



TEST REPORT

Application No.: GZCR2112021463AT
Applicant: XDynamics Limited
Address of Applicant: Units 216-217, Photonics Centre, N0. 2 Science Park East Avenue, Hong Kong.
Manufacturer: XDynamics Limited
Address of Manufacturer: Units 216-217, Photonics Centre, N0. 2 Science Park East Avenue, Hong Kong.
Equipment Under Test (EUT):
EUT Name: Ground Station
Model No.: Evolve2 GroundStation
Trade Mark: Xdynamics
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-05-17
Date of Test: 2021-11-29 to 2021-12-28
Date of Issue: 2021-12-30

Test Result:	Pass*
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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		2021-12-30		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
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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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 14.8V Lithium-ion 6700mAh 99.16Wh rechargeable battery (to be charged from AC/DC Adapter) AC/DC Adapter Model: BYX-17666000 Input: AC 100-240V, 50/60Hz, 1.5A Max. Output: DC17.6V, 6.6A
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; 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) 802.11a/n(HT20)/ac(HT20): 20MHz;
Channel Spacing:	802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	2dBi
Remark:	Both voltages AC 120V, 50/60Hz and AC 240V, 50/60Hz were tested. Only the worst voltage (AC 120V, 60Hz) was recorded in the report.

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.12\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (below 1GHz)	5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m)
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Radiated Emissions (above 1GHz)	5.08 dB (1-6GHz); 5.14 (above 6 GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{cisp}} (\text{CISPR Uncertainty})$, 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



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	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
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
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
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
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
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



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Guangzhou Branch Testing Laboratory CEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

MI CABLE	SGS-EMC	0.8M	EMC2136	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
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	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
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Radiated Emissions (below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	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	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24



1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
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
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

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	2021-01-08	2022-01-07
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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna: 2dBi.

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)

6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip 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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 51.5 % RH

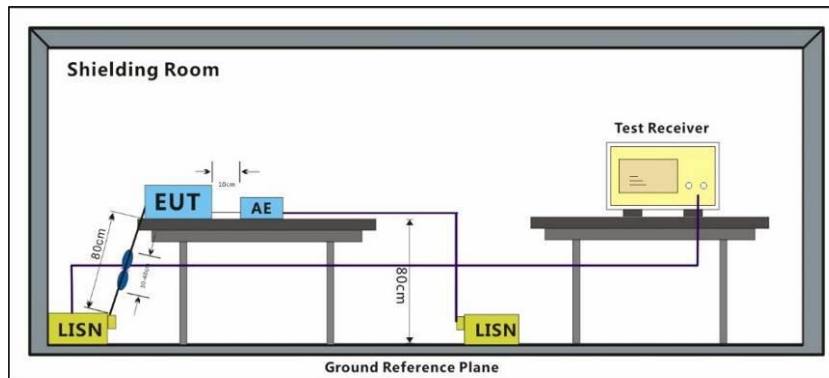
Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
		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	02	
		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	03	
		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.
Final test	04	



7.1.3 Test Setup Diagram



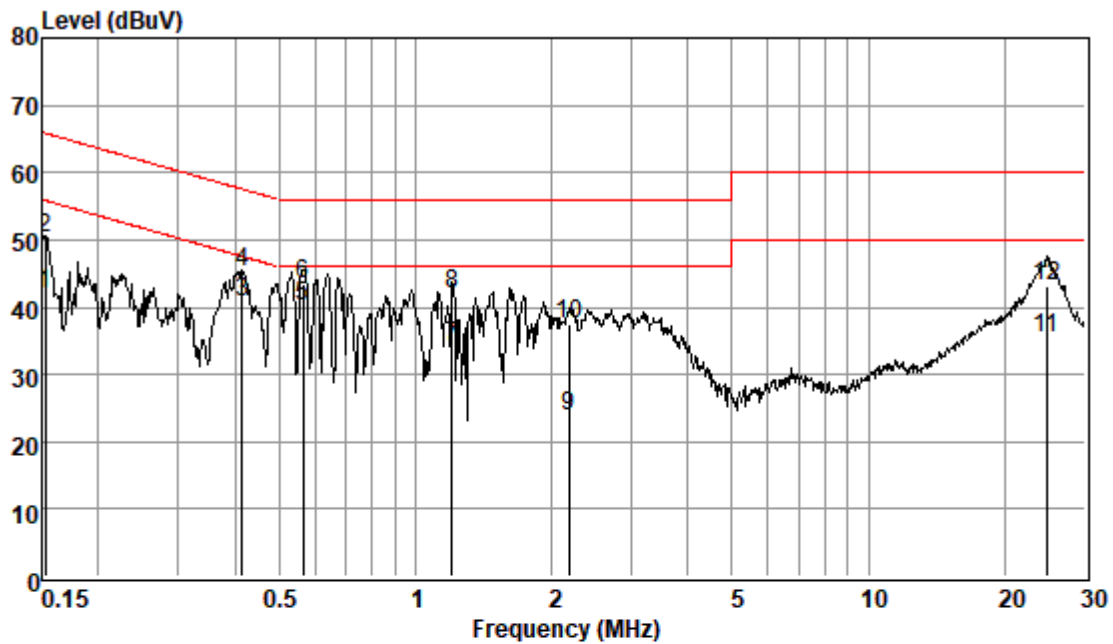
7.1.4 Measurement Procedure and Data

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

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

Worst Case:

Test Mode: 02; Line: Live Line; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



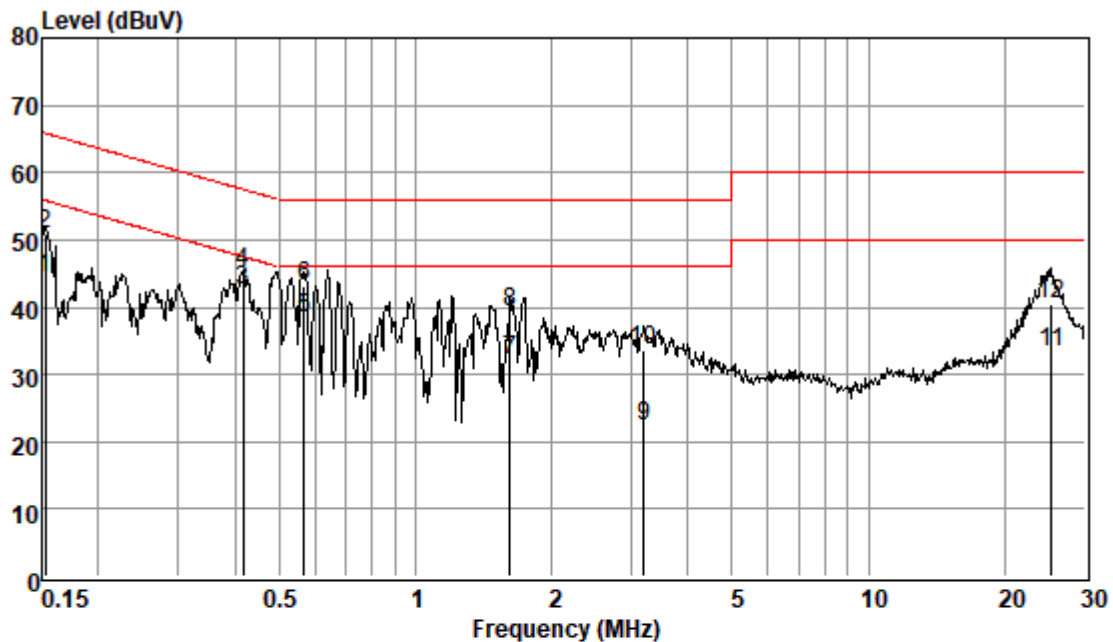
Pol :LINE

Mode :

Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	32.38	0.06	9.62	42.06	55.87	-13.81	Average
0.15	40.66	0.06	9.62	50.34	65.87	-15.53	QP
0.41	31.14	0.06	9.62	40.82	47.55	-6.73	Average
0.41	35.42	0.06	9.62	45.10	57.55	-12.45	QP
0.56	30.40	0.07	9.63	40.10	46.00	-5.90	Average
0.56	33.64	0.07	9.63	43.34	56.00	-12.66	QP
1.20	24.49	0.08	9.61	34.18	46.00	-11.82	Average
1.20	32.30	0.08	9.61	41.99	56.00	-14.01	QP
2.18	14.15	0.12	9.62	23.89	46.00	-22.11	Average
2.18	27.80	0.12	9.62	37.54	56.00	-18.46	QP
24.66	25.20	0.40	9.88	35.48	50.00	-14.52	Average
24.66	32.89	0.40	9.88	43.17	60.00	-16.83	QP

Test Mode: 02; Line: Neutral Line; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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
0.15	34.75	0.06	9.55	44.36	55.87	-11.51	Average
0.15	41.25	0.06	9.55	50.86	65.87	-15.01	QP
0.42	32.92	0.06	9.56	42.54	47.51	-4.97	Average
0.42	35.59	0.06	9.56	45.21	57.51	-12.30	QP
0.57	28.70	0.07	9.54	38.31	46.00	-7.69	Average
0.57	33.52	0.07	9.54	43.13	56.00	-12.87	QP
1.62	22.38	0.10	9.55	32.03	46.00	-13.97	Average
1.62	29.53	0.10	9.55	39.18	56.00	-16.82	QP
3.19	12.50	0.15	9.56	22.21	46.00	-23.79	Average
3.19	23.81	0.15	9.56	33.52	56.00	-22.48	QP
25.32	23.00	0.41	9.82	33.23	50.00	-16.77	Average
25.32	30.28	0.41	9.82	40.51	60.00	-19.49	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: 21.2 °C

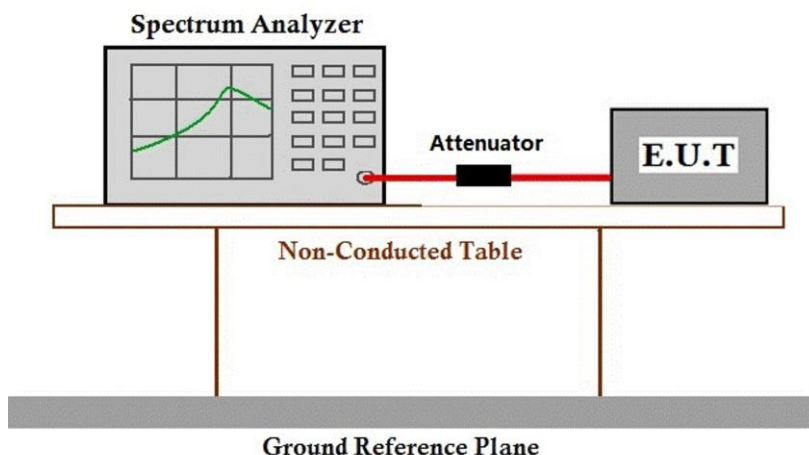
Humidity: 52.4 % RH

Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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	03	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	04	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

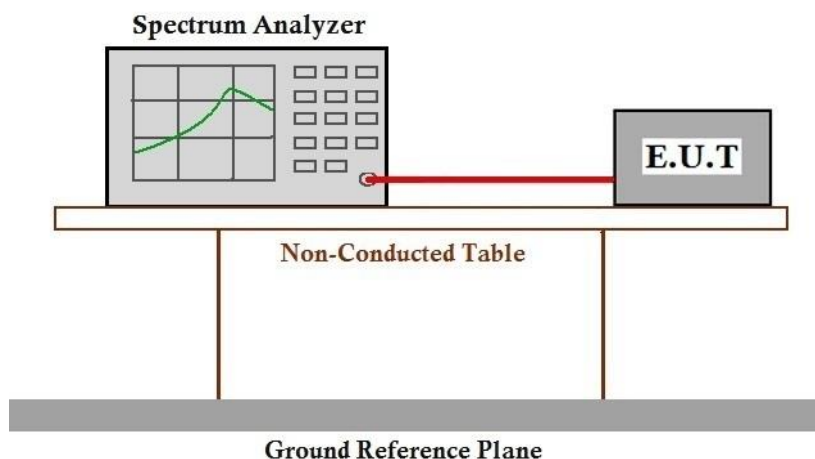
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.2 °C Humidity: 52.4 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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	03	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	04	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

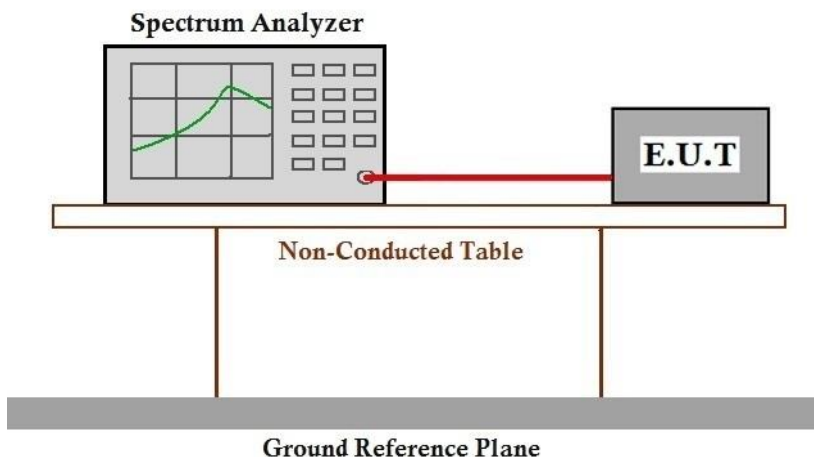
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 21.2 °C Humidity: 52.4 % RH Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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	03	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	04	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: 21.2 °C

Humidity: 52.4 % RH

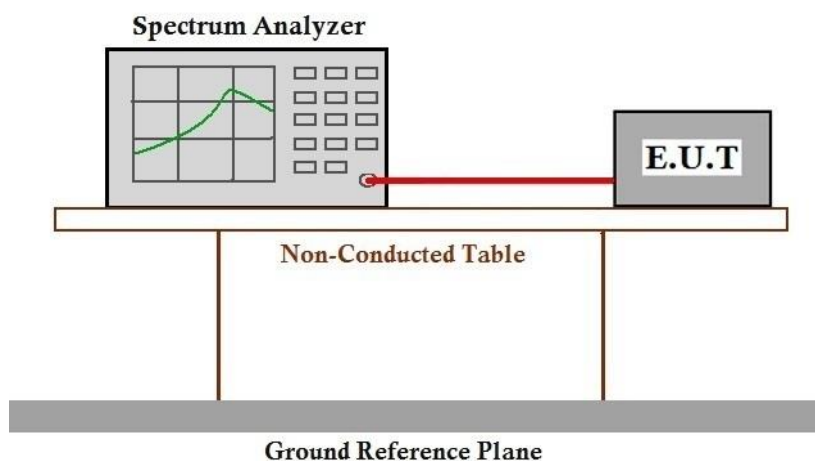
Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

Final test	04
------------	----

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.

7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 52.4 % RH

Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

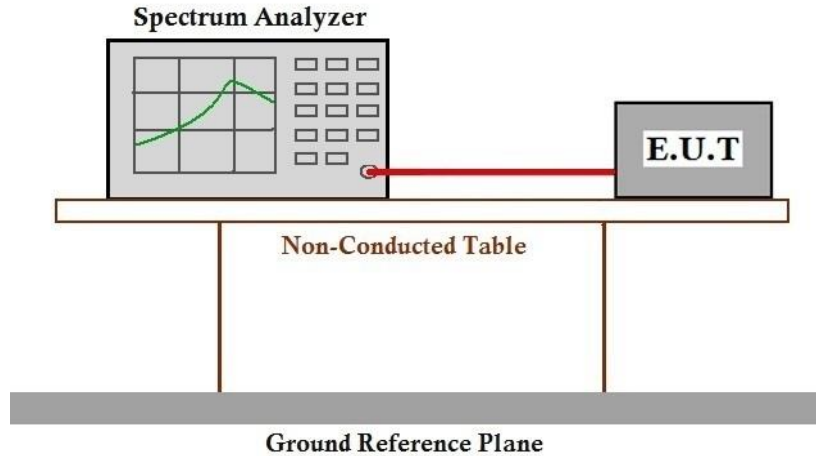
Pre-scan / Final test	Mode Code	Description
		TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 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	02	
		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	03	
		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.
Final test	04	



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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: 21.2 °C

Humidity: 52.4 % RH

Atmospheric Pressure: 1003 mbar

7.7.2 Test Mode Description

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

Final test	02	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	03	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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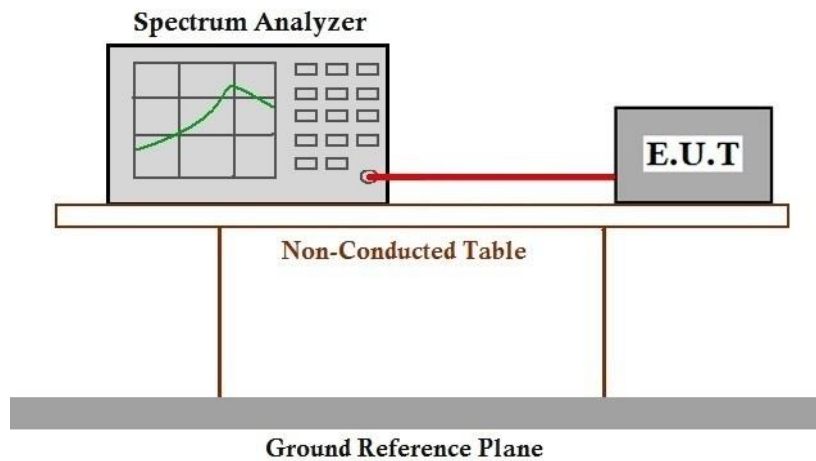
Final test	04	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 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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7.7.3 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 & 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: 52.5 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	



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Final test 02

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.

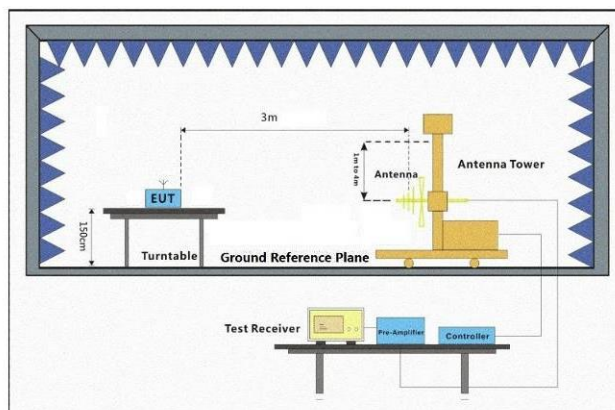
Final test 03

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 04

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



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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 or 10 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.

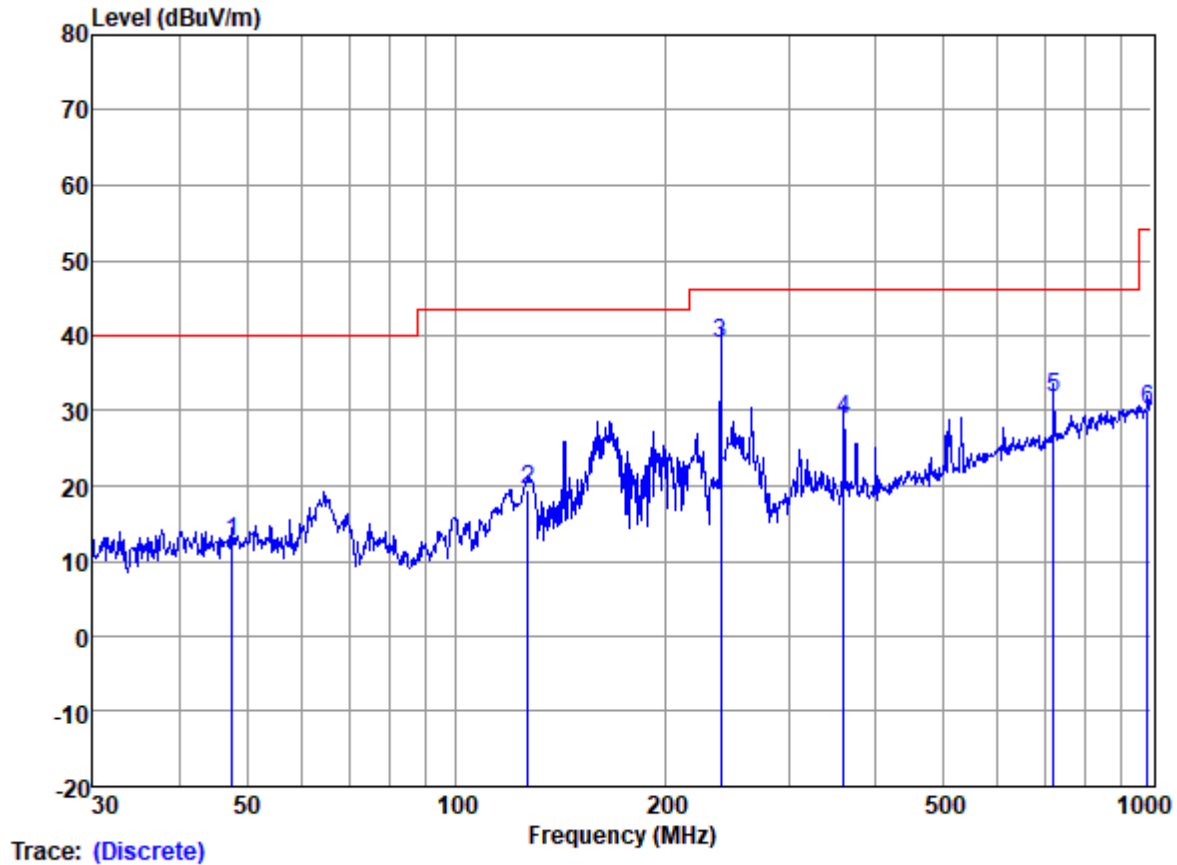


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Worst Case:

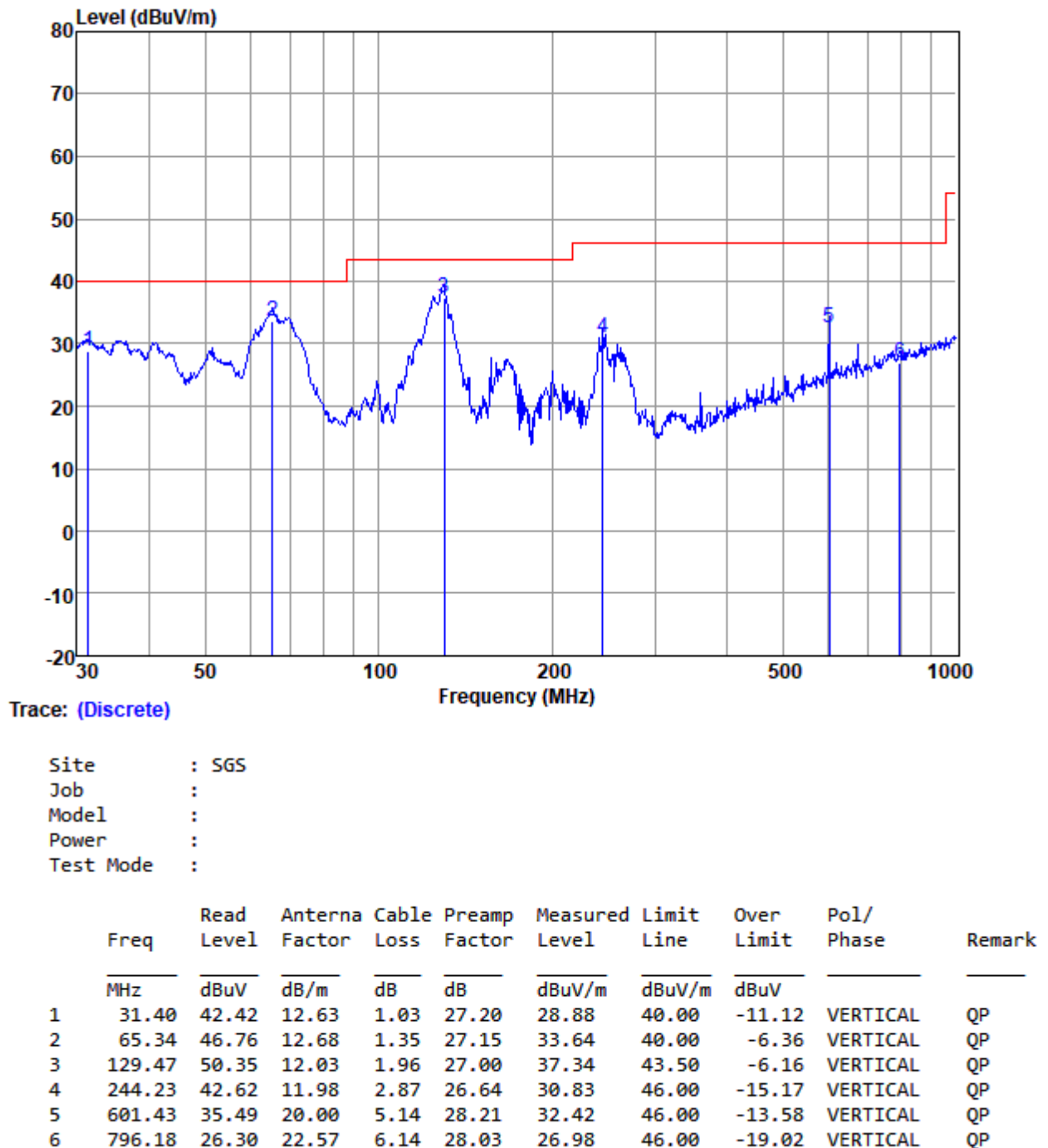
Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	47.66	24.49	13.99	1.13	27.17	12.44	40.00	-27.56	HORIZONTAL	QP
2	126.77	32.96	11.66	1.93	27.01	19.54	43.50	-23.96	HORIZONTAL	QP
3	239.99	50.91	11.90	2.81	26.66	38.96	46.00	-7.04	HORIZONTAL	QP
4	360.45	37.30	14.90	3.70	27.11	28.79	46.00	-17.21	HORIZONTAL	QP
5	721.73	32.47	21.57	5.86	28.14	31.76	46.00	-14.24	HORIZONTAL	QP
6	986.07	26.30	24.17	7.37	27.68	30.16	54.00	-23.84	HORIZONTAL	QP

Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

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: 25.5 °C

Humidity: 54.8 % RH

Atmospheric Pressure: 1003 mbar

7.9.1 Test Mode Description

Pre-scan / Mode
Final test Code

Description

Final test 02

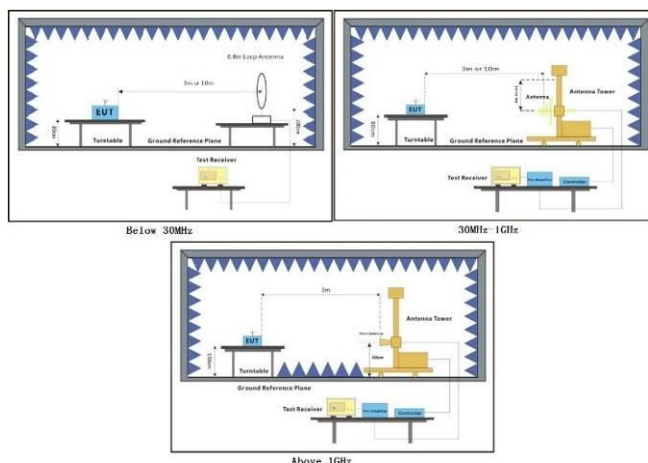
TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst 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 03

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 04

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.

7.9.2 Test Setup Diagram

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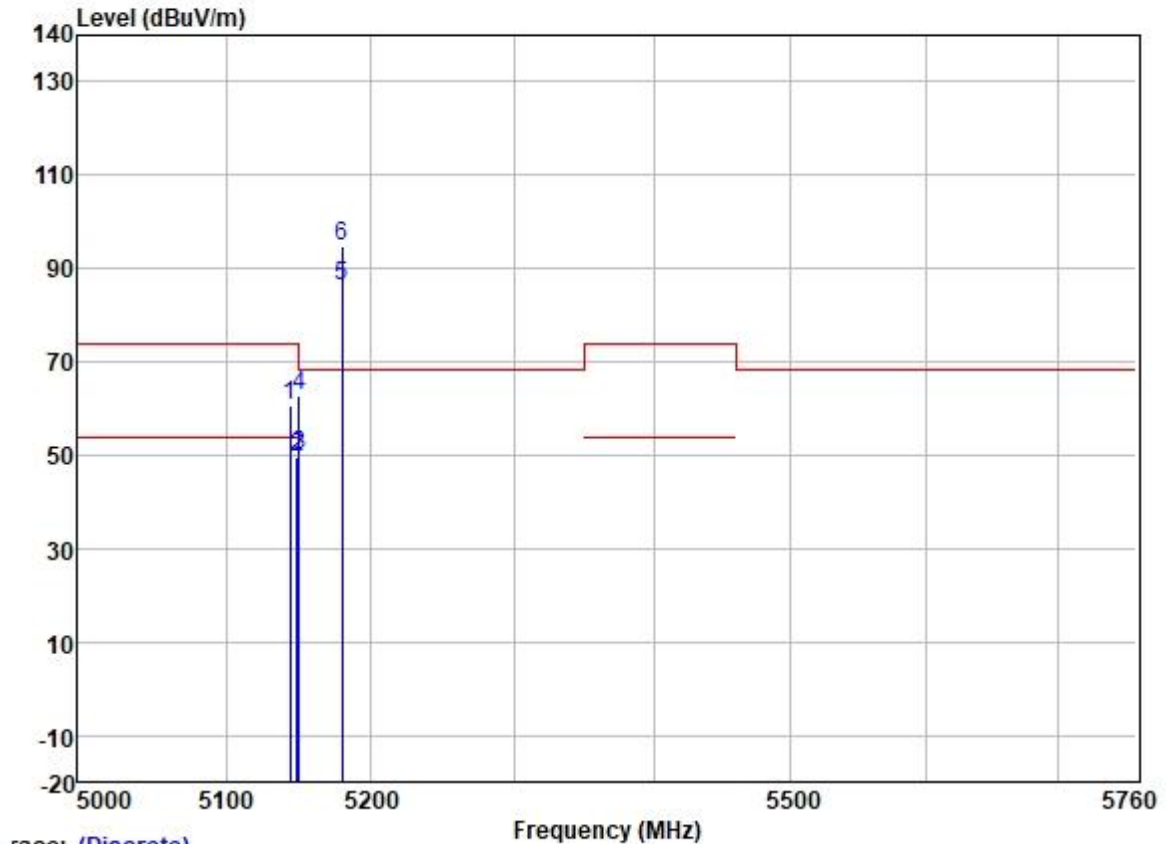
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7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

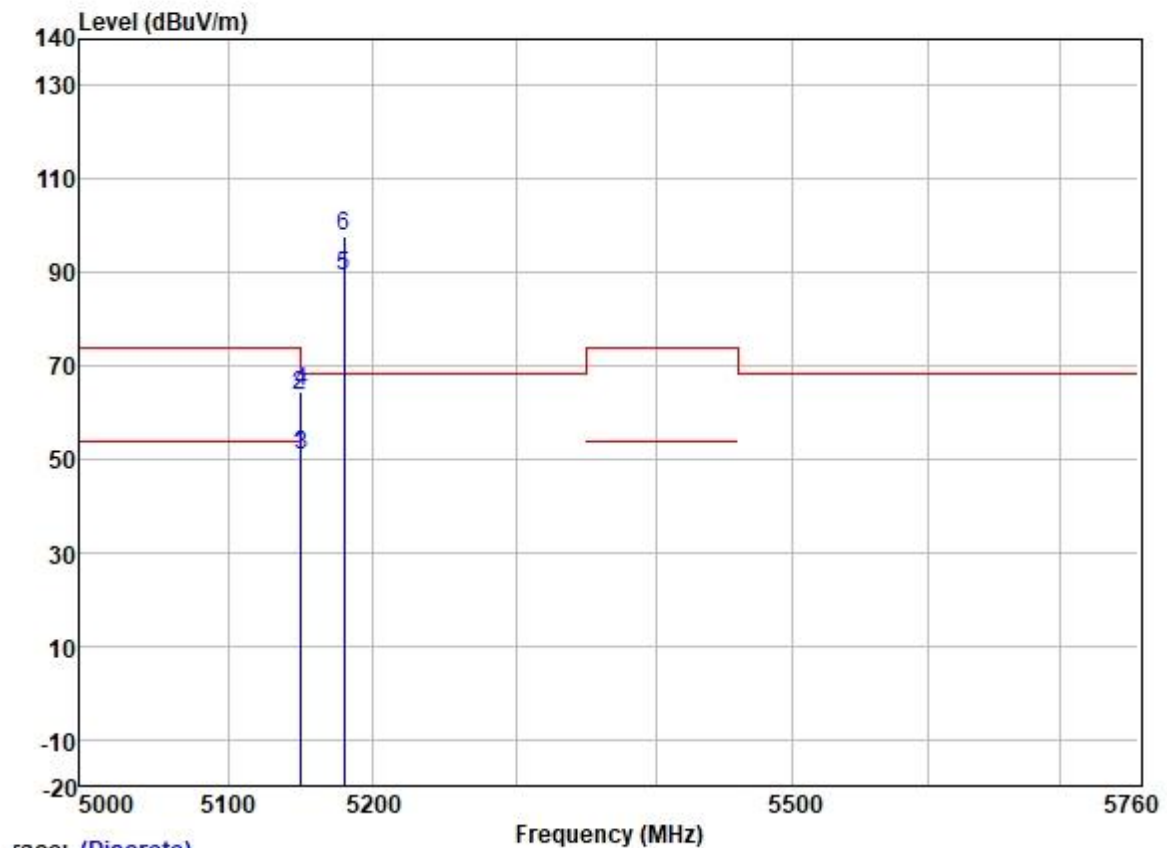
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	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	5144.061	60.29	31.72	5.62	36.86	60.77	74.00	-13.23	HORIZONTAL	Peak
2	5148.757	49.12	31.72	5.62	36.86	49.60	54.00	-4.40	HORIZONTAL	Average
3	5149.980	49.38	31.72	5.62	36.86	49.86	54.00	-4.14	HORIZONTAL	Average
4	5149.980	62.15	31.72	5.62	36.86	62.63	74.00	-11.37	HORIZONTAL	Peak
5	5180.000	85.82	31.73	5.61	36.87	86.29	-----	-----	HORIZONTAL	Average
6 *	5180.000	94.17	31.73	5.61	36.87	94.64	68.20	26.44	HORIZONTAL	Peak

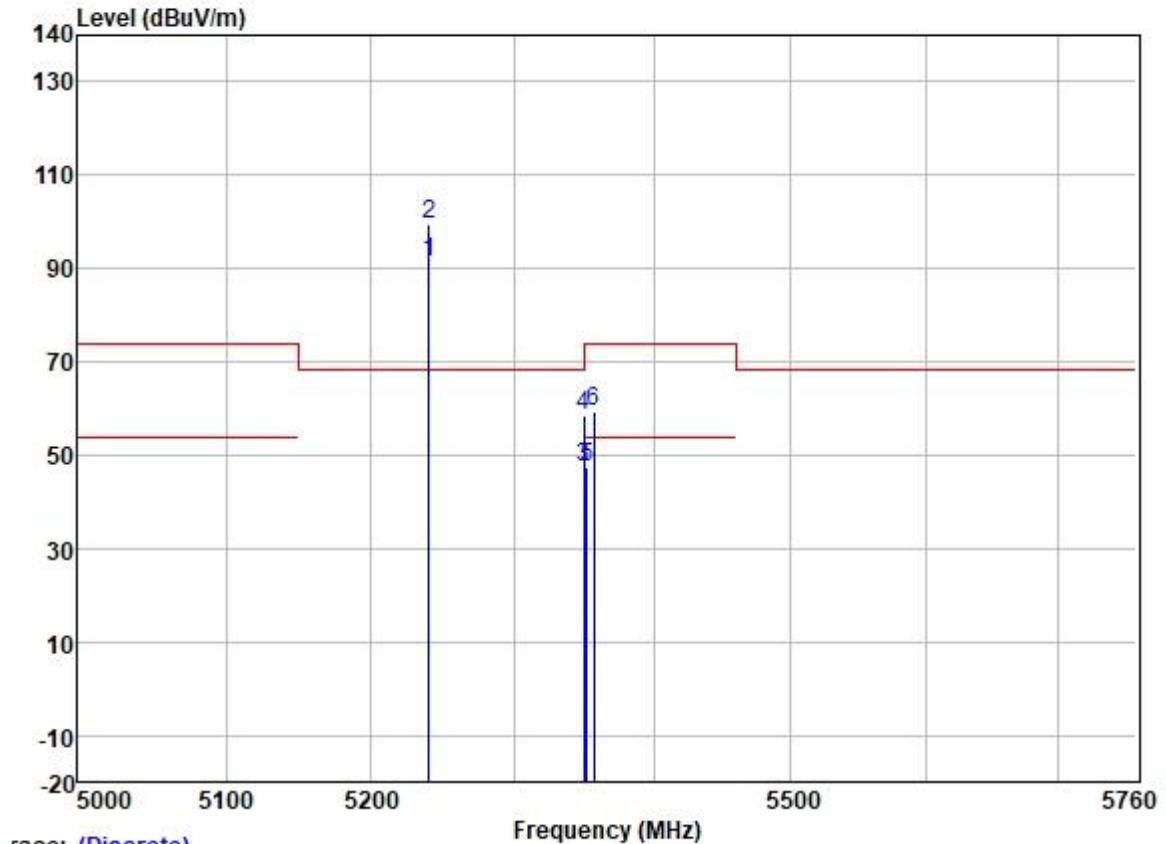
Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	5149.357	50.36	31.72	5.62	36.86	50.84	54.00	-3.16	VERTICAL
2	5149.458	63.33	31.72	5.62	36.86	63.81	74.00	-10.19	VERTICAL
3	5149.980	50.29	31.72	5.62	36.86	50.77	54.00	-3.23	VERTICAL
4	5149.980	63.93	31.72	5.62	36.86	64.41	74.00	-9.59	VERTICAL
5	5180.000	88.64	31.73	5.61	36.87	89.11	-----	-----	VERTICAL
6 *	5180.000	97.22	31.73	5.61	36.87	97.69	68.20	29.49	VERTICAL

Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

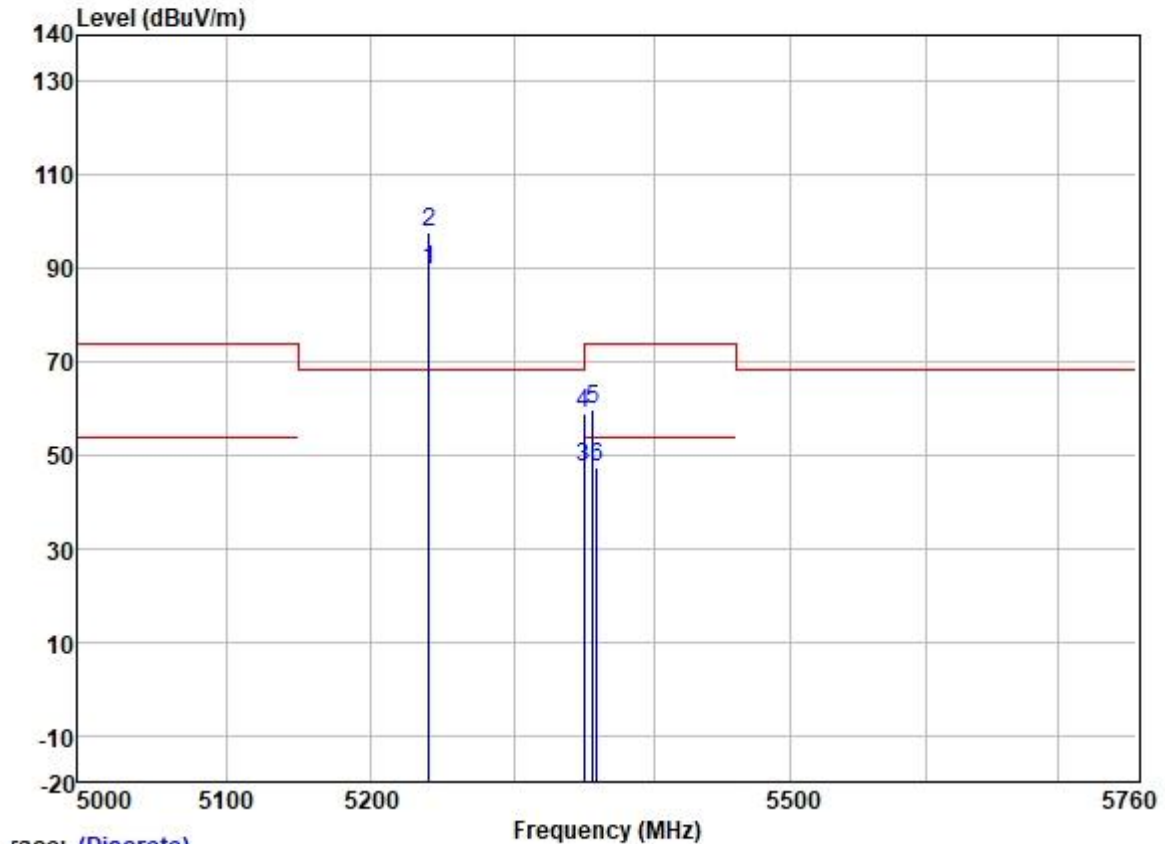
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	90.61	31.75	5.74	36.87	91.23	-----	-----	HORIZONTAL Average
2 *	5240.000	98.94	31.75	5.74	36.87	99.56	68.20	31.36	HORIZONTAL Peak
3	5350.020	46.43	31.77	6.05	36.88	47.37	54.00	-6.63	HORIZONTAL Average
4	5350.020	57.76	31.77	6.05	36.88	58.70	74.00	-15.30	HORIZONTAL Peak
5	5351.920	46.55	31.77	6.05	36.88	47.49	54.00	-6.51	HORIZONTAL Average
6	5356.738	58.42	31.78	6.03	36.88	59.35	74.00	-14.65	HORIZONTAL Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

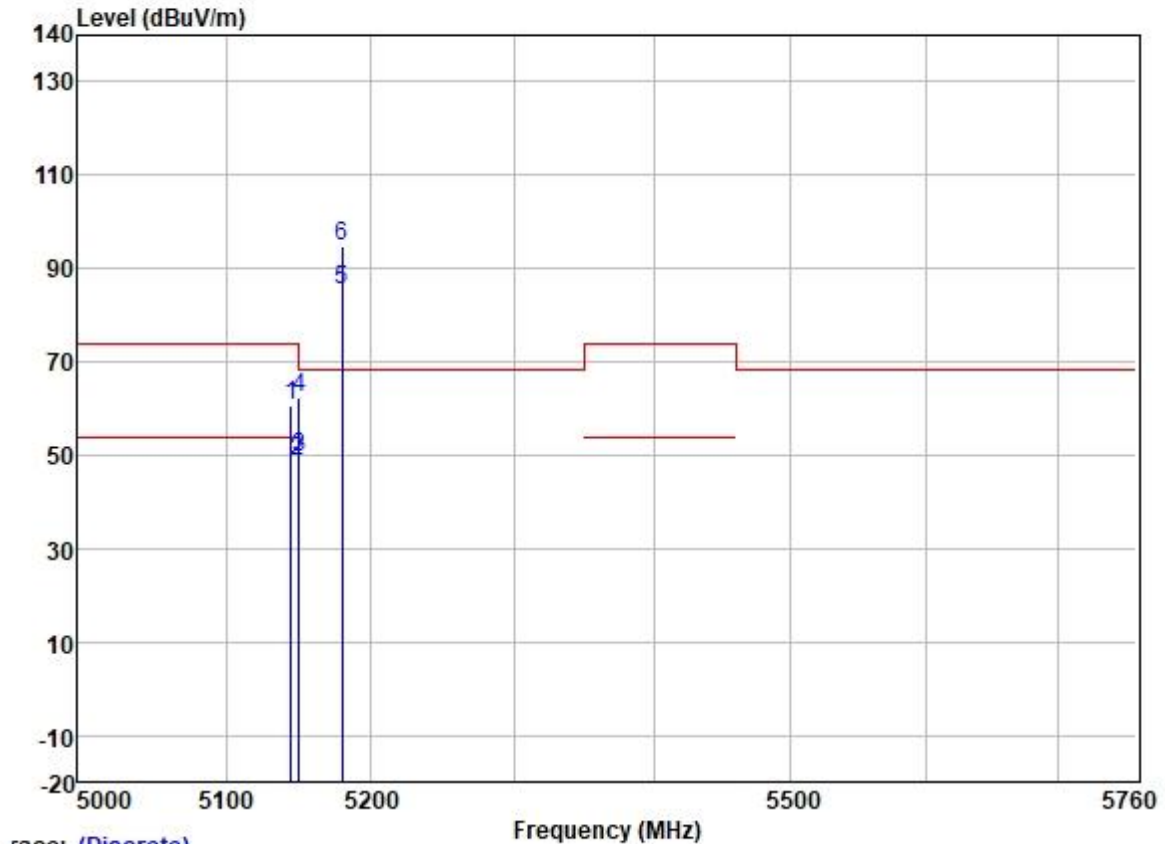
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	88.92	31.75	5.74	36.87	89.54	-----	-----	VERTICAL Average
2 *	5240.000	97.29	31.75	5.74	36.87	97.91	68.20	29.71	VERTICAL Peak
3	5350.020	46.42	31.77	6.05	36.88	47.36	54.00	-6.64	VERTICAL Average
4	5350.020	58.10	31.77	6.05	36.88	59.04	74.00	-14.96	VERTICAL Peak
5	5356.313	58.78	31.78	6.03	36.88	59.71	74.00	-14.29	VERTICAL Peak
6	5358.865	46.63	31.78	6.03	36.88	47.56	54.00	-6.44	VERTICAL Average



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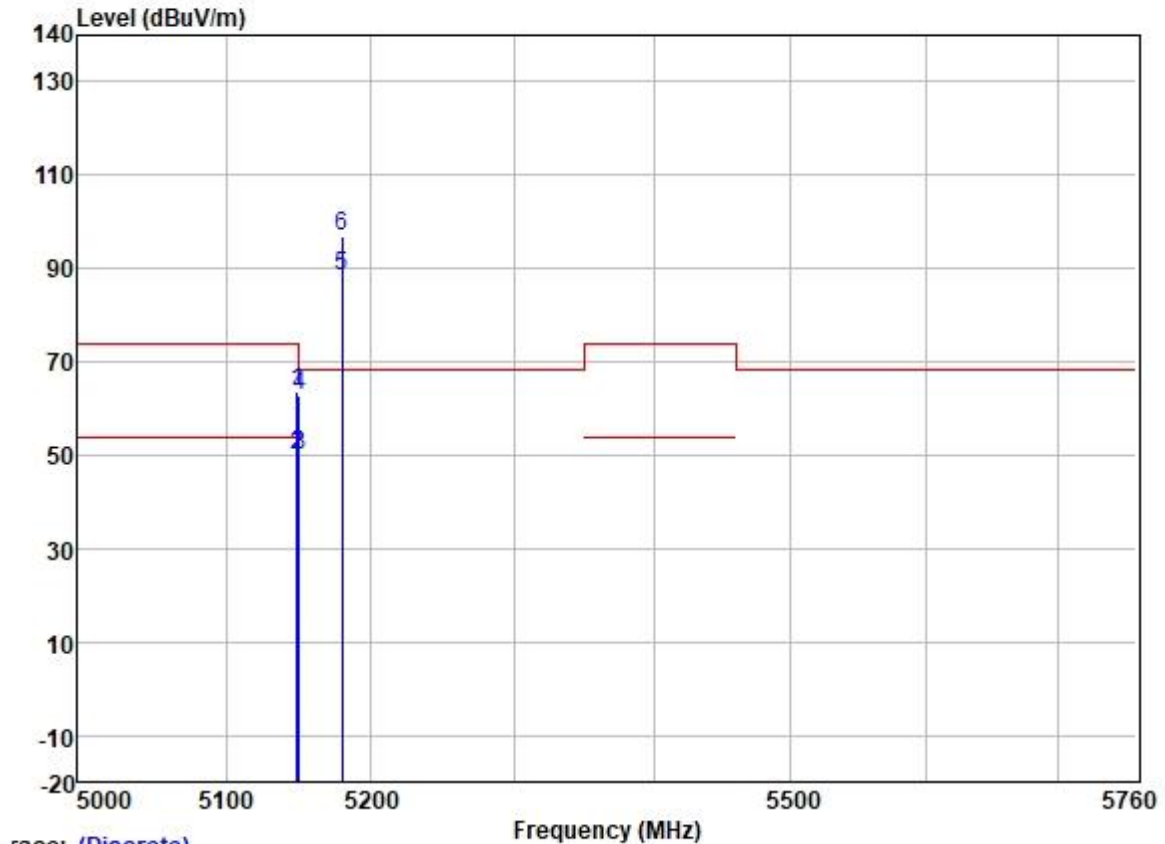
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5144.860	60.26	31.72	5.62	36.86	60.74	74.00	-13.26	HORIZONTAL Peak
2	5149.057	48.34	31.72	5.62	36.86	48.82	54.00	-5.18	HORIZONTAL Average
3	5149.980	48.97	31.72	5.62	36.86	49.45	54.00	-4.55	HORIZONTAL Average
4	5149.980	61.78	31.72	5.62	36.86	62.26	74.00	-11.74	HORIZONTAL Peak
5	5180.000	85.13	31.73	5.61	36.87	85.60	-----	-----	HORIZONTAL Average
6 *	5180.000	94.46	31.73	5.61	36.87	94.93	68.20	26.73	HORIZONTAL Peak

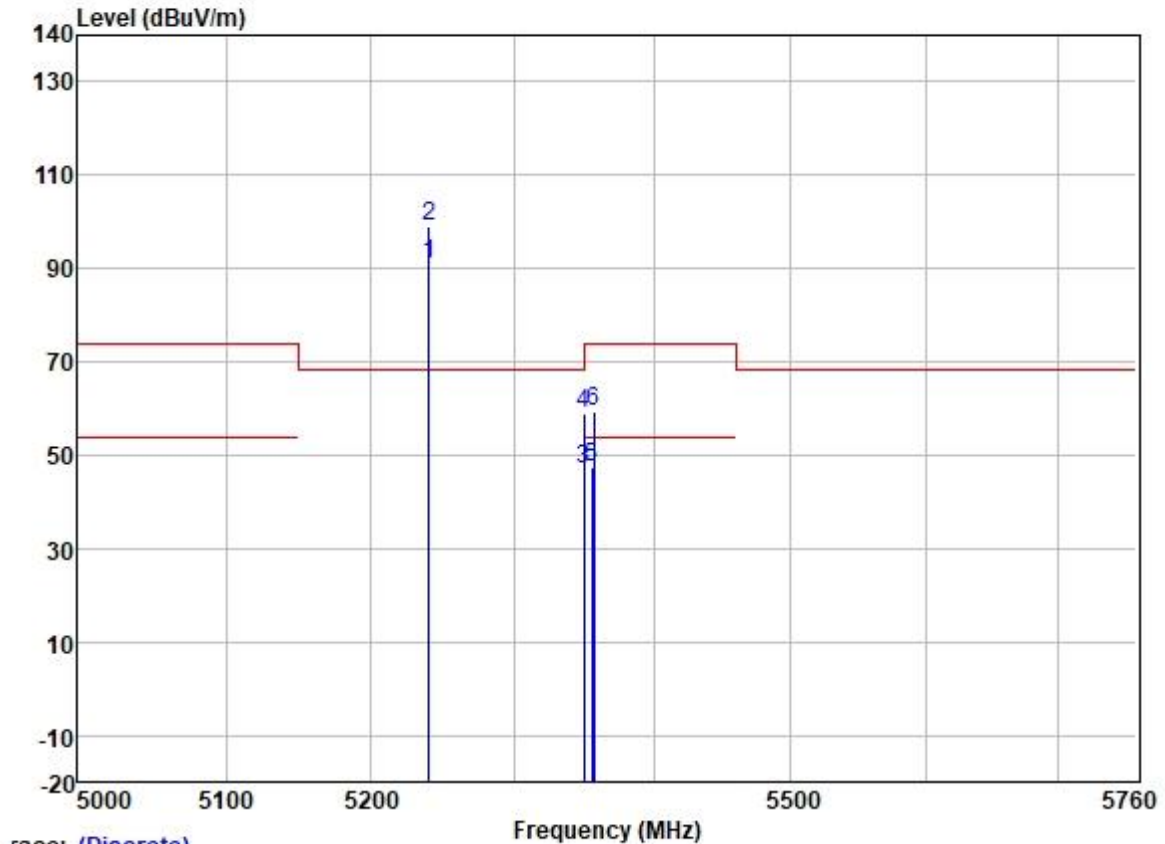
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.657	63.12	31.72	5.62	36.86	63.60	74.00	-10.40	VERTICAL	Peak
2	5148.857	49.59	31.72	5.62	36.86	50.07	54.00	-3.93	VERTICAL	Average
3	5149.980	49.69	31.72	5.62	36.86	50.17	54.00	-3.83	VERTICAL	Average
4	5149.980	62.47	31.72	5.62	36.86	62.95	74.00	-11.05	VERTICAL	Peak
5	5180.000	88.00	31.73	5.61	36.87	88.47	-----	-----	VERTICAL	Average
6 *	5180.000	96.45	31.73	5.61	36.87	96.92	68.20	28.72	VERTICAL	Peak

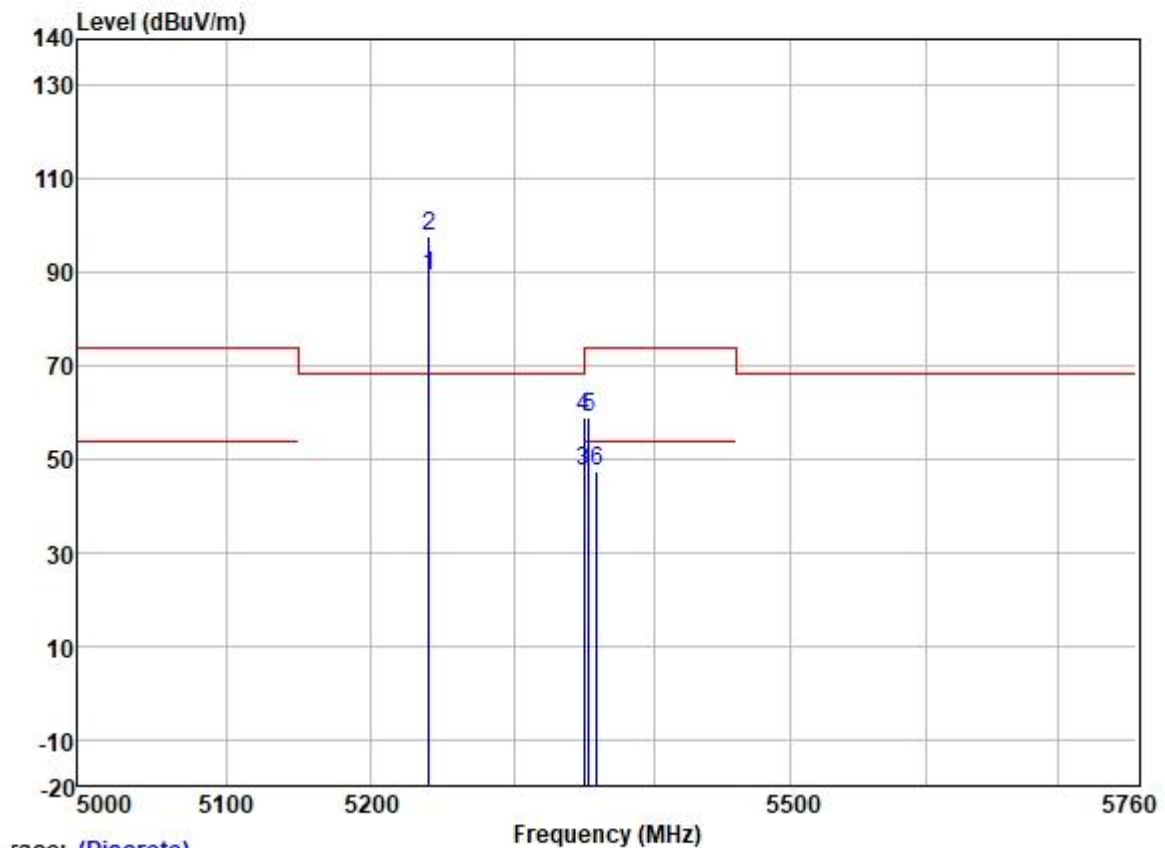
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	90.30	31.75	5.74	36.87	90.92	-----	-----	HORIZONTAL Average
2 *	5240.000	98.34	31.75	5.74	36.87	98.96	68.20	30.76	HORIZONTAL Peak
3	5350.020	46.13	31.77	6.05	36.88	47.07	54.00	-6.93	HORIZONTAL Average
4	5350.020	57.84	31.77	6.05	36.88	58.78	74.00	-15.22	HORIZONTAL Peak
5	5355.321	46.54	31.78	6.03	36.88	47.47	54.00	-6.53	HORIZONTAL Average
6	5357.164	58.38	31.78	6.03	36.88	59.31	74.00	-14.69	HORIZONTAL Peak

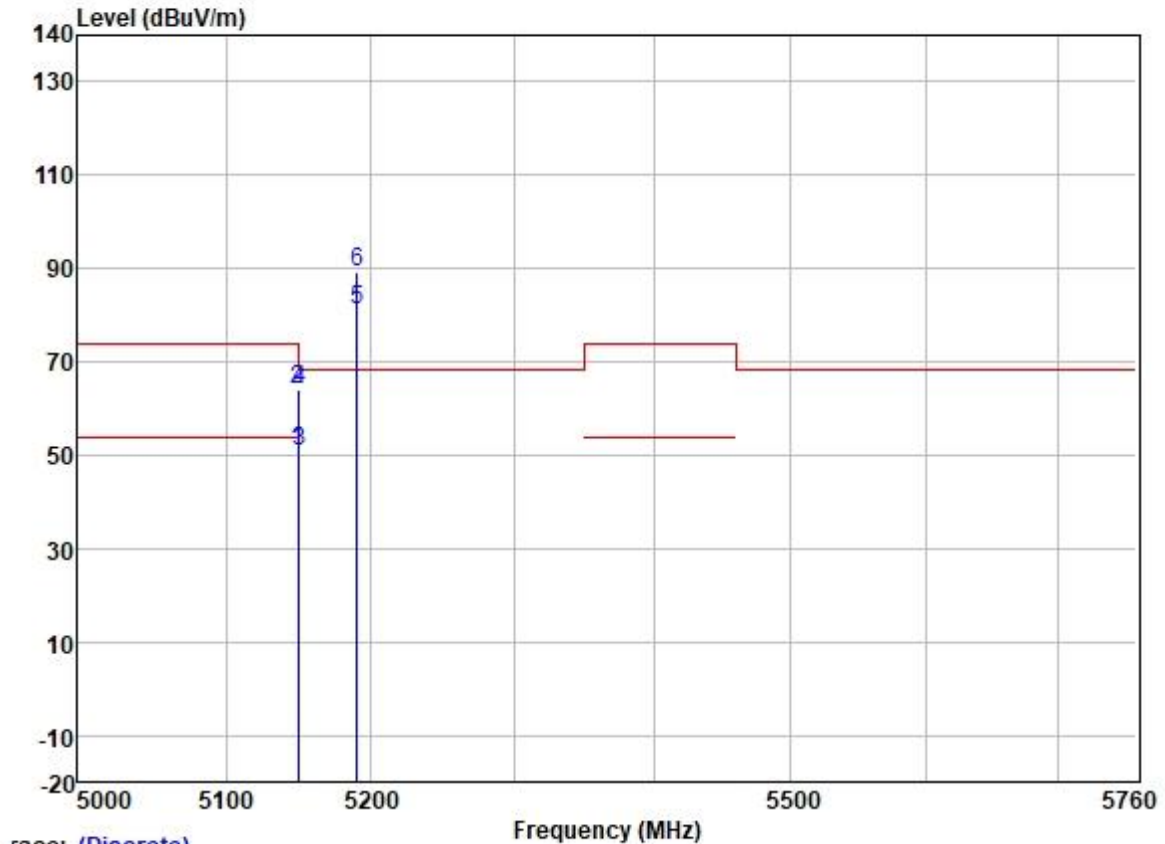
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

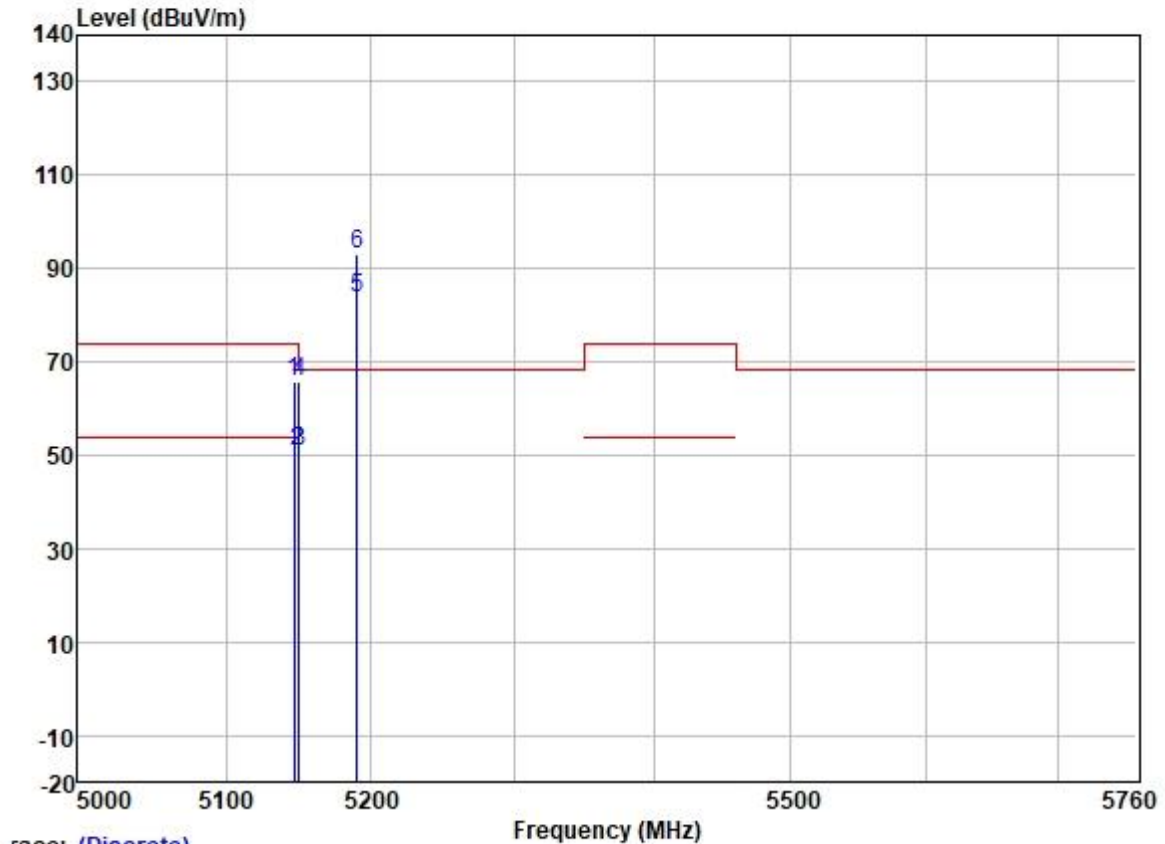
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	88.57	31.75	5.74	36.87	89.19	-----	VERTICAL	Average
2 *	5240.000	96.99	31.75	5.74	36.87	97.61	68.20	29.41 VERTICAL	Peak
3	5350.020	46.51	31.77	6.05	36.88	47.45	54.00	-6.55 VERTICAL	Average
4	5350.020	57.87	31.77	6.05	36.88	58.81	74.00	-15.19 VERTICAL	Peak
5	5353.620	57.91	31.77	6.05	36.88	58.85	74.00	-15.15 VERTICAL	Peak
6	5358.865	46.52	31.78	6.03	36.88	47.45	54.00	-6.55 VERTICAL	Average

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



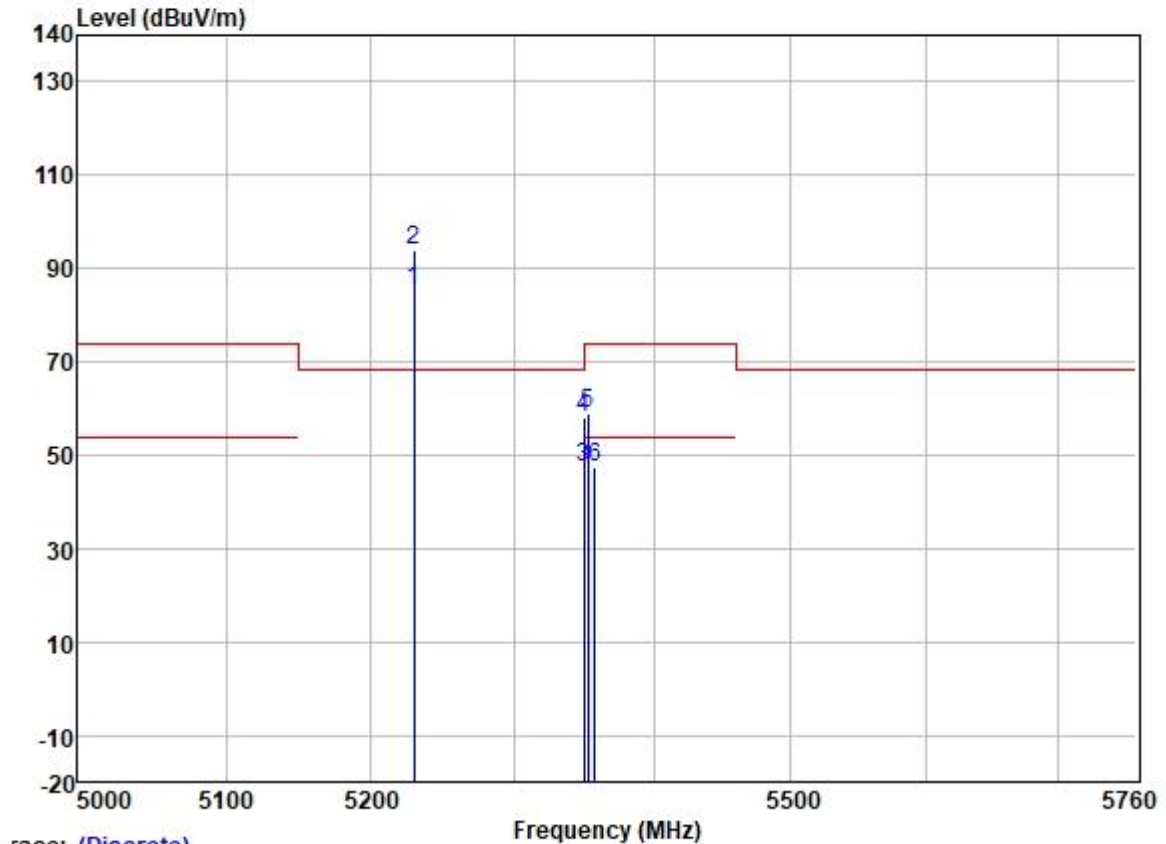
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5149.222	50.42	31.72	5.62	36.86	50.90	54.00	-3.10	HORIZONTAL	Average
2	5149.222	63.36	31.72	5.62	36.86	63.84	74.00	-10.16	HORIZONTAL	Peak
3	5149.980	50.25	31.72	5.62	36.86	50.73	54.00	-3.27	HORIZONTAL	Average
4	5149.980	63.54	31.72	5.62	36.86	64.02	74.00	-9.98	HORIZONTAL	Peak
5	5190.000	80.70	31.73	5.60	36.87	81.16	-----	-----	HORIZONTAL	Average
6 *	5190.000	88.92	31.73	5.60	36.87	89.38	68.20	21.18	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; 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	5146.468	65.33	31.72	5.62	36.86	65.81	74.00	-8.19	VERTICAL
2	5149.102	50.36	31.72	5.62	36.86	50.84	54.00	-3.16	VERTICAL
3	5149.980	50.52	31.72	5.62	36.86	51.00	54.00	-3.00	VERTICAL
4	5149.980	65.10	31.72	5.62	36.86	65.58	74.00	-8.42	VERTICAL
5	5190.000	83.40	31.73	5.60	36.87	83.86	-----	-----	VERTICAL
6 *	5190.000	92.61	31.73	5.60	36.87	93.07	68.20	24.87	VERTICAL

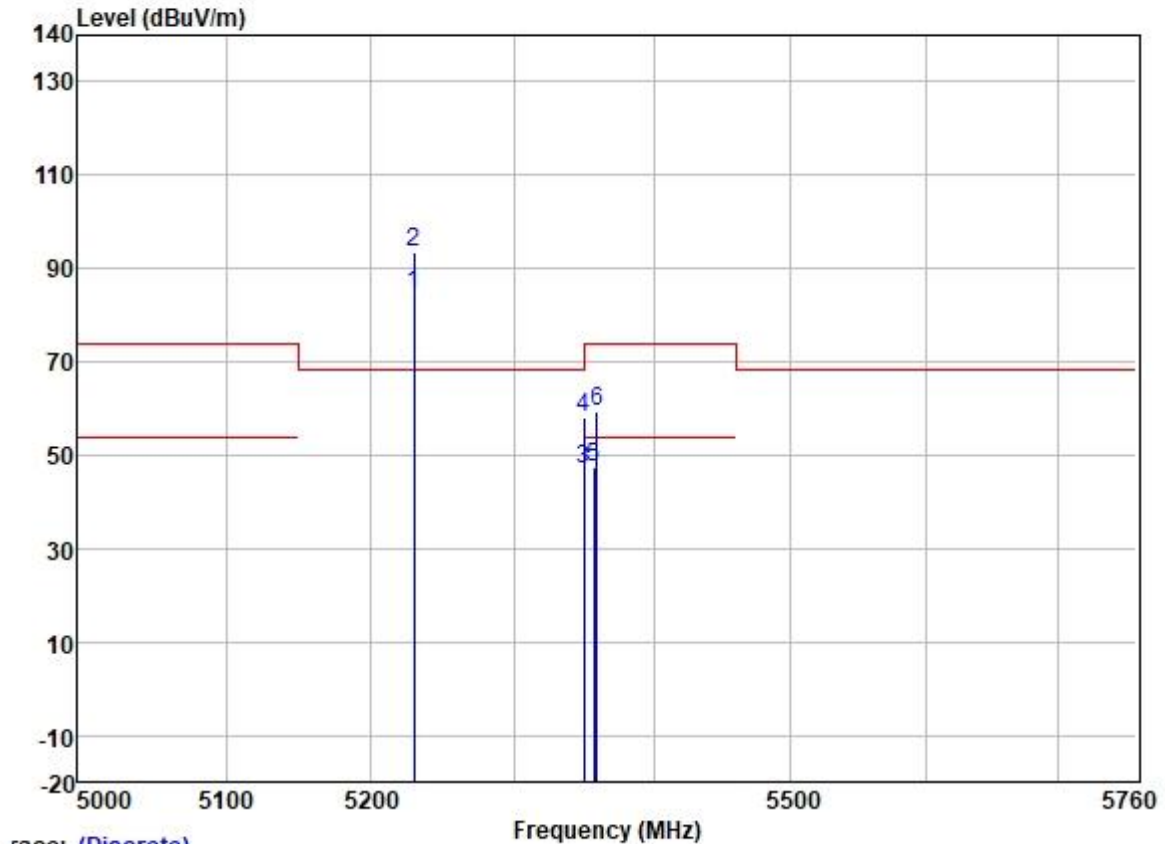
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

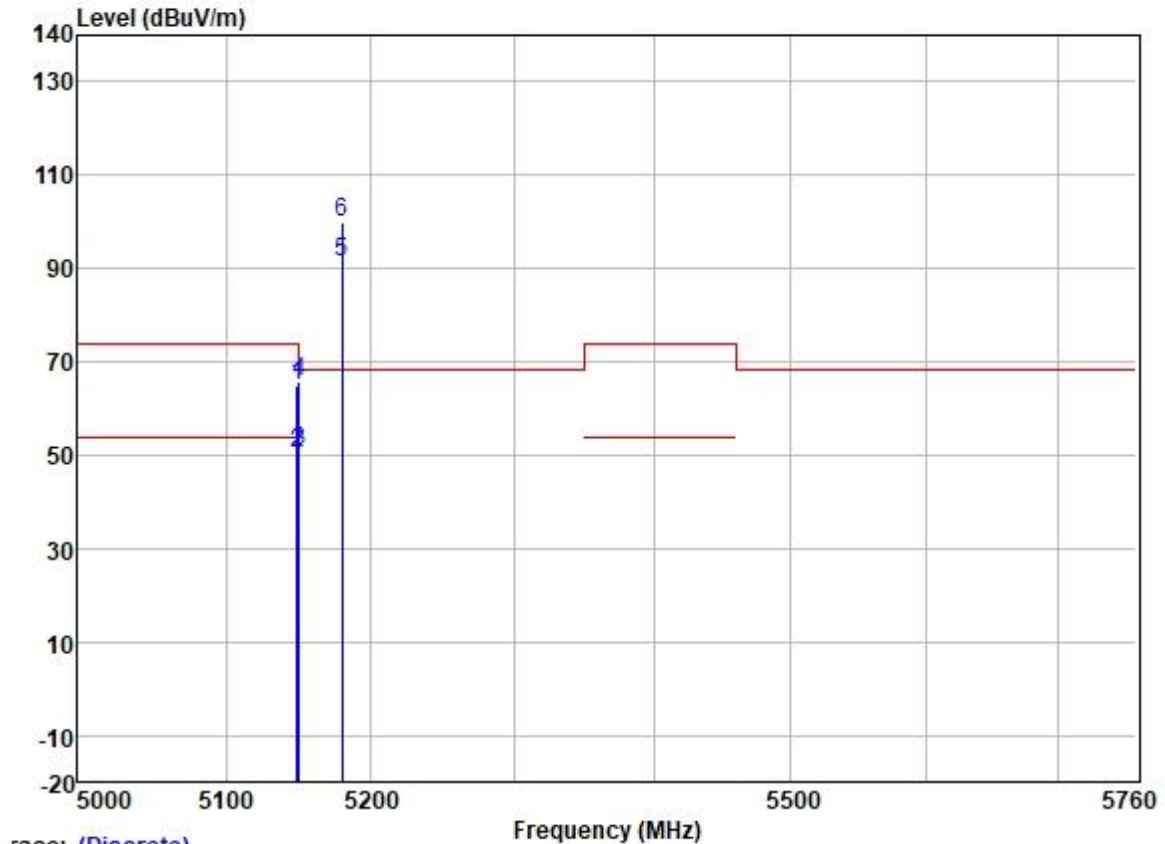
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	84.95	31.74	5.70	36.87	85.52	-----	-----	HORIZONTAL Average
2 *	5230.000	93.24	31.74	5.70	36.87	93.81	68.20	25.61	HORIZONTAL Peak
3	5350.020	46.34	31.77	6.05	36.88	47.28	54.00	-6.72	HORIZONTAL Average
4	5350.020	57.30	31.77	6.05	36.88	58.24	74.00	-15.76	HORIZONTAL Peak
5	5352.695	58.15	31.77	6.05	36.88	59.09	74.00	-14.91	HORIZONTAL Peak
6	5357.889	46.48	31.78	6.03	36.88	47.41	54.00	-6.59	HORIZONTAL Average

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



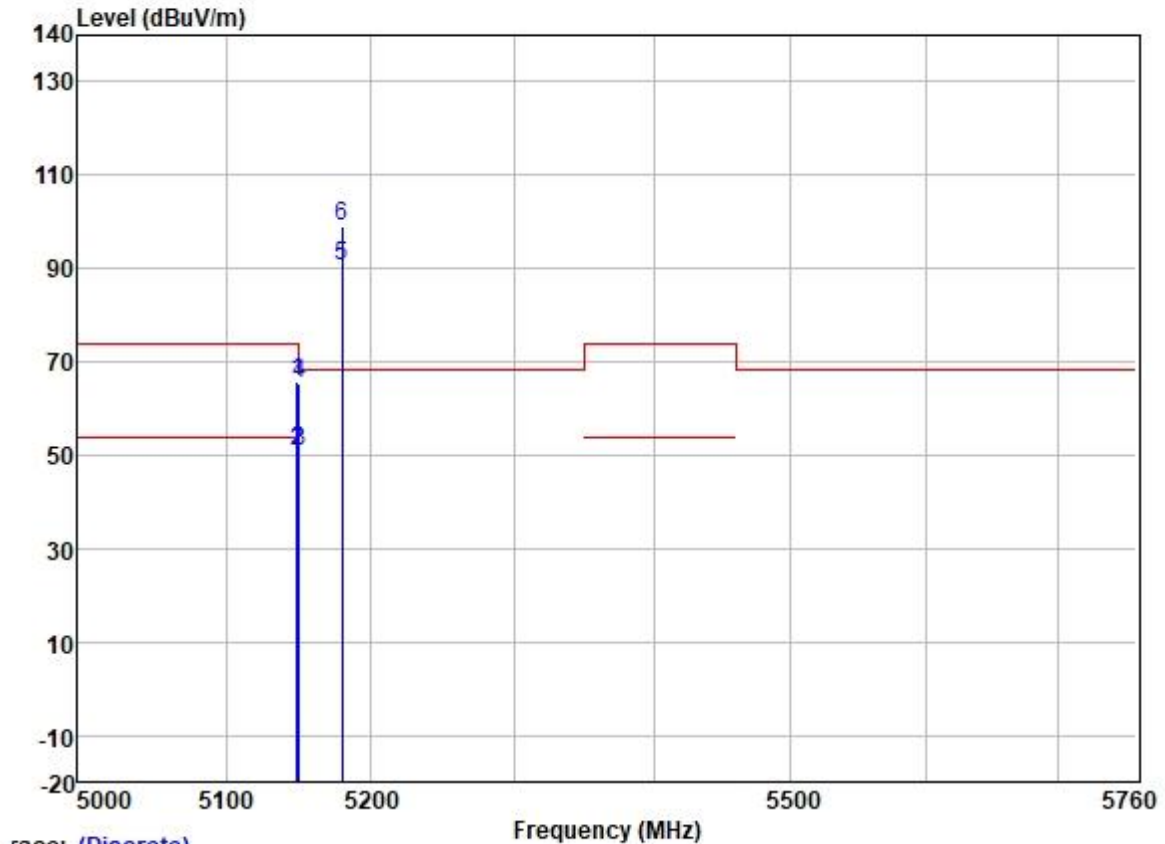
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	83.98	31.74	5.70	36.87	84.55	-----	VERTICAL	Average
2 *	5230.000	92.76	31.74	5.70	36.87	93.33	68.20	25.13 VERTICAL	Peak
3	5350.020	46.13	31.77	6.05	36.88	47.07	54.00	-6.93 VERTICAL	Average
4	5350.020	57.20	31.77	6.05	36.88	58.14	74.00	-15.86 VERTICAL	Peak
5	5356.915	46.45	31.78	6.03	36.88	47.38	54.00	-6.62 VERTICAL	Average
6	5359.025	58.37	31.78	6.03	36.88	59.30	74.00	-14.70 VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



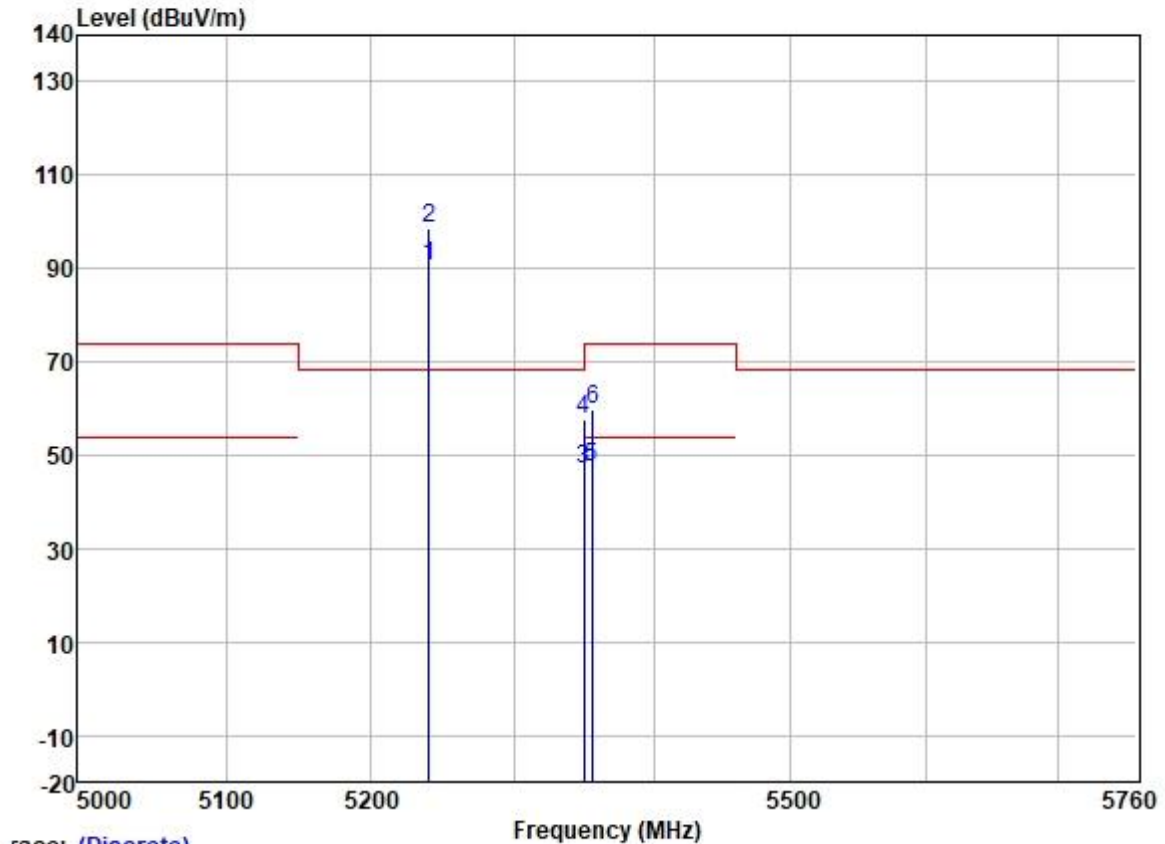
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.458	64.38	31.72	5.62	36.86	64.86	74.00	-9.14	HORIZONTAL	Peak
2	5149.357	50.10	31.72	5.62	36.86	50.58	54.00	-3.42	HORIZONTAL	Average
3	5149.980	50.44	31.72	5.62	36.86	50.92	54.00	-3.08	HORIZONTAL	Average
4	5149.980	65.21	31.72	5.62	36.86	65.69	74.00	-8.31	HORIZONTAL	Peak
5	5180.000	91.09	31.73	5.61	36.87	91.56	-----	-----	HORIZONTAL	Average
6 *	5180.000	99.61	31.73	5.61	36.87	100.08	68.20	31.88	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; 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	5148.857	65.27	31.72	5.62	36.86	65.75	74.00	-8.25	VERTICAL
2	5149.458	50.18	31.72	5.62	36.86	50.66	54.00	-3.34	VERTICAL
3	5149.980	50.43	31.72	5.62	36.86	50.91	54.00	-3.09	VERTICAL
4	5149.980	64.67	31.72	5.62	36.86	65.15	74.00	-8.85	VERTICAL
5	5180.000	90.10	31.73	5.61	36.87	90.57	-----	-----	VERTICAL
6 *	5180.000	98.40	31.73	5.61	36.87	98.87	68.20	30.67	VERTICAL

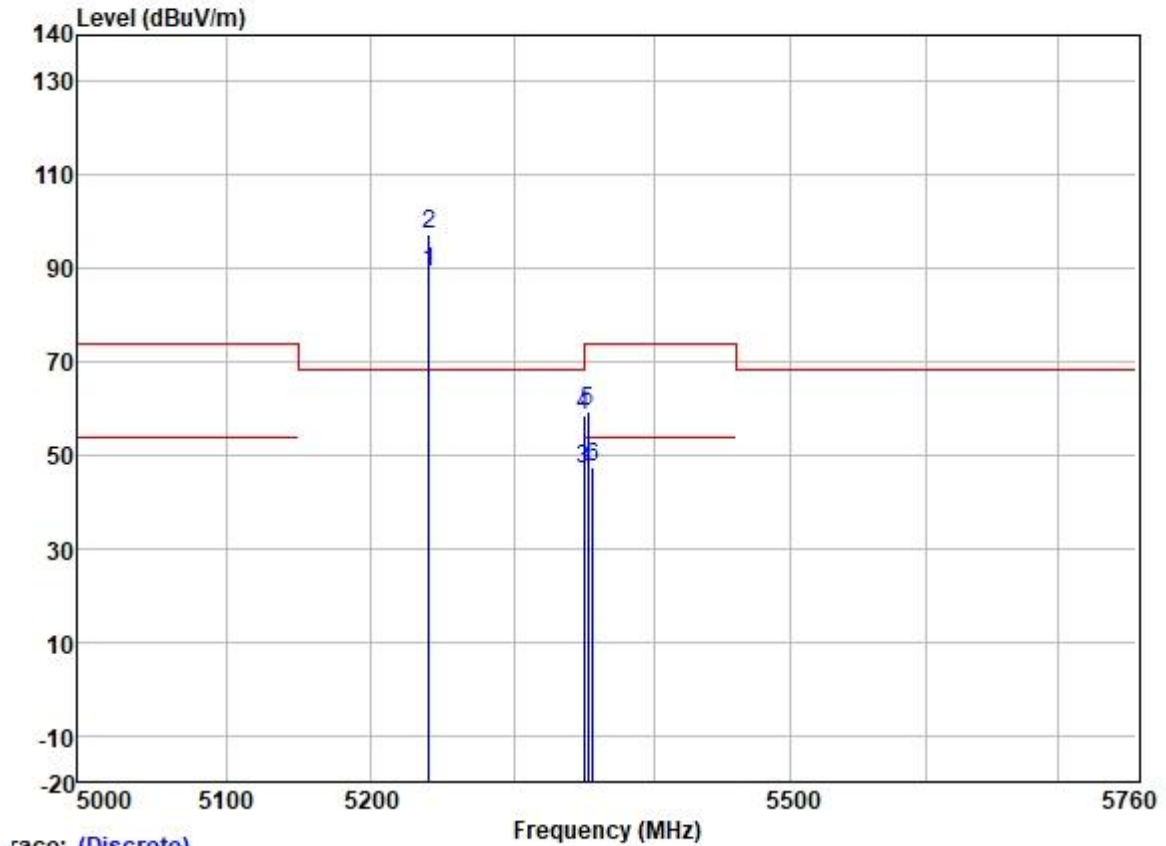
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

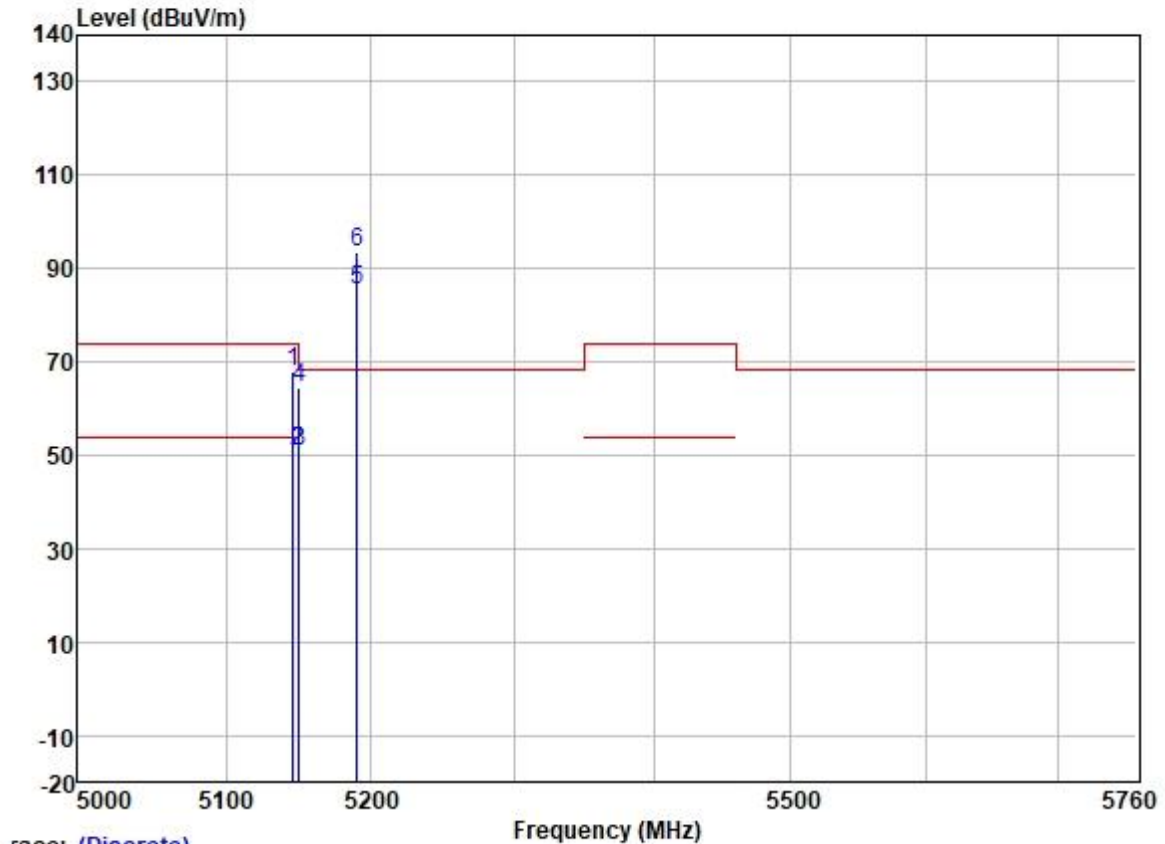
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	90.08	31.75	5.74	36.87	90.70	-----	-----	HORIZONTAL Average
2 *	5240.000	98.07	31.75	5.74	36.87	98.69	68.20	30.49	HORIZONTAL Peak
3	5350.020	46.26	31.77	6.05	36.88	47.20	54.00	-6.80	HORIZONTAL Average
4	5350.020	56.78	31.77	6.05	36.88	57.72	74.00	-16.28	HORIZONTAL Peak
5	5355.321	46.46	31.78	6.03	36.88	47.39	54.00	-6.61	HORIZONTAL Average
6	5356.313	58.72	31.78	6.03	36.88	59.65	74.00	-14.35	HORIZONTAL Peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	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	5240.000	88.61	31.75	5.74	36.87	89.23	-----	VERTICAL	Average
2 *	5240.000	96.83	31.75	5.74	36.87	97.45	68.20	VERTICAL	Peak
3	5350.020	46.23	31.77	6.05	36.88	47.17	54.00	VERTICAL	Average
4	5350.020	57.77	31.77	6.05	36.88	58.71	74.00	VERTICAL	Peak
5	5352.628	58.47	31.77	6.05	36.88	59.41	74.00	VERTICAL	Peak
6	5356.029	46.37	31.78	6.03	36.88	47.30	54.00	VERTICAL	Average

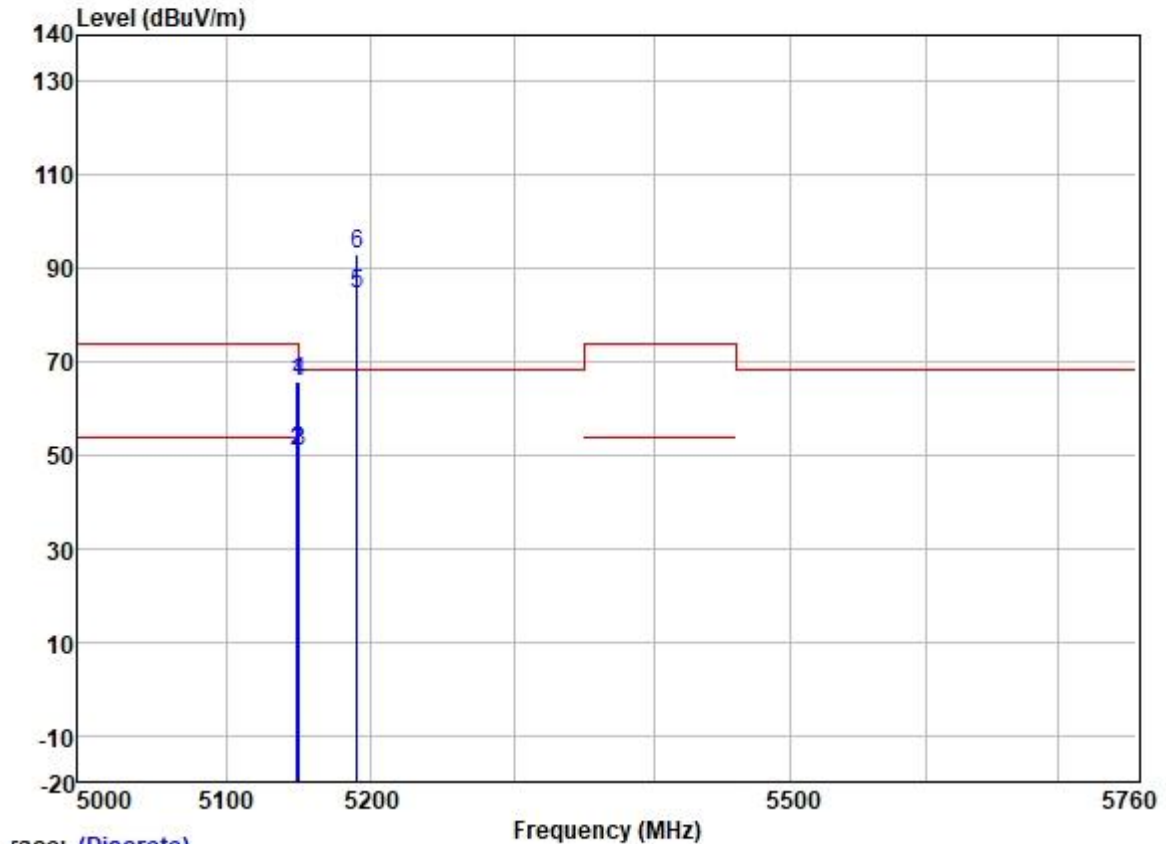
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

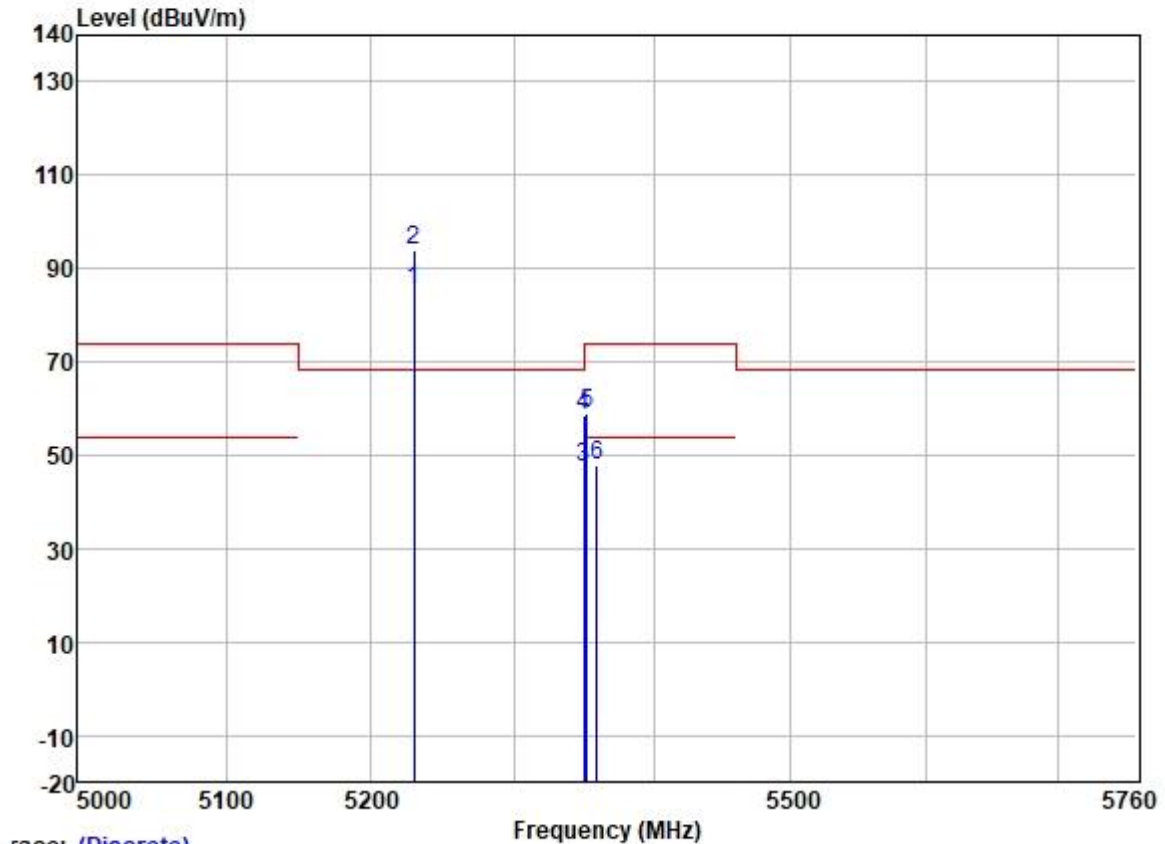
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5145.870	67.31	31.72	5.62	36.86	67.79	74.00	-6.21	HORIZONTAL Peak
2	5149.461	50.40	31.72	5.62	36.86	50.88	54.00	-3.12	HORIZONTAL Average
3	5149.980	50.52	31.72	5.62	36.86	51.00	54.00	-3.00	HORIZONTAL Average
4	5149.980	64.15	31.72	5.62	36.86	64.63	74.00	-9.37	HORIZONTAL Peak
5	5190.000	85.14	31.73	5.60	36.87	85.60	-----	-----	HORIZONTAL Average
6 *	5190.000	93.13	31.73	5.60	36.87	93.59	68.20	25.39	HORIZONTAL Peak

Test Mode: 02; 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	5148.863	65.16	31.72	5.62	36.86	65.64	74.00	-8.36	VERTICAL
2	5149.342	50.23	31.72	5.62	36.86	50.71	54.00	-3.29	VERTICAL
3	5149.980	50.47	31.72	5.62	36.86	50.95	54.00	-3.05	VERTICAL
4	5149.980	65.30	31.72	5.62	36.86	65.78	74.00	-8.22	VERTICAL
5	5190.000	84.18	31.73	5.60	36.87	84.64	-----	-----	VERTICAL
6 *	5190.000	92.77	31.73	5.60	36.87	93.23	68.20	25.03	VERTICAL

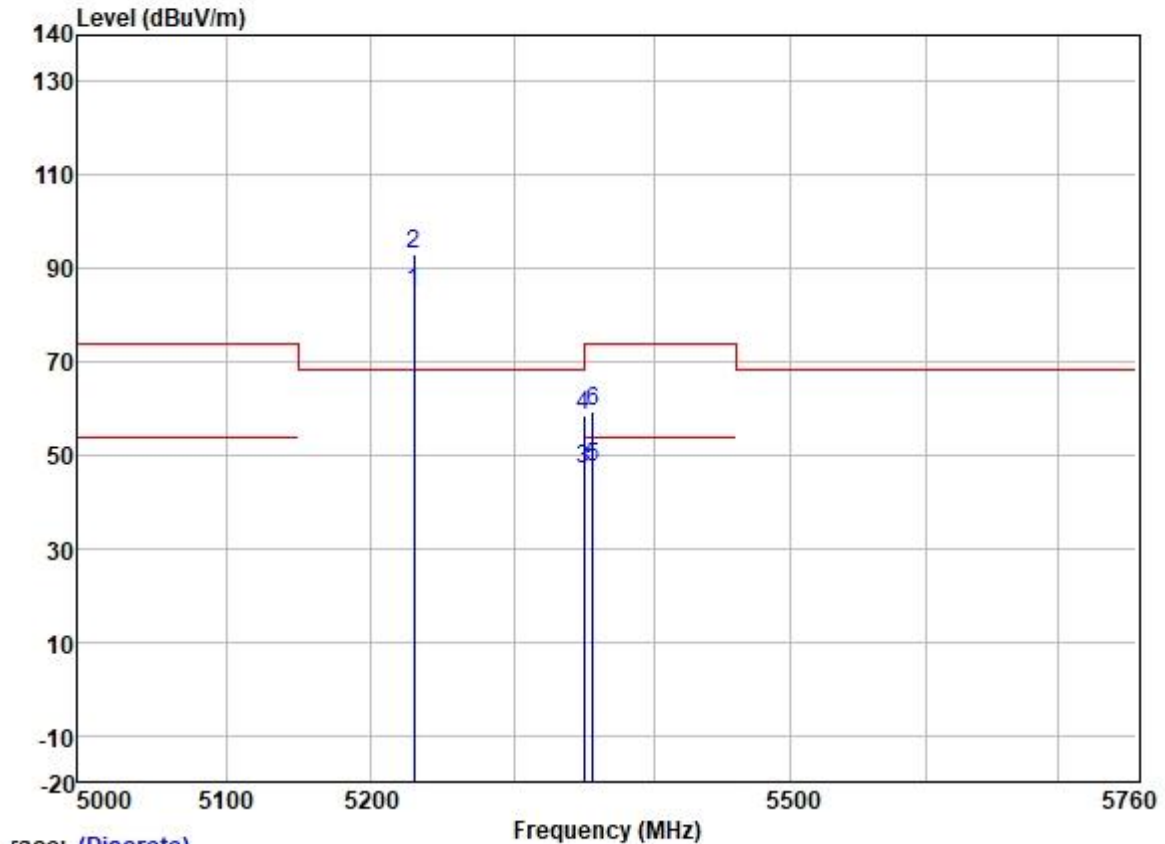
Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

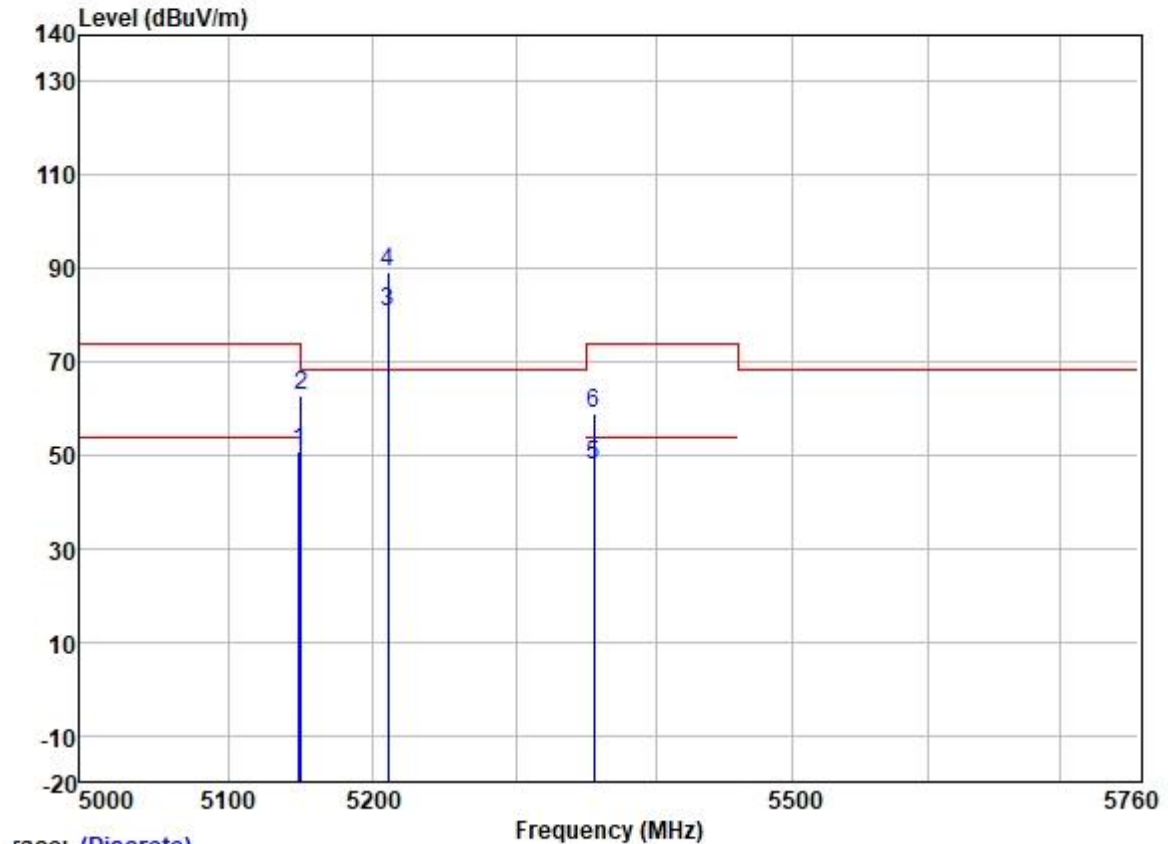
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	84.91	31.74	5.70	36.87	85.48	-----	-----	HORIZONTAL Average
2 *	5230.000	93.54	31.74	5.70	36.87	94.11	68.20	25.91	HORIZONTAL Peak
3	5350.020	46.31	31.77	6.05	36.88	47.25	54.00	-6.75	HORIZONTAL Average
4	5350.020	57.53	31.77	6.05	36.88	58.47	74.00	-15.53	HORIZONTAL Peak
5	5352.046	58.04	31.77	6.05	36.88	58.98	74.00	-15.02	HORIZONTAL Peak
6	5359.350	46.72	31.78	6.03	36.88	47.65	54.00	-6.35	HORIZONTAL Average

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



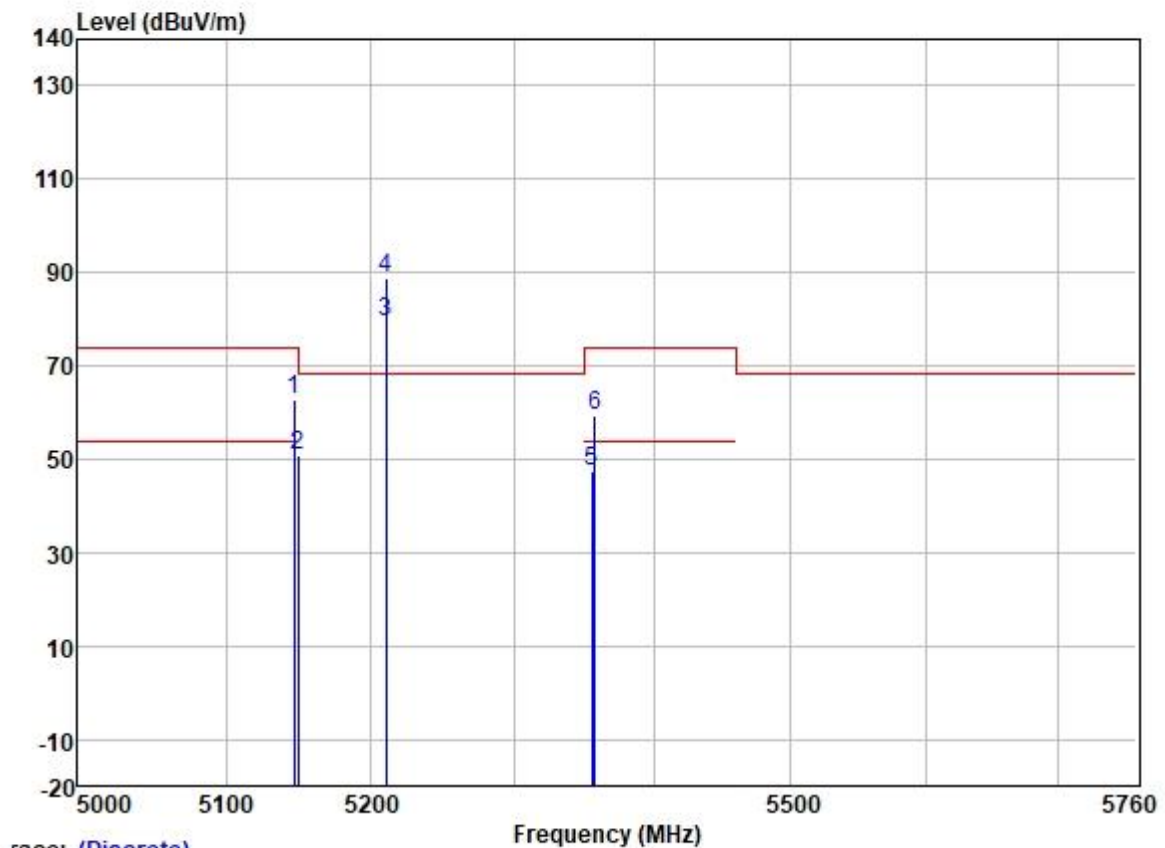
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	84.21	31.74	5.70	36.87	84.78	-----	-----	VERTICAL Average
2 *	5230.000	92.54	31.74	5.70	36.87	93.11	68.20	24.91	VERTICAL Peak
3	5350.020	46.21	31.77	6.05	36.88	47.15	54.00	-6.85	VERTICAL Average
4	5350.020	57.51	31.77	6.05	36.88	58.45	74.00	-15.55	VERTICAL Peak
5	5356.265	46.40	31.78	6.03	36.88	47.33	54.00	-6.67	VERTICAL Average
6	5356.428	58.47	31.78	6.03	36.88	59.40	74.00	-14.60	VERTICAL Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



		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	5148.667	50.48	31.72	5.62	36.86	50.96	54.00	-3.04	HORIZONTAL	Average
2	5149.947	62.21	31.72	5.62	36.86	62.69	74.00	-11.31	HORIZONTAL	Peak
3	5210.000	80.05	31.74	5.65	36.87	80.57	-----	-----	HORIZONTAL	Average
4 *	5210.000	88.65	31.74	5.65	36.87	89.17	68.20	20.97	HORIZONTAL	Peak
5	5355.471	46.75	31.78	6.03	36.88	47.68	54.00	-6.32	HORIZONTAL	Average
6	5355.471	58.15	31.78	6.03	36.88	59.08	74.00	-14.92	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

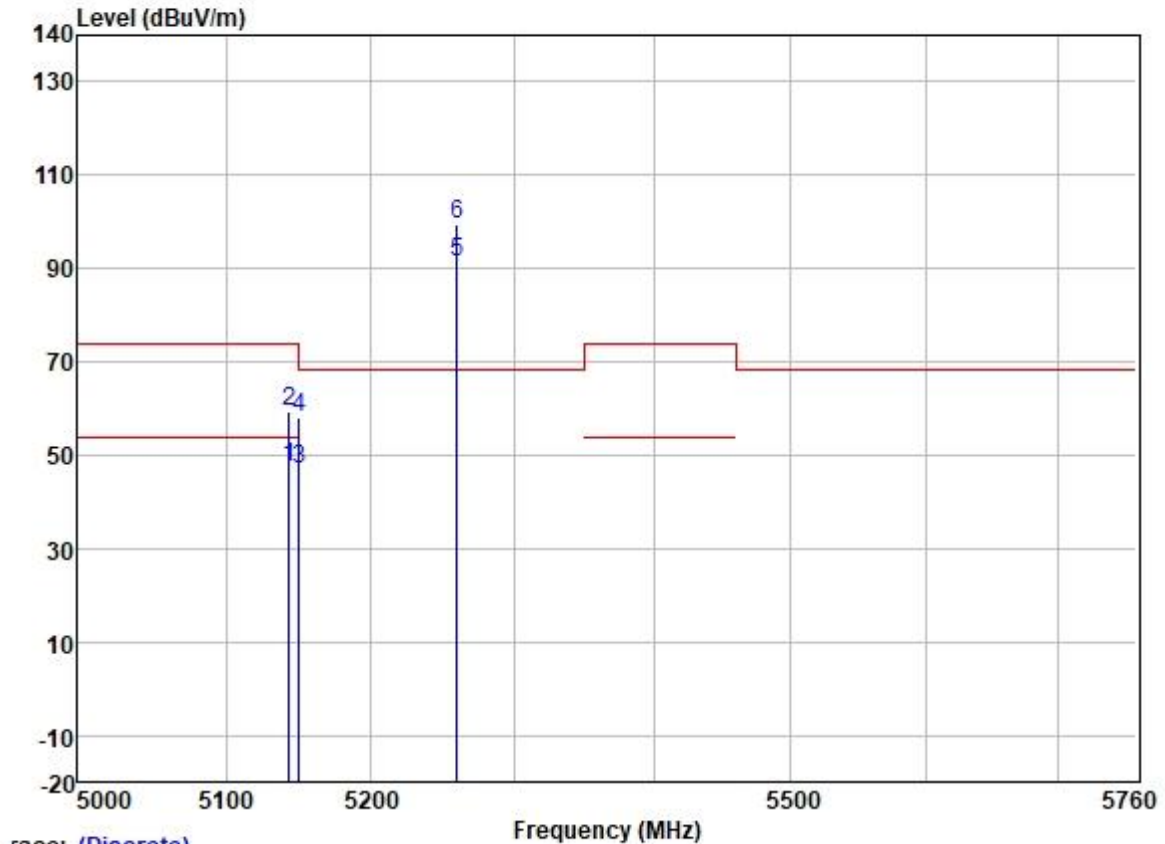


	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5146.875	62.27	31.72	5.62	36.86	62.75	74.00	-11.25	VERTICAL
2	5149.435	50.38	31.72	5.62	36.86	50.86	54.00	-3.14	VERTICAL
3	5210.000	79.10	31.74	5.65	36.87	79.62	-----	-----	VERTICAL
4 *	5210.000	88.35	31.74	5.65	36.87	88.87	68.20	20.67	VERTICAL
5	5355.737	46.60	31.78	6.03	36.88	47.53	54.00	-6.47	VERTICAL
6	5357.335	58.30	31.78	6.03	36.88	59.23	74.00	-14.77	VERTICAL



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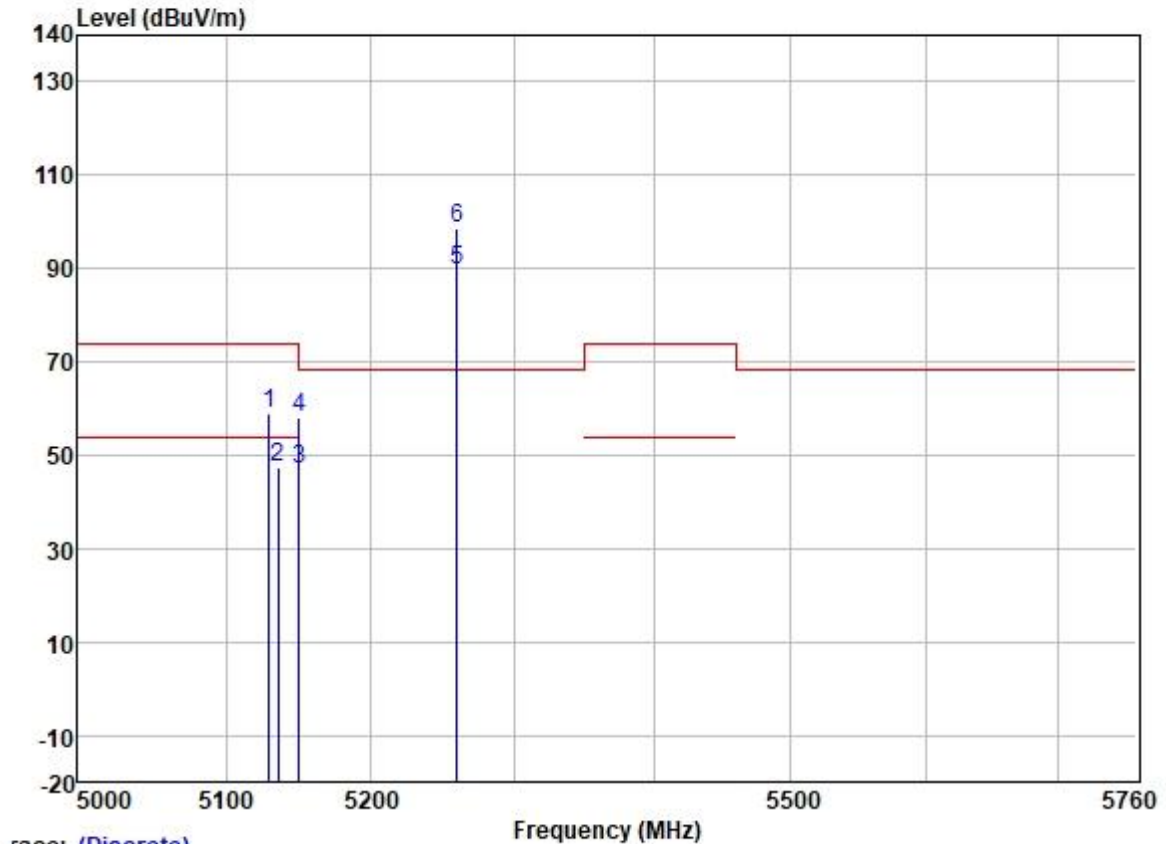
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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	5143.167	46.73	31.72	5.62	36.86	47.21	54.00	-6.79	HORIZONTAL Average
2	5143.167	59.08	31.72	5.62	36.86	59.56	74.00	-14.44	HORIZONTAL Peak
3	5149.980	46.44	31.72	5.62	36.86	46.92	54.00	-7.08	HORIZONTAL Average
4	5149.980	57.66	31.72	5.62	36.86	58.14	74.00	-15.86	HORIZONTAL Peak
5	5260.000	90.56	31.75	5.77	36.87	91.21	-----	-----	HORIZONTAL Average
6 *	5260.000	98.75	31.75	5.77	36.87	99.40	68.20	31.20	HORIZONTAL Peak

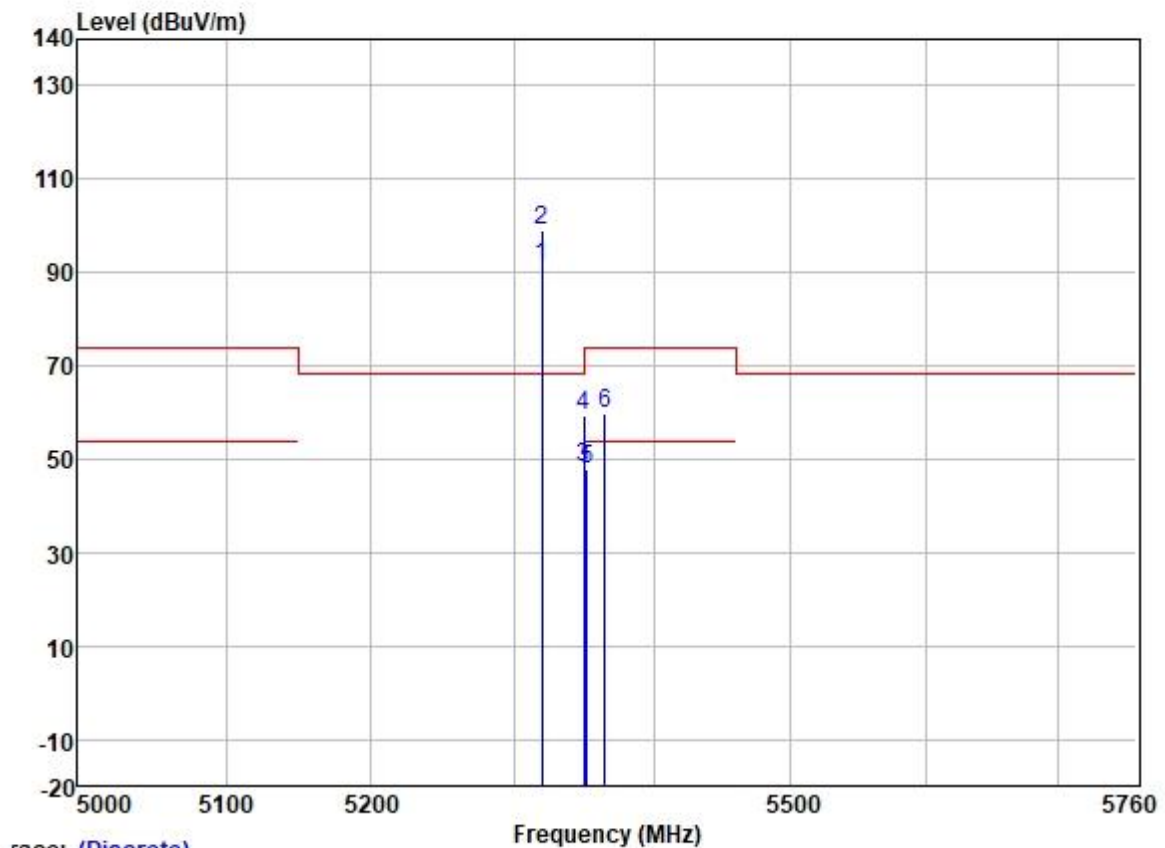
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1		5129.271	58.43	31.72	5.63	36.86	58.92	74.00	-15.08	VERTICAL	Peak
2		5135.502	46.91	31.72	5.63	36.86	47.40	54.00	-6.60	VERTICAL	Average
3		5149.980	46.44	31.72	5.62	36.86	46.92	54.00	-7.08	VERTICAL	Average
4		5149.980	57.61	31.72	5.62	36.86	58.09	74.00	-15.91	VERTICAL	Peak
5		5260.000	89.16	31.75	5.77	36.87	89.81	-----	-----	VERTICAL	Average
6	*	5260.000	97.79	31.75	5.77	36.87	98.44	68.20	30.24	VERTICAL	Peak

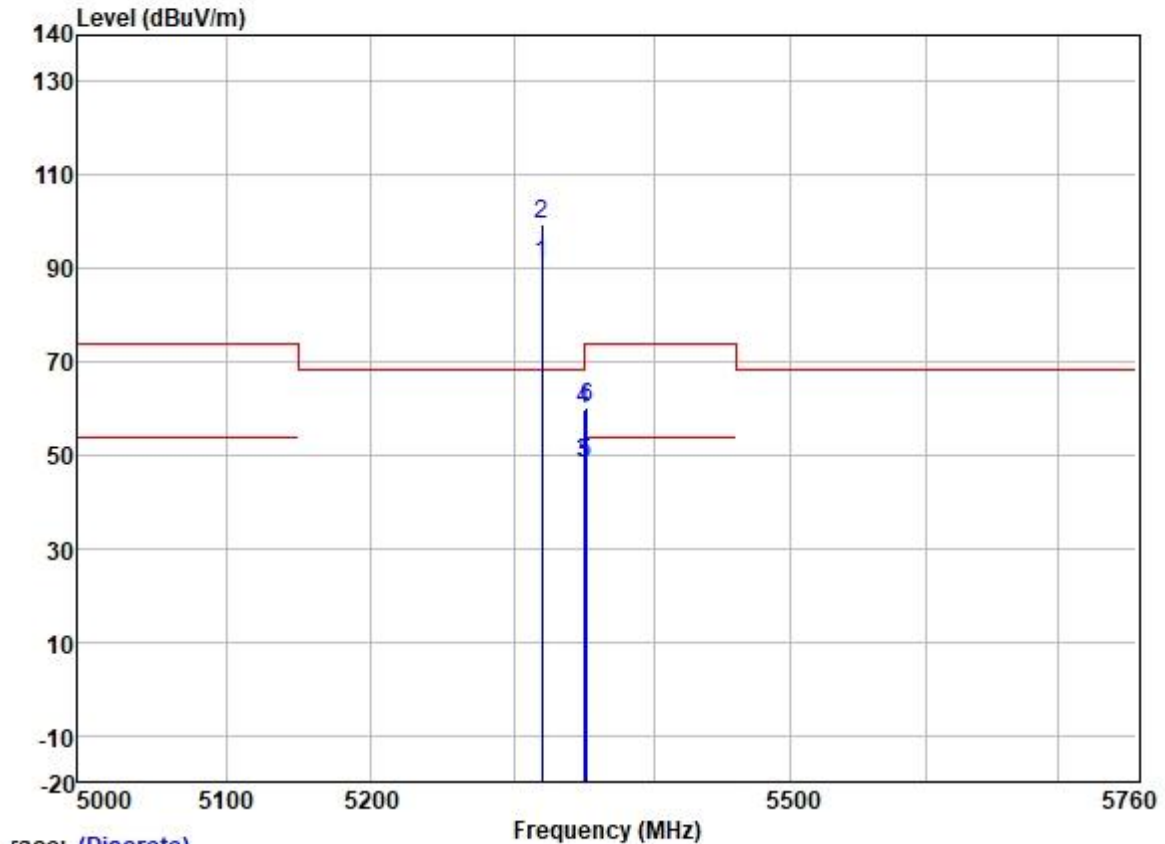
Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	90.20	31.77	6.08	36.88	91.17	-----	-----	HORIZONTAL	Average
2 *	5320.000	98.26	31.77	6.08	36.88	99.23	68.20	31.03	HORIZONTAL	Peak
3	5350.020	47.13	31.77	6.05	36.88	48.07	54.00	-5.93	HORIZONTAL	Average
4	5350.020	58.44	31.77	6.05	36.88	59.38	74.00	-14.62	HORIZONTAL	Peak
5	5351.867	47.08	31.77	6.05	36.88	48.02	54.00	-5.98	HORIZONTAL	Average
6	5364.486	58.97	31.78	6.03	36.88	59.90	74.00	-14.10	HORIZONTAL	Peak

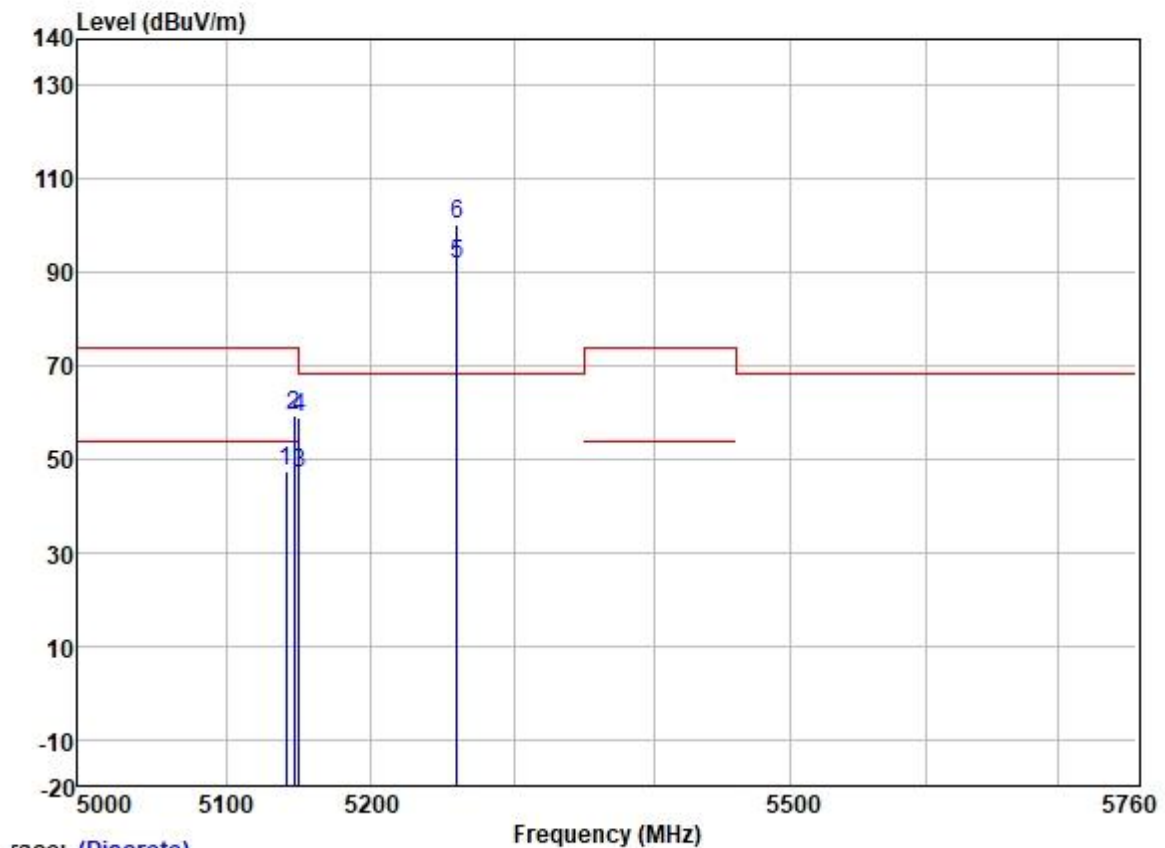
Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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	dB		
1	5320.000	89.78	31.77	6.08	36.88	90.75	-----	VERTICAL	Average
2 *	5320.000	98.62	31.77	6.08	36.88	99.59	68.20	VERTICAL	Peak
3	5350.020	47.29	31.77	6.05	36.88	48.23	54.00	VERTICAL	Average
4	5350.020	59.00	31.77	6.05	36.88	59.94	74.00	VERTICAL	Peak
5	5351.367	47.42	31.77	6.05	36.88	48.36	54.00	VERTICAL	Average
6	5351.767	59.20	31.77	6.05	36.88	60.14	74.00	VERTICAL	Peak

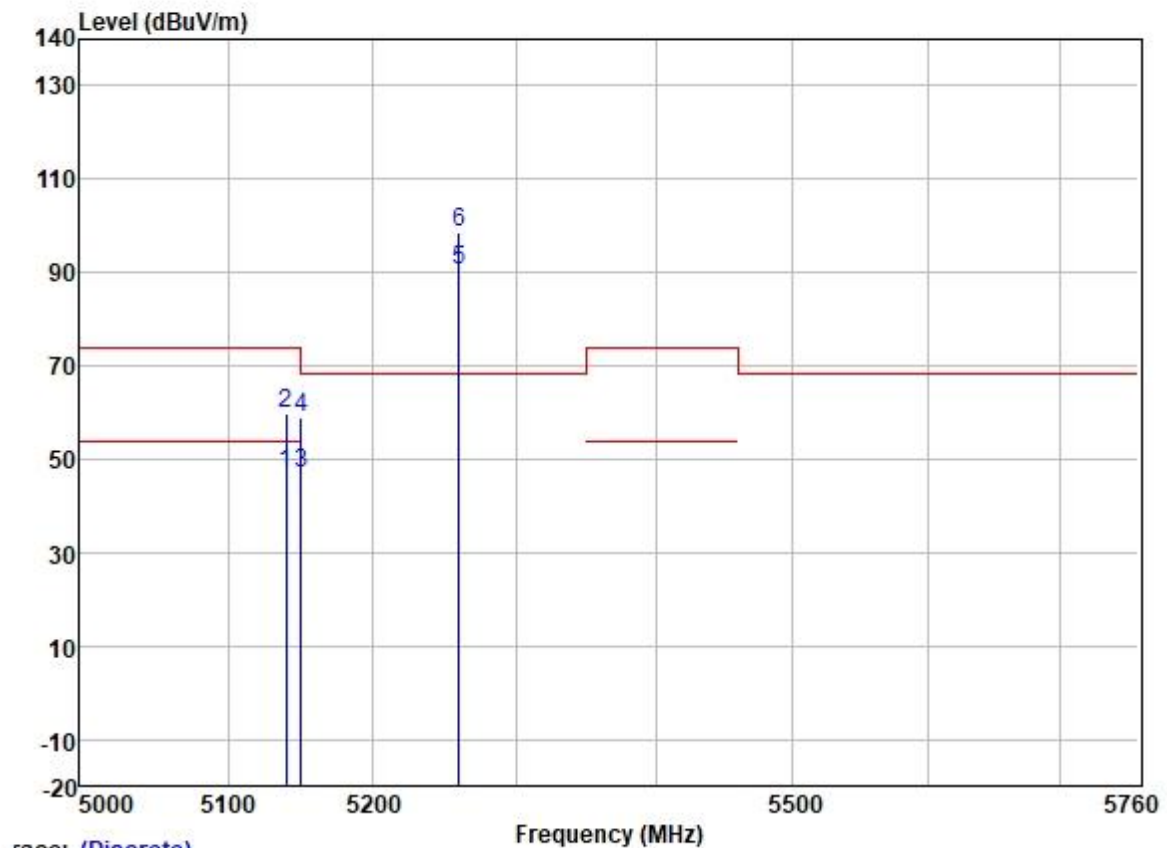
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

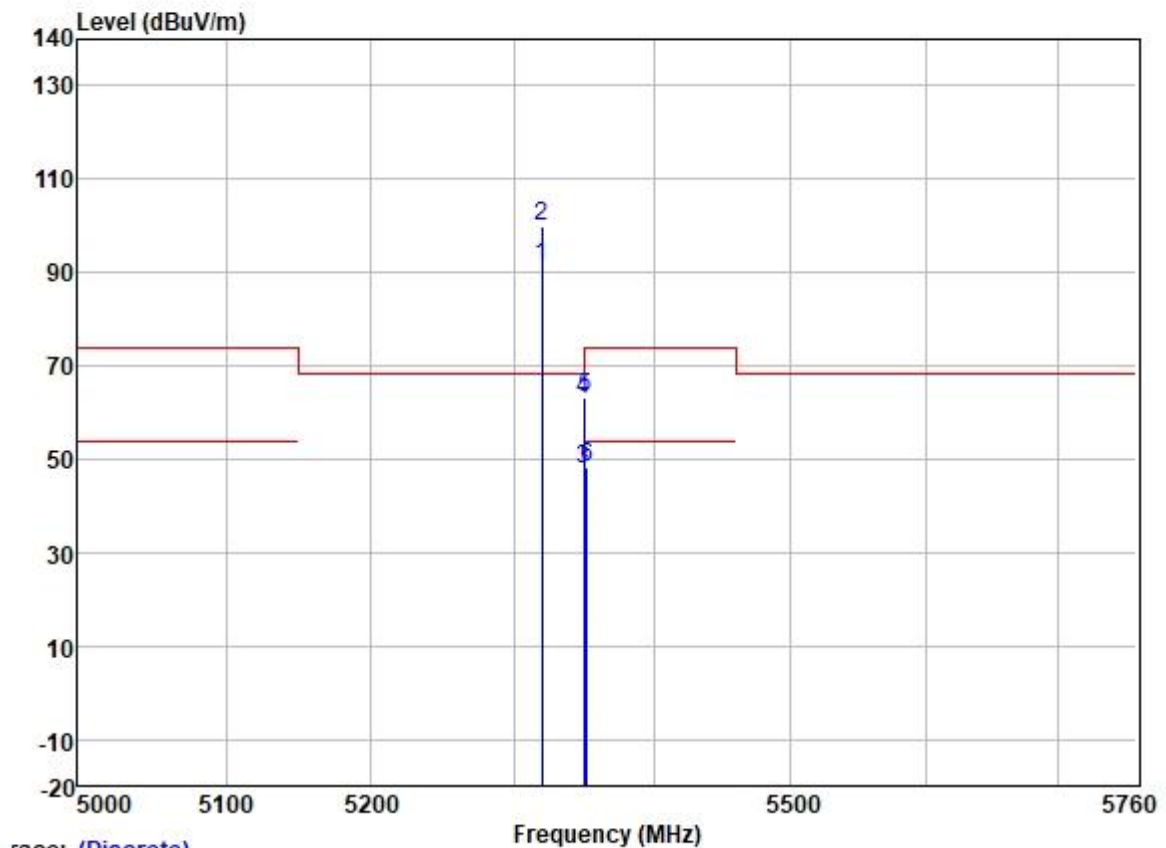
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5140.849	46.98	31.72	5.63	36.86	47.47	54.00	-6.53	HORIZONTAL Average
2	5146.379	58.95	31.72	5.62	36.86	59.43	74.00	-14.57	HORIZONTAL Peak
3	5149.980	46.49	31.72	5.62	36.86	46.97	54.00	-7.03	HORIZONTAL Average
4	5149.980	58.43	31.72	5.62	36.86	58.91	74.00	-15.09	HORIZONTAL Peak
5	5260.000	91.09	31.75	5.77	36.87	91.74	-----	-----	HORIZONTAL Average
6 *	5260.000	99.62	31.75	5.77	36.87	100.27	68.20	32.07	HORIZONTAL Peak

Test Mode: 03; 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	5139.779	46.68	31.72	5.63	36.86	47.17	54.00	-6.83	VERTICAL	Average
2	5139.779	59.20	31.72	5.63	36.86	59.69	74.00	-14.31	VERTICAL	Peak
3	5149.980	46.61	31.72	5.62	36.86	47.09	54.00	-6.91	VERTICAL	Average
4	5149.980	58.35	31.72	5.62	36.86	58.83	74.00	-15.17	VERTICAL	Peak
5	5260.000	89.96	31.75	5.77	36.87	90.61	-----	-----	VERTICAL	Average
6 *	5260.000	98.11	31.75	5.77	36.87	98.76	68.20	30.56	VERTICAL	Peak

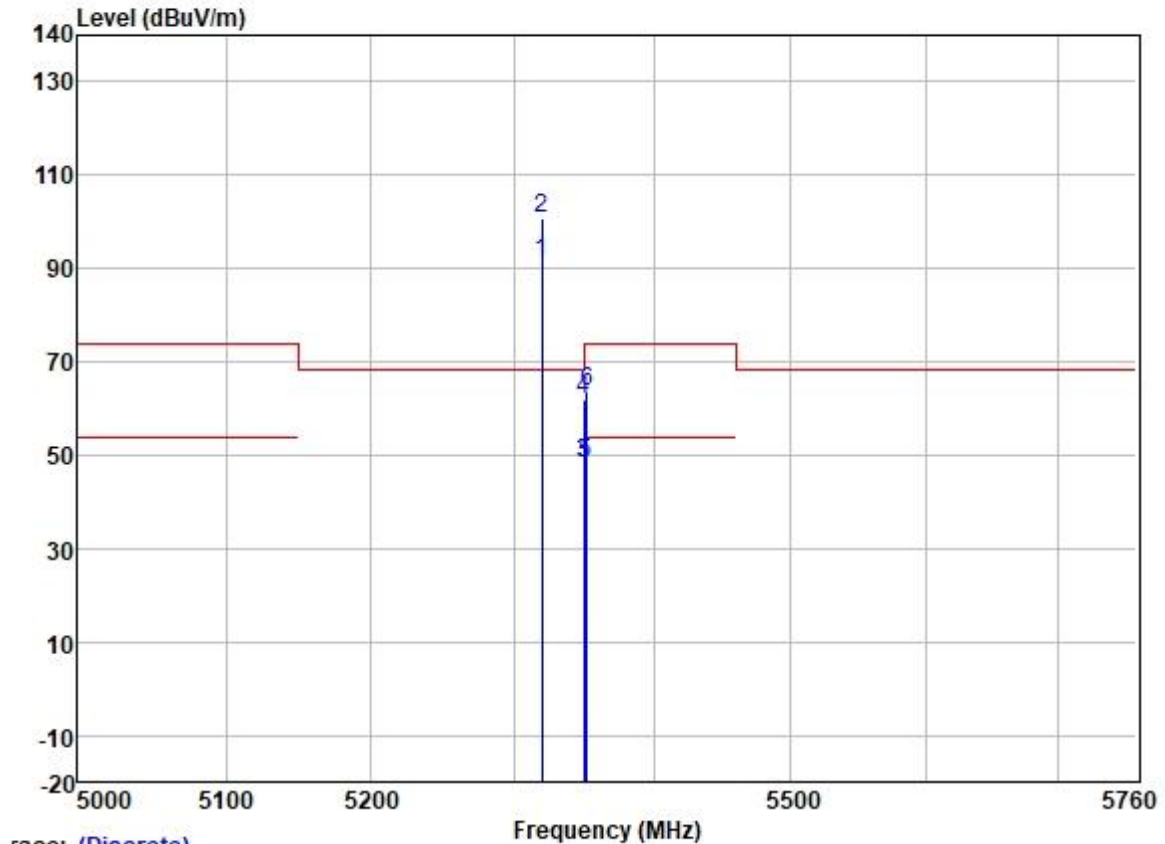
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	5320.000	90.51	31.77	6.08	36.88	91.48	-----	-----	HORIZONTAL Average
2 *	5320.000	98.90	31.77	6.08	36.88	99.87	68.20	31.67	HORIZONTAL Peak
3	5350.020	47.05	31.77	6.05	36.88	47.99	54.00	-6.01	HORIZONTAL Average
4	5350.020	61.66	31.77	6.05	36.88	62.60	74.00	-11.40	HORIZONTAL Peak
5	5350.667	62.46	31.77	6.05	36.88	63.40	74.00	-10.60	HORIZONTAL Peak
6	5351.667	47.23	31.77	6.05	36.88	48.17	54.00	-5.83	HORIZONTAL Average

Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

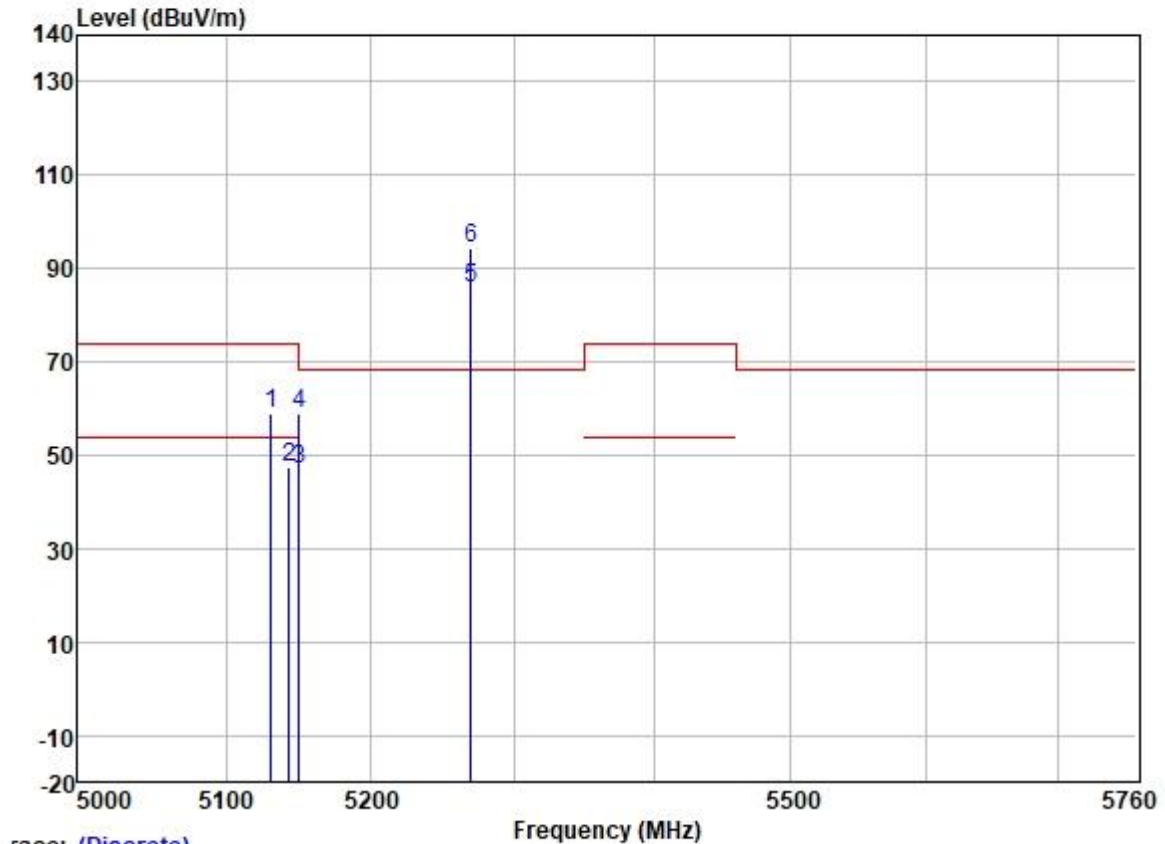
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5320.000	90.60	31.77	6.08	36.88	91.57	-----	VERTICAL	Average
2 *	5320.000	99.59	31.77	6.08	36.88	100.56	68.20	VERTICAL	Peak
3	5350.020	47.33	31.77	6.05	36.88	48.27	54.00	VERTICAL	Average
4	5350.020	61.03	31.77	6.05	36.88	61.97	74.00	VERTICAL	Peak
5	5351.167	47.42	31.77	6.05	36.88	48.36	54.00	VERTICAL	Average
6	5351.566	62.75	31.77	6.05	36.88	63.69	74.00	VERTICAL	Peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

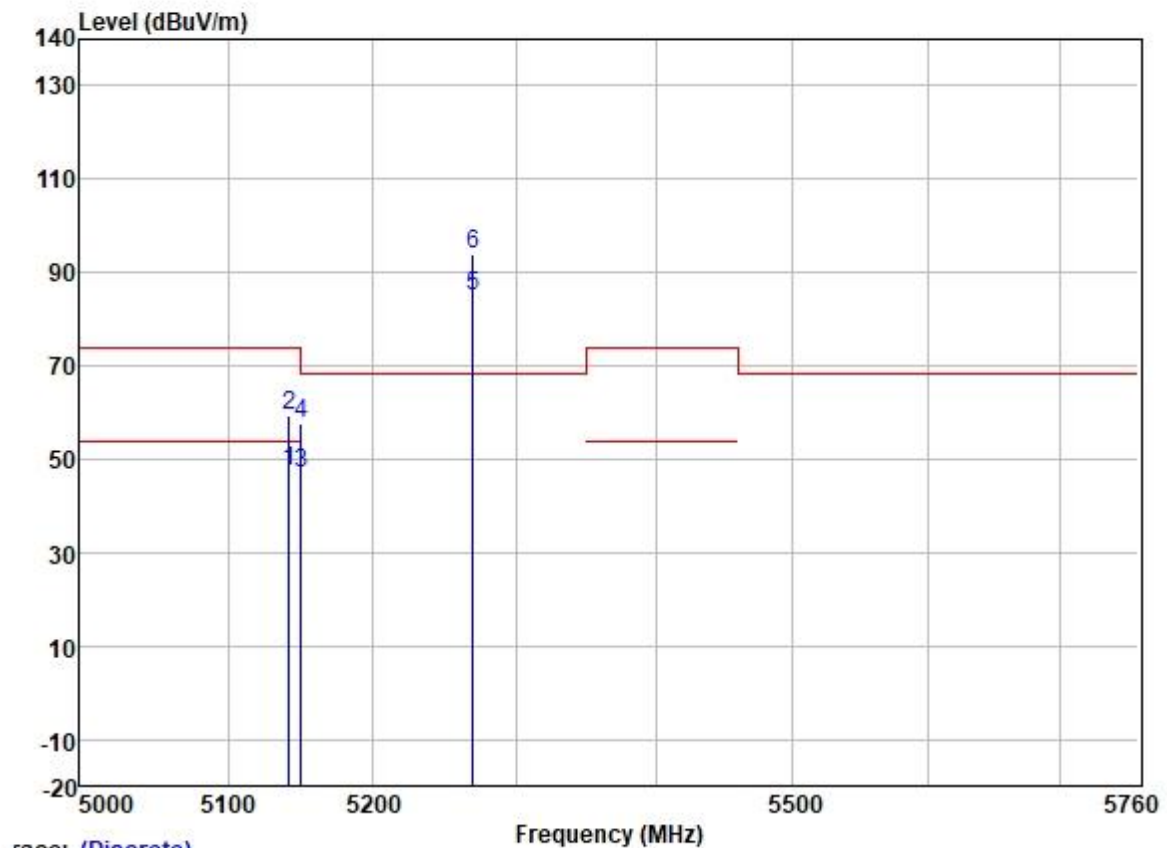
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5130.696	58.51	31.72	5.63	36.86	59.00	74.00	-15.00	HORIZONTAL Peak
2	5143.342	46.95	31.72	5.62	36.86	47.43	54.00	-6.57	HORIZONTAL Average
3	5149.980	46.61	31.72	5.62	36.86	47.09	54.00	-6.91	HORIZONTAL Average
4	5149.980	58.37	31.72	5.62	36.86	58.85	74.00	-15.15	HORIZONTAL Peak
5	5270.000	85.01	31.75	5.80	36.87	85.69	-----	-----	HORIZONTAL Average
6 *	5270.000	93.50	31.75	5.80	36.87	94.18	68.20	25.98	HORIZONTAL Peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

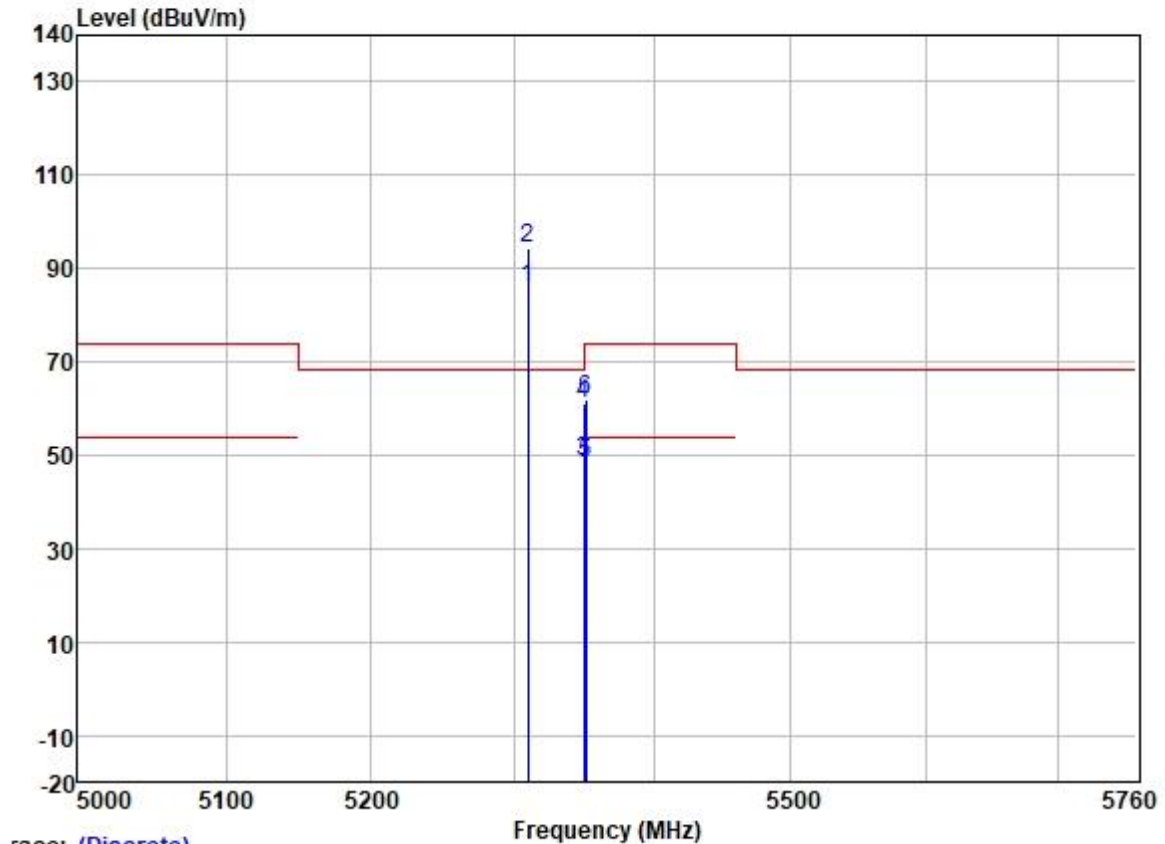
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	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5141.760	46.75	31.72	5.63	36.86	47.24	54.00	-6.76	VERTICAL Average
2	5141.760	58.78	31.72	5.63	36.86	59.27	74.00	-14.73	VERTICAL Peak
3	5149.980	46.47	31.72	5.62	36.86	46.95	54.00	-7.05	VERTICAL Average
4	5149.980	57.06	31.72	5.62	36.86	57.54	74.00	-16.46	VERTICAL Peak
5	5270.000	84.19	31.75	5.80	36.87	84.87	-----	-----	VERTICAL Average
6 *	5270.000	93.04	31.75	5.80	36.87	93.72	68.20	25.52	VERTICAL Peak



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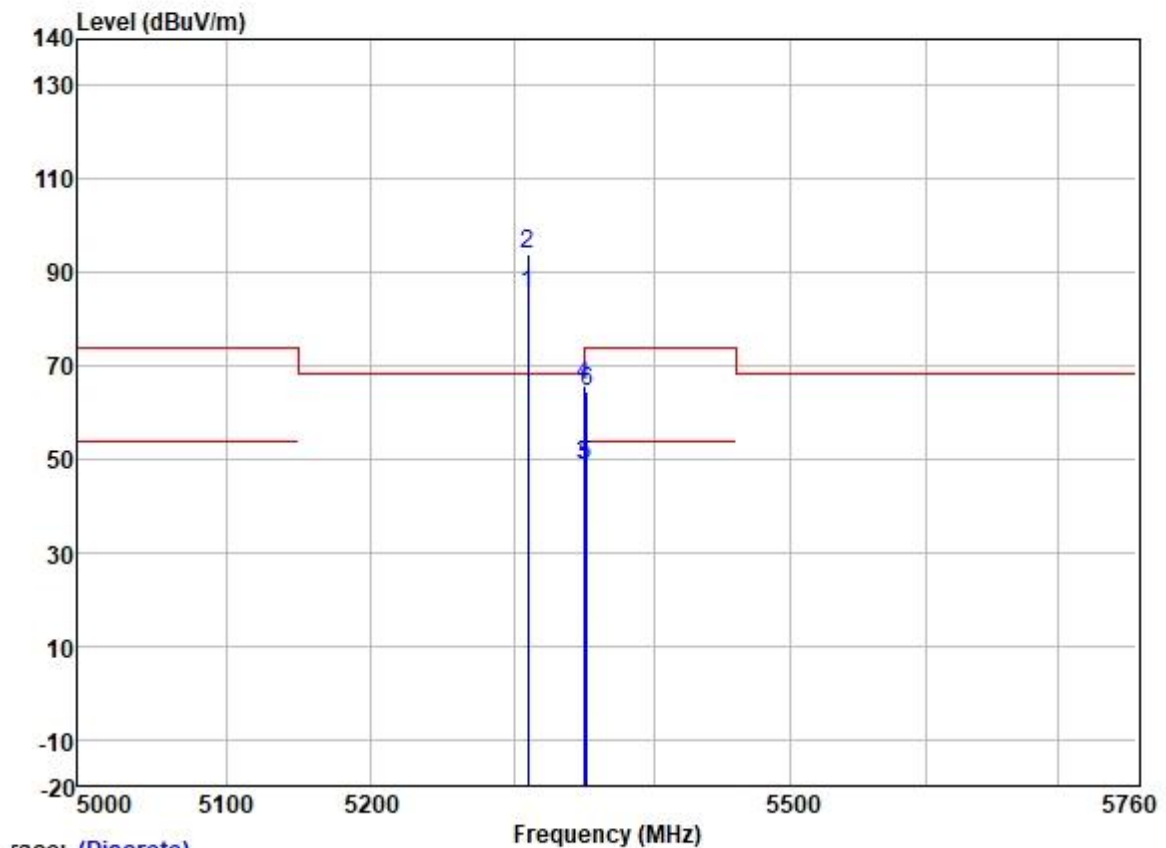
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



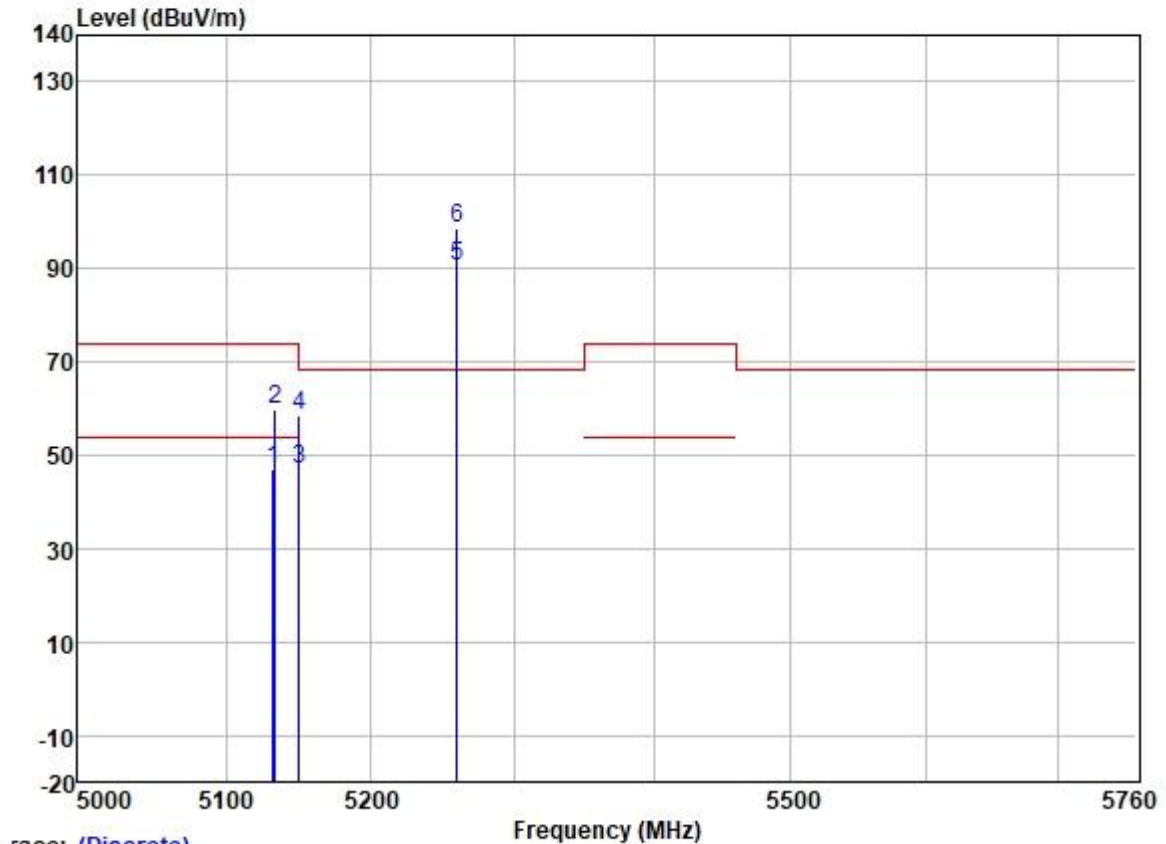
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5310.000	84.94	31.77	6.08	36.87	85.92	-----	-----	HORIZONTAL	Average
2 *	5310.000	93.17	31.77	6.08	36.87	94.15	68.20	25.95	HORIZONTAL	Peak
3	5350.020	47.56	31.77	6.05	36.88	48.50	54.00	-5.50	HORIZONTAL	Average
4	5350.020	60.09	31.77	6.05	36.88	61.03	74.00	-12.97	HORIZONTAL	Peak
5	5350.955	47.53	31.77	6.05	36.88	48.47	54.00	-5.53	HORIZONTAL	Average
6	5351.315	60.98	31.77	6.05	36.88	61.92	74.00	-12.08	HORIZONTAL	Peak

Test Mode: 03; 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	84.53	31.77	6.08	36.87	85.51	-----	-----	VERTICAL	Average
2 *	5310.000	93.15	31.77	6.08	36.87	94.13	68.20	25.93	VERTICAL	Peak
3	5350.020	47.75	31.77	6.05	36.88	48.69	54.00	-5.31	VERTICAL	Average
4	5350.020	64.94	31.77	6.05	36.88	65.88	74.00	-8.12	VERTICAL	Peak
5	5350.474	47.67	31.77	6.05	36.88	48.61	54.00	-5.39	VERTICAL	Average
6	5352.157	63.46	31.77	6.05	36.88	64.40	74.00	-9.60	VERTICAL	Peak

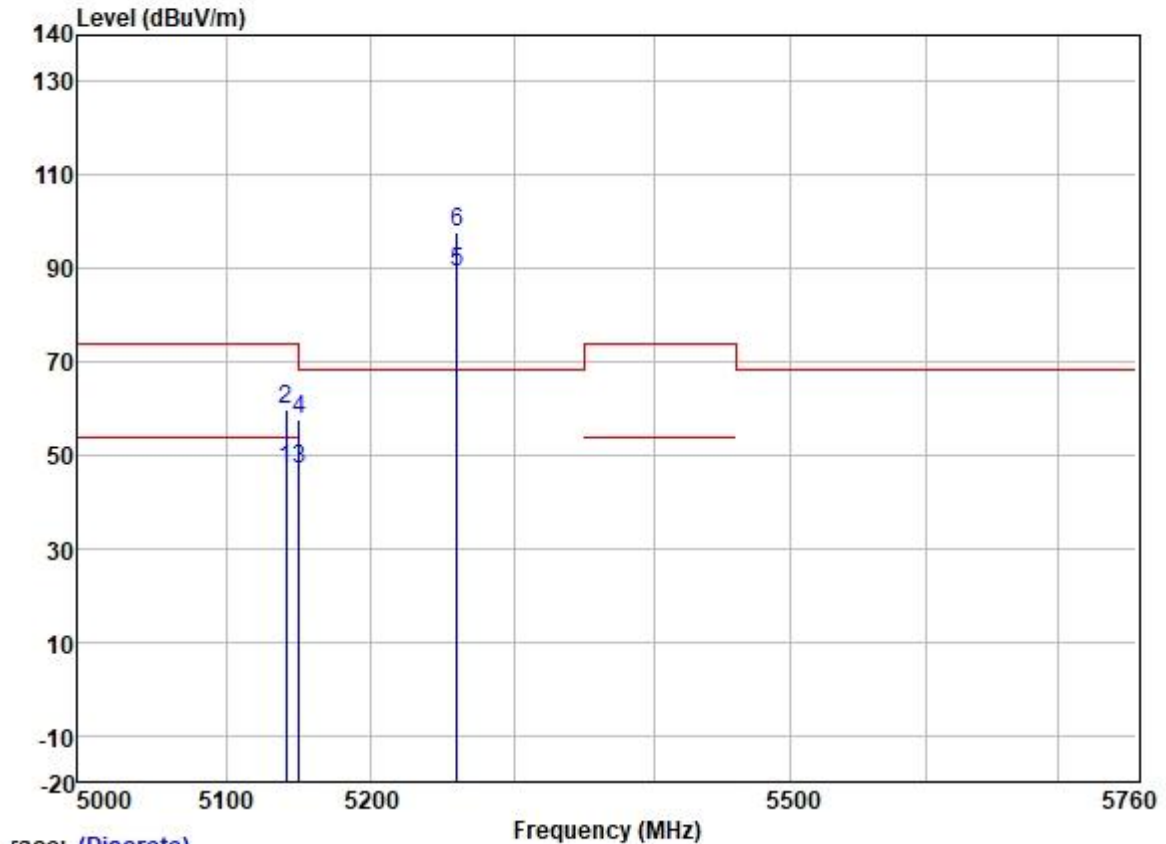
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

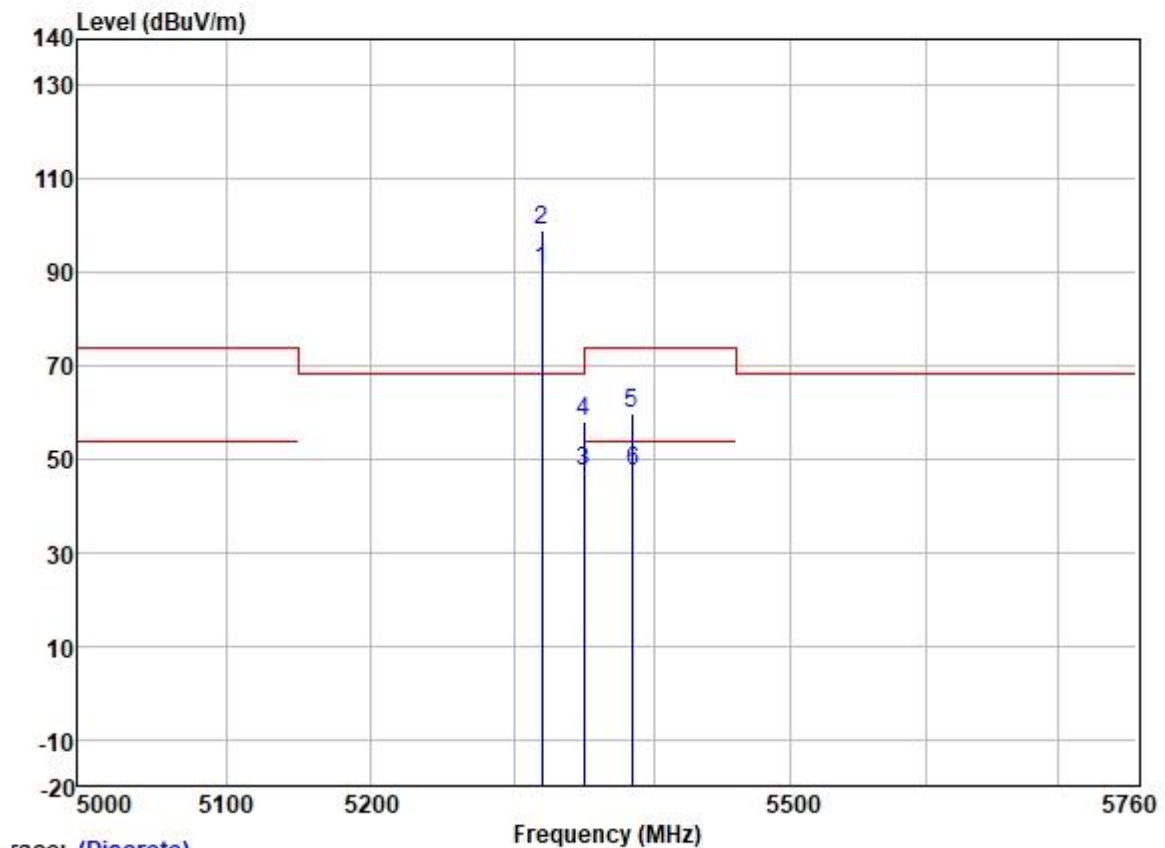
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5132.297	46.62	31.72	5.63	36.86	47.11	54.00	-6.89	HORIZONTAL Average
2	5133.543	59.11	31.72	5.63	36.86	59.60	74.00	-14.40	HORIZONTAL Peak
3	5149.980	46.35	31.72	5.62	36.86	46.83	54.00	-7.17	HORIZONTAL Average
4	5149.980	57.92	31.72	5.62	36.86	58.40	74.00	-15.60	HORIZONTAL Peak
5	5260.000	89.79	31.75	5.77	36.87	90.44	-----	-----	HORIZONTAL Average
6 *	5260.000	97.75	31.75	5.77	36.87	98.40	68.20	30.20	HORIZONTAL Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	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	5140.849	46.67	31.72	5.63	36.86	47.16	54.00	-6.84	VERTICAL	Average
2	5140.849	59.41	31.72	5.63	36.86	59.90	74.00	-14.10	VERTICAL	Peak
3	5149.980	46.62	31.72	5.62	36.86	47.10	54.00	-6.90	VERTICAL	Average
4	5149.980	57.38	31.72	5.62	36.86	57.86	74.00	-16.14	VERTICAL	Peak
5	5260.000	88.77	31.75	5.77	36.87	89.42	-----	-----	VERTICAL	Average
6 *	5260.000	97.10	31.75	5.77	36.87	97.75	68.20	29.55	VERTICAL	Peak

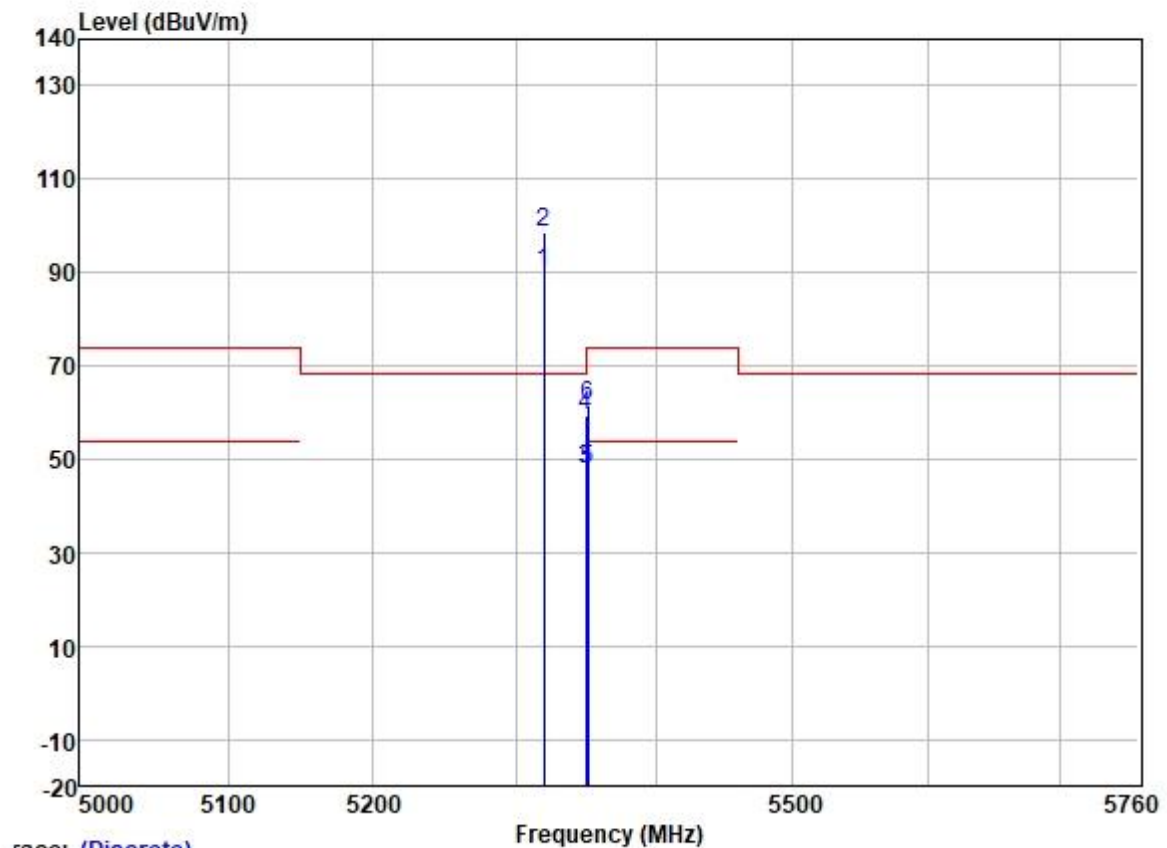
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

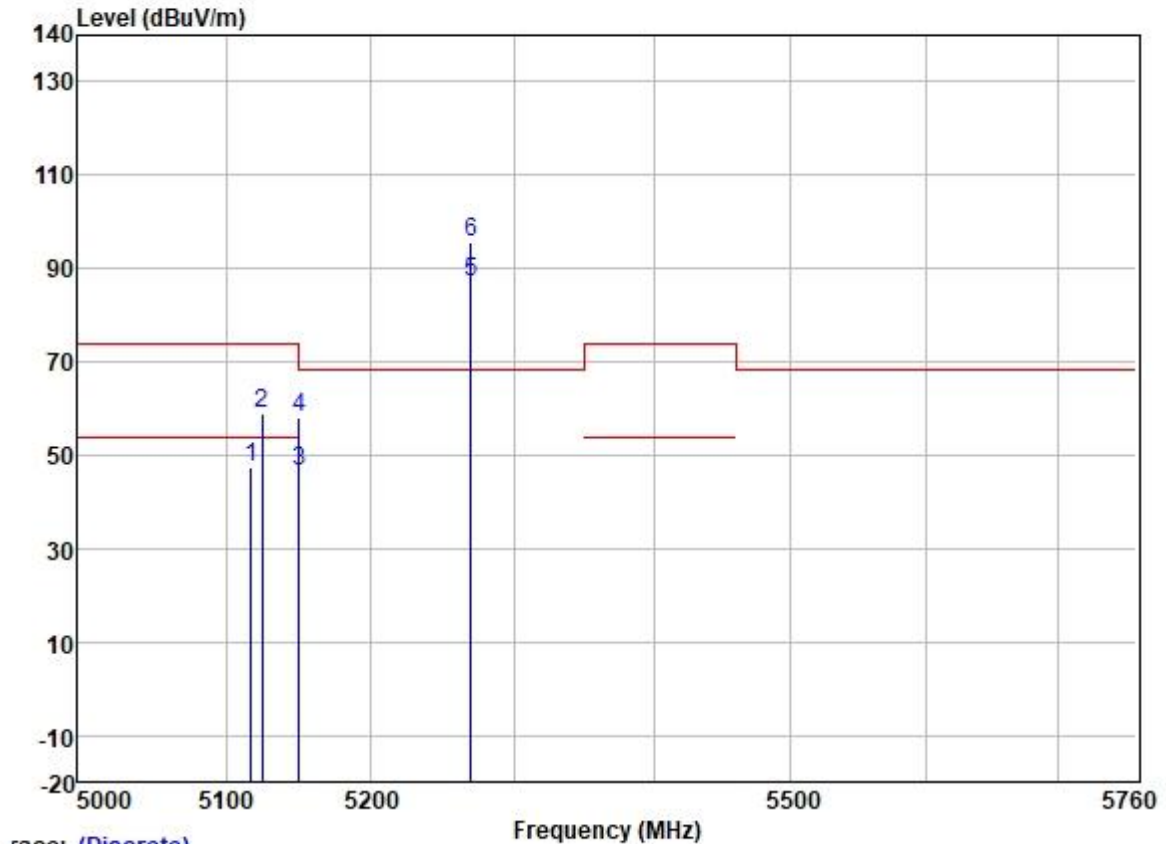
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	89.34	31.77	6.08	36.88	90.31	-----	-----	HORIZONTAL	Average
2 *	5320.000	98.09	31.77	6.08	36.88	99.06	68.20	30.86	HORIZONTAL	Peak
3	5350.020	46.51	31.77	6.05	36.88	47.45	54.00	-6.55	HORIZONTAL	Average
4	5350.020	57.31	31.77	6.05	36.88	58.25	74.00	-15.75	HORIZONTAL	Peak
5	5383.874	58.68	31.78	6.02	36.88	59.60	74.00	-14.40	HORIZONTAL	Peak
6	5384.579	46.55	31.78	6.02	36.88	47.47	54.00	-6.53	HORIZONTAL	Average

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	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	89.32	31.77	6.08	36.88	90.29	-----	-----	VERTICAL Average
2 *	5320.000	97.79	31.77	6.08	36.88	98.76	68.20	30.56	VERTICAL Peak
3	5350.020	46.75	31.77	6.05	36.88	47.69	54.00	-6.31	VERTICAL Average
4	5350.020	58.30	31.77	6.05	36.88	59.24	74.00	-14.76	VERTICAL Peak
5	5350.866	46.73	31.77	6.05	36.88	47.67	54.00	-6.33	VERTICAL Average
6	5350.866	60.51	31.77	6.05	36.88	61.45	74.00	-12.55	VERTICAL Peak

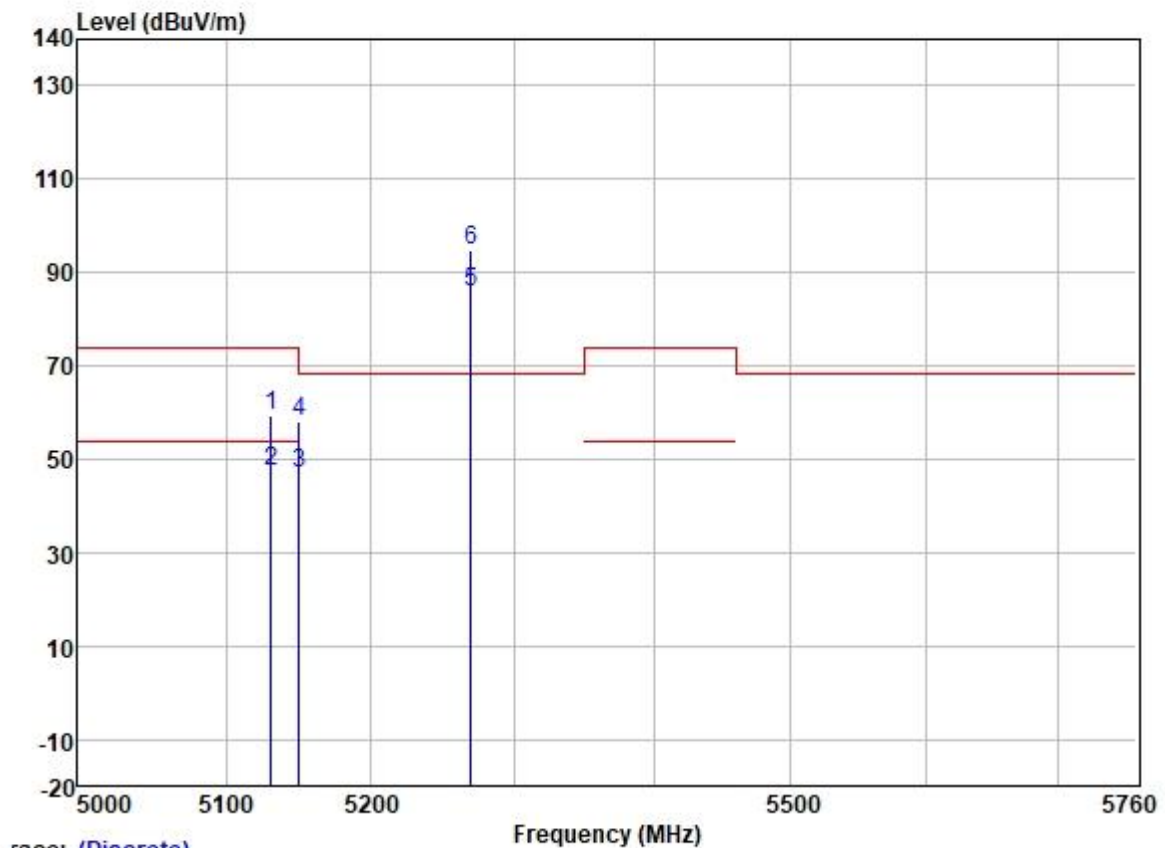
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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	5117.096	46.77	31.72	5.64	36.86	47.27	54.00	-6.73	HORIZONTAL Average
2	5124.582	58.59	31.72	5.64	36.86	59.09	74.00	-14.91	HORIZONTAL Peak
3	5149.980	46.20	31.72	5.62	36.86	46.68	54.00	-7.32	HORIZONTAL Average
4	5149.980	57.62	31.72	5.62	36.86	58.10	74.00	-15.90	HORIZONTAL Peak
5	5270.000	86.36	31.75	5.80	36.87	87.04	-----	-----	HORIZONTAL Average
6 *	5270.000	95.06	31.75	5.80	36.87	95.74	68.20	27.54	HORIZONTAL Peak

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

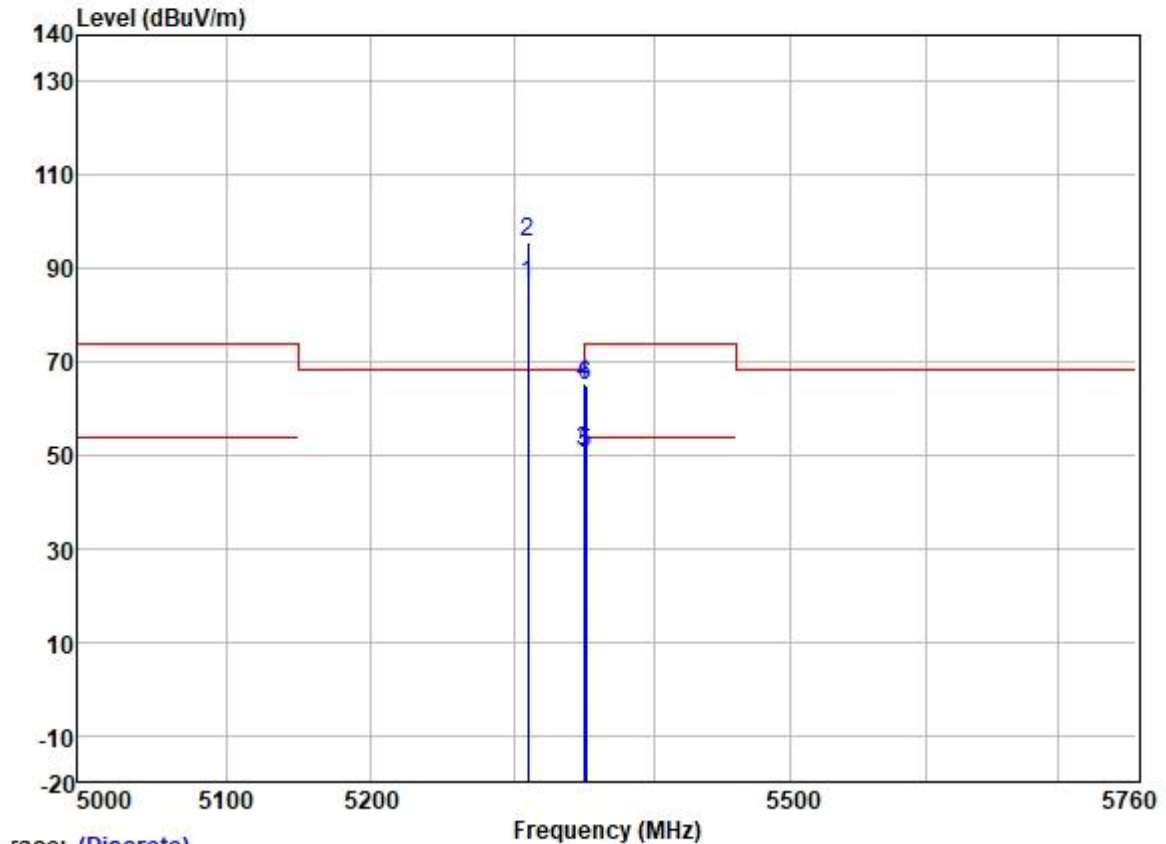
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5130.893	58.73	31.72	5.63	36.86	59.22	74.00	-14.78	VERTICAL
2	5131.090	46.82	31.72	5.63	36.86	47.31	54.00	-6.69	VERTICAL
3	5149.980	46.55	31.72	5.62	36.86	47.03	54.00	-6.97	VERTICAL
4	5149.980	57.57	31.72	5.62	36.86	58.05	74.00	-15.95	VERTICAL
5	5270.000	85.24	31.75	5.80	36.87	85.92	-----	-----	VERTICAL
6 *	5270.000	93.96	31.75	5.80	36.87	94.64	68.20	26.44	VERTICAL



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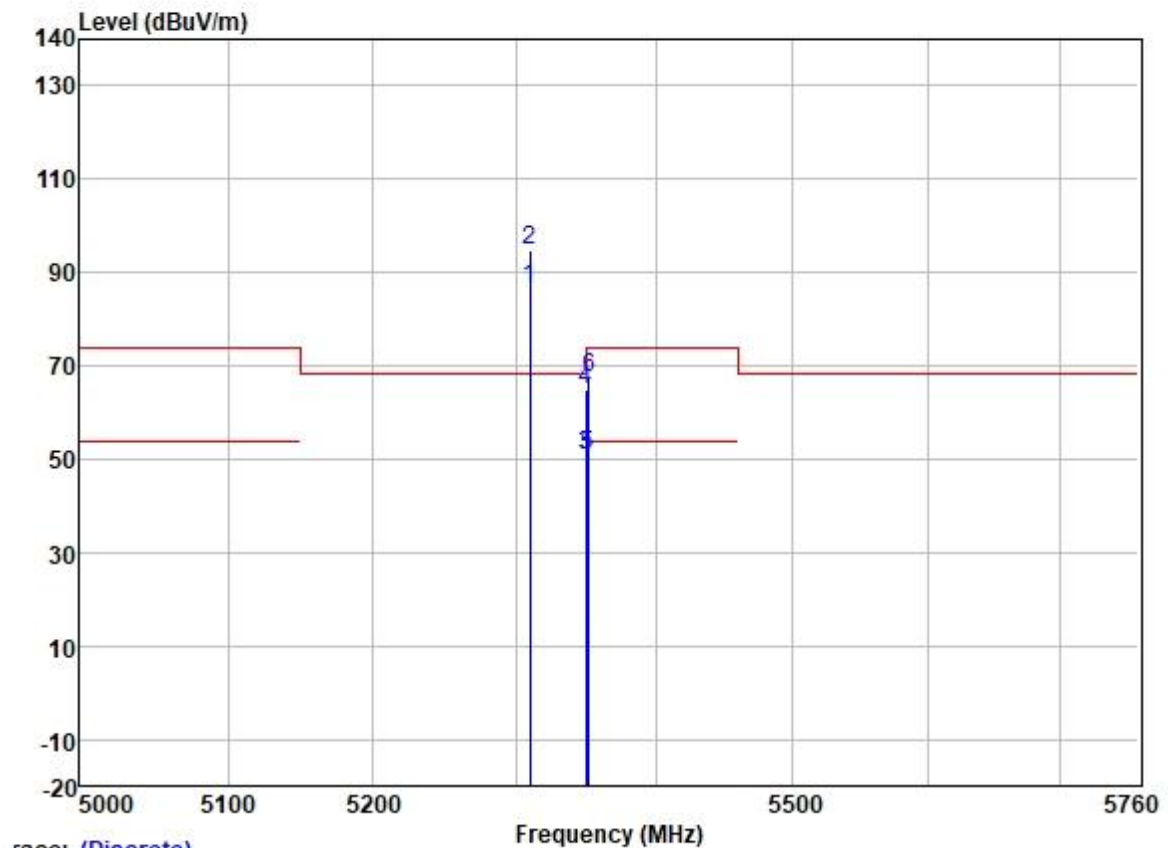
Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



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	5310.000	85.72	31.77	6.08	36.87	86.70	-----	-----	HORIZONTAL Average
2 *	5310.000	94.69	31.77	6.08	36.87	95.67	68.20	27.47	HORIZONTAL Peak
3	5350.020	49.71	31.77	6.05	36.88	50.65	54.00	-3.35	HORIZONTAL Average
4	5350.020	64.42	31.77	6.05	36.88	65.36	74.00	-8.64	HORIZONTAL Peak
5	5350.474	49.50	31.77	6.05	36.88	50.44	54.00	-3.56	HORIZONTAL Average
6	5350.834	63.90	31.77	6.05	36.88	64.84	74.00	-9.16	HORIZONTAL Peak

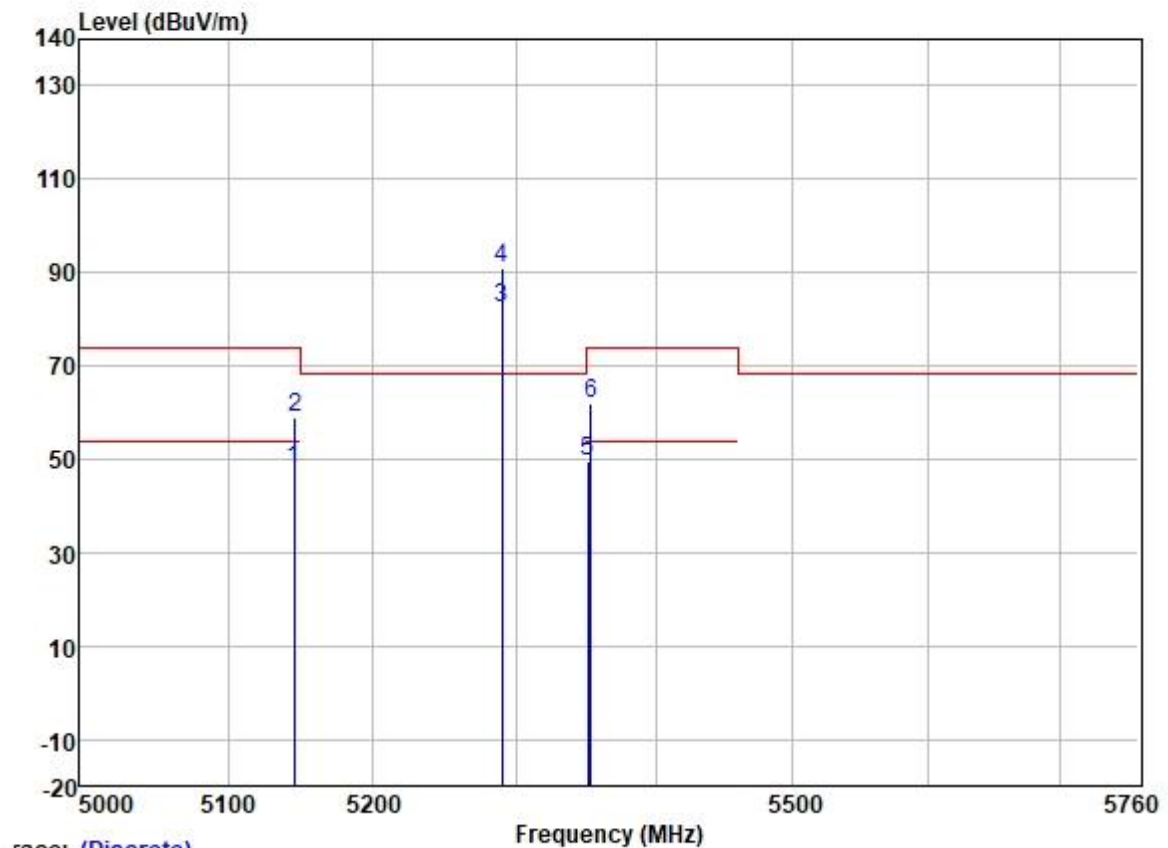
Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

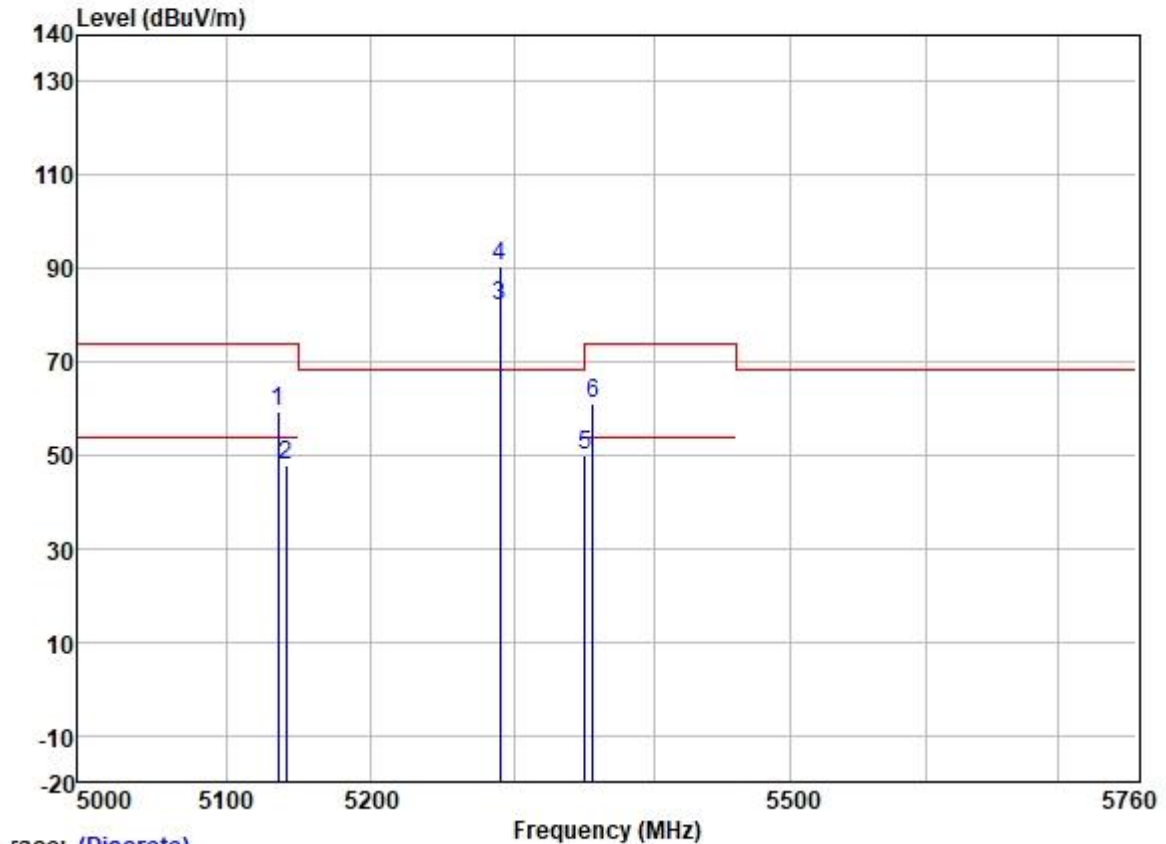
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	85.51	31.77	6.08	36.87	86.49	-----	VERTICAL	Average
2 *	5310.000	93.80	31.77	6.08	36.87	94.78	68.20	VERTICAL	Peak
3	5350.020	49.97	31.77	6.05	36.88	50.91	54.00	VERTICAL	Average
4	5350.020	63.92	31.77	6.05	36.88	64.86	74.00	VERTICAL	Peak
5	5350.714	49.81	31.77	6.05	36.88	50.75	54.00	VERTICAL	Average
6	5351.796	66.59	31.77	6.05	36.88	67.53	74.00	VERTICAL	Peak

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



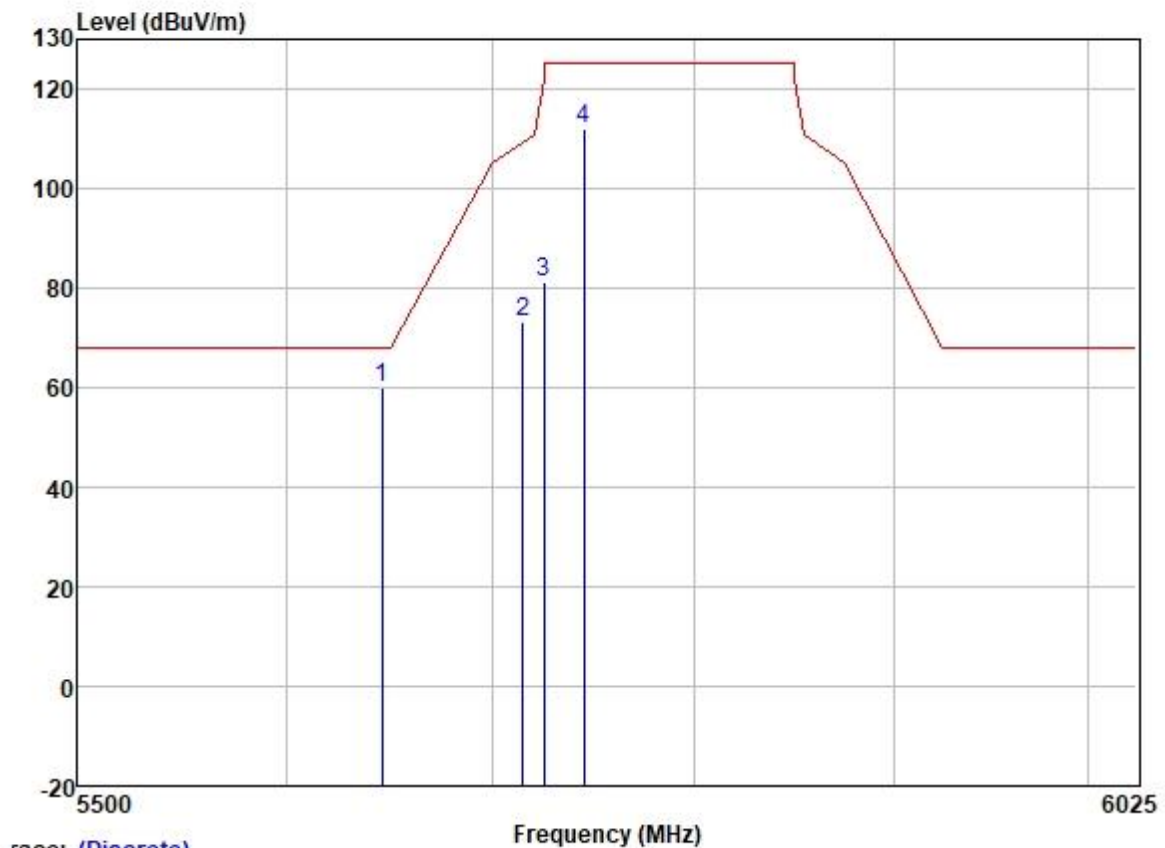
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5145.384	47.33	31.72	5.62	36.86	47.81	54.00	-6.19	HORIZONTAL Average
2	5145.973	58.32	31.72	5.62	36.86	58.80	74.00	-15.20	HORIZONTAL Peak
3	5290.000	81.61	31.76	6.00	36.87	82.50	-----	-----	HORIZONTAL Average
4 *	5290.000	90.02	31.76	6.00	36.87	90.91	68.20	22.71	HORIZONTAL Peak
5	5350.840	48.81	31.77	6.05	36.88	49.75	54.00	-4.25	HORIZONTAL Average
6	5353.594	60.84	31.77	6.05	36.88	61.78	74.00	-12.22	HORIZONTAL Peak

Test Mode: 03; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



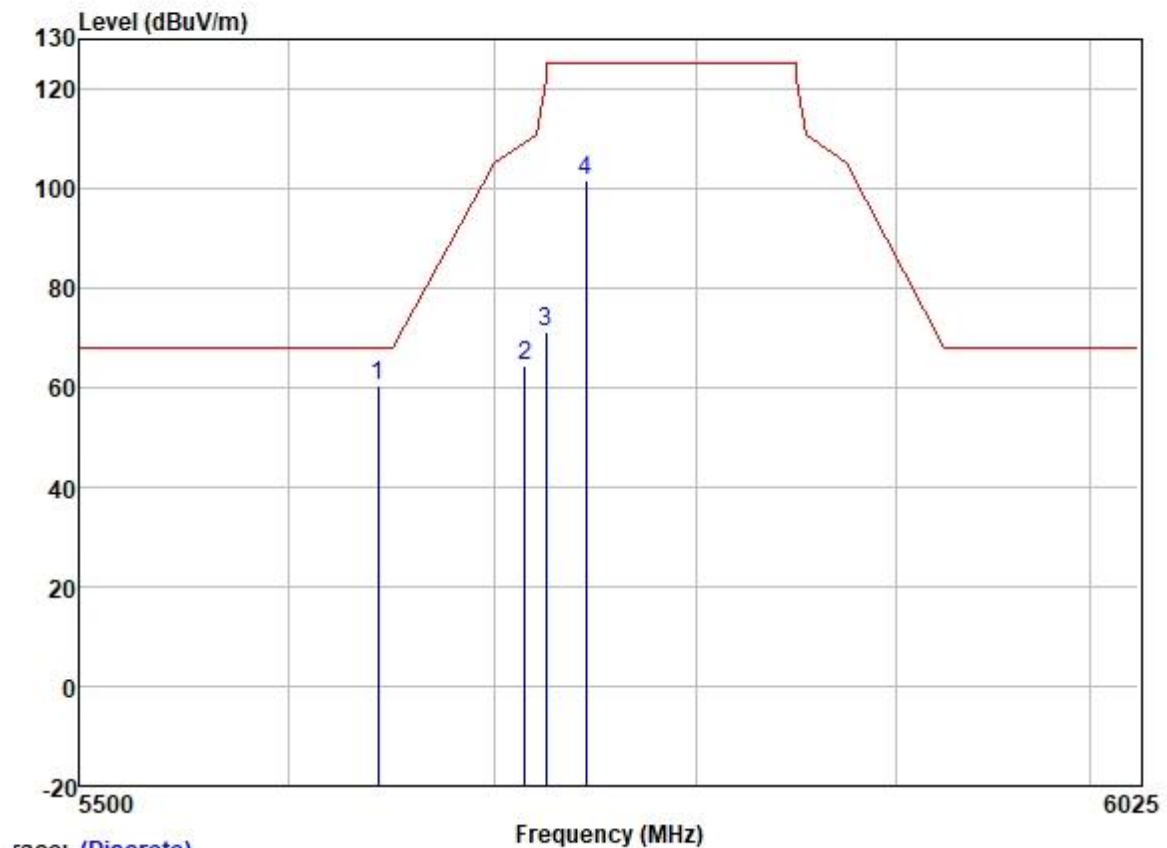
	Freq	Read	Antenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5135.688	58.66	31.72	5.63	36.86	59.15	74.00	-14.85	VERTICAL	Peak
2	5141.269	47.47	31.72	5.63	36.86	47.96	54.00	-6.04	VERTICAL	Average
3	5290.000	81.27	31.76	6.00	36.87	82.16	-----	-----	VERTICAL	Average
4 *	5290.000	89.46	31.76	6.00	36.87	90.35	68.20	22.15	VERTICAL	Peak
5	5350.535	49.06	31.77	6.05	36.88	50.00	54.00	-4.00	VERTICAL	Average
6	5356.348	60.19	31.78	6.03	36.88	61.12	74.00	-12.88	VERTICAL	Peak

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



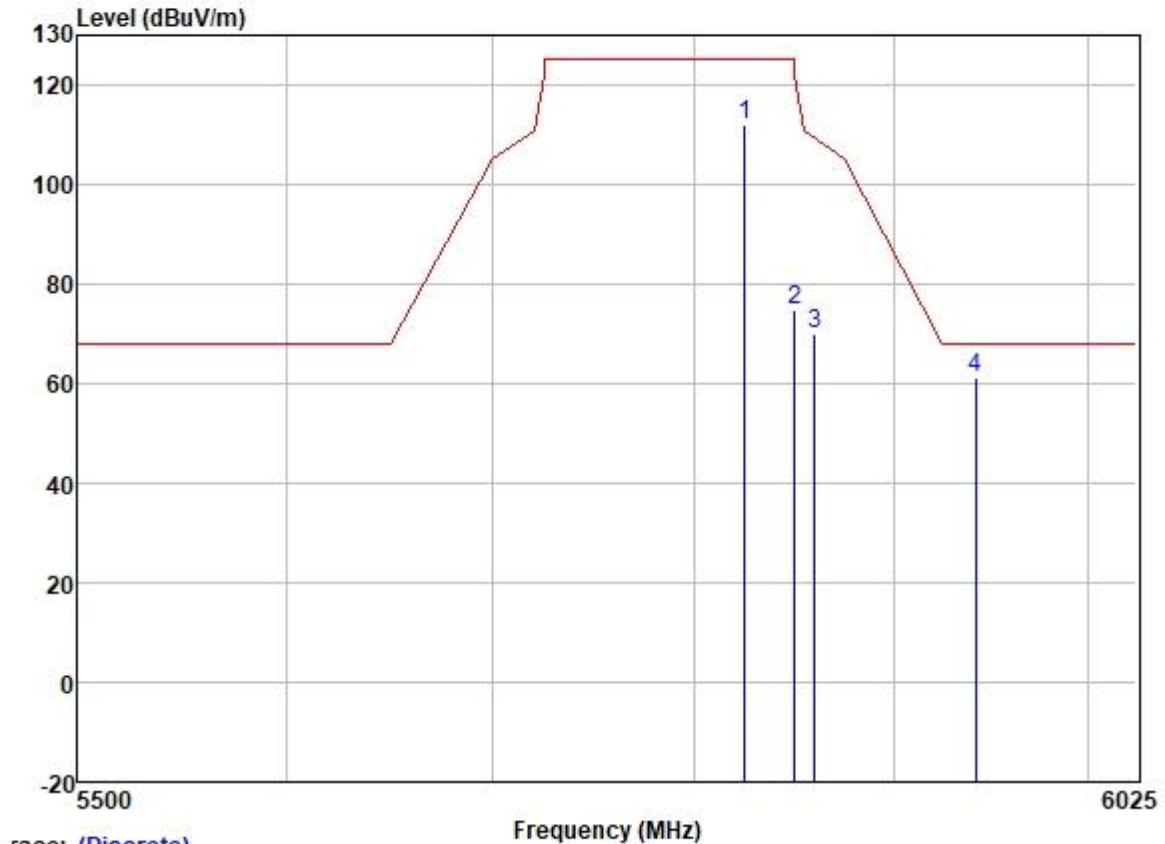
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5646.088	58.63	31.95	6.35	36.89	60.04	68.20	-8.16	HORIZONTAL	Peak
2	5715.000	71.58	32.04	6.33	36.89	73.06	109.40	-36.34	HORIZONTAL	Peak
3	5725.000	79.88	32.07	6.25	36.89	81.31	122.20	-40.89	HORIZONTAL	Peak
4	5745.000	110.69	32.10	6.20	36.89	112.10	125.20	-13.10	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; 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	5643.043	58.93	31.95	6.35	36.89	60.34	68.20	-7.86	VERTICAL	Peak
2	5715.000	63.08	32.04	6.33	36.89	64.56	109.40	-44.84	VERTICAL	Peak
3	5725.000	69.95	32.07	6.25	36.89	71.38	122.20	-50.82	VERTICAL	Peak
4	5745.000	100.30	32.10	6.20	36.89	101.71	125.20	-23.49	VERTICAL	Peak

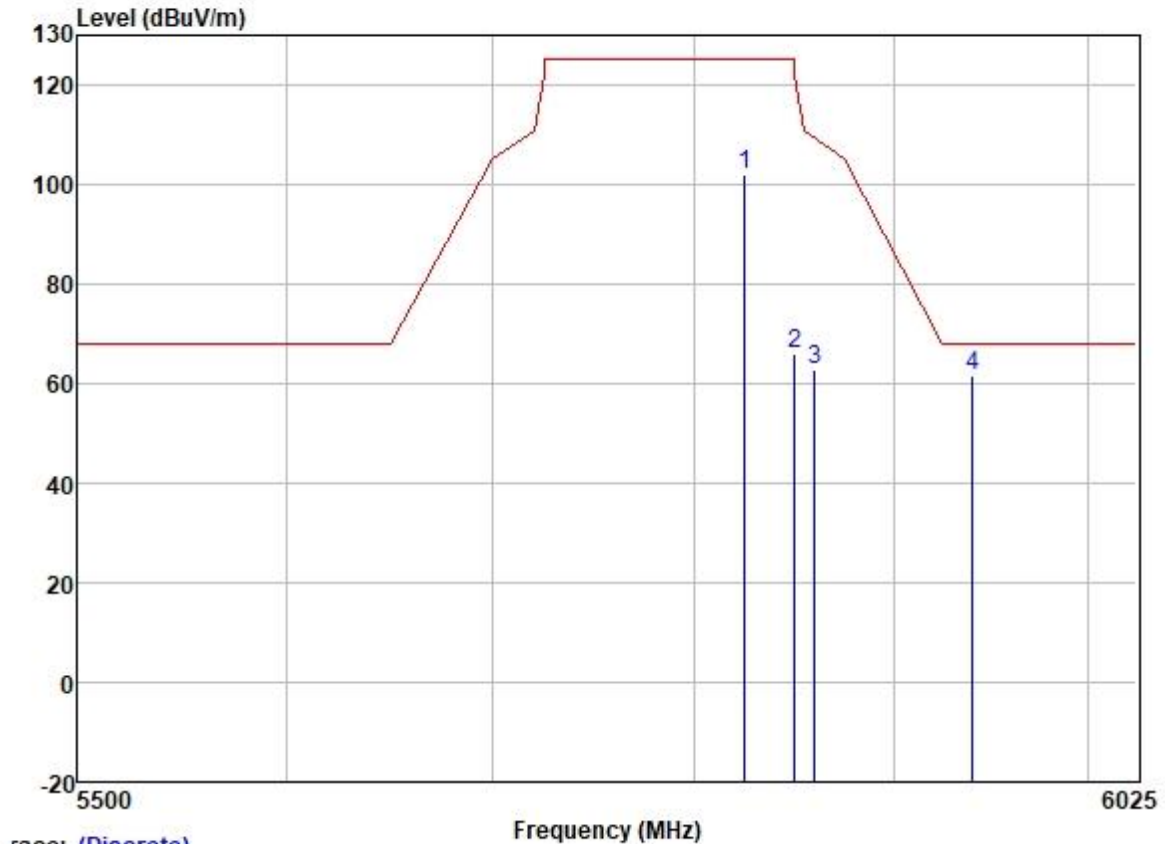
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

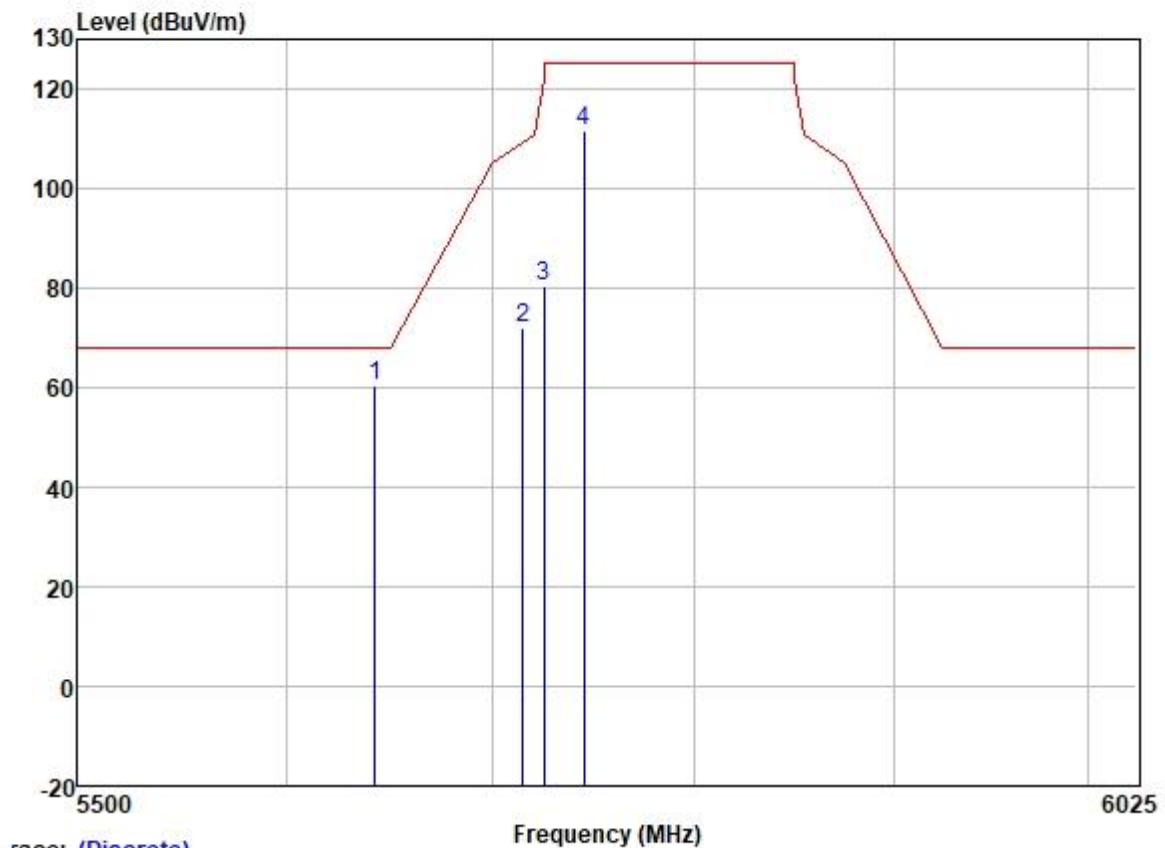
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	110.47	32.23	6.04	36.90	111.84	125.20	-13.36	HORIZONTAL	Peak
2	5850.000	73.52	32.25	6.00	36.90	74.87	122.20	-47.33	HORIZONTAL	Peak
3	5860.000	68.83	32.27	5.96	36.90	70.16	109.40	-39.24	HORIZONTAL	Peak
4	5942.017	59.88	32.36	6.05	36.90	61.39	68.20	-6.81	HORIZONTAL	Peak

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



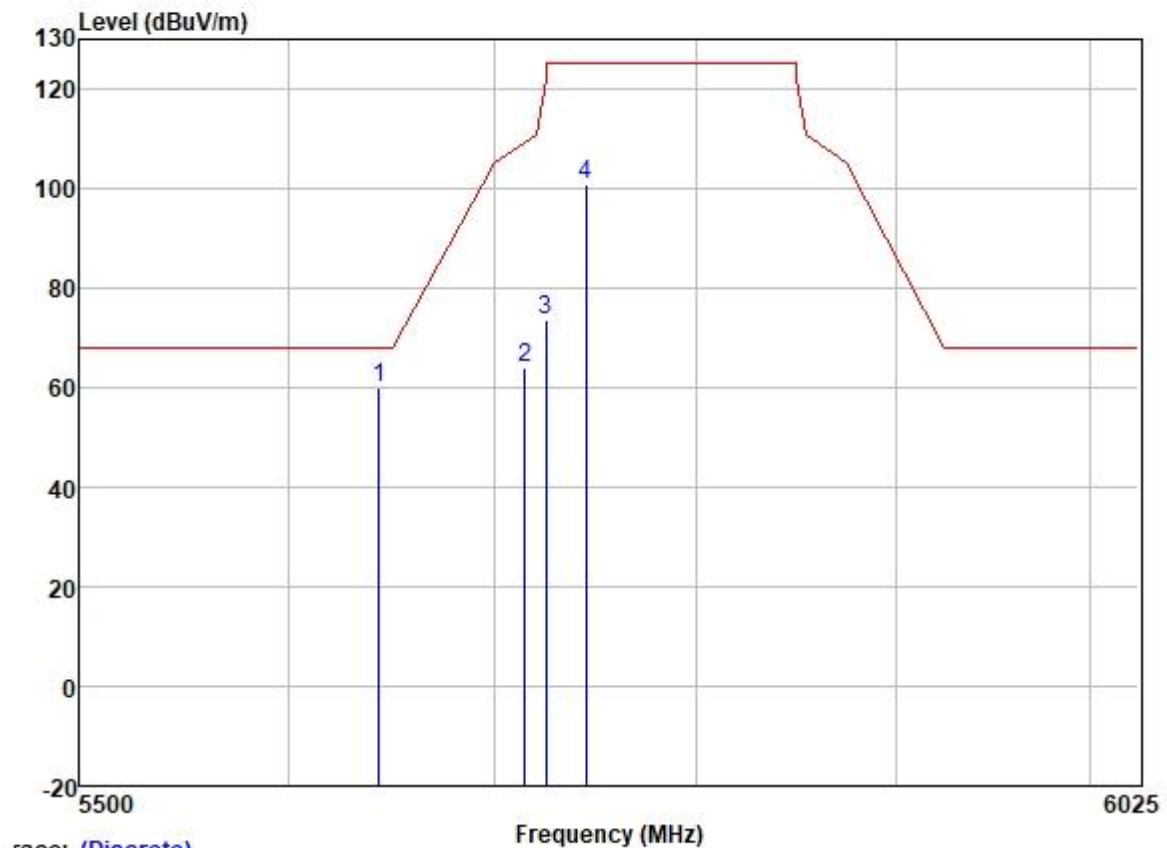
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	100.51	32.23	6.04	36.90	101.88	125.20	-23.32	VERTICAL	Peak
2	5850.000	64.53	32.25	6.00	36.90	65.88	122.20	-56.32	VERTICAL	Peak
3	5860.000	61.29	32.27	5.96	36.90	62.62	109.40	-46.78	VERTICAL	Peak
4	5940.290	60.14	32.34	6.00	36.90	61.58	68.20	-6.62	VERTICAL	Peak

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



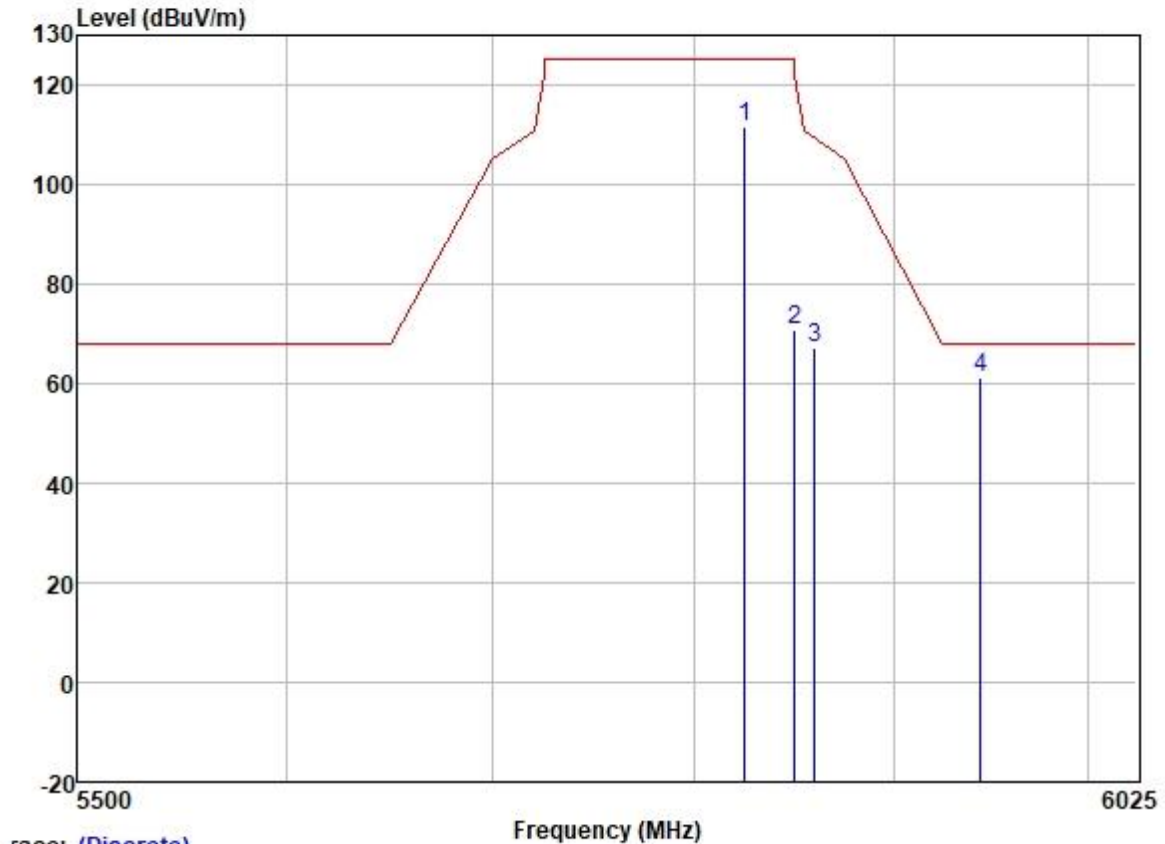
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5642.628	58.97	31.95	6.35	36.89	60.38	68.20	-7.82	HORIZONTAL	Peak
2	5715.000	70.63	32.04	6.33	36.89	72.11	109.40	-37.29	HORIZONTAL	Peak
3	5725.000	79.11	32.07	6.25	36.89	80.54	122.20	-41.66	HORIZONTAL	Peak
4	5745.000	110.26	32.10	6.20	36.89	111.67	125.20	-13.53	HORIZONTAL	Peak

Test Mode: 04; 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	5643.320	58.69	31.95	6.35	36.89	60.10	68.20	-8.10	VERTICAL	Peak
2	5715.000	62.38	32.04	6.33	36.89	63.86	109.40	-45.54	VERTICAL	Peak
3	5725.000	72.09	32.07	6.25	36.89	73.52	122.20	-48.68	VERTICAL	Peak
4	5745.000	99.57	32.10	6.20	36.89	100.98	125.20	-24.22	VERTICAL	Peak

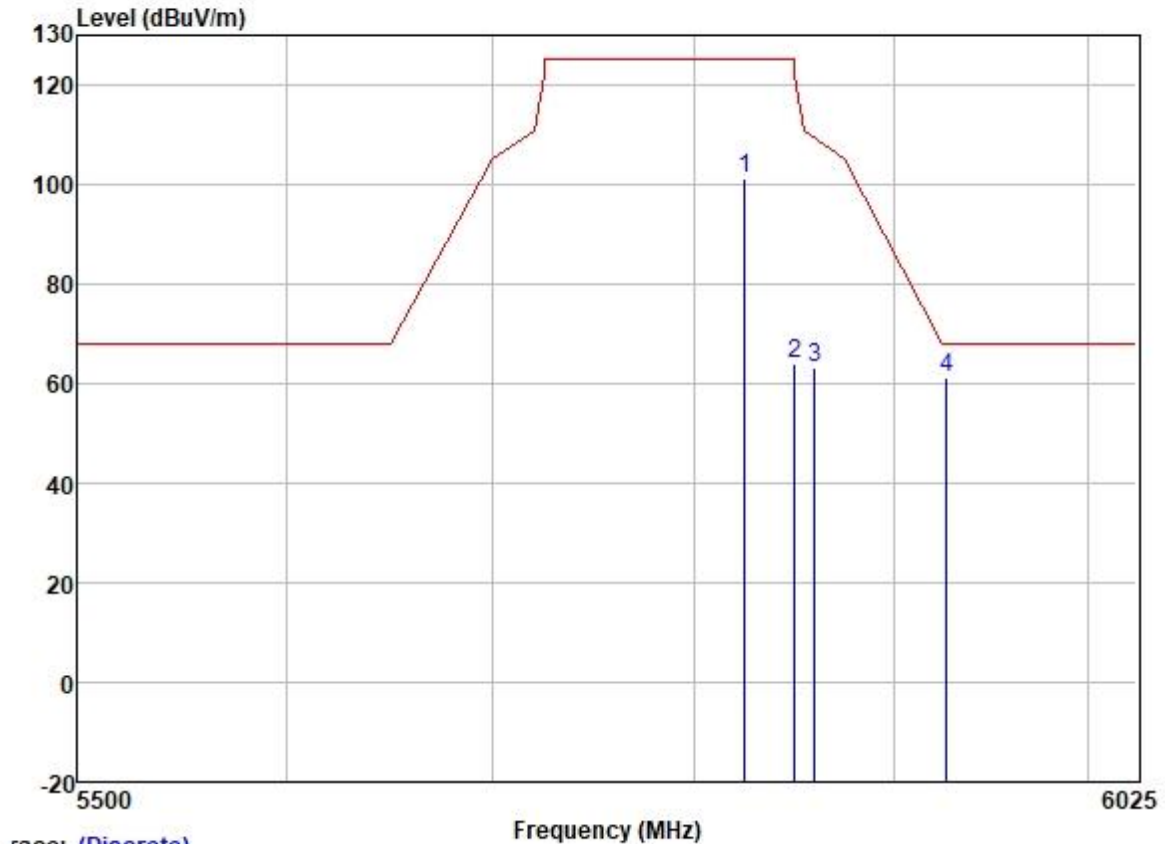
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

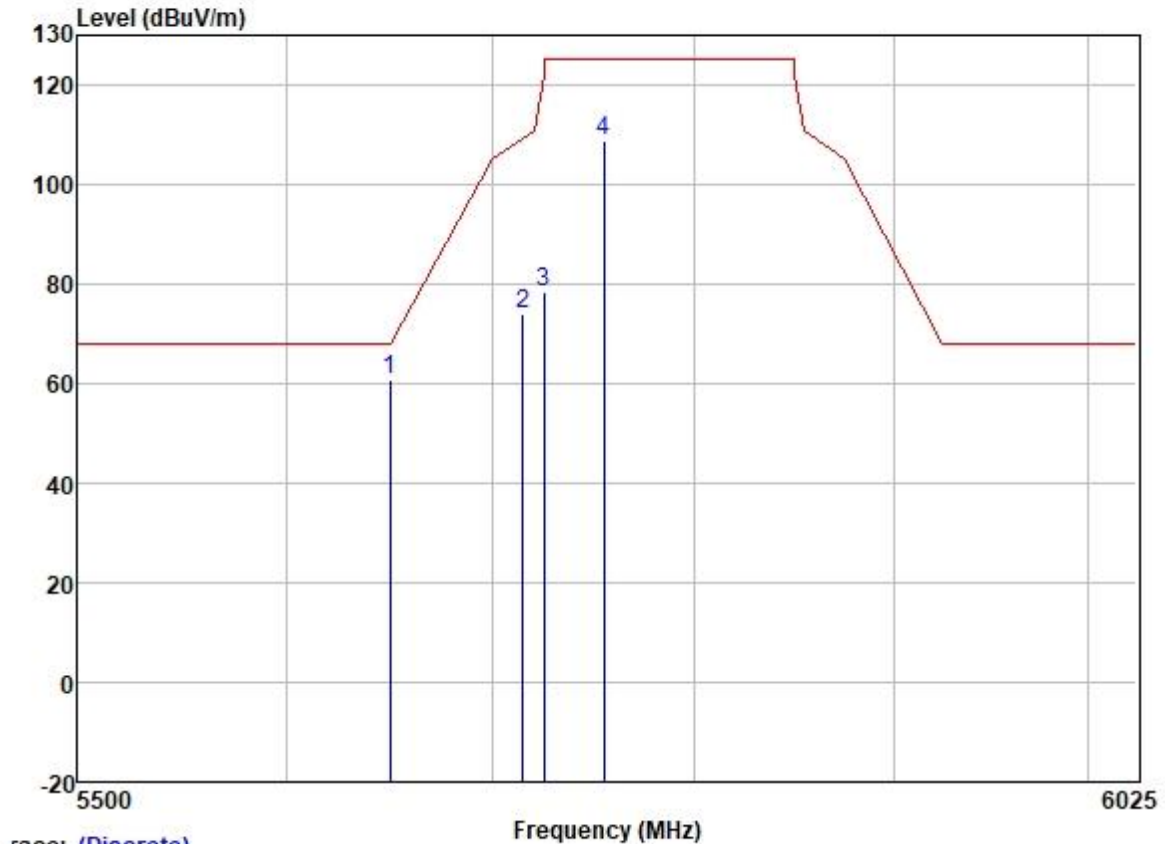
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	110.08	32.23	6.04	36.90	111.45	125.20	-13.75	HORIZONTAL	Peak
2	5850.000	69.64	32.25	6.00	36.90	70.99	122.20	-51.21	HORIZONTAL	Peak
3	5860.000	65.88	32.27	5.96	36.90	67.21	109.40	-42.19	HORIZONTAL	Peak
4	5944.686	59.72	32.36	6.05	36.90	61.23	68.20	-6.97	HORIZONTAL	Peak

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



	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	5825.000	99.78	32.23	6.04	36.90	101.15	125.20	-24.05	VERTICAL	Peak
2	5850.000	62.61	32.25	6.00	36.90	63.96	122.20	-58.24	VERTICAL	Peak
3	5860.000	61.81	32.27	5.96	36.90	63.14	109.40	-46.26	VERTICAL	Peak
4	5926.966	59.81	32.34	6.00	36.90	61.25	68.20	-6.95	VERTICAL	Peak

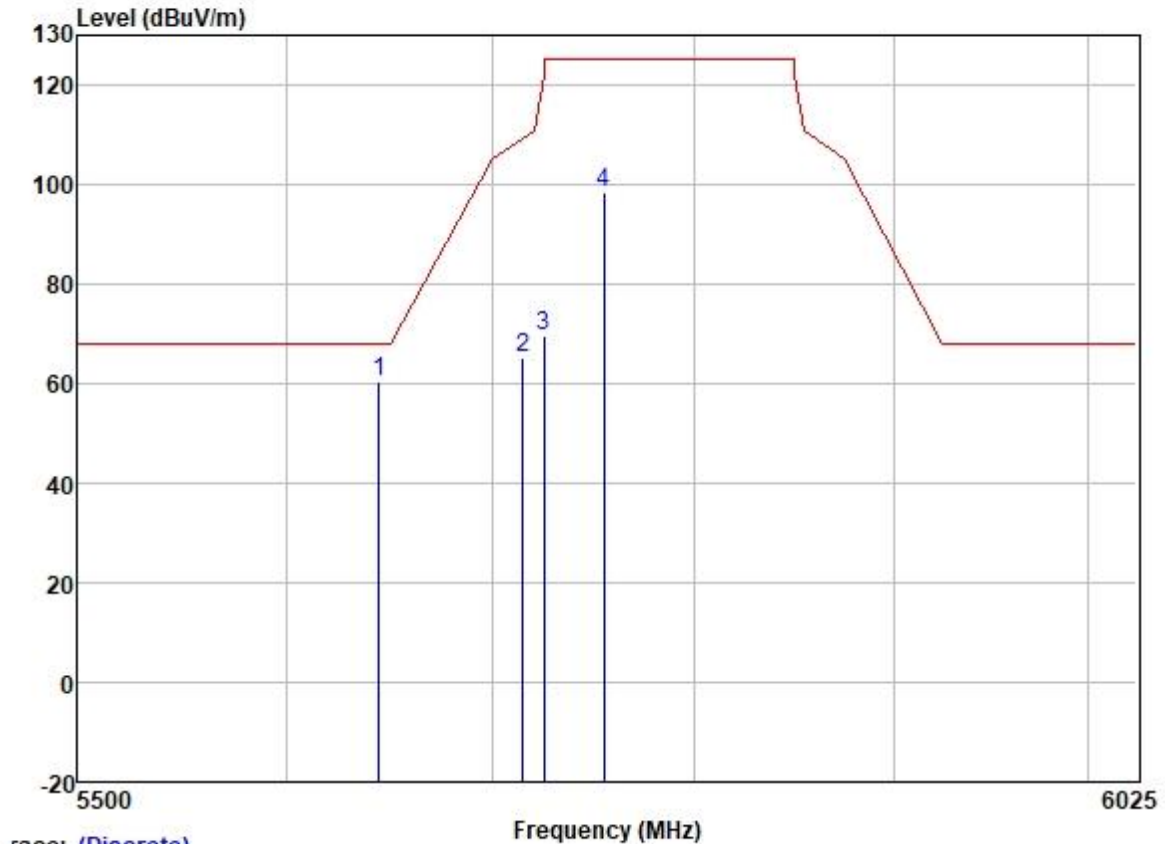
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

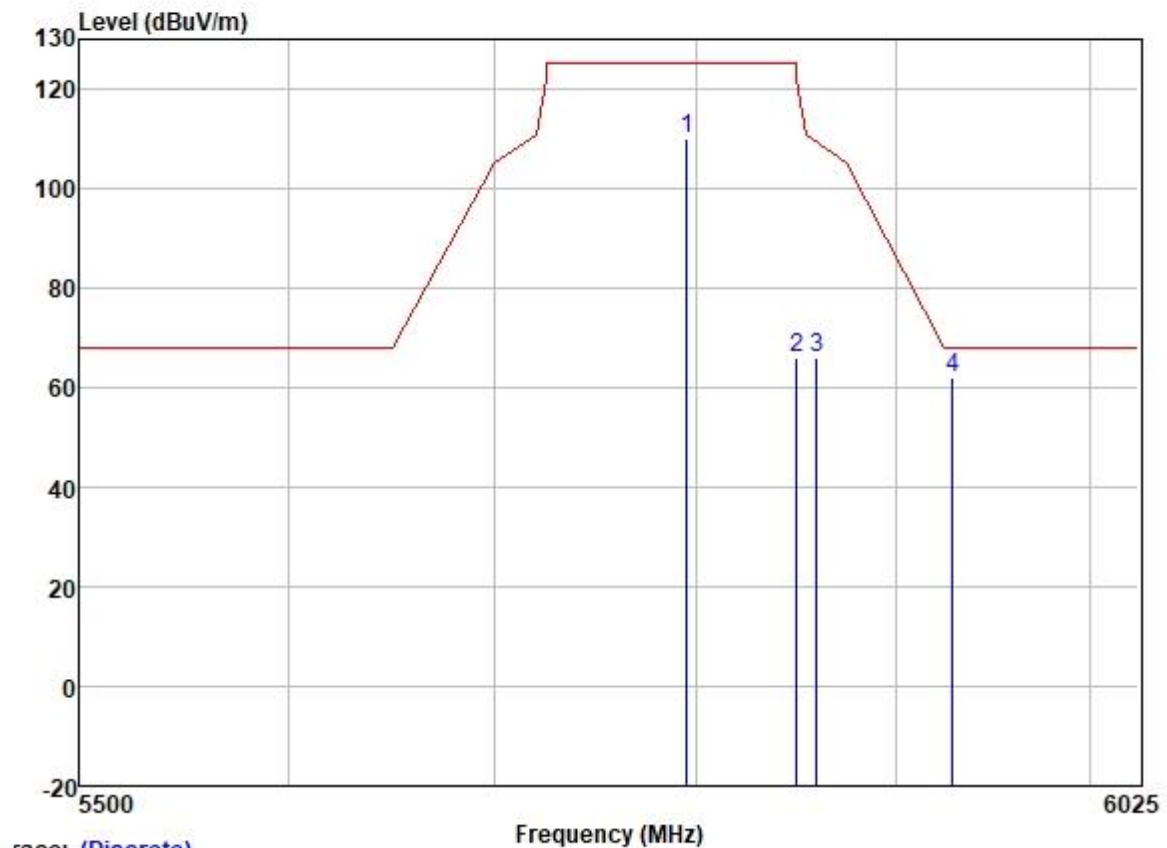
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.948	59.22	31.95	6.35	36.89	60.63	68.20	-7.57	HORIZONTAL	Peak
2	5715.000	72.42	32.04	6.33	36.89	73.90	109.40	-35.50	HORIZONTAL	Peak
3	5725.000	77.01	32.07	6.25	36.89	78.44	122.20	-43.76	HORIZONTAL	Peak
4	5755.000	107.24	32.10	6.20	36.89	108.65	125.20	-16.55	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; 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	5644.436	59.14	31.95	6.35	36.89	60.55	68.20	-7.65	VERTICAL	Peak
2	5715.000	63.82	32.04	6.33	36.89	65.30	109.40	-44.10	VERTICAL	Peak
3	5725.000	68.32	32.07	6.25	36.89	69.75	122.20	-52.45	VERTICAL	Peak
4	5755.000	96.81	32.10	6.20	36.89	98.22	125.20	-26.98	VERTICAL	Peak

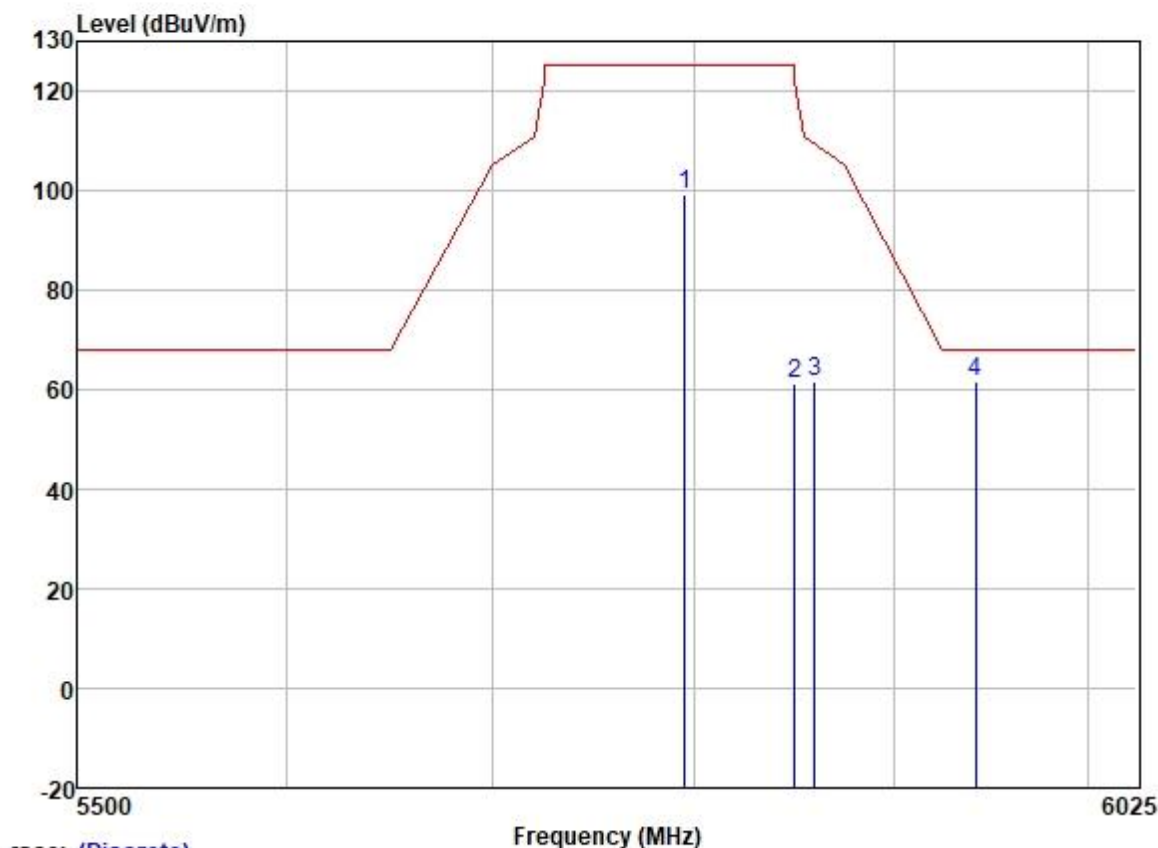
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	108.40	32.19	6.10	36.89	109.80	125.20	-15.40	HORIZONTAL	Peak
2	5850.000	64.64	32.25	6.00	36.90	65.99	122.20	-56.21	HORIZONTAL	Peak
3	5860.000	64.84	32.27	5.96	36.90	66.17	109.40	-43.23	HORIZONTAL	Peak
4	5928.950	60.41	32.34	6.00	36.90	61.85	68.20	-6.35	HORIZONTAL	Peak

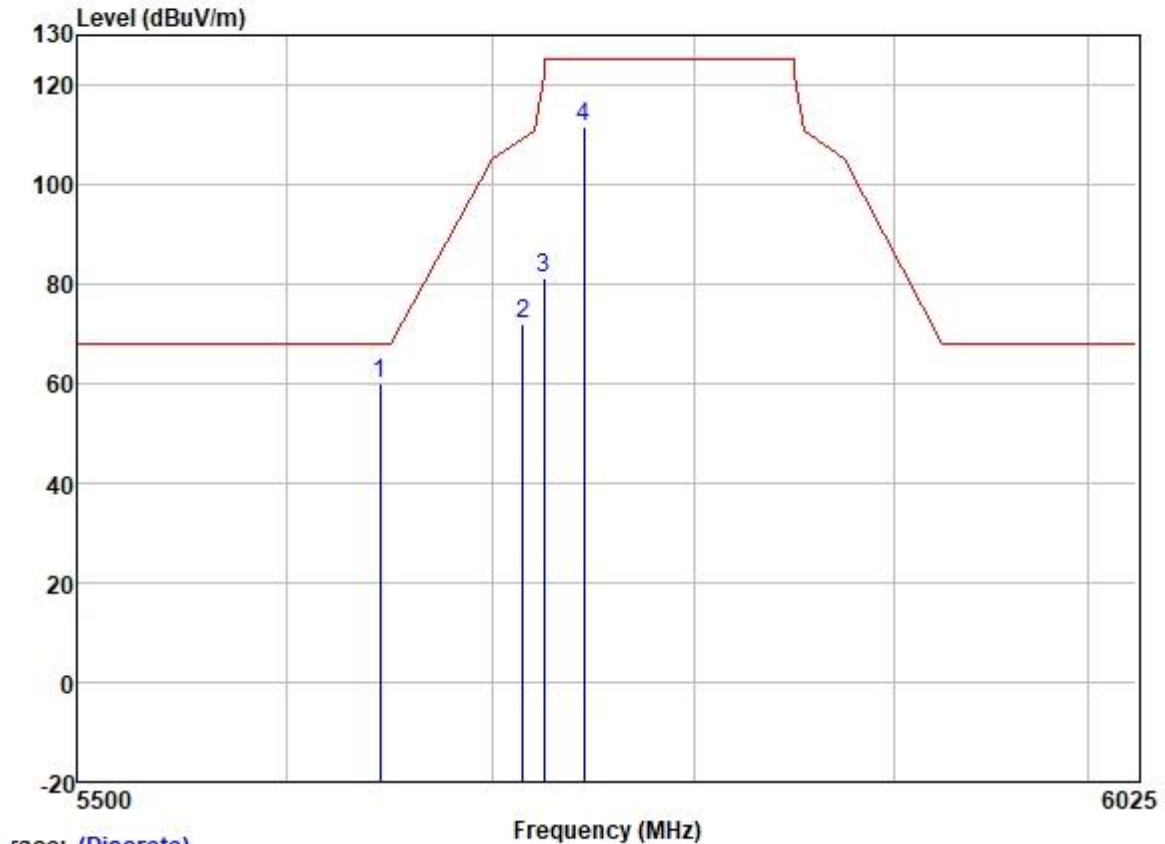
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Trace: (Discrete)

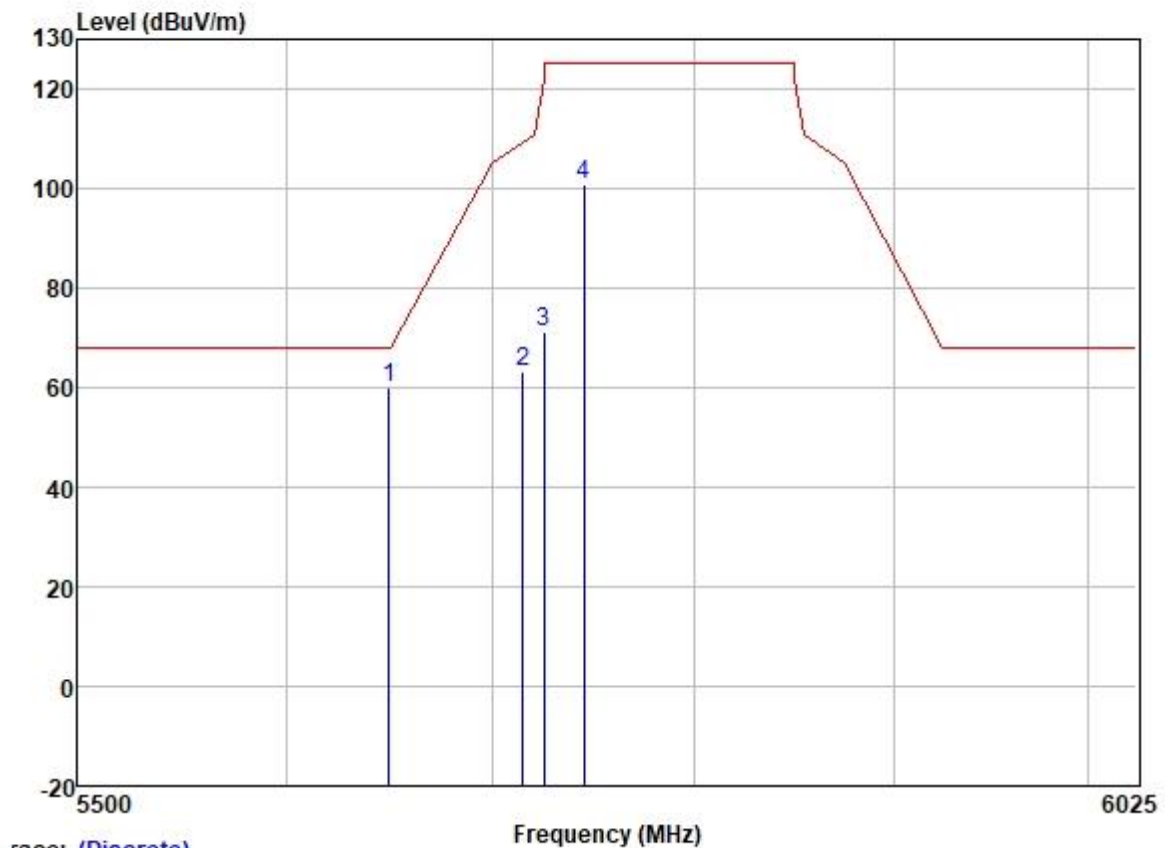
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	97.62	32.19	6.10	36.89	99.02	125.20	-26.18	VERTICAL Peak
2	5850.000	59.82	32.25	6.00	36.90	61.17	122.20	-61.03	VERTICAL Peak
3	5860.000	60.13	32.27	5.96	36.90	61.46	109.40	-47.94	VERTICAL Peak
4	5941.949	60.25	32.36	6.05	36.90	61.76	68.20	-6.44	VERTICAL Peak

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



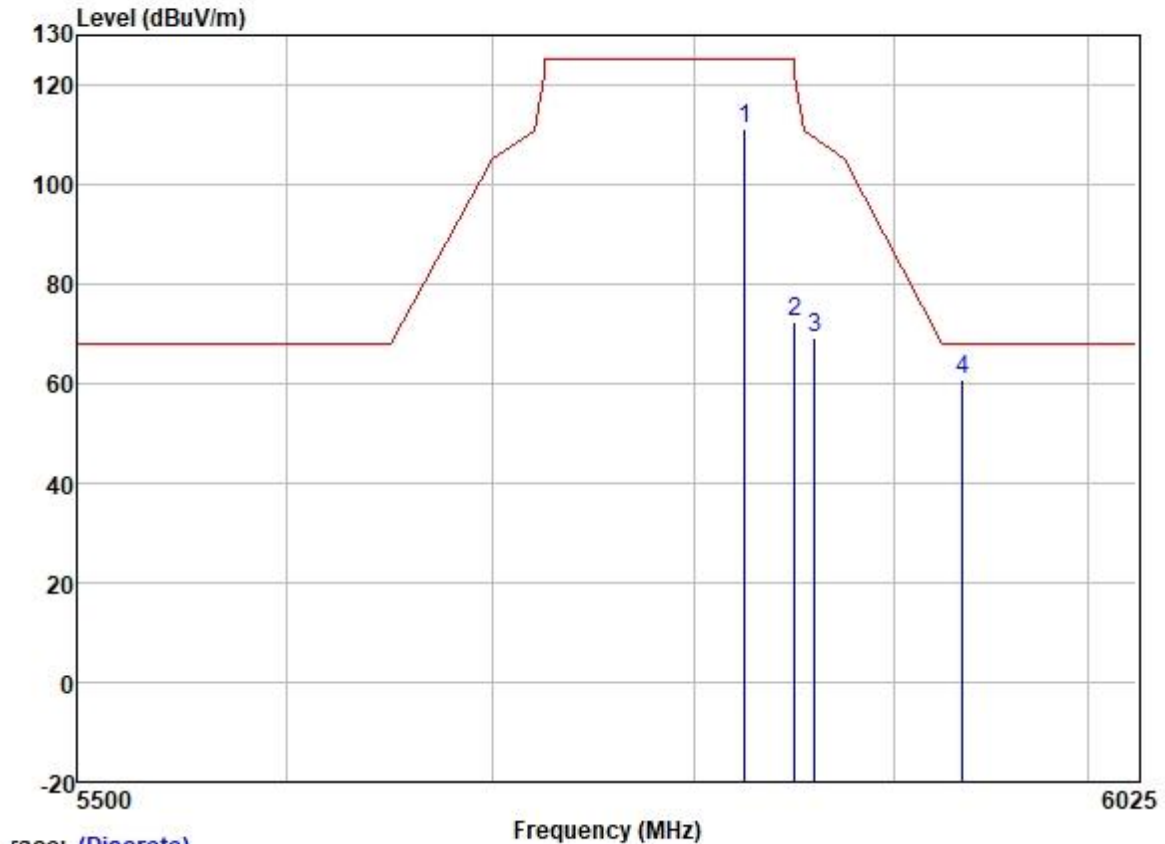
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.119	58.52	31.95	6.35	36.89	59.93	68.20	-8.27	HORIZONTAL	Peak
2	5715.000	70.59	32.04	6.33	36.89	72.07	109.40	-37.33	HORIZONTAL	Peak
3	5725.000	79.71	32.07	6.25	36.89	81.14	122.20	-41.06	HORIZONTAL	Peak
4	5745.000	110.13	32.10	6.20	36.89	111.54	125.20	-13.66	HORIZONTAL	Peak

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



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.135	58.47	31.95	6.35	36.89	59.88	68.20	-8.32	VERTICAL	Peak
2	5715.000	61.68	32.04	6.33	36.89	63.16	109.40	-46.24	VERTICAL	Peak
3	5725.000	69.68	32.07	6.25	36.89	71.11	122.20	-51.09	VERTICAL	Peak
4	5745.000	99.50	32.10	6.20	36.89	100.91	125.20	-24.29	VERTICAL	Peak

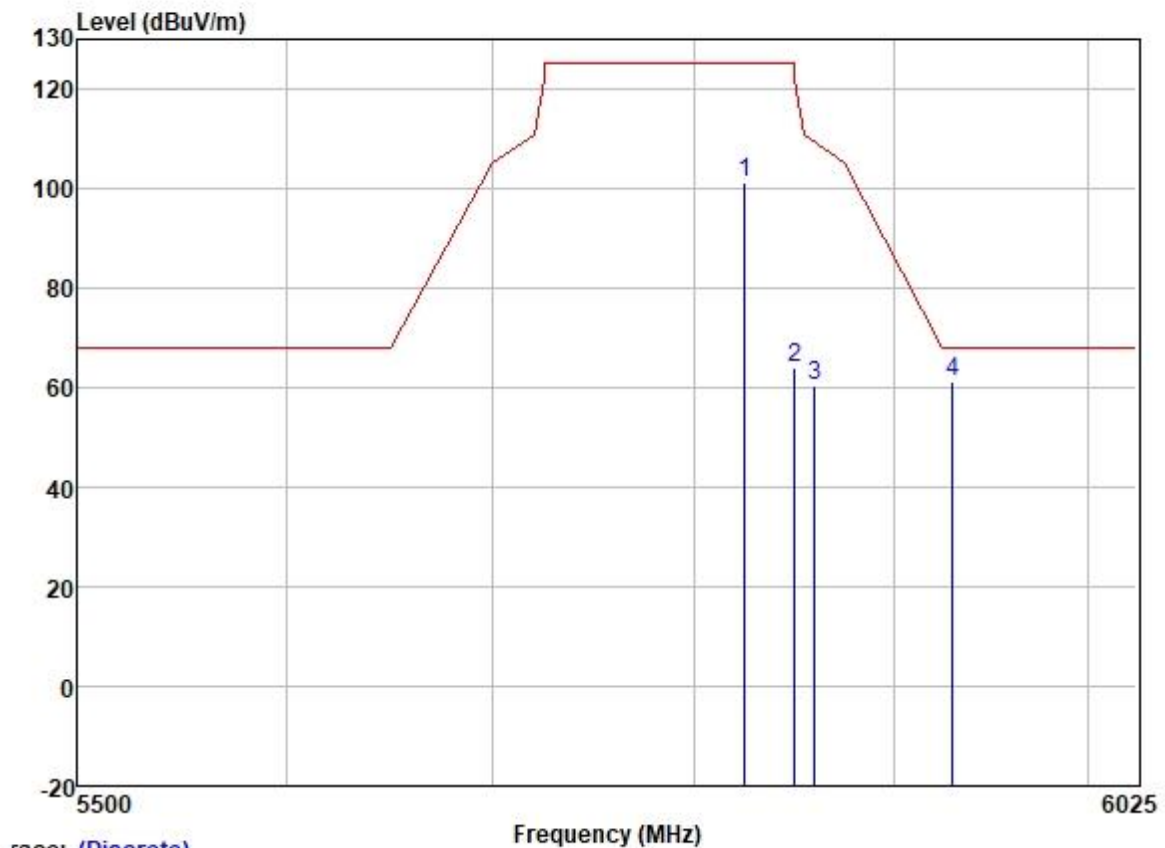
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

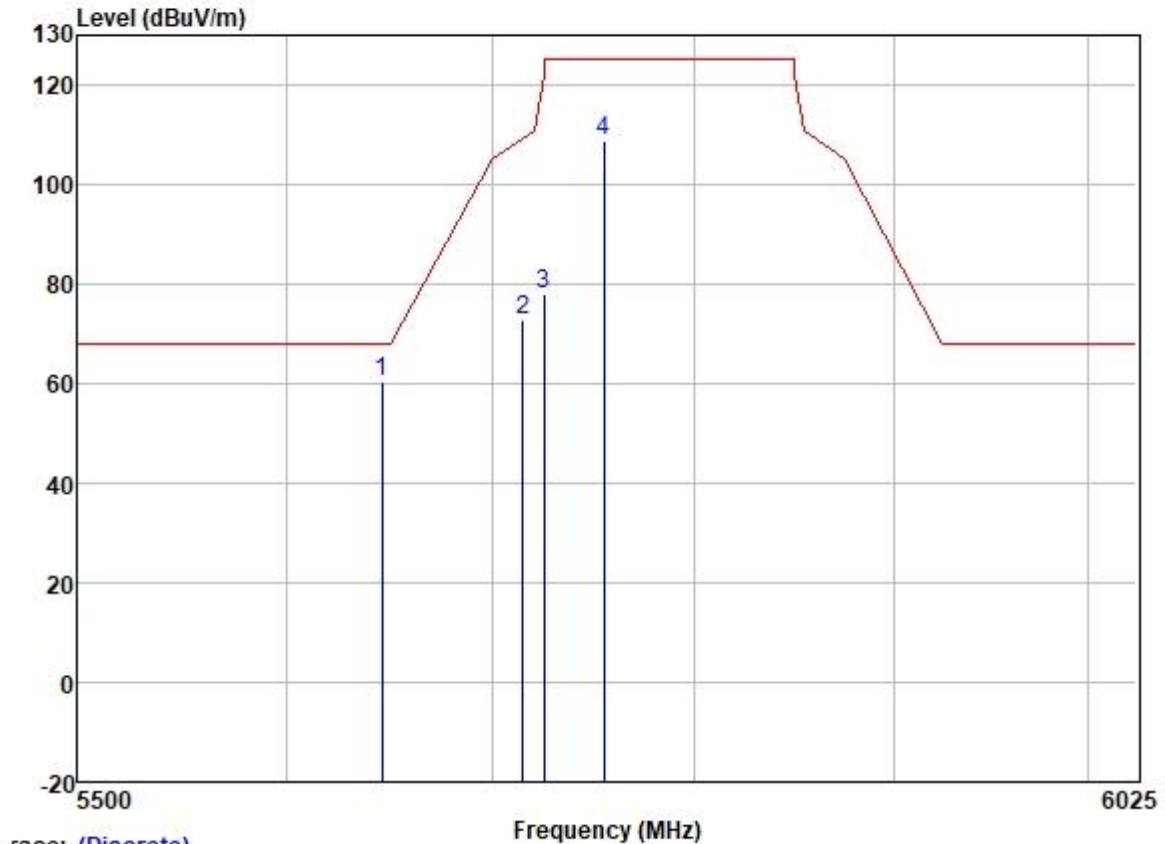
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	109.67	32.23	6.04	36.90	111.04	125.20	-14.16	HORIZONTAL	Peak
2	5850.000	71.08	32.25	6.00	36.90	72.43	122.20	-49.77	HORIZONTAL	Peak
3	5860.000	68.05	32.27	5.96	36.90	69.38	109.40	-40.02	HORIZONTAL	Peak
4	5935.271	59.43	32.34	6.00	36.90	60.87	68.20	-7.33	HORIZONTAL	Peak

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



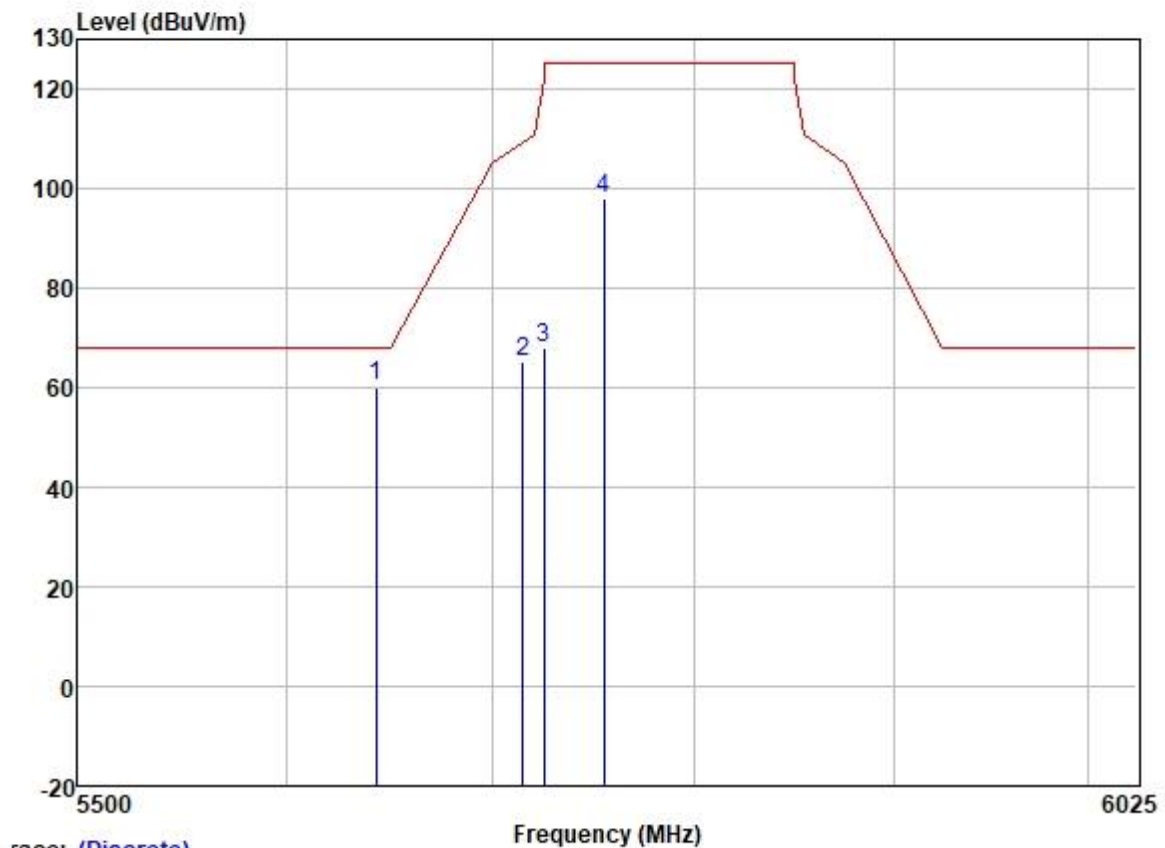
	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5825.000	99.85	32.23	6.04	36.90	101.22	125.20	-23.98	VERTICAL Peak
2	5850.000	62.53	32.25	6.00	36.90	63.88	122.20	-58.32	VERTICAL Peak
3	5860.000	59.17	32.27	5.96	36.90	60.50	109.40	-48.90	VERTICAL Peak
4	5929.942	59.61	32.34	6.00	36.90	61.05	68.20	-7.15	VERTICAL Peak

Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; 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	5646.120	59.09	31.95	6.35	36.89	60.50	68.20	-7.70	HORIZONTAL	Peak
2	5715.000	71.51	32.04	6.33	36.89	72.99	109.40	-36.41	HORIZONTAL	Peak
3	5725.000	76.76	32.07	6.25	36.89	78.19	122.20	-44.01	HORIZONTAL	Peak
4	5755.000	107.48	32.10	6.20	36.89	108.89	125.20	-16.31	HORIZONTAL	Peak

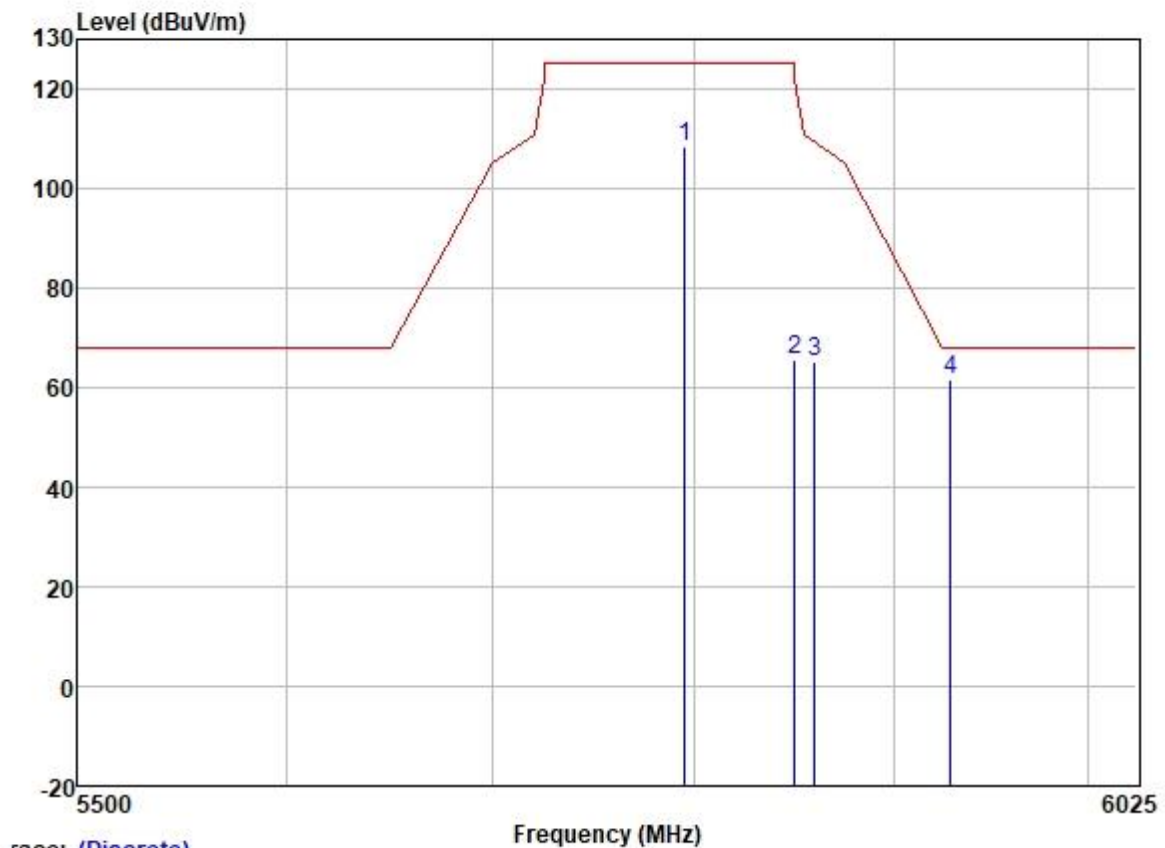
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5642.906	58.79	31.95	6.35	36.89	60.20	68.20	-8.00	VERTICAL	Peak
2	5715.000	63.70	32.04	6.33	36.89	65.18	109.40	-44.22	VERTICAL	Peak
3	5725.000	66.55	32.07	6.25	36.89	67.98	122.20	-54.22	VERTICAL	Peak
4	5755.000	96.47	32.10	6.20	36.89	97.88	125.20	-27.32	VERTICAL	Peak

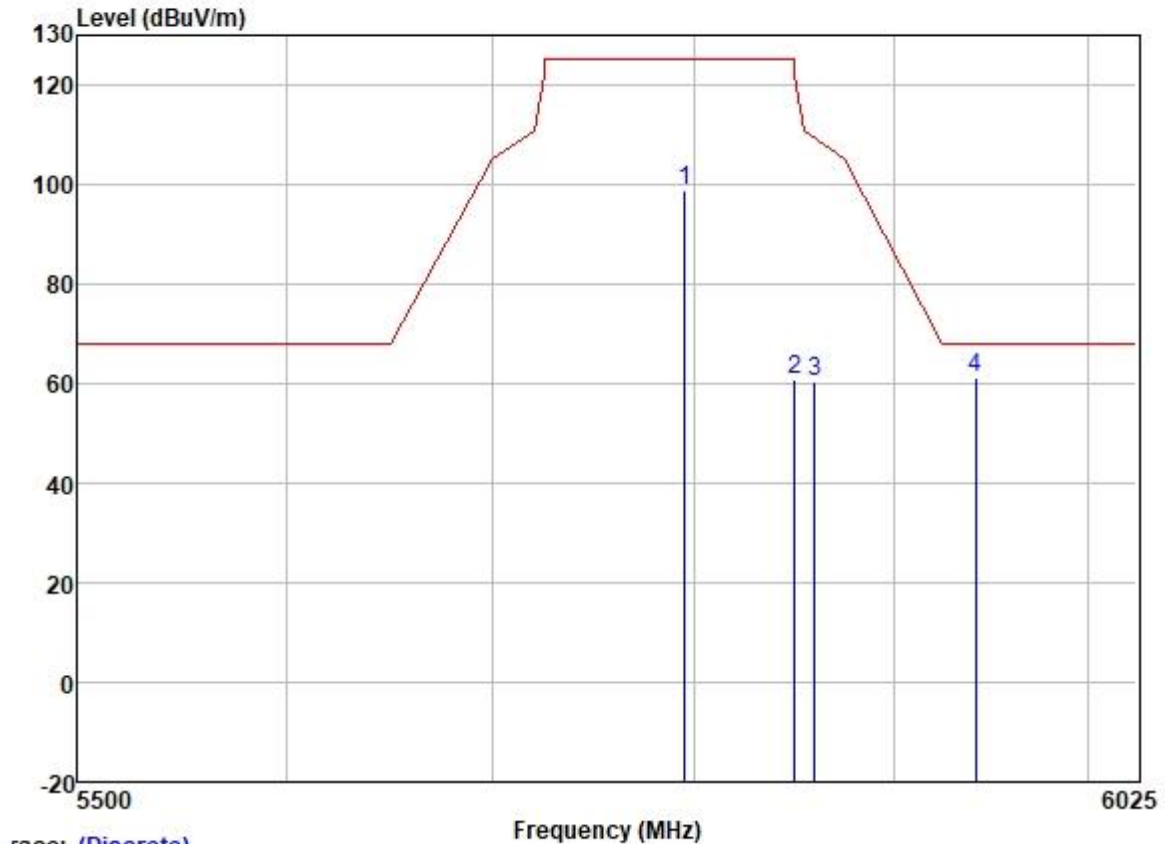
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

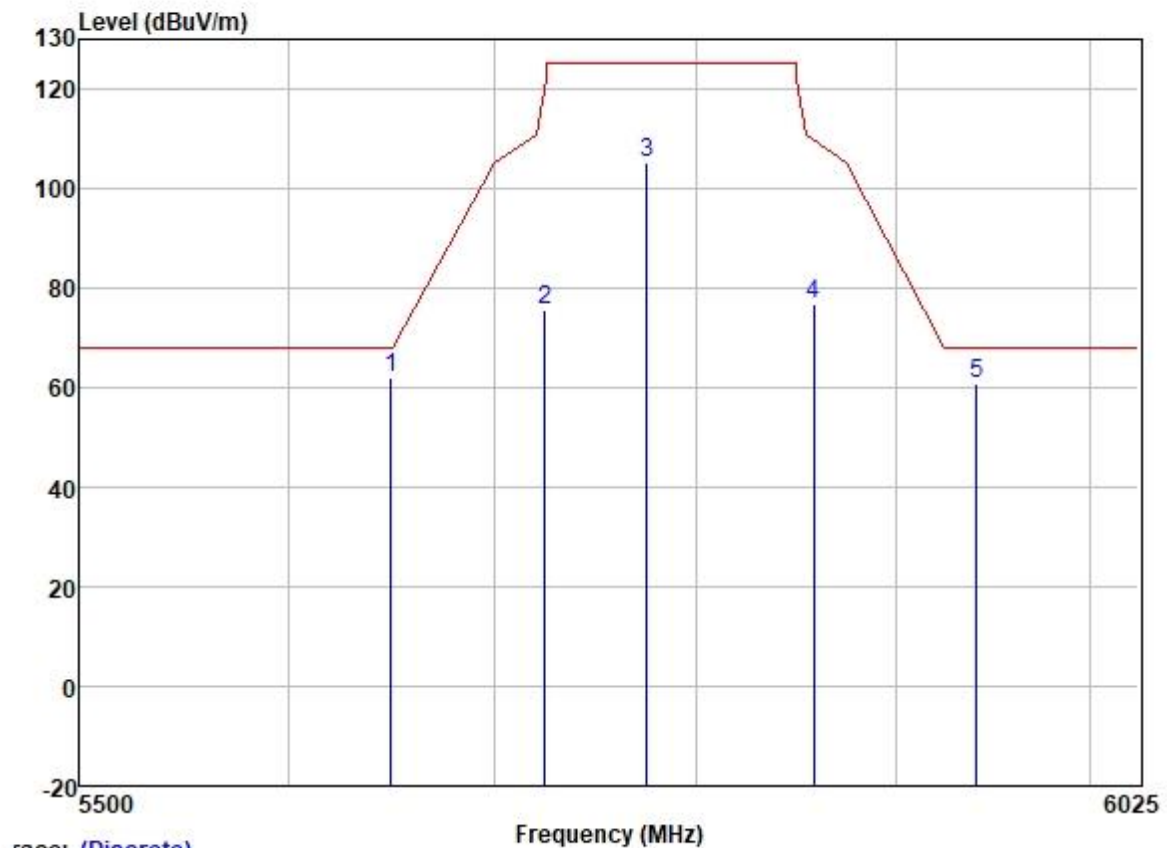
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5795.000	107.15	32.19	6.10	36.89	108.55	125.20	-16.65	HORIZONTAL	Peak
2	5850.000	64.08	32.25	6.00	36.90	65.43	122.20	-56.77	HORIZONTAL	Peak
3	5860.000	63.83	32.27	5.96	36.90	65.16	109.40	-44.24	HORIZONTAL	Peak
4	5928.950	60.20	32.34	6.00	36.90	61.64	68.20	-6.56	HORIZONTAL	Peak

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



	Freq	ReadAntenna	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	5795.000	97.26	32.19	6.10	36.89	98.66	125.20	-26.54	VERTICAL Peak
2	5850.000	59.28	32.25	6.00	36.90	60.63	122.20	-61.57	VERTICAL Peak
3	5860.000	58.88	32.27	5.96	36.90	60.21	109.40	-49.19	VERTICAL Peak
4	5941.949	59.71	32.36	6.05	36.90	61.22	68.20	-6.98	VERTICAL Peak

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



		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	5649.216	60.61	31.95	6.35	36.89	62.02	68.20	-6.18	HORIZONTAL	Peak
2	5724.691	74.02	32.07	6.25	36.89	75.45	121.50	-46.05	HORIZONTAL	Peak
3	5775.000	103.65	32.16	6.10	36.89	105.02	125.20	-20.18	HORIZONTAL	Peak
4	5858.900	75.39	32.27	5.96	36.90	76.72	109.71	-32.99	HORIZONTAL	Peak
5	5941.244	59.17	32.36	6.05	36.90	60.68	68.20	-7.52	HORIZONTAL	Peak