



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 C 15.247
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 C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

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

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

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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4 General Information

4.1 Details of E.U.T.

	AC Adapter
	Model: A17-065N1A
	Input: AC 100-240V, 50/60Hz, 1.8A
	Output: DC 20V, 3.25A/DC15V, 3A/DC9V, 2A/DC5V, 2A
Power supply:	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
	AC 120V, 60Hz or AC 230V, 50Hz
Test voltage:	Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);
Cable(s):	AC cable:172cm unshielded
	DC cable:175cm unshielded
Internal Source:	More than 108MHz
Operation Frequency:	802.11b/g/n (HT20): 2412MHz to 2472MHz
	802.11n (HT40): 2422MHz to 2462MHz
	802.11b: DSSS (CCK, DQPSK, DBPSK)
Modulation Type:	802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Numbers:	802.11b/g, 802.11n HT20: 13 Channels
	802.11n HT40: 9 Channels
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 2.0dBi, Antenna2: 2.9dBi
	Note: MIMO for 802.11n.

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)
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, Sciotech 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

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna1 is 2.0dBi, antenna2 is 2.9dBi.

Please refer to internal photos.

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

Humidity: 48.7 % RH

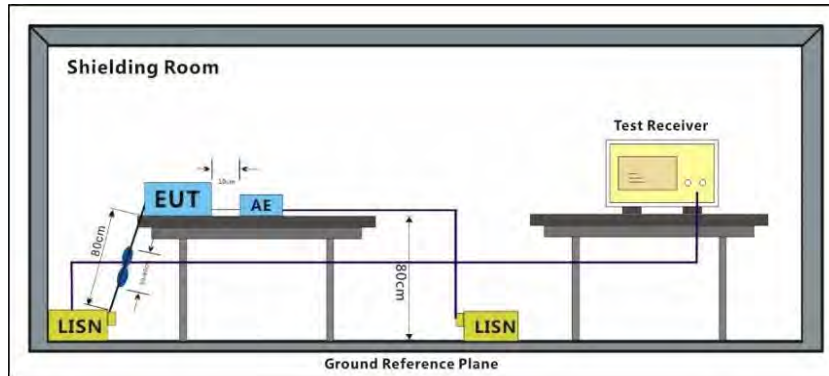
Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

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

Final test	11	Charge + TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
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7.1.3 Test Setup Diagram

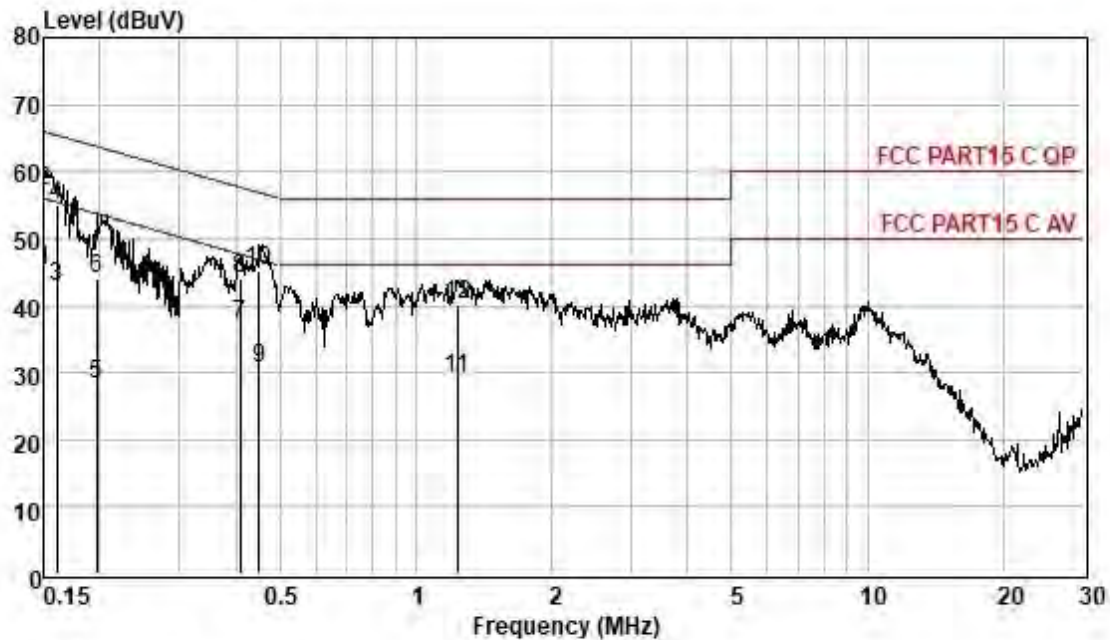


7.1.4 Measurement Procedure and Data

- 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

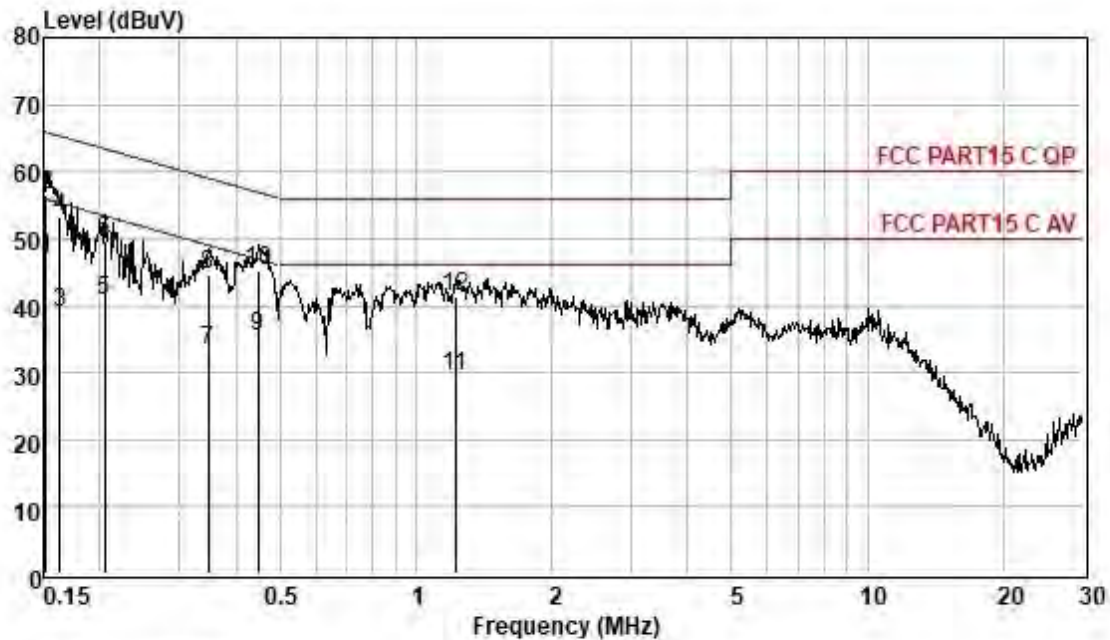
Test Mode: 11; Line: Live line



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	35.62	0.06	9.62	45.30	56.00	-10.70	Average
0.15	47.44	0.06	9.62	57.12	66.00	-8.88	QP
0.16	33.21	0.06	9.62	42.89	55.43	-12.54	Average
0.16	45.35	0.06	9.62	55.03	65.43	-10.40	QP
0.20	18.42	0.06	9.63	28.11	53.76	-25.65	Average
0.20	34.27	0.06	9.63	43.96	63.76	-19.80	QP
0.41	27.59	0.06	9.62	37.27	47.68	-10.41	Average
0.41	34.47	0.06	9.62	44.15	57.68	-13.53	QP
0.45	21.02	0.06	9.63	30.71	46.89	-16.18	Average
0.45	35.37	0.06	9.63	45.06	56.89	-11.83	QP
1.24	19.51	0.09	9.61	29.21	46.00	-16.79	Average
1.24	30.54	0.09	9.61	40.24	56.00	-15.76	QP

Test Mode: 11; 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	37.25	0.06	9.55	46.86	55.91	-9.05	Average
0.15	46.94	0.06	9.55	56.55	55.91	-9.36	QP
0.16	29.49	0.06	9.55	39.10	55.30	-16.20	Average
0.16	43.49	0.06	9.55	53.10	55.30	-12.20	QP
0.21	31.13	0.06	9.54	40.73	53.40	-12.67	Average
0.21	39.94	0.06	9.54	49.54	53.40	-13.86	QP
0.35	23.68	0.06	9.54	33.28	49.00	-15.72	Average
0.35	34.95	0.06	9.54	44.55	59.00	-14.45	QP
0.45	25.67	0.06	9.56	35.29	46.93	-11.64	Average
0.45	35.48	0.06	9.56	45.10	56.93	-11.83	QP
1.22	19.95	0.08	9.55	29.58	46.00	-16.42	Average
1.22	31.57	0.08	9.55	41.20	56.00	-14.80	QP

7.2 Radiated Emissions which fall in the restricted bands

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

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

Limit:

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

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

7.2.1 E.U.T. Operation

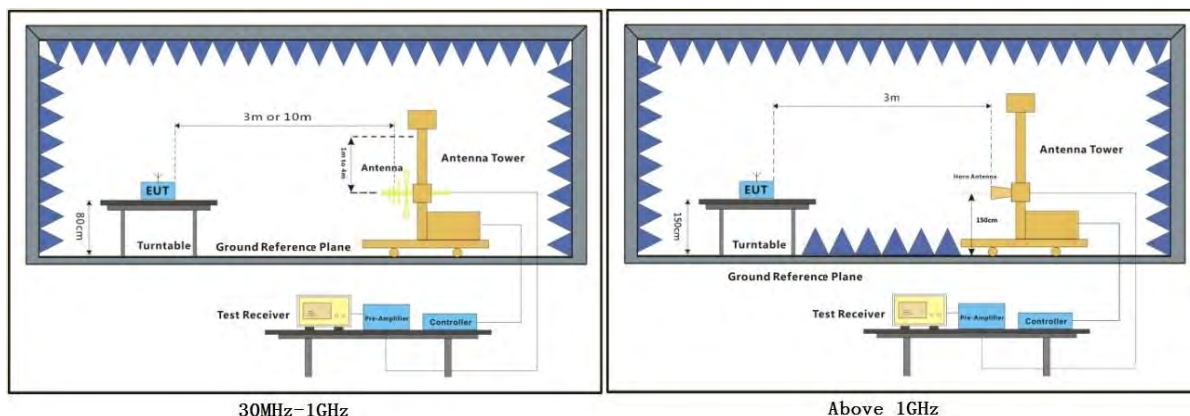
Operating Environment:

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

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

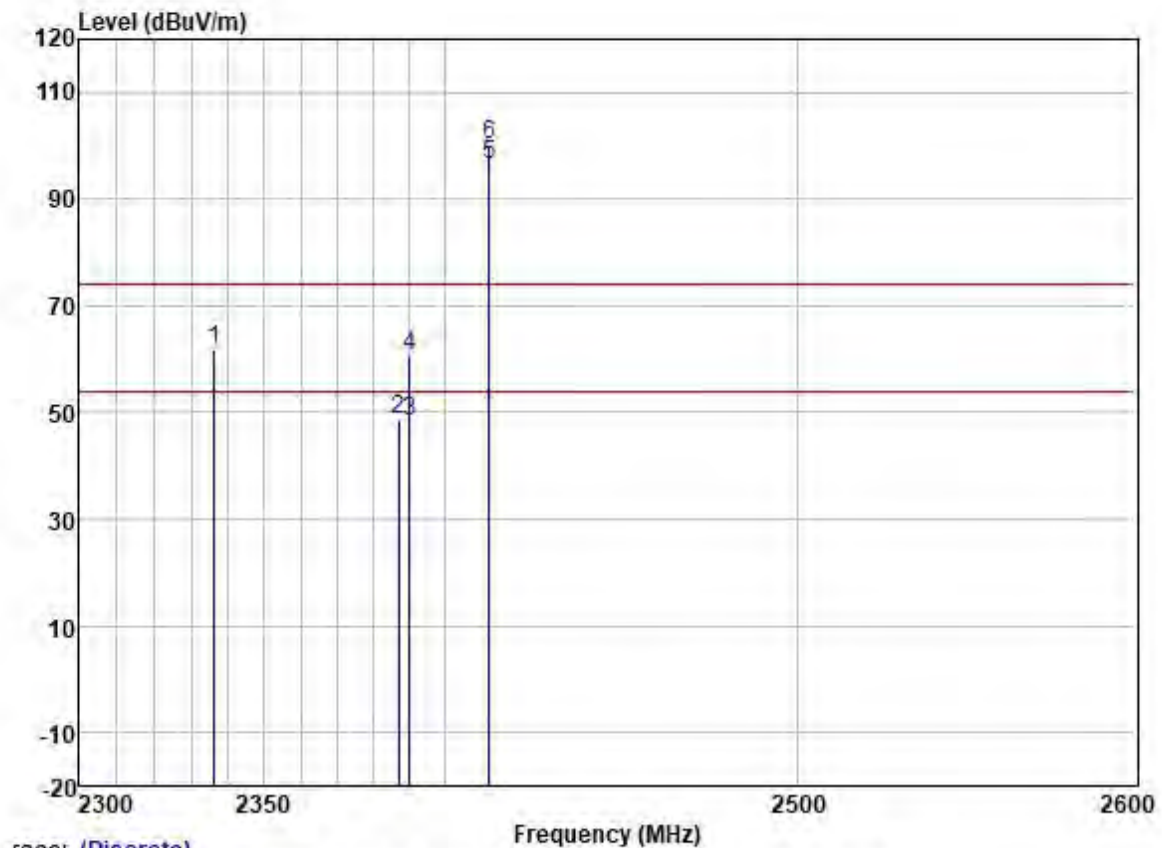
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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 Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

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

Remark 3: Pretest the EUT at antenna 1 and antenna 2, found the antenna 1 which is worst case for 802.11b/g mode; Pretest the EUT at antenna 1, antenna 2 and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20/HT40 mode; only the worst test data is recorded in the report.

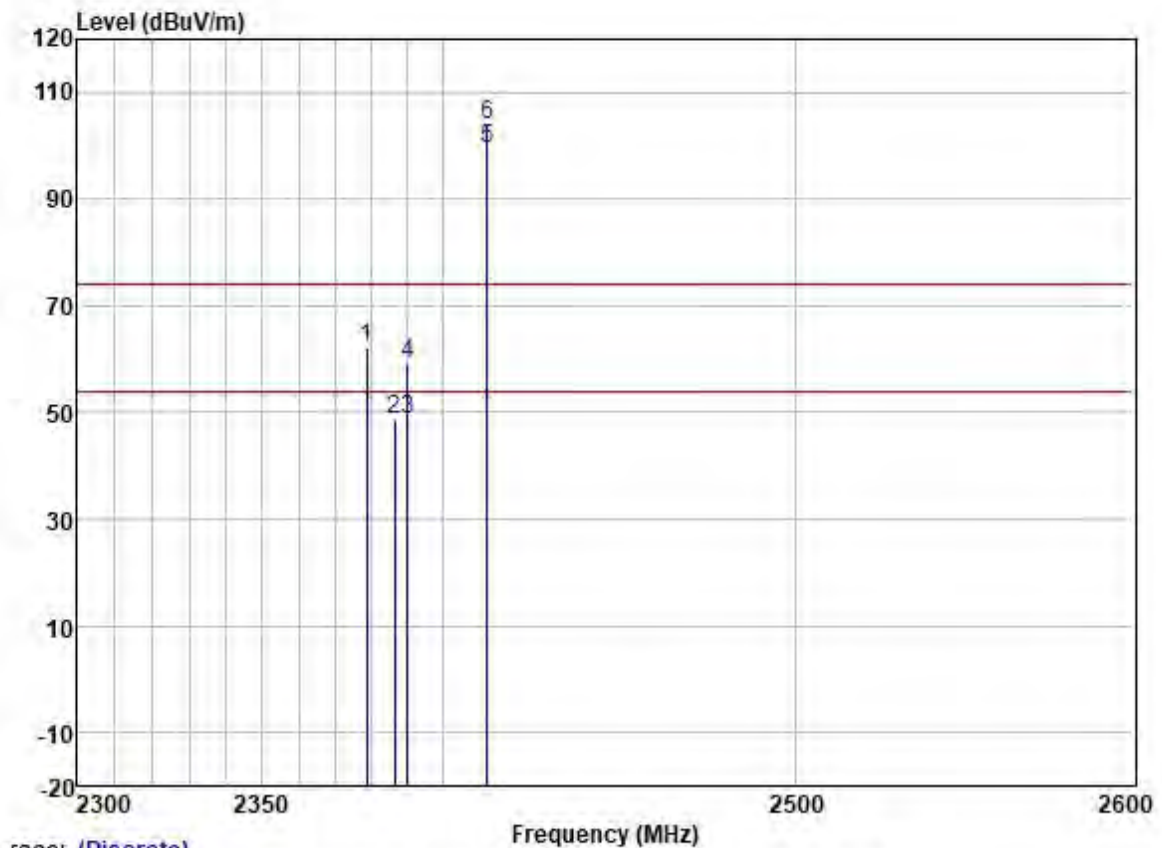
Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2336.354	68.93	27.22	3.37	37.62	61.90	74.00	-12.10
2	2386.823	55.33	27.33	3.48	37.60	48.54	54.00	-5.46
3	2390.000	54.99	27.33	3.48	37.59	48.21	54.00	-5.79
4	2390.000	67.56	27.33	3.48	37.59	60.78	74.00	-13.22
5 *	2412.000	103.20	27.38	3.47	37.59	96.46	54.00	42.46
6 *	2412.000	107.04	27.38	3.47	37.59	100.30	74.00	26.30

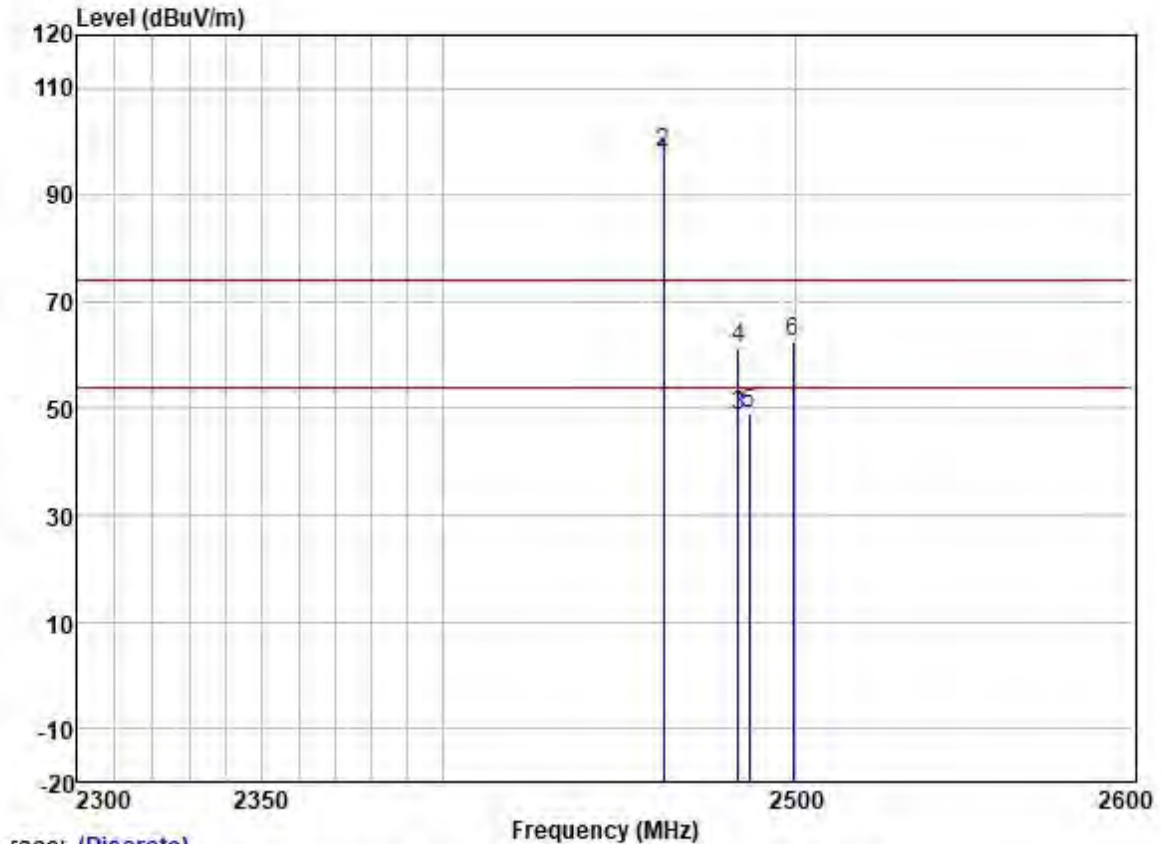
Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2378.497	68.87	27.31	3.46	37.60	62.04	74.00	-11.96	VERTICAL	Peak
2	2386.340	55.66	27.33	3.48	37.60	48.87	54.00	-5.13	VERTICAL	Average
3	2390.000	55.40	27.33	3.48	37.59	48.62	54.00	-5.38	VERTICAL	Average
4	2390.000	66.01	27.33	3.48	37.59	59.23	74.00	-14.77	VERTICAL	Peak
5 *	2412.000	106.12	27.38	3.47	37.59	99.38	54.00	45.38	VERTICAL	Average
6 *	2412.000	110.68	27.38	3.47	37.59	103.94	74.00	29.94	VERTICAL	Peak

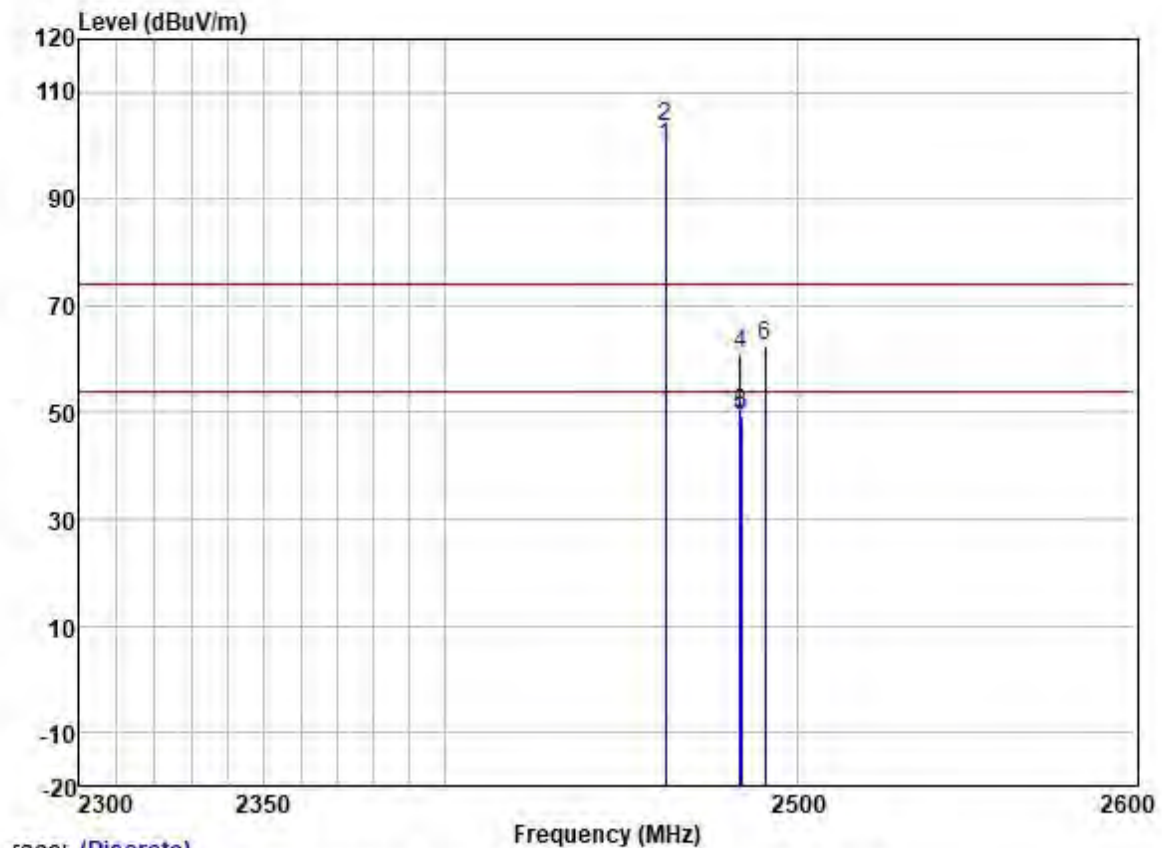
Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.000	102.58	27.45	3.50	37.58	95.95	54.00	41.95	HORIZONTAL Average
2 *	2462.000	104.52	27.45	3.50	37.58	97.89	74.00	23.89	HORIZONTAL Peak
3	2483.500	55.20	27.48	3.53	37.57	48.64	54.00	-5.36	HORIZONTAL Average
4	2483.500	67.80	27.48	3.53	37.57	61.24	74.00	-12.76	HORIZONTAL Peak
5	2486.501	55.69	27.48	3.53	37.57	49.13	54.00	-4.87	HORIZONTAL Average
6	2499.242	69.29	27.50	3.40	37.56	62.63	74.00	-11.37	HORIZONTAL Peak

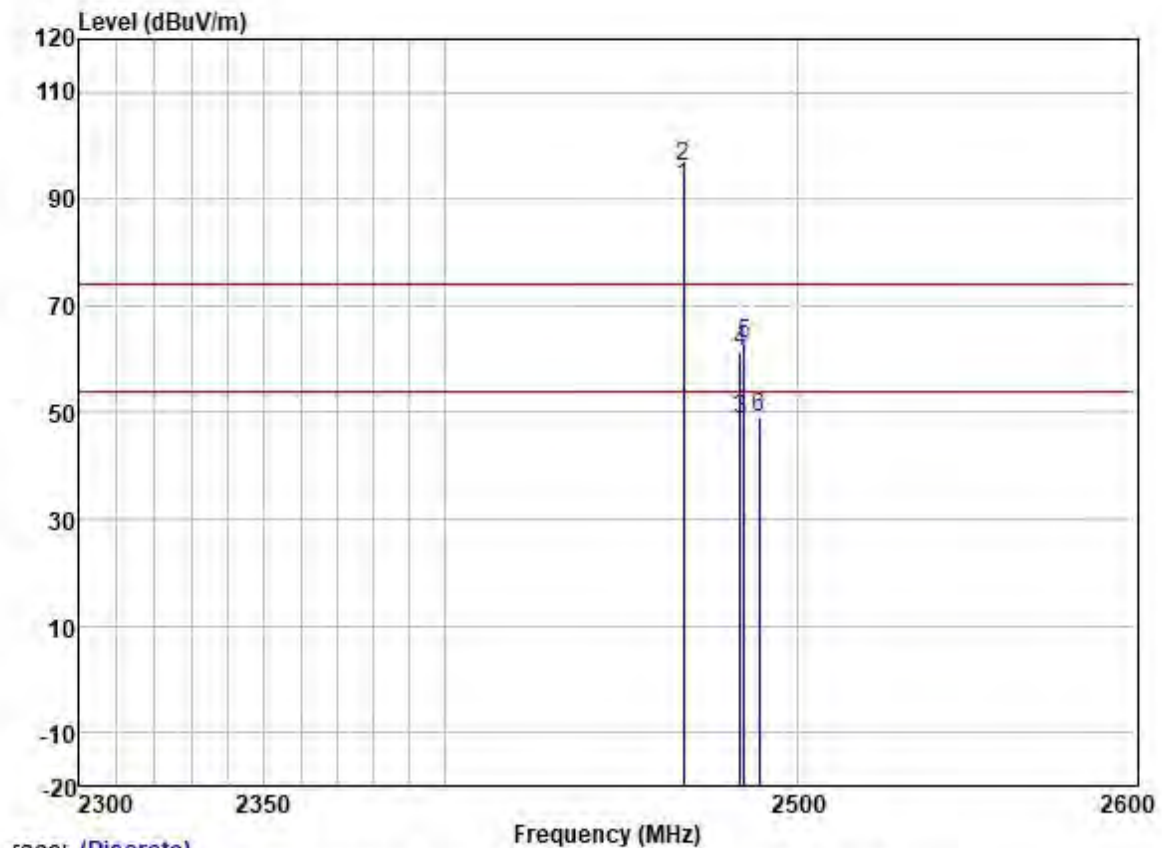
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Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	106.54	27.45	3.50	37.58	99.91	54.00	45.91	VERTICAL	Average
2 *	2462.000	110.18	27.45	3.50	37.58	103.55	74.00	29.55	VERTICAL	Peak
3	2483.500	56.25	27.48	3.53	37.57	49.69	54.00	-4.31	VERTICAL	Average
4	2483.500	67.60	27.48	3.53	37.57	61.04	74.00	-12.96	VERTICAL	Peak
5	2483.790	55.91	27.48	3.53	37.57	49.35	54.00	-4.65	VERTICAL	Average
6	2490.674	69.29	27.49	3.47	37.56	62.69	74.00	-11.31	VERTICAL	Peak

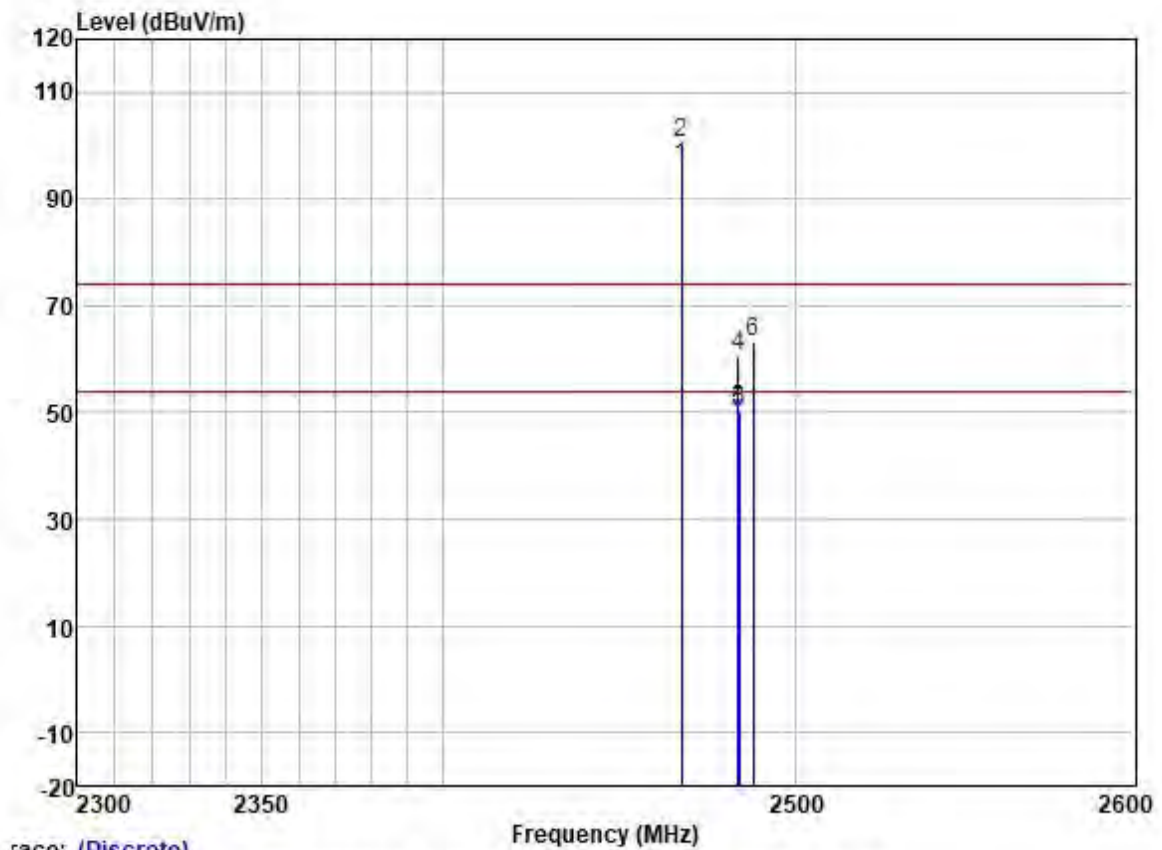
Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2467.000	99.10	27.45	3.50	37.57	92.48	54.00	38.48	HORIZONTAL Average
2 *	2467.000	102.58	27.45	3.50	37.57	95.96	74.00	21.96	HORIZONTAL Peak
3	2483.500	55.23	27.48	3.53	37.57	48.67	54.00	-5.33	HORIZONTAL Average
4	2483.500	67.95	27.48	3.53	37.57	61.39	74.00	-12.61	HORIZONTAL Peak
5	2484.653	69.31	27.48	3.53	37.57	62.75	74.00	-11.25	HORIZONTAL Peak
6	2488.990	55.43	27.48	3.53	37.56	48.88	54.00	-5.12	HORIZONTAL Average

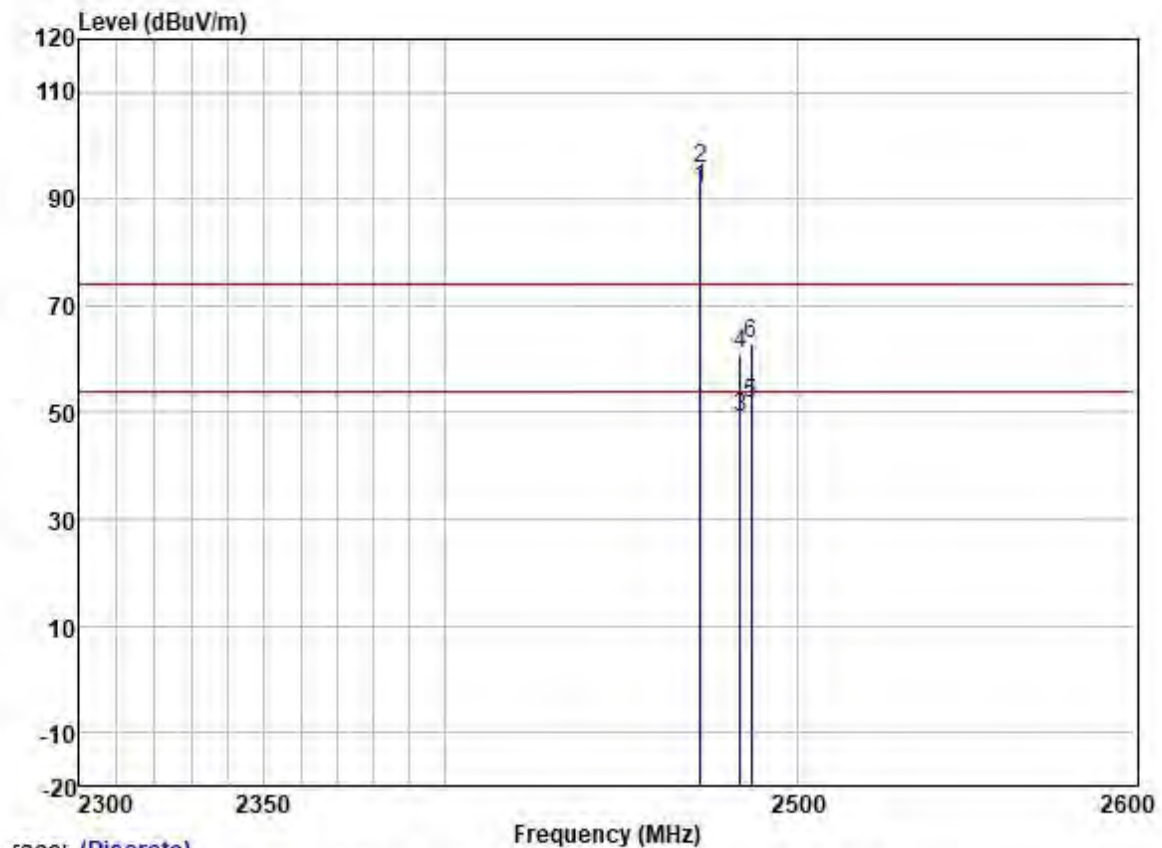
Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2467.000	102.61	27.45	3.50	37.57	95.99	54.00	41.99	VERTICAL
2 *	2467.000	107.22	27.45	3.50	37.57	100.60	74.00	26.60	VERTICAL
3	2483.500	57.01	27.48	3.53	37.57	50.45	54.00	-3.55	VERTICAL
4	2483.500	67.17	27.48	3.53	37.57	60.61	74.00	-13.39	VERTICAL
5	2483.796	56.79	27.48	3.53	37.57	50.23	54.00	-3.77	VERTICAL
6	2487.769	69.91	27.48	3.53	37.56	63.36	74.00	-10.64	VERTICAL

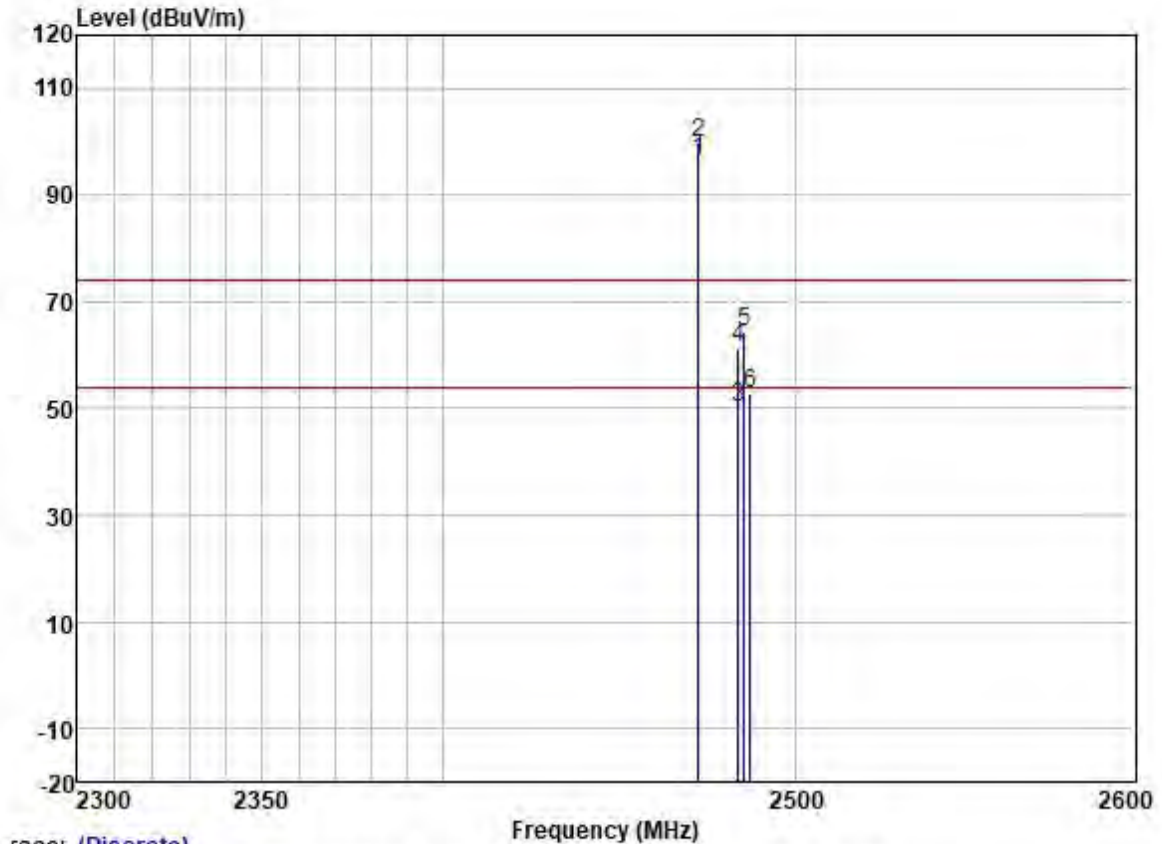
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Trace: (Discrete)

	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 *	2472.000	98.58	27.46	3.55	37.57	92.02	54.00	38.02	HORIZONTAL Average
2 *	2472.000	102.34	27.46	3.55	37.57	95.78	74.00	21.78	HORIZONTAL Peak
3	2483.500	55.61	27.48	3.53	37.57	49.05	54.00	-4.95	HORIZONTAL Average
4	2483.500	67.60	27.48	3.53	37.57	61.04	74.00	-12.96	HORIZONTAL Peak
5	2486.608	58.13	27.48	3.53	37.57	51.57	54.00	-2.43	HORIZONTAL Average
6	2486.729	69.52	27.48	3.53	37.57	62.96	74.00	-11.04	HORIZONTAL Peak

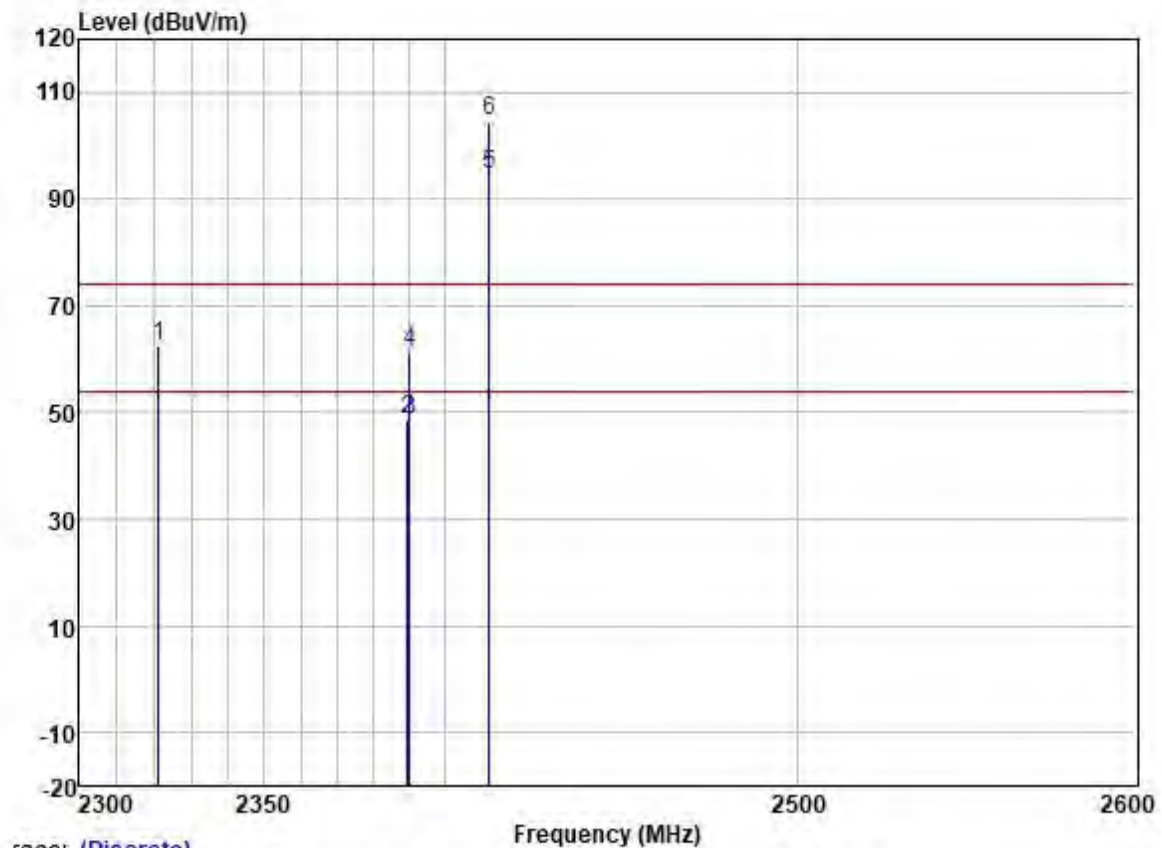
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Trace: (Discrete)

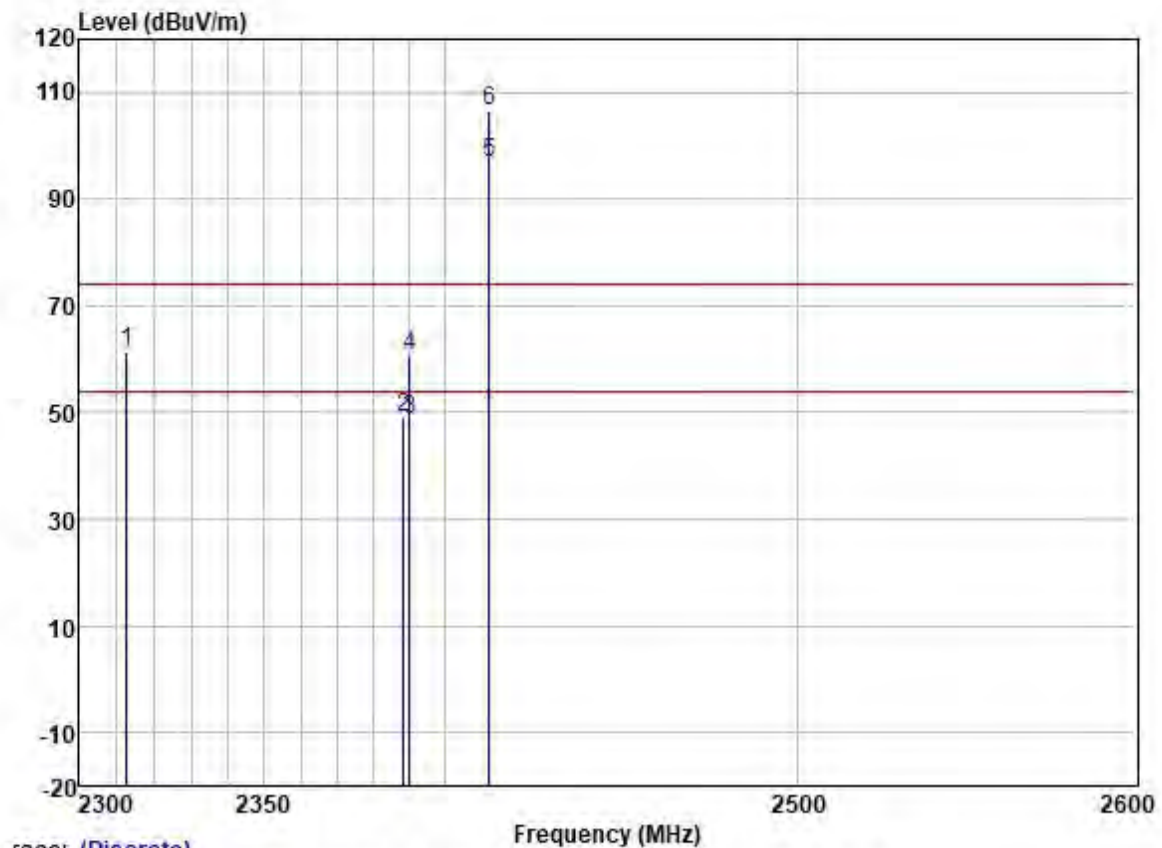
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2472.000	102.97	27.46	3.55	37.57	96.41	54.00	42.41	VERTICAL	Average
2 *	2472.000	106.52	27.46	3.55	37.57	99.96	74.00	25.96	VERTICAL	Peak
3	2483.500	56.78	27.48	3.53	37.57	50.22	54.00	-3.78	VERTICAL	Average
4	2483.500	68.07	27.48	3.53	37.57	61.51	74.00	-12.49	VERTICAL	Peak
5	2485.045	70.94	27.48	3.53	37.57	64.38	74.00	-9.62	VERTICAL	Peak
6	2486.769	59.46	27.48	3.53	37.57	52.90	54.00	-1.10	VERTICAL	Average

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



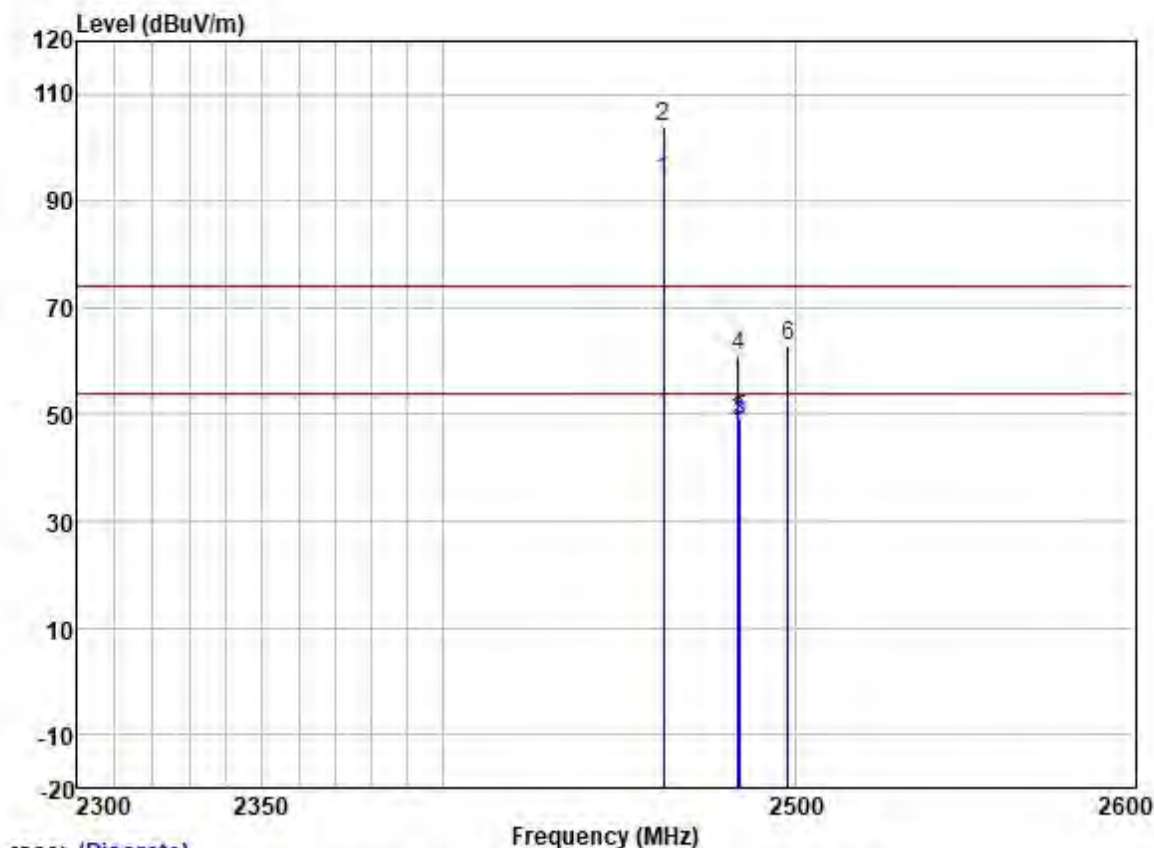
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2321.141	69.64	27.17	3.33	37.62	62.52	74.00	-11.48	HORIZONTAL	Peak
2	2389.363	55.65	27.33	3.48	37.59	48.87	54.00	-5.13	HORIZONTAL	Average
3	2390.000	55.50	27.33	3.48	37.59	48.72	54.00	-5.28	HORIZONTAL	Average
4	2390.000	68.22	27.33	3.48	37.59	61.44	74.00	-12.56	HORIZONTAL	Peak
5 *	2412.000	101.43	27.38	3.47	37.59	94.69	54.00	40.69	HORIZONTAL	Average
6 *	2412.000	111.50	27.38	3.47	37.59	104.76	74.00	30.76	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2312.692	68.66	27.15	3.32	37.62	61.51	74.00	-12.49	VERTICAL Peak
2	2388.154	55.73	27.33	3.48	37.59	48.95	54.00	-5.05	VERTICAL Average
3	2390.000	55.64	27.33	3.48	37.59	48.86	54.00	-5.14	VERTICAL Average
4	2390.000	67.46	27.33	3.48	37.59	60.68	74.00	-13.32	VERTICAL Peak
5 *	2412.000	103.59	27.38	3.47	37.59	96.85	54.00	42.85	VERTICAL Average
6 *	2412.000	113.15	27.38	3.47	37.59	106.41	74.00	32.41	VERTICAL Peak

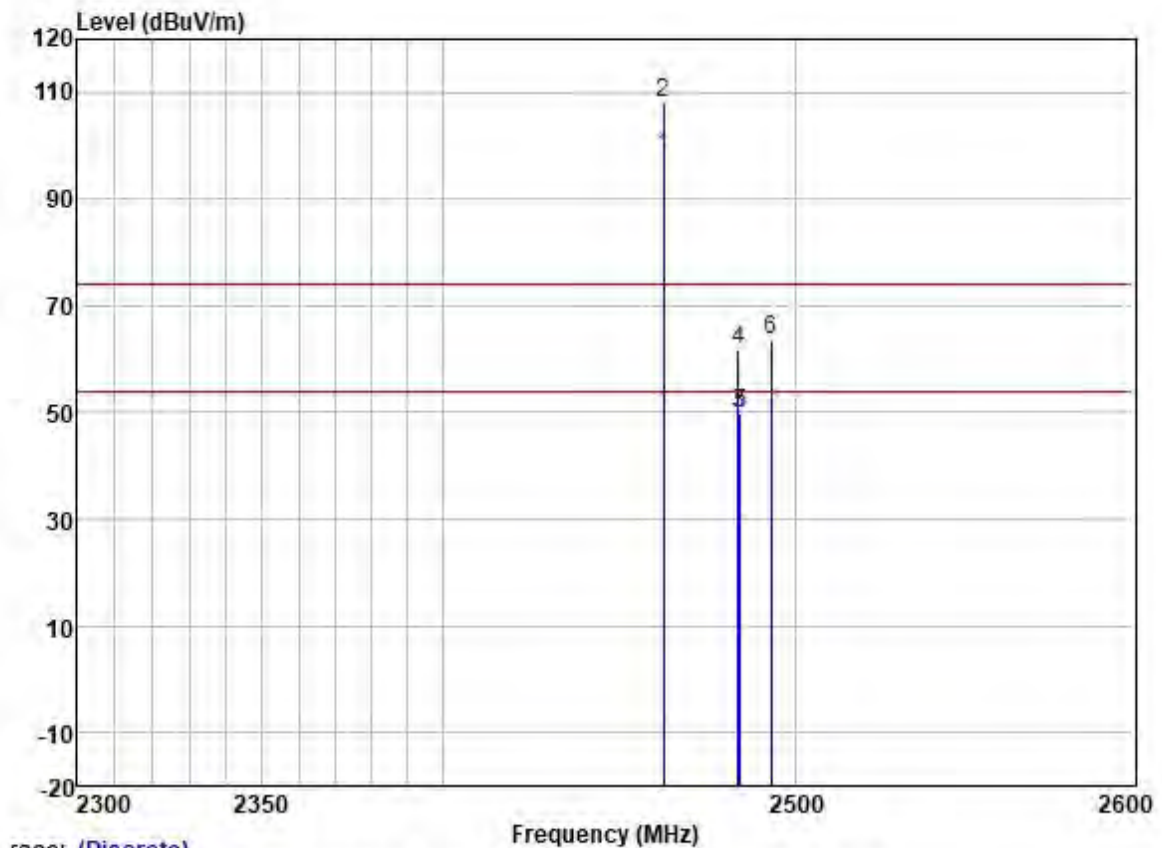
Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2462.000	100.53	27.45	3.50	37.58	93.90	54.00	39.90	HORIZONTAL Average
2 *	2462.000	110.47	27.45	3.50	37.58	103.84	74.00	29.84	HORIZONTAL Peak
3	2483.500	55.35	27.48	3.53	37.57	48.79	54.00	-5.21	HORIZONTAL Average
4	2483.500	67.68	27.48	3.53	37.57	61.12	74.00	-12.88	HORIZONTAL Peak
5	2483.990	55.50	27.48	3.53	37.57	48.94	54.00	-5.06	HORIZONTAL Average
6	2497.980	69.45	27.50	3.40	37.56	62.79	74.00	-11.21	HORIZONTAL Peak

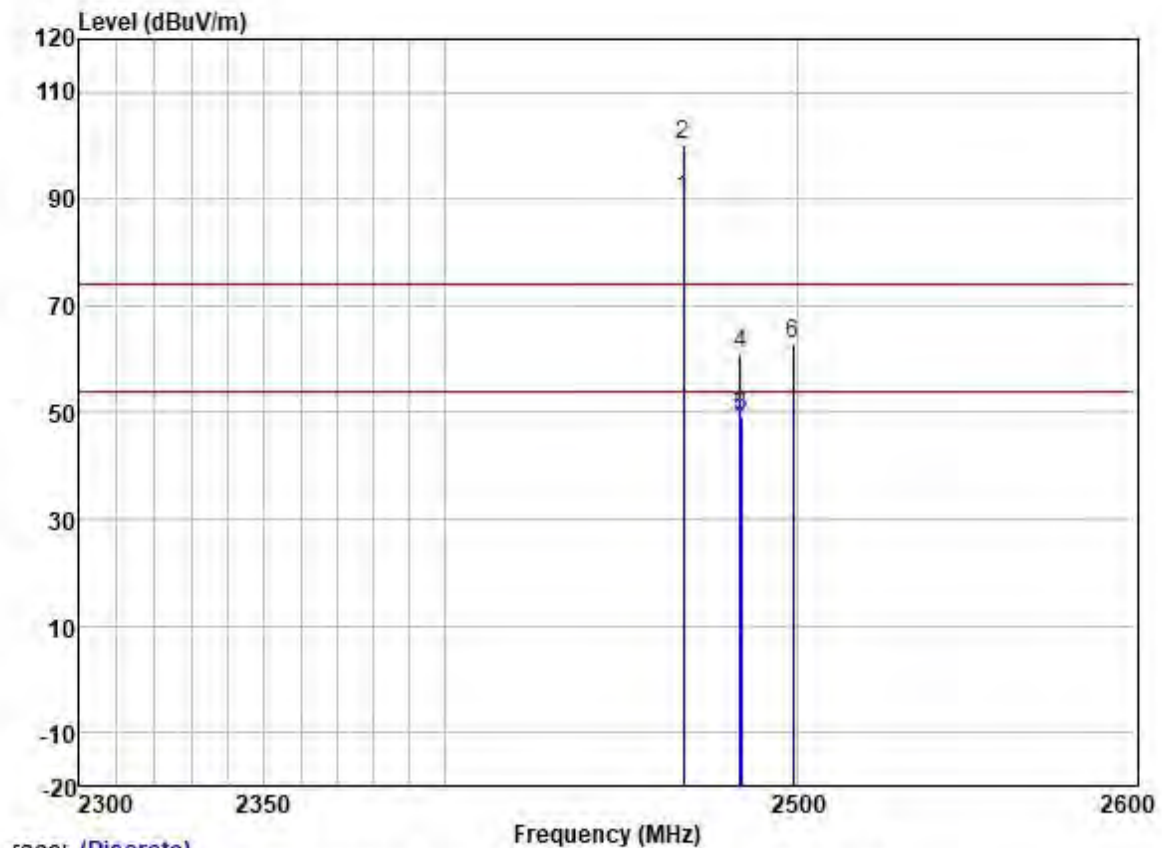
Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	104.47	27.45	3.50	37.58	97.84	54.00	43.84	VERTICAL	Average
2 *	2462.000	114.72	27.45	3.50	37.58	108.09	74.00	34.09	VERTICAL	Peak
3	2483.500	56.19	27.48	3.53	37.57	49.63	54.00	-4.37	VERTICAL	Average
4	2483.500	68.21	27.48	3.53	37.57	61.65	74.00	-12.35	VERTICAL	Peak
5	2483.940	56.25	27.48	3.53	37.57	49.69	54.00	-4.31	VERTICAL	Average
6	2492.990	70.30	27.49	3.47	37.56	63.70	74.00	-10.30	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2467.000	96.77	27.45	3.50	37.57	90.15	54.00	36.15	HORIZONTAL	Average
2 *	2467.000	106.94	27.45	3.50	37.57	100.32	74.00	26.32	HORIZONTAL	Peak
3	2483.500	55.97	27.48	3.53	37.57	49.41	54.00	-4.59	HORIZONTAL	Average
4	2483.500	67.72	27.48	3.53	37.57	61.16	74.00	-12.84	HORIZONTAL	Peak
5	2483.796	55.74	27.48	3.53	37.57	49.18	54.00	-4.82	HORIZONTAL	Average
6	2498.774	69.46	27.50	3.40	37.56	62.80	74.00	-11.20	HORIZONTAL	Peak



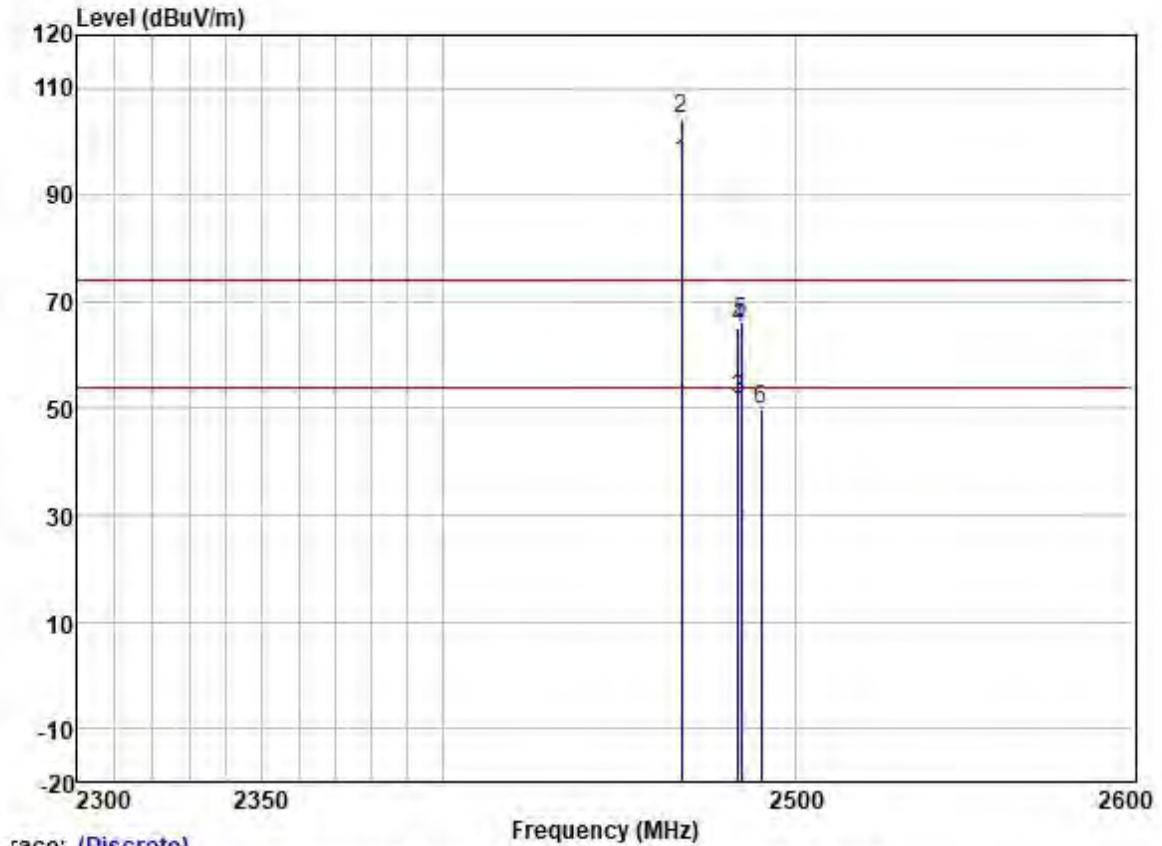
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SGS-CST Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

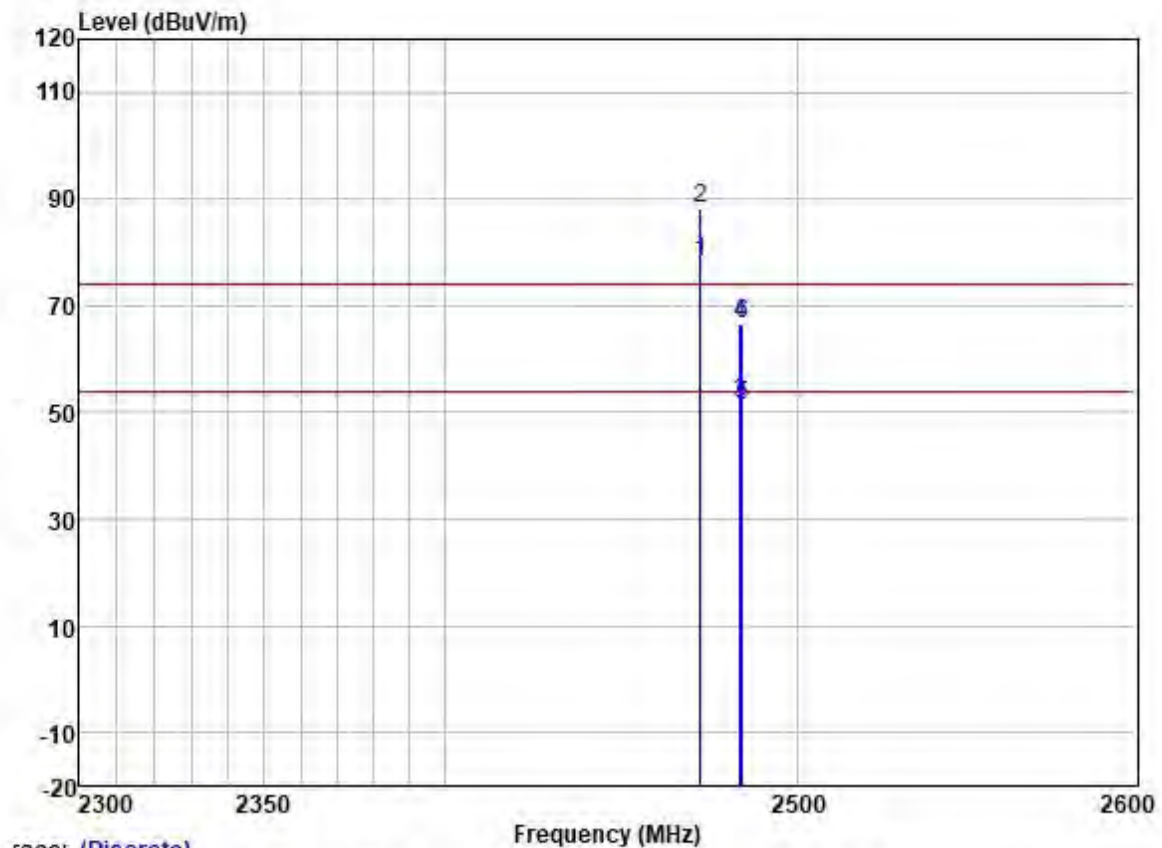
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



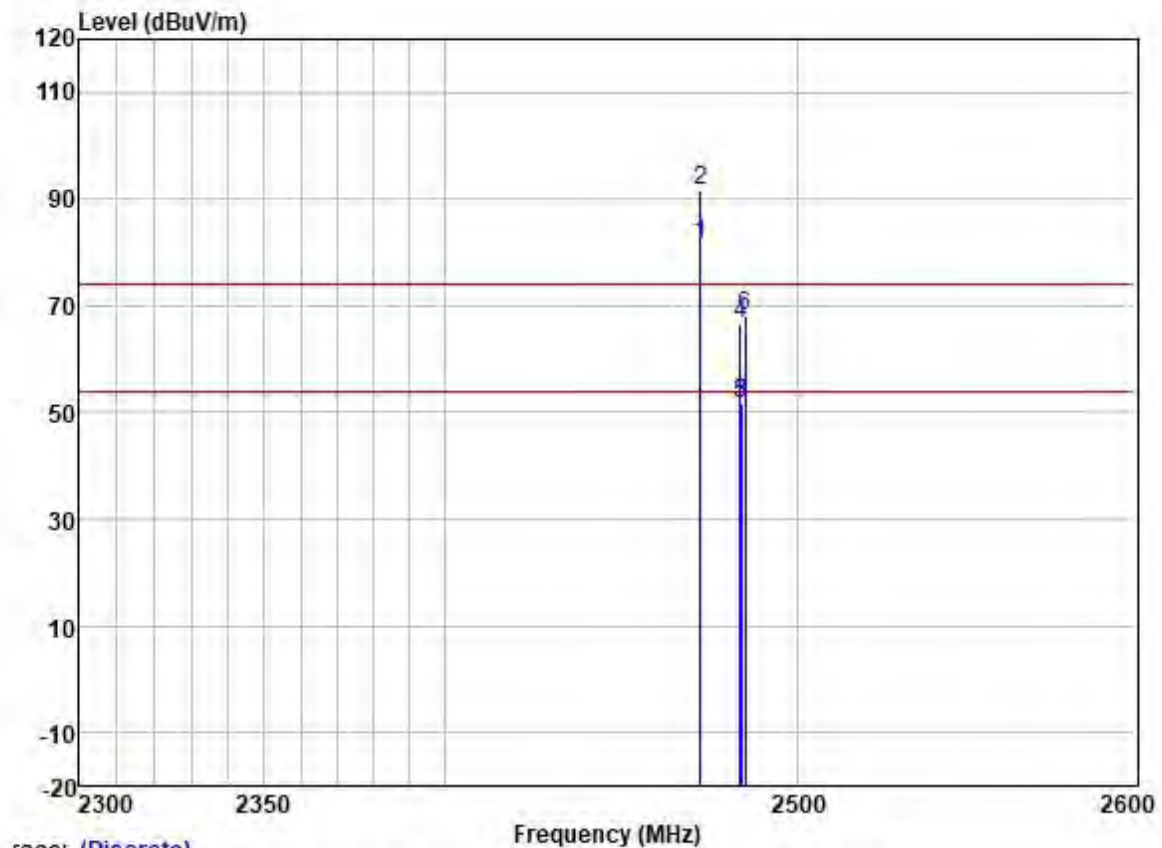
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2467.000	102.70	27.45	3.50	37.57	96.08	54.00	42.08	Average
2 *	2467.000	110.87	27.45	3.50	37.57	104.25	74.00	30.25	Peak
3	2483.500	58.33	27.48	3.53	37.57	51.77	54.00	-2.23	Average
4	2483.500	71.79	27.48	3.53	37.57	65.23	74.00	-8.77	Peak
5	2484.383	72.82	27.48	3.53	37.57	66.26	74.00	-7.74	Peak
6	2490.030	56.23	27.49	3.47	37.56	49.63	54.00	-4.37	Average

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2472.000	84.74	27.46	3.55	37.57	78.18	54.00	24.18	HORIZONTAL	Average
2 *	2472.000	94.99	27.46	3.55	37.57	88.43	74.00	14.43	HORIZONTAL	Peak
3	2483.500	58.25	27.48	3.53	37.57	51.69	54.00	-2.31	HORIZONTAL	Average
4	2483.500	73.02	27.48	3.53	37.57	66.46	74.00	-7.54	HORIZONTAL	Peak
5	2483.923	57.87	27.48	3.53	37.57	51.31	54.00	-2.69	HORIZONTAL	Average
6	2484.123	73.14	27.48	3.53	37.57	66.58	74.00	-7.42	HORIZONTAL	Peak

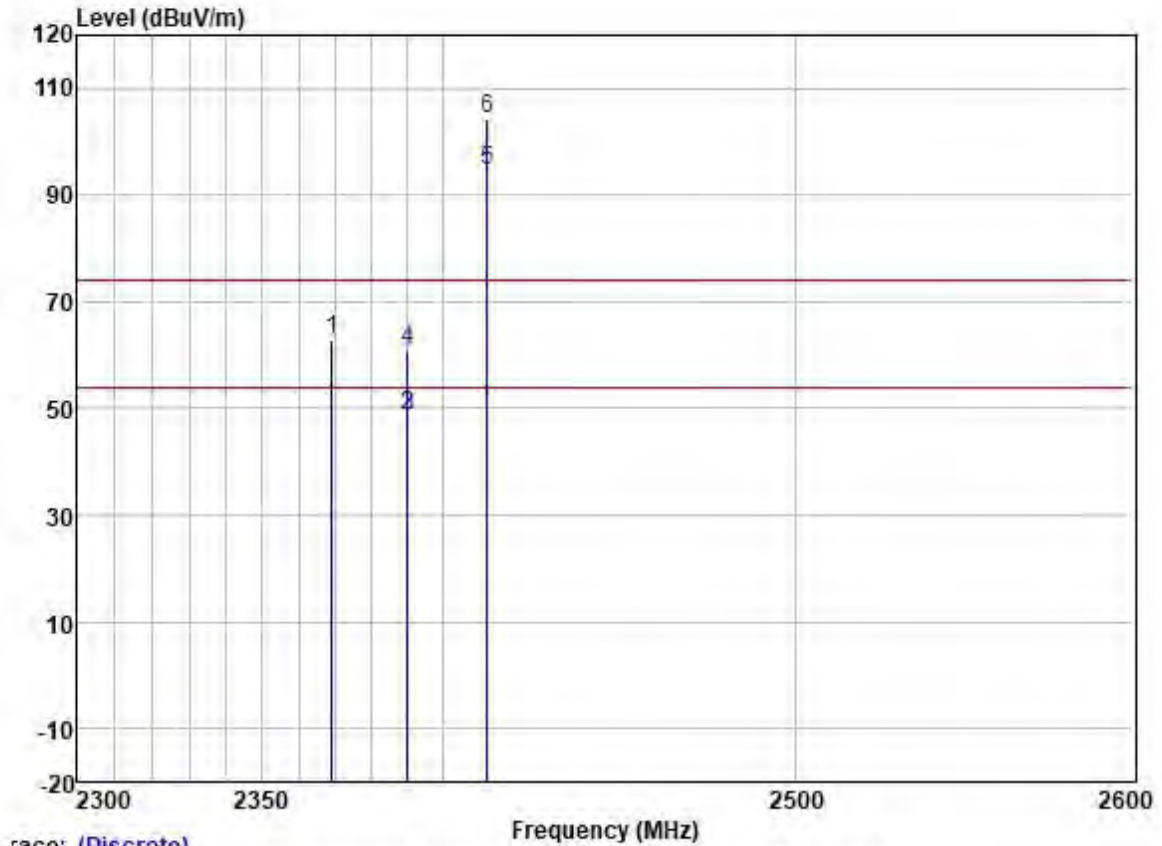
Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

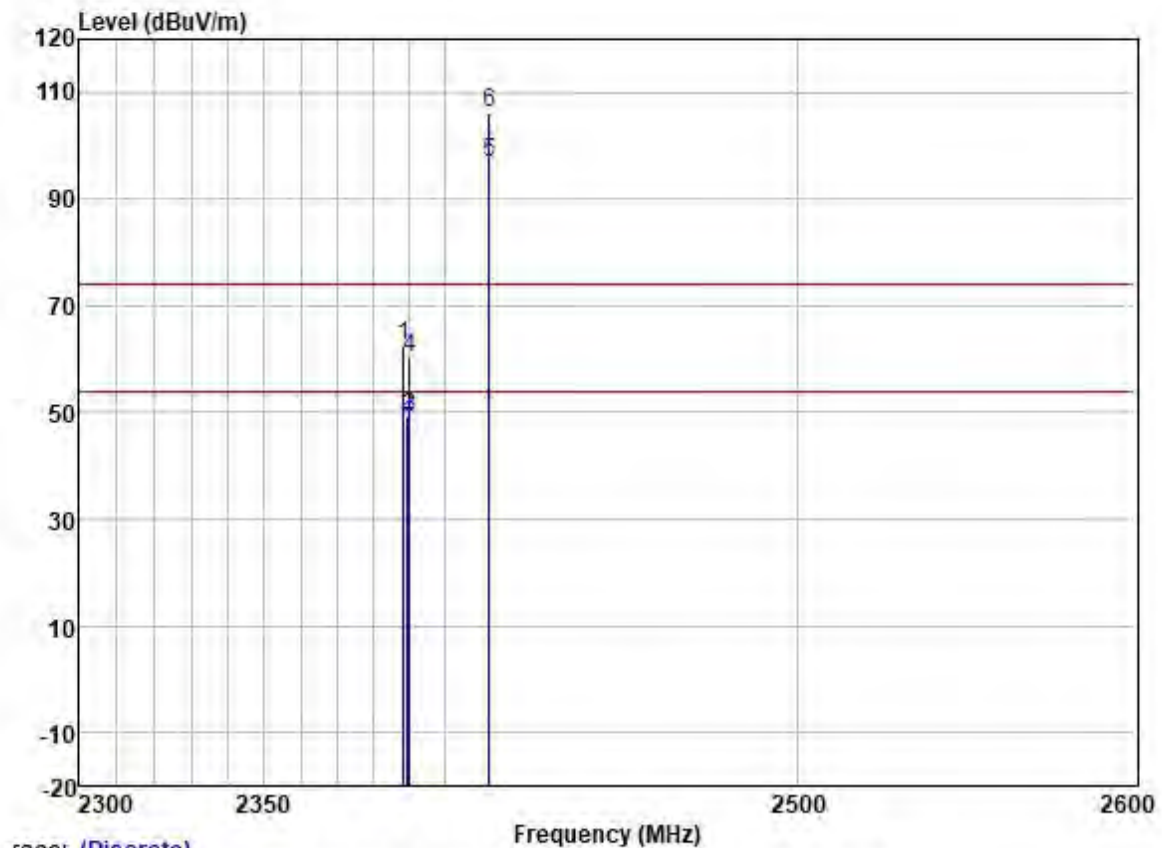
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2472.000	88.28	27.46	3.55	37.57	81.72	54.00	27.72	VERTICAL	Average
2 *	2472.000	98.23	27.46	3.55	37.57	91.67	74.00	17.67	VERTICAL	Peak
3	2483.500	58.33	27.48	3.53	37.57	51.77	54.00	-2.23	VERTICAL	Average
4	2483.500	73.27	27.48	3.53	37.57	66.71	74.00	-7.29	VERTICAL	Peak
5	2483.762	58.34	27.48	3.53	37.57	51.78	54.00	-2.22	VERTICAL	Average
6	2484.764	74.53	27.48	3.53	37.57	67.97	74.00	-6.03	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; 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	2369.000	69.61	27.28	3.43	37.60	62.72	74.00	-11.28	HORIZONTAL	Peak
2	2389.968	55.65	27.33	3.48	37.59	48.87	54.00	-5.13	HORIZONTAL	Average
3	2390.000	55.65	27.33	3.48	37.59	48.87	54.00	-5.13	HORIZONTAL	Average
4	2390.000	67.68	27.33	3.48	37.59	60.90	74.00	-13.10	HORIZONTAL	Peak
5 *	2412.000	101.33	27.38	3.47	37.59	94.59	54.00	40.59	HORIZONTAL	Average
6 *	2412.000	111.22	27.38	3.47	37.59	104.48	74.00	30.48	HORIZONTAL	Peak

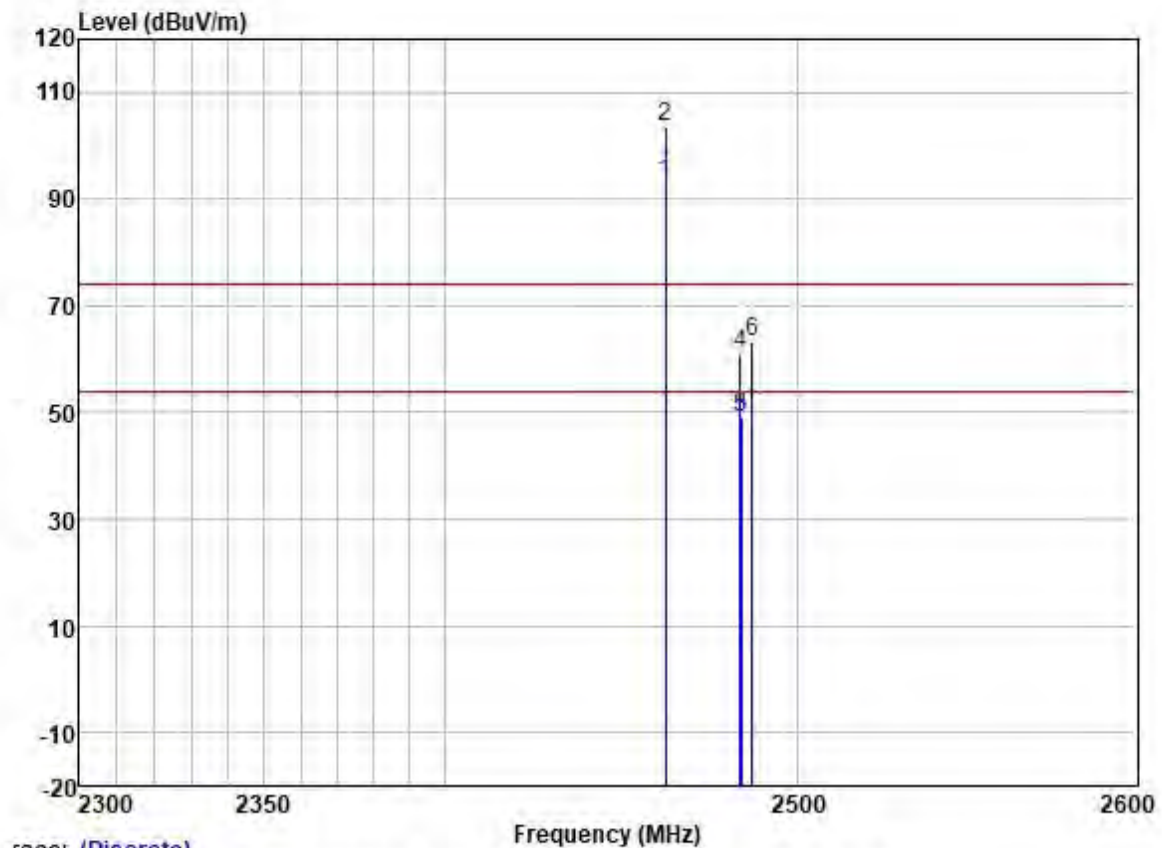
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	2388.274	69.26	27.33	3.48	37.59	62.48	74.00	-11.52	VERTICAL Peak
2	2389.363	56.12	27.33	3.48	37.59	49.34	54.00	-4.66	VERTICAL Average
3	2390.000	55.98	27.33	3.48	37.59	49.20	54.00	-4.80	VERTICAL Average
4	2390.000	67.08	27.33	3.48	37.59	60.30	74.00	-13.70	VERTICAL Peak
5 *	2412.000	103.60	27.38	3.47	37.59	96.86	54.00	42.86	VERTICAL Average
6 *	2412.000	112.96	27.38	3.47	37.59	106.22	74.00	32.22	VERTICAL Peak

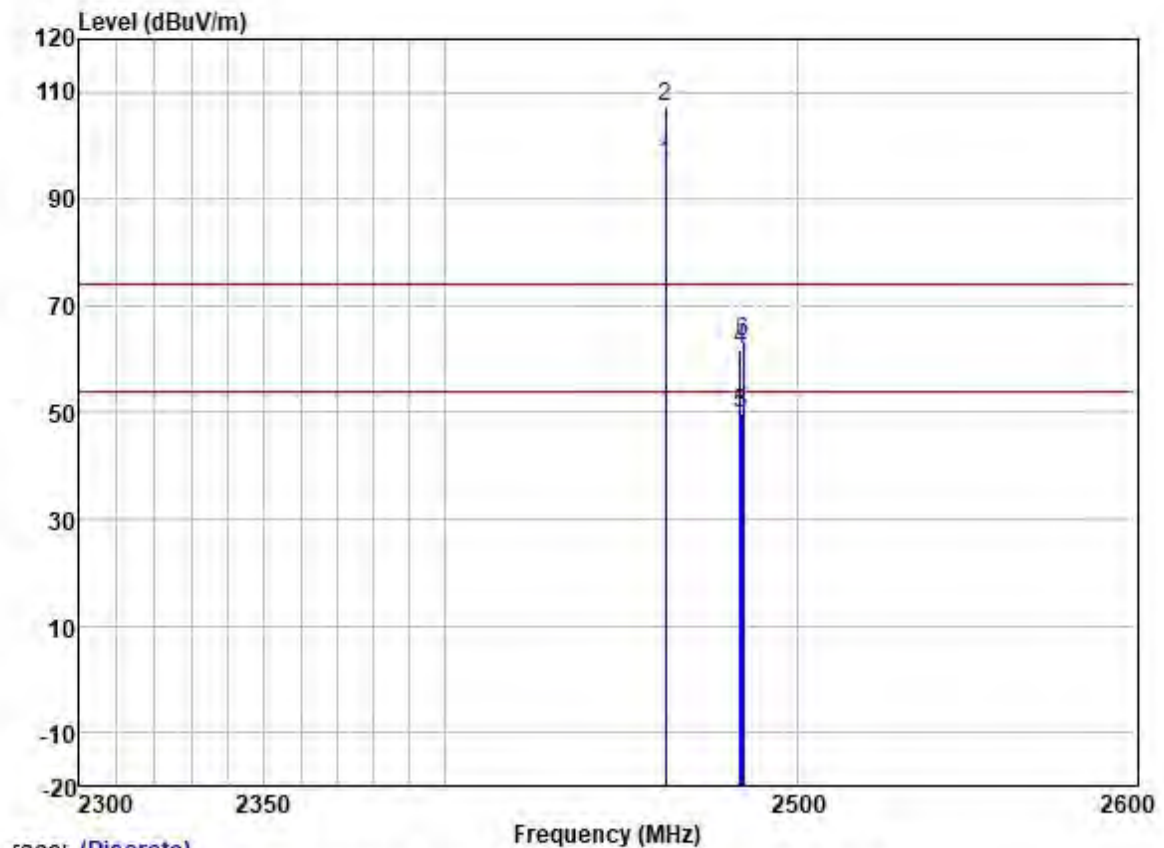
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2462.000	99.89	27.45	3.50	37.58	93.26	54.00	39.26	HORIZONTAL Average
2 *	2462.000	110.33	27.45	3.50	37.58	103.70	74.00	29.70	HORIZONTAL Peak
3	2483.500	55.46	27.48	3.53	37.57	48.90	54.00	-5.10	HORIZONTAL Average
4	2483.500	67.47	27.48	3.53	37.57	60.91	74.00	-13.09	HORIZONTAL Peak
5	2483.790	55.50	27.48	3.53	37.57	48.94	54.00	-5.06	HORIZONTAL Average
6	2486.953	69.77	27.48	3.53	37.57	63.21	74.00	-10.79	HORIZONTAL Peak

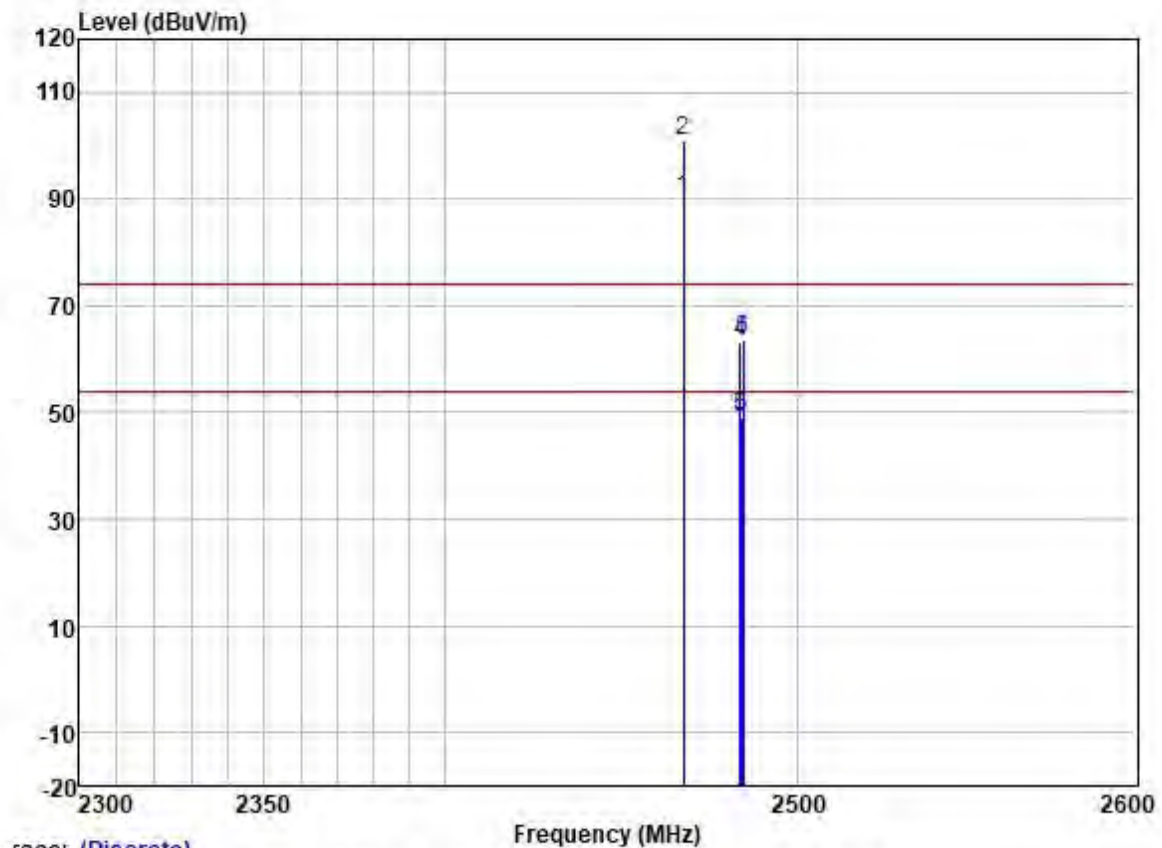
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	103.09	27.45	3.50	37.58	96.46	54.00	42.46	VERTICAL	Average
2 *	2462.000	114.07	27.45	3.50	37.58	107.44	74.00	33.44	VERTICAL	Peak
3	2483.500	56.28	27.48	3.53	37.57	49.72	54.00	-4.28	VERTICAL	Average
4	2483.500	68.24	27.48	3.53	37.57	61.68	74.00	-12.32	VERTICAL	Peak
5	2483.890	56.32	27.48	3.53	37.57	49.76	54.00	-4.24	VERTICAL	Average
6	2484.442	69.73	27.48	3.53	37.57	63.17	74.00	-10.83	VERTICAL	Peak

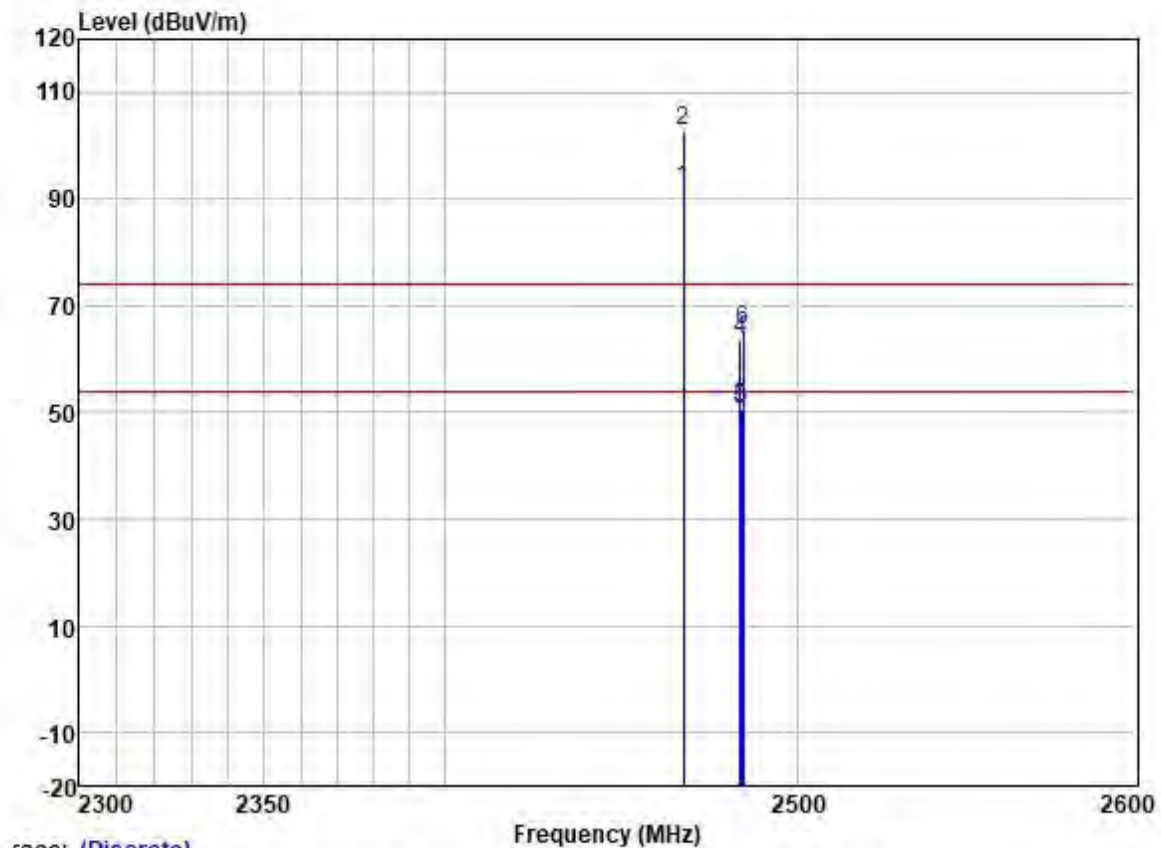
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 *	2467.000	96.91	27.45	3.50	37.57	90.29	54.00	36.29
2 *	2467.000	107.71	27.45	3.50	37.57	101.09	74.00	27.09
3	2483.500	55.93	27.48	3.53	37.57	49.37	54.00	-4.63
4	2483.500	69.70	27.48	3.53	37.57	63.14	74.00	-10.86
5	2483.886	55.68	27.48	3.53	37.57	49.12	54.00	-4.88
6	2484.337	70.26	27.48	3.53	37.57	63.70	74.00	-10.30

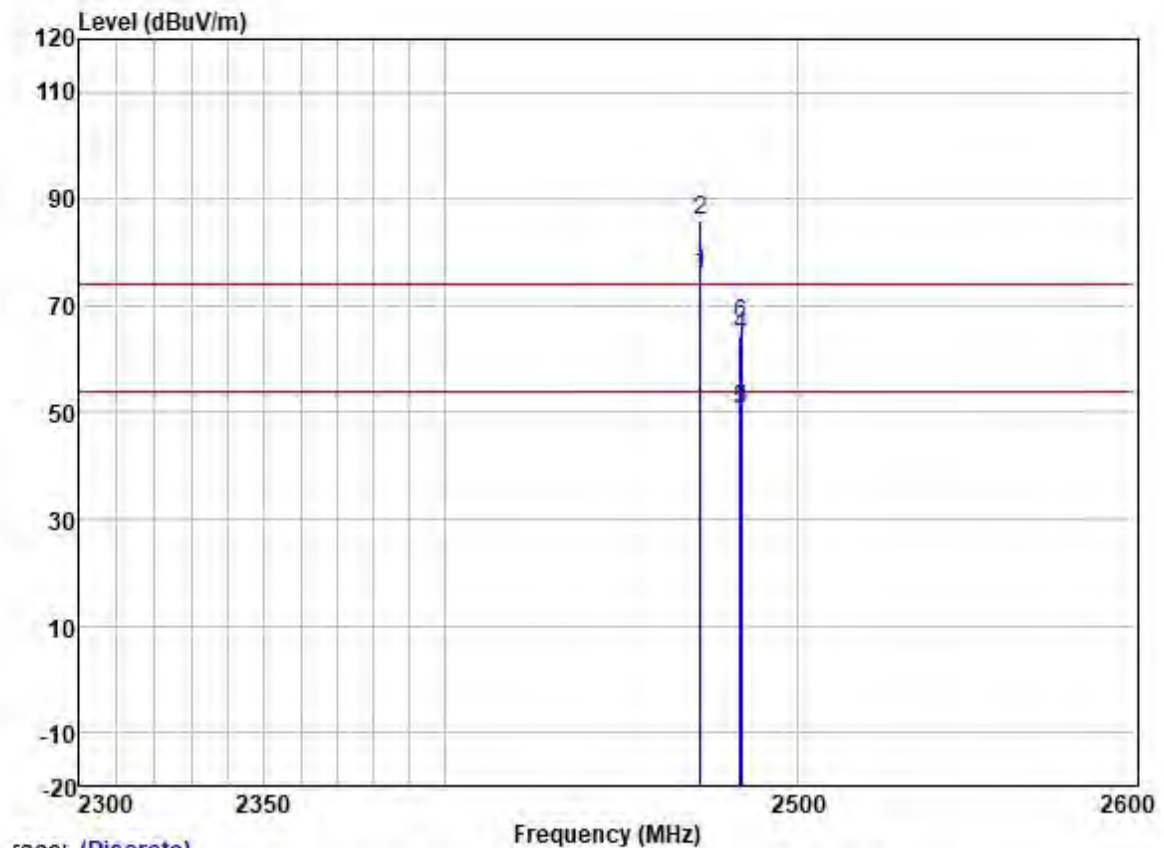
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Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2467.000	98.70	27.45	3.50	37.57	92.08	54.00	38.08	VERTICAL	Average
2 *	2467.000	109.58	27.45	3.50	37.57	102.96	74.00	28.96	VERTICAL	Peak
3	2483.500	57.60	27.48	3.53	37.57	51.04	54.00	-2.96	VERTICAL	Average
4	2483.500	70.07	27.48	3.53	37.57	63.51	74.00	-10.49	VERTICAL	Peak
5	2483.796	57.07	27.48	3.53	37.57	50.51	54.00	-3.49	VERTICAL	Average
6	2484.337	72.20	27.48	3.53	37.57	65.64	74.00	-8.36	VERTICAL	Peak

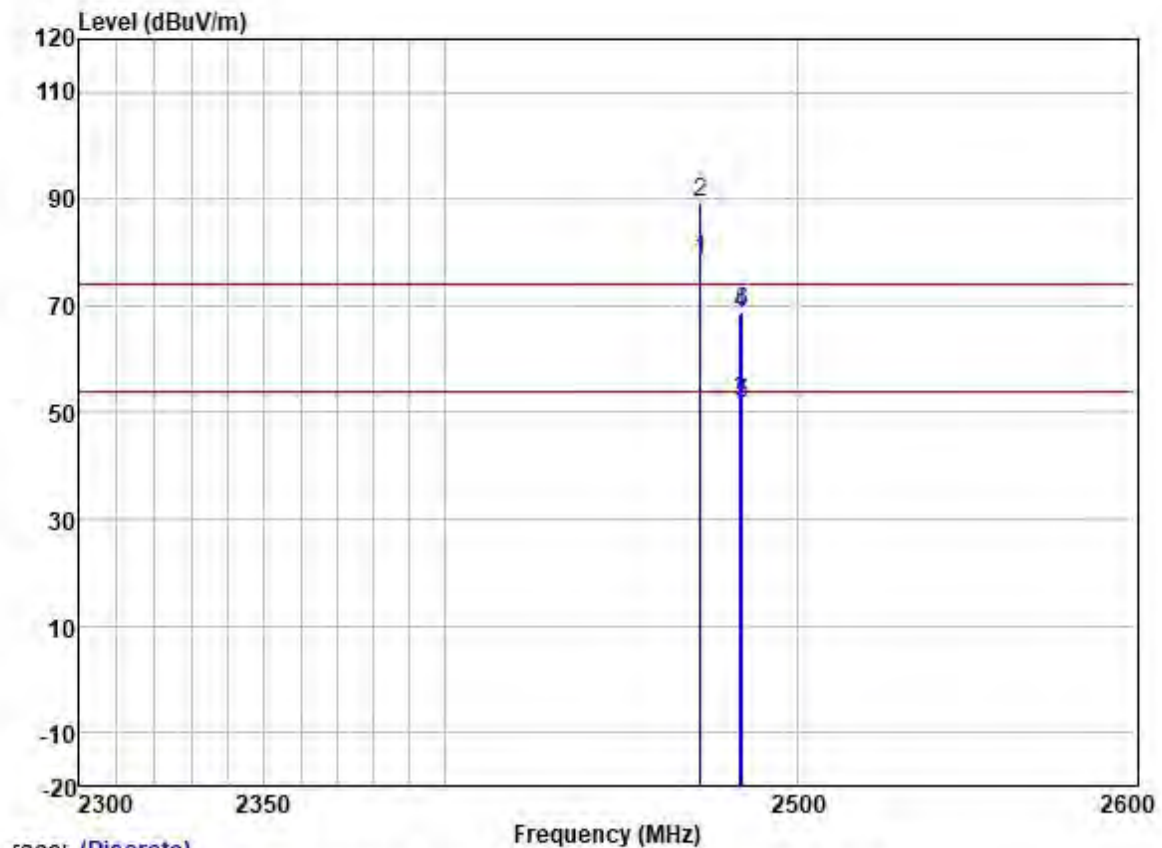
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2472.000	82.34	27.46	3.55	37.57	75.78	54.00	21.78	HORIZONTAL	Average
2 *	2472.000	92.60	27.46	3.55	37.57	86.04	74.00	12.04	HORIZONTAL	Peak
3	2483.500	57.11	27.48	3.53	37.57	50.55	54.00	-3.45	HORIZONTAL	Average
4	2483.500	70.90	27.48	3.53	37.57	64.34	74.00	-9.66	HORIZONTAL	Peak
5	2483.762	57.02	27.48	3.53	37.57	50.46	54.00	-3.54	HORIZONTAL	Average
6	2483.802	73.14	27.48	3.53	37.57	66.58	74.00	-7.42	HORIZONTAL	Peak

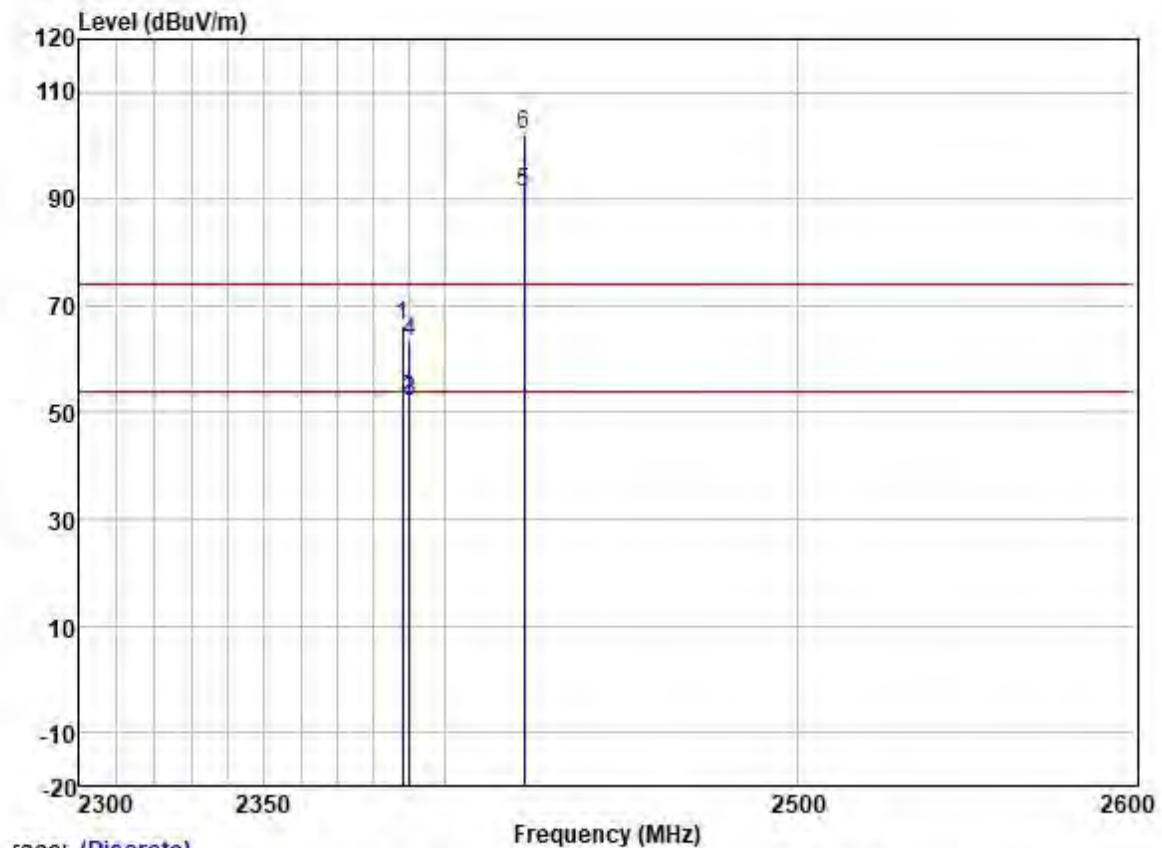
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2472.000	84.95	27.46	3.55	37.57	78.39	54.00	24.39	VERTICAL	Average
2 *	2472.000	95.94	27.46	3.55	37.57	89.38	74.00	15.38	VERTICAL	Peak
3	2483.500	58.71	27.48	3.53	37.57	52.15	54.00	-1.85	VERTICAL	Average
4	2483.500	74.97	27.48	3.53	37.57	68.41	74.00	-5.59	VERTICAL	Peak
5	2483.963	58.30	27.48	3.53	37.57	51.74	54.00	-2.26	VERTICAL	Average
6	2484.123	75.58	27.48	3.53	37.57	69.02	74.00	-4.98	VERTICAL	Peak

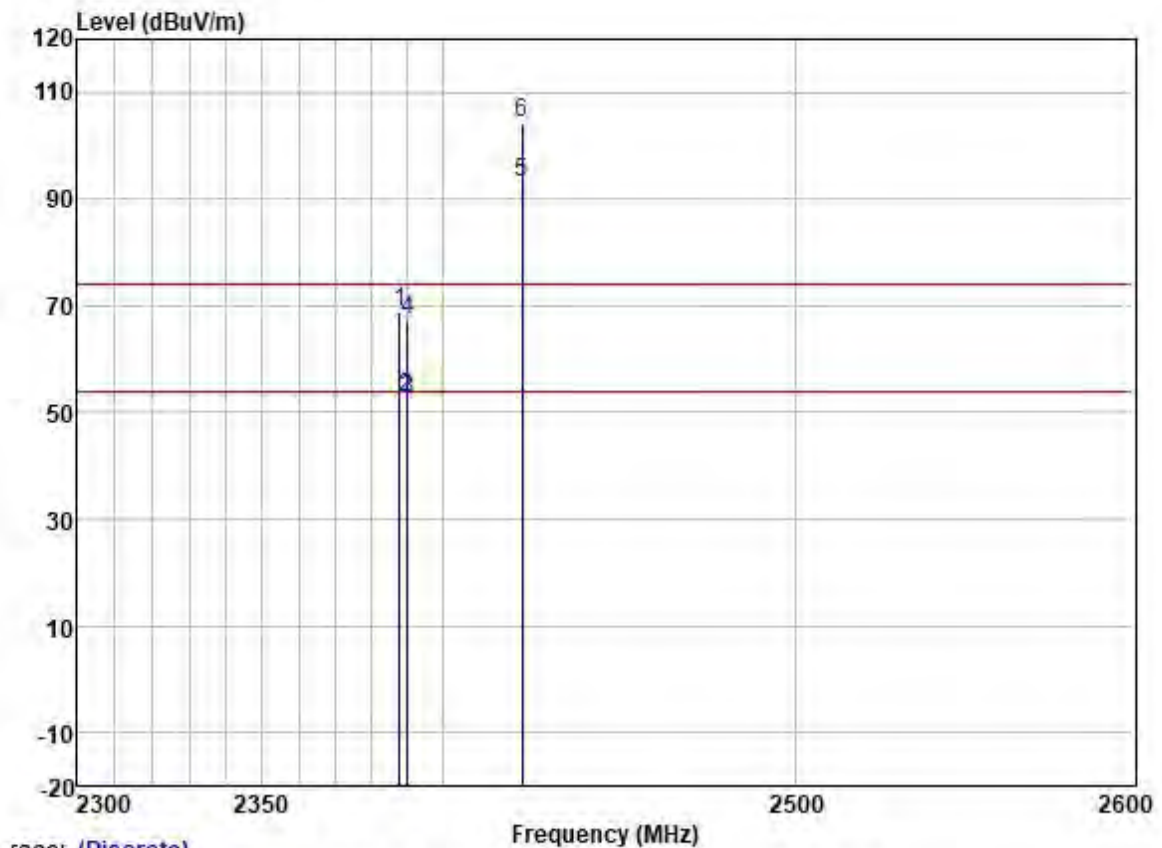
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2388.023	72.86	27.33	3.48	37.59	66.08	74.00	-7.92	HORIZONTAL	Peak
2	2389.526	59.33	27.33	3.48	37.59	52.55	54.00	-1.45	HORIZONTAL	Average
3	2390.000	58.80	27.33	3.48	37.59	52.02	54.00	-1.98	HORIZONTAL	Average
4	2390.000	70.01	27.33	3.48	37.59	63.23	74.00	-10.77	HORIZONTAL	Peak
5 *	2422.000	98.04	27.39	3.45	37.58	91.30	54.00	37.30	HORIZONTAL	Average
6 *	2422.000	108.65	27.39	3.45	37.58	101.91	74.00	27.91	HORIZONTAL	Peak

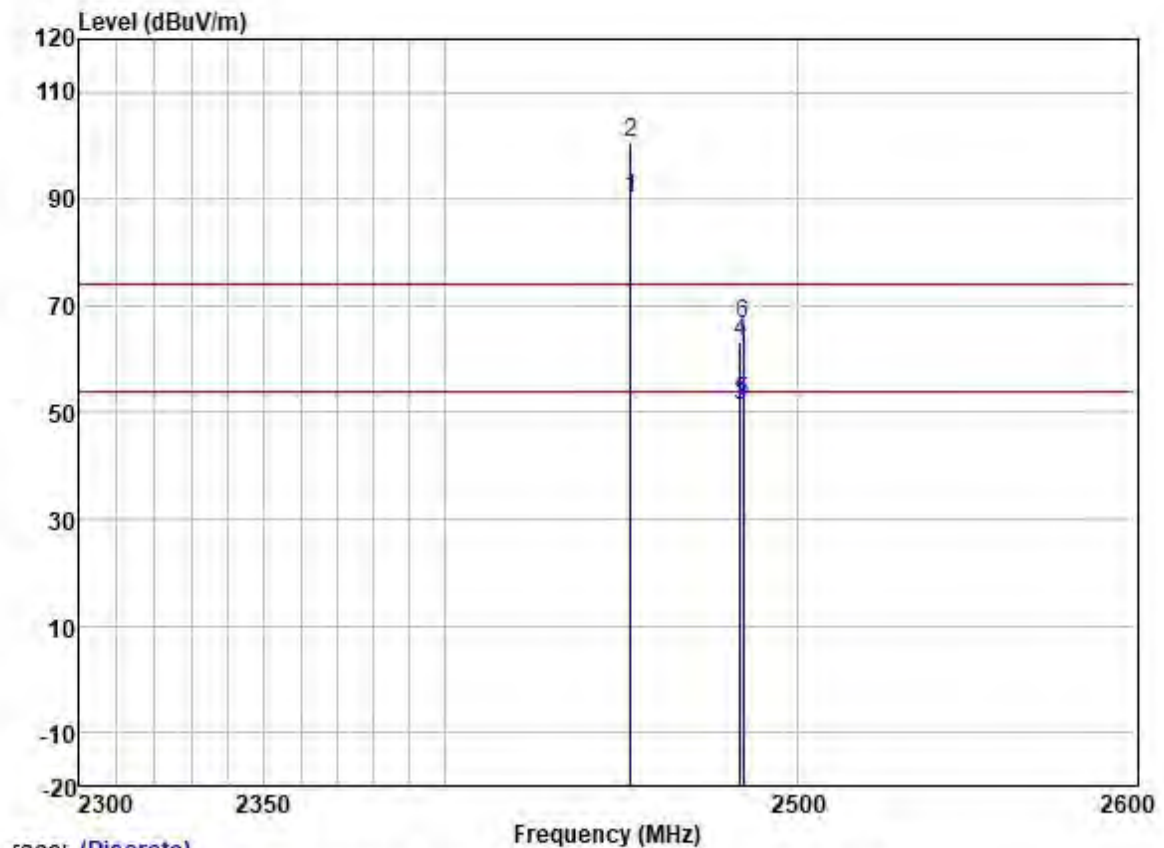
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2387.723	75.54	27.33	3.48	37.59	68.76	74.00	-5.24	VERTICAL	Peak
2	2389.526	59.59	27.33	3.48	37.59	52.81	54.00	-1.19	VERTICAL	Average
3	2390.000	59.33	27.33	3.48	37.59	52.55	54.00	-1.45	VERTICAL	Average
4	2390.000	74.05	27.33	3.48	37.59	67.27	74.00	-6.73	VERTICAL	Peak
5 *	2422.000	100.02	27.39	3.45	37.58	93.28	54.00	39.28	VERTICAL	Average
6 *	2422.000	110.95	27.39	3.45	37.58	104.21	74.00	30.21	VERTICAL	Peak

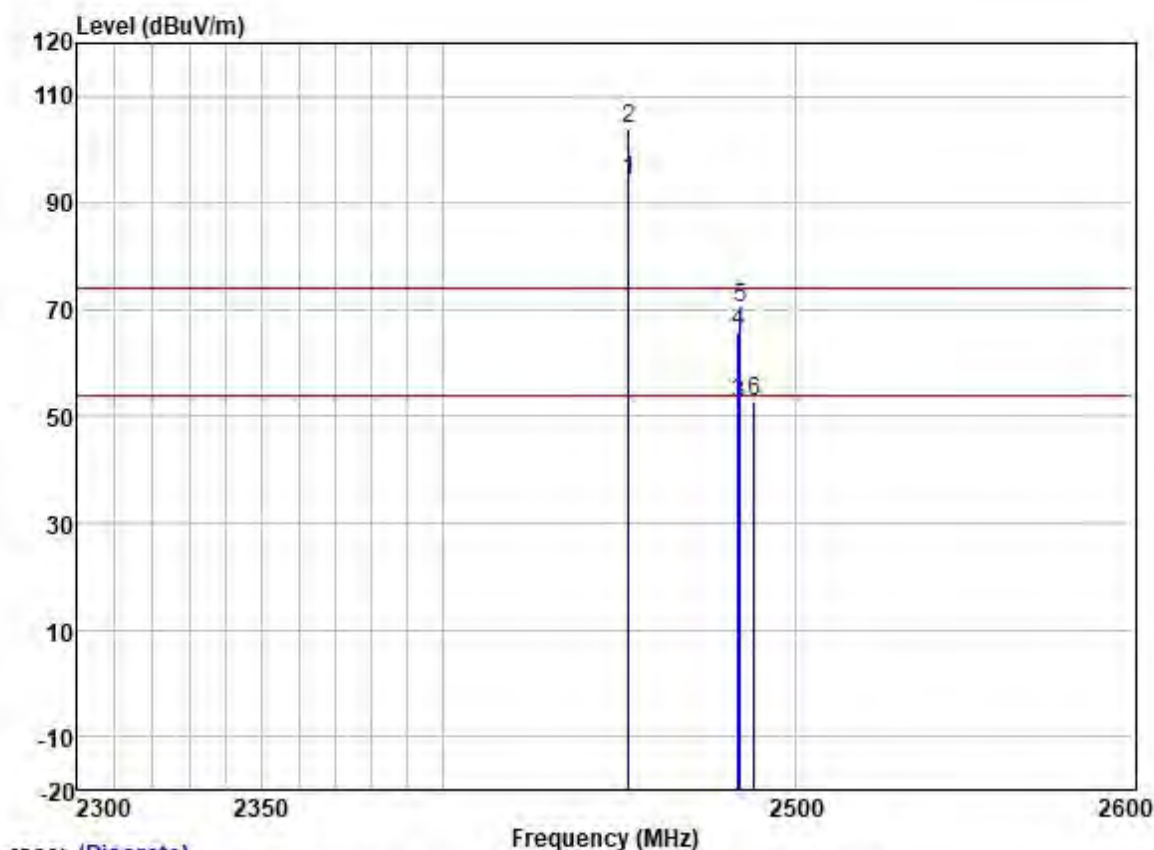
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 *	2452.000	97.05	27.43	3.40	37.58	90.30	54.00	36.30 HORIZONTAL
2 *	2452.000	107.15	27.43	3.40	37.58	100.40	74.00	26.40 HORIZONTAL
3	2483.500	57.90	27.48	3.53	37.57	51.34	54.00	-2.66 HORIZONTAL
4	2483.500	69.75	27.48	3.53	37.57	63.19	74.00	-10.81 HORIZONTAL
5	2484.358	58.47	27.48	3.53	37.57	51.91	54.00	-2.09 HORIZONTAL
6	2484.429	73.22	27.48	3.53	37.57	66.66	74.00	-7.34 HORIZONTAL

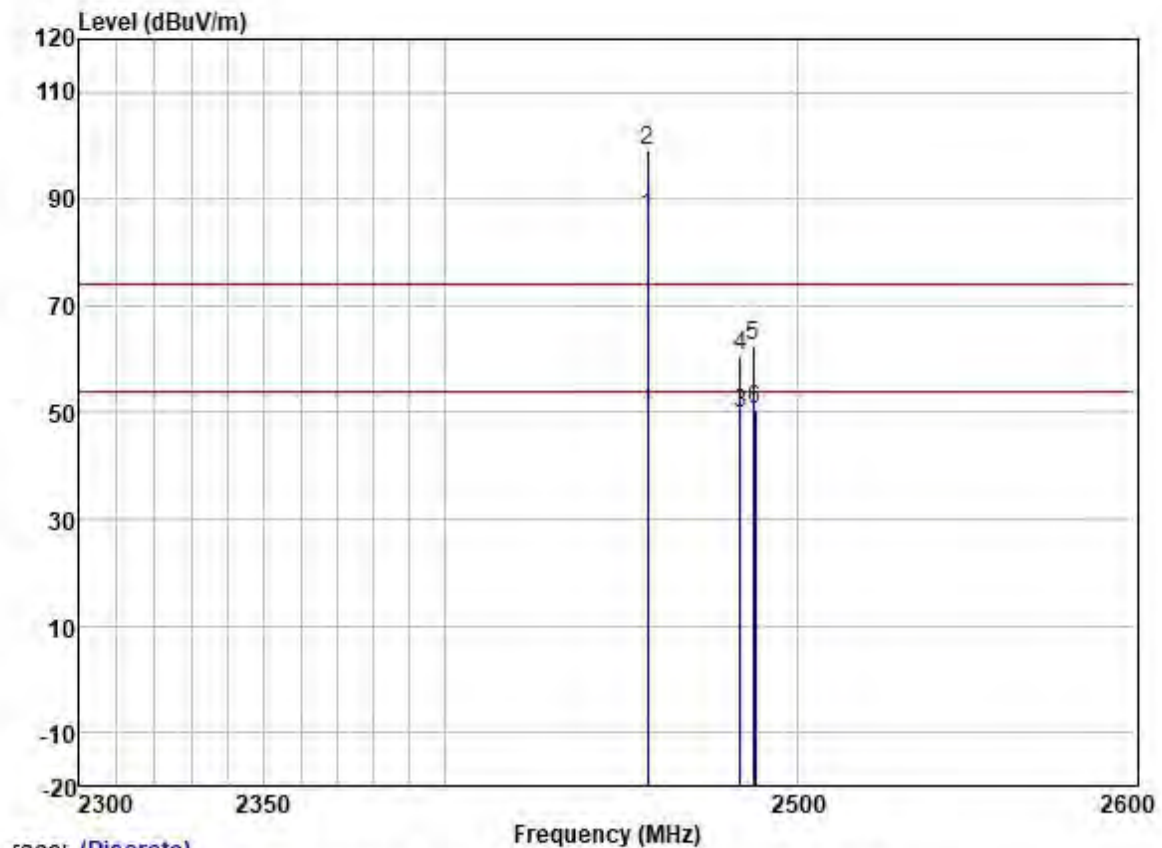
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2452.000	100.93	27.43	3.40	37.58	94.18	54.00	40.18	VERTICAL Average
2 *	2452.000	110.71	27.43	3.40	37.58	103.96	74.00	29.96	VERTICAL Peak
3	2483.500	58.82	27.48	3.53	37.57	52.26	54.00	-1.74	VERTICAL Average
4	2483.500	72.48	27.48	3.53	37.57	65.92	74.00	-8.08	VERTICAL Peak
5	2483.935	77.01	27.48	3.53	37.57	70.45	74.00	-3.55	VERTICAL Peak
6	2488.101	59.23	27.48	3.53	37.56	52.68	54.00	-1.32	VERTICAL Average

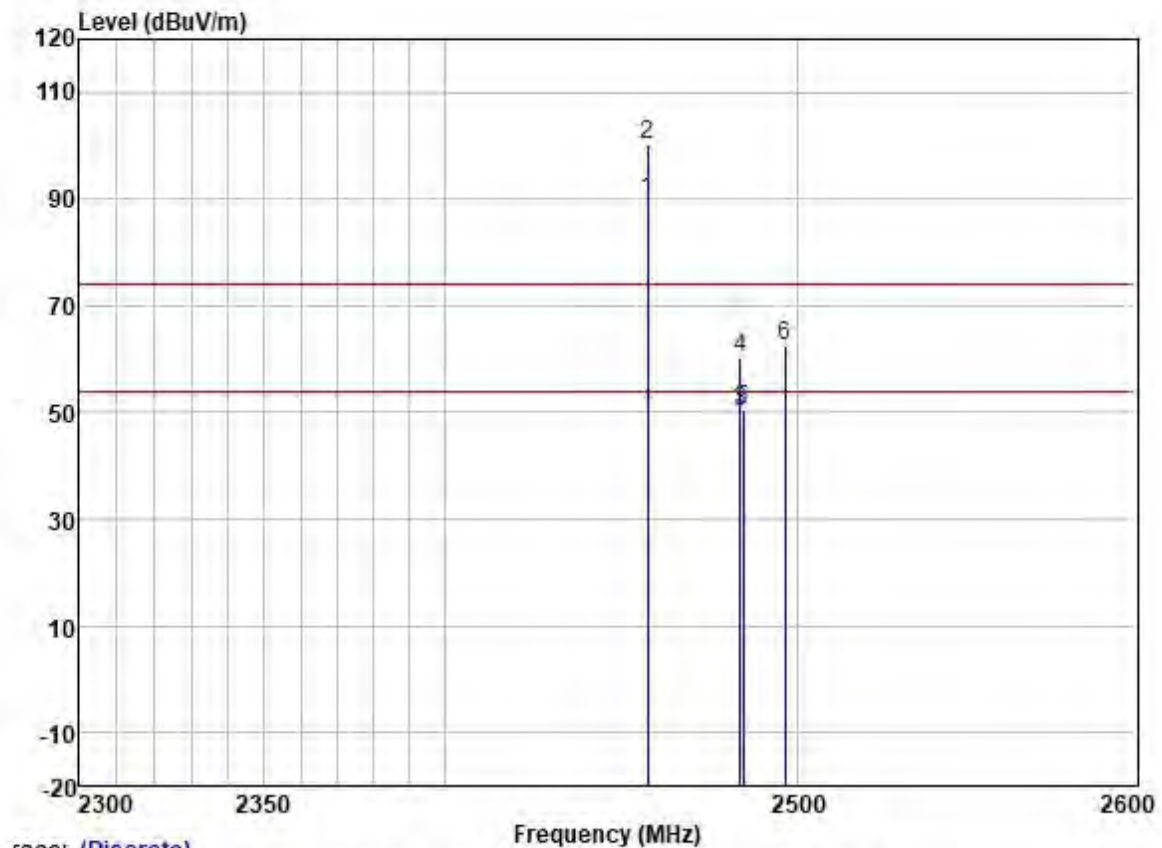
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2457.000	93.42	27.44	3.45	37.58	86.73	54.00	32.73	HORIZONTAL Average
2 *	2457.000	105.93	27.44	3.45	37.58	99.24	74.00	25.24	HORIZONTAL Peak
3	2483.500	56.23	27.48	3.53	37.57	49.67	54.00	-4.33	HORIZONTAL Average
4	2483.500	67.16	27.48	3.53	37.57	60.60	74.00	-13.40	HORIZONTAL Peak
5	2487.125	69.24	27.48	3.53	37.57	62.68	74.00	-11.32	HORIZONTAL Peak
6	2487.780	57.01	27.48	3.53	37.56	50.46	54.00	-3.54	HORIZONTAL Average

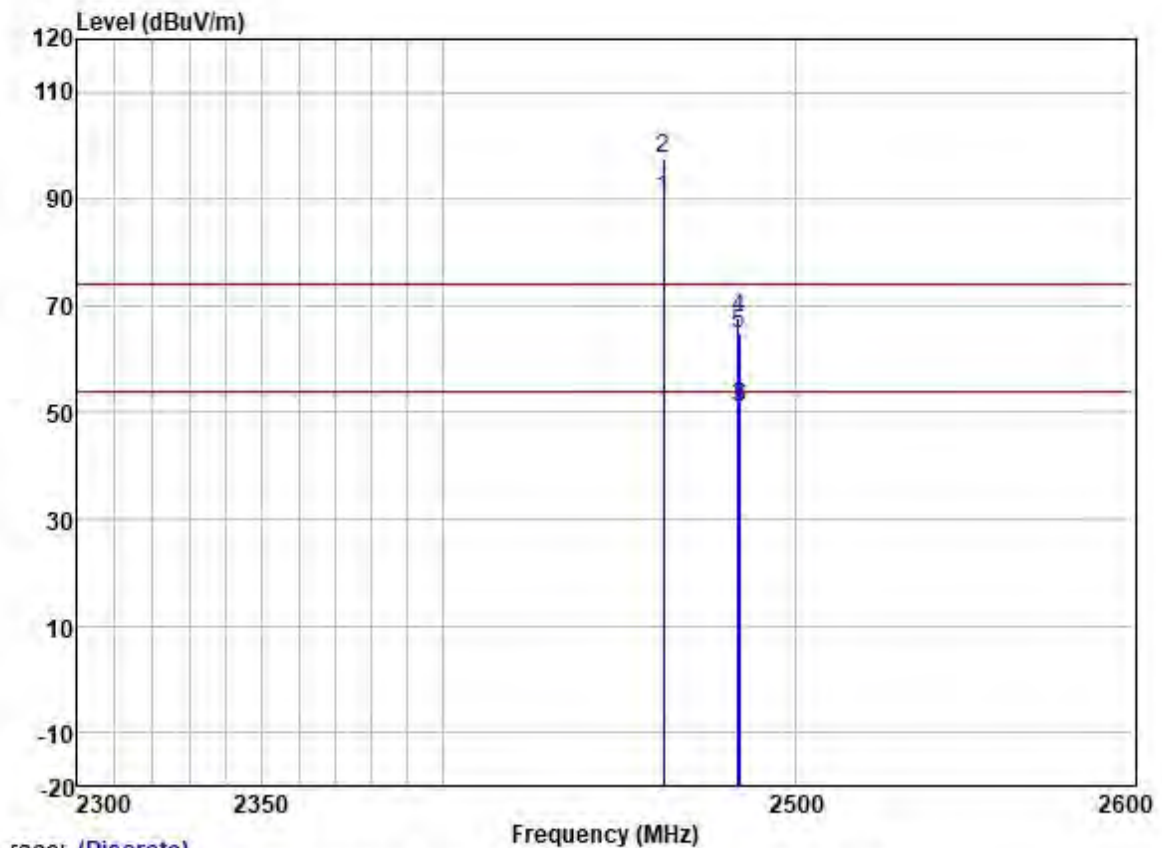
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2457.000	96.43	27.44	3.45	37.58	89.74	54.00	35.74	VERTICAL Average
2 *	2457.000	107.07	27.44	3.45	37.58	100.38	74.00	26.38	VERTICAL Peak
3	2483.500	56.81	27.48	3.53	37.57	50.25	54.00	-3.75	VERTICAL Average
4	2483.500	66.79	27.48	3.53	37.57	60.23	74.00	-13.77	VERTICAL Peak
5	2484.243	57.16	27.48	3.53	37.57	50.60	54.00	-3.40	VERTICAL Average
6	2496.314	69.14	27.50	3.40	37.56	62.48	74.00	-11.52	VERTICAL Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.000	96.92	27.45	3.50	37.58	90.29	54.00	36.29	HORIZONTAL Average
2 *	2462.000	104.05	27.45	3.50	37.58	97.42	74.00	23.42	HORIZONTAL Peak
3	2483.500	57.45	27.48	3.53	37.57	50.89	54.00	-3.11	HORIZONTAL Average
4	2483.500	74.20	27.48	3.53	37.57	67.64	74.00	-6.36	HORIZONTAL Peak
5	2483.837	71.46	27.48	3.53	37.57	64.90	74.00	-9.10	HORIZONTAL Peak
6	2483.897	57.53	27.48	3.53	37.57	50.97	54.00	-3.03	HORIZONTAL Average

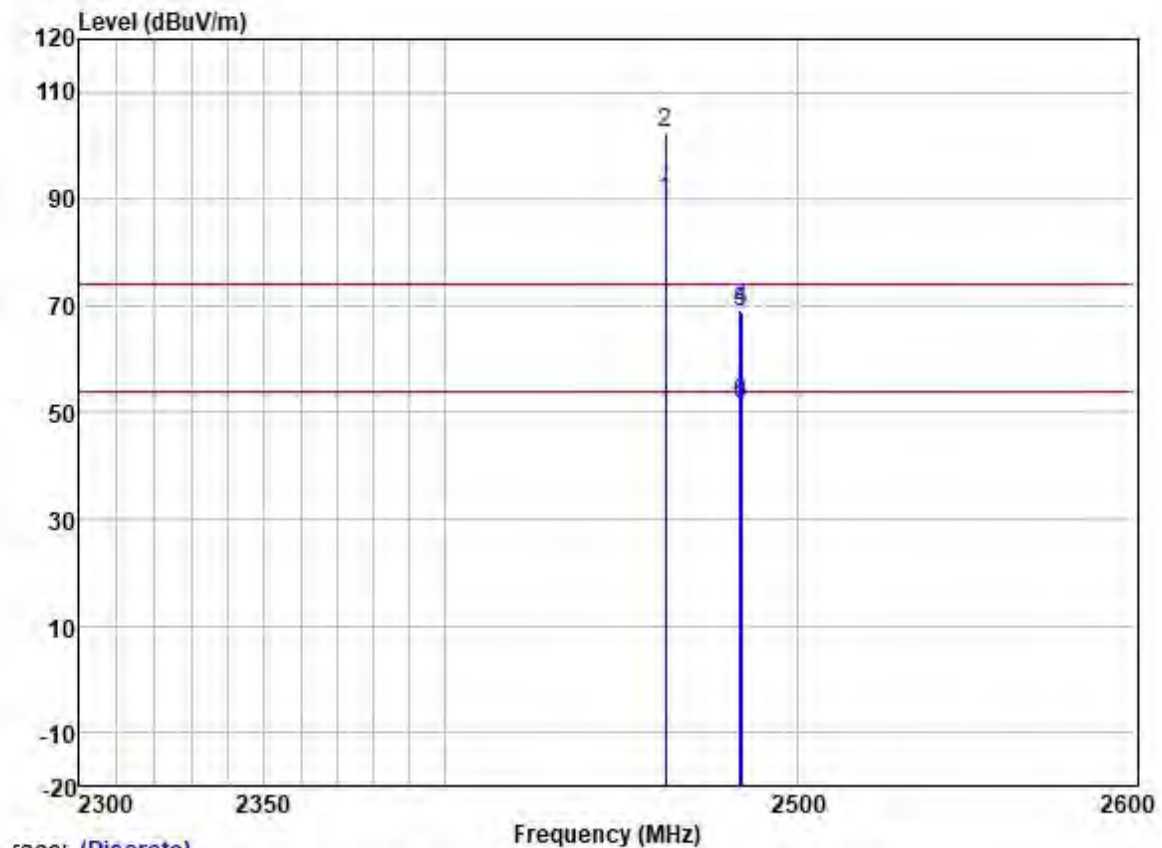


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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	96.29	27.45	3.50	37.58	89.66	54.00	35.66	VERTICAL	Average
2 *	2462.000	108.91	27.45	3.50	37.58	102.28	74.00	28.28	VERTICAL	Peak
3	2483.500	58.30	27.48	3.53	37.57	51.74	54.00	-2.26	VERTICAL	Average
4	2483.500	75.74	27.48	3.53	37.57	69.18	74.00	-4.82	VERTICAL	Peak
5	2483.777	75.26	27.48	3.53	37.57	68.70	74.00	-5.30	VERTICAL	Peak
6	2483.837	58.06	27.48	3.53	37.57	51.50	54.00	-2.50	VERTICAL	Average

7.3 Radiated Spurious Emissions (Below 1GHz)

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

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

Limit:

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

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

7.3.1 E.U.T. Operation

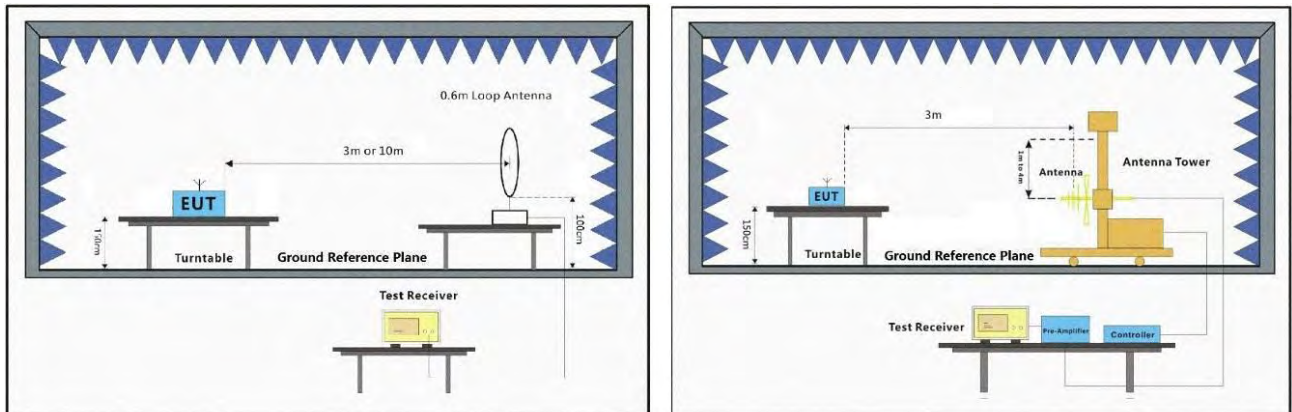
Operating Environment:

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

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

Remark:

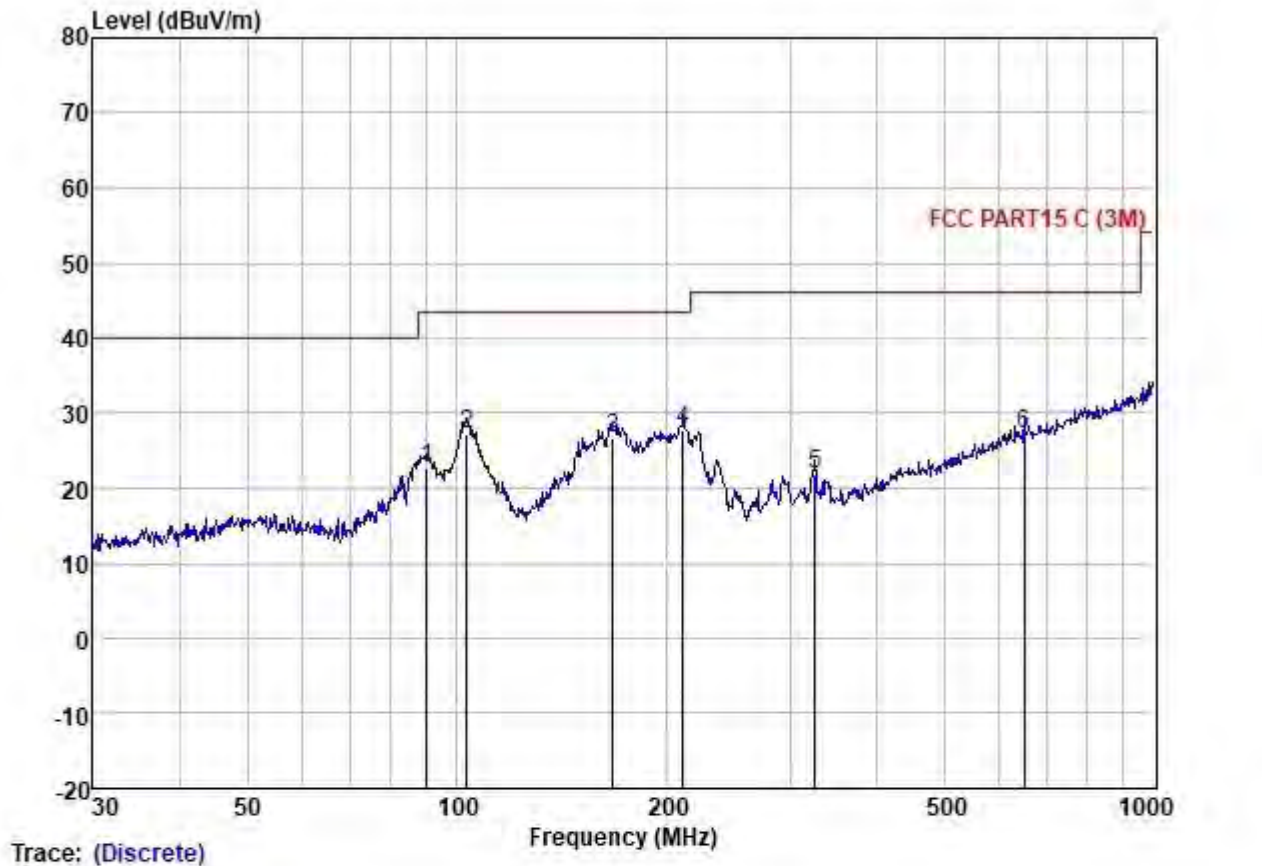
1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

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

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

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

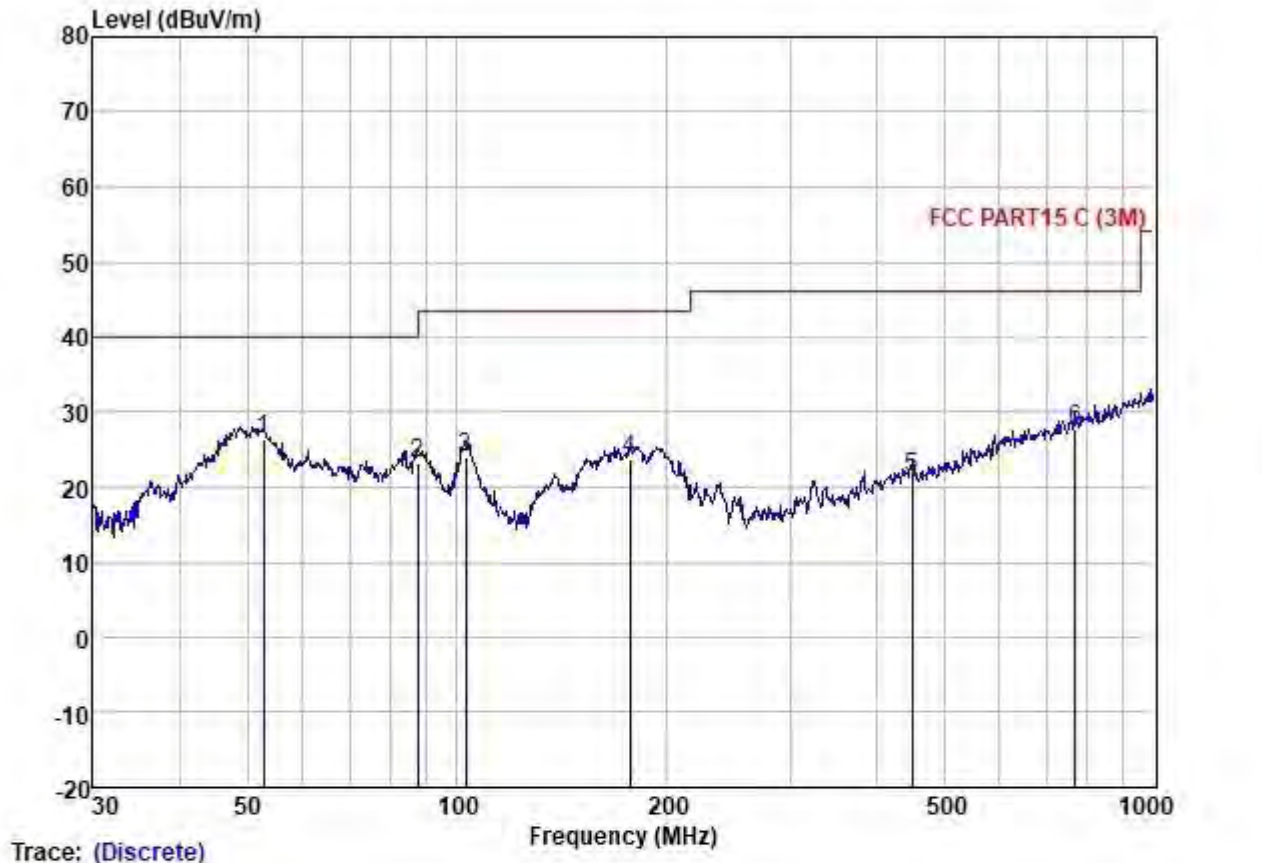
Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	90.54	40.14	7.90	1.62	27.09	22.57	43.50	-20.93	HORIZONTAL	QP
2	103.08	42.95	9.60	1.74	27.07	27.22	43.50	-16.28	HORIZONTAL	QP
3	167.24	37.74	13.33	2.38	26.78	26.67	43.50	-16.83	HORIZONTAL	QP
4	210.79	42.19	9.80	2.59	26.72	27.86	43.50	-15.64	HORIZONTAL	QP
5	326.74	30.76	14.43	3.38	26.71	21.86	46.00	-24.14	HORIZONTAL	QP
6	651.94	29.39	20.52	5.51	28.18	27.24	46.00	-18.76	HORIZONTAL	QP

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	52.76	38.48	13.92	1.17	27.17	26.40	40.00	-13.60	VERTICAL	QP
2	87.72	40.91	7.70	1.59	27.09	23.11	40.00	-16.89	VERTICAL	QP
3	102.72	39.90	9.53	1.74	27.07	24.10	43.50	-19.40	VERTICAL	QP
4	176.89	35.77	12.40	2.43	26.76	23.84	43.50	-19.66	VERTICAL	QP
5	449.56	27.62	17.30	4.19	27.70	21.41	46.00	-24.59	VERTICAL	QP
6	771.45	27.53	22.22	6.08	28.06	27.77	46.00	-18.23	VERTICAL	QP

7.4 Radiated Spurious Emissions (Above 1GHz)

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

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

Limit:

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

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

7.4.1 E.U.T. Operation

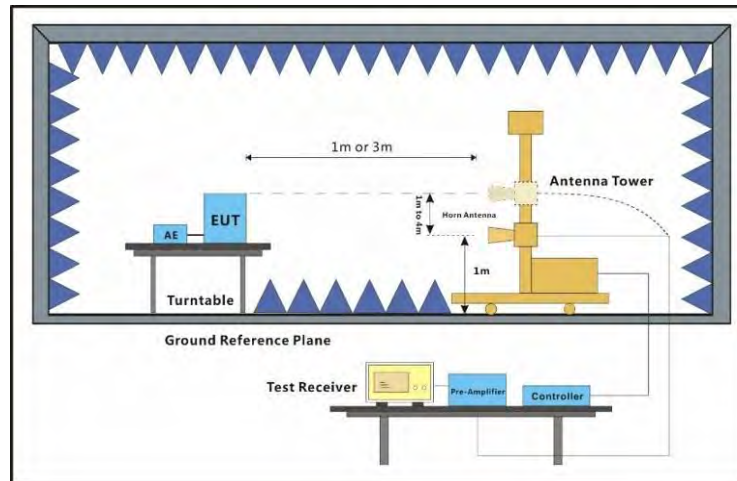
Operating Environment:

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

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Remark:

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

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

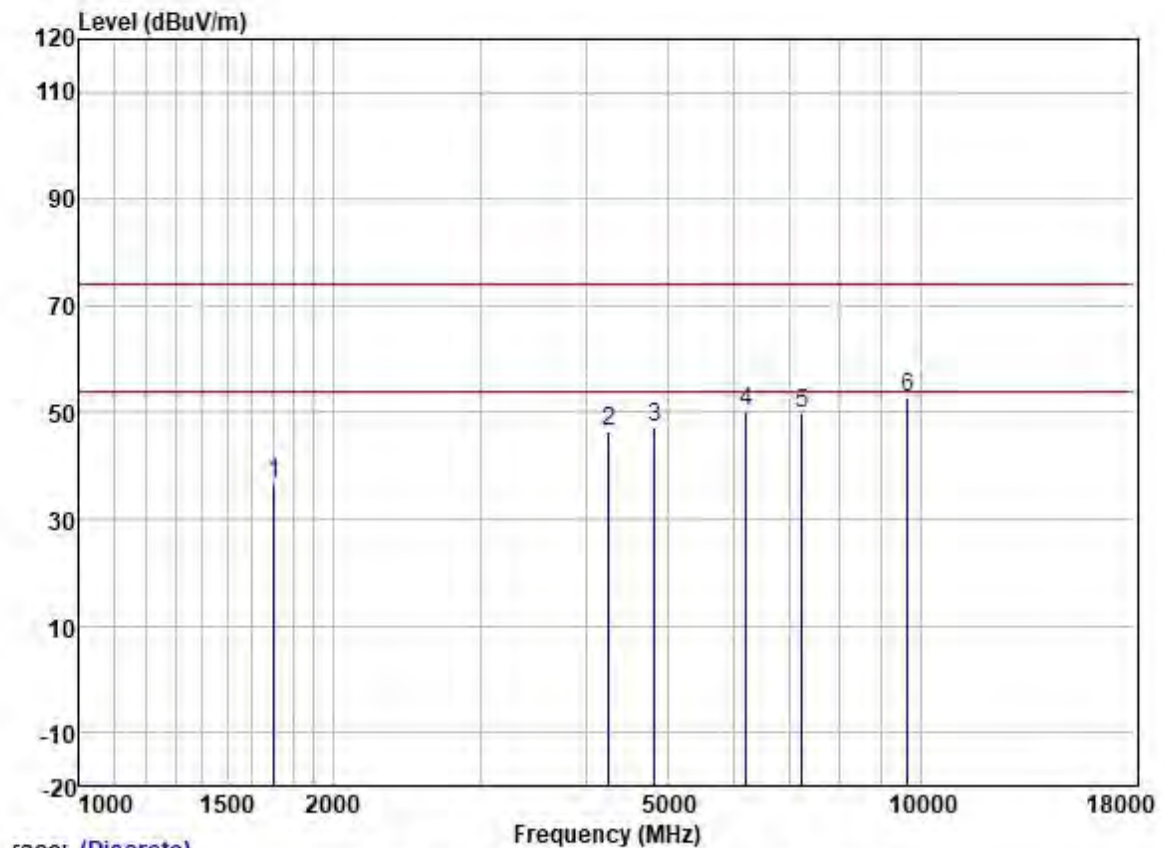
2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit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

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

4) Pretest the EUT at antenna 1 and antenna 2, found the antenna 1 which is worst case for 802.11b/g mode; Pretest the EUT at antenna 1, antenna 2 and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20/HT40 mode; only the worst test data is recorded in the report.



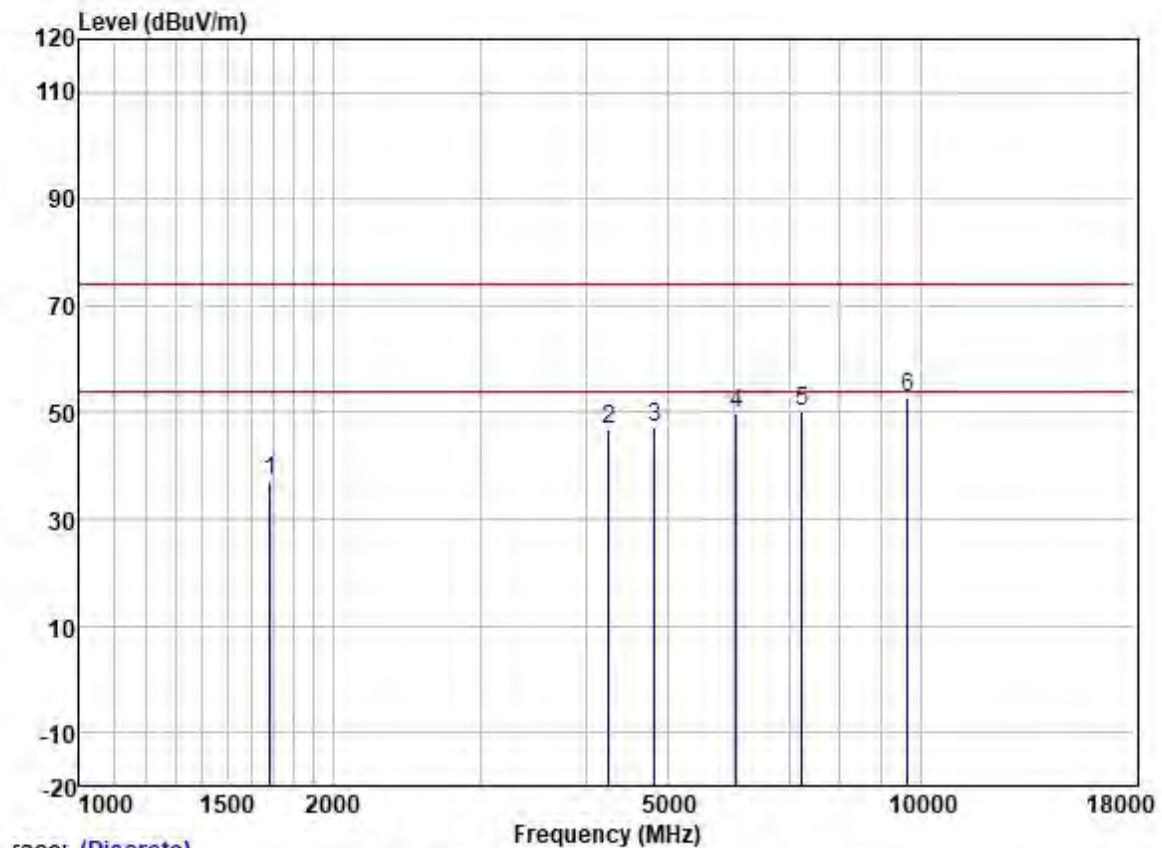
Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



race: (Discrete)

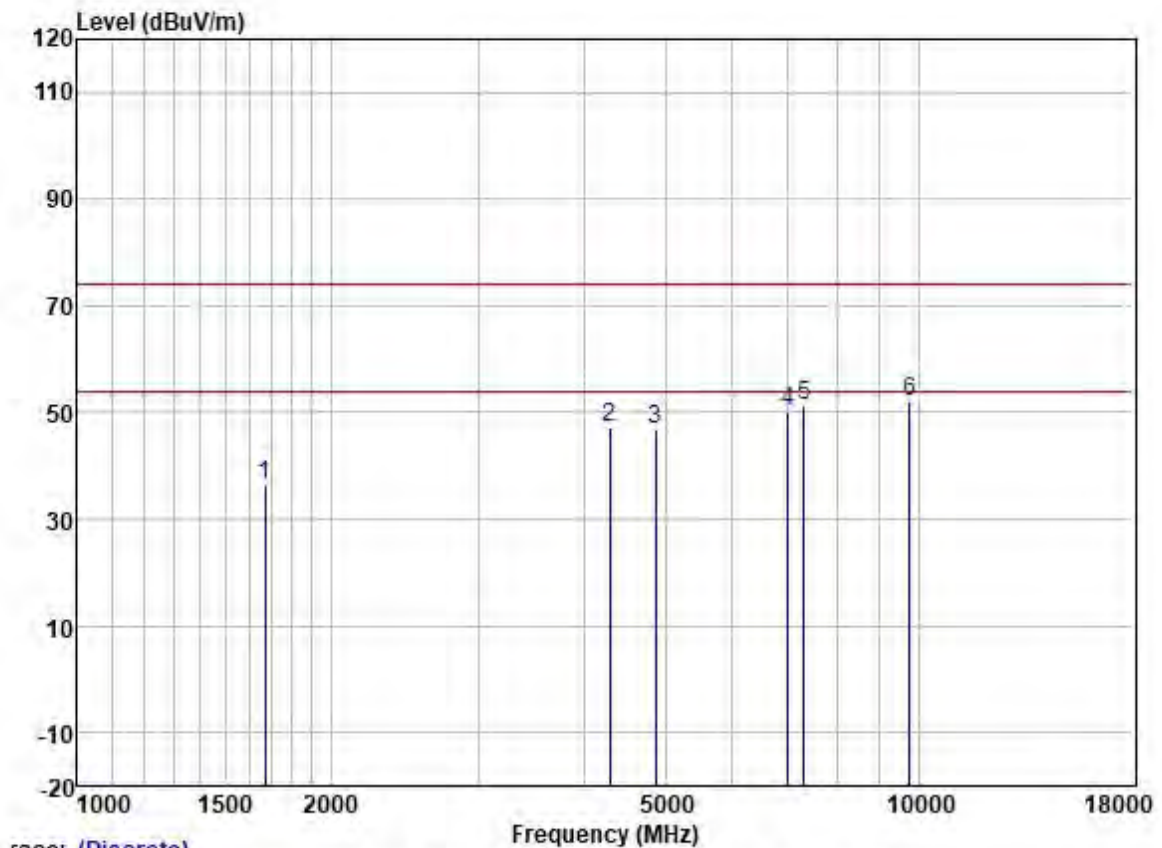
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark.
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	46.12	25.72	2.80	37.89	36.75	74.00	-37.25	HORIZONTAL	Peak
2	4254.921	48.25	30.34	4.62	36.81	46.40	74.00	-27.60	HORIZONTAL	Peak
3	4824.000	47.00	31.45	5.42	36.83	47.04	74.00	-26.96	HORIZONTAL	Peak
4	6213.441	47.86	33.03	6.06	36.94	50.01	74.00	-23.99	HORIZONTAL	Peak
5	7236.000	45.38	35.70	6.03	37.39	49.72	74.00	-24.28	HORIZONTAL	Peak
6	9648.000	44.67	38.40	7.06	37.42	52.71	74.00	-21.29	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



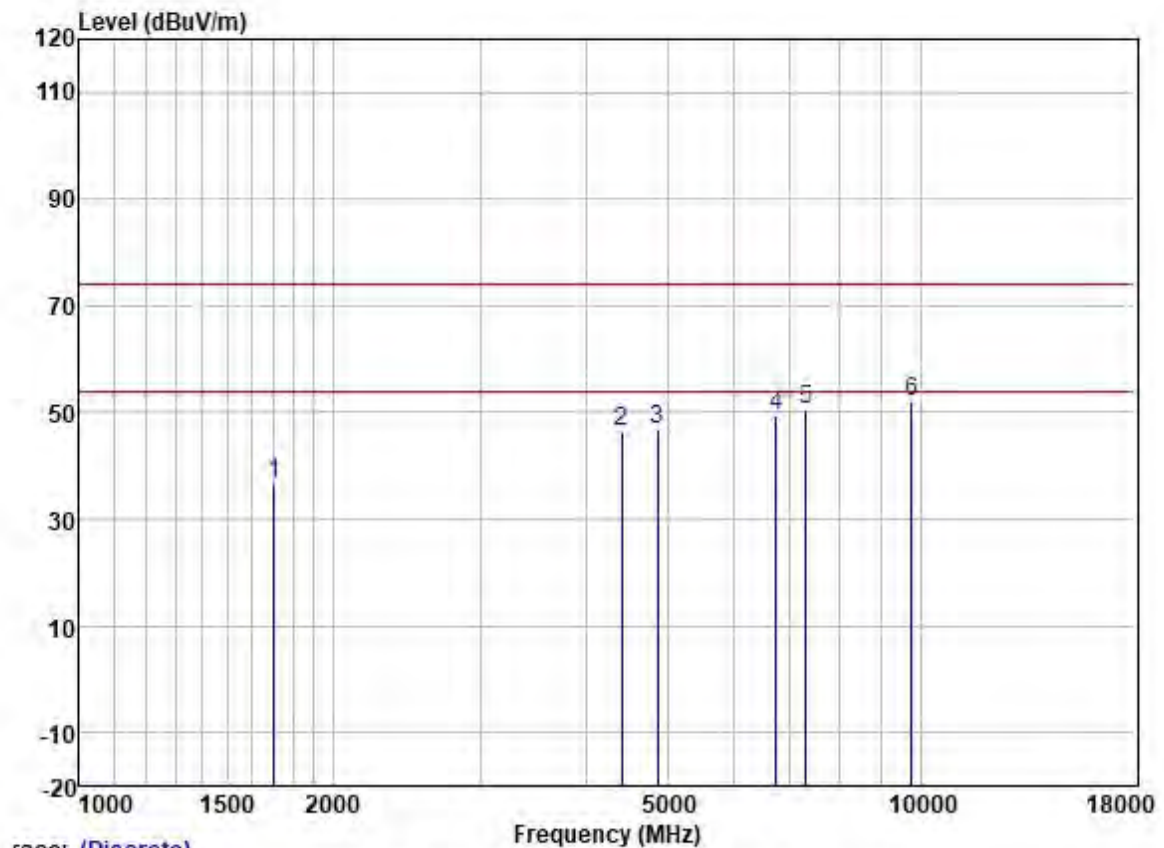
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	46.63	25.69	2.80	37.91	37.21	74.00	-36.79	VERTICAL	Peak
2	4254.921	48.71	30.34	4.62	36.81	46.86	74.00	-27.14	VERTICAL	Peak
3	4824.000	47.01	31.45	5.42	36.83	47.05	74.00	-26.95	VERTICAL	Peak
4	6036.421	48.01	32.48	6.18	36.90	49.77	74.00	-24.23	VERTICAL	Peak
5	7236.000	45.84	35.70	6.03	37.39	50.18	74.00	-23.82	VERTICAL	Peak
6	9648.000	44.64	38.40	7.06	37.42	52.68	74.00	-21.32	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



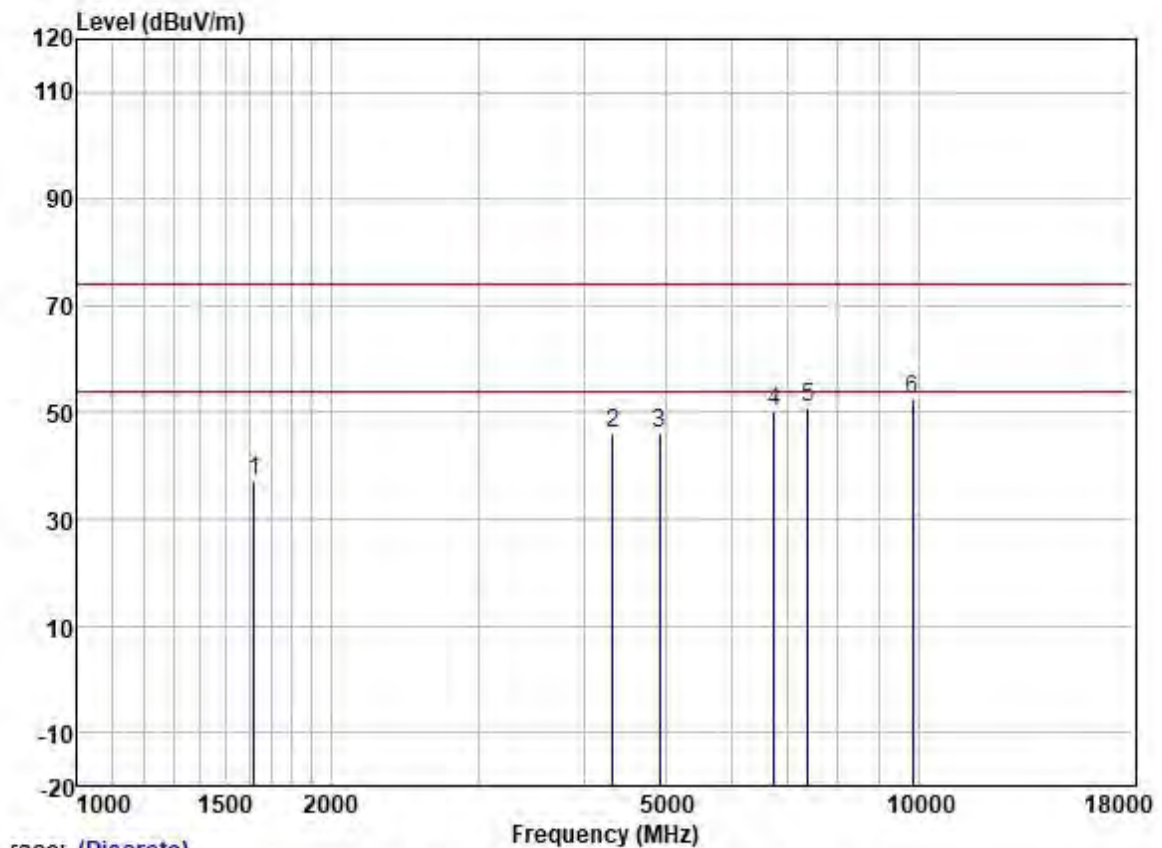
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark.
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	45.81	25.67	2.80	37.91	36.37	74.00	-37.63	HORIZONTAL	Peak
2	4291.977	49.09	30.45	4.64	36.81	47.37	74.00	-26.63	HORIZONTAL	Peak
3	4874.000	46.72	31.54	5.50	36.84	46.92	74.00	-27.08	HORIZONTAL	Peak
4	6995.172	46.77	35.00	5.81	37.25	50.33	74.00	-23.67	HORIZONTAL	Peak
5	7311.000	46.61	35.93	6.11	37.42	51.23	74.00	-22.77	HORIZONTAL	Peak
6	9748.000	43.90	38.50	7.02	37.41	52.01	74.00	-21.99	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; 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	1702.042	45.94	25.72	2.80	37.89	36.57	74.00	-37.43	VERTICAL	Peak
2	4417.841	47.68	30.70	4.74	36.81	46.31	74.00	-27.69	VERTICAL	Peak
3	4874.000	46.52	31.54	5.50	36.84	46.72	74.00	-27.28	VERTICAL	Peak
4	6737.207	46.38	34.50	5.82	37.09	49.61	74.00	-24.39	VERTICAL	Peak
5	7311.000	46.07	35.93	6.11	37.42	50.69	74.00	-23.31	VERTICAL	Peak
6	9748.000	43.98	38.50	7.02	37.41	52.09	74.00	-21.91	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1620.431	46.80	25.60	2.80	37.95	37.25	74.00	-36.75	HORIZONTAL	Peak
2	4329.354	47.61	30.54	4.67	36.81	46.01	74.00	-27.99	HORIZONTAL	Peak
3	4924.000	45.69	31.62	5.60	36.84	46.07	74.00	-27.93	HORIZONTAL	Peak
4	6737.207	46.97	34.50	5.82	37.09	50.20	74.00	-23.80	HORIZONTAL	Peak
5	7386.000	46.06	36.17	6.19	37.45	50.97	74.00	-23.03	HORIZONTAL	Peak
6	9848.000	44.29	38.58	6.99	37.41	52.45	74.00	-21.55	HORIZONTAL	Peak

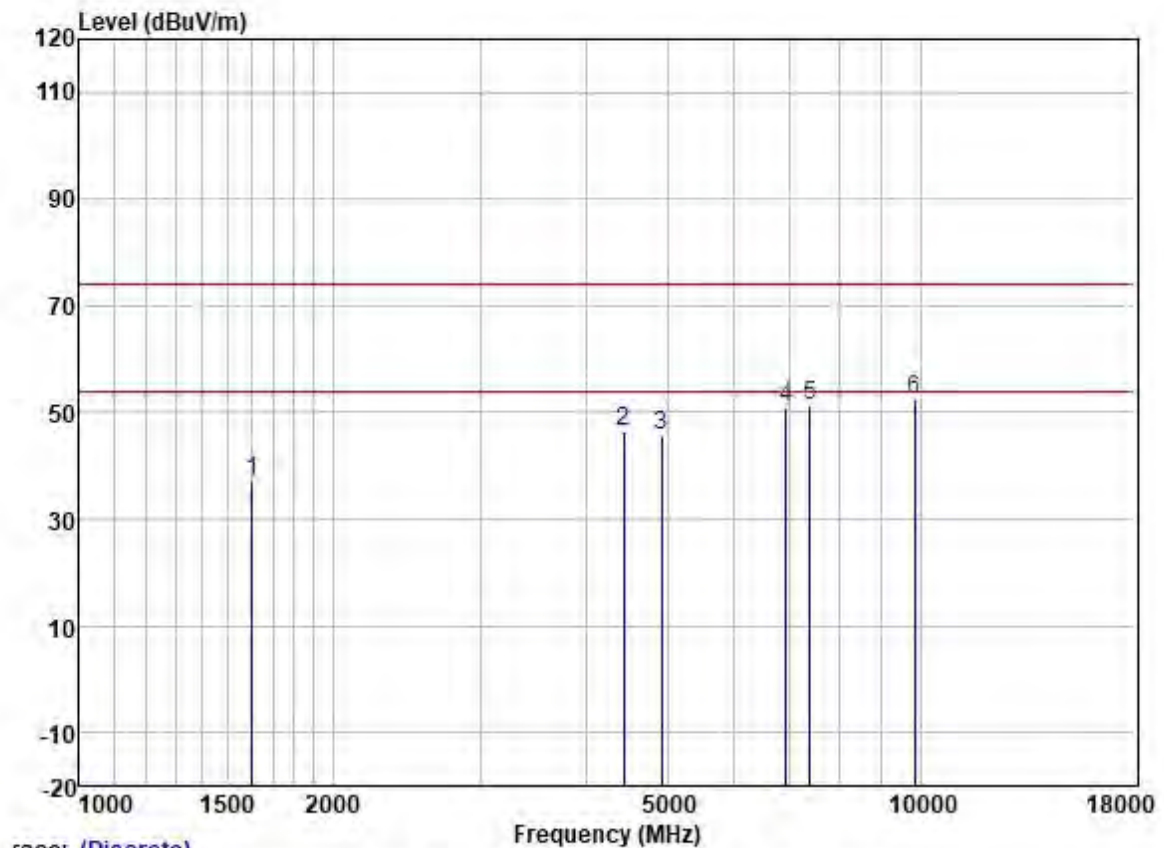


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SGS-CST Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

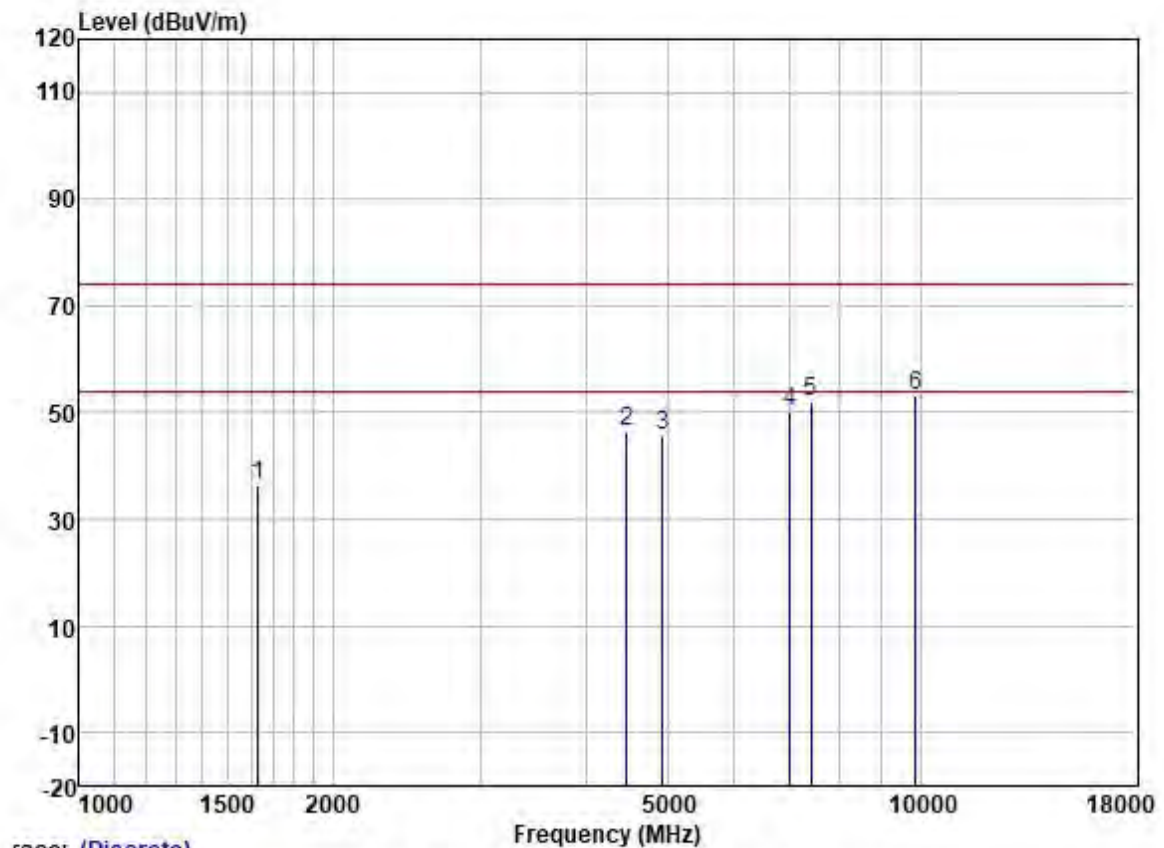


Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1606.441	46.70	25.59	2.80	37.98	37.11	74.00	-36.89	VERTICAL Peak
2	4443.453	47.64	30.73	4.83	36.81	46.39	74.00	-27.61	VERTICAL Peak
3	4924.000	45.38	31.62	5.60	36.84	45.76	74.00	-28.24	VERTICAL Peak
4	6914.763	47.45	34.89	5.81	37.19	50.96	74.00	-23.04	VERTICAL Peak
5	7386.000	46.35	36.17	6.19	37.45	51.26	74.00	-22.74	VERTICAL Peak
6	9848.000	44.36	38.58	6.99	37.41	52.52	74.00	-21.48	VERTICAL Peak

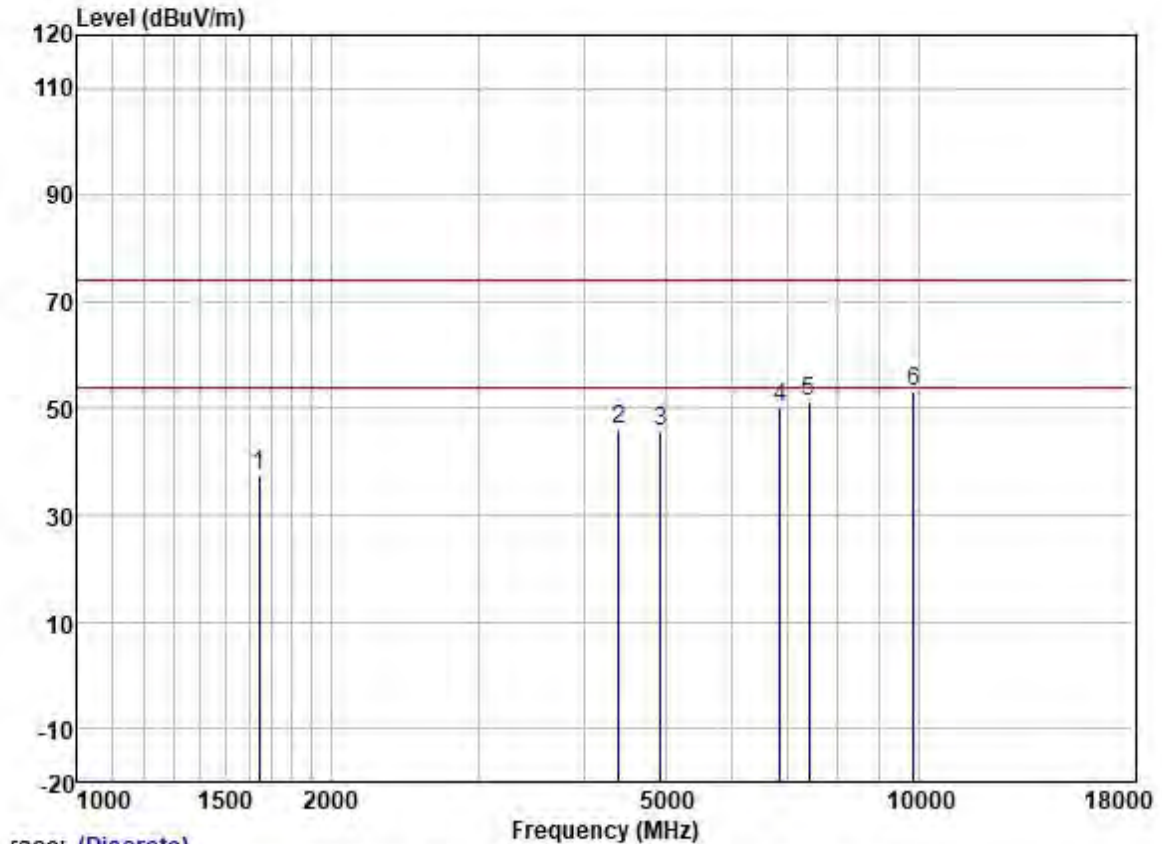


Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



		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	1629.825	45.92	25.61	2.80	37.95	36.38	74.00	-37.62	HORIZONTAL	Peak
2	4469.214	47.39	30.77	4.93	36.81	46.28	74.00	-27.72	HORIZONTAL	Peak
3	4934.000	45.26	31.62	5.60	36.84	45.64	74.00	-28.36	HORIZONTAL	Peak
4	6995.172	46.46	35.00	5.81	37.25	50.02	74.00	-23.98	HORIZONTAL	Peak
5	7401.000	46.93	36.22	6.20	37.46	51.89	74.00	-22.11	HORIZONTAL	Peak
6	9868.000	45.12	38.60	6.98	37.41	53.29	74.00	-20.71	HORIZONTAL	Peak

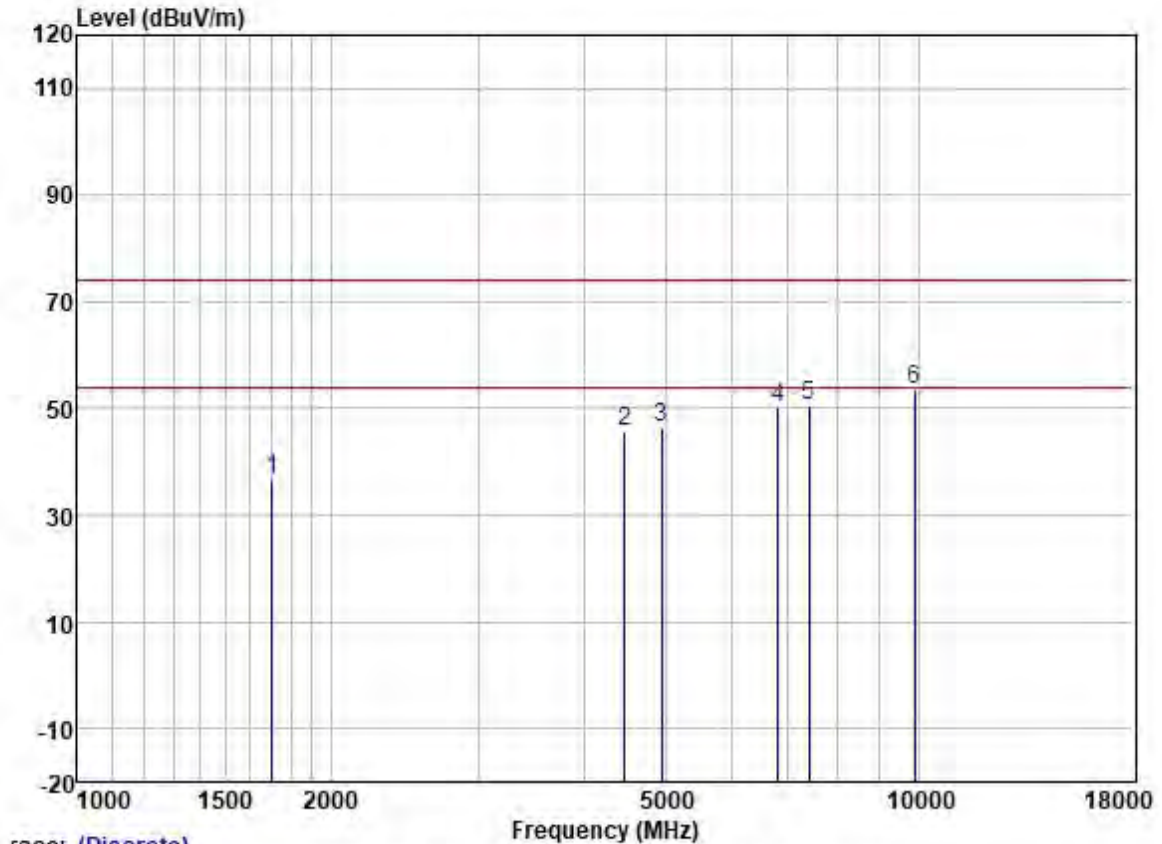
Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

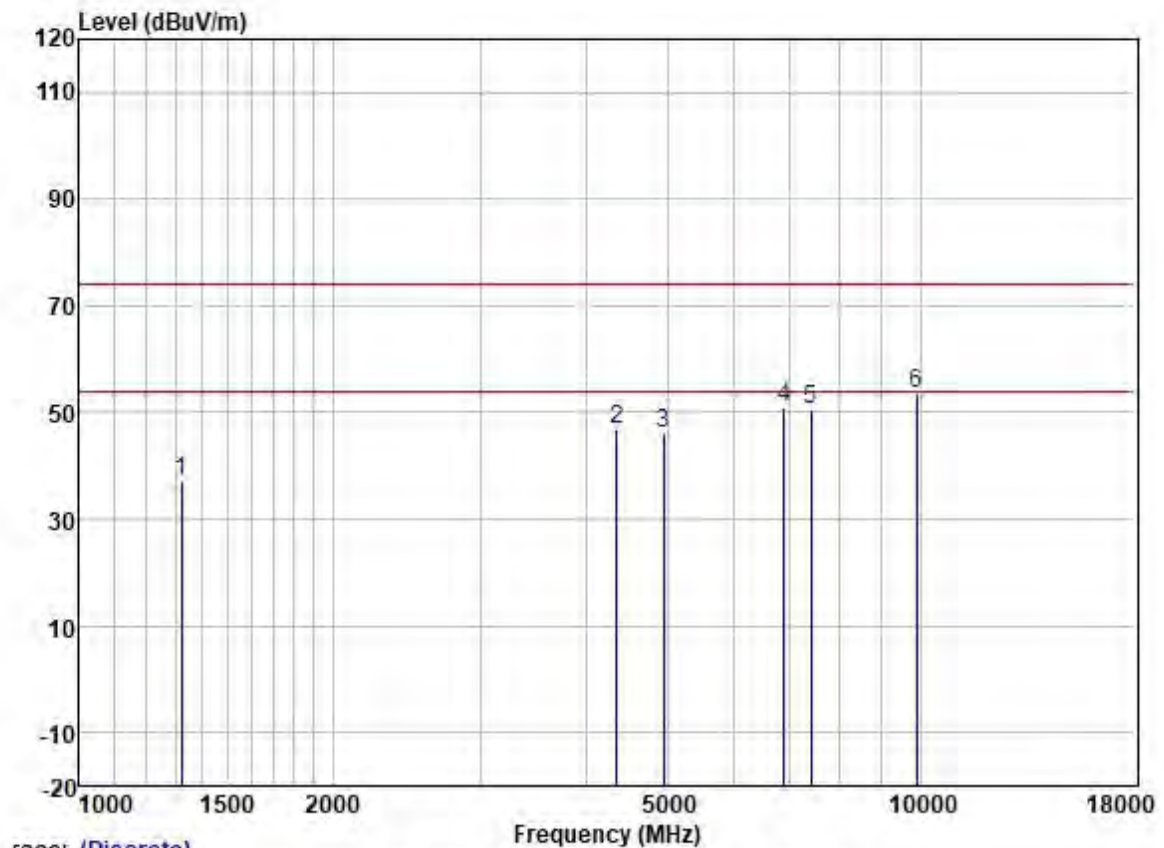
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1644.019	46.94	25.63	2.80	37.93	37.44	74.00	-36.56	VERTICAL	Peak
2	4405.090	47.63	30.68	4.70	36.81	46.20	74.00	-27.80	VERTICAL	Peak
3	4934.000	45.34	31.62	5.60	36.84	45.72	74.00	-28.28	VERTICAL	Peak
4	6855.063	46.83	34.78	5.82	37.15	50.28	74.00	-23.72	VERTICAL	Peak
5	7401.000	46.38	36.22	6.20	37.46	51.34	74.00	-22.66	VERTICAL	Peak
6	9868.000	45.07	38.60	6.98	37.41	53.24	74.00	-20.76	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



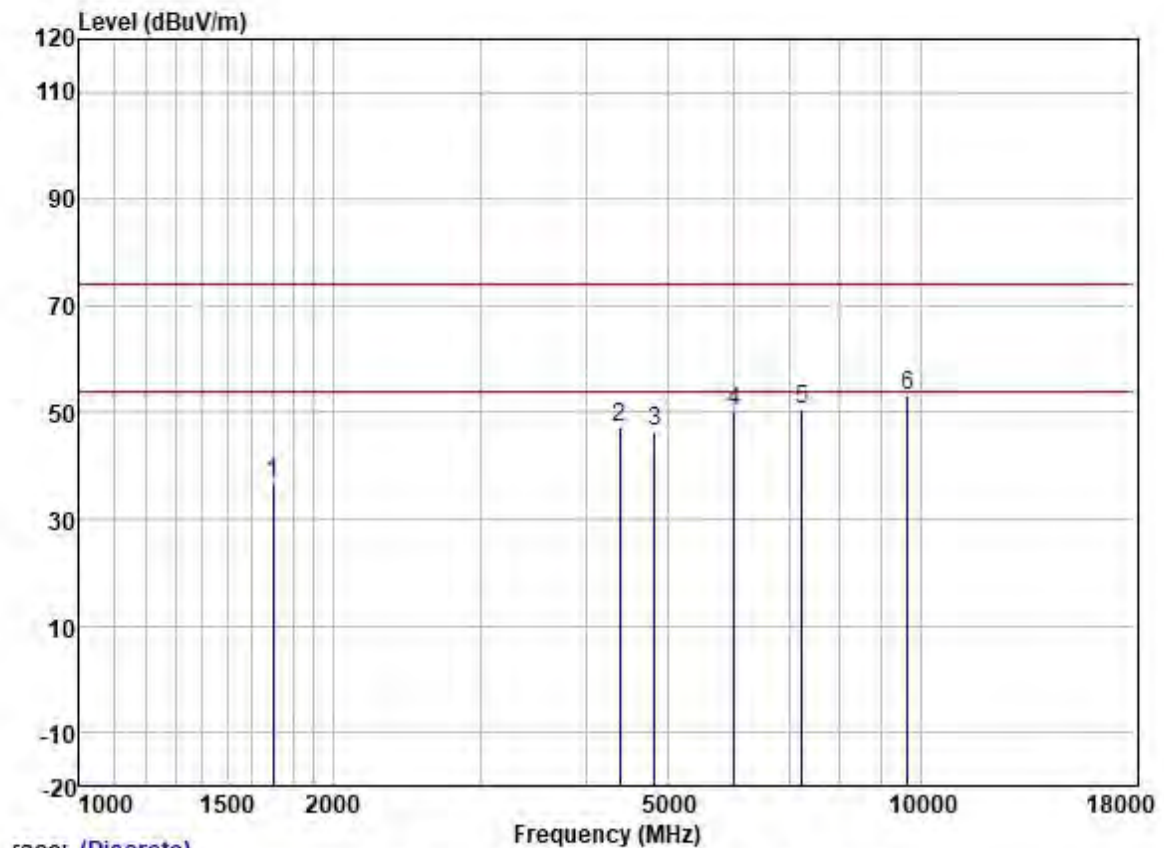
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	45.94	25.72	2.80	37.89	36.57	74.00	-37.43	HORIZONTAL	Peak
2	4469.214	46.91	30.77	4.93	36.81	45.80	74.00	-28.20	HORIZONTAL	Peak
3	4944.000	46.21	31.64	5.62	36.84	46.63	74.00	-27.37	HORIZONTAL	Peak
4	6815.551	46.84	34.70	5.82	37.13	50.23	74.00	-23.77	HORIZONTAL	Peak
5	7416.000	45.75	36.22	6.20	37.47	50.70	74.00	-23.30	HORIZONTAL	Peak
6	9888.000	45.34	38.63	6.97	37.41	53.53	74.00	-20.47	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



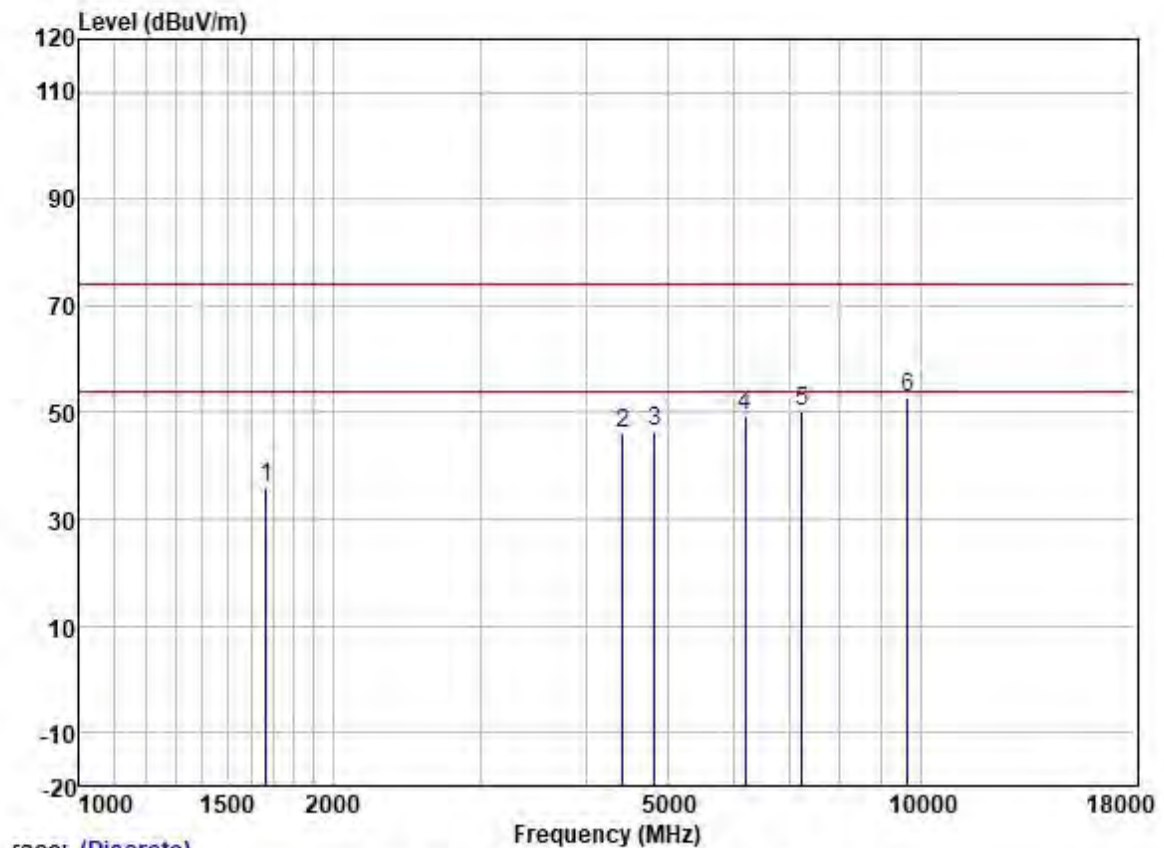
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1323.614	47.70	25.26	2.60	38.29	37.27	74.00	-36.73	VERTICAL	Peak
2	4354.454	48.48	30.59	4.68	36.81	46.94	74.00	-27.06	VERTICAL	Peak
3	4944.000	45.63	31.64	5.62	36.84	46.05	74.00	-27.95	VERTICAL	Peak
4	6874.906	47.44	34.82	5.82	37.16	50.92	74.00	-23.08	VERTICAL	Peak
5	7416.000	45.59	36.22	6.20	37.47	50.54	74.00	-23.46	VERTICAL	Peak
6	9888.000	45.17	38.63	6.97	37.41	53.36	74.00	-20.64	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



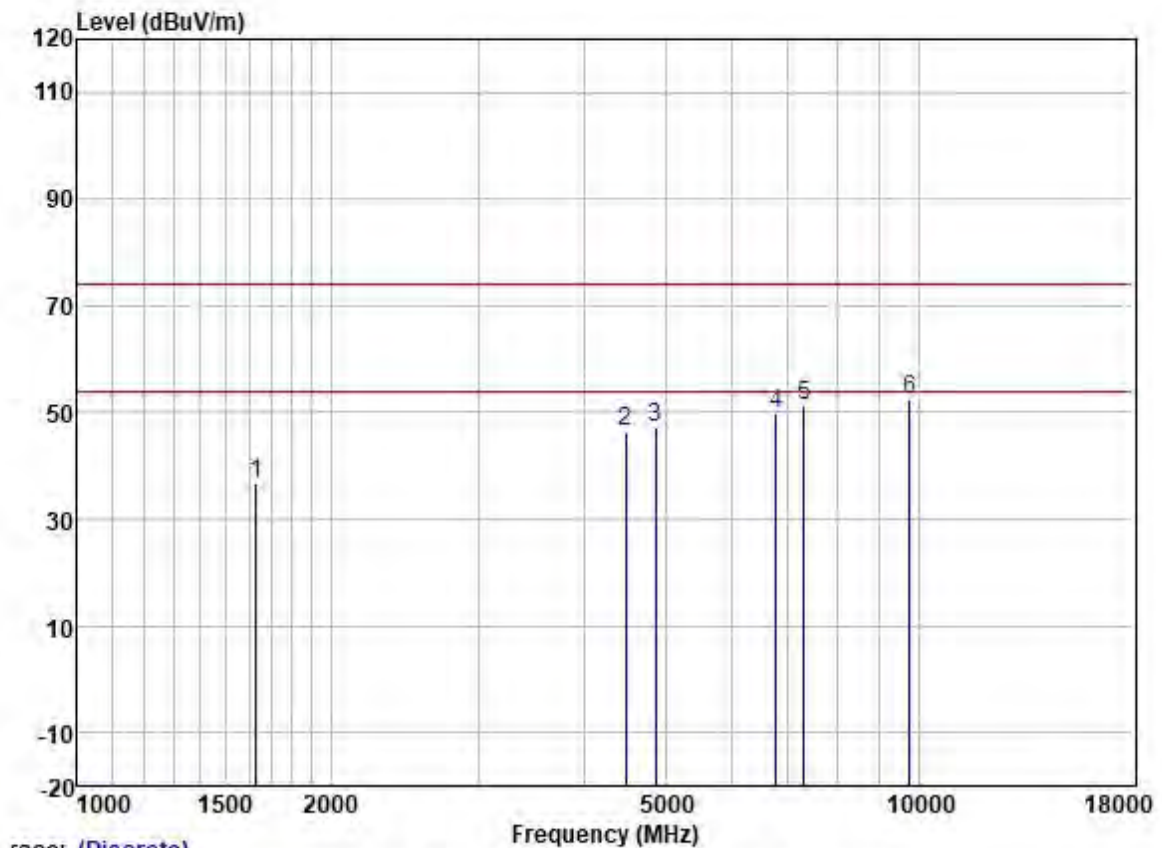
	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1697.129	46.16	25.71	2.80	37.89	36.78	74.00	-37.22 HORIZONTAL Peak
2	4392.376	48.47	30.66	4.70	36.81	47.02	74.00	-26.98 HORIZONTAL Peak
3	4824.000	46.54	31.45	5.42	36.83	46.58	74.00	-27.42 HORIZONTAL Peak
4	6001.626	48.54	32.40	6.20	36.90	50.24	74.00	-23.76 HORIZONTAL Peak
5	7236.000	46.11	35.70	6.03	37.39	50.45	74.00	-23.55 HORIZONTAL Peak
6	9648.000	44.96	38.40	7.06	37.42	53.00	74.00	-21.00 HORIZONTAL Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



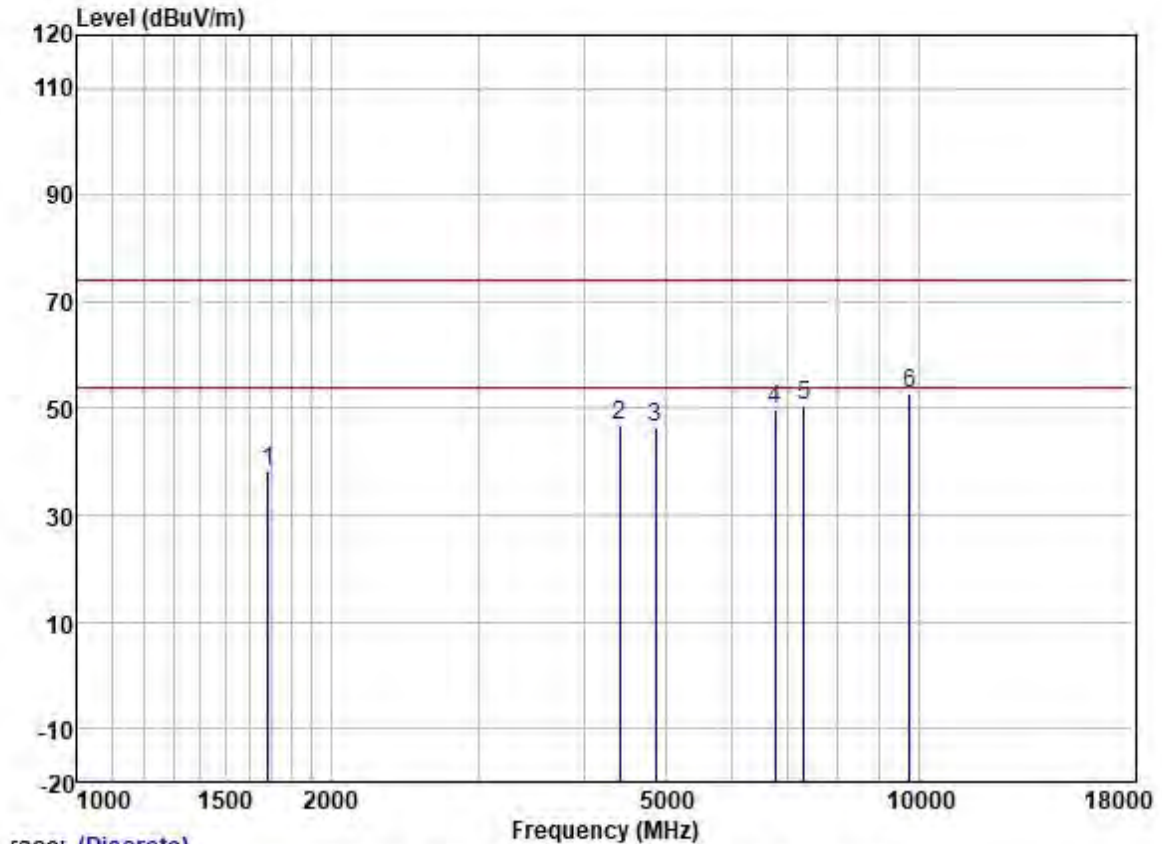
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1667.951	45.44	25.66	2.80	37.91	35.99	74.00	-38.01	VERTICAL	Peak
2	4430.628	47.53	30.72	4.78	36.81	46.22	74.00	-27.78	VERTICAL	Peak
3	4824.000	46.55	31.45	5.42	36.83	46.59	74.00	-27.41	VERTICAL	Peak
4	6195.508	47.49	32.96	6.07	36.94	49.58	74.00	-24.42	VERTICAL	Peak
5	7236.000	46.02	35.70	6.03	37.39	50.36	74.00	-23.64	VERTICAL	Peak
6	9648.000	44.67	38.40	7.06	37.42	52.71	74.00	-21.29	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; 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	1629.825	46.31	25.61	2.80	37.95	36.77	74.00	-37.23	HORIZONTAL	Peak
2	4482.150	47.67	30.78	4.99	36.81	46.63	74.00	-27.37	HORIZONTAL	Peak
3	4874.000	46.91	31.54	5.50	36.84	47.11	74.00	-26.89	HORIZONTAL	Peak
4	6776.265	46.65	34.61	5.82	37.11	49.97	74.00	-24.03	HORIZONTAL	Peak
5	7311.000	46.52	35.93	6.11	37.42	51.14	74.00	-22.86	HORIZONTAL	Peak
6	9748.000	44.47	38.50	7.02	37.41	52.58	74.00	-21.42	HORIZONTAL	Peak

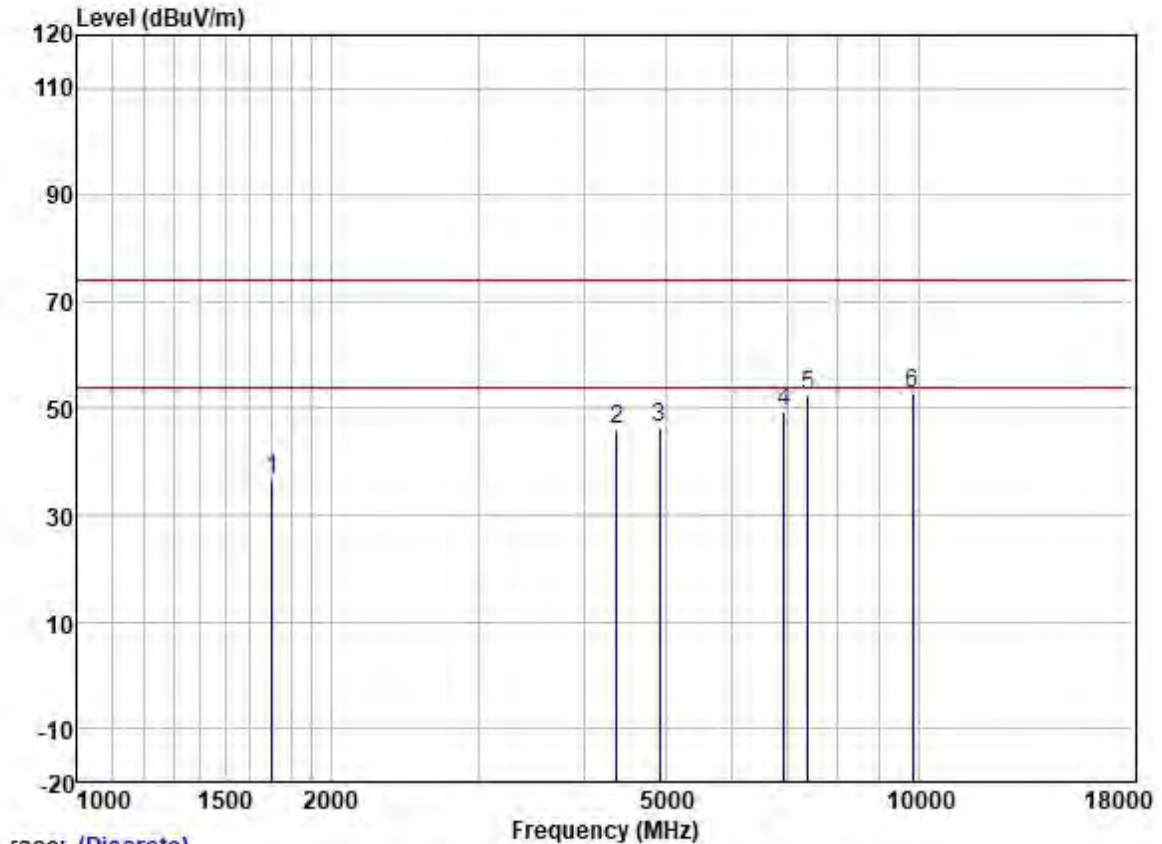
Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

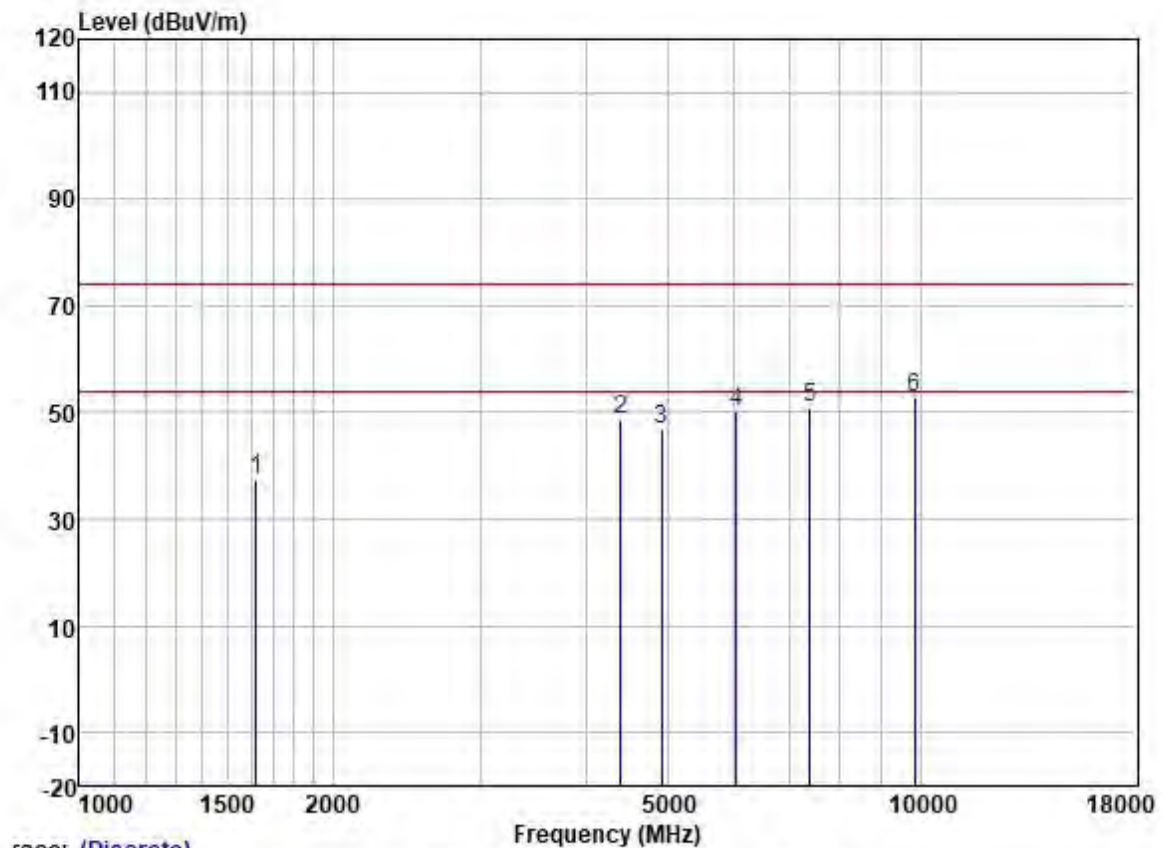
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	47.57	25.69	2.80	37.91	38.15	74.00	-35.85	VERTICAL	Peak
2	4417.841	48.18	30.70	4.74	36.81	46.81	74.00	-27.19	VERTICAL	Peak
3	4874.000	46.37	31.54	5.50	36.84	46.57	74.00	-27.43	VERTICAL	Peak
4	6756.708	46.41	34.56	5.82	37.10	49.69	74.00	-24.31	VERTICAL	Peak
5	7311.000	45.95	35.93	6.11	37.42	50.57	74.00	-23.43	VERTICAL	Peak
6	9748.000	44.53	38.50	7.02	37.41	52.64	74.00	-21.36	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



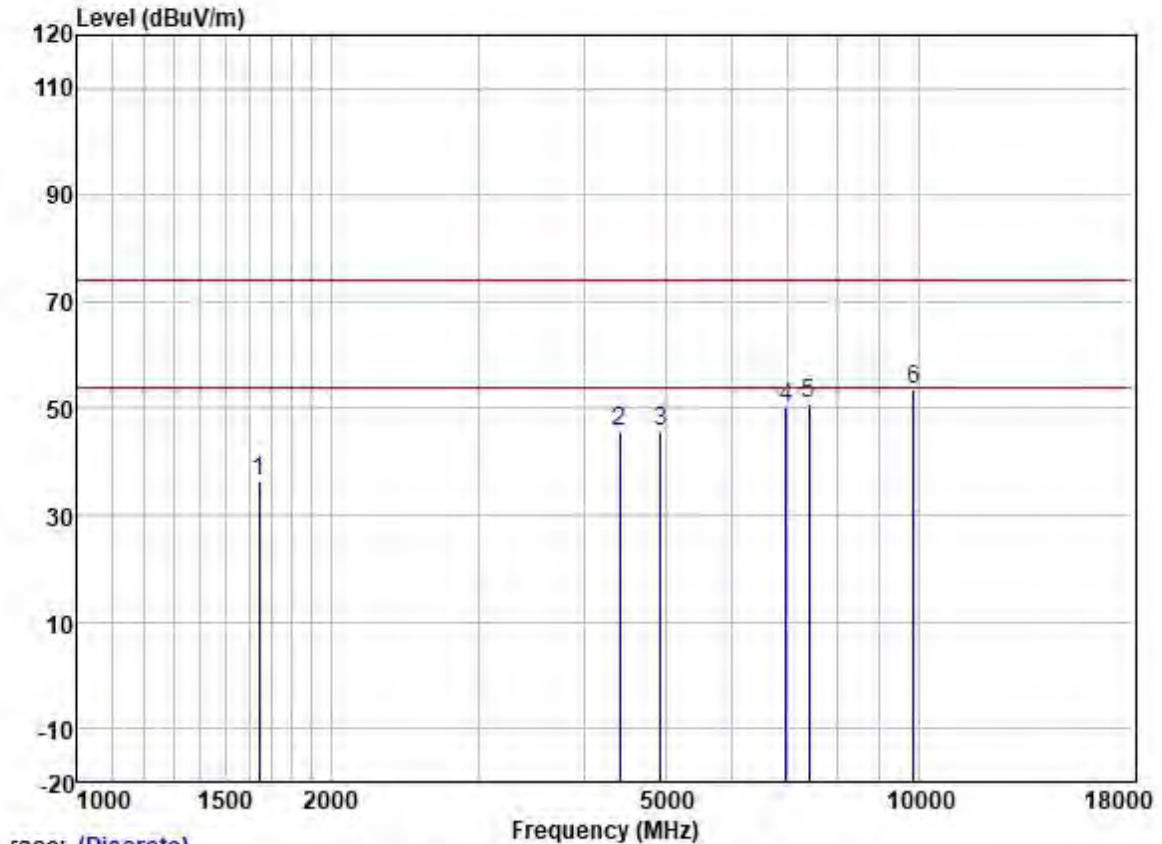
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	46.16	25.72	2.80	37.89	36.79	74.00	-37.21	HORIZONTAL	Peak
2	4379.699	47.60	30.64	4.69	36.81	46.12	74.00	-27.88	HORIZONTAL	Peak
3	4924.000	46.11	31.62	5.60	36.84	46.49	74.00	-27.51	HORIZONTAL	Peak
4	6914.763	46.02	34.89	5.81	37.19	49.53	74.00	-24.47	HORIZONTAL	Peak
5	7386.000	47.47	36.17	6.19	37.45	52.38	74.00	-21.62	HORIZONTAL	Peak
6	9848.000	44.75	38.58	6.99	37.41	52.91	74.00	-21.09	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



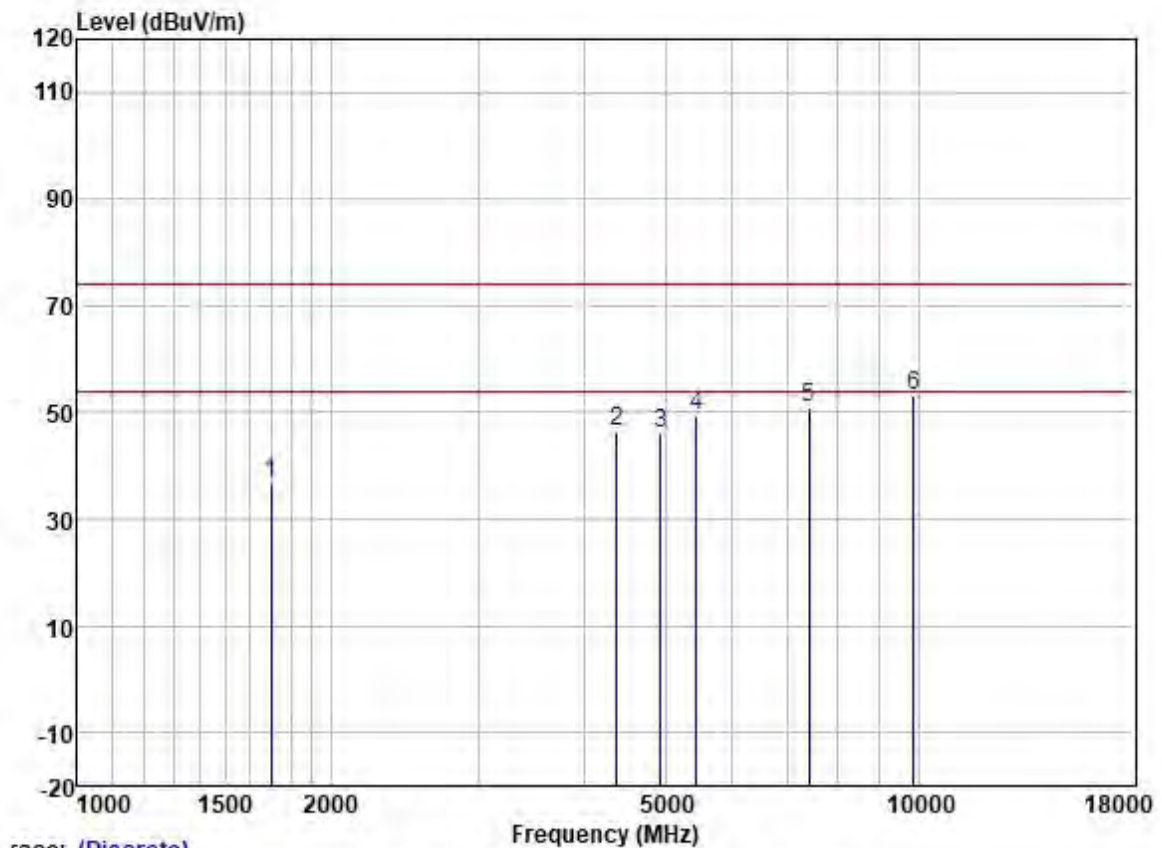
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1620.431	47.12	25.60	2.80	37.95	37.57	74.00	-36.43	VERTICAL	Peak
2	4405.090	50.13	30.68	4.70	36.81	48.70	74.00	-25.30	VERTICAL	Peak
3	4924.000	46.43	31.62	5.60	36.84	46.81	74.00	-27.19	VERTICAL	Peak
4	6036.421	48.53	32.48	6.18	36.90	50.29	74.00	-23.71	VERTICAL	Peak
5	7386.000	46.18	36.17	6.19	37.45	51.09	74.00	-22.91	VERTICAL	Peak
6	9848.000	44.56	38.58	6.99	37.41	52.72	74.00	-21.28	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; 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	1644.019	45.69	25.63	2.80	37.93	36.19	74.00	-37.81	HORIZONTAL	Peak
2	4417.841	47.19	30.70	4.74	36.81	45.82	74.00	-28.18	HORIZONTAL	Peak
3	4934.000	45.37	31.62	5.60	36.84	45.75	74.00	-28.25	HORIZONTAL	Peak
4	6954.852	46.54	34.95	5.81	37.21	50.09	74.00	-23.91	HORIZONTAL	Peak
5	7401.000	46.01	36.22	6.20	37.46	50.97	74.00	-23.03	HORIZONTAL	Peak
6	9868.000	45.31	38.60	6.98	37.41	53.48	74.00	-20.52	HORIZONTAL	Peak

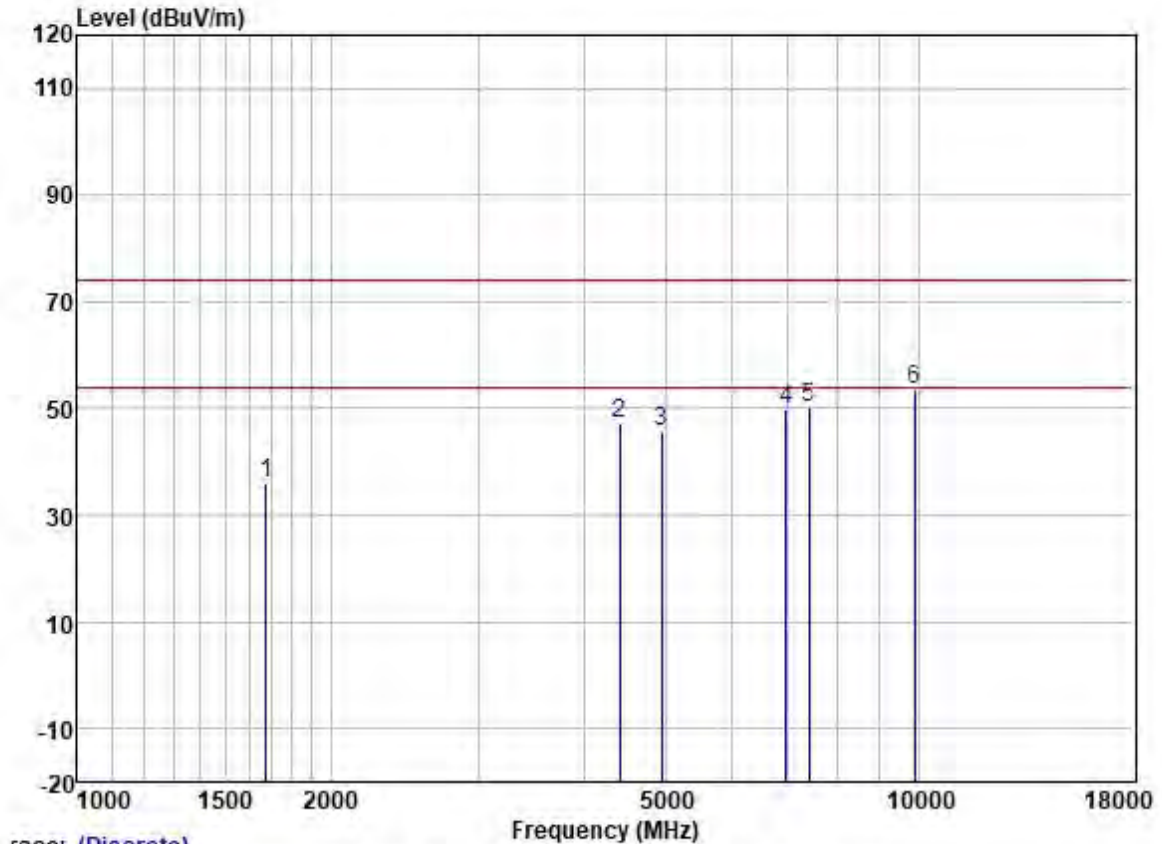
Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

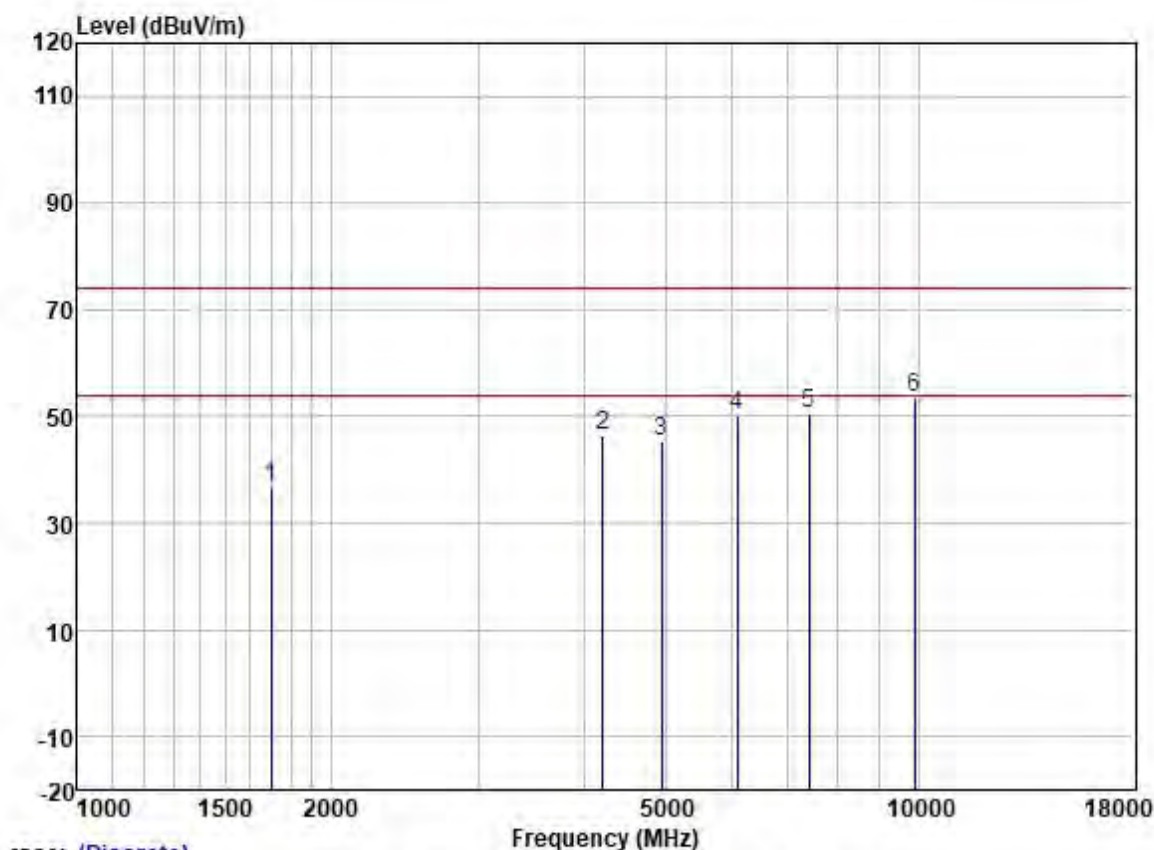
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.21	25.71	2.80	37.89	36.83	74.00	-37.17	VERTICAL Peak
2	4379.699	47.88	30.64	4.69	36.81	46.40	74.00	-27.60	VERTICAL Peak
3	4934.000	45.54	31.62	5.60	36.84	45.92	74.00	-28.08	VERTICAL Peak
4	5439.885	48.31	31.79	6.20	36.88	49.42	74.00	-24.58	VERTICAL Peak
5	7401.000	45.85	36.22	6.20	37.46	50.81	74.00	-23.19	VERTICAL Peak
6	9868.000	45.09	38.60	6.98	37.41	53.26	74.00	-20.74	VERTICAL Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; 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	1677.621	45.51	25.68	2.80	37.91	36.08	74.00	-37.92	HORIZONTAL	Peak
2	4417.841	48.41	30.70	4.74	36.81	47.04	74.00	-26.96	HORIZONTAL	Peak
3	4944.000	45.47	31.64	5.62	36.84	45.89	74.00	-28.11	HORIZONTAL	Peak
4	6954.852	46.31	34.95	5.81	37.21	49.86	74.00	-24.14	HORIZONTAL	Peak
5	7416.000	45.28	36.22	6.20	37.47	50.23	74.00	-23.77	HORIZONTAL	Peak
6	9888.000	45.48	38.63	6.97	37.41	53.67	74.00	-20.33	HORIZONTAL	Peak

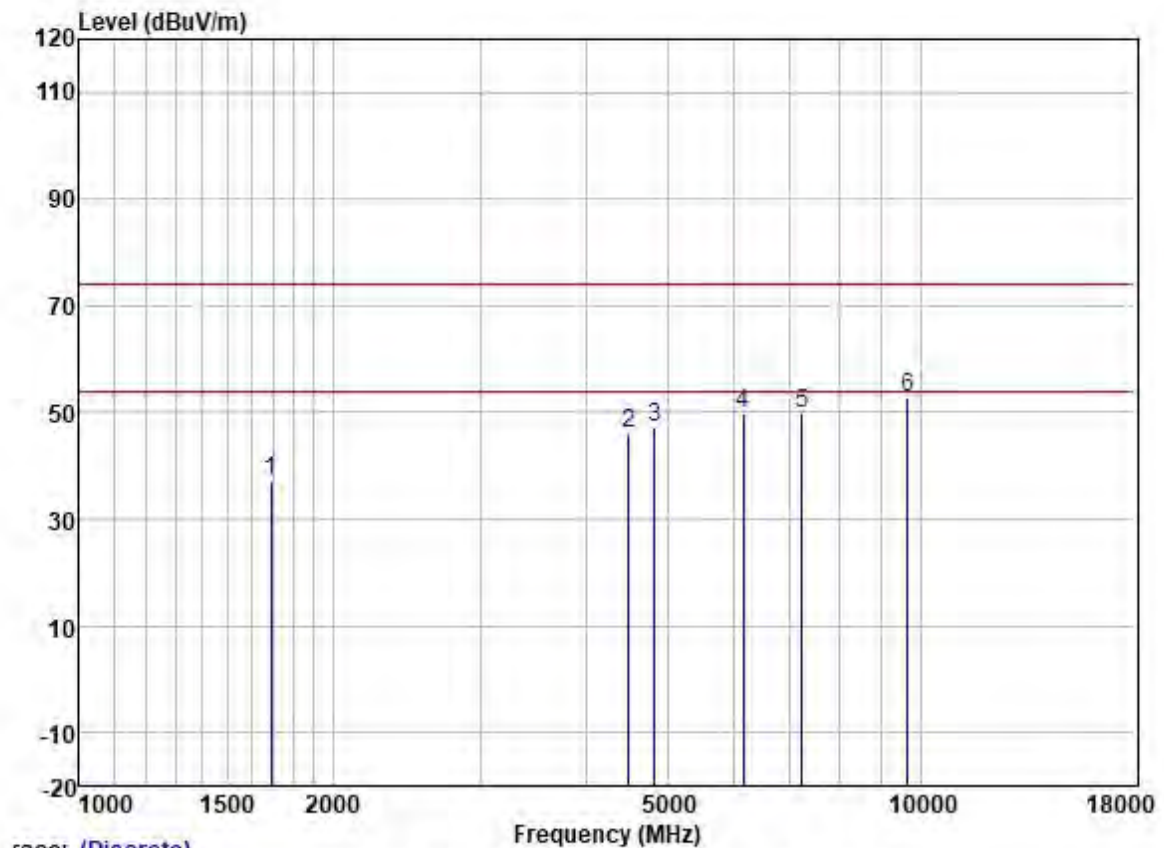
Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

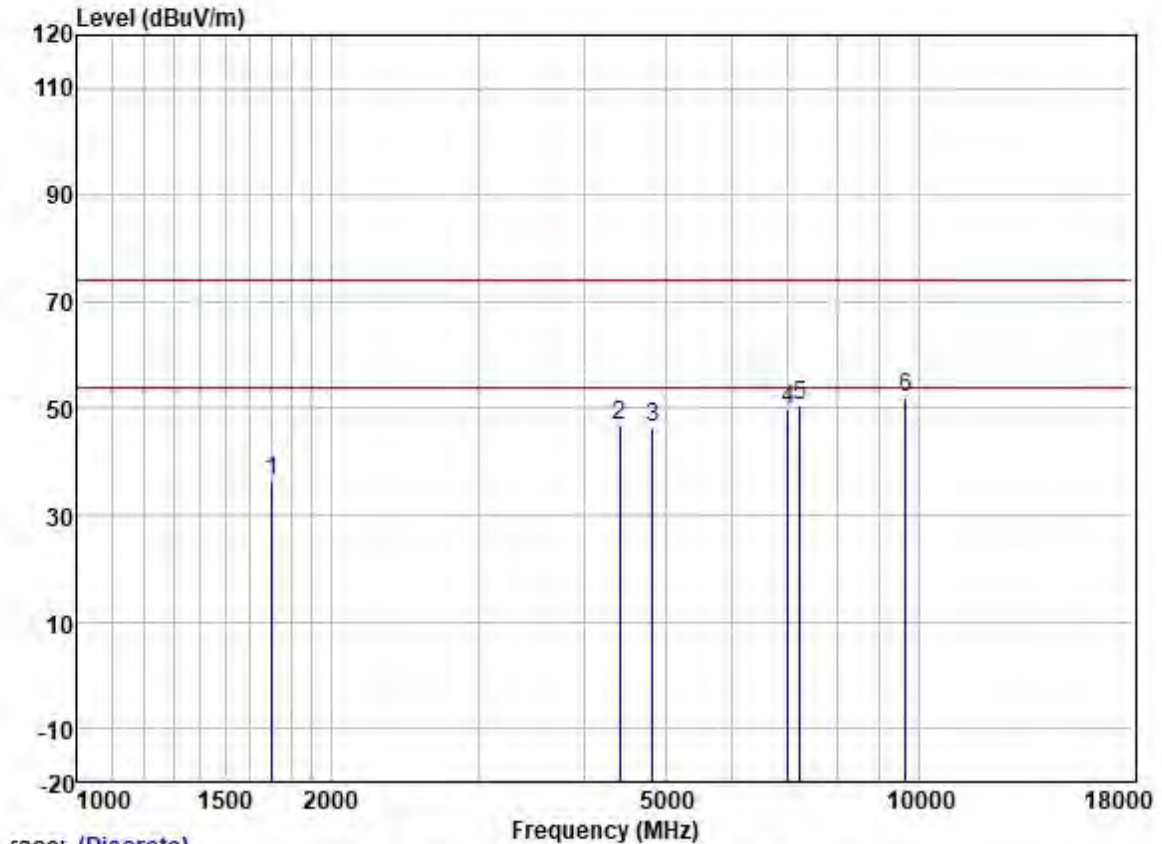
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.02	25.71	2.80	37.89	36.64	74.00	-37.36	VERTICAL	Peak
2	4218.186	48.30	30.22	4.60	36.81	46.31	74.00	-27.69	VERTICAL	Peak
3	4944.000	44.85	31.64	5.62	36.84	45.27	74.00	-28.73	VERTICAL	Peak
4	6088.991	48.17	32.61	6.15	36.92	50.01	74.00	-23.99	VERTICAL	Peak
5	7416.000	45.79	36.22	6.20	37.47	50.74	74.00	-23.26	VERTICAL	Peak
6	9888.000	45.25	38.63	6.97	37.41	53.44	74.00	-20.56	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



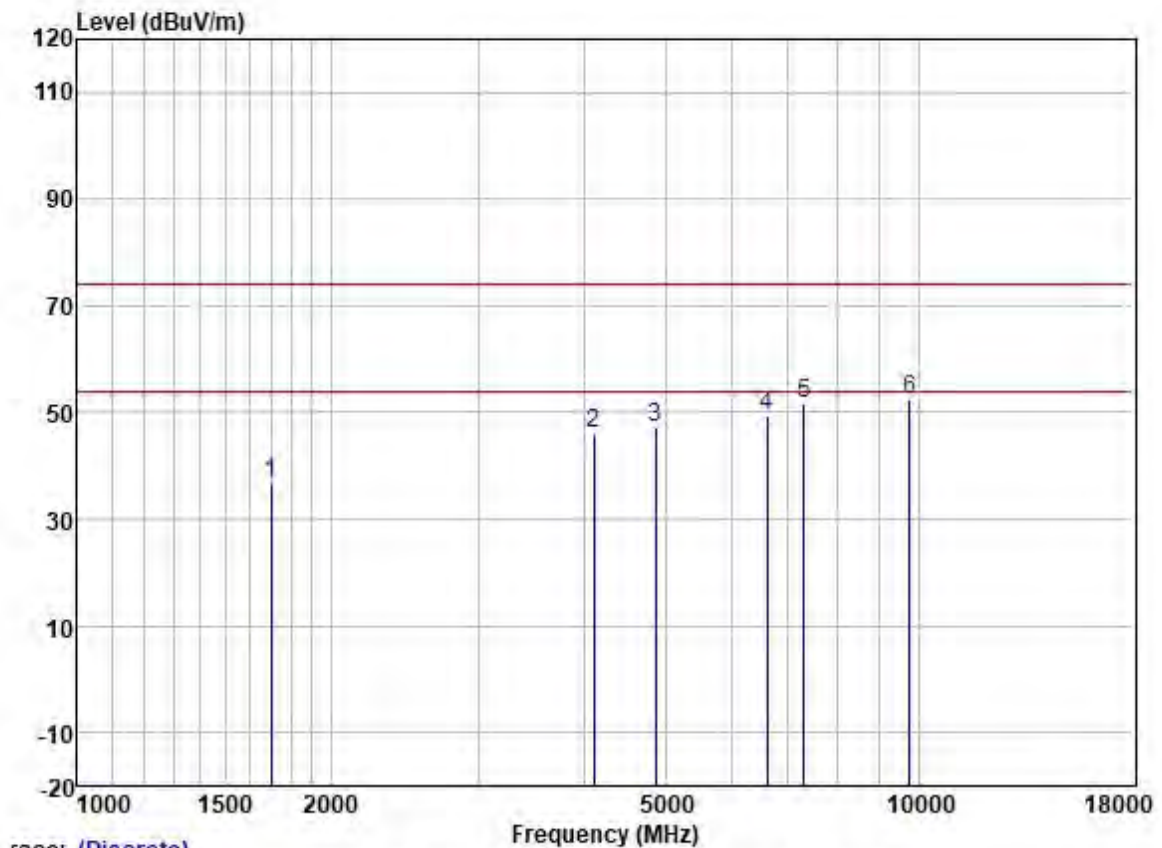
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	46.38	25.70	2.80	37.89	36.99	74.00	-37.01	HORIZONTAL	Peak
2	4495.125	46.91	30.80	5.05	36.82	45.94	74.00	-28.06	HORIZONTAL	Peak
3	4824.000	47.04	31.45	5.42	36.83	47.08	74.00	-26.92	HORIZONTAL	Peak
4	6159.797	47.68	32.83	6.10	36.93	49.68	74.00	-24.32	HORIZONTAL	Peak
5	7236.000	45.46	35.70	6.03	37.39	49.80	74.00	-24.20	HORIZONTAL	Peak
6	9648.000	44.69	38.40	7.06	37.42	52.73	74.00	-21.27	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



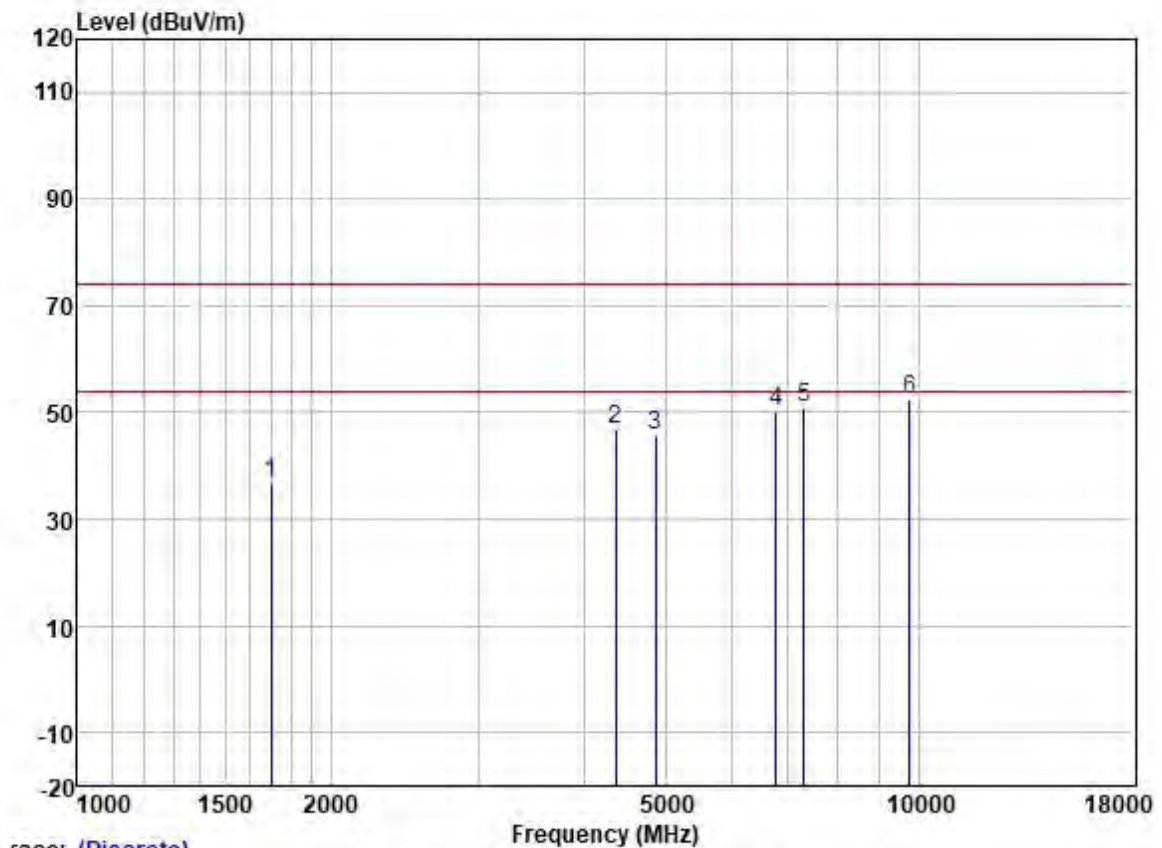
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	45.81	25.72	2.80	37.89	36.44	74.00	-37.56	VERTICAL Peak
2	4417.841	48.13	30.70	4.74	36.81	46.76	74.00	-27.24	VERTICAL Peak
3	4824.000	46.59	31.45	5.42	36.83	46.63	74.00	-27.37	VERTICAL Peak
4	6995.172	46.10	35.00	5.81	37.25	49.66	74.00	-24.34	VERTICAL Peak
5	7236.000	46.22	35.70	6.03	37.39	50.56	74.00	-23.44	VERTICAL Peak
6	9648.000	44.19	38.40	7.06	37.42	52.23	74.00	-21.77	VERTICAL Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



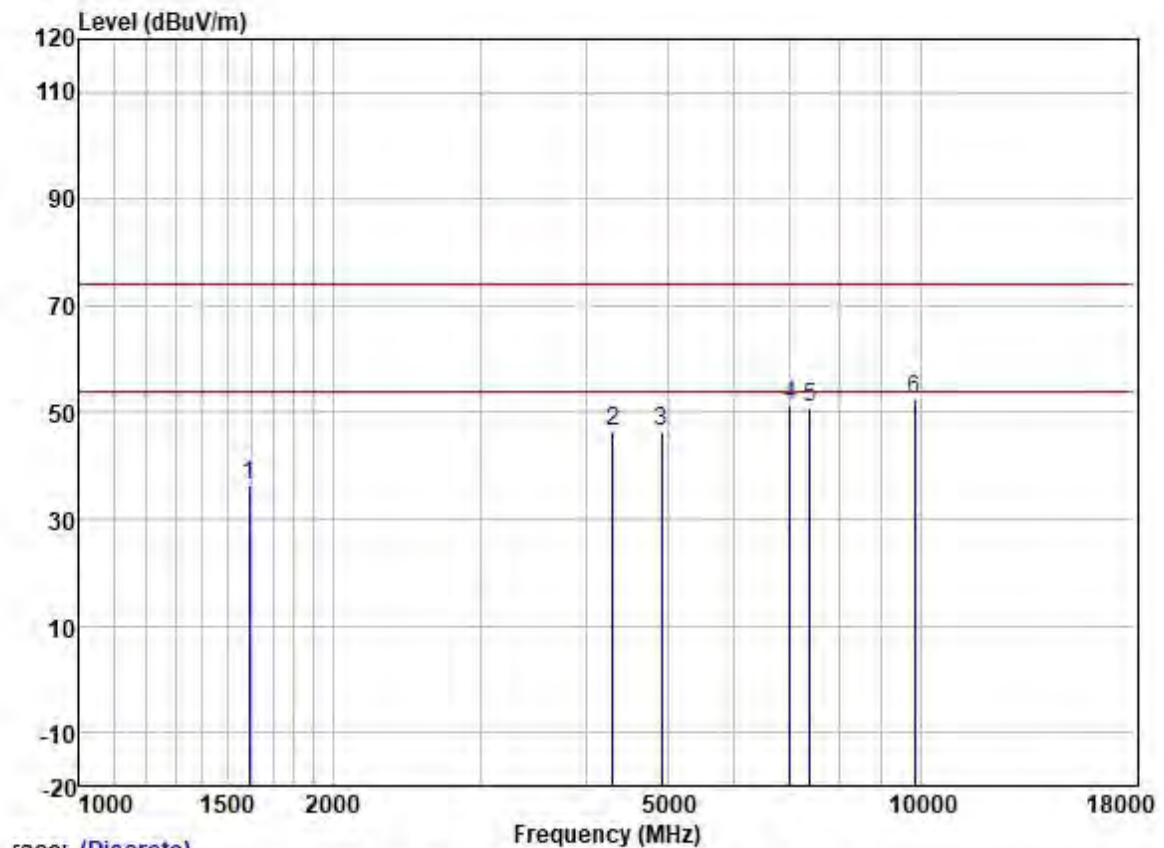
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	45.98	25.71	2.80	37.89	36.60	74.00	-37.40	HORIZONTAL	Peak
2	4109.872	48.22	29.96	4.60	36.80	45.98	74.00	-28.02	HORIZONTAL	Peak
3	4874.000	46.94	31.54	5.50	36.84	47.14	74.00	-26.86	HORIZONTAL	Peak
4	6602.265	46.57	34.16	5.84	37.04	49.53	74.00	-24.47	HORIZONTAL	Peak
5	7311.000	46.88	35.93	6.11	37.42	51.50	74.00	-22.50	HORIZONTAL	Peak
6	9748.000	44.39	38.50	7.02	37.41	52.50	74.00	-21.50	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



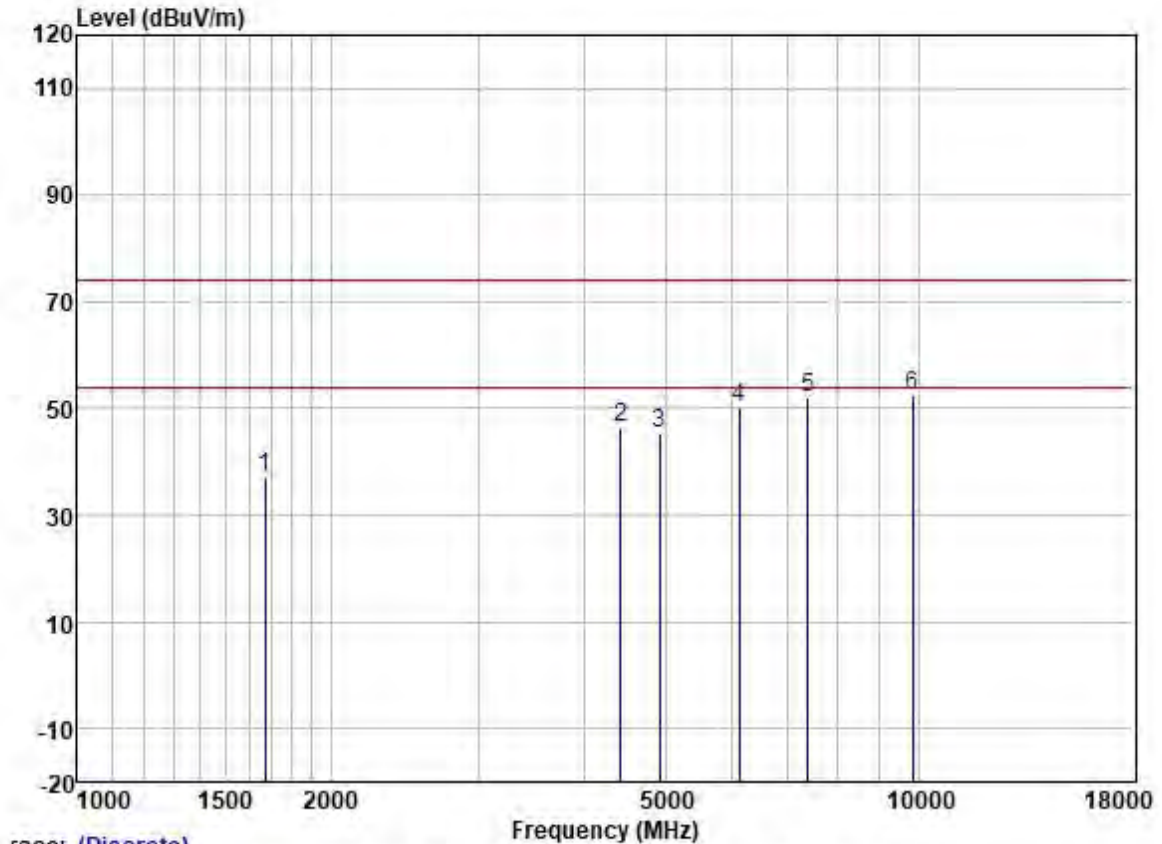
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.21	25.71	2.80	37.89	36.83	74.00	-37.17	VERTICAL	Peak
2	4367.058	48.18	30.62	4.68	36.81	46.67	74.00	-27.33	VERTICAL	Peak
3	4874.000	45.53	31.54	5.50	36.84	45.73	74.00	-28.27	VERTICAL	Peak
4	6776.265	47.01	34.61	5.82	37.11	50.33	74.00	-23.67	VERTICAL	Peak
5	7311.000	46.31	35.93	6.11	37.42	50.93	74.00	-23.07	VERTICAL	Peak
6	9748.000	44.44	38.50	7.02	37.41	52.55	74.00	-21.45	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



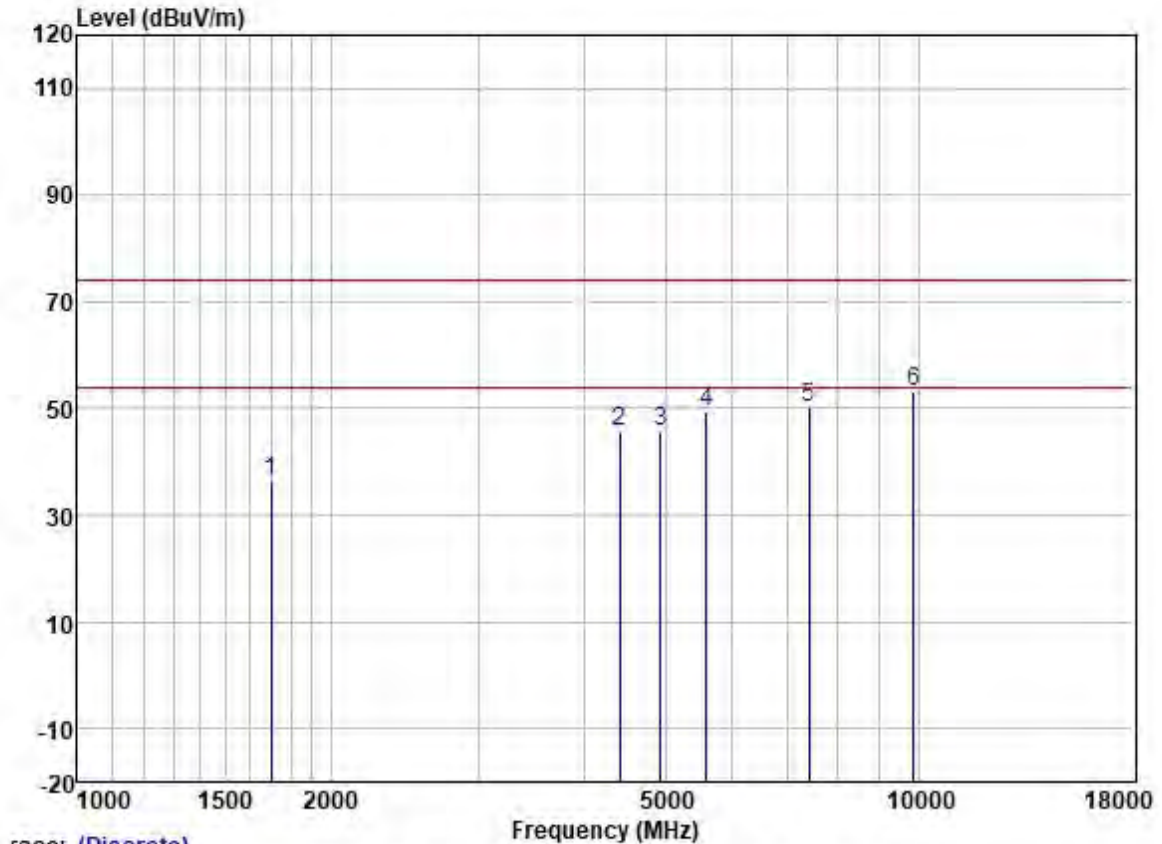
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1592.571	46.14	25.57	2.80	37.98	36.53	74.00	-37.47	HORIZONTAL	Peak
2	4304.400	48.03	30.48	4.65	36.81	46.35	74.00	-27.65	HORIZONTAL	Peak
3	4924.000	46.09	31.62	5.60	36.84	46.47	74.00	-27.53	HORIZONTAL	Peak
4	6995.172	47.68	35.00	5.81	37.25	51.24	74.00	-22.76	HORIZONTAL	Peak
5	7386.000	45.91	36.17	6.19	37.45	50.82	74.00	-23.18	HORIZONTAL	Peak
6	9848.000	44.10	38.58	6.99	37.41	52.26	74.00	-21.74	HORIZONTAL	Peak

Test Mode: 11; 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	1672.779	46.67	25.67	2.80	37.91	37.23	74.00	-36.77	VERTICAL	Peak
2	4430.628	47.58	30.72	4.78	36.81	46.27	74.00	-27.73	VERTICAL	Peak
3	4924.000	45.00	31.62	5.60	36.84	45.38	74.00	-28.62	VERTICAL	Peak
4	6124.292	48.12	32.72	6.13	36.92	50.05	74.00	-23.95	VERTICAL	Peak
5	7386.000	47.11	36.17	6.19	37.45	52.02	74.00	-21.98	VERTICAL	Peak
6	9848.000	44.45	38.58	6.99	37.41	52.61	74.00	-21.39	VERTICAL	Peak

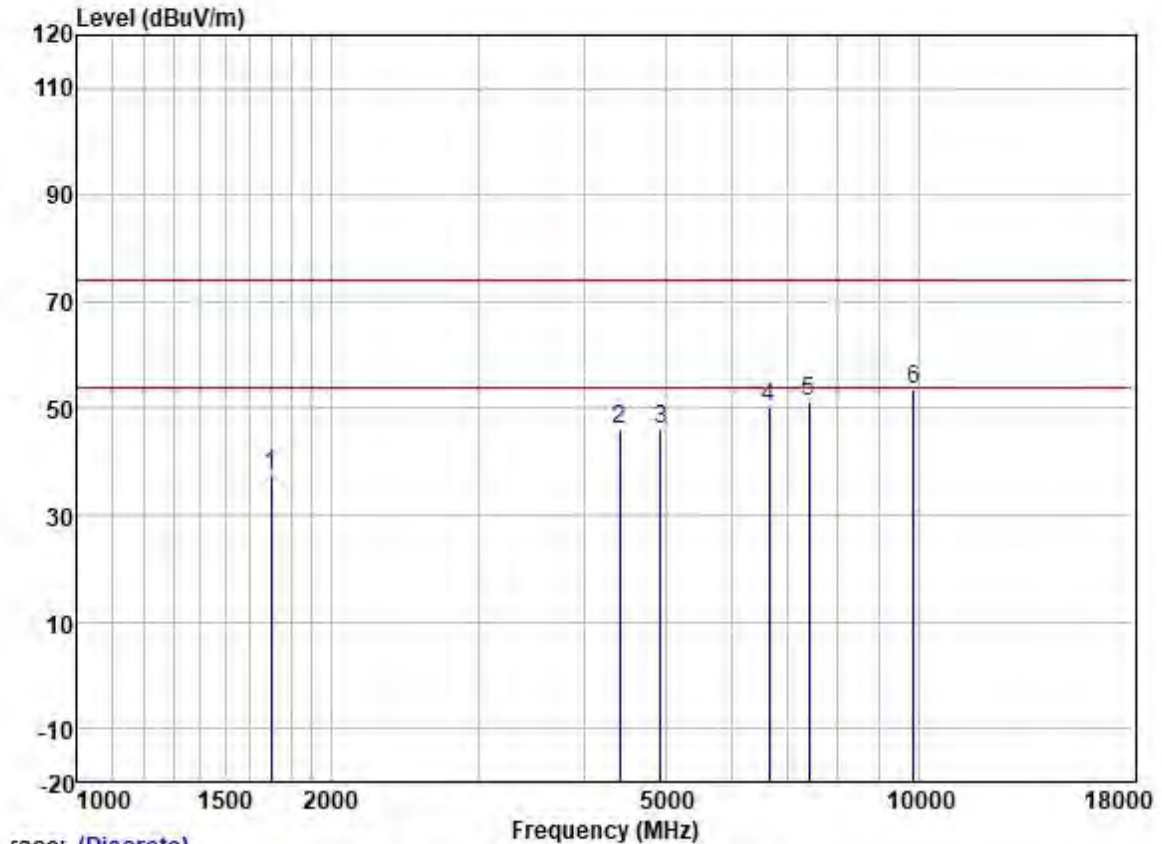
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	1697.129	45.91	25.71	2.80	37.89	36.53	74.00	-37.47	HORIZONTAL	Peak
2	4417.841	47.09	30.70	4.74	36.81	45.72	74.00	-28.28	HORIZONTAL	Peak
3	4934.000	45.42	31.62	5.60	36.84	45.80	74.00	-28.20	HORIZONTAL	Peak
4	5599.412	48.27	31.89	6.30	36.89	49.57	74.00	-24.43	HORIZONTAL	Peak
5	7401.000	45.41	36.22	6.20	37.46	50.37	74.00	-23.63	HORIZONTAL	Peak
6	9868.000	44.82	38.60	6.98	37.41	52.99	74.00	-21.01	HORIZONTAL	Peak

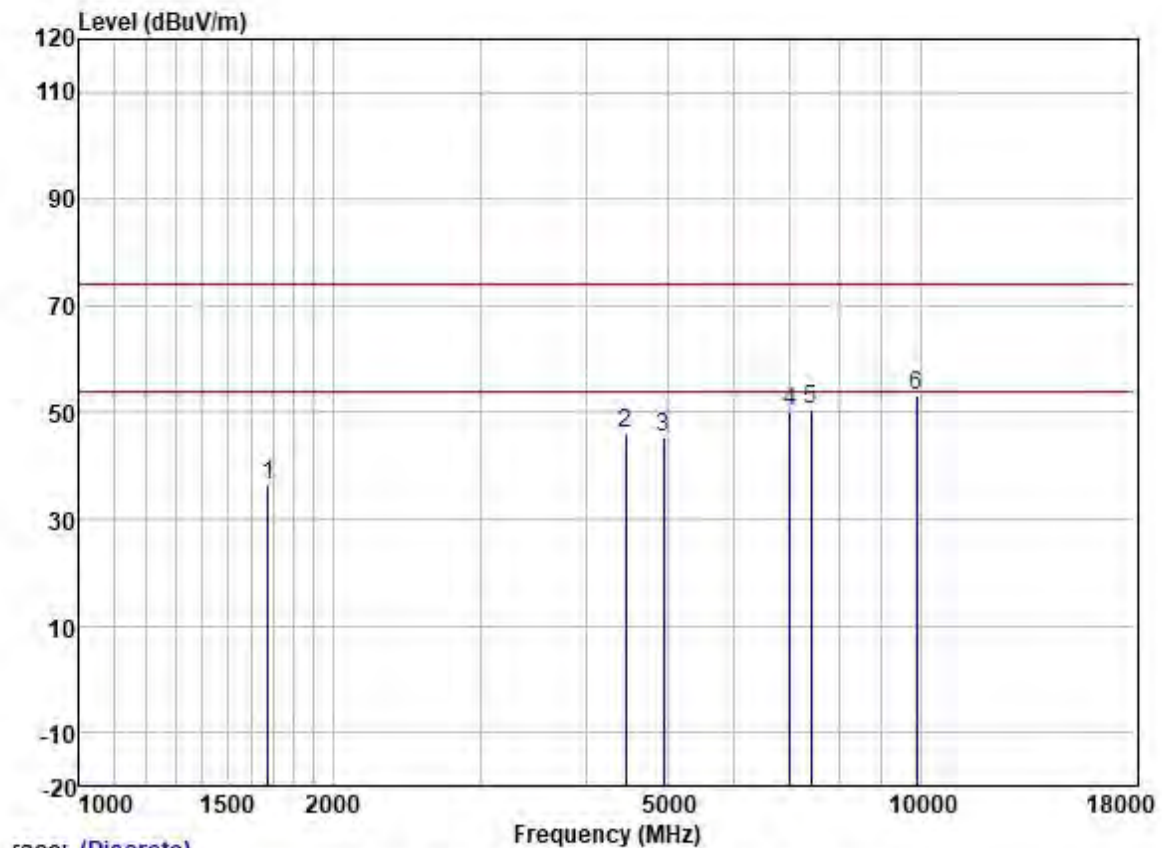
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

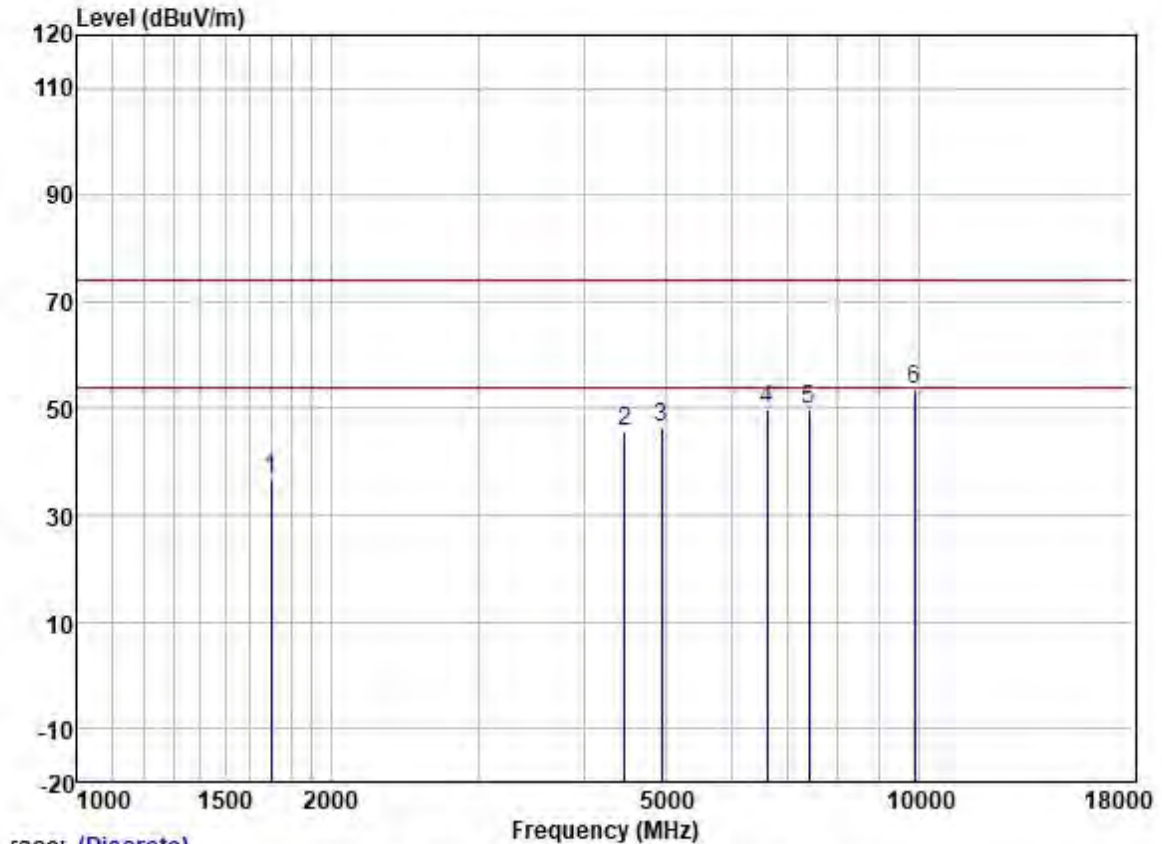
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark.
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.92	25.71	2.80	37.89	37.54	74.00	-36.46	VERTICAL	Peak
2	4417.841	47.52	30.70	4.74	36.81	46.15	74.00	-27.85	VERTICAL	Peak
3	4934.000	45.65	31.62	5.60	36.84	46.03	74.00	-27.97	VERTICAL	Peak
4	6640.542	47.29	34.24	5.83	37.06	50.30	74.00	-23.70	VERTICAL	Peak
5	7401.000	46.21	36.22	6.20	37.46	51.17	74.00	-22.83	VERTICAL	Peak
6	9868.000	45.56	38.60	6.98	37.41	53.73	74.00	-20.27	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



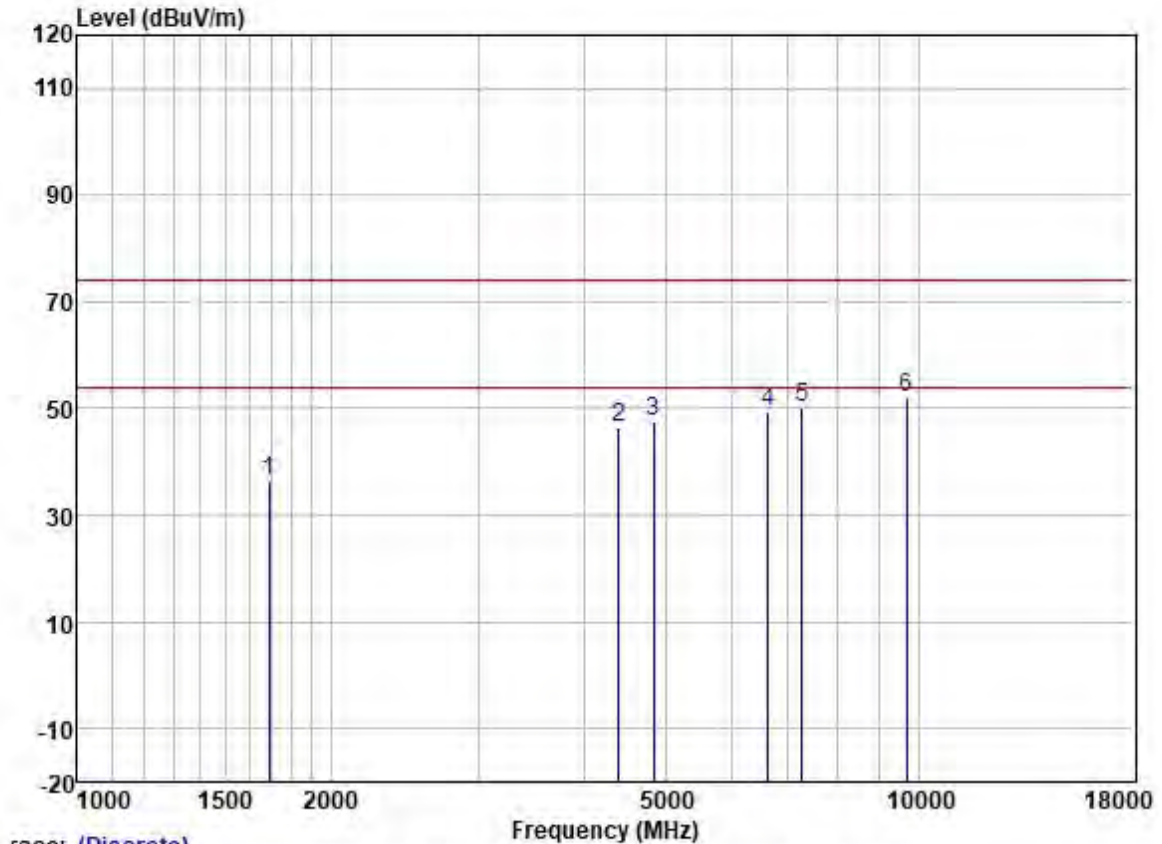
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	45.85	25.68	2.80	37.91	36.42	74.00	-37.58	HORIZONTAL	Peak
2	4456.315	47.39	30.75	4.88	36.81	46.21	74.00	-27.79	HORIZONTAL	Peak
3	4944.000	45.02	31.64	5.62	36.84	45.44	74.00	-28.56	HORIZONTAL	Peak
4	6995.172	46.46	35.00	5.81	37.25	50.02	74.00	-23.98	HORIZONTAL	Peak
5	7416.000	45.44	36.22	6.20	37.47	50.39	74.00	-23.61	HORIZONTAL	Peak
6	9888.000	44.96	38.63	6.97	37.41	53.15	74.00	-20.85	HORIZONTAL	Peak

Test Mode: 11; 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	1697.129	46.29	25.71	2.80	37.89	36.91	74.00	-37.09	VERTICAL	Peak
2	4469.214	46.91	30.77	4.93	36.81	45.80	74.00	-28.20	VERTICAL	Peak
3	4944.000	46.03	31.64	5.62	36.84	46.45	74.00	-27.55	VERTICAL	Peak
4	6602.265	46.90	34.16	5.84	37.04	49.86	74.00	-24.14	VERTICAL	Peak
5	7416.000	44.88	36.22	6.20	37.47	49.83	74.00	-24.17	VERTICAL	Peak
6	9888.000	45.42	38.63	6.97	37.41	53.61	74.00	-20.39	VERTICAL	Peak

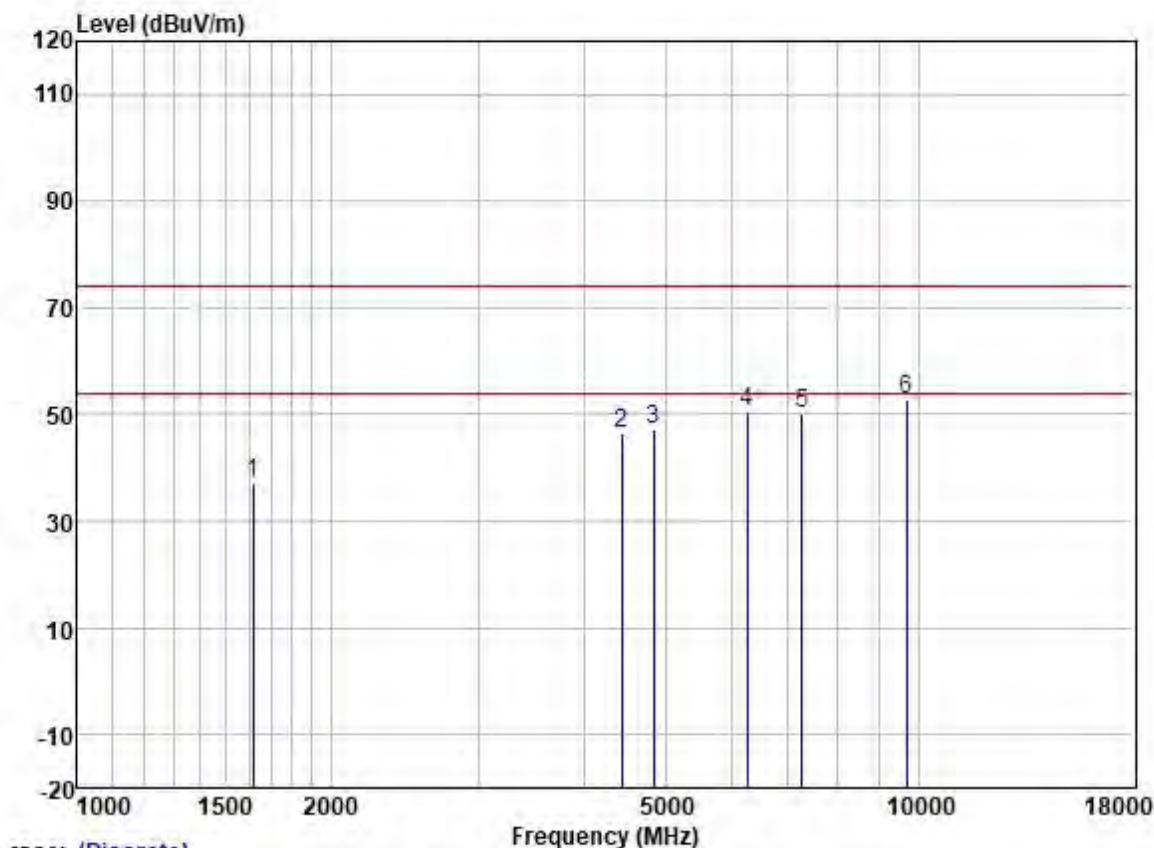
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

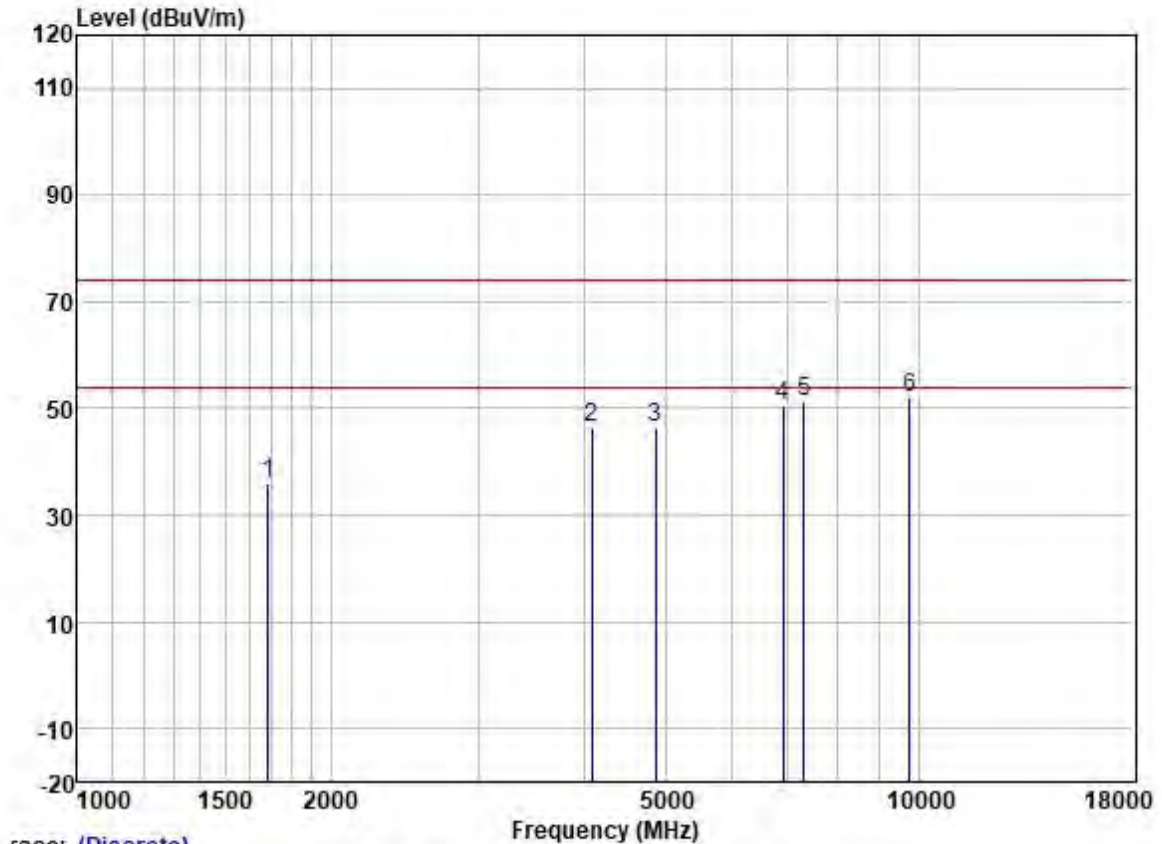
	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1692.231	45.82	25.70	2.80	37.89	36.43	74.00	-37.57
2	4405.090	47.95	30.68	4.70	36.81	46.52	74.00	-27.48
3	4844.000	47.64	31.50	5.45	36.84	47.75	74.00	-26.25
4	6621.375	46.51	34.20	5.83	37.05	49.49	74.00	-24.51
5	7266.000	45.67	35.78	6.06	37.41	50.10	74.00	-23.90
6	9688.000	44.00	38.44	7.04	37.42	52.06	74.00	-21.94

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



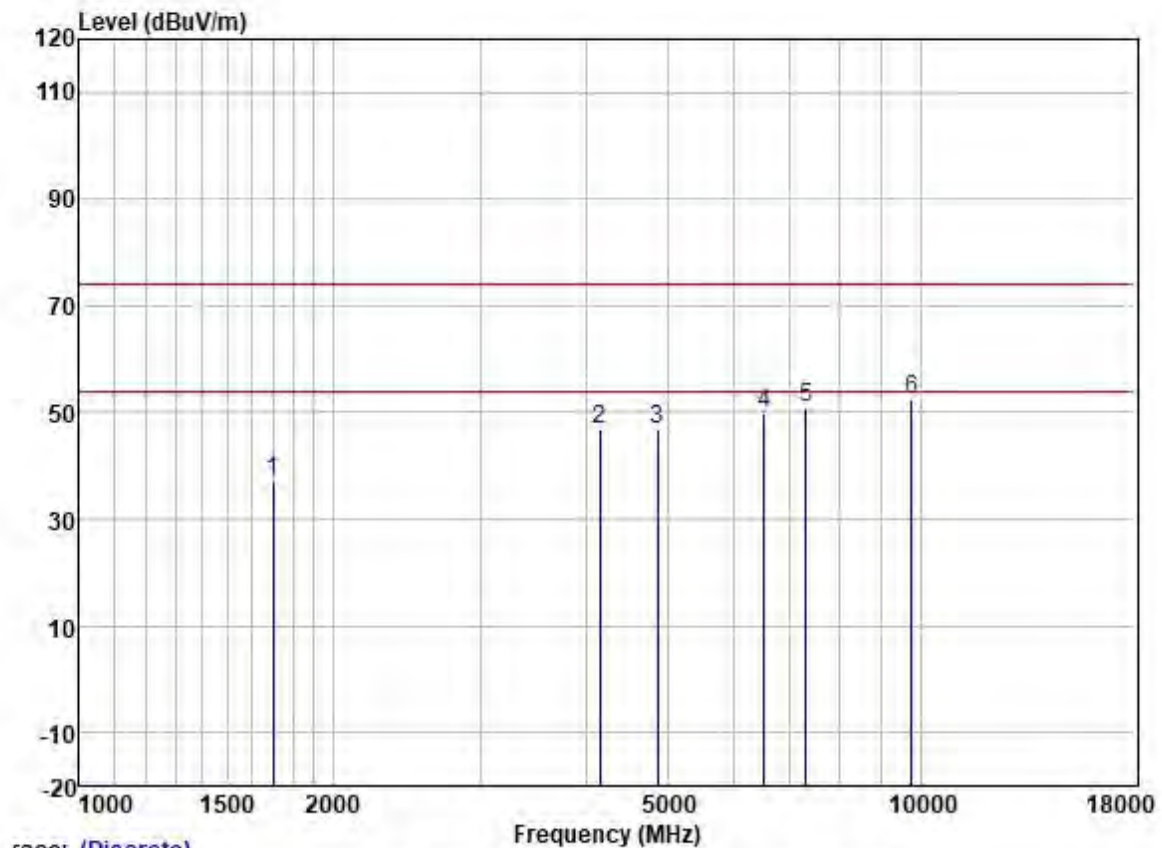
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1615.754	46.76	25.60	2.80	37.95	37.21	74.00	-36.79	VERTICAL	Peak
2	4443.453	47.68	30.73	4.83	36.81	46.43	74.00	-27.57	VERTICAL	Peak
3	4844.000	47.00	31.50	5.45	36.84	47.11	74.00	-26.89	VERTICAL	Peak
4	6249.464	48.20	33.20	6.02	36.95	50.47	74.00	-23.53	VERTICAL	Peak
5	7266.000	45.90	35.78	6.06	37.41	50.33	74.00	-23.67	VERTICAL	Peak
6	9688.000	44.77	38.44	7.04	37.42	52.83	74.00	-21.17	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



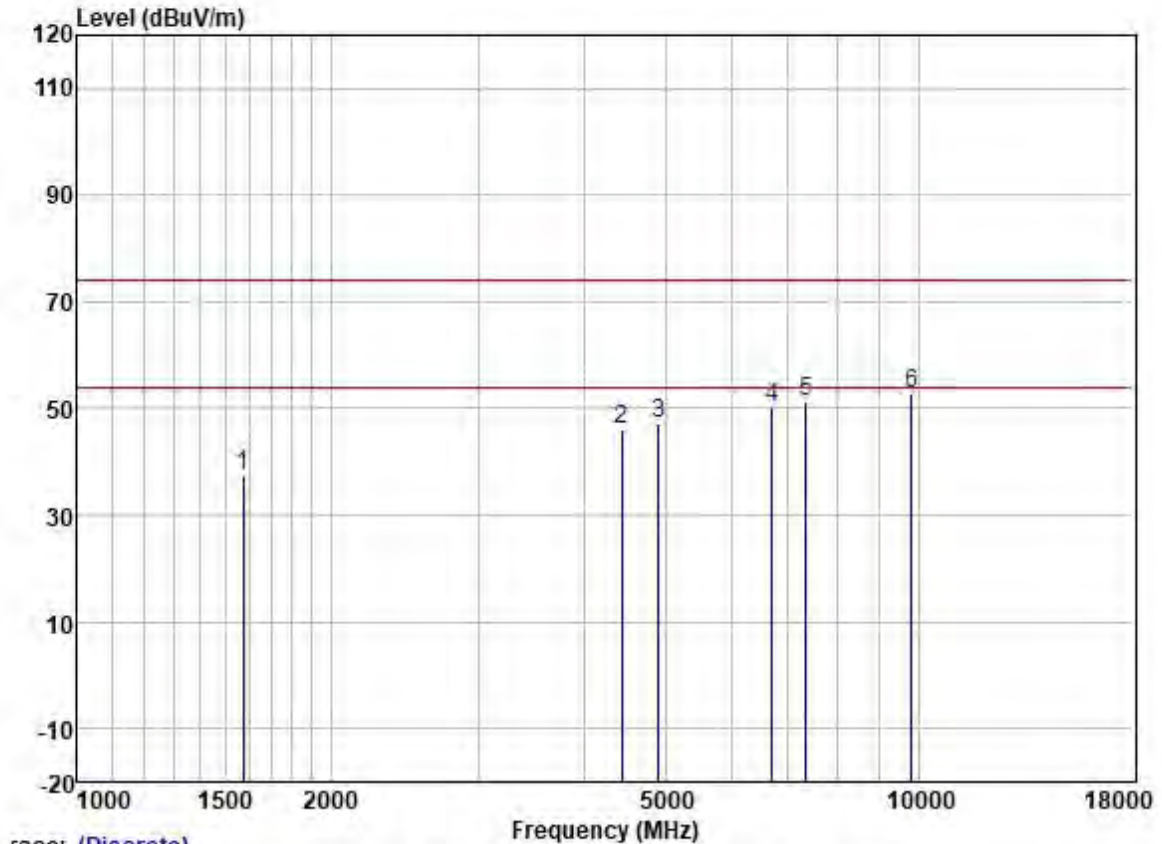
Race: (Discrete)	Frequency (MHz)									
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	45.45	25.69	2.80	37.91	36.03	74.00	-37.97	HORIZONTAL	Peak
2	4086.182	48.81	29.92	4.60	36.80	46.53	74.00	-27.47	HORIZONTAL	Peak
3	4874.000	46.23	31.54	5.50	36.84	46.43	74.00	-27.57	HORIZONTAL	Peak
4	6894.806	46.98	34.85	5.81	37.18	50.46	74.00	-23.54	HORIZONTAL	Peak
5	7311.000	46.69	35.93	6.11	37.42	51.31	74.00	-22.69	HORIZONTAL	Peak
6	9748.000	43.94	38.50	7.02	37.41	52.05	74.00	-21.95	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



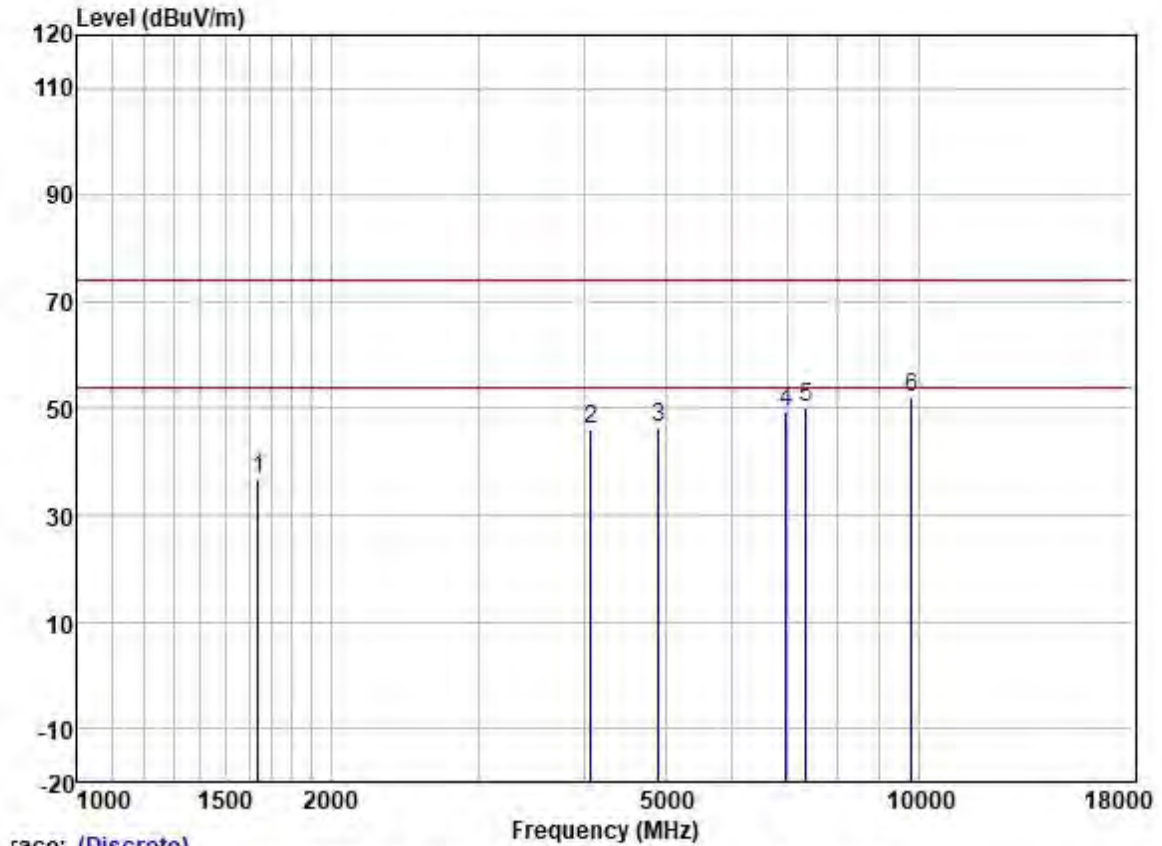
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.60	25.71	2.80	37.89	37.22	74.00	-36.78	VERTICAL	Peak
2	4157.664	48.84	30.06	4.60	36.80	46.70	74.00	-27.30	VERTICAL	Peak
3	4874.000	46.48	31.54	5.50	36.84	46.68	74.00	-27.32	VERTICAL	Peak
4	6526.373	47.06	34.03	5.84	37.02	49.91	74.00	-24.09	VERTICAL	Peak
5	7311.000	46.16	35.93	6.11	37.42	50.78	74.00	-23.22	VERTICAL	Peak
6	9748.000	44.47	38.50	7.02	37.41	52.58	74.00	-21.42	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



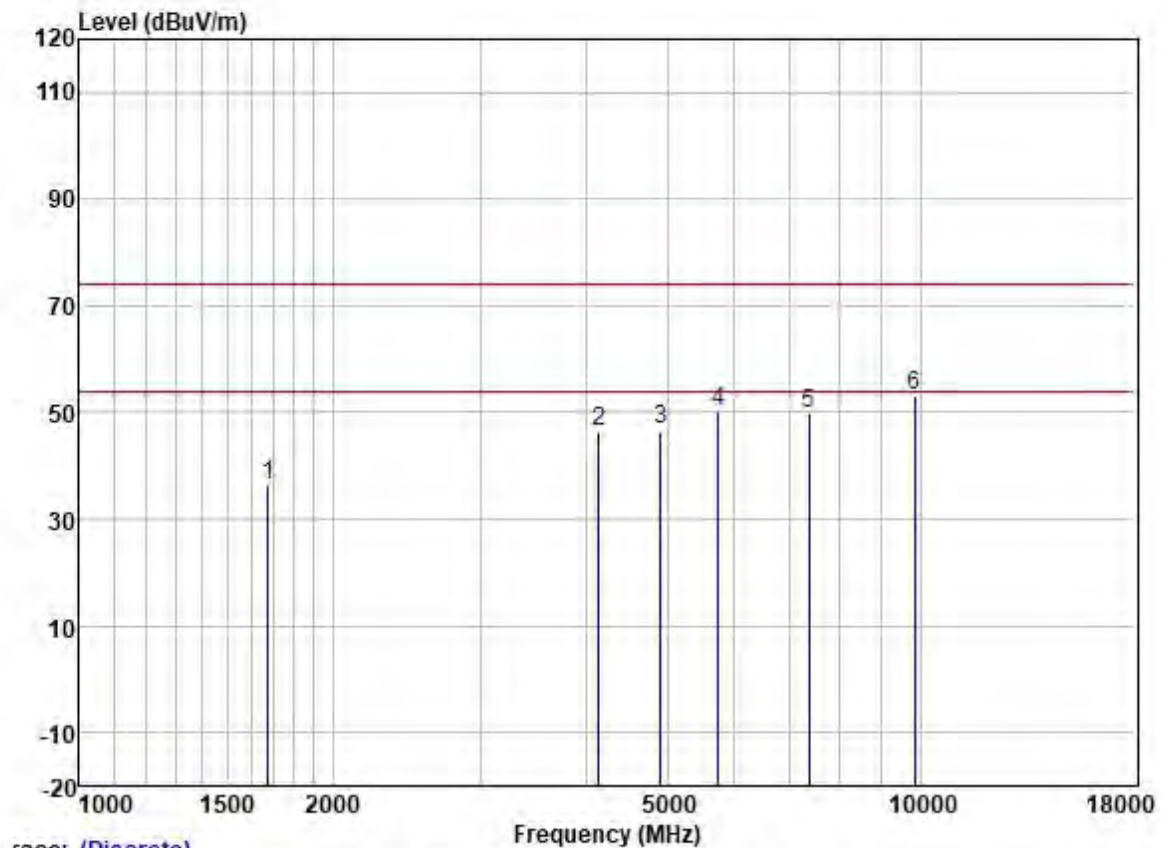
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark.
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1574.265	47.02	25.56	2.80	38.00	37.38	74.00	-36.62	HORIZONTAL	Peak
2	4443.453	47.26	30.73	4.83	36.81	46.01	74.00	-27.99	HORIZONTAL	Peak
3	4904.000	47.09	31.58	5.55	36.84	47.38	74.00	-26.62	HORIZONTAL	Peak
4	6698.373	47.00	34.38	5.83	37.08	50.13	74.00	-23.87	HORIZONTAL	Peak
5	7356.000	46.41	36.06	6.15	37.44	51.18	74.00	-22.82	HORIZONTAL	Peak
6	9808.000	44.73	38.56	7.00	37.41	52.88	74.00	-21.12	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



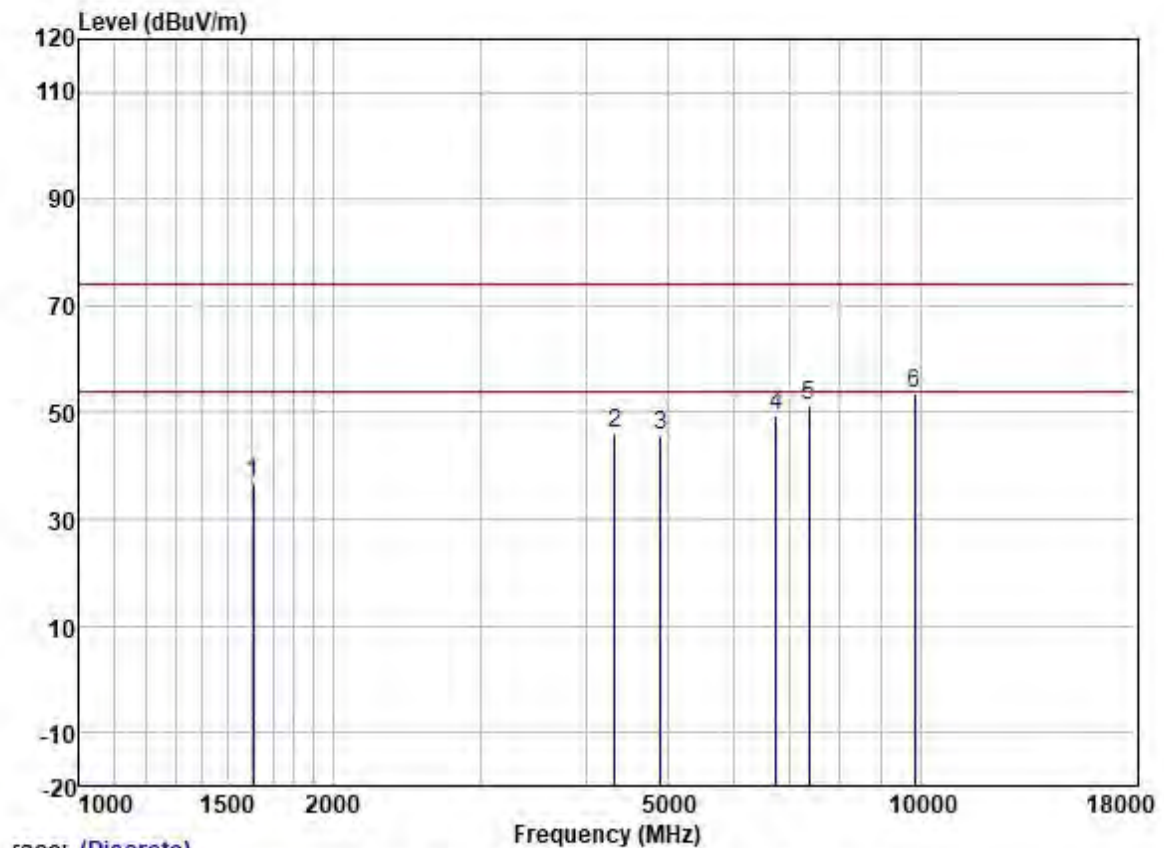
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1639.274	46.42	25.62	2.80	37.93	36.91	74.00	-37.09	VERTICAL	Peak
2	4074.388	48.42	29.90	4.60	36.80	46.12	74.00	-27.88	VERTICAL	Peak
3	4904.000	46.15	31.58	5.55	36.84	46.44	74.00	-27.56	VERTICAL	Peak
4	6954.852	45.96	34.95	5.81	37.21	49.51	74.00	-24.49	VERTICAL	Peak
5	7356.000	45.56	36.06	6.15	37.44	50.33	74.00	-23.67	VERTICAL	Peak
6	9808.000	43.87	38.56	7.00	37.41	52.02	74.00	-21.98	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



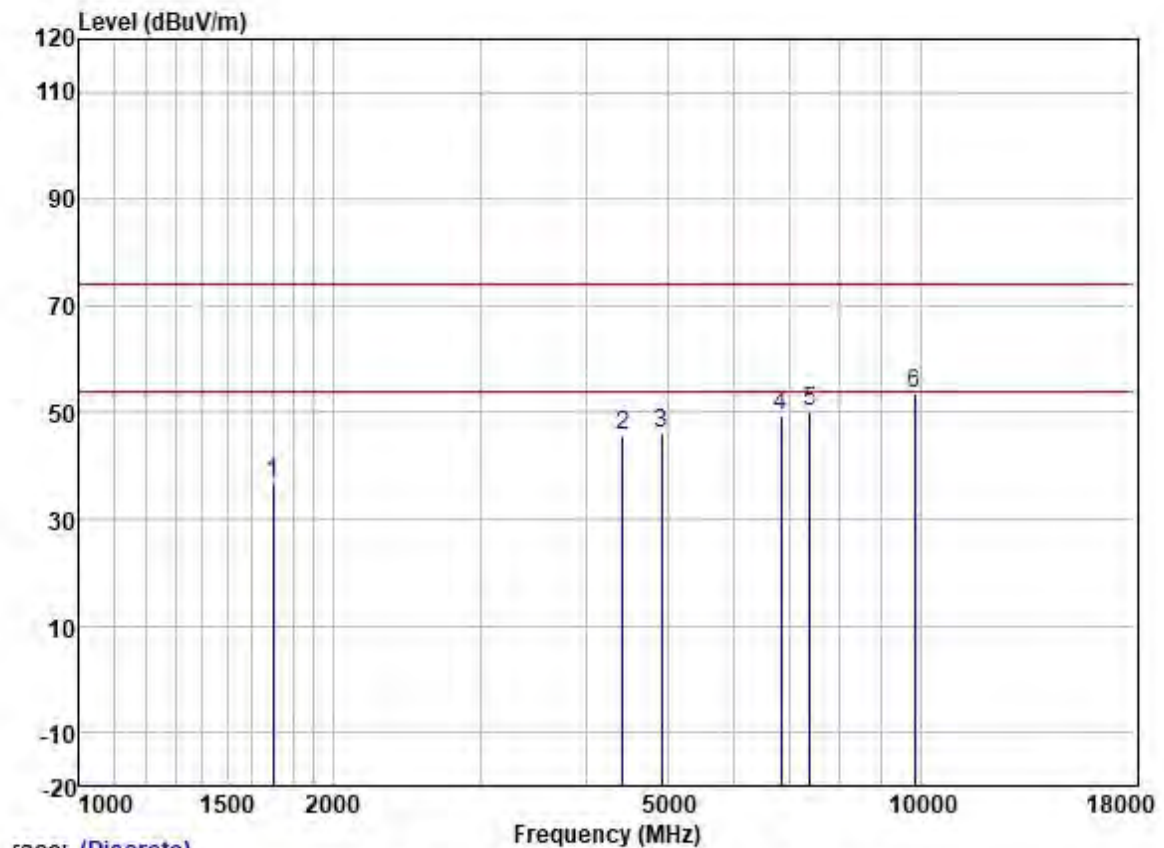
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	45.75	25.68	2.80	37.91	36.32	74.00	-37.68	HORIZONTAL	Peak
2	4145.664	48.60	30.03	4.60	36.80	46.43	74.00	-27.57	HORIZONTAL	Peak
3	4914.000	46.30	31.60	5.58	36.84	46.64	74.00	-27.36	HORIZONTAL	Peak
4	5746.982	48.67	32.10	6.20	36.89	50.08	74.00	-23.92	HORIZONTAL	Peak
5	7371.000	45.04	36.12	6.17	37.45	49.88	74.00	-24.12	HORIZONTAL	Peak
6	9828.000	44.88	38.58	6.99	37.41	53.04	74.00	-20.96	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



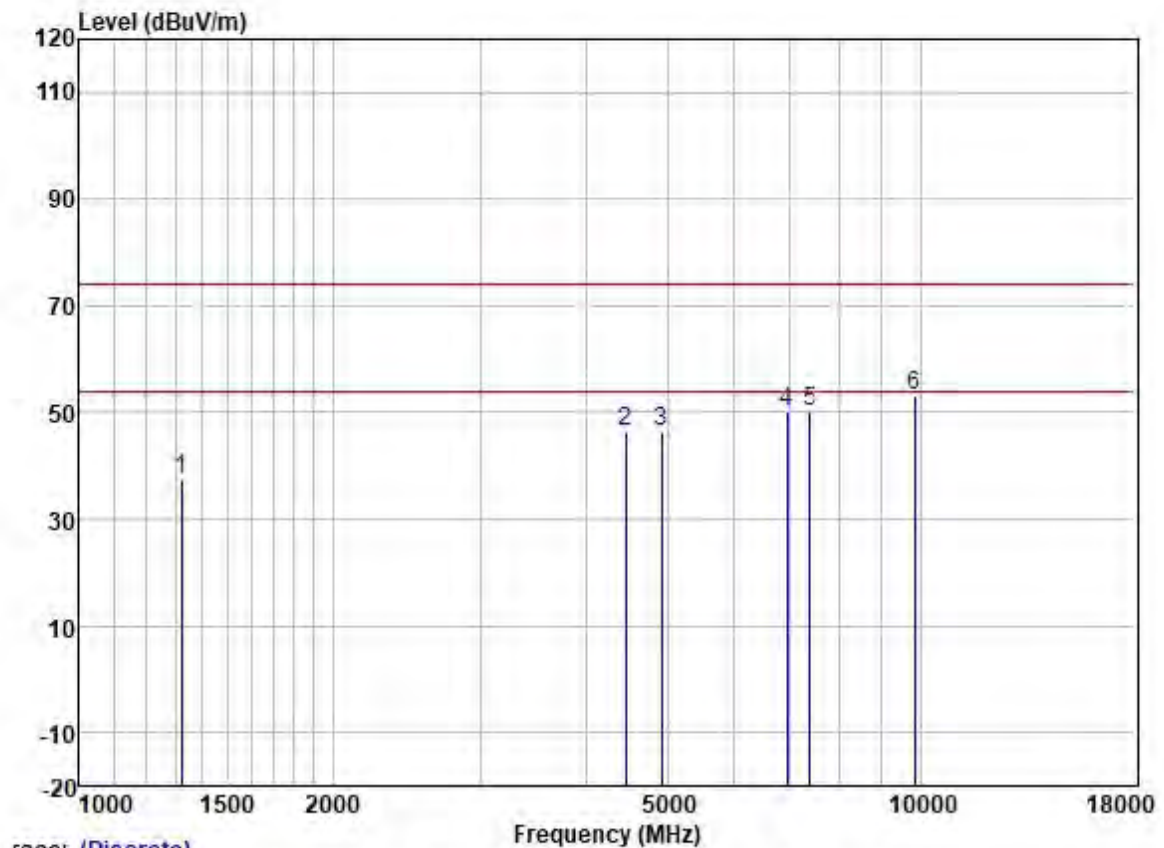
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark.
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1611.091	46.31	25.59	2.80	37.98	36.72	74.00	-37.28	VERTICAL	Peak
2	4329.354	47.79	30.54	4.67	36.81	46.19	74.00	-27.81	VERTICAL	Peak
3	4914.000	45.51	31.60	5.58	36.84	45.85	74.00	-28.15	VERTICAL	Peak
4	6737.207	46.21	34.50	5.82	37.09	49.44	74.00	-24.56	VERTICAL	Peak
5	7371.000	46.30	36.12	6.17	37.45	51.14	74.00	-22.86	VERTICAL	Peak
6	9828.000	45.53	38.58	6.99	37.41	53.69	74.00	-20.31	VERTICAL	Peak

Test Mode: 11; Polarity: Horizontal; 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	1697.129	46.22	25.71	2.80	37.89	36.84	74.00	-37.16	HORIZONTAL	Peak
2	4430.628	47.20	30.72	4.78	36.81	45.89	74.00	-28.11	HORIZONTAL	Peak
3	4924.000	45.59	31.62	5.60	36.84	45.97	74.00	-28.03	HORIZONTAL	Peak
4	6835.278	46.13	34.74	5.82	37.13	49.56	74.00	-24.44	HORIZONTAL	Peak
5	7386.000	45.37	36.17	6.19	37.45	50.28	74.00	-23.72	HORIZONTAL	Peak
6	9848.000	45.25	38.58	6.99	37.41	53.41	74.00	-20.59	HORIZONTAL	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

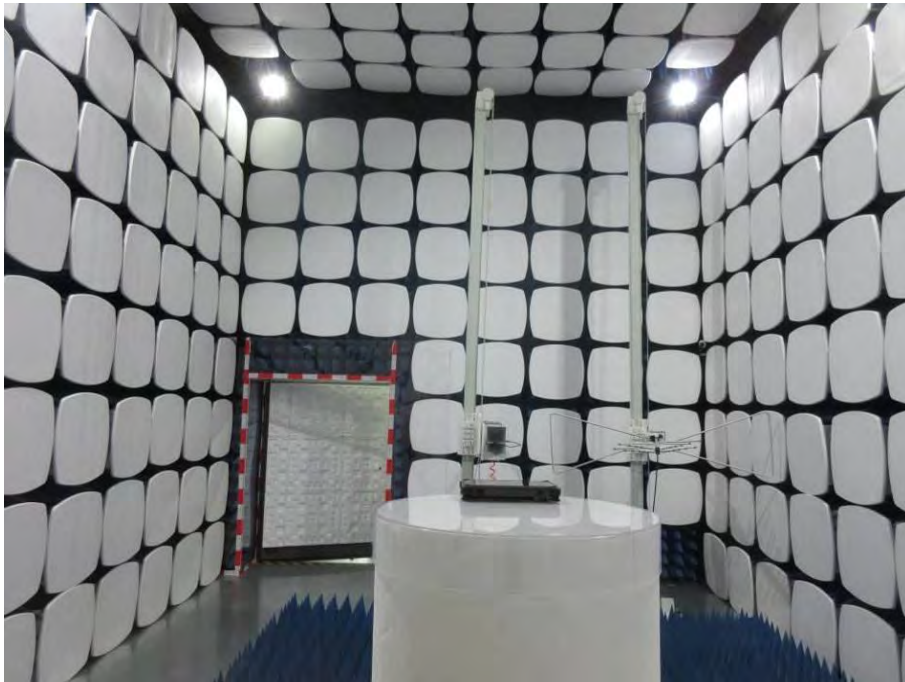
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1323.614	47.81	25.26	2.60	38.29	37.38	74.00	-36.62	VERTICAL Peak
2	4456.315	47.76	30.75	4.88	36.81	46.58	74.00	-27.42	VERTICAL Peak
3	4924.000	46.00	31.62	5.60	36.84	46.38	74.00	-27.62	VERTICAL Peak
4	6934.778	46.82	34.92	5.81	37.19	50.36	74.00	-23.64	VERTICAL Peak
5	7386.000	45.28	36.17	6.19	37.45	50.19	74.00	-23.81	VERTICAL Peak
6	9848.000	44.90	38.58	6.99	37.41	53.06	74.00	-20.94	VERTICAL Peak

8 Test Setup Photo

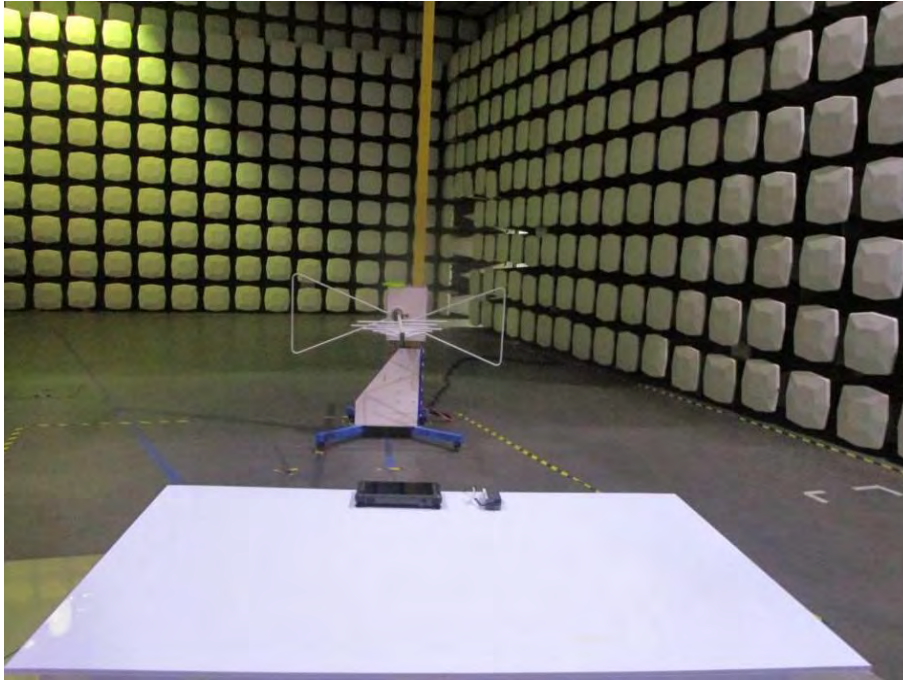
Conducted Emissions at AC Power Line (150kHz-30MHz)



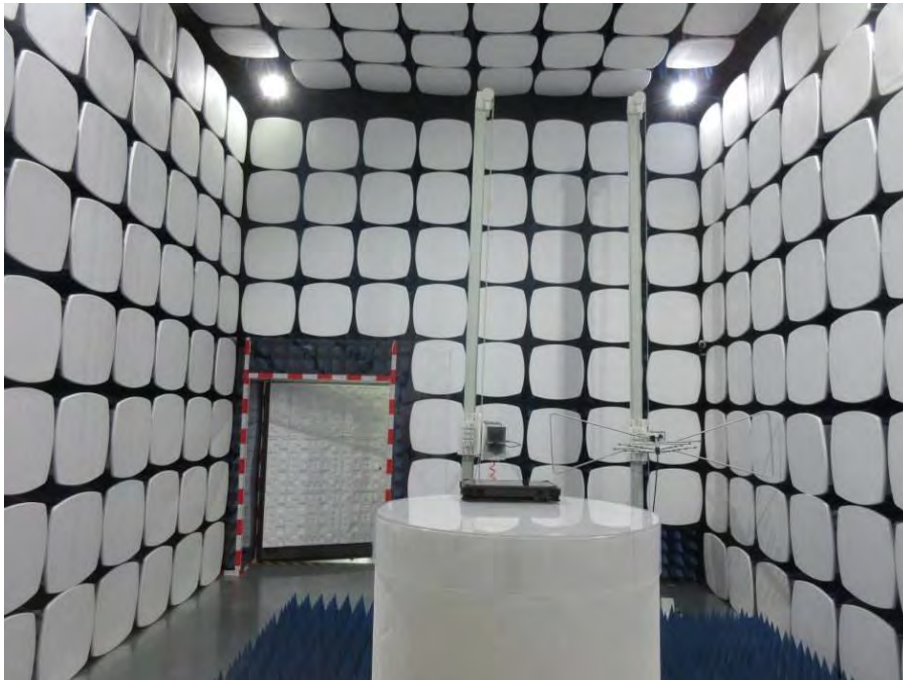
Radiated Emissions which fall in the restricted bands



Radiated Emissions below 1GHz



Radiated Emissions above 1GHz



9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020806AT

- End of the Report -