



## TEST REPORT

**Application No.:** GZCR2112021535AT  
**Applicant:** Shenzhen Skyworth Digital Technology Co., LTD.  
**Address of Applicant:** 14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China  
**Manufacturer:** Shenzhen Skyworth Digital Technology Co., LTD.  
**Address of Manufacturer:** 14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China  
**Factory:** Shenzhen Skyworth Digital Technology Co., LTD. Baoan Branch Factory  
**Address of Factory:** 2-5F, Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China

**Equipment Under Test (EUT):**

**EUT Name:** TV Stick

**Model No.:** Leap-L1, HP47D, KD5, F1, Leap-L1C, LB2107, RODPJS2KD, Meta-C2 ♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:** SKYWORTH, MECOOL, EROC, COOCOA, MEETPAI, KODAK, CosMedia

**Standard(s) :** 47 CFR Part 15, Subpart E 15.407

**Date of Receipt:** 2022-04-02

**Date of Test:** 2022-04-02 to 2022-04-11

**Date of Issue:** 2022-04-13

<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



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-13		Original

Authorized for issue by:				
Tested By				
		Curry Wu/Project Engineer		
Reviewed By				
		Ricky Liu/Reviewer		

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	KDB 789033 D02 v02r01 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions (below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Radiated Emissions (above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	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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**Declaration of EUT Family Grouping:**

Model No.: Leap-L1, HP47D, KD5, F1, Leap-L1C, LB2107, RODPJS2KD,  
Meta-C2

Only the model Leap-L1 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model number and trade mark.



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## 4 General Information

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

Power supply:	Adapter: Model: UT-236A-5100 Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V 1.0A 5.0W 3.0V DC (1.5V x 2 "AAA" Size Batteries) for remote controller
Test Voltage:	AC 120V, 60Hz or AC 240V, 50Hz 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):	USB cable: 97cm unshielded HDMI cable: 7cm shielded
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PCB Antenna
Antenna Gain:	4dBi

### 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)	±2.76dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band )	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (below 1GHz)	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m)
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 4.52dB (1GHz- 6GHz);± 4.54dB (above 6GHz)
Frequency Stability	± 7.25 x 10-8
Radiated Emissions (above 1GHz)	± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)
<b>Remark:</b> The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>cispr</sub> (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



#### 4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

#### 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.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

## 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	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
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	ESR3	EMC2221	2021-06-01	2022-05-31

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11



Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

**26dB Emission bandwidth**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18



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Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18



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EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

## 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	2022-02-22	2023-02-21
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2022-12-26
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	2021-05-26	2022-05-25

## 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	2021-12-17	2022-12-16
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	2021-12-17	2022-12-16
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	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27



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Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29
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Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2022-10-31
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2022-10-31
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Non-occupancy period					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Channel Move Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date



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MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
UHF variable attenuator	TAMAGAWA ELECTRONICS Co., LTD	TRA-801	EMC2077	2021-08-21	2022-08-20
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A





Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	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	2021-08-30	2022-08-29

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

#### 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4dBi.

Antenna location: Refer to Internal photo.

## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.1 Conclusion

standard Requirement:

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

EUT Details:

WIFI chip 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(dB $\mu$ V)	
	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.

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

Operating Environment:

Temperature: 23.6 °C

Humidity: 53.4 % RH

Atmospheric Pressure: 1003 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Mode  
Final test Code Description

**Final test** 04 TX mode (U-NII-1)\_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 @ 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.

**Pre-scan** 05 TX mode (U-NII-2A)\_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 @ 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.

**Pre-scan** 06 TX mode (U-NII-2C)\_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 @ 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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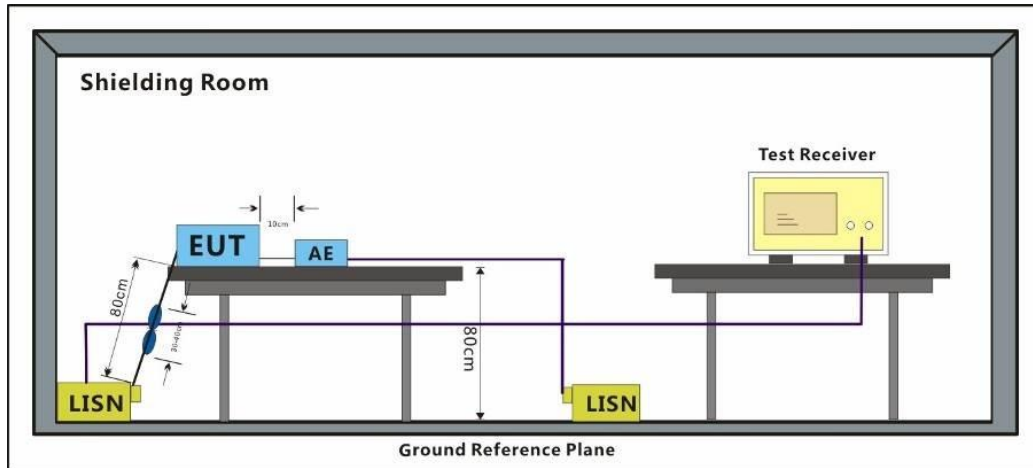
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Pre-scan 07

TX mode (U-NII-3)\_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 @ 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.

### 7.1.3 Test Setup Diagram



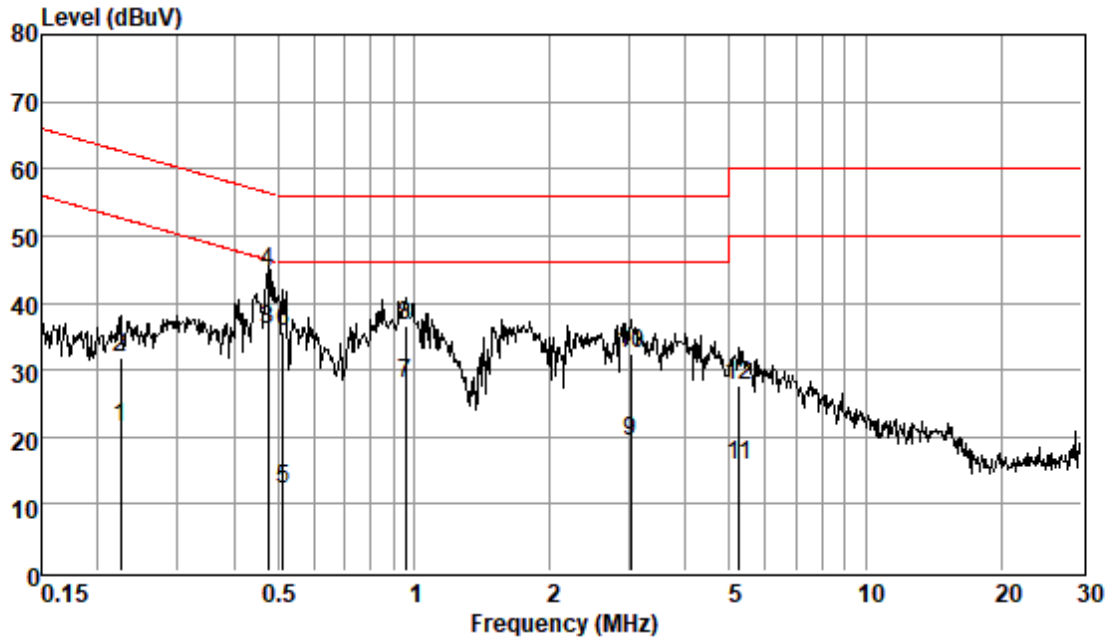
### 7.1.4 Measurement Procedure and Data

- 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 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

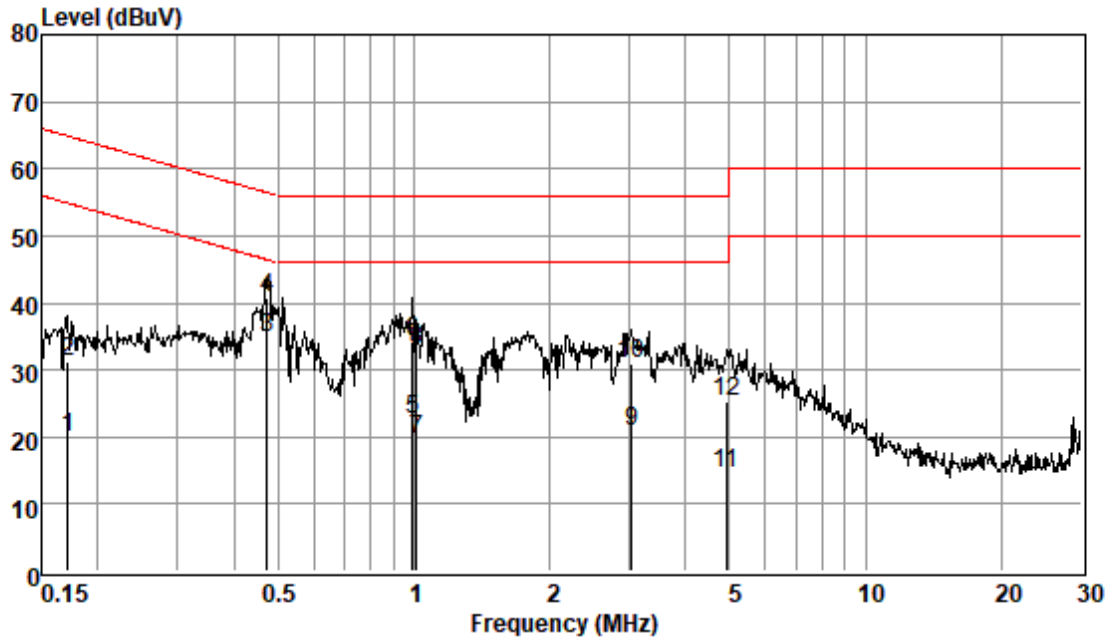


Test Mode: 04; Line: Neutral Line

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
0.22	11.68	0.06	9.55	21.29	52.66	-31.37	Average
0.22	22.24	0.06	9.55	31.85	62.66	-30.81	QP
0.48	26.33	0.07	9.55	35.95	46.41	-10.46	Average
0.48	34.91	0.07	9.55	44.53	56.41	-11.88	QP
0.51	2.44	0.07	9.55	12.06	46.00	-33.94	Average
0.51	26.18	0.07	9.55	35.80	56.00	-20.20	QP
0.96	18.36	0.07	9.55	27.98	46.00	-18.02	Average
0.96	26.98	0.07	9.55	36.60	56.00	-19.40	QP
3.03	9.52	0.15	9.56	19.23	46.00	-26.77	Average
3.03	22.83	0.15	9.56	32.54	56.00	-23.46	QP
5.25	6.07	0.19	9.56	15.82	50.00	-34.18	Average
5.25	17.89	0.19	9.56	27.64	60.00	-32.36	QP

Test Mode: 04; 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	10.35	0.06	9.62	20.03	54.90	-34.87	Average
0.17	21.51	0.06	9.62	31.19	64.90	-33.71	QP
0.47	25.07	0.07	9.63	34.77	46.45	-11.68	Average
0.47	31.04	0.07	9.63	40.74	56.45	-15.71	QP
0.99	12.95	0.07	9.62	22.64	46.00	-23.36	Average
0.99	24.39	0.07	9.62	34.08	56.00	-21.92	QP
1.02	10.04	0.07	9.62	19.73	46.00	-26.27	Average
1.02	23.25	0.07	9.62	32.94	56.00	-23.06	QP
3.04	11.06	0.15	9.62	20.83	46.00	-25.17	Average
3.04	21.13	0.15	9.62	30.90	56.00	-25.10	QP
4.93	4.77	0.18	9.66	14.61	46.00	-31.39	Average
4.93	15.58	0.18	9.66	25.42	56.00	-30.58	QP

## 7.2 Duty Cycle

Test Requirement

KDB 789033 D02 v02r01 II B 1

Test Method:

ANSI C63.10 (2013) Section 12.2

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 53.2 % RH

Atmospheric Pressure: 1003 mbar

### 7.2.2 Test Mode Description

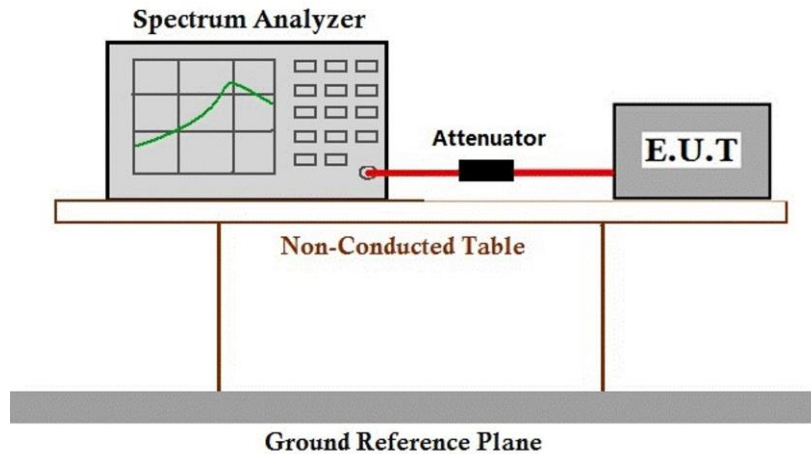
Pre-scan / Mode  
Final test Code

Description

Final test	04	TX mode (U-NII-1)_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 @ 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.
		TX mode (U-NII-2A)_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 @ 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.
		TX mode (U-NII-2C)_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 @ 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.
		TX mode (U-NII-3)_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 @ 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.



### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**7.3 99% Bandwidth**

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

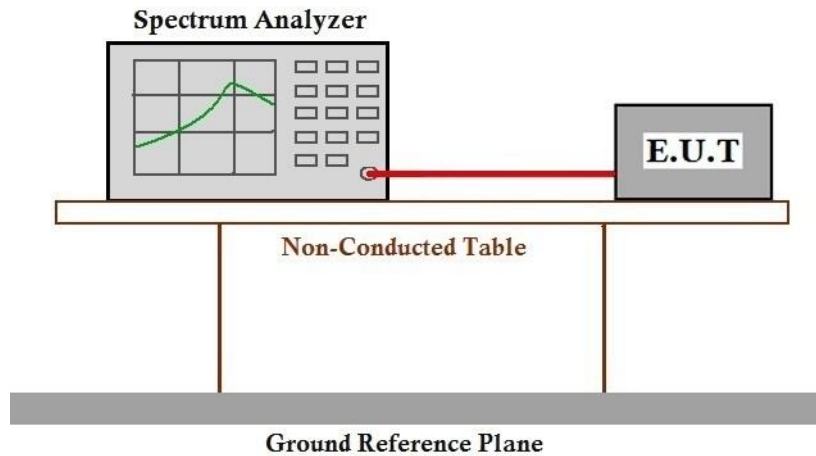
**7.3.1 E.U.T. Operation**

Operating Environment:  
Temperature: 23.6 °C Humidity: 53.2 % RH Atmospheric Pressure: 1003 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_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 @ 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.
Final test	05	TX mode (U-NII-2A)_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 @ 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.
Final test	06	TX mode (U-NII-2C)_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 @ 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.
Final test	07	TX mode (U-NII-3)_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 @ 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.

### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**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**

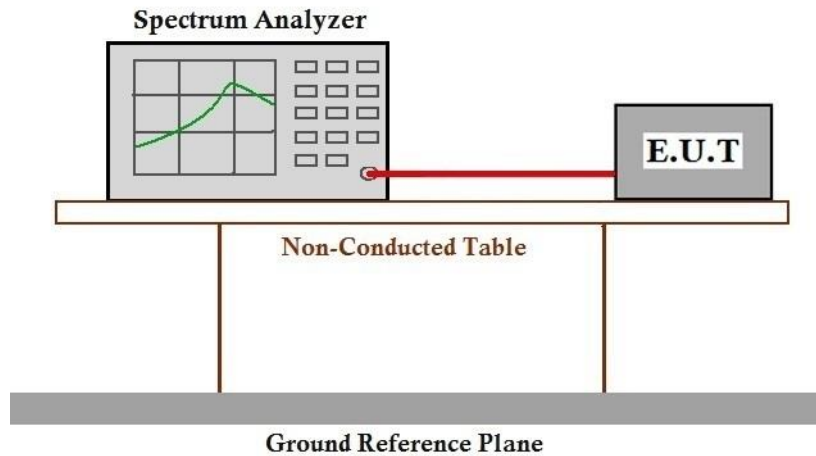
Operating Environment:  
Temperature: 23.6 °C Humidity: 54.2 % RH Atmospheric Pressure: 1003 mbar

**7.4.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-1)_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 @ 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.
Final test	05	TX mode (U-NII-2A)_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 @ 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.
Final test	06	TX mode (U-NII-2C)_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 @ 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.
Final test	07	TX mode (U-NII-3)_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 @ 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.



### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**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:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

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

Operating Environment:

Temperature: 23.6 °C

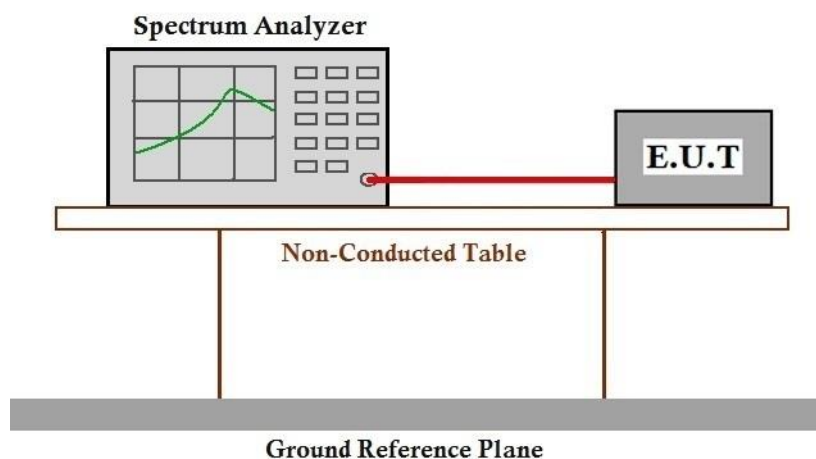
Humidity: 54.2 % RH

Atmospheric Pressure: 1003 mbar

**7.5.2 Test Mode Description**

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

Final test	07	TX mode (U-NII-3)_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 @ 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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**7.5.3 Test Setup Diagram****7.5.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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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>

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 54.2 % RH Atmospheric Pressure: 1003 mbar

### 7.6.2 Test Mode Description

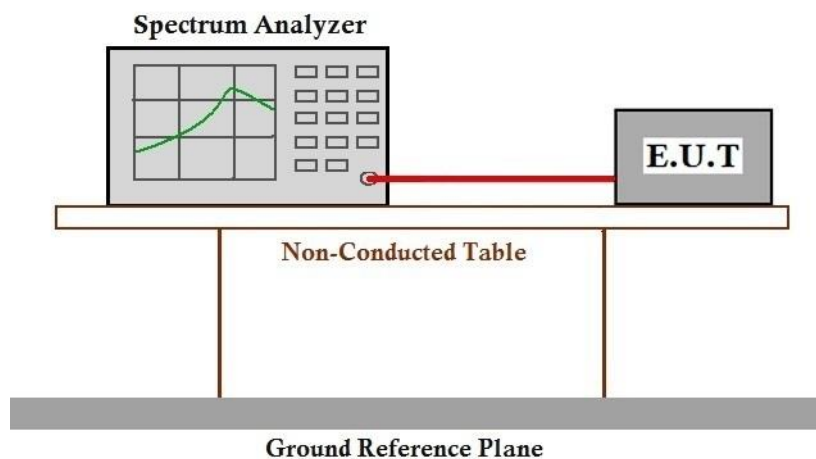
Pre-scan / Final test	Mode Code	Description
Final test	04	<p>TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the 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.</p>
Final test	05	<p>TX mode (U-NII-2A)_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 @ 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.</p>
Final test	06	<p>TX mode (U-NII-2C)_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 @ 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</p>

Final test 07

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.

TX mode (U-NII-3)\_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 @ 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.

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



**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.

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

Operating Environment:

Temperature: 23.6 °C

Humidity: 54.2 % RH

Atmospheric Pressure: 1003 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
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Final test	04	TX mode (U-NII-1)_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 @ 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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Final test	05	TX mode (U-NII-2A)_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 @ 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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Final test	06	TX mode (U-NII-2C)_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 @ 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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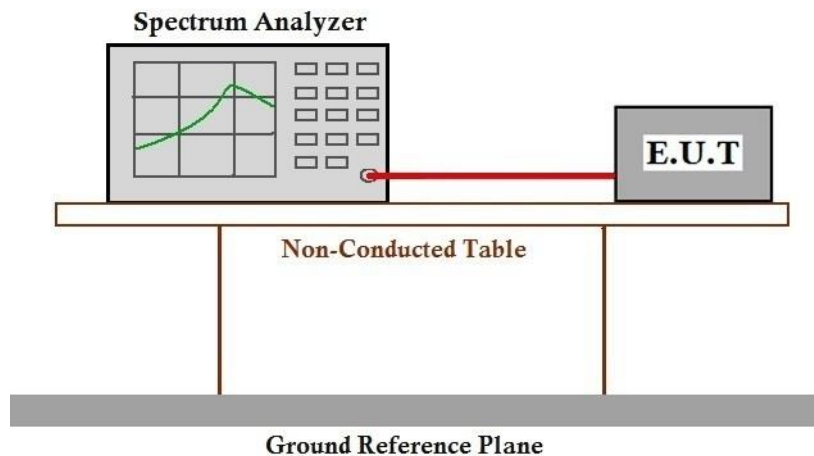
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Final test 07

TX mode (U-NII-3)\_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 @ 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.

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**7.8 Radiated Emissions (below 1GHz)**

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

\*(1) 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.

(2) 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.

(3) 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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

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: 24.2 °C

Humidity: 54.2 % RH

Atmospheric Pressure: 1003 mbar

**7.8.2 Test Mode Description**

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

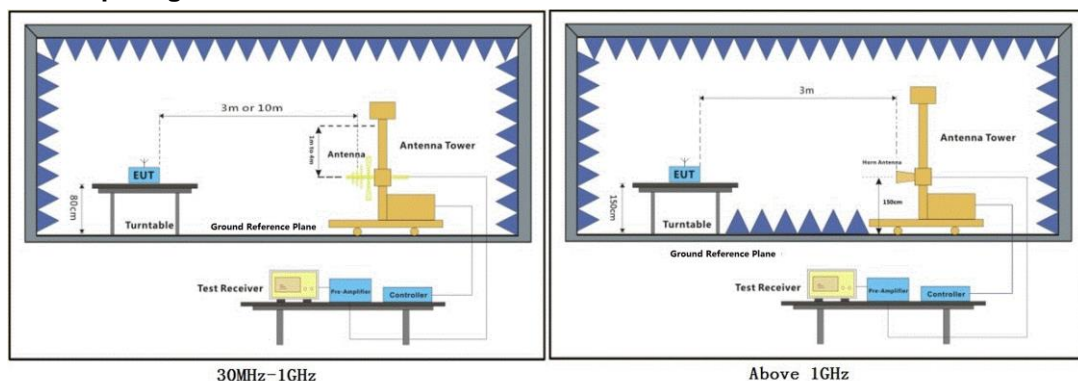


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<b>Final test</b>	04	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ 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.
<b>Pre-scan</b>	05	TX mode (U-NII-2A)_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 @ 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.
<b>Pre-scan</b>	06	TX mode (U-NII-2C)_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 @ 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.
<b>Pre-scan</b>	07	TX mode (U-NII-3)_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 @ 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.

### 7.8.3 Test Setup Diagram





#### 7.8.4 Measurement Procedure and Data

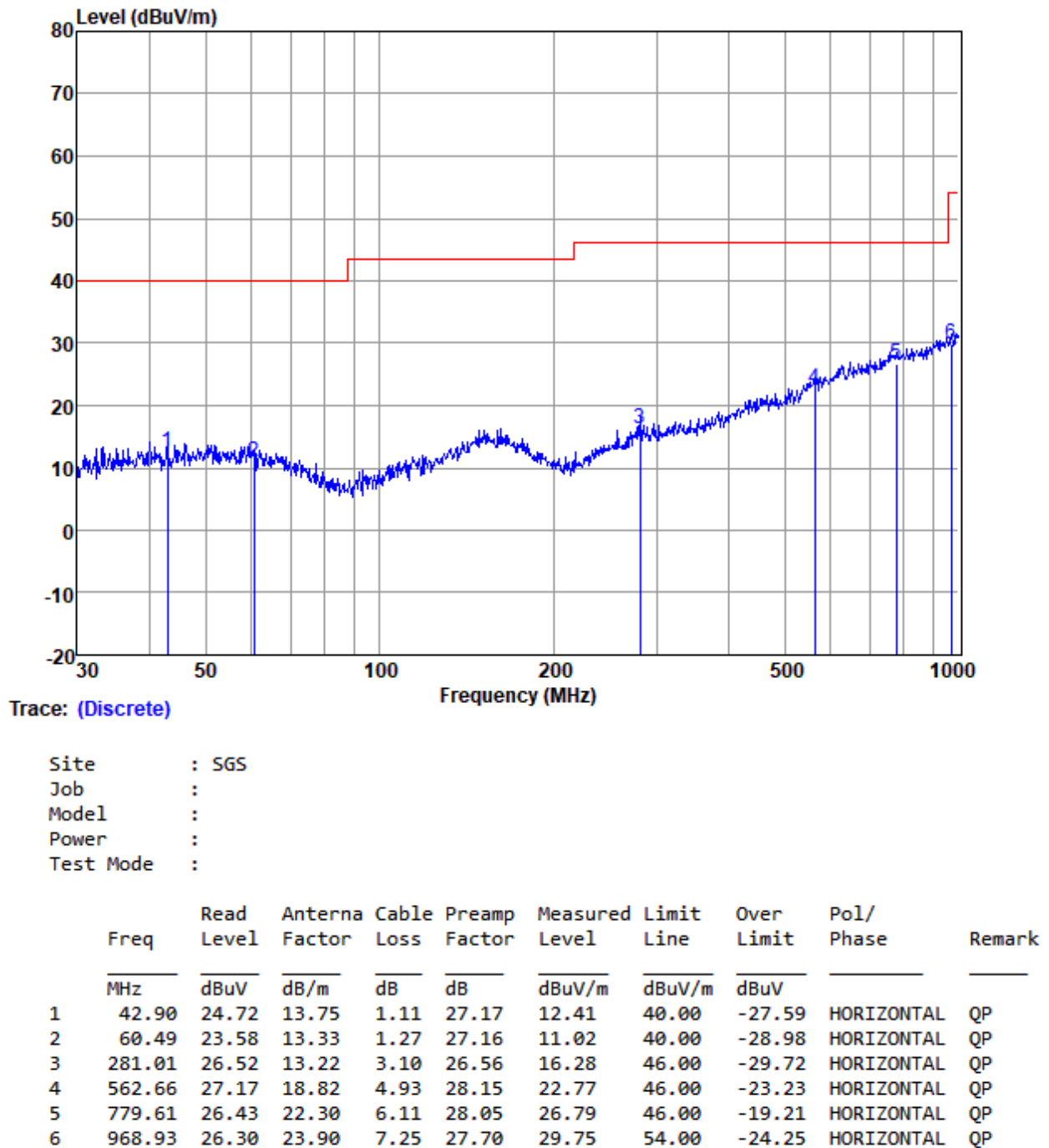
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on 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 (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.
- 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:

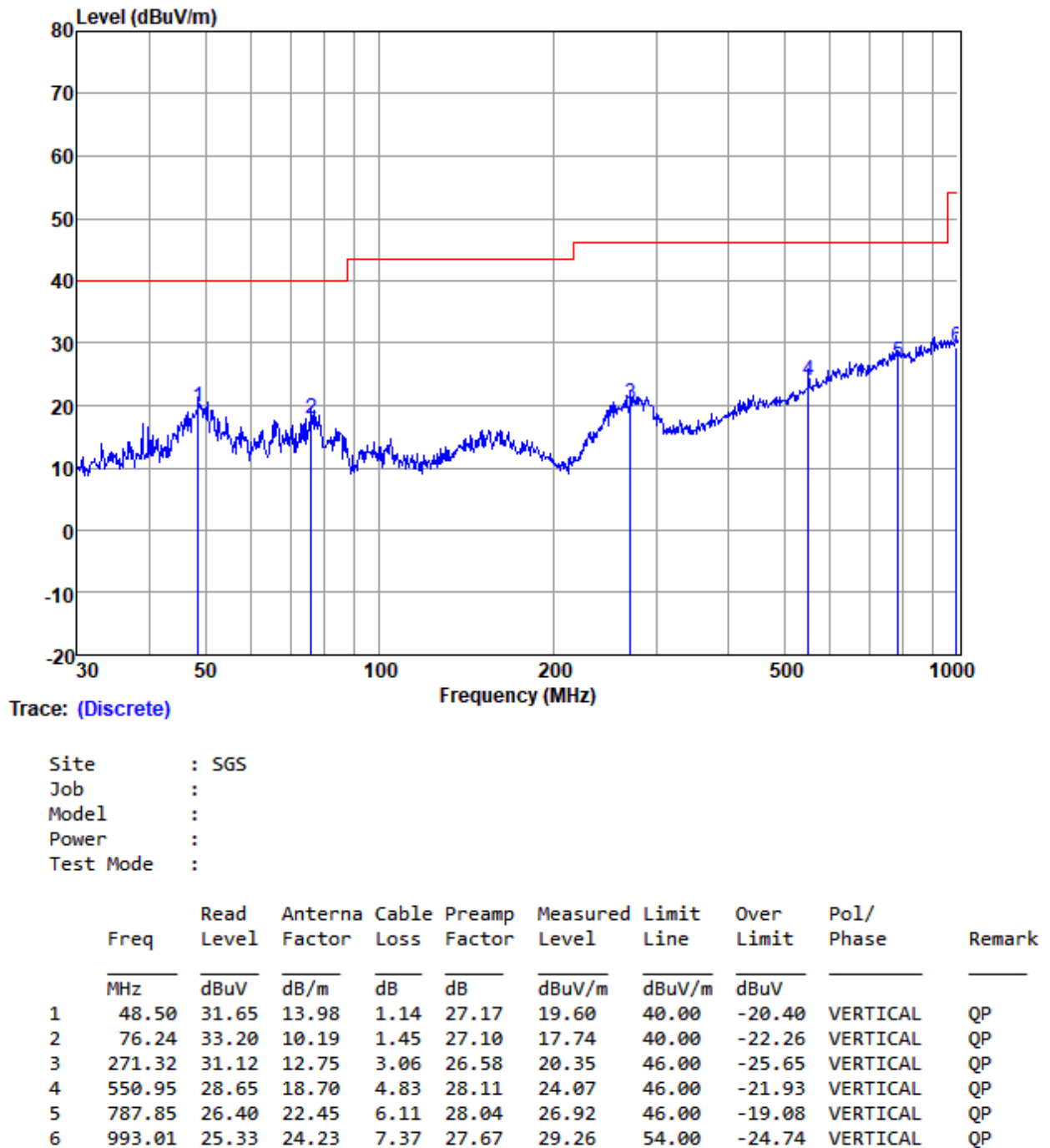
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked 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.



Test Mode: 04



Test Mode: 04



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

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

\*(1) 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.

(2) 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.

(3) 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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

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: 24.2 °C

Humidity: 54.8 % RH

Atmospheric Pressure: 1003 mbar

**7.9.2 Test Mode Description**

Pre-scan / Mode	Description
Final test Code	

Final test 04

TX mode (U-NII-1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested



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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.

**Final test 05**

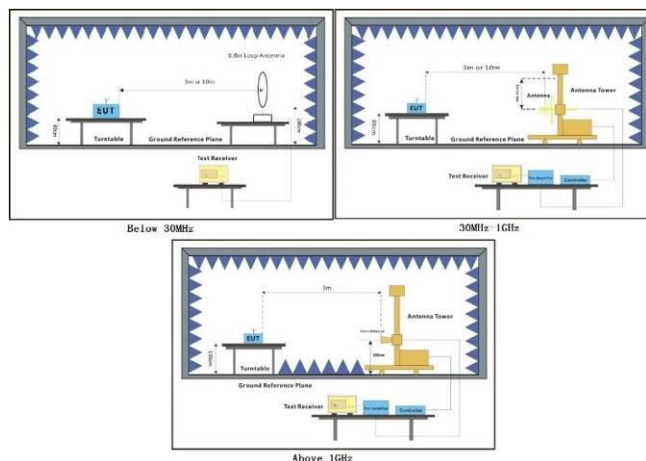
TX mode (U-NII-2A)\_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst 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.

**Final test 06**

TX mode (U-NII-2C)\_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 @ 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.

**Final test 07**

TX mode (U-NII-3)\_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 @ 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.

**7.9.3 Test Setup Diagram**

#### 7.9.4 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 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 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.

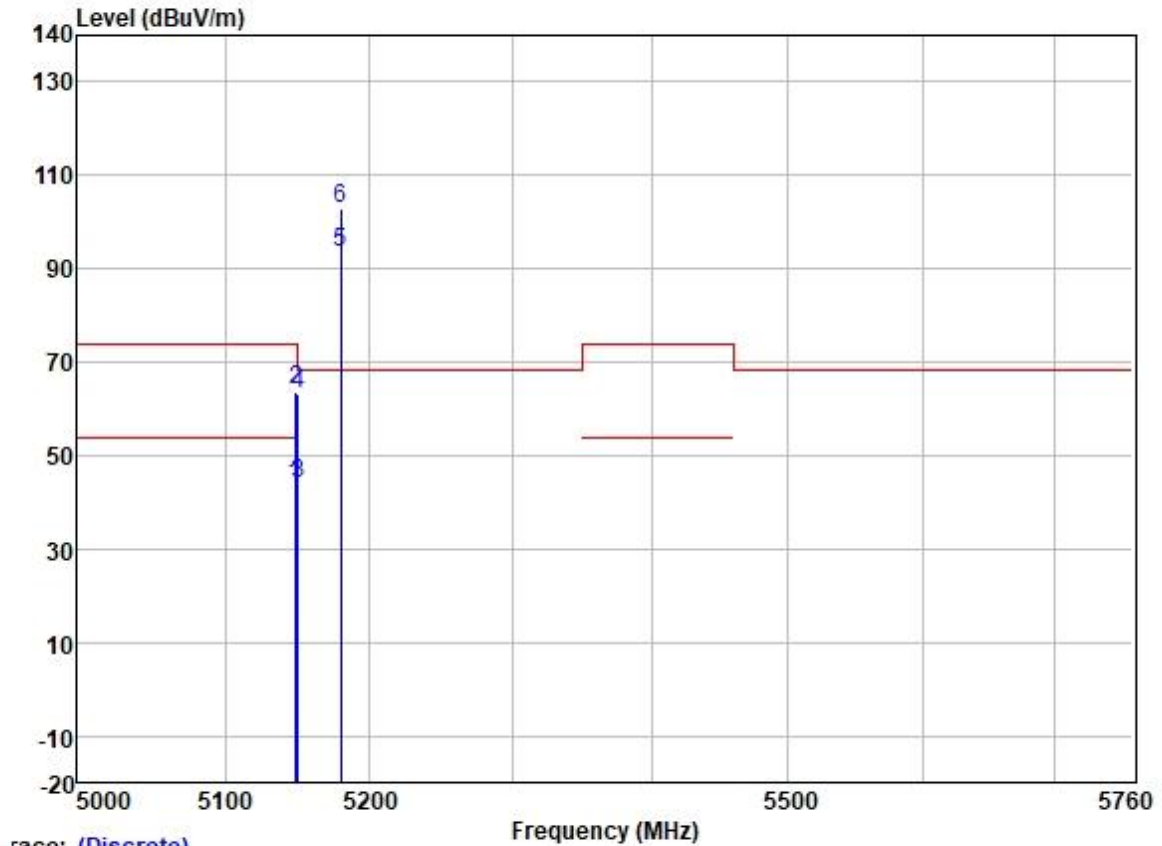
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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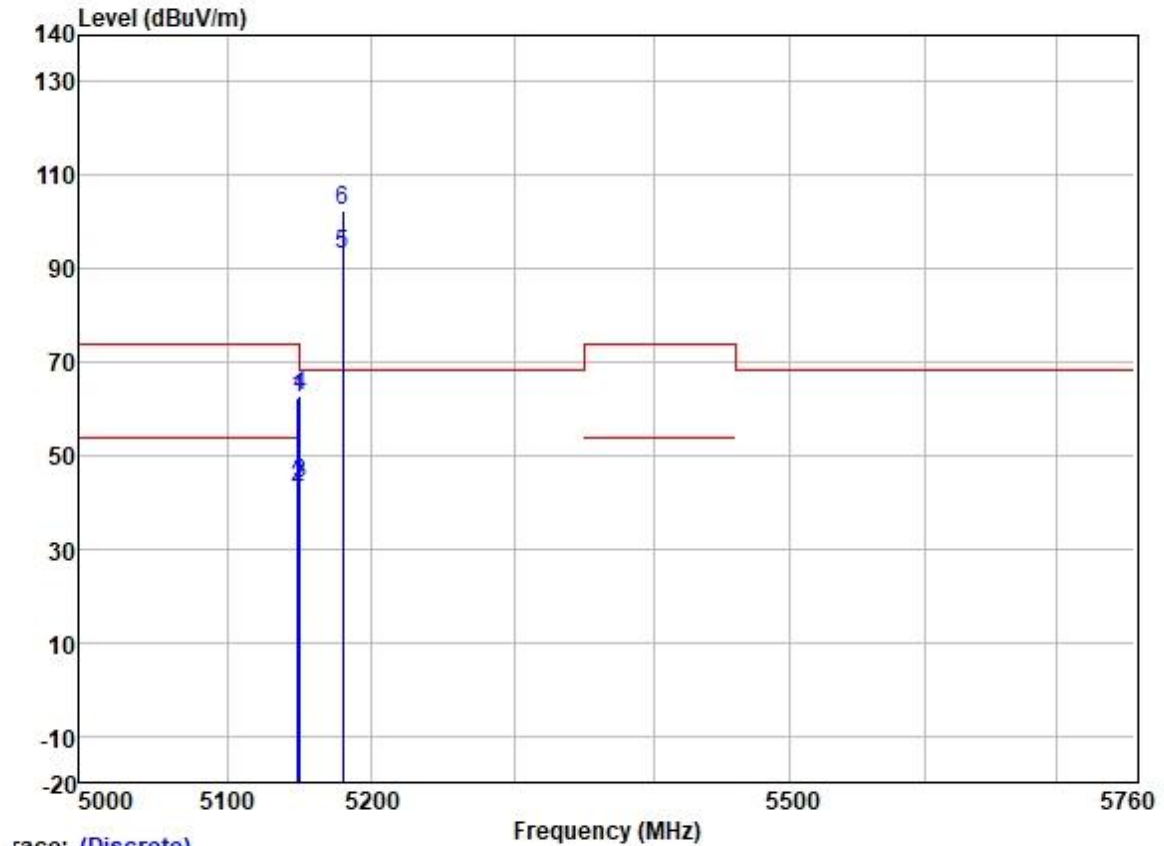
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	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	5148.257	42.92	31.72	5.62	36.86	43.40	54.00	-10.60	HORIZONTAL Average
2	5148.958	63.36	31.72	5.62	36.86	63.84	74.00	-10.16	HORIZONTAL Peak
3	5149.980	43.48	31.72	5.62	36.86	43.96	54.00	-10.04	HORIZONTAL Average
4	5149.980	62.59	31.72	5.62	36.86	63.07	74.00	-10.93	HORIZONTAL Peak
5	5180.000	92.95	31.73	5.61	36.87	93.42	-----	-----	HORIZONTAL Average
6 *	5180.000	102.30	31.73	5.61	36.87	102.77	68.20	34.57	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

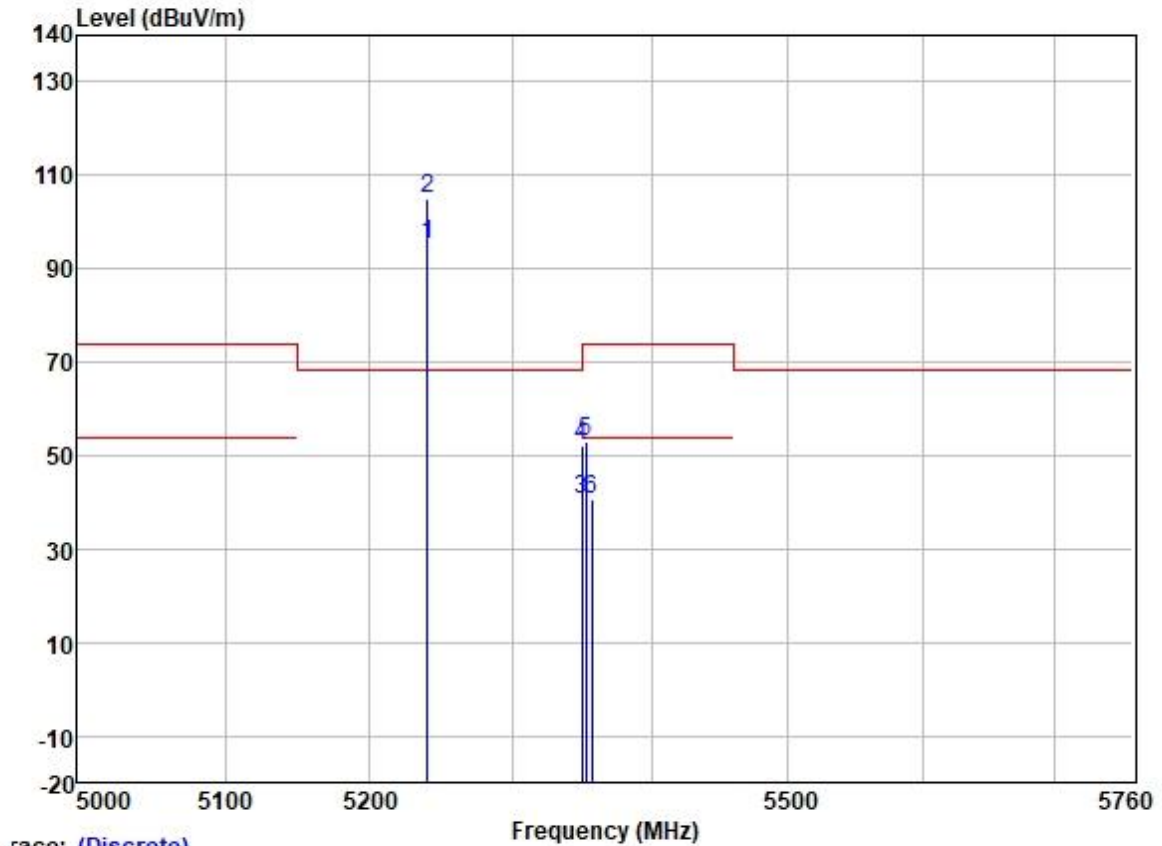


Trace: (Discrete)

		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	5148.558	61.75	31.72	5.62	36.86	62.23	74.00	-11.77	VERTICAL	Peak
2	5149.458	42.75	31.72	5.62	36.86	43.23	54.00	-10.77	VERTICAL	Average
3	5149.980	43.55	31.72	5.62	36.86	44.03	54.00	-9.97	VERTICAL	Average
4	5149.980	62.32	31.72	5.62	36.86	62.80	74.00	-11.20	VERTICAL	Peak
5	5180.000	92.39	31.73	5.61	36.87	92.86	-----	-----	VERTICAL	Average
6 *	5180.000	101.99	31.73	5.61	36.87	102.46	68.20	34.26	VERTICAL	Peak



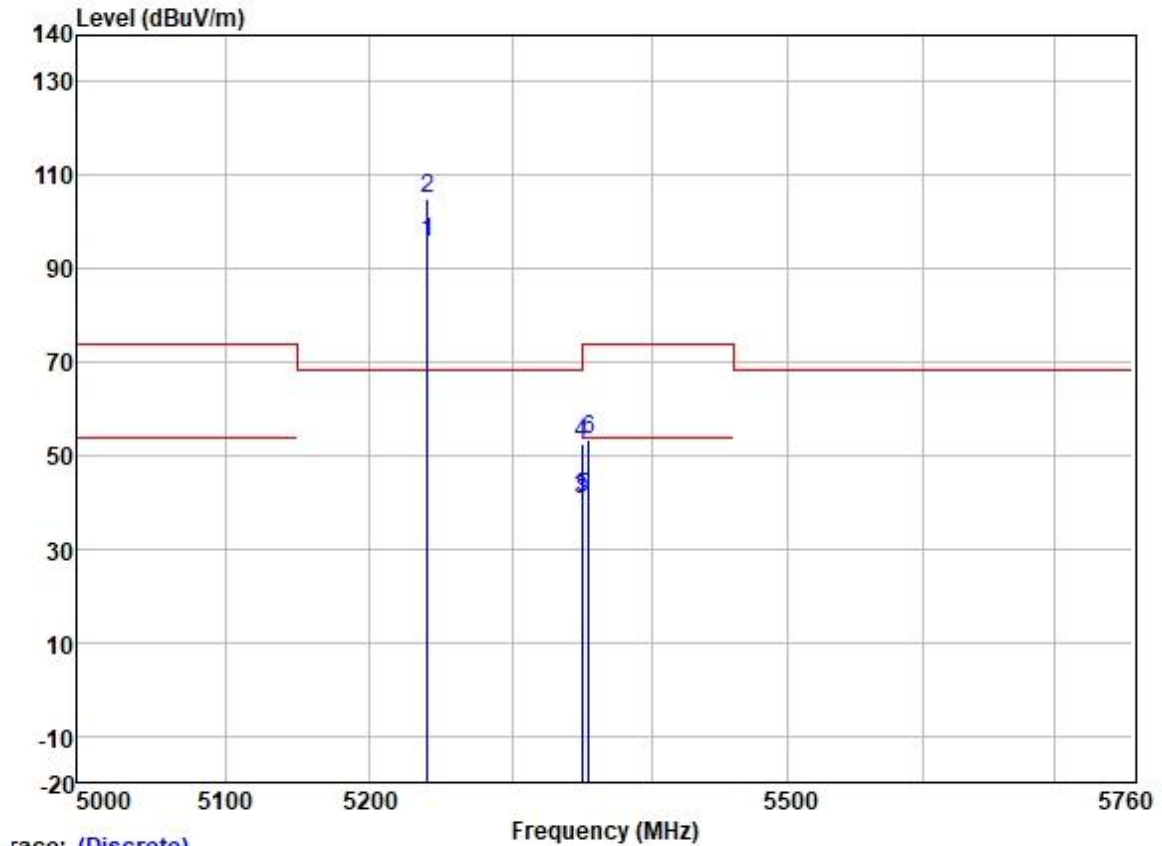
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

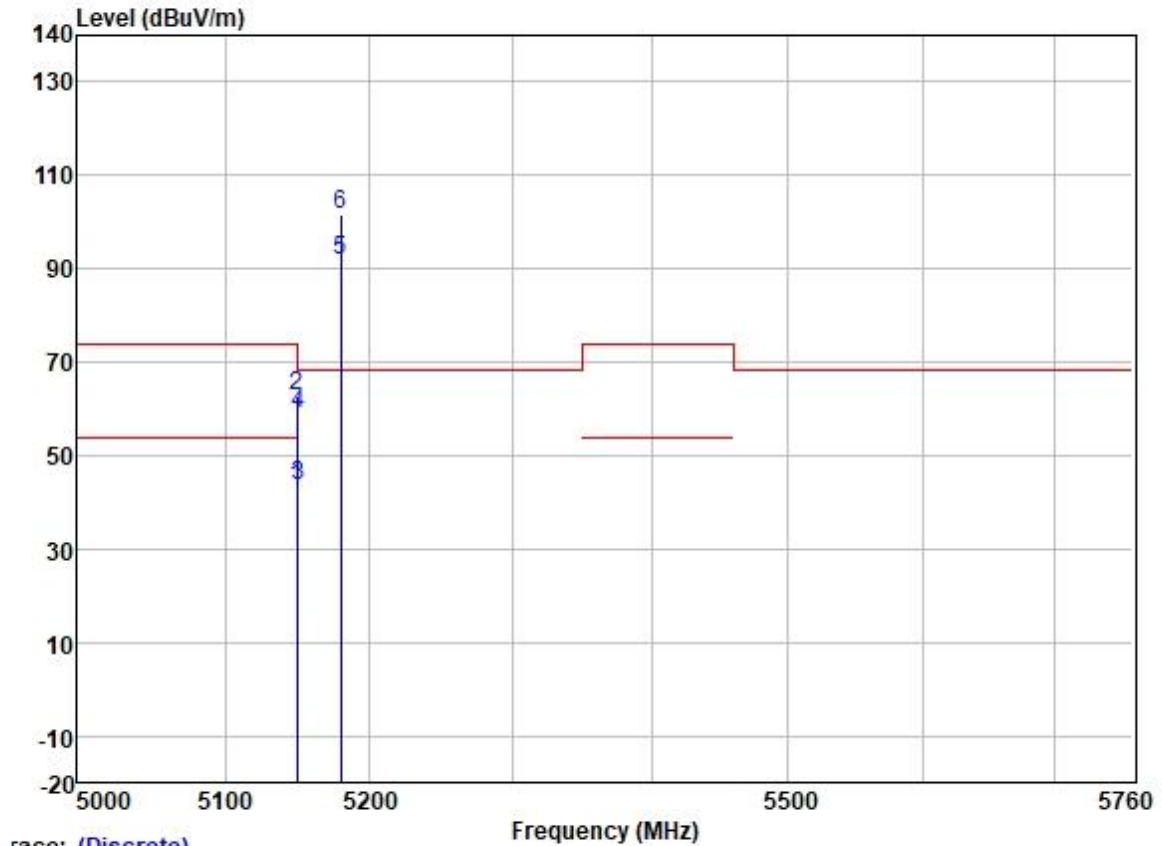
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	94.63	31.75	5.74	36.87	95.25	-----	-----	HORIZONTAL Average
2 *	5240.000	104.27	31.75	5.74	36.87	104.89	68.20	36.69	HORIZONTAL Peak
3	5350.020	39.53	31.77	6.05	36.88	40.47	54.00	-13.53	HORIZONTAL Average
4	5350.020	51.00	31.77	6.05	36.88	51.94	74.00	-22.06	HORIZONTAL Peak
5	5352.770	52.17	31.77	6.05	36.88	53.11	74.00	-20.89	HORIZONTAL Peak
6	5357.022	39.82	31.78	6.03	36.88	40.75	54.00	-13.25	HORIZONTAL Average

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; 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	5240.000	94.97	31.75	5.74	36.87	95.59	-----	-----	VERTICAL	Average
2 *	5240.000	104.58	31.75	5.74	36.87	105.20	68.20	37.00	VERTICAL	Peak
3	5350.020	39.65	31.77	6.05	36.88	40.59	54.00	-13.41	VERTICAL	Average
4	5350.020	51.43	31.77	6.05	36.88	52.37	74.00	-21.63	VERTICAL	Peak
5	5350.362	39.90	31.77	6.05	36.88	40.84	54.00	-13.16	VERTICAL	Average
6	5354.896	52.51	31.78	6.03	36.88	53.44	74.00	-20.56	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

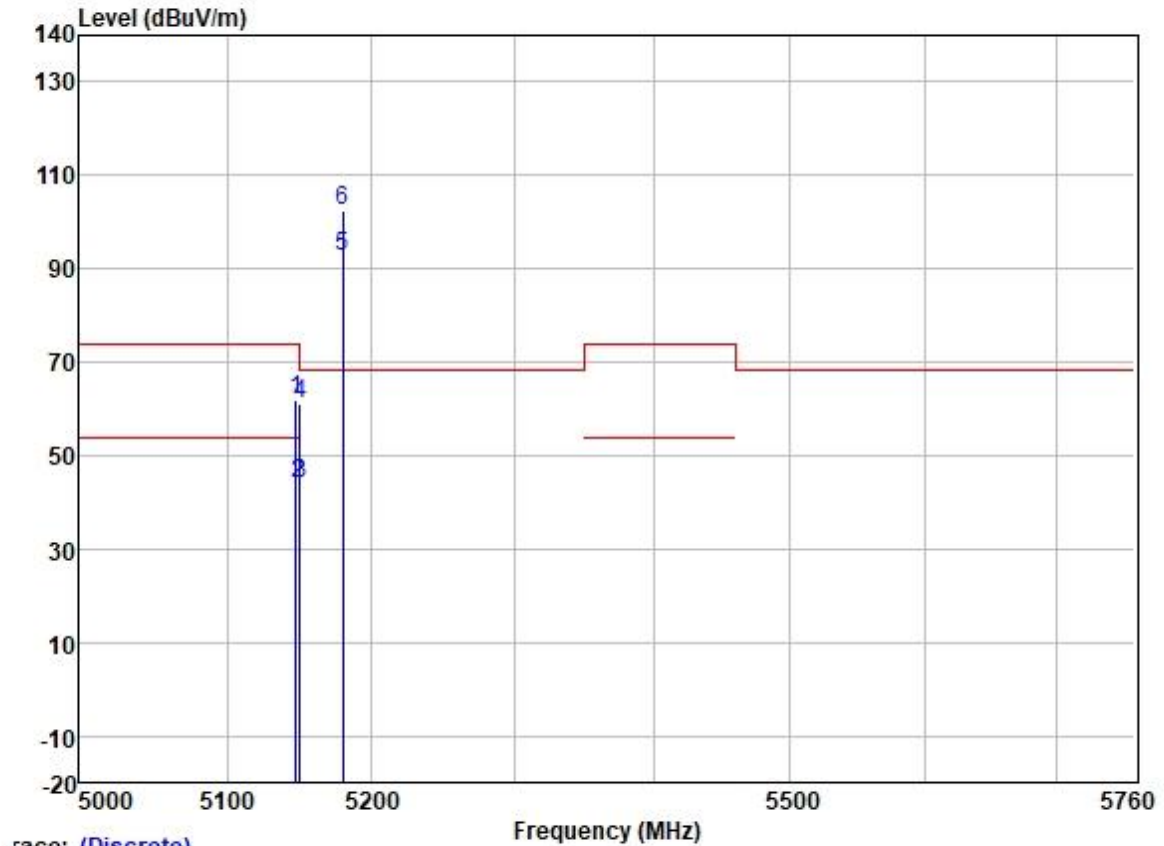


race: (Discrete)

	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	5149.157	42.72	31.72	5.62	36.86	43.20	54.00	-10.80	HORIZONTAL Average
2	5149.157	62.17	31.72	5.62	36.86	62.65	74.00	-11.35	HORIZONTAL Peak
3	5149.980	43.01	31.72	5.62	36.86	43.49	54.00	-10.51	HORIZONTAL Average
4	5149.980	58.58	31.72	5.62	36.86	59.06	74.00	-14.94	HORIZONTAL Peak
5	5180.000	91.25	31.73	5.61	36.87	91.72	-----	-----	HORIZONTAL Average
6 *	5180.000	101.16	31.73	5.61	36.87	101.63	68.20	33.43	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

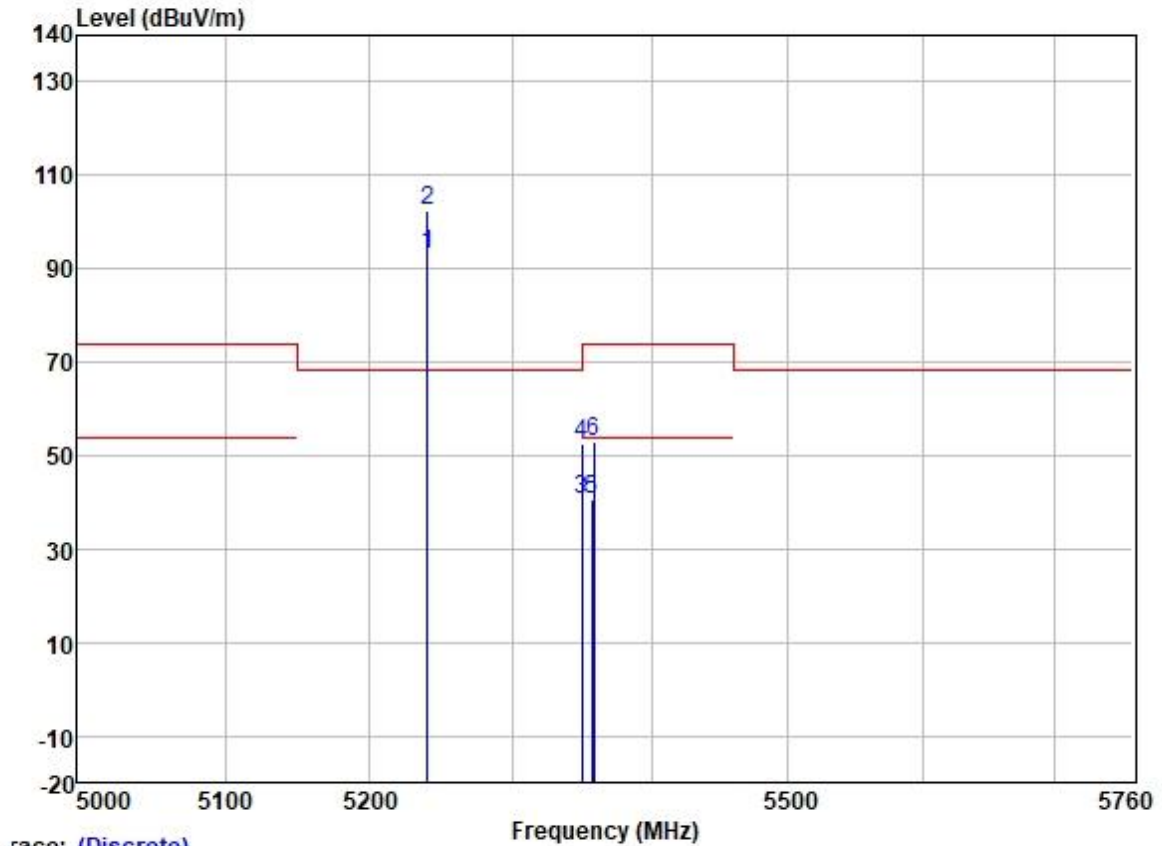


Trace: (Discrete)

		Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1		5147.358	61.32	31.72	5.62	36.86	61.80	74.00	-12.20	VERTICAL	Peak
2		5149.458	43.31	31.72	5.62	36.86	43.79	54.00	-10.21	VERTICAL	Average
3		5149.980	43.31	31.72	5.62	36.86	43.79	54.00	-10.21	VERTICAL	Average
4		5149.980	60.79	31.72	5.62	36.86	61.27	74.00	-12.73	VERTICAL	Peak
5		5180.000	92.35	31.73	5.61	36.87	92.82	-----	-----	VERTICAL	Average
6	*	5180.000	102.08	31.73	5.61	36.87	102.55	68.20	34.35	VERTICAL	Peak



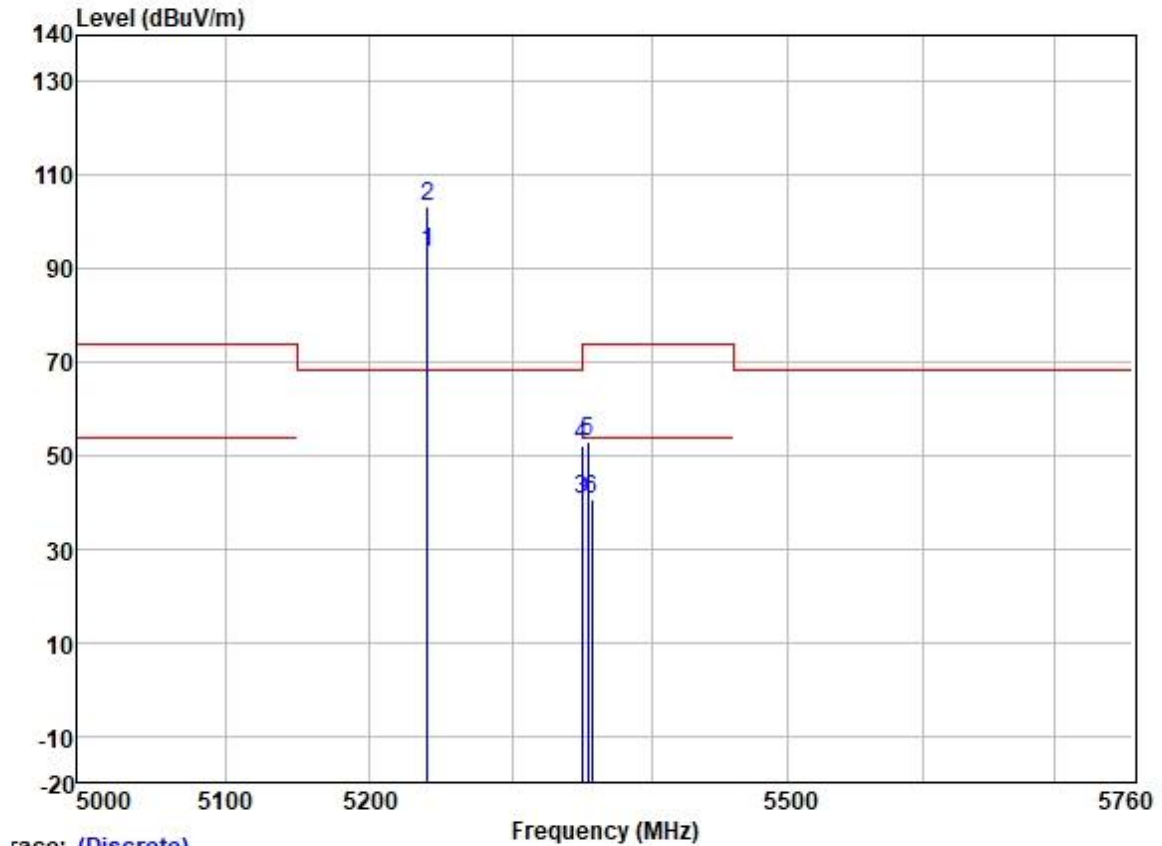
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5240.000	92.45	31.75	5.74	36.87	93.07	-----	-----
2 *	5240.000	101.76	31.75	5.74	36.87	102.38	68.20	34.18
3	5350.020	39.53	31.77	6.05	36.88	40.47	54.00	-13.53
4	5350.020	51.46	31.77	6.05	36.88	52.40	74.00	-21.60
5	5356.738	39.80	31.78	6.03	36.88	40.73	54.00	-13.27
6	5358.298	51.95	31.78	6.03	36.88	52.88	74.00	-21.12

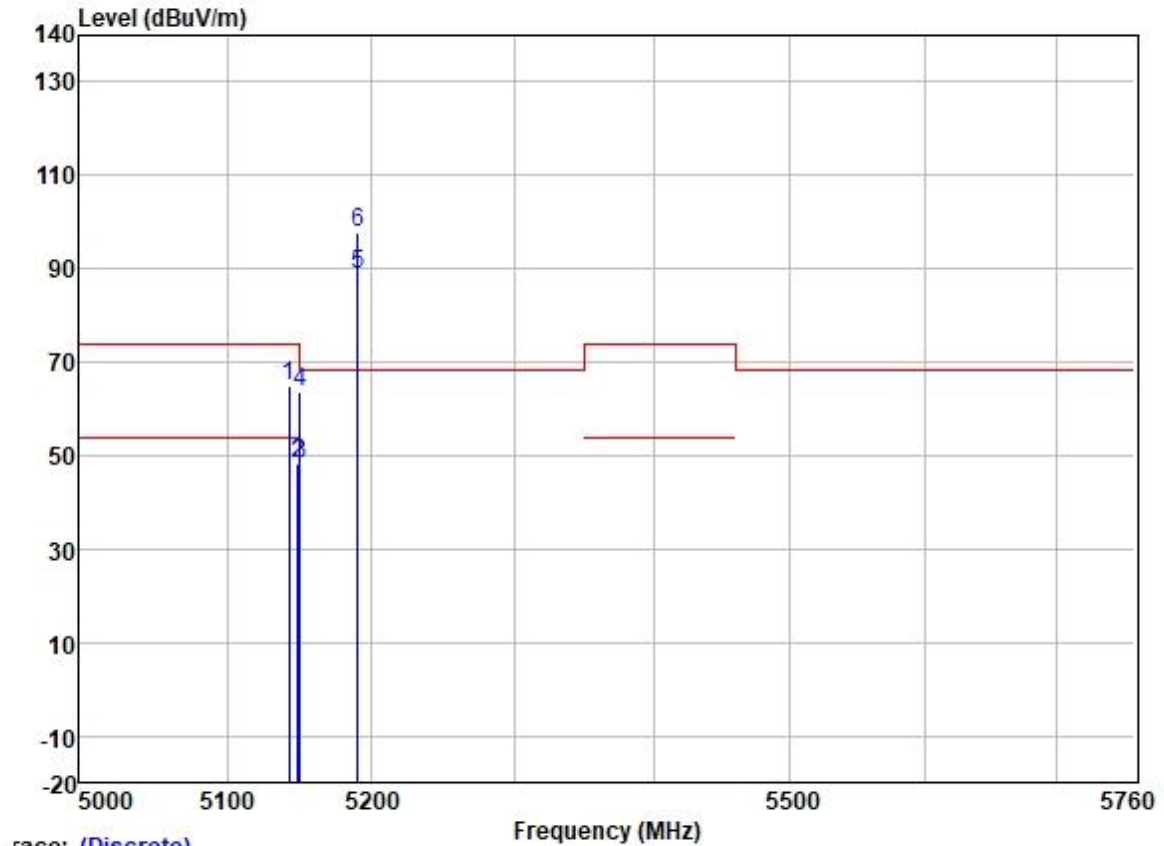
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	5240.000	92.89	31.75	5.74	36.87	93.51	-----	VERTICAL	Average
2 *	5240.000	102.63	31.75	5.74	36.87	103.25	68.20	35.05	VERTICAL
3	5350.020	39.46	31.77	6.05	36.88	40.40	54.00	-13.60	VERTICAL
4	5350.020	51.07	31.77	6.05	36.88	52.01	74.00	-21.99	VERTICAL
5	5353.762	51.99	31.77	6.05	36.88	52.93	74.00	-21.07	VERTICAL
6	5357.164	39.73	31.78	6.03	36.88	40.66	54.00	-13.34	VERTICAL

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

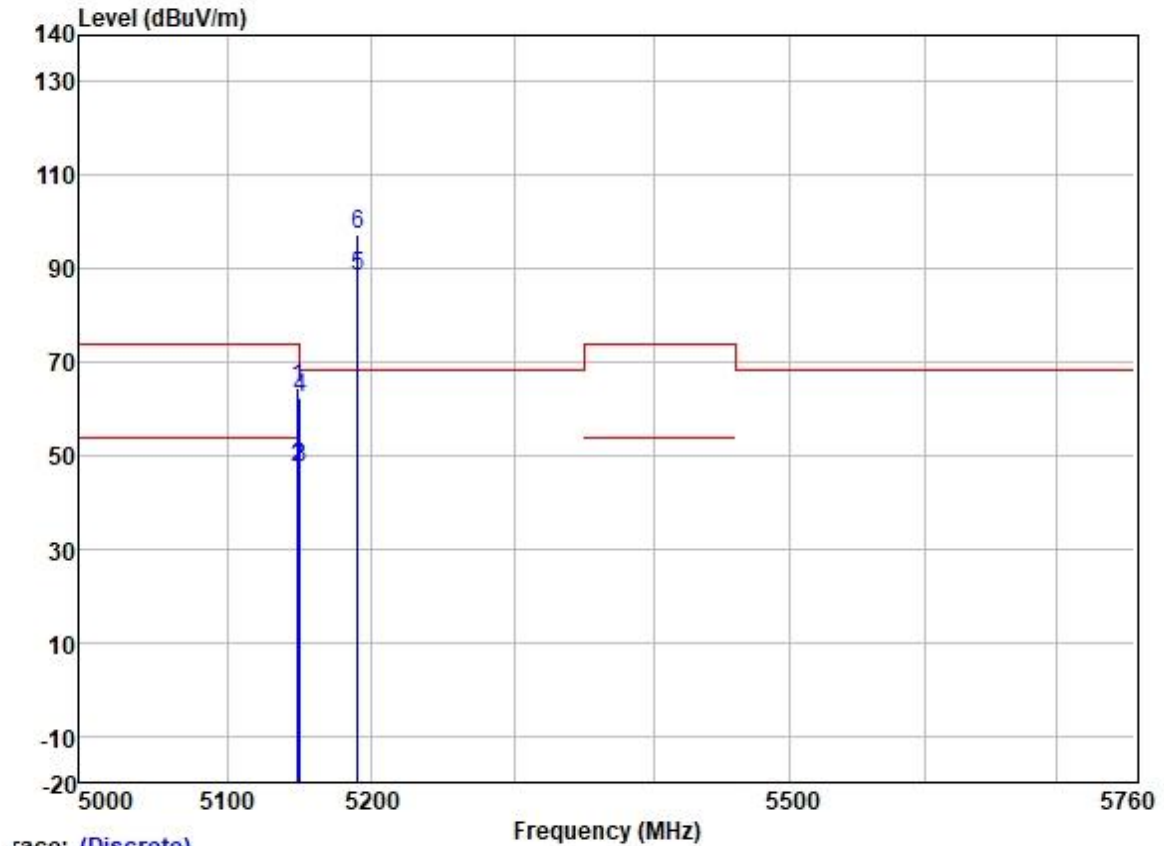


race: (Discrete)

	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	5142.520	64.54	31.72	5.62	36.86	65.02	74.00	-8.98	HORIZONTAL Peak
2	5148.503	47.75	31.72	5.62	36.86	48.23	54.00	-5.77	HORIZONTAL Average
3	5149.980	47.84	31.72	5.62	36.86	48.32	54.00	-5.68	HORIZONTAL Average
4	5149.980	63.35	31.72	5.62	36.86	63.83	74.00	-10.17	HORIZONTAL Peak
5	5190.000	88.39	31.73	5.60	36.87	88.85	-----	-----	HORIZONTAL Average
6 *	5190.000	97.44	31.73	5.60	36.87	97.90	68.20	29.70	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

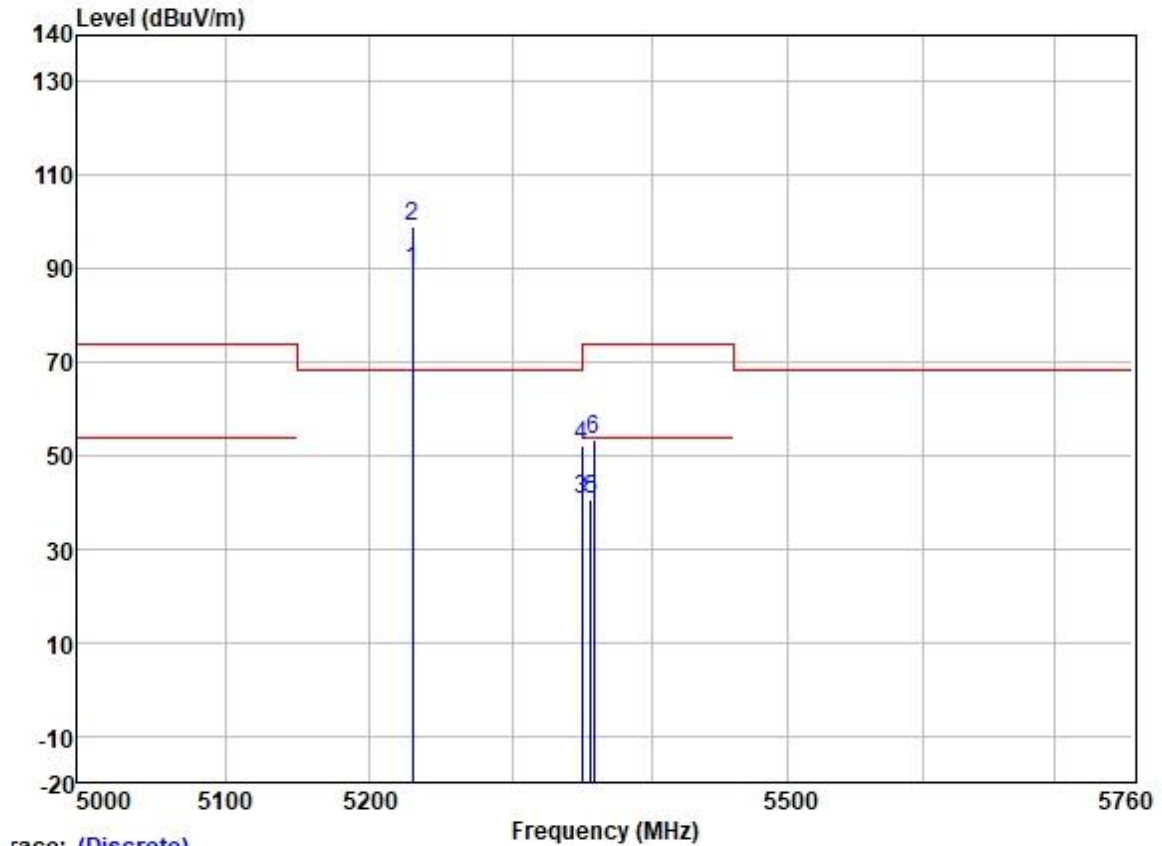


race: (Discrete)

	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	5148.982	63.85	31.72	5.62	36.86	64.33	74.00	-9.67	VERTICAL
2	5149.342	47.07	31.72	5.62	36.86	47.55	54.00	-6.45	VERTICAL
3	5149.980	46.99	31.72	5.62	36.86	47.47	54.00	-6.53	VERTICAL
4	5149.980	61.95	31.72	5.62	36.86	62.43	74.00	-11.57	VERTICAL
5	5190.000	87.86	31.73	5.60	36.87	88.32	-----	-----	VERTICAL
6 *	5190.000	96.91	31.73	5.60	36.87	97.37	68.20	29.17	VERTICAL



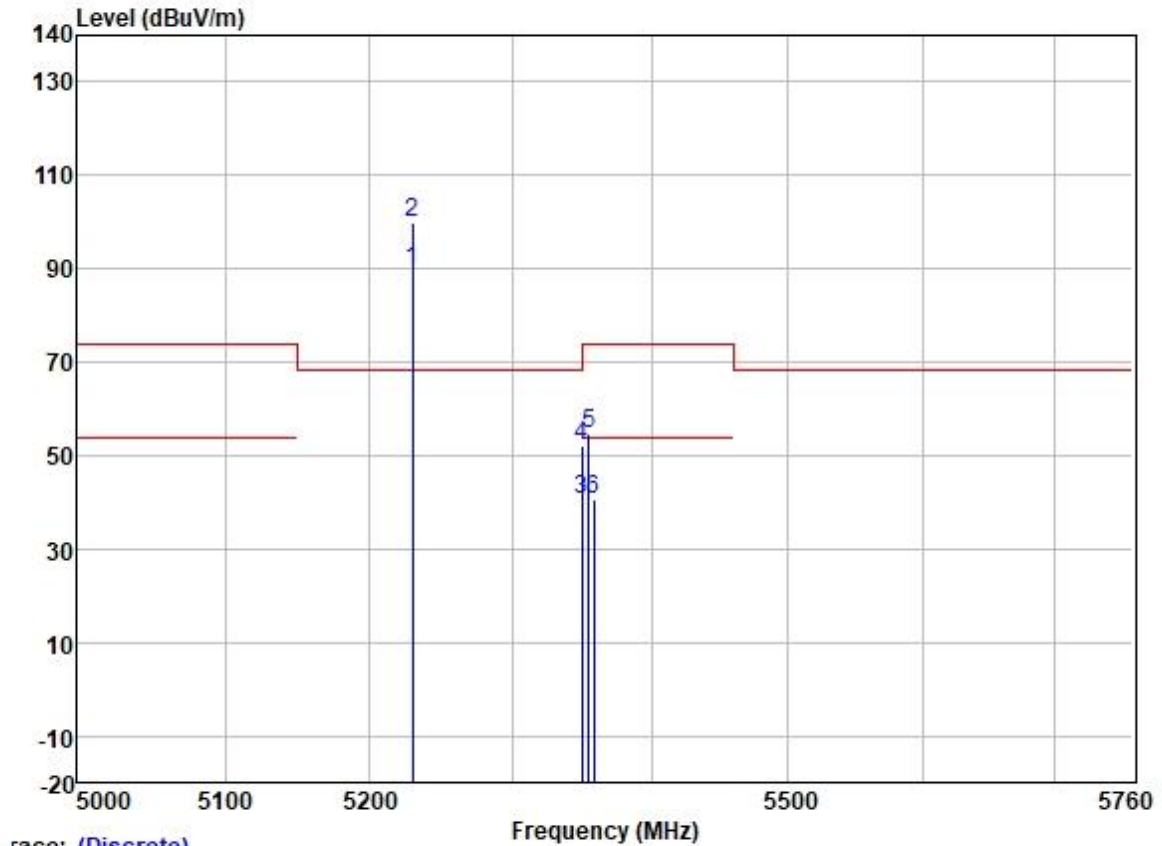
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	5230.000	89.28	31.74	5.70	36.87	89.85	-----	-----	HORIZONTAL Average
2 *	5230.000	98.27	31.74	5.70	36.87	98.84	68.20	30.64	HORIZONTAL Peak
3	5350.020	39.61	31.77	6.05	36.88	40.55	54.00	-13.45	HORIZONTAL Average
4	5350.020	51.22	31.77	6.05	36.88	52.16	74.00	-21.84	HORIZONTAL Peak
5	5356.265	39.75	31.78	6.03	36.88	40.68	54.00	-13.32	HORIZONTAL Average
6	5358.213	52.55	31.78	6.03	36.88	53.48	74.00	-20.52	HORIZONTAL Peak

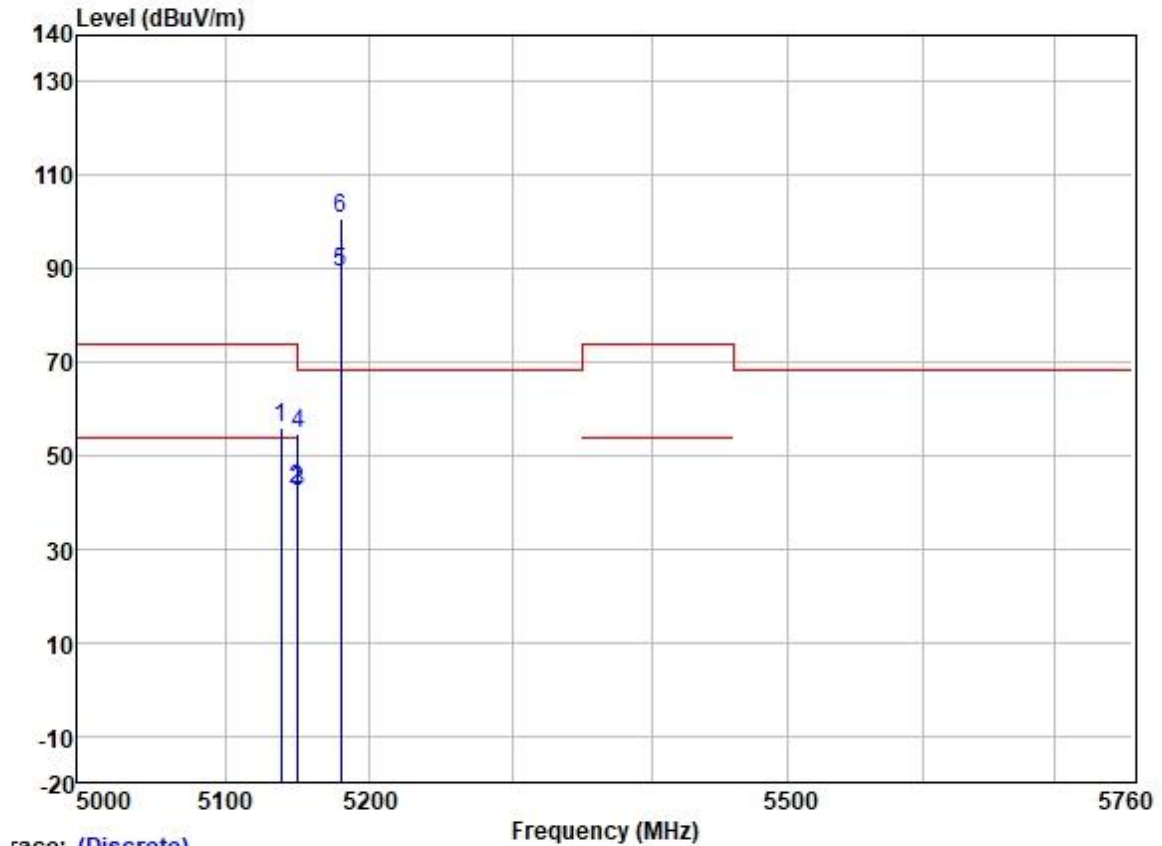
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	5230.000	89.18	31.74	5.70	36.87	89.75	-----	VERTICAL	Average
2 *	5230.000	99.26	31.74	5.70	36.87	99.83	68.20	31.63	VERTICAL
3	5350.020	39.46	31.77	6.05	36.88	40.40	54.00	-13.60	VERTICAL
4	5350.020	51.13	31.77	6.05	36.88	52.07	74.00	-21.93	VERTICAL
5	5354.805	53.66	31.78	6.03	36.88	54.59	74.00	-19.41	VERTICAL
6	5358.213	39.70	31.78	6.03	36.88	40.63	54.00	-13.37	VERTICAL

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

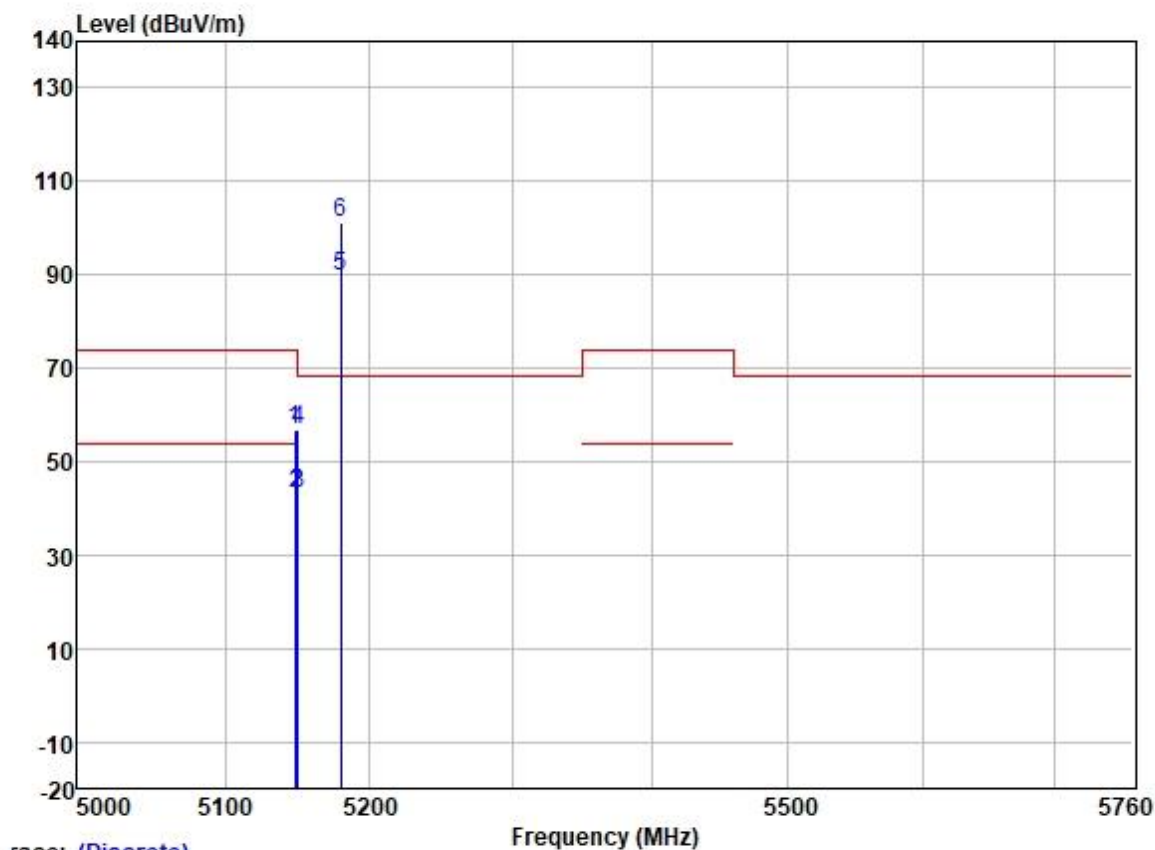


Trace: (Discrete)

	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	5138.370	55.57	31.72	5.63	36.86	56.06	74.00	-17.94	HORIZONTAL Peak
2	5149.057	42.12	31.72	5.62	36.86	42.60	54.00	-11.40	HORIZONTAL Average
3	5149.980	41.88	31.72	5.62	36.86	42.36	54.00	-11.64	HORIZONTAL Average
4	5149.980	54.31	31.72	5.62	36.86	54.79	74.00	-19.21	HORIZONTAL Peak
5	5180.000	88.72	31.73	5.61	36.87	89.19	-----	-----	HORIZONTAL Average
6 *	5180.000	100.34	31.73	5.61	36.87	100.81	68.20	32.61	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

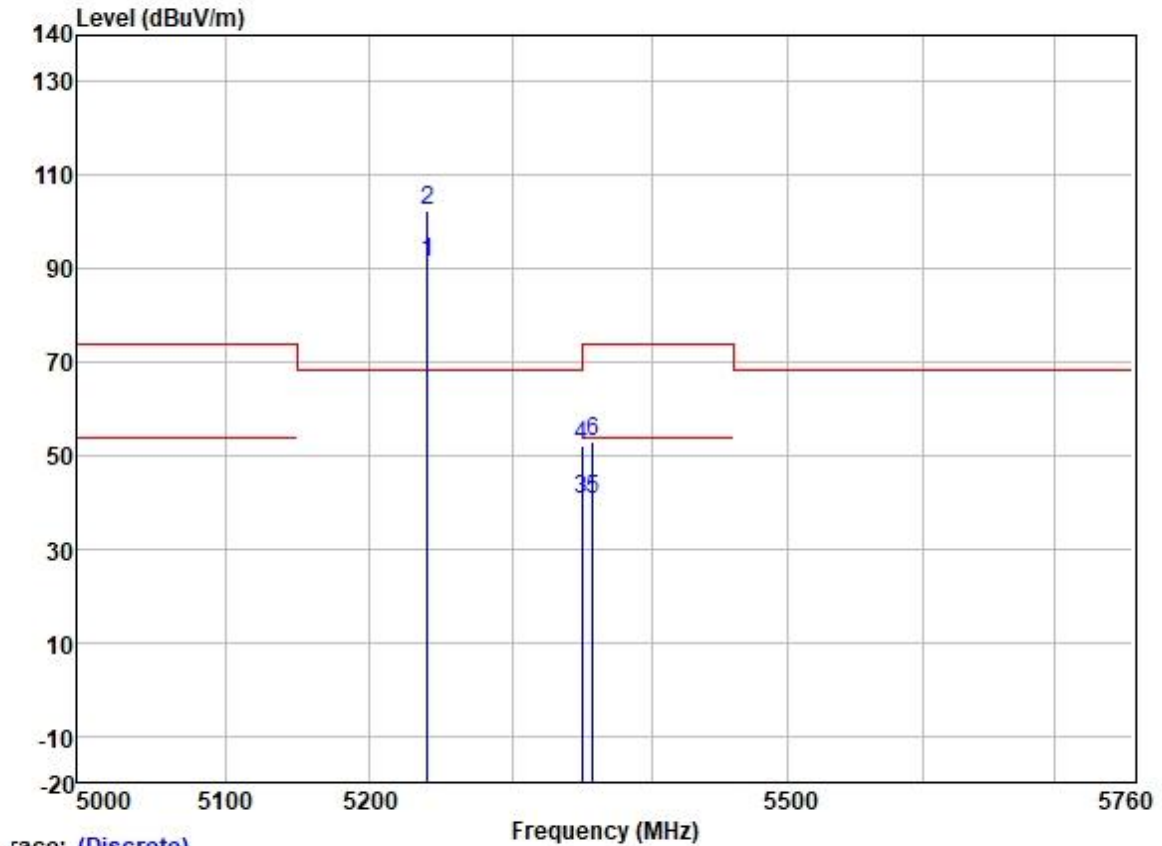


race: (Discrete)

	Freq	Read	Antenna	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	5147.658	56.23	31.72	5.62	36.86	56.71	74.00	-17.29	VERTICAL	Peak
2	5149.157	42.48	31.72	5.62	36.86	42.96	54.00	-11.04	VERTICAL	Average
3	5149.980	42.66	31.72	5.62	36.86	43.14	54.00	-10.86	VERTICAL	Average
4	5149.980	56.18	31.72	5.62	36.86	56.66	74.00	-17.34	VERTICAL	Peak
5	5180.000	89.39	31.73	5.61	36.87	89.86	-----	-----	VERTICAL	Average
6 *	5180.000	100.79	31.73	5.61	36.87	101.26	68.20	33.06	VERTICAL	Peak



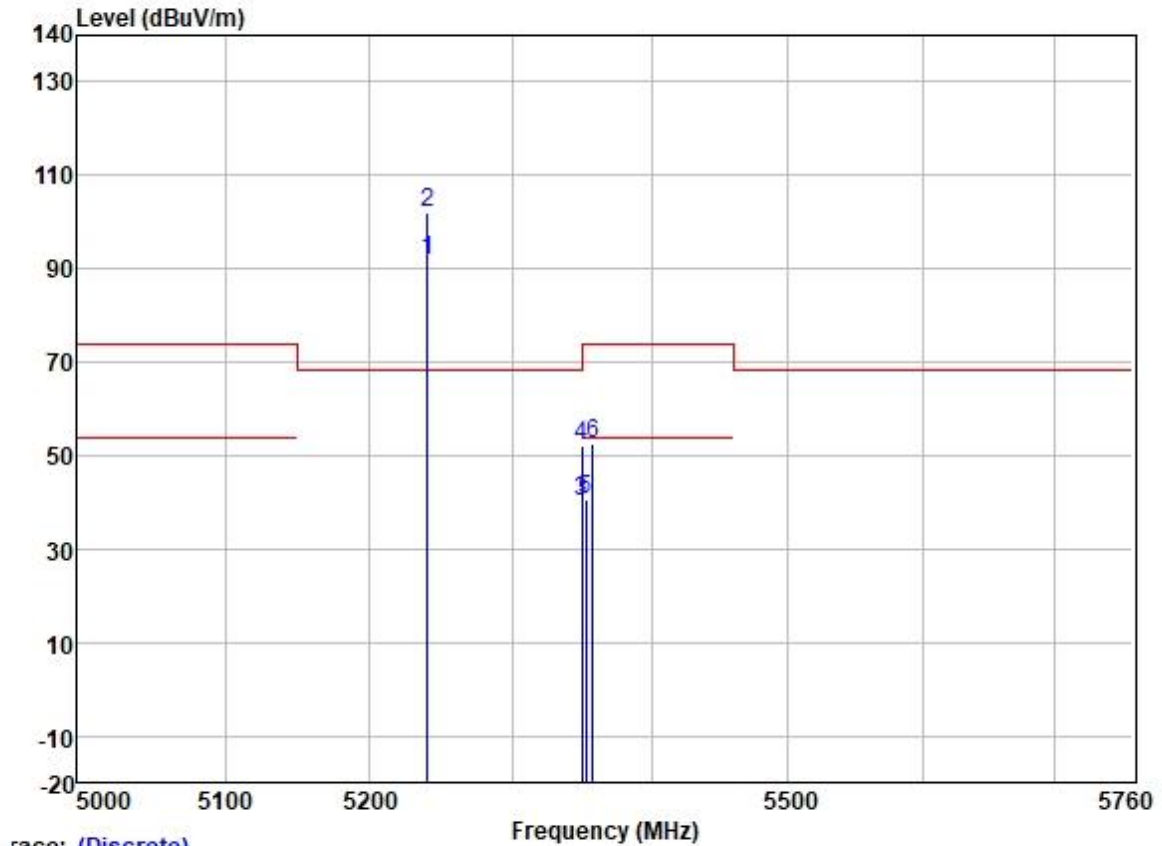
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



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	5240.000	90.59	31.75	5.74	36.87	91.21	-----	-----	HORIZONTAL Average
2 *	5240.000	102.02	31.75	5.74	36.87	102.64	68.20	34.44	HORIZONTAL Peak
3	5350.020	39.60	31.77	6.05	36.88	40.54	54.00	-13.46	HORIZONTAL Average
4	5350.020	51.28	31.77	6.05	36.88	52.22	74.00	-21.78	HORIZONTAL Peak
5	5357.305	39.62	31.78	6.03	36.88	40.55	54.00	-13.45	HORIZONTAL Average
6	5357.447	51.97	31.78	6.03	36.88	52.90	74.00	-21.10	HORIZONTAL Peak

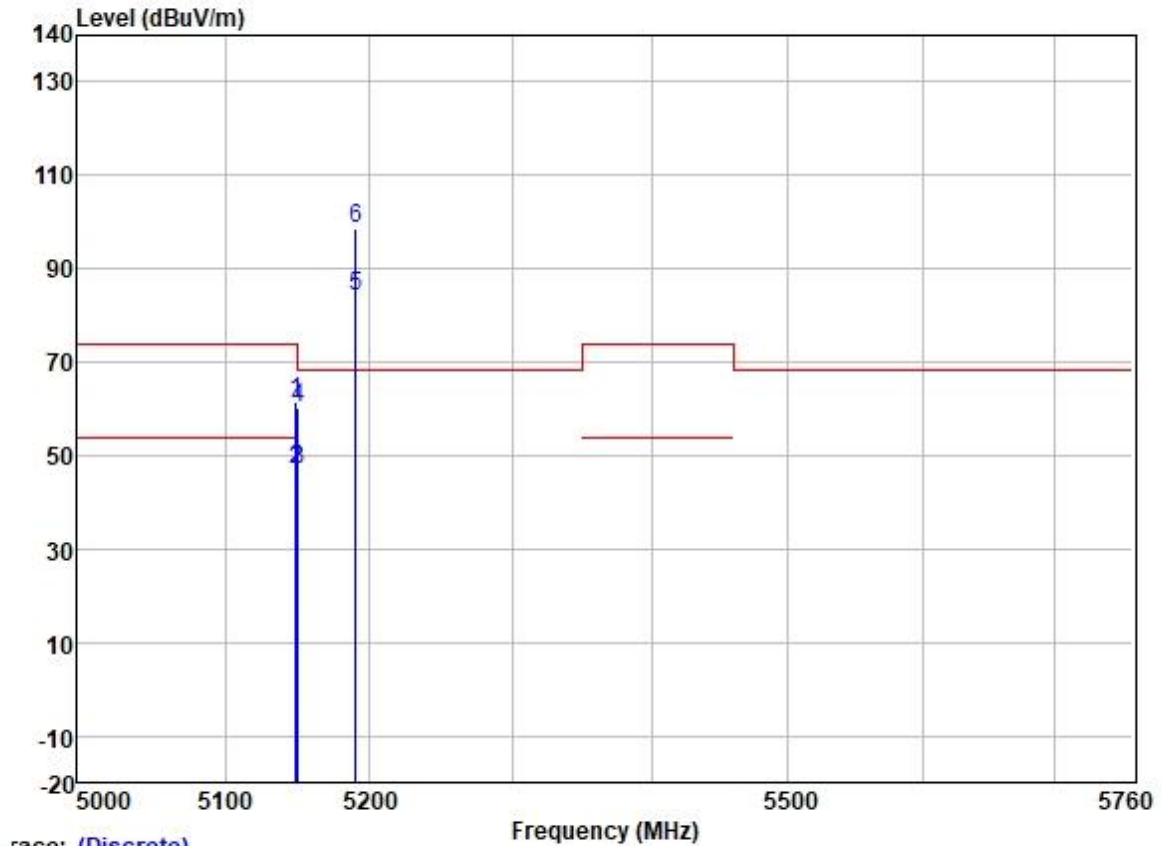
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	91.16	31.75	5.74	36.87	91.78	-----	-----	VERTICAL	Average
2 *	5240.000	101.54	31.75	5.74	36.87	102.16	68.20	33.96	VERTICAL	Peak
3	5350.020	39.38	31.77	6.05	36.88	40.32	54.00	-13.68	VERTICAL	Average
4	5350.020	51.08	31.77	6.05	36.88	52.02	74.00	-21.98	VERTICAL	Peak
5	5352.770	39.60	31.77	6.05	36.88	40.54	54.00	-13.46	VERTICAL	Average
6	5357.447	51.66	31.78	6.03	36.88	52.59	74.00	-21.41	VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low

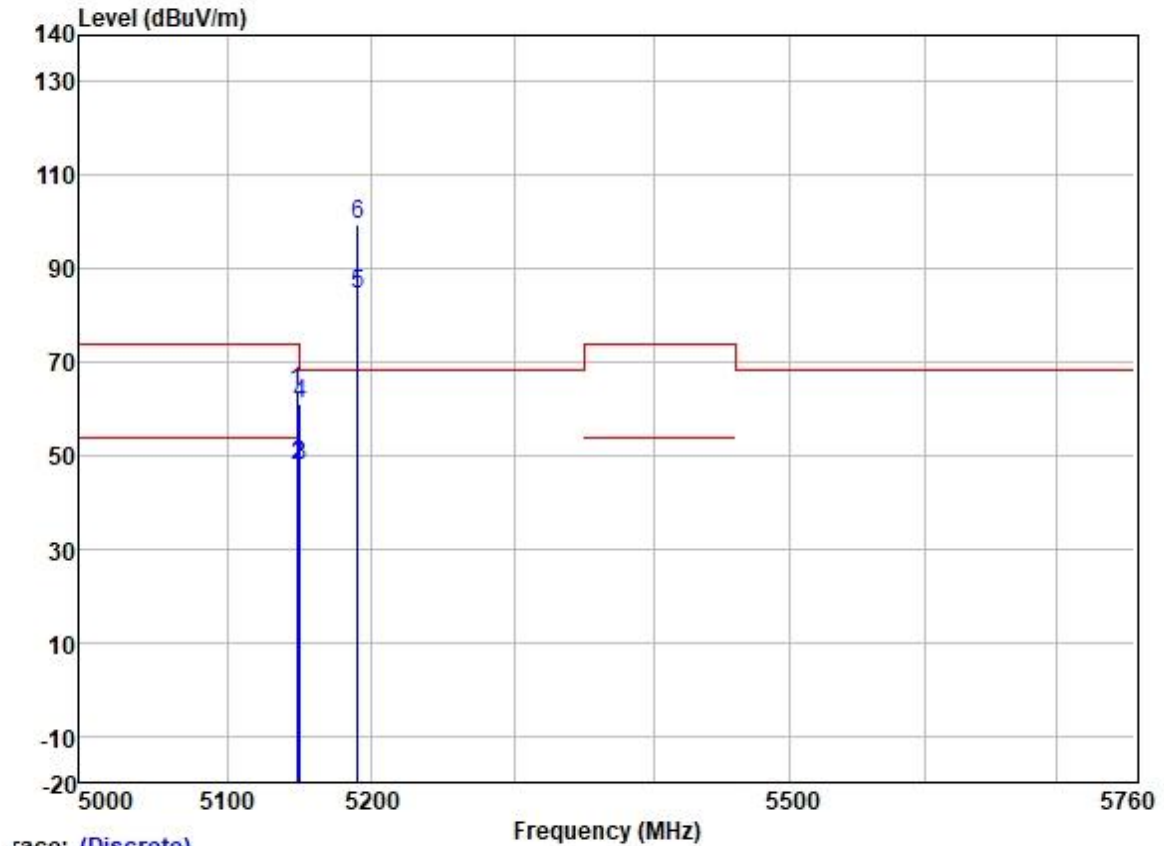


Trace: (Discrete)

	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	dBuV/m	dB	
1	5148.503	61.05	31.72	5.62	36.86	61.53	74.00	-12.47	HORIZONTAL Peak
2	5149.102	46.39	31.72	5.62	36.86	46.87	54.00	-7.13	HORIZONTAL Average
3	5149.980	46.36	31.72	5.62	36.86	46.84	54.00	-7.16	HORIZONTAL Average
4	5149.980	59.87	31.72	5.62	36.86	60.35	74.00	-13.65	HORIZONTAL Peak
5	5190.000	83.77	31.73	5.60	36.87	84.23	-----	-----	HORIZONTAL Average
6 *	5190.000	98.16	31.73	5.60	36.87	98.62	68.20	30.42	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

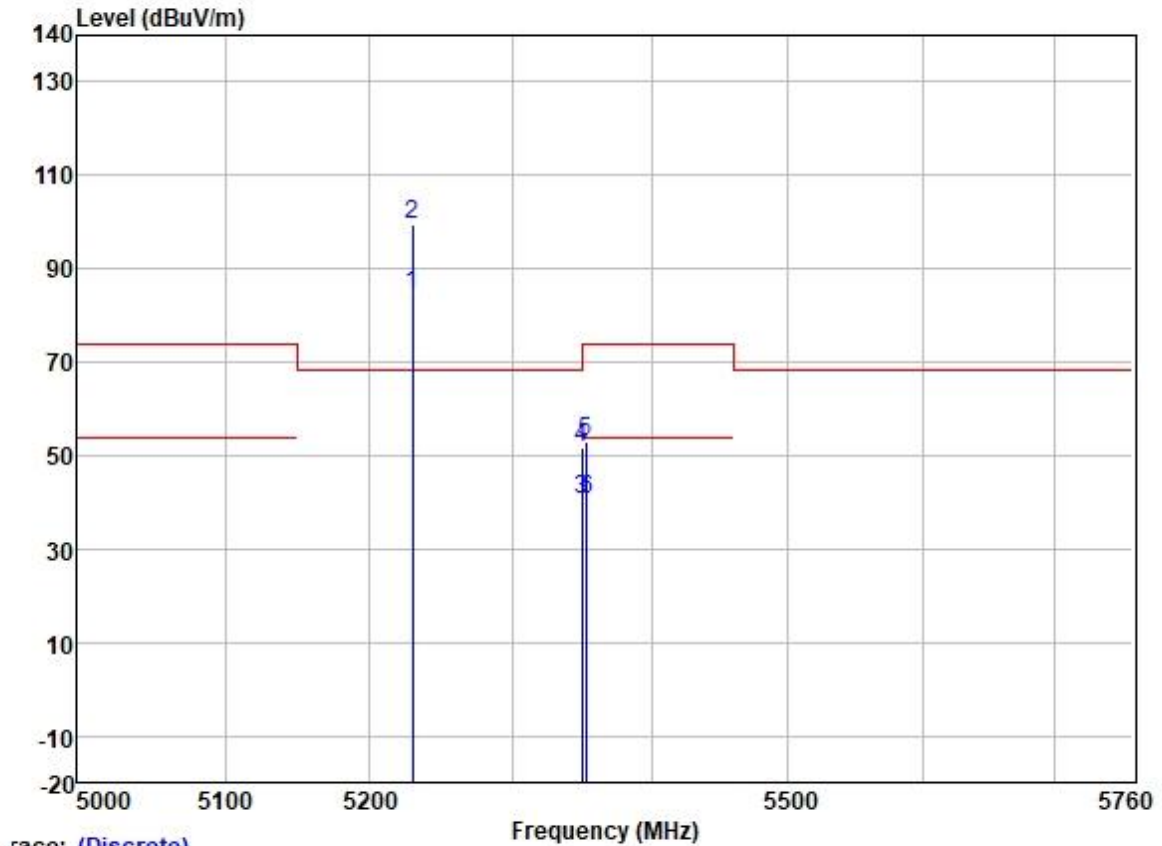


race: (Discrete)

	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	5148.144	63.10	31.72	5.62	36.86	63.58	74.00	-10.42	VERTICAL
2	5149.342	47.22	31.72	5.62	36.86	47.70	54.00	-6.30	VERTICAL
3	5149.980	47.32	31.72	5.62	36.86	47.80	54.00	-6.20	VERTICAL
4	5149.980	60.47	31.72	5.62	36.86	60.95	74.00	-13.05	VERTICAL
5	5190.000	84.07	31.73	5.60	36.87	84.53	-----	-----	VERTICAL
6 *	5190.000	99.04	31.73	5.60	36.87	99.50	68.20	31.30	VERTICAL



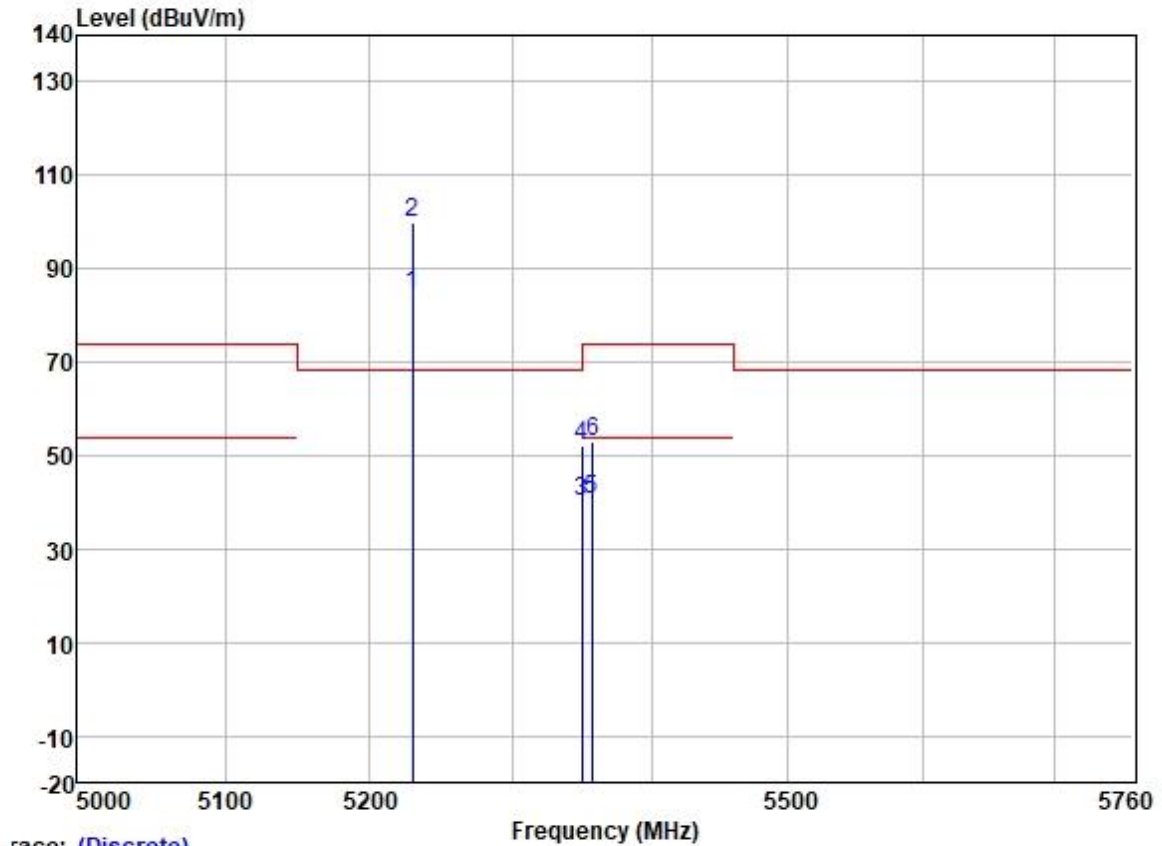
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

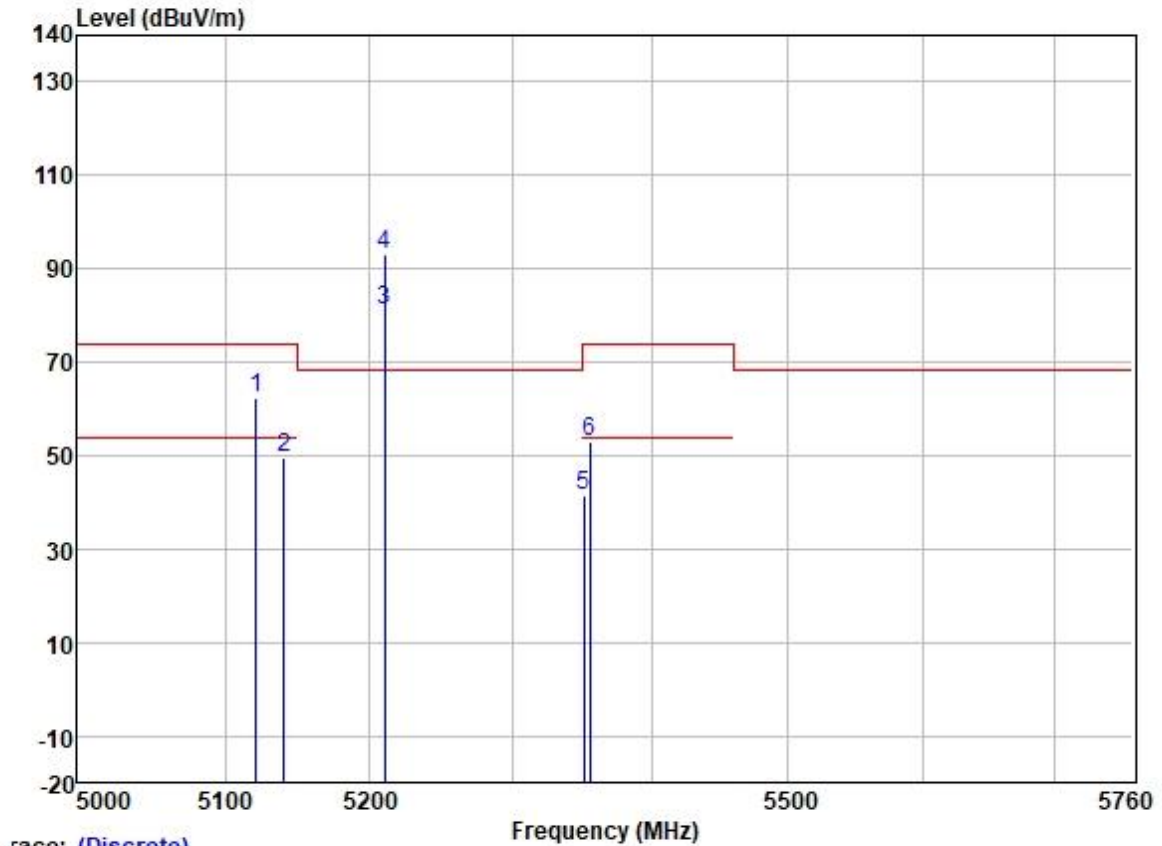
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	84.09	31.74	5.70	36.87	84.66	-----	-----	HORIZONTAL Average
2 *	5230.000	98.83	31.74	5.70	36.87	99.40	68.20	31.20	HORIZONTAL Peak
3	5350.020	39.49	31.77	6.05	36.88	40.43	54.00	-13.57	HORIZONTAL Average
4	5350.020	50.69	31.77	6.05	36.88	51.63	74.00	-22.37	HORIZONTAL Peak
5	5352.371	52.06	31.77	6.05	36.88	53.00	74.00	-21.00	HORIZONTAL Peak
6	5353.669	39.60	31.77	6.05	36.88	40.54	54.00	-13.46	HORIZONTAL Average

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; 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	5230.000	84.16	31.74	5.70	36.87	84.73	-----	-----	VERTICAL	Average
2 *	5230.000	99.46	31.74	5.70	36.87	100.03	68.20	31.83	VERTICAL	Peak
3	5350.020	39.36	31.77	6.05	36.88	40.30	54.00	-13.70	VERTICAL	Average
4	5350.020	51.36	31.77	6.05	36.88	52.30	74.00	-21.70	VERTICAL	Peak
5	5357.239	39.62	31.78	6.03	36.88	40.55	54.00	-13.45	VERTICAL	Average
6	5357.727	51.88	31.78	6.03	36.88	52.81	74.00	-21.19	VERTICAL	Peak

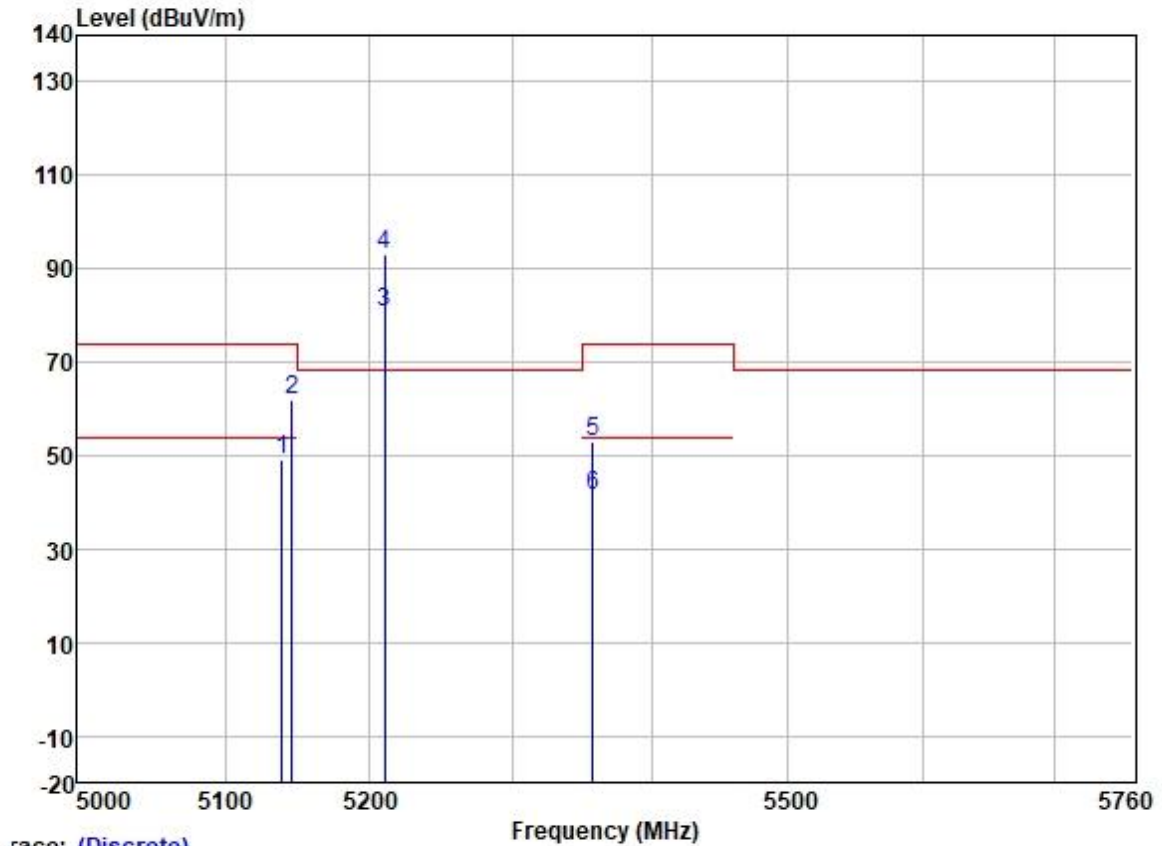
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



	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	5121.346	61.82	31.72	5.64	36.86	62.32	74.00	-11.68	HORIZONTAL Peak
2	5140.225	49.12	31.72	5.63	36.86	49.61	54.00	-4.39	HORIZONTAL Average
3	5210.000	80.53	31.74	5.65	36.87	81.05	-----	-----	HORIZONTAL Average
4 *	5210.000	92.42	31.74	5.65	36.87	92.94	68.20	24.74	HORIZONTAL Peak
5	5351.212	40.61	31.77	6.05	36.88	41.55	54.00	-12.45	HORIZONTAL Average
6	5355.471	51.98	31.78	6.03	36.88	52.91	74.00	-21.09	HORIZONTAL Peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

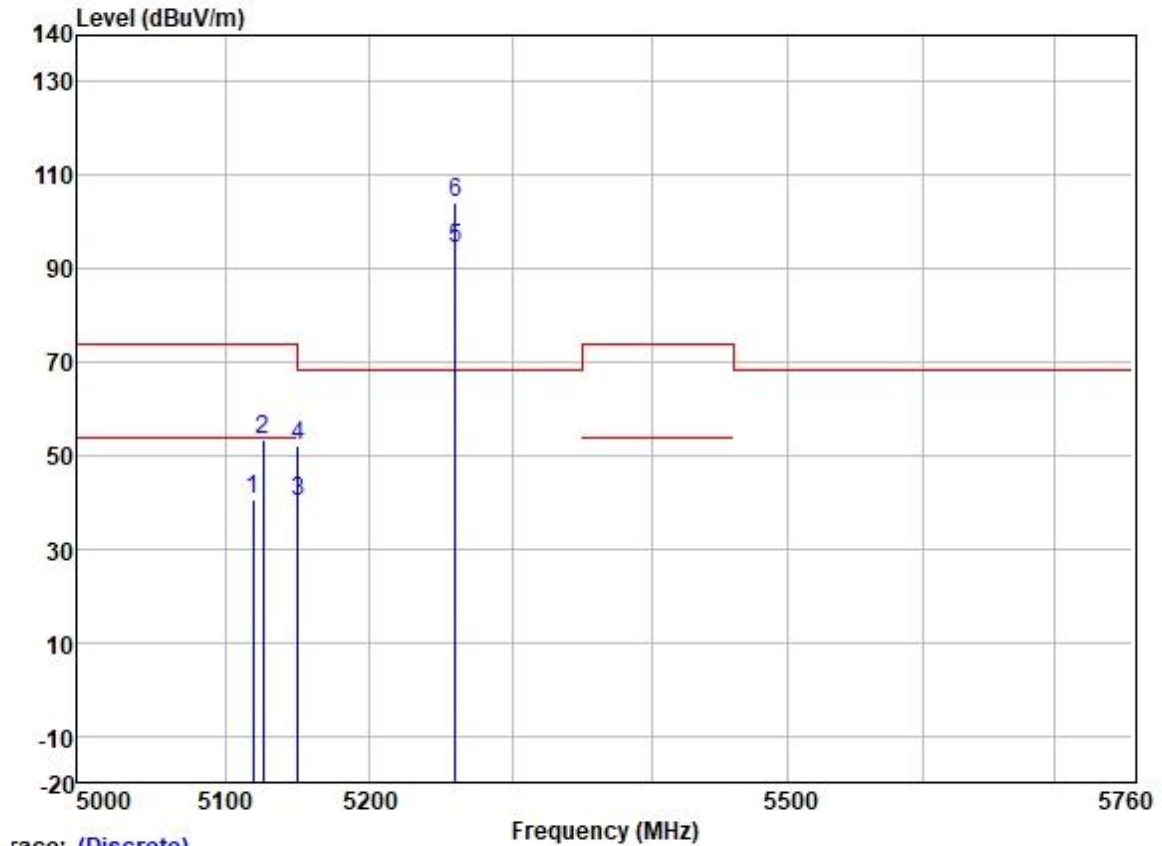


Trace: (Discrete)

	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	5139.203	48.42	31.72	5.63	36.86	48.91	54.00	-5.09	VERTICAL
2	5146.107	61.64	31.72	5.62	36.86	62.12	74.00	-11.88	VERTICAL
3	5210.000	80.23	31.74	5.65	36.87	80.75	-----	-----	VERTICAL
4 *	5210.000	92.61	31.74	5.65	36.87	93.13	68.20	24.93	VERTICAL
5	5357.335	52.23	31.78	6.03	36.88	53.16	74.00	-20.84	VERTICAL
6	5357.868	40.36	31.78	6.03	36.88	41.29	54.00	-12.71	VERTICAL



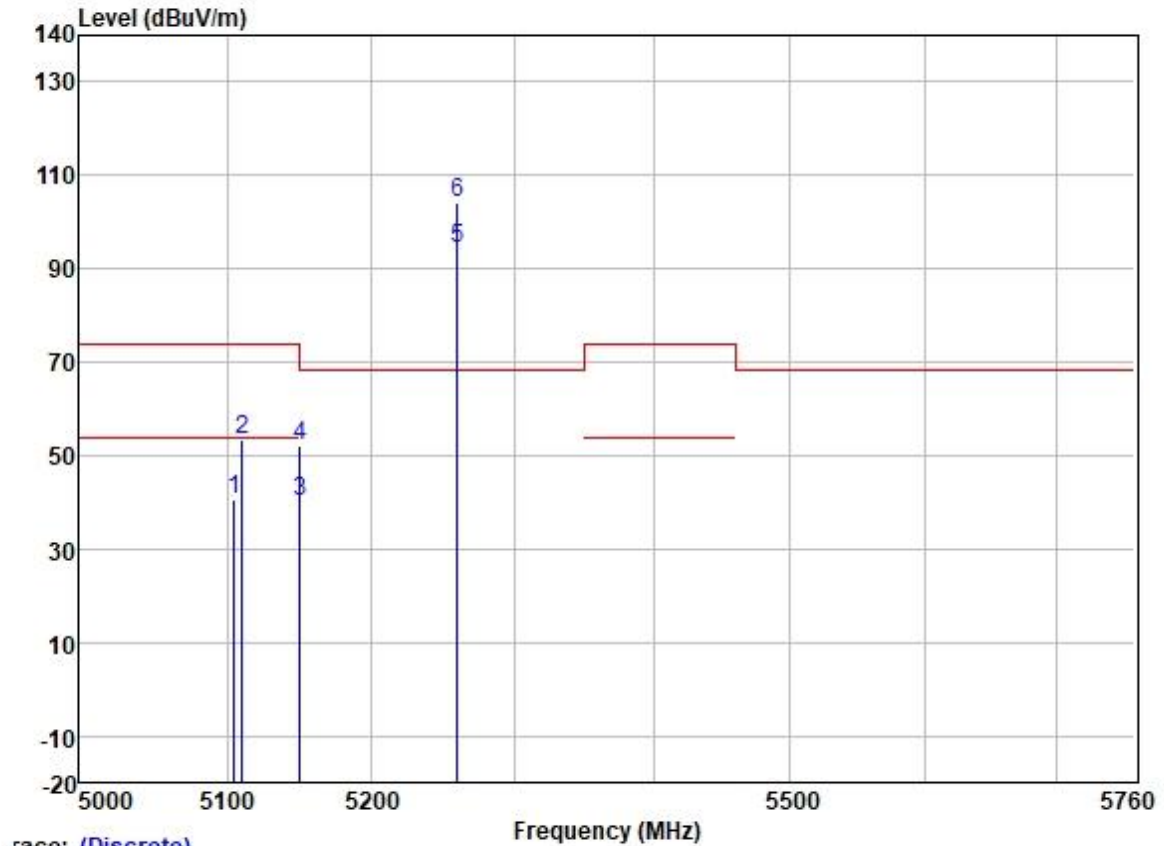
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

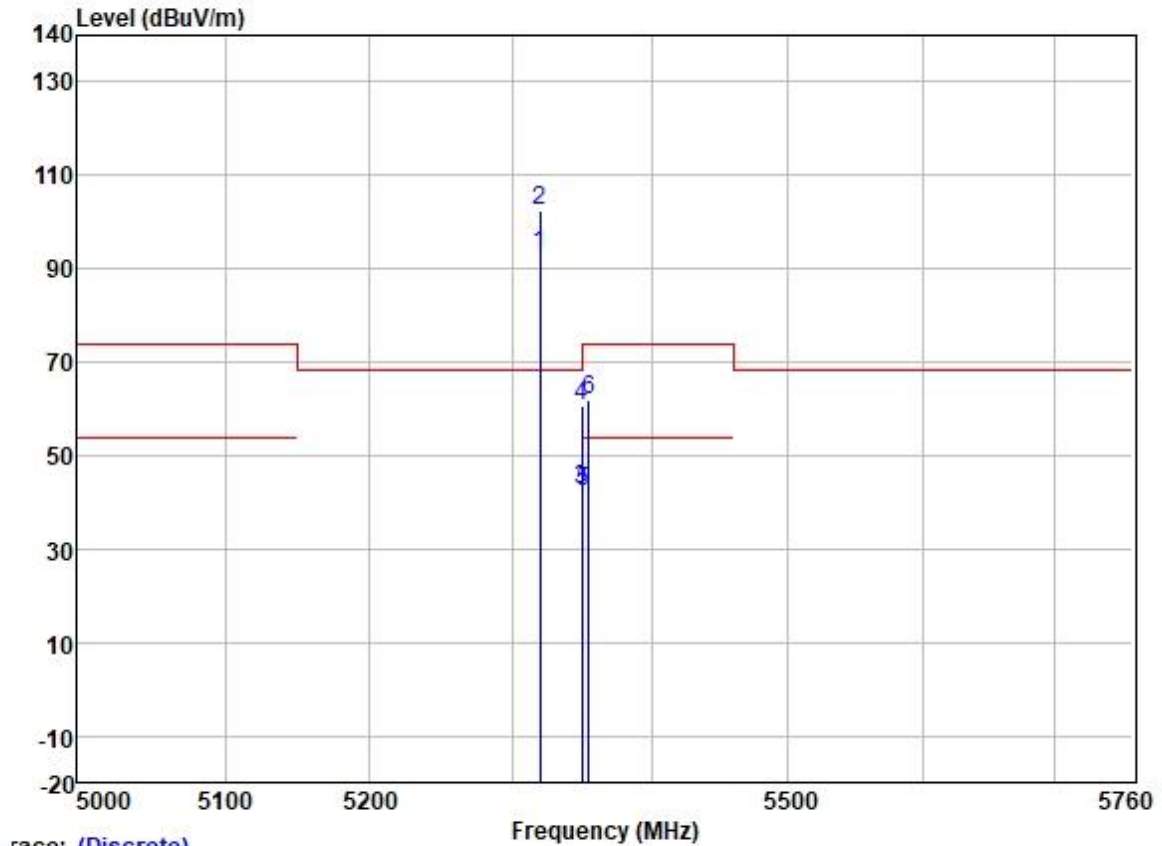
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5119.318	40.21	31.72	5.64	36.86	40.71	54.00	-13.29	HORIZONTAL Average
2	5125.714	52.80	31.72	5.64	36.86	53.30	74.00	-20.70	HORIZONTAL Peak
3	5149.980	39.67	31.72	5.62	36.86	40.15	54.00	-13.85	HORIZONTAL Average
4	5149.980	51.76	31.72	5.62	36.86	52.24	74.00	-21.76	HORIZONTAL Peak
5	5260.000	93.82	31.75	5.77	36.87	94.47	-----	-----	HORIZONTAL Average
6 *	5260.000	103.34	31.75	5.77	36.87	103.99	68.20	35.79	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; 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	5104.778	39.97	31.72	5.65	36.86	40.48	54.00	-13.52	VERTICAL
2	5110.625	52.90	31.72	5.65	36.86	53.41	74.00	-20.59	VERTICAL
3	5149.980	39.61	31.72	5.62	36.86	40.09	54.00	-13.91	VERTICAL
4	5149.980	51.65	31.72	5.62	36.86	52.13	74.00	-21.87	VERTICAL
5	5260.000	93.72	31.75	5.77	36.87	94.37	-----	-----	VERTICAL
6 *	5260.000	103.31	31.75	5.77	36.87	103.96	68.20	35.76	VERTICAL

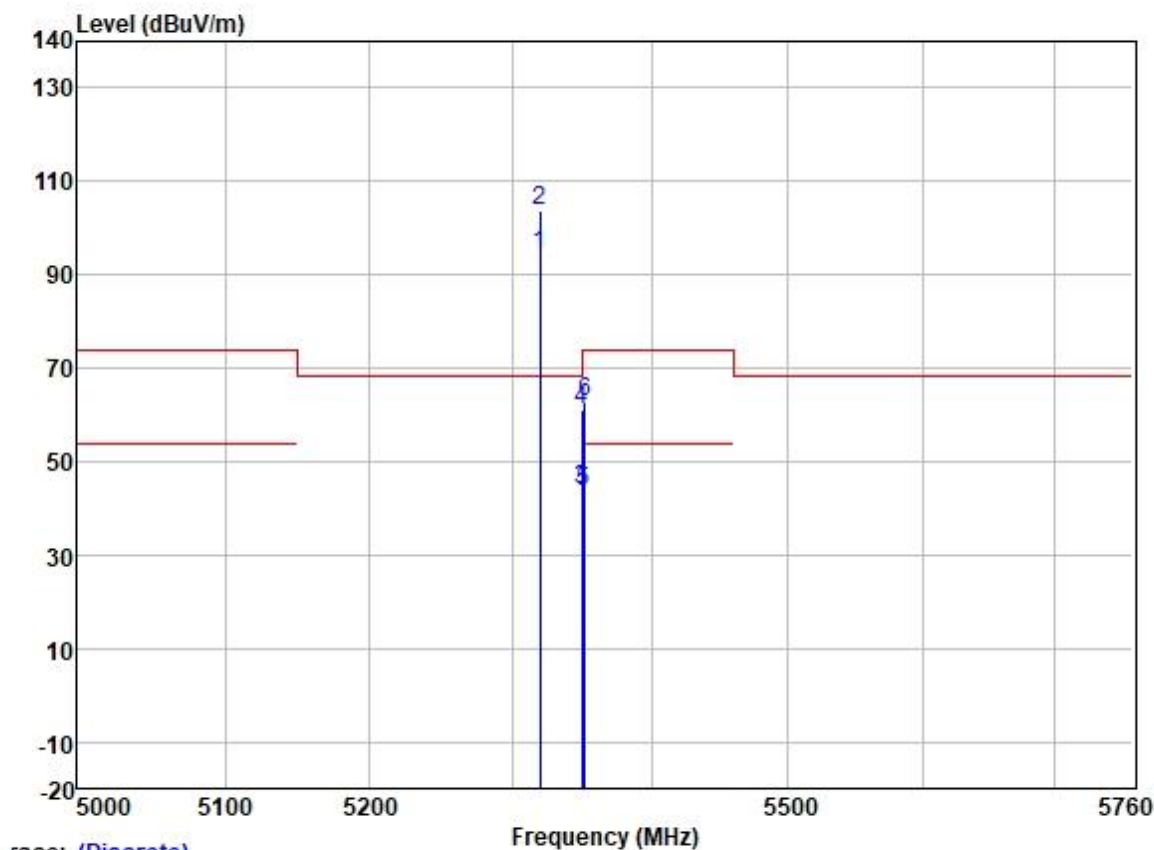
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	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	5320.000	91.99	31.77	6.08	36.88	92.96	-----	-----	HORIZONTAL	Average
2 *	5320.000	101.53	31.77	6.08	36.88	102.50	68.20	34.30	HORIZONTAL	Peak
3	5350.020	41.98	31.77	6.05	36.88	42.92	54.00	-11.08	HORIZONTAL	Average
4	5350.020	59.88	31.77	6.05	36.88	60.82	74.00	-13.18	HORIZONTAL	Peak
5	5350.566	41.50	31.77	6.05	36.88	42.44	54.00	-11.56	HORIZONTAL	Average
6	5355.069	60.89	31.78	6.03	36.88	61.82	74.00	-12.18	HORIZONTAL	Peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

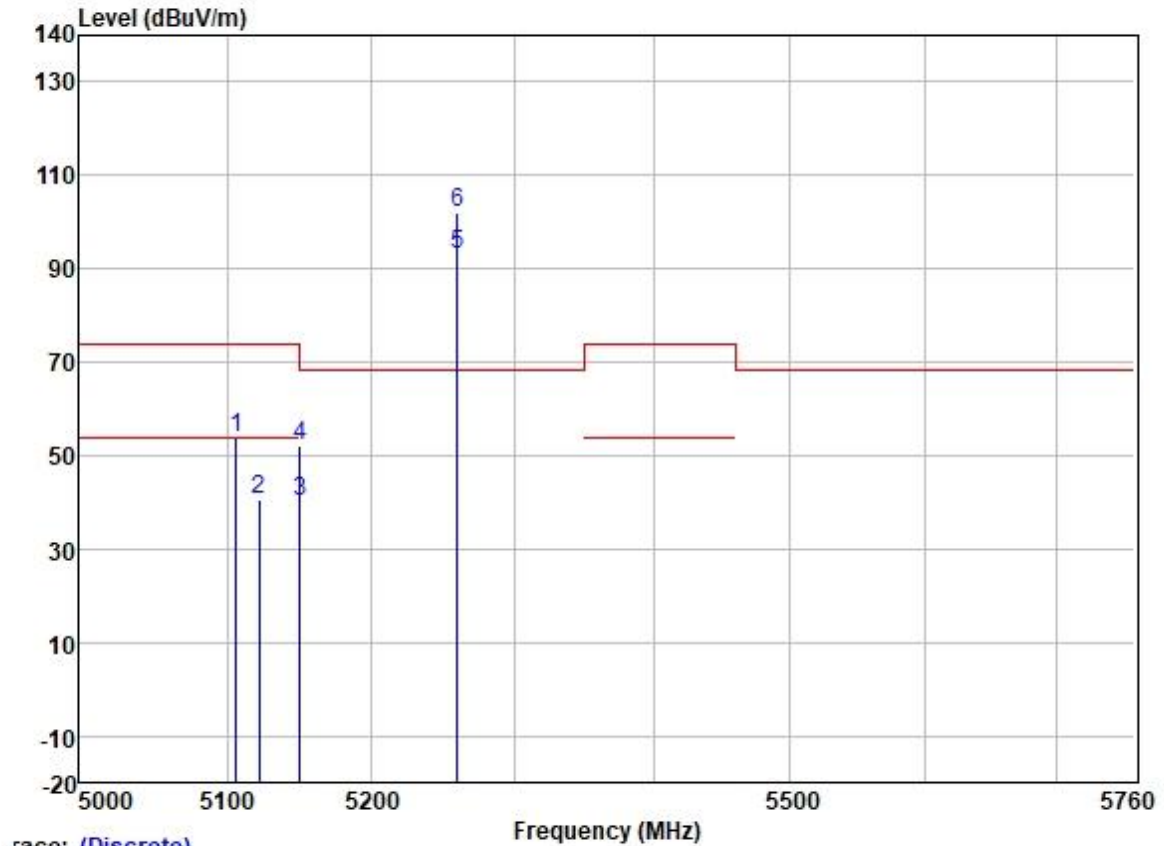


race: (Discrete)

	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	5320.000	93.26	31.77	6.08	36.88	94.23	-----	VERTICAL	Average
2 *	5320.000	102.57	31.77	6.08	36.88	103.54	68.20	35.34	VERTICAL
3	5350.020	43.03	31.77	6.05	36.88	43.97	54.00	-10.03	VERTICAL
4	5350.020	60.17	31.77	6.05	36.88	61.11	74.00	-12.89	VERTICAL
5	5350.667	42.61	31.77	6.05	36.88	43.55	54.00	-10.45	VERTICAL
6	5351.867	61.98	31.77	6.05	36.88	62.92	74.00	-11.08	VERTICAL

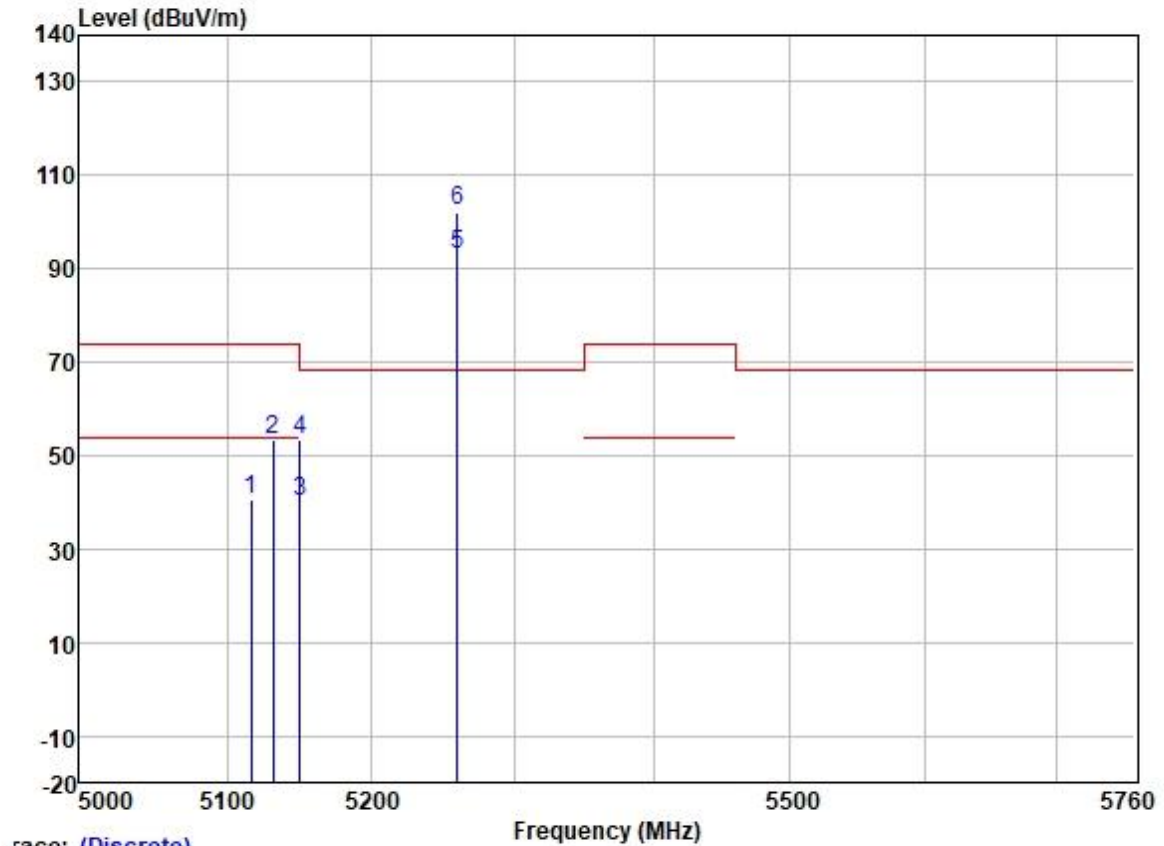


Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



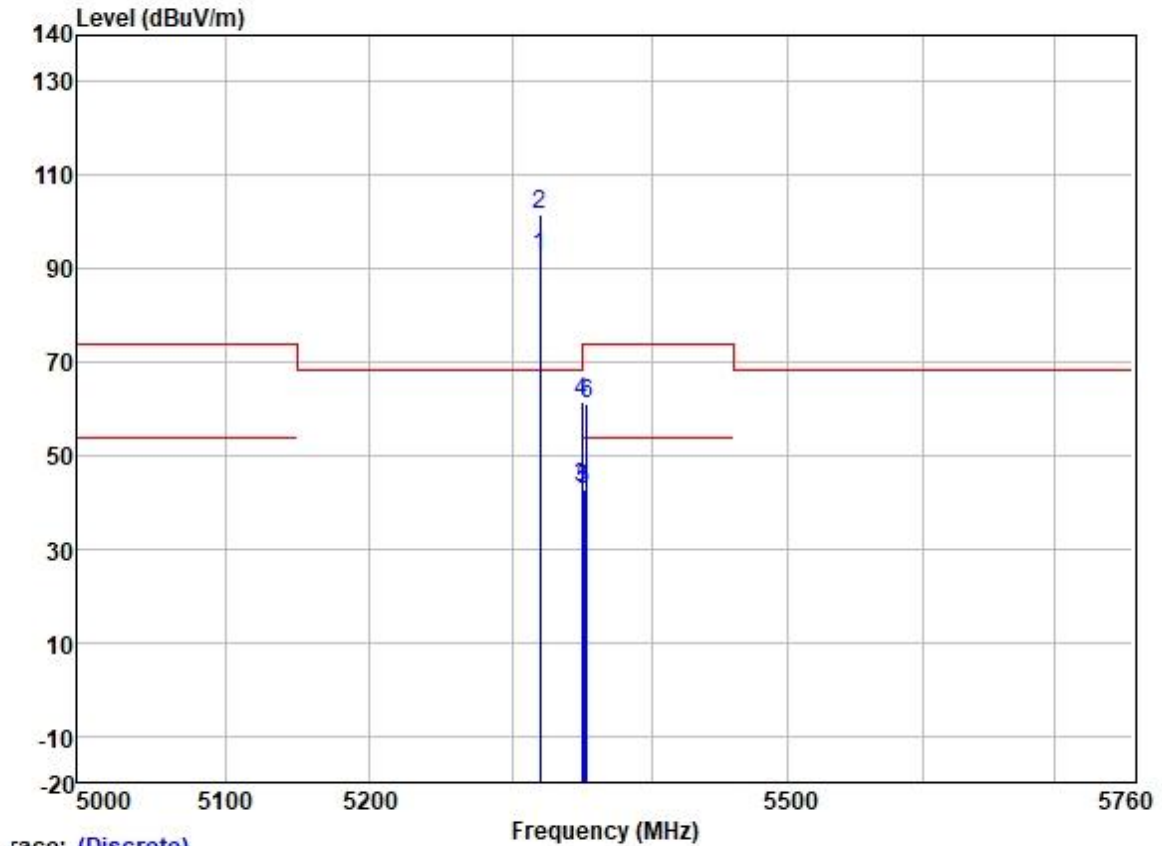
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.195	53.11	31.72	5.65	36.86	53.62	74.00	-20.38	HORIZONTAL Peak
2	5121.805	39.91	31.72	5.64	36.86	40.41	54.00	-13.59	HORIZONTAL Average
3	5149.980	39.63	31.72	5.62	36.86	40.11	54.00	-13.89	HORIZONTAL Average
4	5149.980	51.48	31.72	5.62	36.86	51.96	74.00	-22.04	HORIZONTAL Peak
5	5260.000	92.53	31.75	5.77	36.87	93.18	-----	-----	HORIZONTAL Average
6 *	5260.000	101.30	31.75	5.77	36.87	101.95	68.20	33.75	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; 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	5116.478	39.97	31.72	5.64	36.86	40.47	54.00	-13.53	VERTICAL Average
2	5131.407	52.82	31.72	5.63	36.86	53.31	74.00	-20.69	VERTICAL Peak
3	5149.980	39.65	31.72	5.62	36.86	40.13	54.00	-13.87	VERTICAL Average
4	5149.980	52.81	31.72	5.62	36.86	53.29	74.00	-20.71	VERTICAL Peak
5	5260.000	92.30	31.75	5.77	36.87	92.95	-----	-----	VERTICAL Average
6 *	5260.000	101.59	31.75	5.77	36.87	102.24	68.20	34.04	VERTICAL Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

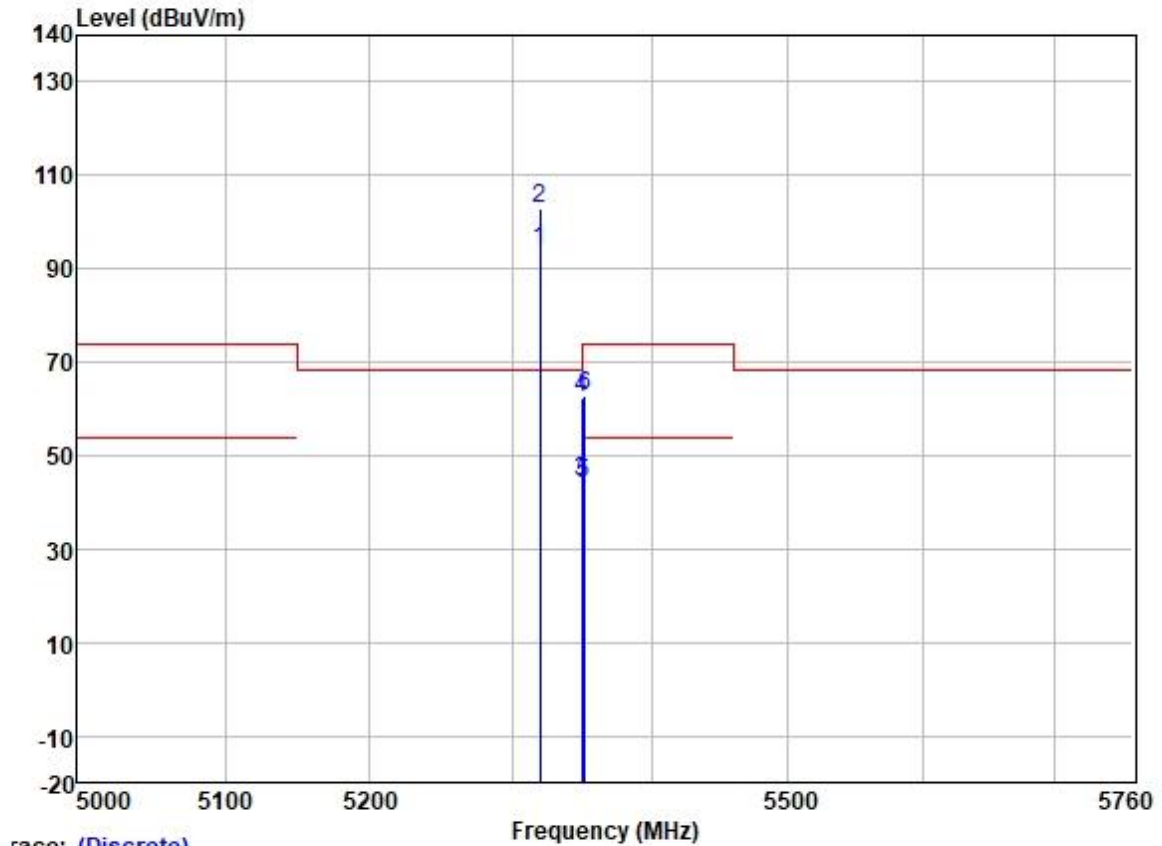


race: (Discrete)

	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	5320.000	91.64	31.77	6.08	36.88	92.61	-----	-----	HORIZONTAL Average
2 *	5320.000	100.45	31.77	6.08	36.88	101.42	68.20	33.22	HORIZONTAL Peak
3	5350.020	42.07	31.77	6.05	36.88	43.01	54.00	-10.99	HORIZONTAL Average
4	5350.020	60.75	31.77	6.05	36.88	61.69	74.00	-12.31	HORIZONTAL Peak
5	5351.467	41.88	31.77	6.05	36.88	42.82	54.00	-11.18	HORIZONTAL Average
6	5353.568	60.22	31.77	6.05	36.88	61.16	74.00	-12.84	HORIZONTAL Peak



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

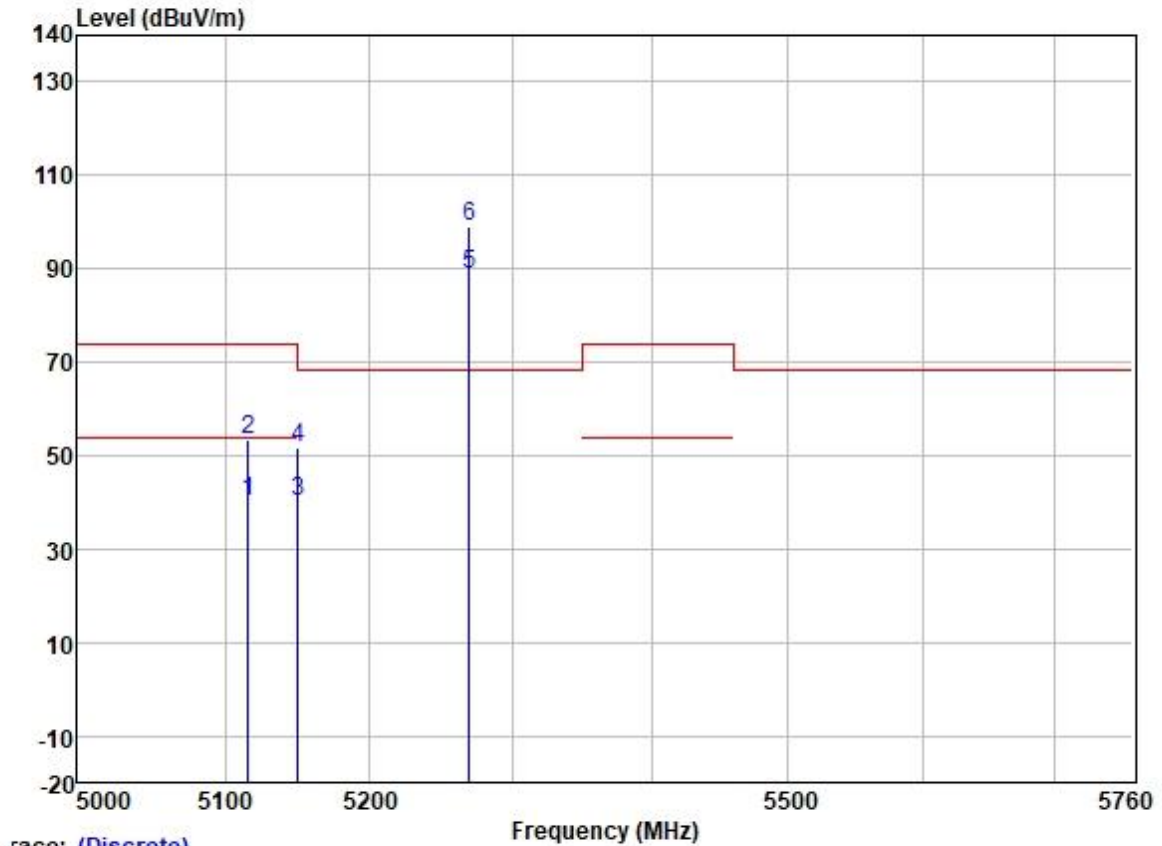


race: (Discrete)

	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	5320.000	92.92	31.77	6.08	36.88	93.89	-----	VERTICAL	Average
2 *	5320.000	101.89	31.77	6.08	36.88	102.86	68.20	34.66 VERTICAL	Peak
3	5350.020	43.46	31.77	6.05	36.88	44.40	54.00	-9.60 VERTICAL	Average
4	5350.020	61.49	31.77	6.05	36.88	62.43	74.00	-11.57 VERTICAL	Peak
5	5351.267	43.06	31.77	6.05	36.88	44.00	54.00	-10.00 VERTICAL	Average
6	5352.067	61.63	31.77	6.05	36.88	62.57	74.00	-11.43 VERTICAL	Peak



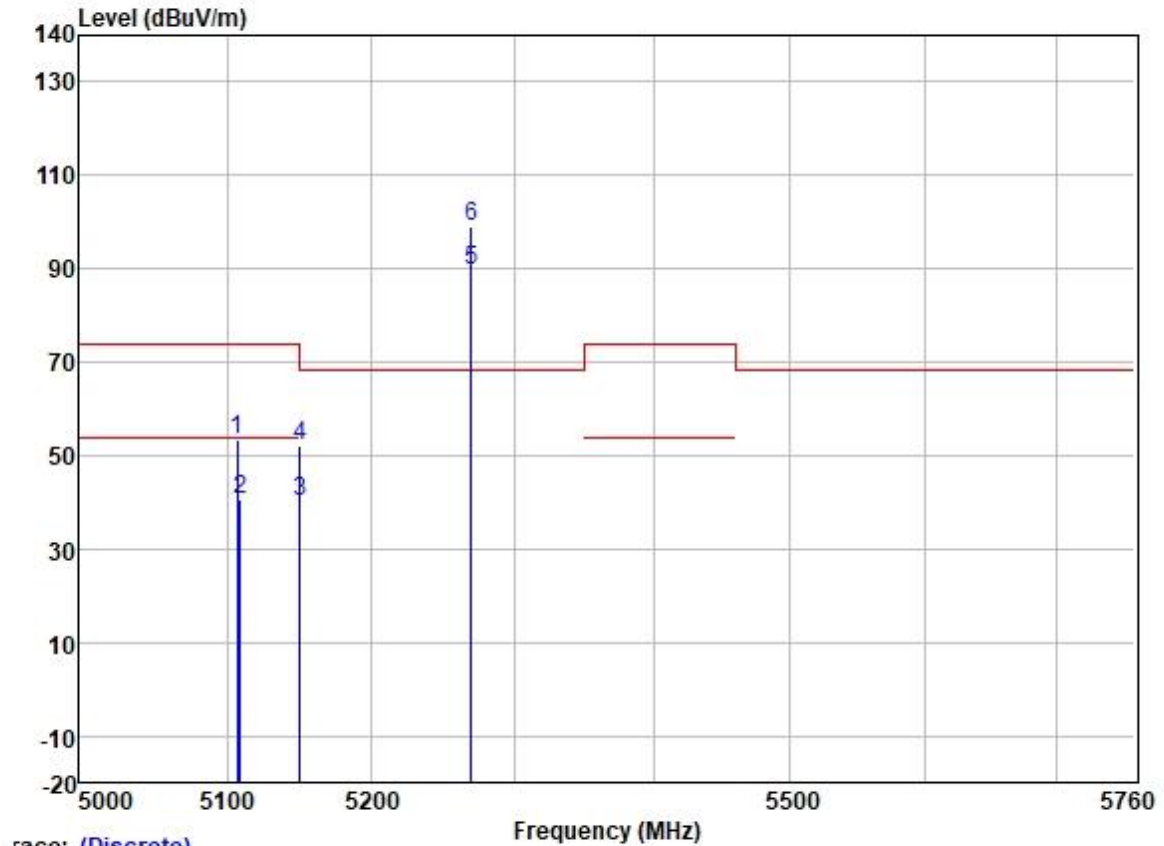
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	5115.521	39.86	31.72	5.64	36.86	40.36	54.00	-13.64	HORIZONTAL Average
2	5115.915	52.83	31.72	5.64	36.86	53.33	74.00	-20.67	HORIZONTAL Peak
3	5149.980	39.59	31.72	5.62	36.86	40.07	54.00	-13.93	HORIZONTAL Average
4	5149.980	51.03	31.72	5.62	36.86	51.51	74.00	-22.49	HORIZONTAL Peak
5	5270.000	88.10	31.75	5.80	36.87	88.78	-----	-----	HORIZONTAL Average
6 *	5270.000	98.31	31.75	5.80	36.87	98.99	68.20	30.79	HORIZONTAL Peak

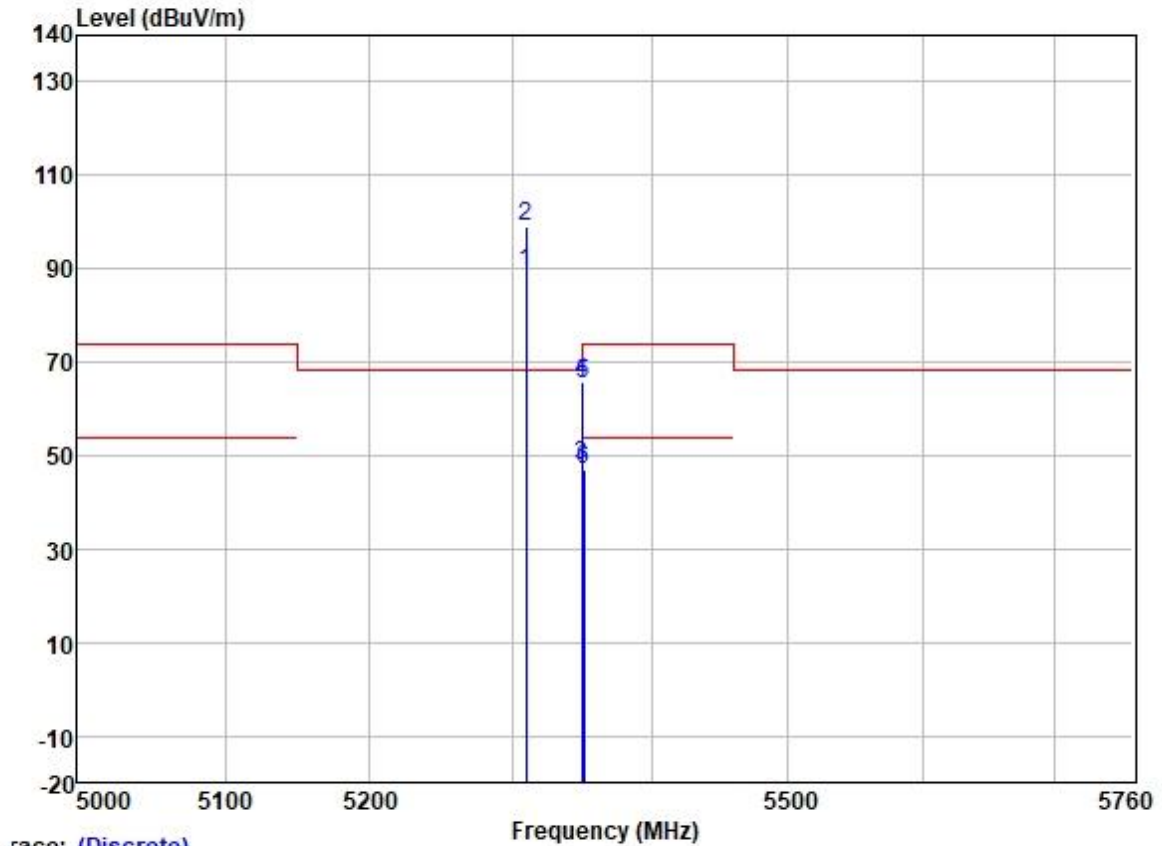
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	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	5106.871	52.82	31.72	5.65	36.86	53.33	74.00	-20.67	VERTICAL	Peak
2	5109.032	39.98	31.72	5.65	36.86	40.49	54.00	-13.51	VERTICAL	Average
3	5149.980	39.64	31.72	5.62	36.86	40.12	54.00	-13.88	VERTICAL	Average
4	5149.980	51.70	31.72	5.62	36.86	52.18	74.00	-21.82	VERTICAL	Peak
5	5270.000	88.98	31.75	5.80	36.87	89.66	-----	-----	VERTICAL	Average
6 *	5270.000	98.26	31.75	5.80	36.87	98.94	68.20	30.74	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

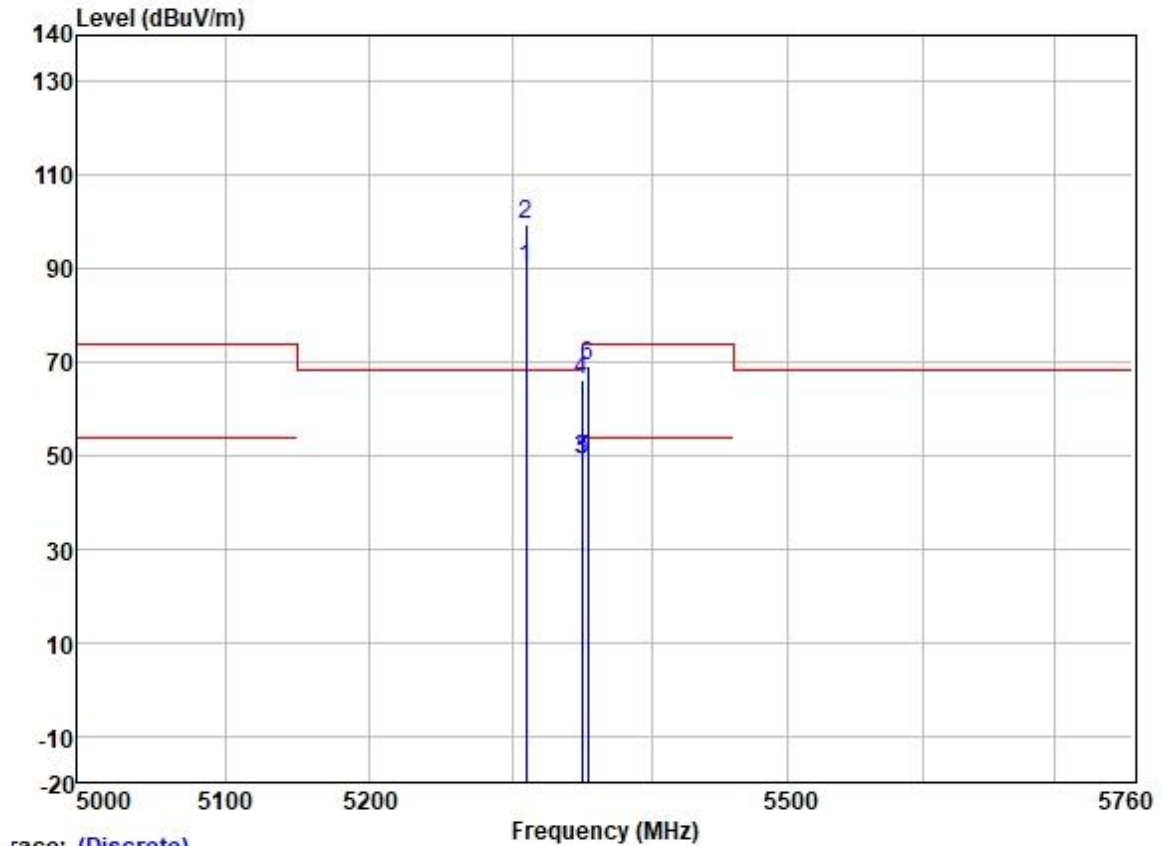


race: (Discrete)

	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	5310.000	88.09	31.77	6.08	36.87	89.07	-----	-----	HORIZONTAL	Average
2 *	5310.000	98.08	31.77	6.08	36.87	99.06	68.20	30.86	HORIZONTAL	Peak
3	5350.020	46.76	31.77	6.05	36.88	47.70	54.00	-6.30	HORIZONTAL	Average
4	5350.020	64.87	31.77	6.05	36.88	65.81	74.00	-8.19	HORIZONTAL	Peak
5	5350.474	64.57	31.77	6.05	36.88	65.51	74.00	-8.49	HORIZONTAL	Peak
6	5350.834	46.19	31.77	6.05	36.88	47.13	54.00	-6.87	HORIZONTAL	Average



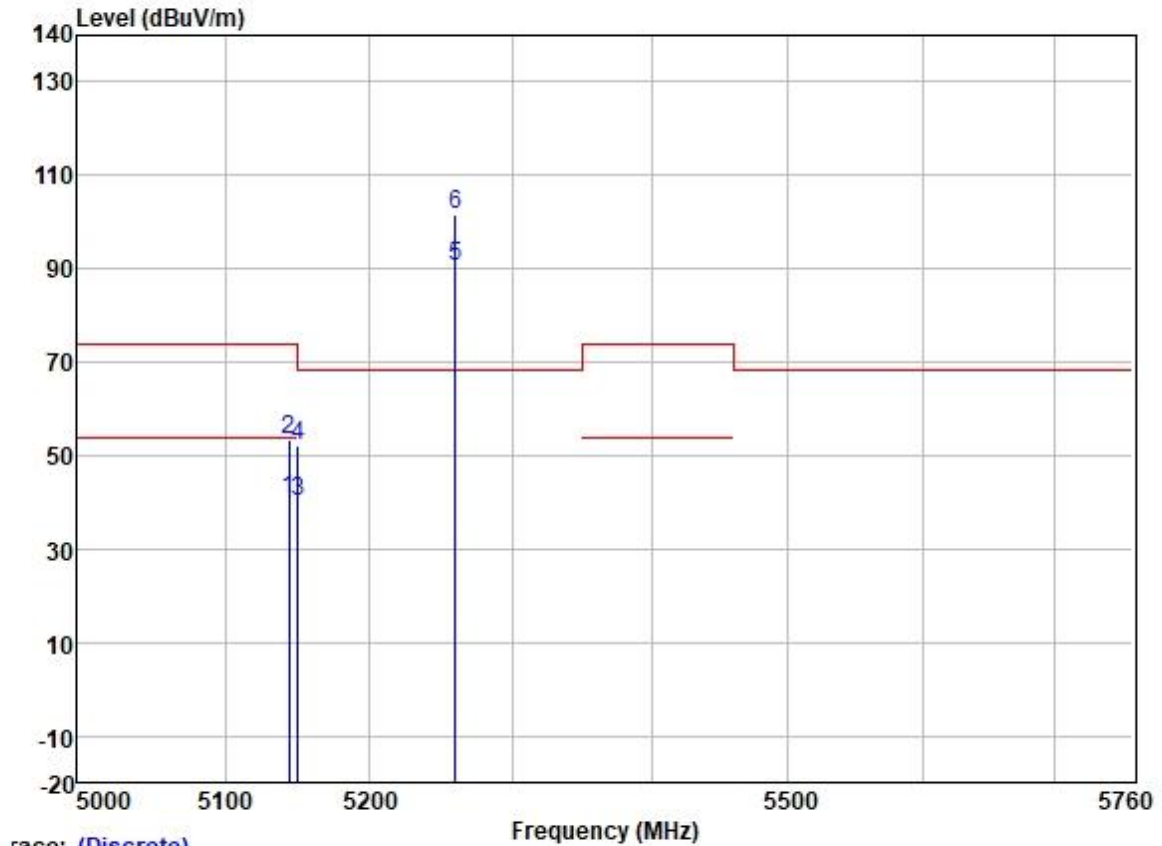
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	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	5310.000	89.26	31.77	6.08	36.87	90.24	-----	-----	VERTICAL	Average
2 *	5310.000	98.38	31.77	6.08	36.87	99.36	68.20	31.16	VERTICAL	Peak
3	5350.020	48.20	31.77	6.05	36.88	49.14	54.00	-4.86	VERTICAL	Average
4	5350.020	65.19	31.77	6.05	36.88	66.13	74.00	-7.87	VERTICAL	Peak
5	5350.474	48.19	31.77	6.05	36.88	49.13	54.00	-4.87	VERTICAL	Average
6	5353.841	68.10	31.77	6.05	36.88	69.04	74.00	-4.96	VERTICAL	Peak



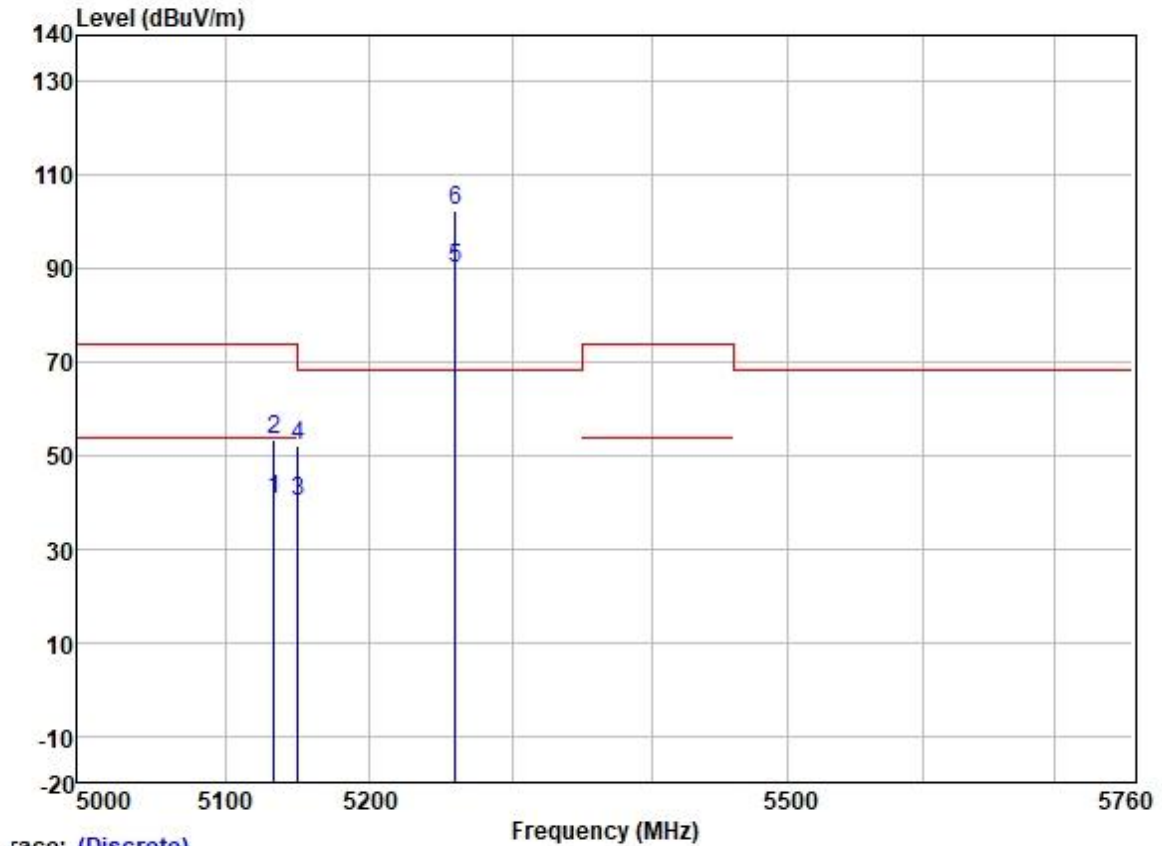
Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



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	5143.881	39.93	31.72	5.62	36.86	40.41	54.00	-13.59	HORIZONTAL Average
2	5143.881	52.72	31.72	5.62	36.86	53.20	74.00	-20.80	HORIZONTAL Peak
3	5149.980	39.73	31.72	5.62	36.86	40.21	54.00	-13.79	HORIZONTAL Average
4	5149.980	51.67	31.72	5.62	36.86	52.15	74.00	-21.85	HORIZONTAL Peak
5	5260.000	89.72	31.75	5.77	36.87	90.37	-----	-----	HORIZONTAL Average
6 *	5260.000	100.76	31.75	5.77	36.87	101.41	68.20	33.21	HORIZONTAL Peak

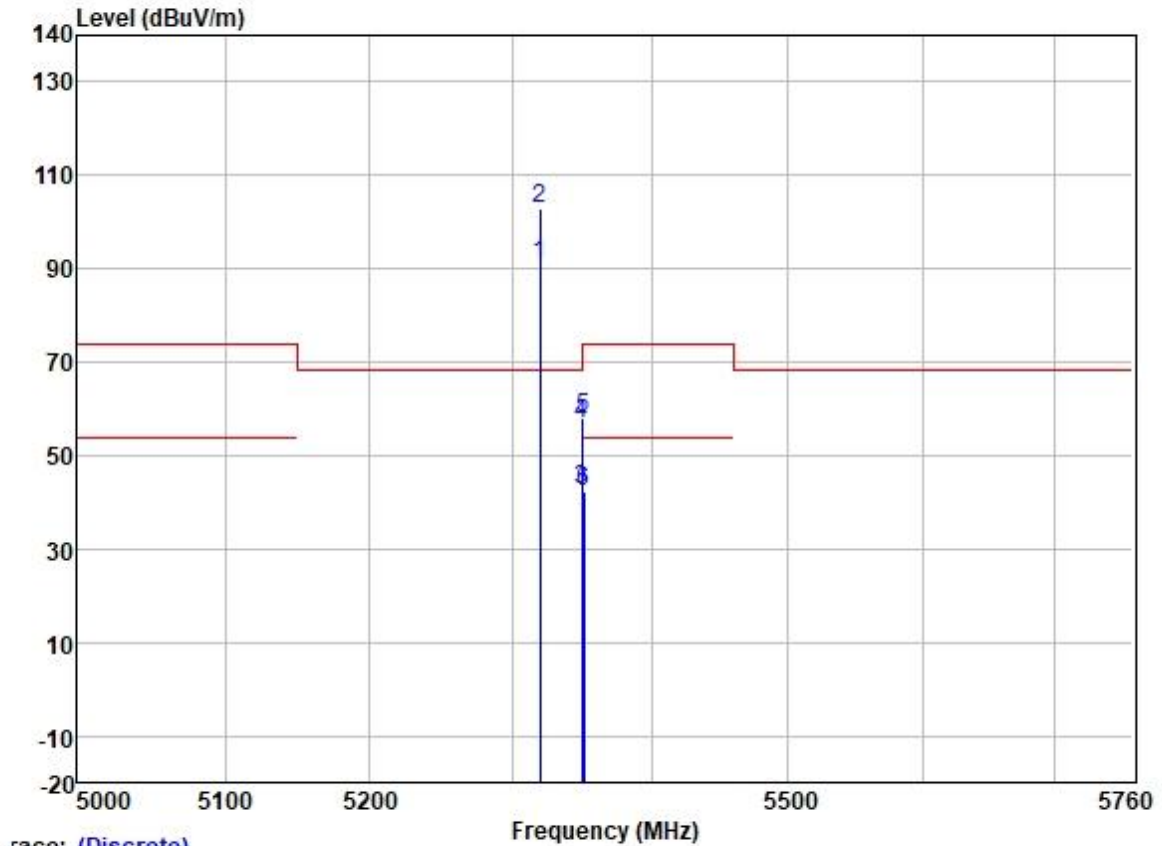
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5133.721	39.94	31.72	5.63	36.86	40.43	54.00	-13.57	VERTICAL
2	5133.721	52.69	31.72	5.63	36.86	53.18	74.00	-20.82	VERTICAL
3	5149.980	39.75	31.72	5.62	36.86	40.23	54.00	-13.77	VERTICAL
4	5149.980	51.43	31.72	5.62	36.86	51.91	74.00	-22.09	VERTICAL
5	5260.000	89.62	31.75	5.77	36.87	90.27	-----	-----	VERTICAL
6 *	5260.000	101.74	31.75	5.77	36.87	102.39	68.20	34.19	VERTICAL

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

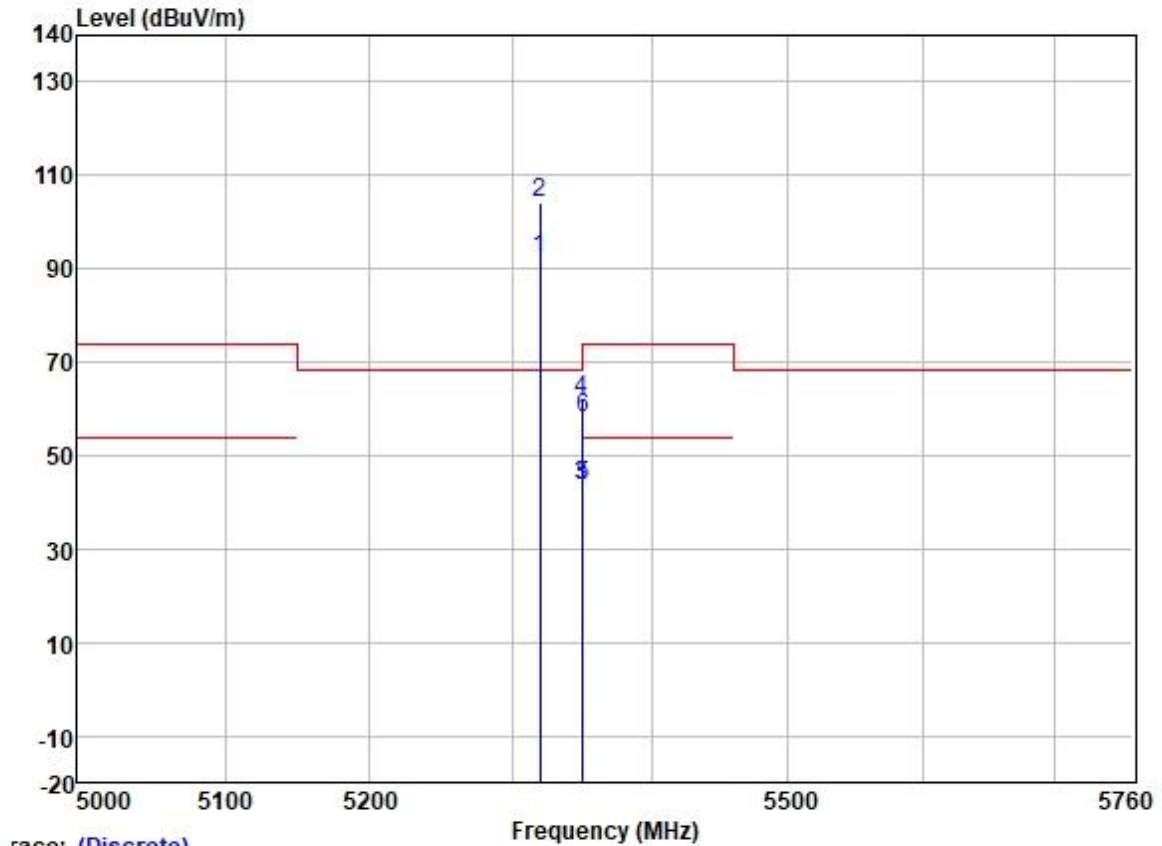


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	89.98	31.77	6.08	36.88	90.95	-----	-----	HORIZONTAL	Average
2 *	5320.000	101.77	31.77	6.08	36.88	102.74	68.20	34.54	HORIZONTAL	Peak
3	5350.020	41.68	31.77	6.05	36.88	42.62	54.00	-11.38	HORIZONTAL	Average
4	5350.020	55.76	31.77	6.05	36.88	56.70	74.00	-17.30	HORIZONTAL	Peak
5	5350.667	57.24	31.77	6.05	36.88	58.18	74.00	-15.82	HORIZONTAL	Peak
6	5350.966	41.30	31.77	6.05	36.88	42.24	54.00	-11.76	HORIZONTAL	Average



Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; 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	5320.000	91.19	31.77	6.08	36.88	92.16	-----	-----	VERTICAL	Average
2 *	5320.000	103.11	31.77	6.08	36.88	104.08	68.20	35.88	VERTICAL	Peak
3	5350.020	42.52	31.77	6.05	36.88	43.46	54.00	-10.54	VERTICAL	Average
4	5350.020	61.18	31.77	6.05	36.88	62.12	74.00	-11.88	VERTICAL	Peak
5	5350.767	42.56	31.77	6.05	36.88	43.50	54.00	-10.50	VERTICAL	Average
6	5350.767	56.93	31.77	6.05	36.88	57.87	74.00	-16.13	VERTICAL	Peak

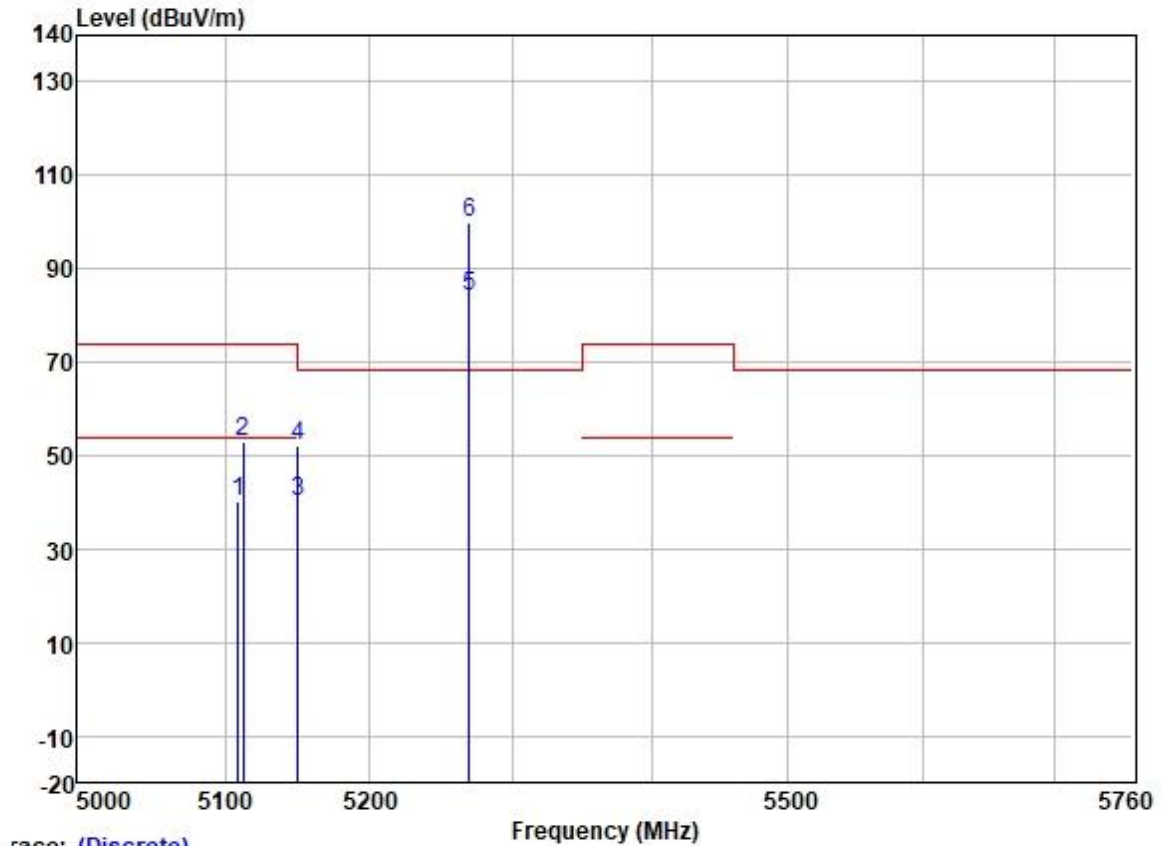


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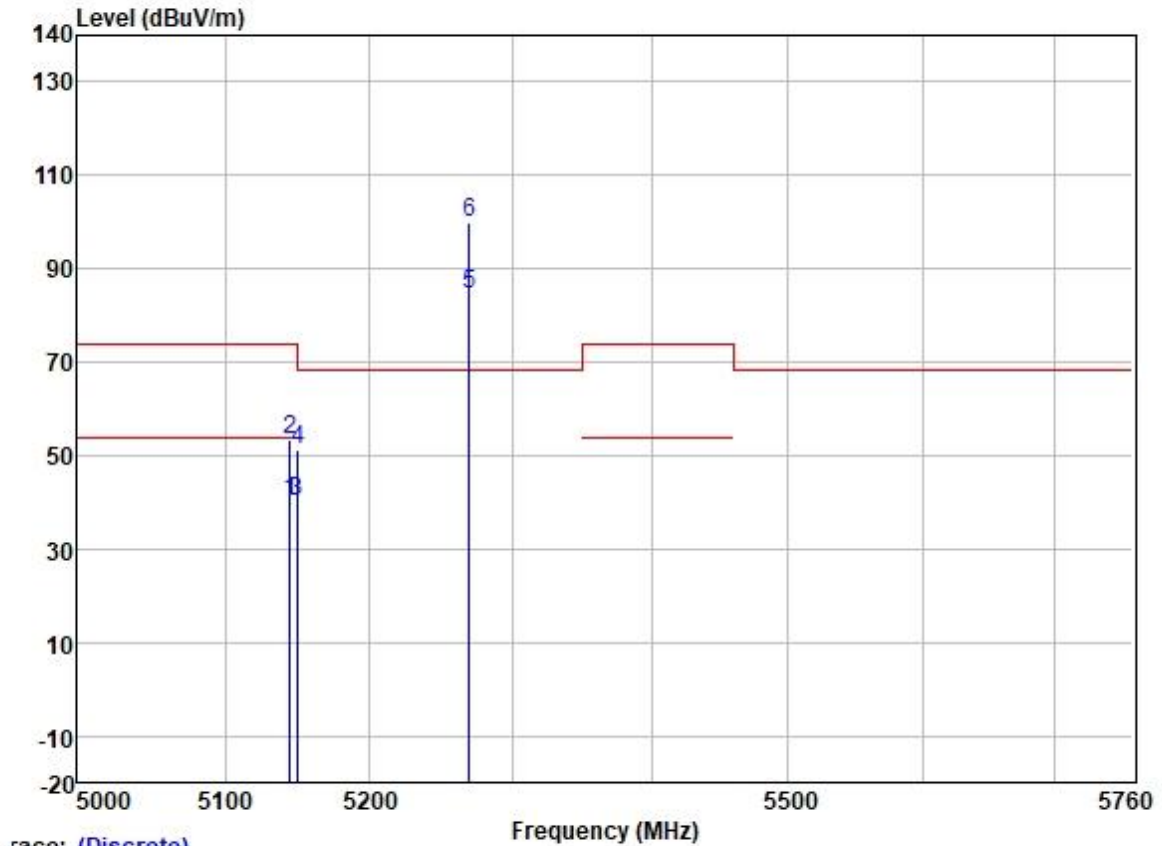
Test Mode: 05; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



Trace: (Discrete)

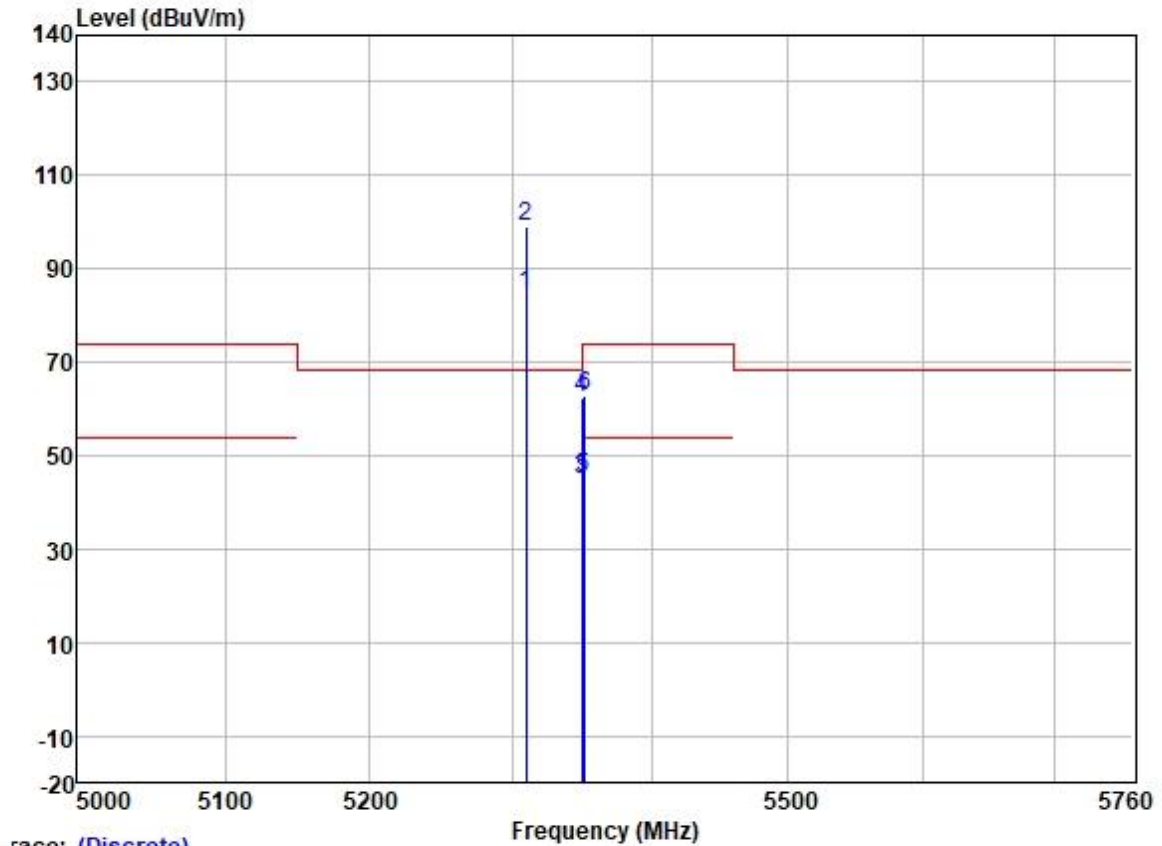
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5108.835	39.85	31.72	5.65	36.86	40.36	54.00	-13.64	HORIZONTAL Average
2	5112.178	52.63	31.72	5.64	36.86	53.13	74.00	-20.87	HORIZONTAL Peak
3	5149.980	39.51	31.72	5.62	36.86	39.99	54.00	-14.01	HORIZONTAL Average
4	5149.980	51.56	31.72	5.62	36.86	52.04	74.00	-21.96	HORIZONTAL Peak
5	5270.000	83.45	31.75	5.80	36.87	84.13	-----	-----	HORIZONTAL Average
6 *	5270.000	99.11	31.75	5.80	36.87	99.79	68.20	31.59	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; 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	5144.728	39.73	31.72	5.62	36.86	40.21	54.00	-13.79	VERTICAL
2	5144.728	52.95	31.72	5.62	36.86	53.43	74.00	-20.57	VERTICAL
3	5149.479	39.53	31.72	5.62	36.86	40.01	54.00	-13.99	VERTICAL
4	5149.980	50.85	31.72	5.62	36.86	51.33	74.00	-22.67	VERTICAL
5	5270.000	84.04	31.75	5.80	36.87	84.72	-----	-----	VERTICAL
6 *	5270.000	99.02	31.75	5.80	36.87	99.70	68.20	31.50	VERTICAL

Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5310.000	83.58	31.77	6.08	36.87	84.56	-----	-----	HORIZONTAL	Average
2 *	5310.000	98.25	31.77	6.08	36.87	99.23	68.20	31.03	HORIZONTAL	Peak
3	5350.020	43.99	31.77	6.05	36.88	44.93	54.00	-9.07	HORIZONTAL	Average
4	5350.020	61.40	31.77	6.05	36.88	62.34	74.00	-11.66	HORIZONTAL	Peak
5	5350.834	44.27	31.77	6.05	36.88	45.21	54.00	-8.79	HORIZONTAL	Average
6	5351.796	61.83	31.77	6.05	36.88	62.77	74.00	-11.23	HORIZONTAL	Peak

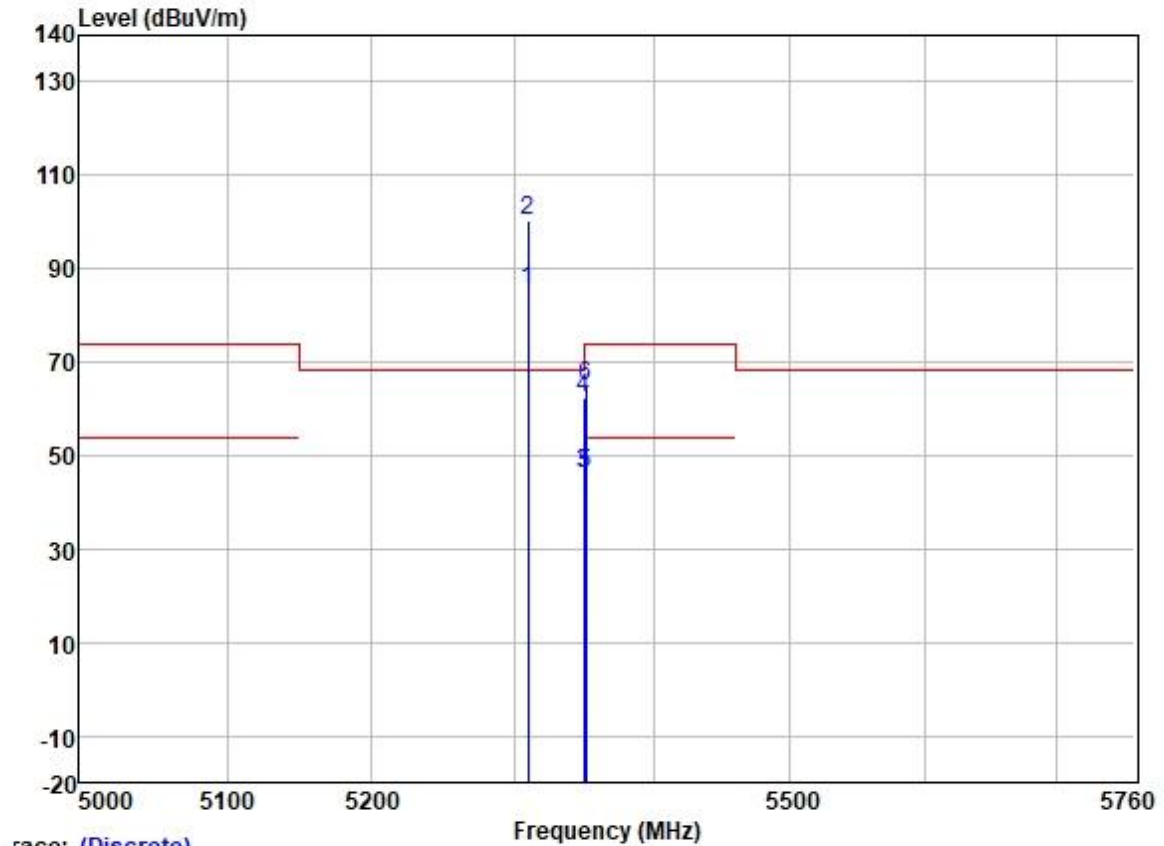


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

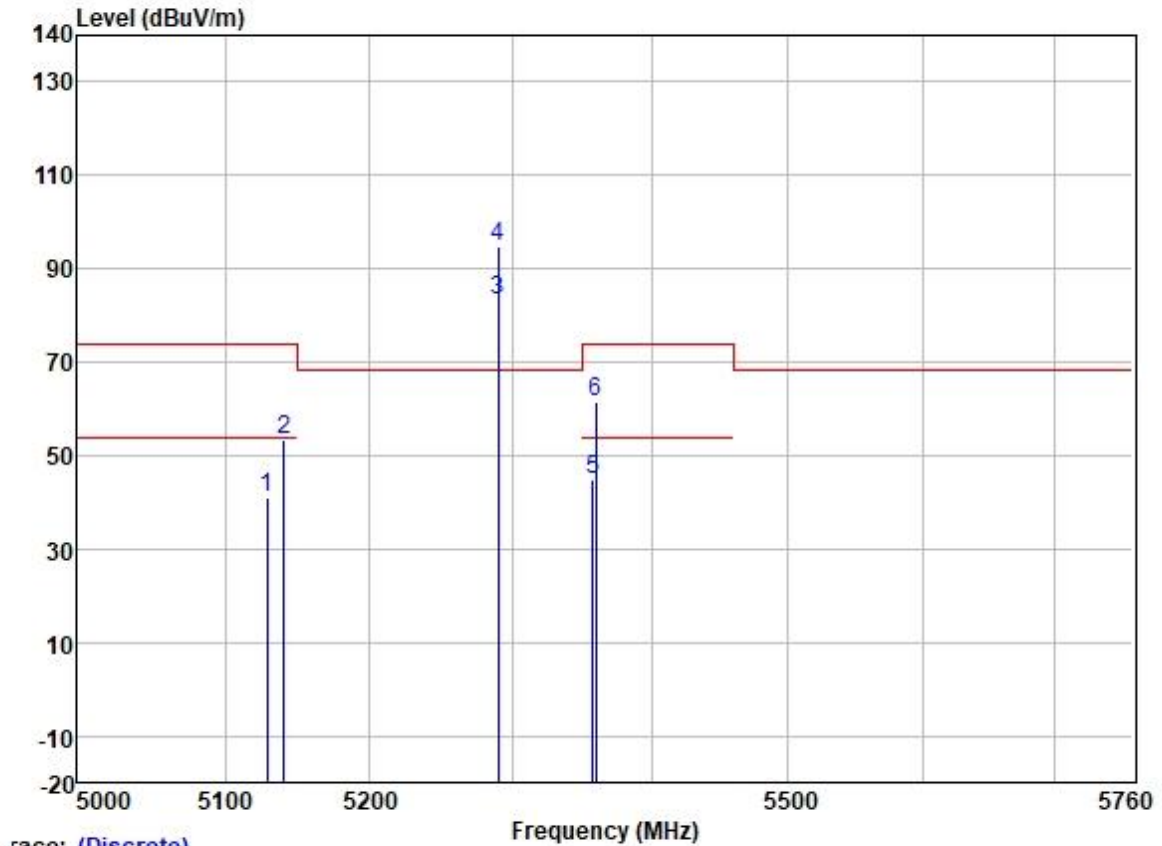


Trace: (Discrete)

	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	5310.000	84.47	31.77	6.08	36.87	85.45	-----	-----	VERTICAL Average
2 *	5310.000	99.55	31.77	6.08	36.87	100.53	68.20	32.33	VERTICAL Peak
3	5350.020	45.34	31.77	6.05	36.88	46.28	54.00	-7.72	VERTICAL Average
4	5350.020	61.33	31.77	6.05	36.88	62.27	74.00	-11.73	VERTICAL Peak
5	5350.594	45.33	31.77	6.05	36.88	46.27	54.00	-7.73	VERTICAL Average
6	5351.195	64.01	31.77	6.05	36.88	64.95	74.00	-9.05	VERTICAL Peak



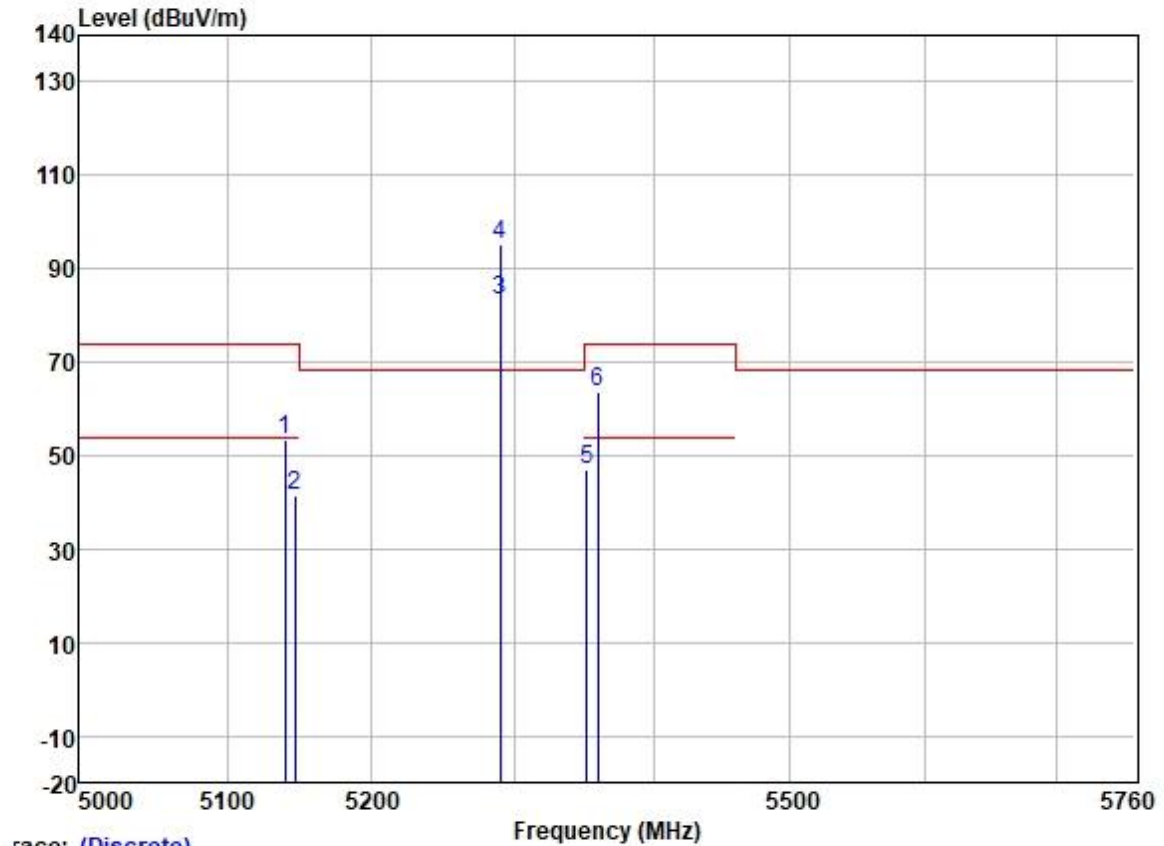
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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	5128.648	40.66	31.72	5.63	36.86	41.15	54.00	-12.85	HORIZONTAL Average
2	5140.093	52.79	31.72	5.63	36.86	53.28	74.00	-20.72	HORIZONTAL Peak
3	5290.000	82.29	31.76	6.00	36.87	83.18	-----	-----	HORIZONTAL Average
4 *	5290.000	93.89	31.76	6.00	36.87	94.78	68.20	26.58	HORIZONTAL Peak
5	5357.267	43.84	31.78	6.03	36.88	44.77	54.00	-9.23	HORIZONTAL Average
6	5360.023	60.49	31.78	6.03	36.88	61.42	74.00	-12.58	HORIZONTAL Peak

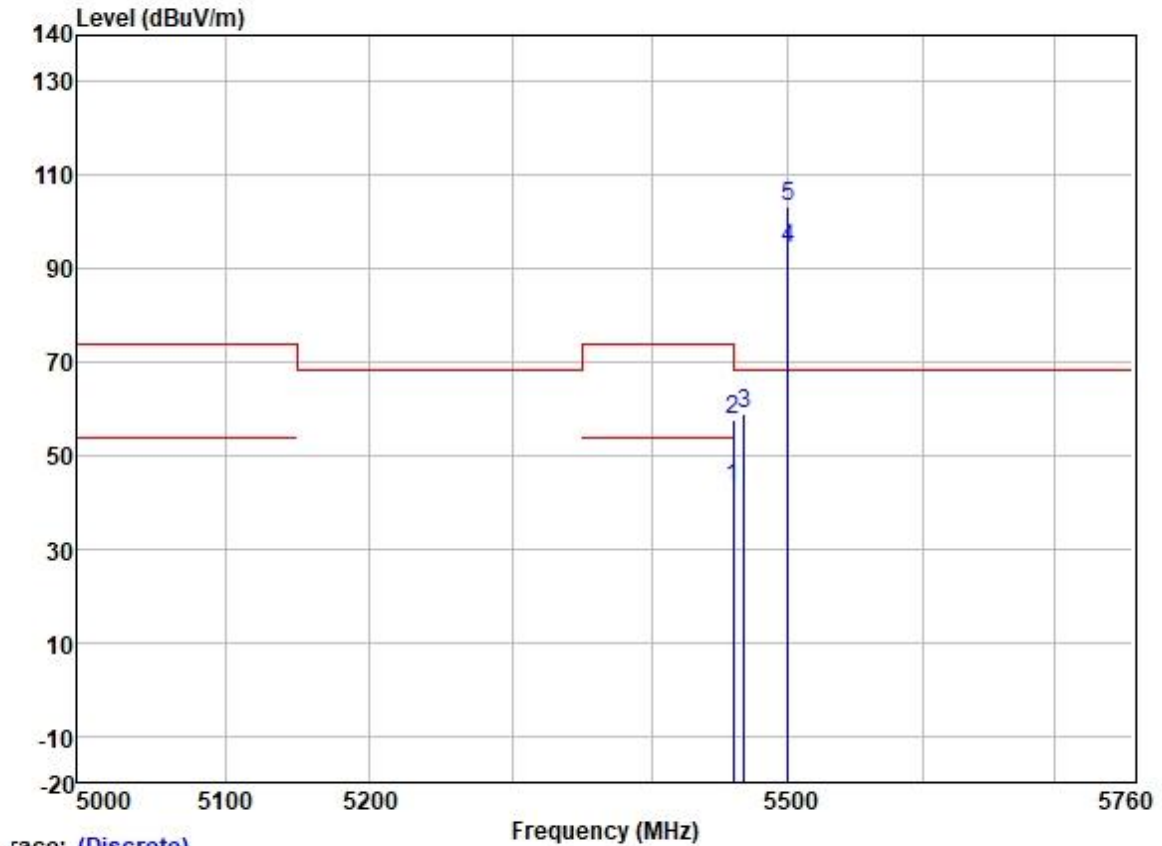
Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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	5139.800	52.90	31.72	5.63	36.86	53.39	74.00	-20.61	VERTICAL
2	5146.267	40.82	31.72	5.62	36.86	41.30	54.00	-12.70	VERTICAL
3	5290.000	82.31	31.76	6.00	36.87	83.20	-----	-----	VERTICAL
4 *	5290.000	94.19	31.76	6.00	36.87	95.08	68.20	26.88	VERTICAL
5	5352.064	45.94	31.77	6.05	36.88	46.88	54.00	-7.12	VERTICAL
6	5359.717	62.56	31.78	6.03	36.88	63.49	74.00	-10.51	VERTICAL

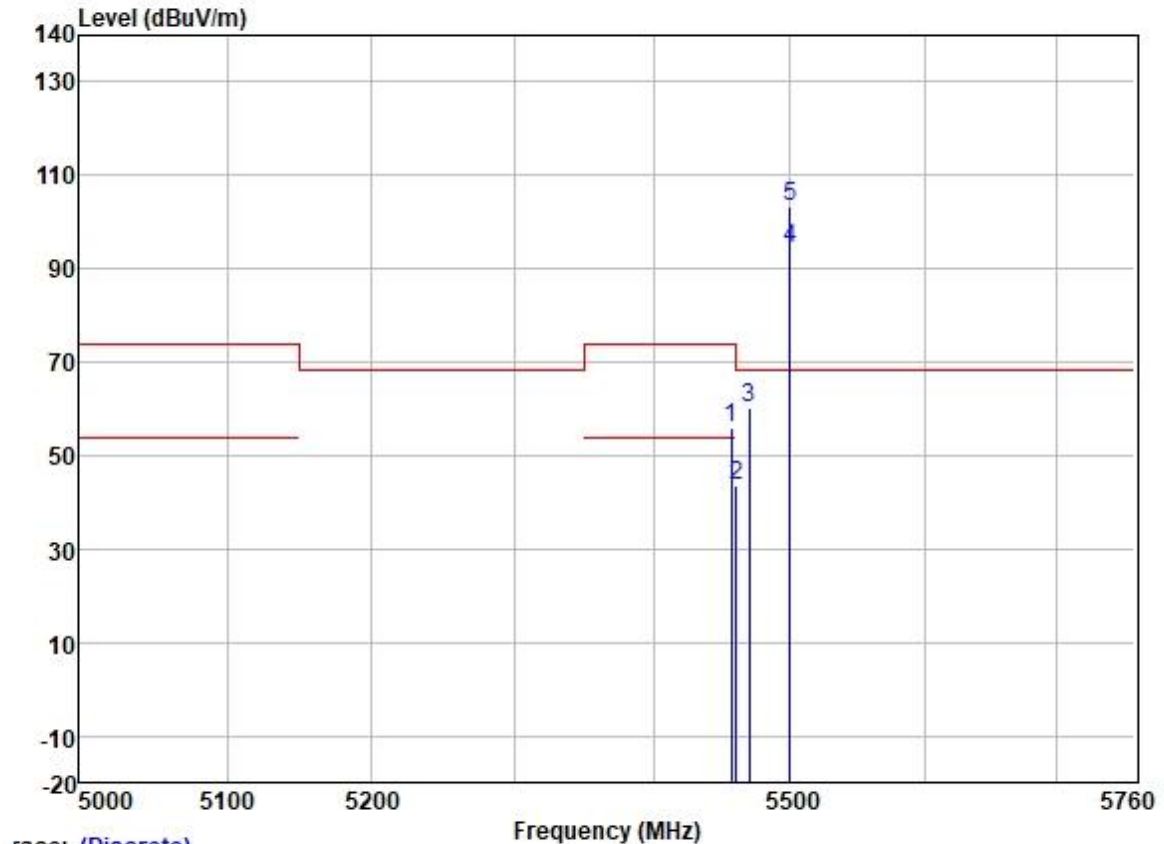
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	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	5459.311	42.02	31.79	6.26	36.88	43.19	54.00	-10.81	HORIZONTAL Average
2	5459.430	56.54	31.79	6.26	36.88	57.71	74.00	-16.29	HORIZONTAL Peak
3	5467.235	57.84	31.80	6.31	36.88	59.07	68.20	-9.13	HORIZONTAL Peak
4	5500.000	92.85	31.80	6.40	36.88	94.17	-----	-----	HORIZONTAL Average
5 *	5500.000	102.14	31.80	6.40	36.88	103.46	68.20	35.26	HORIZONTAL Peak

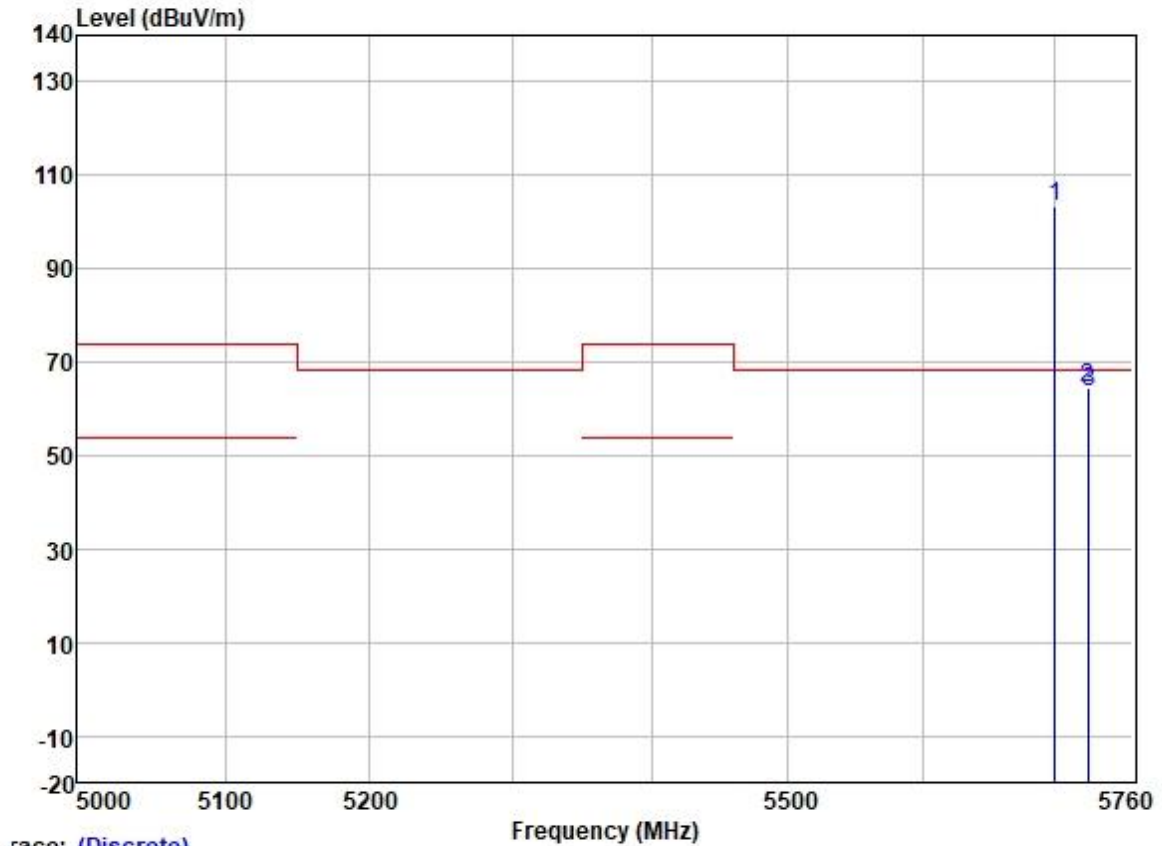


Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	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	5456.791	54.58	31.79	6.26	36.88	55.75	74.00	-18.25	VERTICAL Peak
2	5459.910	42.54	31.79	6.26	36.88	43.71	54.00	-10.29	VERTICAL Average
3	5469.519	58.87	31.80	6.31	36.88	60.10	68.20	-8.10	VERTICAL Peak
4	5500.000	93.13	31.80	6.40	36.88	94.45	-----	-----	VERTICAL Average
5 *	5500.000	102.12	31.80	6.40	36.88	103.44	68.20	35.24	VERTICAL Peak

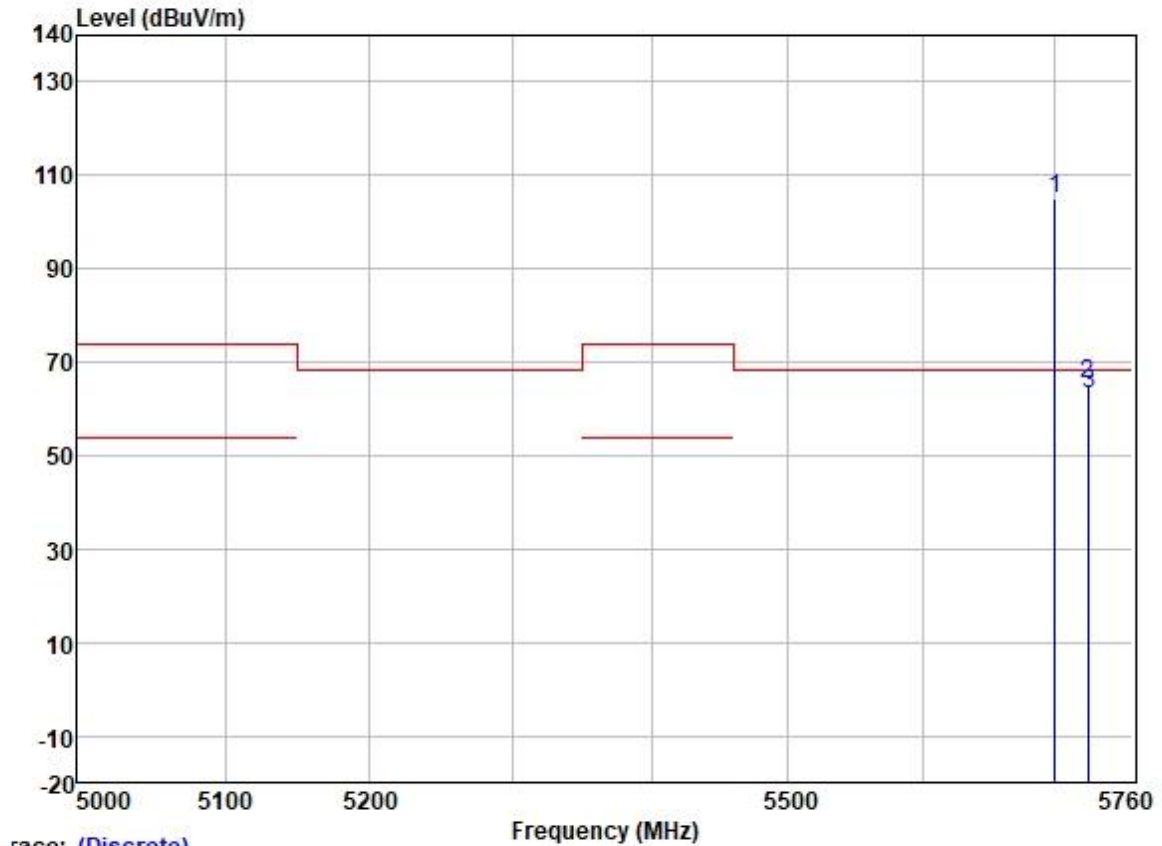
Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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 *	5700.000	101.90	32.01	6.40	36.89	103.42	68.20	35.22	HORIZONTAL Peak
2	5725.000	62.87	32.07	6.25	36.89	64.30	68.20	-3.90	HORIZONTAL Peak
3	5725.684	62.02	32.07	6.25	36.89	63.45	68.20	-4.75	HORIZONTAL Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

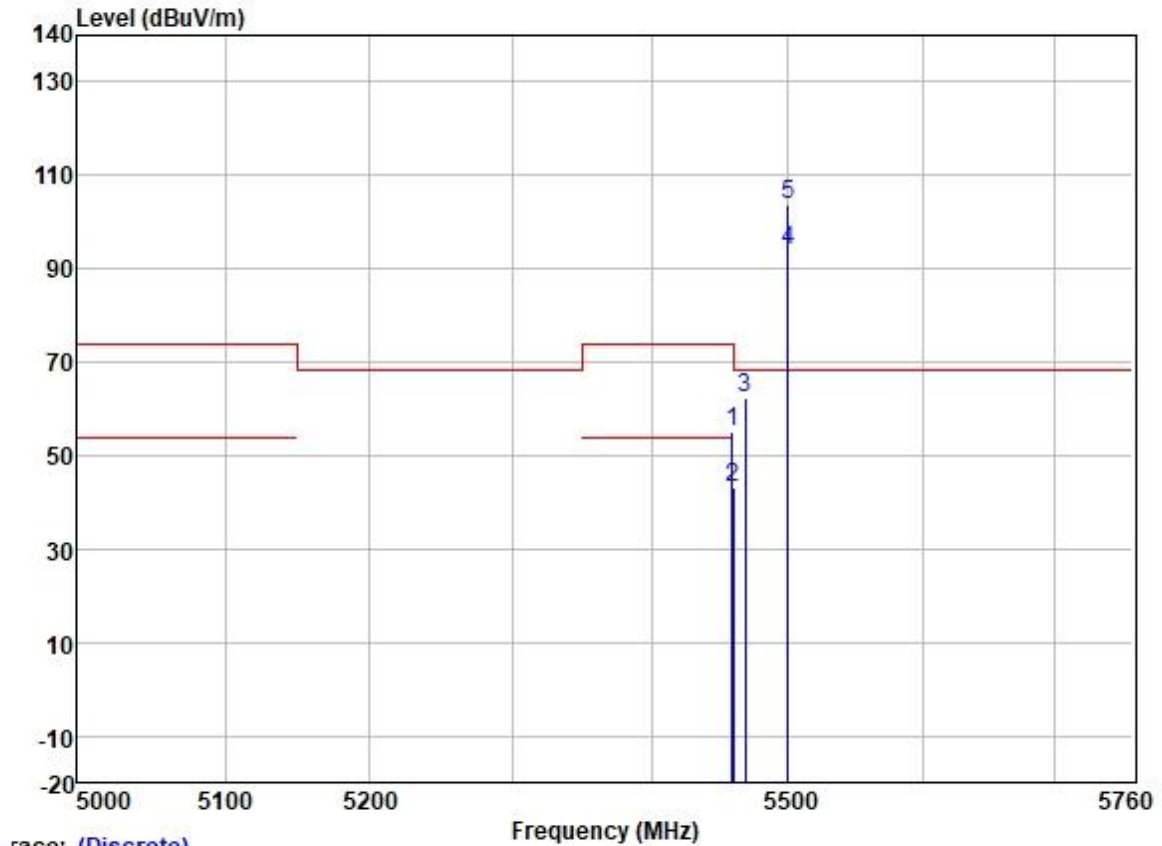


race: (Discrete)

	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 *	5700.000	103.65	32.01	6.40	36.89	105.17	68.20	36.97	VERTICAL	Peak
2	5725.000	63.82	32.07	6.25	36.89	65.25	68.20	-2.95	VERTICAL	Peak
3	5725.583	61.75	32.07	6.25	36.89	63.18	68.20	-5.02	VERTICAL	Peak

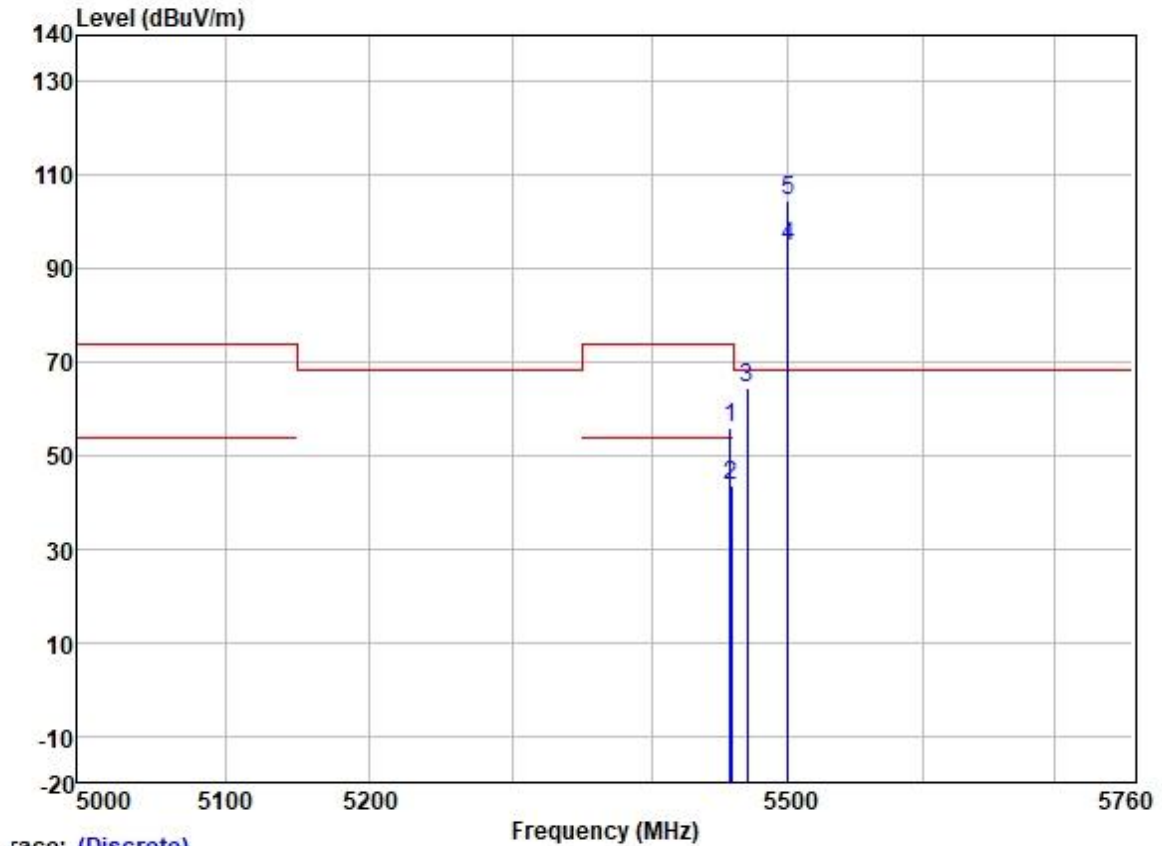


Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



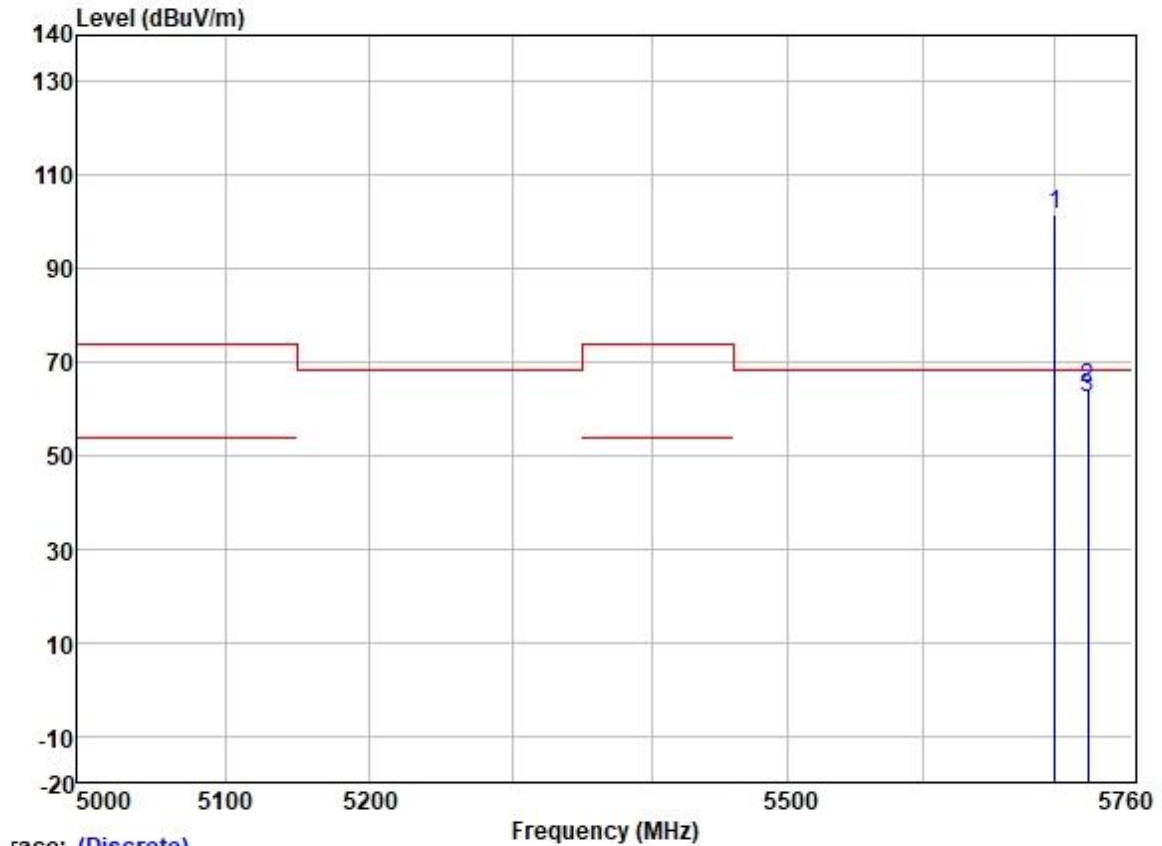
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.471	54.09	31.79	6.26	36.88	55.26	74.00	-18.74	HORIZONTAL	Peak
2	5459.550	41.82	31.79	6.26	36.88	42.99	54.00	-11.01	HORIZONTAL	Average
3	5467.957	61.24	31.80	6.31	36.88	62.47	68.20	-5.73	HORIZONTAL	Peak
4	5500.000	92.81	31.80	6.40	36.88	94.13	-----	-----	HORIZONTAL	Average
5 *	5500.000	102.27	31.80	6.40	36.88	103.59	68.20	35.39	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		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	5457.511	54.65	31.79	6.26	36.88	55.82	74.00	-18.18	VERTICAL	Peak
2	5457.750	42.52	31.79	6.26	36.88	43.69	54.00	-10.31	VERTICAL	Average
3	5469.519	63.25	31.80	6.31	36.88	64.48	68.20	-3.72	VERTICAL	Peak
4	5500.000	93.34	31.80	6.40	36.88	94.66	-----	-----	VERTICAL	Average
5 *	5500.000	103.21	31.80	6.40	36.88	104.53	68.20	36.33	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

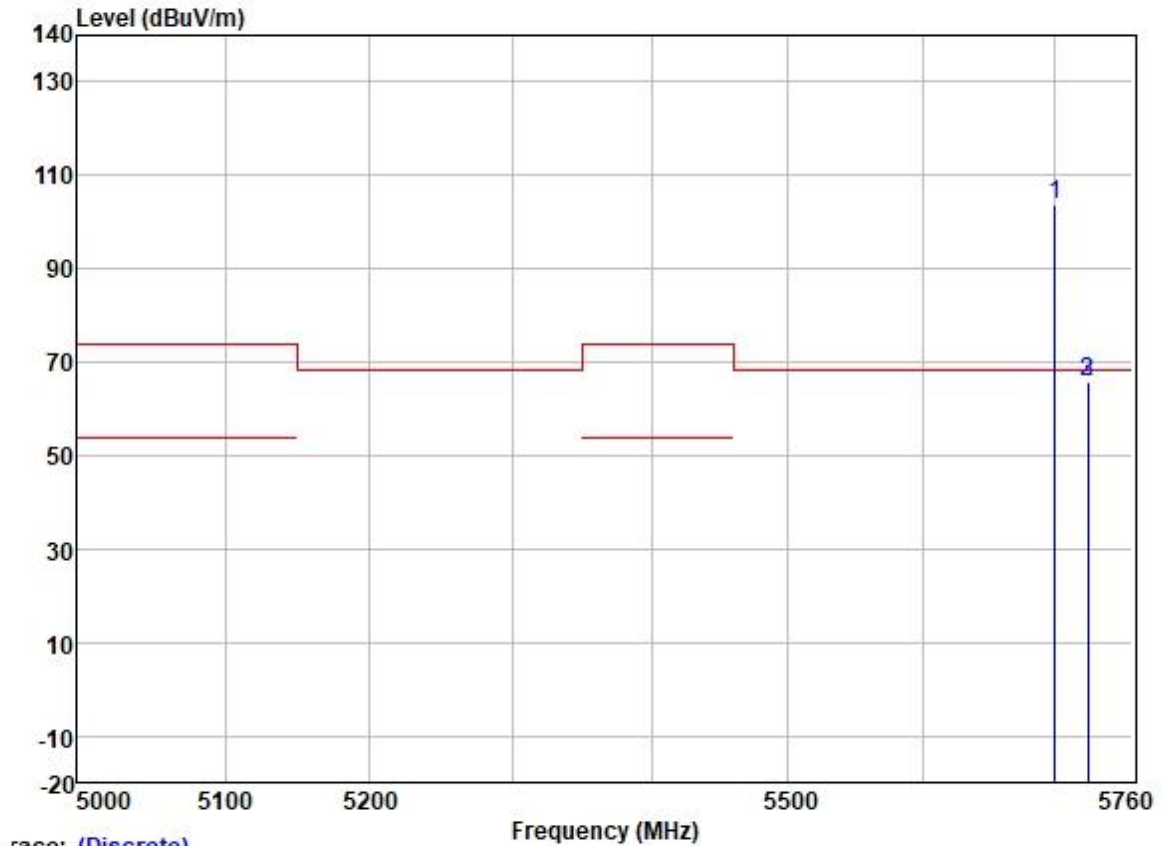


race: (Discrete)

		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	* 5700.000	99.89	32.01	6.40	36.89	101.41	68.20	33.21	HORIZONTAL	Peak
2	5725.000	62.92	32.07	6.25	36.89	64.35	68.20	-3.85	HORIZONTAL	Peak
3	5725.483	60.81	32.07	6.25	36.89	62.24	68.20	-5.96	HORIZONTAL	Peak



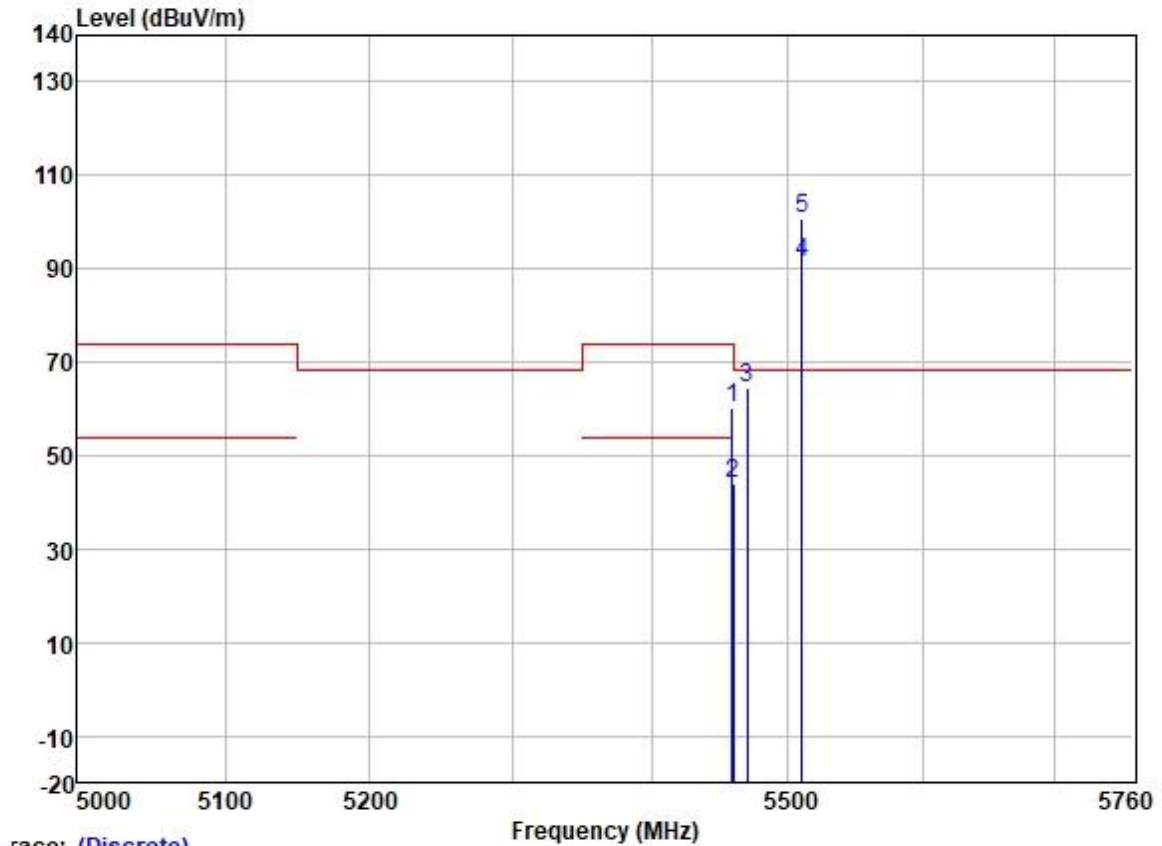
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

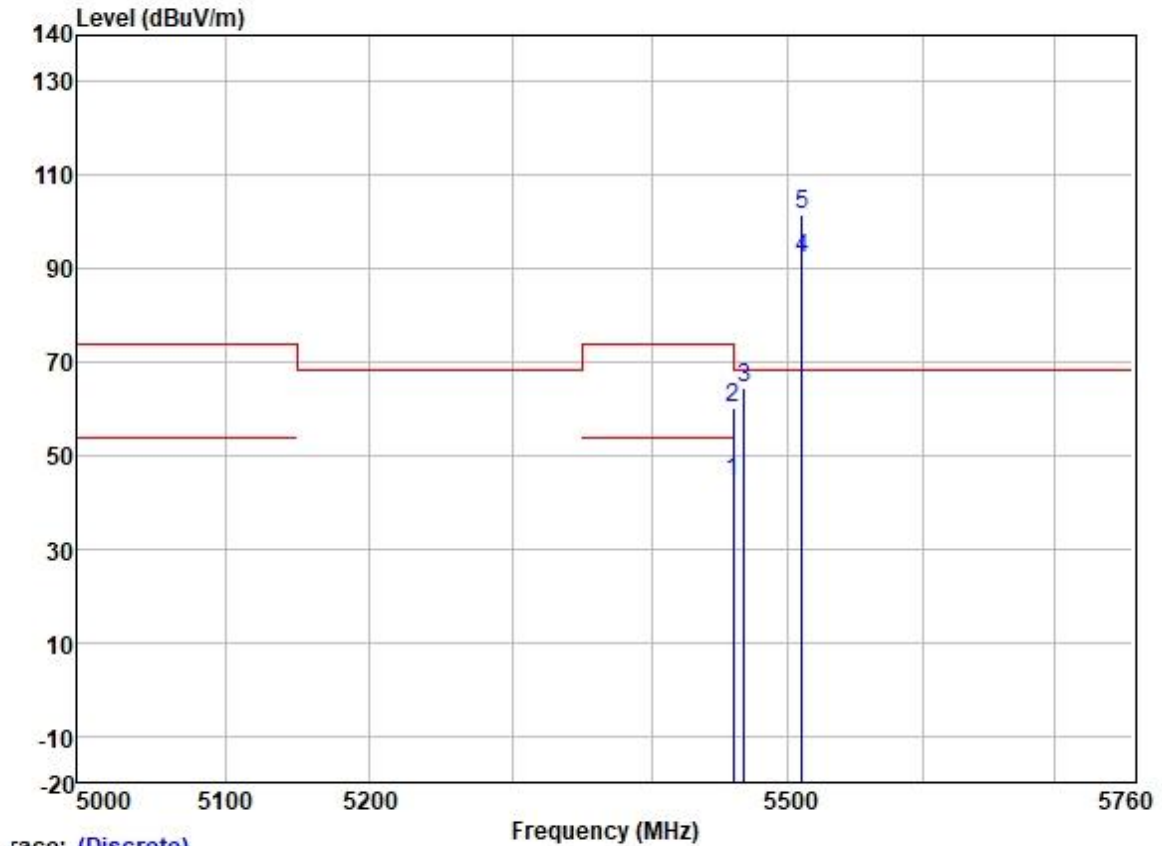
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5700.000	102.35	32.01	6.40	36.89	103.87	68.20	35.67	VERTICAL	Peak
2	5725.000	64.18	32.07	6.25	36.89	65.61	68.20	-2.59	VERTICAL	Peak
3	5725.483	64.29	32.07	6.25	36.89	65.72	68.20	-2.48	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		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	5458.923	58.92	31.79	6.26	36.88	60.09	74.00	-13.91	HORIZONTAL	Peak
2	5459.202	42.71	31.79	6.26	36.88	43.88	54.00	-10.12	HORIZONTAL	Average
3	5469.692	63.09	31.80	6.31	36.88	64.32	68.20	-3.88	HORIZONTAL	Peak
4	5510.000	89.90	31.80	6.40	36.88	91.22	-----	-----	HORIZONTAL	Average
5 *	5510.000	99.39	31.80	6.40	36.88	100.71	68.20	32.51	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

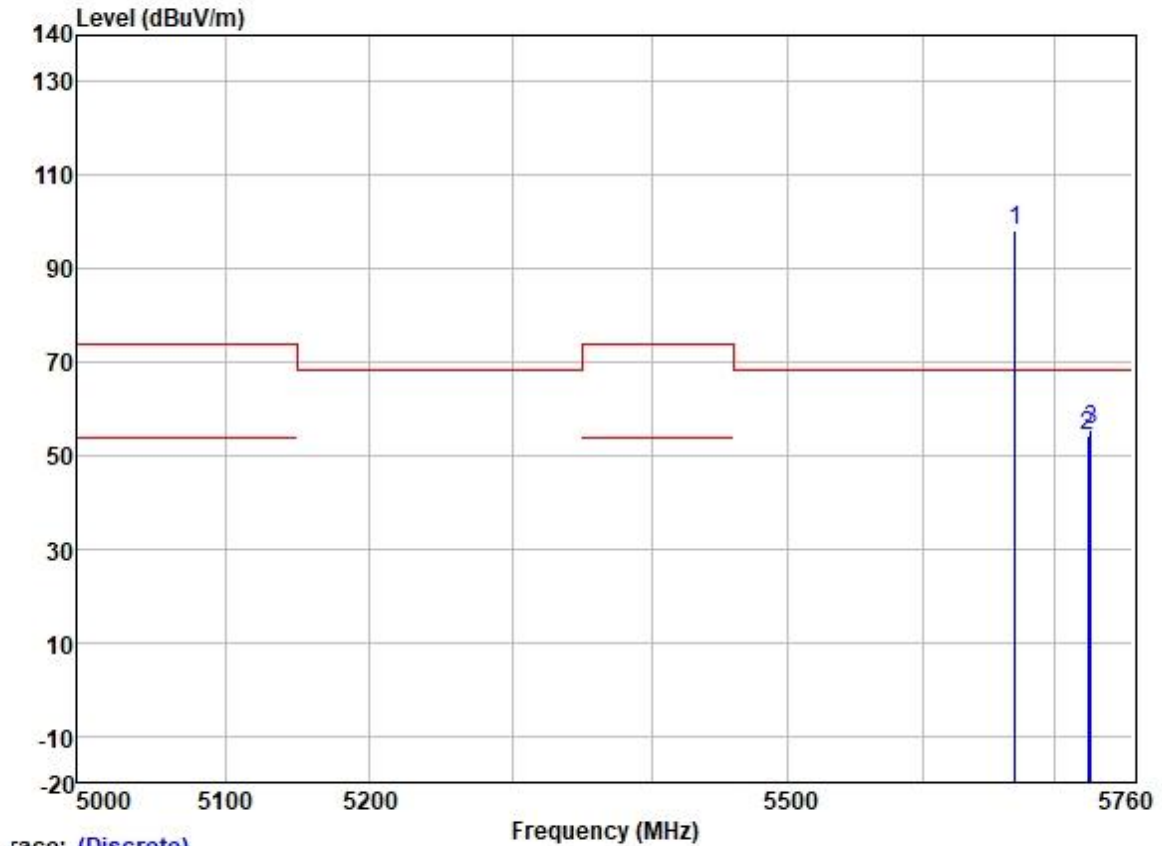


Trace: (Discrete)

	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	dBuV/m	dB	
1	5459.481	43.46	31.79	6.26	36.88	44.63	54.00	-9.37	VERTICAL Average
2	5459.622	58.92	31.79	6.26	36.88	60.09	74.00	-13.91	VERTICAL Peak
3	5467.592	63.41	31.80	6.31	36.88	64.64	68.20	-3.56	VERTICAL Peak
4	5510.000	90.70	31.80	6.40	36.88	92.02	-----	-----	VERTICAL Average
5 *	5510.000	100.08	31.80	6.40	36.88	101.40	68.20	33.20	VERTICAL Peak



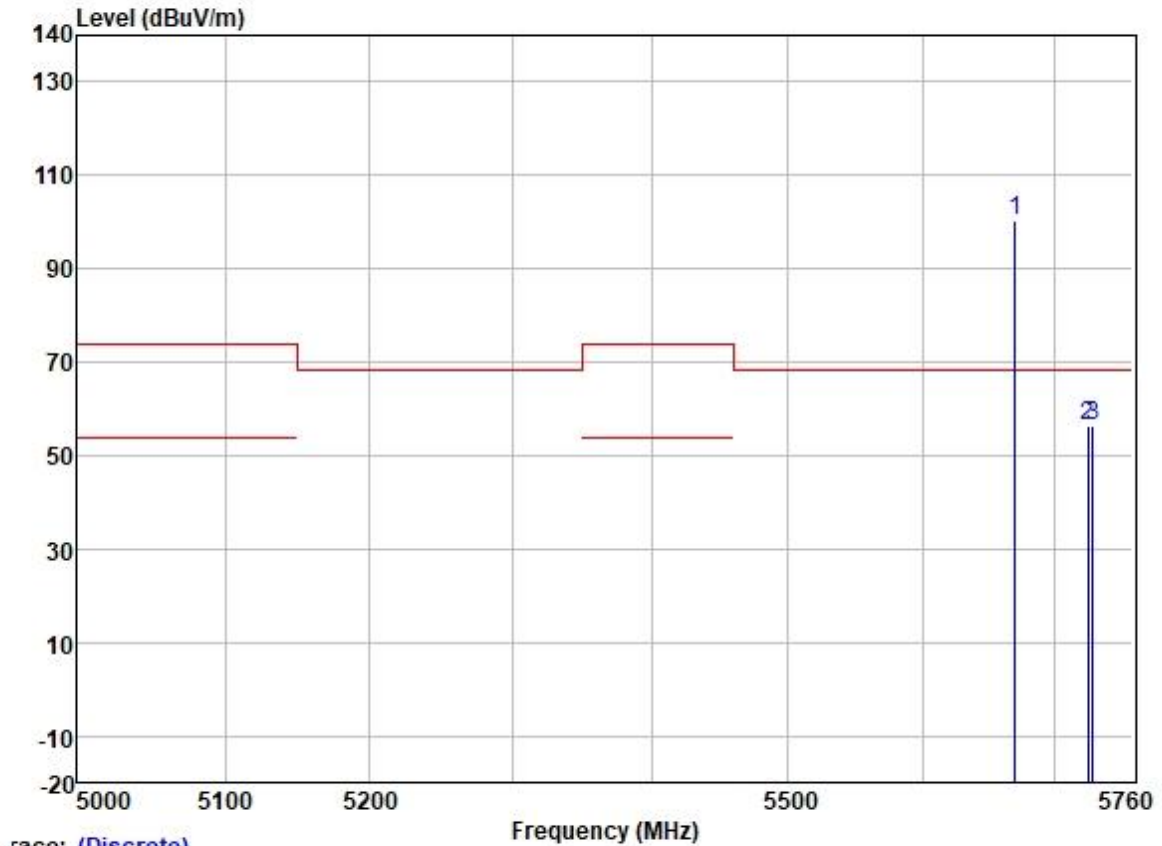
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

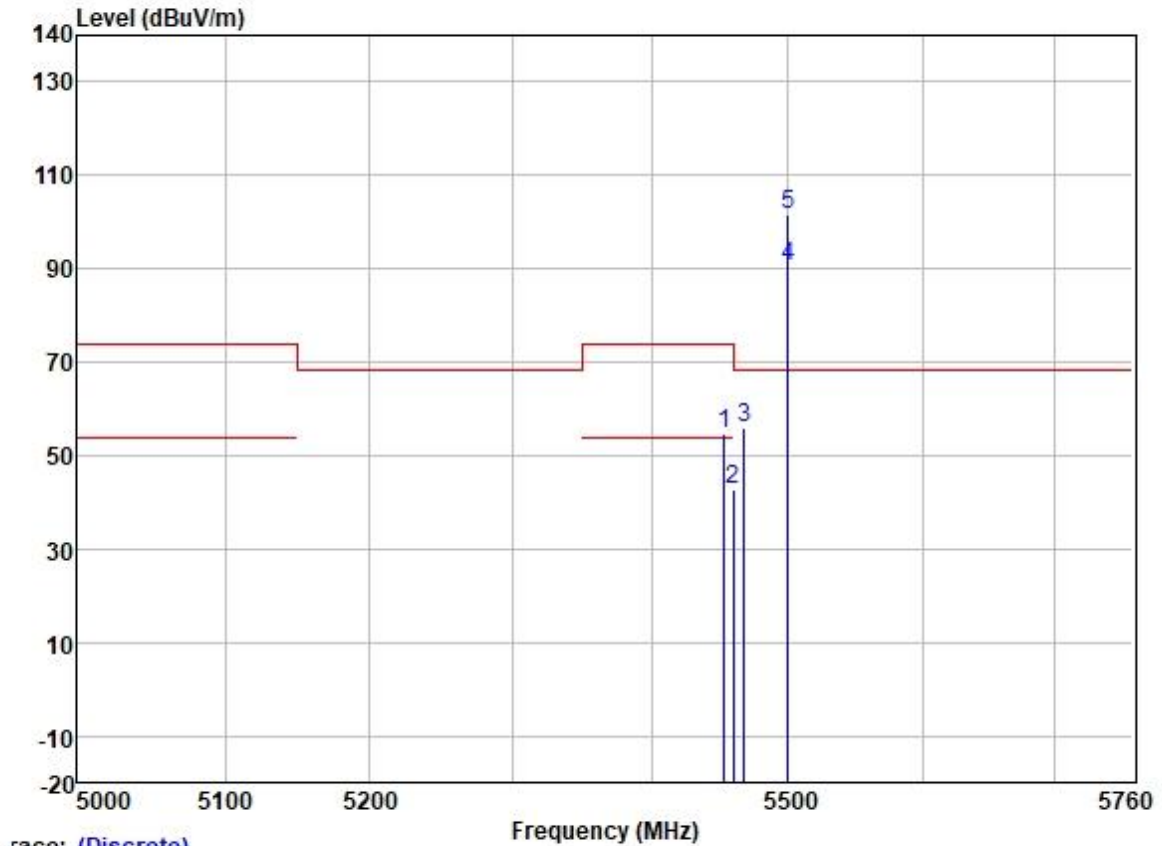
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	96.61	31.97	6.37	36.89	98.06	68.20	29.86	HORIZONTAL	Peak
2	5725.000	52.96	32.07	6.25	36.89	54.39	68.20	-13.81	HORIZONTAL	Peak
3	5727.097	54.08	32.07	6.25	36.89	55.51	68.20	-12.69	HORIZONTAL	Peak

Test Mode: 06; 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 *	5670.000	98.77	31.97	6.37	36.89	100.22	68.20	32.02	VERTICAL	Peak
2	5725.000	54.87	32.07	6.25	36.89	56.30	68.20	-11.90	VERTICAL	Peak
3	5729.063	54.86	32.07	6.25	36.89	56.29	68.20	-11.91	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

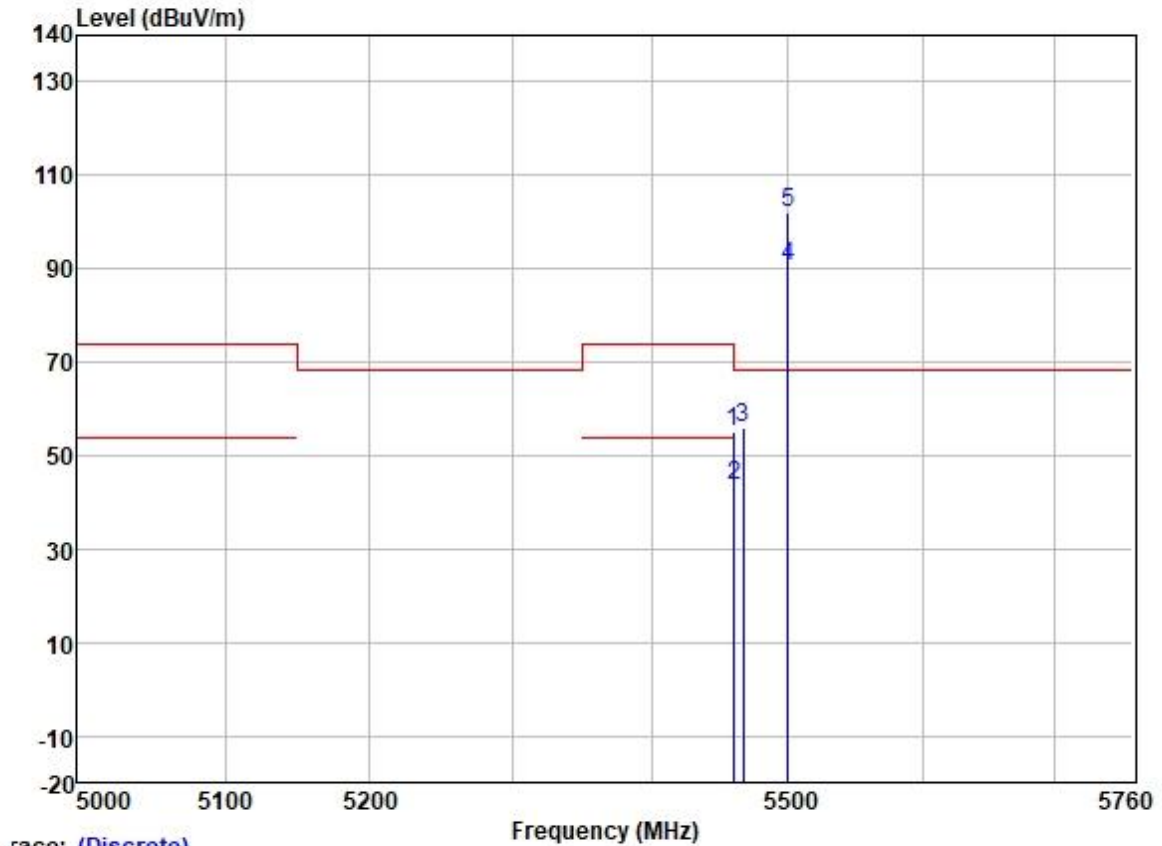


Trace: (Discrete)

	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	5452.595	53.31	31.79	6.26	36.88	54.48	74.00	-19.52	HORIZONTAL Peak
2	5459.430	41.64	31.79	6.26	36.88	42.81	54.00	-11.19	HORIZONTAL Average
3	5467.115	54.69	31.80	6.31	36.88	55.92	68.20	-12.28	HORIZONTAL Peak
4	5500.000	89.06	31.80	6.40	36.88	90.38	-----	-----	HORIZONTAL Average
5 *	5500.000	100.10	31.80	6.40	36.88	101.42	68.20	33.22	HORIZONTAL Peak



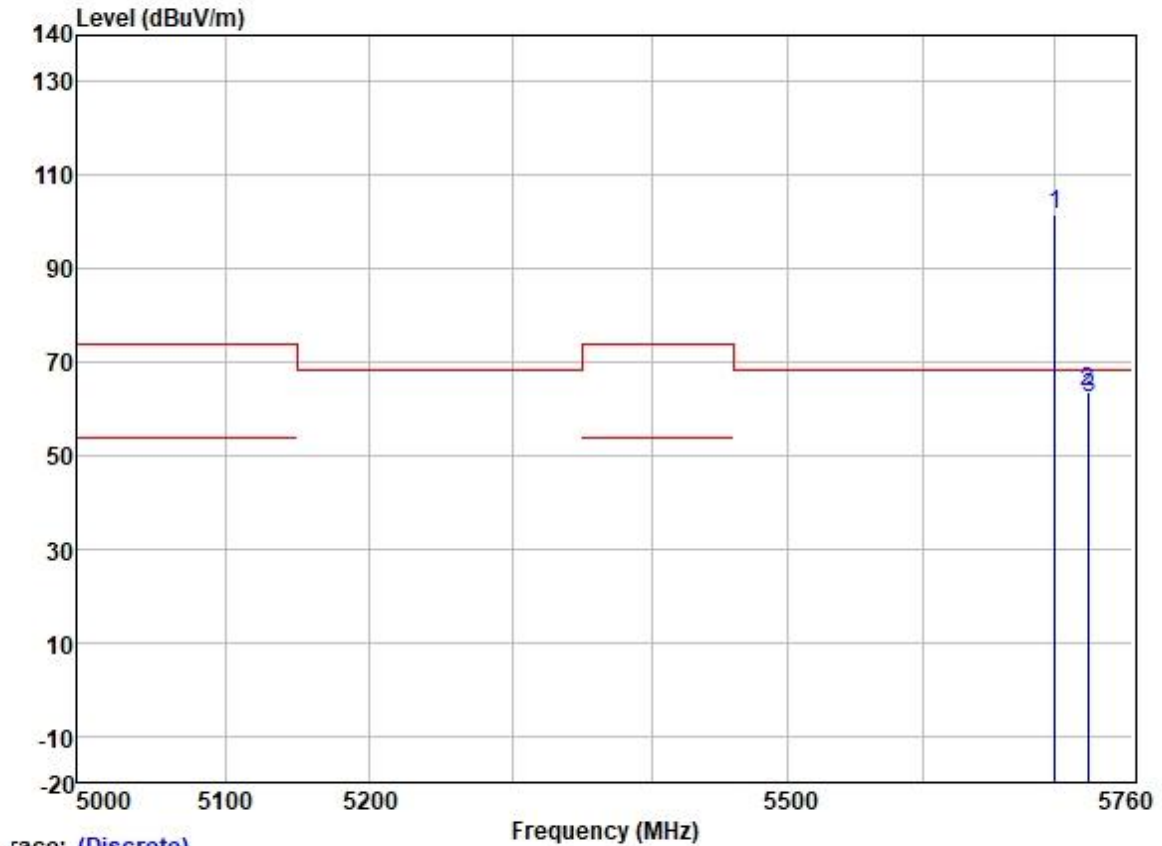
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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	5459.430	54.06	31.79	6.26	36.88	55.23	74.00	-18.77	VERTICAL Peak
2	5459.910	42.45	31.79	6.26	36.88	43.62	54.00	-10.38	VERTICAL Average
3	5466.995	54.78	31.80	6.31	36.88	56.01	68.20	-12.19	VERTICAL Peak
4	5500.000	89.38	31.80	6.40	36.88	90.70	-----	-----	VERTICAL Average
5 *	5500.000	100.84	31.80	6.40	36.88	102.16	68.20	33.96	VERTICAL Peak

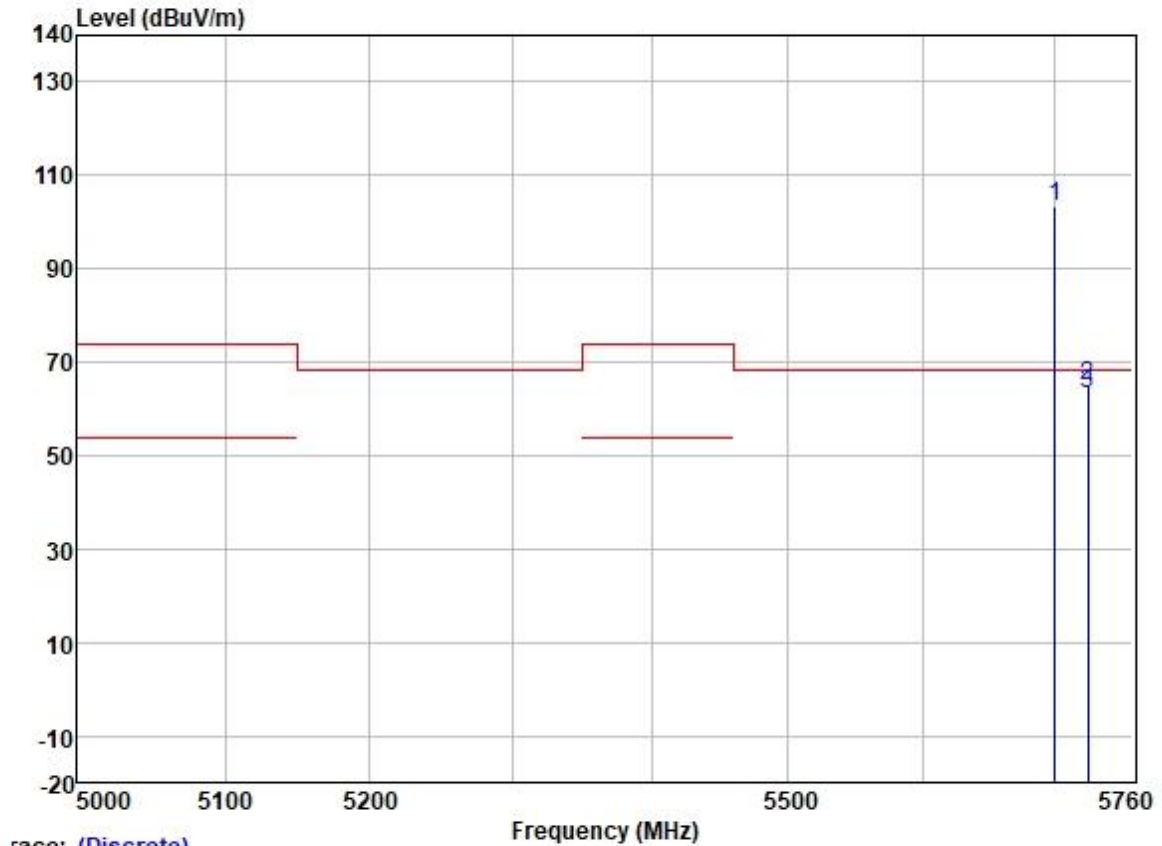
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 *	5700.000	100.04	32.01	6.40	36.89	101.56	68.20	33.36
2	5725.000	62.04	32.07	6.25	36.89	63.47	68.20	-4.73
3	5725.883	60.97	32.07	6.25	36.89	62.40	68.20	-5.80

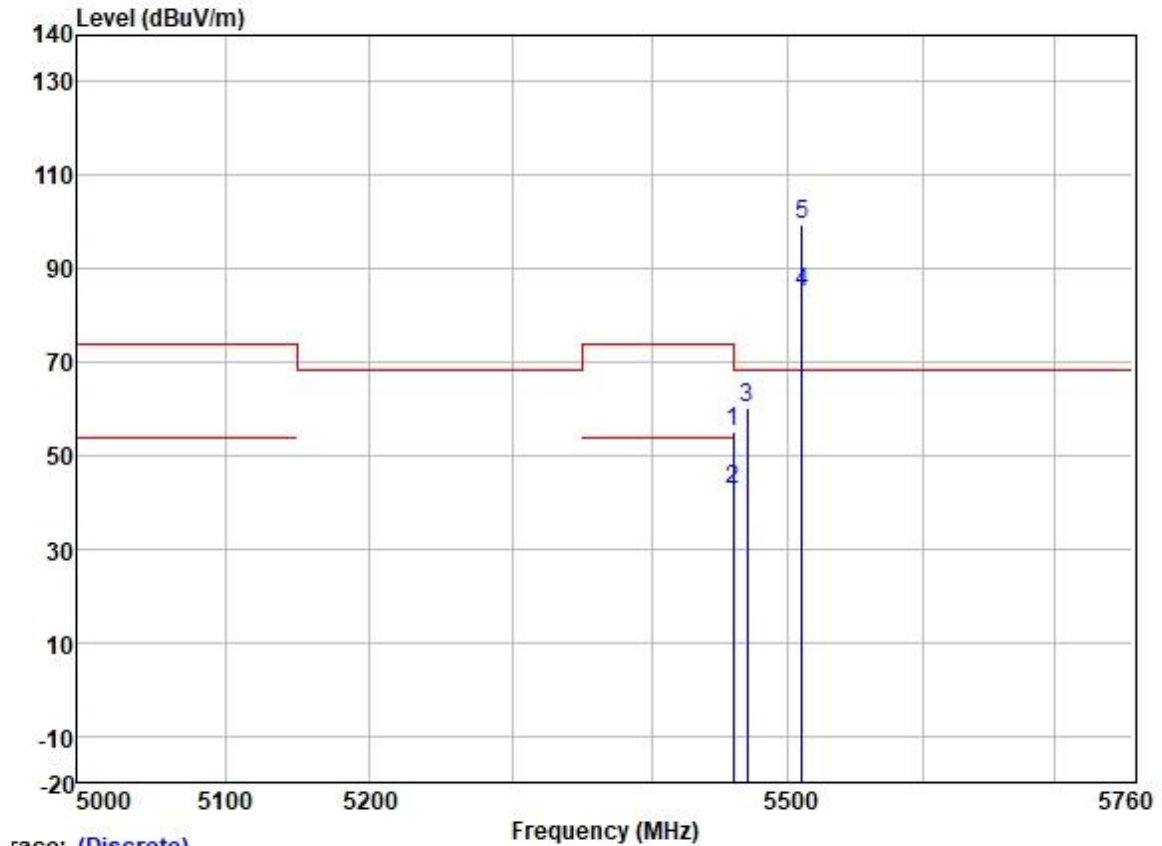
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



		Read	Antenna	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 *	5700.000	101.76	32.01	6.40	36.89	103.28	68.20	35.08	VERTICAL	Peak
2	5725.000	63.59	32.07	6.25	36.89	65.02	68.20	-3.18	VERTICAL	Peak
3	5725.483	61.83	32.07	6.25	36.89	63.26	68.20	-4.94	VERTICAL	Peak

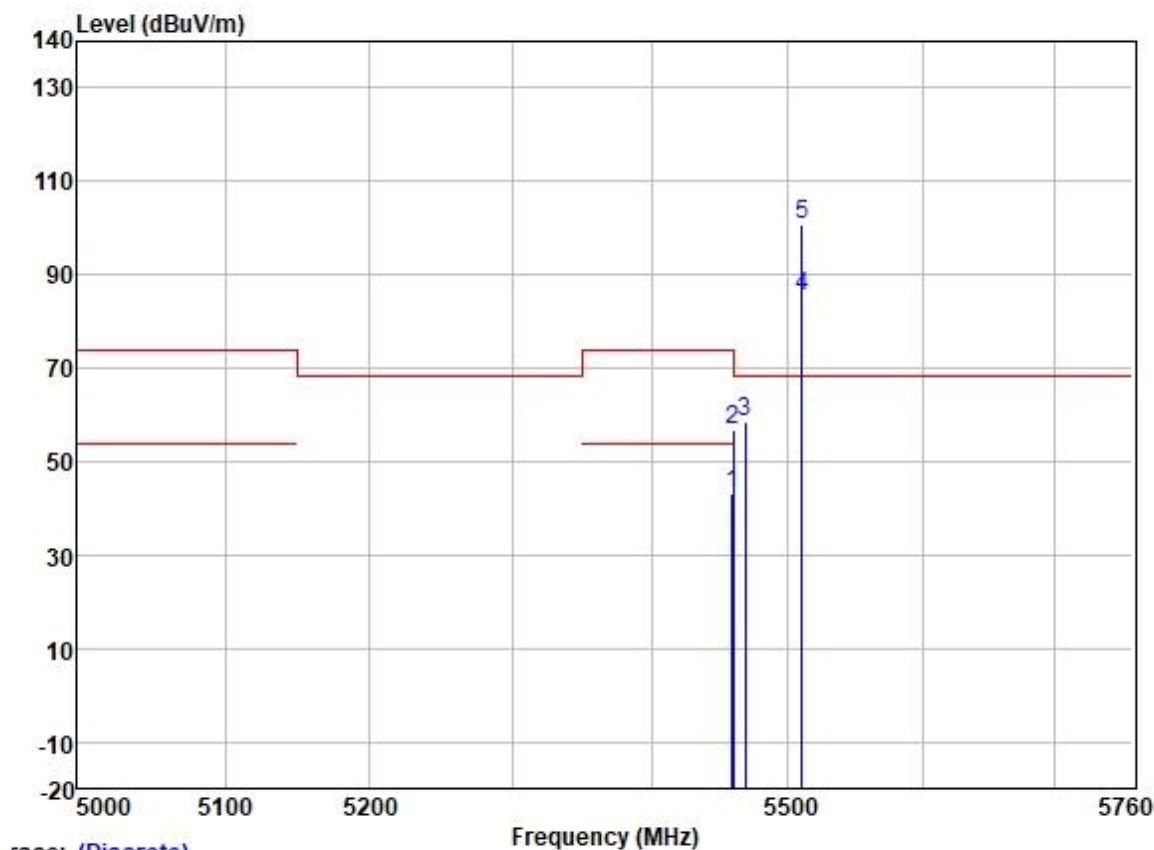


Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



		Read	Antenna	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	5459.063	54.06	31.79	6.26	36.88	55.23	74.00	-18.77	HORIZONTAL	Peak
2	5459.761	41.40	31.79	6.26	36.88	42.57	54.00	-11.43	HORIZONTAL	Average
3	5469.692	59.07	31.80	6.31	36.88	60.30	68.20	-7.90	HORIZONTAL	Peak
4	5510.000	83.62	31.80	6.40	36.88	84.94	-----	-----	HORIZONTAL	Average
5 *	5510.000	98.29	31.80	6.40	36.88	99.61	68.20	31.41	HORIZONTAL	Peak

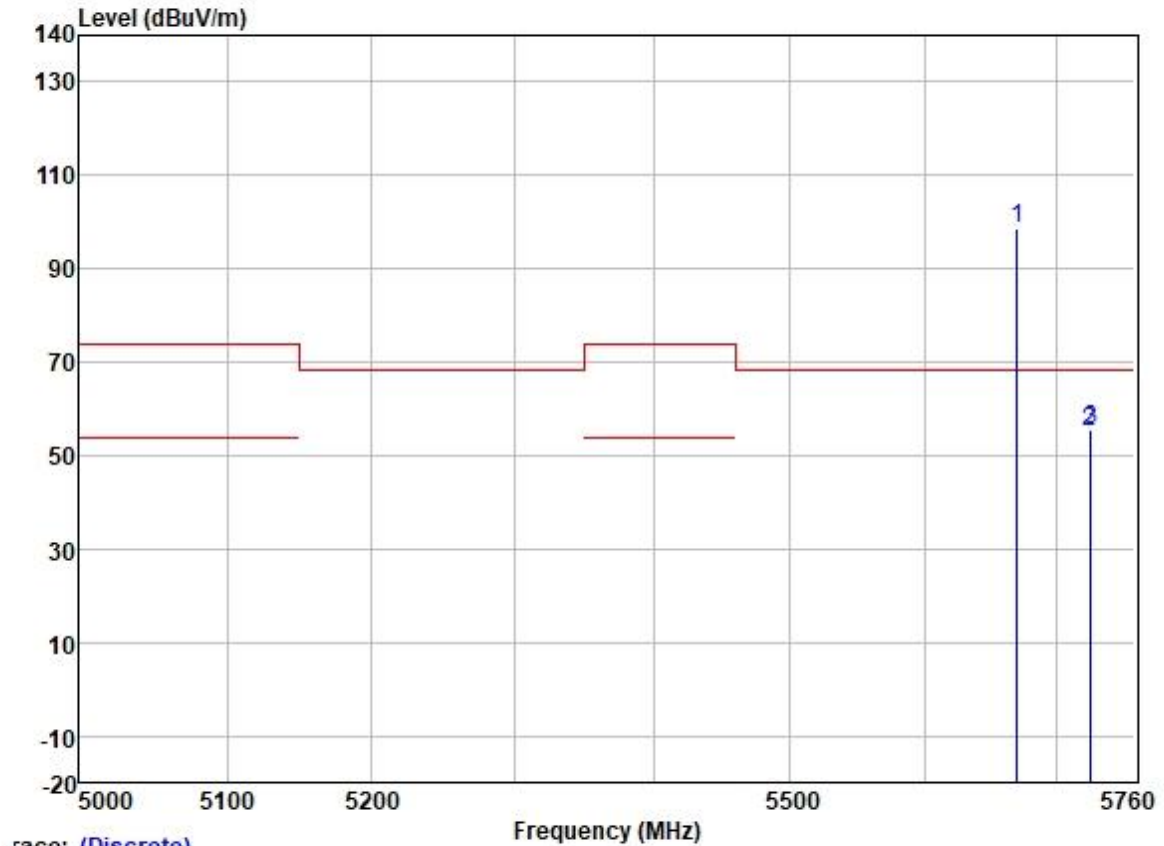
Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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	dBuV/m	dB	
1	5458.643	42.14	31.79	6.26	36.88	43.31	54.00	-10.69	VERTICAL
2	5459.481	55.45	31.79	6.26	36.88	56.62	74.00	-17.38	VERTICAL
3	5468.432	57.47	31.80	6.31	36.88	58.70	68.20	-9.50	VERTICAL
4	5510.000	84.22	31.80	6.40	36.88	85.54	-----	-----	VERTICAL
5 *	5510.000	99.31	31.80	6.40	36.88	100.63	68.20	32.43	VERTICAL

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

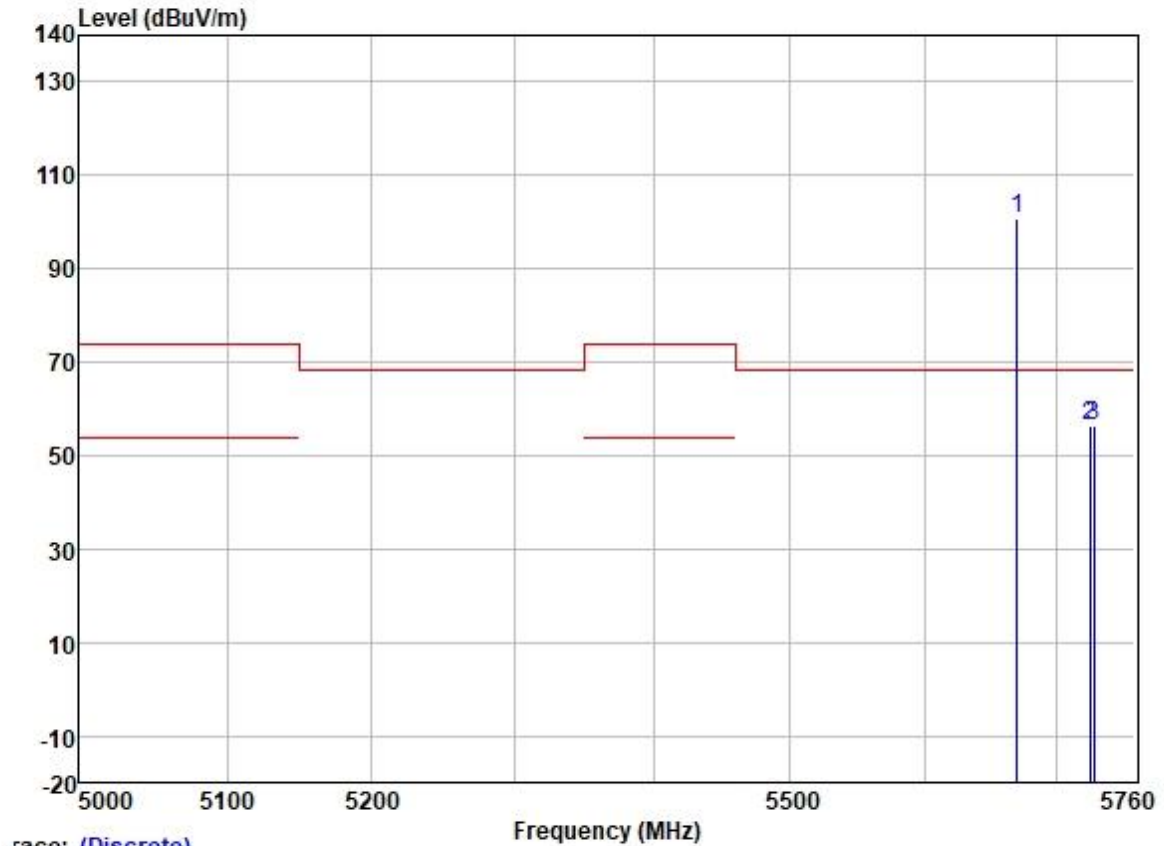


Trace: (Discrete)

		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	* 5670.000	97.04	31.97	6.37	36.89	98.49	68.20	30.29	HORIZONTAL	Peak
2	5725.000	53.76	32.07	6.25	36.89	55.19	68.20	-13.01	HORIZONTAL	Peak
3	5726.255	54.27	32.07	6.25	36.89	55.70	68.20	-12.50	HORIZONTAL	Peak



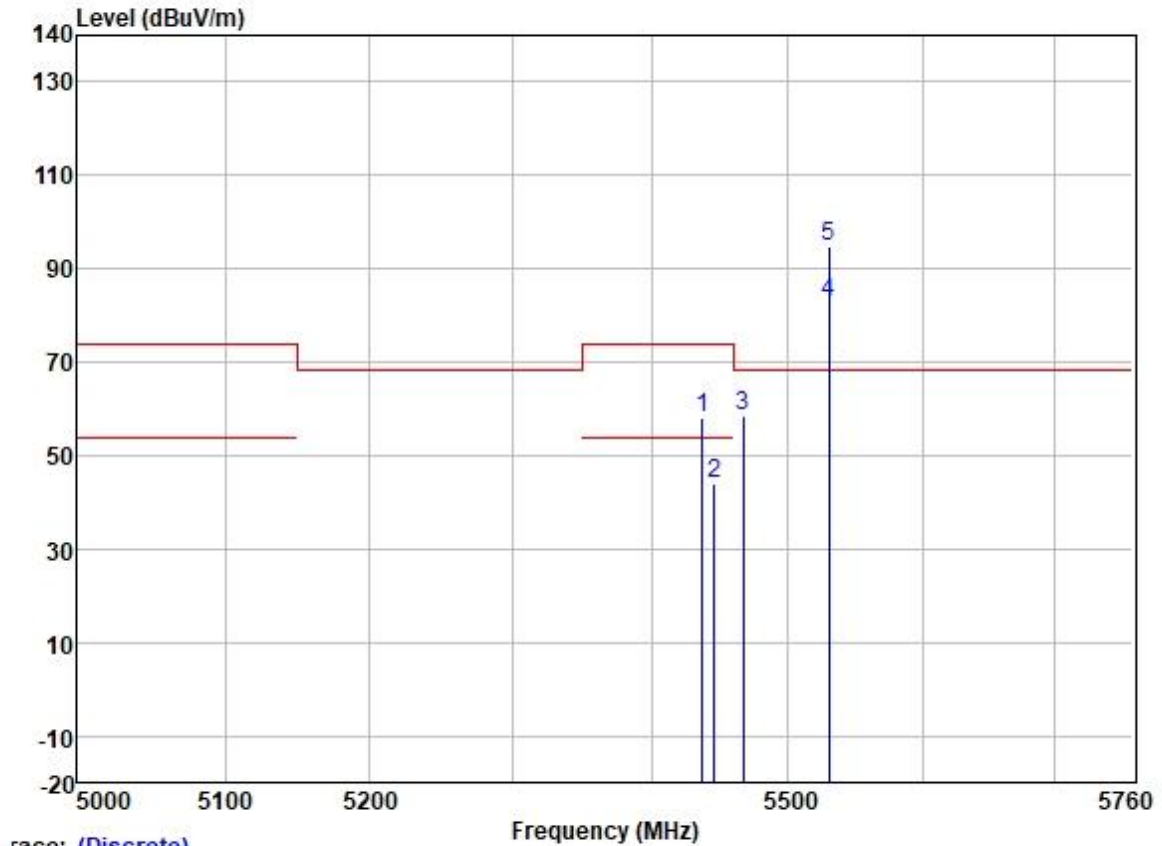
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



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	dB		
1 *	5670.000	99.31	31.97	6.37	36.89	100.76	68.20	32.56 VERTICAL	Peak
2	5725.000	54.92	32.07	6.25	36.89	56.35	68.20	-11.85 VERTICAL	Peak
3	5728.502	55.04	32.07	6.25	36.89	56.47	68.20	-11.73 VERTICAL	Peak

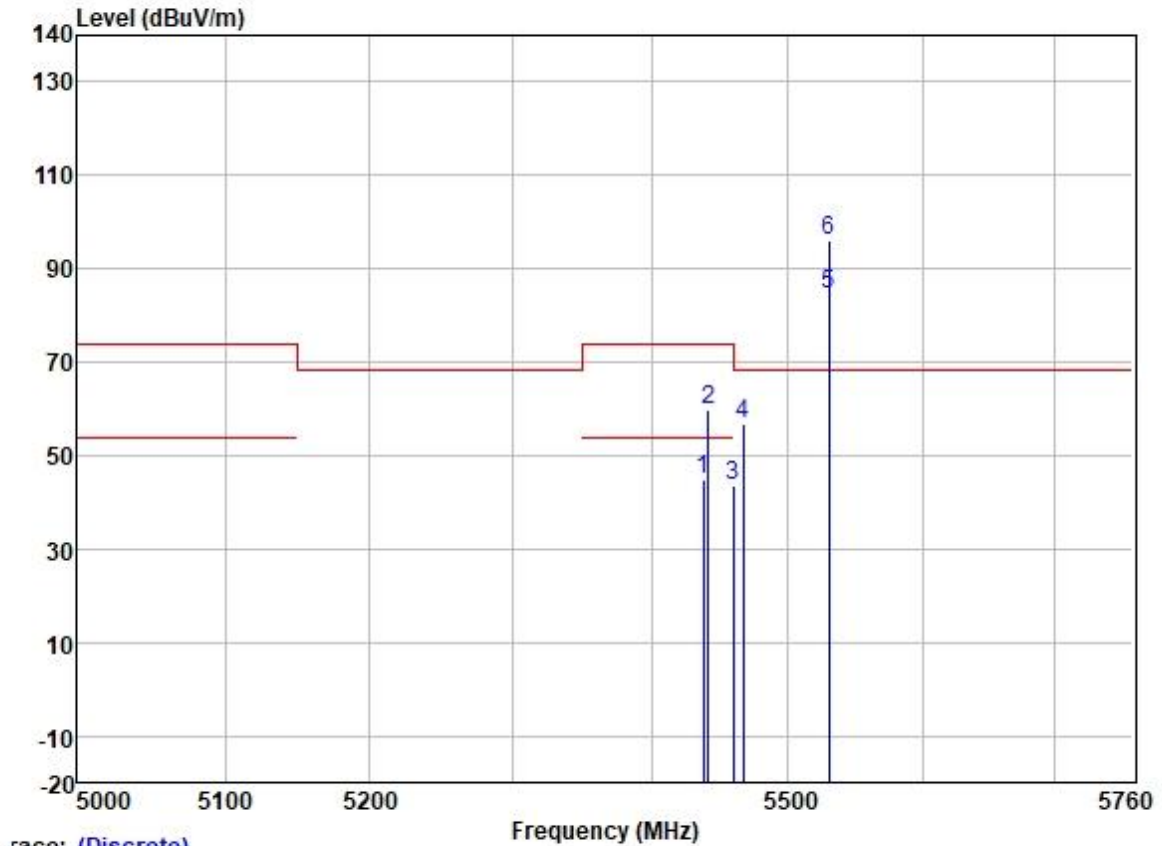
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



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	5437.134	57.03	31.79	6.20	36.88	58.14	74.00	-15.86	HORIZONTAL Peak
2	5445.520	42.95	31.79	6.20	36.88	44.06	54.00	-9.94	HORIZONTAL Average
3	5466.809	57.09	31.80	6.31	36.88	58.32	68.20	-9.88	HORIZONTAL Peak
4	5530.000	81.64	31.83	6.37	36.89	82.95	-----	-----	HORIZONTAL Average
5 *	5530.000	93.52	31.83	6.37	36.89	94.83	68.20	26.63	HORIZONTAL Peak

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

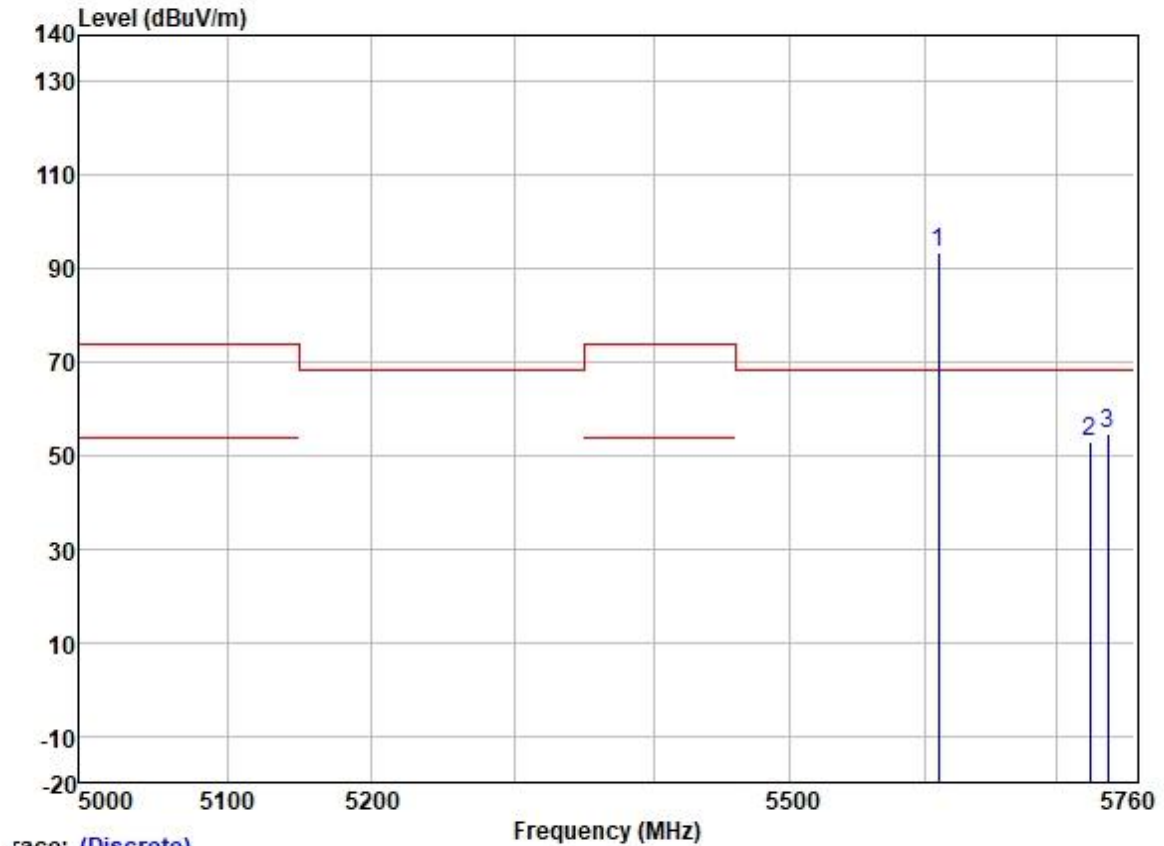


Trace: (Discrete)

	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	5437.668	43.73	31.79	6.20	36.88	44.84	54.00	-9.16	VERTICAL Average
2	5441.236	58.80	31.79	6.20	36.88	59.91	74.00	-14.09	VERTICAL Peak
3	5459.465	42.38	31.79	6.26	36.88	43.55	54.00	-10.45	VERTICAL Average
4	5466.809	55.47	31.80	6.31	36.88	56.70	68.20	-11.50	VERTICAL Peak
5	5530.000	83.31	31.83	6.37	36.89	84.62	-----	-----	VERTICAL Average
6 *	5530.000	94.83	31.83	6.37	36.89	96.14	68.20	27.94	VERTICAL Peak



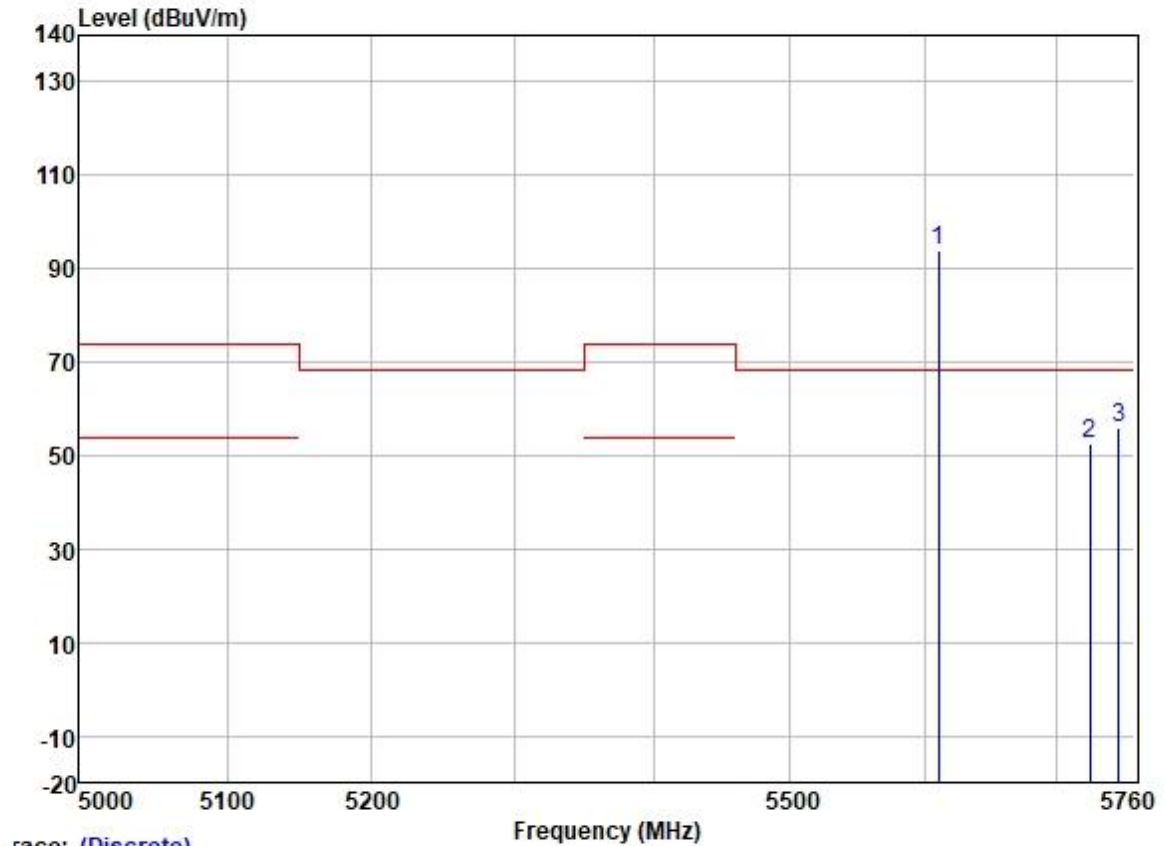
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5610.000	92.01	31.91	6.32	36.89	93.35	68.20	25.15	HORIZONTAL	Peak
2	5725.095	51.46	32.07	6.25	36.89	52.89	68.20	-15.31	HORIZONTAL	Peak
3	5739.072	53.27	32.10	6.20	36.89	54.68	68.20	-13.52	HORIZONTAL	Peak

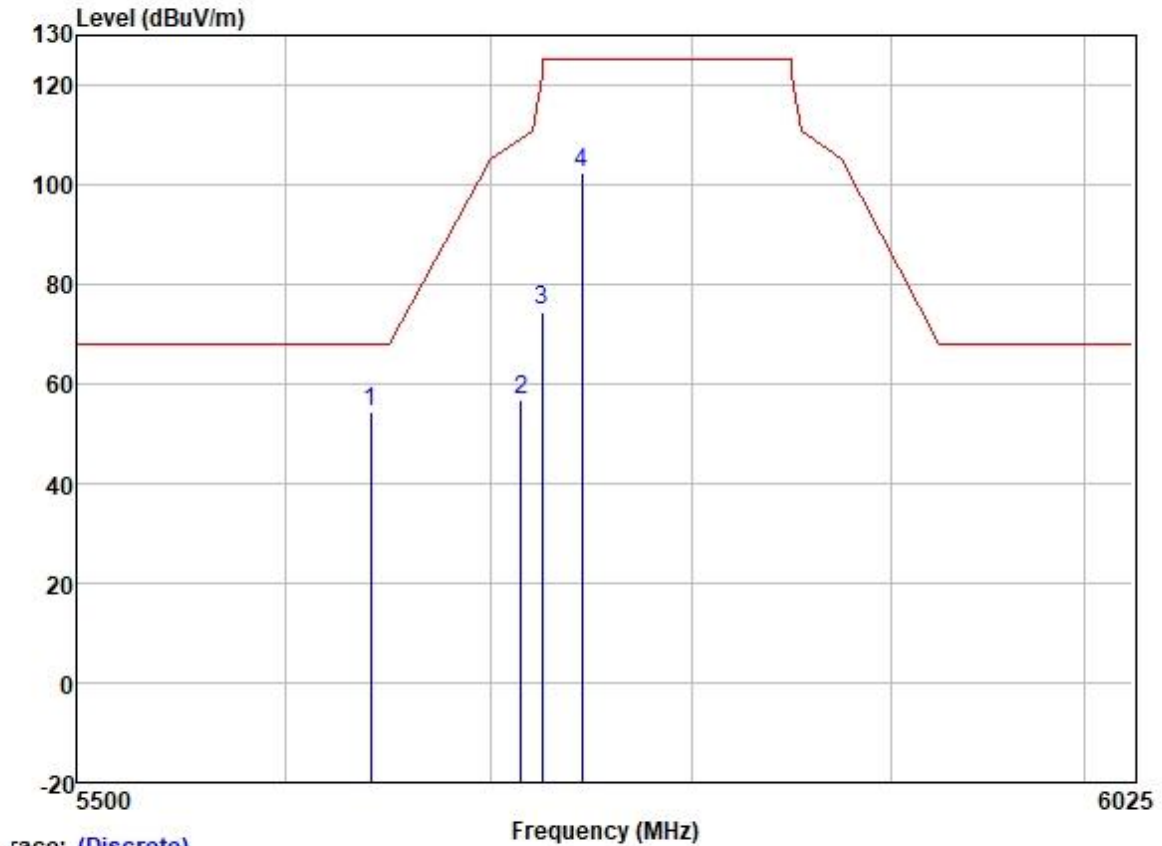
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: High



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	* 5610.000	92.49	31.91	6.32	36.89	93.83	68.20	25.63	VERTICAL	Peak
2	5725.500	51.12	32.07	6.25	36.89	52.55	68.20	-15.65	VERTICAL	Peak
3	5747.394	54.55	32.10	6.20	36.89	55.96	68.20	-12.24	VERTICAL	Peak

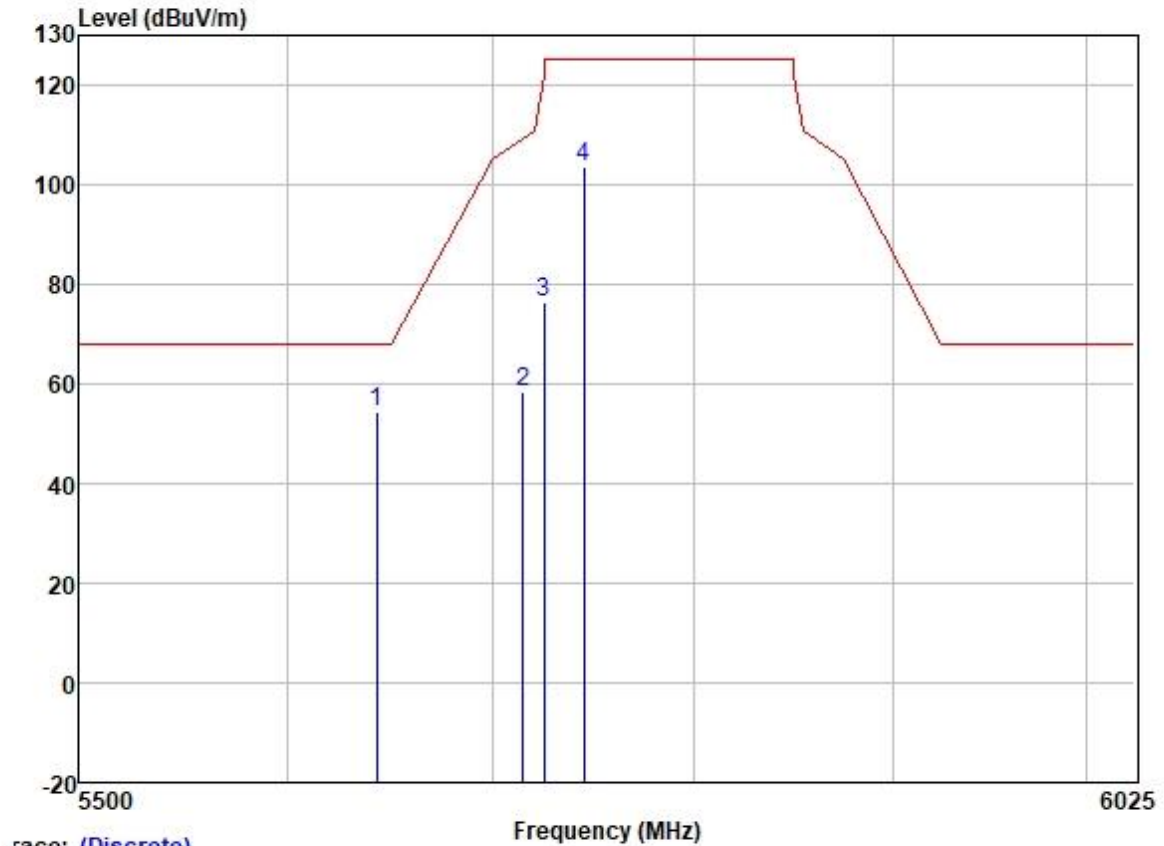
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	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	5641.245	53.13	31.95	6.35	36.89	54.54	68.20	-13.66	HORIZONTAL Peak
2	5715.000	55.18	32.04	6.33	36.89	56.66	109.40	-52.74	HORIZONTAL Peak
3	5725.000	73.17	32.07	6.25	36.89	74.60	122.20	-47.60	HORIZONTAL Peak
4	5745.000	100.93	32.10	6.20	36.89	102.34	125.20	-22.86	HORIZONTAL Peak

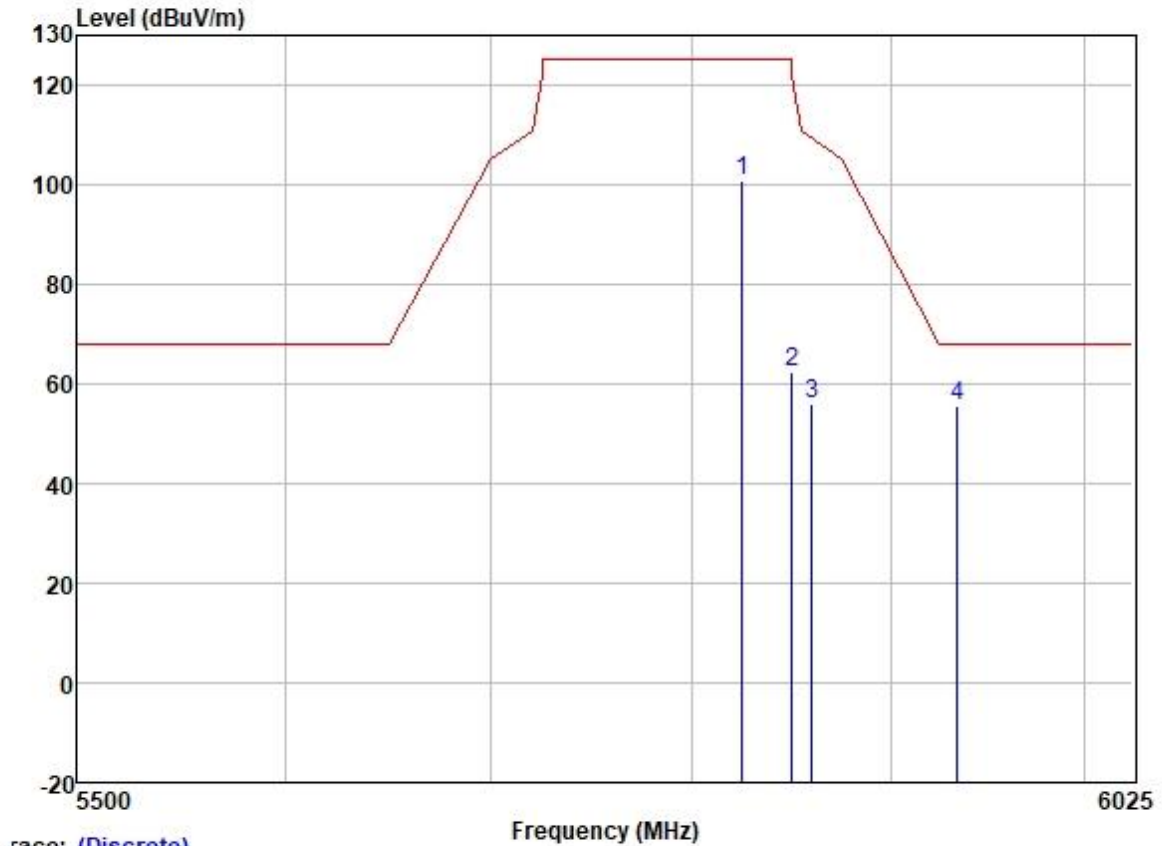


Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



		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	5642.905	53.09	31.95	6.35	36.89	54.50	68.20	-13.70	VERTICAL	Peak
2	5715.000	56.99	32.04	6.33	36.89	58.47	109.40	-50.93	VERTICAL	Peak
3	5725.000	74.87	32.07	6.25	36.89	76.30	122.20	-45.90	VERTICAL	Peak
4	5745.000	102.00	32.10	6.20	36.89	103.41	125.20	-21.79	VERTICAL	Peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	99.51	32.23	6.04	36.90	100.88	125.20	-24.32	HORIZONTAL	Peak
2	5850.000	61.23	32.25	6.00	36.90	62.58	122.20	-59.62	HORIZONTAL	Peak
3	5860.000	54.54	32.27	5.96	36.90	55.87	109.40	-53.53	HORIZONTAL	Peak
4	5934.486	54.26	32.34	6.00	36.90	55.70	68.20	-12.50	HORIZONTAL	Peak