



TEST REPORT

Application No.: GZCR2109021038AT
Applicant: APEMAN INTERNATIONAL CO., LIMITED.
Address of Applicant: Room 126, Building 11, Huanan Avenue No.1 Huanan City International Printing paper packaging, Shenzhen, China
Manufacturer: APEMAN INTERNATIONAL CO., LIMITED.
Address of Manufacturer: Room 126, Building 11, Huanan Avenue No.1 Huanan City International Printing paper packaging, Shenzhen, China
Factory: Sky Light Electronic (Shenzhen) Limited
Address of Factory: No. 8 & 9 Building, Antuoshan High-tech Industrial Park, Xinsha Road, Shajing, Bao'An, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: SEEKER Action Camera
Model No.: SEEKER ONE
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-09-01
Date of Test: 2021-09-02 to 2021-09-08
Date of Issue: 2021-09-09

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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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 E 15.407 (c)	Pass
Frequency Stability		KDB 789033 II A 3	47 CFR Part 15, Subpart E 15.407 (g)	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 & E 15.407 b(6)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 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 E 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 E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & E 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 & E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass

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.

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.85V 1200mAh rechargeable Li-ion battery (to be charged from Type C port)
Test Voltage:	AC 120V, 60Hz
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11a/n(HT20)/ac(HT20): 20MHz;
Channel Spacing:	802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	-1.78dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	N/A
Type-C Cable	SGS	N/A	N/A

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions	±5.06dB (30MHz-1GHz ; 3m) ±4.46dB (30MHz-1GHz ; 10m) ±5.08dB (1GHz-6GHz) ±5.14dB (above 6GHz)
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)
Frequency Stability	± 7.25 x 10 ⁻⁸

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
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No tests were sub-contracted.

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4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

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

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60061 and Rules of procedure IEC60062, and the relevant IEC60065 CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021/6/1	2022/5/31

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

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

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Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

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

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

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

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Radiated Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable (Above 1GHz)	Scoflex	KMKG-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	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-28	2022-07-27
Signal Analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020/11/13	2021-11-12

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	KMKG-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	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-28	2022-07-27
Signal Analyzer (20Hz-26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020/11/13	2021/11/12

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26dB Emission bandwidth

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Channel Move Time

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

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Channel Closing Transmission Time

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

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

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna -1.78dBi.

Antenna location: Refer to internal photo.

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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling 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:

Wi-Fi 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.

6.3 Frequency Stability

6.3.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (g)

6.3.2 Conclusion

The grantee declared that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual, it comply the frequency stability requirement.

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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 & E 15.407 b(6)

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 50.3 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of

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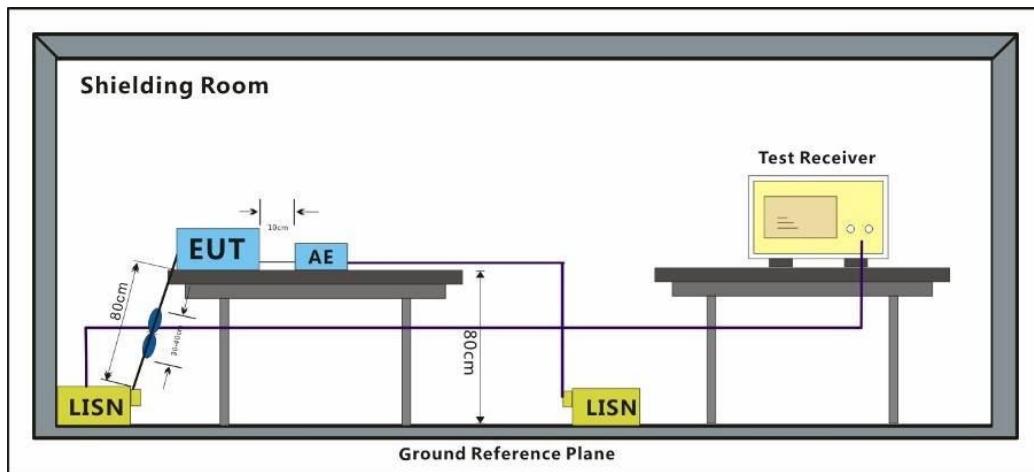


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IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

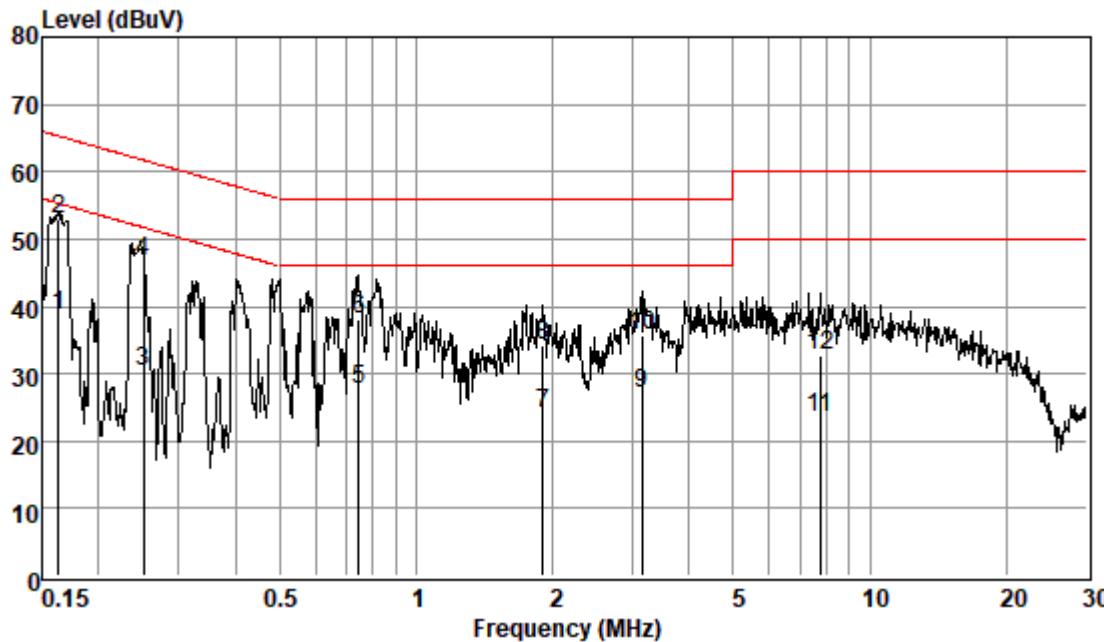
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

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Test Mode: 04; Line: Live line; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Pol :LINE

Mode :

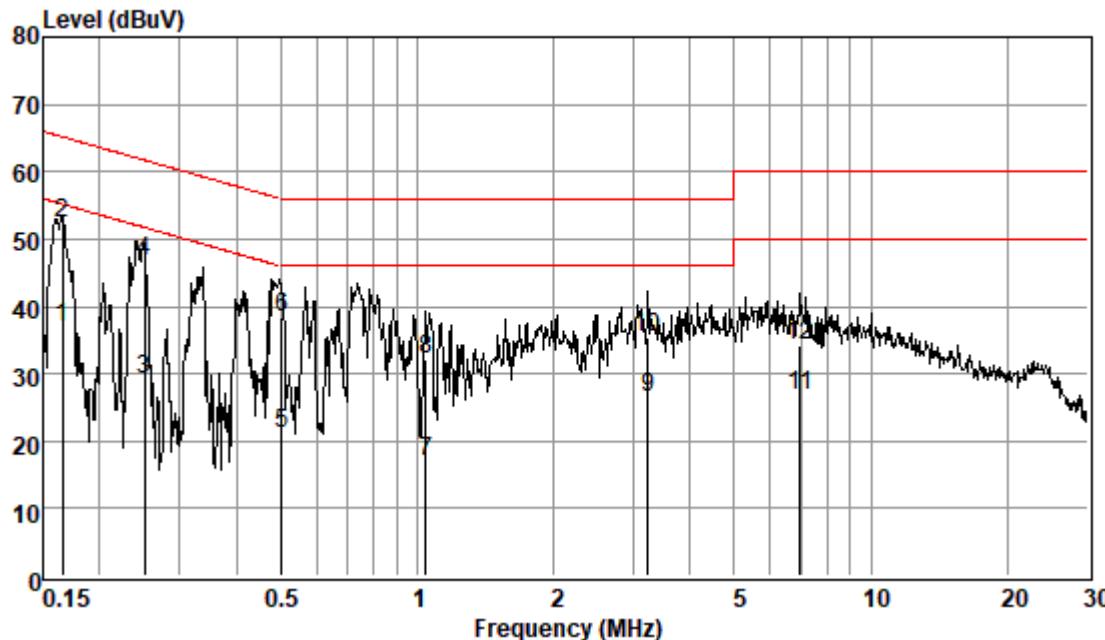
Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	29.02	0.06	9.62	38.70	55.30	-16.60	Average
0.16	43.23	0.06	9.62	52.91	65.30	-12.39	QP
0.25	20.65	0.06	9.62	30.33	51.73	-21.40	Average
0.25	36.96	0.06	9.62	46.64	61.73	-15.09	QP
0.75	17.91	0.07	9.63	27.61	46.00	-18.39	Average
0.75	28.23	0.07	9.63	37.93	56.00	-18.07	QP
1.90	14.42	0.11	9.62	24.15	46.00	-21.85	Average
1.90	24.35	0.11	9.62	34.08	56.00	-21.92	QP
3.14	17.16	0.15	9.62	26.93	46.00	-19.07	Average
3.14	25.88	0.15	9.62	35.65	56.00	-20.35	QP
7.77	13.59	0.21	9.68	23.48	50.00	-26.52	Average
7.77	22.79	0.21	9.68	32.68	60.00	-27.32	QP

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Test Mode: 04; Line: Neutral Line; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Pol :NEUTRAL

Mode :

Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.17	27.40	0.06	9.55	37.01	55.16	-18.15	Average
0.17	42.75	0.06	9.55	52.36	65.16	-12.80	QP
0.25	19.57	0.06	9.55	29.18	51.73	-22.55	Average
0.25	36.94	0.06	9.55	46.55	61.73	-15.18	QP
0.50	11.41	0.07	9.55	21.03	46.00	-24.97	Average
0.50	28.67	0.07	9.55	38.29	56.00	-17.71	QP
1.04	7.24	0.07	9.55	16.86	46.00	-29.14	Average
1.04	22.35	0.07	9.55	31.97	56.00	-24.03	QP
3.22	16.85	0.15	9.56	26.56	46.00	-19.44	Average
3.22	25.69	0.15	9.56	35.40	56.00	-20.60	QP
6.99	17.04	0.21	9.58	26.83	50.00	-23.17	Average
6.99	24.54	0.21	9.58	34.33	60.00	-25.67	QP

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7.2 Duty Cycle

Test Requirement: KDB 789033 D02 II B 1
Test Method: KDB 789033 D02 II B 2

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 55.4 % RH Atmospheric Pressure: 1008 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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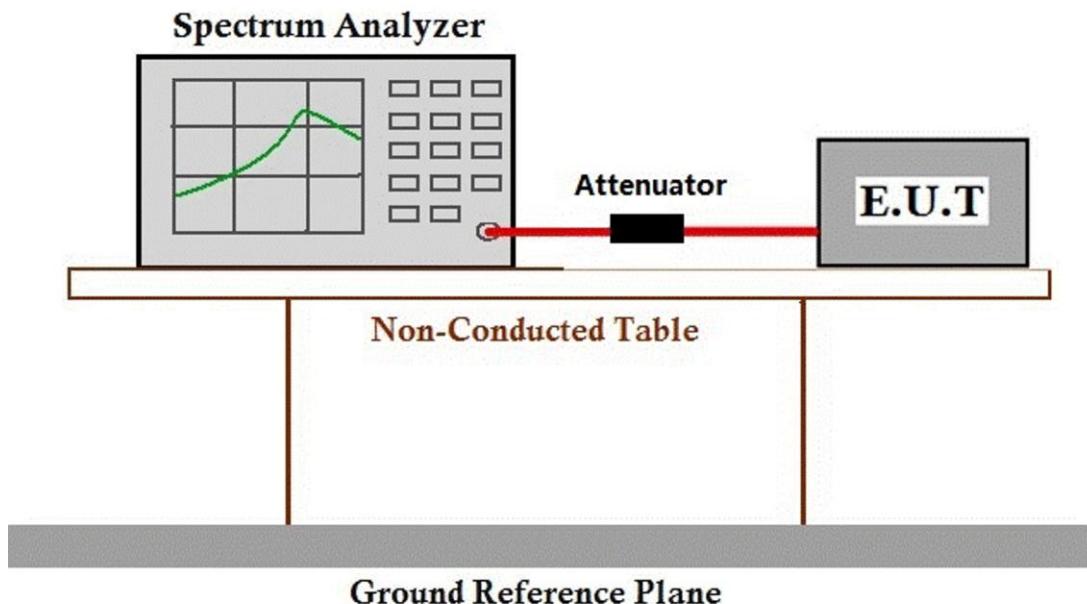
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7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

Please Refer To Appendix For Details

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7.3 99% Bandwidth

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 55.4 % RH Atmospheric Pressure: 1008 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

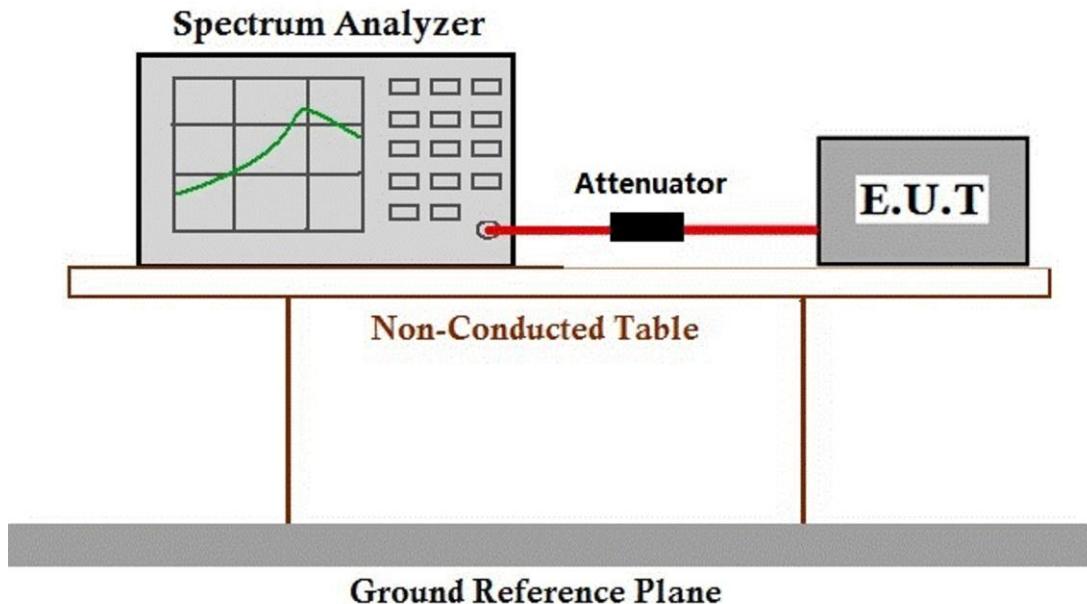
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7.3.3 Test Setup Diagram**7.3.4 Measurement Procedure and Data**

Please Refer To Appendix For Details

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7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 55.4 % RH Atmospheric Pressure: 1008 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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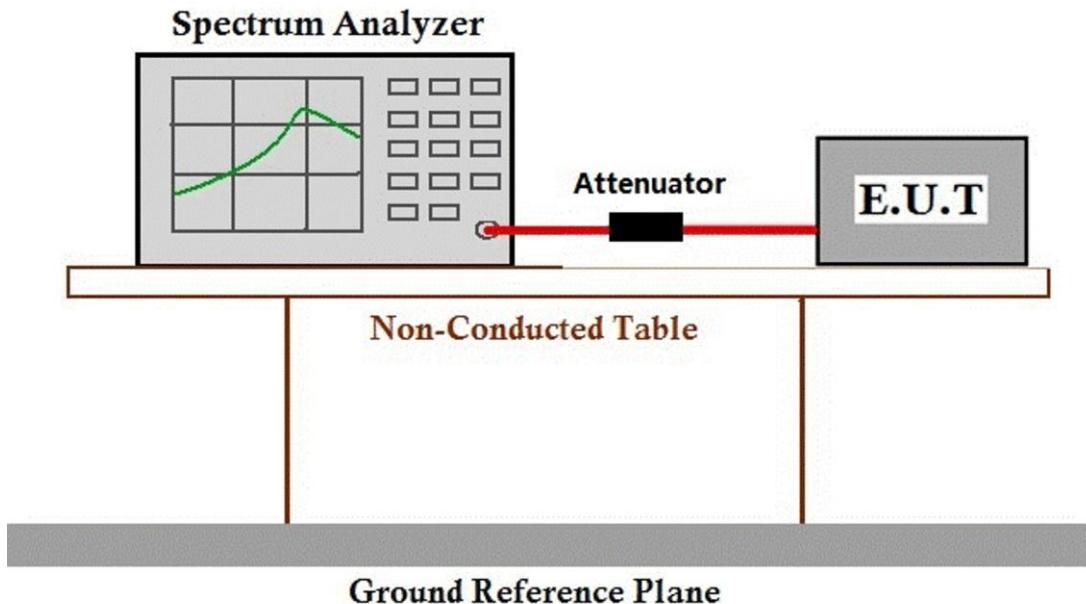
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7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

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

Test Requirement 47 CFR Part 15, Subpart E 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: 25.2 °C Humidity: 55.4 % RH Atmospheric Pressure: 1008 mbar

7.5.2 Test Mode Description

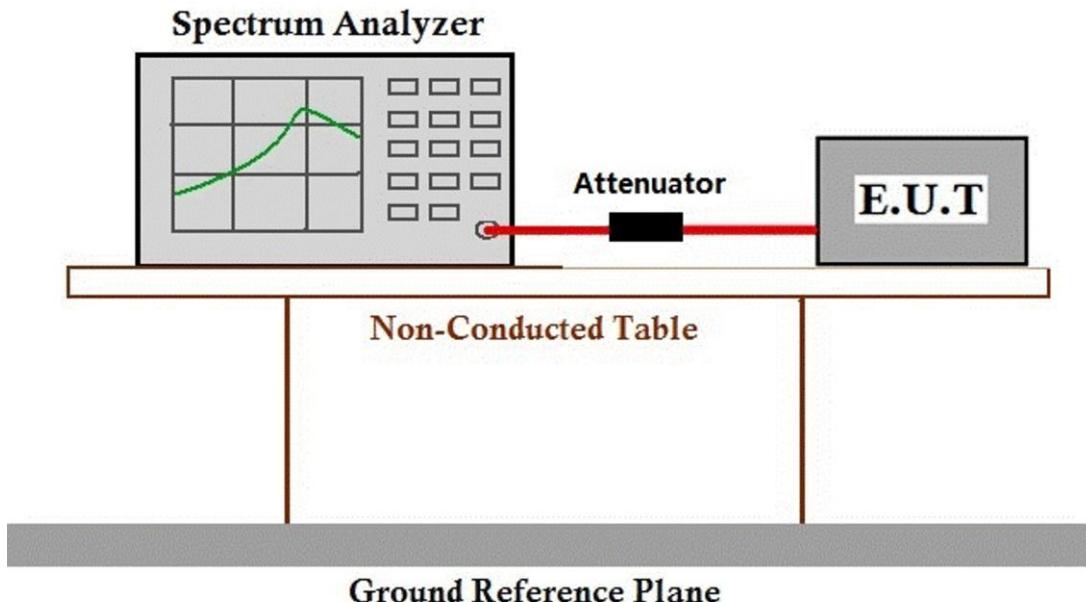
Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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

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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 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: 25.2 °C

Humidity: 55.4 % RH

Atmospheric Pressure: 1008 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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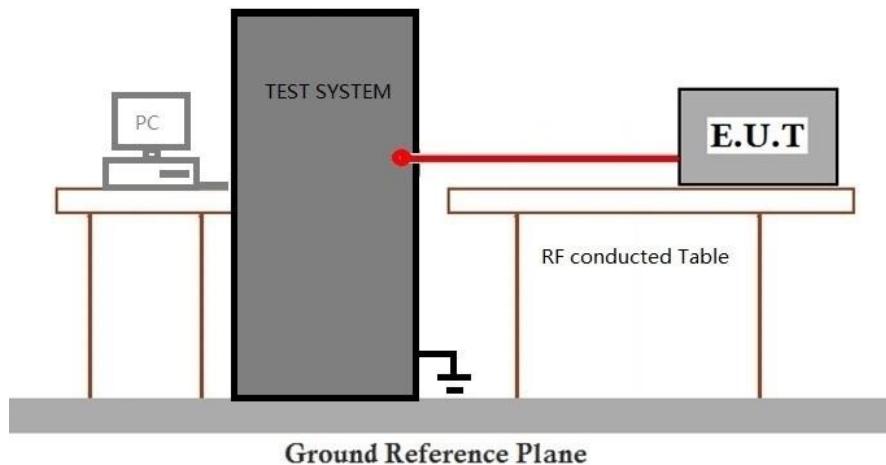
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Final test 07

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

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 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: 25.2 °C Humidity: 55.4 % RH Atmospheric Pressure: 1008 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation

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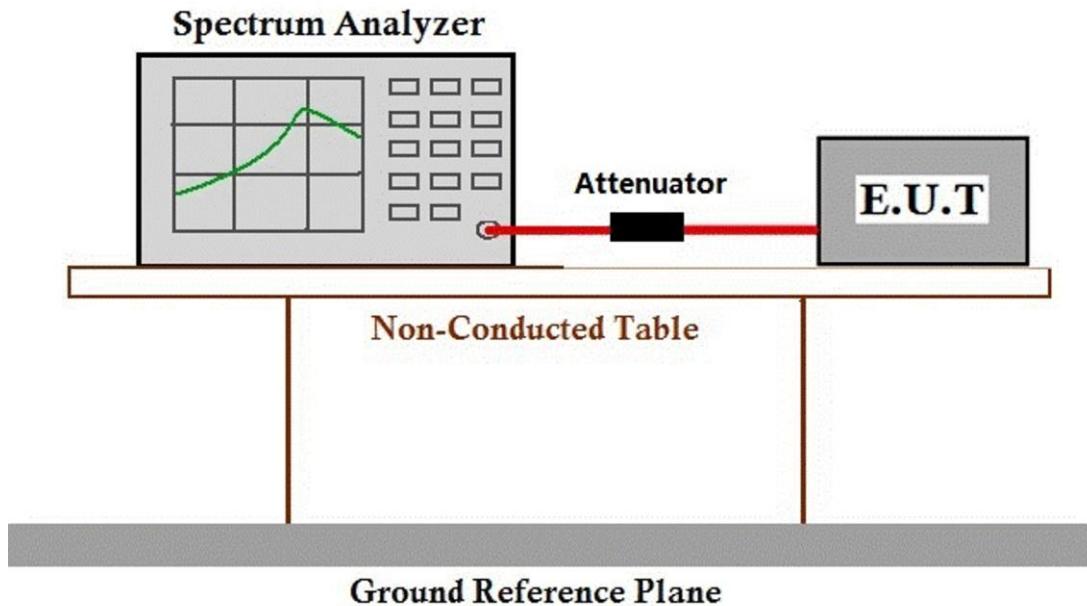


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type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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7.8 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & E 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.

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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 52.5 % RH Atmospheric Pressure: 1008 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	06	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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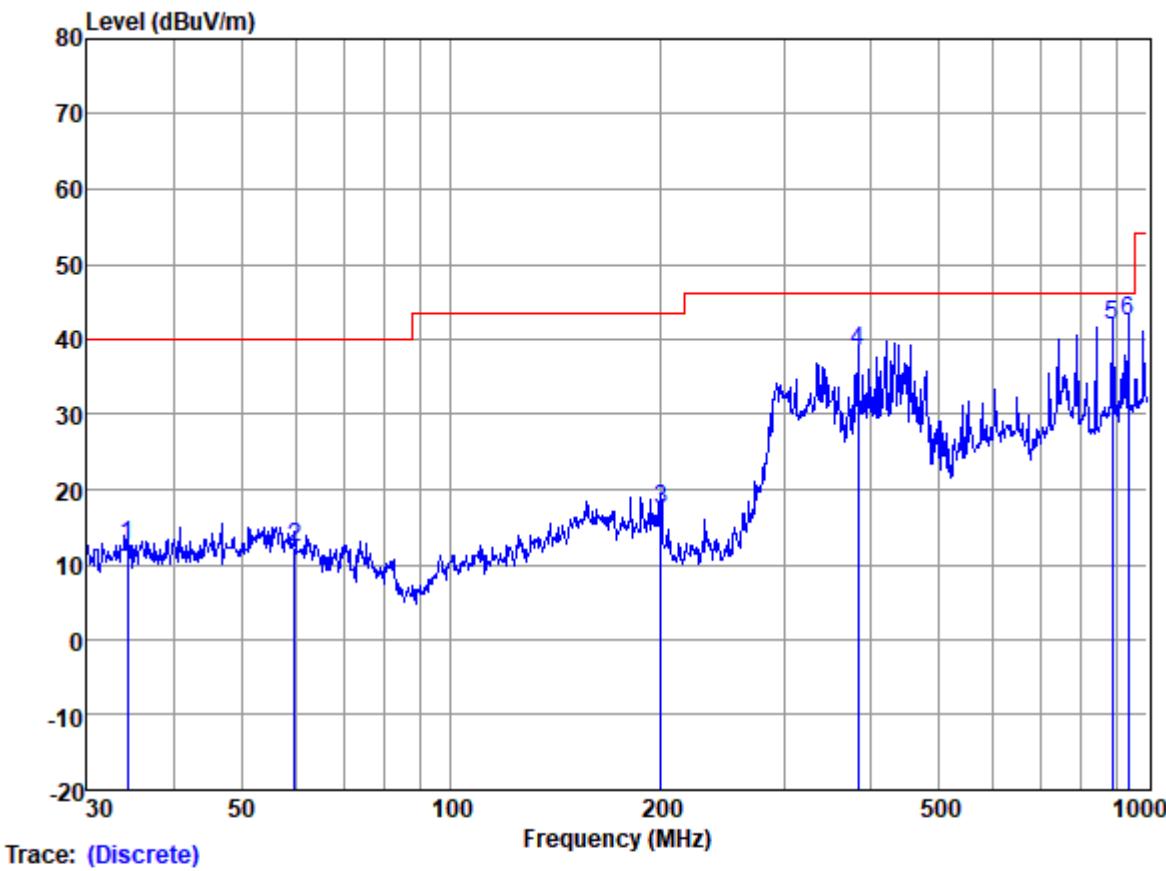


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
<hr/>									
1	34.28	25.81	12.82	1.06	27.18	12.51	40.00	-27.49	HORIZONTAL
2	59.65	24.77	13.44	1.25	27.16	12.30	40.00	-27.70	HORIZONTAL
3	199.99	31.38	10.20	2.52	26.73	17.37	43.50	-26.13	HORIZONTAL
4	383.93	46.19	15.50	3.87	27.26	38.30	46.00	-7.70	HORIZONTAL
5	890.73	39.86	23.10	6.86	27.86	41.96	46.00	-4.04	HORIZONTAL
6	938.83	39.16	23.80	7.12	27.78	42.30	46.00	-3.70	HORIZONTAL

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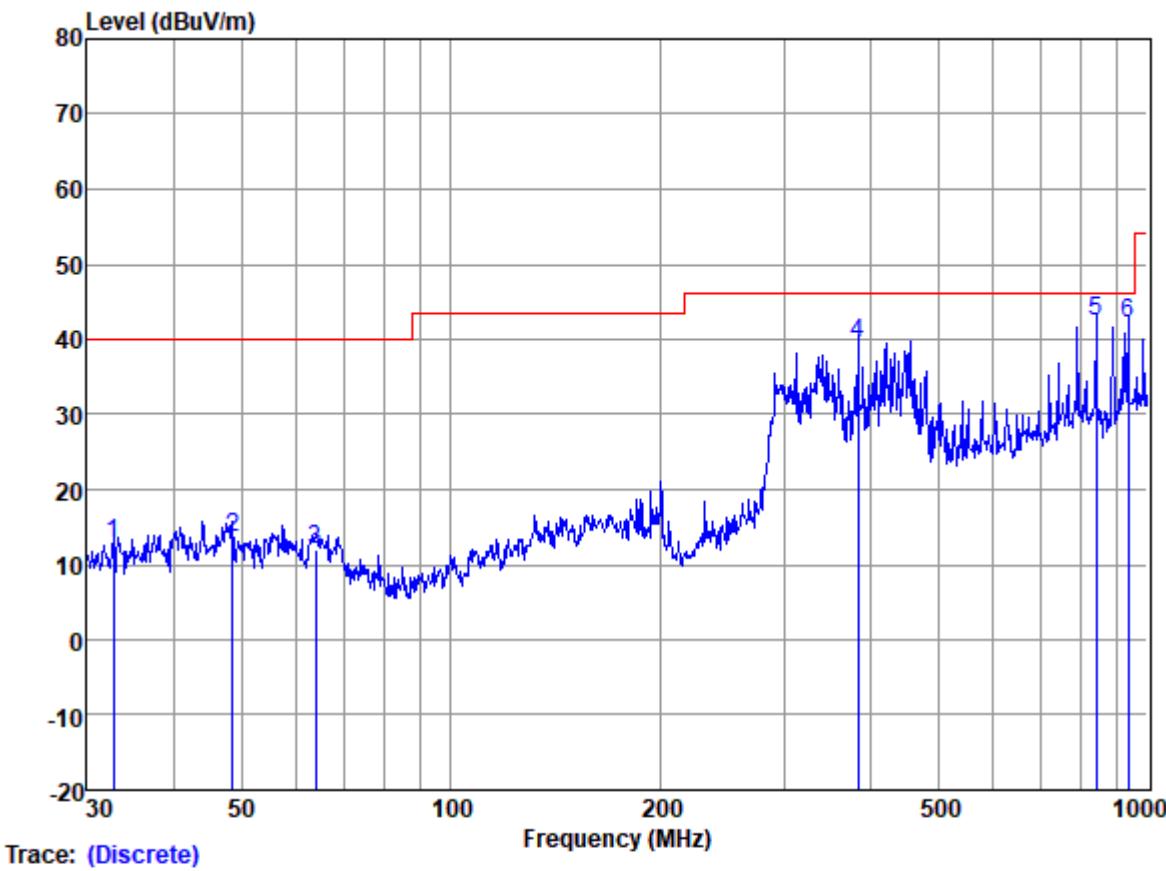
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	32.75	26.12	12.74	1.05	27.19	12.72	40.00	-27.28	VERTICAL
2	48.50	25.67	13.98	1.14	27.17	13.62	40.00	-26.38	VERTICAL
3	63.98	24.97	12.90	1.32	27.15	12.04	40.00	-27.96	VERTICAL
4	383.93	47.36	15.50	3.87	27.26	39.47	46.00	-6.53	VERTICAL
5	842.13	41.29	22.72	6.46	27.96	42.51	46.00	-3.49	VERTICAL
6	938.83	39.02	23.80	7.12	27.78	42.16	46.00	-3.84	VERTICAL

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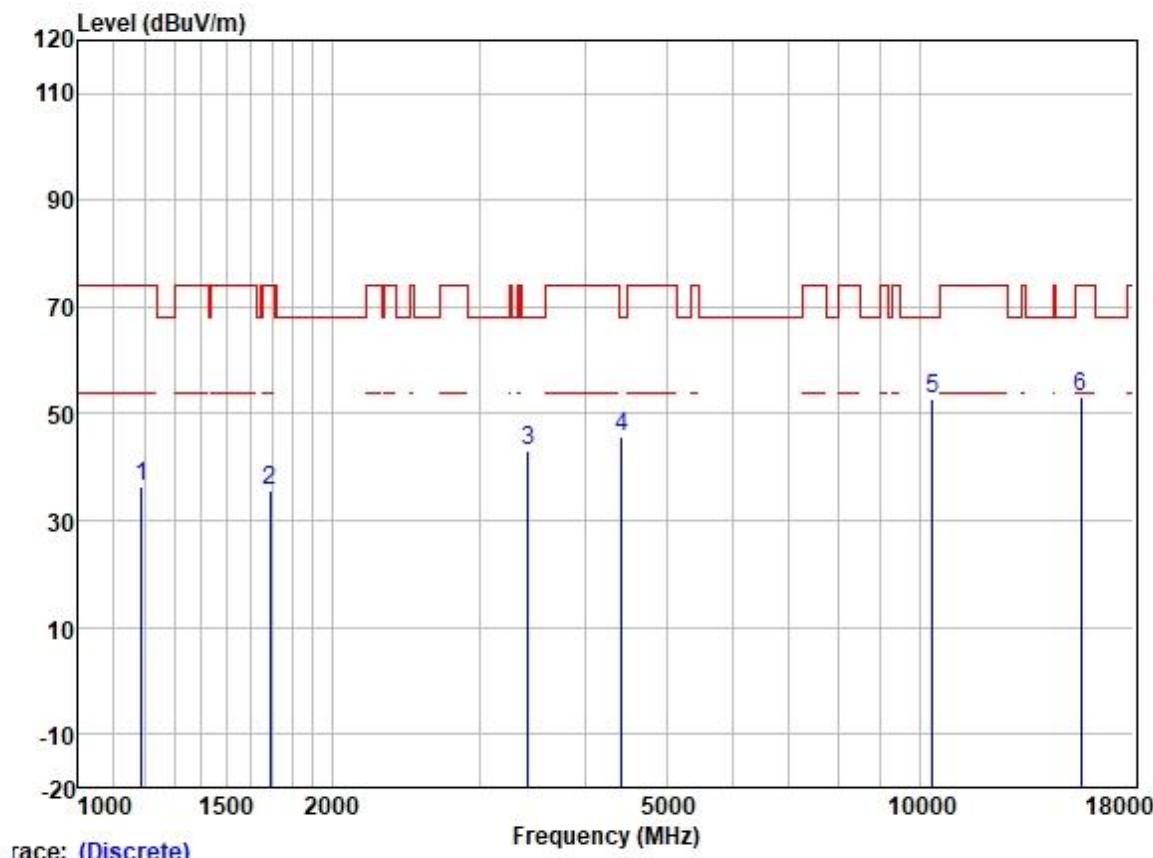
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB		
	MHz	dBuV	dB/m								
1	1189.368	47.93	24.63	2.36	38.39	36.53	74.00	-37.47	HORIZONTAL	Peak	
2	1692.231	44.86	25.70	2.80	37.89	35.47	74.00	-38.53	HORIZONTAL	Peak	
3	3425.675	46.92	28.86	4.15	36.97	42.96	68.20	-25.24	HORIZONTAL	Peak	
4	4430.628	46.92	30.72	4.78	36.81	45.61	68.20	-22.59	HORIZONTAL	Peak	
5	10360.000	43.65	39.28	7.29	37.37	52.85	68.20	-15.35	HORIZONTAL	Peak	
6	15540.000	39.47	39.05	9.88	35.39	53.01	74.00	-20.99	HORIZONTAL	Peak	

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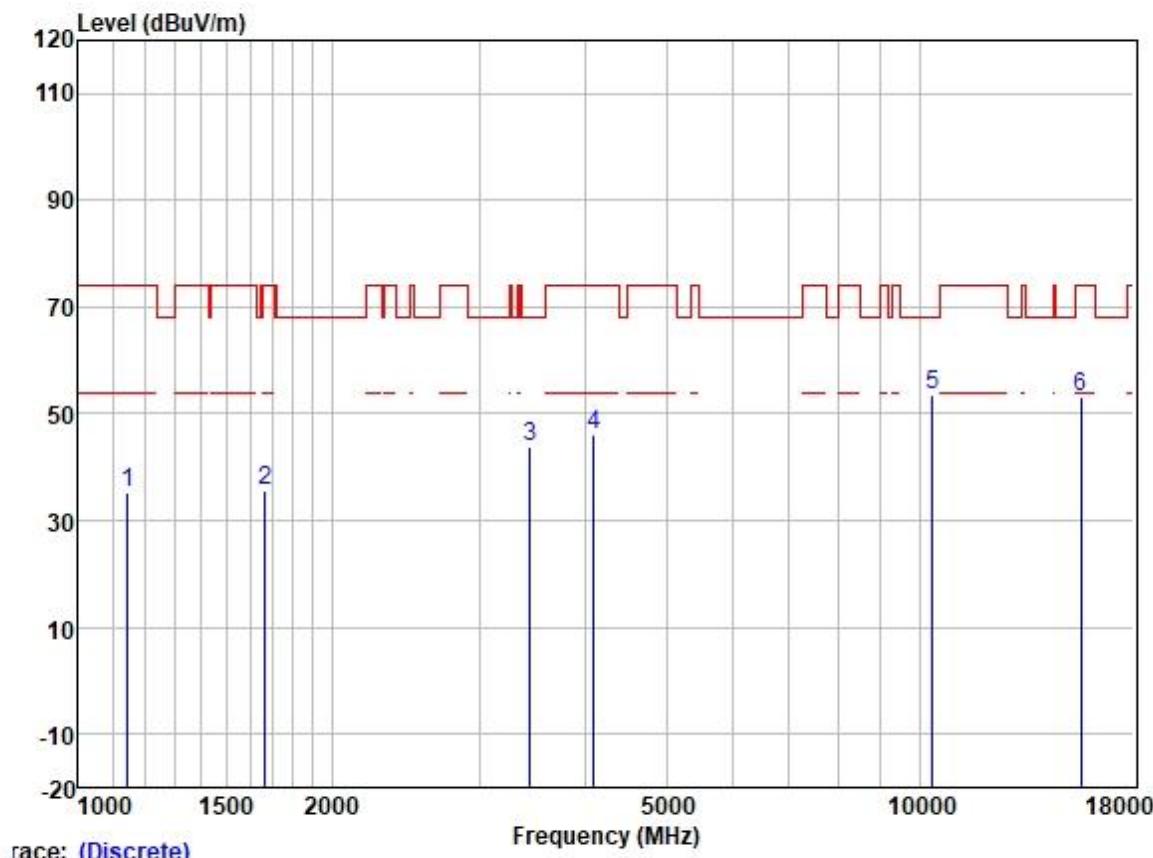


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1145.507	46.94	24.48	2.32	38.42	35.32	74.00	-38.68	VERTICAL	Peak		
2	1667.951	44.90	25.66	2.80	37.91	35.45	74.00	-38.55	VERTICAL	Peak		
3	3445.535	47.73	28.87	4.18	36.96	43.82	68.20	-24.38	VERTICAL	Peak		
4	4098.010	48.52	29.94	4.60	36.80	46.26	74.00	-27.74	VERTICAL	Peak		
5	10360.000	44.52	39.28	7.29	37.37	53.72	68.20	-14.48	VERTICAL	Peak		
6	15540.000	39.65	39.05	9.88	35.39	53.19	74.00	-20.81	VERTICAL	Peak		

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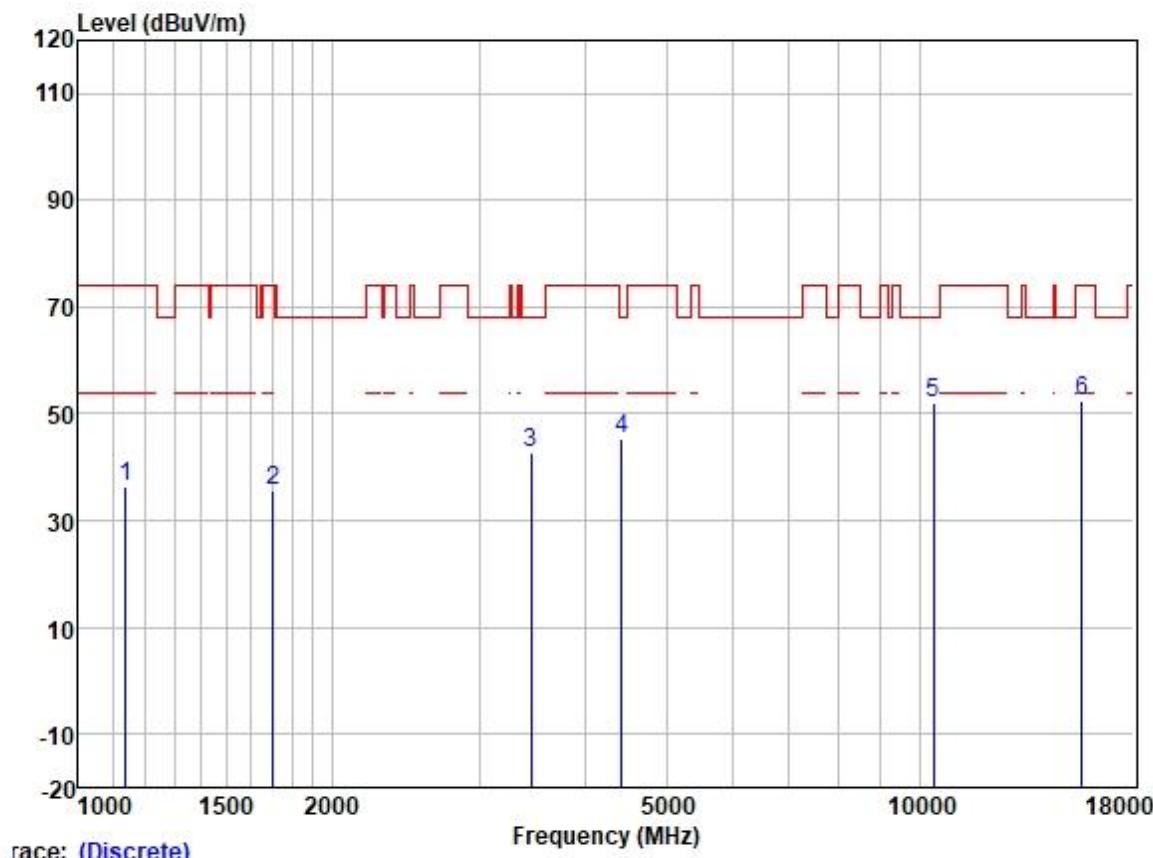
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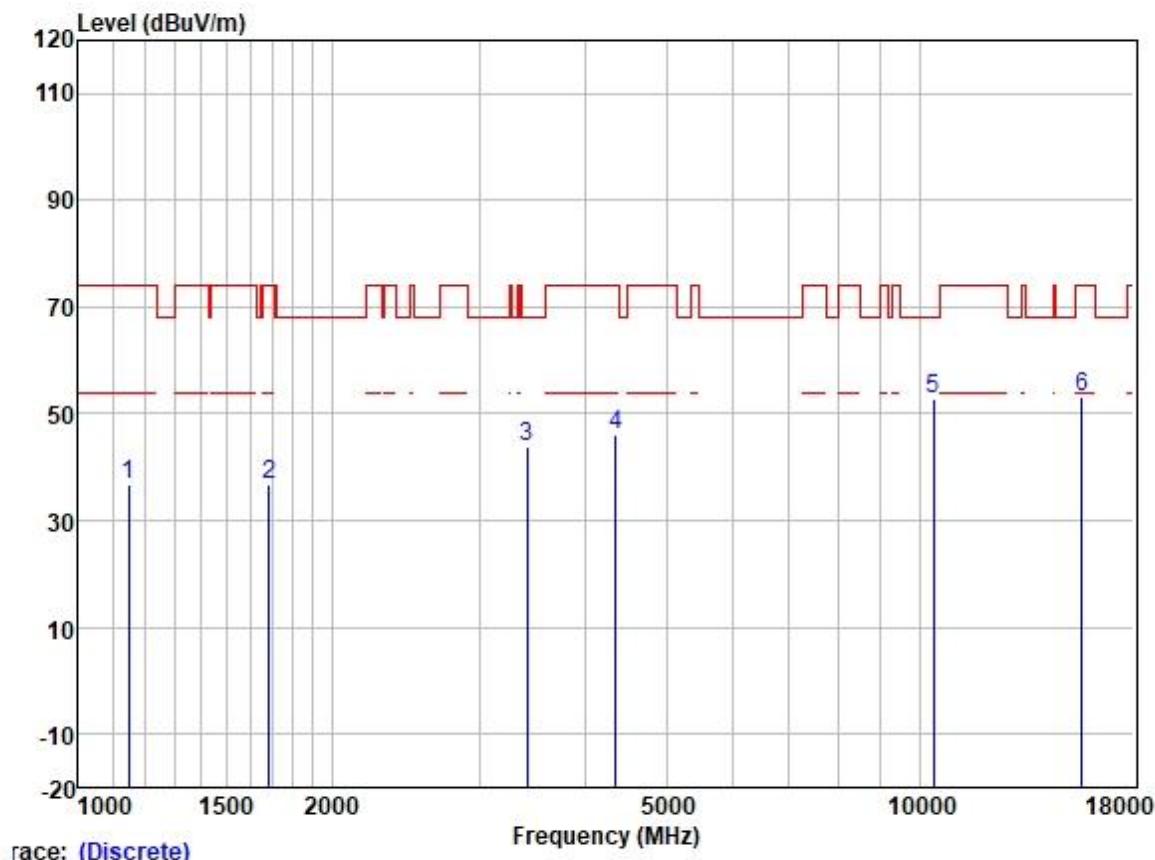
Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



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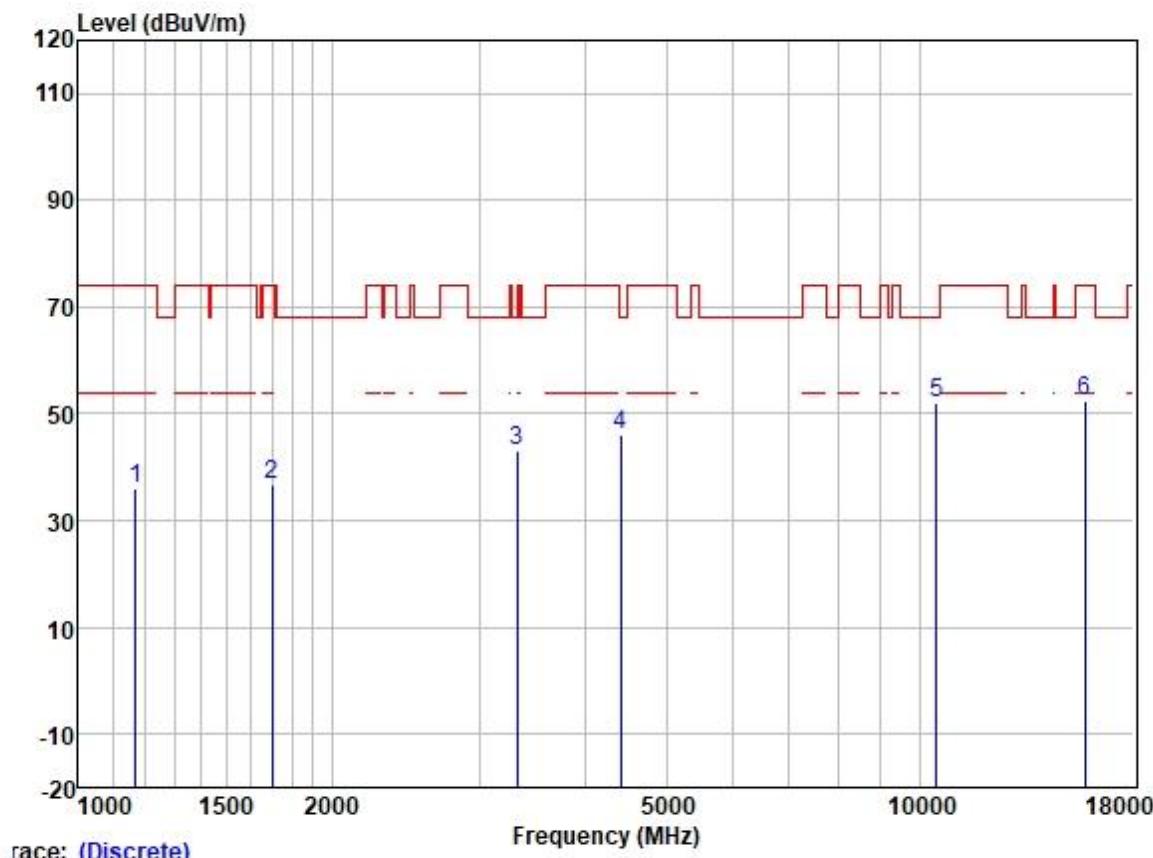
Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



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



Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit		Over	Limit	Pol/Phase	Remark
				Freq	Level	Factor	Loss	Factor	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1168.920	47.50	24.55	2.39	38.40	36.04	74.00	-37.96	HORIZONTAL Peak
2	1697.129	45.96	25.71	2.80	37.89	36.58	74.00	-37.42	HORIZONTAL Peak
3	3328.077	47.27	28.78	4.07	37.02	43.10	68.20	-25.10	HORIZONTAL Peak
4	4417.841	47.50	30.70	4.74	36.81	46.13	68.20	-22.07	HORIZONTAL Peak
5	10480.000	42.63	39.46	7.40	37.36	52.13	68.20	-16.07	HORIZONTAL Peak
6	15720.000	39.17	38.78	9.87	35.39	52.43	74.00	-21.57	HORIZONTAL Peak

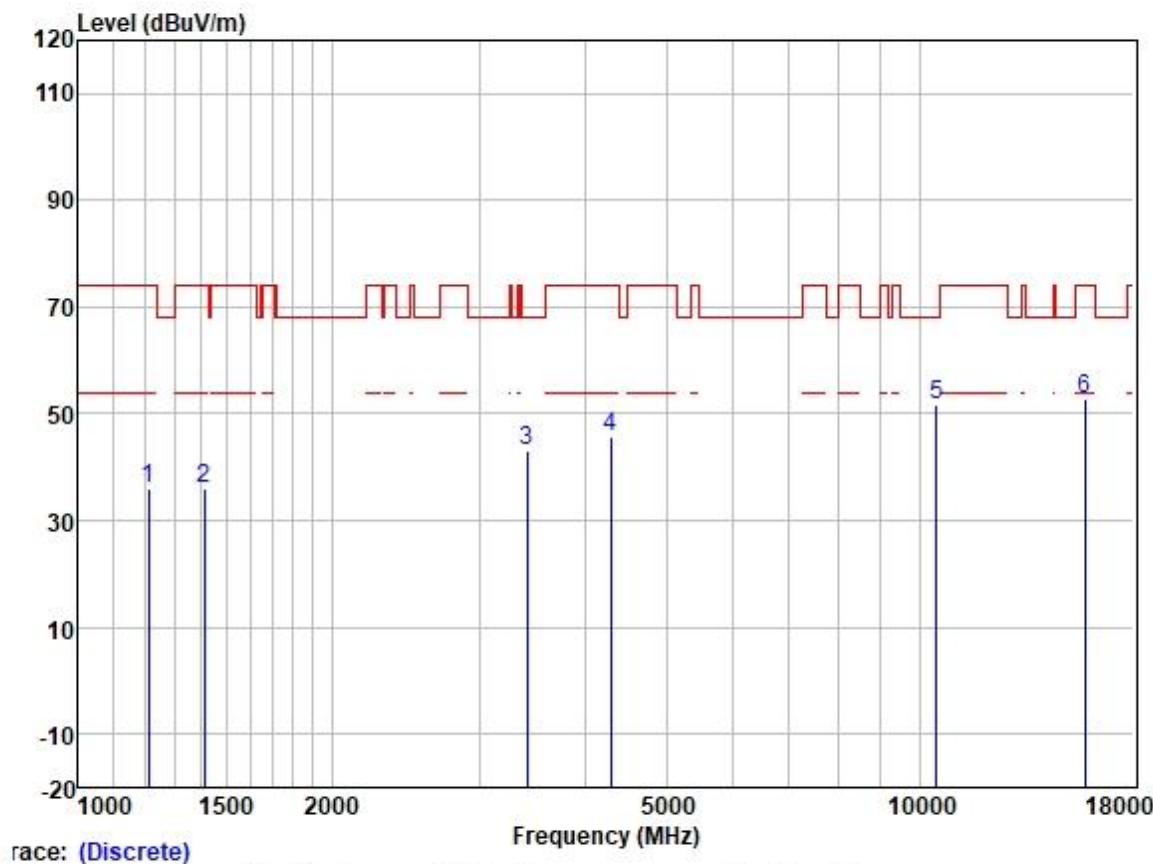
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1210.174	47.16	24.74	2.33	38.39	35.84	74.00	-38.16	VERTICAL	Peak	
2	1410.514	46.05	25.40	2.62	38.22	35.85	74.00	-38.15	VERTICAL	Peak	
3	3415.787	47.20	28.85	4.13	36.97	43.21	68.20	-24.99	VERTICAL	Peak	
4	4291.977	47.58	30.45	4.64	36.81	45.86	74.00	-28.14	VERTICAL	Peak	
5	10480.000	42.12	39.46	7.40	37.36	51.62	68.20	-16.58	VERTICAL	Peak	
6	15720.000	39.58	38.78	9.87	35.39	52.84	74.00	-21.16	VERTICAL	Peak	

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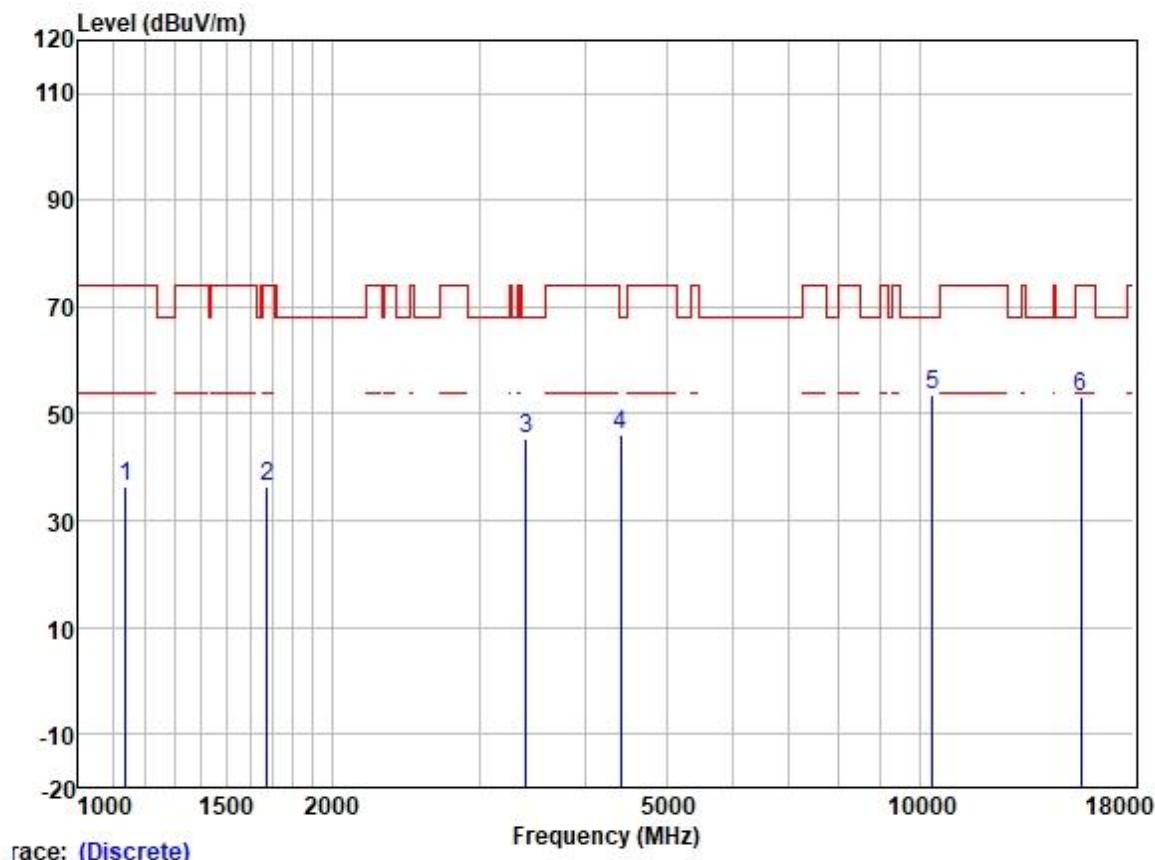
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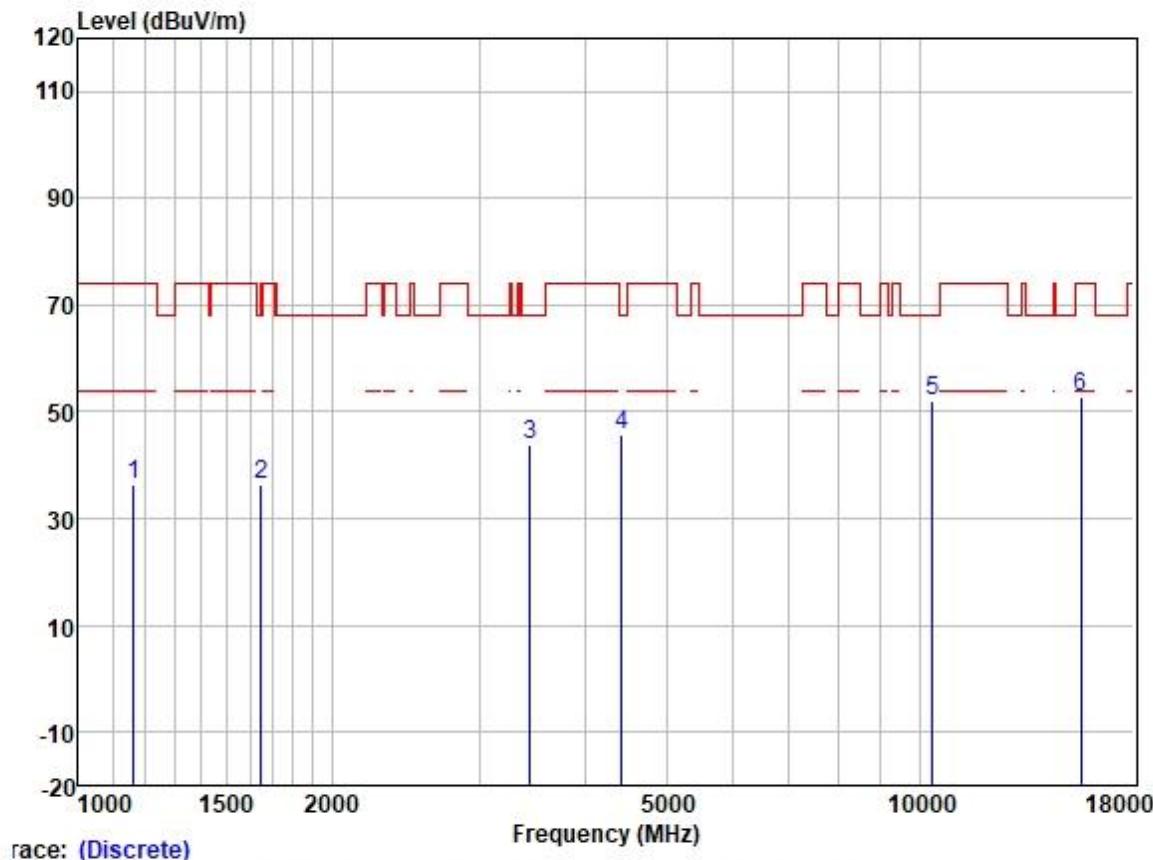
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1	1162.182	47.78	24.53	2.40	38.42	36.29	74.00	-37.71	VERTICAL	Peak	
2	1648.778	45.70	25.63	2.80	37.93	36.20	68.20	-32.00	VERTICAL	Peak	
3	3445.535	47.71	28.87	4.18	36.96	43.80	68.20	-24.40	VERTICAL	Peak	
4	4430.628	46.98	30.72	4.78	36.81	45.67	68.20	-22.53	VERTICAL	Peak	
5	10360.000	42.89	39.28	7.29	37.37	52.09	68.20	-16.11	VERTICAL	Peak	
6	15540.000	39.13	39.05	9.88	35.39	52.67	74.00	-21.33	VERTICAL	Peak	

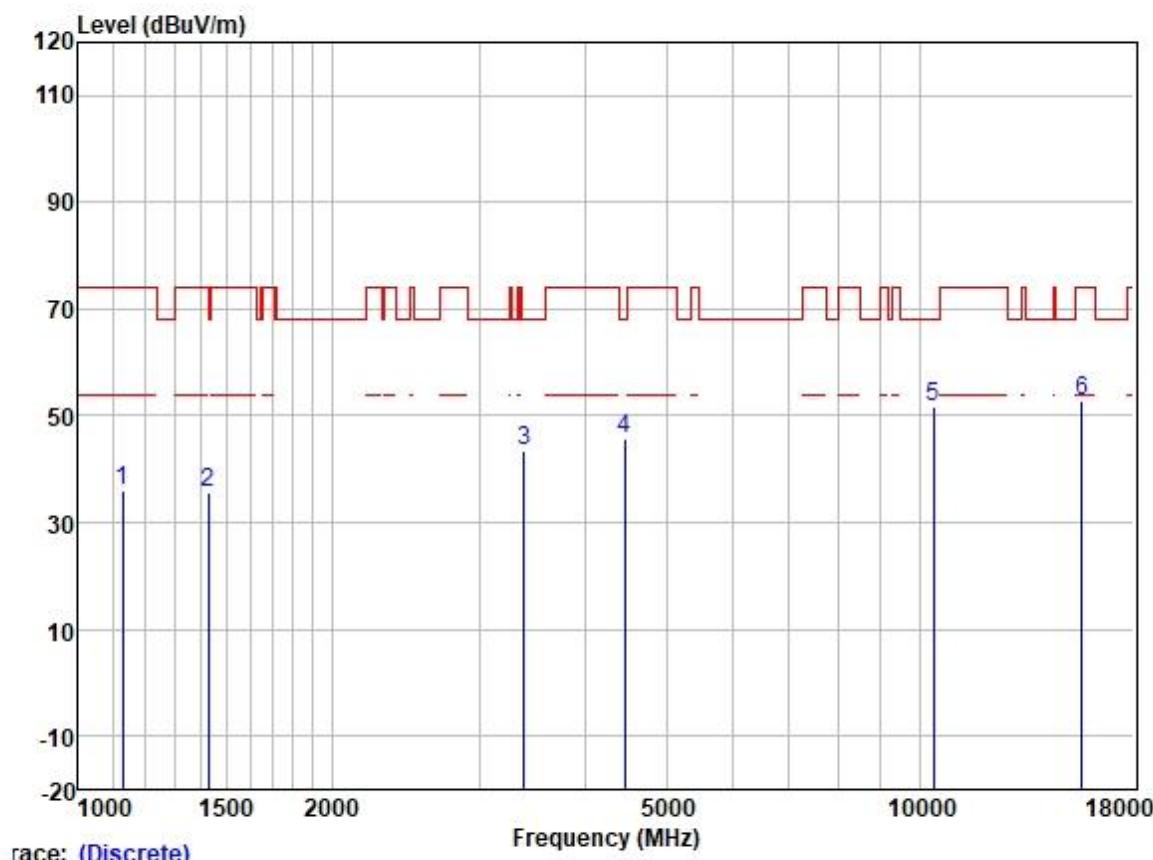
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1129.072	47.71	24.43	2.20	38.43	35.91	74.00	-38.09	HORIZONTAL	Peak	
2	1426.916	45.74	25.43	2.65	38.20	35.62	74.00	-38.38	HORIZONTAL	Peak	
3	3386.297	47.38	28.83	4.10	36.99	43.32	68.20	-24.88	HORIZONTAL	Peak	
4	4456.315	46.98	30.75	4.88	36.81	45.80	68.20	-22.40	HORIZONTAL	Peak	
5	10400.000	42.51	39.33	7.32	37.36	51.80	68.20	-16.40	HORIZONTAL	Peak	
6	15600.000	39.30	38.99	9.88	35.39	52.78	74.00	-21.22	HORIZONTAL	Peak	

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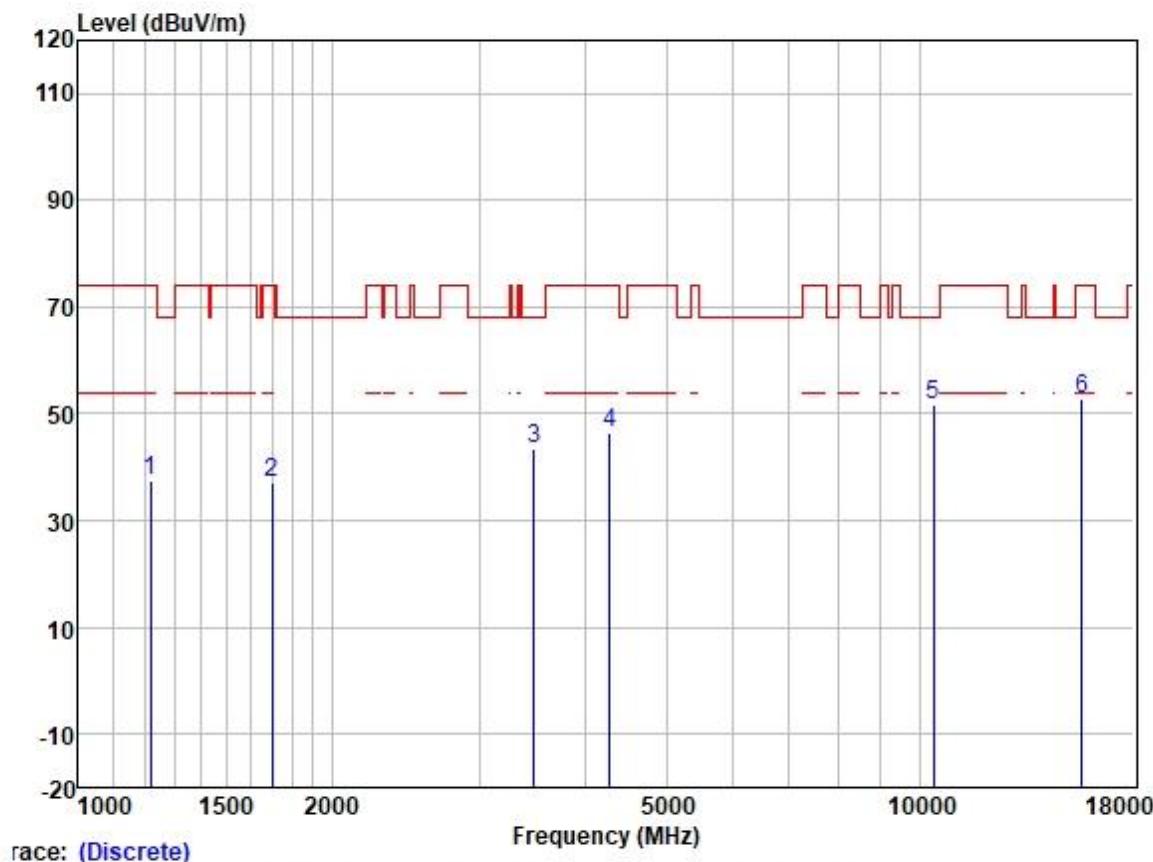
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1217.190	48.77	24.79	2.32	38.37	37.51	74.00	-36.49	VERTICAL	Peak			
2	1697.129	46.34	25.71	2.80	37.89	36.96	74.00	-37.04	VERTICAL	Peak			
3	3485.601	47.27	28.89	4.27	36.95	43.48	68.20	-24.72	VERTICAL	Peak			
4	4279.589	48.08	30.42	4.63	36.81	46.32	74.00	-27.68	VERTICAL	Peak			
5	10400.000	42.26	39.33	7.32	37.36	51.55	68.20	-16.65	VERTICAL	Peak			
6	15600.000	39.36	38.99	9.88	35.39	52.84	74.00	-21.16	VERTICAL	Peak			

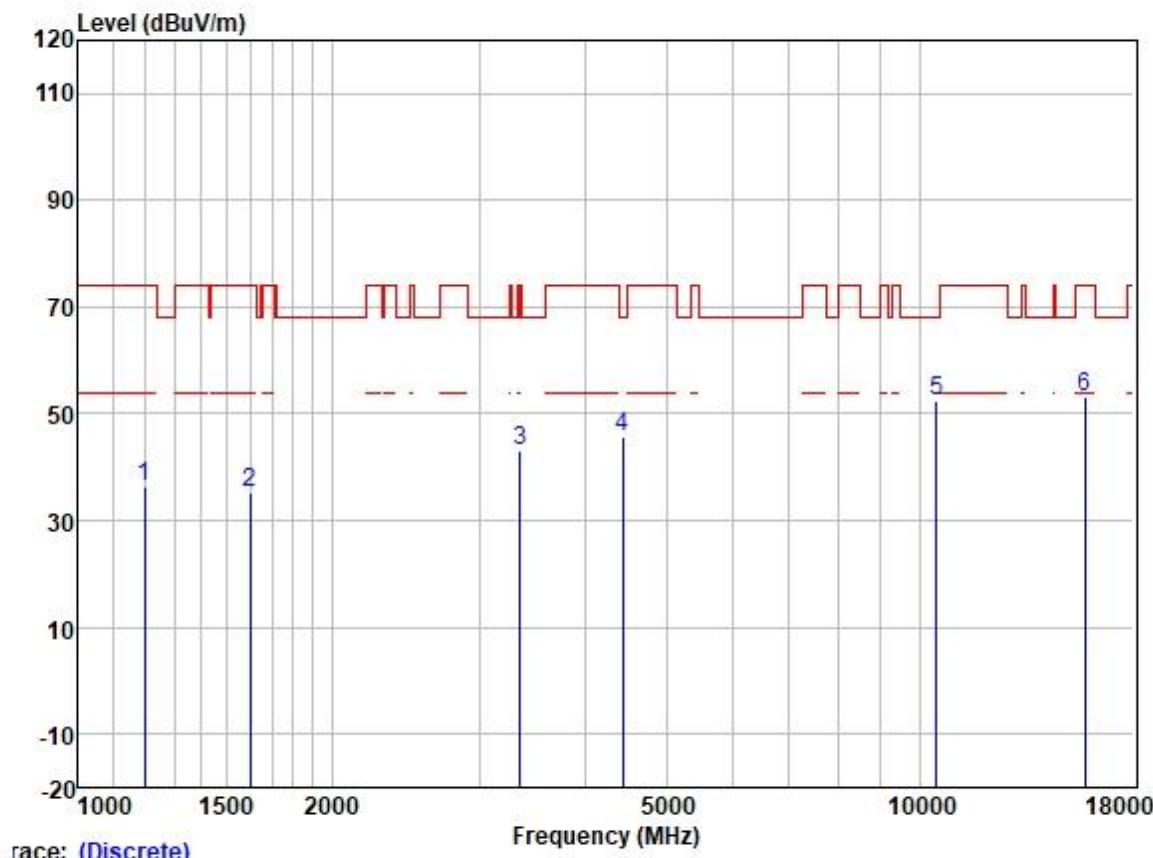
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1199.726	47.88	24.68	2.34	38.39	36.51	74.00	-37.49	HORIZONTAL	Peak			
2	1601.804	44.82	25.58	2.80	37.98	35.22	74.00	-38.78	HORIZONTAL	Peak			
3	3347.371	47.31	28.80	4.08	37.01	43.18	74.00	-30.82	HORIZONTAL	Peak			
4	4443.453	46.95	30.73	4.83	36.81	45.70	68.20	-22.50	HORIZONTAL	Peak			
5	10480.000	43.00	39.46	7.40	37.36	52.50	68.20	-15.70	HORIZONTAL	Peak			
6	15720.000	39.89	38.78	9.87	35.39	53.15	74.00	-20.85	HORIZONTAL	Peak			

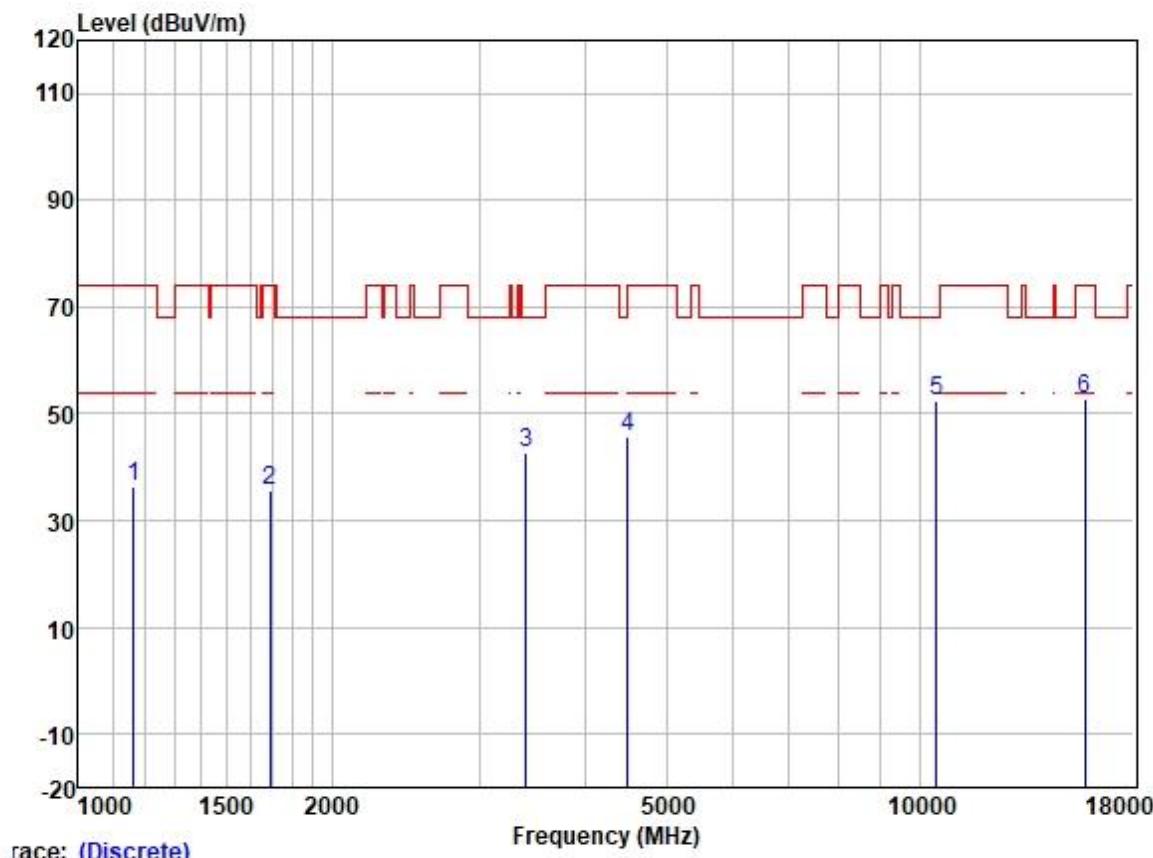
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB			
1	1162.182	47.87	24.53	2.40	38.42	36.38	74.00	-37.62	VERTICAL	Peak	
2	1692.231	45.15	25.70	2.80	37.89	35.76	74.00	-38.24	VERTICAL	Peak	
3	3405.929	46.78	28.85	4.11	36.98	42.76	68.20	-25.44	VERTICAL	Peak	
4	4495.125	46.67	30.80	5.05	36.82	45.70	68.20	-22.50	VERTICAL	Peak	
5	10480.000	43.00	39.46	7.40	37.36	52.50	68.20	-15.70	VERTICAL	Peak	
6	15720.000	39.40	38.78	9.87	35.39	52.66	74.00	-21.34	VERTICAL	Peak	

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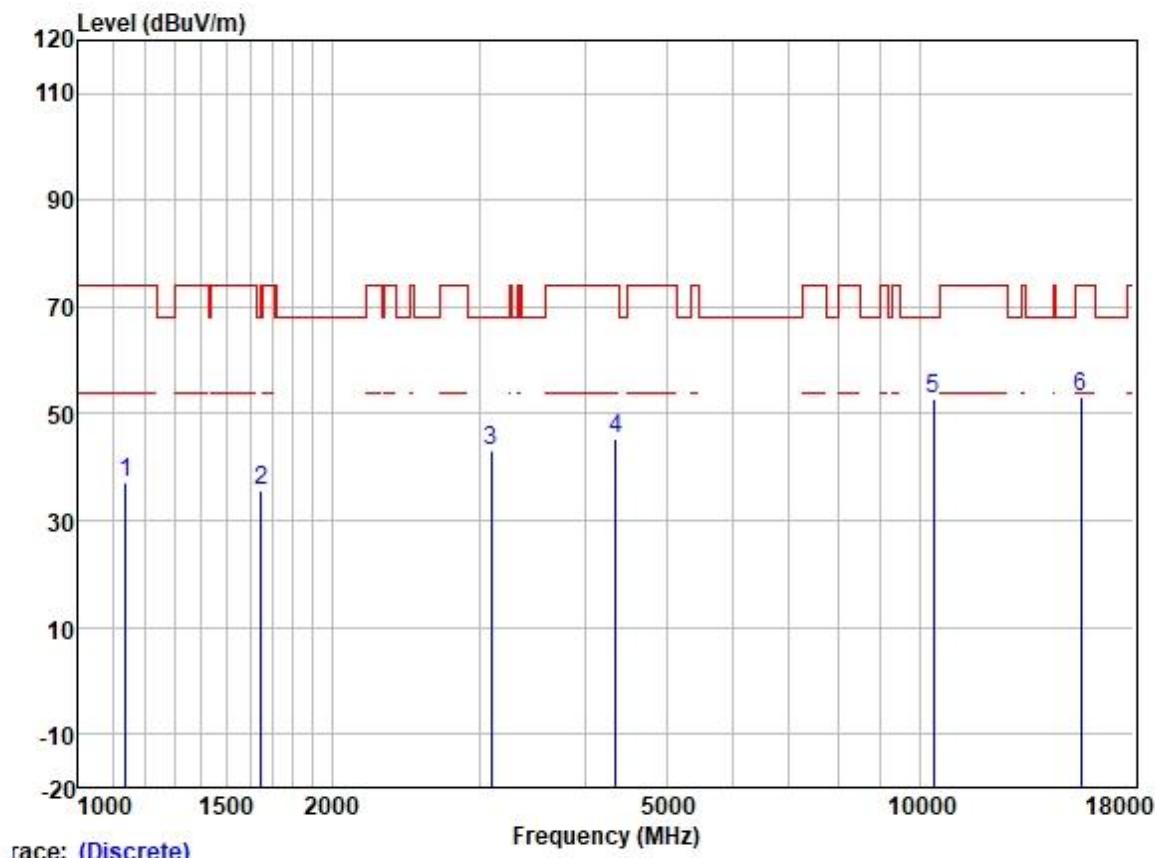
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1138.904	48.66	24.46	2.27	38.42	36.97	74.00	-37.03	HORIZONTAL	Peak			
2	1648.778	45.08	25.63	2.80	37.93	35.58	68.20	-32.62	HORIZONTAL	Peak			
3	3096.075	48.02	28.47	3.90	37.16	43.23	68.20	-24.97	HORIZONTAL	Peak			
4	4354.454	47.05	30.59	4.68	36.81	45.51	74.00	-28.49	HORIZONTAL	Peak			
5	10380.000	43.53	39.33	7.32	37.37	52.81	68.20	-15.39	HORIZONTAL	Peak			
6	15570.000	39.53	38.99	9.88	35.39	53.01	74.00	-20.99	HORIZONTAL	Peak			

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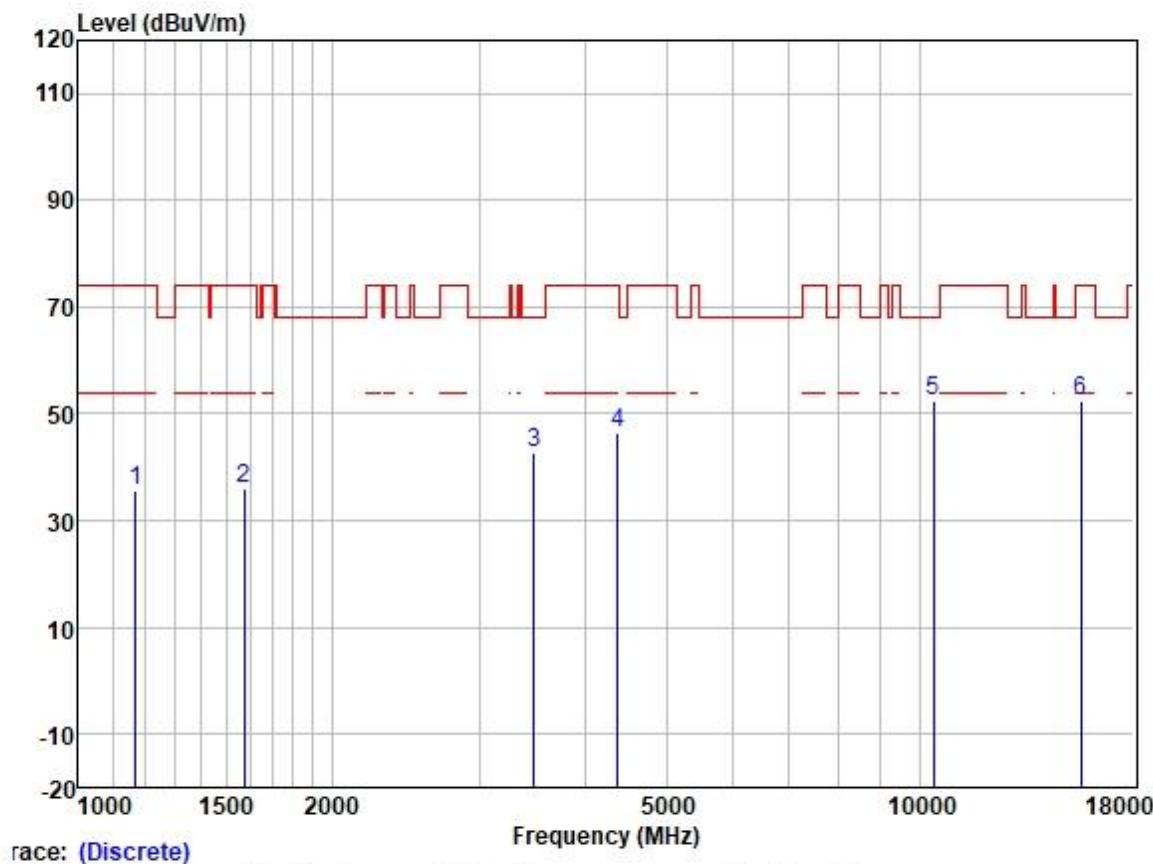
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss							
1	1168.920	47.23	24.55	2.39	38.40	35.77	74.00	-38.23	VERTICAL	Peak	
2	1574.265	45.54	25.56	2.80	38.00	35.90	74.00	-38.10	VERTICAL	Peak	
3	3485.601	46.54	28.89	4.27	36.95	42.75	68.20	-25.45	VERTICAL	Peak	
4	4379.699	47.80	30.64	4.69	36.81	46.32	74.00	-27.68	VERTICAL	Peak	
5	10380.000	43.33	39.33	7.32	37.37	52.61	68.20	-15.59	VERTICAL	Peak	
6	15570.000	39.00	38.99	9.88	35.39	52.48	74.00	-21.52	VERTICAL	Peak	

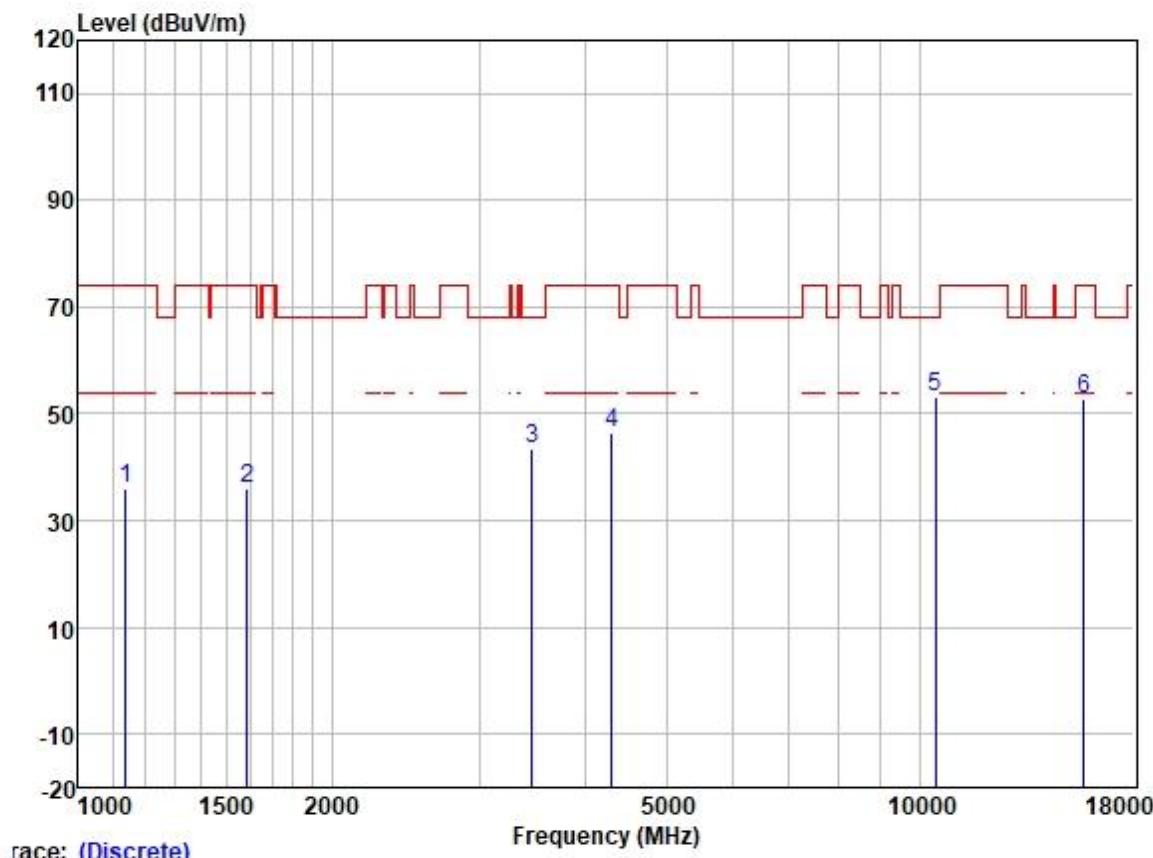
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1138.904	47.68	24.46	2.27	38.42	35.99	74.00	-38.01	HORIZONTAL	Peak				
2 1587.975	45.57	25.57	2.80	37.98	35.96	74.00	-38.04	HORIZONTAL	Peak				
3 3465.510	47.23	28.88	4.22	36.95	43.38	68.20	-24.82	HORIZONTAL	Peak				
4 4304.400	48.25	30.48	4.65	36.81	46.57	74.00	-27.43	HORIZONTAL	Peak				
5 10460.000	43.66	39.42	7.37	37.36	53.09	68.20	-15.11	HORIZONTAL	Peak				
6 15690.000	39.47	38.86	9.87	35.39	52.81	74.00	-21.19	HORIZONTAL	Peak				

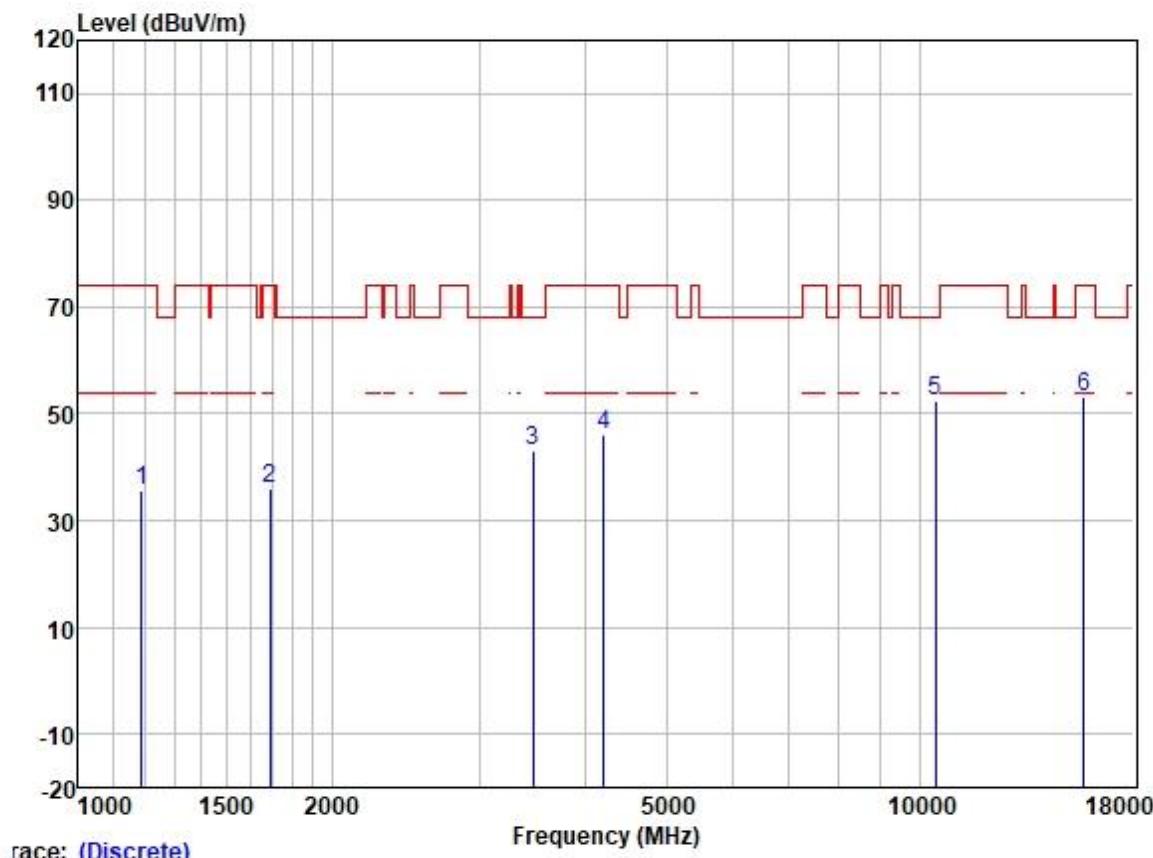
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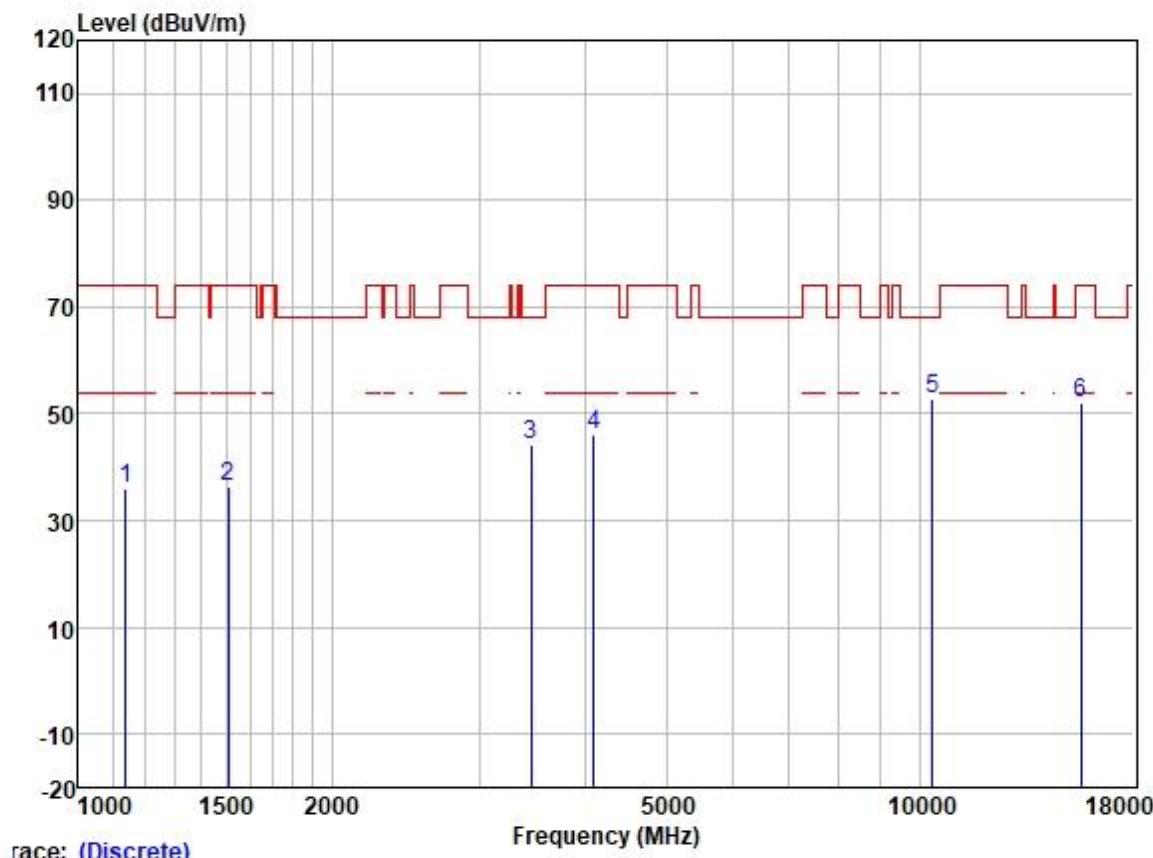
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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



Race: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1138.904	47.70	24.46	2.27	38.42	36.01	74.00	-37.99	HORIZONTAL	Peak	
2	1507.470	46.29	25.51	2.80	38.10	36.50	74.00	-37.50	HORIZONTAL	Peak	
3	3455.508	48.17	28.88	4.20	36.96	44.29	68.20	-23.91	HORIZONTAL	Peak	
4	4098.010	48.22	29.94	4.60	36.80	45.96	74.00	-28.04	HORIZONTAL	Peak	
5	10360.000	43.57	39.28	7.29	37.37	52.77	68.20	-15.43	HORIZONTAL	Peak	
6	15540.000	38.35	39.05	9.88	35.39	51.89	74.00	-22.11	HORIZONTAL	Peak	

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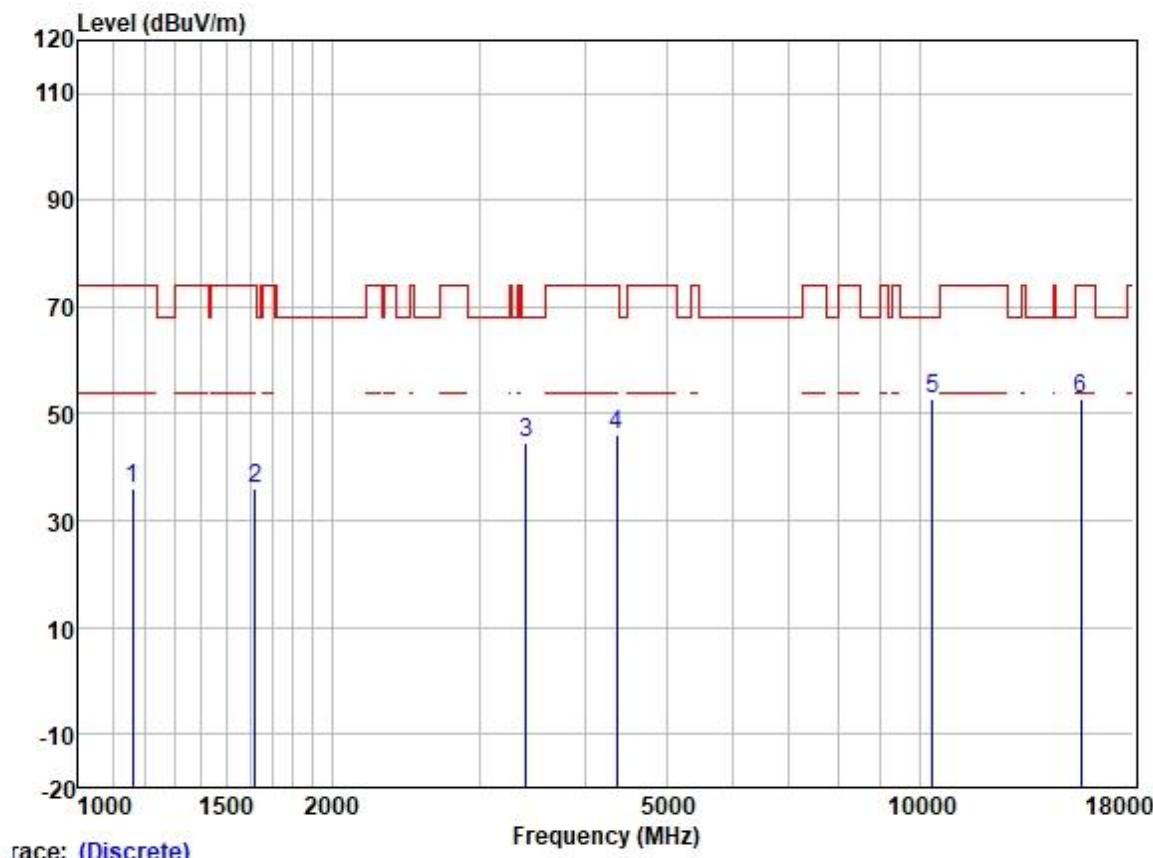
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1158.828	47.41	24.52	2.40	38.42	35.91	74.00	-38.09	VERTICAL	Peak		
2	1620.431	45.63	25.60	2.80	37.95	36.08	74.00	-37.92	VERTICAL	Peak		
3	3405.929	48.70	28.85	4.11	36.98	44.68	68.20	-23.52	VERTICAL	Peak		
4	4367.058	47.47	30.62	4.68	36.81	45.96	74.00	-28.04	VERTICAL	Peak		
5	10360.000	43.70	39.28	7.29	37.37	52.90	68.20	-15.30	VERTICAL	Peak		
6	15540.000	39.43	39.05	9.88	35.39	52.97	74.00	-21.03	VERTICAL	Peak		

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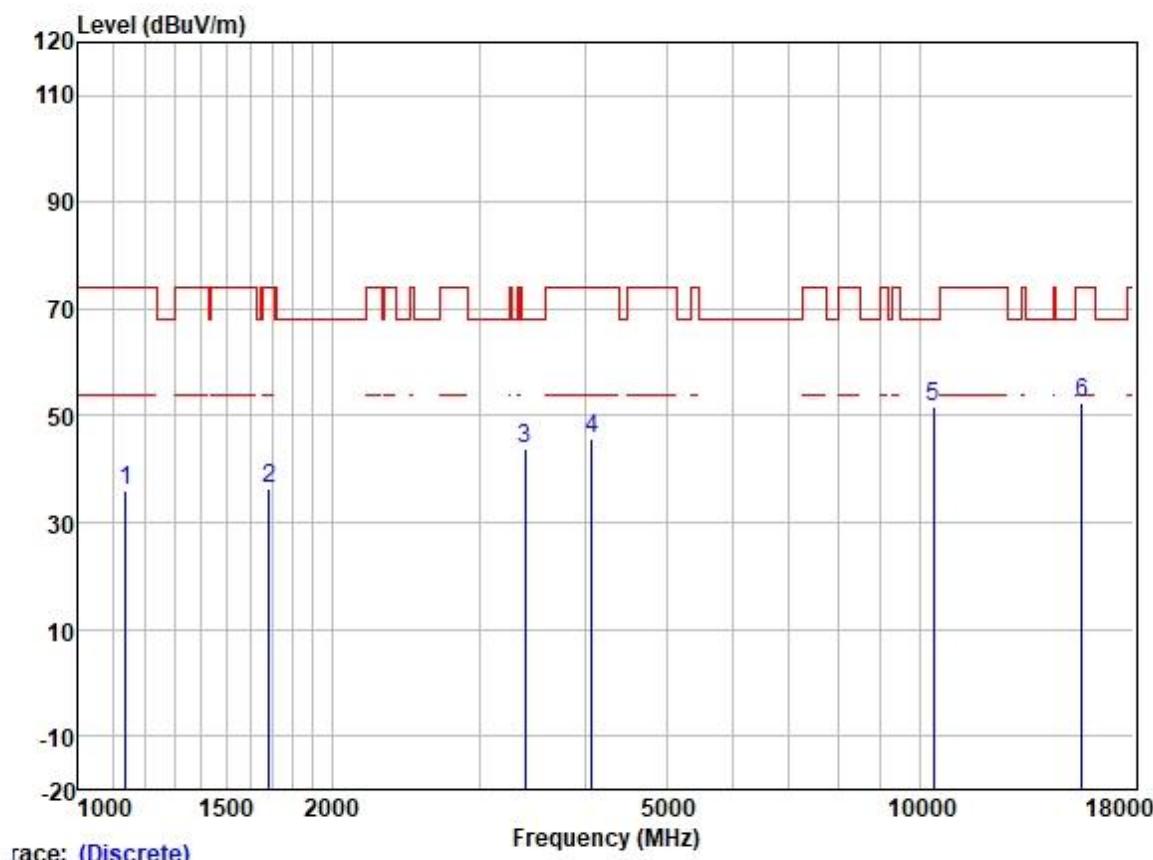
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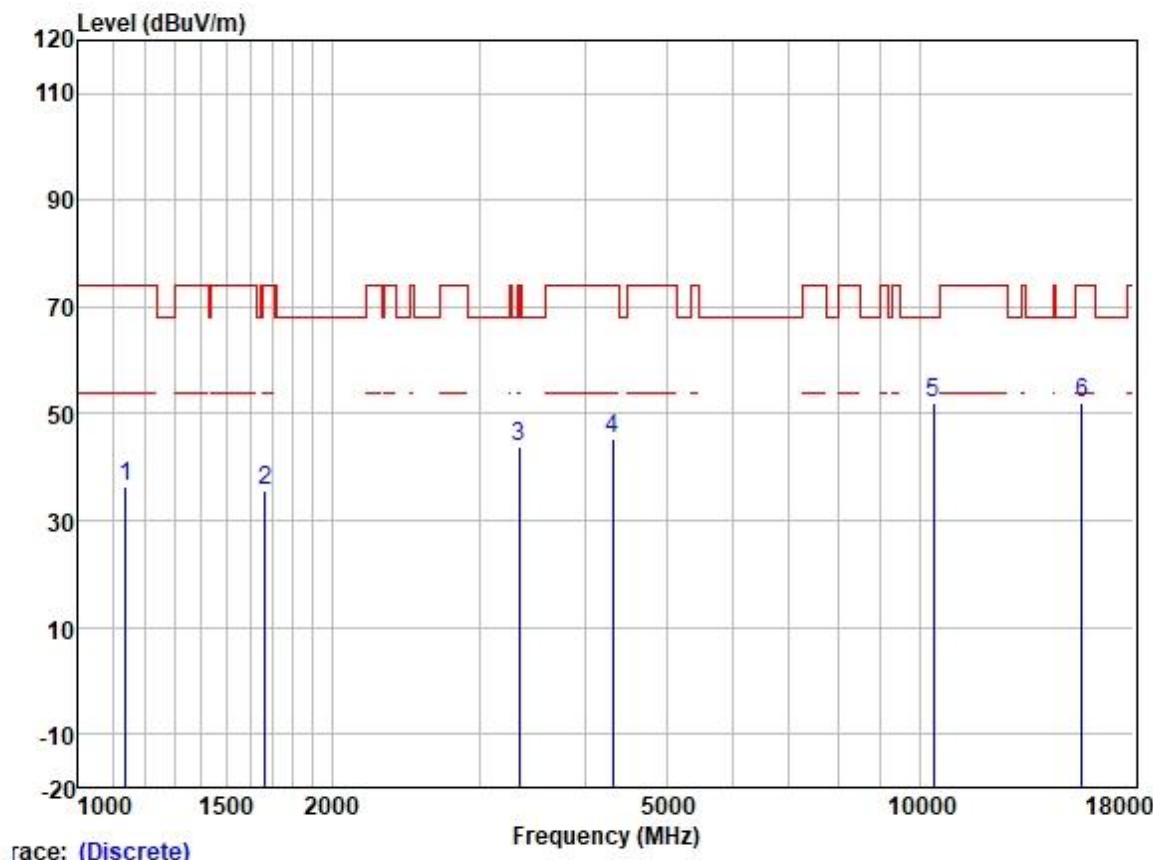
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



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



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1	1138.904	47.94	24.46	2.27	38.42	36.25	74.00	-37.75	VERTICAL	Peak
2	1667.951	45.02	25.66	2.80	37.91	35.57	74.00	-38.43	VERTICAL	Peak
3	3337.710	47.88	28.79	4.08	37.01	43.74	74.00	-30.26	VERTICAL	Peak
4	4316.859	46.90	30.51	4.66	36.81	45.26	74.00	-28.74	VERTICAL	Peak
5	10400.000	42.92	39.33	7.32	37.36	52.21	68.20	-15.99	VERTICAL	Peak
6	15600.000	38.61	38.99	9.88	35.39	52.09	74.00	-21.91	VERTICAL	Peak

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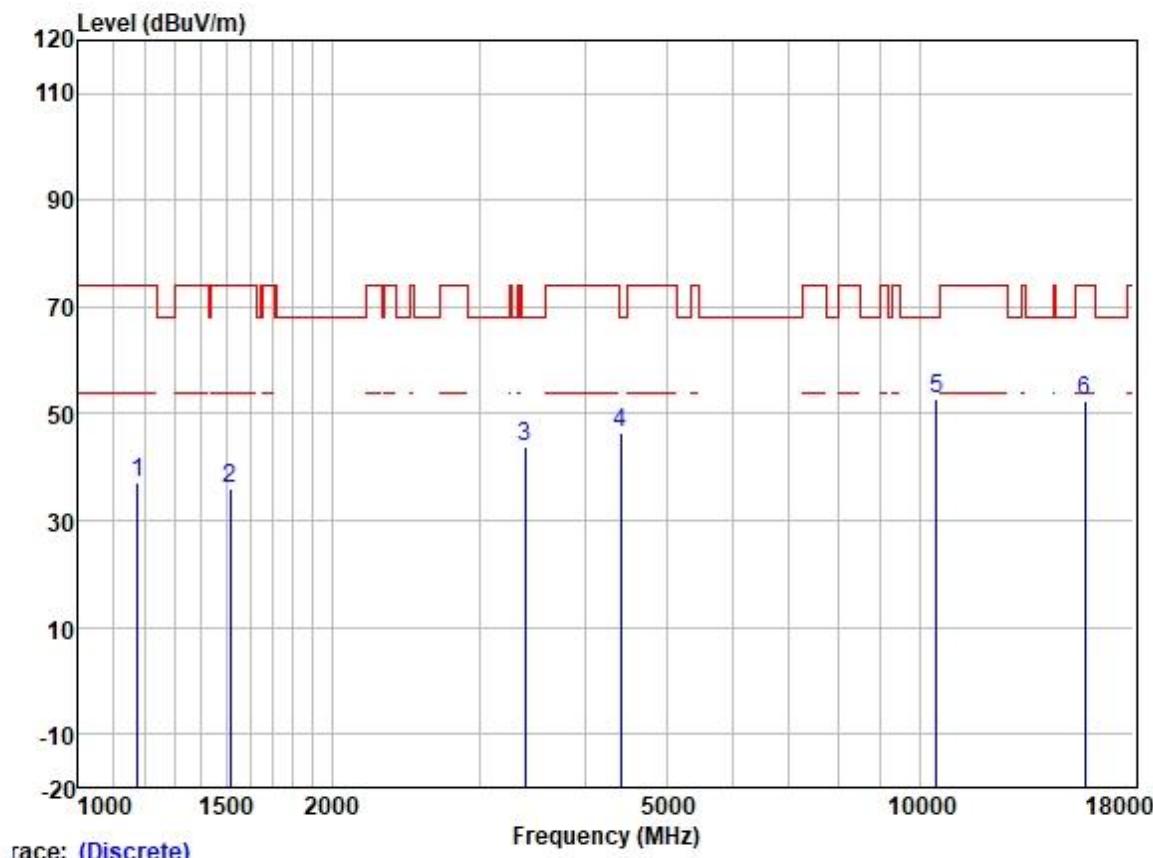
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1175.697	48.59	24.58	2.38	38.40	37.15	74.00	-36.85	HORIZONTAL	Peak	
2	1516.210	45.70	25.51	2.80	38.07	35.94	74.00	-38.06	HORIZONTAL	Peak	
3	3396.098	47.75	28.84	4.10	36.98	43.71	68.20	-24.49	HORIZONTAL	Peak	
4	4417.841	47.68	30.70	4.74	36.81	46.31	68.20	-21.89	HORIZONTAL	Peak	
5	10480.000	43.33	39.46	7.40	37.36	52.83	68.20	-15.37	HORIZONTAL	Peak	
6	15720.000	39.34	38.78	9.87	35.39	52.60	74.00	-21.40	HORIZONTAL	Peak	

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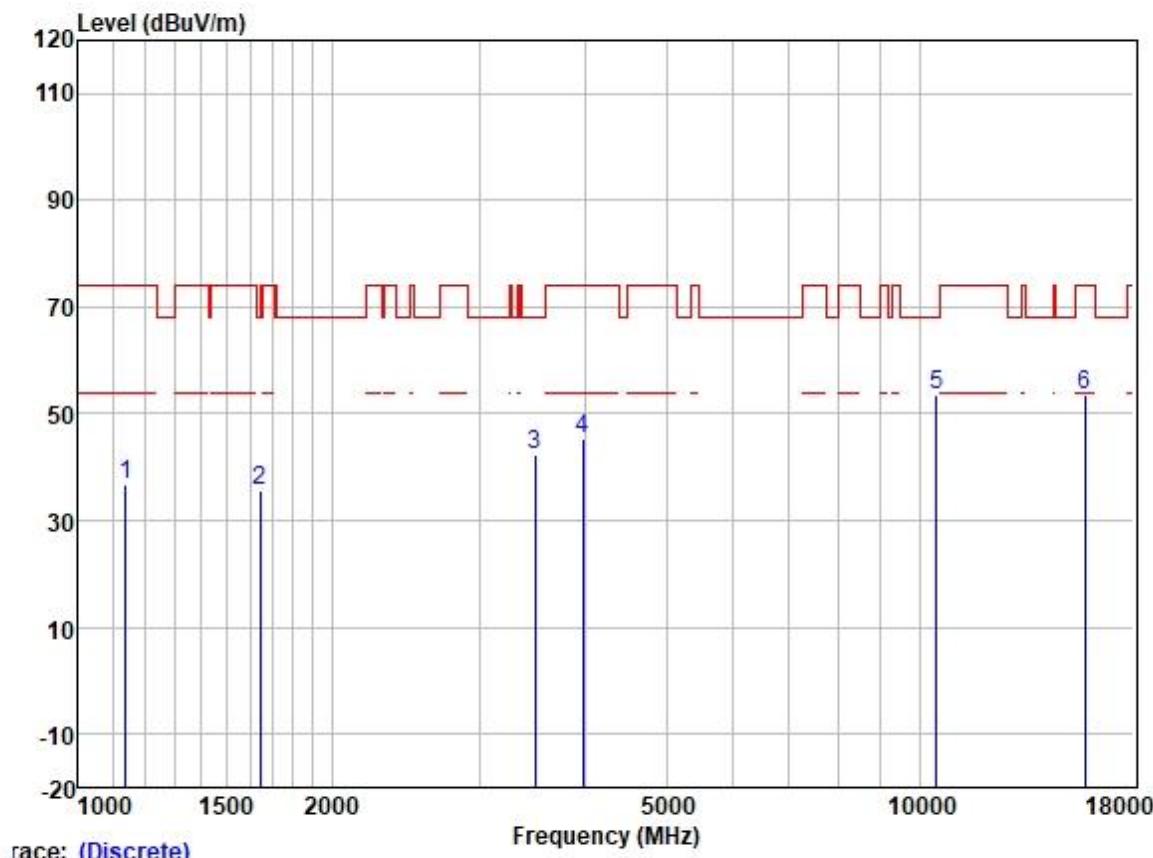
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1138.904	48.37	24.46	2.27	38.42	36.68	74.00	-37.32	VERTICAL	Peak	
2	1644.019	45.12	25.63	2.80	37.93	35.62	68.20	-32.58	VERTICAL	Peak	
3	3495.691	46.24	28.90	4.30	36.94	42.50	68.20	-25.70	VERTICAL	Peak	
4	3981.257	47.86	29.78	4.60	36.81	45.43	74.00	-28.57	VERTICAL	Peak	
5	10480.000	43.86	39.46	7.40	37.36	53.36	68.20	-14.84	VERTICAL	Peak	
6	15720.000	40.22	38.78	9.87	35.39	53.48	74.00	-20.52	VERTICAL	Peak	

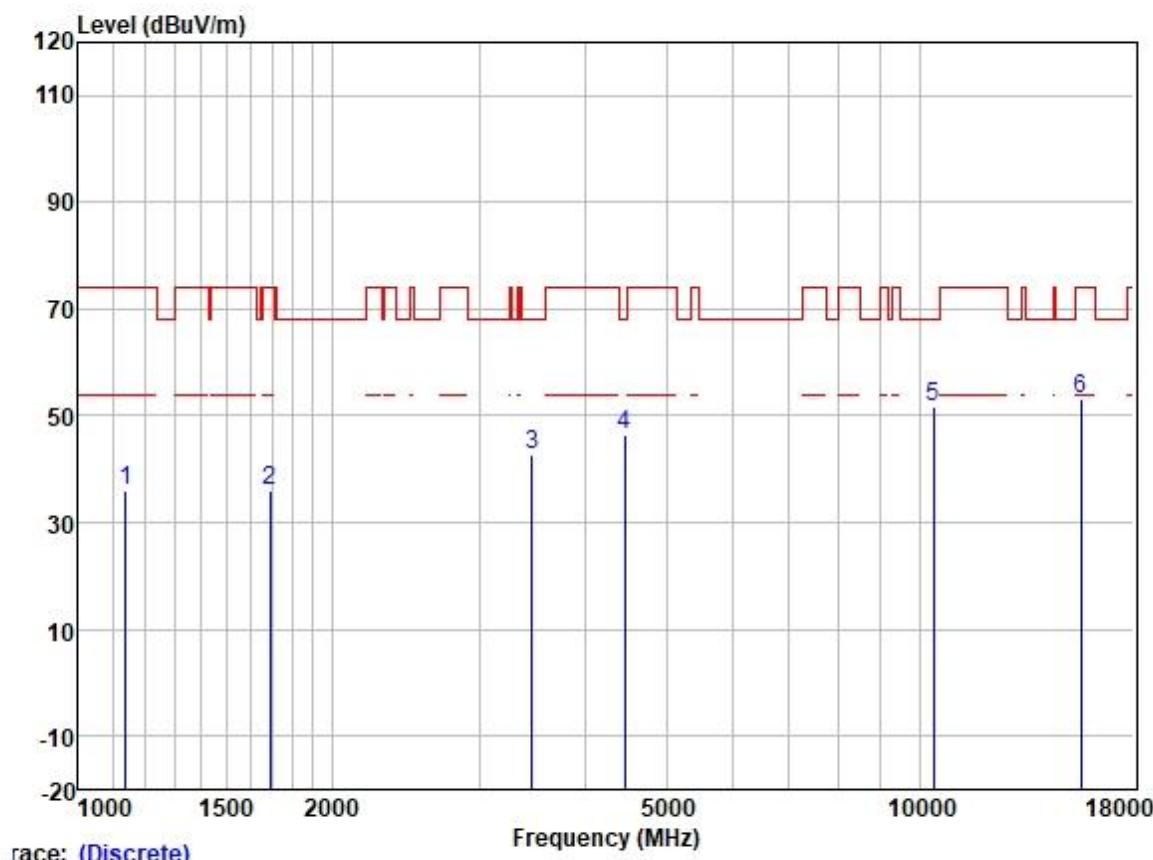
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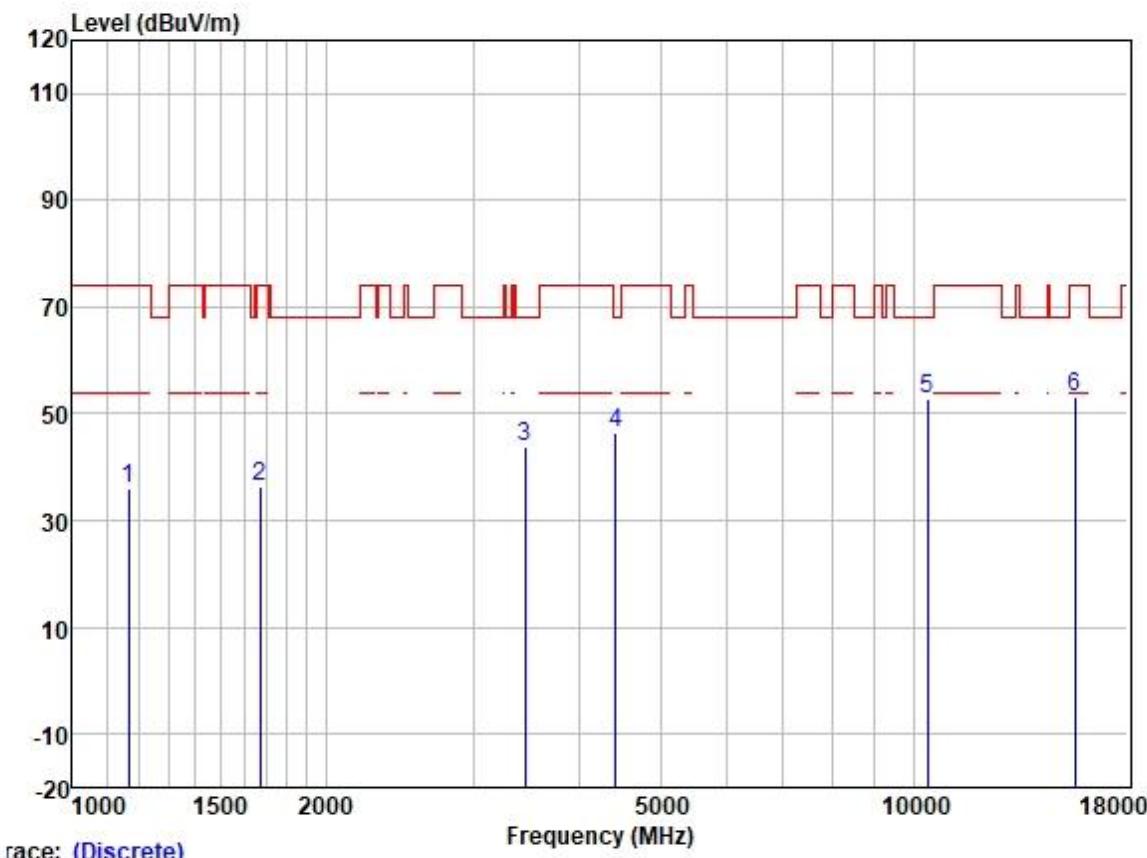
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



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



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1165.546	47.64	24.54	2.39	38.40	36.17	74.00	-37.83	VERTICAL		Peak	
2	1672.779	45.97	25.67	2.80	37.91	36.53	74.00	-37.47	VERTICAL		Peak	
3	3455.508	47.83	28.88	4.20	36.96	43.95	68.20	-24.25	VERTICAL		Peak	
4	4430.628	47.89	30.72	4.78	36.81	46.58	68.20	-21.62	VERTICAL		Peak	
5	10380.000	43.38	39.33	7.32	37.37	52.66	68.20	-15.54	VERTICAL		Peak	
6	15570.000	39.73	38.99	9.88	35.39	53.21	74.00	-20.79	VERTICAL		Peak	

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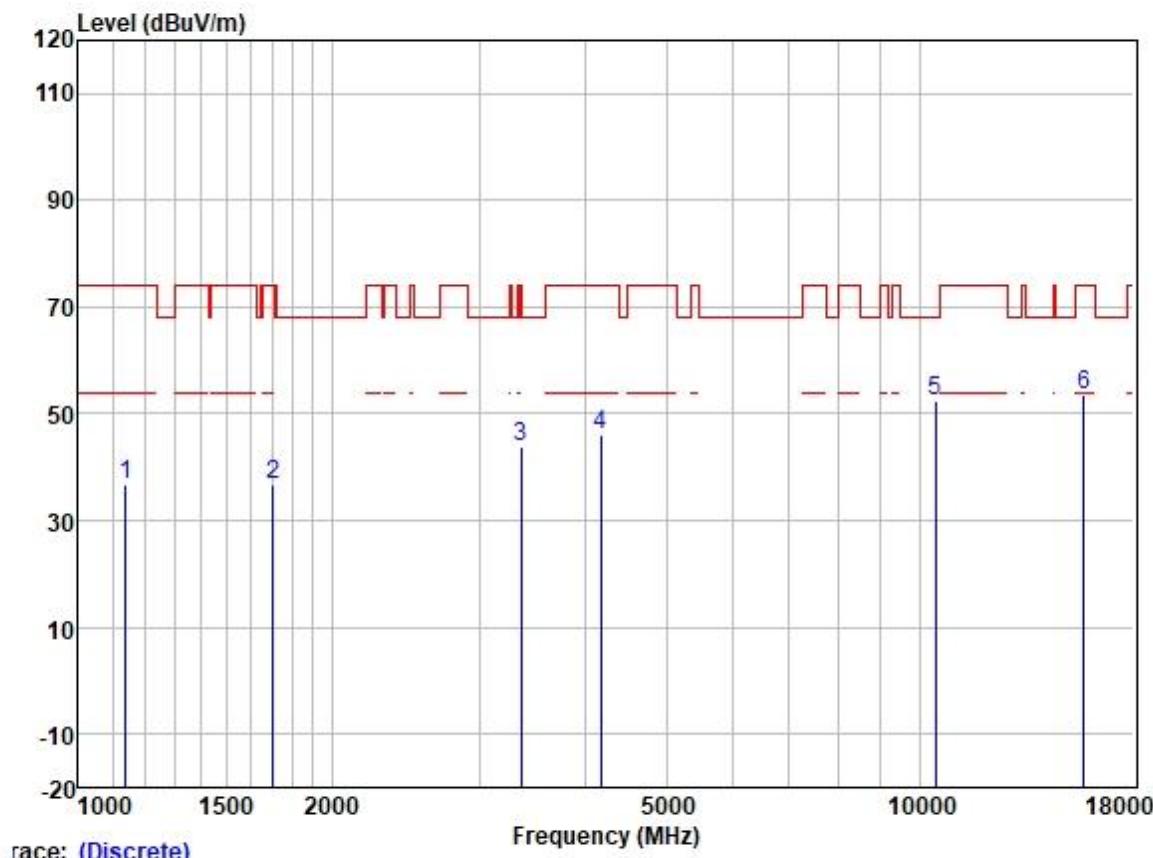
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace:	ReadAntenna	Cable	Preamp	Limit		Over	Limit	Pol/Phase	Remark	
				Freq	Level	Factor	Loss	Factor		
	MHz	dBuV	dB/m			dB	dB	dBuV/m	dBuV/m	dB
1	1138.904	48.26	24.46	2.27	38.42	36.57	74.00	-37.43	HORIZONTAL	Peak
2	1702.042	46.25	25.72	2.80	37.89	36.88	74.00	-37.12	HORIZONTAL	Peak
3	3357.061	47.86	28.81	4.09	37.01	43.75	74.00	-30.25	HORIZONTAL	Peak
4	4181.768	47.98	30.12	4.60	36.80	45.90	74.00	-28.10	HORIZONTAL	Peak
5	10460.000	42.83	39.42	7.37	37.36	52.26	68.20	-15.94	HORIZONTAL	Peak
6	15690.000	40.07	38.86	9.87	35.39	53.41	74.00	-20.59	HORIZONTAL	Peak

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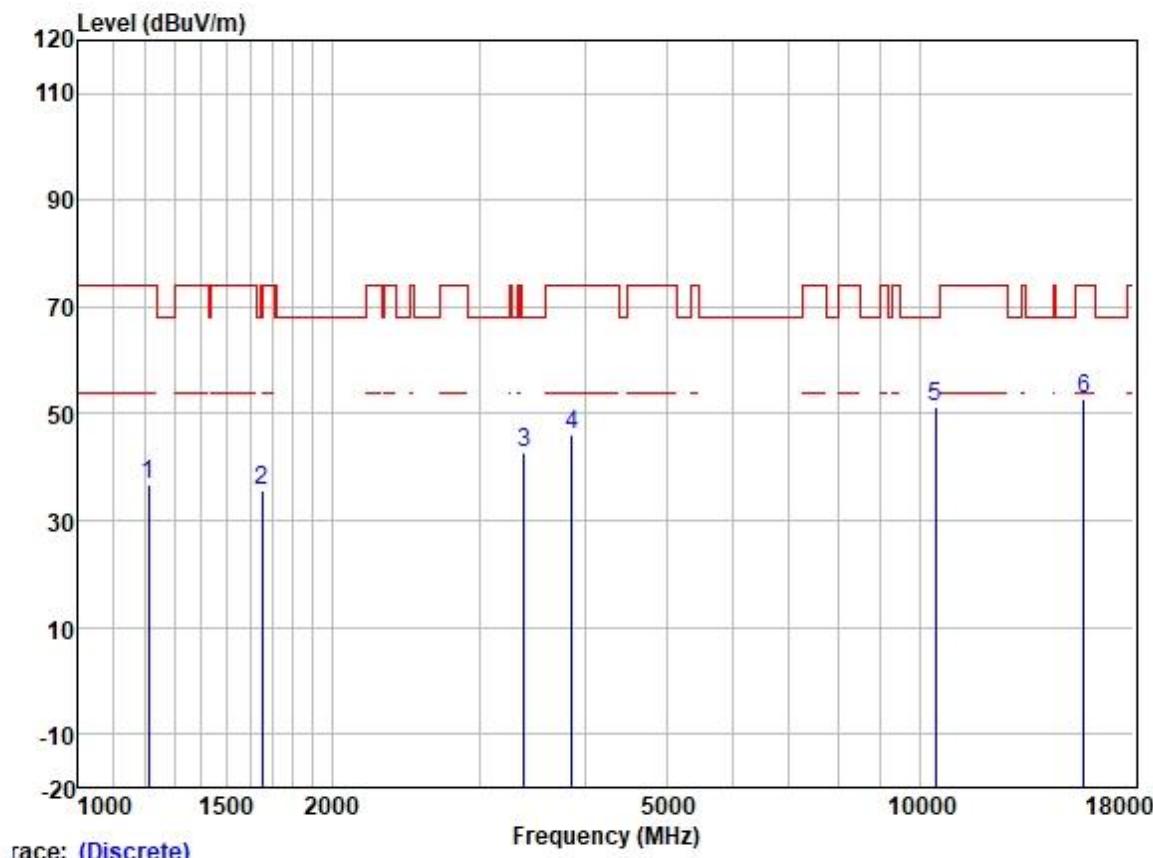


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1210.174	48.14	24.74	2.33	38.39	36.82	74.00	-37.18	VERTICAL	Peak	
2	1653.550	45.20	25.64	2.80	37.93	35.71	68.20	-32.49	VERTICAL	Peak	
3	3386.297	46.67	28.83	4.10	36.99	42.61	68.20	-25.59	VERTICAL	Peak	
4	3856.668	48.59	29.62	4.60	36.84	45.97	74.00	-28.03	VERTICAL	Peak	
5	10460.000	41.92	39.42	7.37	37.36	51.35	68.20	-16.85	VERTICAL	Peak	
6	15690.000	39.43	38.86	9.87	35.39	52.77	74.00	-21.23	VERTICAL	Peak	

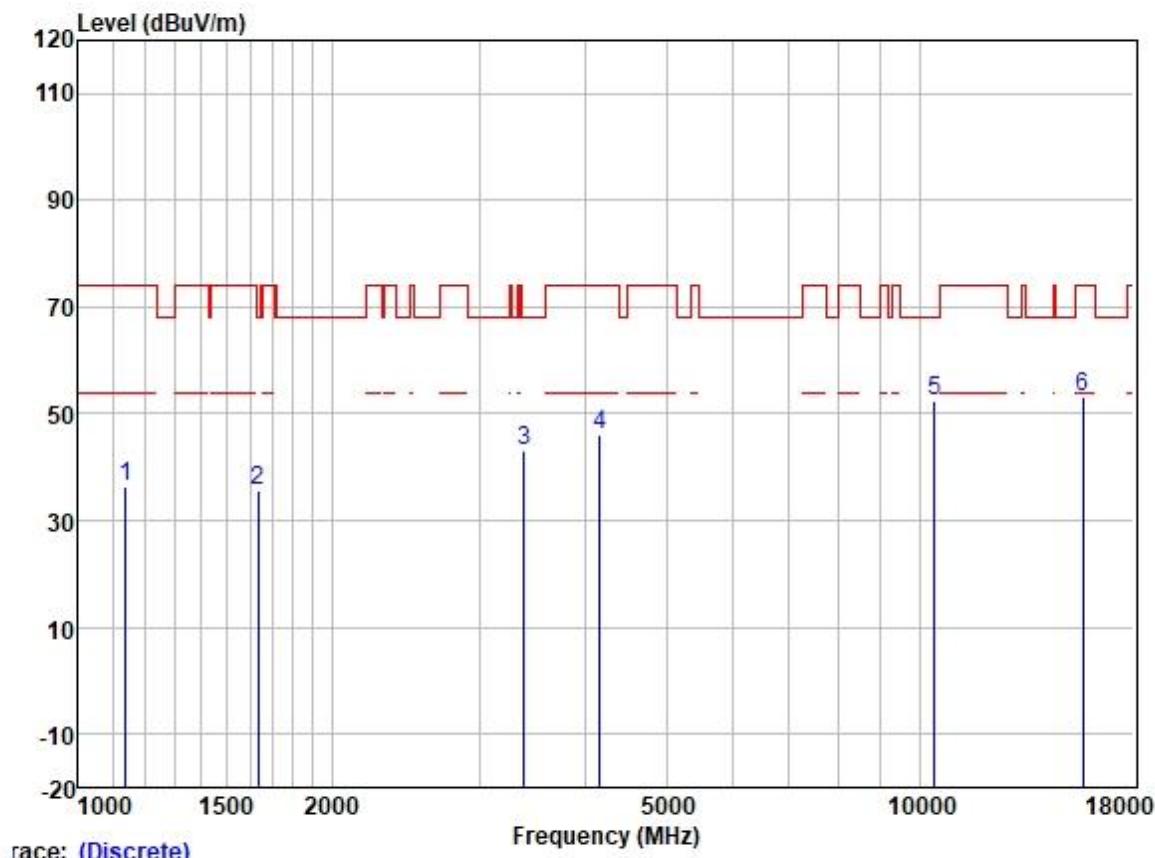
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



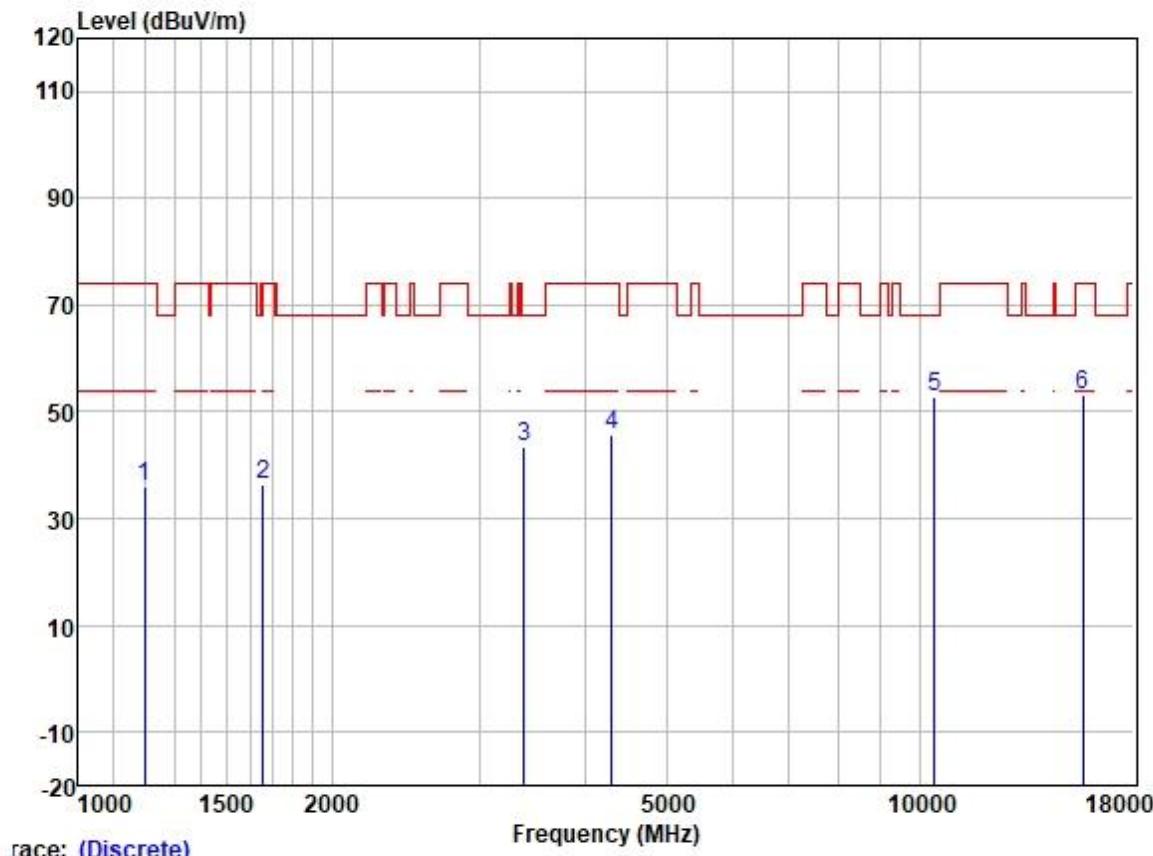
Freq	ReadAntenna		Cable		Preamp		Level	Limit	Over		Remark
	Level	Factor	Loss	Factor	Level	Line			Limit	Pol/Phase	
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m		dB	
1	1138.904	47.95	24.46	2.27	38.42	36.26	74.00	-37.74	HORIZONTAL	Peak	
2	1634.543	45.20	25.62	2.80	37.95	35.67	68.20	-32.53	HORIZONTAL	Peak	
3	3386.297	47.22	28.83	4.10	36.99	43.16	68.20	-25.04	HORIZONTAL	Peak	
4	4169.698	48.33	30.09	4.60	36.80	46.22	74.00	-27.78	HORIZONTAL	Peak	
5	10420.000	43.16	39.38	7.35	37.36	52.53	68.20	-15.67	HORIZONTAL	Peak	
6	15630.000	39.69	38.92	9.87	35.39	53.09	74.00	-20.91	HORIZONTAL	Peak	

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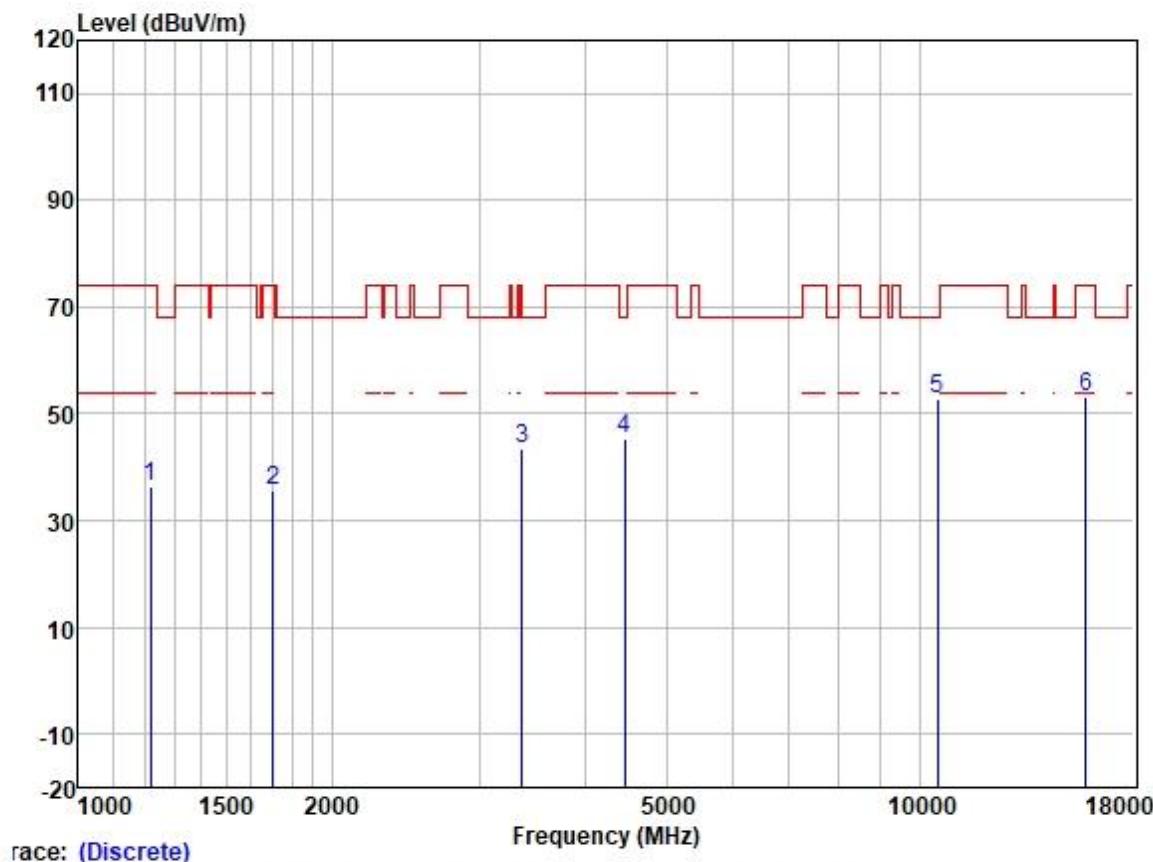
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



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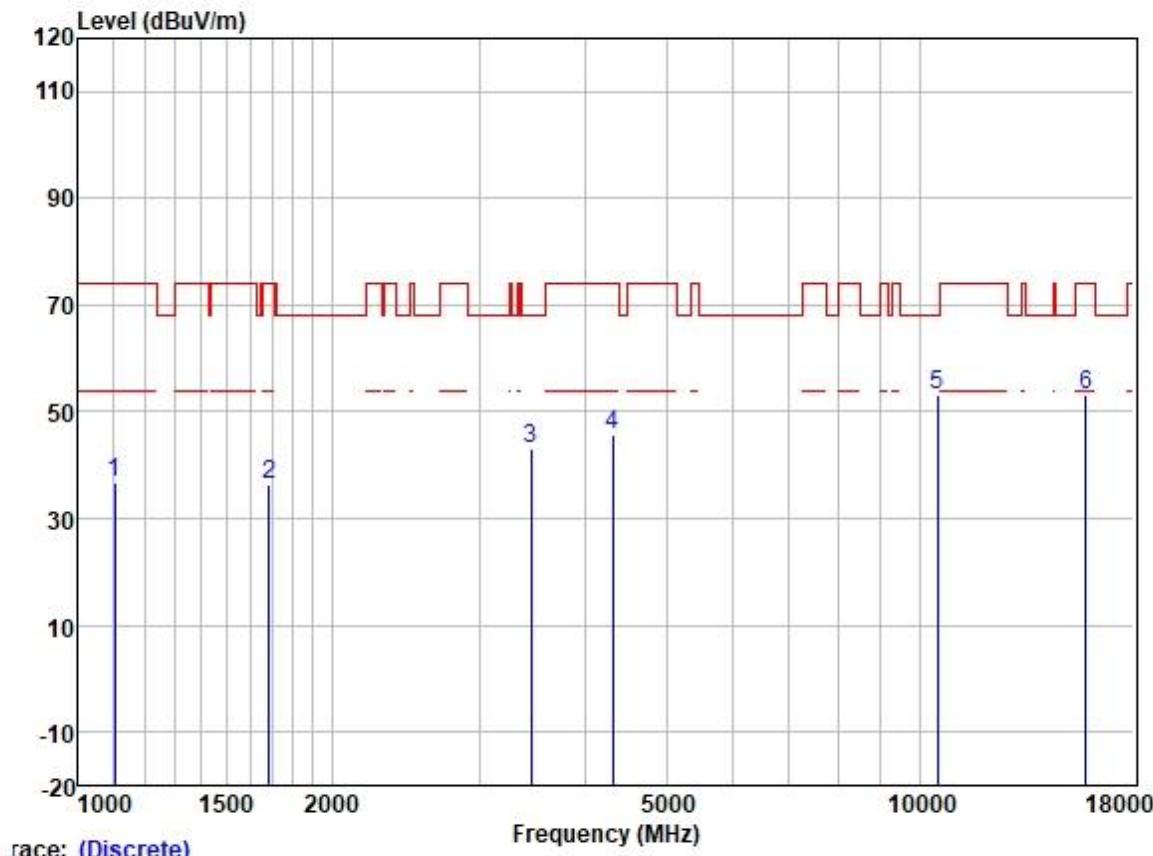
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1103.264	48.49	24.37	2.29	38.45	36.70	74.00	-37.30	VERTICAL	Peak	
2	1687.347	45.91	25.69	2.80	37.91	36.49	74.00	-37.51	VERTICAL	Peak	
3	3455.508	46.87	28.88	4.20	36.96	42.99	68.20	-25.21	VERTICAL	Peak	
4	4316.859	47.20	30.51	4.66	36.81	45.56	74.00	-28.44	VERTICAL	Peak	
5	10520.000	43.75	39.50	7.42	37.35	53.32	68.20	-14.88	VERTICAL	Peak	
6	15780.000	40.06	38.70	9.86	35.39	53.23	74.00	-20.77	VERTICAL	Peak	

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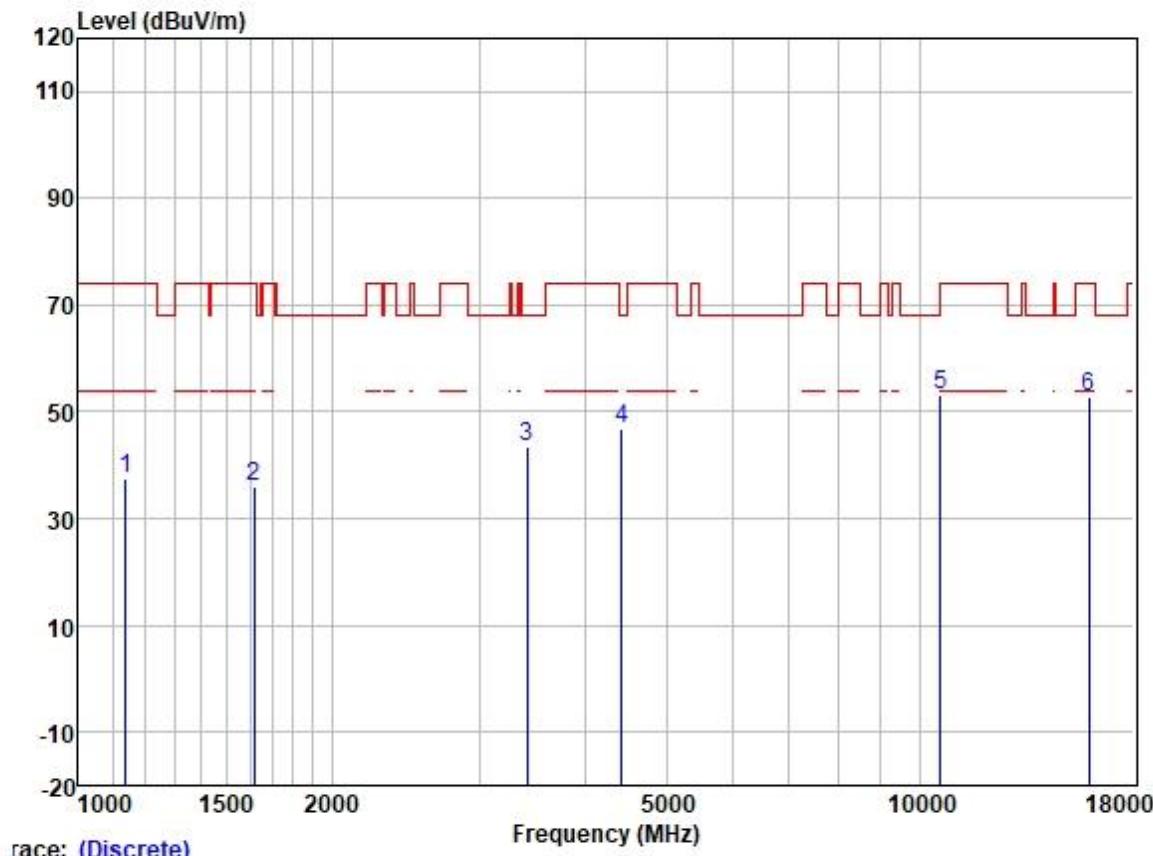
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1138.904	49.06	24.46	2.27	38.42	37.37	74.00	-36.63	HORIZONTAL	Peak			
2	1615.754	45.69	25.60	2.80	37.95	36.14	74.00	-37.86	HORIZONTAL	Peak			
3	3415.787	47.40	28.85	4.13	36.97	43.41	68.20	-24.79	HORIZONTAL	Peak			
4	4430.628	48.04	30.72	4.78	36.81	46.73	68.20	-21.47	HORIZONTAL	Peak			
5	10600.000	43.40	39.59	7.46	37.34	53.11	68.20	-15.09	HORIZONTAL	Peak			
6	15900.000	39.86	38.44	9.86	35.40	52.76	74.00	-21.24	HORIZONTAL	Peak			

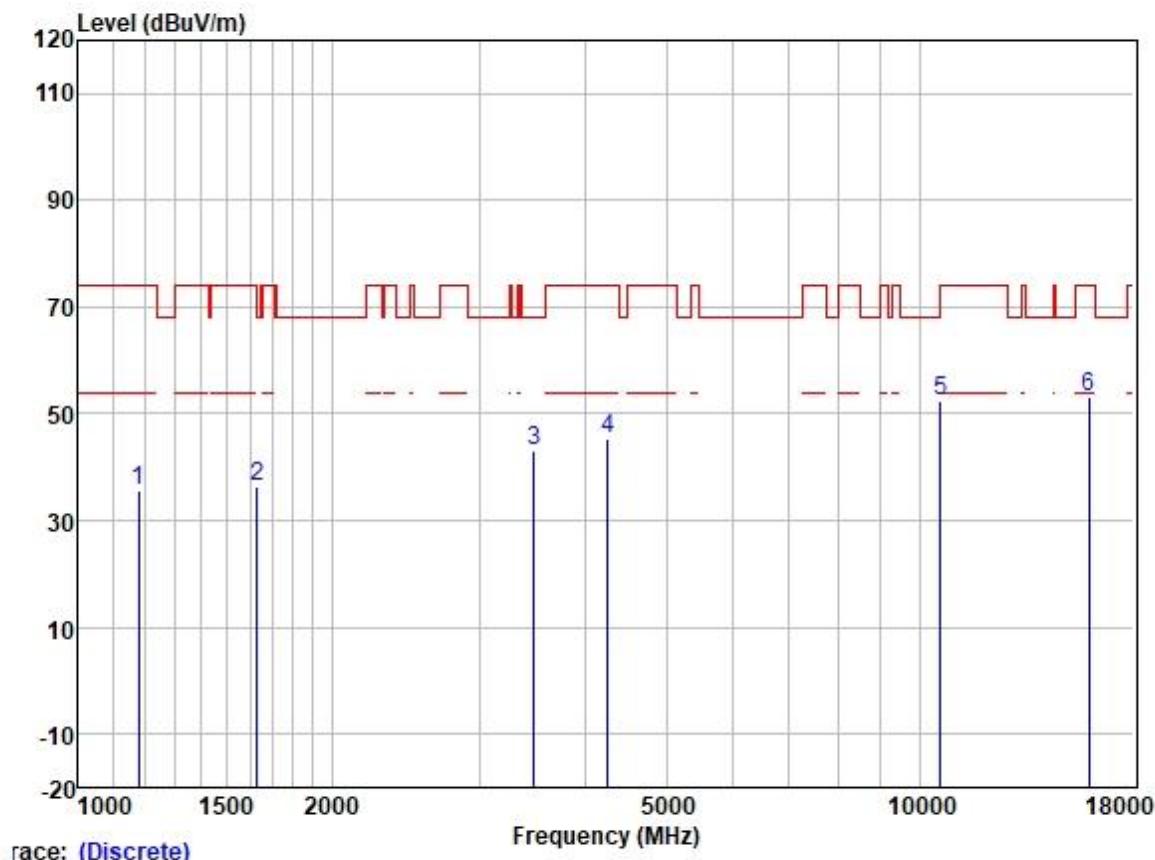
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB			
1	1179.100	46.96	24.59	2.38	38.40	35.53	74.00	-38.47	VERTICAL	Peak	
2	1629.825	45.89	25.61	2.80	37.95	36.35	68.20	-31.85	VERTICAL	Peak	
3	3485.601	47.00	28.89	4.27	36.95	43.21	68.20	-24.99	VERTICAL	Peak	
4	4254.921	47.07	30.34	4.62	36.81	45.22	74.00	-28.78	VERTICAL	Peak	
5	10600.000	42.75	39.59	7.46	37.34	52.46	68.20	-15.74	VERTICAL	Peak	
6	15900.000	40.31	38.44	9.86	35.40	53.21	74.00	-20.79	VERTICAL	Peak	

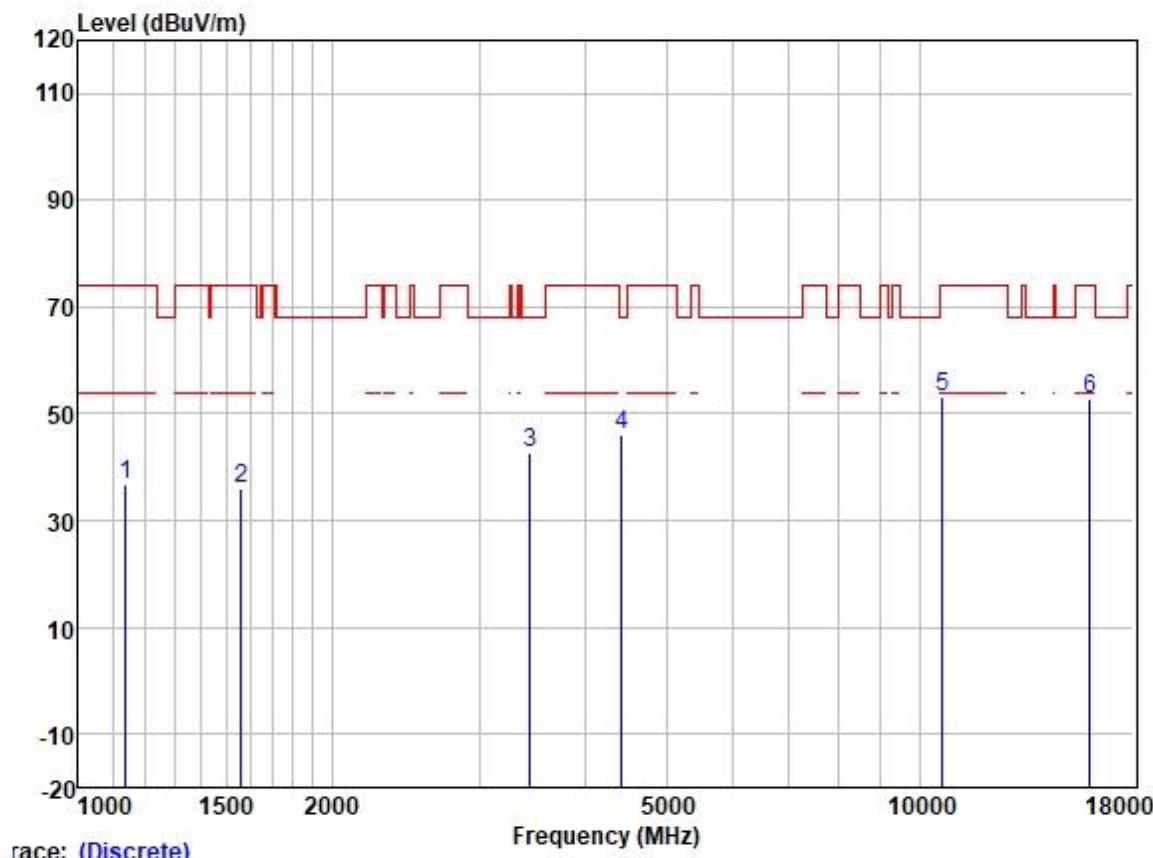
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1138.904	48.30	24.46	2.27	38.42	36.61	74.00	-37.39	HORIZONTAL	Peak				
2 1560.673	45.83	25.54	2.80	38.03	36.14	74.00	-37.86	HORIZONTAL	Peak				
3 3445.535	46.81	28.87	4.18	36.96	42.90	68.20	-25.30	HORIZONTAL	Peak				
4 4430.628	47.29	30.72	4.78	36.81	45.98	68.20	-22.22	HORIZONTAL	Peak				
5 10640.000	43.35	39.63	7.48	37.33	53.13	74.00	-20.87	HORIZONTAL	Peak				
6 15960.000	39.92	38.37	9.85	35.40	52.74	74.00	-21.26	HORIZONTAL	Peak				

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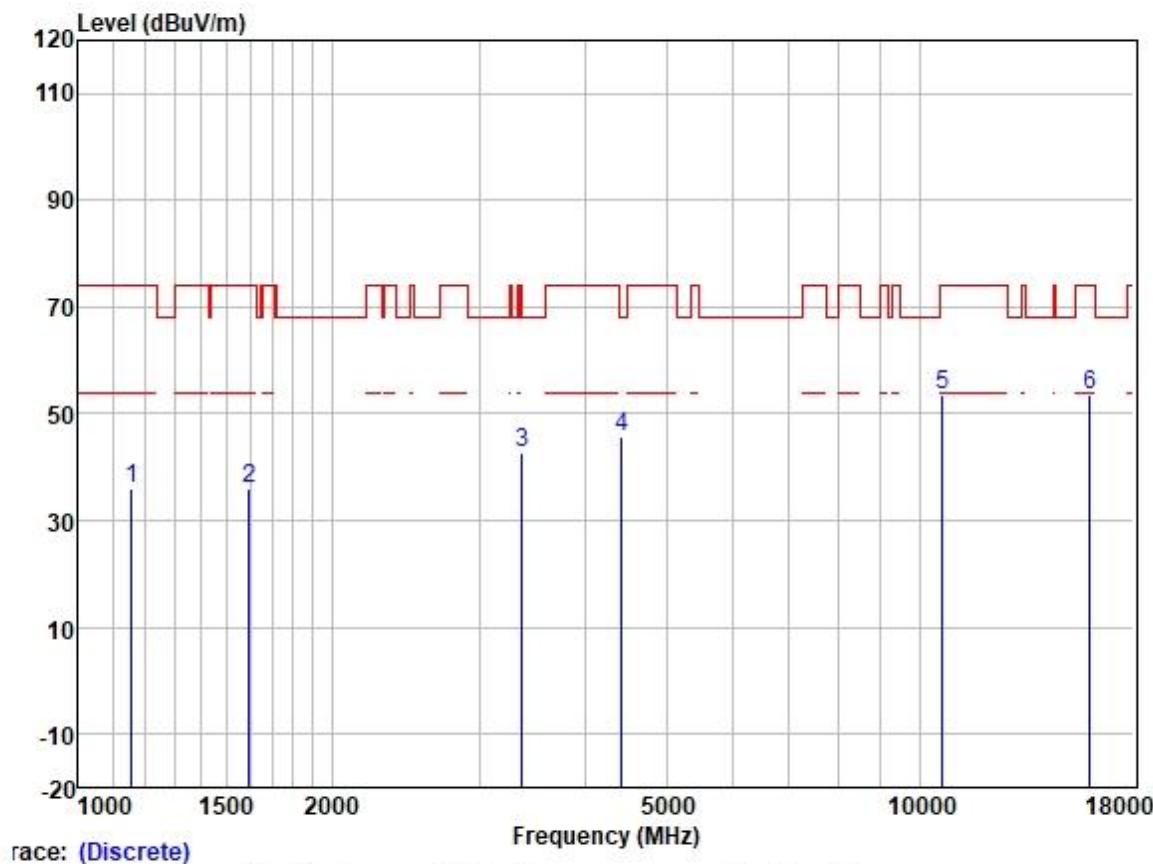


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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1155.483	47.71	24.51	2.38	38.42	36.18	74.00	-37.82	VERTICAL	Peak	
2	1597.181	45.65	25.58	2.80	37.98	36.05	74.00	-37.95	VERTICAL	Peak	
3	3366.778	46.84	28.82	4.09	36.99	42.76	68.20	-25.44	VERTICAL	Peak	
4	4430.628	46.83	30.72	4.78	36.81	45.52	68.20	-22.68	VERTICAL	Peak	
5	10640.000	43.75	39.63	7.48	37.33	53.53	74.00	-20.47	VERTICAL	Peak	
6	15960.000	40.62	38.37	9.85	35.40	53.44	74.00	-20.56	VERTICAL	Peak	

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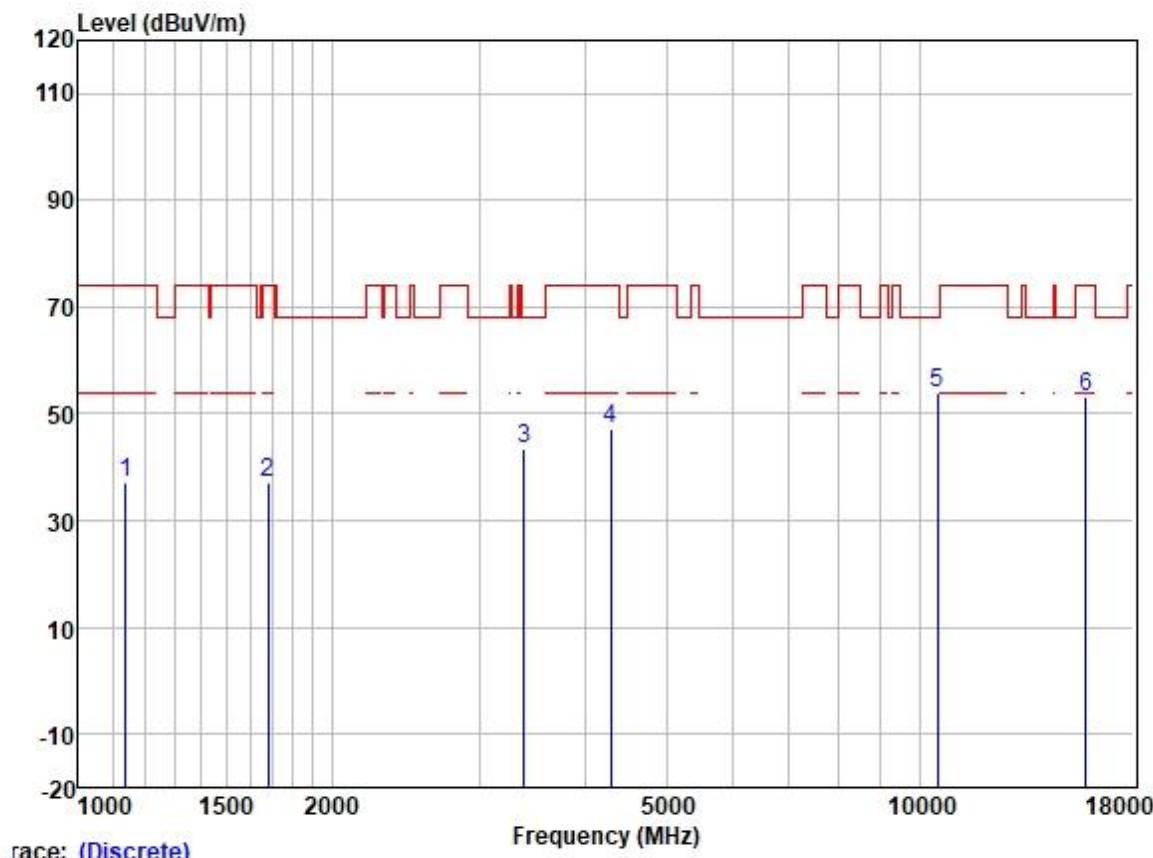
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1138.904	48.89	24.46	2.27	38.42	37.20	74.00	-36.80	HORIZONTAL	Peak	
2	1682.477	46.62	25.68	2.80	37.91	37.19	74.00	-36.81	HORIZONTAL	Peak	
3	3386.297	47.54	28.83	4.10	36.99	43.48	68.20	-24.72	HORIZONTAL	Peak	
4	4291.977	48.76	30.45	4.64	36.81	47.04	74.00	-26.96	HORIZONTAL	Peak	
5	10520.000	44.46	39.50	7.42	37.35	54.03	68.20	-14.17	HORIZONTAL	Peak	
6	15780.000	39.84	38.70	9.86	35.39	53.01	74.00	-20.99	HORIZONTAL	Peak	

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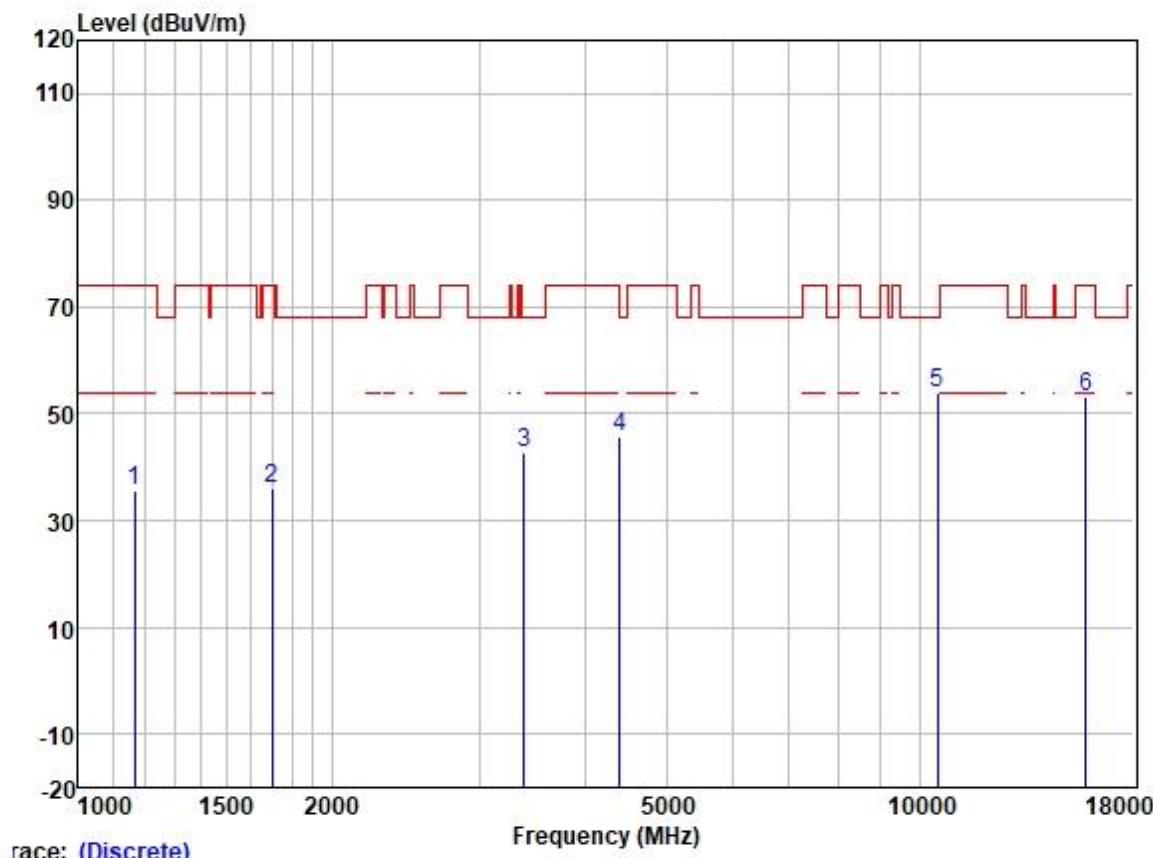
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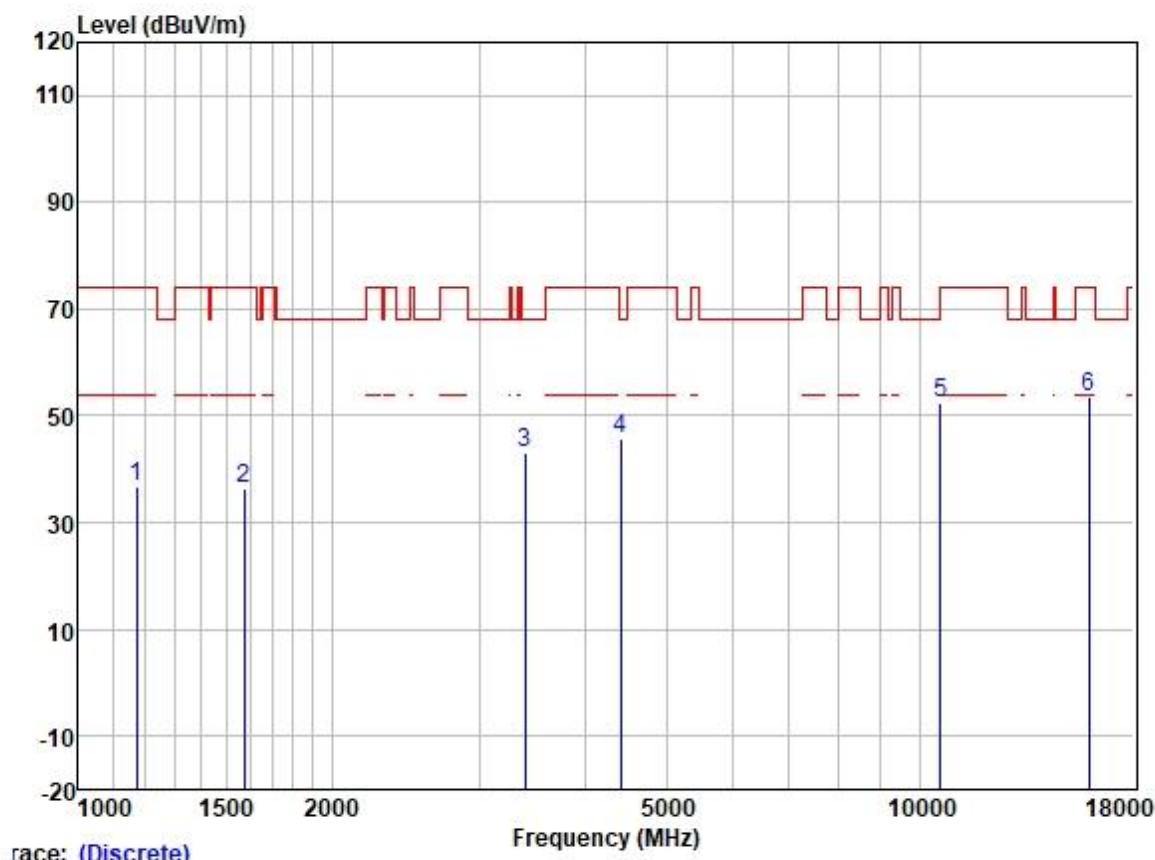
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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



Index	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	Level	Factor				dB	dB	dBuV/m	dBuV/m	dB	
1	1172.303	48.20	24.56	2.39	38.40	36.75	74.00	-37.25	HORIZONTAL	Peak				
2	1574.265	45.94	25.56	2.80	38.00	36.30	74.00	-37.70	HORIZONTAL	Peak				
3	3396.098	47.03	28.84	4.10	36.98	42.99	68.20	-25.21	HORIZONTAL	Peak				
4	4417.841	47.09	30.70	4.74	36.81	45.72	68.20	-22.48	HORIZONTAL	Peak				
5	10600.000	42.71	39.59	7.46	37.34	52.42	68.20	-15.78	HORIZONTAL	Peak				
6	15900.000	40.59	38.44	9.86	35.40	53.49	74.00	-20.51	HORIZONTAL	Peak				

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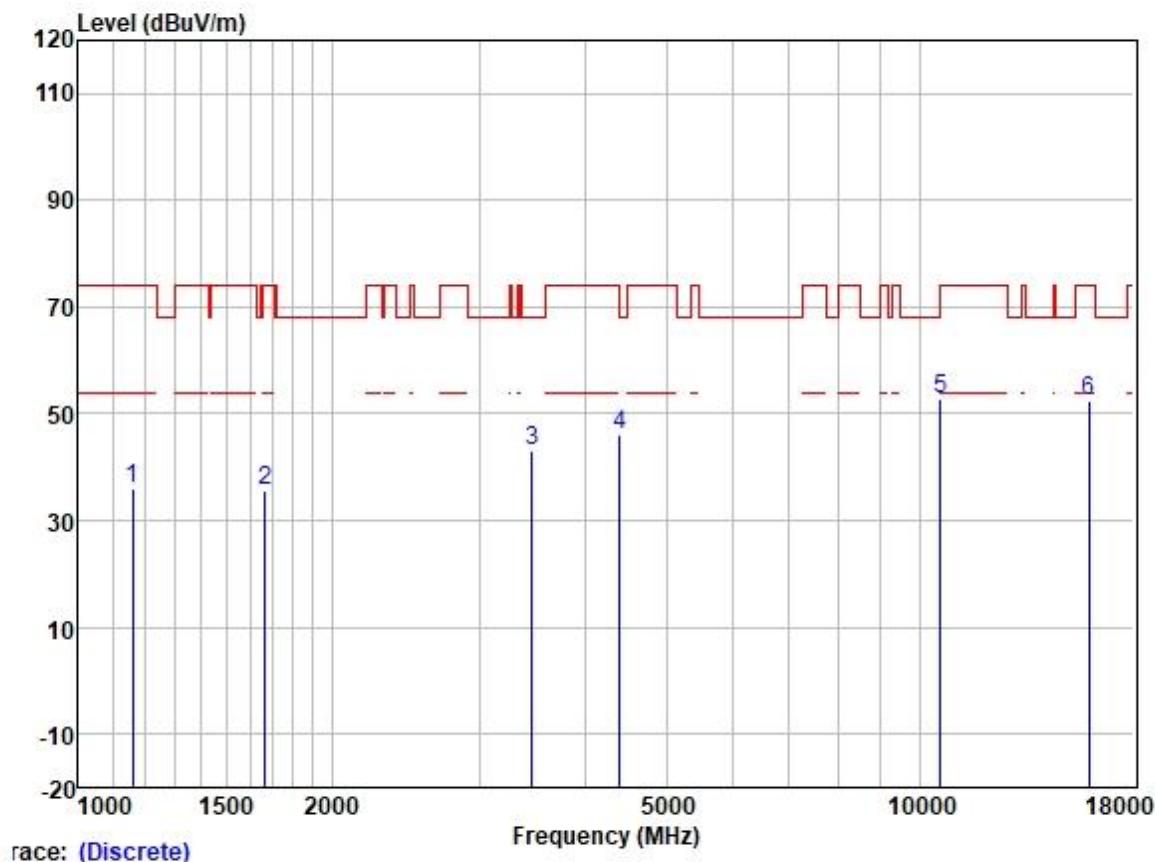
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1	1158.828	47.54	24.52	2.40	38.42	36.04	74.00	-37.96	VERTICAL	Peak	
2	1667.951	45.23	25.66	2.80	37.91	35.78	74.00	-38.22	VERTICAL	Peak	
3	3465.510	47.09	28.88	4.22	36.95	43.24	68.20	-24.96	VERTICAL	Peak	
4	4405.090	47.56	30.68	4.70	36.81	46.13	68.20	-22.07	VERTICAL	Peak	
5	10600.000	43.08	39.59	7.46	37.34	52.79	68.20	-15.41	VERTICAL	Peak	
6	15900.000	39.55	38.44	9.86	35.40	52.45	74.00	-21.55	VERTICAL	Peak	

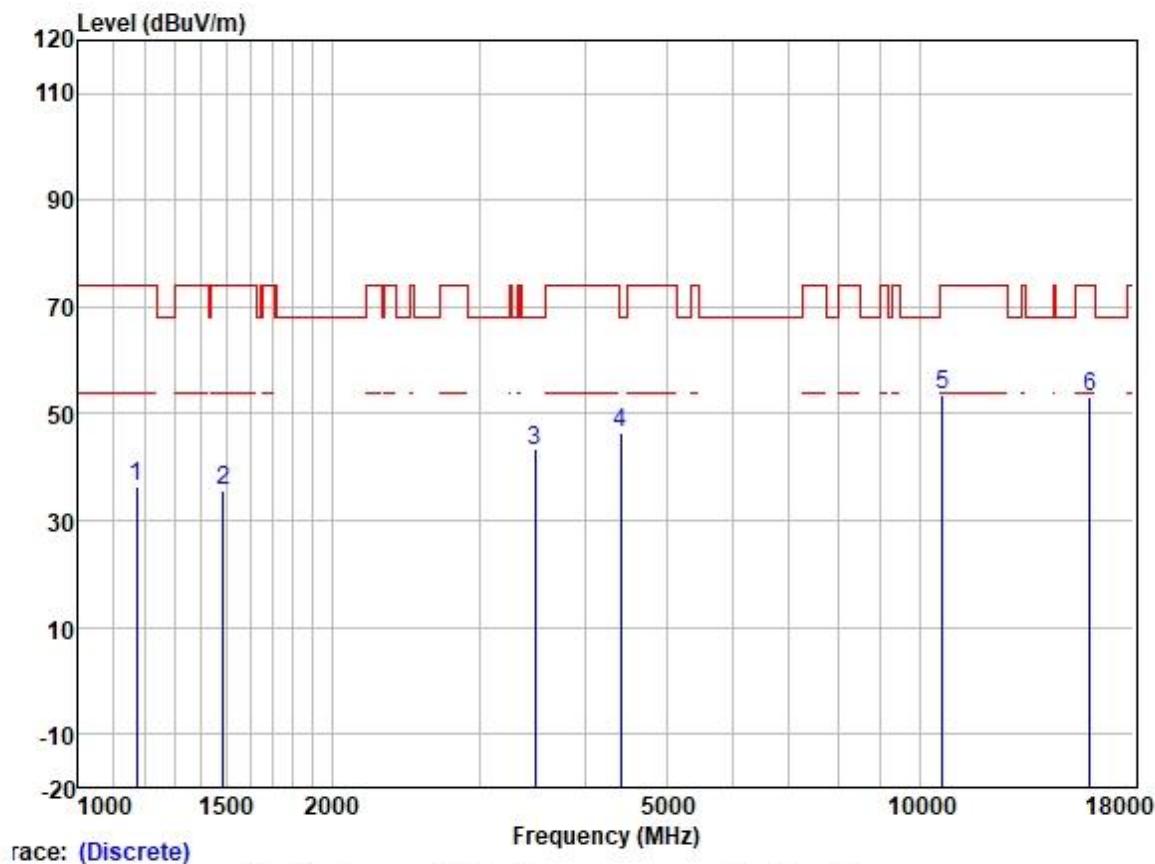
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB			
1	1172.303	48.00	24.56	2.39	38.40	36.55	74.00	-37.45	HORIZONTAL	Peak	
2	1485.841	45.62	25.49	2.78	38.13	35.76	74.00	-38.24	HORIZONTAL	Peak	
3	3495.691	47.02	28.90	4.30	36.94	43.28	68.20	-24.92	HORIZONTAL	Peak	
4	4417.841	47.76	30.70	4.74	36.81	46.39	68.20	-21.81	HORIZONTAL	Peak	
5	10640.000	43.74	39.63	7.48	37.33	53.52	74.00	-20.48	HORIZONTAL	Peak	
6	15960.000	40.35	38.37	9.85	35.40	53.17	74.00	-20.83	HORIZONTAL	Peak	

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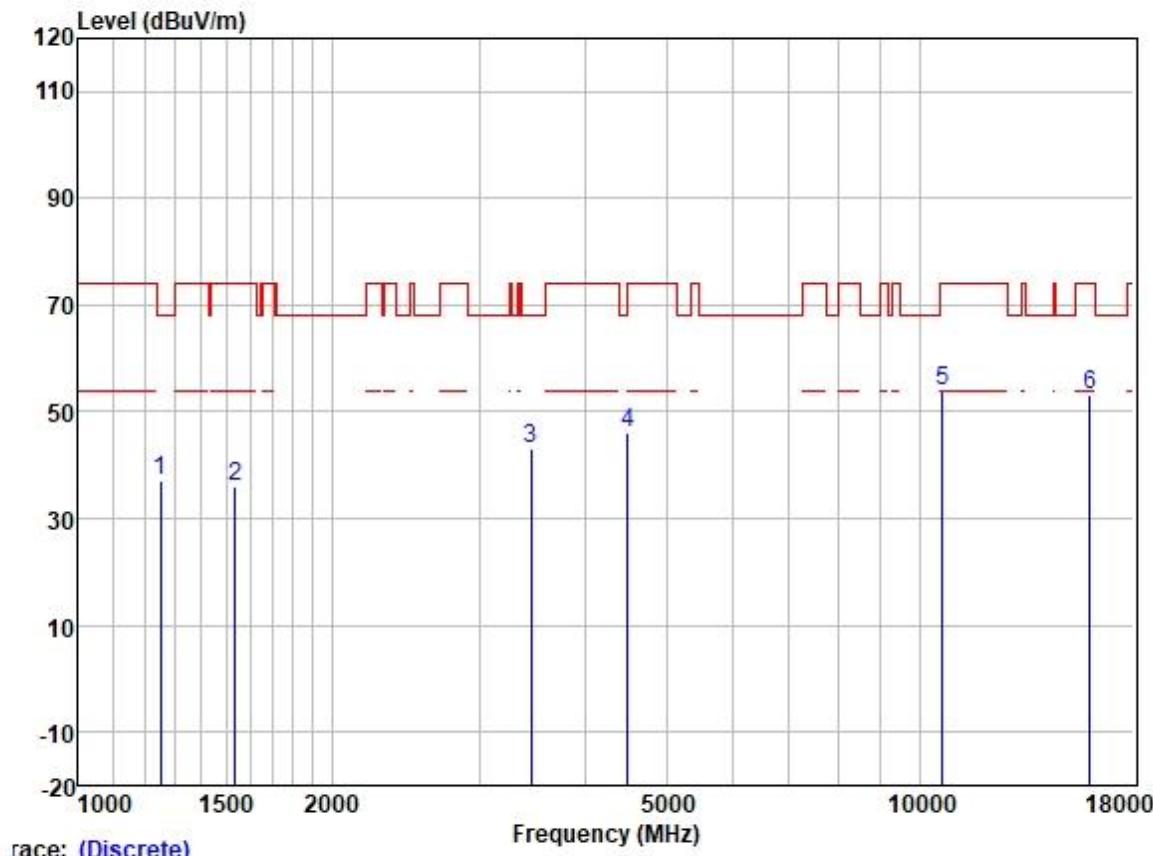
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB			
1	1252.885	48.13	25.03	2.36	38.35	37.17	68.20	-31.03	VERTICAL	Peak	
2	1538.281	45.80	25.53	2.80	38.03	36.10	74.00	-37.90	VERTICAL	Peak	
3	3455.508	46.90	28.88	4.20	36.96	43.02	68.20	-25.18	VERTICAL	Peak	
4	4495.125	46.99	30.80	5.05	36.82	46.02	68.20	-22.18	VERTICAL	Peak	
5	10640.000	44.20	39.63	7.48	37.33	53.98	74.00	-20.02	VERTICAL	Peak	
6	15960.000	40.22	38.37	9.85	35.40	53.04	74.00	-20.96	VERTICAL	Peak	

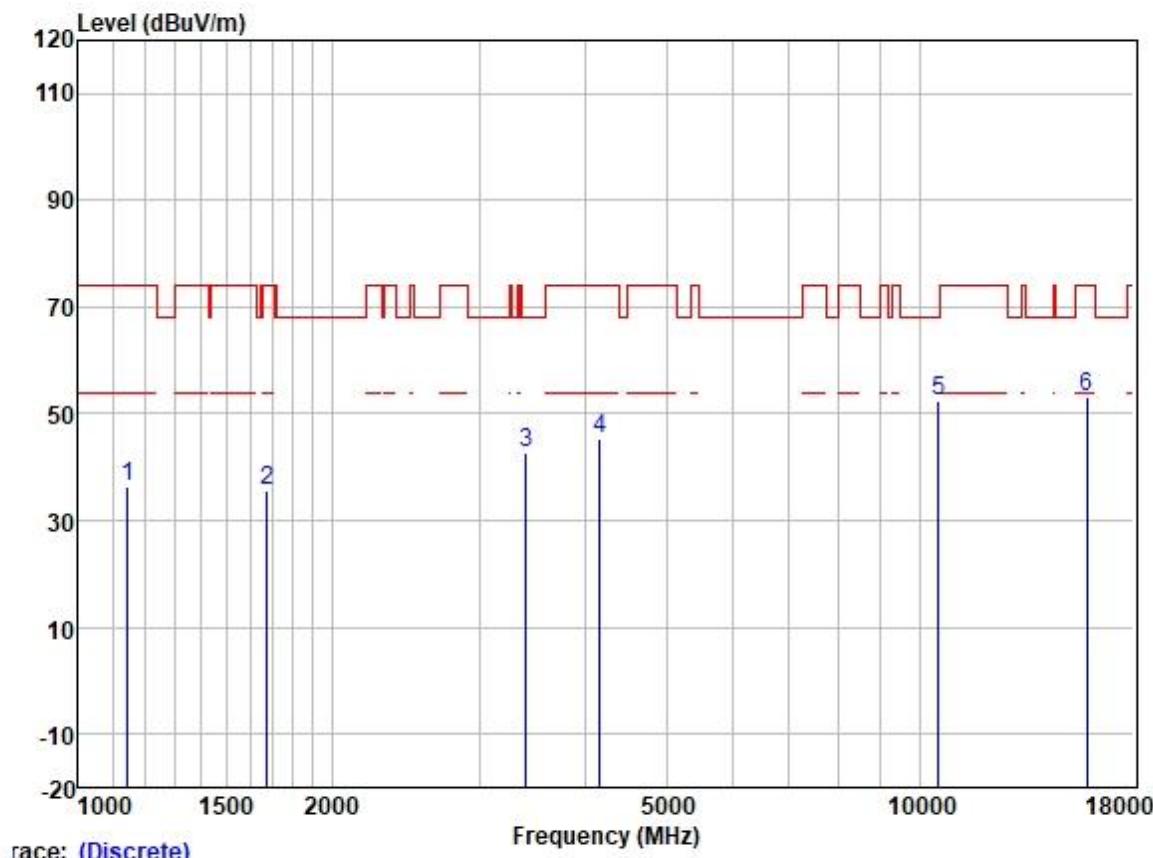
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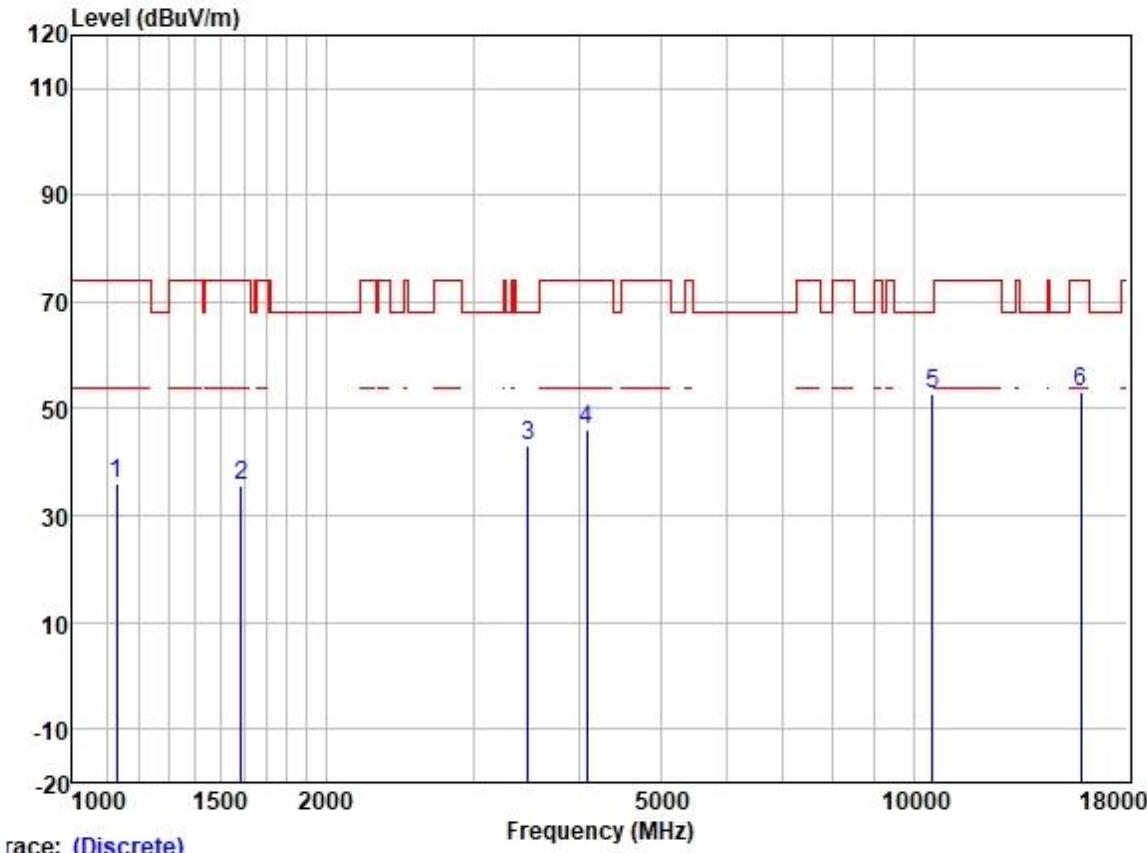
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB										
1 1129.072	47.63	24.43	2.20	38.43	35.83	74.00	-38.17	VERTICAL	Peak					
2 1587.975	45.13	25.57	2.80	37.98	35.52	74.00	-38.48	VERTICAL	Peak					
3 3485.601	46.86	28.89	4.27	36.95	43.07	68.20	-25.13	VERTICAL	Peak					
4 4086.182	48.18	29.92	4.60	36.80	45.90	74.00	-28.10	VERTICAL	Peak					
5 10540.000	43.24	39.53	7.43	37.35	52.85	68.20	-15.35	VERTICAL	Peak					
6 15810.000	40.26	38.61	9.86	35.39	53.34	74.00	-20.66	VERTICAL	Peak					

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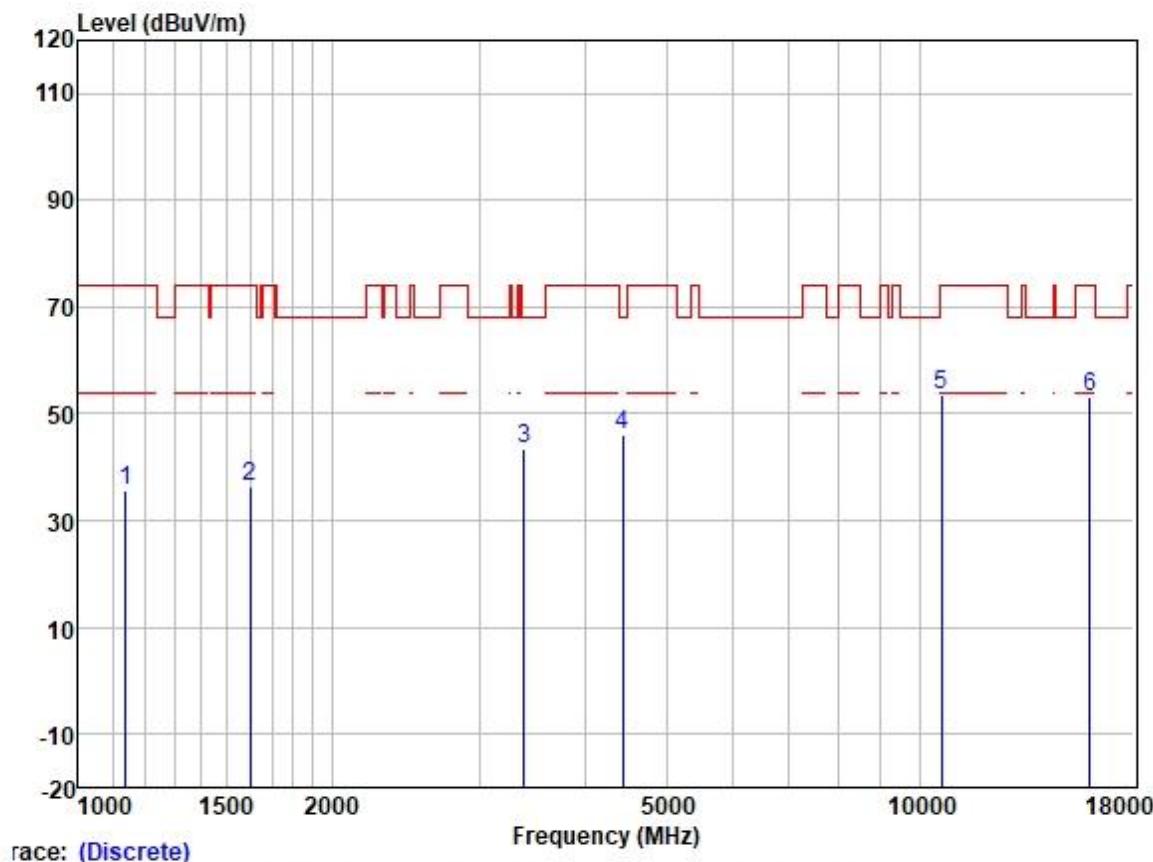
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1138.904	47.46	24.46	2.27	38.42	35.77	74.00	-38.23	HORIZONTAL	Peak	
2	1601.804	45.80	25.58	2.80	37.98	36.20	74.00	-37.80	HORIZONTAL	Peak	
3	3386.297	47.37	28.83	4.10	36.99	43.31	68.20	-24.89	HORIZONTAL	Peak	
4	4443.453	47.48	30.73	4.83	36.81	46.23	68.20	-21.97	HORIZONTAL	Peak	
5	10620.000	43.87	39.59	7.46	37.34	53.58	74.00	-20.42	HORIZONTAL	Peak	
6	15930.000	40.26	38.37	9.85	35.40	53.08	74.00	-20.92	HORIZONTAL	Peak	

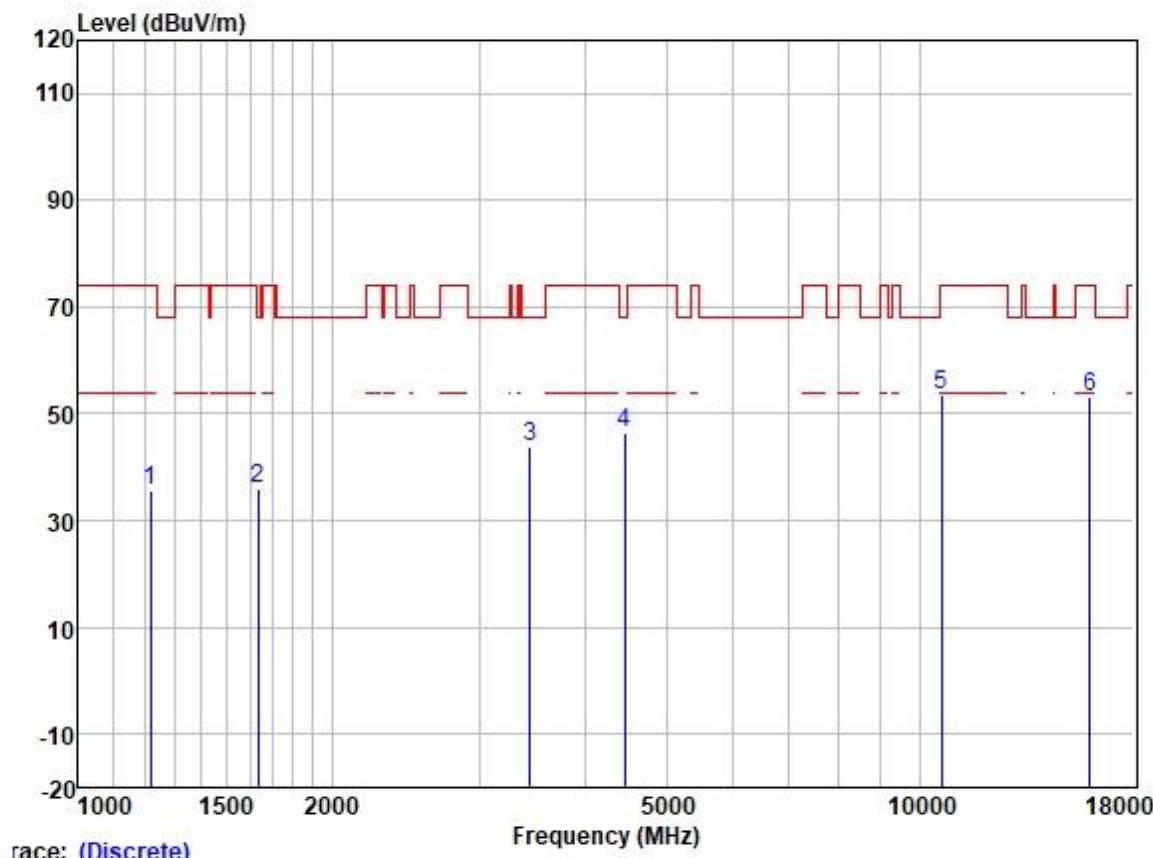
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1217.190	47.03	24.79	2.32	38.37	35.77	74.00	-38.23	VERTICAL	Peak	
2	1634.543	45.36	25.62	2.80	37.95	35.83	68.20	-32.37	VERTICAL	Peak	
3	3445.535	47.62	28.87	4.18	36.96	43.71	68.20	-24.49	VERTICAL	Peak	
4	4456.315	47.56	30.75	4.88	36.81	46.38	68.20	-21.82	VERTICAL	Peak	
5	10620.000	43.89	39.59	7.46	37.34	53.60	74.00	-20.40	VERTICAL	Peak	
6	15930.000	40.37	38.37	9.85	35.40	53.19	74.00	-20.81	VERTICAL	Peak	

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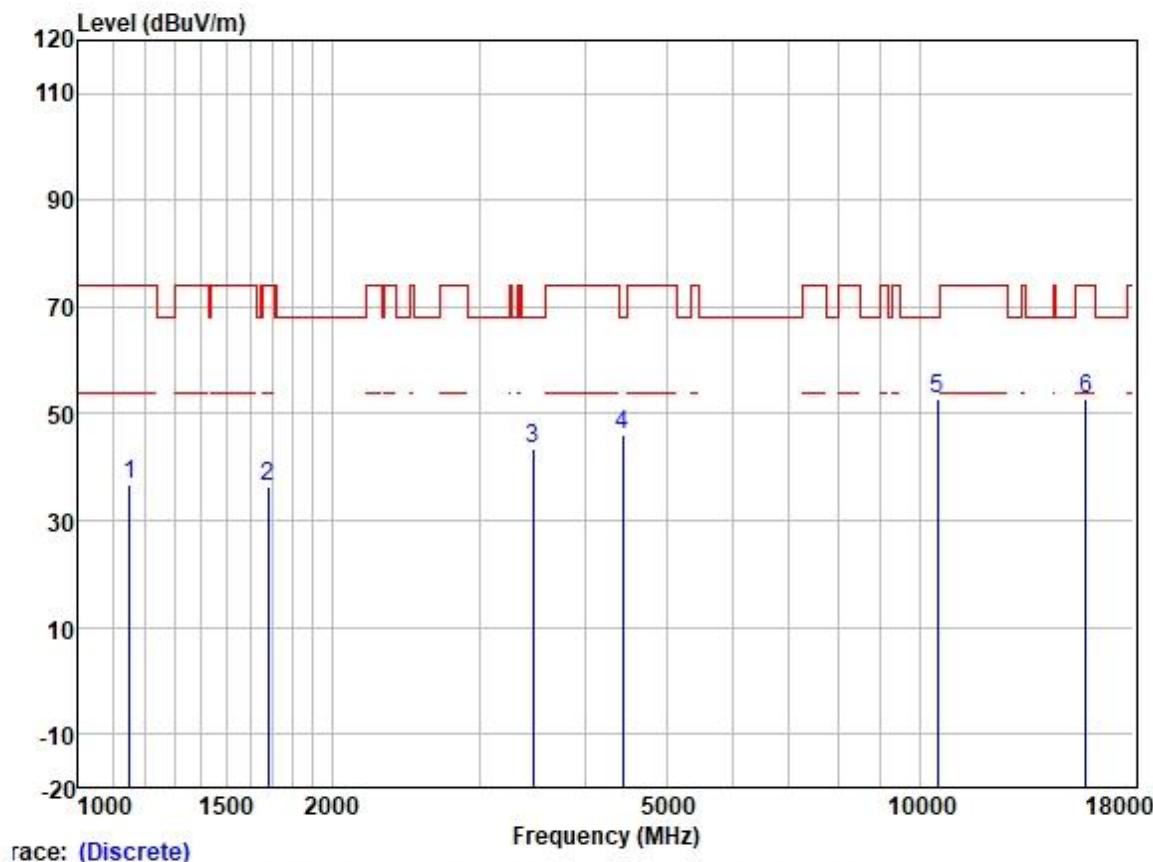
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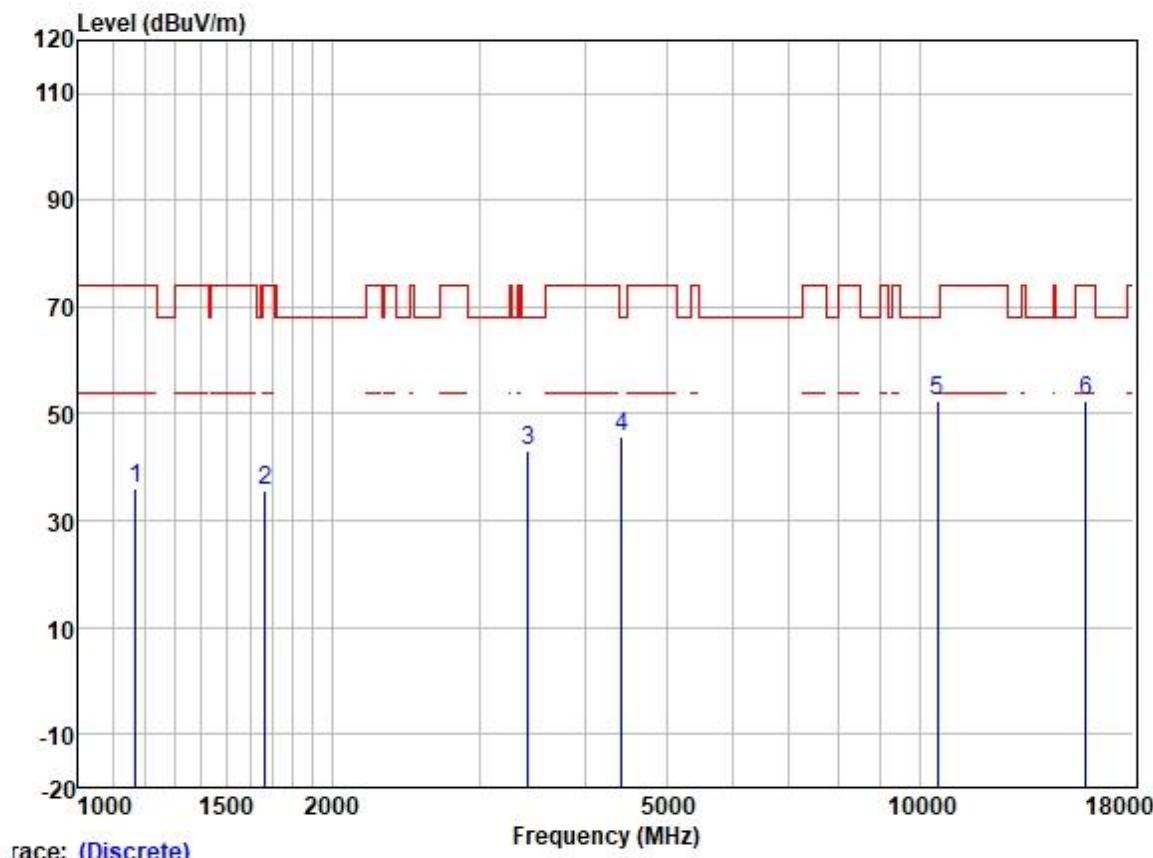
Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1168.920	47.58	24.55	2.39	38.40	36.12	74.00	-37.88	VERTICAL	Peak	
2	1667.951	45.07	25.66	2.80	37.91	35.62	74.00	-38.38	VERTICAL	Peak	
3	3425.675	47.01	28.86	4.15	36.97	43.05	68.20	-25.15	VERTICAL	Peak	
4	4430.628	47.08	30.72	4.78	36.81	45.77	68.20	-22.43	VERTICAL	Peak	
5	10520.000	42.83	39.50	7.42	37.35	52.40	68.20	-15.80	VERTICAL	Peak	
6	15780.000	39.40	38.70	9.86	35.39	52.57	74.00	-21.43	VERTICAL	Peak	

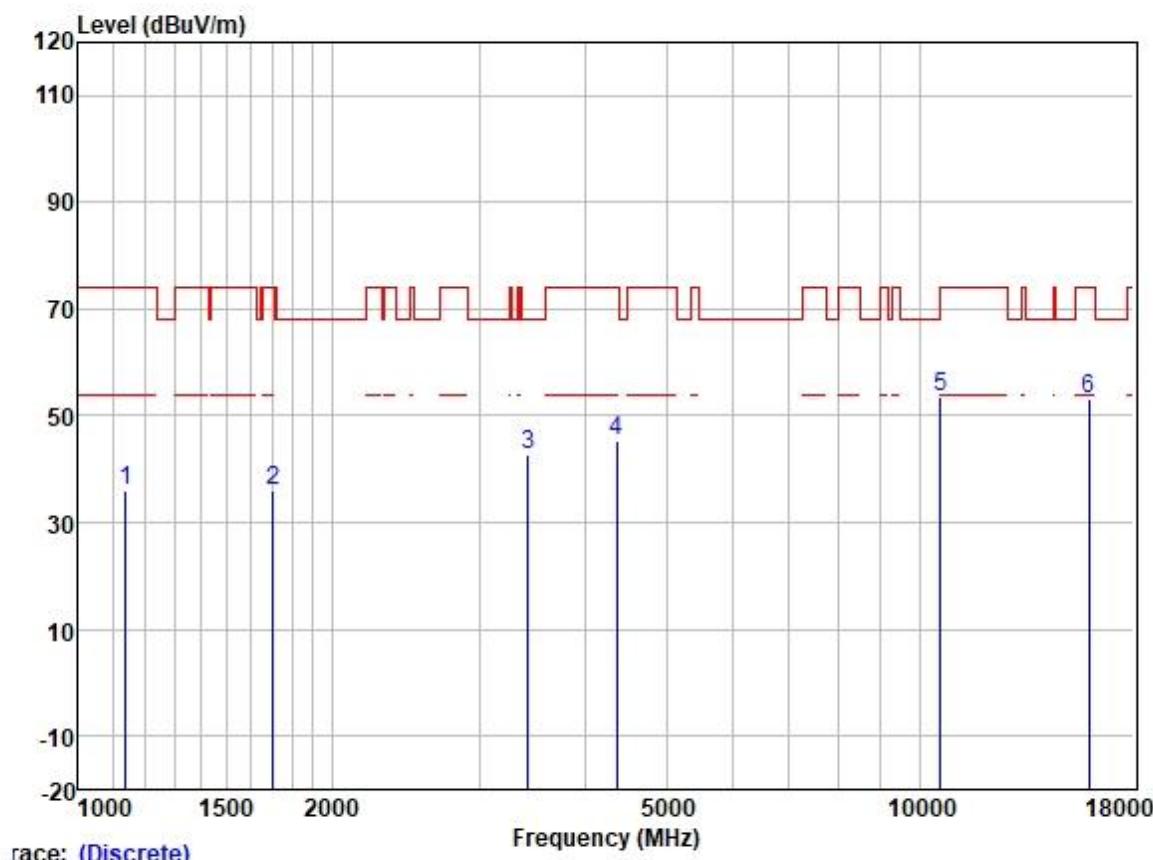
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1138.904	47.67	24.46	2.27	38.42	35.98	74.00	-38.02	HORIZONTAL	Peak				
2 1702.042	45.31	25.72	2.80	37.89	35.94	74.00	-38.06	HORIZONTAL	Peak				
3 3425.675	46.55	28.86	4.15	36.97	42.59	68.20	-25.61	HORIZONTAL	Peak				
4 4367.058	46.93	30.62	4.68	36.81	45.42	74.00	-28.58	HORIZONTAL	Peak				
5 10600.000	43.79	39.59	7.46	37.34	53.50	68.20	-14.70	HORIZONTAL	Peak				
6 15900.000	40.10	38.44	9.86	35.40	53.00	74.00	-21.00	HORIZONTAL	Peak				

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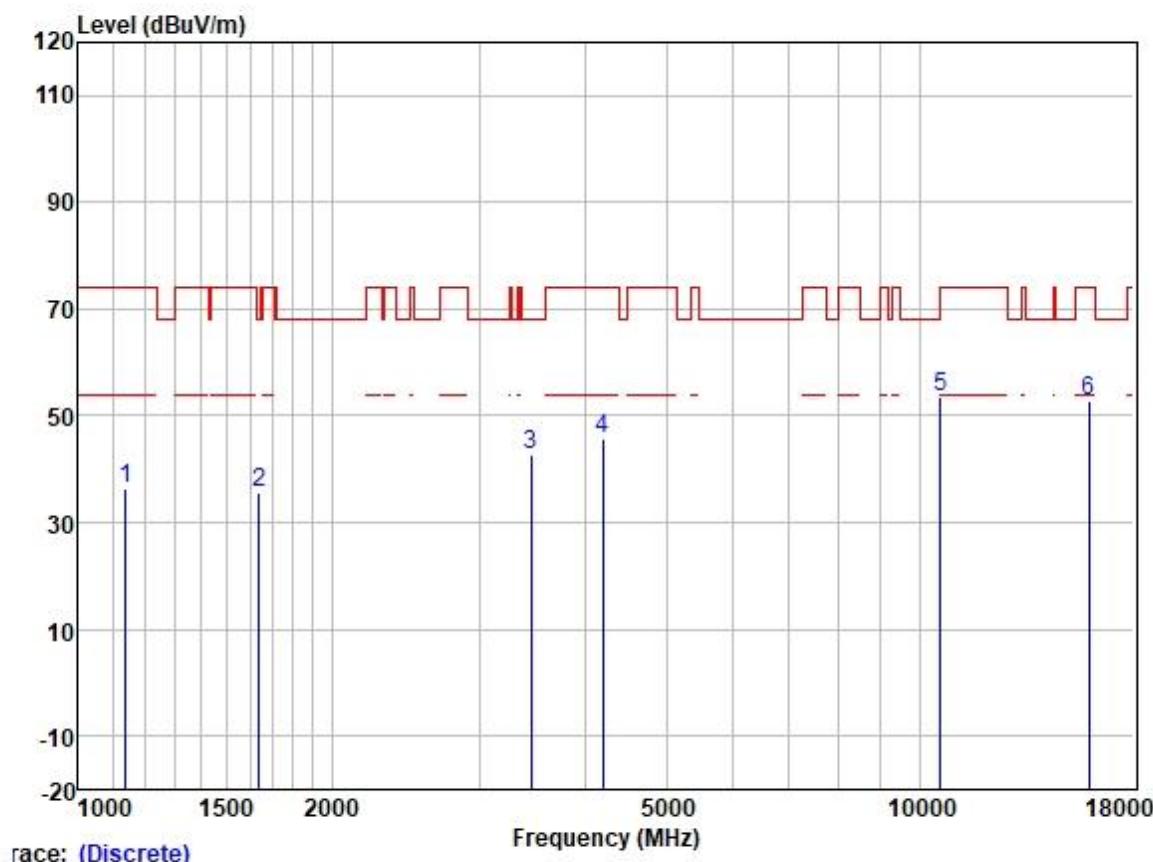
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1138.904	48.06	24.46	2.27	38.42	36.37	74.00	-37.63	VERTICAL	Peak	
2	1639.274	45.03	25.62	2.80	37.93	35.52	68.20	-32.68	VERTICAL	Peak	
3	3455.508	46.63	28.88	4.20	36.96	42.75	68.20	-25.45	VERTICAL	Peak	
4	4206.011	47.85	30.18	4.60	36.81	45.82	74.00	-28.18	VERTICAL	Peak	
5	10600.000	44.00	39.59	7.46	37.34	53.71	68.20	-14.49	VERTICAL	Peak	
6	15900.000	39.94	38.44	9.86	35.40	52.84	74.00	-21.16	VERTICAL	Peak	

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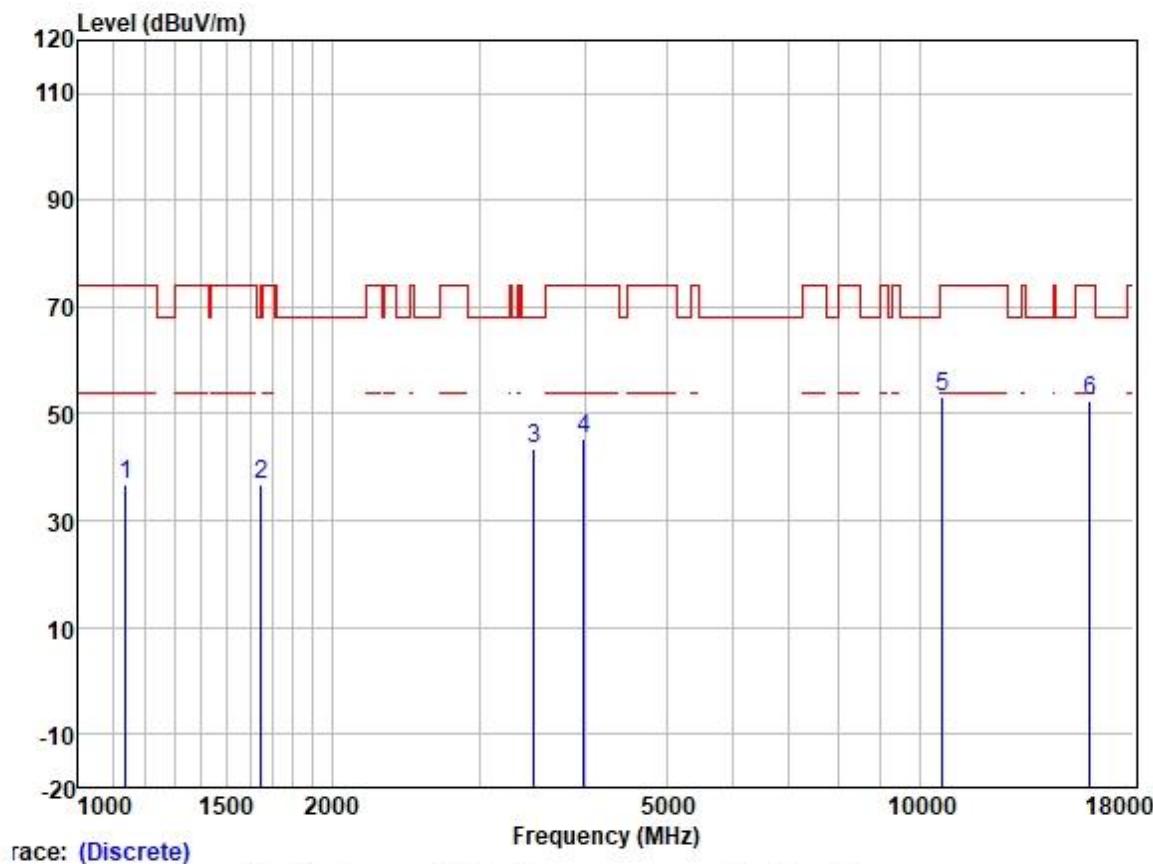
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1 1138.904	48.48	24.46	2.27	38.42	36.79	74.00	-37.21	HORIZONTAL	Peak				
2 1648.778	46.22	25.63	2.80	37.93	36.72	68.20	-31.48	HORIZONTAL	Peak				
3 3485.601	47.20	28.89	4.27	36.95	43.41	68.20	-24.79	HORIZONTAL	Peak				
4 3992.781	47.68	29.79	4.60	36.80	45.27	74.00	-28.73	HORIZONTAL	Peak				
5 10640.000	43.52	39.63	7.48	37.33	53.30	74.00	-20.70	HORIZONTAL	Peak				
6 15960.000	39.78	38.37	9.85	35.40	52.60	74.00	-21.40	HORIZONTAL	Peak				

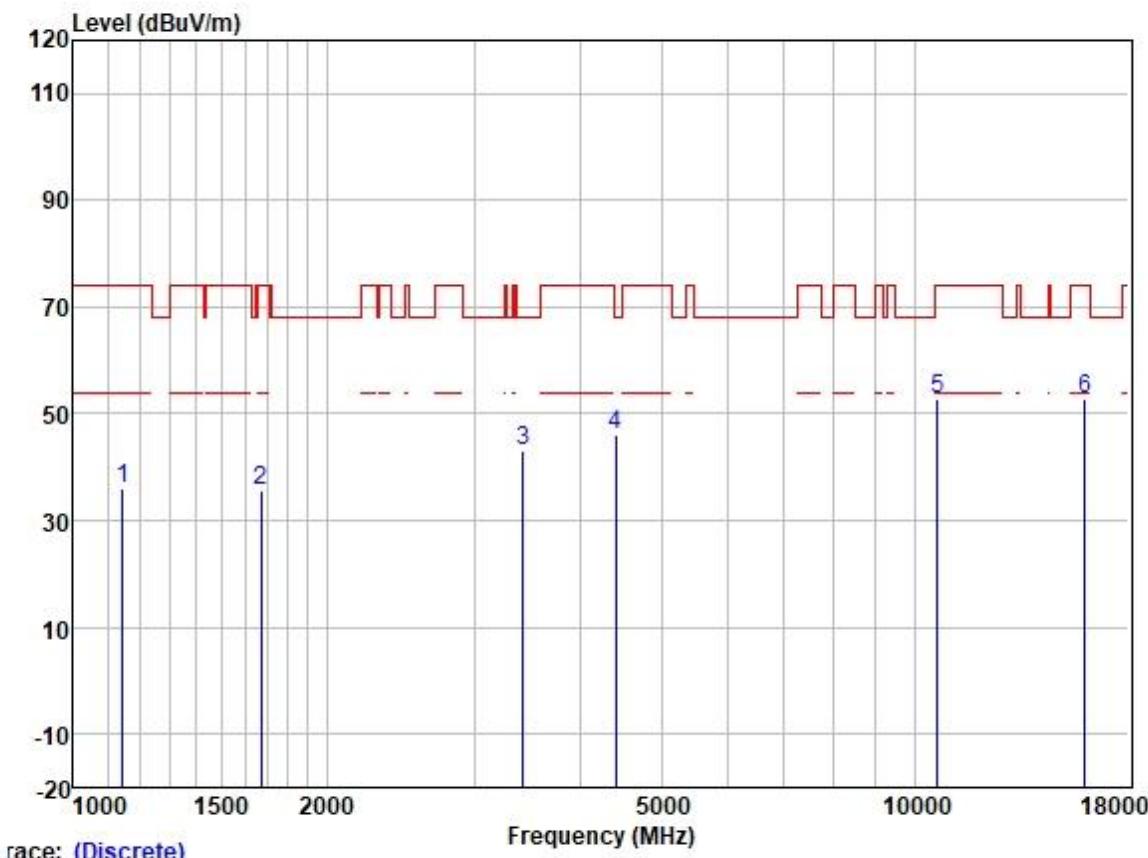
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1145.507	47.62	24.48	2.32	38.42	36.00	74.00	-38.00	VERTICAL				Peak	
2 1672.779	45.02	25.67	2.80	37.91	35.58	74.00	-38.42	VERTICAL				Peak	
3 3425.675	46.93	28.86	4.15	36.97	42.97	68.20	-25.23	VERTICAL				Peak	
4 4417.841	47.45	30.70	4.74	36.81	46.08	68.20	-22.12	VERTICAL				Peak	
5 10640.000	43.18	39.63	7.48	37.33	52.96	74.00	-21.04	VERTICAL				Peak	
6 15960.000	39.81	38.37	9.85	35.40	52.63	74.00	-21.37	VERTICAL				Peak	

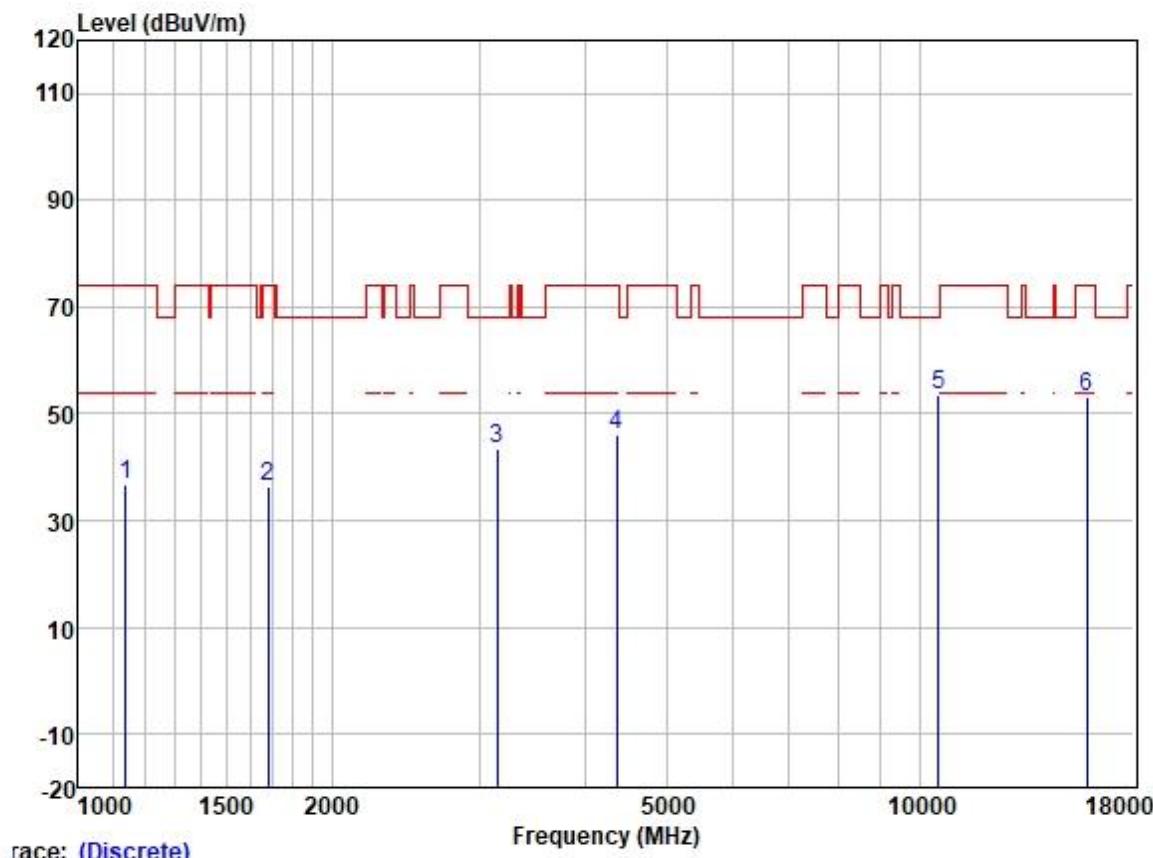
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1138.904	48.53	24.46	2.27	38.42	36.84	74.00	-37.16	HORIZONTAL	Peak		
2 1682.477	45.62	25.68	2.80	37.91	36.19	74.00	-37.81	HORIZONTAL	Peak		
3 3150.237	48.00	28.52	3.96	37.12	43.36	68.20	-24.84	HORIZONTAL	Peak		
4 4367.058	47.68	30.62	4.68	36.81	46.17	74.00	-27.83	HORIZONTAL	Peak		
5 10540.000	43.81	39.53	7.43	37.35	53.42	68.20	-14.78	HORIZONTAL	Peak		
6 15810.000	39.92	38.61	9.86	35.39	53.00	74.00	-21.00	HORIZONTAL	Peak		

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