



TEST REPORT

Application No.: GZCR2108020806AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Rugged Tablet
Model No.: DT382GL, DT382xxxx(x= 0-9, A~Z, - or null) ☐
☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2021-08-05
Date of Test: 2021-08-05 to 2021-08-23
Date of Issue: 2021-08-27

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		2021-08-27		Original

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

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart 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
Radiated Emissions (below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (above 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
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass

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.

Remark:

Model No.: DT382GL, DT382xxxx(x= 0-9, A-Z, - or null)

Only the model DT382GL was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model no.

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600D, Granted on 08/04/2017.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID:YE3600D was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application uses a new antenna of the different type, Lower gain and is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model DT382GL and shown the data in this report.



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3 Contents

	Page
1 Cover Page	1
2 Test Summary.....	3
3 Contents	5
4 General Information.....	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units.....	10
4.3 Measurement Uncertainty	10
4.4 Test Location	10
4.5 Test Facility.....	11
4.6 Deviation from Standards.....	11
4.7 Abnormalities from Standard Conditions.....	11
5 Equipment List	12
6 Radio Spectrum Technical Requirement.....	15
6.1 Antenna Requirement	15
6.1.1 Test Requirement:	15
6.1.2 Conclusion	15
6.2 Transmission in the Absence of Data	16
6.2.1 Test Requirement:	16
6.2.2 Conclusion	16
7 Radio Spectrum Matter Test Results.....	17
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	17
7.1.1 E.U.T. Operation	17
7.1.2 Test Mode Description	17
7.1.3 Test Setup Diagram	18
7.1.4 Measurement Procedure and Data.....	18
7.2 Radiated Emissions (below 1GHz)	21
7.2.1 E.U.T. Operation.....	21
7.2.2 Test Mode Description	22
7.2.3 Test Setup Diagram	23
7.2.4 Measurement Procedure and Data.....	24
7.3 Radiated Emissions (above 1GHz).....	27
7.3.1 E.U.T. Operation.....	27
7.3.2 Test Mode Description	28
7.3.3 Test Setup Diagram	29
7.3.4 Measurement Procedure and Data.....	30
7.4 Radiated Emissions which fall in the restricted bands	149
7.4.1 E.U.T. Operation.....	149
7.4.2 Test Mode Description	150
7.4.3 Test Setup Diagram	151
7.4.4 Measurement Procedure and Data.....	152
7.5 Non-occupancy period	243
7.5.1 E.U.T. Operation.....	243



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7.5.2	Test Mode Description	243
7.5.3	Test Setup Diagram	244
7.5.4	Measurement Procedure and Data	245
7.6	Channel Move Time	246
7.6.1	E.U.T. Operation	246
7.6.2	Test Mode Description	246
7.6.3	Test Setup Diagram	247
7.6.4	Measurement Procedure and Data	248
7.7	Channel Closing Transmission Time	249
7.7.1	E.U.T. Operation	249
7.7.2	Test Mode Description	249
7.7.3	Test Setup Diagram	250
7.7.4	Measurement Procedure and Data	251
8	Test Setup Photo	252
9	EUT Constructional Details (EUT Photos)	255
10	Appendix	256

4 General Information

4.1 Details of E.U.T.

Power supply: AC Adapter
Model: A17-065N1A
Input: AC 100-240V, 50/60Hz, 1.8A
Output: DC 20V, 3.25A/DC15V, 3A/DC9V, 2A/DC5V, 2A
Rechargeable lithium-Ion Polymer Battery
Model: ACC-006-60K(3ICP9/36/115)
Rated Capacity:5400mAh
Voltage: 11.4VDC
Watt-Hour: 61.56Wh
Max Charge Voltage:13.05V

Test voltage: AC 120V, 60Hz or AC 230V, 50Hz
Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);

Cable(s): AC cable:172cm unshielded
DC cable:175cm unshielded

Internal Source: More than 108MHz

Operation
Frequency:

Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	IEEE 802.11a/n (HT20)	5180-5240	4
	IEEE 802.11n (HT40)	5190-5230	2
	IEEE 802.11ac (HT80)	5210	1
UNII Band II-A	IEEE 802.11a/n (HT20)	5260-5320	4
	IEEE 802.11n (HT40)	5270-5310	2
	IEEE 802.11ac (HT80)	5290	1
UNII Band II-C	IEEE 802.11a/n (HT20)	5500-5720	12
	IEEE 802.11n (HT40)	5510-5710	6
	IEEE 802.11ac (HT80)	5530-5690	3
UNII Band III	IEEE 802.11a/n (HT20)	5745-5825	5
	IEEE 802.11n (HT40)	5755-5795	2
	IEEE 802.11ac (HT80)	5775	1

Modulation Type: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)
IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
IEEE 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

DFS Function: Slave without radar detection

TPC Function: Not support

Antenna Type: PIFA Antenna

Antenna Gain: Antenna1: 1.4dBi, Antenna2: 2.4dBi

Note: MIMO for 802.11n/ac.



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Channel list for 802.11a/n(HT20)/ac(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	60	5300MHz	116	5580MHz	140	5700MHz
40	5200MHz	64	5320MHz	120	5600MHz	149	5745MHz
44	5220MHz	100	5500MHz	124	5620MHz	153	5765MHz
48	5240MHz	104	5520MHz	128	5640MHz	157	5785MHz
52	5260MHz	108	5540MHz	132	5660MHz	161	5805MHz
56	5280MHz	112	5560MHz	136	5680MHz	165	5825MHz

Channel list for 802.11n(HT40)/ac(HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	62	5310MHz	118	5590MHz	151	5755MHz
46	5230MHz	102	5510MHz	126	5630MHz	159	5795MHz
54	5270MHz	110	5550MHz	134	5670MHz		

Channel list for 802.11ac(HT80)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	106	5530MHz	122	5610MHz	155	5775MHz
58	5290MHz						

Selected Test Channel for 802.11a/n(HT20)/ac(HT20)

Band	Channel	Frequency
U-NII Band I	The lowest channel (CH36)	5180MHz
	The middle channel (CH40)	5200MHz
	The highest channel (CH48)	5240MHz
U-NII Band II-A	The lowest channel (CH52)	5260MHz
	The middle channel (CH60)	5300MHz
	The highest channel (CH64)	5320MHz
U-NII Band II-C	The lowest channel (CH100)	5500MHz
	The highest channel (CH140)	5700MHz
U-NII Band III	The lowest channel (CH149)	5745MHz
	The middle channel (CH157)	5785MHz
	The highest channel (CH165)	5825MHz



Selected Test Channel for 802.11n(HT40)/ac(HT40)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH38)	5190MHz
	The highest channel (CH46)	5230MHz
U-NII Band II-A	The lowest channel (CH54)	5270MHz
	The highest channel (CH62)	5310MHz
U-NII Band II-C	The lowest channel (CH102)	5510MHz
	The middle channel (CH118)	5590MHz
	The highest channel (CH134)	5670MHz
U-NII Band III	The lowest channel (CH151)	5755MHz
	The highest channel (CH159)	5795MHz

Selected Test Channel for 802.11ac(HT80)		
Band	Channel	Frequency
U-NII Band I	One channel (CH42)	5210MHz
U-NII Band II-A	One channel (CH58)	5290MHz
U-NII Band II-C	The lowest channel (CH106)	5530MHz
U-NII Band III	One channel (CH155)	5775MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF
Note Book PC	LENOVO	Lenovo Xiaoxinchao 5000	PF0TLJX7
Wireless Router	Honor	HiRouter-CD30	AWTEQ20C04001295

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	3.12dB
Radiated Emissions (below 1GHz)	5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m)
Radiated Emissions (above 1GHz)	5.08 dB (1-6GHz); 5.14 (above 6 GHz)
Radiated Emissions which fall in the restricted bands	± 4.5dB (below 1GHz); ± 4.8dB (above 1GHz);
Remark: The U _{lab} (lab Uncertainty) is less than U _{CISPR} (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.

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-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

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

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

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



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DFS					
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	2021-07-15	2022-07-14
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
VARIABLE ATTENUATOR	TAMAGAWA ELECTRONICS CO.LTD	TRA-801	EMC02077	/	/
BENCHTOP ATTENUATOR	JFW INDUSTRIES INC.	50BR-068 SMA	EMC02076	/	/

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



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna1 is 1.4dBi, Antenna2 is 2.4dBi.

Antenna location: Refer to internal photo.

EUT support 2x2 MIMO for 802.11n, any transmit signals are correlated with each other, as unequal antenna gains for antenna 1 and antenna 2 but with equal transmit power, therefore,

$$\text{Directional gain} = G_{\text{ANT}} + 10 \log (N_{\text{ANT}}) \text{ dBi}$$

$$\text{Directional gain} = 2.4 + 10 \log (2) \text{ dBi} = 5.41 \text{ dBi}$$

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 (8265NGW) 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.

7 Radio Spectrum Matter Test Results

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

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	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	15	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	17	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.



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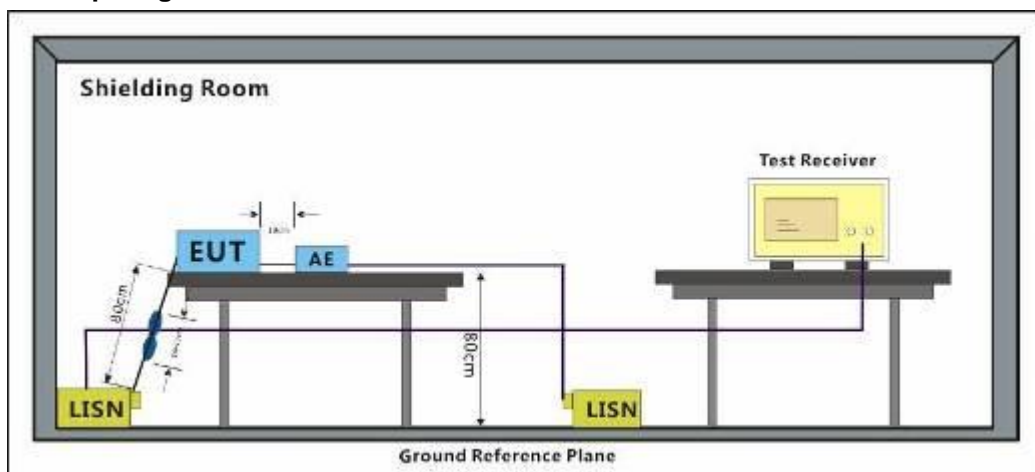
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Pre-scan 19

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.

7.1.3 Test Setup Diagram

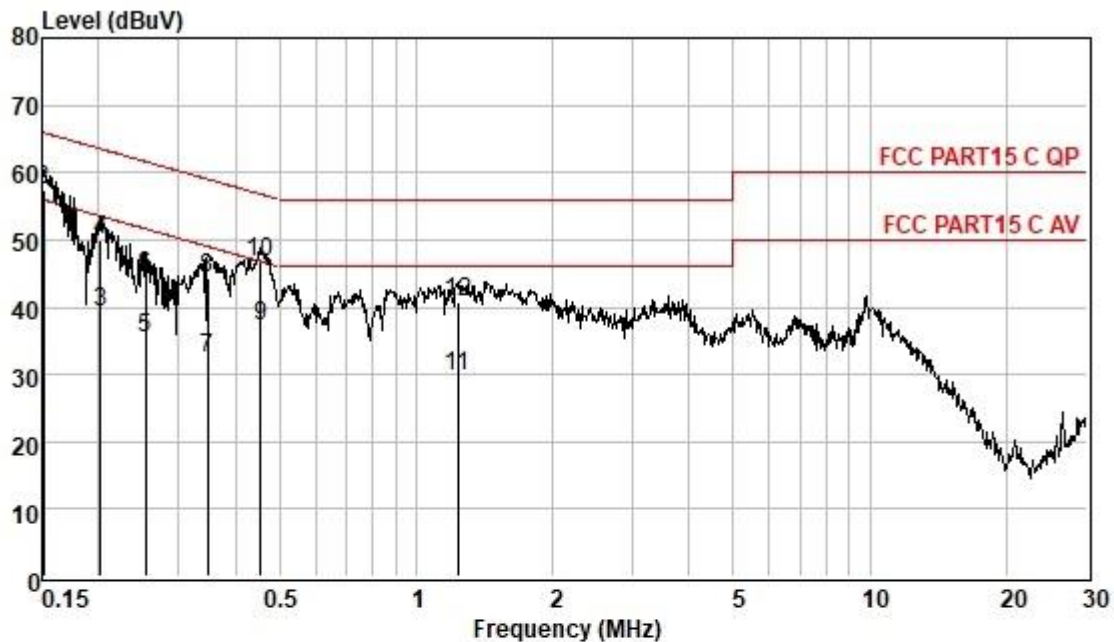


7.1.4 Measurement Procedure and Data

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

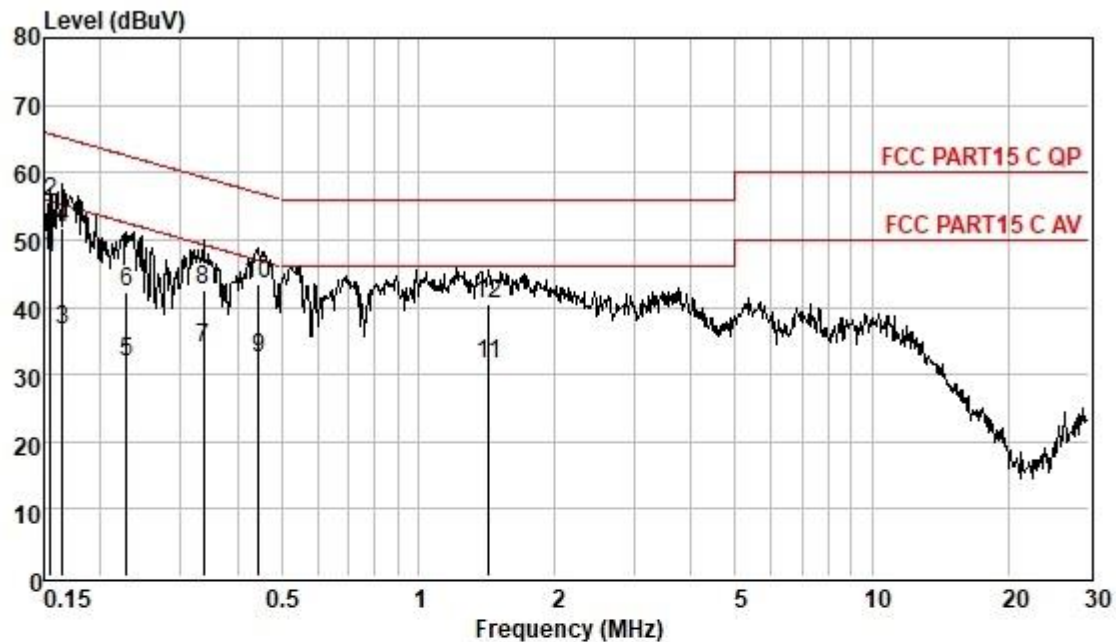
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Test Mode: 13; Line: Live line

Pol : LINE
Mode :
Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	36.71	0.06	9.62	46.39	55.96	-9.57	Average
0.15	47.59	0.06	9.62	57.27	65.96	-8.69	QP
0.20	29.58	0.06	9.63	39.27	53.54	-14.27	Average
0.20	40.33	0.06	9.63	50.02	63.54	-13.52	QP
0.25	25.84	0.06	9.62	35.52	51.64	-16.12	Average
0.25	34.93	0.06	9.62	44.61	61.64	-17.03	QP
0.35	22.82	0.06	9.63	32.51	49.00	-16.49	Average
0.35	34.76	0.06	9.63	44.45	59.00	-14.55	QP
0.45	27.63	0.06	9.63	37.32	46.80	-9.48	Average
0.45	36.89	0.06	9.63	46.58	56.80	-10.22	QP
1.24	19.99	0.09	9.61	29.69	46.00	-16.31	Average
1.24	30.90	0.09	9.61	40.60	56.00	-15.40	QP

Test Mode: 13; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.15	37.54	0.06	9.55	47.15	55.74	-8.59	Average
0.15	46.01	0.06	9.55	55.62	65.74	-10.12	QP
0.17	27.10	0.06	9.55	36.71	55.21	-18.50	Average
0.17	42.16	0.06	9.55	51.77	65.21	-13.44	QP
0.23	22.18	0.06	9.55	31.79	52.52	-20.73	Average
0.23	32.53	0.06	9.55	42.14	62.52	-20.38	QP
0.34	24.41	0.06	9.54	34.01	49.27	-15.26	Average
0.34	33.01	0.06	9.54	42.61	59.27	-16.66	QP
0.44	22.79	0.06	9.56	32.41	46.98	-14.57	Average
0.44	33.80	0.06	9.56	43.42	56.98	-13.56	QP
1.43	21.76	0.10	9.55	31.41	46.00	-14.59	Average
1.43	30.83	0.10	9.55	40.48	56.00	-15.52	QP

7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 54.6 % RH Atmospheric Pressure: 1010 mbar



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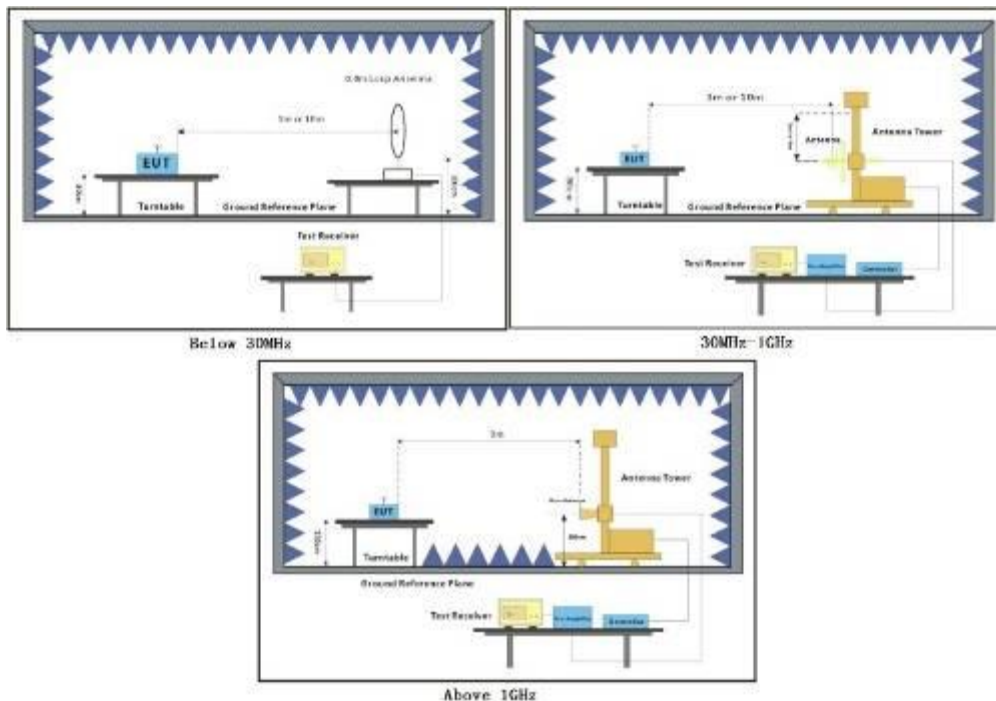
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7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	12	<p>TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Final test	13	<p>TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Pre-scan	14	<p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Pre-scan	15	<p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Pre-scan	16	<p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Pre-scan	17	<p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>

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

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1:

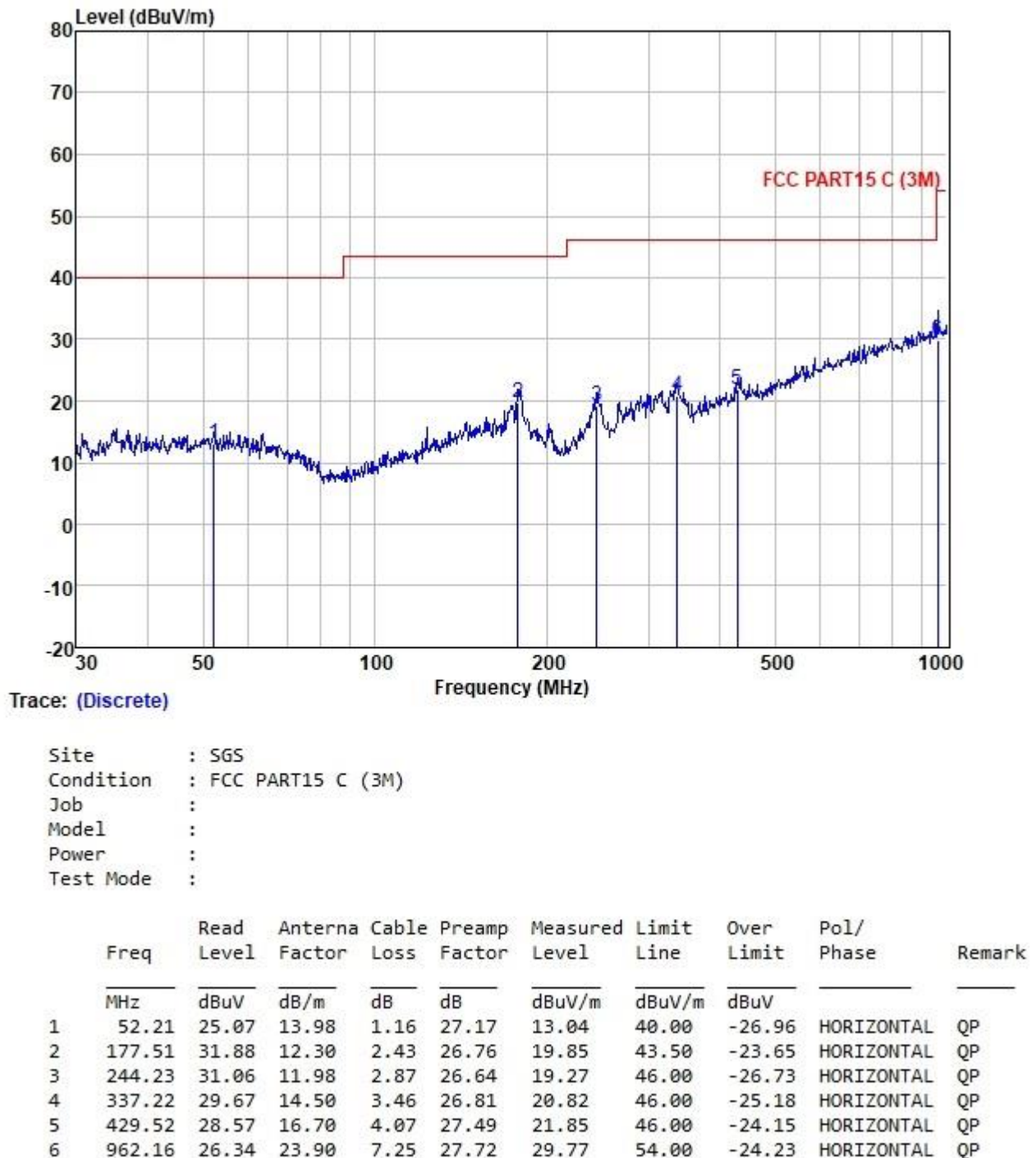
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11ac. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark2:

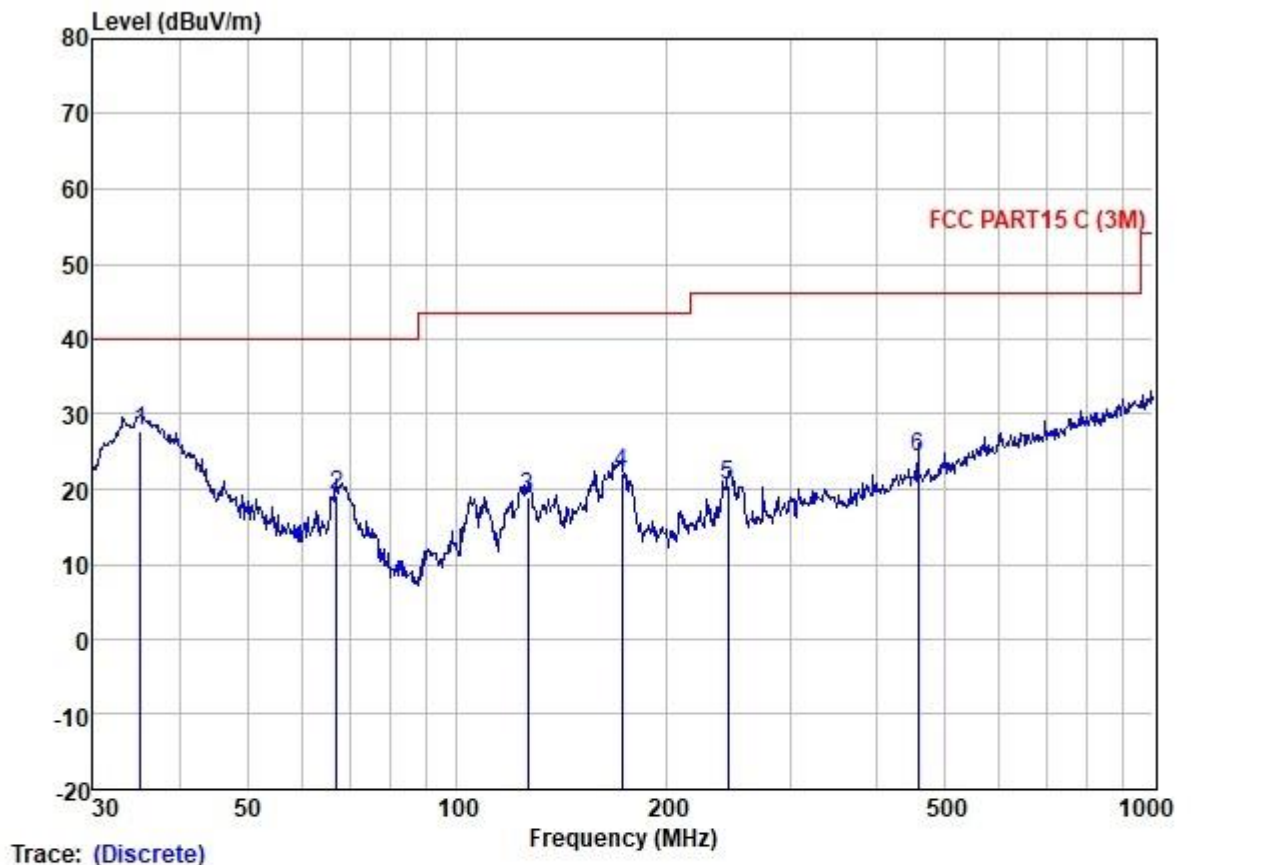
1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.
4. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed at band U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, find the worst case is band U-NII-1 802.11a mode lowest channel, only record the worst case.



Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Test Mode: 13; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Site : SGS
Condition : FCC PART15 C (3M)
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	35.13	40.96	12.92	1.07	27.18	27.77	40.00	-12.23	VERTICAL	QP
2	67.20	32.67	12.34	1.38	27.14	19.25	40.00	-20.75	VERTICAL	QP
3	126.33	32.45	11.63	1.93	27.01	19.00	43.50	-24.50	VERTICAL	QP
4	172.60	33.49	12.90	2.41	26.77	22.03	43.50	-21.47	VERTICAL	QP
5	245.09	32.24	12.00	2.87	26.64	20.47	46.00	-25.53	VERTICAL	QP
6	459.11	30.28	17.48	4.25	27.78	24.23	46.00	-21.77	VERTICAL	QP

7.3 Radiated Emissions (above 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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar



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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) 82075068 sgs.china@sgs.com

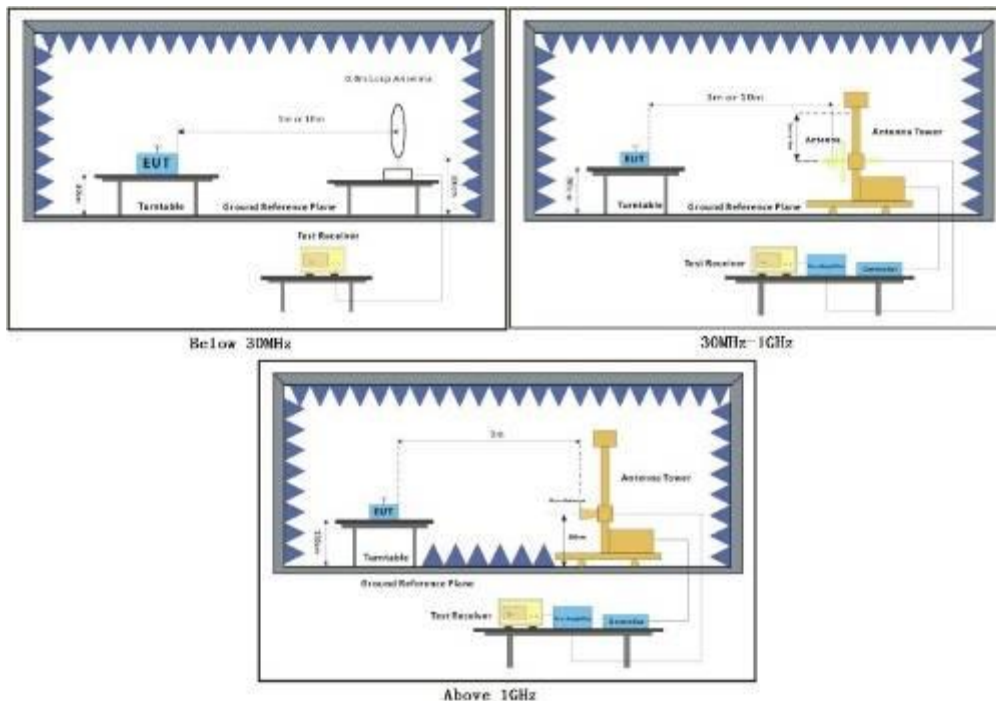
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	12	<p>TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>
Final test	13	<p>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.</p>
Pre-scan	14	<p>TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>
Final test	15	<p>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.</p>
Pre-scan	16	<p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>
Final test	17	<p>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.</p>



Pre-scan	18	<p>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> <p>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.</p>
Final test	19	<p>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.</p>

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

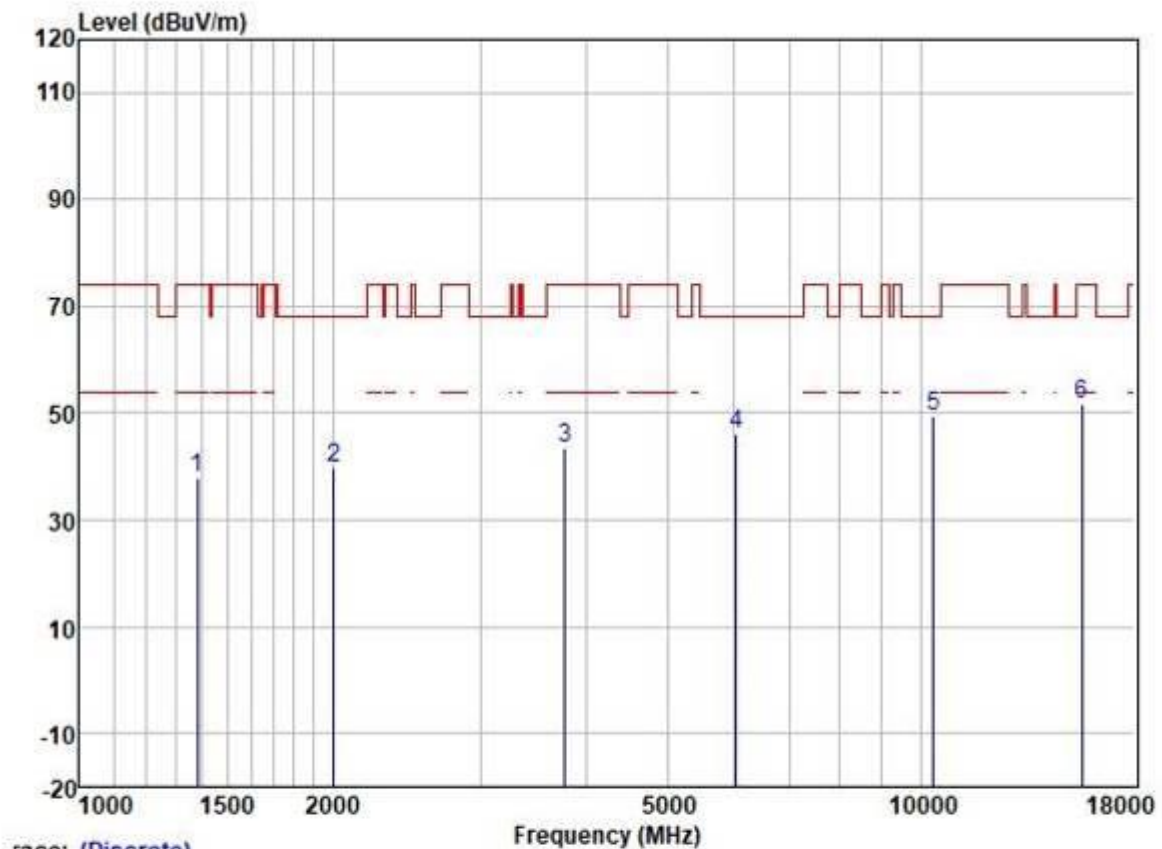
Remark1:

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 802.11ac. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark2:

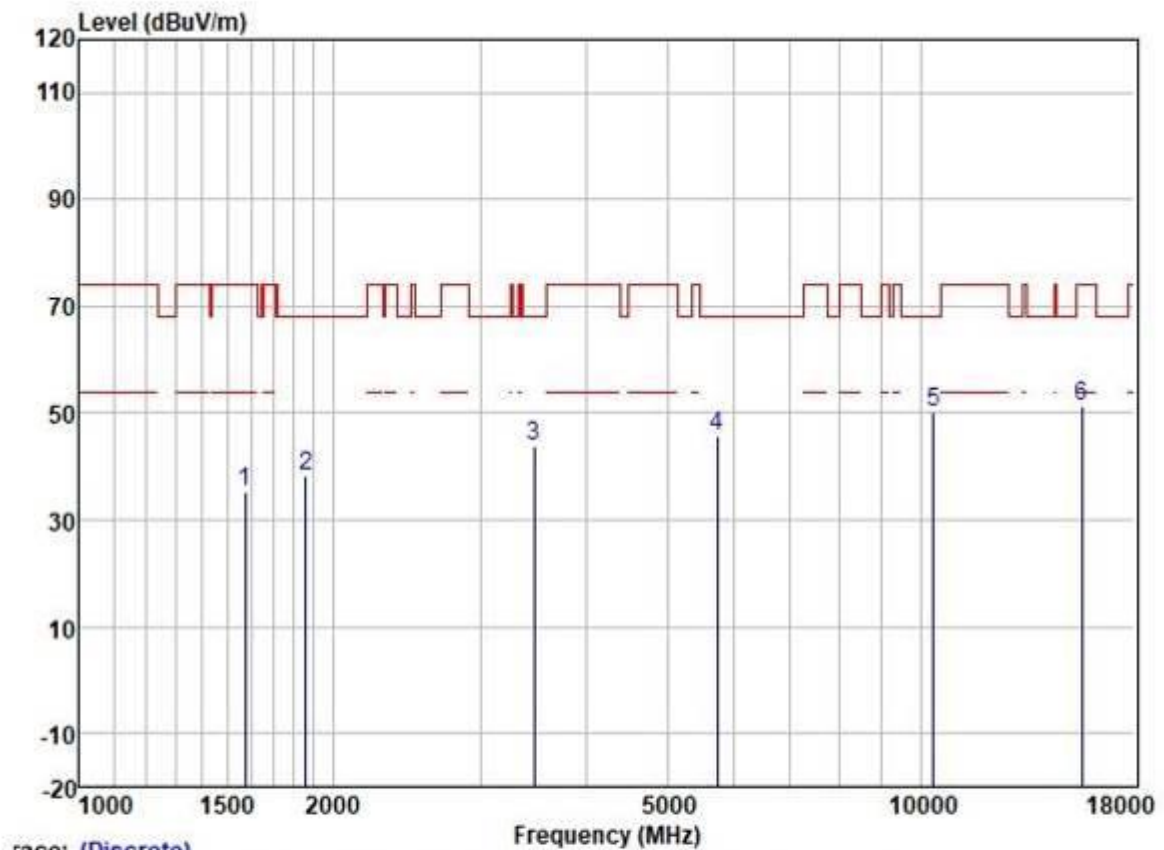
1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.
4. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed at band U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, find the worst case is band U-NII-1 802.11a mode lowest channel, only record the worst case.

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



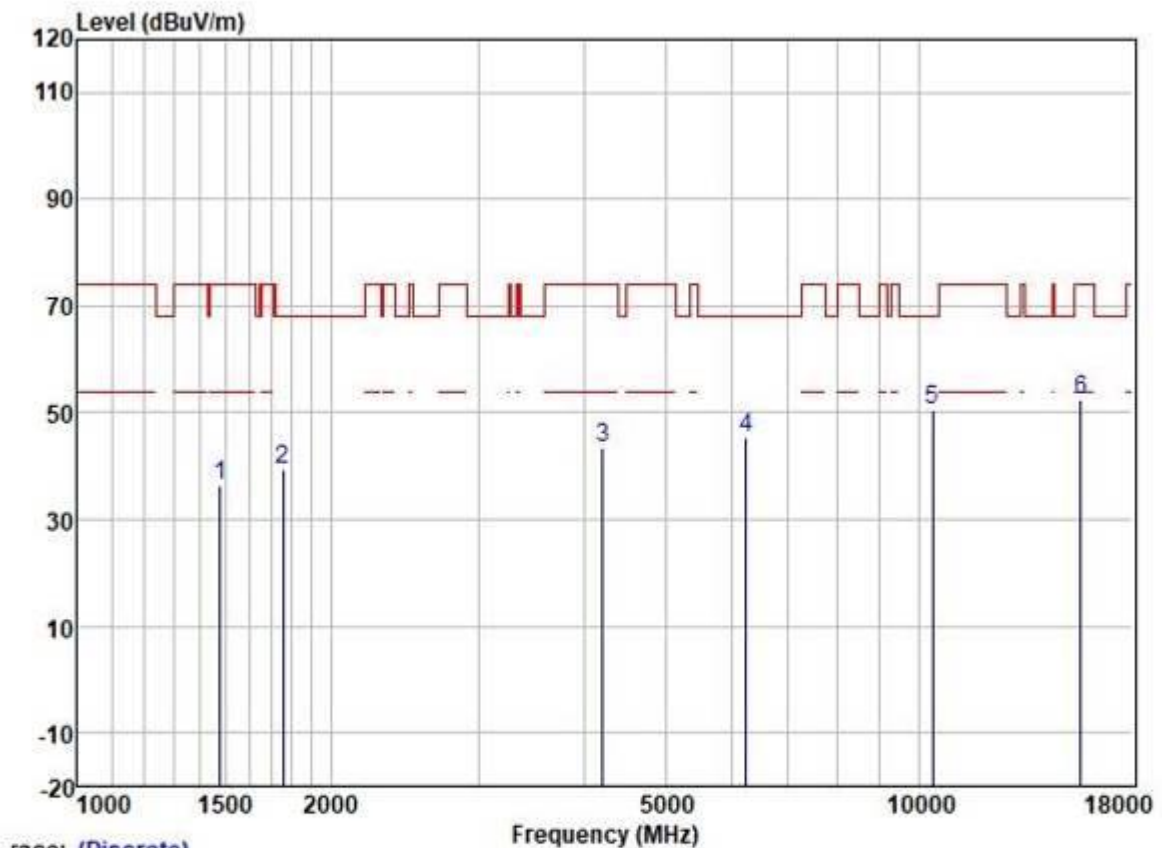
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1382.441	48.21	25.37	2.60	38.25	37.93	74.00	-36.07	HORIZONTAL	Peak
2	2008.708	48.22	26.11	3.10	37.70	39.73	68.20	-28.47	HORIZONTAL	Peak
3	3775.044	46.44	29.47	4.59	36.86	43.64	74.00	-30.36	HORIZONTAL	Peak
4	6033.198	44.26	32.48	6.18	36.90	46.02	68.20	-22.18	HORIZONTAL	Peak
5	10360.000	40.26	39.28	7.29	37.37	49.46	68.20	-18.74	HORIZONTAL	Peak
6	15540.000	38.13	39.05	9.88	35.39	51.67	74.00	-22.33	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



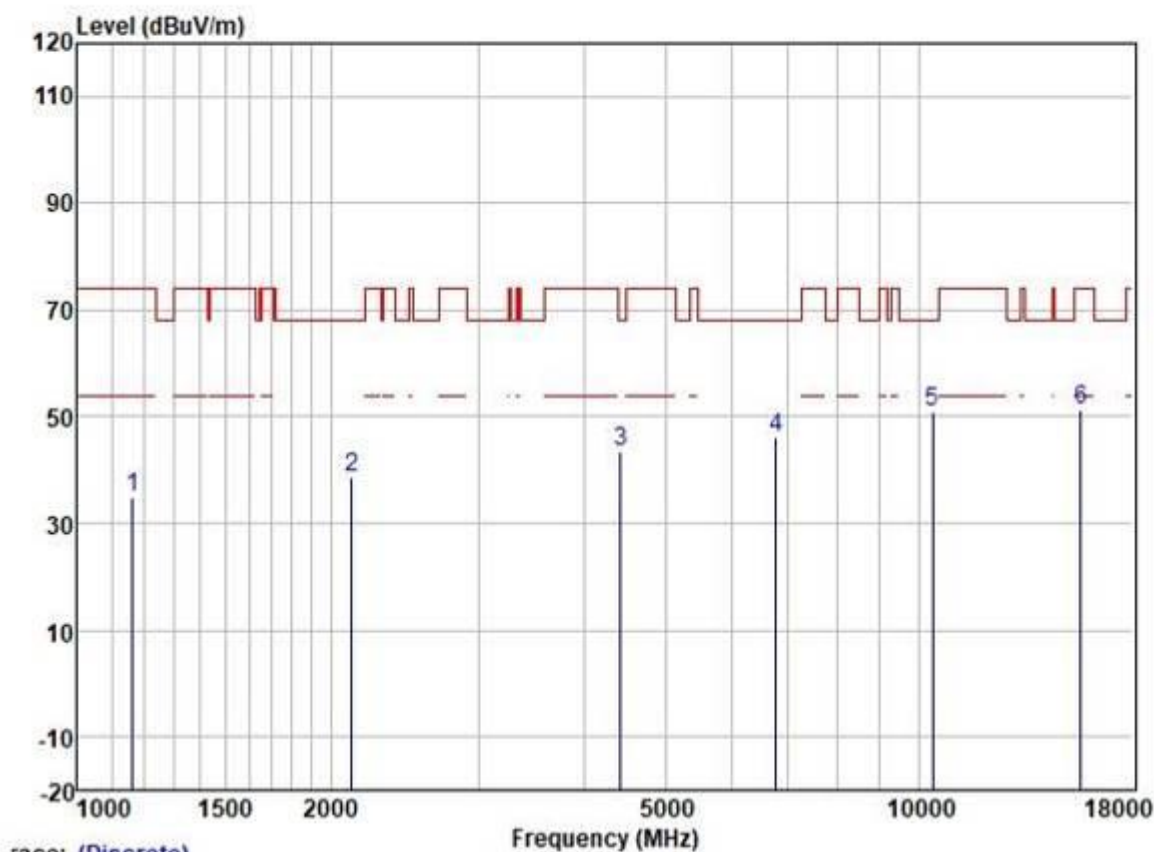
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	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1573.995	44.95	25.56	2.80	38.00	35.31	74.00	-38.69	VERTICAL Peak
2	1858.596	47.01	26.00	2.94	37.78	38.17	68.20	-30.03	VERTICAL Peak
3	3472.780	47.53	28.89	4.25	36.95	43.72	68.20	-24.48	VERTICAL Peak
4	5727.553	44.22	32.07	6.25	36.89	45.65	68.20	-22.55	VERTICAL Peak
5	10360.000	40.93	39.28	7.29	37.37	50.13	68.20	-18.07	VERTICAL Peak
6	15540.000	37.60	39.05	9.88	35.39	51.14	74.00	-22.86	VERTICAL Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



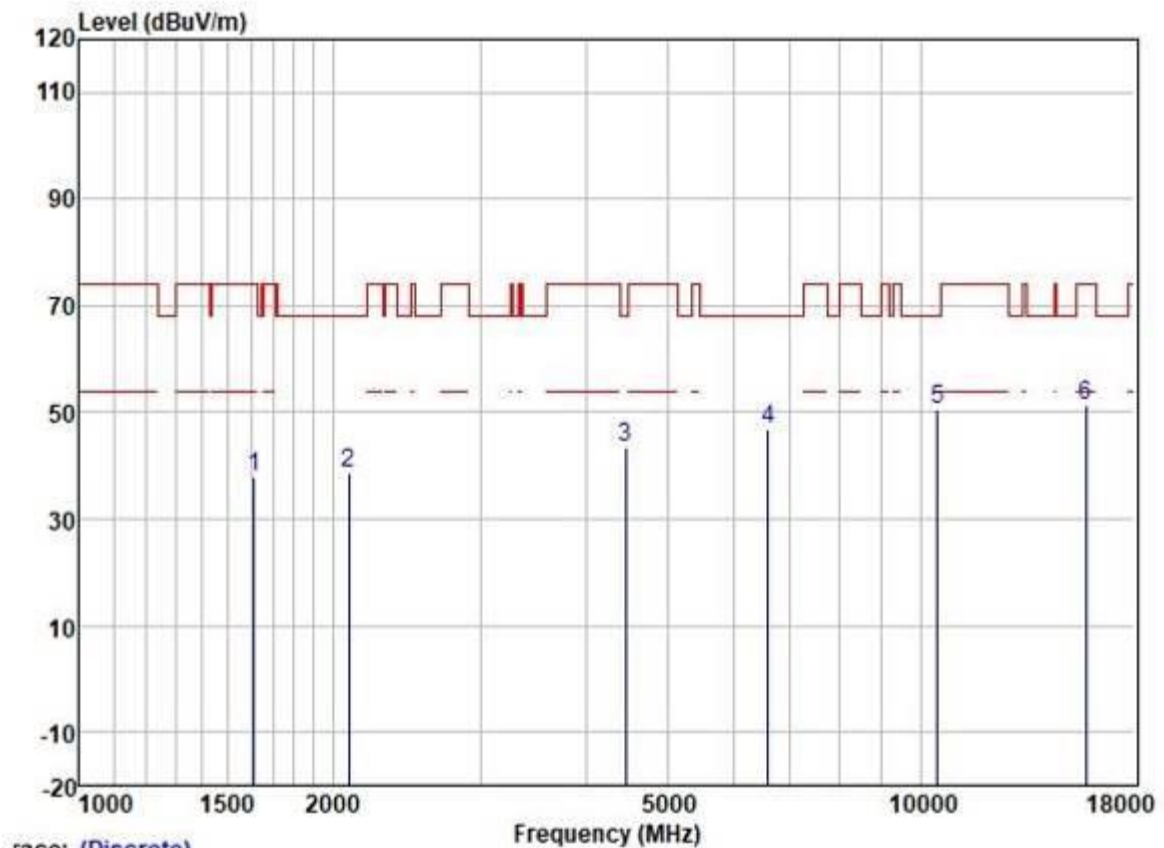
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1480.503	46.43	25.48	2.77	38.13	36.55	74.00	-37.45	HORIZONTAL	Peak
2	1754.693	48.42	25.87	2.91	37.85	39.35	68.20	-28.85	HORIZONTAL	Peak
3	4214.788	45.43	30.22	4.60	36.81	43.44	74.00	-30.56	HORIZONTAL	Peak
4	6232.494	43.27	33.11	6.04	36.94	45.48	68.20	-22.72	HORIZONTAL	Peak
5	10400.000	41.30	39.33	7.32	37.36	50.59	68.20	-17.61	HORIZONTAL	Peak
6	15600.000	38.94	38.99	9.88	35.39	52.42	74.00	-21.58	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



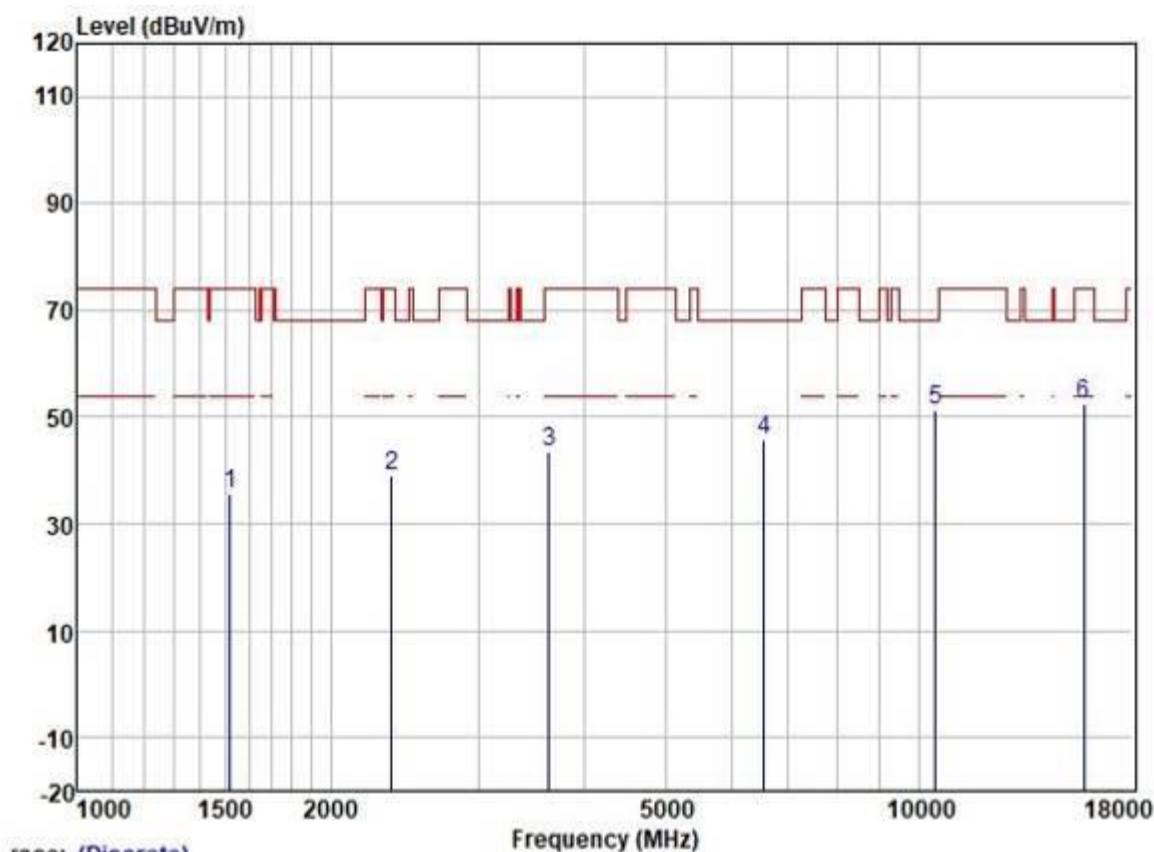
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1162.933	46.28	24.53	2.40	38.40	34.81	74.00	-39.19	VERTICAL	Peak
2	2121.955	46.89	26.34	3.17	37.67	38.73	68.20	-29.47	VERTICAL	Peak
3	4431.312	44.60	30.72	4.78	36.81	43.29	68.20	-24.91	VERTICAL	Peak
4	6763.780	42.88	34.56	5.82	37.11	46.15	68.20	-22.05	VERTICAL	Peak
5	10400.000	41.70	39.33	7.32	37.36	50.99	68.20	-17.21	VERTICAL	Peak
6	15600.000	37.89	38.99	9.88	35.39	51.37	74.00	-22.63	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



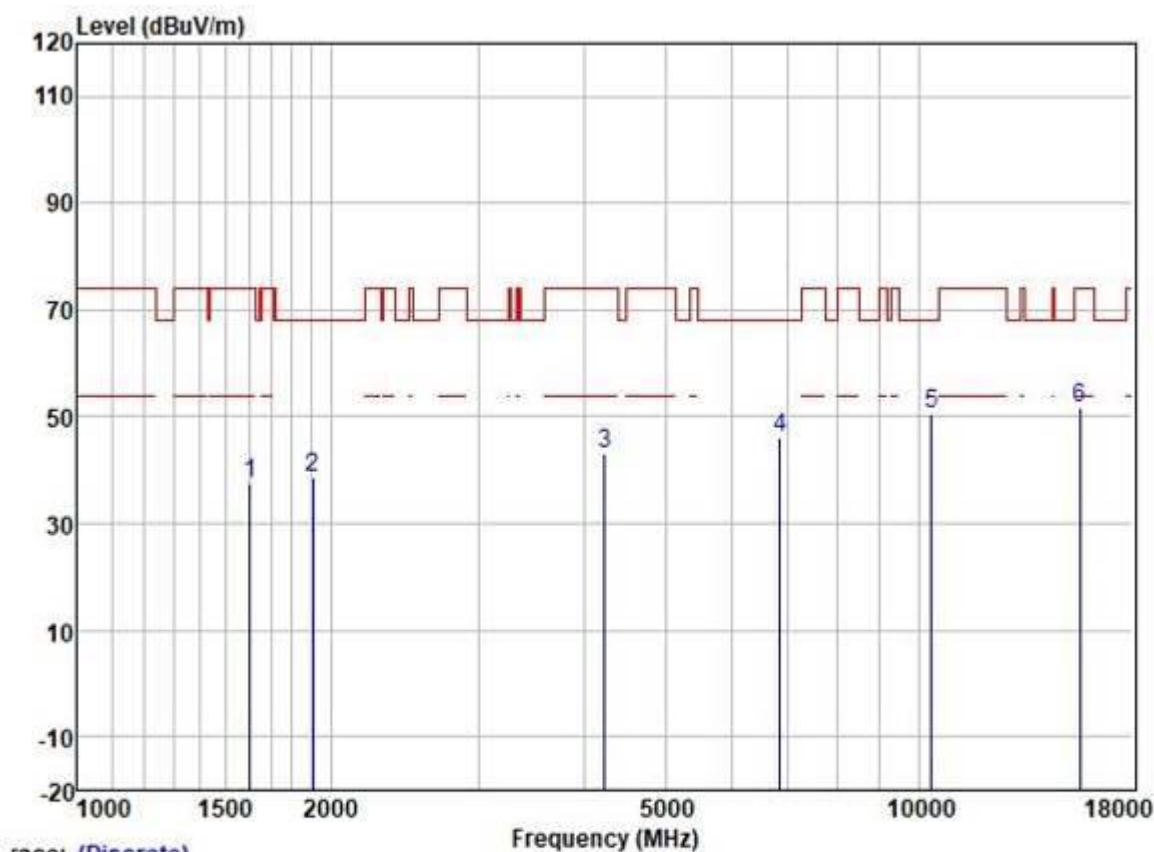
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1613.532	47.60	25.60	2.80	37.95	38.05	74.00	-35.95	HORIZONTAL Peak
2	2092.642	46.79	26.27	3.15	37.68	38.53	68.20	-29.67	HORIZONTAL Peak
3	4467.823	44.66	30.77	4.93	36.81	43.55	68.20	-24.65	HORIZONTAL Peak
4	6582.034	43.99	34.13	5.84	37.03	46.93	68.20	-21.27	HORIZONTAL Peak
5	10480.000	40.98	39.46	7.40	37.36	50.48	68.20	-17.72	HORIZONTAL Peak
6	15720.000	38.08	38.78	9.87	35.39	51.34	74.00	-22.66	HORIZONTAL Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



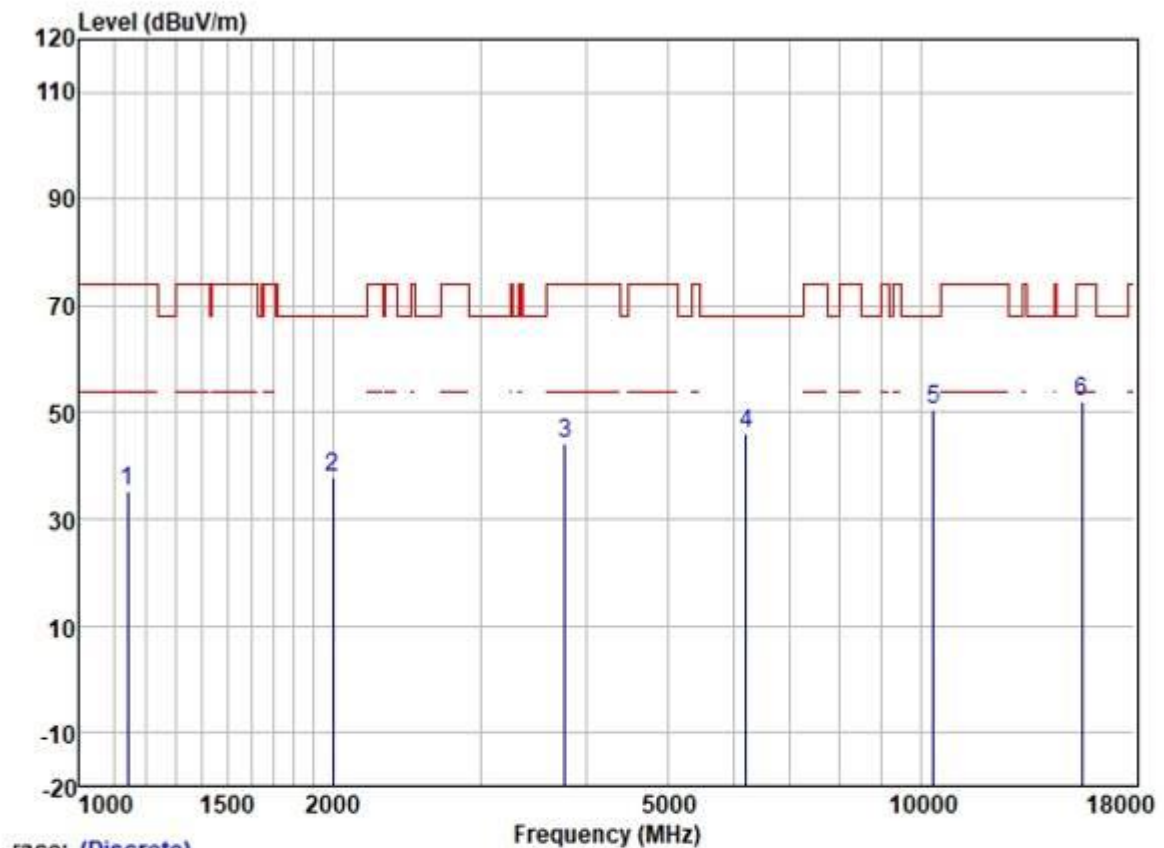
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1521.047	45.43	25.51	2.80	38.07	35.67	74.00	-38.33	VERTICAL	Peak
2	2363.967	45.89	27.28	3.43	37.60	39.00	74.00	-35.00	VERTICAL	Peak
3	3632.244	46.93	29.09	4.51	36.90	43.63	74.00	-30.37	VERTICAL	Peak
4	6552.665	42.84	34.06	5.84	37.03	45.71	68.20	-22.49	VERTICAL	Peak
5	10480.000	41.74	39.46	7.40	37.36	51.24	68.20	-16.96	VERTICAL	Peak
6	15720.000	39.13	38.78	9.87	35.39	52.39	74.00	-21.61	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



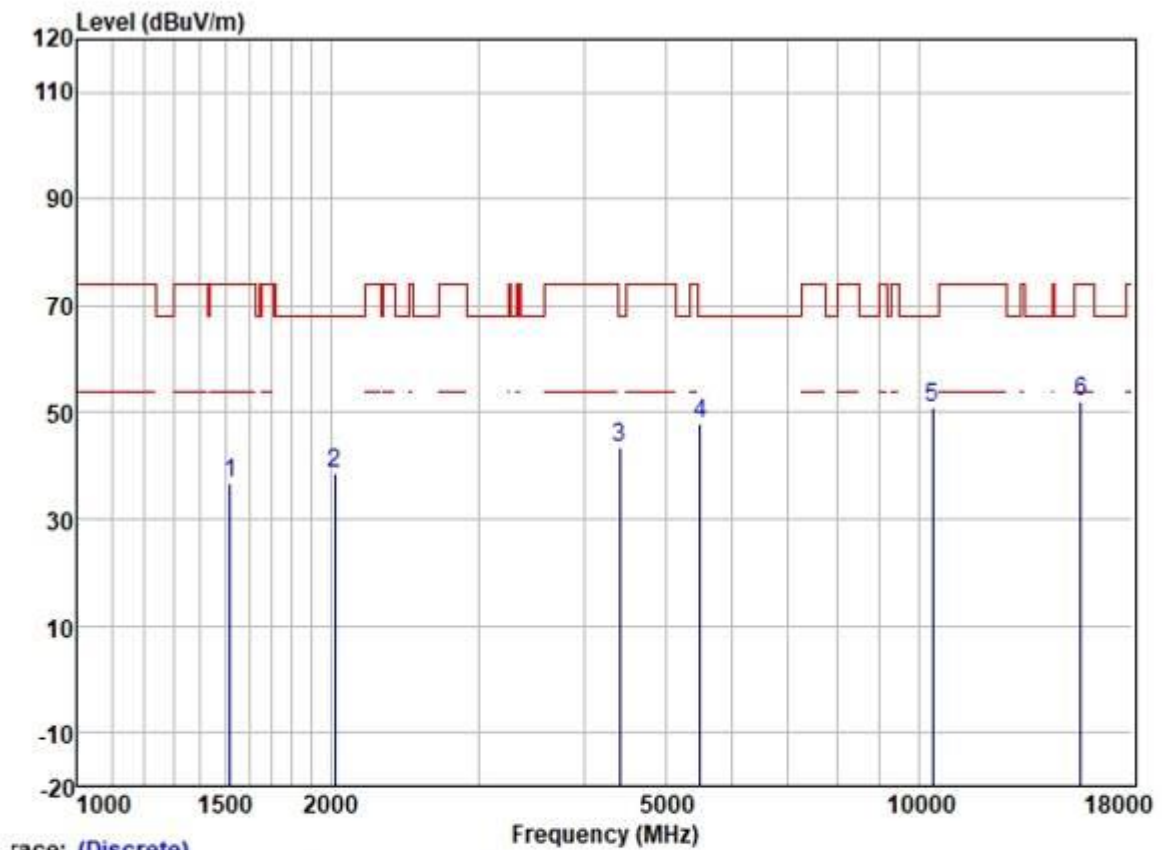
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1605.450	46.91	25.59	2.80	37.98	37.32	74.00	-36.68	HORIZONTAL	Peak
2	1905.076	47.52	26.04	2.91	37.75	38.72	68.20	-29.48	HORIZONTAL	Peak
3	4238.429	44.97	30.30	4.62	36.81	43.08	74.00	-30.92	HORIZONTAL	Peak
4	6841.339	42.61	34.74	5.82	37.15	46.02	68.20	-22.18	HORIZONTAL	Peak
5	10360.000	41.34	39.28	7.29	37.37	50.54	68.20	-17.66	HORIZONTAL	Peak
6	15540.000	38.11	39.05	9.88	35.39	51.65	74.00	-22.35	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



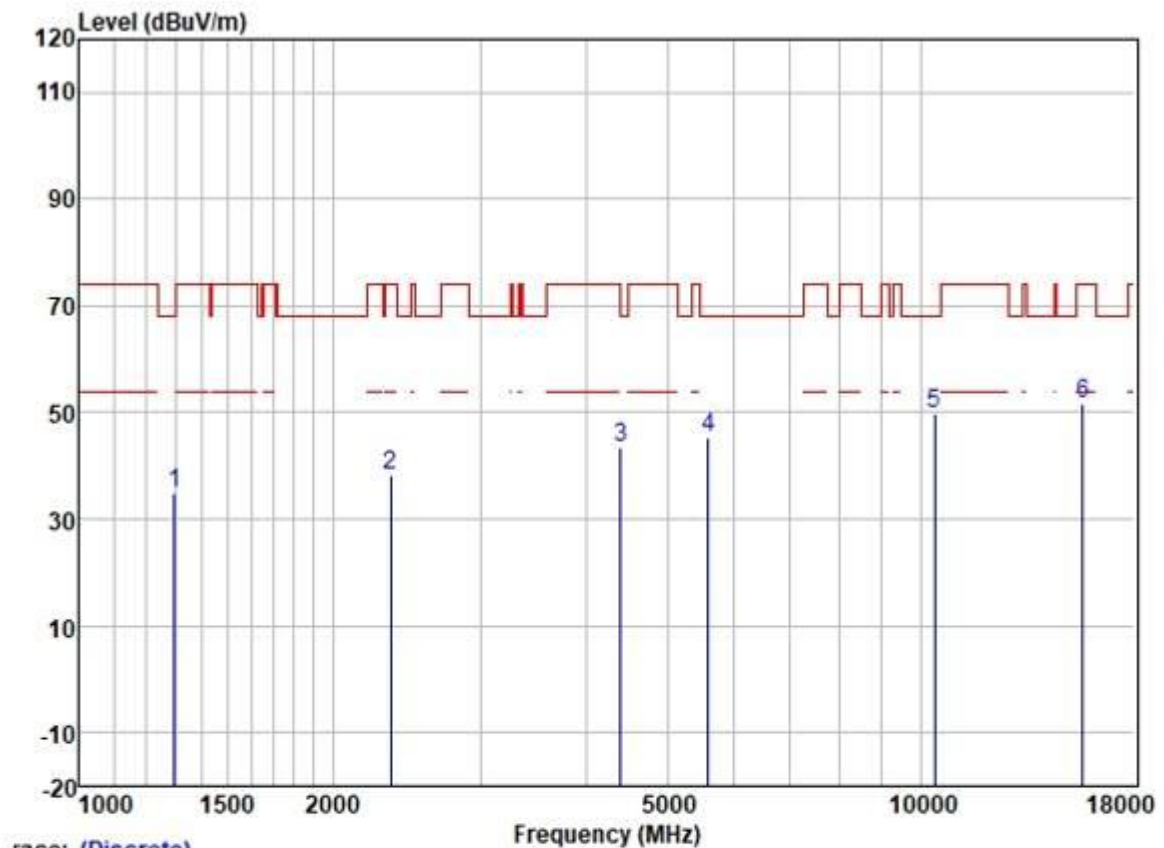
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1141.941	46.85	24.47	2.30	38.42	35.20	74.00	-38.80	VERTICAL	Peak
2	2003.954	46.45	26.10	3.10	37.70	37.95	68.20	-30.25	VERTICAL	Peak
3	3773.882	46.89	29.45	4.59	36.86	44.07	74.00	-29.93	VERTICAL	Peak
4	6199.057	43.96	32.96	6.07	36.94	46.05	68.20	-22.15	VERTICAL	Peak
5	10360.000	41.50	39.28	7.29	37.37	50.70	68.20	-17.50	VERTICAL	Peak
6	15540.000	38.45	39.05	9.88	35.39	51.99	74.00	-22.01	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



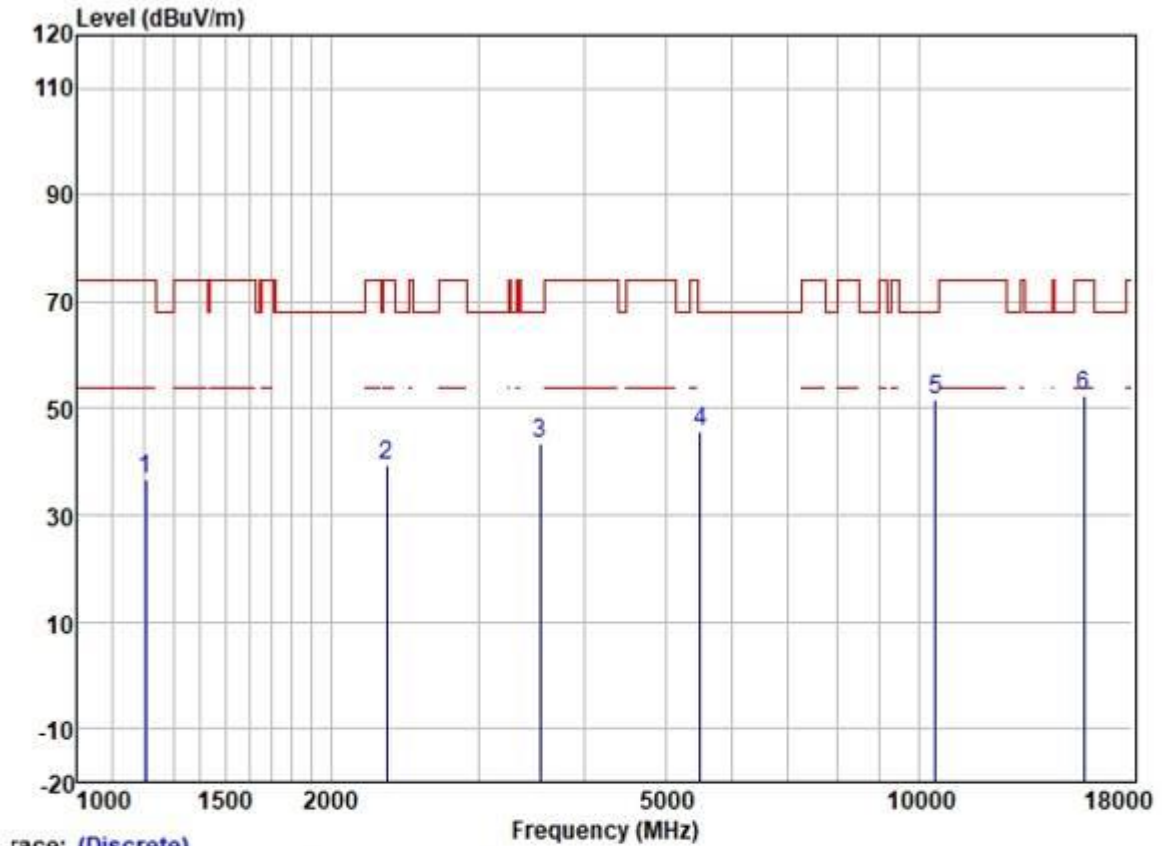
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1520.135	46.41	25.51	2.80	38.07	36.65	74.00	-37.35	HORIZONTAL	Peak
2	2025.137	47.12	26.14	3.11	37.69	38.68	68.20	-29.52	HORIZONTAL	Peak
3	4416.646	44.68	30.70	4.74	36.81	43.31	68.20	-24.89	HORIZONTAL	Peak
4	5505.786	46.52	31.80	6.40	36.88	47.84	68.20	-20.36	HORIZONTAL	Peak
5	10400.000	41.59	39.33	7.32	37.36	50.88	68.20	-17.32	HORIZONTAL	Peak
6	15600.000	38.53	38.99	9.88	35.39	52.01	74.00	-21.99	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



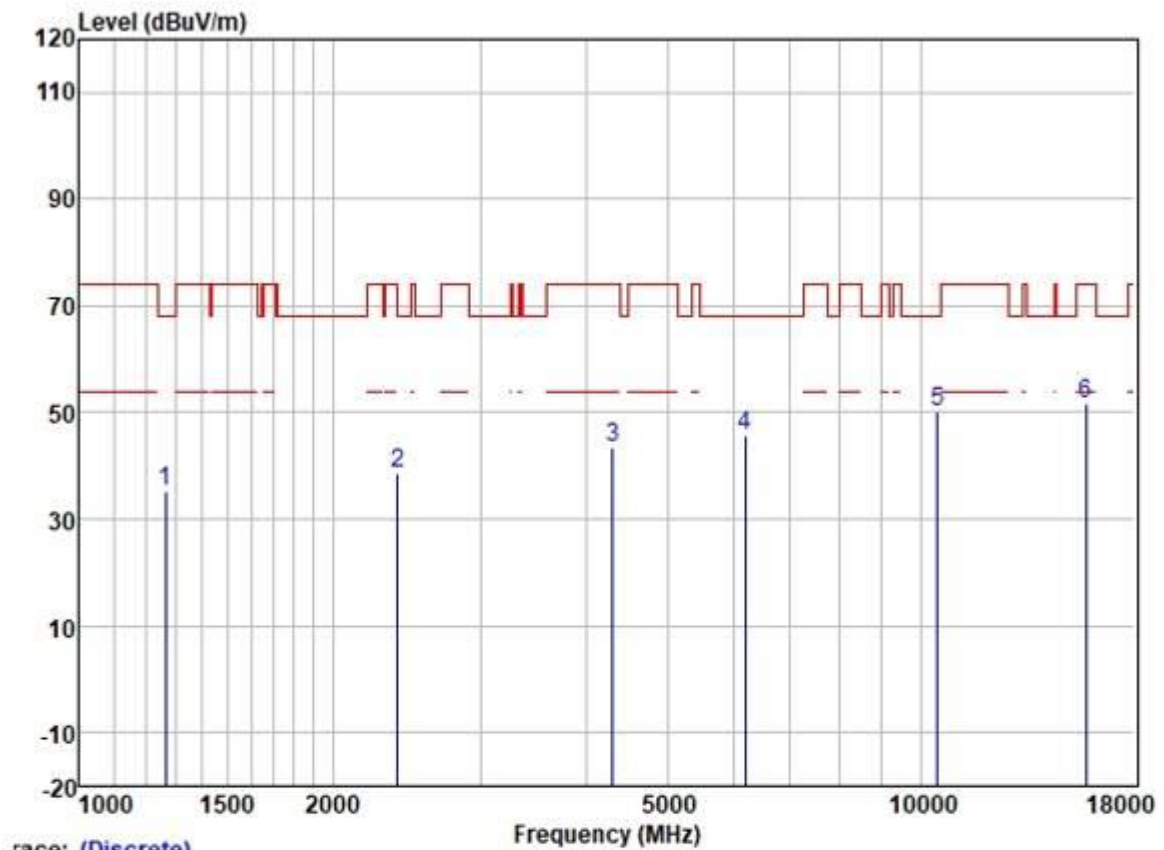
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1296.113	45.36	25.19	2.58	38.31	34.82	68.20	-33.38	VERTICAL	Peak
2	2342.498	45.21	27.24	3.38	37.61	38.22	74.00	-35.78	VERTICAL	Peak
3	4395.902	44.95	30.66	4.70	36.81	43.50	74.00	-30.50	VERTICAL	Peak
4	5595.726	44.07	31.89	6.30	36.89	45.37	68.20	-22.83	VERTICAL	Peak
5	10400.000	40.70	39.33	7.32	37.36	49.99	68.20	-18.21	VERTICAL	Peak
6	15600.000	38.27	38.99	9.88	35.39	51.75	74.00	-22.25	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



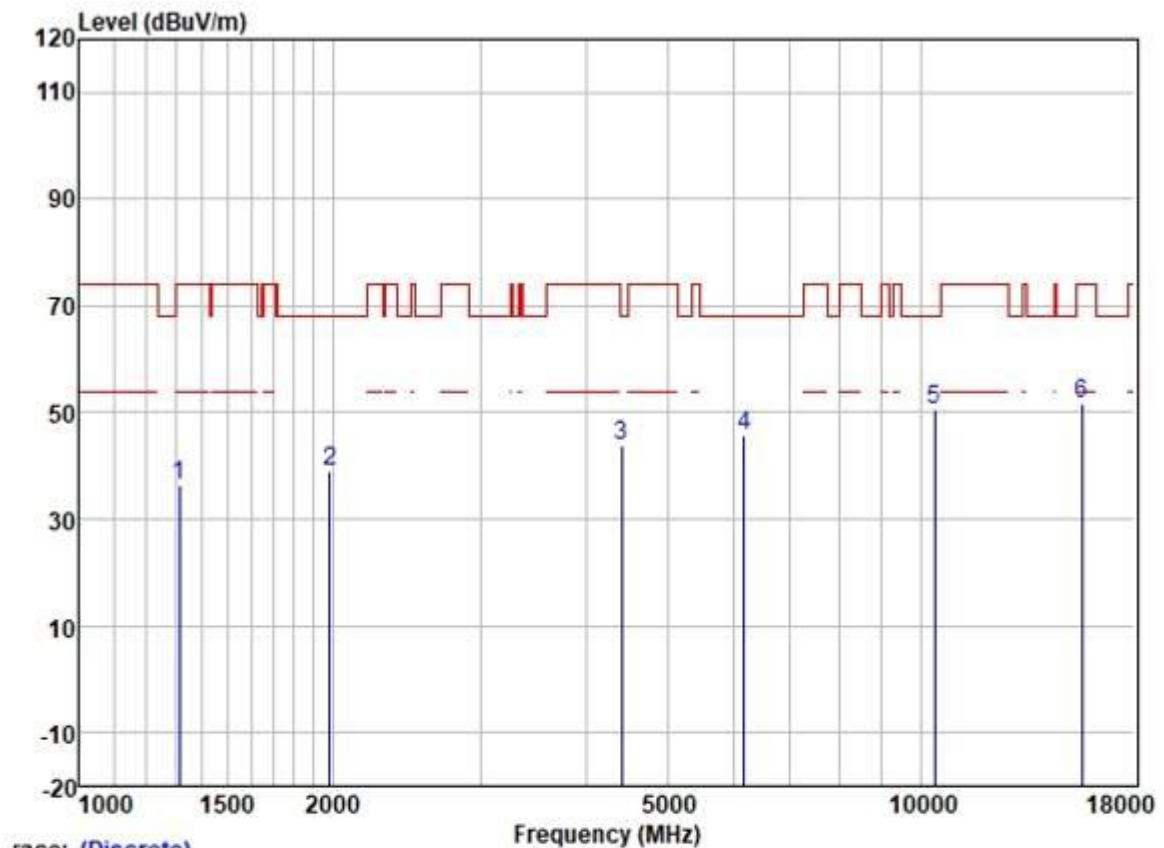
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1205.432	48.07	24.72	2.33	38.39	36.73	74.00	-37.27	HORIZONTAL Peak
2	2329.370	46.44	27.20	3.36	37.62	39.38	74.00	-34.62	HORIZONTAL Peak
3	3548.466	46.93	28.96	4.42	36.92	43.39	68.20	-24.81	HORIZONTAL Peak
4	5502.812	44.42	31.80	6.40	36.88	45.74	68.20	-22.46	HORIZONTAL Peak
5	10480.000	42.12	39.46	7.40	37.36	51.62	68.20	-16.58	HORIZONTAL Peak
6	15720.000	39.29	38.78	9.87	35.39	52.55	74.00	-21.45	HORIZONTAL Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



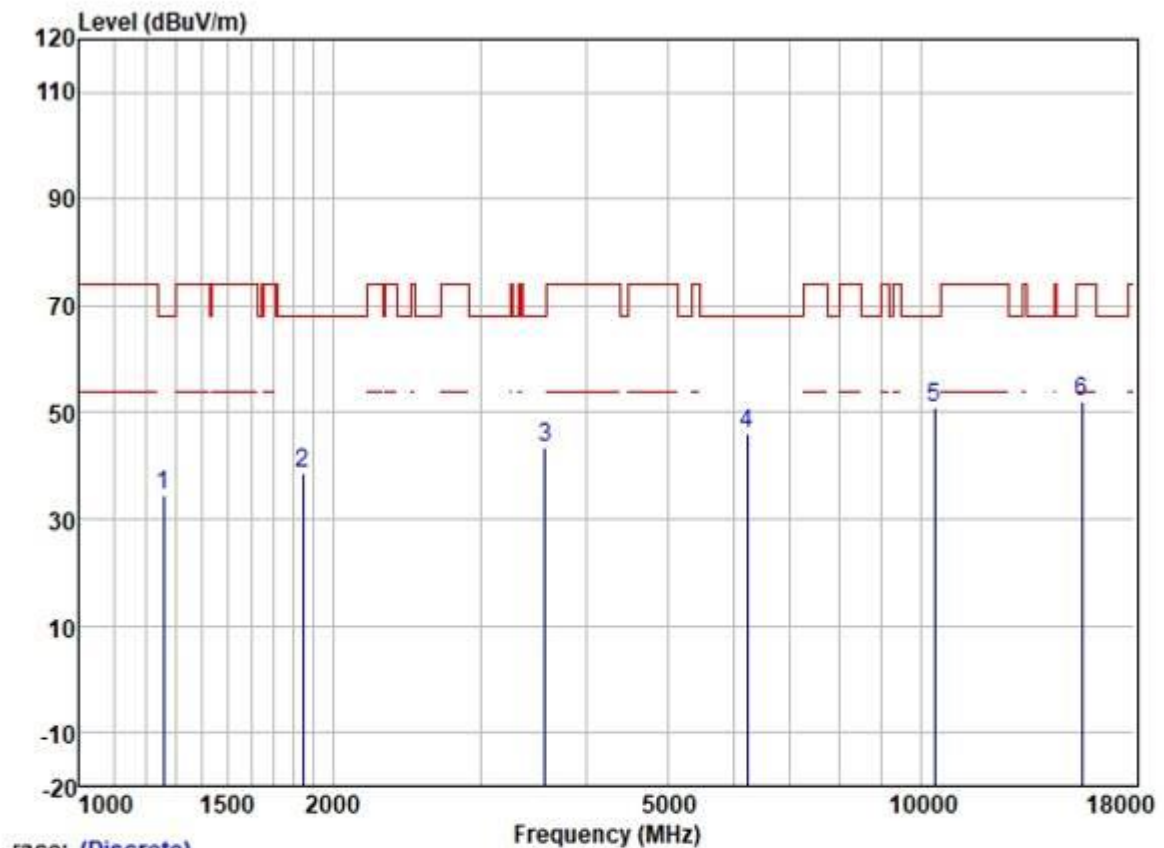
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.479	46.02	25.10	2.44	38.33	35.23	68.20	-32.97	VERTICAL	Peak
2	2387.084	45.41	27.33	3.48	37.60	38.62	74.00	-35.38	VERTICAL	Peak
3	4302.817	45.09	30.48	4.65	36.81	43.41	74.00	-30.59	VERTICAL	Peak
4	6194.762	43.70	32.96	6.07	36.94	45.79	68.20	-22.41	VERTICAL	Peak
5	10480.000	40.69	39.46	7.40	37.36	50.19	68.20	-18.01	VERTICAL	Peak
6	15720.000	38.56	38.78	9.87	35.39	51.82	74.00	-22.18	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



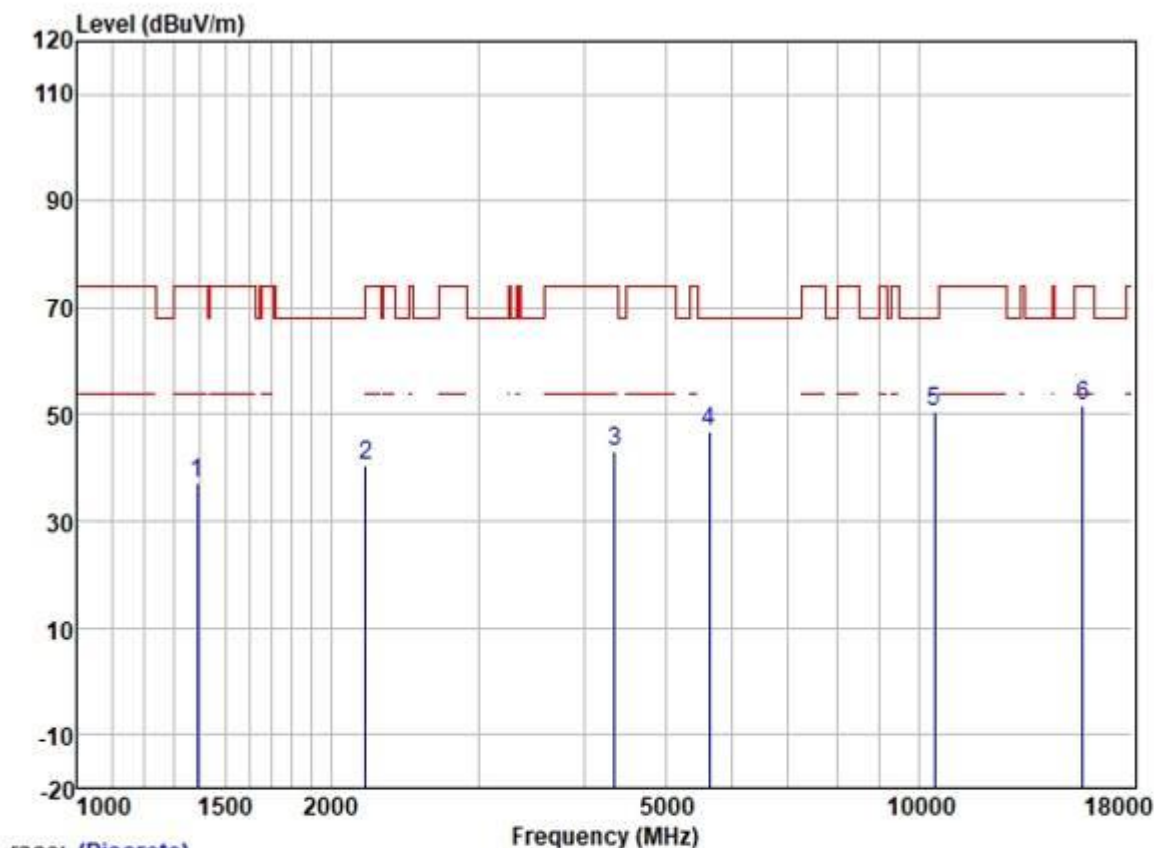
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1315.267	46.75	25.24	2.60	38.29	36.30	74.00	-37.70	HORIZONTAL Peak
2	1984.113	47.48	26.09	3.07	37.71	38.93	68.20	-29.27	HORIZONTAL Peak
3	4412.299	45.22	30.70	4.74	36.81	43.85	68.20	-24.35	HORIZONTAL Peak
4	6170.528	43.77	32.89	6.09	36.93	45.82	68.20	-22.38	HORIZONTAL Peak
5	10380.000	41.17	39.33	7.32	37.37	50.45	68.20	-17.75	HORIZONTAL Peak
6	15570.000	38.30	38.99	9.88	35.39	51.78	74.00	-22.22	HORIZONTAL Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1258.705	45.50	25.07	2.40	38.35	34.62	68.20	-33.58	VERTICAL	Peak
2	1845.704	47.59	25.99	2.95	37.78	38.75	68.20	-29.45	VERTICAL	Peak
3	3580.735	46.74	29.00	4.47	36.92	43.29	68.20	-24.91	VERTICAL	Peak
4	6216.284	43.91	33.03	6.06	36.94	46.06	68.20	-22.14	VERTICAL	Peak
5	10380.000	41.61	39.33	7.32	37.37	50.89	68.20	-17.31	VERTICAL	Peak
6	15570.000	38.64	38.99	9.88	35.39	52.12	74.00	-21.88	VERTICAL	Peak

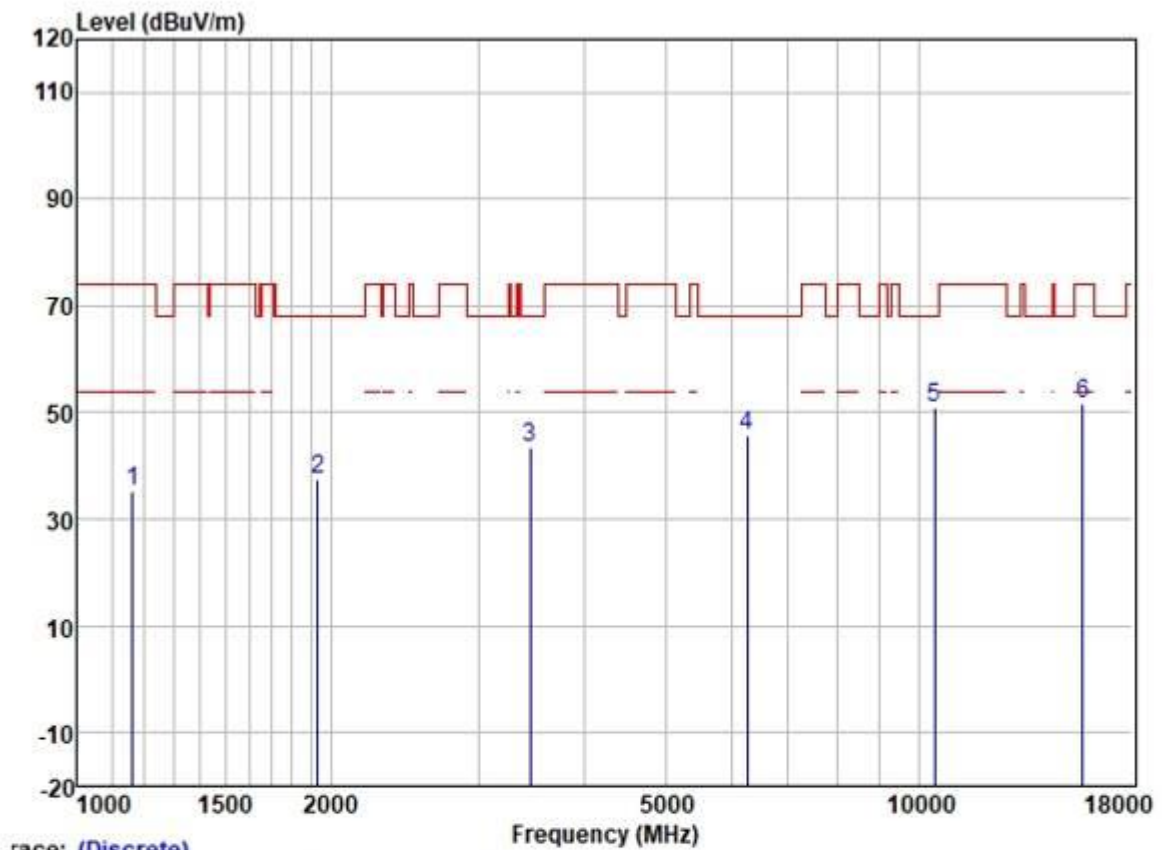
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

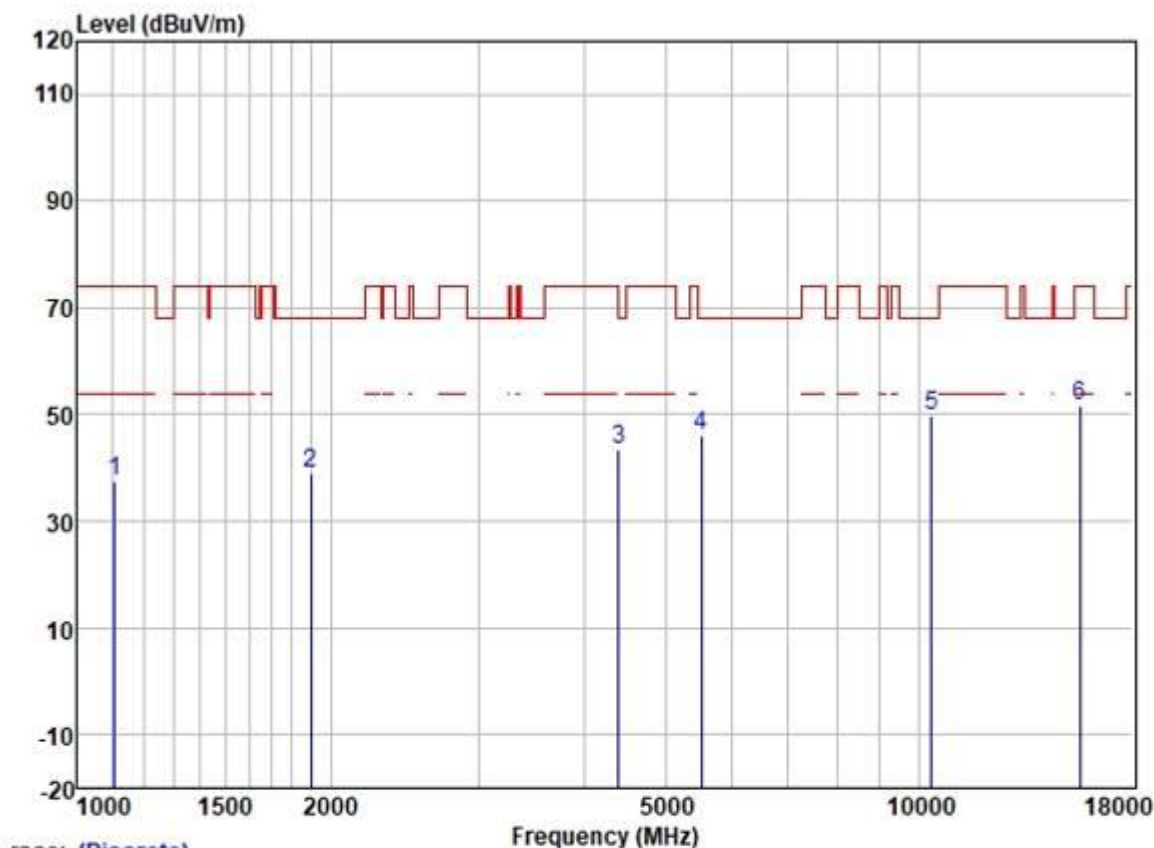
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1387.852	47.51	25.37	2.60	38.22	37.26	74.00	-36.74	HORIZONTAL	Peak
2	2203.010	48.20	26.62	3.20	37.65	40.37	74.00	-33.63	HORIZONTAL	Peak
3	4349.439	44.64	30.59	4.68	36.81	43.10	74.00	-30.90	HORIZONTAL	Peak
4	5648.283	45.26	31.95	6.35	36.89	46.67	68.20	-21.53	HORIZONTAL	Peak
5	10460.000	41.00	39.42	7.37	37.36	50.43	68.20	-17.77	HORIZONTAL	Peak
6	15690.000	38.33	38.86	9.87	35.39	51.67	74.00	-22.33	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



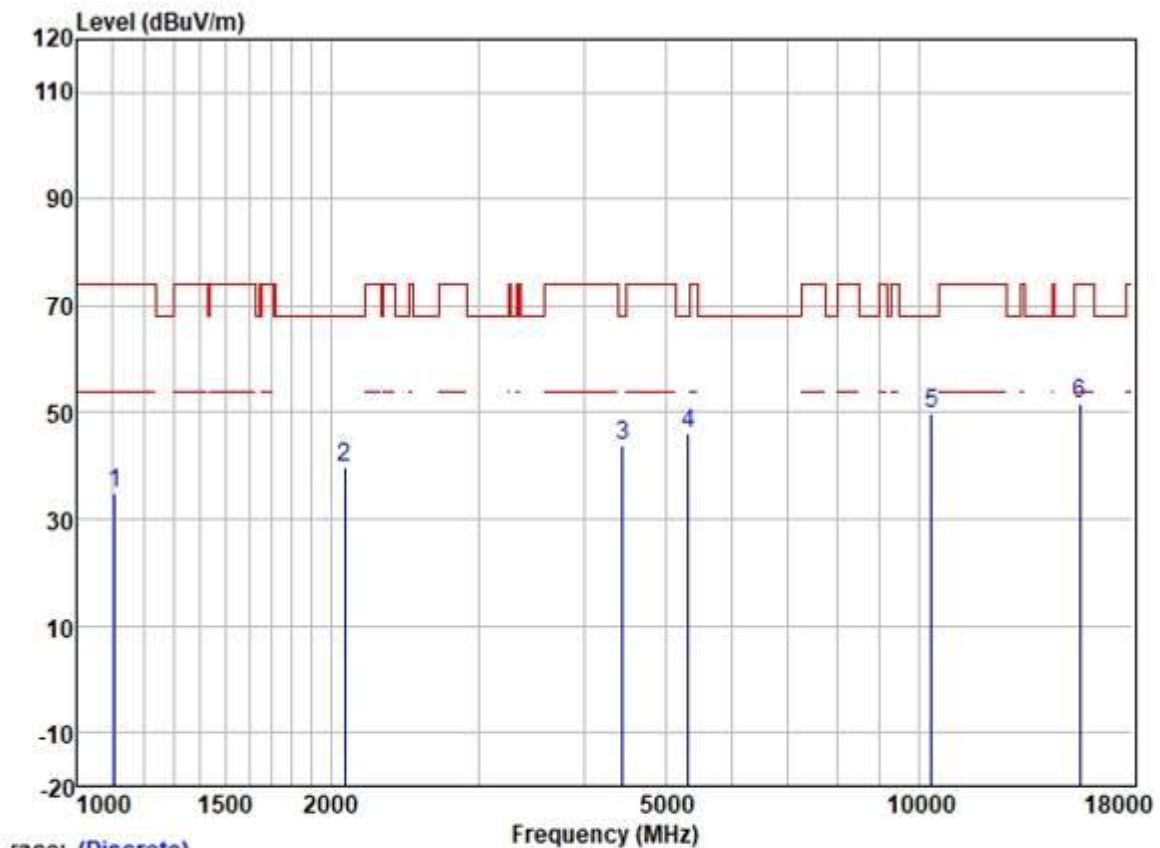
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1162.016	46.71	24.53	2.40	38.42	35.22	74.00	-38.78	VERTICAL	Peak
2	1930.498	46.26	26.06	2.96	37.74	37.54	68.20	-30.66	VERTICAL	Peak
3	3451.983	47.28	28.88	4.20	36.96	43.40	68.20	-24.80	VERTICAL	Peak
4	6260.499	43.37	33.29	6.00	36.95	45.71	68.20	-22.49	VERTICAL	Peak
5	10460.000	41.33	39.42	7.37	37.36	50.76	68.20	-17.44	VERTICAL	Peak
6	15690.000	38.52	38.86	9.87	35.39	51.86	74.00	-22.14	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



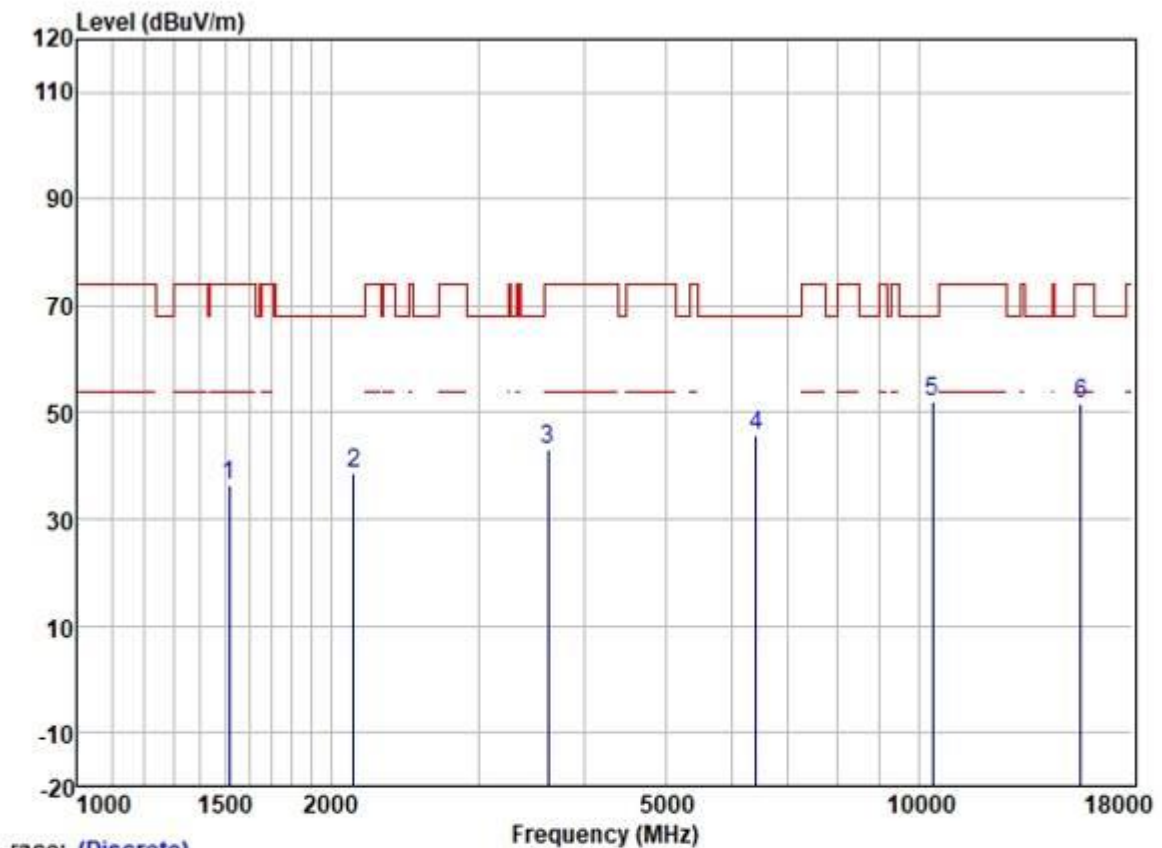
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1106.113	49.36	24.38	2.28	38.45	37.57	74.00	-36.43	HORIZONTAL	Peak
2	1892.804	47.93	26.04	2.90	37.75	39.12	68.20	-29.08	HORIZONTAL	Peak
3	4405.881	44.81	30.68	4.70	36.81	43.38	68.20	-24.82	HORIZONTAL	Peak
4	5525.421	44.86	31.81	6.38	36.89	46.16	68.20	-22.04	HORIZONTAL	Peak
5	10360.000	40.47	39.28	7.29	37.37	49.67	68.20	-18.53	HORIZONTAL	Peak
6	15540.000	38.22	39.05	9.88	35.39	51.76	74.00	-22.24	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



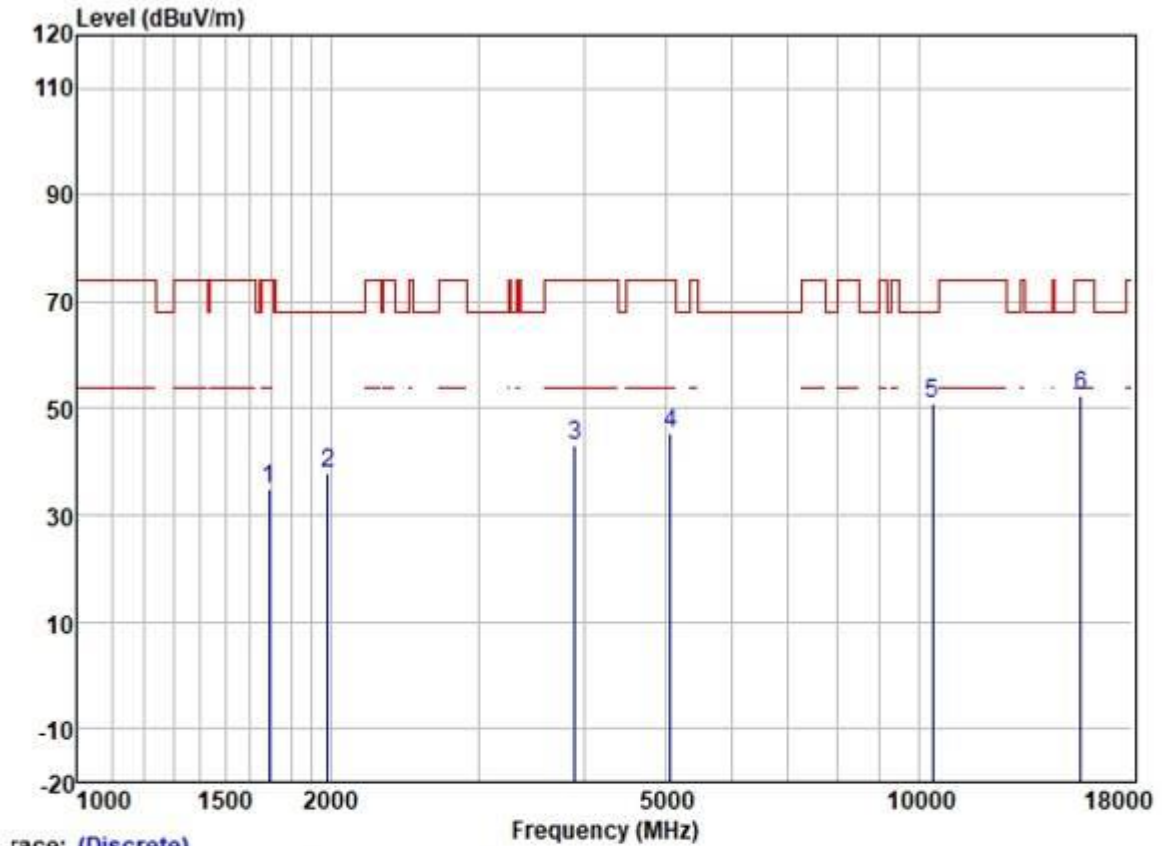
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1107.975	46.71	24.38	2.28	38.45	34.92	74.00	-39.08	VERTICAL	Peak
2	2078.848	48.00	26.24	3.14	37.68	39.70	68.20	-28.50	VERTICAL	Peak
3	4450.137	44.91	30.75	4.88	36.81	43.73	68.20	-24.47	VERTICAL	Peak
4	5321.667	45.18	31.77	6.08	36.88	46.15	68.20	-22.05	VERTICAL	Peak
5	10360.000	40.47	39.28	7.29	37.37	49.67	68.20	-18.53	VERTICAL	Peak
6	15540.000	38.21	39.05	9.88	35.39	51.75	74.00	-22.25	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; 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	1514.288	46.01	25.51	2.80	38.07	36.25	74.00	-37.75	HORIZONTAL	Peak
2	2129.134	46.91	26.36	3.17	37.67	38.77	68.20	-29.43	HORIZONTAL	Peak
3	3625.369	46.38	29.09	4.51	36.90	43.08	74.00	-30.92	HORIZONTAL	Peak
4	6421.571	42.88	33.79	5.89	36.99	45.57	68.20	-22.63	HORIZONTAL	Peak
5	10400.000	42.72	39.33	7.32	37.36	52.01	68.20	-16.19	HORIZONTAL	Peak
6	15600.000	38.13	38.99	9.88	35.39	51.61	74.00	-22.39	HORIZONTAL	Peak

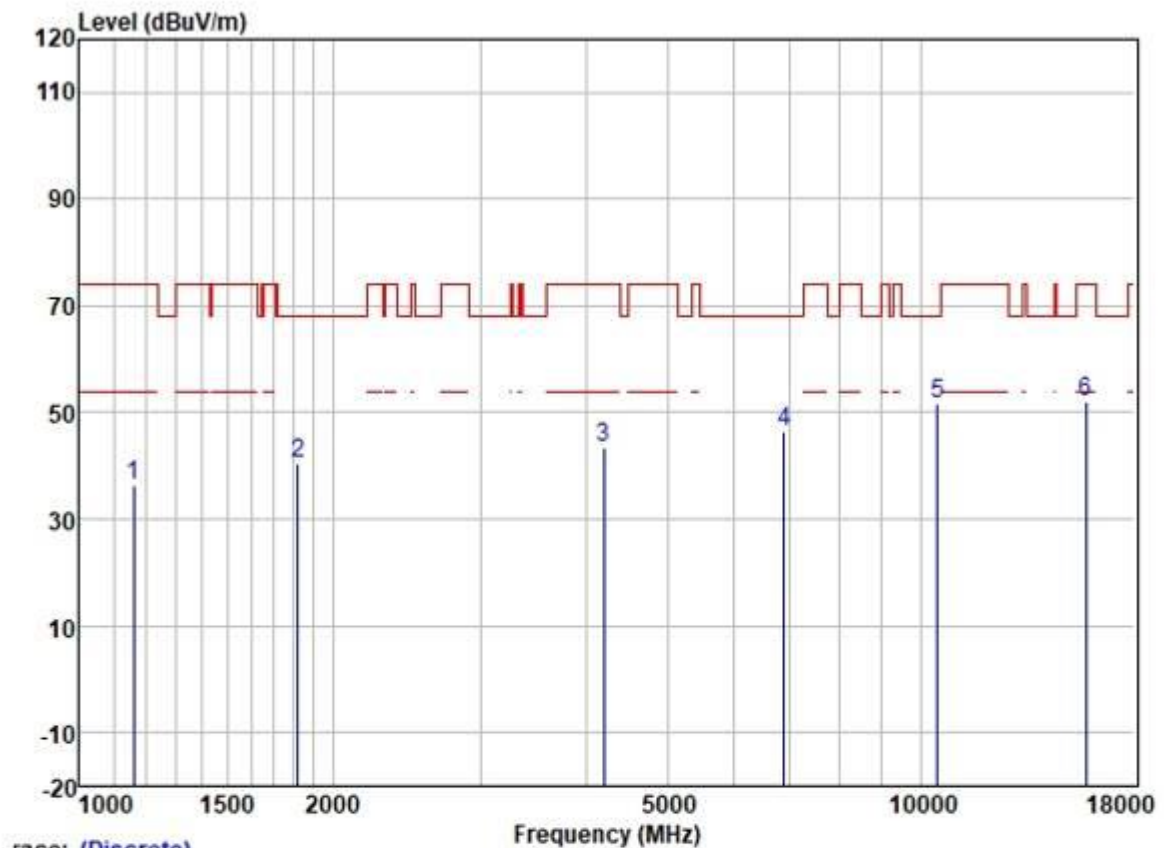
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

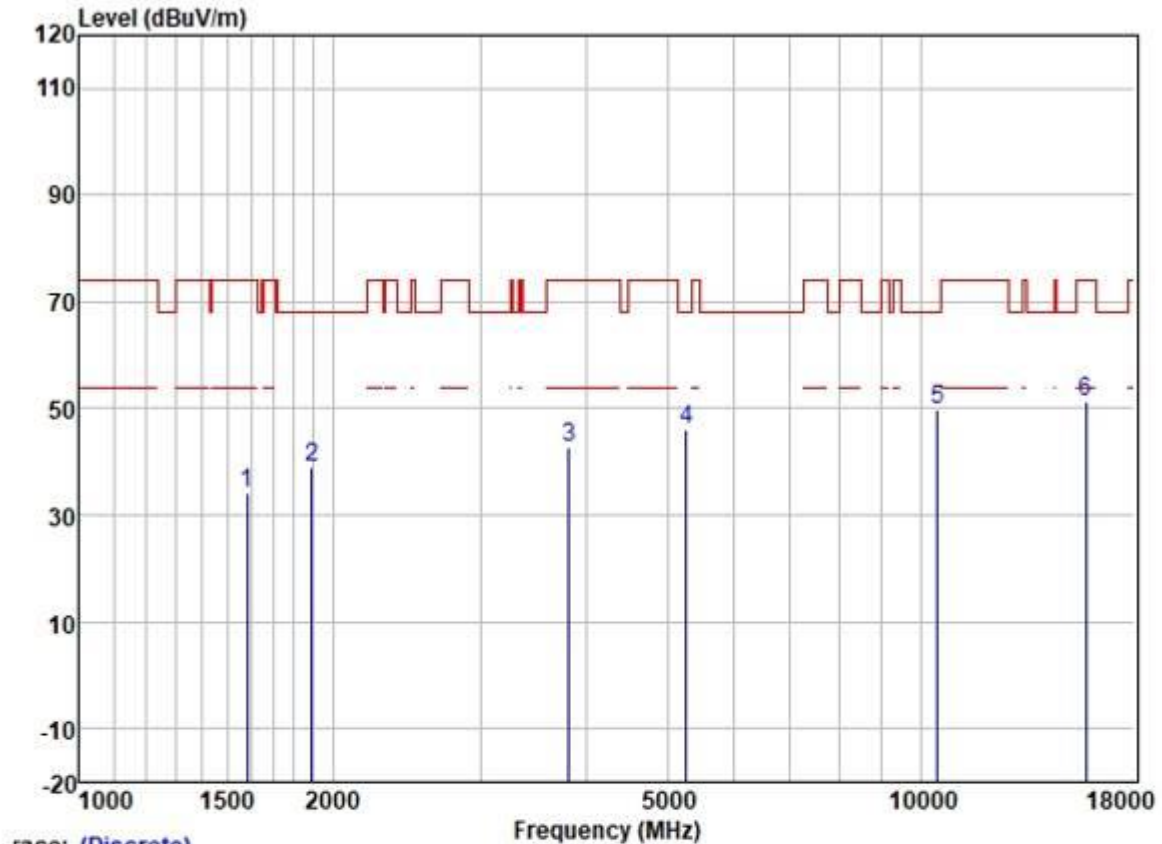
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1688.772	44.24	25.69	2.80	37.89	34.84	74.00	-39.16	VERTICAL Peak
2	1983.378	46.48	26.09	3.07	37.71	37.93	68.20	-30.27	VERTICAL Peak
3	3899.645	45.61	29.69	4.60	36.82	43.08	74.00	-30.92	VERTICAL Peak
4	5071.140	44.82	31.71	5.67	36.86	45.34	74.00	-28.66	VERTICAL Peak
5	10400.000	41.74	39.33	7.32	37.36	51.03	68.20	-17.17	VERTICAL Peak
6	15600.000	38.91	38.99	9.88	35.39	52.39	74.00	-21.61	VERTICAL Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



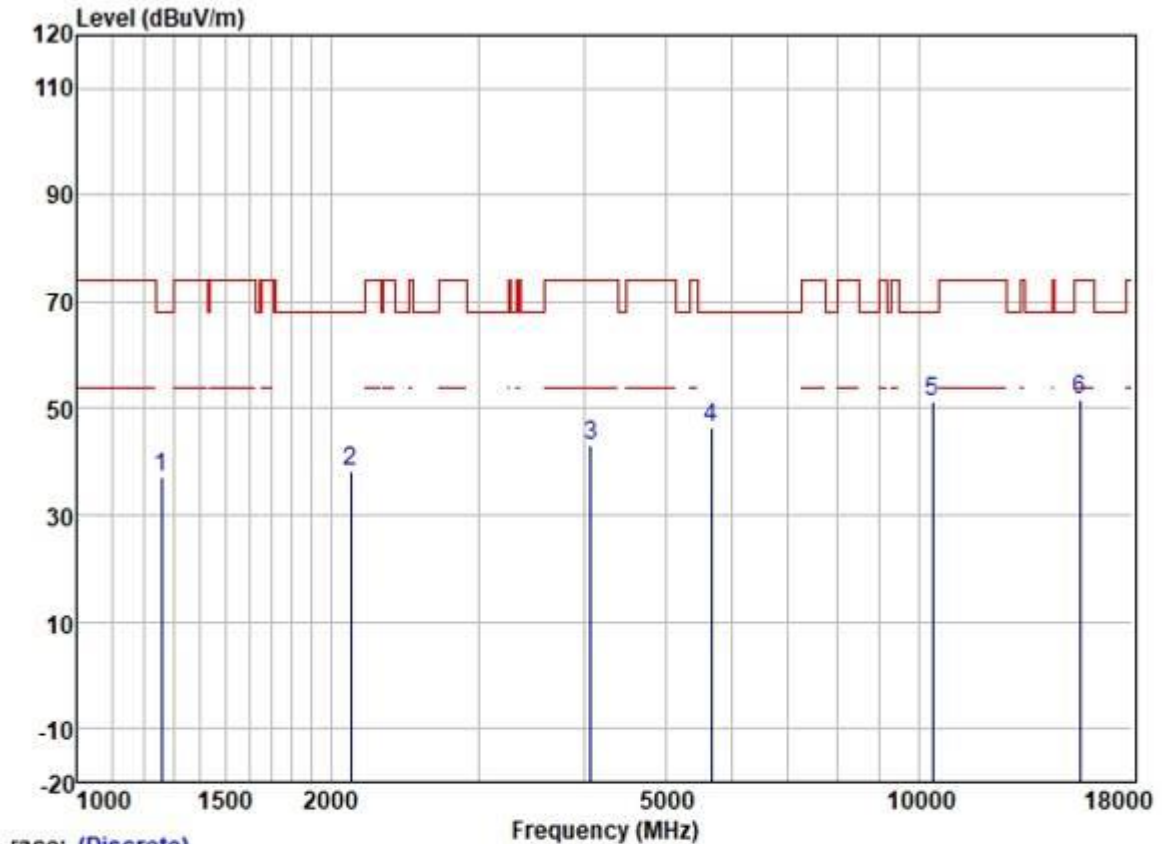
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1160.467	47.92	24.52	2.40	38.42	36.42	74.00	-37.58	HORIZONTAL Peak
2	1821.707	49.19	25.97	2.98	37.80	40.34	68.20	-27.86	HORIZONTAL Peak
3	4205.572	45.59	30.18	4.60	36.81	43.56	74.00	-30.44	HORIZONTAL Peak
4	6892.567	42.93	34.85	5.81	37.18	46.41	68.20	-21.79	HORIZONTAL Peak
5	10480.000	42.06	39.46	7.40	37.36	51.56	68.20	-16.64	HORIZONTAL Peak
6	15720.000	38.90	38.78	9.87	35.39	52.16	74.00	-21.84	HORIZONTAL Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



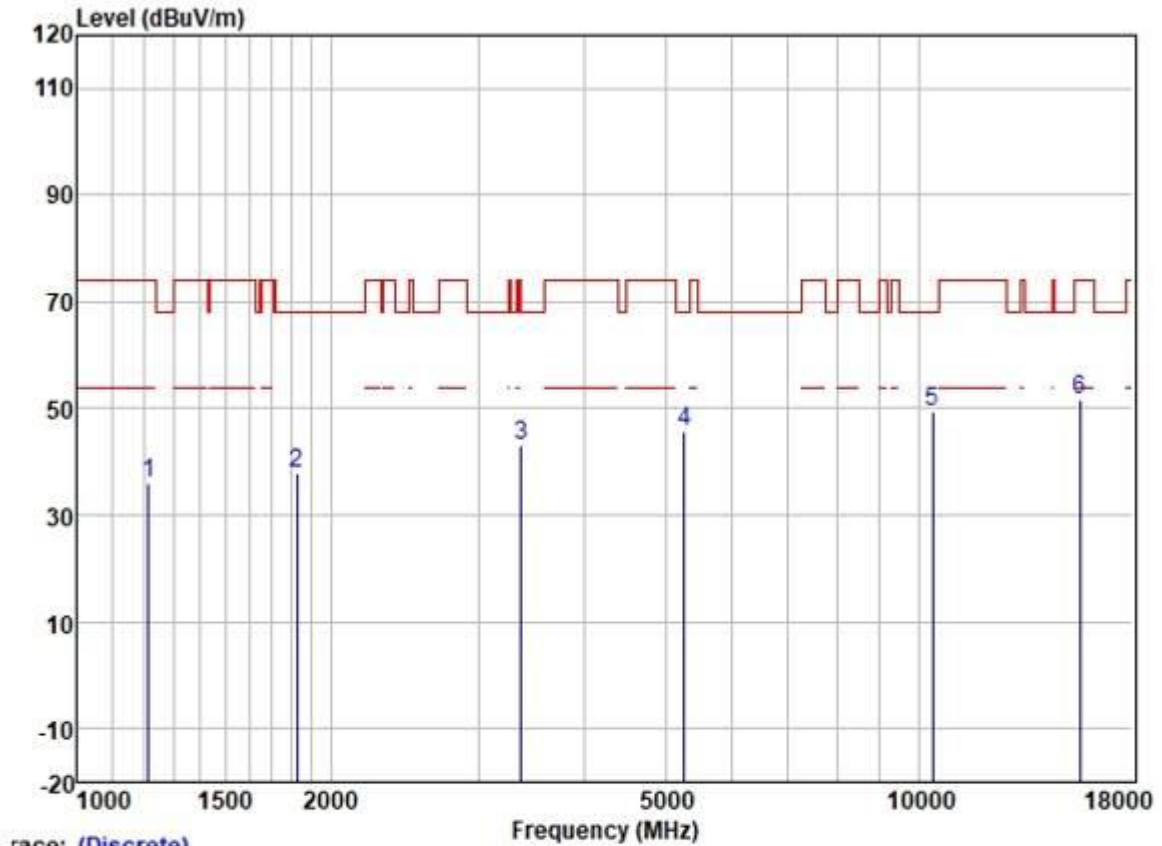
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1581.322	43.94	25.56	2.80	38.00	34.30	74.00	-39.70	VERTICAL Peak
2	1889.317	47.64	26.03	2.91	37.75	38.83	68.20	-29.37	VERTICAL Peak
3	3818.501	45.39	29.57	4.60	36.84	42.72	74.00	-31.28	VERTICAL Peak
4	5273.233	45.41	31.75	5.80	36.87	46.09	68.20	-22.11	VERTICAL Peak
5	10480.000	40.27	39.46	7.40	37.36	49.77	68.20	-18.43	VERTICAL Peak
6	15720.000	38.18	38.78	9.87	35.39	51.44	74.00	-22.56	VERTICAL Peak

Test Mode: 13; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1260.098	47.96	25.07	2.40	38.35	37.08	68.20	-31.12	HORIZONTAL Peak
2	2116.000	46.33	26.32	3.16	37.67	38.14	68.20	-30.06	HORIZONTAL Peak
3	4073.173	45.52	29.90	4.60	36.80	43.22	74.00	-30.78	HORIZONTAL Peak
4	5669.129	44.83	31.97	6.37	36.89	46.28	68.20	-21.92	HORIZONTAL Peak
5	10380.000	42.11	39.33	7.32	37.37	51.39	68.20	-16.81	HORIZONTAL Peak
6	15570.000	38.36	38.99	9.88	35.39	51.84	74.00	-22.16	HORIZONTAL Peak

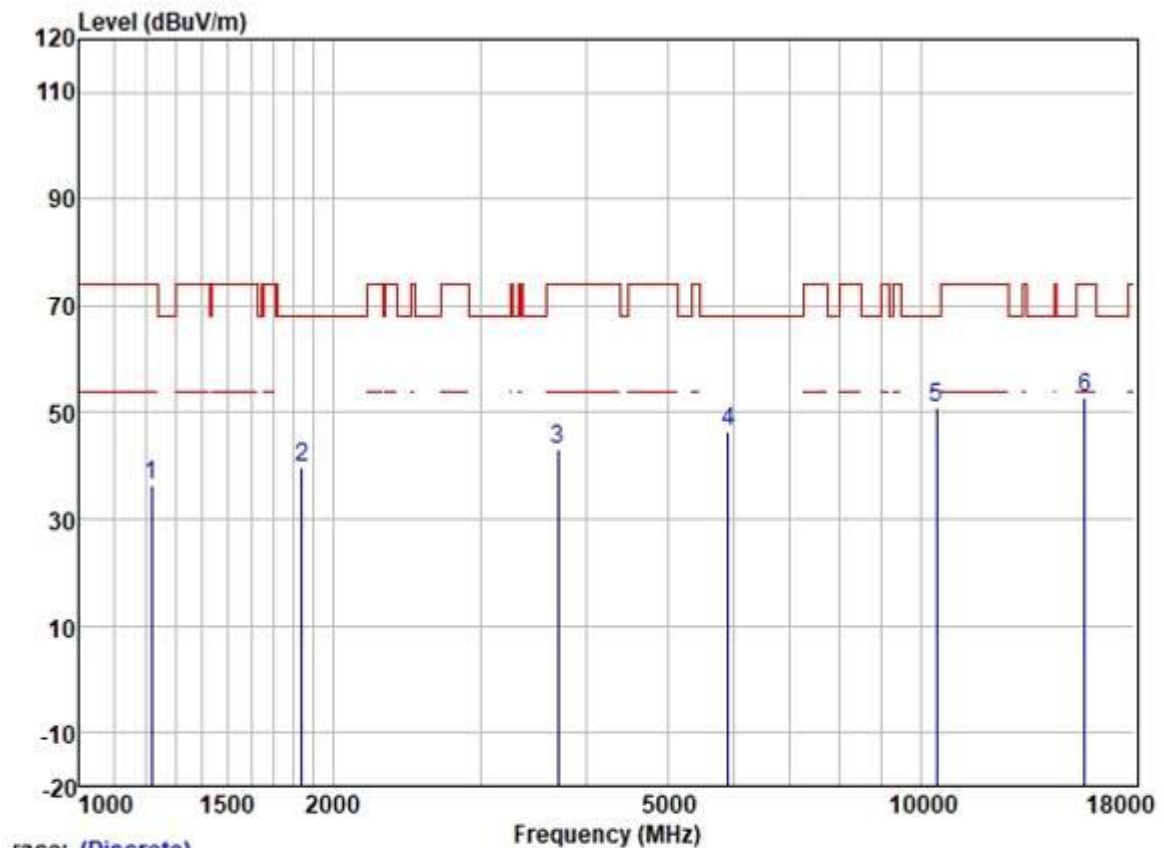
Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

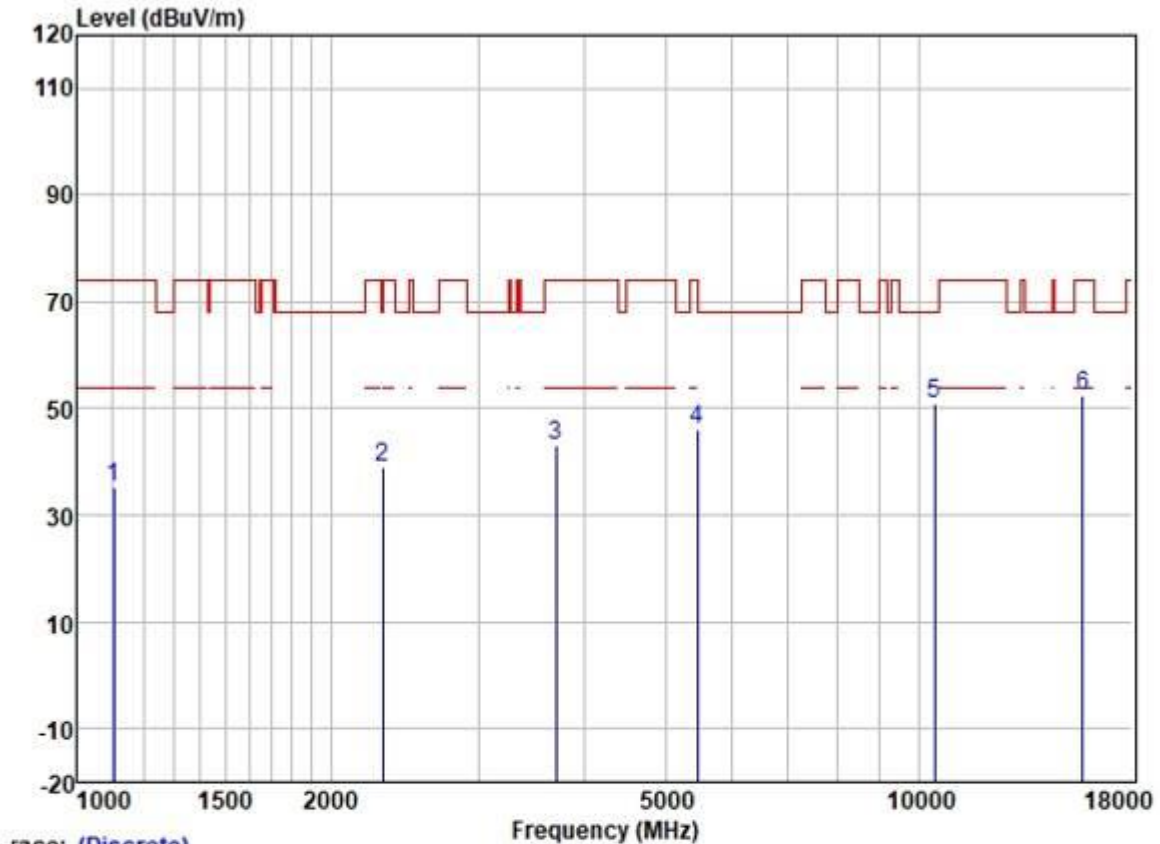
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1216.052	47.31	24.79	2.32	38.37	36.05	74.00	-37.95	VERTICAL	Peak
2	1823.473	46.73	25.97	2.98	37.80	37.88	68.20	-30.32	VERTICAL	Peak
3	3366.449	47.15	28.82	4.09	36.99	43.07	68.20	-25.13	VERTICAL	Peak
4	5269.698	45.16	31.75	5.80	36.87	45.84	68.20	-22.36	VERTICAL	Peak
5	10380.000	40.15	39.33	7.32	37.37	49.43	68.20	-18.77	VERTICAL	Peak
6	15570.000	38.31	38.99	9.88	35.39	51.79	74.00	-22.21	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



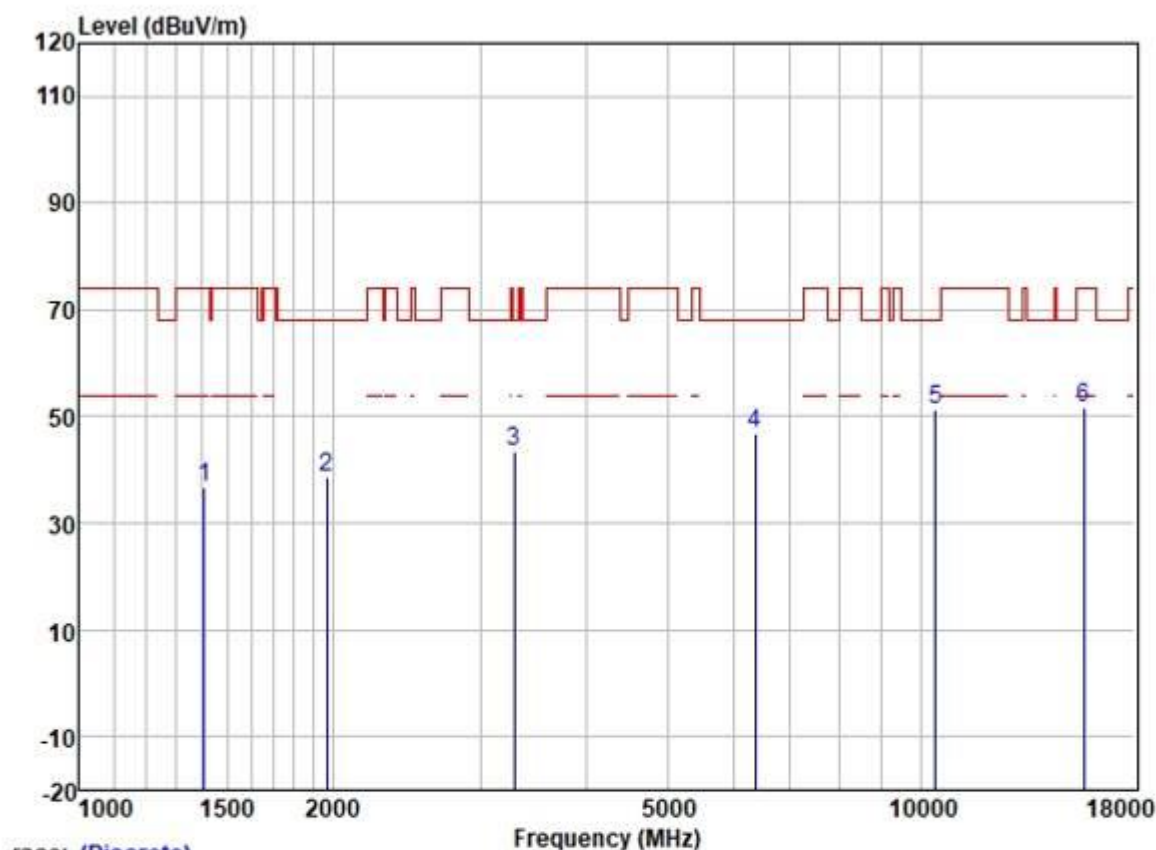
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.593	47.78	24.79	2.32	38.37	36.52	74.00	-37.48	HORIZONTAL	Peak
2	1836.757	48.45	25.98	2.96	37.80	39.59	68.20	-28.61	HORIZONTAL	Peak
3	3705.066	46.14	29.25	4.56	36.88	43.07	74.00	-30.93	HORIZONTAL	Peak
4	5909.412	45.08	32.33	5.95	36.90	46.46	68.20	-21.74	HORIZONTAL	Peak
5	10460.000	41.34	39.42	7.37	37.36	50.77	68.20	-17.43	HORIZONTAL	Peak
6	15690.000	39.36	38.86	9.87	35.39	52.70	74.00	-21.30	HORIZONTAL	Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



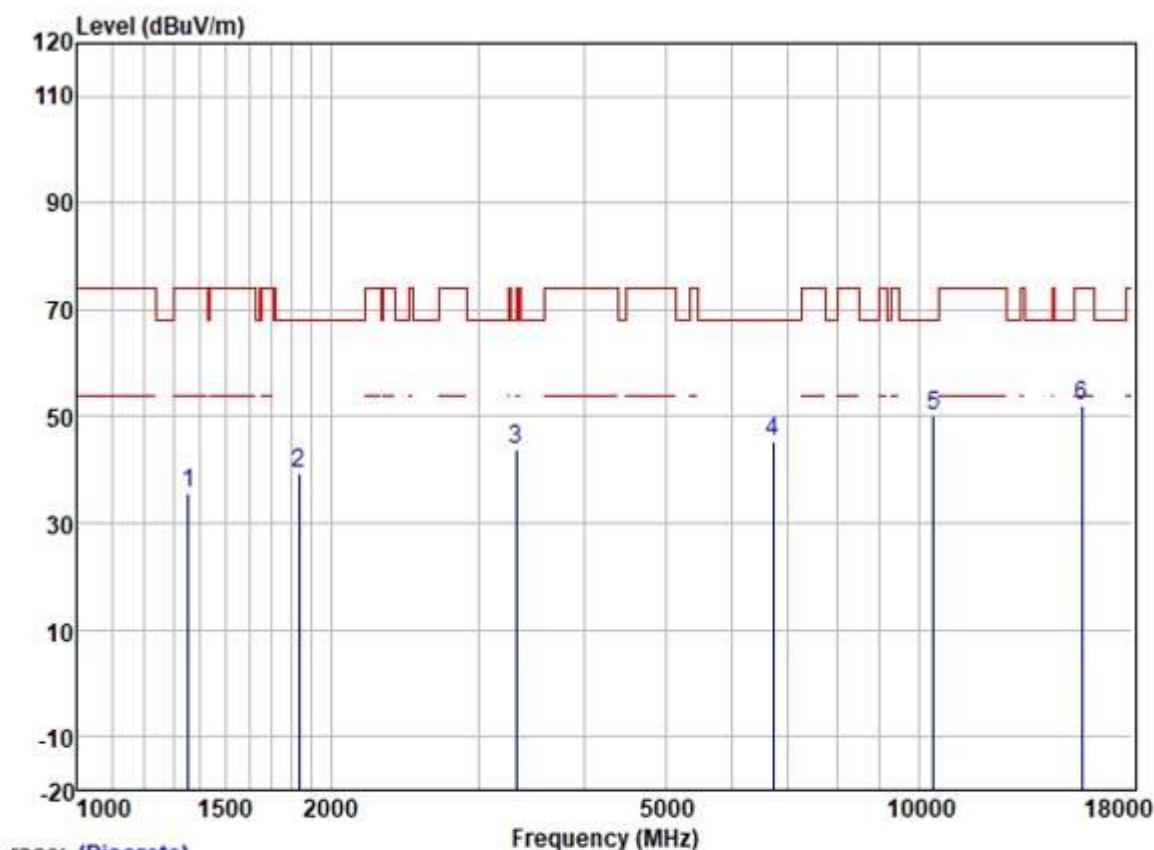
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1105.953	47.22	24.38	2.28	38.45	35.43	74.00	-38.57	VERTICAL	Peak
2	2304.189	46.16	27.13	3.31	37.62	38.98	68.20	-29.22	VERTICAL	Peak
3	3709.439	46.02	29.28	4.56	36.88	42.98	74.00	-31.02	VERTICAL	Peak
4	5465.002	44.93	31.80	6.31	36.88	46.16	68.20	-22.04	VERTICAL	Peak
5	10460.000	41.68	39.42	7.37	37.36	51.11	68.20	-17.09	VERTICAL	Peak
6	15690.000	39.11	38.86	9.87	35.39	52.45	74.00	-21.55	VERTICAL	Peak

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



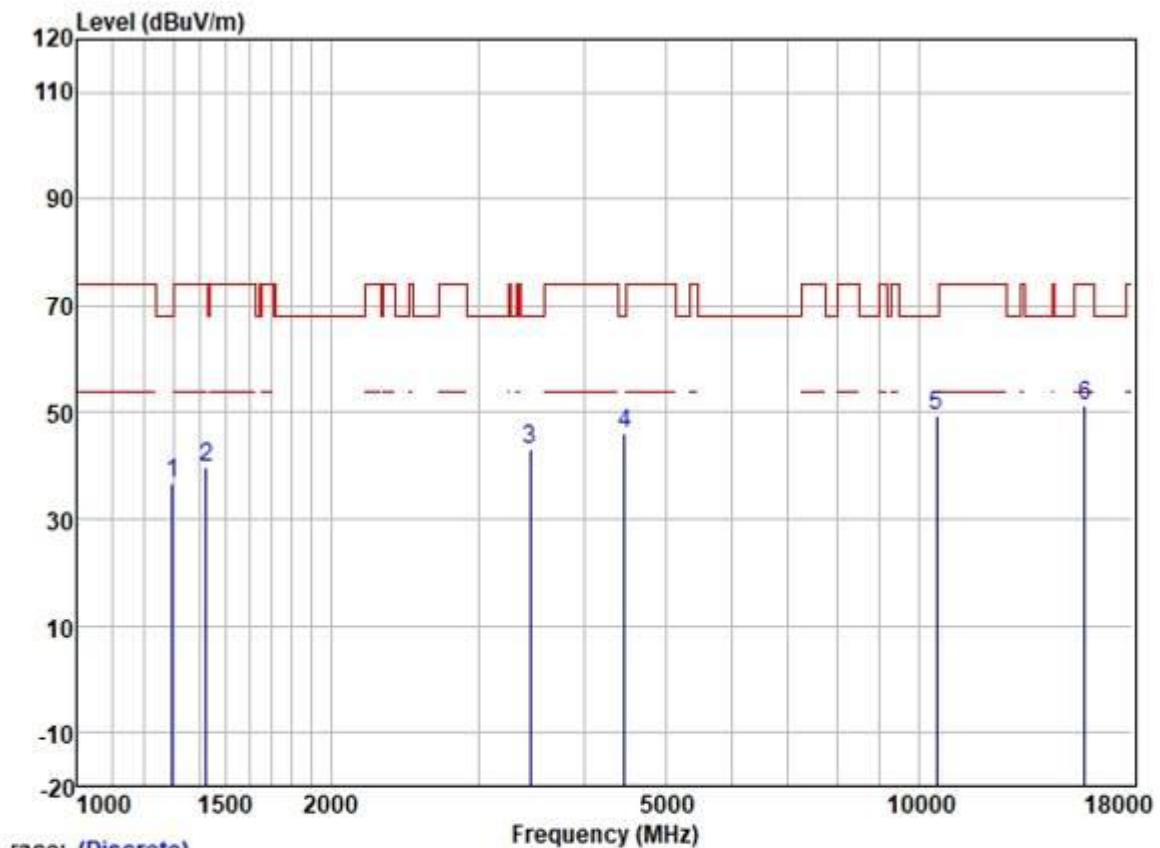
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1407.578	46.81	25.40	2.61	38.22	36.60	74.00	-37.40	HORIZONTAL Peak
2	1971.030	47.02	26.09	3.05	37.71	38.45	68.20	-29.75	HORIZONTAL Peak
3	3289.276	47.82	28.74	4.05	37.03	43.58	68.20	-24.62	HORIZONTAL Peak
4	6360.186	44.15	33.63	5.92	36.97	46.73	68.20	-21.47	HORIZONTAL Peak
5	10420.000	41.76	39.38	7.35	37.36	51.13	68.20	-17.07	HORIZONTAL Peak
6	15630.000	38.11	38.92	9.87	35.39	51.51	74.00	-22.49	HORIZONTAL Peak

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



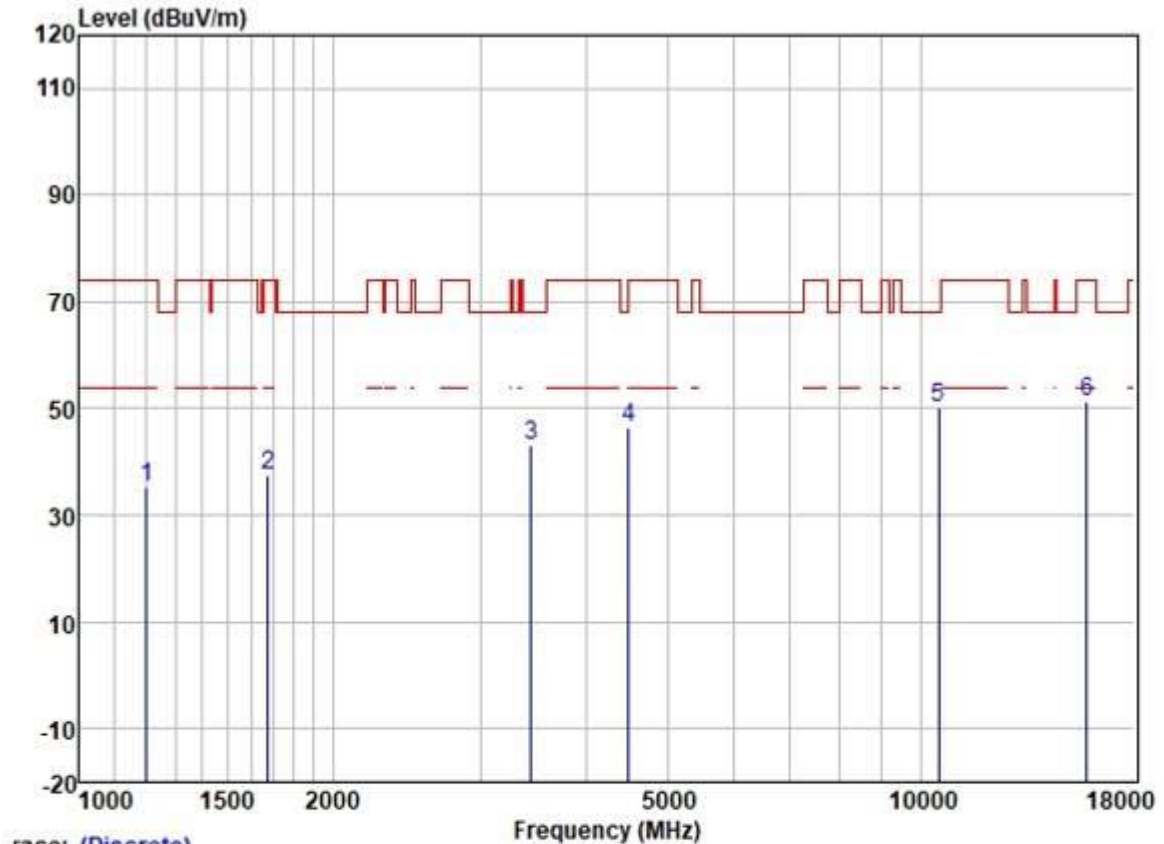
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1354.962	46.09	25.32	2.60	38.27	35.74	74.00	-38.26	VERTICAL Peak
2	1833.226	48.07	25.98	2.96	37.80	39.21	68.20	-28.99	VERTICAL Peak
3	3324.260	48.11	28.78	4.07	37.02	43.94	68.20	-24.26	VERTICAL Peak
4	6725.087	42.20	34.44	5.83	37.09	45.38	68.20	-22.82	VERTICAL Peak
5	10420.000	40.74	39.38	7.35	37.36	50.11	68.20	-18.09	VERTICAL Peak
6	15630.000	38.58	38.92	9.87	35.39	51.98	74.00	-22.02	VERTICAL Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



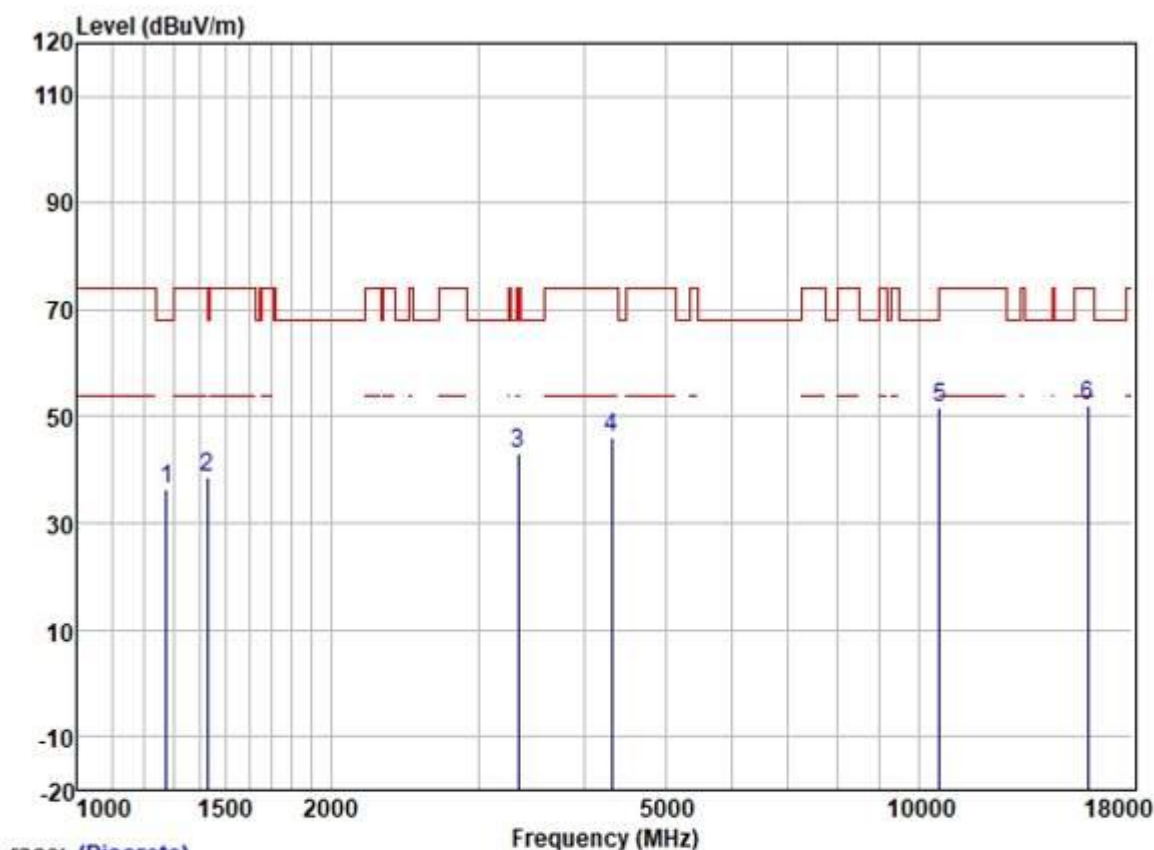
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	47.19	25.19	2.58	38.31	36.65	68.20	-31.55	HORIZONTAL	Peak
2	1422.798	49.70	25.42	2.64	38.20	39.56	74.00	-34.44	HORIZONTAL	Peak
3	3455.508	47.15	28.88	4.20	36.96	43.27	68.20	-24.93	HORIZONTAL	Peak
4	4469.214	47.18	30.77	4.93	36.81	46.07	68.20	-22.13	HORIZONTAL	Peak
5	10520.000	40.00	39.50	7.42	37.35	49.57	68.20	-18.63	HORIZONTAL	Peak
6	15780.000	38.26	38.70	9.86	35.39	51.43	74.00	-22.57	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



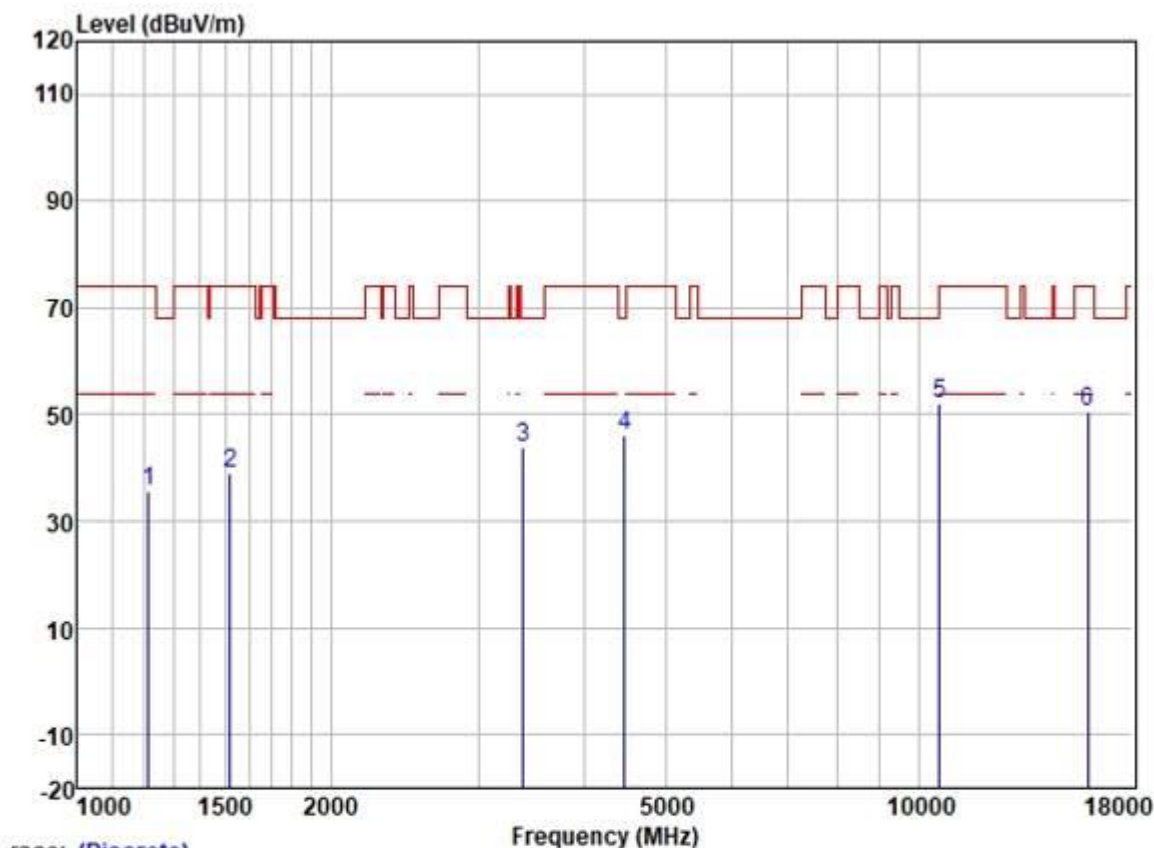
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	46.66	24.70	2.34	38.39	35.31	74.00	-38.69	VERTICAL	Peak
2	1677.621	47.02	25.68	2.80	37.91	37.59	74.00	-36.41	VERTICAL	Peak
3	3445.535	47.06	28.87	4.18	36.96	43.15	68.20	-25.05	VERTICAL	Peak
4	4495.125	47.45	30.80	5.05	36.82	46.48	68.20	-21.72	VERTICAL	Peak
5	10520.000	40.64	39.50	7.42	37.35	50.21	68.20	-17.99	VERTICAL	Peak
6	15780.000	37.98	38.70	9.86	35.39	51.15	74.00	-22.85	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



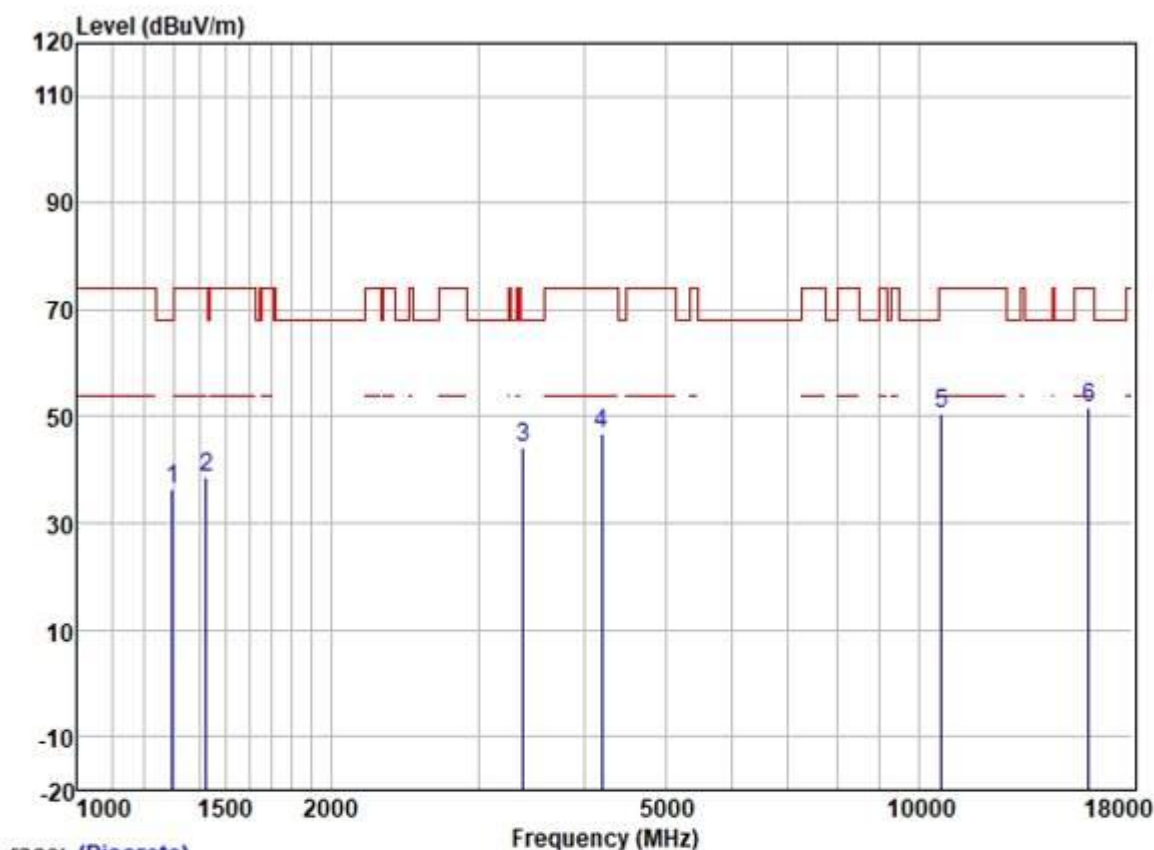
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	47.26	25.12	2.48	38.33	36.53	68.20	-31.67	HORIZONTAL	Peak
2	1426.916	48.63	25.43	2.65	38.20	38.51	74.00	-35.49	HORIZONTAL	Peak
3	3337.710	47.22	28.79	4.08	37.01	43.08	74.00	-30.92	HORIZONTAL	Peak
4	4316.859	47.61	30.51	4.66	36.81	45.97	74.00	-28.03	HORIZONTAL	Peak
5	10600.000	42.00	39.59	7.46	37.34	51.71	68.20	-16.49	HORIZONTAL	Peak
6	15900.000	39.14	38.44	9.86	35.40	52.04	74.00	-21.96	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



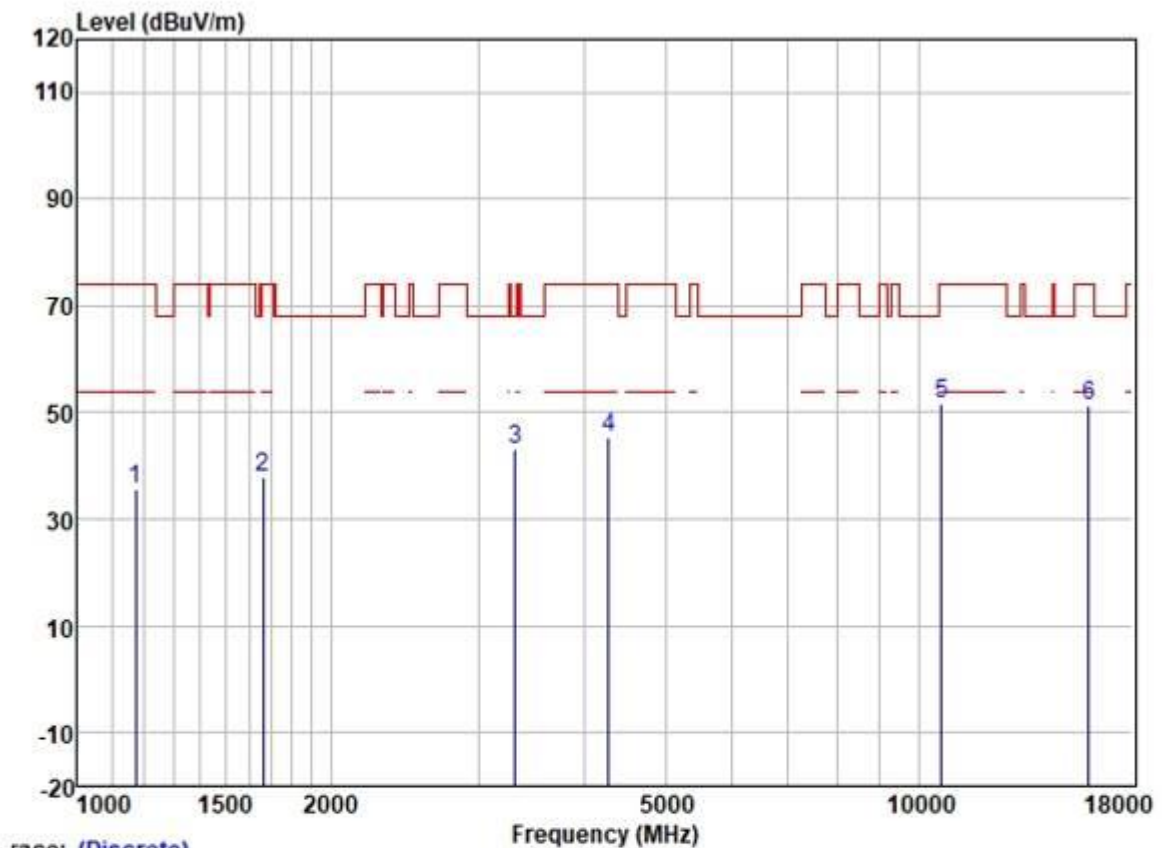
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1213.677	46.83	24.77	2.32	38.37	35.55	74.00	-38.45	VERTICAL	Peak
2	1520.598	48.63	25.51	2.80	38.07	38.87	74.00	-35.13	VERTICAL	Peak
3	3386.297	47.77	28.83	4.10	36.99	43.71	68.20	-24.49	VERTICAL	Peak
4	4469.214	47.28	30.77	4.93	36.81	46.17	68.20	-22.03	VERTICAL	Peak
5	10600.000	42.40	39.59	7.46	37.34	52.11	68.20	-16.09	VERTICAL	Peak
6	15900.000	37.64	38.44	9.86	35.40	50.54	74.00	-23.46	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



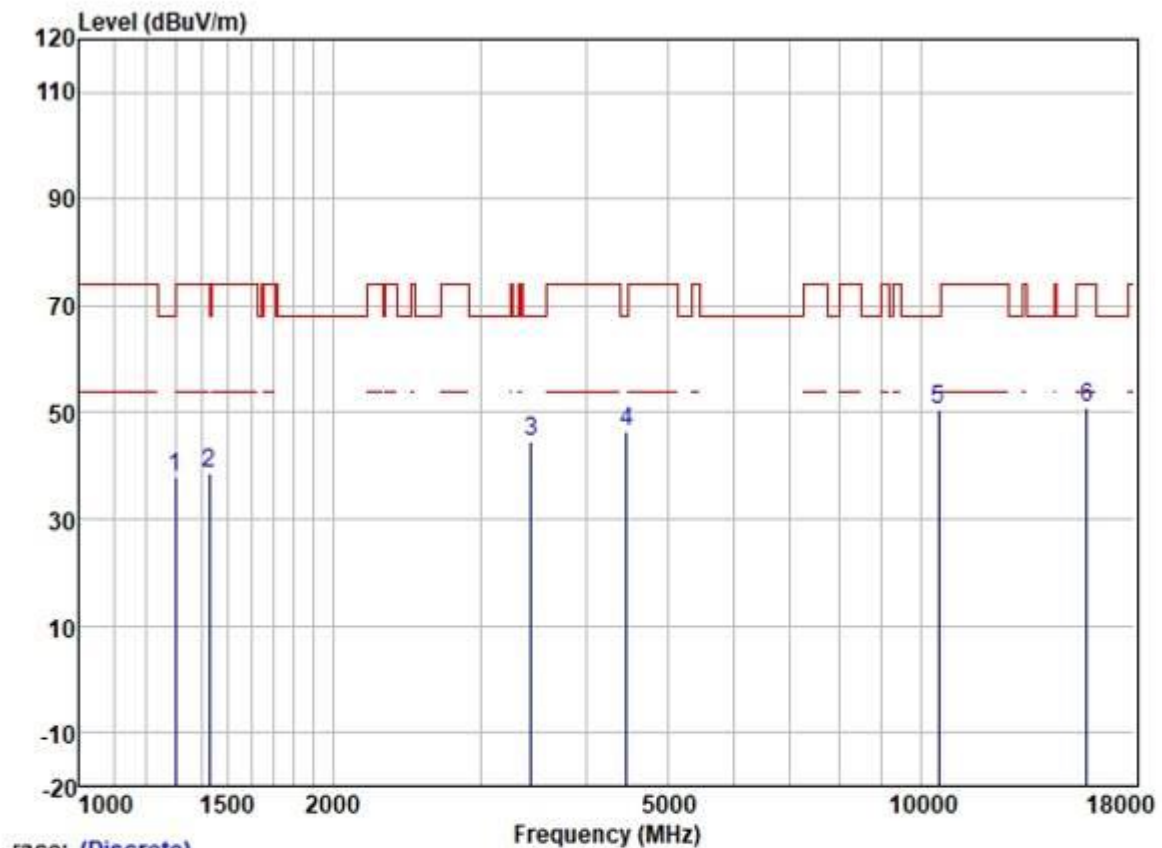
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.84	25.19	2.58	38.31	36.30	68.20	-31.90	HORIZONTAL Peak
2	1422.798	48.65	25.42	2.64	38.20	38.51	74.00	-35.49	HORIZONTAL Peak
3	3386.297	48.16	28.83	4.10	36.99	44.10	68.20	-24.10	HORIZONTAL Peak
4	4206.011	48.91	30.18	4.60	36.81	46.88	74.00	-27.12	HORIZONTAL Peak
5	10640.000	40.87	39.63	7.48	37.33	50.65	74.00	-23.35	HORIZONTAL Peak
6	15960.000	38.69	38.37	9.85	35.40	51.51	74.00	-22.49	HORIZONTAL Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; 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	1172.303	47.19	24.56	2.39	38.40	35.74	74.00	-38.26	VERTICAL Peak
2	1663.137	47.41	25.65	2.80	37.91	37.95	74.00	-36.05	VERTICAL Peak
3	3318.471	47.41	28.77	4.07	37.02	43.23	68.20	-24.97	VERTICAL Peak
4	4279.589	47.19	30.42	4.63	36.81	45.43	74.00	-28.57	VERTICAL Peak
5	10640.000	41.78	39.63	7.48	37.33	51.56	74.00	-22.44	VERTICAL Peak
6	15960.000	38.32	38.37	9.85	35.40	51.14	74.00	-22.86	VERTICAL Peak

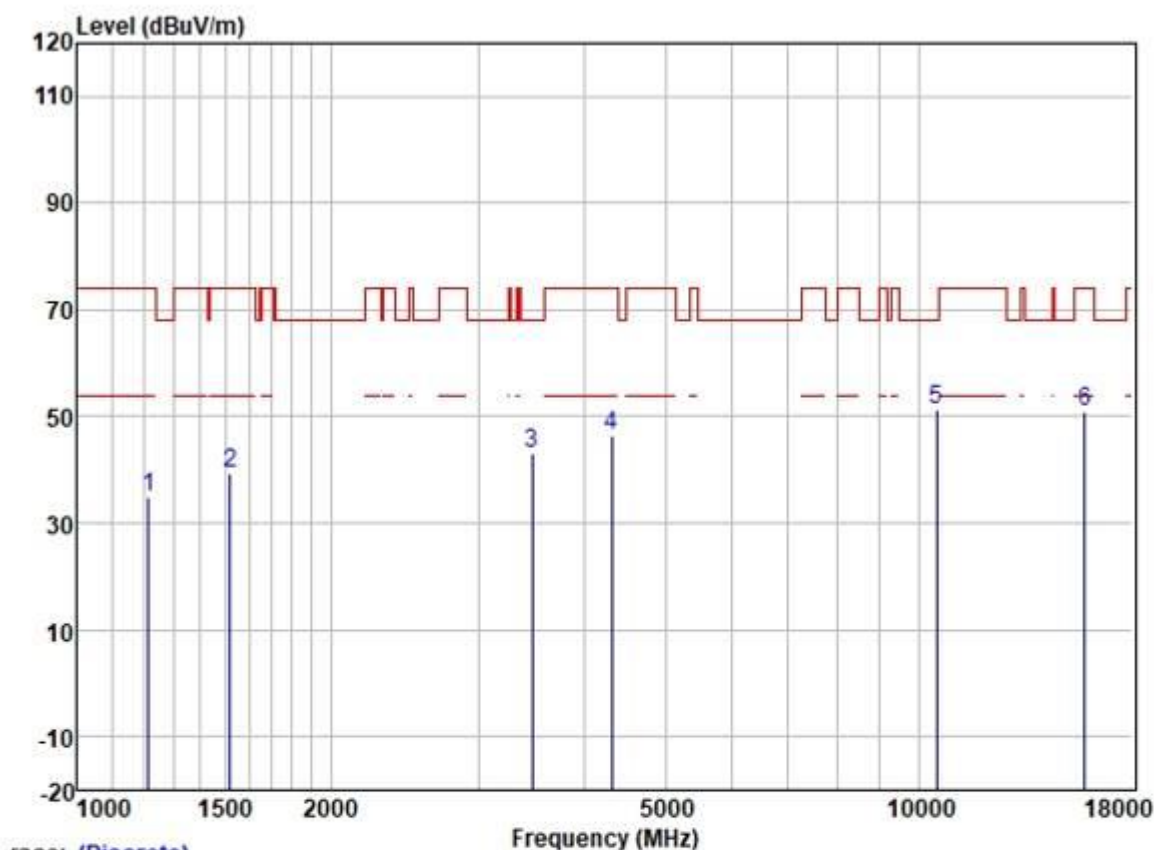
Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	1300.858	48.23	25.20	2.60	38.31	37.72	74.00	-36.28	HORIZONTAL Peak
2	1426.916	48.65	25.43	2.65	38.20	38.53	74.00	-35.47	HORIZONTAL Peak
3	3445.535	48.46	28.87	4.18	36.96	44.55	68.20	-23.65	HORIZONTAL Peak
4	4469.214	47.67	30.77	4.93	36.81	46.56	68.20	-21.64	HORIZONTAL Peak
5	10520.000	41.00	39.50	7.42	37.35	50.57	68.20	-17.63	HORIZONTAL Peak
6	15780.000	37.79	38.70	9.86	35.39	50.96	74.00	-23.04	HORIZONTAL Peak

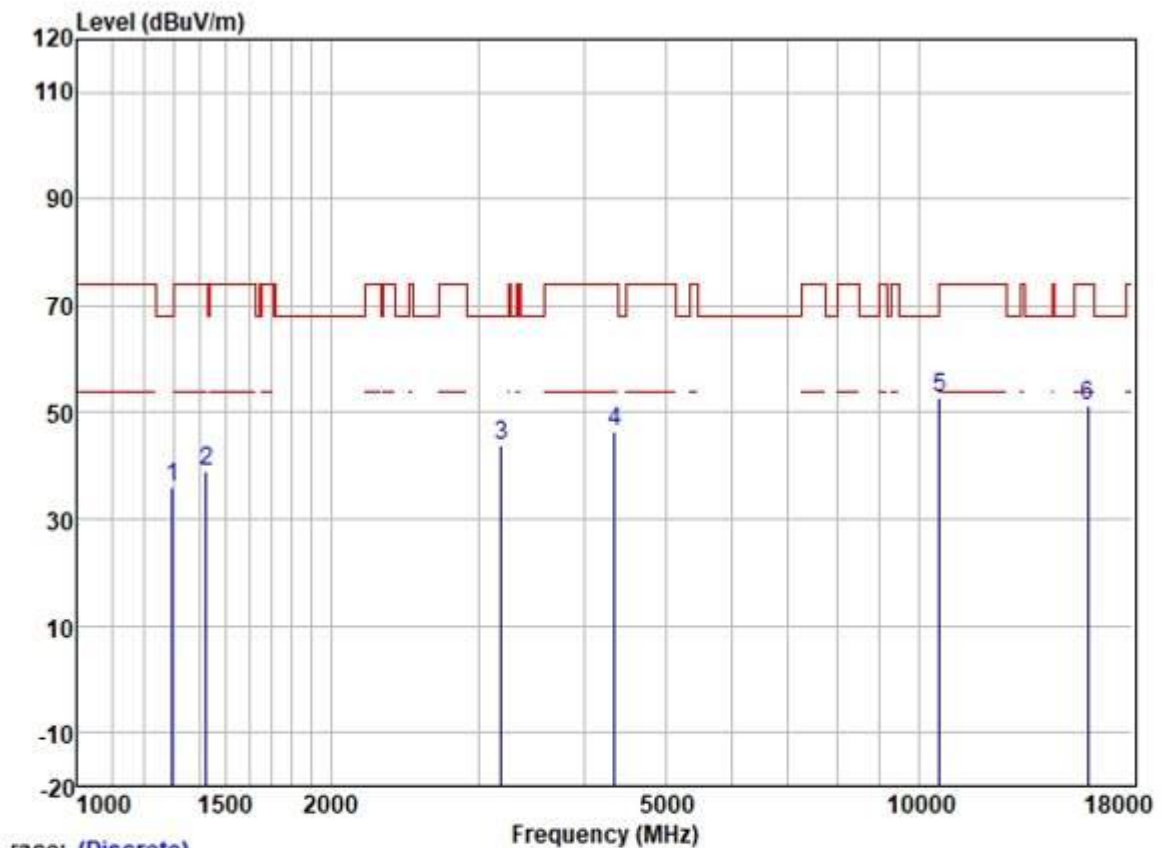
Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

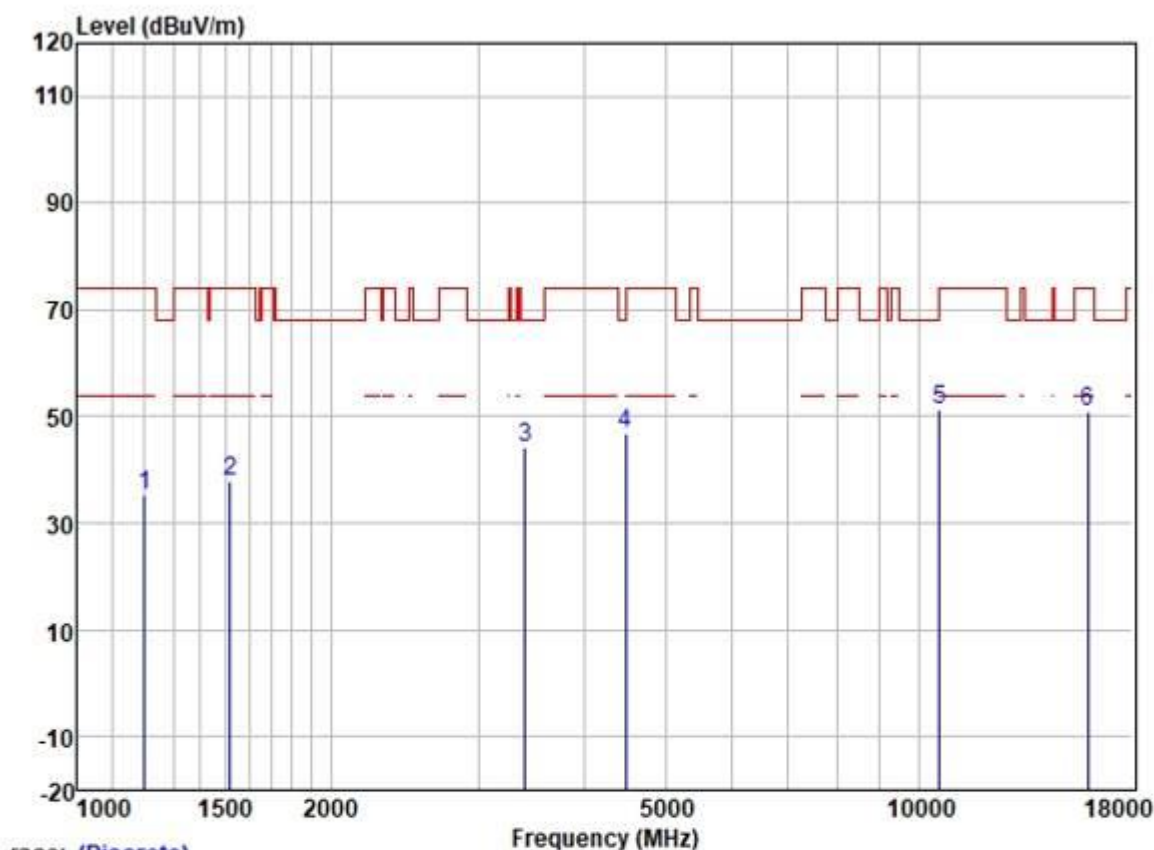
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1213.677	46.30	24.77	2.32	38.37	35.02	74.00	-38.98	VERTICAL Peak
2	1520.598	49.25	25.51	2.80	38.07	39.49	74.00	-34.51	VERTICAL Peak
3	3475.541	46.81	28.89	4.25	36.95	43.00	68.20	-25.20	VERTICAL Peak
4	4316.859	48.20	30.51	4.66	36.81	46.56	74.00	-27.44	VERTICAL Peak
5	10520.000	41.91	39.50	7.42	37.35	51.48	68.20	-16.72	VERTICAL Peak
6	15780.000	37.82	38.70	9.86	35.39	50.99	74.00	-23.01	VERTICAL Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



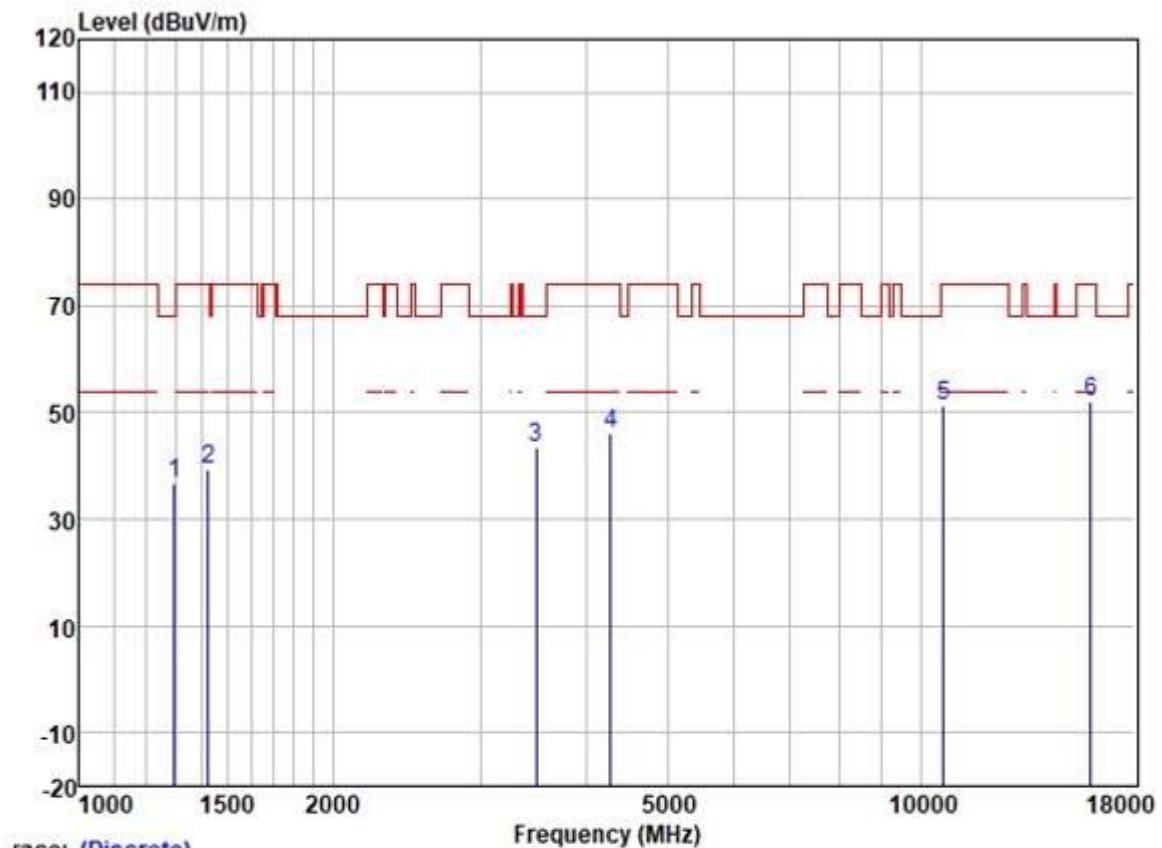
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	46.52	25.19	2.58	38.31	35.98	68.20	-32.22	HORIZONTAL	Peak
2	1422.798	49.23	25.42	2.64	38.20	39.09	74.00	-34.91	HORIZONTAL	Peak
3	3186.869	48.49	28.57	3.99	37.10	43.95	68.20	-24.25	HORIZONTAL	Peak
4	4354.454	47.99	30.59	4.68	36.81	46.45	74.00	-27.55	HORIZONTAL	Peak
5	10600.000	43.19	39.59	7.46	37.34	52.90	68.20	-15.30	HORIZONTAL	Peak
6	15900.000	38.52	38.44	9.86	35.40	51.42	74.00	-22.58	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



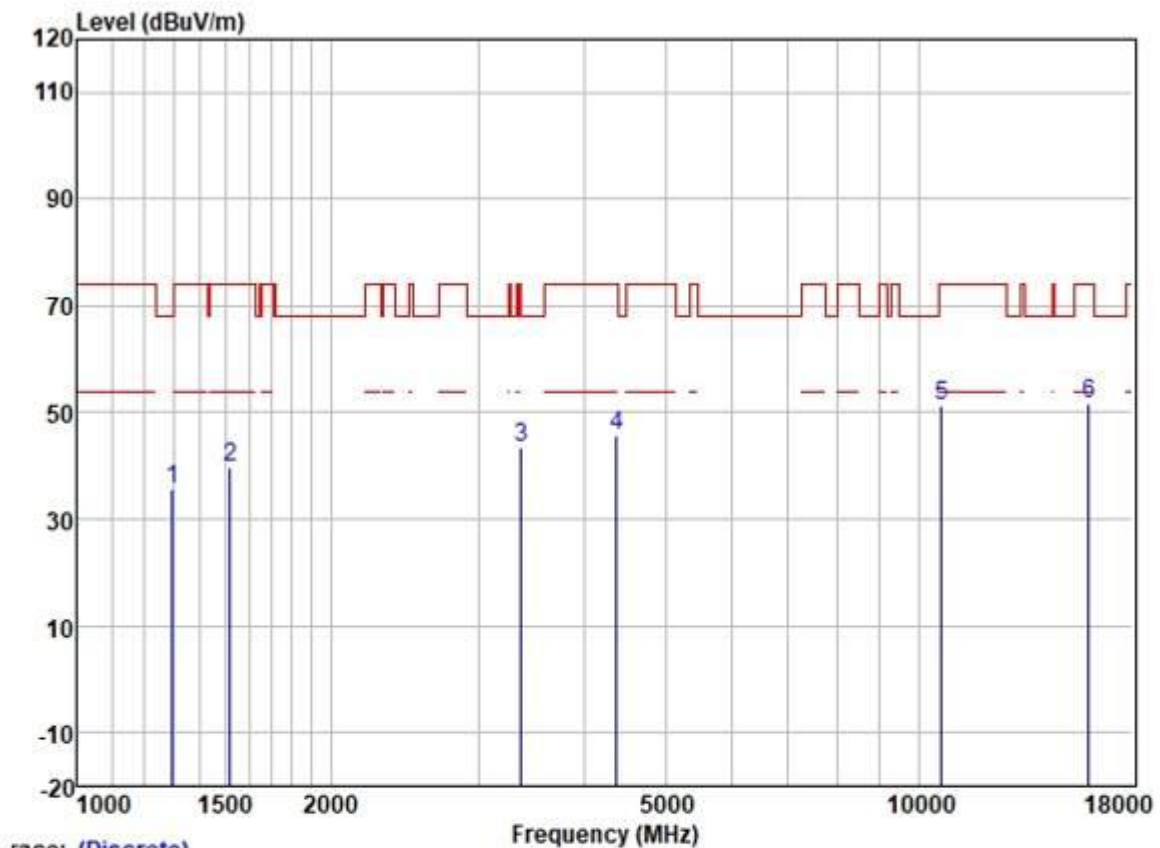
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1203.199	46.75	24.70	2.34	38.39	35.40	74.00	-38.60	VERTICAL Peak
2	1520.598	47.68	25.51	2.80	38.07	37.92	74.00	-36.08	VERTICAL Peak
3	3405.929	48.18	28.85	4.11	36.98	44.16	68.20	-24.04	VERTICAL Peak
4	4482.150	47.82	30.78	4.99	36.81	46.78	68.20	-21.42	VERTICAL Peak
5	10600.000	41.58	39.59	7.46	37.34	51.29	68.20	-16.91	VERTICAL Peak
6	15900.000	38.13	38.44	9.86	35.40	51.03	74.00	-22.97	VERTICAL Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



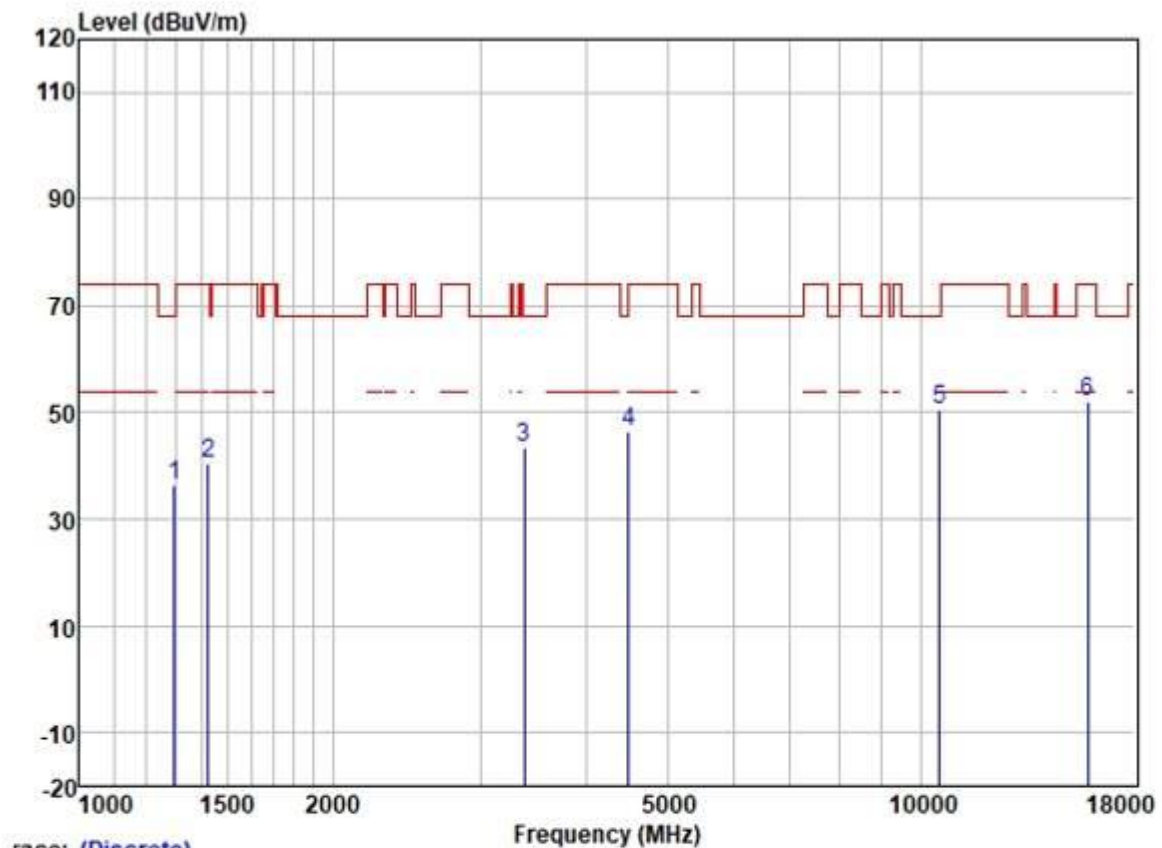
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	47.29	25.19	2.58	38.31	36.75	68.20	-31.45	HORIZONTAL	Peak
2	1422.798	49.38	25.42	2.64	38.20	39.24	74.00	-34.76	HORIZONTAL	Peak
3	3495.691	47.14	28.90	4.30	36.94	43.40	68.20	-24.80	HORIZONTAL	Peak
4	4279.589	47.70	30.42	4.63	36.81	45.94	74.00	-28.06	HORIZONTAL	Peak
5	10640.000	41.42	39.63	7.48	37.33	51.20	74.00	-22.80	HORIZONTAL	Peak
6	15960.000	39.27	38.37	9.85	35.40	52.09	74.00	-21.91	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



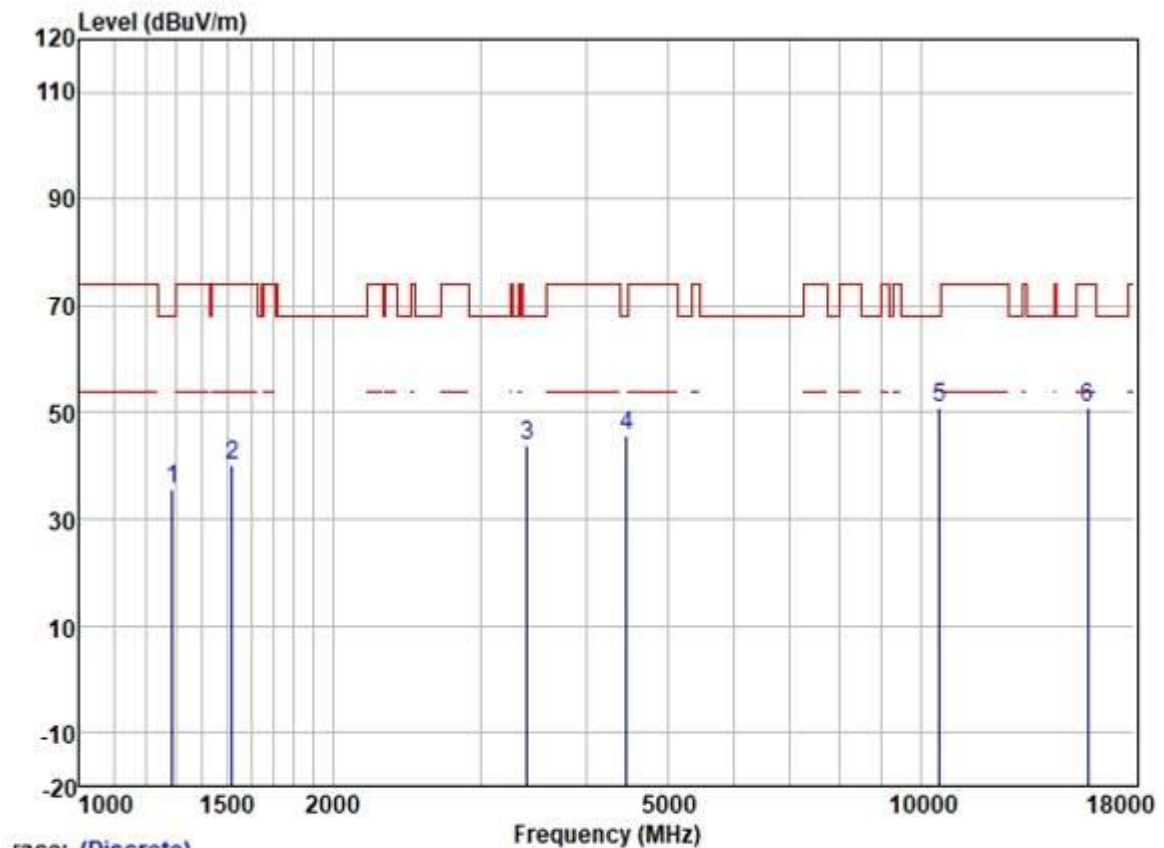
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.03	25.19	2.58	38.31	35.49	68.20	-32.71	VERTICAL Peak
2	1520.598	49.58	25.51	2.80	38.07	39.82	74.00	-34.18	VERTICAL Peak
3	3366.778	47.53	28.82	4.09	36.99	43.45	68.20	-24.75	VERTICAL Peak
4	4379.699	47.19	30.64	4.69	36.81	45.71	74.00	-28.29	VERTICAL Peak
5	10640.000	41.48	39.63	7.48	37.33	51.26	74.00	-22.74	VERTICAL Peak
6	15960.000	38.82	38.37	9.85	35.40	51.64	74.00	-22.36	VERTICAL Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



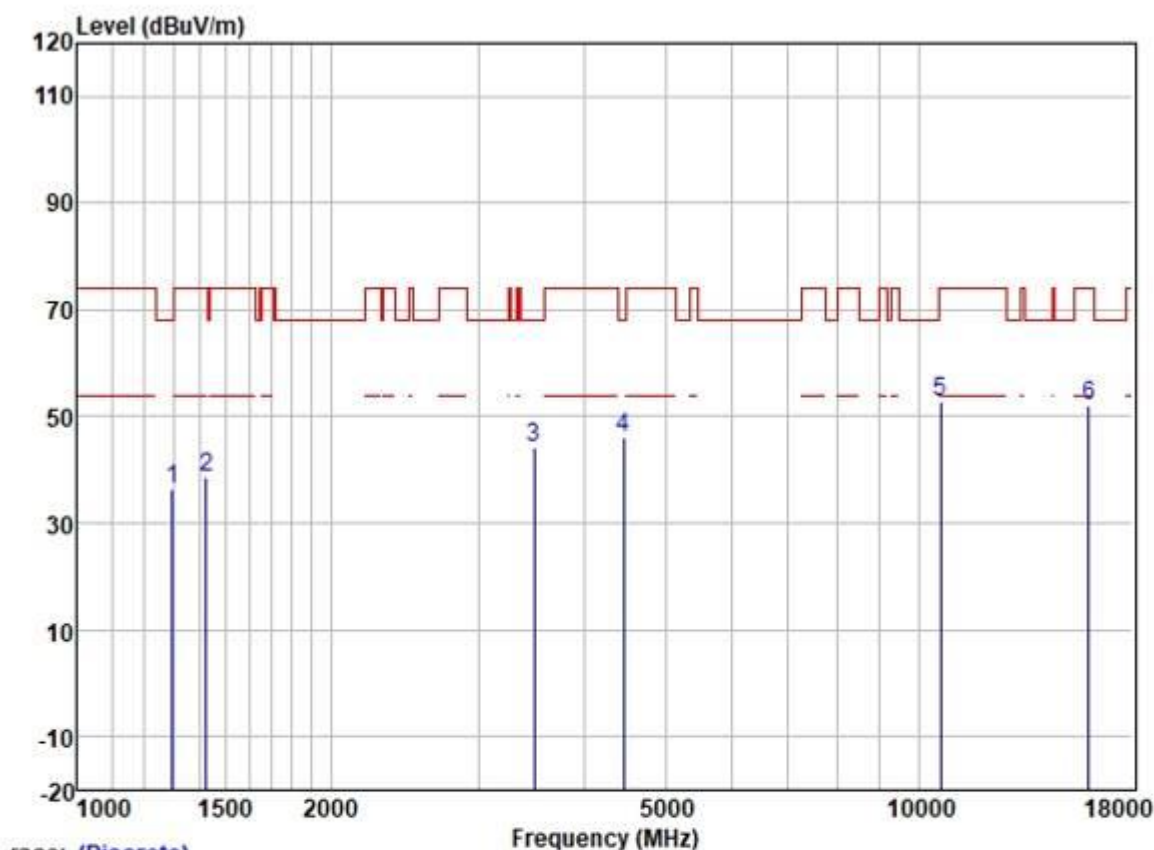
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.82	25.19	2.58	38.31	36.28	68.20	-31.92	HORIZONTAL Peak
2	1422.798	50.68	25.42	2.64	38.20	40.54	74.00	-33.46	HORIZONTAL Peak
3	3376.523	47.55	28.83	4.09	36.99	43.48	68.20	-24.72	HORIZONTAL Peak
4	4495.125	47.40	30.80	5.05	36.82	46.43	68.20	-21.77	HORIZONTAL Peak
5	10540.000	41.11	39.53	7.43	37.35	50.72	68.20	-17.48	HORIZONTAL Peak
6	15810.000	38.80	38.61	9.86	35.39	51.88	74.00	-22.12	HORIZONTAL Peak

Test Mode: 15; 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	1289.627	46.29	25.17	2.55	38.31	35.70	68.20	-32.50	VERTICAL Peak
2	1520.598	49.76	25.51	2.80	38.07	40.00	74.00	-34.00	VERTICAL Peak
3	3405.929	47.91	28.85	4.11	36.98	43.89	68.20	-24.31	VERTICAL Peak
4	4469.214	46.86	30.77	4.93	36.81	45.75	68.20	-22.45	VERTICAL Peak
5	10540.000	41.39	39.53	7.43	37.35	51.00	68.20	-17.20	VERTICAL Peak
6	15810.000	37.94	38.61	9.86	35.39	51.02	74.00	-22.98	VERTICAL Peak

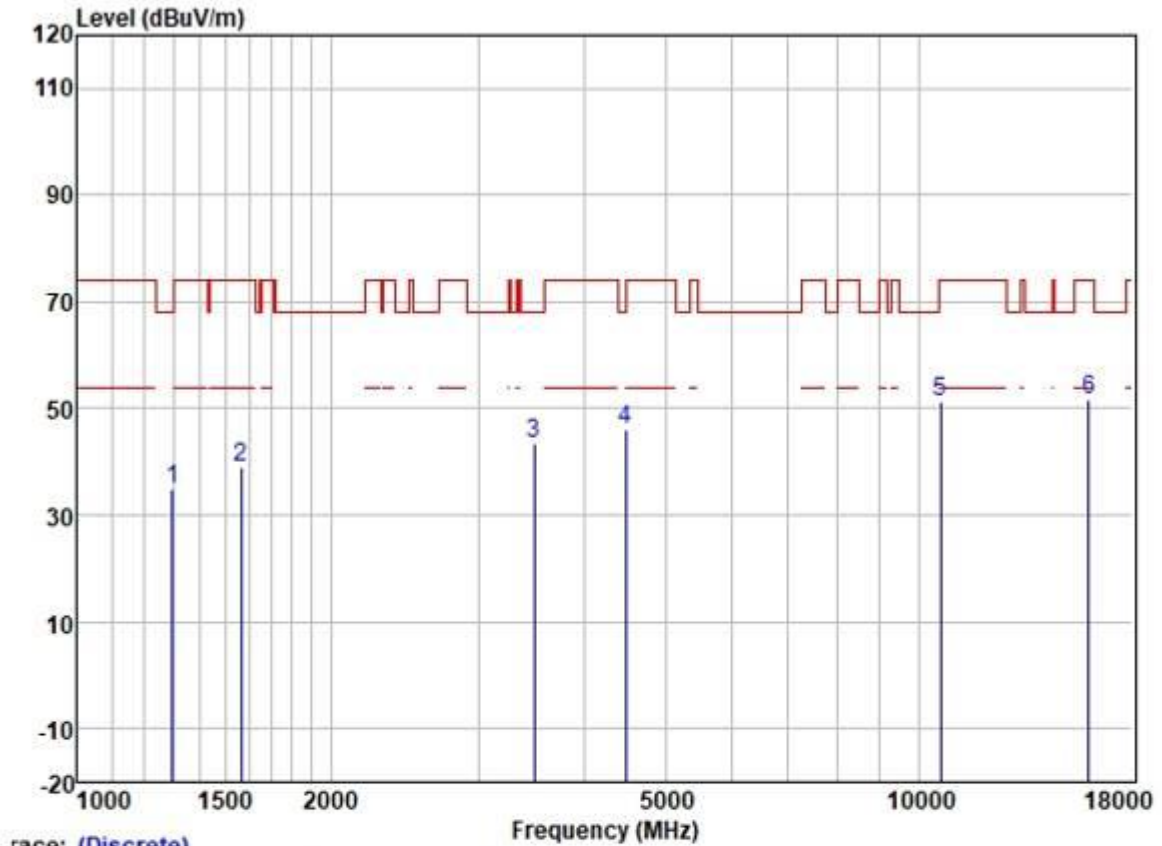
Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

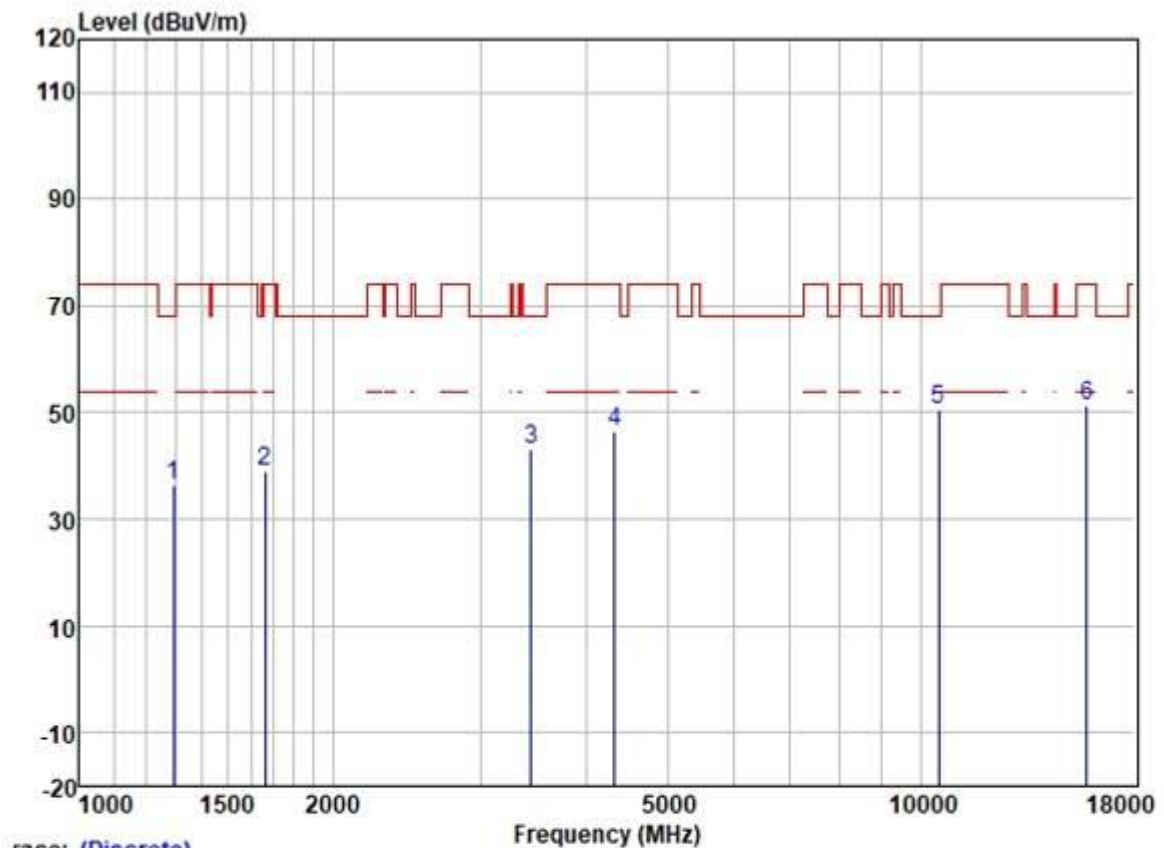
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	47.09	25.19	2.58	38.31	36.55	68.20	-31.65	HORIZONTAL Peak
2	1422.798	48.92	25.42	2.64	38.20	38.78	74.00	-35.22	HORIZONTAL Peak
3	3495.691	47.81	28.90	4.30	36.94	44.07	68.20	-24.13	HORIZONTAL Peak
4	4456.315	47.36	30.75	4.88	36.81	46.18	68.20	-22.02	HORIZONTAL Peak
5	10620.000	42.93	39.59	7.46	37.34	52.64	74.00	-21.36	HORIZONTAL Peak
6	15930.000	39.31	38.37	9.85	35.40	52.13	74.00	-21.87	HORIZONTAL Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



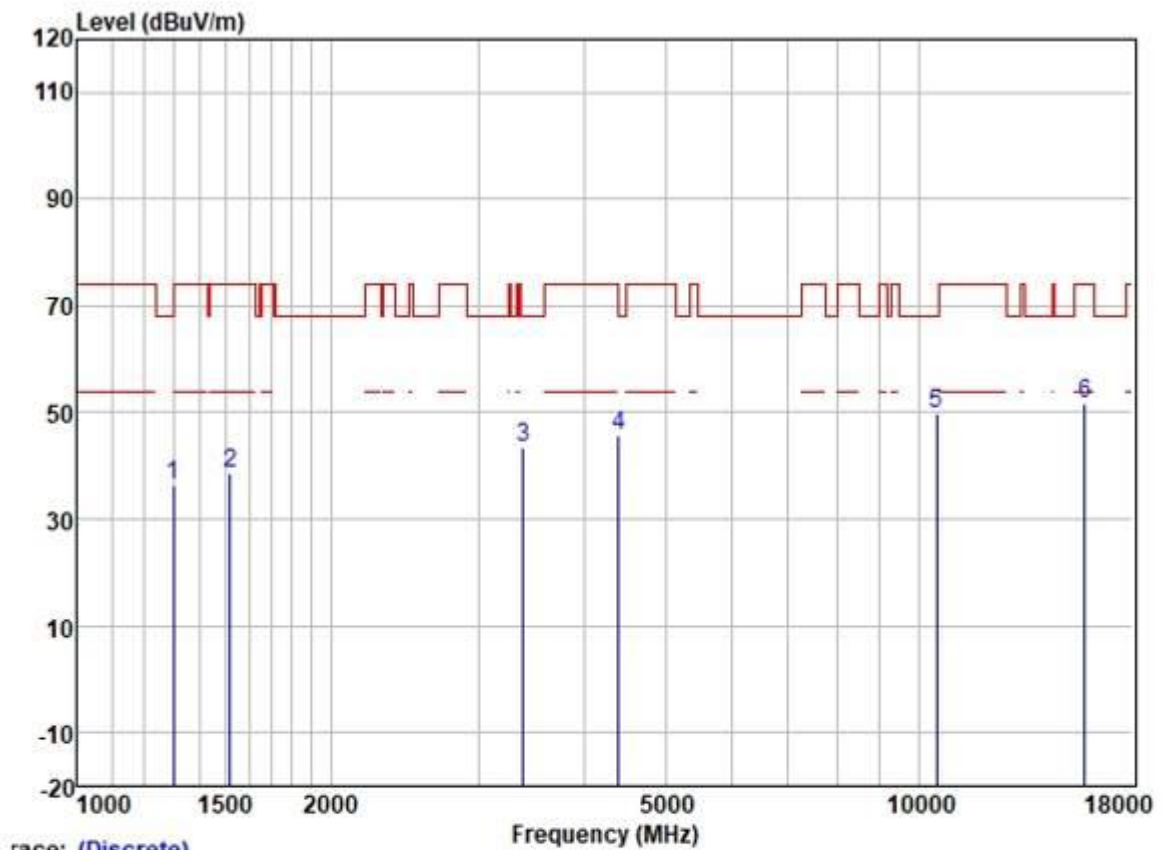
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	45.26	25.19	2.58	38.31	34.72	68.20	-33.48	VERTICAL	Peak
2	1565.191	48.68	25.55	2.80	38.00	39.03	74.00	-34.97	VERTICAL	Peak
3	3495.691	47.36	28.90	4.30	36.94	43.62	68.20	-24.58	VERTICAL	Peak
4	4482.150	47.01	30.78	4.99	36.81	45.97	68.20	-22.23	VERTICAL	Peak
5	10620.000	41.56	39.59	7.46	37.34	51.27	74.00	-22.73	VERTICAL	Peak
6	15930.000	38.75	38.37	9.85	35.40	51.57	74.00	-22.43	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



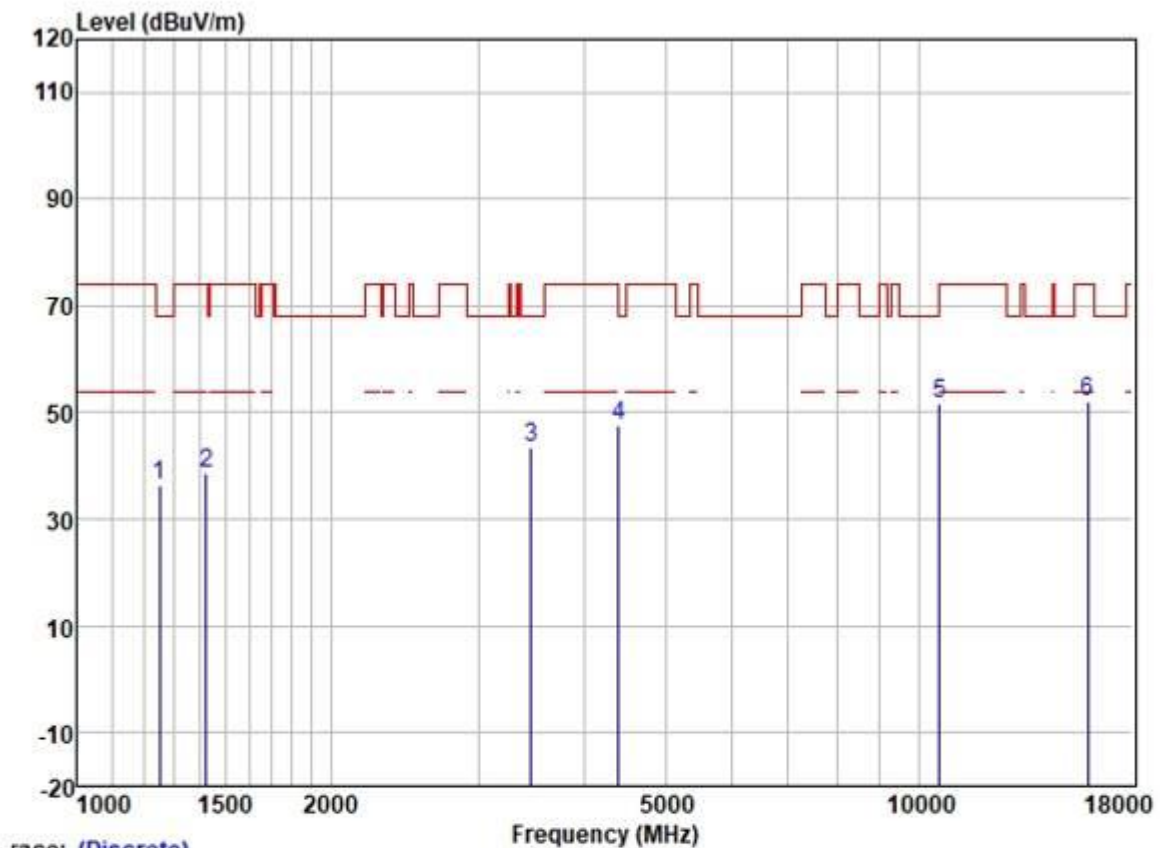
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1293.359	46.99	25.18	2.57	38.31	36.43	68.20	-31.77	HORIZONTAL	Peak
2	1663.137	48.53	25.65	2.80	37.91	39.07	74.00	-34.93	HORIZONTAL	Peak
3	3445.535	47.13	28.87	4.18	36.96	43.22	68.20	-24.98	HORIZONTAL	Peak
4	4329.354	47.96	30.54	4.67	36.81	46.36	74.00	-27.64	HORIZONTAL	Peak
5	10520.000	40.99	39.50	7.42	37.35	50.56	68.20	-17.64	HORIZONTAL	Peak
6	15780.000	38.32	38.70	9.86	35.39	51.49	74.00	-22.51	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



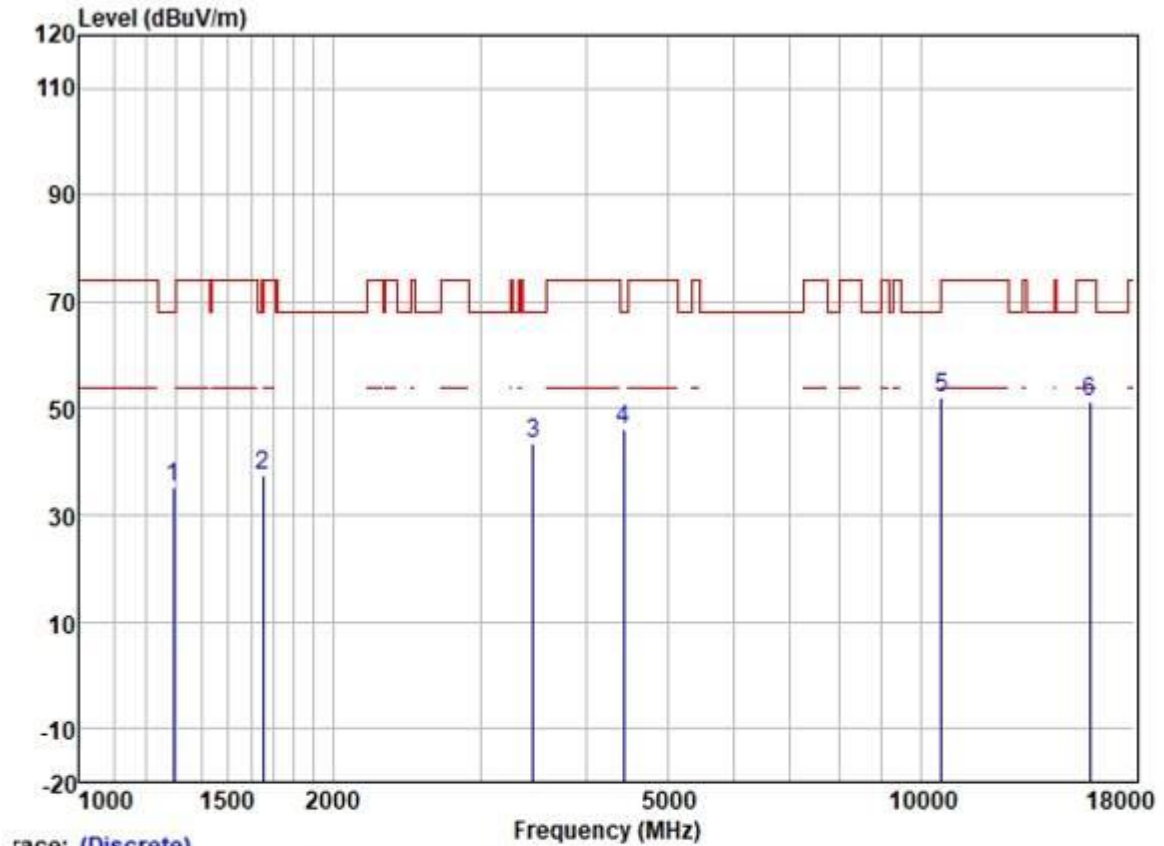
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	46.94	25.20	2.60	38.31	36.43	74.00	-37.57	VERTICAL	Peak
2	1520.598	48.40	25.51	2.80	38.07	38.64	74.00	-35.36	VERTICAL	Peak
3	3386.297	47.65	28.83	4.10	36.99	43.59	68.20	-24.61	VERTICAL	Peak
4	4405.090	47.03	30.68	4.70	36.81	45.60	68.20	-22.60	VERTICAL	Peak
5	10520.000	40.36	39.50	7.42	37.35	49.93	68.20	-18.27	VERTICAL	Peak
6	15780.000	38.39	38.70	9.86	35.39	51.56	74.00	-22.44	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: middle



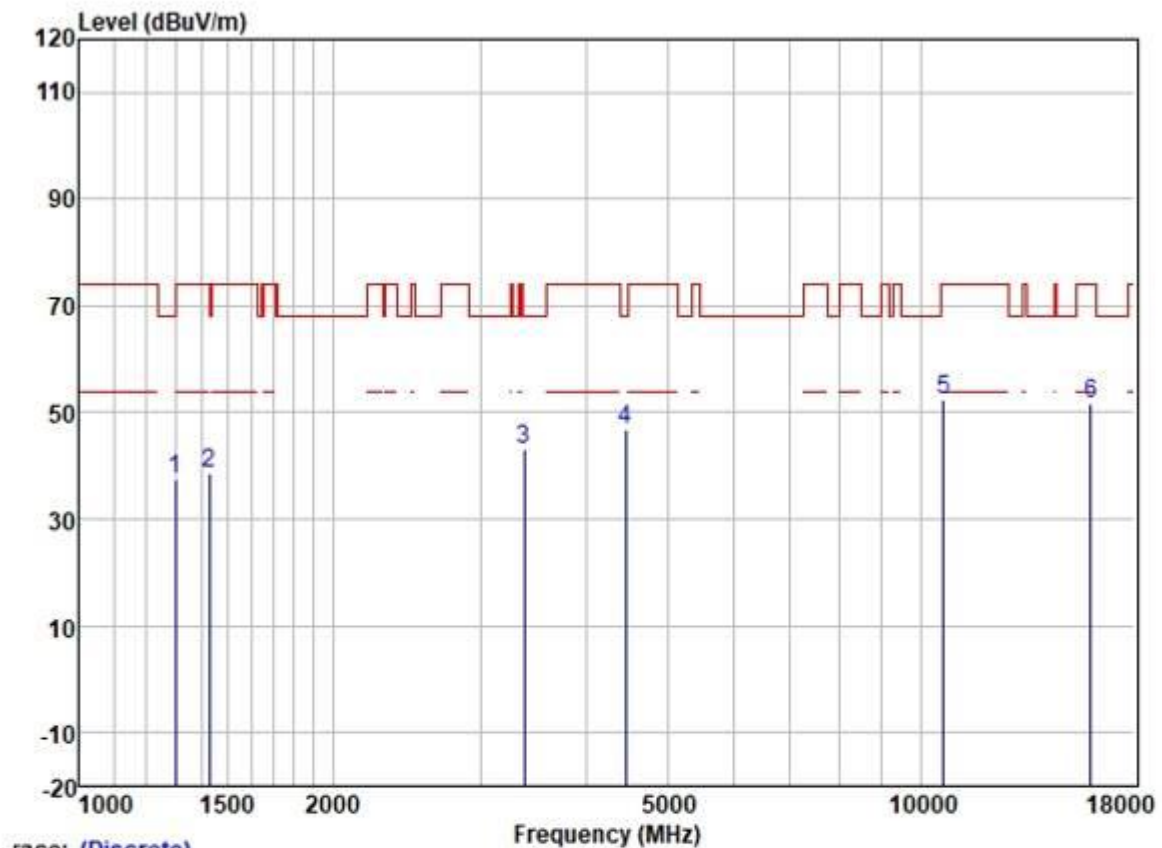
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1252.885	47.24	25.03	2.36	38.35	36.28	68.20	-31.92	HORIZONTAL	Peak
2	1422.798	48.77	25.42	2.64	38.20	38.63	74.00	-35.37	HORIZONTAL	Peak
3	3465.510	47.27	28.88	4.22	36.95	43.42	68.20	-24.78	HORIZONTAL	Peak
4	4405.090	48.95	30.68	4.70	36.81	47.52	68.20	-20.68	HORIZONTAL	Peak
5	10600.000	41.99	39.59	7.46	37.34	51.70	68.20	-16.50	HORIZONTAL	Peak
6	15900.000	38.97	38.44	9.86	35.40	51.87	74.00	-22.13	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



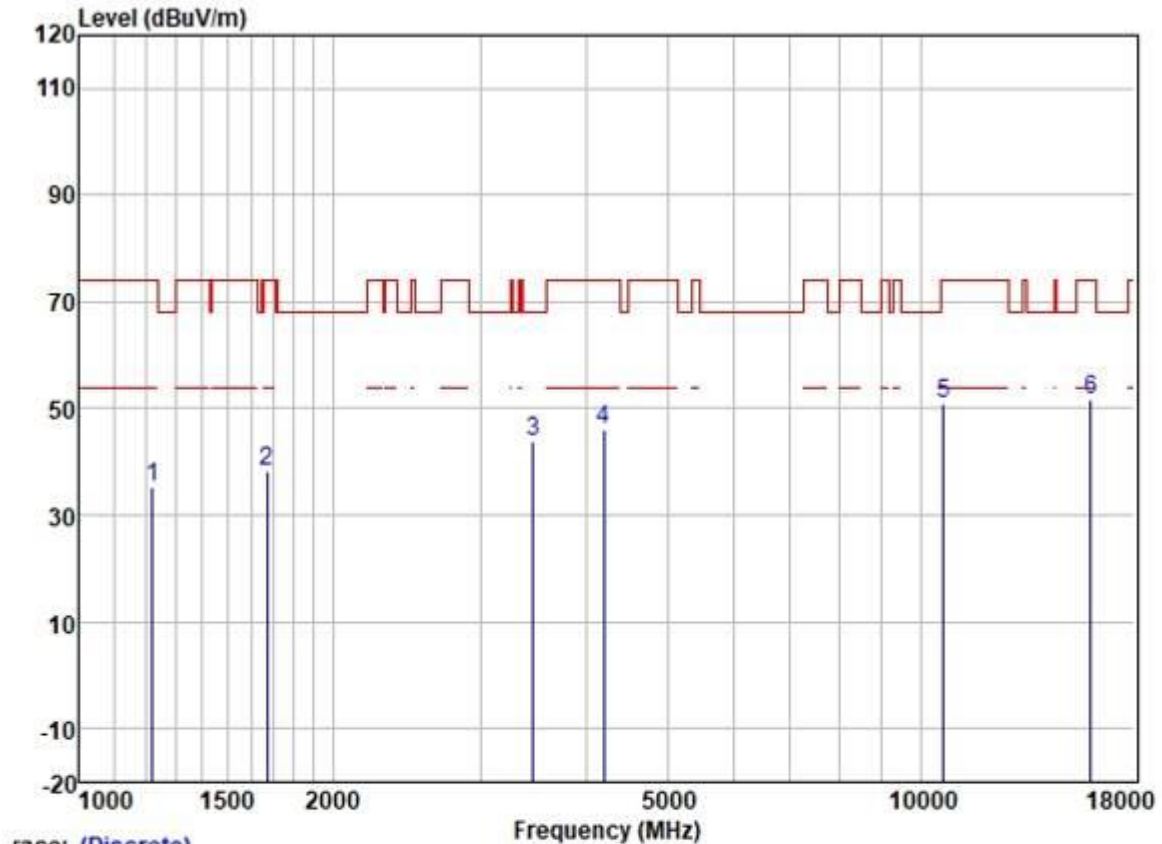
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1293.359	45.83	25.18	2.57	38.31	35.27	68.20	-32.93	VERTICAL	Peak
2	1653.550	47.16	25.64	2.80	37.93	37.67	68.20	-30.53	VERTICAL	Peak
3	3465.510	47.47	28.88	4.22	36.95	43.62	68.20	-24.58	VERTICAL	Peak
4	4443.453	47.35	30.73	4.83	36.81	46.10	68.20	-22.10	VERTICAL	Peak
5	10600.000	42.35	39.59	7.46	37.34	52.06	68.20	-16.14	VERTICAL	Peak
6	15900.000	38.33	38.44	9.86	35.40	51.23	74.00	-22.77	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



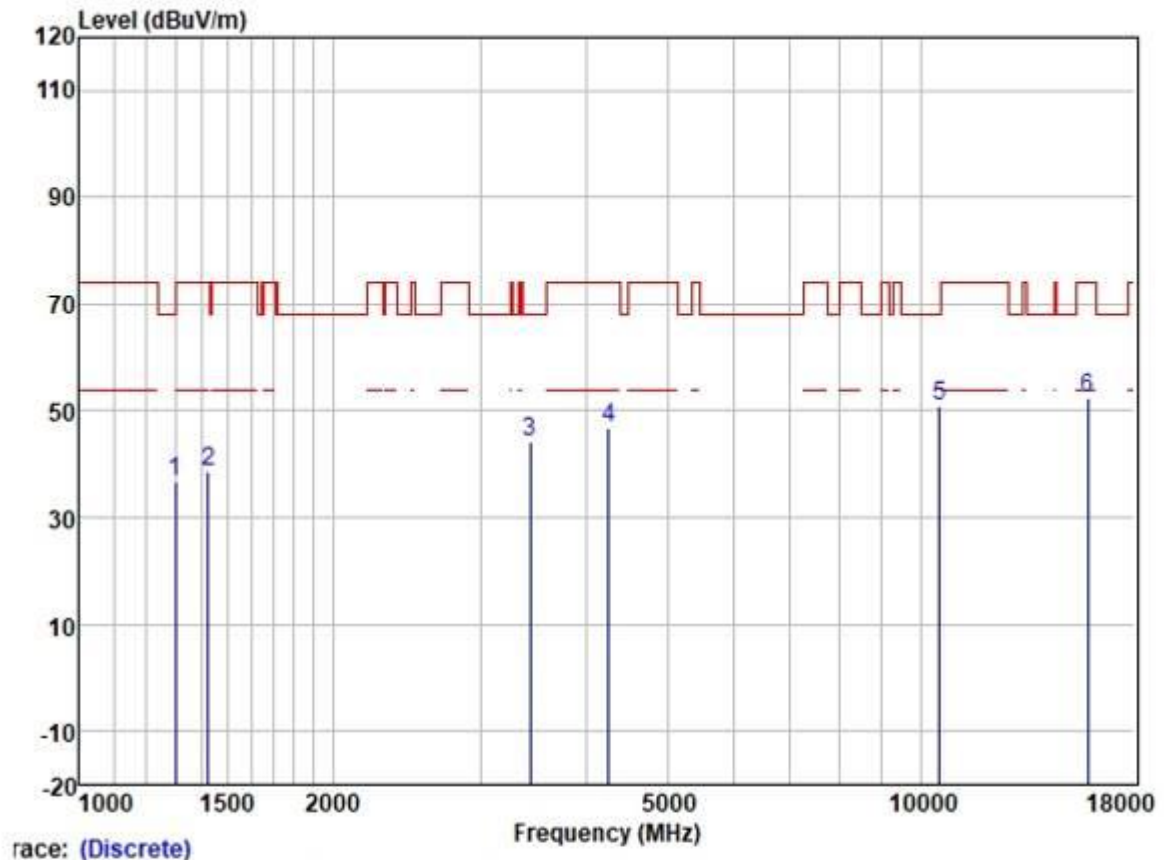
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1300.858	48.15	25.20	2.60	38.31	37.64	74.00	-36.36	HORIZONTAL Peak
2	1426.916	48.91	25.43	2.65	38.20	38.79	74.00	-35.21	HORIZONTAL Peak
3	3376.523	47.30	28.83	4.09	36.99	43.23	68.20	-24.97	HORIZONTAL Peak
4	4456.315	48.03	30.75	4.88	36.81	46.85	68.20	-21.35	HORIZONTAL Peak
5	10640.000	42.55	39.63	7.48	37.33	52.33	74.00	-21.67	HORIZONTAL Peak
6	15960.000	38.70	38.37	9.85	35.40	51.52	74.00	-22.48	HORIZONTAL Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



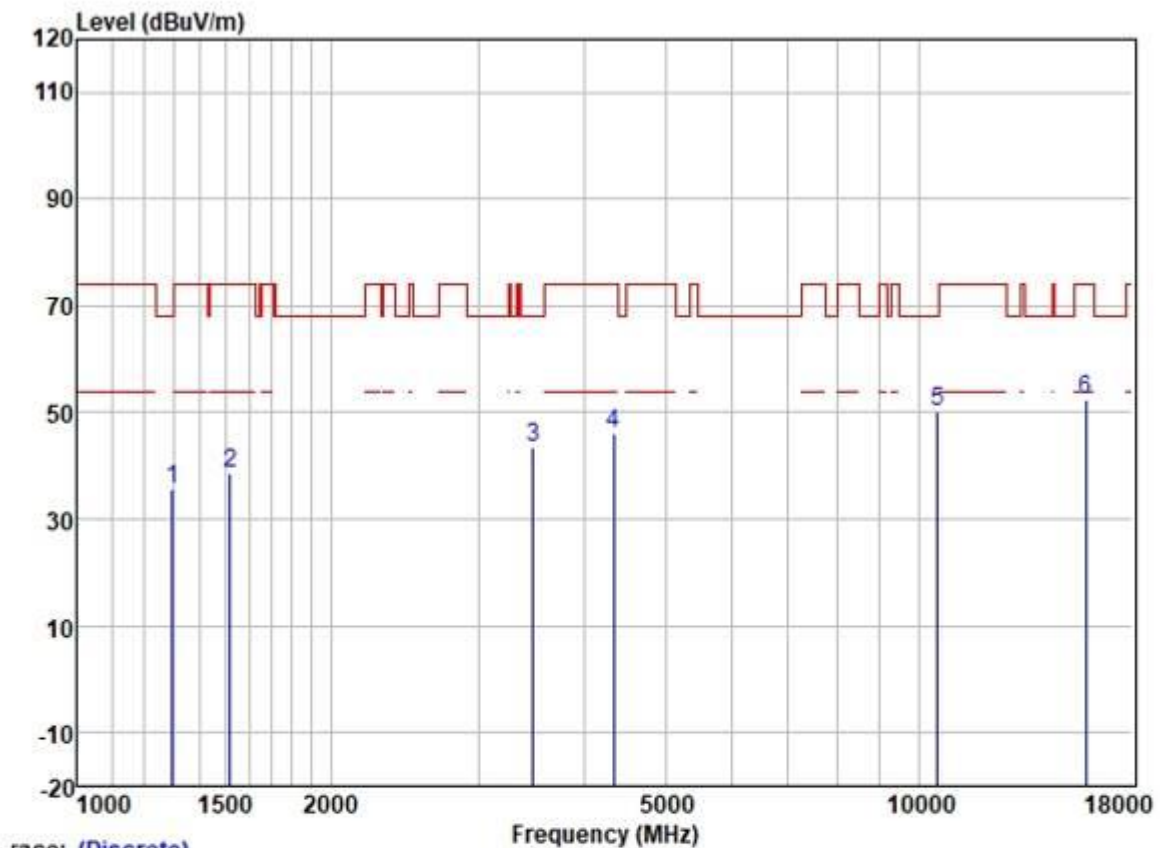
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1220.714	46.31	24.82	2.32	38.37	35.08	74.00	-38.92	VERTICAL	Peak
2	1672.779	47.77	25.67	2.80	37.91	38.33	74.00	-35.67	VERTICAL	Peak
3	3465.510	47.62	28.88	4.22	36.95	43.77	68.20	-24.43	VERTICAL	Peak
4	4206.011	47.96	30.18	4.60	36.81	45.93	74.00	-28.07	VERTICAL	Peak
5	10640.000	41.24	39.63	7.48	37.33	51.02	74.00	-22.98	VERTICAL	Peak
6	15960.000	38.73	38.37	9.85	35.40	51.55	74.00	-22.45	VERTICAL	Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



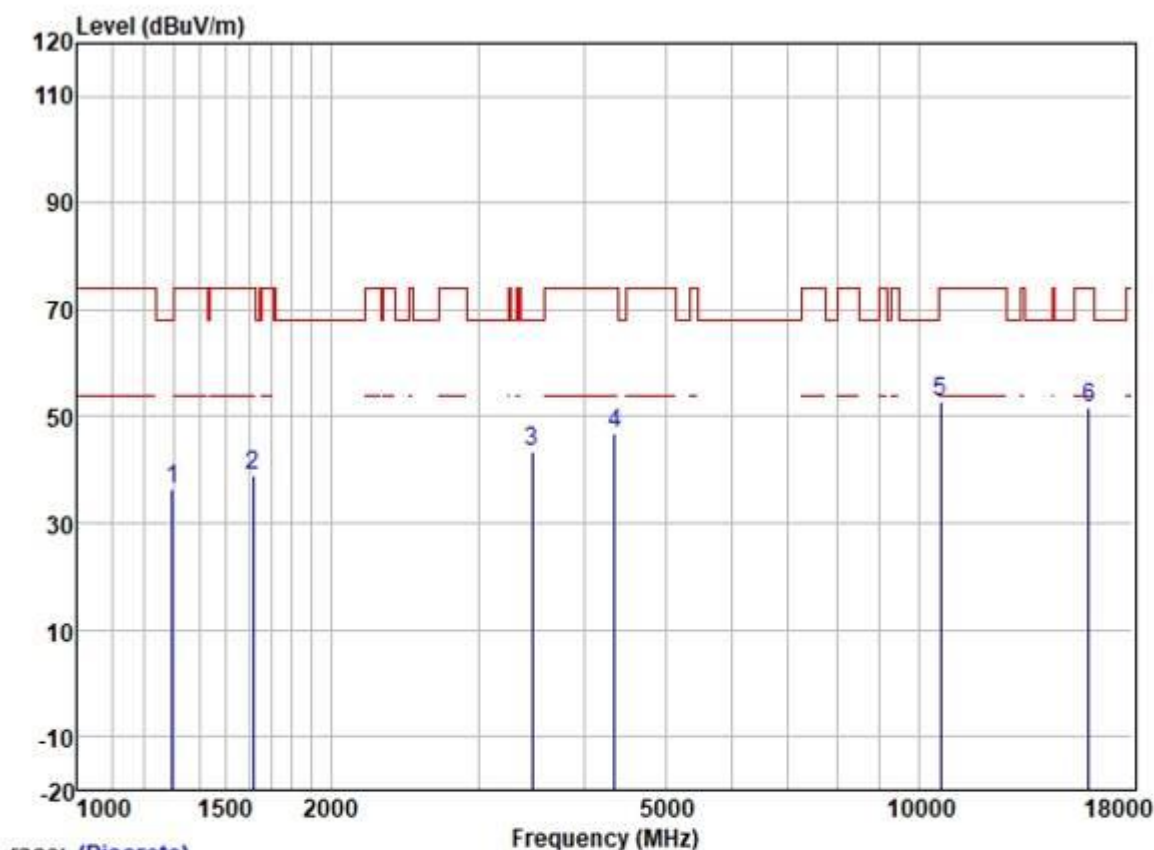
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	47.13	25.20	2.60	38.31	36.62	74.00	-37.38	HORIZONTAL	Peak
2	1422.798	48.92	25.42	2.64	38.20	38.78	74.00	-35.22	HORIZONTAL	Peak
3	3435.590	48.06	28.87	4.16	36.97	44.12	68.20	-24.08	HORIZONTAL	Peak
4	4254.921	48.85	30.34	4.62	36.81	47.00	74.00	-27.00	HORIZONTAL	Peak
5	10540.000	41.43	39.53	7.43	37.35	51.04	68.20	-17.16	HORIZONTAL	Peak
6	15810.000	39.26	38.61	9.86	35.39	52.34	74.00	-21.66	HORIZONTAL	Peak

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



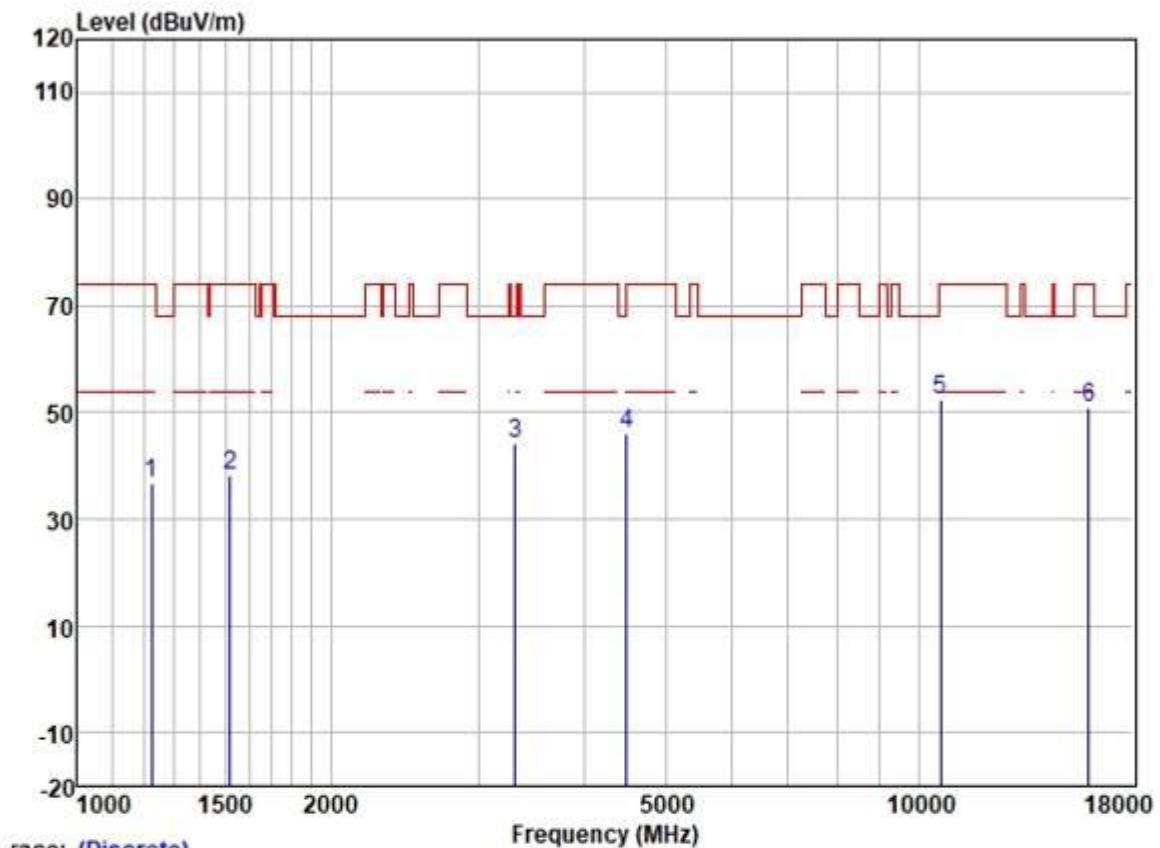
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.06	25.19	2.58	38.31	35.52	68.20	-32.68	VERTICAL Peak
2	1520.598	48.31	25.51	2.80	38.07	38.55	74.00	-35.45	VERTICAL Peak
3	3485.601	47.14	28.89	4.27	36.95	43.35	68.20	-24.85	VERTICAL Peak
4	4341.886	47.61	30.57	4.67	36.81	46.04	74.00	-27.96	VERTICAL Peak
5	10540.000	40.47	39.53	7.43	37.35	50.08	68.20	-18.12	VERTICAL Peak
6	15810.000	39.39	38.61	9.86	35.39	52.47	74.00	-21.53	VERTICAL Peak

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



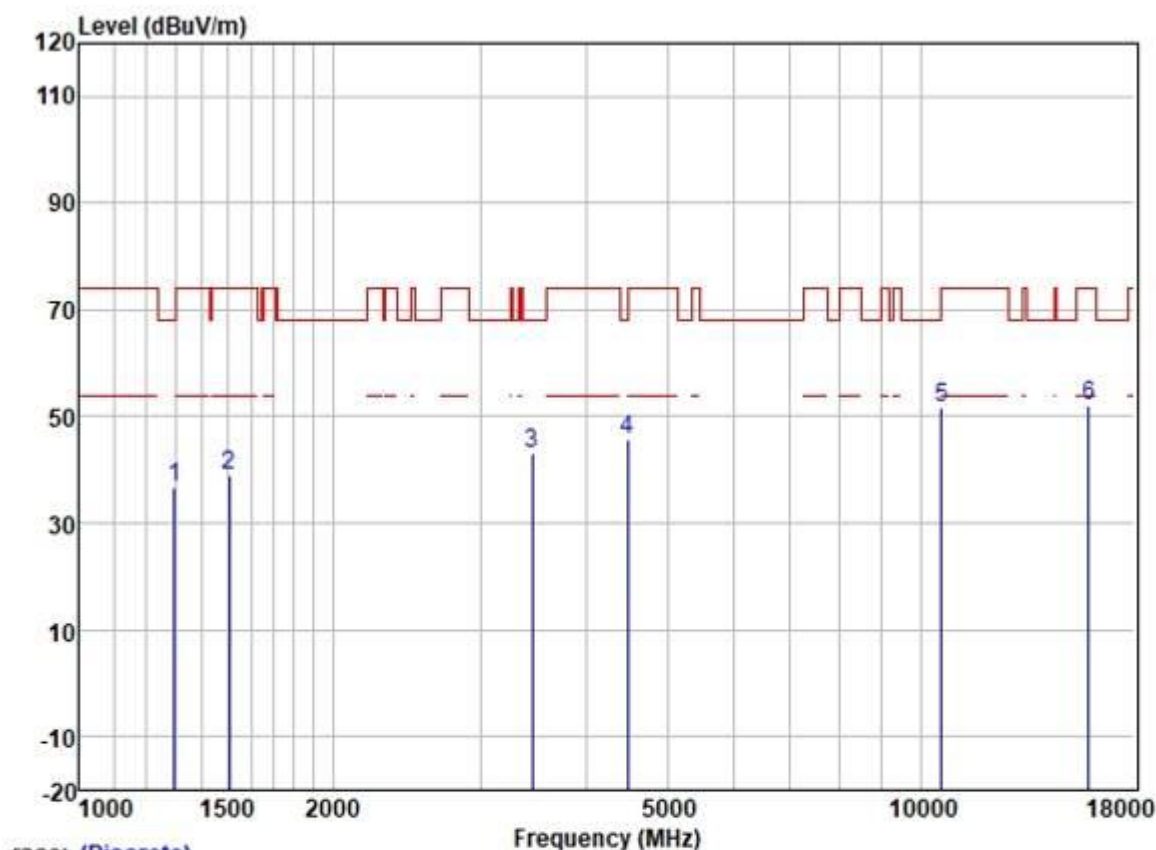
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.84	25.19	2.58	38.31	36.30	68.20	-31.90	HORIZONTAL Peak
2	1615.754	48.38	25.60	2.80	37.95	38.83	74.00	-35.17	HORIZONTAL Peak
3	3475.541	47.46	28.89	4.25	36.95	43.65	68.20	-24.55	HORIZONTAL Peak
4	4354.454	48.33	30.59	4.68	36.81	46.79	74.00	-27.21	HORIZONTAL Peak
5	10620.000	43.03	39.59	7.46	37.34	52.74	74.00	-21.26	HORIZONTAL Peak
6	15930.000	38.93	38.37	9.85	35.40	51.75	74.00	-22.25	HORIZONTAL Peak

Test Mode: 15; 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	1224.247	48.05	24.85	2.31	38.37	36.84	74.00	-37.16	VERTICAL Peak
2	1520.598	48.05	25.51	2.80	38.07	38.29	74.00	-35.71	VERTICAL Peak
3	3318.471	48.38	28.77	4.07	37.02	44.20	68.20	-24.00	VERTICAL Peak
4	4495.125	47.09	30.80	5.05	36.82	46.12	68.20	-22.08	VERTICAL Peak
5	10620.000	42.66	39.59	7.46	37.34	52.37	74.00	-21.63	VERTICAL Peak
6	15930.000	37.94	38.37	9.85	35.40	50.76	74.00	-23.24	VERTICAL Peak

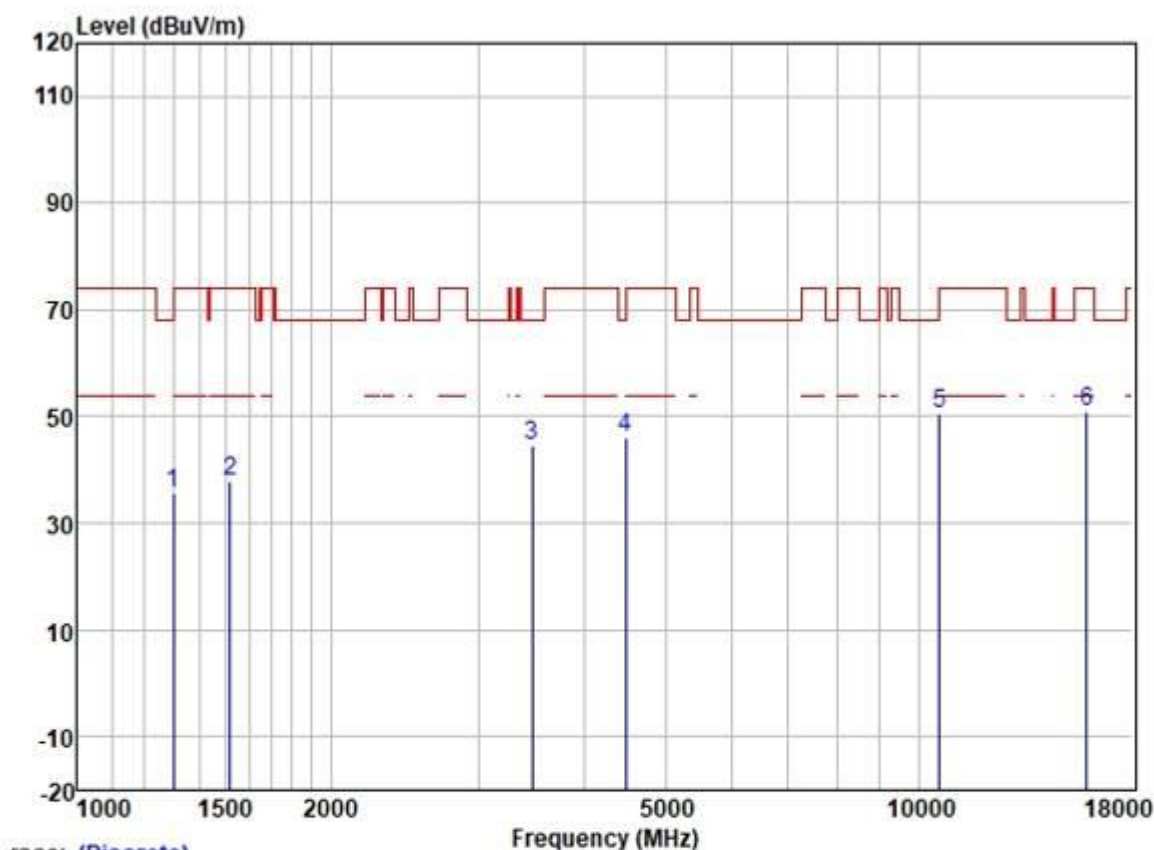
Test Mode: 15; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



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	1297.103	47.47	25.19	2.58	38.31	36.93	68.20	-31.27	HORIZONTAL Peak
2	1507.470	48.66	25.51	2.80	38.10	38.87	74.00	-35.13	HORIZONTAL Peak
3	3455.508	47.07	28.88	4.20	36.96	43.19	68.20	-25.01	HORIZONTAL Peak
4	4482.150	46.86	30.78	4.99	36.81	45.82	68.20	-22.38	HORIZONTAL Peak
5	10580.000	41.94	39.56	7.45	37.34	51.61	68.20	-16.59	HORIZONTAL Peak
6	15870.000	39.24	38.52	9.86	35.40	52.22	74.00	-21.78	HORIZONTAL Peak

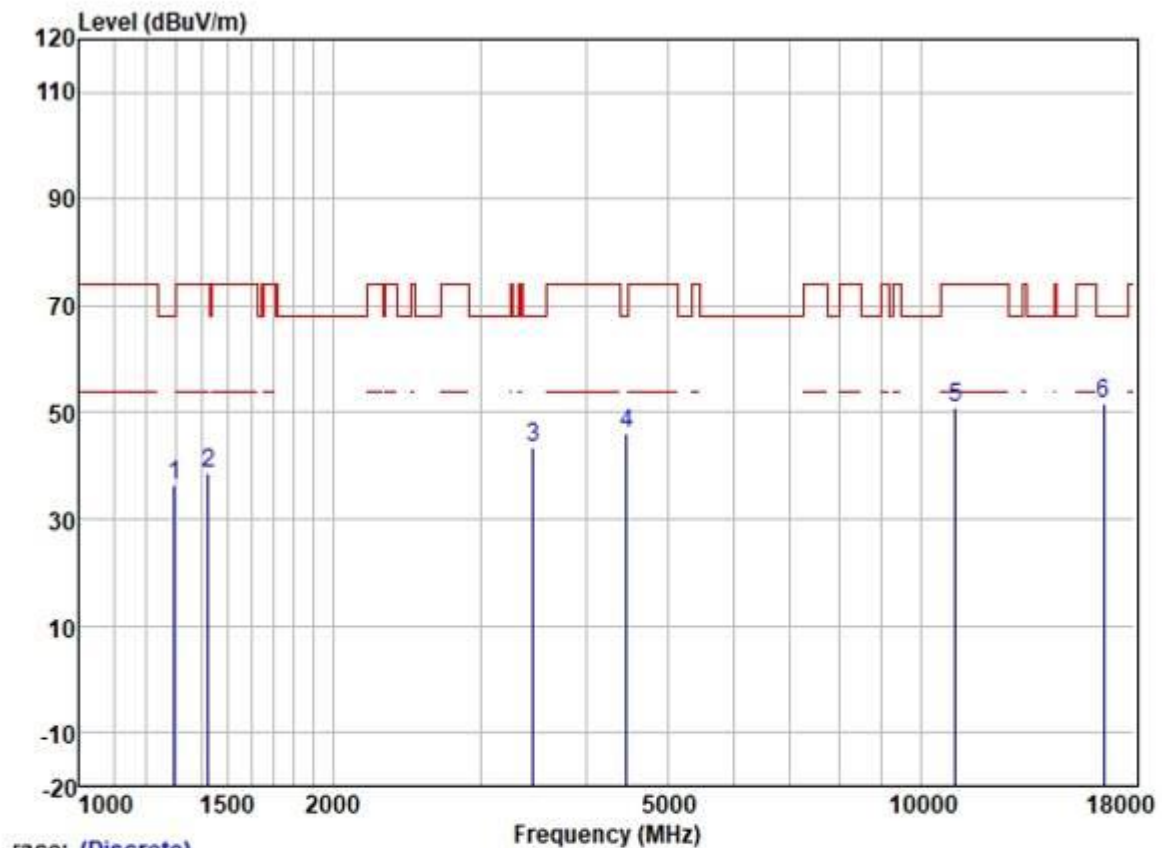
Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

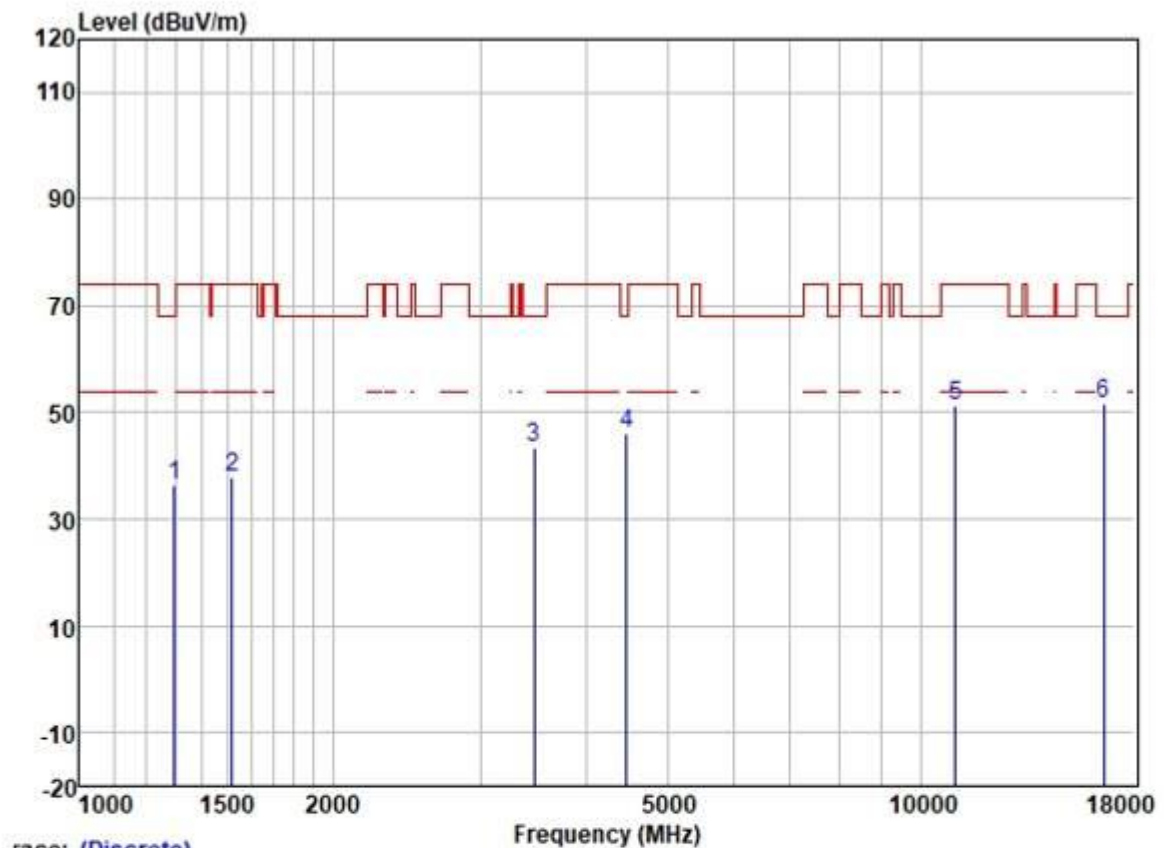
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1300.858	46.32	25.20	2.60	38.31	35.81	74.00	-38.19	VERTICAL Peak
2	1520.598	47.65	25.51	2.80	38.07	37.89	74.00	-36.11	VERTICAL Peak
3	3475.541	48.25	28.89	4.25	36.95	44.44	68.20	-23.76	VERTICAL Peak
4	4482.150	47.22	30.78	4.99	36.81	46.18	68.20	-22.02	VERTICAL Peak
5	10580.000	40.84	39.56	7.45	37.34	50.51	68.20	-17.69	VERTICAL Peak
6	15870.000	37.91	38.52	9.86	35.40	50.89	74.00	-23.11	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



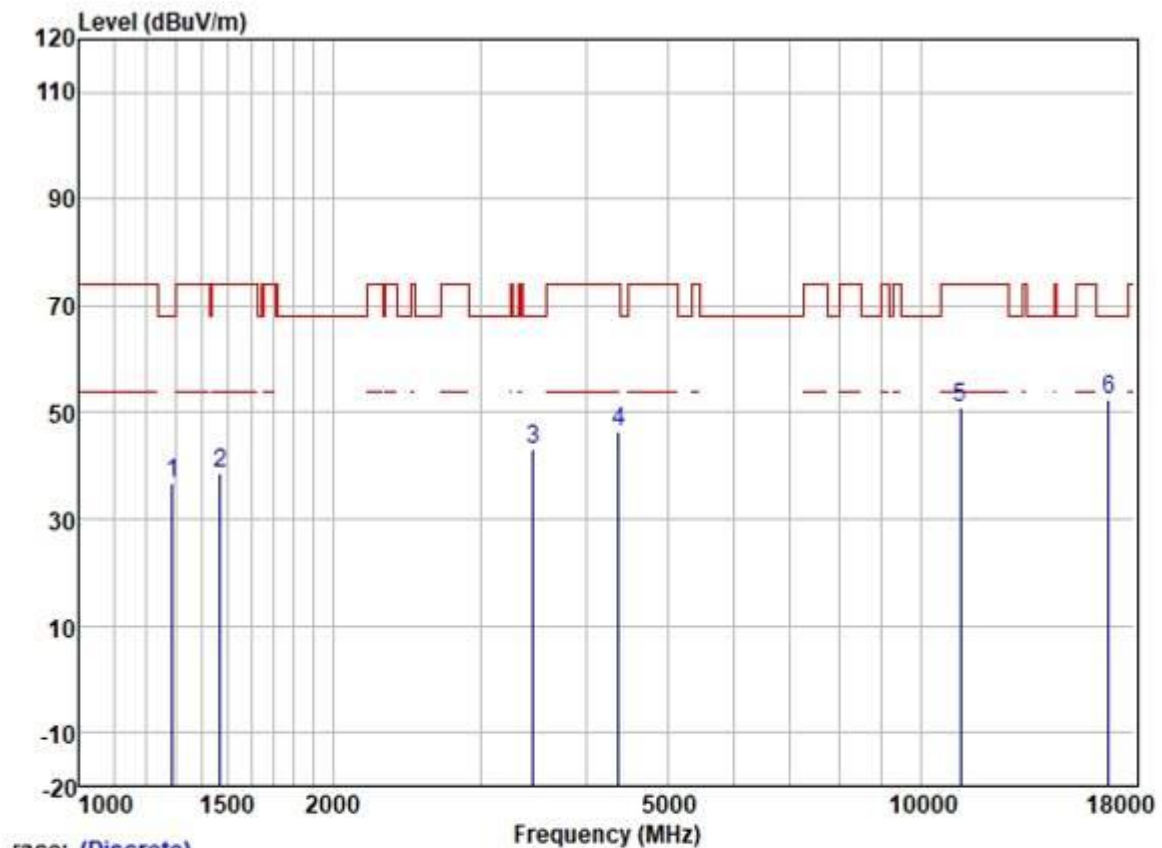
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	47.09	25.19	2.58	38.31	36.55	68.20	-31.65	HORIZONTAL Peak
2	1422.798	48.72	25.42	2.64	38.20	38.58	74.00	-35.42	HORIZONTAL Peak
3	3465.510	47.14	28.88	4.22	36.95	43.29	68.20	-24.91	HORIZONTAL Peak
4	4469.214	47.05	30.77	4.93	36.81	45.94	68.20	-22.26	HORIZONTAL Peak
5	11000.000	40.22	40.10	7.71	37.25	50.78	74.00	-23.22	HORIZONTAL Peak
6	16500.000	37.96	39.60	9.44	35.38	51.62	68.20	-16.58	HORIZONTAL Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



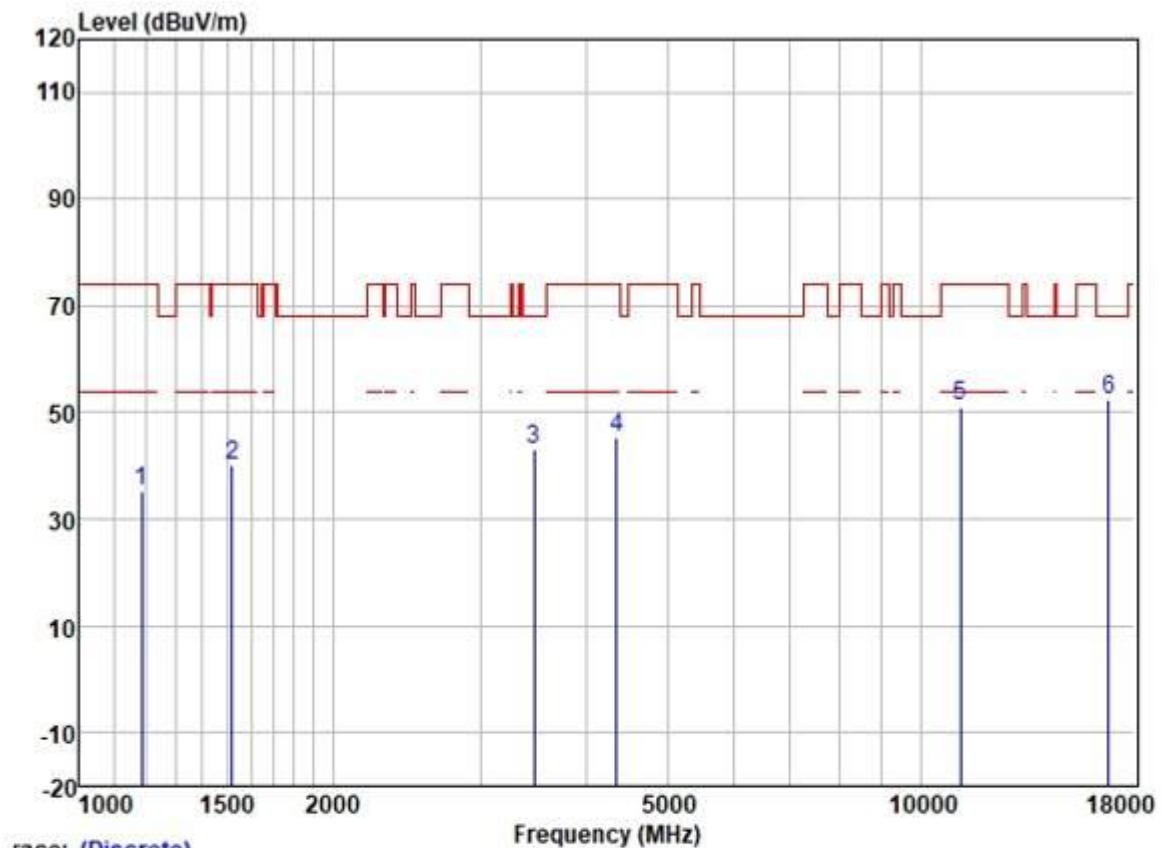
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.77	25.19	2.58	38.31	36.23	68.20	-31.97	VERTICAL Peak
2	1520.598	47.66	25.51	2.80	38.07	37.90	74.00	-36.10	VERTICAL Peak
3	3475.541	47.19	28.89	4.25	36.95	43.38	68.20	-24.82	VERTICAL Peak
4	4469.214	47.28	30.77	4.93	36.81	46.17	68.20	-22.03	VERTICAL Peak
5	11000.000	40.84	40.10	7.71	37.25	51.40	74.00	-22.60	VERTICAL Peak
6	16500.000	38.09	39.60	9.44	35.38	51.75	68.20	-16.45	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



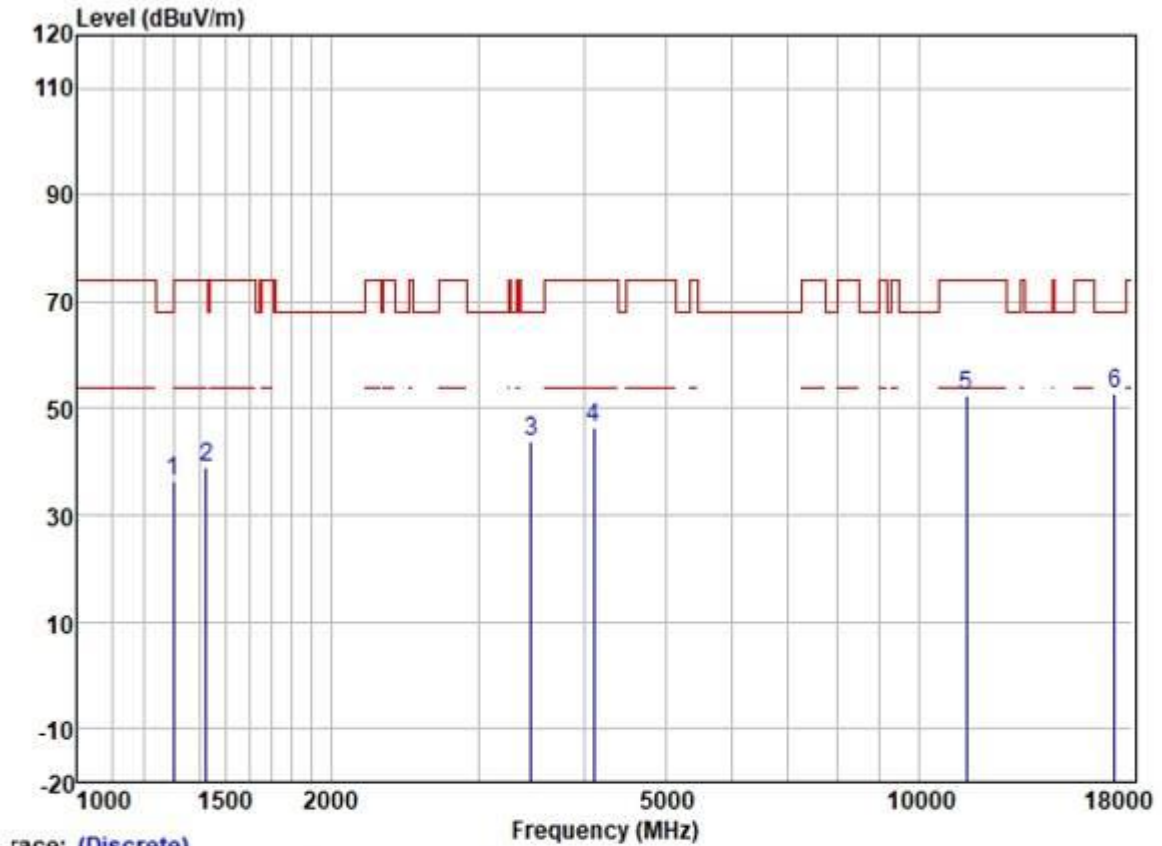
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	47.48	25.17	2.55	38.31	36.89	68.20	-31.31	HORIZONTAL	Peak
2	1468.761	48.59	25.47	2.75	38.13	38.68	74.00	-35.32	HORIZONTAL	Peak
3	3465.510	47.00	28.88	4.22	36.95	43.15	68.20	-25.05	HORIZONTAL	Peak
4	4379.699	47.82	30.64	4.69	36.81	46.34	74.00	-27.66	HORIZONTAL	Peak
5	11160.000	40.04	40.04	7.90	37.21	50.77	74.00	-23.23	HORIZONTAL	Peak
6	16740.000	38.01	40.49	9.41	35.37	52.54	68.20	-15.66	HORIZONTAL	Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



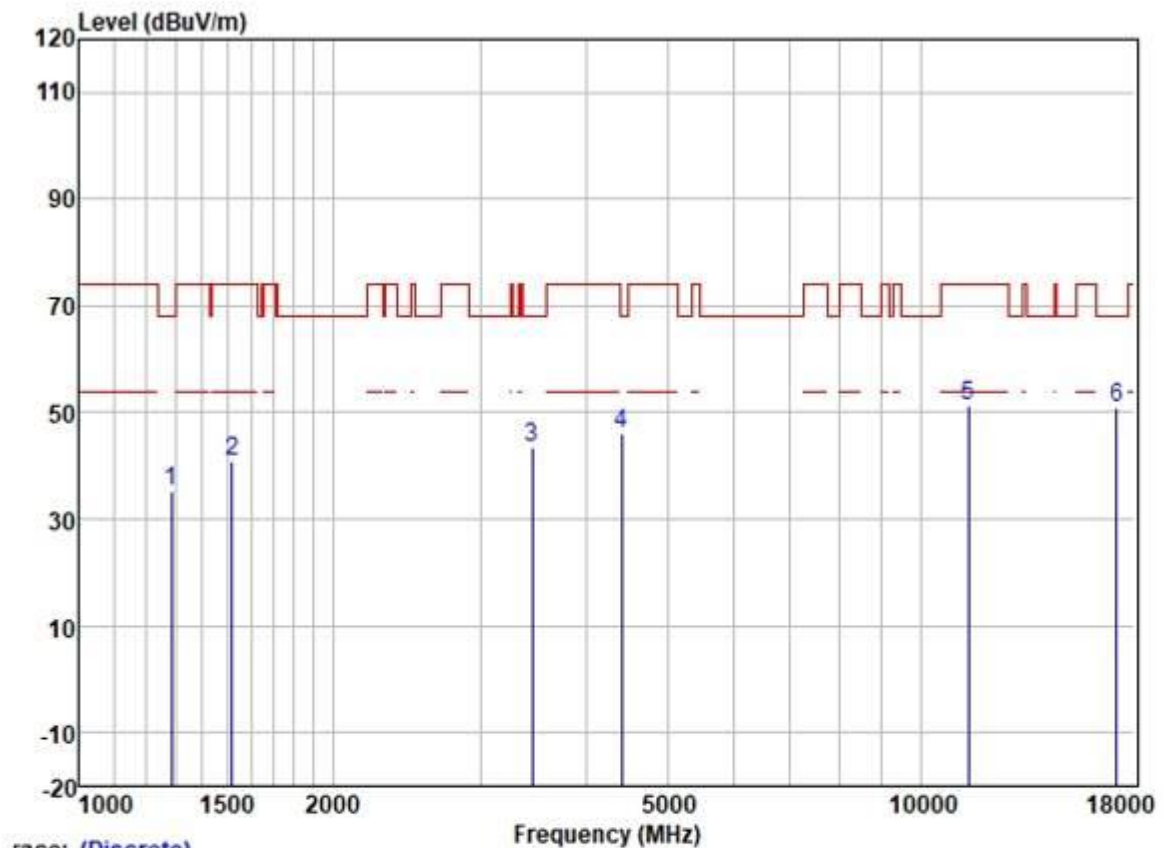
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1185.936	46.62	24.62	2.37	38.40	35.21	74.00	-38.79	VERTICAL Peak
2	1520.598	49.71	25.51	2.80	38.07	39.95	74.00	-34.05	VERTICAL Peak
3	3475.541	46.79	28.89	4.25	36.95	42.98	68.20	-25.22	VERTICAL Peak
4	4354.454	47.05	30.59	4.68	36.81	45.51	74.00	-28.49	VERTICAL Peak
5	11160.000	40.39	40.04	7.90	37.21	51.12	74.00	-22.88	VERTICAL Peak
6	16740.000	37.72	40.49	9.41	35.37	52.25	68.20	-15.95	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



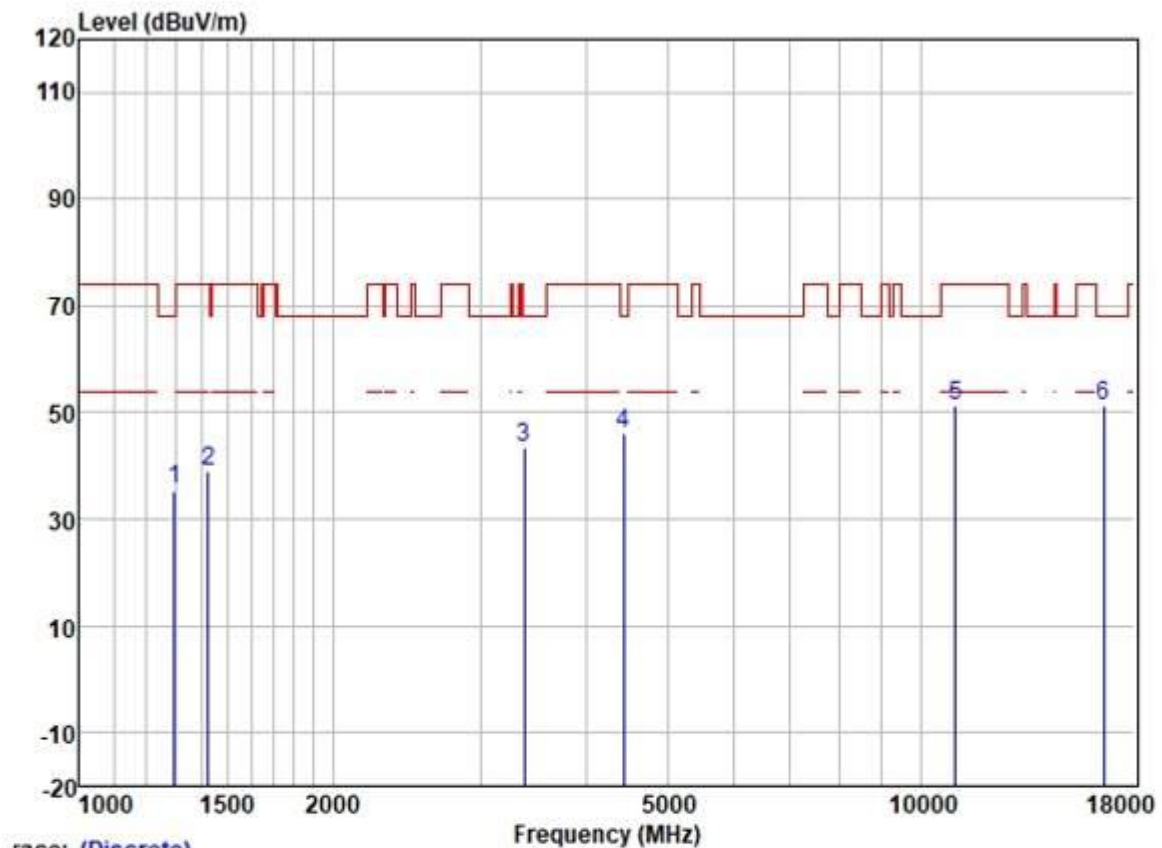
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	46.91	25.20	2.60	38.31	36.40	74.00	-37.60	HORIZONTAL	Peak
2	1422.798	49.18	25.42	2.64	38.20	39.04	74.00	-34.96	HORIZONTAL	Peak
3	3465.510	47.59	28.88	4.22	36.95	43.74	68.20	-24.46	HORIZONTAL	Peak
4	4109.872	48.81	29.96	4.60	36.80	46.57	74.00	-27.43	HORIZONTAL	Peak
5	11400.000	41.53	39.94	8.28	37.16	52.59	74.00	-21.41	HORIZONTAL	Peak
6	17100.000	36.08	42.32	9.63	35.34	52.69	68.20	-15.51	HORIZONTAL	Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



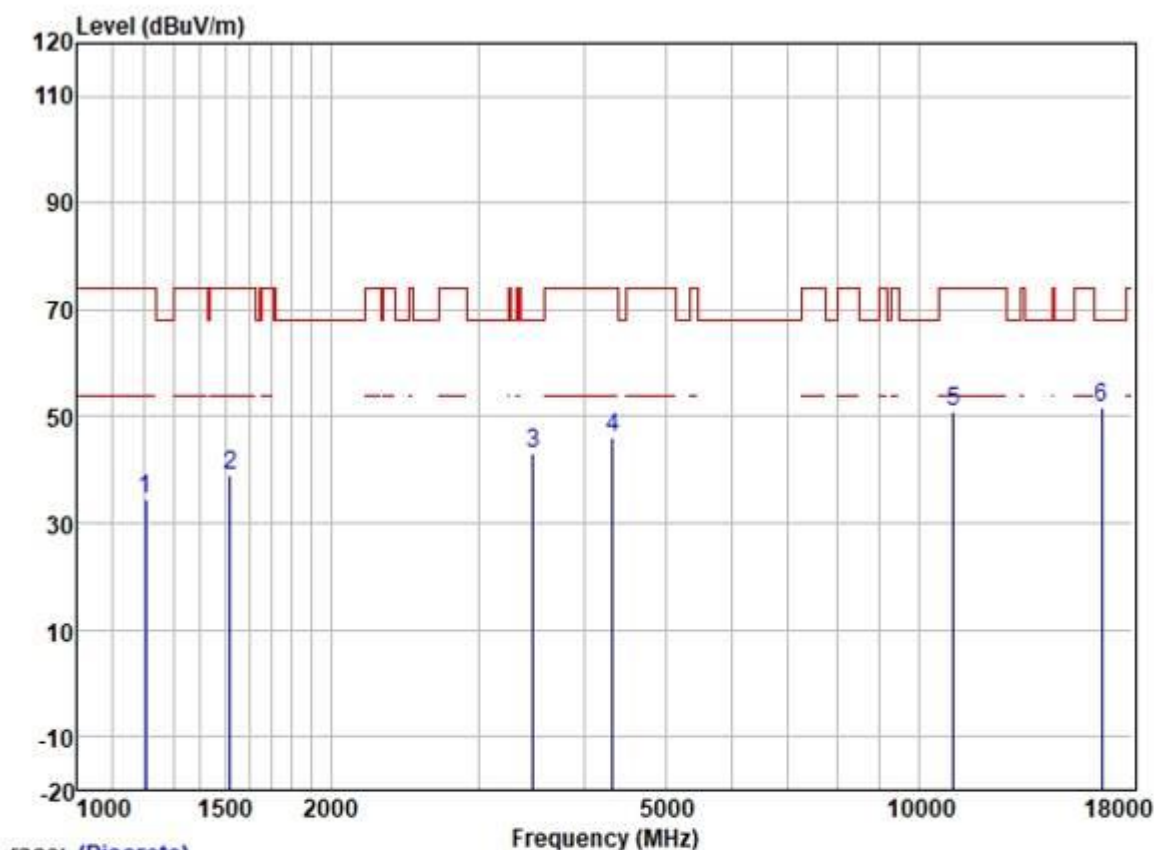
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1285.904	45.97	25.16	2.53	38.33	35.33	68.20	-32.87	VERTICAL Peak
2	1520.598	50.63	25.51	2.80	38.07	40.87	74.00	-33.13	VERTICAL Peak
3	3455.508	47.24	28.88	4.20	36.96	43.36	68.20	-24.84	VERTICAL Peak
4	4417.841	47.34	30.70	4.74	36.81	45.97	68.20	-22.23	VERTICAL Peak
5	11400.000	40.40	39.94	8.28	37.16	51.46	74.00	-22.54	VERTICAL Peak
6	17100.000	34.38	42.32	9.63	35.34	50.99	68.20	-17.21	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



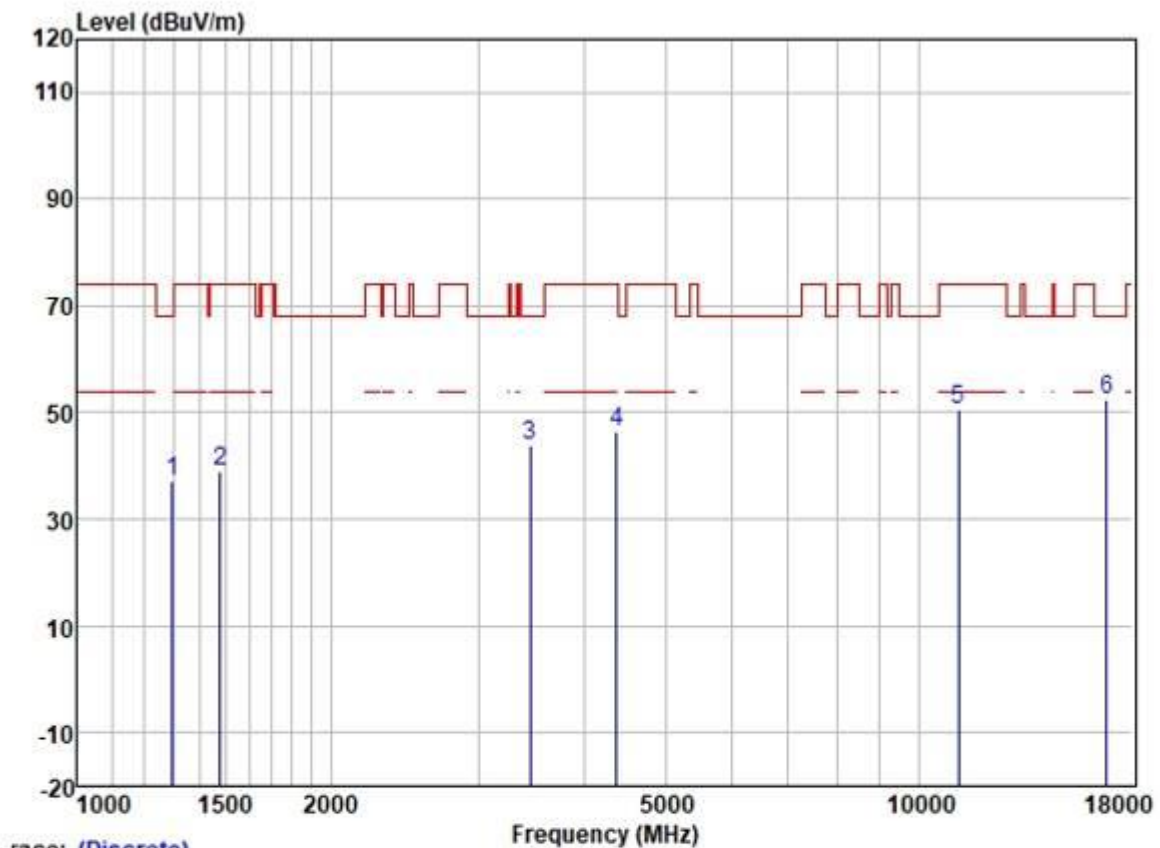
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	45.98	25.19	2.58	38.31	35.44	68.20	-32.76	HORIZONTAL Peak
2	1422.798	49.08	25.42	2.64	38.20	38.94	74.00	-35.06	HORIZONTAL Peak
3	3376.523	47.65	28.83	4.09	36.99	43.58	68.20	-24.62	HORIZONTAL Peak
4	4443.453	47.17	30.73	4.83	36.81	45.92	68.20	-22.28	HORIZONTAL Peak
5	11000.000	40.74	40.10	7.71	37.25	51.30	74.00	-22.70	HORIZONTAL Peak
6	16500.000	37.80	39.60	9.44	35.38	51.46	68.20	-16.74	HORIZONTAL Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



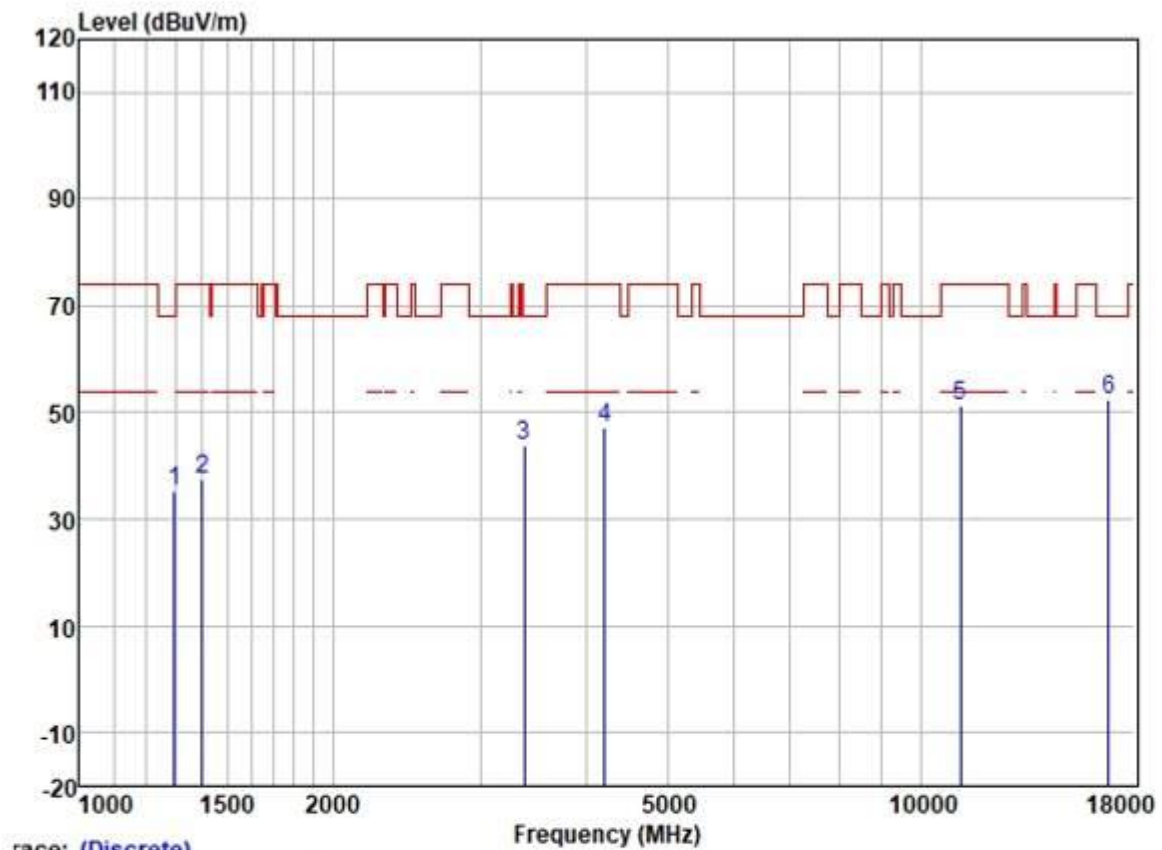
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1206.682	45.96	24.72	2.33	38.39	34.62	74.00	-39.38	VERTICAL Peak
2	1520.598	48.80	25.51	2.80	38.07	39.04	74.00	-34.96	VERTICAL Peak
3	3485.601	47.04	28.89	4.27	36.95	43.25	68.20	-24.95	VERTICAL Peak
4	4329.354	47.69	30.54	4.67	36.81	46.09	74.00	-27.91	VERTICAL Peak
5	11000.000	40.41	40.10	7.71	37.25	50.97	74.00	-23.03	VERTICAL Peak
6	16500.000	37.87	39.60	9.44	35.38	51.53	68.20	-16.67	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



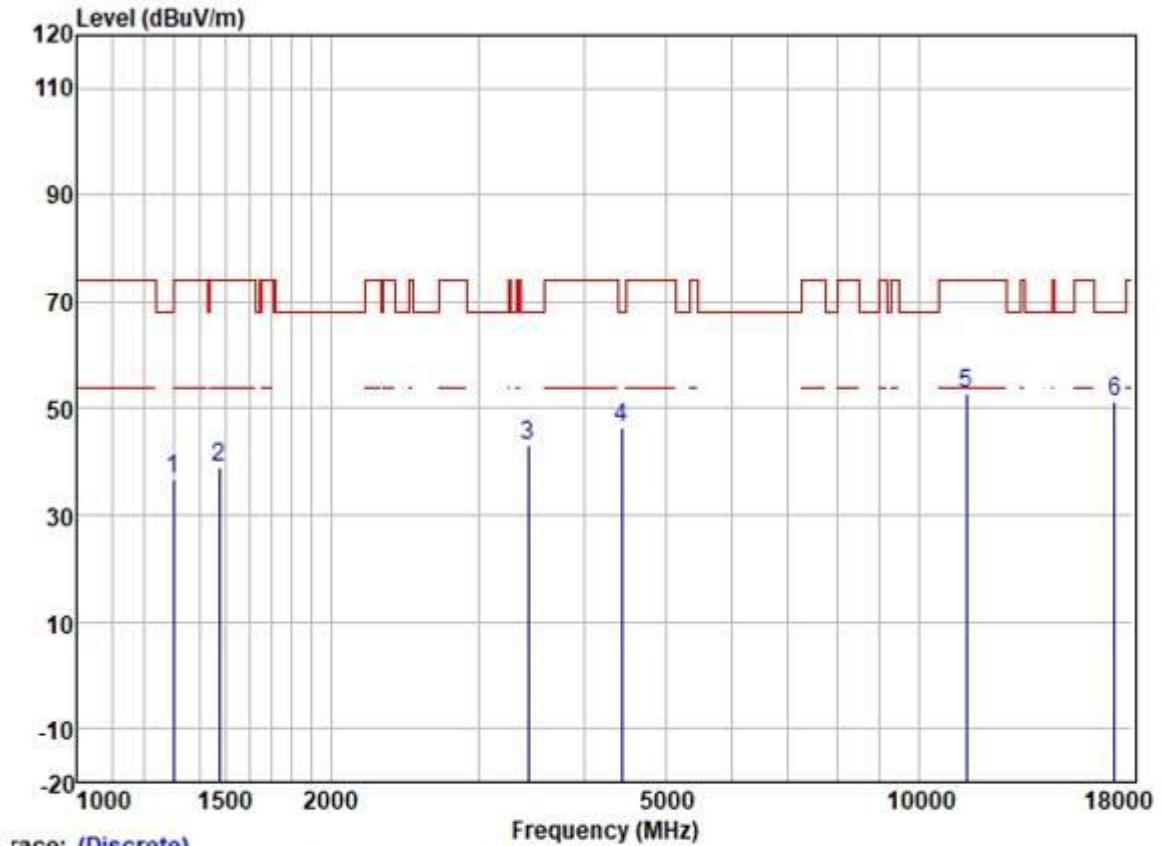
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	47.82	25.19	2.58	38.31	37.28	68.20	-30.92	HORIZONTAL Peak
2	1477.276	48.87	25.48	2.77	38.13	38.99	74.00	-35.01	HORIZONTAL Peak
3	3455.508	47.66	28.88	4.20	36.96	43.78	68.20	-24.42	HORIZONTAL Peak
4	4379.699	48.00	30.64	4.69	36.81	46.52	74.00	-27.48	HORIZONTAL Peak
5	11160.000	39.75	40.04	7.90	37.21	50.48	74.00	-23.52	HORIZONTAL Peak
6	16740.000	37.90	40.49	9.41	35.37	52.43	68.20	-15.77	HORIZONTAL Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; 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	1297.103	45.63	25.19	2.58	38.31	35.09	68.20	-33.11	VERTICAL Peak
2	1398.336	47.88	25.39	2.60	38.22	37.65	74.00	-36.35	VERTICAL Peak
3	3376.523	47.90	28.83	4.09	36.99	43.83	68.20	-24.37	VERTICAL Peak
4	4218.186	49.02	30.22	4.60	36.81	47.03	74.00	-26.97	VERTICAL Peak
5	11160.000	40.57	40.04	7.90	37.21	51.30	74.00	-22.70	VERTICAL Peak
6	16740.000	38.02	40.49	9.41	35.37	52.55	68.20	-15.65	VERTICAL Peak

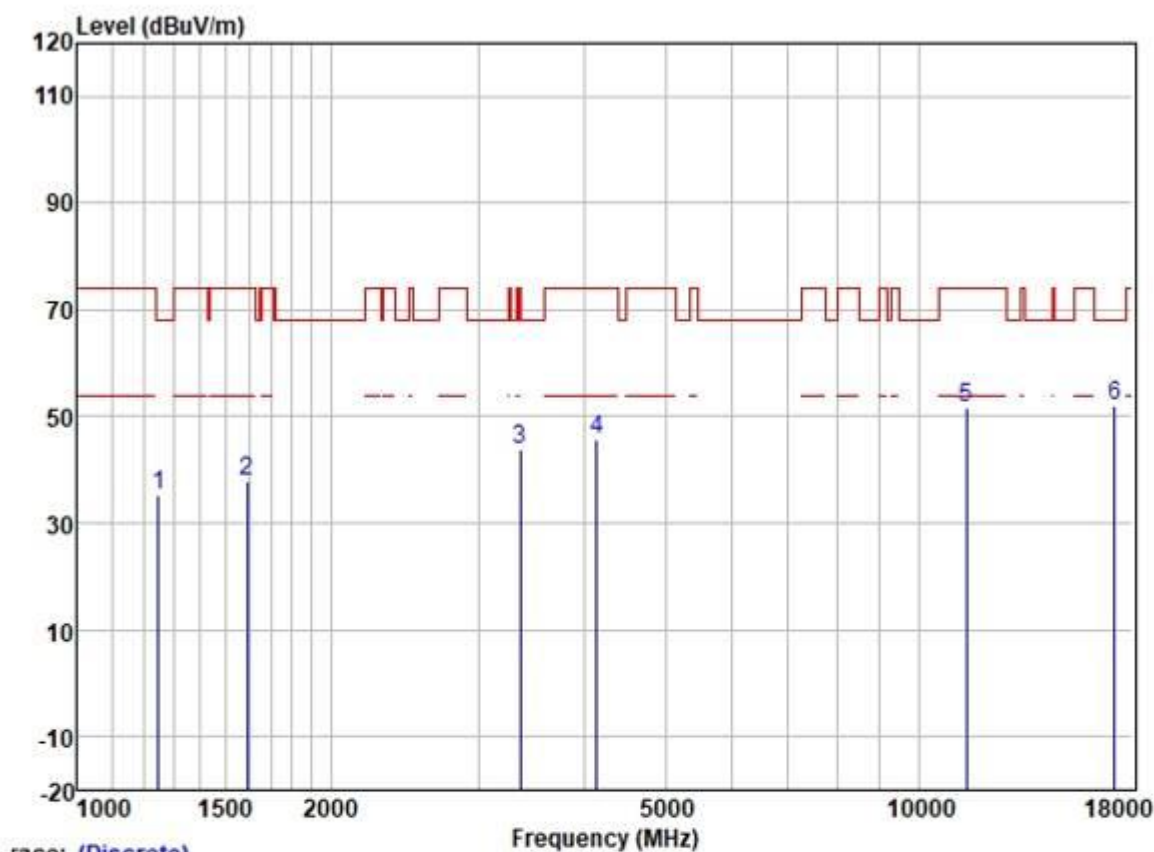
Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

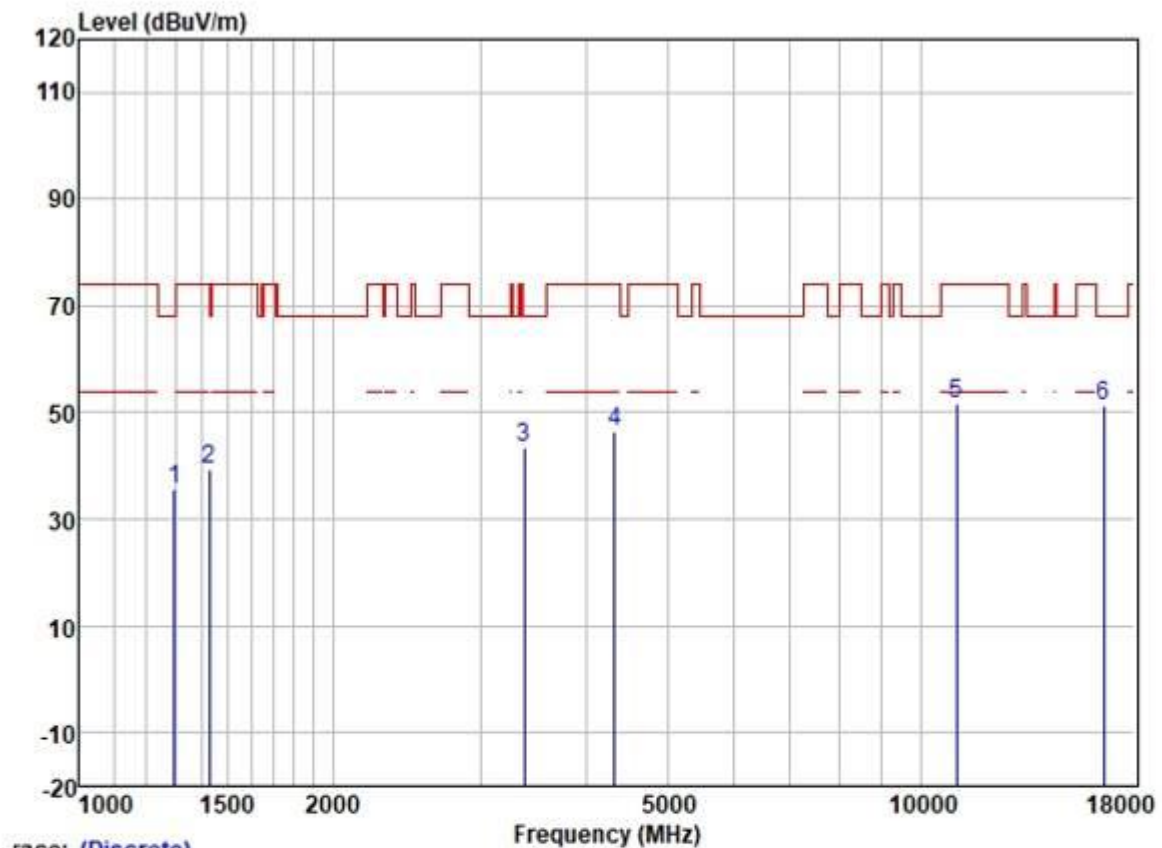
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	47.39	25.20	2.60	38.31	36.88	74.00	-37.12	HORIZONTAL	Peak
2	1473.013	48.75	25.48	2.76	38.13	38.86	74.00	-35.14	HORIZONTAL	Peak
3	3435.590	47.15	28.87	4.16	36.97	43.21	68.20	-24.99	HORIZONTAL	Peak
4	4443.453	47.74	30.73	4.83	36.81	46.49	68.20	-21.71	HORIZONTAL	Peak
5	11400.000	41.78	39.94	8.28	37.16	52.84	74.00	-21.16	HORIZONTAL	Peak
6	17100.000	34.53	42.32	9.63	35.34	51.14	68.20	-17.06	HORIZONTAL	Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



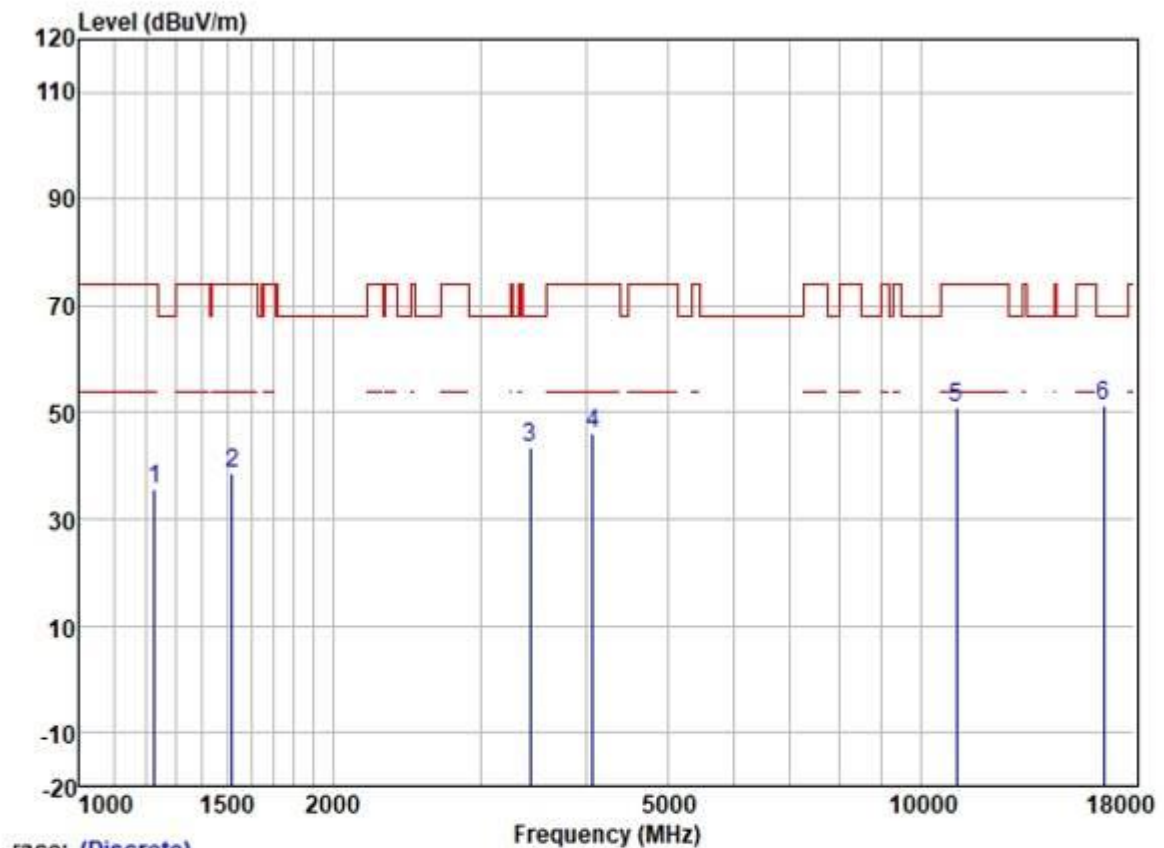
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1249.269	46.22	25.02	2.34	38.35	35.23	68.20	-32.97	VERTICAL Peak
2	1592.571	47.35	25.57	2.80	37.98	37.74	74.00	-36.26	VERTICAL Peak
3	3357.061	47.91	28.81	4.09	37.01	43.80	74.00	-30.20	VERTICAL Peak
4	4145.664	47.78	30.03	4.60	36.80	45.61	74.00	-28.39	VERTICAL Peak
5	11400.000	40.46	39.94	8.28	37.16	51.52	74.00	-22.48	VERTICAL Peak
6	17100.000	35.39	42.32	9.63	35.34	52.00	68.20	-16.20	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



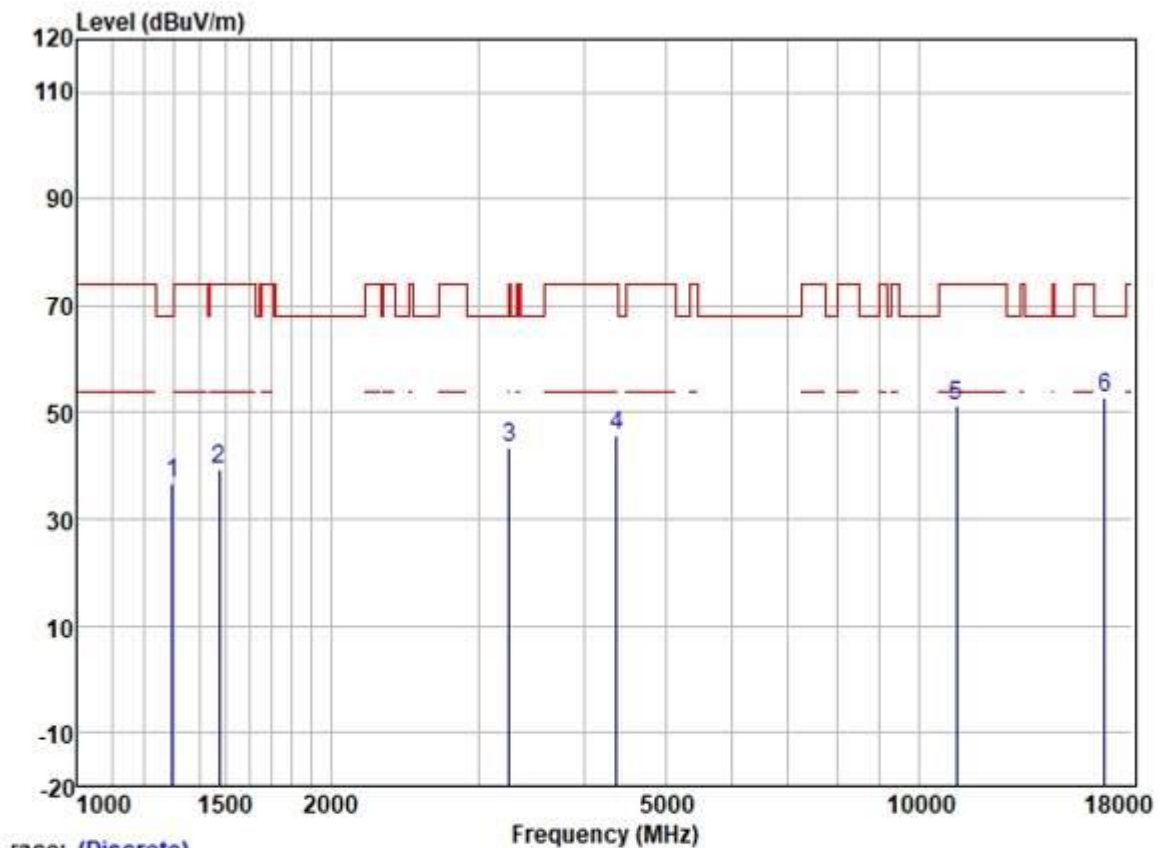
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.103	46.01	25.19	2.58	38.31	35.47	68.20	-32.73	HORIZONTAL	Peak
2	1426.916	49.50	25.43	2.65	38.20	39.38	74.00	-34.62	HORIZONTAL	Peak
3	3376.523	47.63	28.83	4.09	36.99	43.56	68.20	-24.64	HORIZONTAL	Peak
4	4329.354	47.93	30.54	4.67	36.81	46.33	74.00	-27.67	HORIZONTAL	Peak
5	11020.000	41.00	40.10	7.71	37.24	51.57	74.00	-22.43	HORIZONTAL	Peak
6	16530.000	37.44	39.76	9.44	35.38	51.26	68.20	-16.94	HORIZONTAL	Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



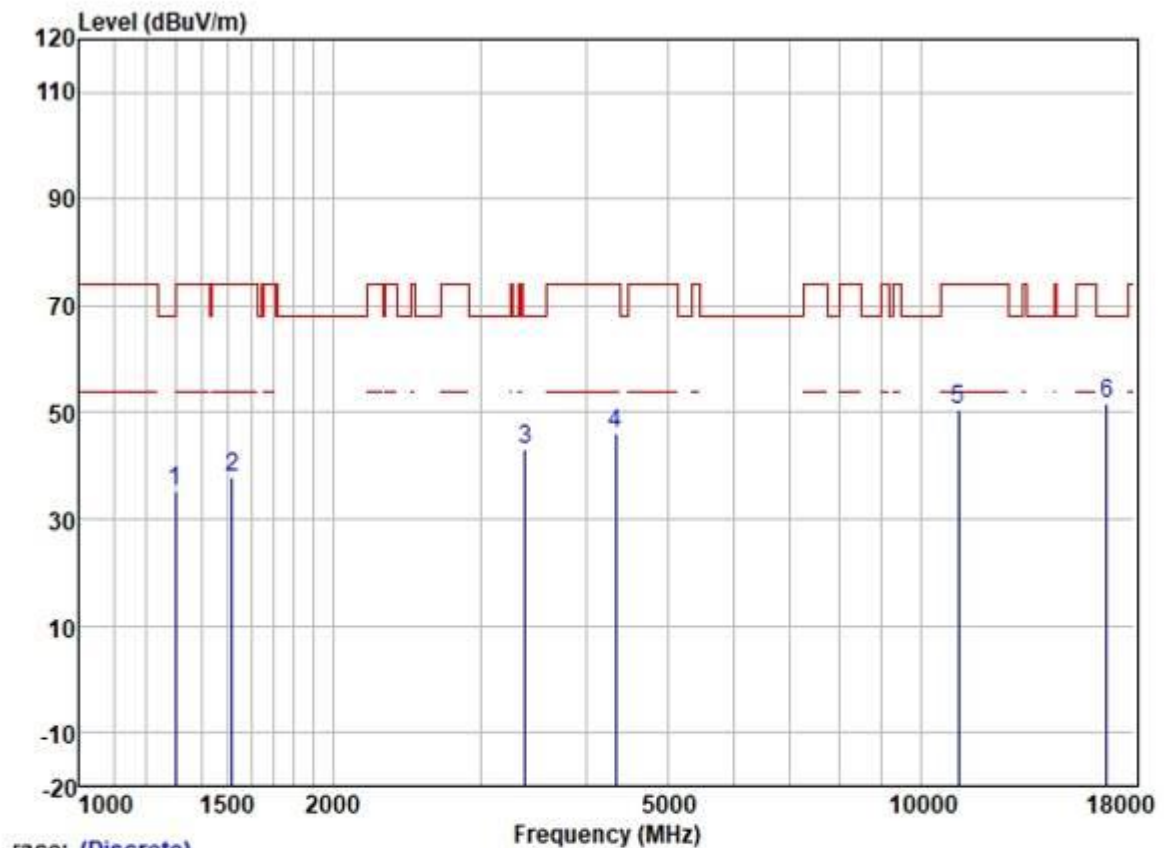
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1227.791	46.99	24.88	2.31	38.37	35.81	74.00	-38.19	VERTICAL Peak
2	1520.598	48.54	25.51	2.80	38.07	38.78	74.00	-35.22	VERTICAL Peak
3	3435.590	47.45	28.87	4.16	36.97	43.51	68.20	-24.69	VERTICAL Peak
4	4074.388	48.51	29.90	4.60	36.80	46.21	74.00	-27.79	VERTICAL Peak
5	11020.000	40.20	40.10	7.71	37.24	50.77	74.00	-23.23	VERTICAL Peak
6	16530.000	37.31	39.76	9.44	35.38	51.13	68.20	-17.07	VERTICAL Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



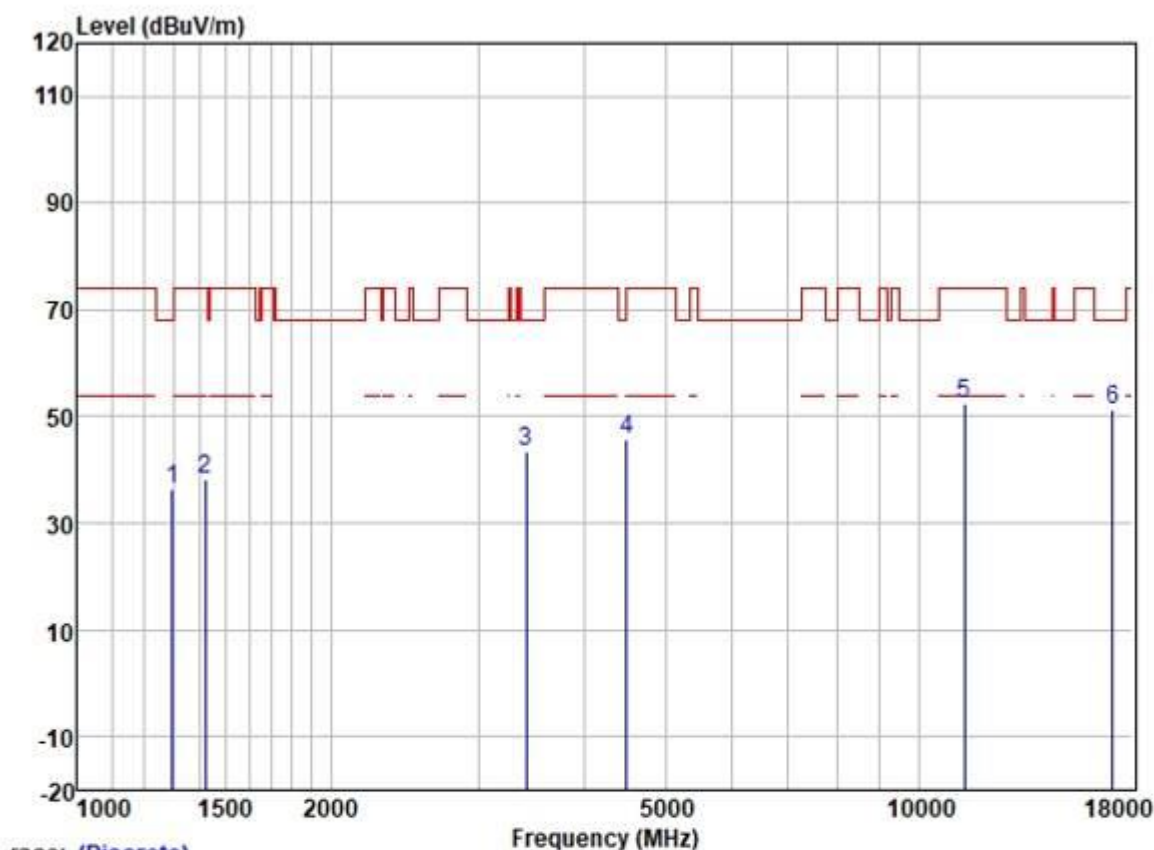
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	47.38	25.19	2.58	38.31	36.84	68.20	-31.36	HORIZONTAL Peak
2	1473.013	49.32	25.48	2.76	38.13	39.43	74.00	-34.57	HORIZONTAL Peak
3	3261.418	47.82	28.70	4.03	37.06	43.49	74.00	-30.51	HORIZONTAL Peak
4	4379.699	47.25	30.64	4.69	36.81	45.77	74.00	-28.23	HORIZONTAL Peak
5	11100.000	40.57	40.07	7.82	37.22	51.24	74.00	-22.76	HORIZONTAL Peak
6	16650.000	38.51	40.10	9.43	35.38	52.66	68.20	-15.54	HORIZONTAL Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1300.858	45.85	25.20	2.60	38.31	35.34	74.00	-38.66	VERTICAL Peak
2	1520.598	47.53	25.51	2.80	38.07	37.77	74.00	-36.23	VERTICAL Peak
3	3386.297	47.20	28.83	4.10	36.99	43.14	68.20	-25.06	VERTICAL Peak
4	4341.886	47.50	30.57	4.67	36.81	45.93	74.00	-28.07	VERTICAL Peak
5	11100.000	39.79	40.07	7.82	37.22	50.46	74.00	-23.54	VERTICAL Peak
6	16650.000	37.50	40.10	9.43	35.38	51.65	68.20	-16.55	VERTICAL Peak

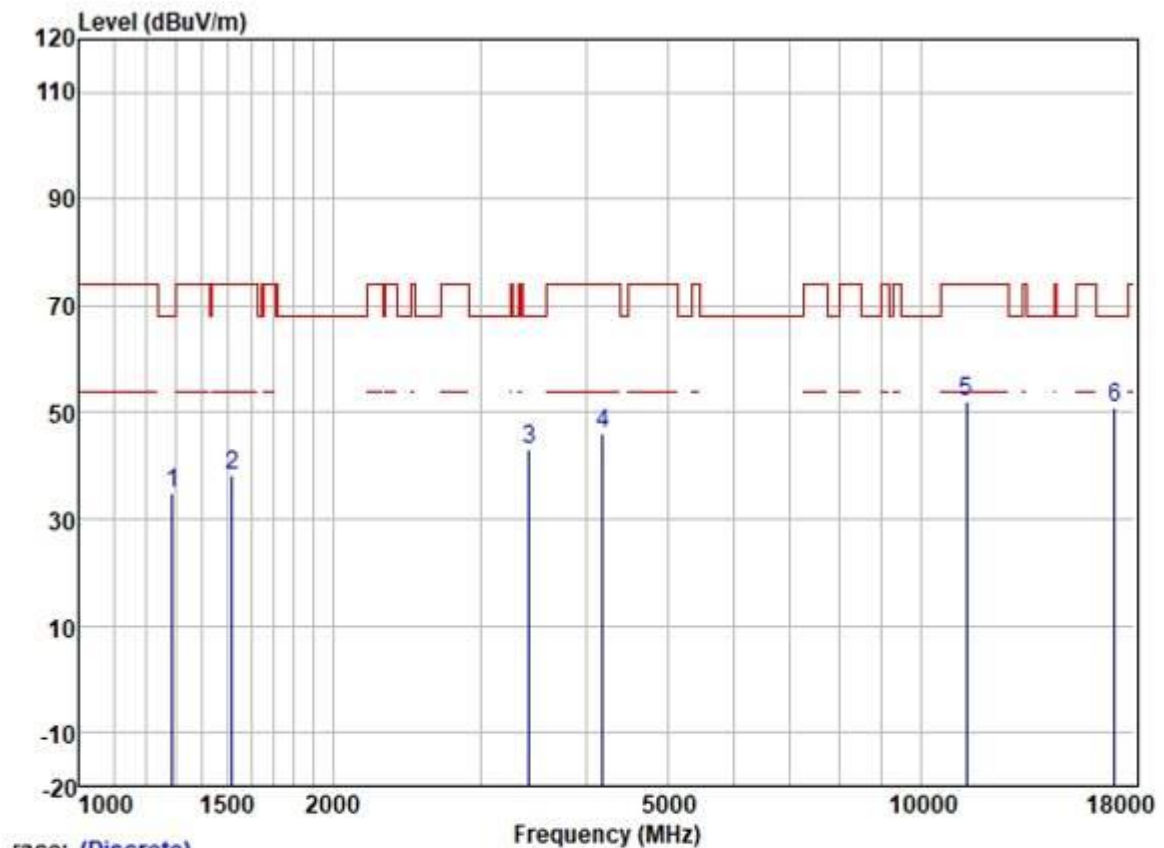
Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

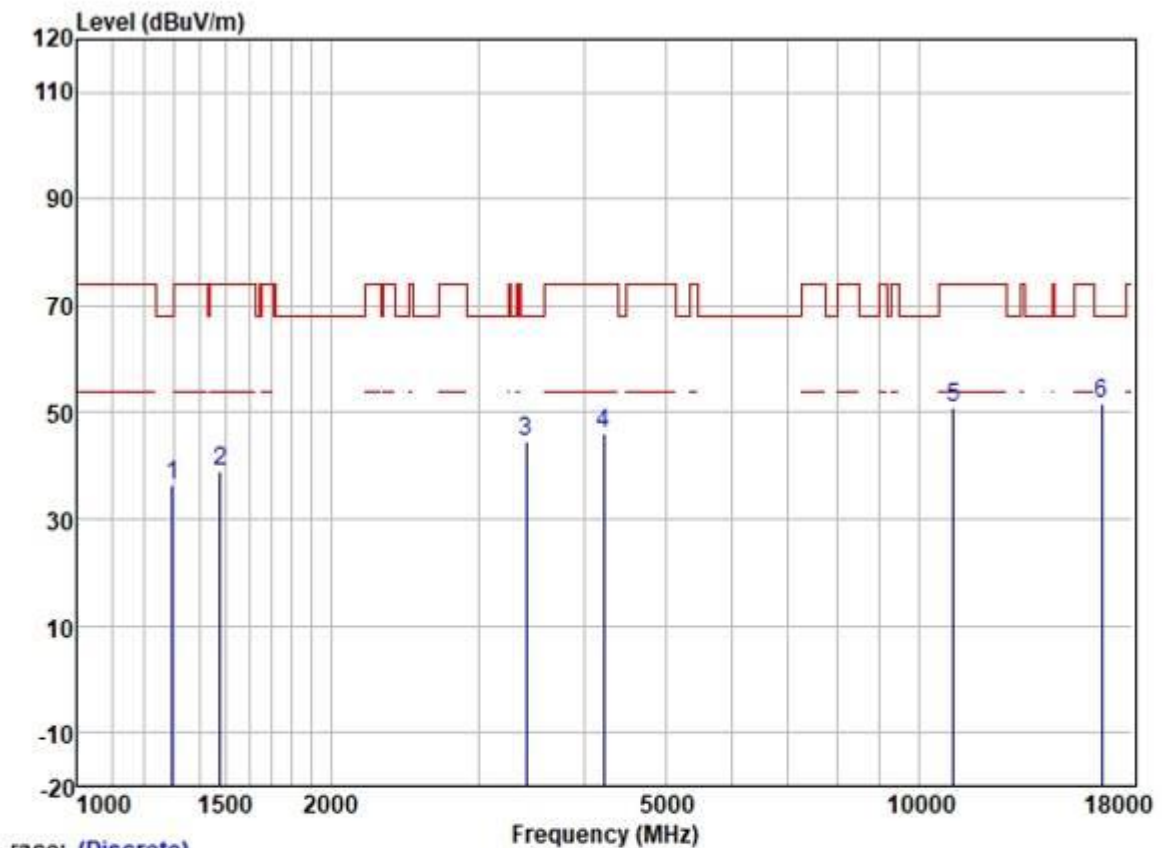
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	47.08	25.19	2.58	38.31	36.54	68.20	-31.66	HORIZONTAL Peak
2	1418.692	48.22	25.42	2.63	38.20	38.07	74.00	-35.93	HORIZONTAL Peak
3	3415.787	47.51	28.85	4.13	36.97	43.52	68.20	-24.68	HORIZONTAL Peak
4	4495.125	46.60	30.80	5.05	36.82	45.63	68.20	-22.57	HORIZONTAL Peak
5	11340.000	41.28	39.97	8.18	37.17	52.26	74.00	-21.74	HORIZONTAL Peak
6	17010.000	35.70	41.75	9.39	35.35	51.49	68.20	-16.71	HORIZONTAL Peak

Test Mode: 17; 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	1289.627	45.36	25.17	2.55	38.31	34.77	68.20	-33.43	VERTICAL Peak
2	1520.598	48.14	25.51	2.80	38.07	38.38	74.00	-35.62	VERTICAL Peak
3	3425.675	47.08	28.86	4.15	36.97	43.12	68.20	-25.08	VERTICAL Peak
4	4193.872	48.22	30.15	4.60	36.81	46.16	74.00	-27.84	VERTICAL Peak
5	11340.000	41.04	39.97	8.18	37.17	52.02	74.00	-21.98	VERTICAL Peak
6	17010.000	35.07	41.75	9.39	35.35	50.86	68.20	-17.34	VERTICAL Peak

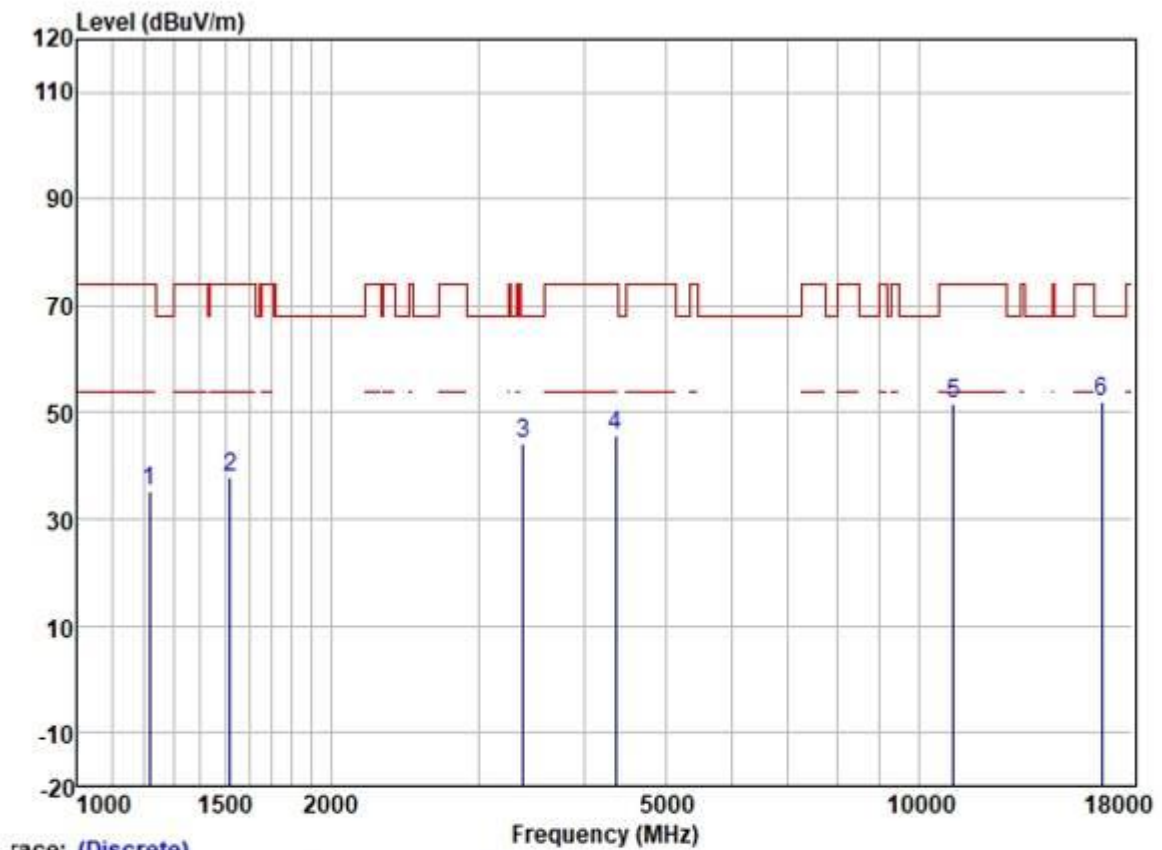
Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

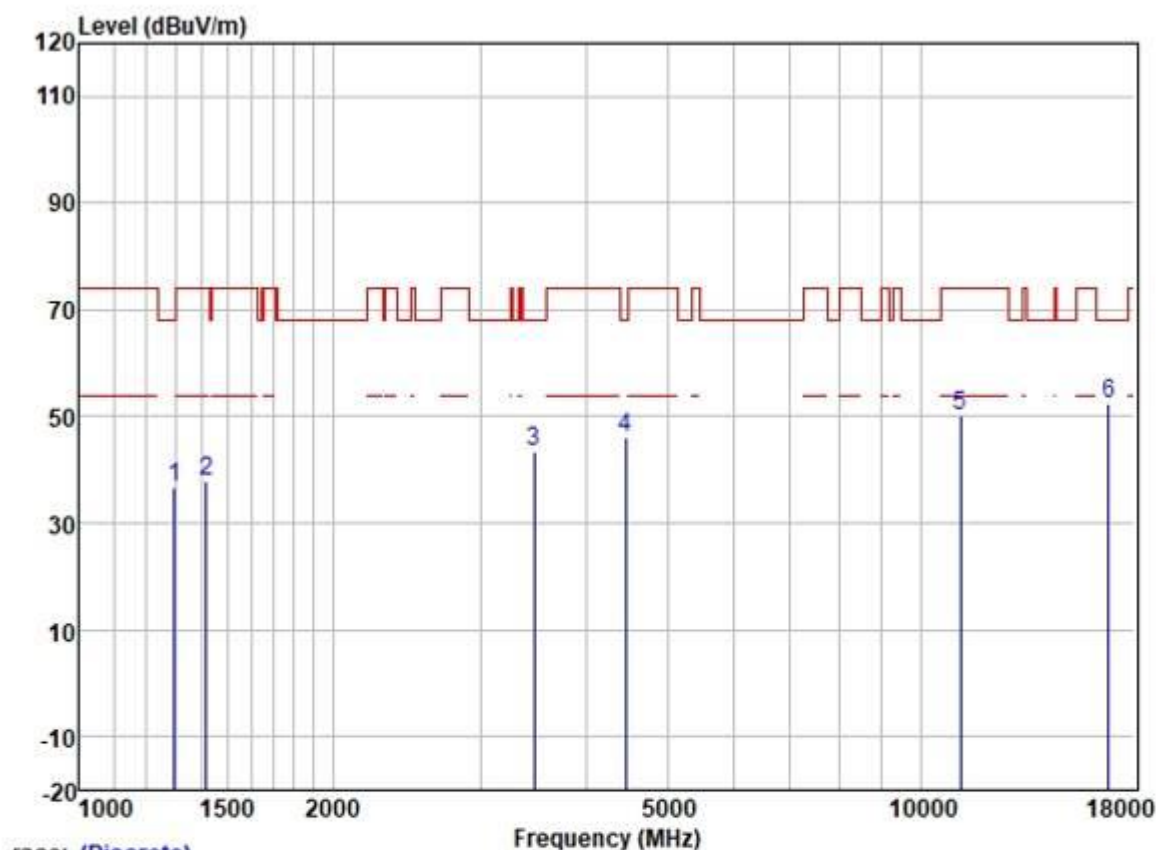
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	46.73	25.19	2.58	38.31	36.19	68.20	-32.01	HORIZONTAL Peak
2	1477.276	49.00	25.48	2.77	38.13	39.12	74.00	-34.88	HORIZONTAL Peak
3	3415.787	48.42	28.85	4.13	36.97	44.43	68.20	-23.77	HORIZONTAL Peak
4	4230.396	48.00	30.26	4.61	36.81	46.06	74.00	-27.94	HORIZONTAL Peak
5	11000.000	40.38	40.10	7.71	37.25	50.94	74.00	-23.06	HORIZONTAL Peak
6	16500.000	38.02	39.60	9.44	35.38	51.68	68.20	-16.52	HORIZONTAL Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



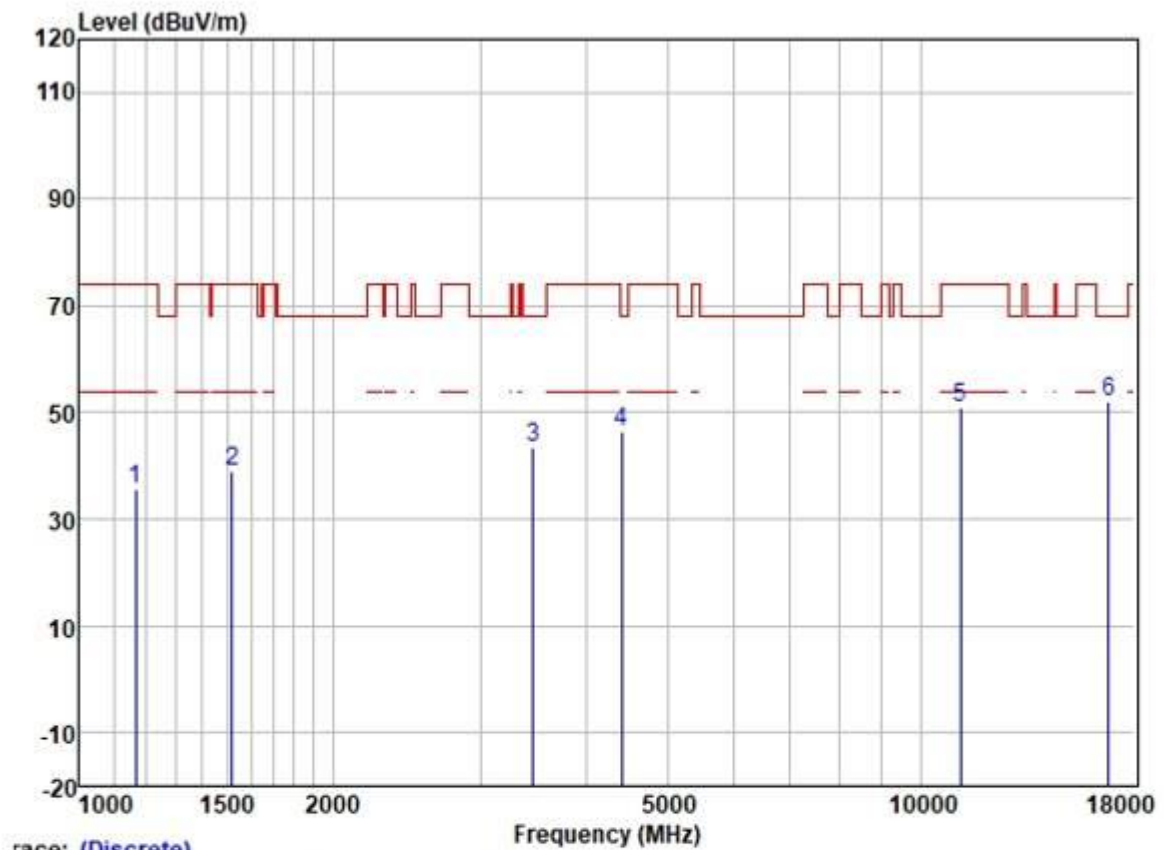
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1217.190	46.51	24.79	2.32	38.37	35.25	74.00	-38.75	VERTICAL	Peak
2	1520.598	47.62	25.51	2.80	38.07	37.86	74.00	-36.14	VERTICAL	Peak
3	3386.297	48.33	28.83	4.10	36.99	44.27	68.20	-23.93	VERTICAL	Peak
4	4367.058	47.24	30.62	4.68	36.81	45.73	74.00	-28.27	VERTICAL	Peak
5	11000.000	41.29	40.10	7.71	37.25	51.85	74.00	-22.15	VERTICAL	Peak
6	16500.000	38.23	39.60	9.44	35.38	51.89	68.20	-16.31	VERTICAL	Peak

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; 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	1297.103	47.12	25.19	2.58	38.31	36.58	68.20	-31.62	HORIZONTAL	Peak
2	1414.597	47.86	25.41	2.63	38.20	37.70	74.00	-36.30	HORIZONTAL	Peak
3	3475.541	47.24	28.89	4.25	36.95	43.43	68.20	-24.77	HORIZONTAL	Peak
4	4456.315	47.37	30.75	4.88	36.81	46.19	68.20	-22.01	HORIZONTAL	Peak
5	11160.000	39.63	40.04	7.90	37.21	50.36	74.00	-23.64	HORIZONTAL	Peak
6	16740.000	37.80	40.49	9.41	35.37	52.33	68.20	-15.87	HORIZONTAL	Peak

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; 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	1165.546	47.26	24.54	2.39	38.40	35.79	74.00	-38.21	VERTICAL Peak
2	1520.598	48.73	25.51	2.80	38.07	38.97	74.00	-35.03	VERTICAL Peak
3	3465.510	47.33	28.88	4.22	36.95	43.48	68.20	-24.72	VERTICAL Peak
4	4417.841	47.92	30.70	4.74	36.81	46.55	68.20	-21.65	VERTICAL Peak
5	11160.000	40.20	40.04	7.90	37.21	50.93	74.00	-23.07	VERTICAL Peak
6	16740.000	37.57	40.49	9.41	35.37	52.10	68.20	-16.10	VERTICAL Peak