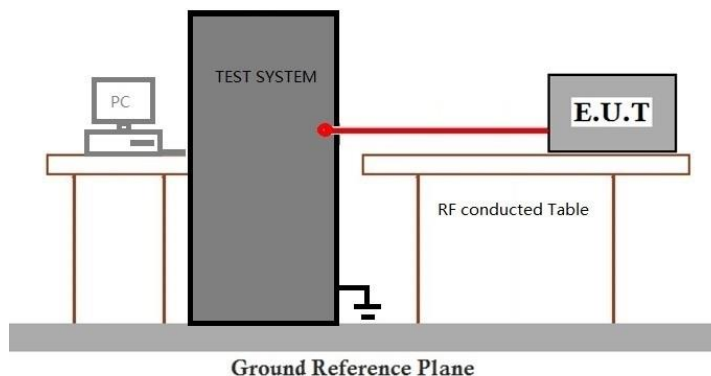
Pre-scan / Final test	Mode Code
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Description

Final test	01
------------	----

TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate @ 16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

### 7.4 Power Spectrum Density

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

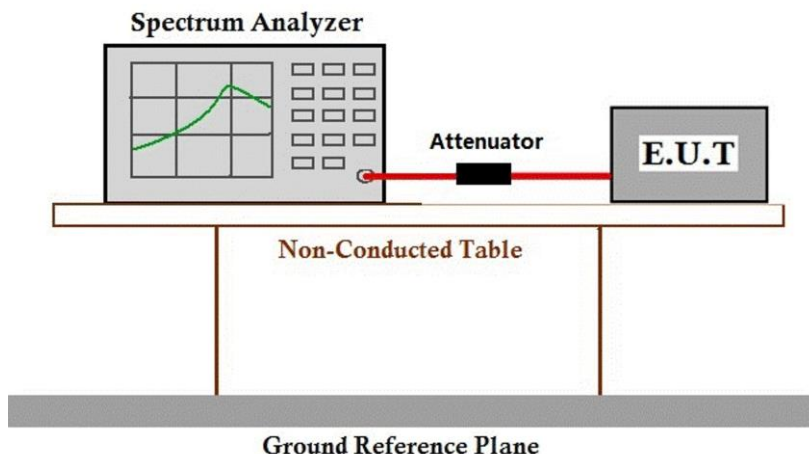
#### 7.4.1 E.U.T. Operation

Operating Environment:			
Temperature:	24.7 °C	Humidity:	46.3 % RH
		Atmospheric Pressure:	1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate @ 16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



### 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 11.13.3.2  
Limit:

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

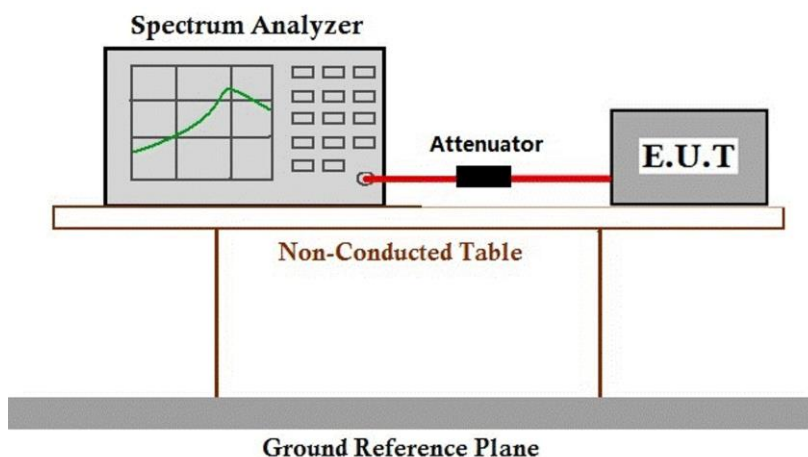
#### 7.5.1 E.U.T. Operation

Operating Environment:  
Temperature: 24.7 °C Humidity: 46.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate @ 16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

## 7.6 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 46.3 % RH

Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

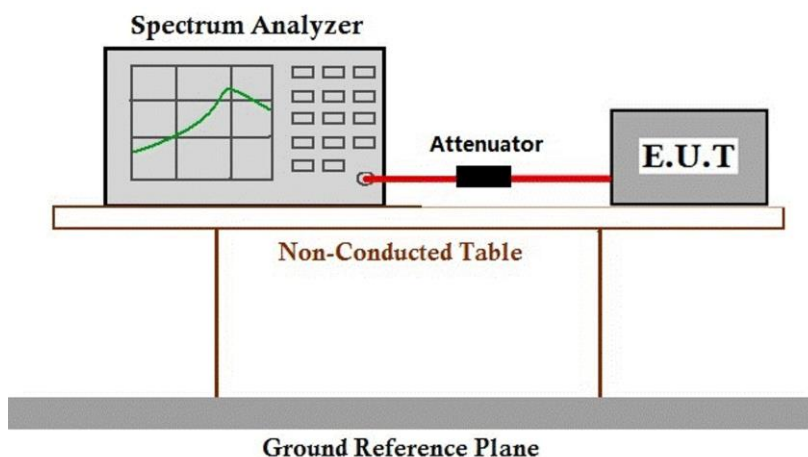
Pre-scan / Mode  
Final test Code

Description

Final test 01

TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate @ 16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



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#### 7.6.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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

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

**7.7.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.5 °C

Humidity: 54.2 % RH

Atmospheric Pressure: 1010 mbar

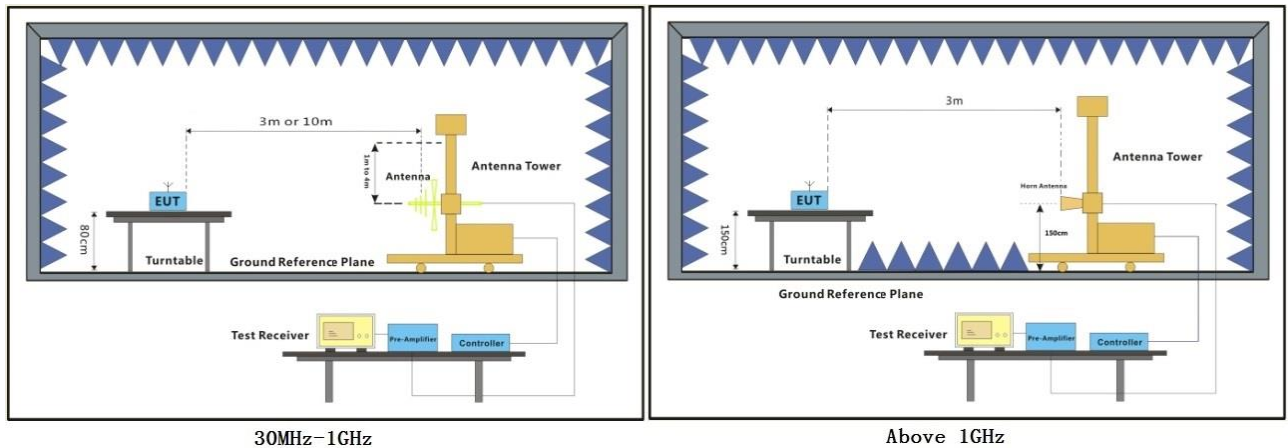
**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	01	
------------	----	--

TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

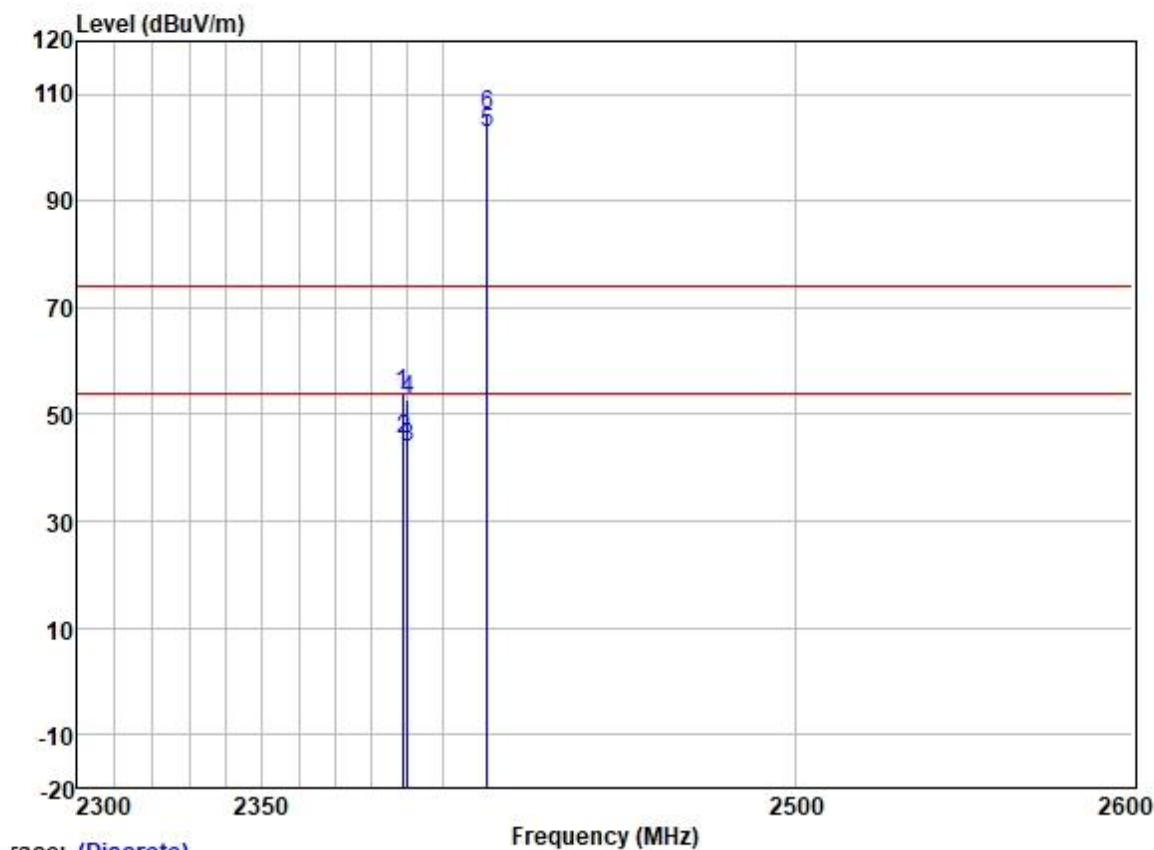
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

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

Note: All average values corresponding to peaks are measured, only the frequency of the maximum average is recorded in the report;

Test Mode: 01; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2388.395	60.69	27.33	3.48	37.59	53.91	74.00	-20.09	HORIZONTAL	Peak
2	2388.879	52.18	27.33	3.48	37.59	45.40	54.00	-8.60	HORIZONTAL	Average
3	2390.000	50.51	27.33	3.48	37.59	43.73	54.00	-10.27	HORIZONTAL	Average
4	2390.000	59.76	27.33	3.48	37.59	52.98	74.00	-21.02	HORIZONTAL	Peak
5 *	2412.000	109.62	27.38	3.47	37.59	102.88	54.00	48.88	HORIZONTAL	Average
6 *	2412.000	112.82	27.38	3.47	37.59	106.08	74.00	32.08	HORIZONTAL	Peak



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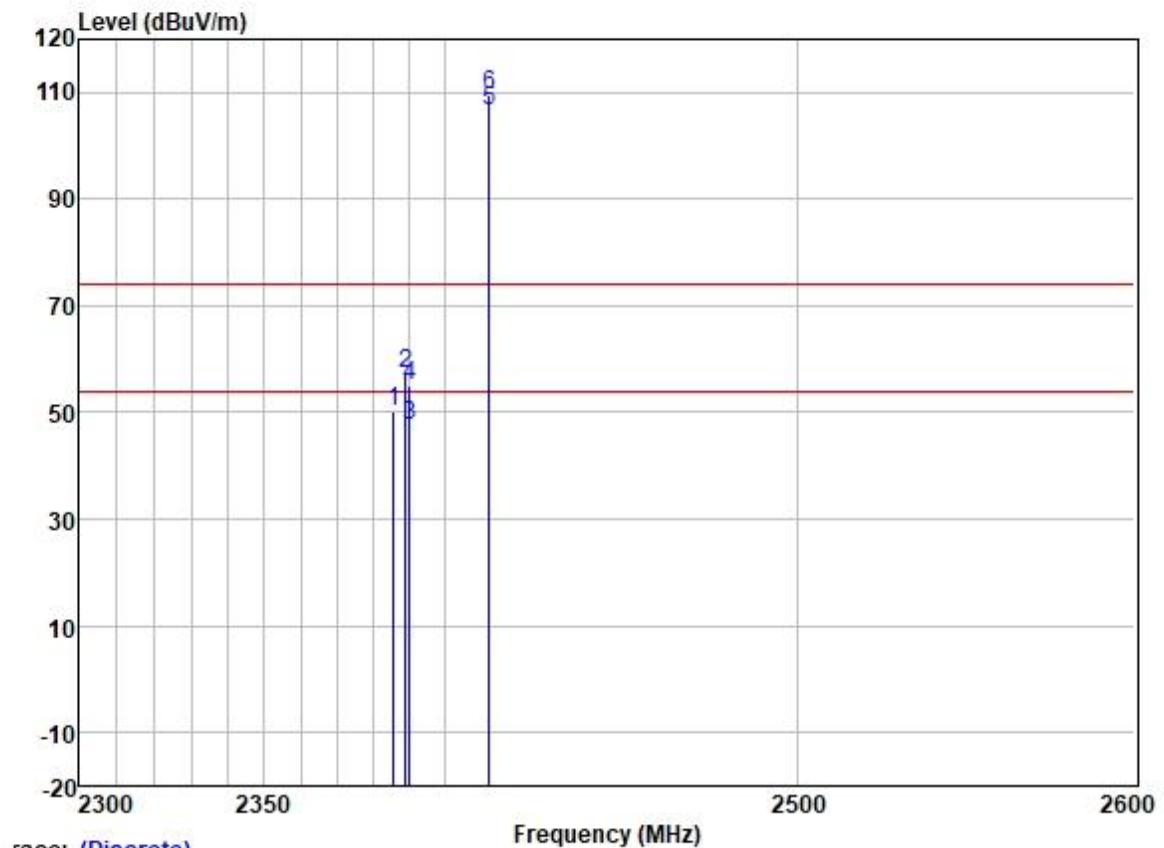
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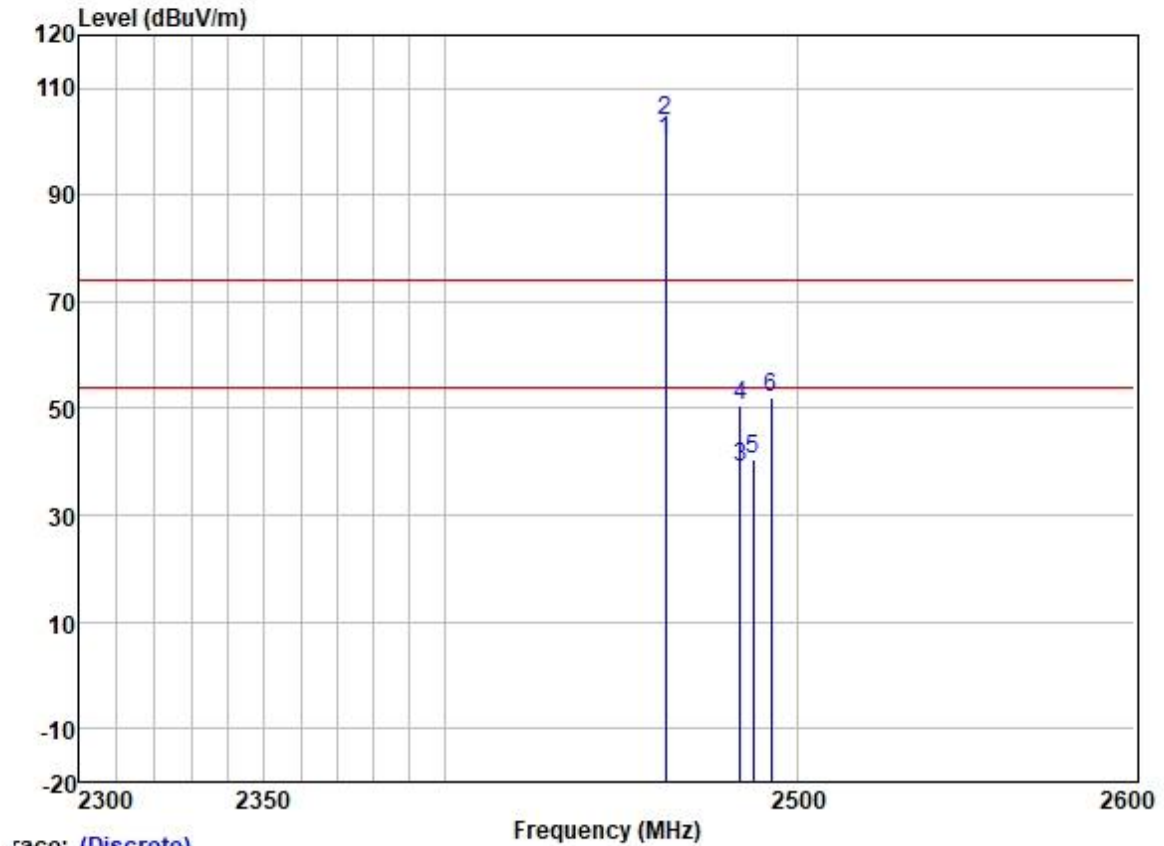
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2385.373	56.83	27.33	3.48	37.60	50.04	54.00	-3.96	VERTICAL
2	2388.879	64.01	27.33	3.48	37.59	57.23	74.00	-16.77	VERTICAL
3	2390.000	54.21	27.33	3.48	37.59	47.43	54.00	-6.57	VERTICAL
4	2390.000	61.88	27.33	3.48	37.59	55.10	74.00	-18.90	VERTICAL
5 *	2412.000	113.44	27.38	3.47	37.59	106.70	54.00	52.70	VERTICAL
6 *	2412.000	116.26	27.38	3.47	37.59	109.52	74.00	35.52	VERTICAL



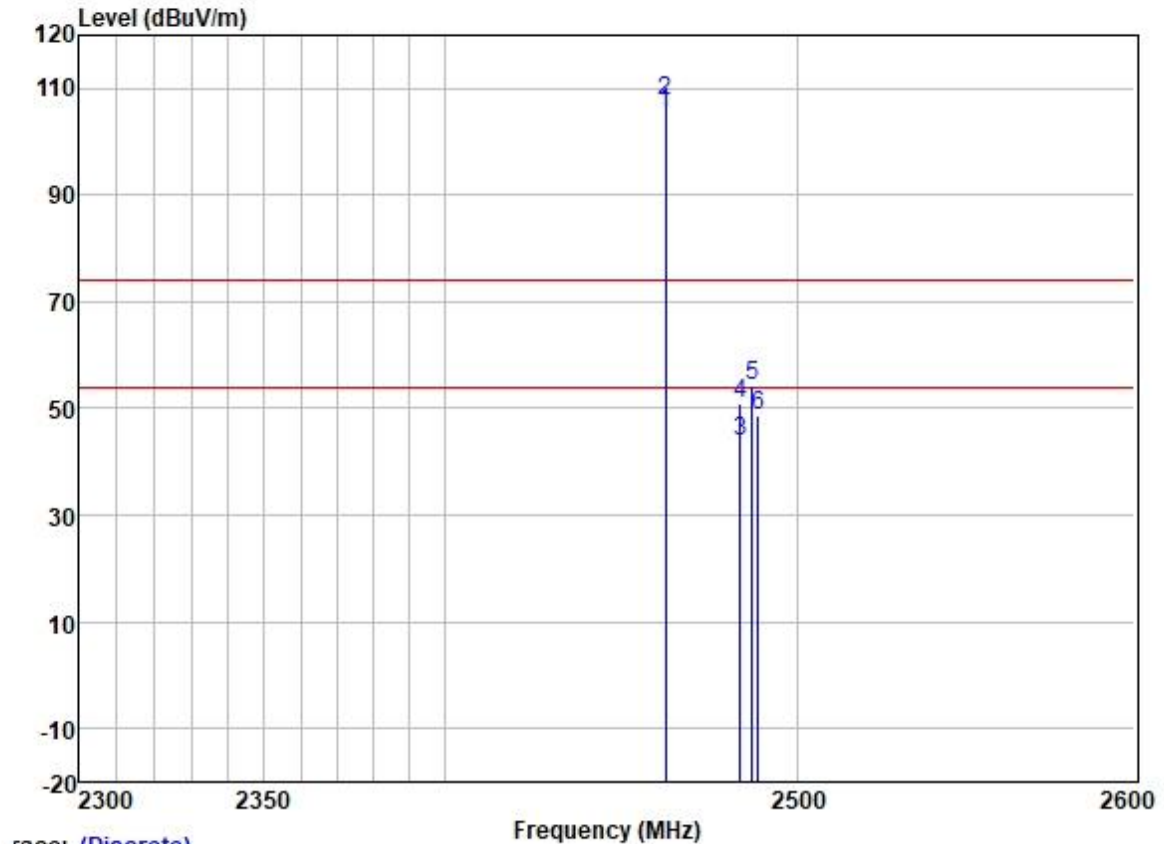
Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	106.82	27.45	3.50	37.58	100.19	54.00	46.19	HORIZONTAL	Average
2 *	2462.000	110.55	27.45	3.50	37.58	103.92	74.00	29.92	HORIZONTAL	Peak
3	2483.500	45.37	27.48	3.53	37.57	38.81	54.00	-15.19	HORIZONTAL	Average
4	2483.500	57.15	27.48	3.53	37.57	50.59	74.00	-23.41	HORIZONTAL	Peak
5	2487.254	47.07	27.48	3.53	37.57	40.51	54.00	-13.49	HORIZONTAL	Average
6	2492.436	58.74	27.49	3.47	37.56	52.14	74.00	-21.86	HORIZONTAL	Peak

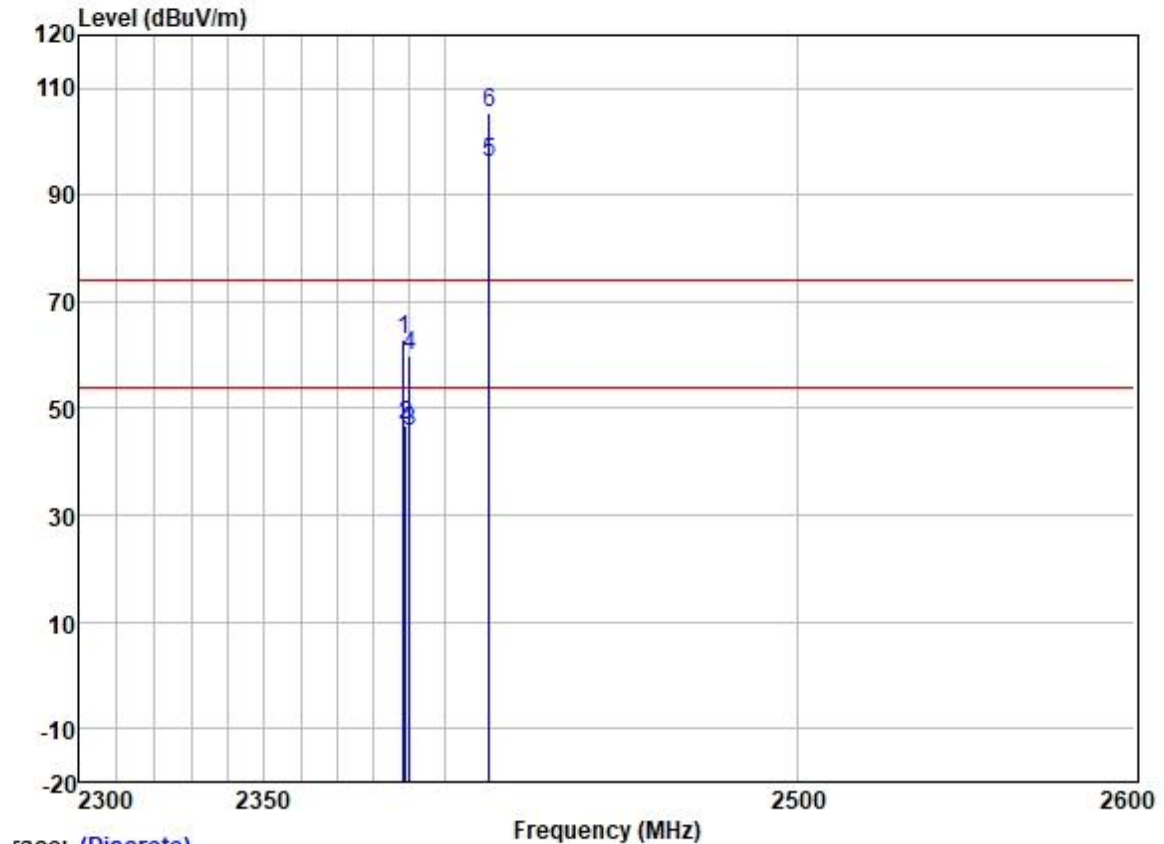
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	112.12	27.45	3.50	37.58	105.49	54.00	51.49	VERTICAL	Average
2 *	2462.000	114.16	27.45	3.50	37.58	107.53	74.00	33.53	VERTICAL	Peak
3	2483.500	50.22	27.48	3.53	37.57	43.66	54.00	-10.34	VERTICAL	Average
4	2483.500	57.43	27.48	3.53	37.57	50.87	74.00	-23.13	VERTICAL	Peak
5	2487.003	60.87	27.48	3.53	37.57	54.31	74.00	-19.69	VERTICAL	Peak
6	2488.662	55.09	27.48	3.53	37.56	48.54	54.00	-5.46	VERTICAL	Average

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

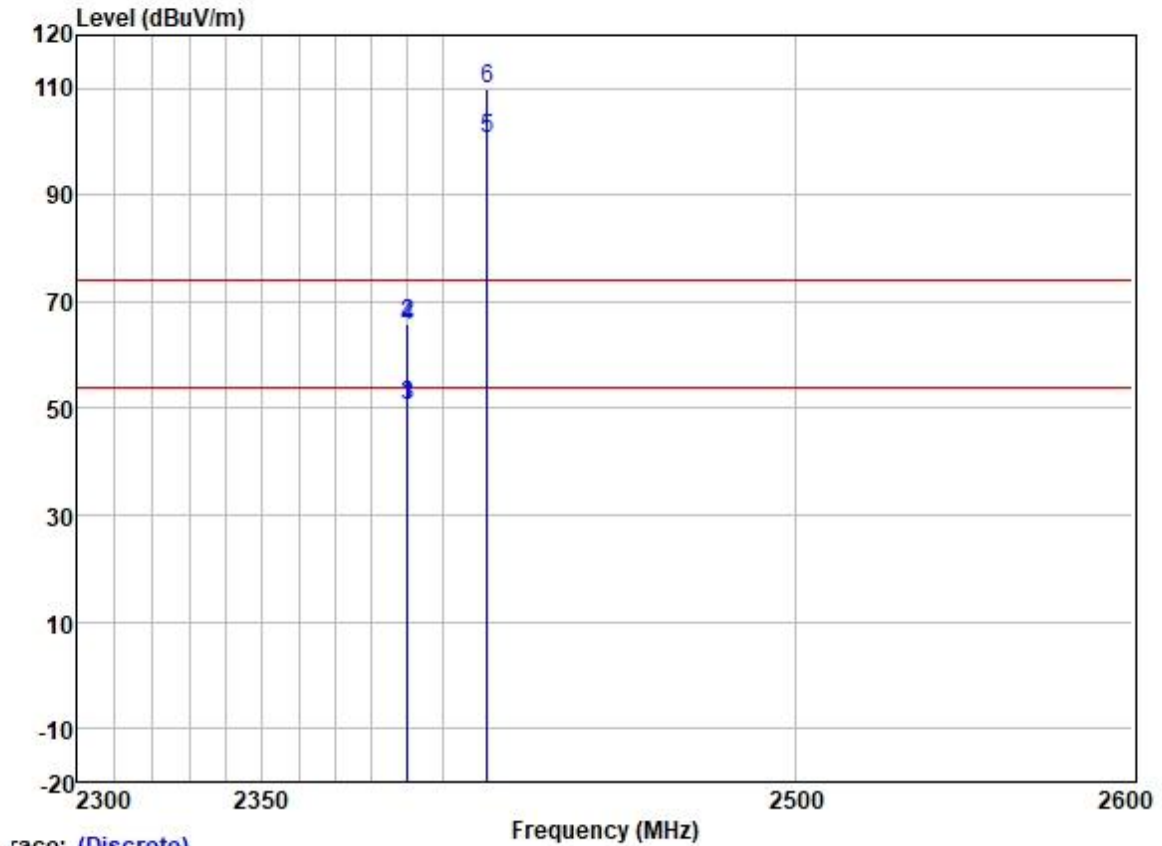


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.274	69.67	27.33	3.48	37.59	62.89	74.00	-11.11	HORIZONTAL Peak
2	2388.879	53.52	27.33	3.48	37.59	46.74	54.00	-7.26	HORIZONTAL Average
3	2390.000	52.51	27.33	3.48	37.59	45.73	54.00	-8.27	HORIZONTAL Average
4	2390.000	66.72	27.33	3.48	37.59	59.94	74.00	-14.06	HORIZONTAL Peak
5 *	2412.000	102.96	27.38	3.47	37.59	96.22	54.00	42.22	HORIZONTAL Average
6 *	2412.000	112.18	27.38	3.47	37.59	105.44	74.00	31.44	HORIZONTAL Peak



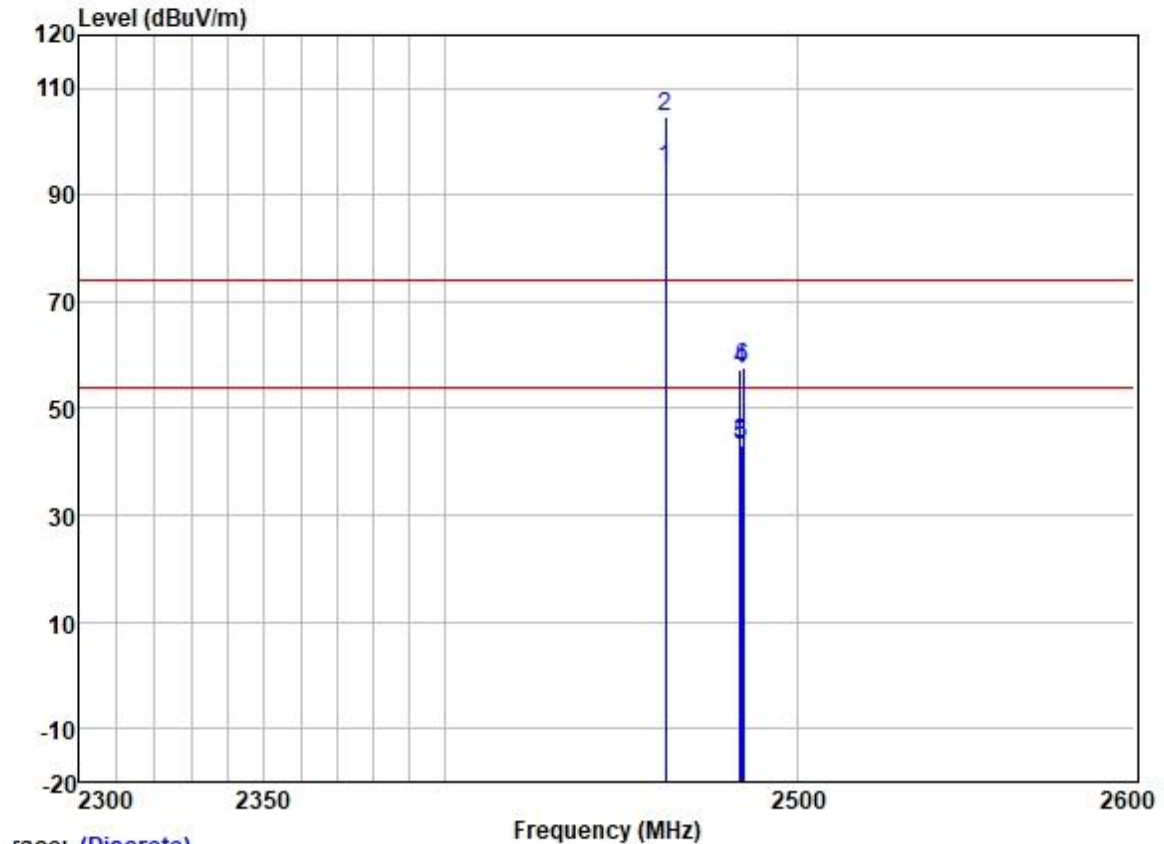
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.968	57.43	27.33	3.48	37.59	50.65	54.00	-3.35	VERTICAL	Average
2	2389.968	72.47	27.33	3.48	37.59	65.69	74.00	-8.31	VERTICAL	Peak
3	2390.000	57.30	27.33	3.48	37.59	50.52	54.00	-3.48	VERTICAL	Average
4	2390.000	72.15	27.33	3.48	37.59	65.37	74.00	-8.63	VERTICAL	Peak
5 *	2412.000	107.44	27.38	3.47	37.59	100.70	54.00	46.70	VERTICAL	Average
6 *	2412.000	116.50	27.38	3.47	37.59	109.76	74.00	35.76	VERTICAL	Peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	101.45	27.45	3.50	37.58	94.82	54.00	40.82	HORIZONTAL	Average
2 *	2462.000	111.39	27.45	3.50	37.58	104.76	74.00	30.76	HORIZONTAL	Peak
3	2483.500	49.93	27.48	3.53	37.57	43.37	54.00	-10.63	HORIZONTAL	Average
4	2483.500	63.94	27.48	3.53	37.57	57.38	74.00	-16.62	HORIZONTAL	Peak
5	2483.790	49.59	27.48	3.53	37.57	43.03	54.00	-10.97	HORIZONTAL	Average
6	2484.292	64.39	27.48	3.53	37.57	57.83	74.00	-16.17	HORIZONTAL	Peak

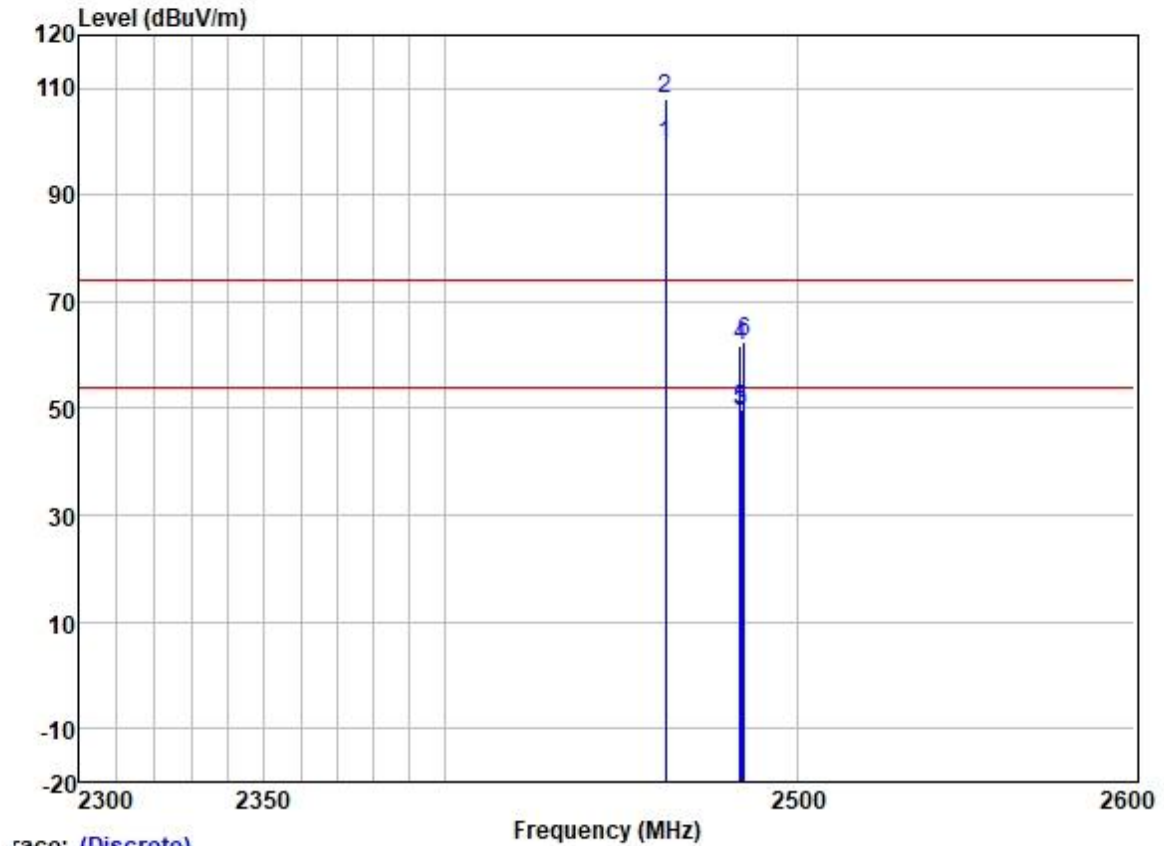


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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	106.06	27.45	3.50	37.58	99.43	54.00	45.43	VERTICAL	Average
2 *	2462.000	114.69	27.45	3.50	37.58	108.06	74.00	34.06	VERTICAL	Peak
3	2483.500	56.07	27.48	3.53	37.57	49.51	54.00	-4.49	VERTICAL	Average
4	2483.500	68.20	27.48	3.53	37.57	61.64	74.00	-12.36	VERTICAL	Peak
5	2483.890	56.22	27.48	3.53	37.57	49.66	54.00	-4.34	VERTICAL	Average
6	2484.693	69.20	27.48	3.53	37.57	62.64	74.00	-11.36	VERTICAL	Peak

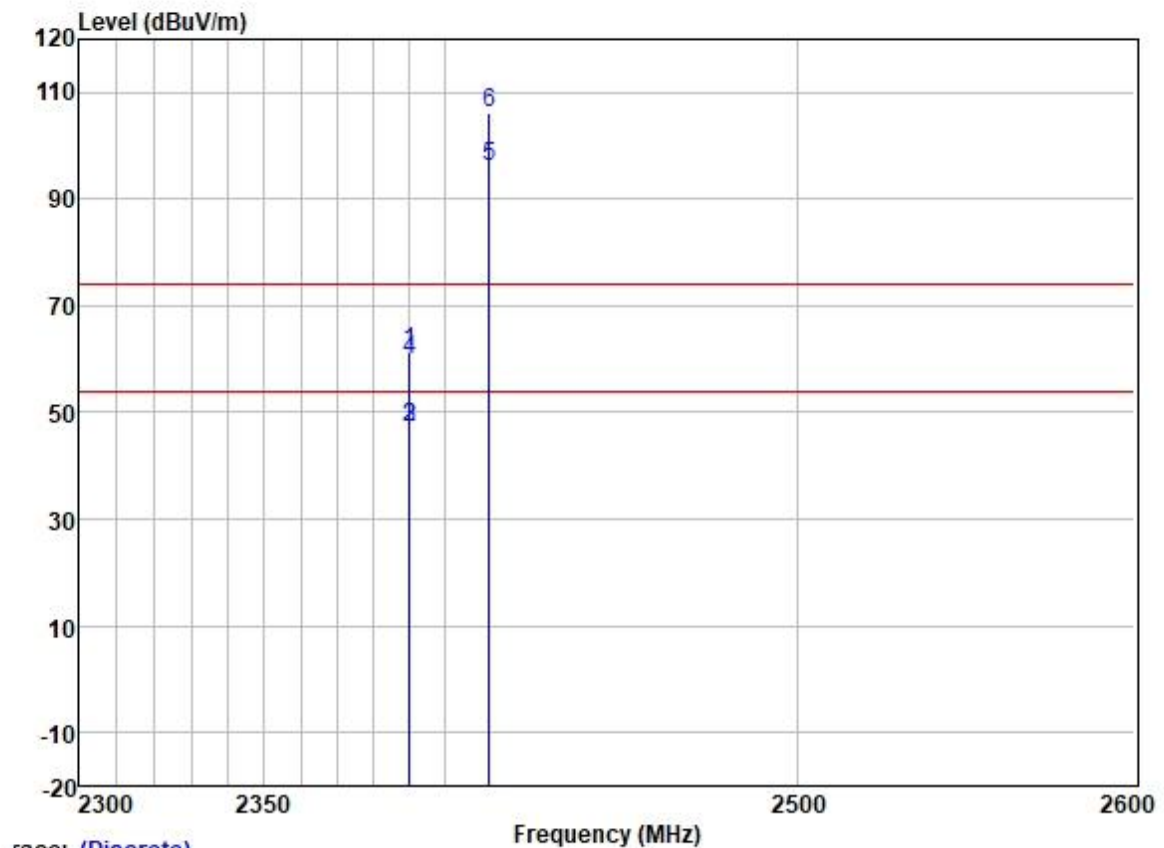


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

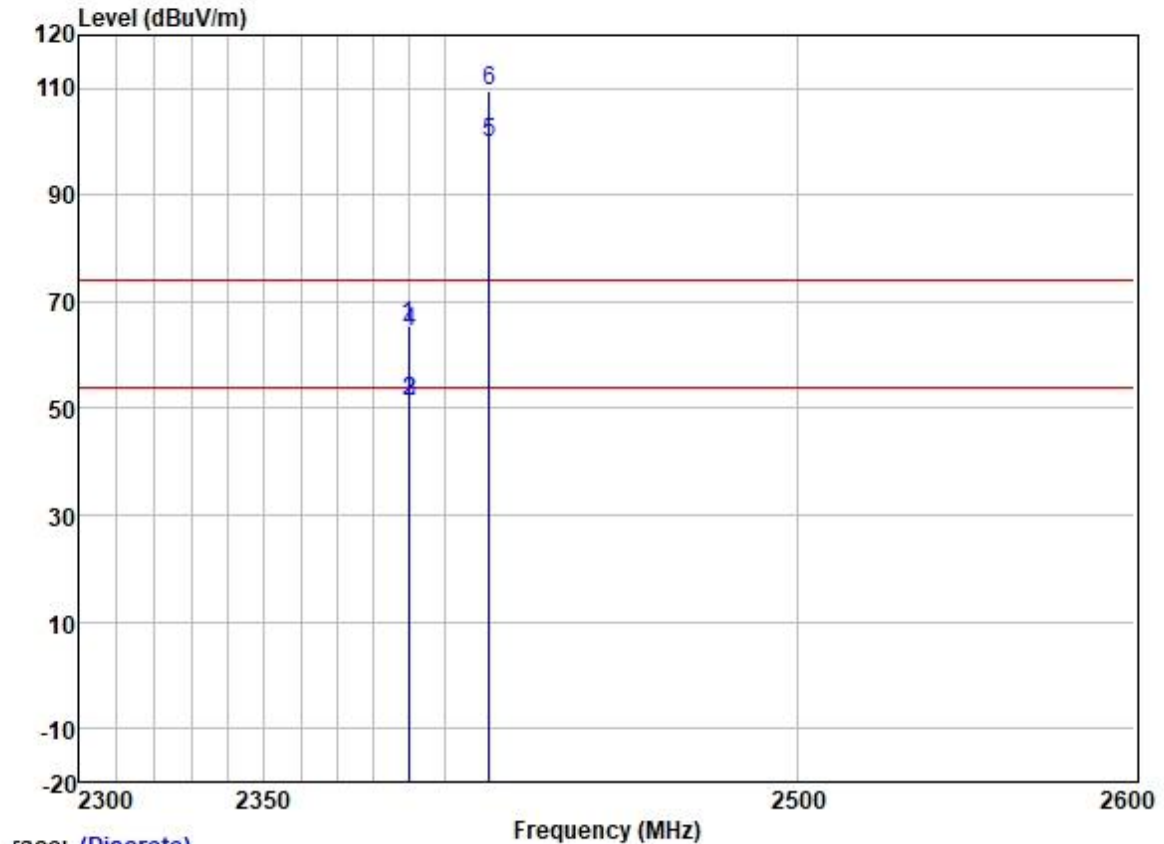


race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2389.847	68.25	27.33	3.48	37.59	61.47	74.00	-12.53	HORIZONTAL Peak
2	2389.968	53.94	27.33	3.48	37.59	47.16	54.00	-6.84	HORIZONTAL Average
3	2390.000	54.00	27.33	3.48	37.59	47.22	54.00	-6.78	HORIZONTAL Average
4	2390.000	66.60	27.33	3.48	37.59	59.82	74.00	-14.18	HORIZONTAL Peak
5 *	2412.000	102.96	27.38	3.47	37.59	96.22	54.00	42.22	HORIZONTAL Average
6 *	2412.000	112.99	27.38	3.47	37.59	106.25	74.00	32.25	HORIZONTAL Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

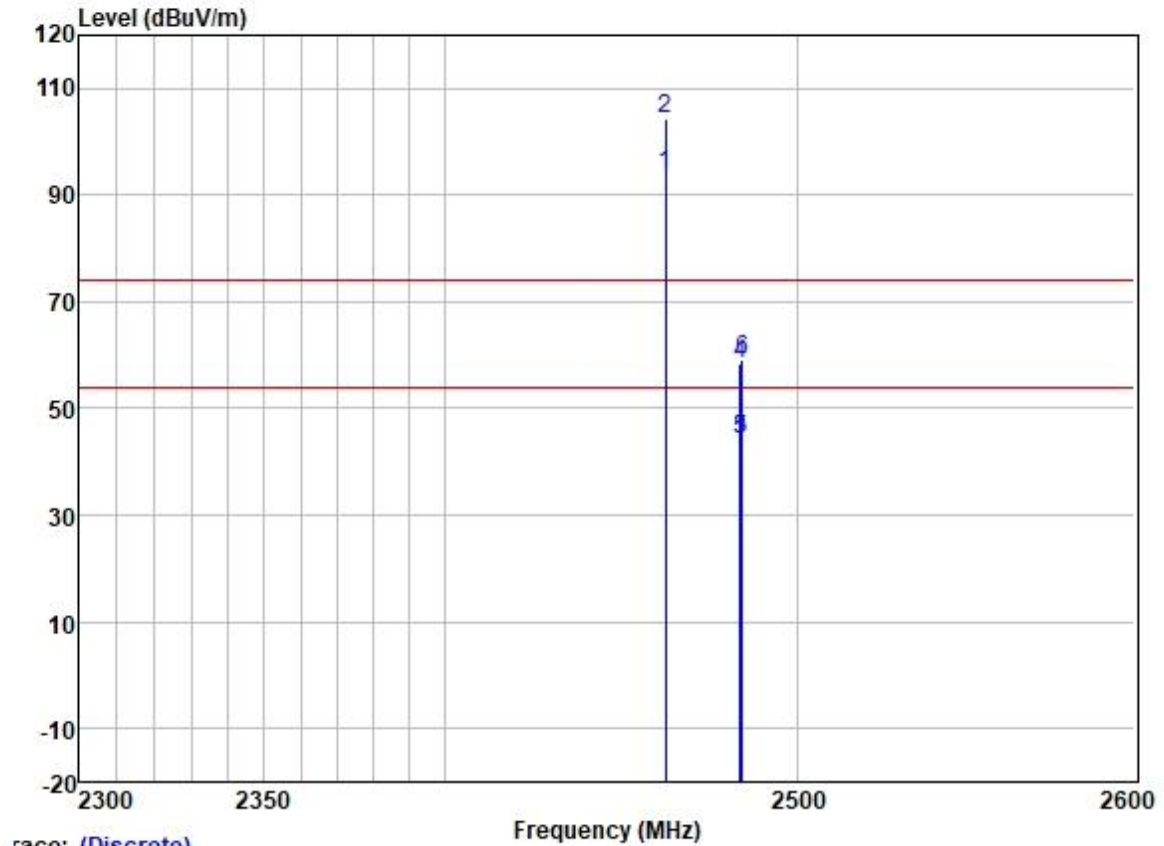


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2389.605	72.38	27.33	3.48	37.59	65.60	74.00	-8.40	VERTICAL Peak
2	2389.968	57.93	27.33	3.48	37.59	51.15	54.00	-2.85	VERTICAL Average
3	2390.000	57.95	27.33	3.48	37.59	51.17	54.00	-2.83	VERTICAL Average
4	2390.000	71.14	27.33	3.48	37.59	64.36	74.00	-9.64	VERTICAL Peak
5 *	2412.000	106.43	27.38	3.47	37.59	99.69	54.00	45.69	VERTICAL Average
6 *	2412.000	116.24	27.38	3.47	37.59	109.50	74.00	35.50	VERTICAL Peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	100.55	27.45	3.50	37.58	93.92	54.00	39.92	HORIZONTAL	Average
2 *	2462.000	111.12	27.45	3.50	37.58	104.49	74.00	30.49	HORIZONTAL	Peak
3	2483.500	50.81	27.48	3.53	37.57	44.25	54.00	-9.75	HORIZONTAL	Average
4	2483.500	64.90	27.48	3.53	37.57	58.34	74.00	-15.66	HORIZONTAL	Peak
5	2483.790	50.61	27.48	3.53	37.57	44.05	54.00	-9.95	HORIZONTAL	Average
6	2483.940	65.86	27.48	3.53	37.57	59.30	74.00	-14.70	HORIZONTAL	Peak

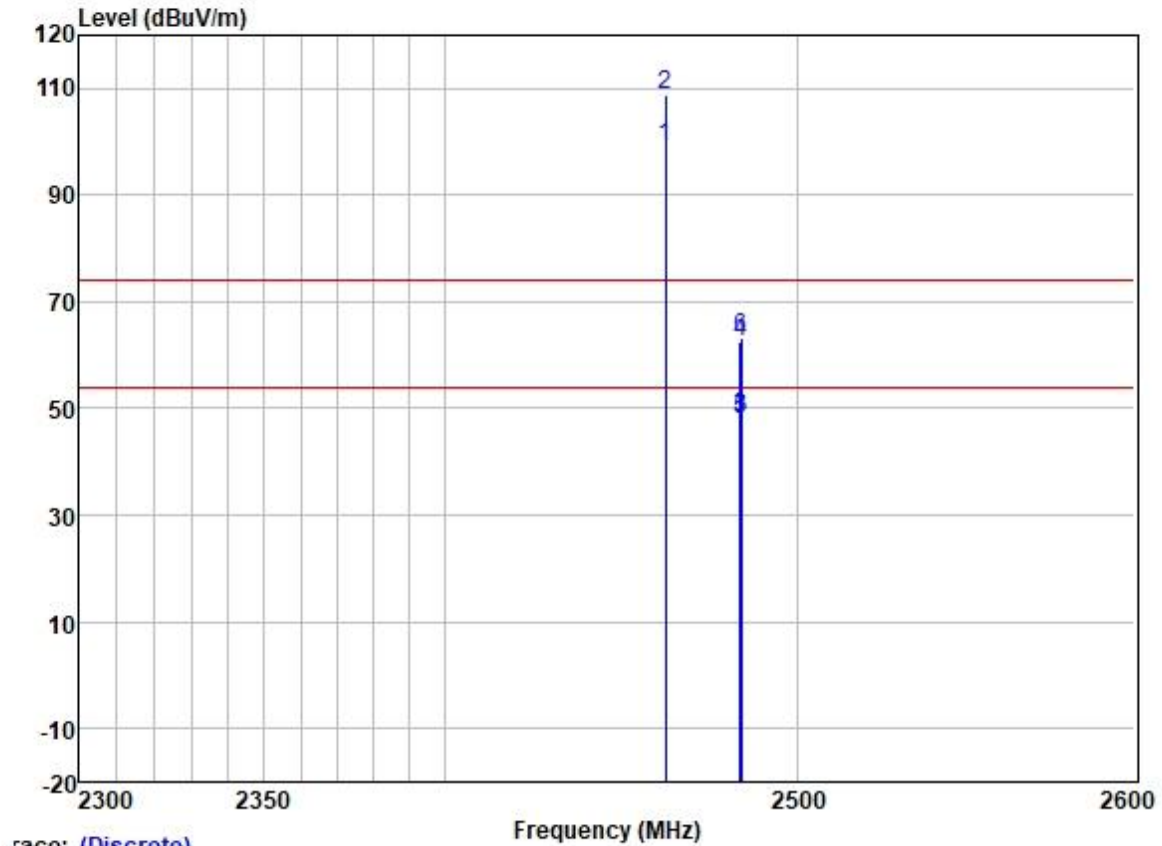


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	105.76	27.45	3.50	37.58	99.13	54.00	45.13	VERTICAL	Average
2 *	2462.000	115.25	27.45	3.50	37.58	108.62	74.00	34.62	VERTICAL	Peak
3	2483.500	54.98	27.48	3.53	37.57	48.42	54.00	-5.58	VERTICAL	Average
4	2483.500	69.14	27.48	3.53	37.57	62.58	74.00	-11.42	VERTICAL	Peak
5	2483.790	54.44	27.48	3.53	37.57	47.88	54.00	-6.12	VERTICAL	Average
6	2483.890	69.70	27.48	3.53	37.57	63.14	74.00	-10.86	VERTICAL	Peak

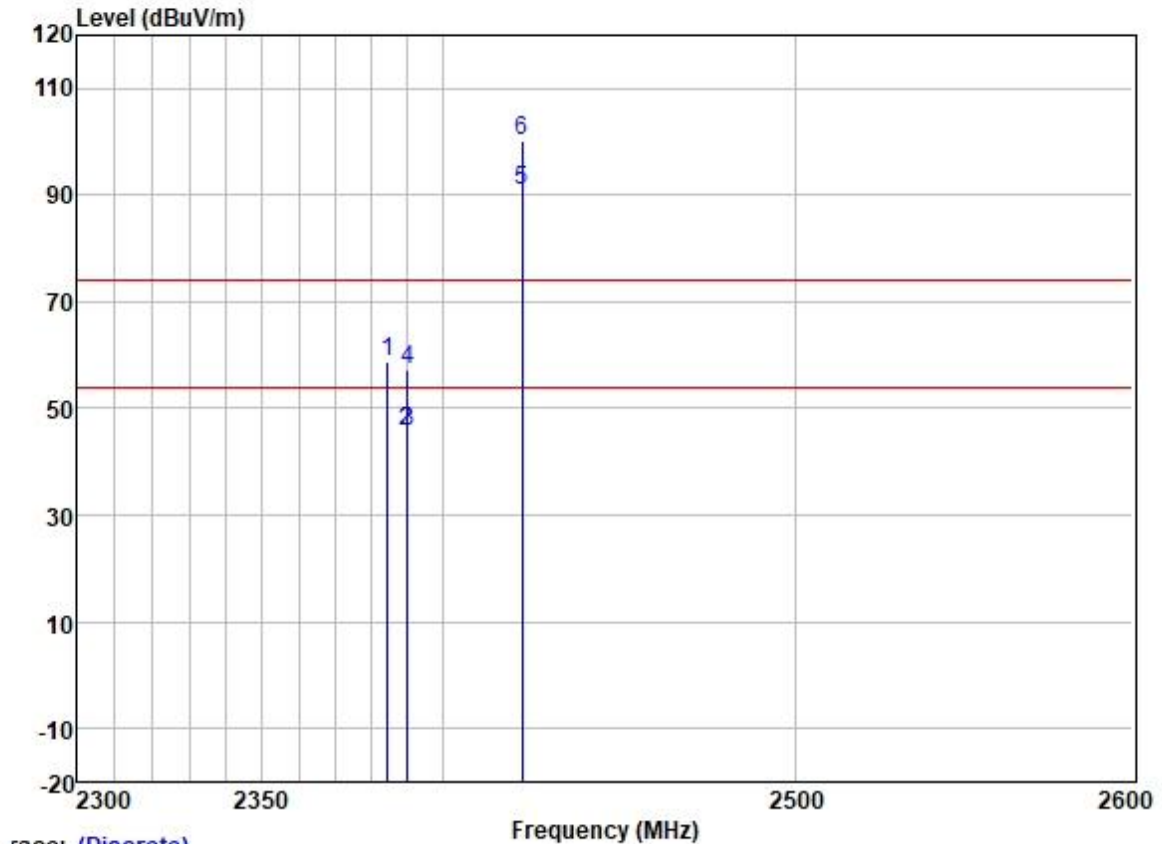


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 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

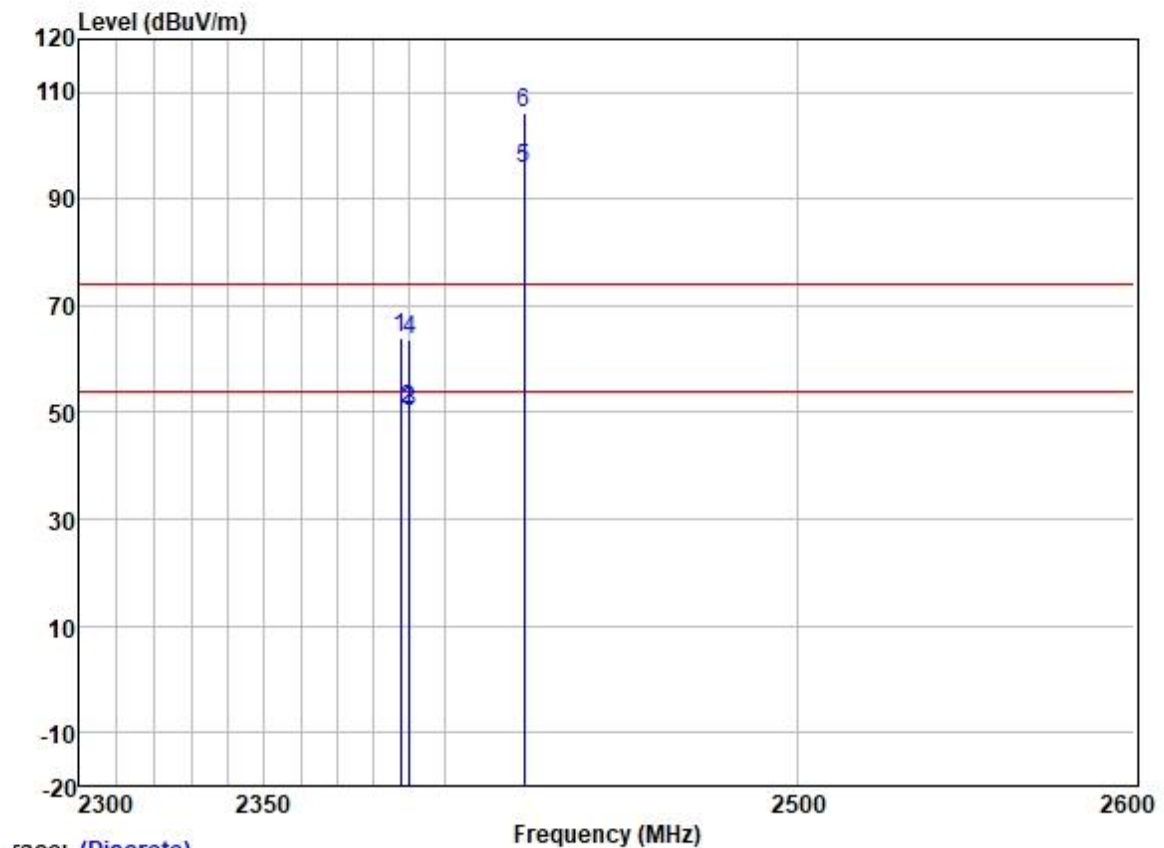


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2384.271	65.73	27.33	3.48	37.60	58.94	74.00	-15.06	HORIZONTAL	Peak
2	2389.526	52.66	27.33	3.48	37.59	45.88	54.00	-8.12	HORIZONTAL	Average
3	2390.000	52.33	27.33	3.48	37.59	45.55	54.00	-8.45	HORIZONTAL	Average
4	2390.000	64.21	27.33	3.48	37.59	57.43	74.00	-16.57	HORIZONTAL	Peak
5 *	2422.000	97.58	27.39	3.45	37.58	90.84	54.00	36.84	HORIZONTAL	Average
6 *	2422.000	107.08	27.39	3.45	37.58	100.34	74.00	26.34	HORIZONTAL	Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

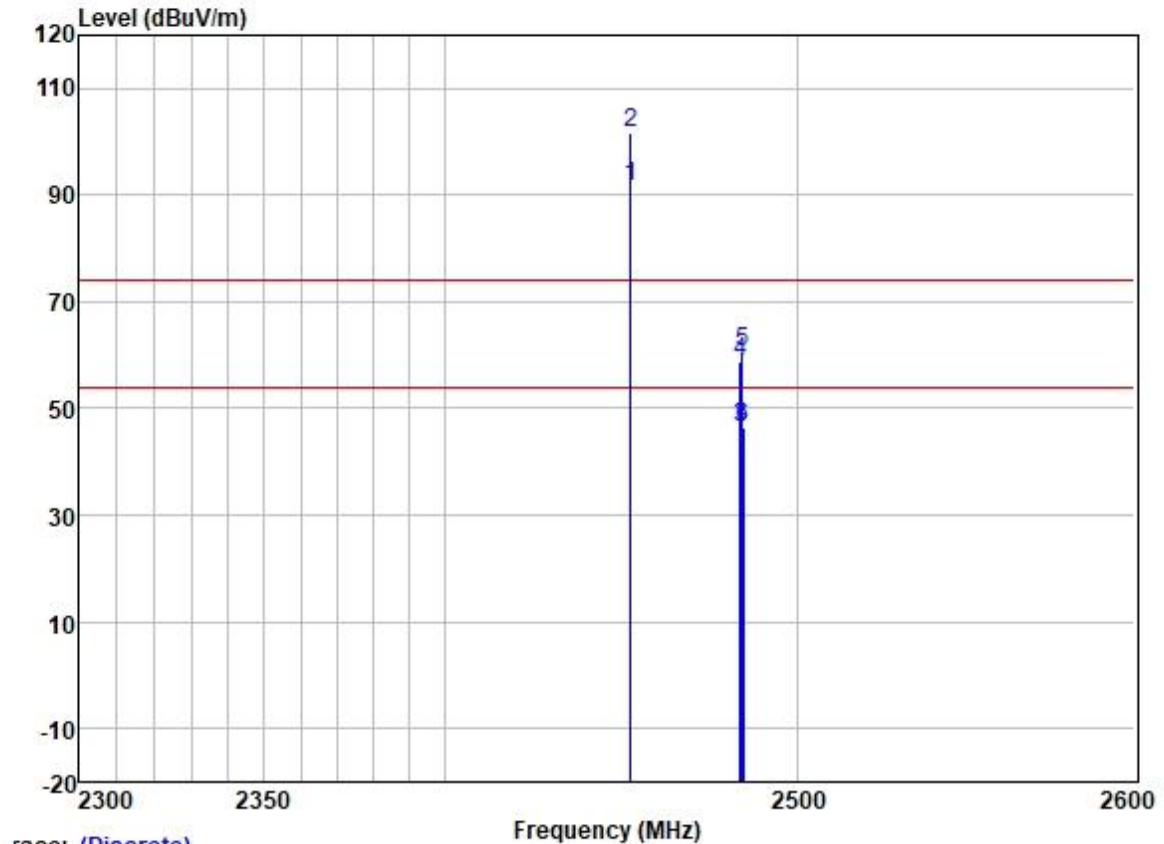


Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2387.423	70.86	27.33	3.48	37.60	64.07	74.00	-9.93	VERTICAL	Peak
2	2389.677	57.28	27.33	3.48	37.59	50.50	54.00	-3.50	VERTICAL	Average
3	2390.000	57.13	27.33	3.48	37.59	50.35	54.00	-3.65	VERTICAL	Average
4	2390.000	70.54	27.33	3.48	37.59	63.76	74.00	-10.24	VERTICAL	Peak
5 *	2422.000	102.66	27.39	3.45	37.58	95.92	54.00	41.92	VERTICAL	Average
6 *	2422.000	112.95	27.39	3.45	37.58	106.21	74.00	32.21	VERTICAL	Peak



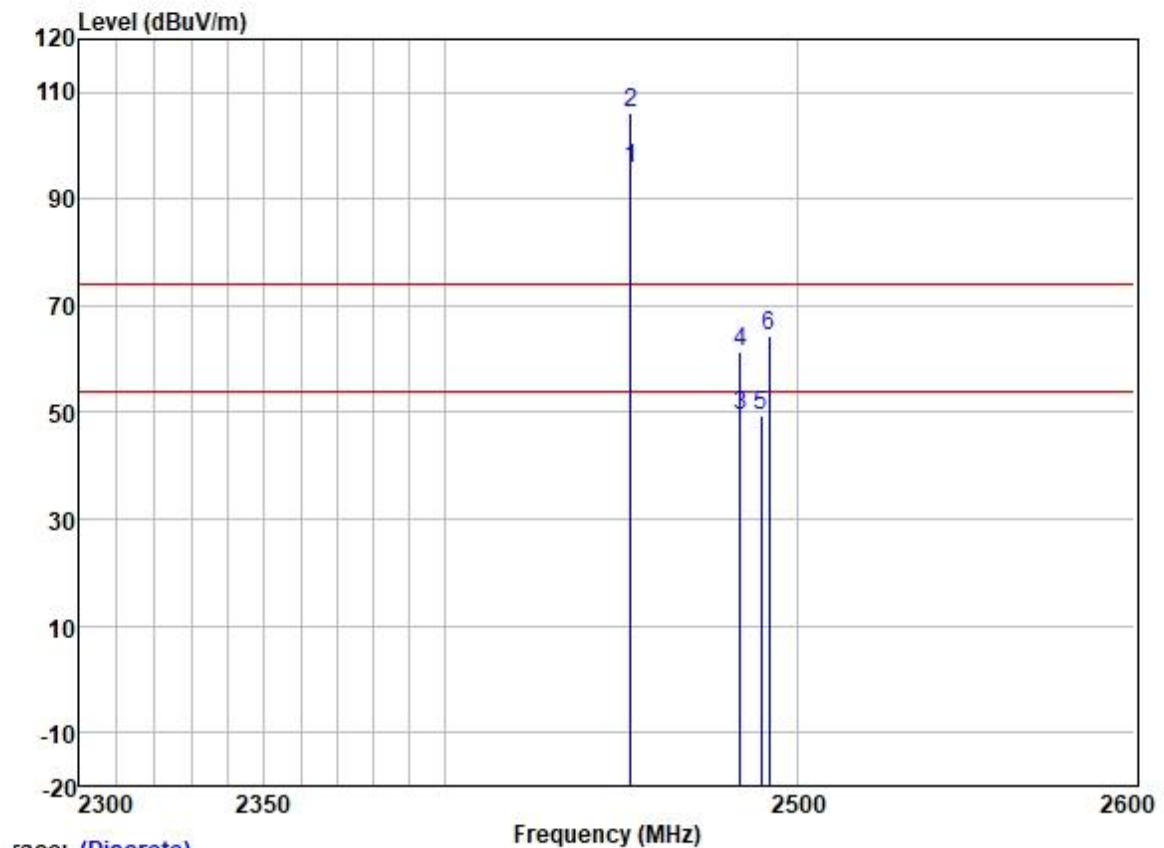
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

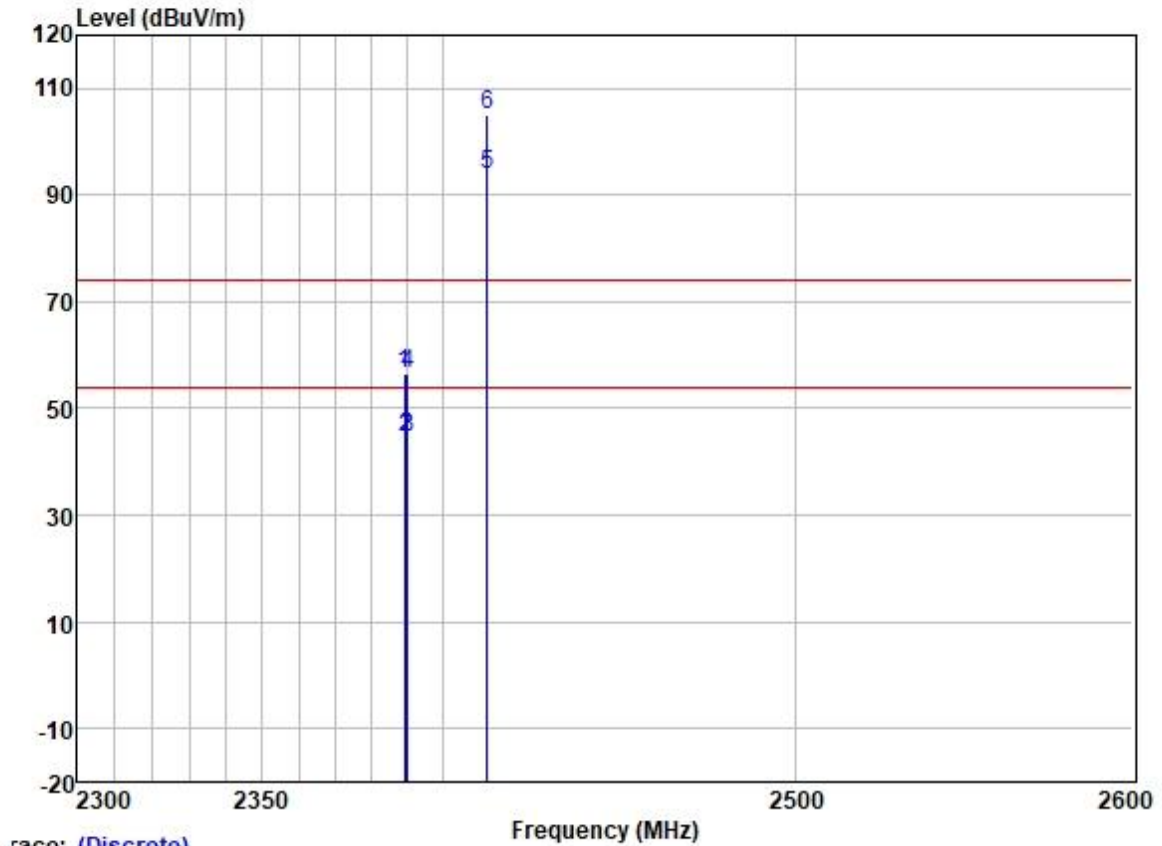
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2452.000	98.32	27.43	3.40	37.58	91.57	54.00	37.57	HORIZONTAL	Average
2 *	2452.000	108.37	27.43	3.40	37.58	101.62	74.00	27.62	HORIZONTAL	Peak
3	2483.500	52.89	27.48	3.53	37.57	46.33	54.00	-7.67	HORIZONTAL	Average
4	2483.500	65.33	27.48	3.53	37.57	58.77	74.00	-15.23	HORIZONTAL	Peak
5	2484.076	67.06	27.48	3.53	37.57	60.50	74.00	-13.50	HORIZONTAL	Peak
6	2484.217	52.84	27.48	3.53	37.57	46.28	54.00	-7.72	HORIZONTAL	Average

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2452.000	102.45	27.43	3.40	37.58	95.70	54.00	41.70	VERTICAL	Average
2 *	2452.000	112.85	27.43	3.40	37.58	106.10	74.00	32.10	VERTICAL	Peak
3	2483.500	56.11	27.48	3.53	37.57	49.55	54.00	-4.45	VERTICAL	Average
4	2483.500	67.92	27.48	3.53	37.57	61.36	74.00	-12.64	VERTICAL	Peak
5	2489.514	56.17	27.49	3.47	37.56	49.57	54.00	-4.43	VERTICAL	Average
6	2491.848	71.16	27.49	3.47	37.56	64.56	74.00	-9.44	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low

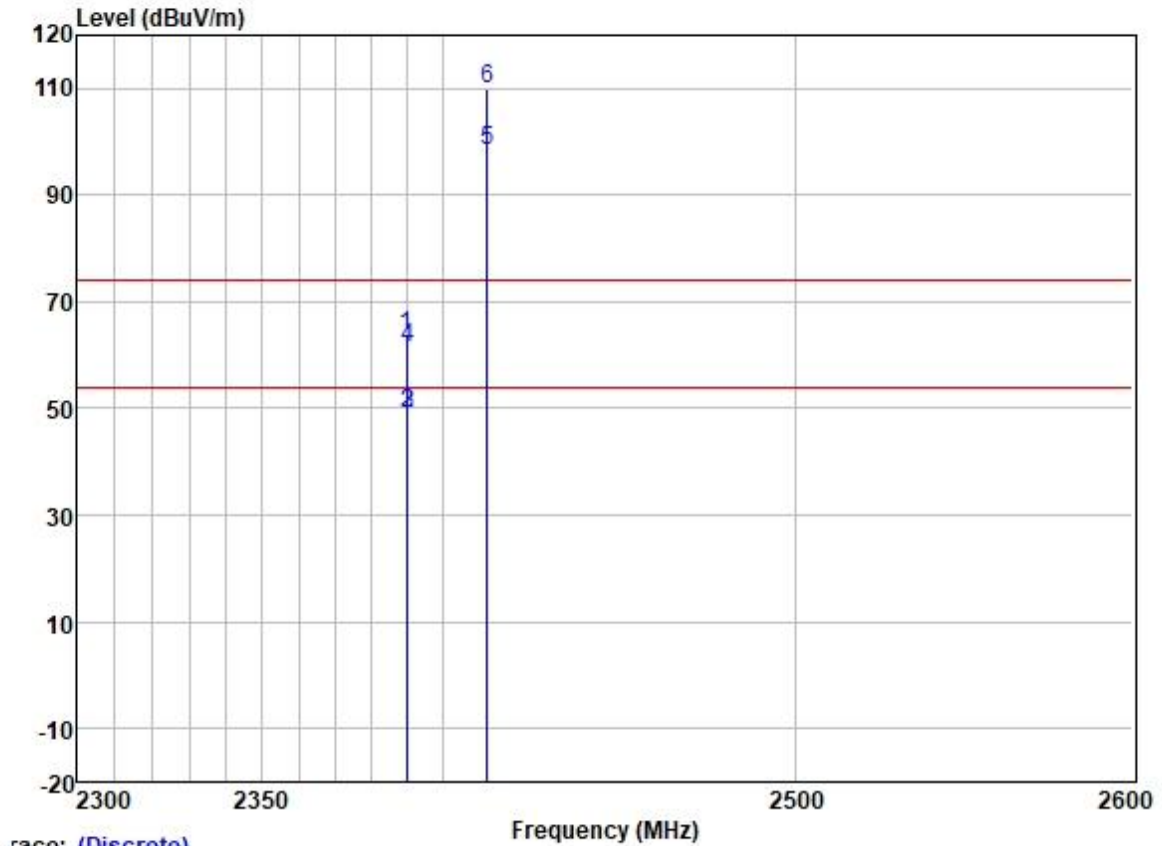


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.121	63.43	27.33	3.48	37.59	56.65	74.00	-17.35	HORIZONTAL	Peak
2	2389.605	51.36	27.33	3.48	37.59	44.58	54.00	-9.42	HORIZONTAL	Average
3	2390.000	51.34	27.33	3.48	37.59	44.56	54.00	-9.44	HORIZONTAL	Average
4	2390.000	63.14	27.33	3.48	37.59	56.36	74.00	-17.64	HORIZONTAL	Peak
5 *	2412.000	100.75	27.38	3.47	37.59	94.01	54.00	40.01	HORIZONTAL	Average
6 *	2412.000	111.93	27.38	3.47	37.59	105.19	74.00	31.19	HORIZONTAL	Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low

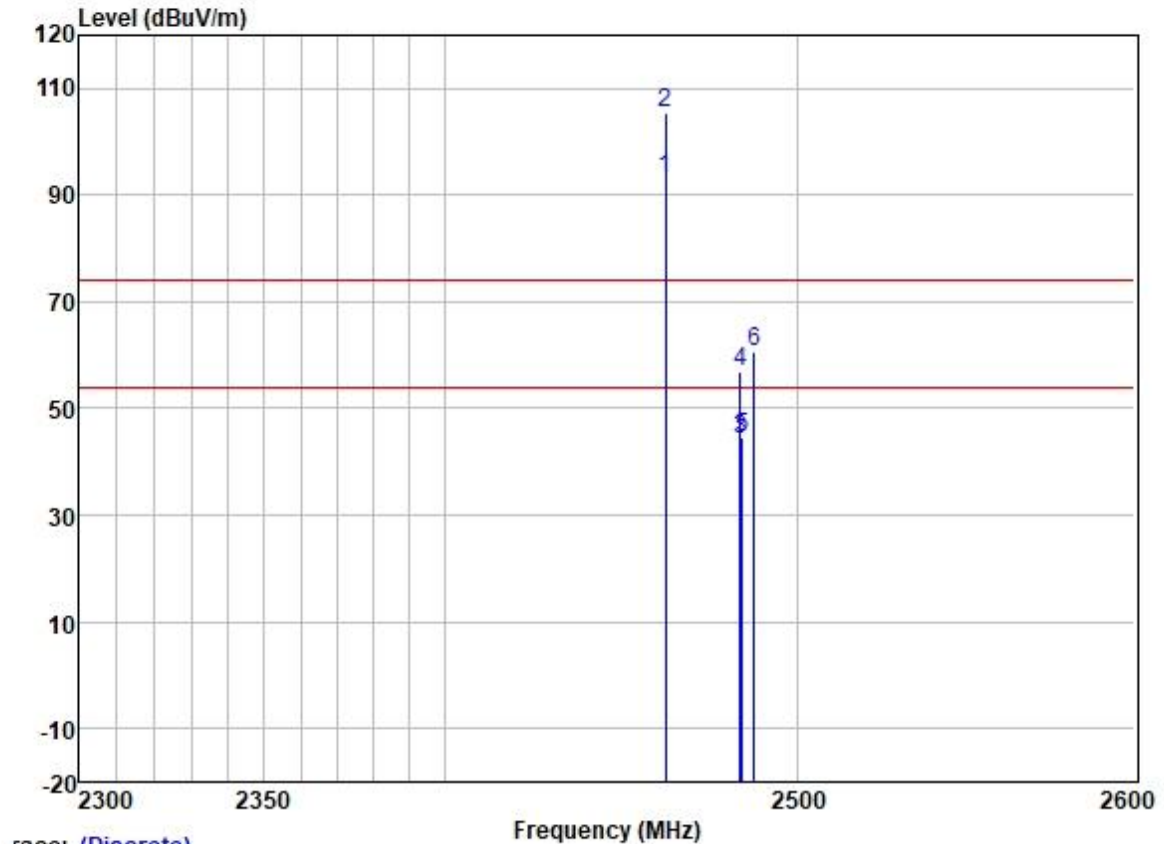


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2389.484	70.57	27.33	3.48	37.59	63.79	74.00	-10.21	VERTICAL
2	2389.968	55.86	27.33	3.48	37.59	49.08	54.00	-4.92	VERTICAL
3	2390.000	55.91	27.33	3.48	37.59	49.13	54.00	-4.87	VERTICAL
4	2390.000	68.20	27.33	3.48	37.59	61.42	74.00	-12.58	VERTICAL
5 *	2412.000	105.09	27.38	3.47	37.59	98.35	54.00	44.35	VERTICAL
6 *	2412.000	116.62	27.38	3.47	37.59	109.88	74.00	35.88	VERTICAL



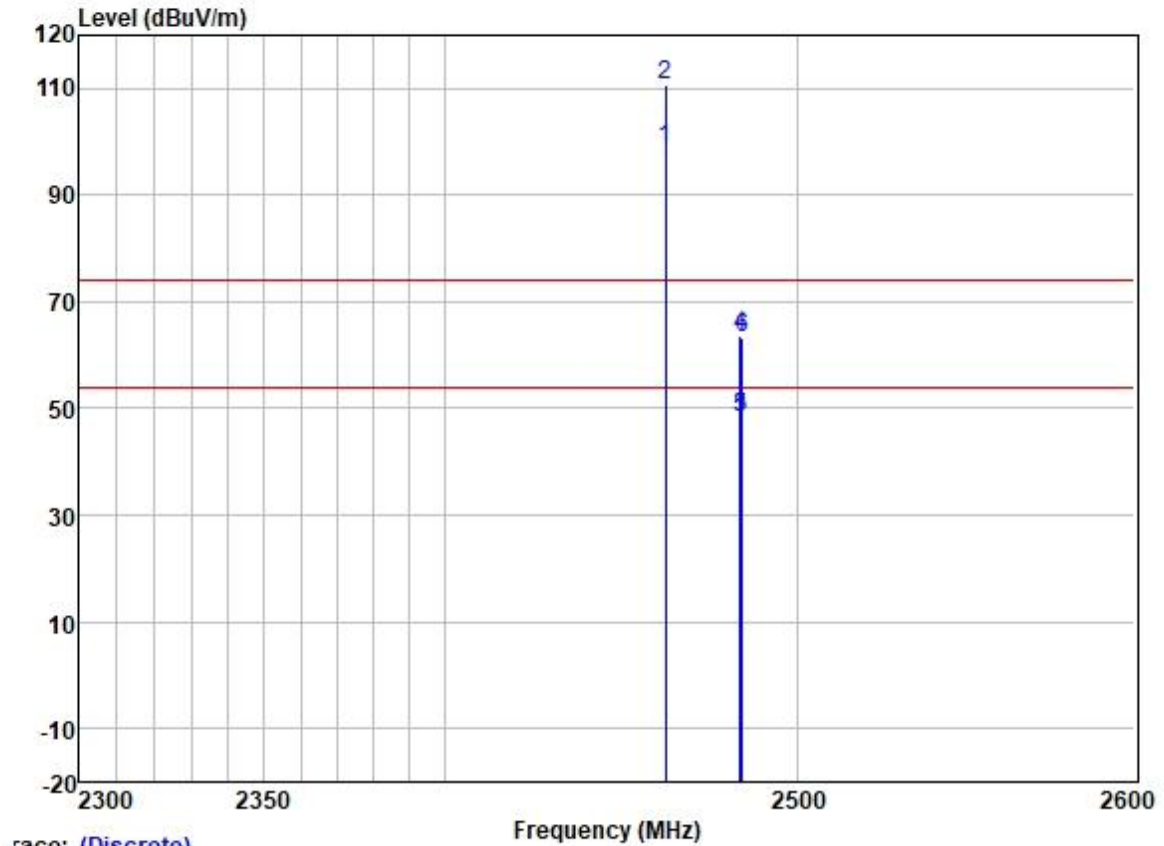
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	*	2462.000	99.66	27.45	3.50	37.58	93.03	54.00	39.03	HORIZONTAL Average
2	*	2462.000	112.11	27.45	3.50	37.58	105.48	74.00	31.48	HORIZONTAL Peak
3		2483.500	50.76	27.48	3.53	37.57	44.20	54.00	-9.80	HORIZONTAL Average
4		2483.500	63.57	27.48	3.53	37.57	57.01	74.00	-16.99	HORIZONTAL Peak
5		2483.940	51.08	27.48	3.53	37.57	44.52	54.00	-9.48	HORIZONTAL Average
6		2487.405	67.07	27.48	3.53	37.57	60.51	74.00	-13.49	HORIZONTAL Peak

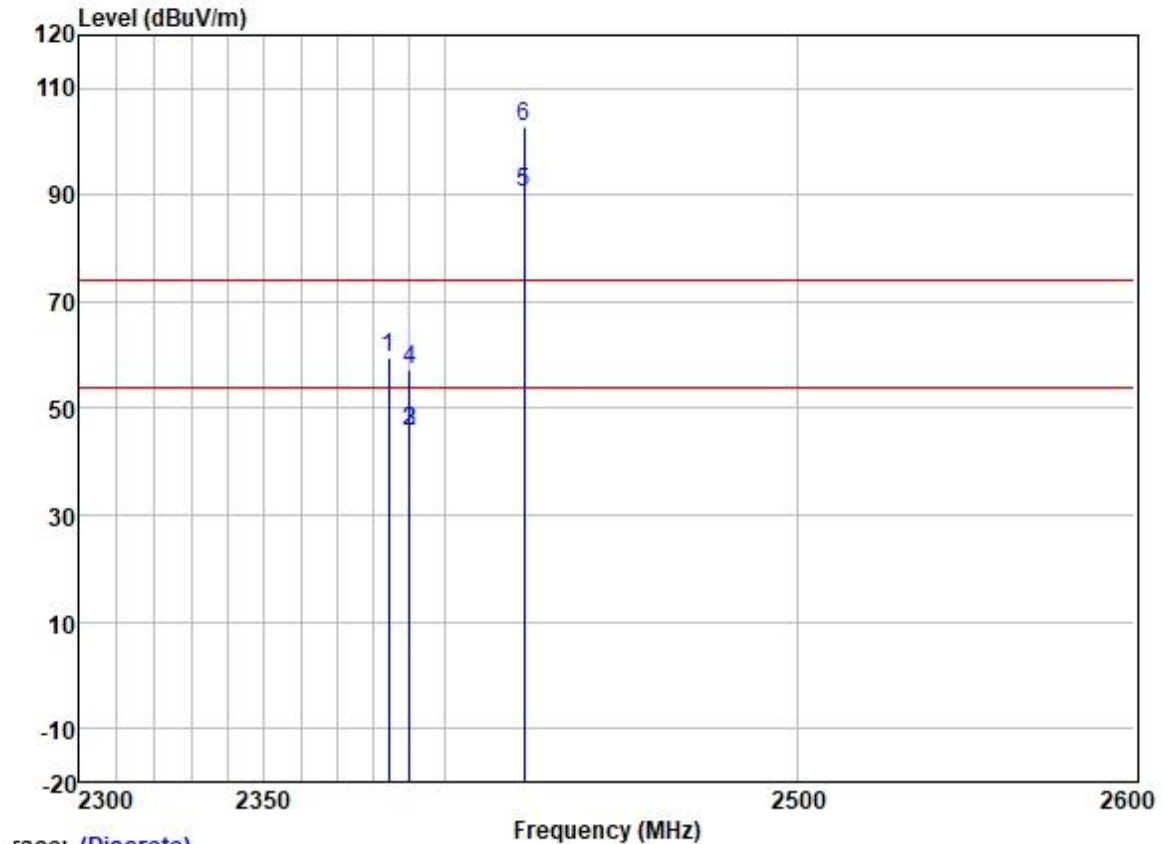
Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	105.38	27.45	3.50	37.58	98.75	54.00	44.75	VERTICAL	Average
2 *	2462.000	117.17	27.45	3.50	37.58	110.54	74.00	36.54	VERTICAL	Peak
3	2483.500	55.00	27.48	3.53	37.57	48.44	54.00	-5.56	VERTICAL	Average
4	2483.500	70.37	27.48	3.53	37.57	63.81	74.00	-10.19	VERTICAL	Peak
5	2483.790	54.82	27.48	3.53	37.57	48.26	54.00	-5.74	VERTICAL	Average
6	2483.940	69.88	27.48	3.53	37.57	63.32	74.00	-10.68	VERTICAL	Peak

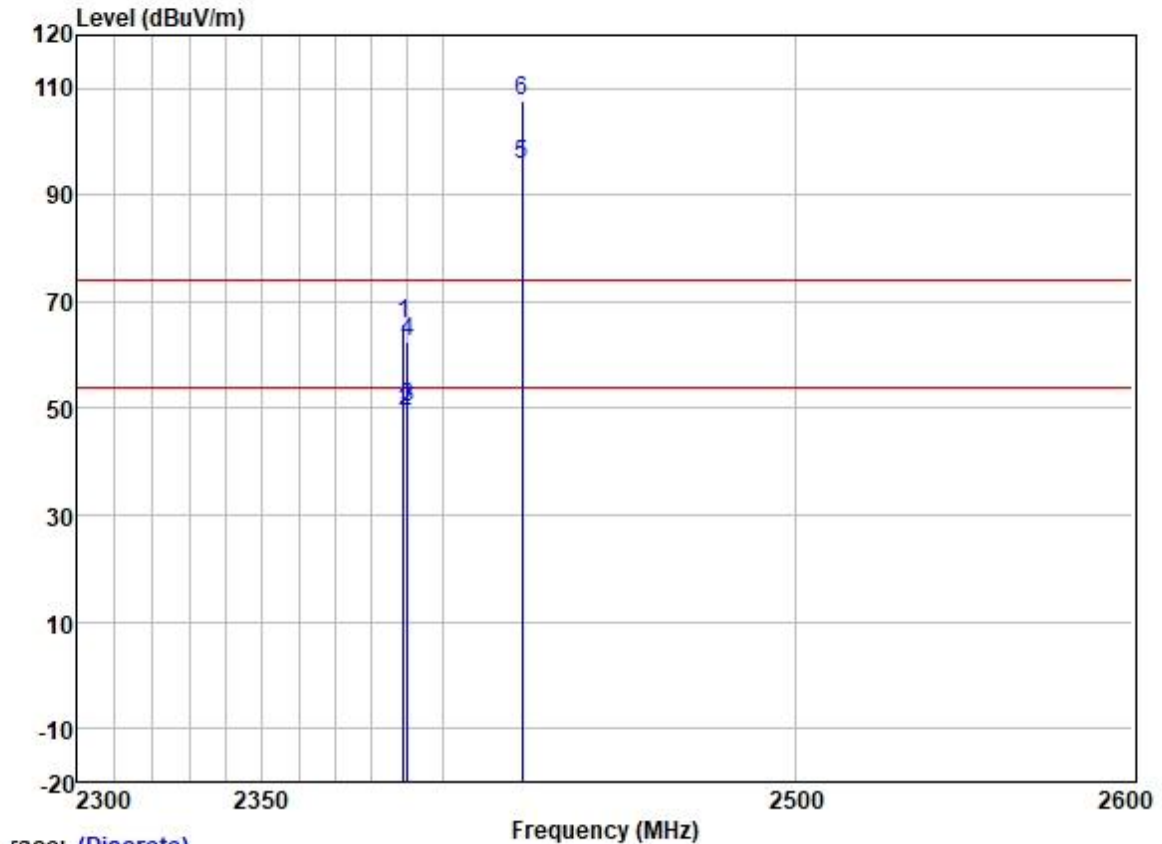
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2384.120	66.14	27.33	3.48	37.60	59.35	74.00	-14.65	HORIZONTAL	Peak
2	2389.827	52.40	27.33	3.48	37.59	45.62	54.00	-8.38	HORIZONTAL	Average
3	2390.000	52.37	27.33	3.48	37.59	45.59	54.00	-8.41	HORIZONTAL	Average
4	2390.000	63.92	27.33	3.48	37.59	57.14	74.00	-16.86	HORIZONTAL	Peak
5 *	2422.000	97.16	27.39	3.45	37.58	90.42	54.00	36.42	HORIZONTAL	Average
6 *	2422.000	109.71	27.39	3.45	37.58	102.97	74.00	28.97	HORIZONTAL	Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low

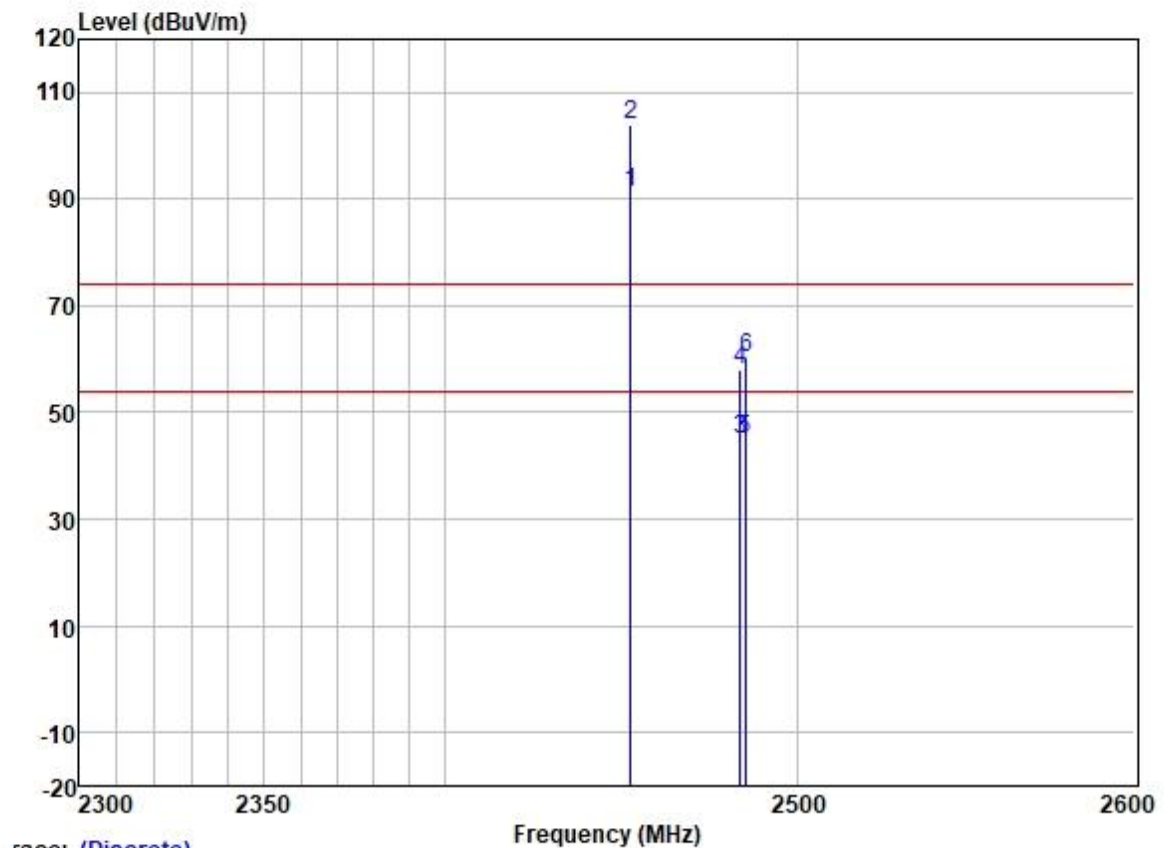


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2388.775	72.54	27.33	3.48	37.59	65.76	74.00	-8.24	VERTICAL	Peak
2	2389.677	56.34	27.33	3.48	37.59	49.56	54.00	-4.44	VERTICAL	Average
3	2390.000	56.82	27.33	3.48	37.59	50.04	54.00	-3.96	VERTICAL	Average
4	2390.000	69.16	27.33	3.48	37.59	62.38	74.00	-11.62	VERTICAL	Peak
5 *	2422.000	102.32	27.39	3.45	37.58	95.58	54.00	41.58	VERTICAL	Average
6 *	2422.000	114.50	27.39	3.45	37.58	107.76	74.00	33.76	VERTICAL	Peak



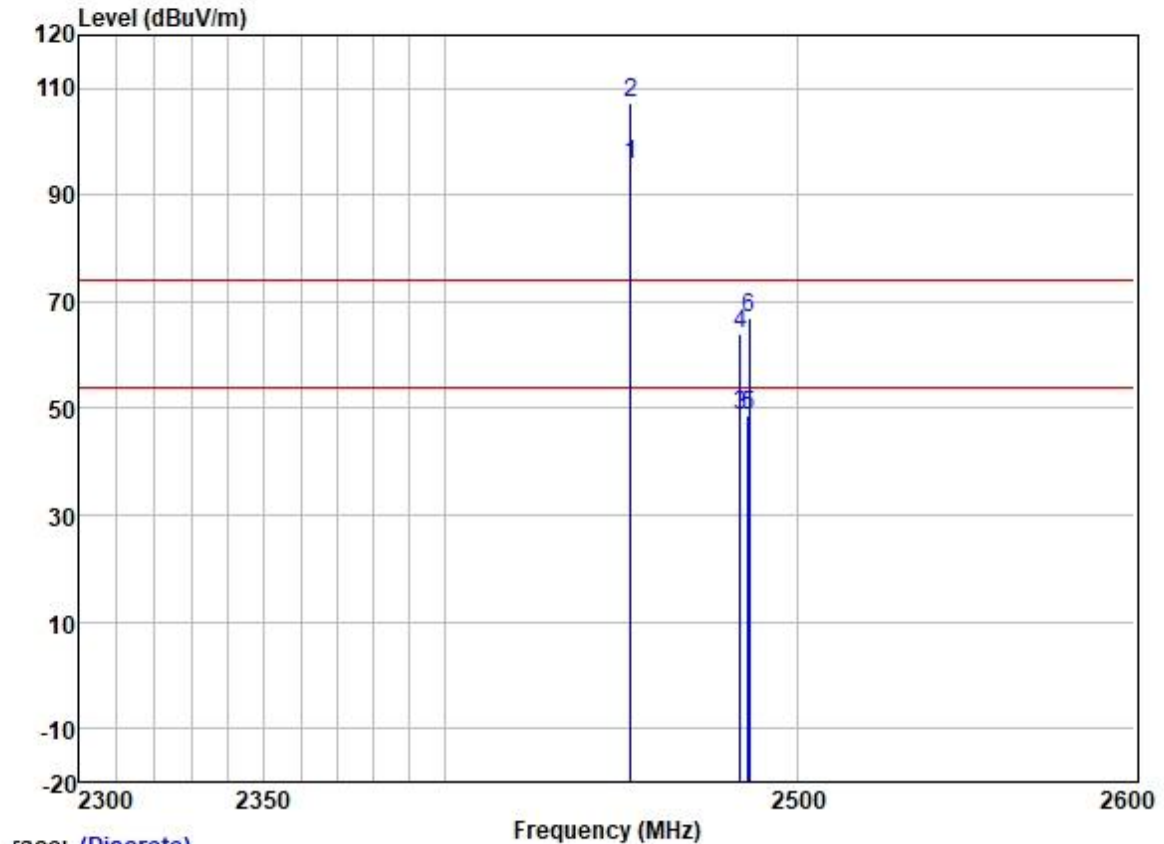
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2452.000	97.82	27.43	3.40	37.58	91.07	54.00	37.07	HORIZONTAL	Average
2 *	2452.000	110.68	27.43	3.40	37.58	103.93	74.00	29.93	HORIZONTAL	Peak
3	2483.500	51.49	27.48	3.53	37.57	44.93	54.00	-9.07	HORIZONTAL	Average
4	2483.500	64.63	27.48	3.53	37.57	58.07	74.00	-15.93	HORIZONTAL	Peak
5	2484.923	51.45	27.48	3.53	37.57	44.89	54.00	-9.11	HORIZONTAL	Average
6	2485.205	66.78	27.48	3.53	37.57	60.22	74.00	-13.78	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2452.000	102.49	27.43	3.40	37.58	95.74	54.00	41.74	VERTICAL	Average
2 *	2452.000	113.87	27.43	3.40	37.58	107.12	74.00	33.12	VERTICAL	Peak
3	2483.500	55.29	27.48	3.53	37.57	48.73	54.00	-5.27	VERTICAL	Average
4	2483.500	70.50	27.48	3.53	37.57	63.94	74.00	-10.06	VERTICAL	Peak
5	2485.841	55.23	27.48	3.53	37.57	48.67	54.00	-5.33	VERTICAL	Average
6	2486.052	73.45	27.48	3.53	37.57	66.89	74.00	-7.11	VERTICAL	Peak

## 7.8 Radiated Spurious Emissions (Below 1GHz)

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

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

Limit:

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

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

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C

Humidity: 63.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

Pre-scan / Mode  
Final test Code

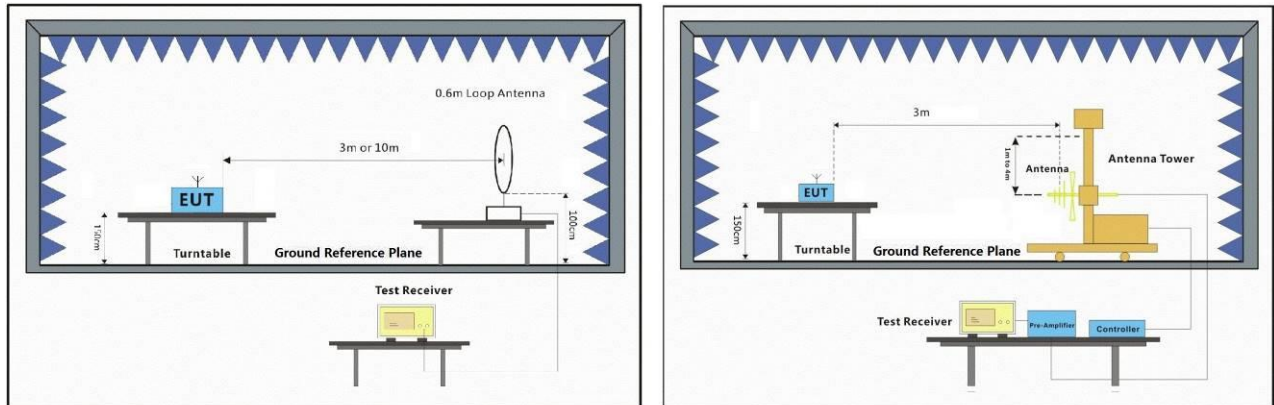
Description

Final test 01

TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

#### Remark:

- Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



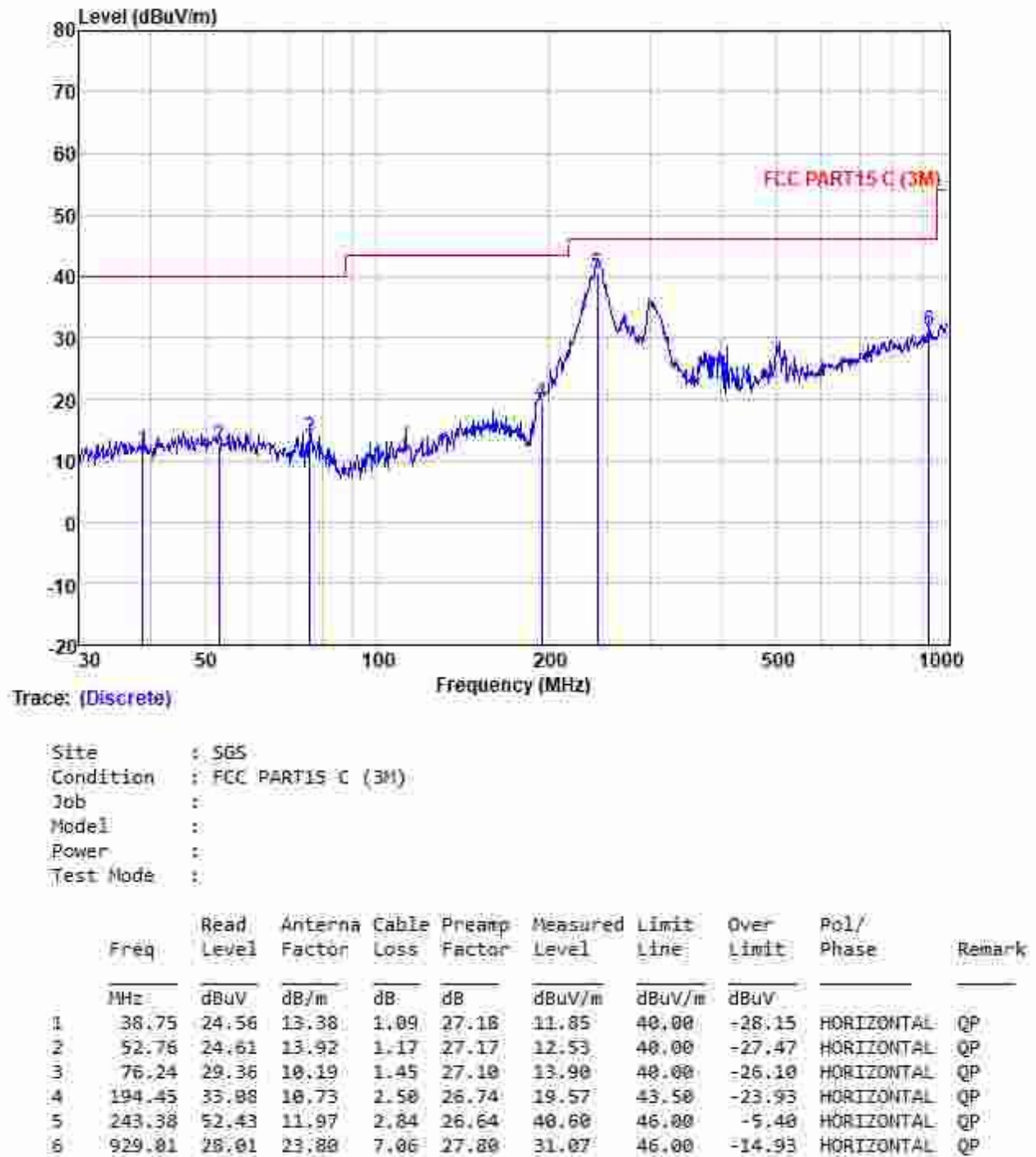
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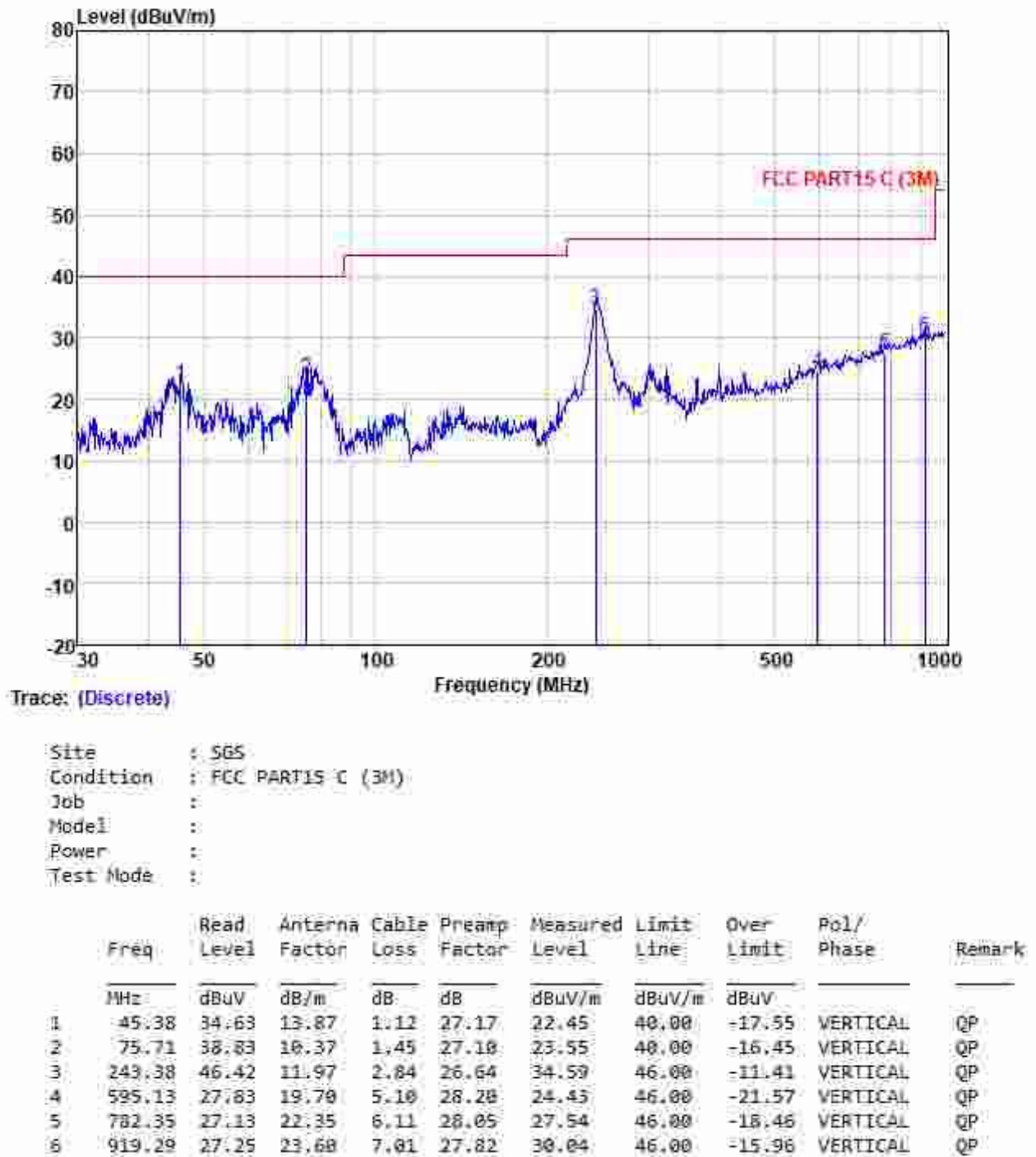
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



Test Mode: 01; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



**7.9 Radiated Spurious Emissions (Above 1GHz)**

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

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

Limit:

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

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

**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.5 °C

Humidity: 54.2 % RH

Atmospheric Pressure: 1010 mbar

**7.9.2 Test Mode Description**

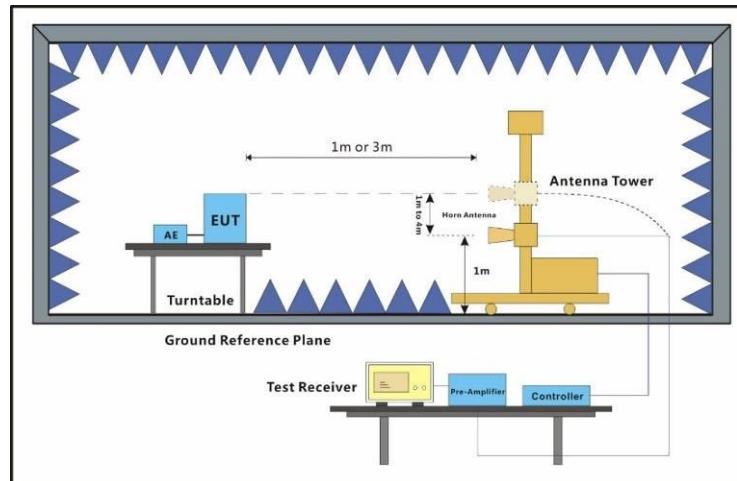
Pre-scan / Final test	Mode Code	Description
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Final test 01

TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.



### 7.9.3 Test Setup Diagram





#### 7.9.4 Measurement Procedure and Data

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

#### Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

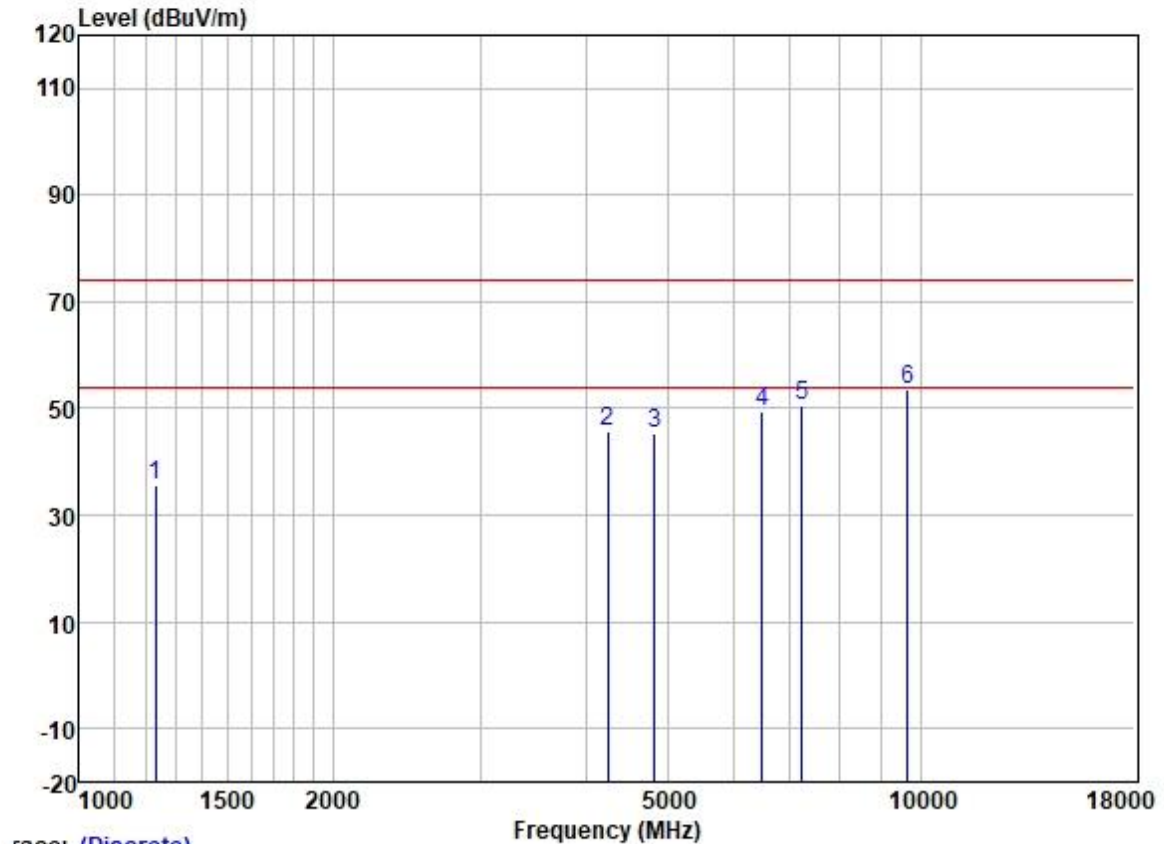
3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only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



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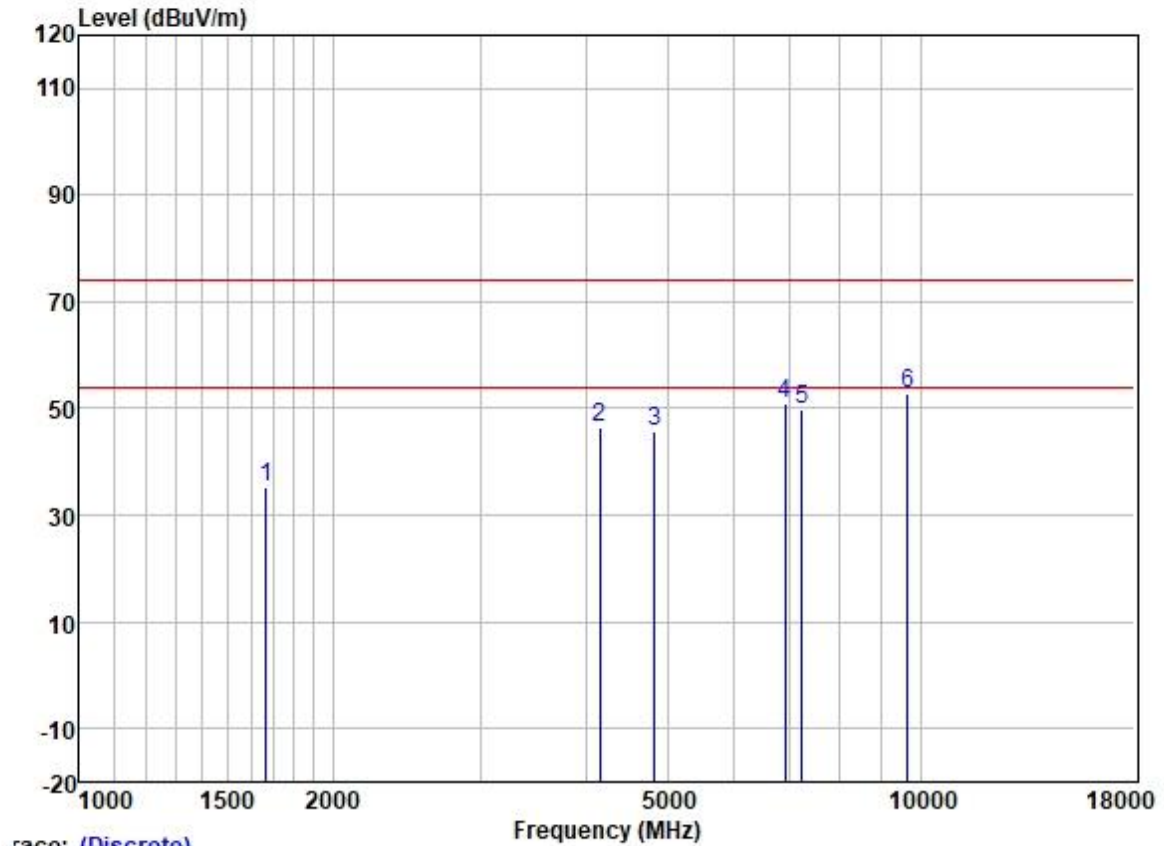
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1231.533	46.96	24.91	2.31	38.37	35.81	74.00	-38.19	HORIZONTAL Peak
2	4246.206	47.78	30.30	4.62	36.81	45.89	74.00	-28.11	HORIZONTAL Peak
3	4824.000	45.35	31.45	5.42	36.83	45.39	74.00	-28.61	HORIZONTAL Peak
4	6484.730	46.67	33.96	5.85	37.00	49.48	74.00	-24.52	HORIZONTAL Peak
5	7236.000	46.13	35.70	6.03	37.39	50.47	74.00	-23.53	HORIZONTAL Peak
6	9648.000	45.37	38.40	7.06	37.42	53.41	74.00	-20.59	HORIZONTAL Peak

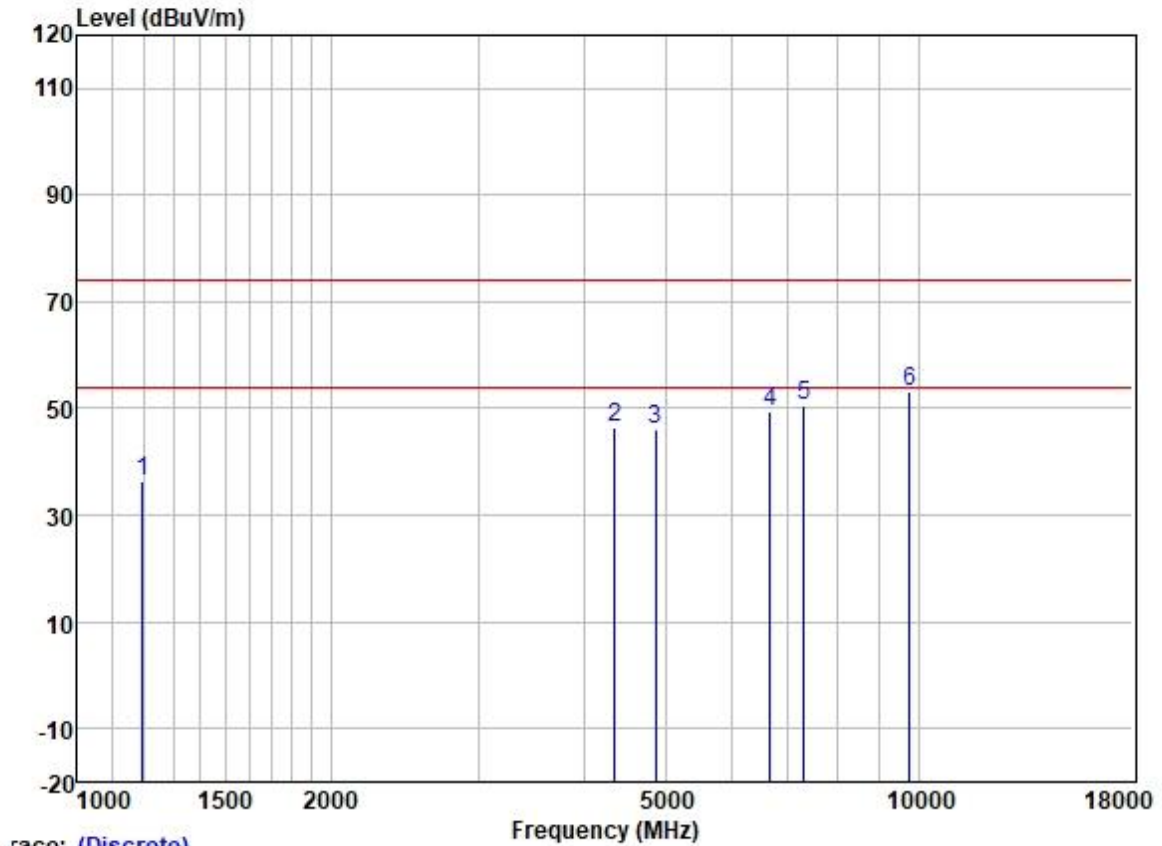
Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1668.229	44.67	25.66	2.80	37.91	35.22	74.00	-38.78	VERTICAL	Peak
2	4156.427	48.53	30.06	4.60	36.80	46.39	74.00	-27.61	VERTICAL	Peak
3	4824.000	45.55	31.45	5.42	36.83	45.59	74.00	-28.41	VERTICAL	Peak
4	6911.348	47.25	34.89	5.81	37.18	50.77	74.00	-23.23	VERTICAL	Peak
5	7236.000	45.38	35.70	6.03	37.39	49.72	74.00	-24.28	VERTICAL	Peak
6	9648.000	44.78	38.40	7.06	37.42	52.82	74.00	-21.18	VERTICAL	Peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

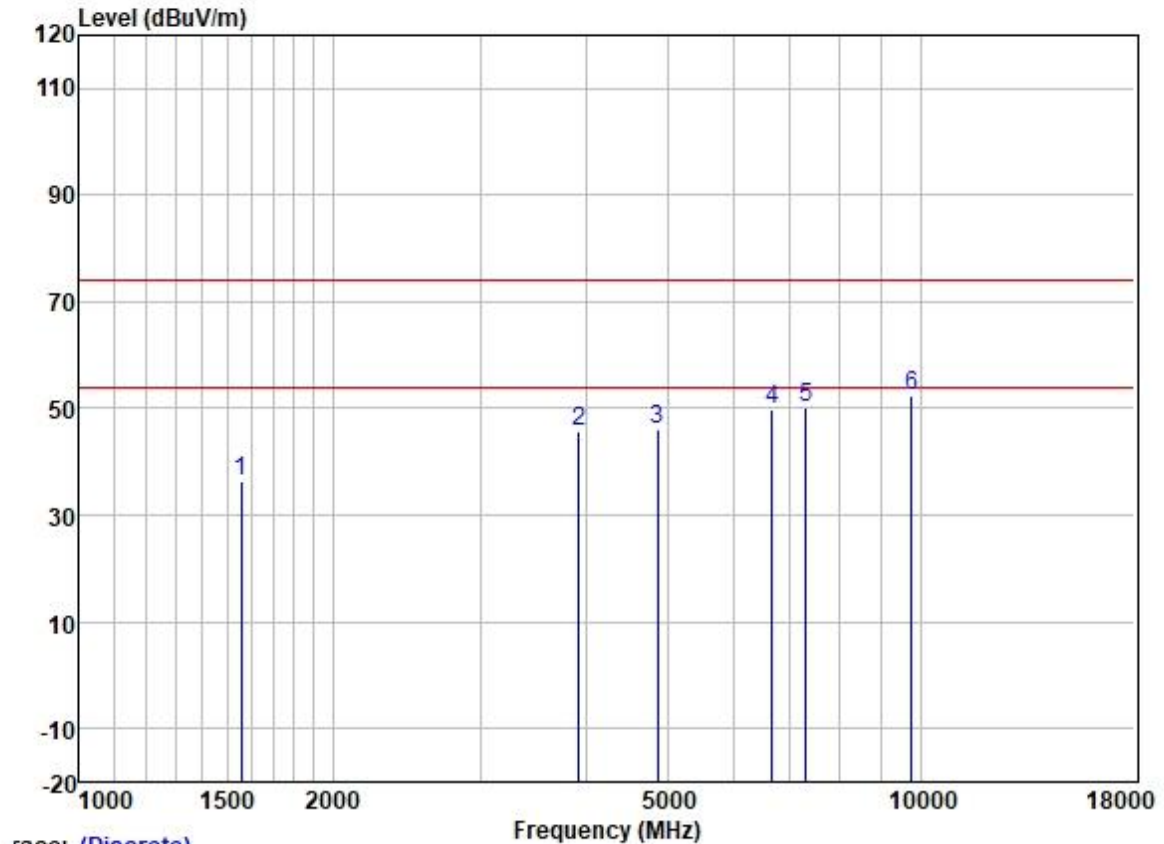


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1194.179	47.85	24.65	2.36	38.39	36.47	74.00	-37.53	HORIZONTAL	Peak
2	4352.870	47.86	30.59	4.68	36.81	46.32	74.00	-27.68	HORIZONTAL	Peak
3	4874.000	45.80	31.54	5.50	36.84	46.00	74.00	-28.00	HORIZONTAL	Peak
4	6665.648	46.50	34.29	5.83	37.07	49.55	74.00	-24.45	HORIZONTAL	Peak
5	7311.000	45.87	35.93	6.11	37.42	50.49	74.00	-23.51	HORIZONTAL	Peak
6	9748.000	45.03	38.50	7.02	37.41	53.14	74.00	-20.86	HORIZONTAL	Peak

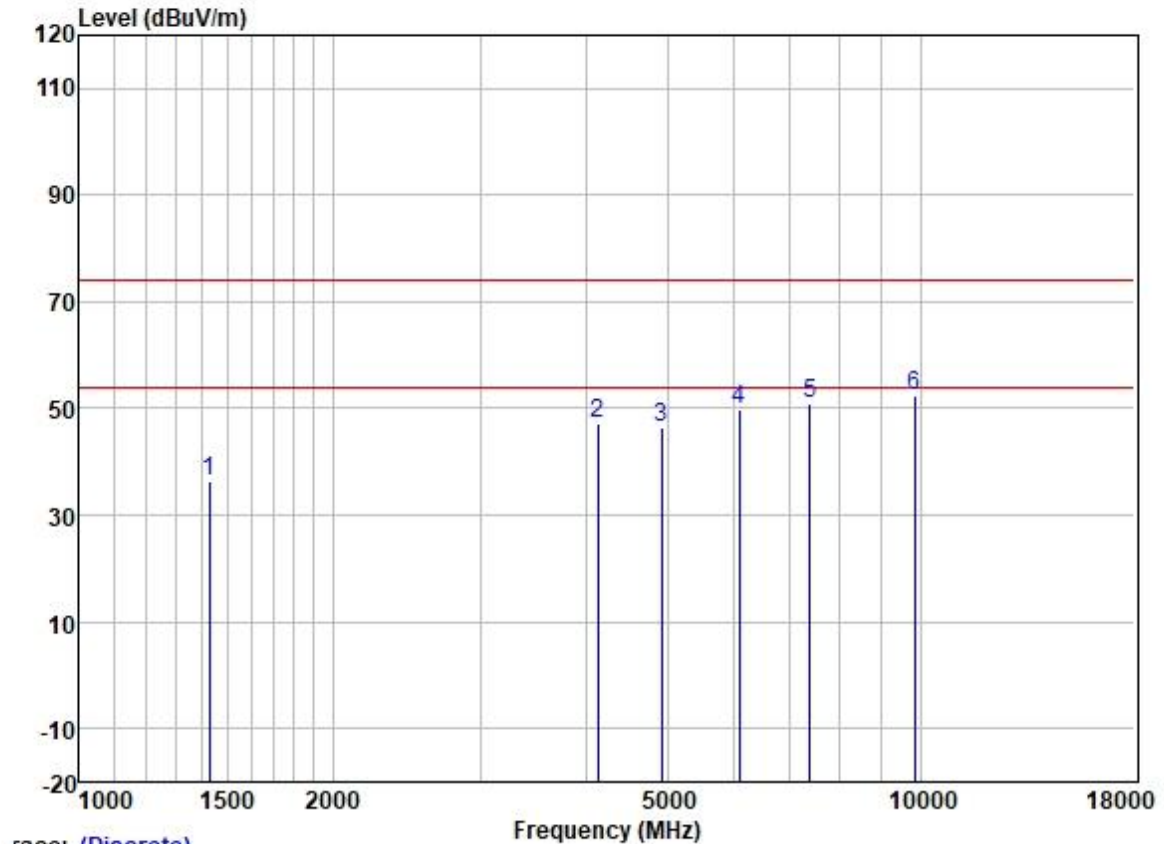


Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



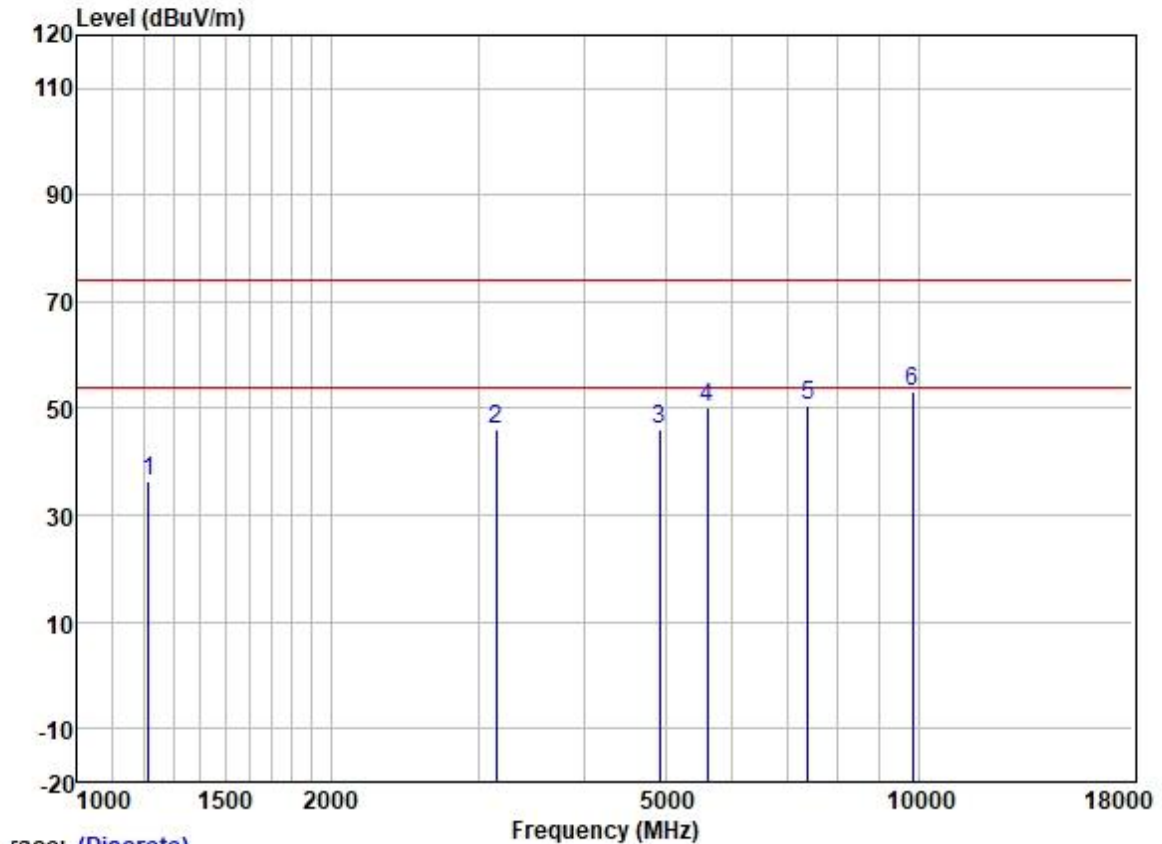
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1556.124	46.03	25.54	2.80	38.03	36.34	74.00	-37.66	VERTICAL	Peak
2	3927.642	48.36	29.72	4.60	36.82	45.86	74.00	-28.14	VERTICAL	Peak
3	4874.000	45.84	31.54	5.50	36.84	46.04	74.00	-27.96	VERTICAL	Peak
4	6657.543	46.60	34.29	5.83	37.06	49.66	74.00	-24.34	VERTICAL	Peak
5	7311.000	45.55	35.93	6.11	37.42	50.17	74.00	-23.83	VERTICAL	Peak
6	9748.000	44.45	38.50	7.02	37.41	52.56	74.00	-21.44	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1426.061	46.38	25.43	2.65	38.20	36.26	74.00	-37.74	HORIZONTAL	Peak
2	4133.886	49.30	30.01	4.60	36.80	47.11	74.00	-26.89	HORIZONTAL	Peak
3	4924.000	46.10	31.62	5.60	36.84	46.48	74.00	-27.52	HORIZONTAL	Peak
4	6083.228	47.93	32.61	6.15	36.91	49.78	74.00	-24.22	HORIZONTAL	Peak
5	7386.000	45.88	36.17	6.19	37.45	50.79	74.00	-23.21	HORIZONTAL	Peak
6	9848.000	44.09	38.58	6.99	37.41	52.25	74.00	-21.75	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

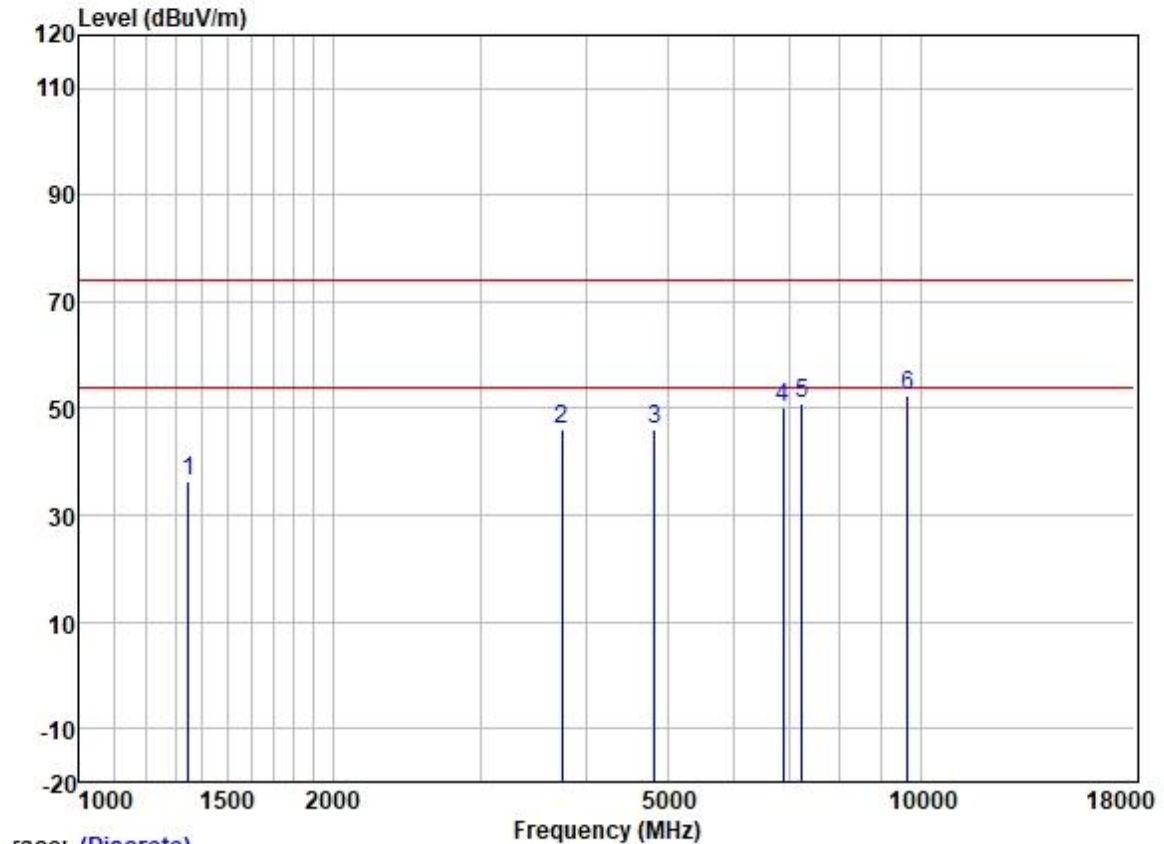


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1214.634	47.78	24.77	2.32	38.37	36.50	74.00	-37.50	VERTICAL	Peak
2	3150.024	50.57	28.52	3.96	37.12	45.93	74.00	-28.07	VERTICAL	Peak
3	4924.000	45.67	31.62	5.60	36.84	46.05	74.00	-27.95	VERTICAL	Peak
4	5615.265	48.97	31.91	6.32	36.89	50.31	74.00	-23.69	VERTICAL	Peak
5	7386.000	45.70	36.17	6.19	37.45	50.61	74.00	-23.39	VERTICAL	Peak
6	9848.000	44.93	38.58	6.99	37.41	53.09	74.00	-20.91	VERTICAL	Peak



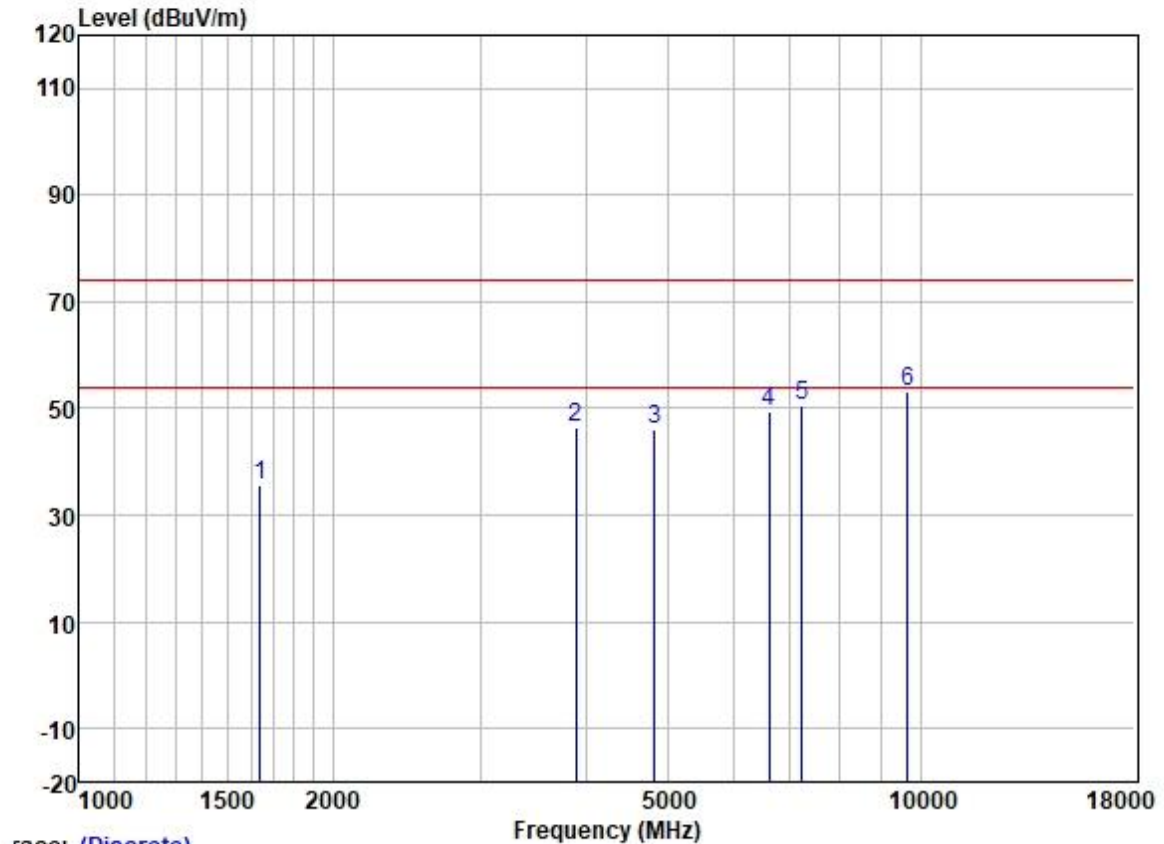
Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1346.802	46.70	25.31	2.60	38.27	36.34	74.00	-37.66	HORIZONTAL Peak
2	3745.953	48.82	29.39	4.58	36.86	45.93	74.00	-28.07	HORIZONTAL Peak
3	4824.000	46.05	31.45	5.42	36.83	46.09	74.00	-27.91	HORIZONTAL Peak
4	6857.552	46.58	34.78	5.82	37.15	50.03	74.00	-23.97	HORIZONTAL Peak
5	7236.000	46.71	35.70	6.03	37.39	51.05	74.00	-22.95	HORIZONTAL Peak
6	9648.000	44.55	38.40	7.06	37.42	52.59	74.00	-21.41	HORIZONTAL Peak



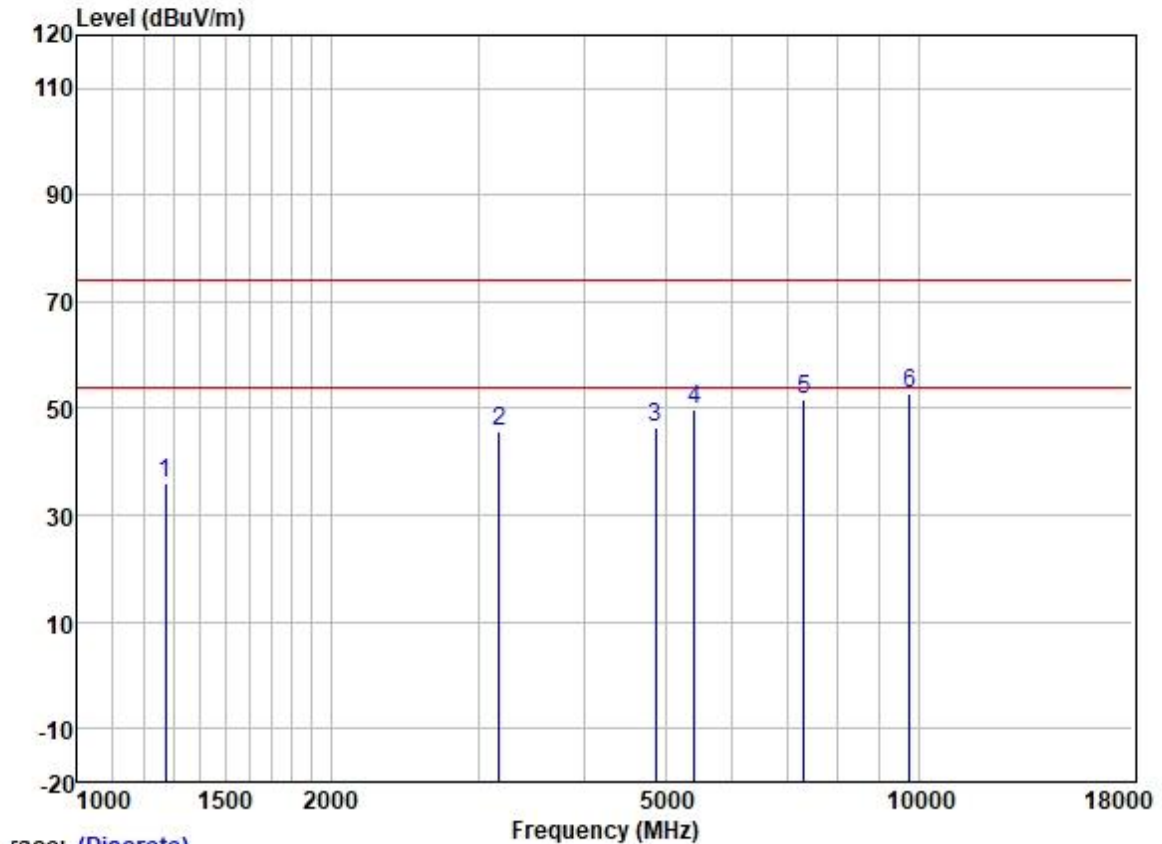
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

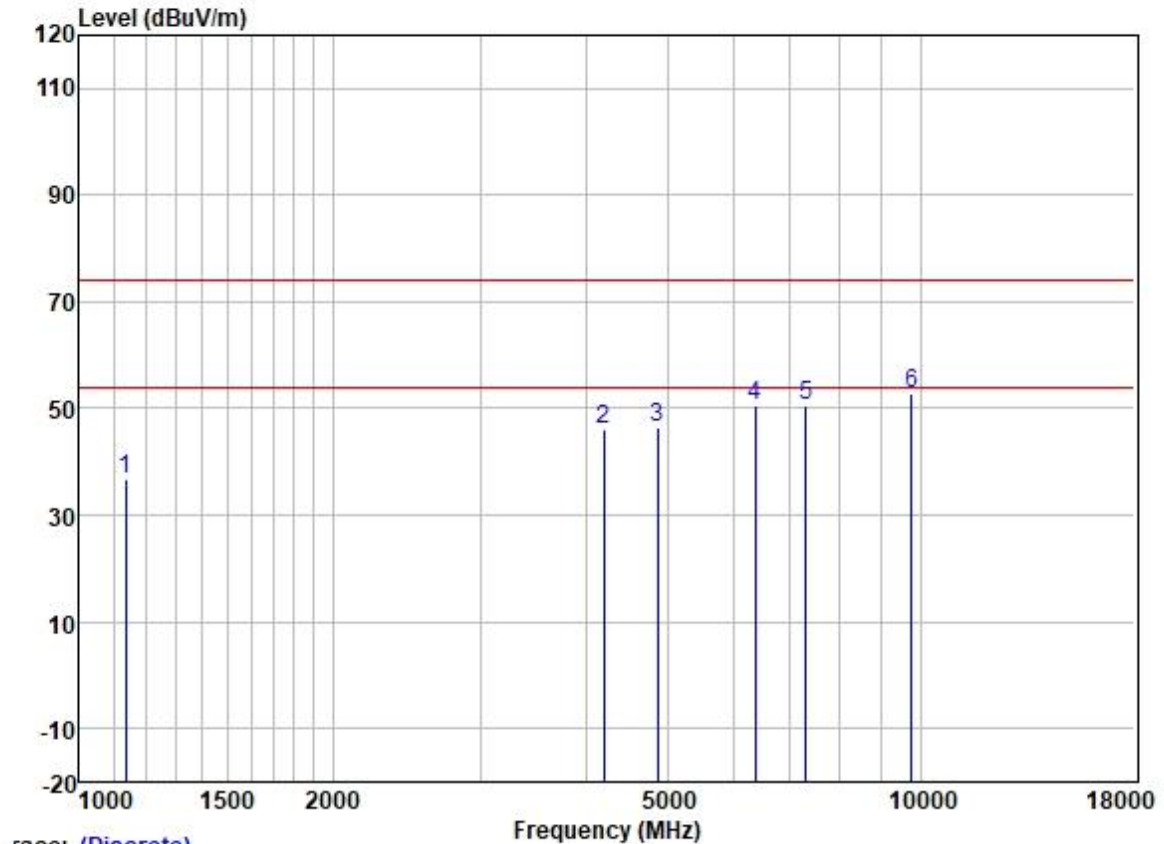
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1638.874	45.28	25.62	2.80	37.93	35.77	74.00	-38.23	VERTICAL Peak
2	3890.191	48.92	29.67	4.60	36.82	46.37	74.00	-27.63	VERTICAL Peak
3	4824.000	45.98	31.45	5.42	36.83	46.02	74.00	-27.98	VERTICAL Peak
4	6605.662	46.59	34.16	5.84	37.04	49.55	74.00	-24.45	VERTICAL Peak
5	7236.000	46.06	35.70	6.03	37.39	50.40	74.00	-23.60	VERTICAL Peak
6	9648.000	45.29	38.40	7.06	37.42	53.33	74.00	-20.67	VERTICAL Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1273.748	46.67	25.12	2.48	38.33	35.94	74.00	-38.06	HORIZONTAL Peak
2	3176.638	50.15	28.56	3.99	37.10	45.60	74.00	-28.40	HORIZONTAL Peak
3	4874.000	46.29	31.54	5.50	36.84	46.49	74.00	-27.51	HORIZONTAL Peak
4	5419.622	48.72	31.79	6.13	36.88	49.76	74.00	-24.24	HORIZONTAL Peak
5	7311.000	47.09	35.93	6.11	37.42	51.71	74.00	-22.29	HORIZONTAL Peak
6	9748.000	44.56	38.50	7.02	37.41	52.67	74.00	-21.33	HORIZONTAL Peak

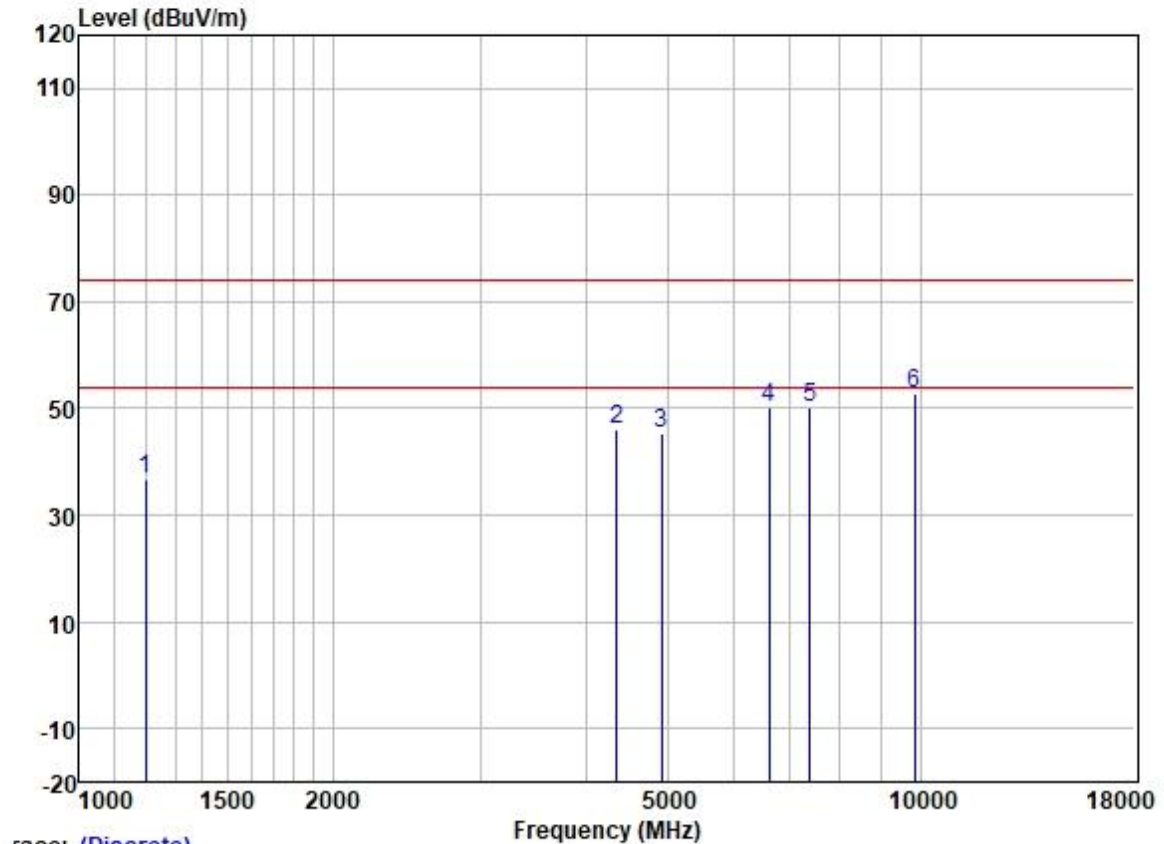
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1135.530	48.30	24.45	2.25	38.43	36.57	74.00	-37.43	VERTICAL	Peak
2	4197.182	48.13	30.15	4.60	36.81	46.07	74.00	-27.93	VERTICAL	Peak
3	4874.000	46.23	31.54	5.50	36.84	46.43	74.00	-27.57	VERTICAL	Peak
4	6363.651	47.83	33.63	5.92	36.98	50.40	74.00	-23.60	VERTICAL	Peak
5	7311.000	46.07	35.93	6.11	37.42	50.69	74.00	-23.31	VERTICAL	Peak
6	9748.000	44.87	38.50	7.02	37.41	52.98	74.00	-21.02	VERTICAL	Peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

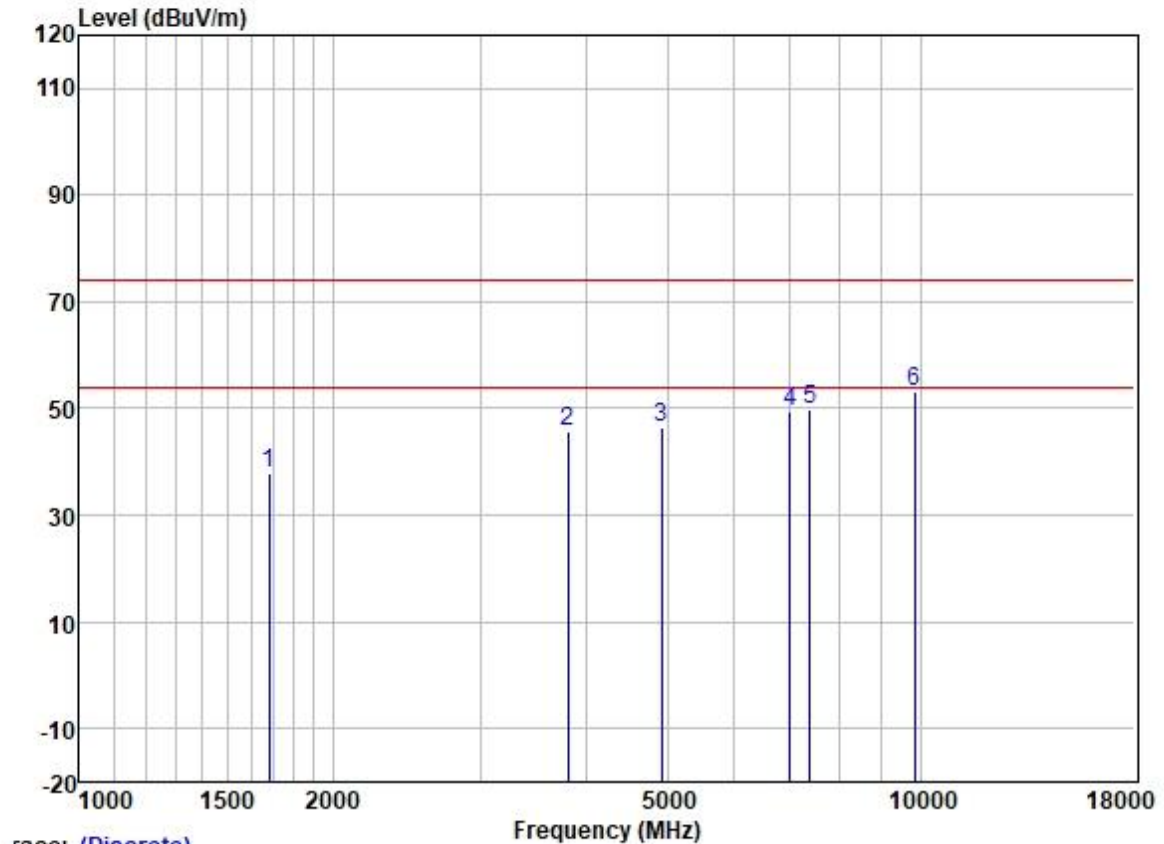


race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1200.222	48.21	24.68	2.34	38.39	36.84	74.00	-37.16	HORIZONTAL Peak
2	4351.759	47.51	30.59	4.68	36.81	45.97	74.00	-28.03	HORIZONTAL Peak
3	4924.000	44.85	31.62	5.60	36.84	45.23	74.00	-28.77	HORIZONTAL Peak
4	6616.195	47.24	34.20	5.83	37.05	50.22	74.00	-23.78	HORIZONTAL Peak
5	7386.000	45.19	36.17	6.19	37.45	50.10	74.00	-23.90	HORIZONTAL Peak
6	9848.000	44.55	38.58	6.99	37.41	52.71	74.00	-21.29	HORIZONTAL Peak



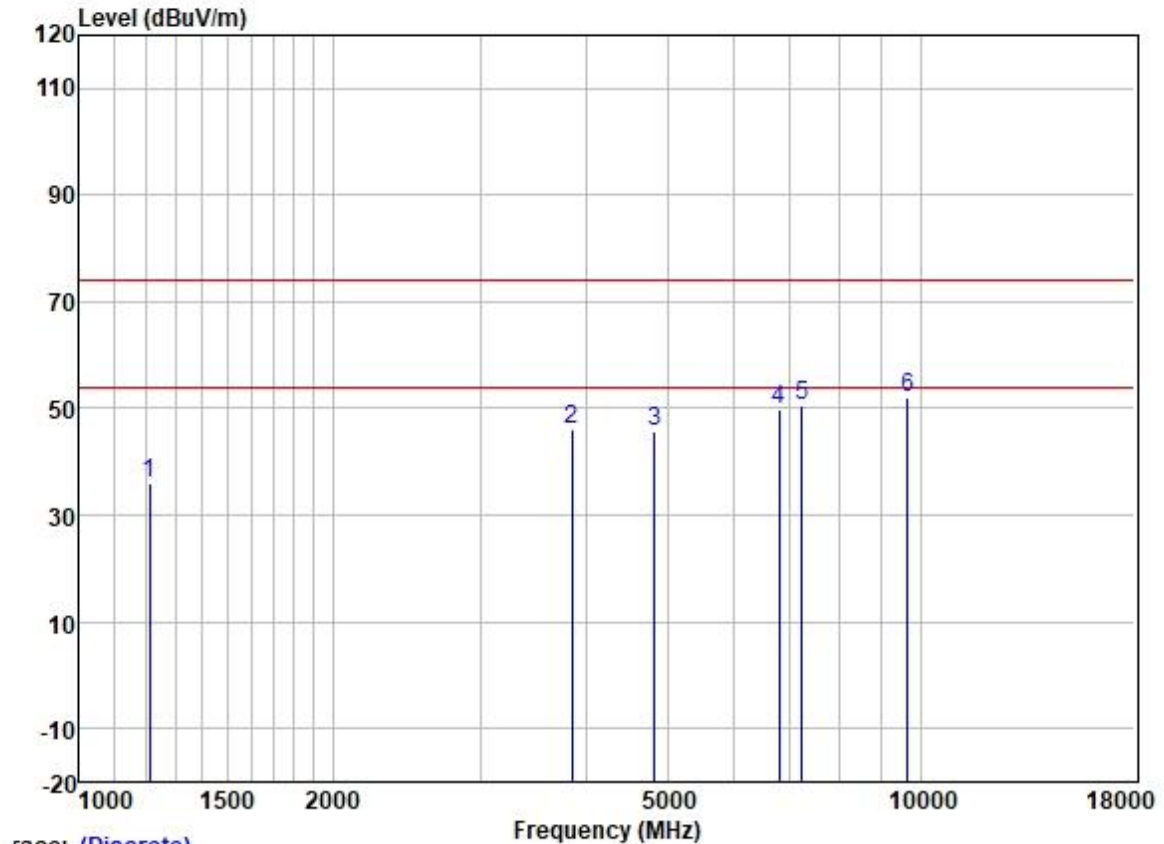
Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1680.633	47.47	25.68	2.80	37.91	38.04	74.00	-35.96	VERTICAL	Peak
2	3808.738	48.43	29.55	4.60	36.85	45.73	74.00	-28.27	VERTICAL	Peak
3	4924.000	46.04	31.62	5.60	36.84	46.42	74.00	-27.58	VERTICAL	Peak
4	6992.935	46.06	35.00	5.81	37.25	49.62	74.00	-24.38	VERTICAL	Peak
5	7386.000	44.95	36.17	6.19	37.45	49.86	74.00	-24.14	VERTICAL	Peak
6	9848.000	45.15	38.58	6.99	37.41	53.31	74.00	-20.69	VERTICAL	Peak

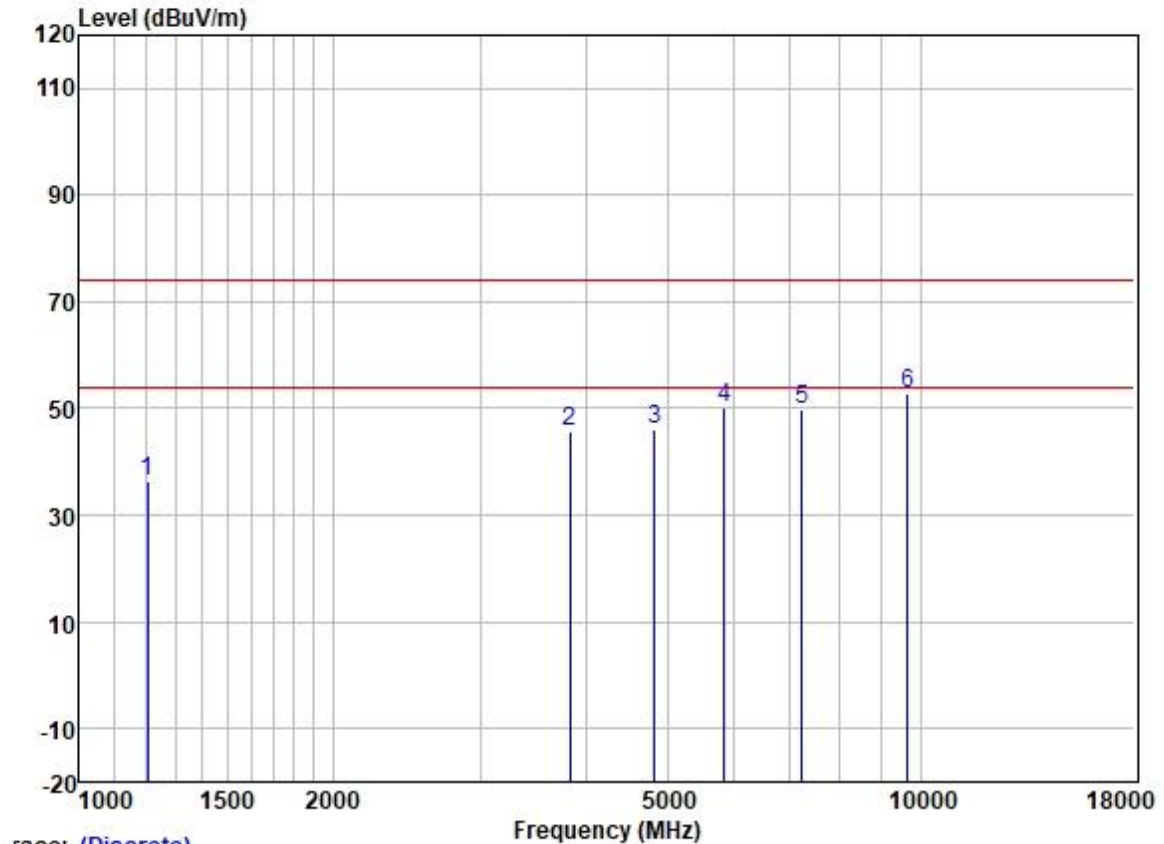
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1211.167	47.36	24.74	2.33	38.39	36.04	74.00	-37.96	HORIZONTAL	Peak
2	3852.722	48.73	29.62	4.60	36.84	46.11	74.00	-27.89	HORIZONTAL	Peak
3	4824.000	45.85	31.45	5.42	36.83	45.89	74.00	-28.11	HORIZONTAL	Peak
4	6797.692	46.61	34.66	5.82	37.12	49.97	74.00	-24.03	HORIZONTAL	Peak
5	7236.000	46.19	35.70	6.03	37.39	50.53	74.00	-23.47	HORIZONTAL	Peak
6	9648.000	44.16	38.40	7.06	37.42	52.20	74.00	-21.80	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

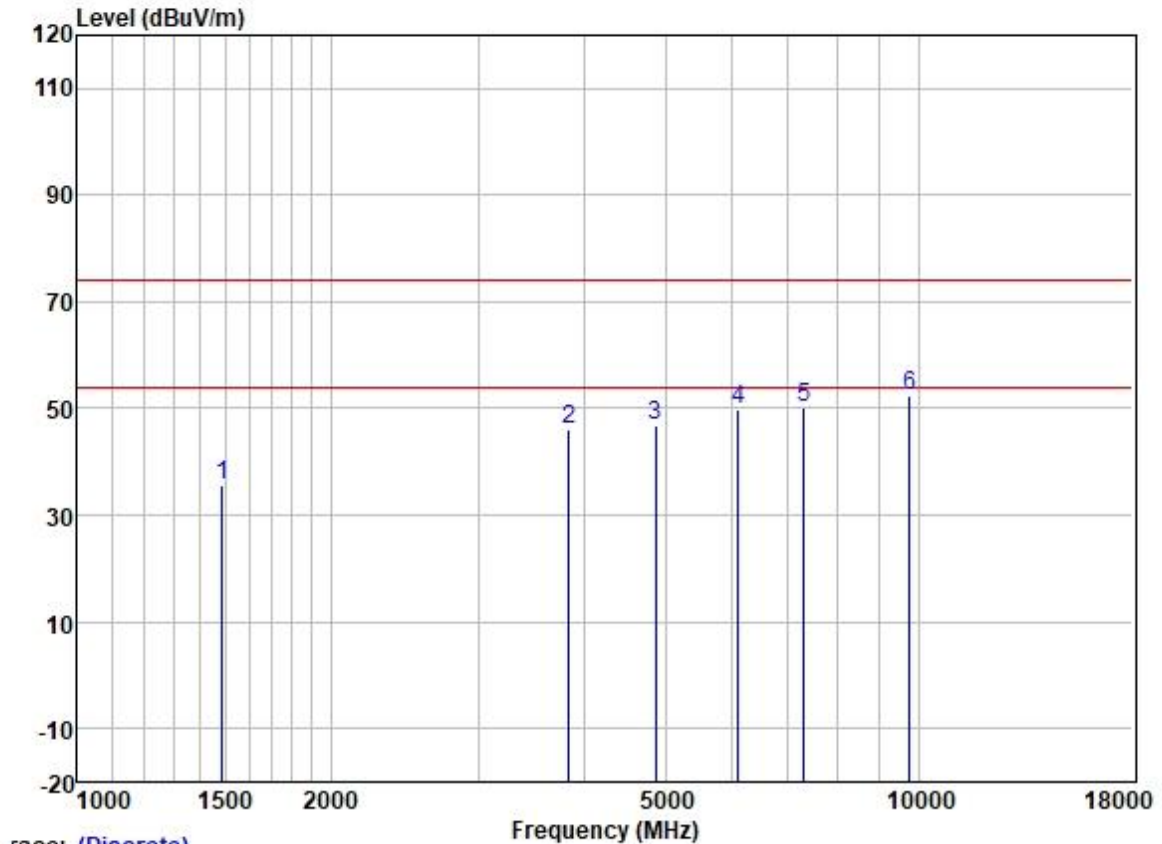


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1205.092	47.61	24.72	2.33	38.39	36.27	74.00	-37.73	VERTICAL	Peak
2	3829.425	48.25	29.59	4.60	36.84	45.60	74.00	-28.40	VERTICAL	Peak
3	4824.000	46.03	31.45	5.42	36.83	46.07	74.00	-27.93	VERTICAL	Peak
4	5849.205	48.73	32.25	6.00	36.90	50.08	74.00	-23.92	VERTICAL	Peak
5	7236.000	45.44	35.70	6.03	37.39	49.78	74.00	-24.22	VERTICAL	Peak
6	9648.000	44.59	38.40	7.06	37.42	52.63	74.00	-21.37	VERTICAL	Peak

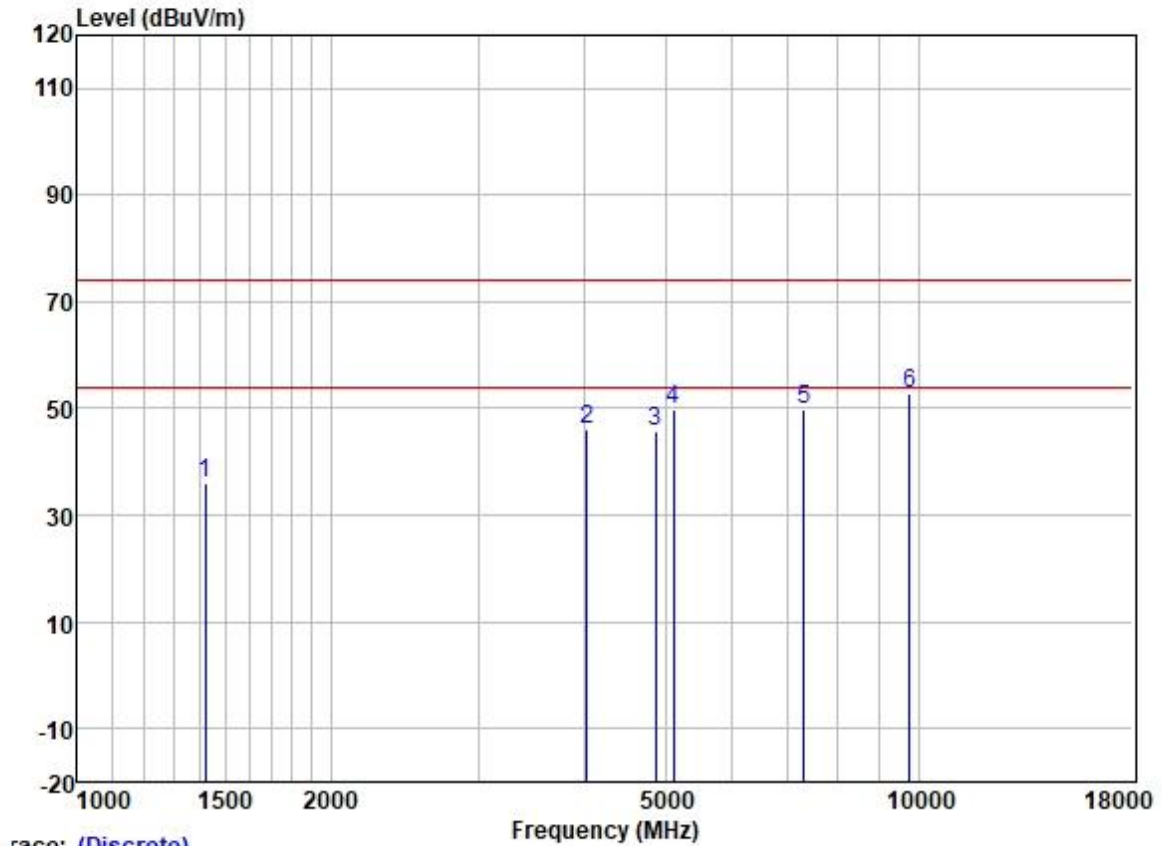


Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



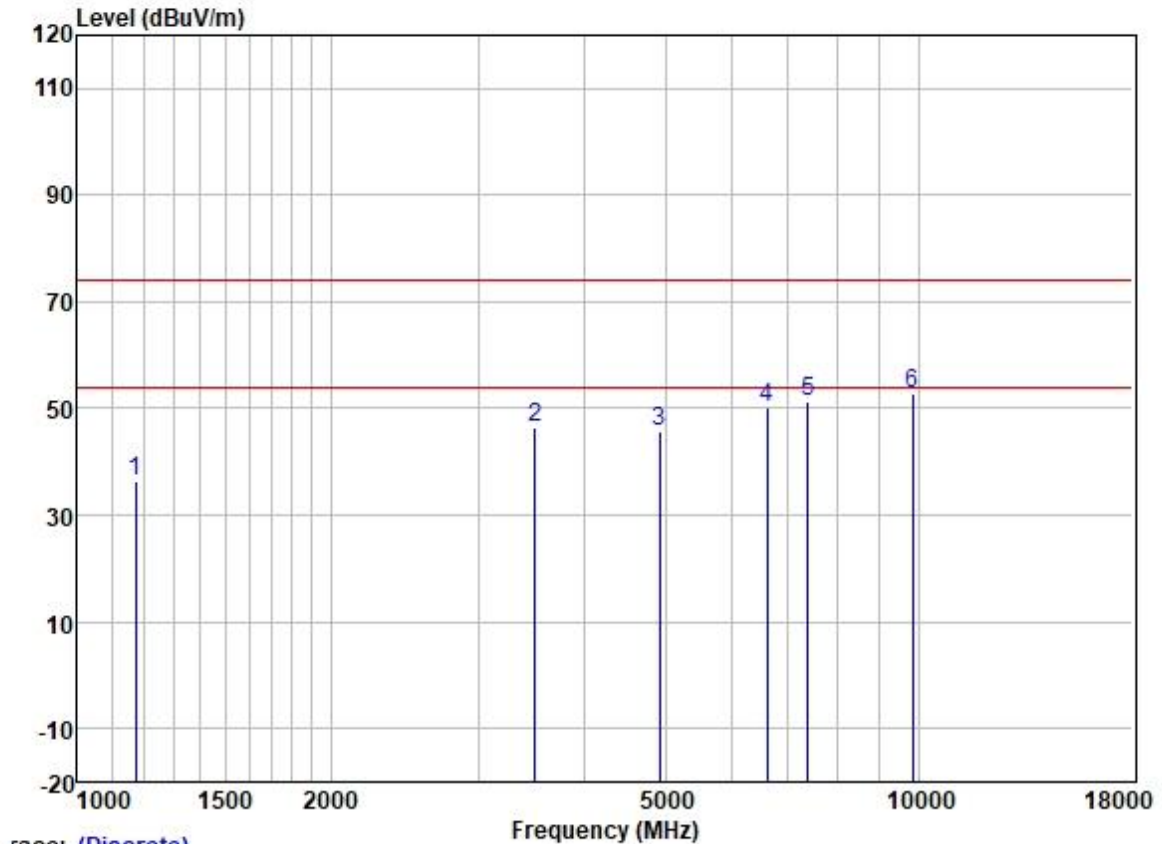
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1488.807	45.29	25.49	2.79	38.10	35.47	74.00	-38.53	HORIZONTAL	Peak
2	3836.845	48.80	29.59	4.60	36.84	46.15	74.00	-27.85	HORIZONTAL	Peak
3	4874.000	46.54	31.54	5.50	36.84	46.74	74.00	-27.26	HORIZONTAL	Peak
4	6106.805	47.85	32.66	6.14	36.92	49.73	74.00	-24.27	HORIZONTAL	Peak
5	7311.000	45.51	35.93	6.11	37.42	50.13	74.00	-23.87	HORIZONTAL	Peak
6	9748.000	44.34	38.50	7.02	37.41	52.45	74.00	-21.55	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1419.216	46.00	25.42	2.63	38.20	35.85	74.00	-38.15	VERTICAL	Peak
2	4036.055	48.31	29.85	4.60	36.80	45.96	74.00	-28.04	VERTICAL	Peak
3	4874.000	45.56	31.54	5.50	36.84	45.76	74.00	-28.24	VERTICAL	Peak
4	5119.209	49.30	31.72	5.64	36.86	49.80	74.00	-24.20	VERTICAL	Peak
5	7311.000	45.34	35.93	6.11	37.42	49.96	74.00	-24.04	VERTICAL	Peak
6	9748.000	44.76	38.50	7.02	37.41	52.87	74.00	-21.13	VERTICAL	Peak

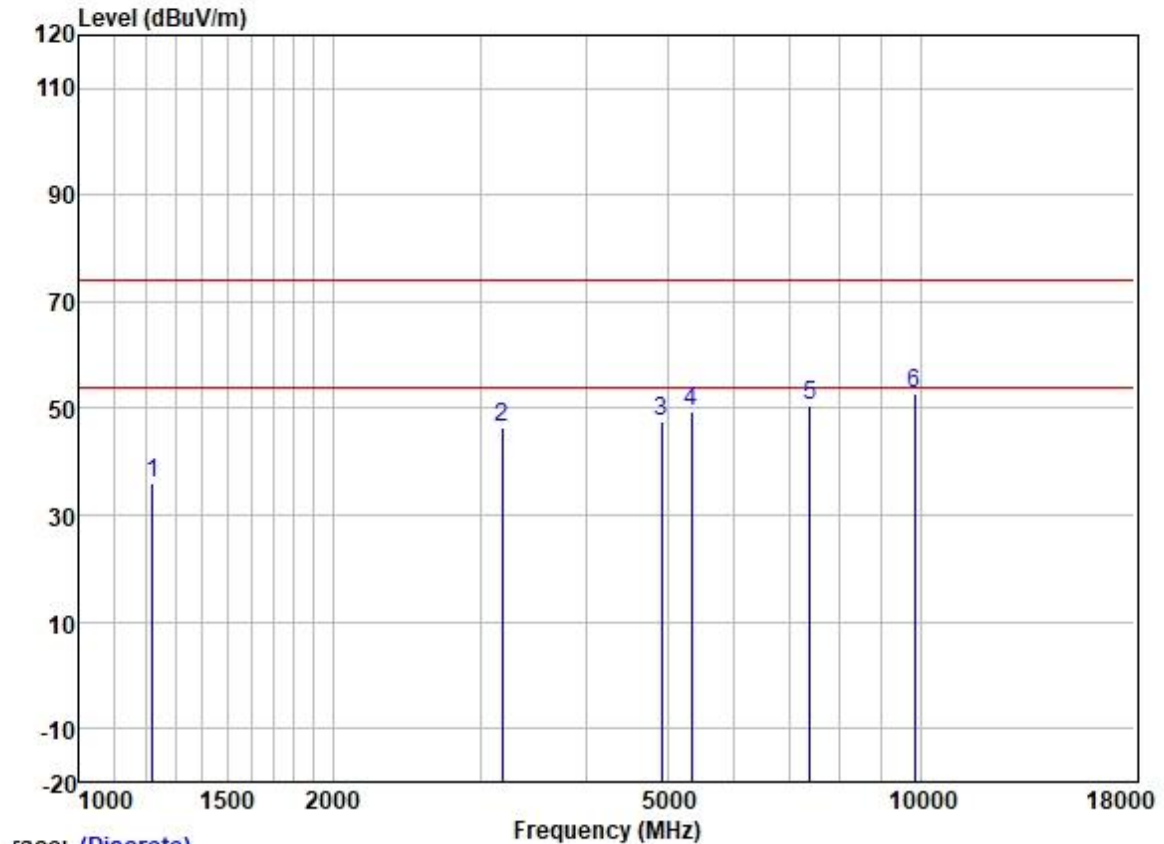
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1173.545	47.80	24.56	2.39	38.40	36.35	74.00	-37.65	HORIZONTAL	Peak
2	3501.128	50.08	28.91	4.33	36.94	46.38	74.00	-27.62	HORIZONTAL	Peak
3	4924.000	45.42	31.62	5.60	36.84	45.80	74.00	-28.20	HORIZONTAL	Peak
4	6614.898	47.16	34.20	5.83	37.05	50.14	74.00	-23.86	HORIZONTAL	Peak
5	7386.000	46.33	36.17	6.19	37.45	51.24	74.00	-22.76	HORIZONTAL	Peak
6	9848.000	44.79	38.58	6.99	37.41	52.95	74.00	-21.05	HORIZONTAL	Peak

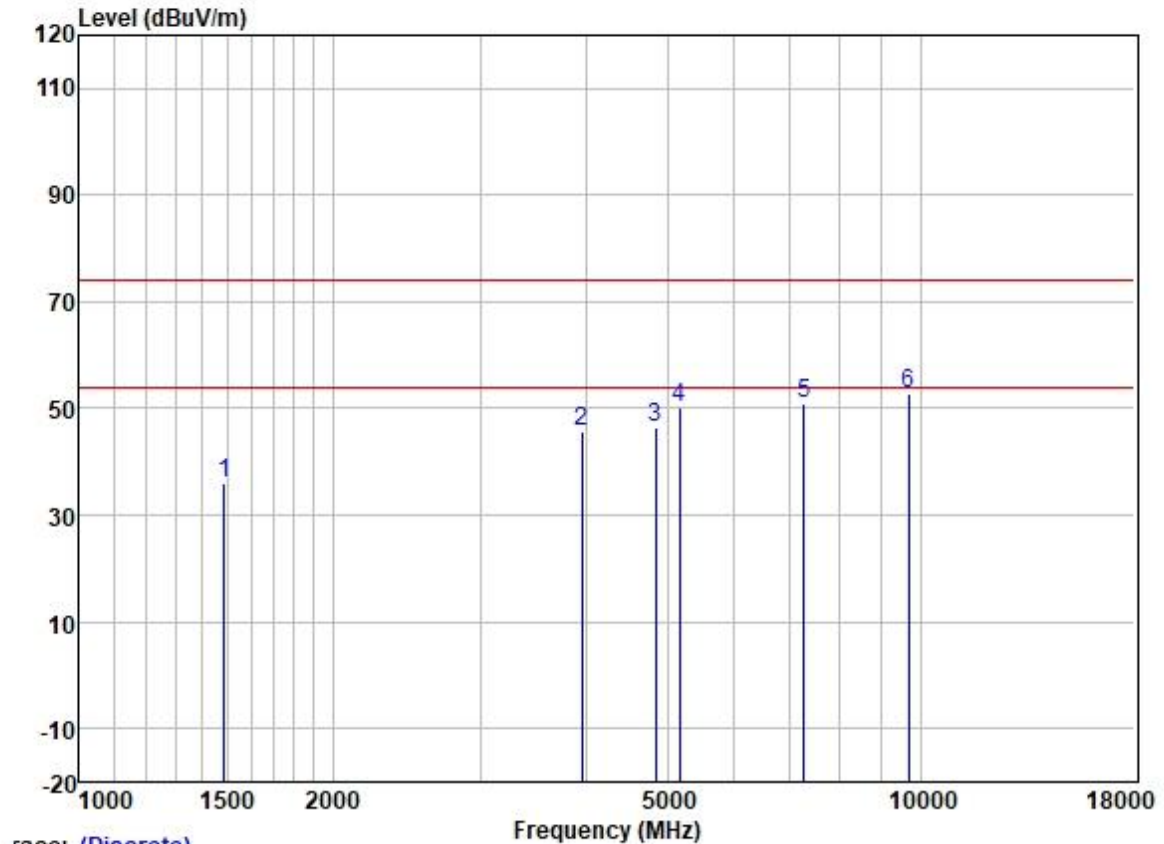


Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



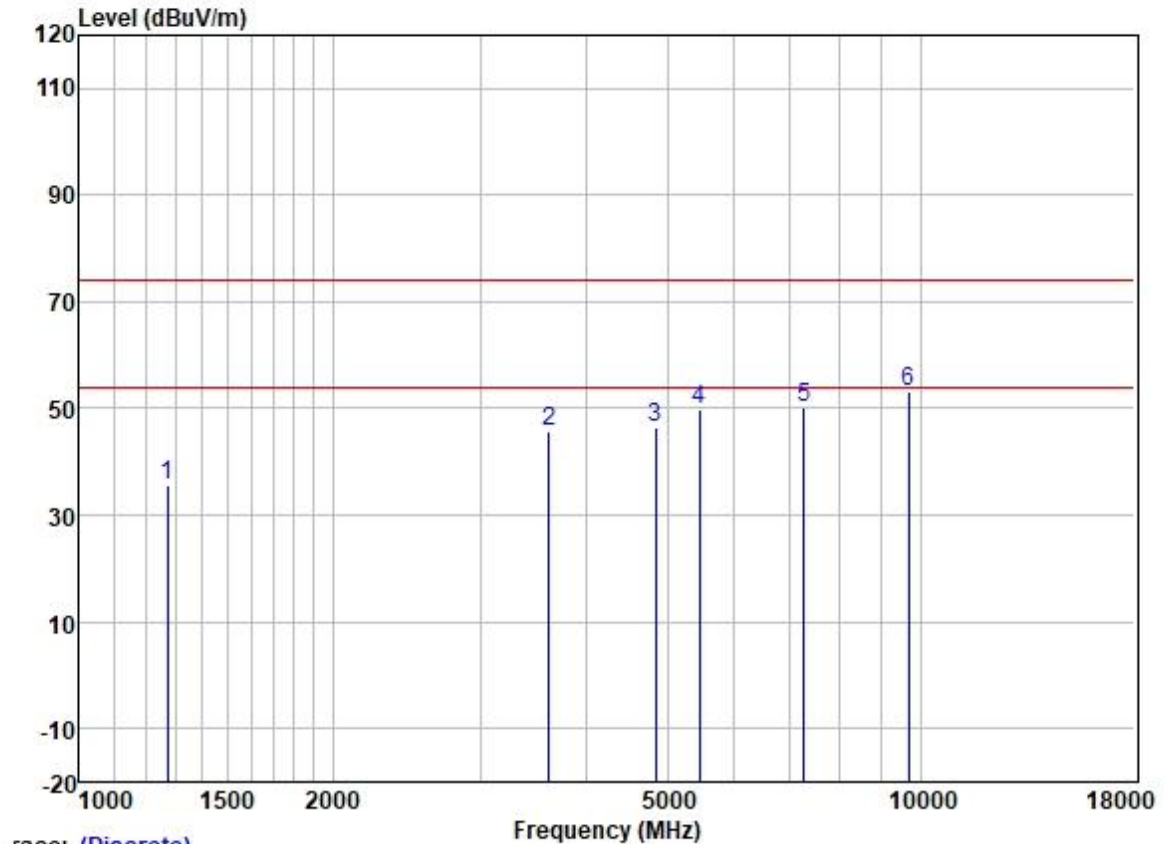
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1223.125	47.08	24.85	2.31	38.37	35.87	74.00	-38.13	VERTICAL	Peak
2	3183.309	50.99	28.57	3.99	37.10	46.45	74.00	-27.55	VERTICAL	Peak
3	4924.000	47.08	31.62	5.60	36.84	47.46	74.00	-26.54	VERTICAL	Peak
4	5341.386	48.45	31.77	6.05	36.88	49.39	74.00	-24.61	VERTICAL	Peak
5	7386.000	45.65	36.17	6.19	37.45	50.56	74.00	-23.44	VERTICAL	Peak
6	9848.000	44.66	38.58	6.99	37.41	52.82	74.00	-21.18	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1486.174	45.78	25.49	2.78	38.13	35.92	74.00	-38.08	HORIZONTAL Peak
2	3960.618	48.00	29.75	4.60	36.81	45.54	74.00	-28.46	HORIZONTAL Peak
3	4844.000	46.45	31.50	5.45	36.84	46.56	74.00	-27.44	HORIZONTAL Peak
4	5166.165	49.59	31.73	5.61	36.87	50.06	74.00	-23.94	HORIZONTAL Peak
5	7266.000	46.35	35.78	6.06	37.41	50.78	74.00	-23.22	HORIZONTAL Peak
6	9688.000	44.75	38.44	7.04	37.42	52.81	74.00	-21.19	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

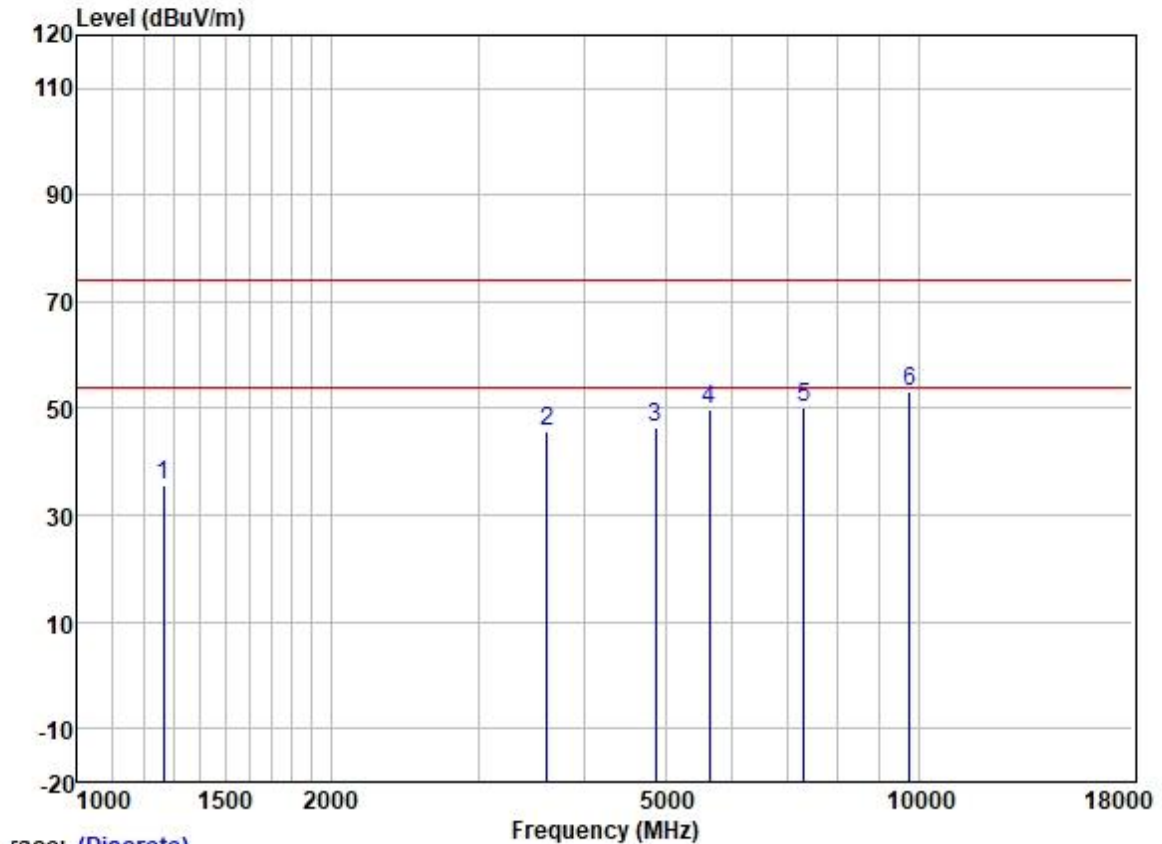


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1273.450	46.44	25.12	2.48	38.33	35.71	74.00	-38.29	VERTICAL Peak
2	3621.169	49.18	29.07	4.51	36.90	45.86	74.00	-28.14	VERTICAL Peak
3	4844.000	46.20	31.50	5.45	36.84	46.31	74.00	-27.69	VERTICAL Peak
4	5467.289	48.63	31.80	6.31	36.88	49.86	74.00	-24.14	VERTICAL Peak
5	7266.000	45.60	35.78	6.06	37.41	50.03	74.00	-23.97	VERTICAL Peak
6	9688.000	45.08	38.44	7.04	37.42	53.14	74.00	-20.86	VERTICAL Peak

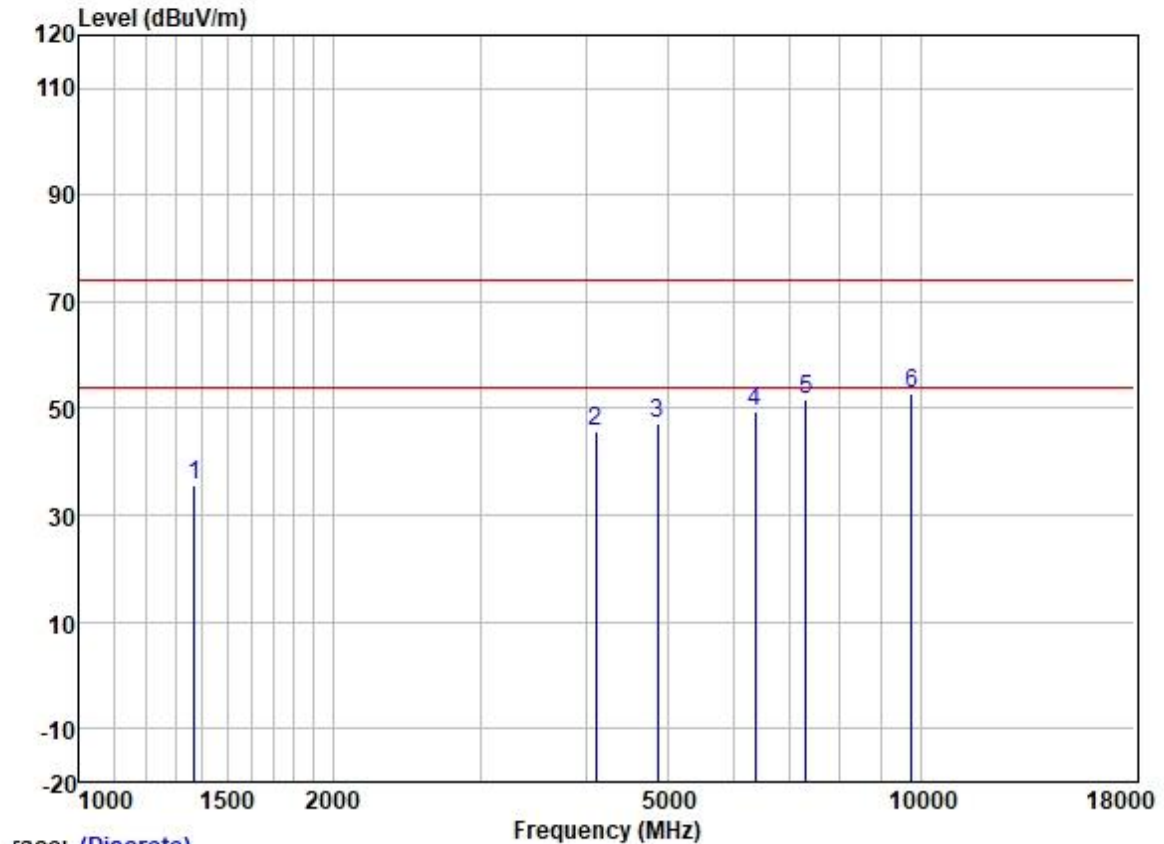


Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



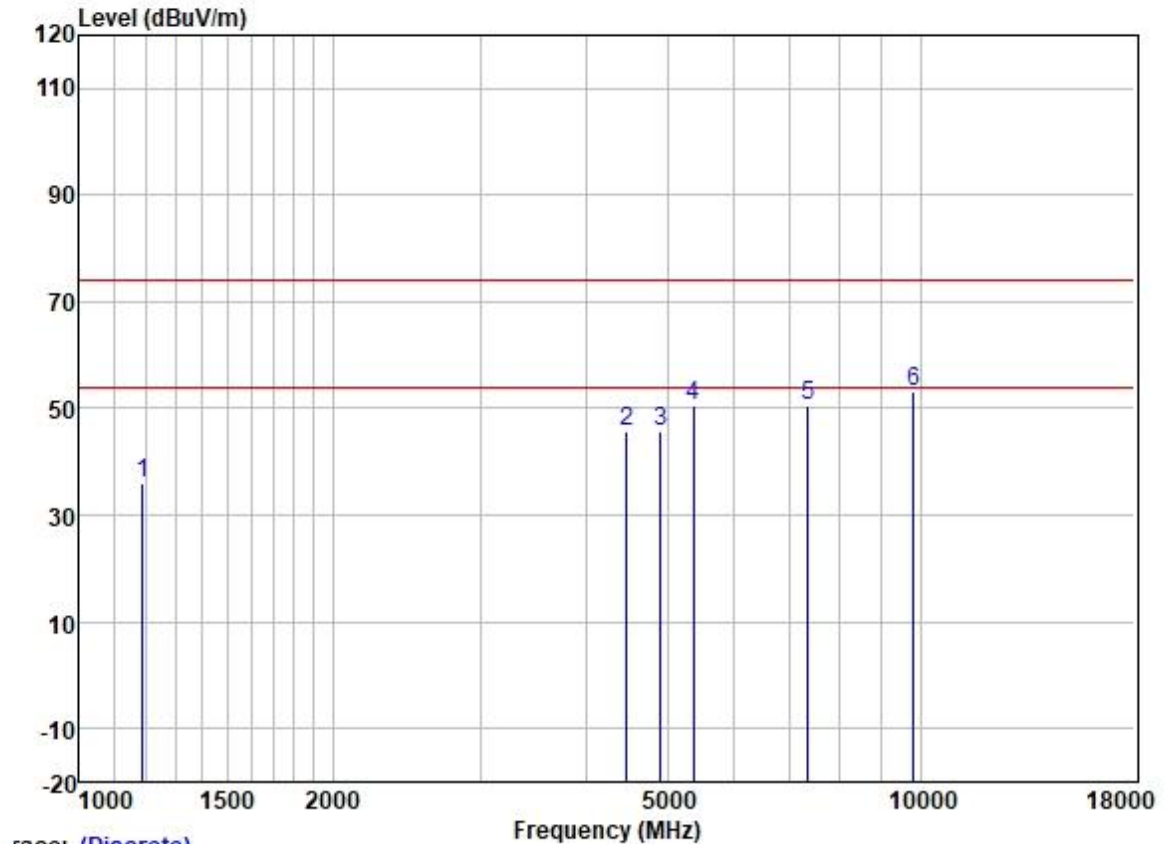
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1265.557	46.33	25.08	2.42	38.33	35.50	74.00	-38.50	HORIZONTAL Peak
2	3615.705	49.19	29.07	4.51	36.90	45.87	74.00	-28.13	HORIZONTAL Peak
3	4874.000	46.31	31.54	5.50	36.84	46.51	74.00	-27.49	HORIZONTAL Peak
4	5635.674	48.26	31.93	6.33	36.89	49.63	74.00	-24.37	HORIZONTAL Peak
5	7311.000	45.43	35.93	6.11	37.42	50.05	74.00	-23.95	HORIZONTAL Peak
6	9748.000	44.96	38.50	7.02	37.41	53.07	74.00	-20.93	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1368.891	45.80	25.35	2.60	38.25	35.50	74.00	-38.50	VERTICAL	Peak
2	4106.355	48.10	29.96	4.60	36.80	45.86	74.00	-28.14	VERTICAL	Peak
3	4874.000	46.84	31.54	5.50	36.84	47.04	74.00	-26.96	VERTICAL	Peak
4	6364.103	46.99	33.63	5.92	36.98	49.56	74.00	-24.44	VERTICAL	Peak
5	7311.000	46.99	35.93	6.11	37.42	51.61	74.00	-22.39	VERTICAL	Peak
6	9748.000	44.72	38.50	7.02	37.41	52.83	74.00	-21.17	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

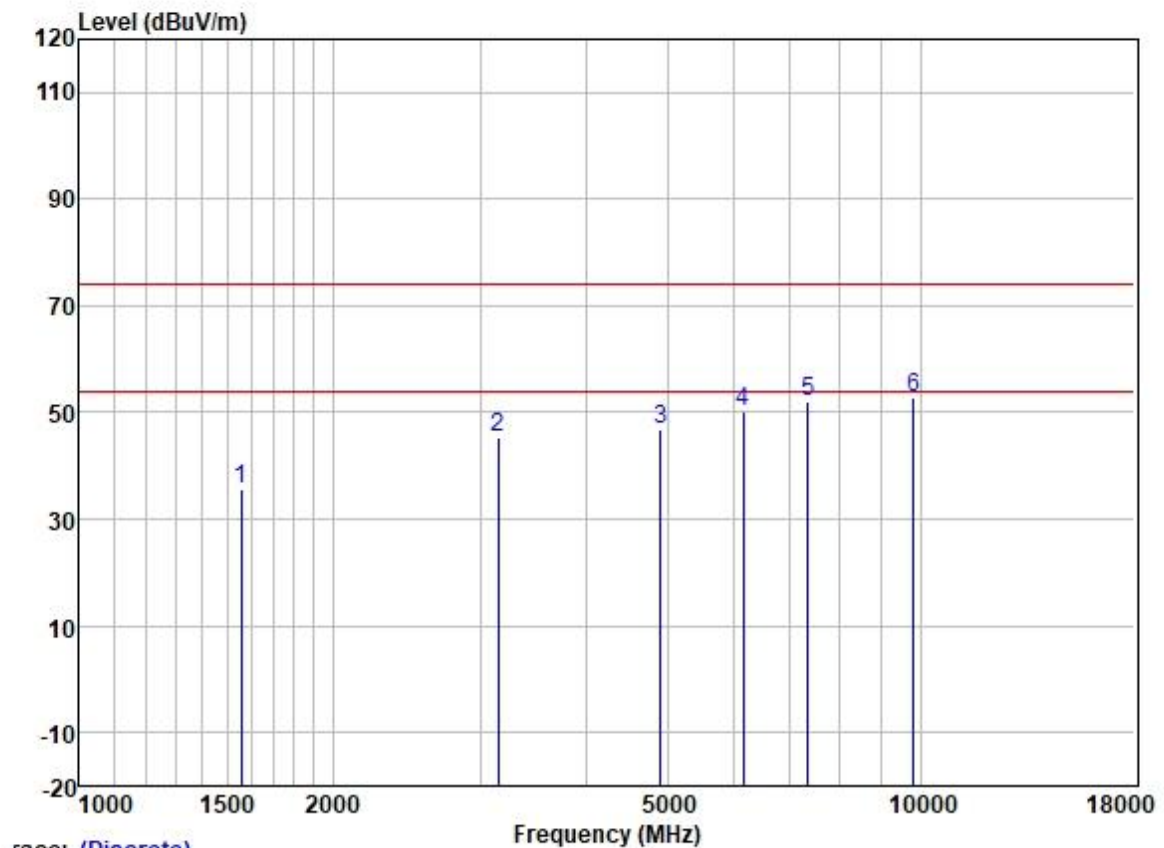


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1189.556	47.42	24.63	2.36	38.39	36.02	74.00	-37.98	HORIZONTAL Peak
2	4473.453	46.64	30.77	4.93	36.81	45.53	74.00	-28.47	HORIZONTAL Peak
3	4904.000	45.56	31.58	5.55	36.84	45.85	74.00	-28.15	HORIZONTAL Peak
4	5375.350	49.72	31.78	6.02	36.88	50.64	74.00	-23.36	HORIZONTAL Peak
5	7356.000	45.80	36.06	6.15	37.44	50.57	74.00	-23.43	HORIZONTAL Peak
6	9808.000	45.04	38.56	7.00	37.41	53.19	74.00	-20.81	HORIZONTAL Peak

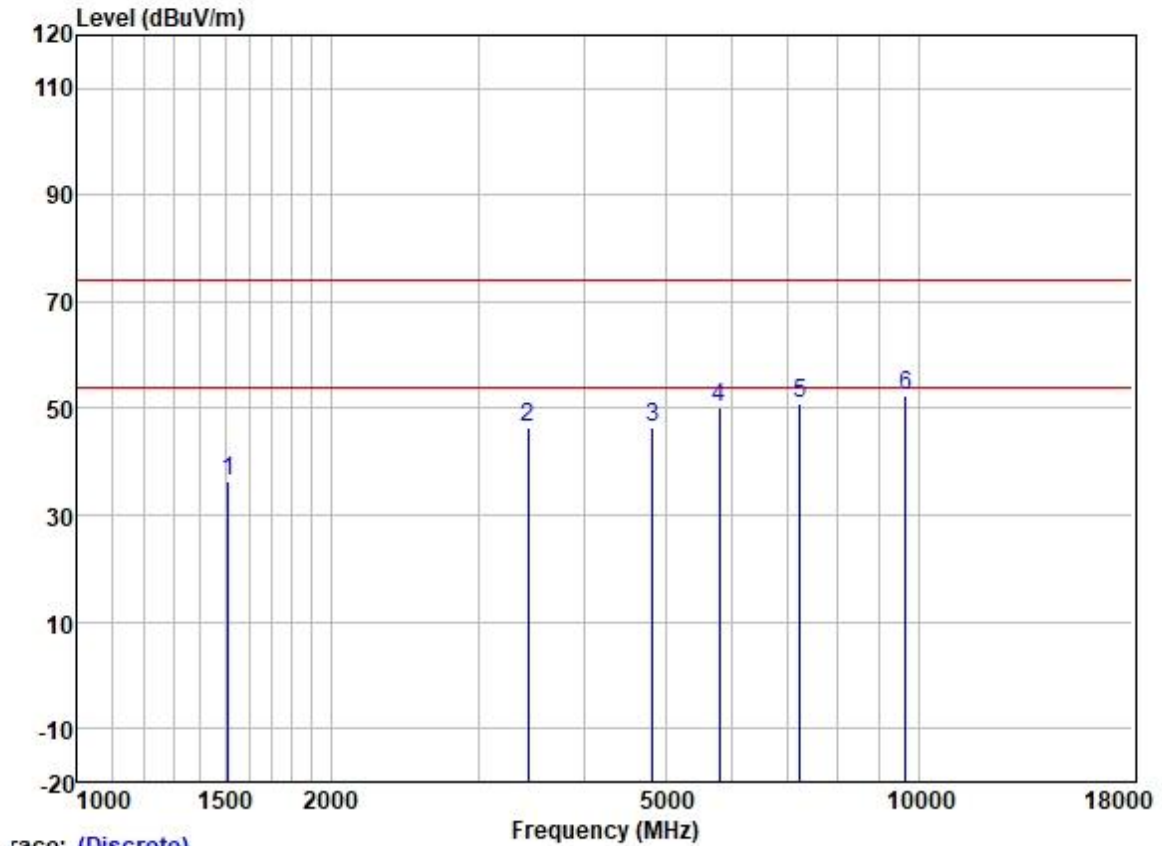


Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



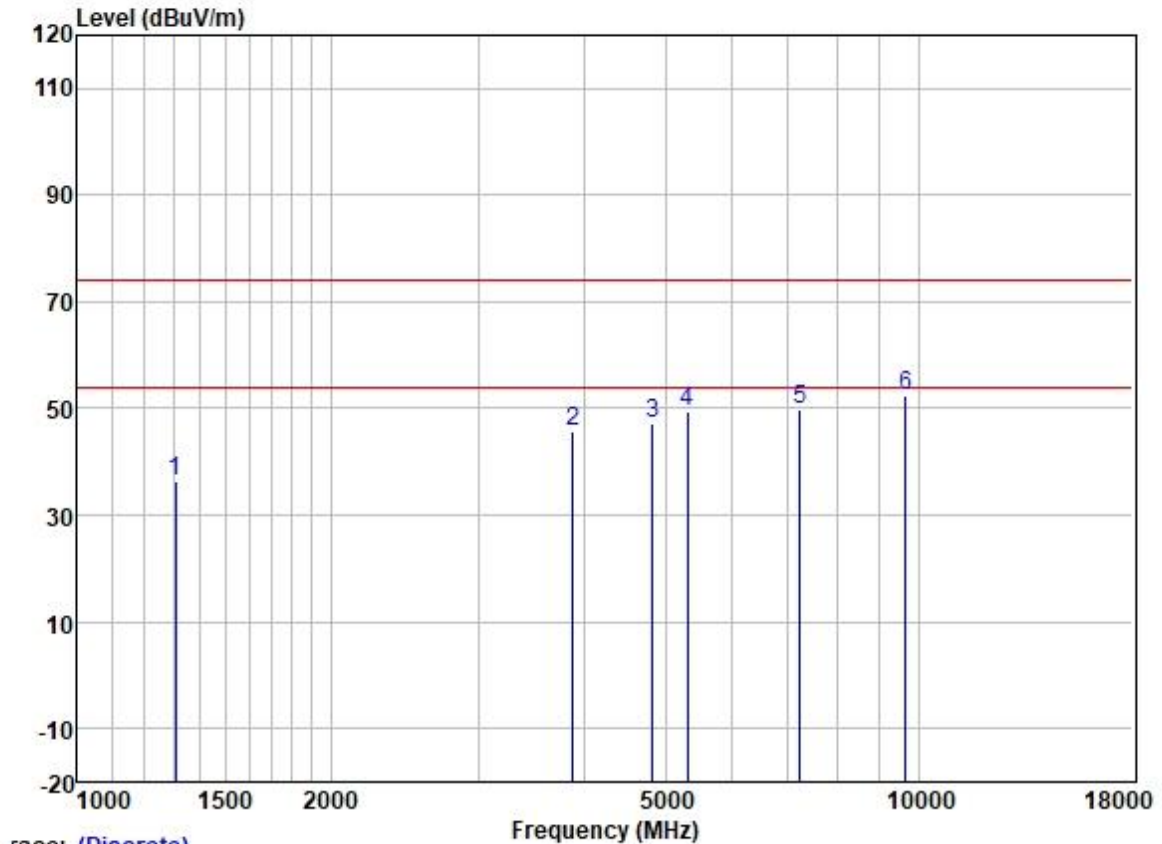
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1556.005	45.43	25.54	2.80	38.03	35.74	74.00	-38.26	VERTICAL	Peak
2	3145.189	50.14	28.51	3.95	37.12	45.48	74.00	-28.52	VERTICAL	Peak
3	4904.000	46.61	31.58	5.55	36.84	46.90	74.00	-27.10	VERTICAL	Peak
4	6148.523	48.13	32.77	6.12	36.93	50.09	74.00	-23.91	VERTICAL	Peak
5	7356.000	47.35	36.06	6.15	37.44	52.12	74.00	-21.88	VERTICAL	Peak
6	9808.000	44.66	38.56	7.00	37.41	52.81	74.00	-21.19	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1509.614	46.08	25.51	2.80	38.10	36.29	74.00	-37.71	HORIZONTAL Peak
2	3431.335	50.22	28.87	4.16	36.97	46.28	74.00	-27.72	HORIZONTAL Peak
3	4824.000	46.50	31.45	5.42	36.83	46.54	74.00	-27.46	HORIZONTAL Peak
4	5805.306	48.77	32.19	6.10	36.89	50.17	74.00	-23.83	HORIZONTAL Peak
5	7236.000	46.50	35.70	6.03	37.39	50.84	74.00	-23.16	HORIZONTAL Peak
6	9648.000	44.20	38.40	7.06	37.42	52.24	74.00	-21.76	HORIZONTAL Peak

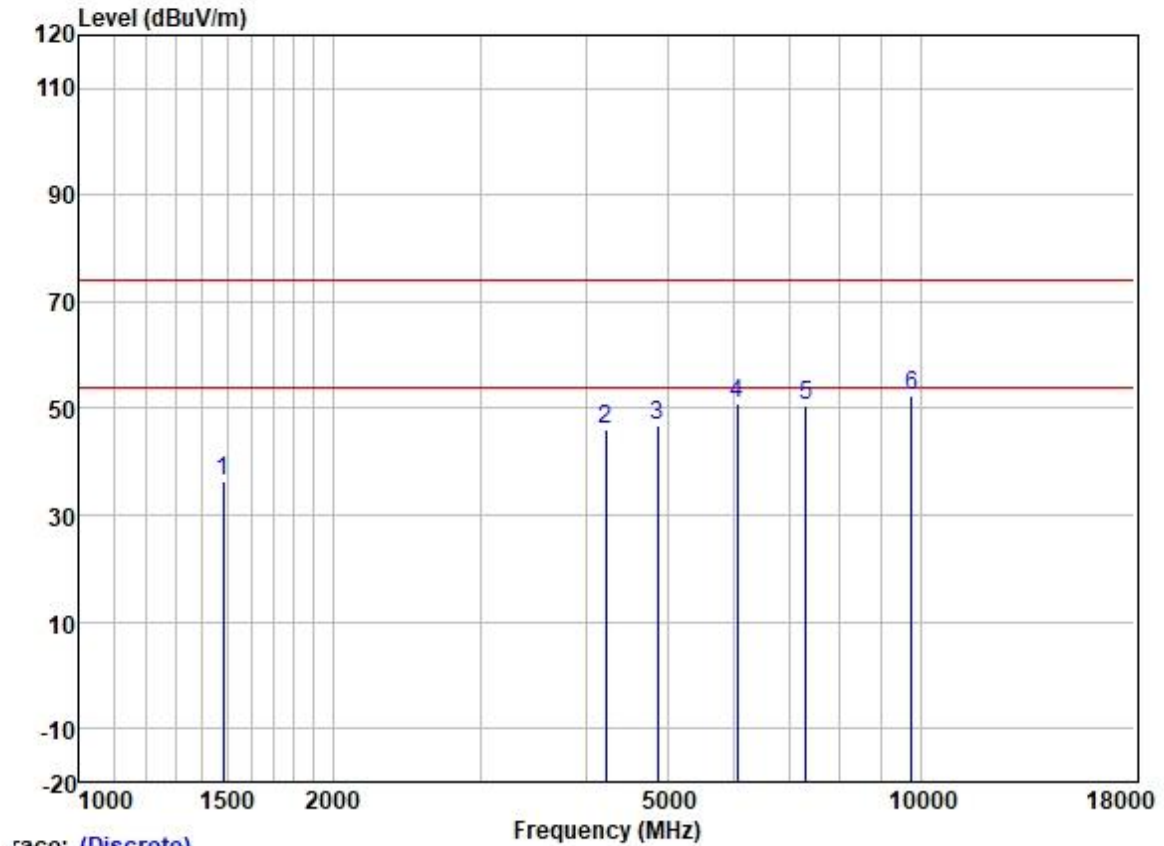
Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1306.505	46.70	25.21	2.60	38.31	36.20	74.00	-37.80	VERTICAL	Peak
2	3886.500	48.35	29.67	4.60	36.83	45.79	74.00	-28.21	VERTICAL	Peak
3	4824.000	47.16	31.45	5.42	36.83	47.20	74.00	-26.80	VERTICAL	Peak
4	5307.086	48.44	31.76	6.10	36.87	49.43	74.00	-24.57	VERTICAL	Peak
5	7236.000	45.49	35.70	6.03	37.39	49.83	74.00	-24.17	VERTICAL	Peak
6	9648.000	44.40	38.40	7.06	37.42	52.44	74.00	-21.56	VERTICAL	Peak

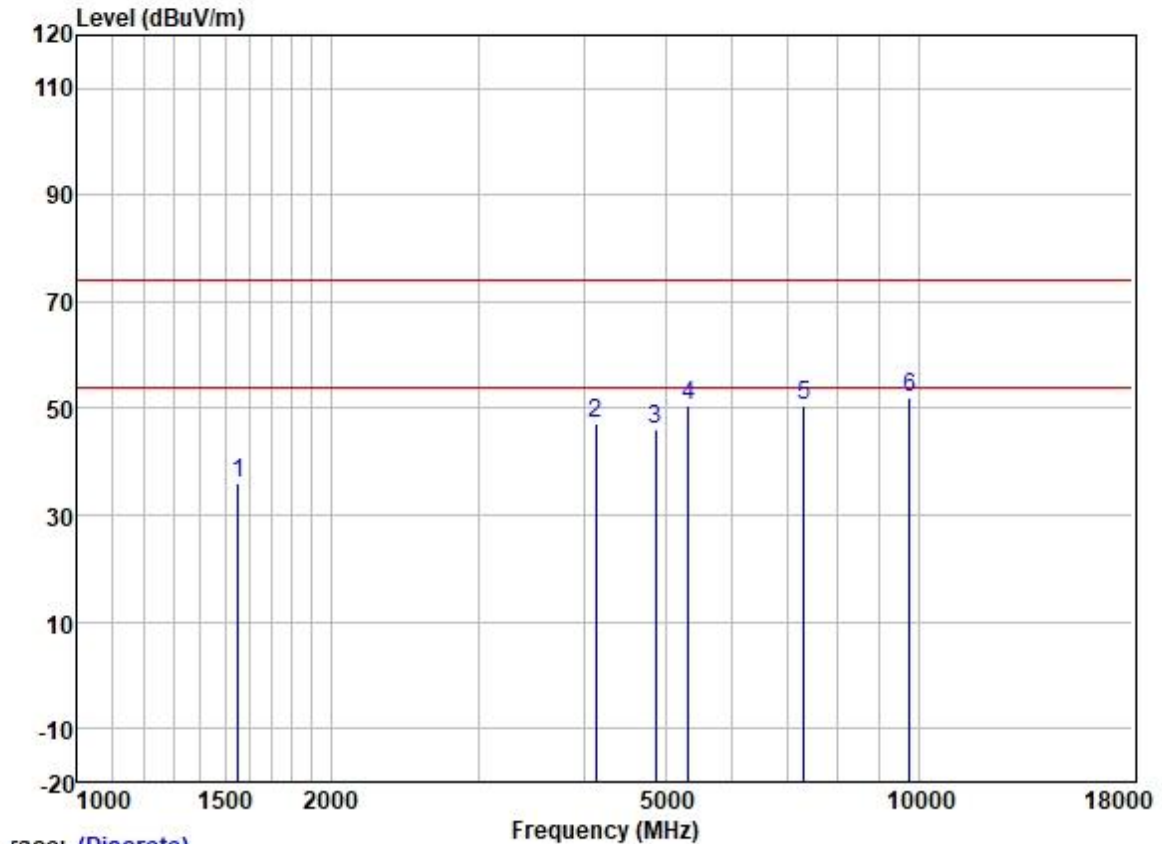


Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 20MHz; Channel: middle



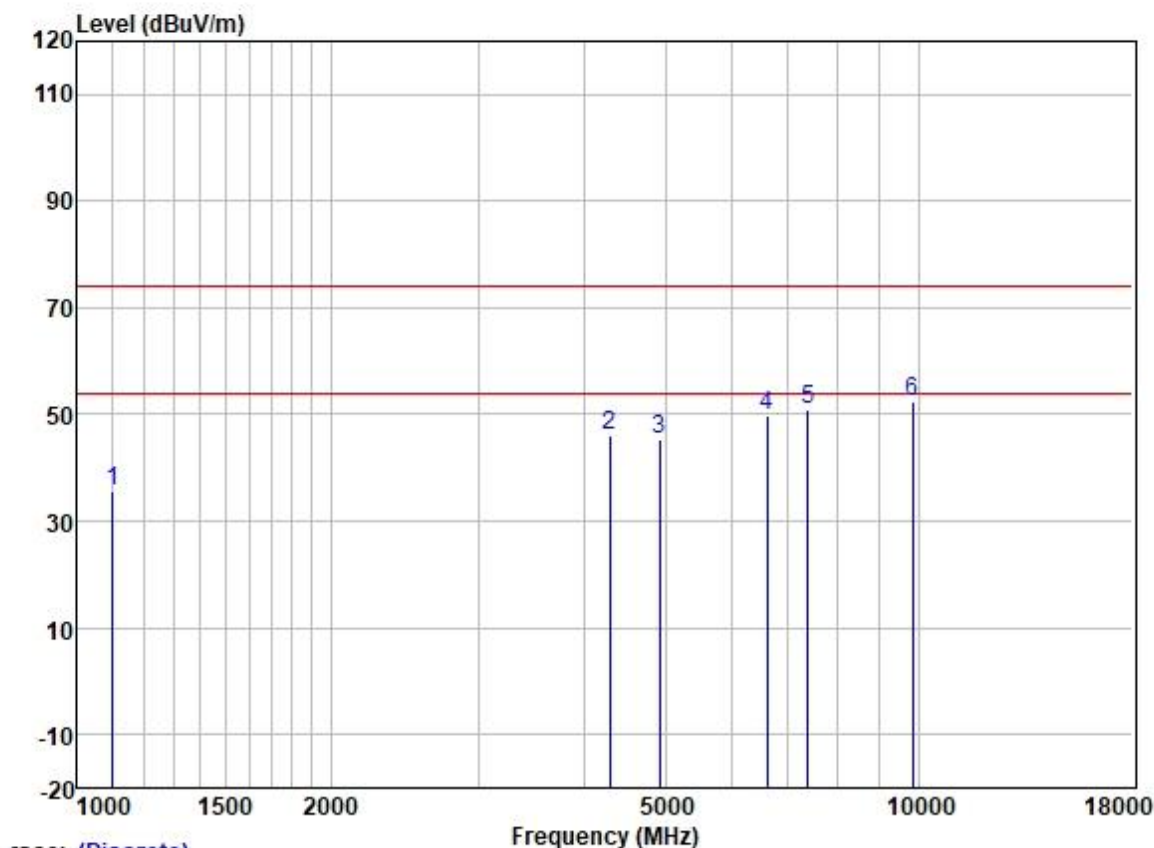
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1483.509	46.20	25.48	2.77	38.13	36.32	74.00	-37.68	HORIZONTAL	Peak
2	4229.491	48.10	30.26	4.61	36.81	46.16	74.00	-27.84	HORIZONTAL	Peak
3	4874.000	46.54	31.54	5.50	36.84	46.74	74.00	-27.26	HORIZONTAL	Peak
4	6050.639	49.18	32.52	6.17	36.91	50.96	74.00	-23.04	HORIZONTAL	Peak
5	7311.000	45.94	35.93	6.11	37.42	50.56	74.00	-23.44	HORIZONTAL	Peak
6	9748.000	44.24	38.50	7.02	37.41	52.35	74.00	-21.65	HORIZONTAL	Peak

Test Mode: 01; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 20MHz; Channel: middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1551.089	45.57	25.54	2.80	38.03	35.88	74.00	-38.12	VERTICAL	Peak
2	4136.142	49.36	30.01	4.60	36.80	47.17	74.00	-26.83	VERTICAL	Peak
3	4874.000	46.02	31.54	5.50	36.84	46.22	74.00	-27.78	VERTICAL	Peak
4	5322.012	49.69	31.77	6.08	36.88	50.66	74.00	-23.34	VERTICAL	Peak
5	7311.000	45.99	35.93	6.11	37.42	50.61	74.00	-23.39	VERTICAL	Peak
6	9748.000	44.07	38.50	7.02	37.41	52.18	74.00	-21.82	VERTICAL	Peak

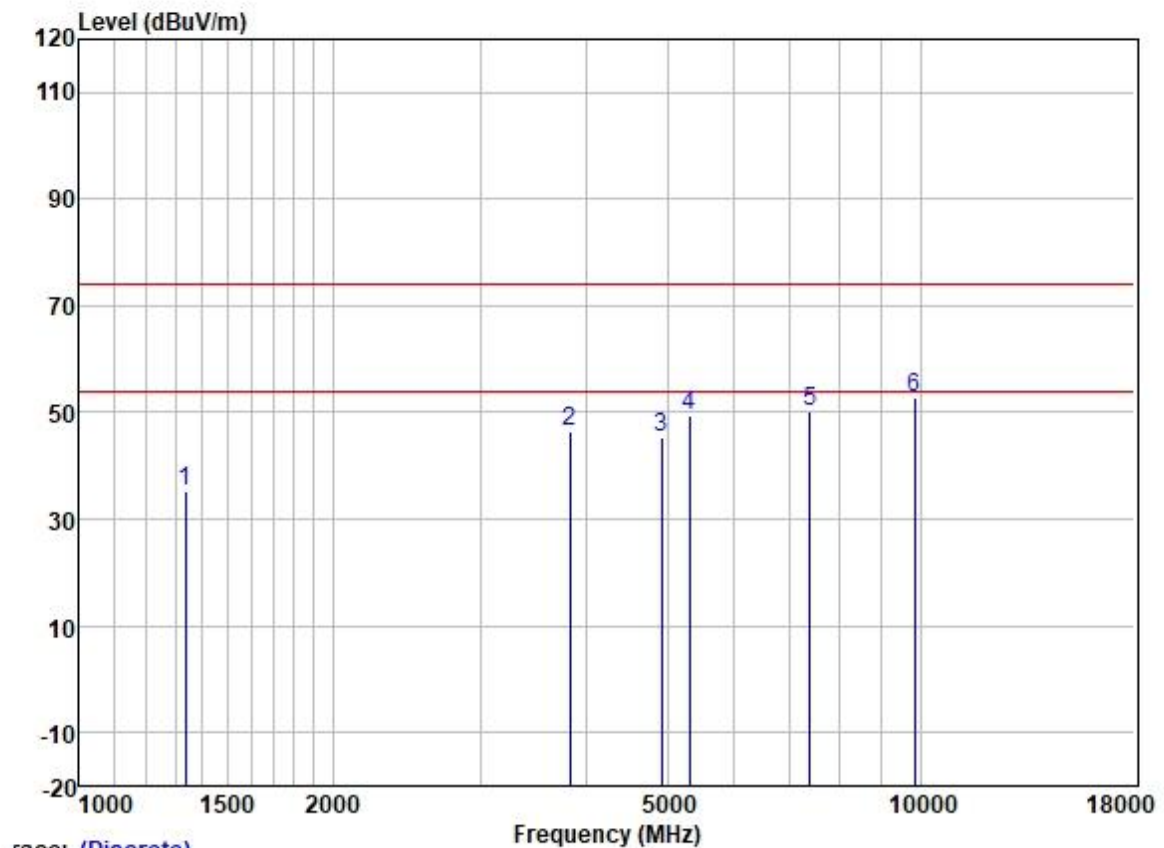
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1101.174	47.37	24.37	2.30	38.45	35.59	74.00	-38.41	HORIZONTAL	Peak
2	4296.161	47.70	30.45	4.64	36.81	45.98	74.00	-28.02	HORIZONTAL	Peak
3	4924.000	45.02	31.62	5.60	36.84	45.40	74.00	-28.60	HORIZONTAL	Peak
4	6604.648	46.77	34.16	5.84	37.04	49.73	74.00	-24.27	HORIZONTAL	Peak
5	7386.000	45.89	36.17	6.19	37.45	50.80	74.00	-23.20	HORIZONTAL	Peak
6	9848.000	44.45	38.58	6.99	37.41	52.61	74.00	-21.39	HORIZONTAL	Peak

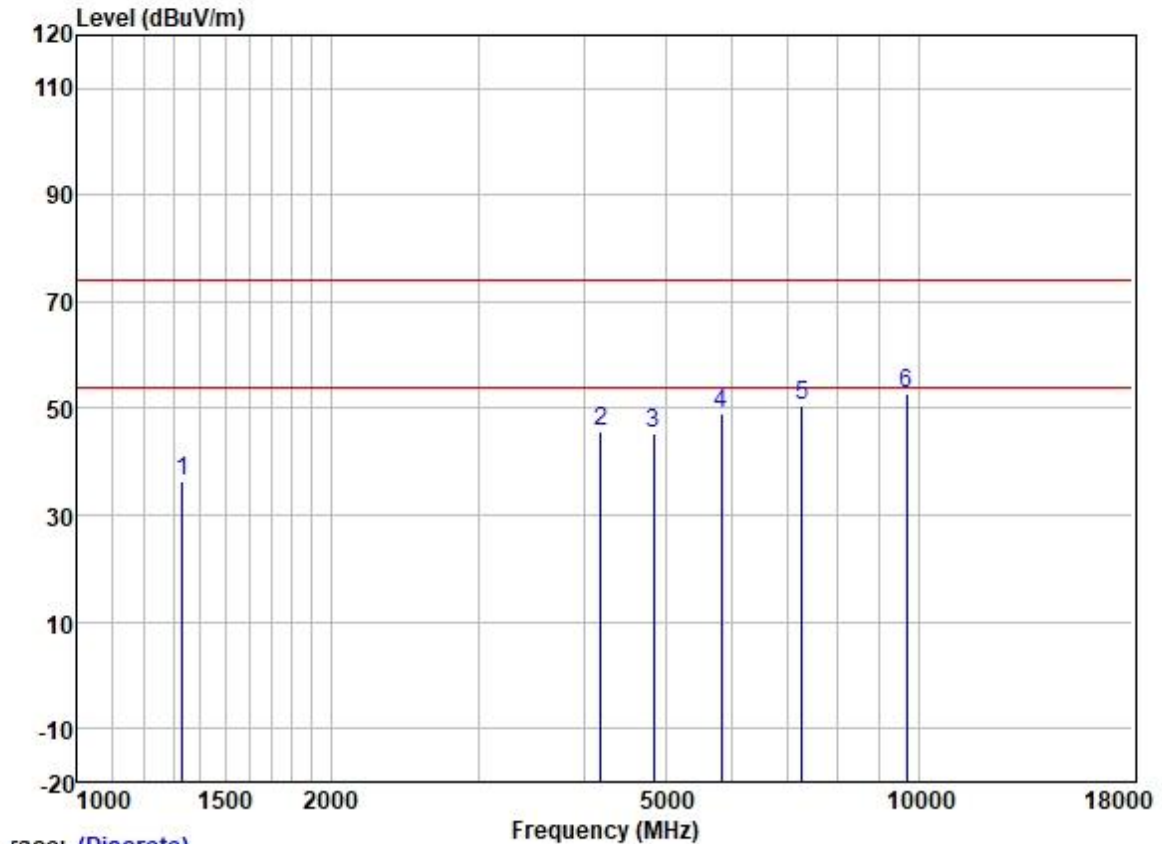


Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1336.064	45.49	25.28	2.60	38.29	35.08	74.00	-38.92	VERTICAL	Peak
2	3830.624	48.97	29.59	4.60	36.84	46.32	74.00	-27.68	VERTICAL	Peak
3	4924.000	44.92	31.62	5.60	36.84	45.30	74.00	-28.70	VERTICAL	Peak
4	5312.656	48.50	31.77	6.08	36.88	49.47	74.00	-24.53	VERTICAL	Peak
5	7386.000	45.12	36.17	6.19	37.45	50.03	74.00	-23.97	VERTICAL	Peak
6	9848.000	44.67	38.58	6.99	37.41	52.83	74.00	-21.17	VERTICAL	Peak

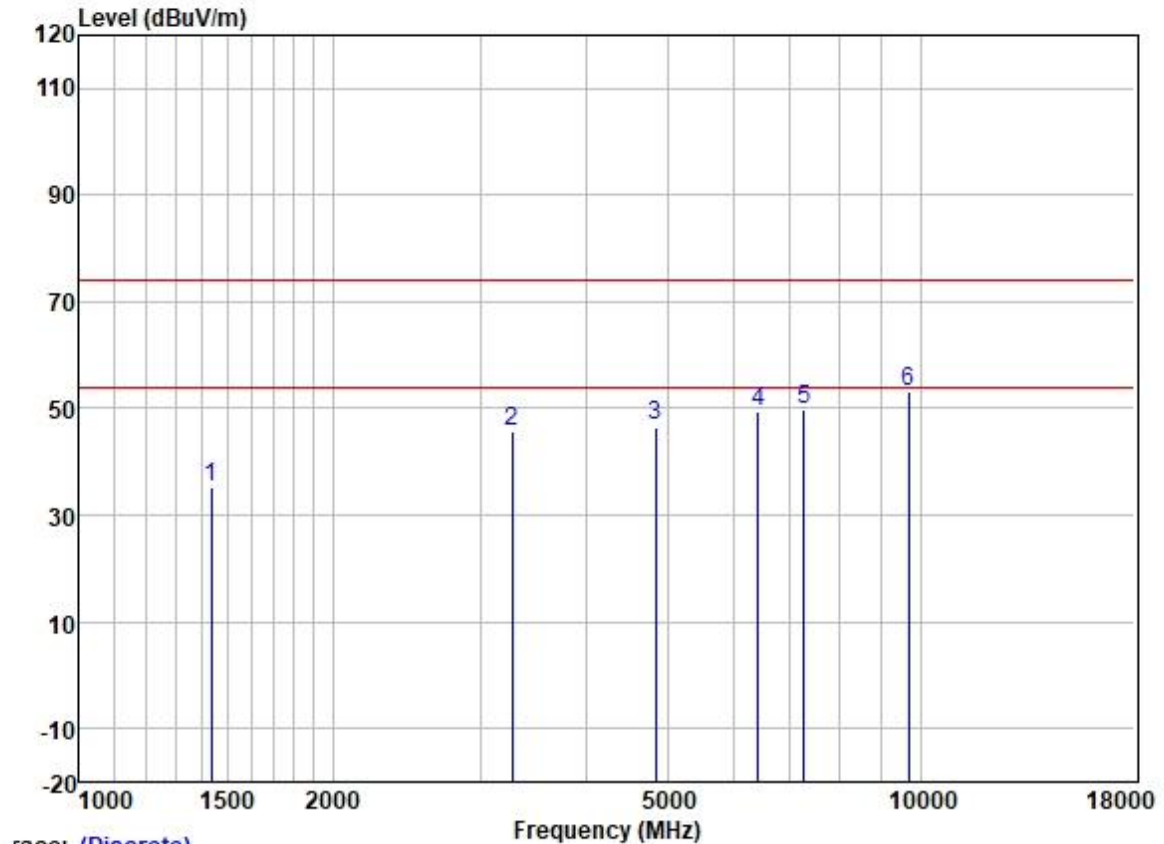
Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1333.776	46.76	25.28	2.60	38.29	36.35	74.00	-37.65	HORIZONTAL Peak
2	4192.294	47.74	30.15	4.60	36.81	45.68	74.00	-28.32	HORIZONTAL Peak
3	4844.000	45.39	31.50	5.45	36.84	45.50	74.00	-28.50	HORIZONTAL Peak
4	5832.655	47.88	32.23	6.04	36.90	49.25	74.00	-24.75	HORIZONTAL Peak
5	7266.000	46.28	35.78	6.06	37.41	50.71	74.00	-23.29	HORIZONTAL Peak
6	9688.000	44.57	38.44	7.04	37.42	52.63	74.00	-21.37	HORIZONTAL Peak

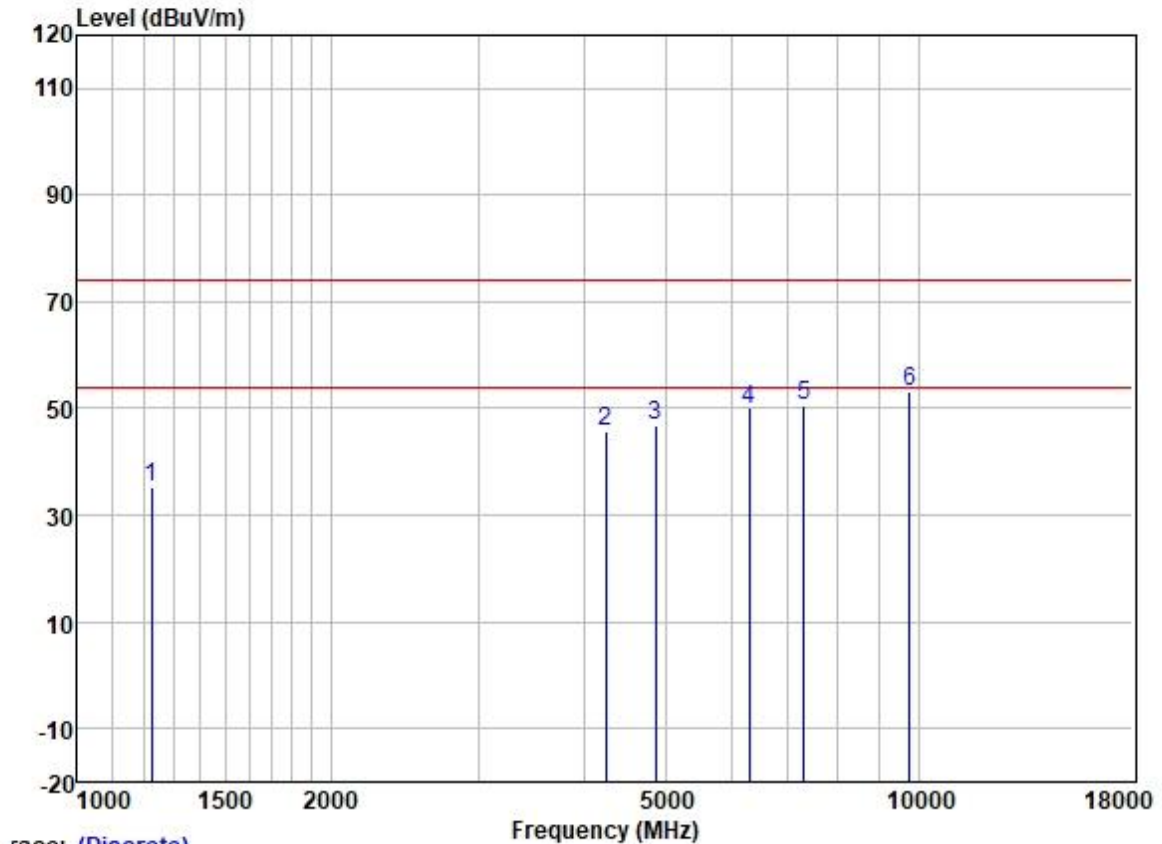
Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1435.013	45.41	25.44	2.67	38.20	35.32	74.00	-38.68	VERTICAL	Peak
2	3267.208	50.04	28.71	4.04	37.04	45.75	74.00	-28.25	VERTICAL	Peak
3	4844.000	46.53	31.50	5.45	36.84	46.64	74.00	-27.36	VERTICAL	Peak
4	6406.541	46.83	33.79	5.89	36.98	49.53	74.00	-24.47	VERTICAL	Peak
5	7266.000	45.51	35.78	6.06	37.41	49.94	74.00	-24.06	VERTICAL	Peak
6	9688.000	45.27	38.44	7.04	37.42	53.33	74.00	-20.67	VERTICAL	Peak



Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 40MHz; Channel: middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1223.711	46.34	24.85	2.31	38.37	35.13	74.00	-38.87	HORIZONTAL	Peak
2	4245.335	47.67	30.30	4.62	36.81	45.78	74.00	-28.22	HORIZONTAL	Peak
3	4874.000	46.55	31.54	5.50	36.84	46.75	74.00	-27.25	HORIZONTAL	Peak
4	6286.646	47.60	33.37	5.98	36.95	50.00	74.00	-24.00	HORIZONTAL	Peak
5	7311.000	45.87	35.93	6.11	37.42	50.49	74.00	-23.51	HORIZONTAL	Peak
6	9748.000	44.96	38.50	7.02	37.41	53.07	74.00	-20.93	HORIZONTAL	Peak