



TEST REPORT

Application No.: GZCR2112021566AT
Applicant: Wyze Labs, Inc.
Address of Applicant: 5808 Lake Washington Blvd NE, Ste 300 Kirkland WA 98033 United States Of America
Manufacturer: Wyze Labs, Inc.
Address of Manufacturer: 5808 Lake Washington Blvd NE, Ste 300 Kirkland WA 98033 United States Of America
Equipment Under Test (EUT):
EUT Name: Wyze Cam Pan v2
Model No.: WYZECP2
Trade Mark: WYZE
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-12-28
Date of Test: 2021-12-28 to 2021-12-30
Date of Issue: 2021-12-31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-12-31		Original

Authorized for issue by			
		 <hr/> Curry Wu/Project Engineer	
		 <hr/> Ricky Liu/Reviewer	



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	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.: WYZECP2

This test report (Ref. No.: GZCR211202156601) is only valid with the original test report (Ref. No.: SZCR210502130302).

Review this report and original report, this report just added a magnetic ring at one end of the 1.22 pin cable and fix it with acetic acid tape 2.3 added shielding for pin cable.

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference with being added a magnetic ring at one end of the 1.22 pin cable and fix it with acetic acid tape 2.3 added shielding for pin cable.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Peak Output Power, Radiated Spurious Emissions (Below 1GHz) Radiated Spurious Emissions (Above 1GHz) and were fully retested on model and shown the data in this report, other tests please refer to original report SZCR210502130302.



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4 General Information

4.1 Details of E.U.T.

Power Supply: Powered by adapter
 Adapter model: KA12C-0502000US
 Input: AC100-240V; 50/60Hz; 0.35A Max;
 Output: DC5V 2000mA

Cable(s): USB cable: 183cm unshielded

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: Integral Antenna

Antenna Gain: 2dBi declared by applicant

4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Radiated Spurious Emissions (Below 1GHz)	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m)
Radiated Spurious Emissions (Above 1GHz)	± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)



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4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

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

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01

Radiated Spurious Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
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
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
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
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15



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Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

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



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6 Radio Spectrum Matter Test Results

6.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
 Test Method: ANSI C63.10 (2013) Section 11.9.1.3
 Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.1.1 E.U.T. Operation

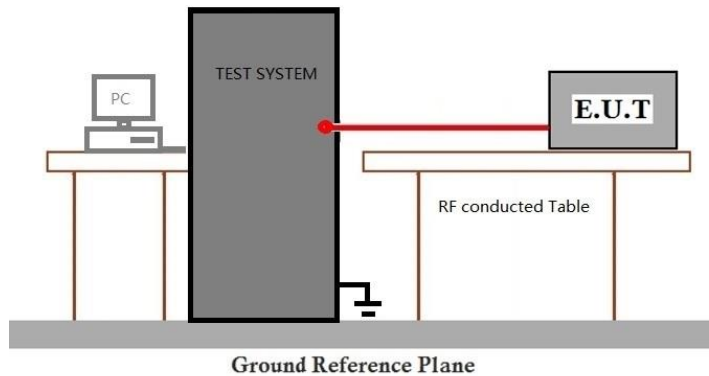
Operating Environment:

Temperature: 22.7 °C Humidity: 51.6 % RH Atmospheric Pressure: 1003 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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). Only the data of worst case is recorded in the report.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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6.2 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
 Measurement Distance: 3m
 Limit:

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

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.

6.2.1 E.U.T. Operation

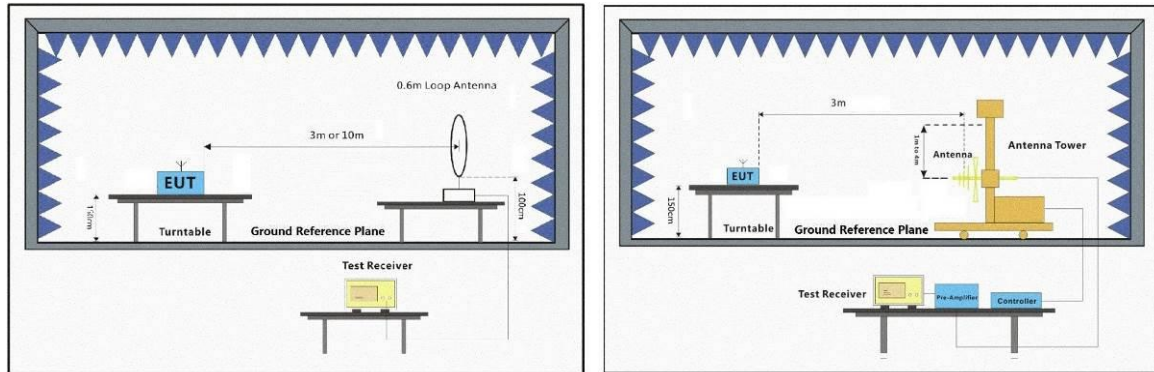
Operating Environment:
 Temperature: 24.3 °C Humidity: 54.1 % RH Atmospheric Pressure: 1003 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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). Only the data of worst case is recorded in the report.



6.2.3 Test Setup Diagram



6.2.4 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:

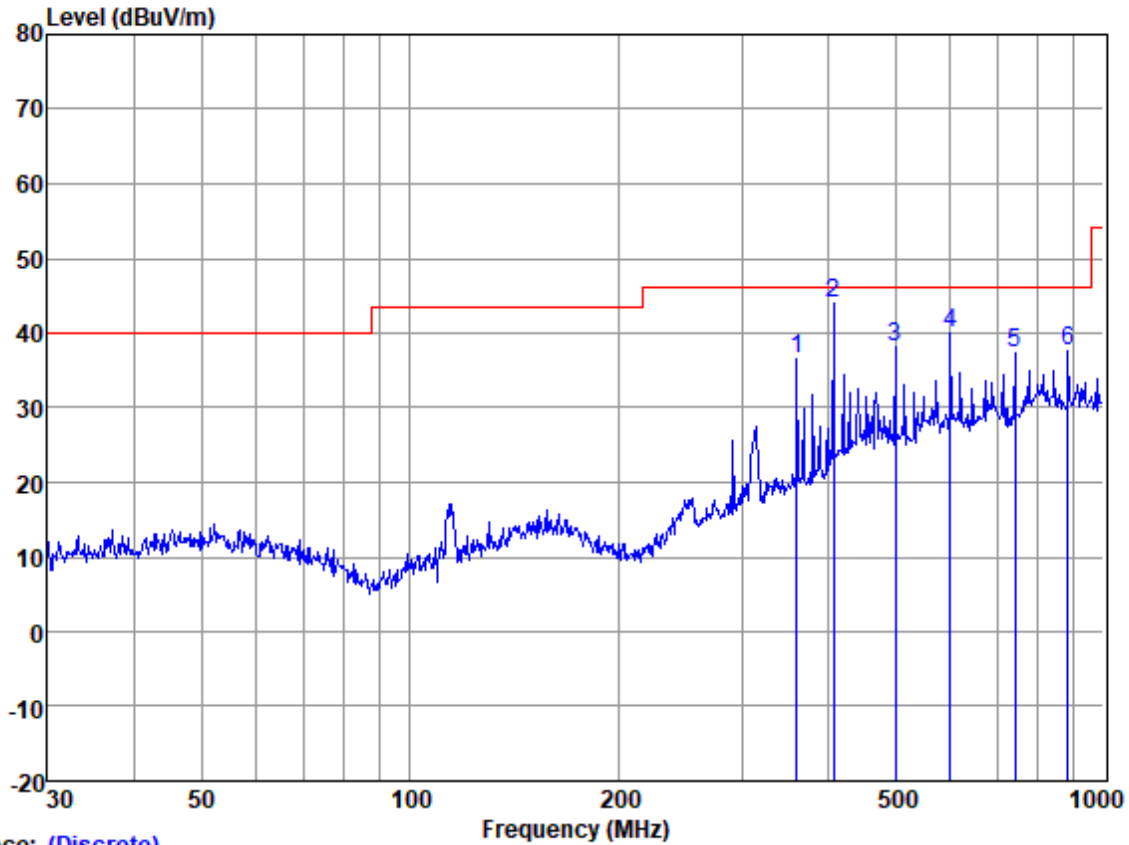
- Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 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.



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Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

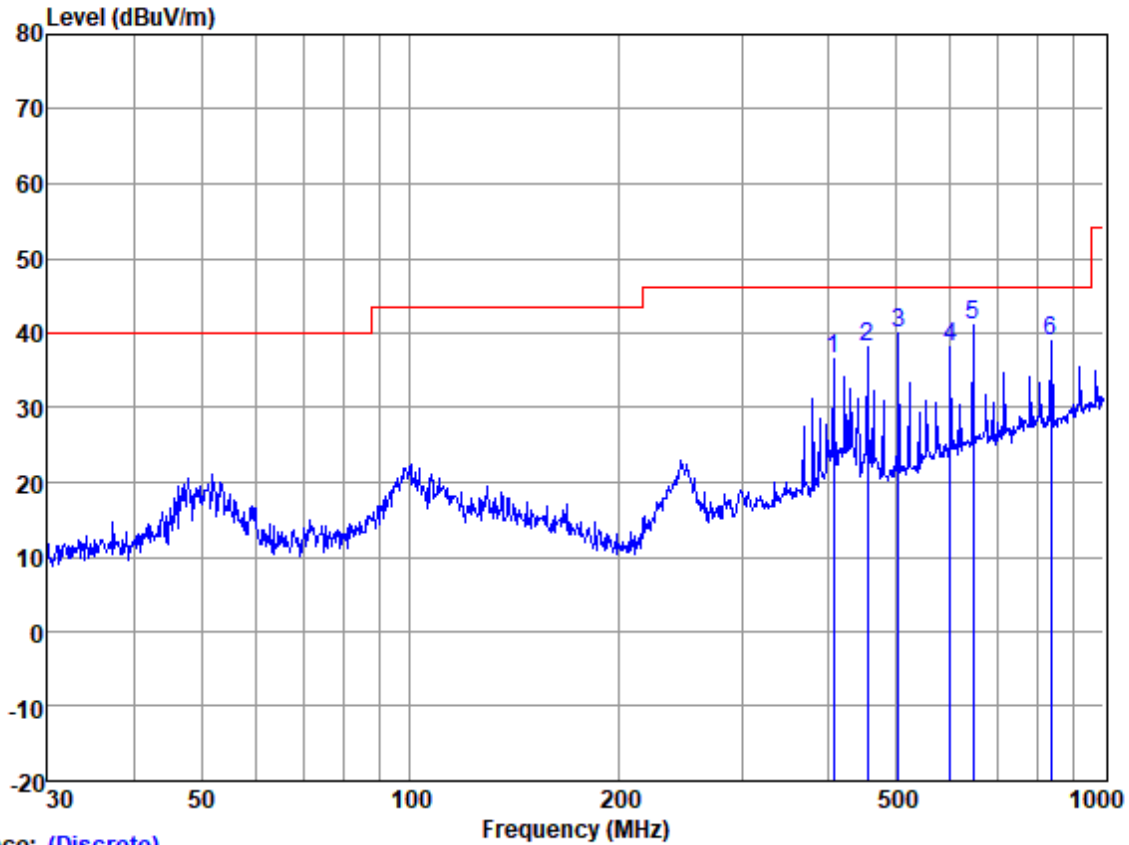
Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	360.45	45.02	14.90	3.70	27.11	36.51	46.00	-9.49	HORIZONTAL	QP
2	407.51	51.45	15.85	3.97	27.36	43.91	46.00	-2.09	HORIZONTAL	QP
3	499.42	43.86	17.90	4.39	27.98	38.17	46.00	-7.83	HORIZONTAL	QP
4	599.32	43.10	19.90	5.14	28.21	39.93	46.00	-6.07	HORIZONTAL	QP
5	744.87	37.27	22.10	5.97	28.10	37.24	46.00	-8.76	HORIZONTAL	QP
6	887.61	35.66	23.07	6.86	27.86	37.73	46.00	-8.27	HORIZONTAL	QP



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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

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

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	407.51	44.04	15.85	3.97	27.36	36.50	46.00	-9.50	VERTICAL	QP
2	455.91	44.16	17.42	4.22	27.75	38.05	46.00	-7.95	VERTICAL	QP
3	504.71	45.47	18.00	4.43	27.99	39.91	46.00	-6.09	VERTICAL	QP
4	599.32	41.29	19.90	5.14	28.21	38.12	46.00	-7.88	VERTICAL	QP
5	647.39	43.19	20.48	5.51	28.18	41.00	46.00	-5.00	VERTICAL	QP
6	839.18	37.74	22.70	6.46	27.97	38.93	46.00	-7.07	VERTICAL	QP



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6.3 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
 Measurement Distance: 3m
 Limit:

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

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.

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.2 °C Humidity: 53.6 % RH Atmospheric Pressure: 1003 mbar

6.3.2 Test Mode Description

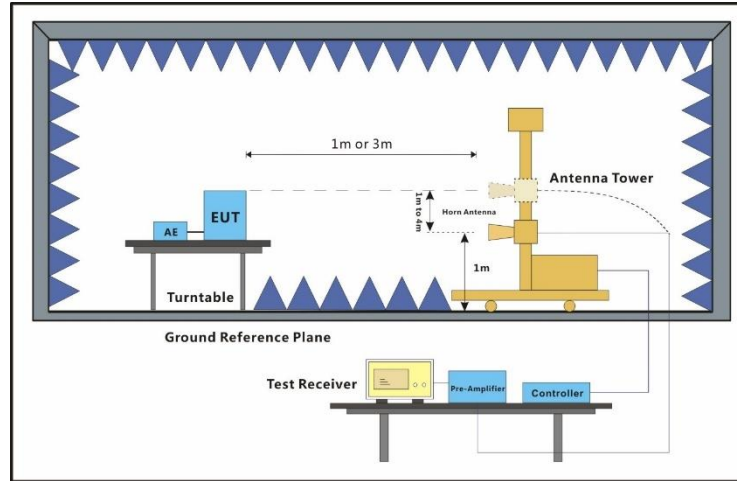
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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 Guangzhou Branch Technical Services 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

6.3.3 Test Setup Diagram



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6.3.4 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:

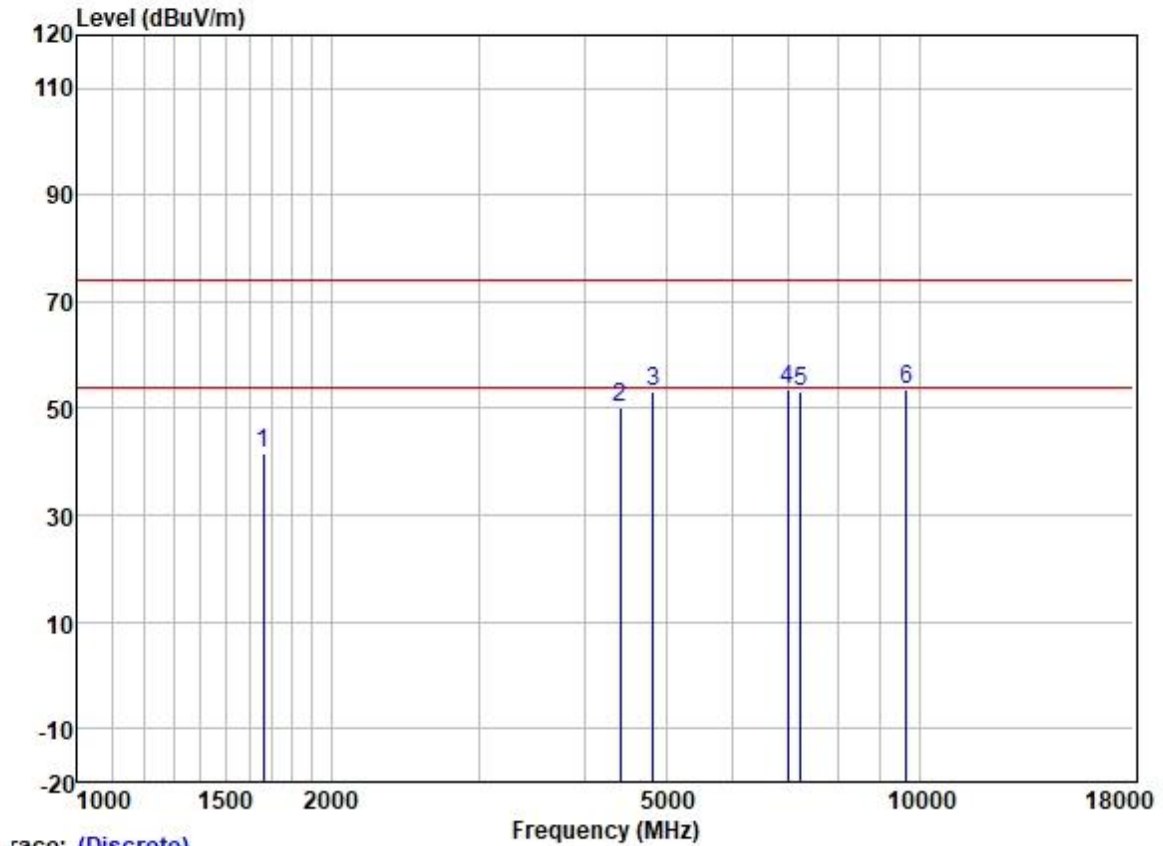
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



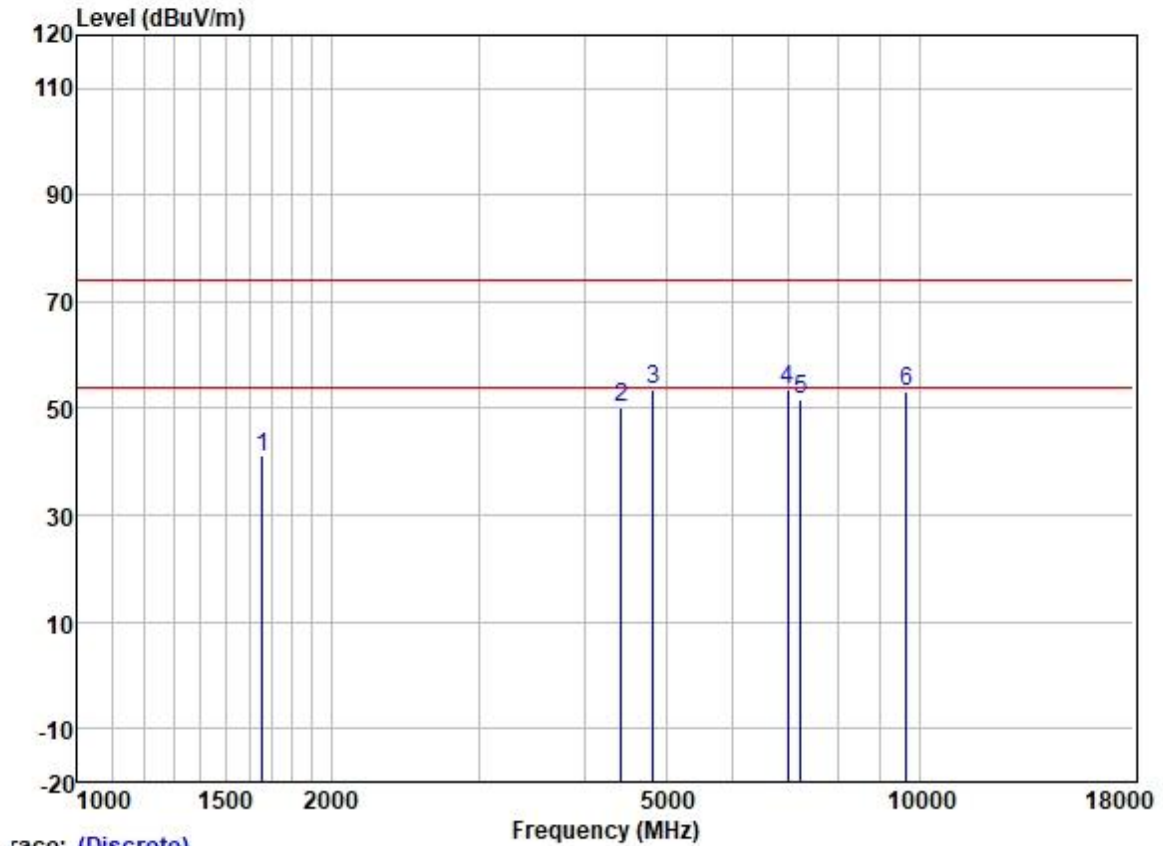
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	51.21	25.65	2.80	37.91	41.75	74.00	-32.25	HORIZONTAL	Peak
2	4417.841	51.73	30.70	4.74	36.81	50.36	74.00	-23.64	HORIZONTAL	Peak
3	4824.000	53.12	31.45	5.42	36.83	53.16	74.00	-20.84	HORIZONTAL	Peak
4	6974.982	50.01	34.97	5.81	37.23	53.56	74.00	-20.44	HORIZONTAL	Peak
5	7236.000	48.82	35.70	6.03	37.39	53.16	74.00	-20.84	HORIZONTAL	Peak
6	9648.000	45.38	38.40	7.06	37.42	53.42	74.00	-20.58	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

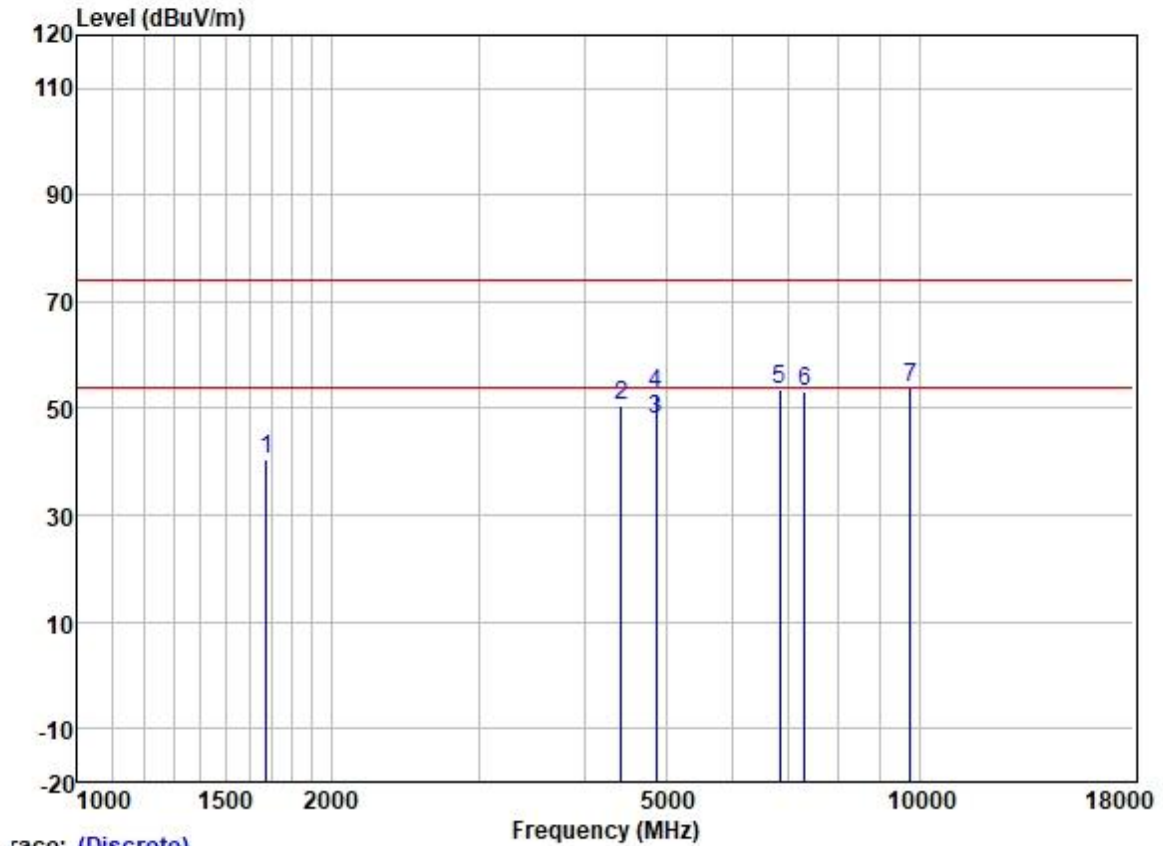
	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1658.337	50.52	25.65	2.80	37.93	41.04	74.00	-32.96	VERTICAL	Peak
2	4430.628	51.66	30.72	4.78	36.81	50.35	74.00	-23.65	VERTICAL	Peak
3	4824.000	53.69	31.45	5.42	36.83	53.73	74.00	-20.27	VERTICAL	Peak
4	6974.982	49.85	34.97	5.81	37.23	53.40	74.00	-20.60	VERTICAL	Peak
5	7236.000	47.25	35.70	6.03	37.39	51.59	74.00	-22.41	VERTICAL	Peak
6	9648.000	45.24	38.40	7.06	37.42	53.28	74.00	-20.72	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



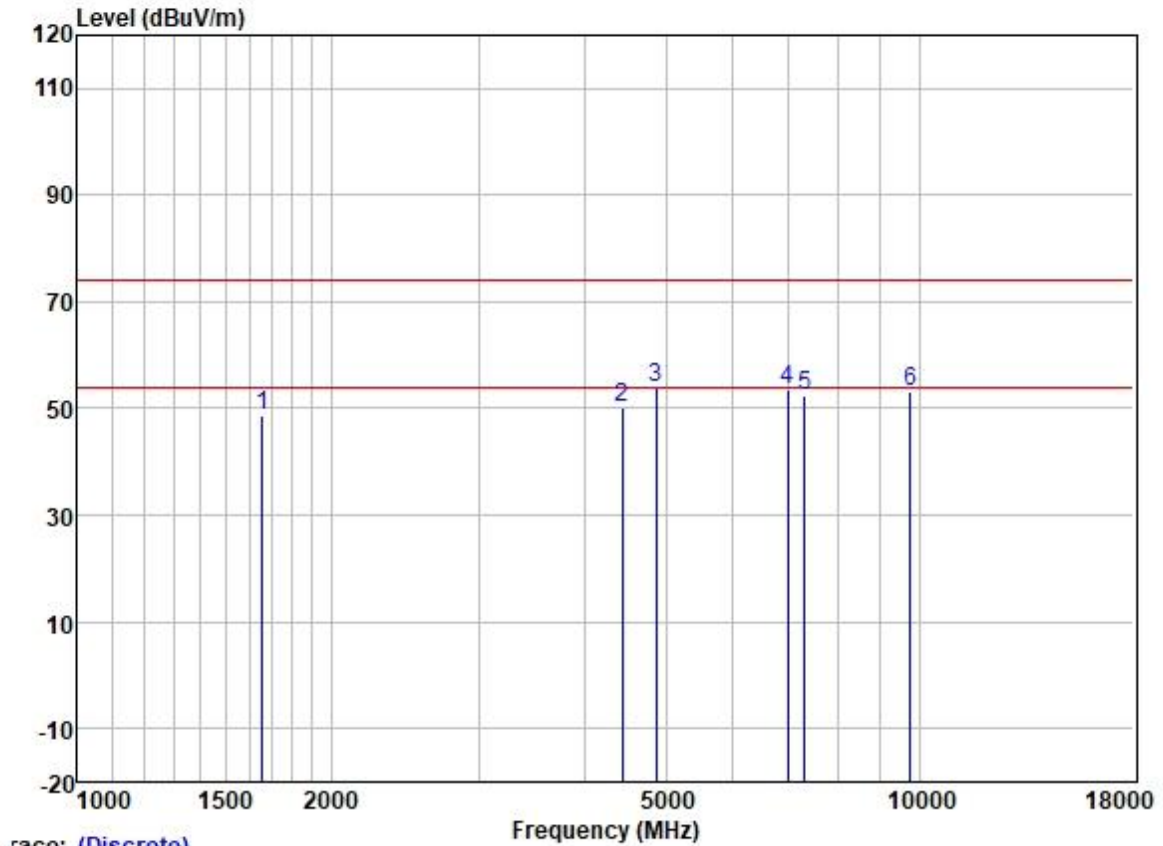
Trace: (Discrete)

	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	1677.621	50.07	25.68	2.80	37.91	40.64	74.00	-33.36	HORIZONTAL	Peak
2	4430.628	51.72	30.72	4.78	36.81	50.41	74.00	-23.59	HORIZONTAL	Peak
3	4874.000	47.67	31.54	5.50	36.84	47.87	54.00	-6.13	HORIZONTAL	Average
4	4874.000	52.45	31.54	5.50	36.84	52.65	74.00	-21.35	HORIZONTAL	Peak
5	6835.278	50.30	34.74	5.82	37.13	53.73	74.00	-20.27	HORIZONTAL	Peak
6	7311.000	48.46	35.93	6.11	37.42	53.08	74.00	-20.92	HORIZONTAL	Peak
7	9748.000	45.84	38.50	7.02	37.41	53.95	74.00	-20.05	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



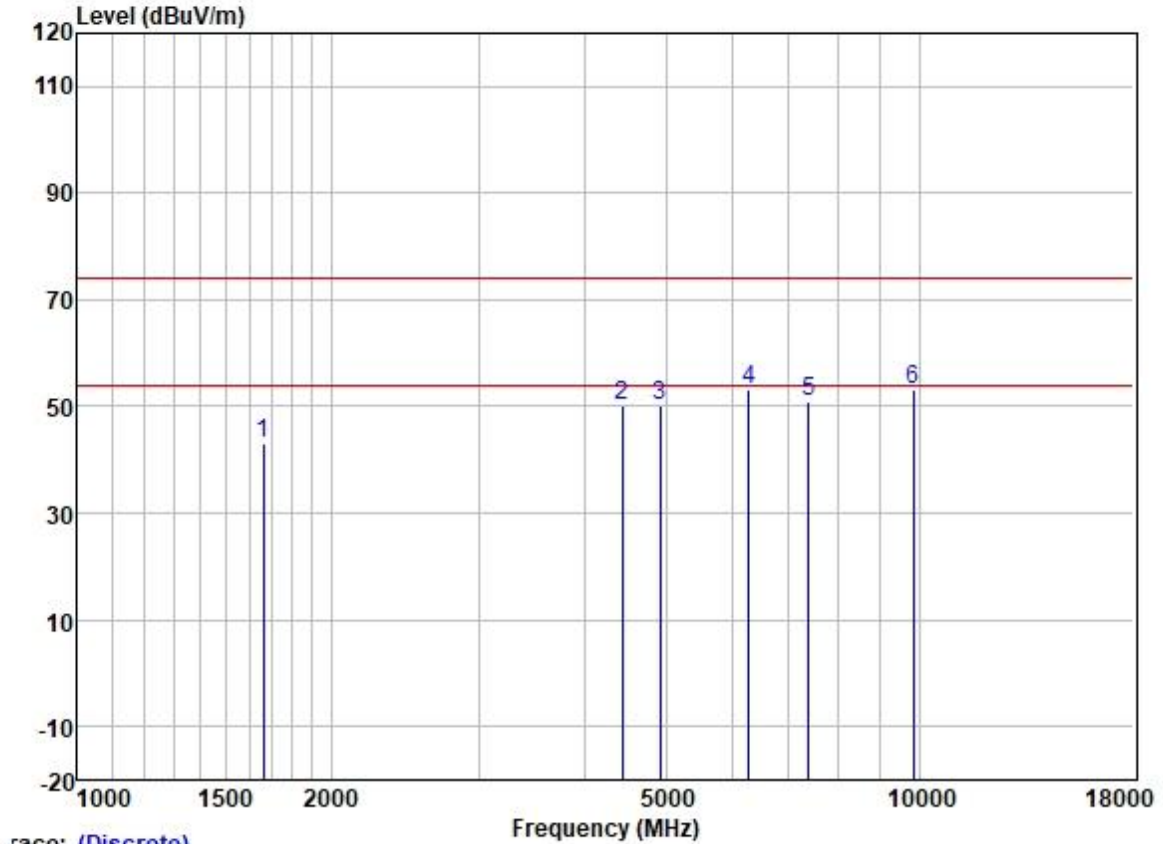
Trace: (Discrete)

	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	1658.337	58.10	25.65	2.80	37.93	48.62	74.00	-25.38	VERTICAL	Peak
2	4443.453	51.45	30.73	4.83	36.81	50.20	74.00	-23.80	VERTICAL	Peak
3	4874.000	53.68	31.54	5.50	36.84	53.88	74.00	-20.12	VERTICAL	Peak
4	6974.982	49.85	34.97	5.81	37.23	53.40	74.00	-20.60	VERTICAL	Peak
5	7311.000	47.93	35.93	6.11	37.42	52.55	74.00	-21.45	VERTICAL	Peak
6	9748.000	44.95	38.50	7.02	37.41	53.06	74.00	-20.94	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



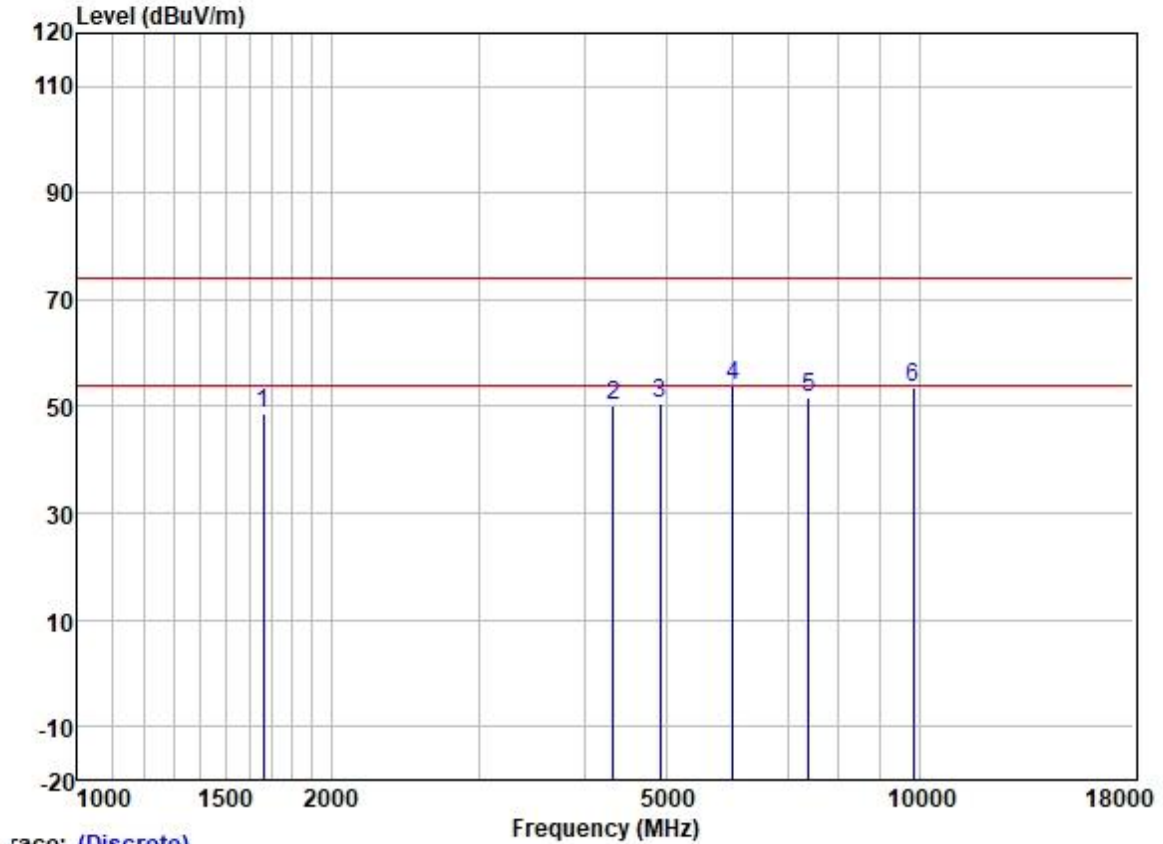
Trace: (Discrete)

	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	1663.137	52.52	25.65	2.80	37.91	43.06	74.00	-30.94	HORIZONTAL Peak
2	4443.453	51.62	30.73	4.83	36.81	50.37	74.00	-23.63	HORIZONTAL Peak
3	4924.000	49.67	31.62	5.60	36.84	50.05	74.00	-23.95	HORIZONTAL Peak
4	6267.553	50.72	33.29	6.00	36.95	53.06	74.00	-20.94	HORIZONTAL Peak
5	7386.000	46.20	36.17	6.19	37.45	51.11	74.00	-22.89	HORIZONTAL Peak
6	9848.000	44.95	38.58	6.99	37.41	53.11	74.00	-20.89	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



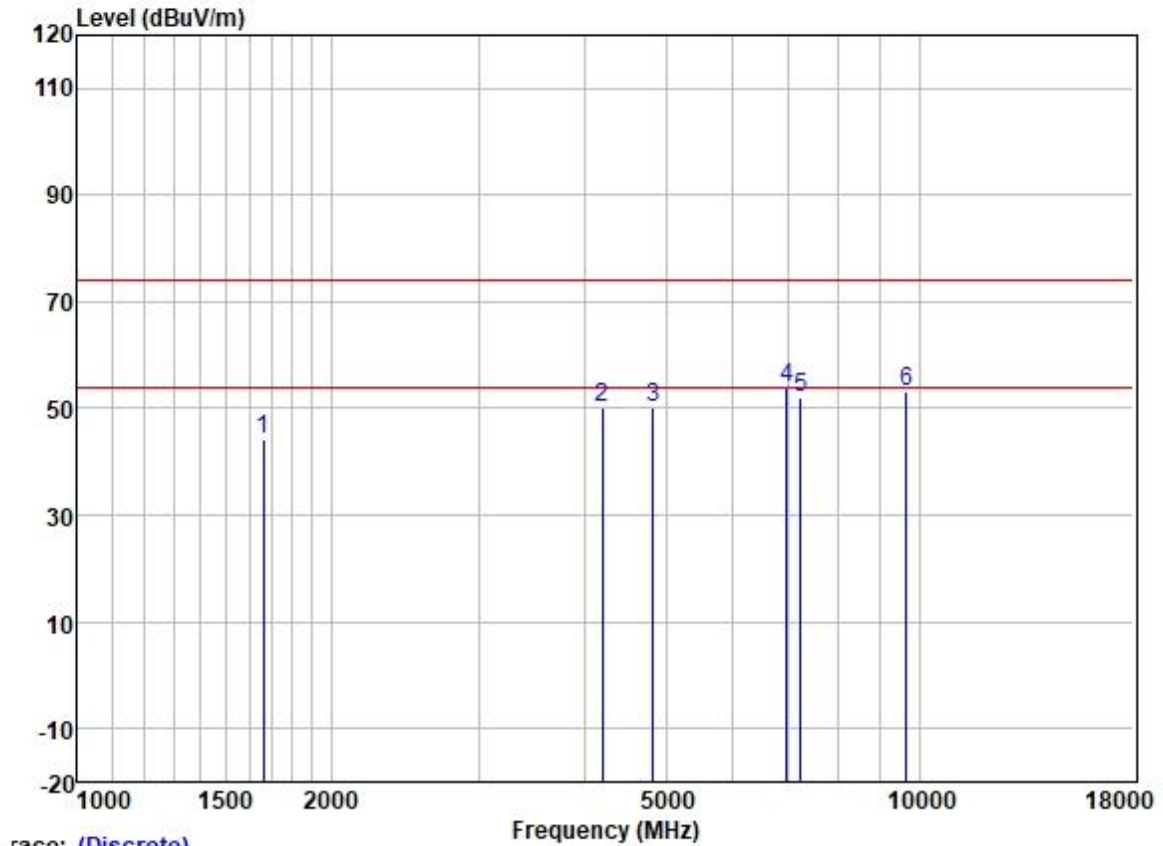
Trace: (Discrete)

	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	1663.137	58.06	25.65	2.80	37.91	48.60	74.00	-25.40	VERTICAL	Peak
2	4329.354	51.82	30.54	4.67	36.81	50.22	74.00	-23.78	VERTICAL	Peak
3	4924.000	50.30	31.62	5.60	36.84	50.68	74.00	-23.32	VERTICAL	Peak
4	6001.626	52.15	32.40	6.20	36.90	53.85	74.00	-20.15	VERTICAL	Peak
5	7386.000	46.76	36.17	6.19	37.45	51.67	74.00	-22.33	VERTICAL	Peak
6	9848.000	45.30	38.58	6.99	37.41	53.46	74.00	-20.54	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



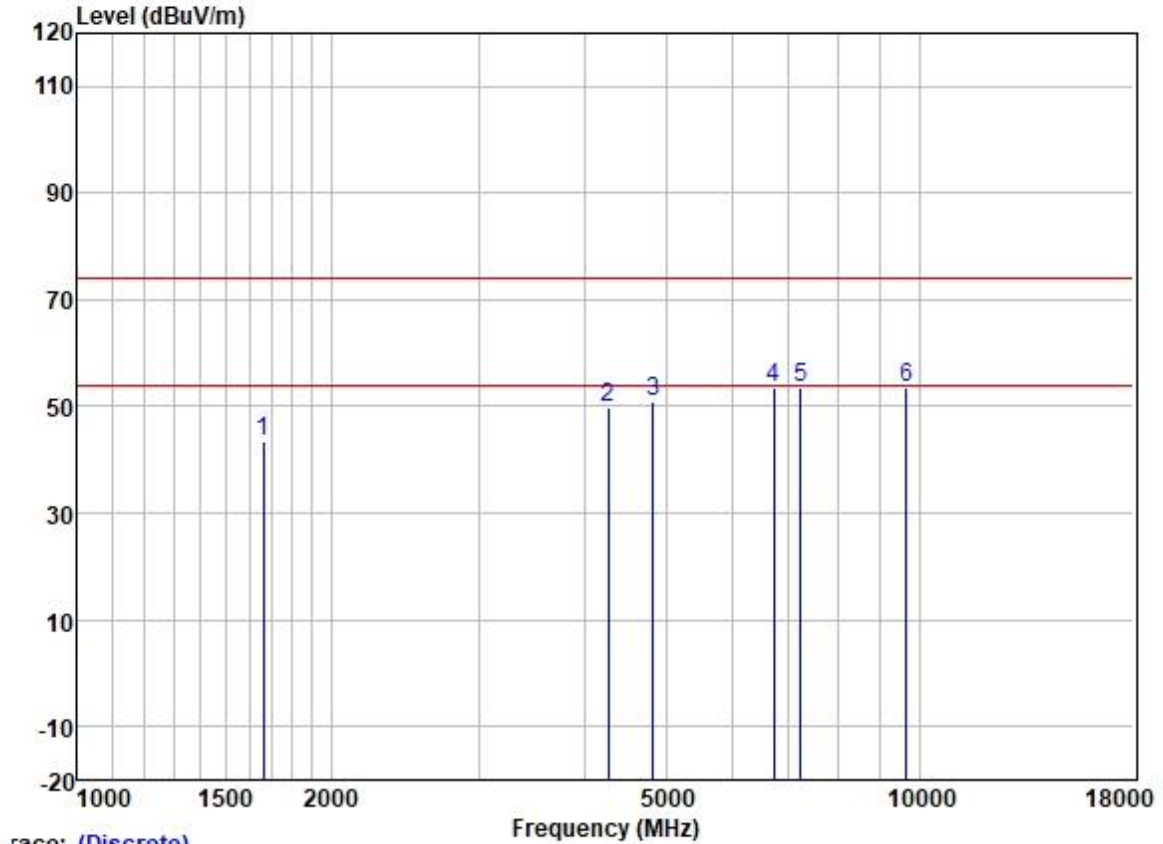
race: (Discrete)

	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	1663.137	53.84	25.65	2.80	37.91	44.38	74.00	-29.62	HORIZONTAL	Peak
2	4206.011	52.19	30.18	4.60	36.81	50.16	74.00	-23.84	HORIZONTAL	Peak
3	4824.000	50.30	31.45	5.42	36.83	50.34	74.00	-23.66	HORIZONTAL	Peak
4	6954.852	50.29	34.95	5.81	37.21	53.84	74.00	-20.16	HORIZONTAL	Peak
5	7236.000	47.75	35.70	6.03	37.39	52.09	74.00	-21.91	HORIZONTAL	Peak
6	9648.000	44.96	38.40	7.06	37.42	53.00	74.00	-21.00	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



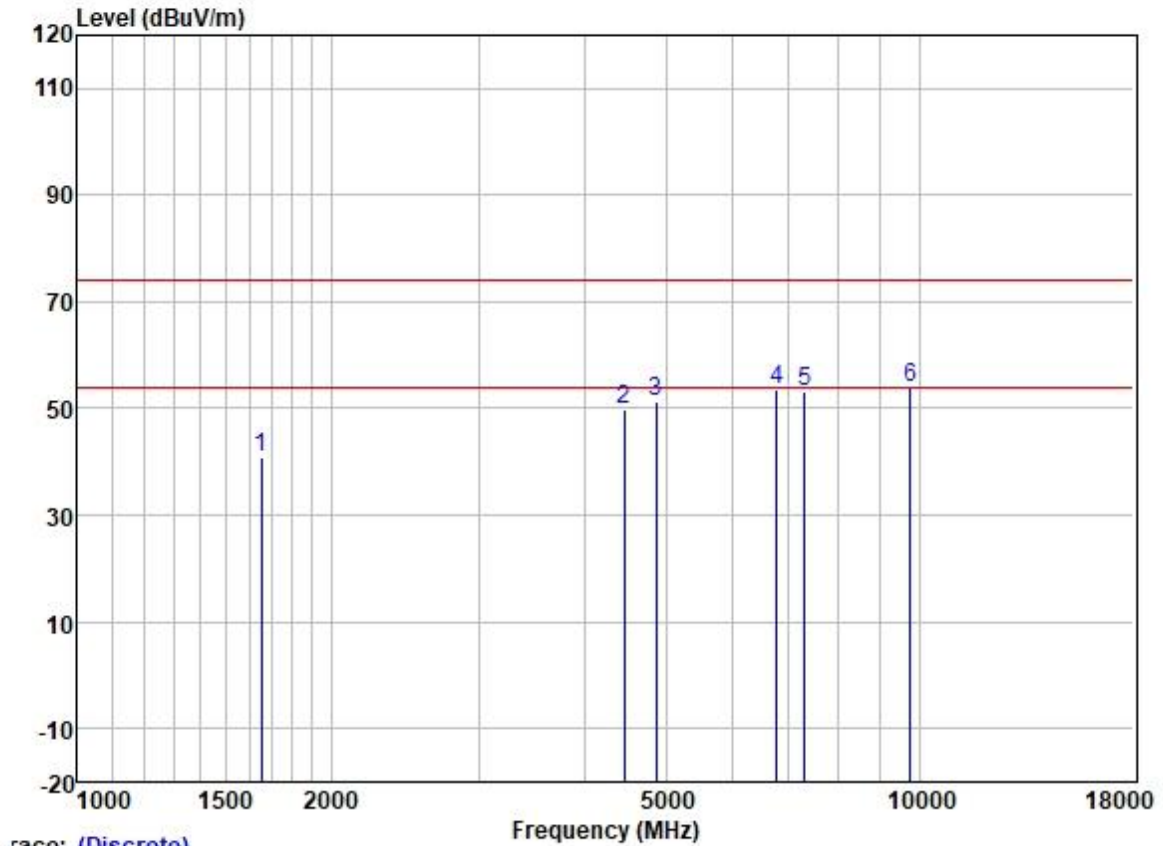
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	52.88	25.65	2.80	37.91	43.42	74.00	-30.58	VERTICAL	Peak
2	4267.237	51.45	30.38	4.63	36.81	49.65	74.00	-24.35	VERTICAL	Peak
3	4824.000	50.99	31.45	5.42	36.83	51.03	74.00	-22.97	VERTICAL	Peak
4	6717.762	50.34	34.44	5.83	37.09	53.52	74.00	-20.48	VERTICAL	Peak
5	7236.000	49.36	35.70	6.03	37.39	53.70	74.00	-20.30	VERTICAL	Peak
6	9648.000	45.48	38.40	7.06	37.42	53.52	74.00	-20.48	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



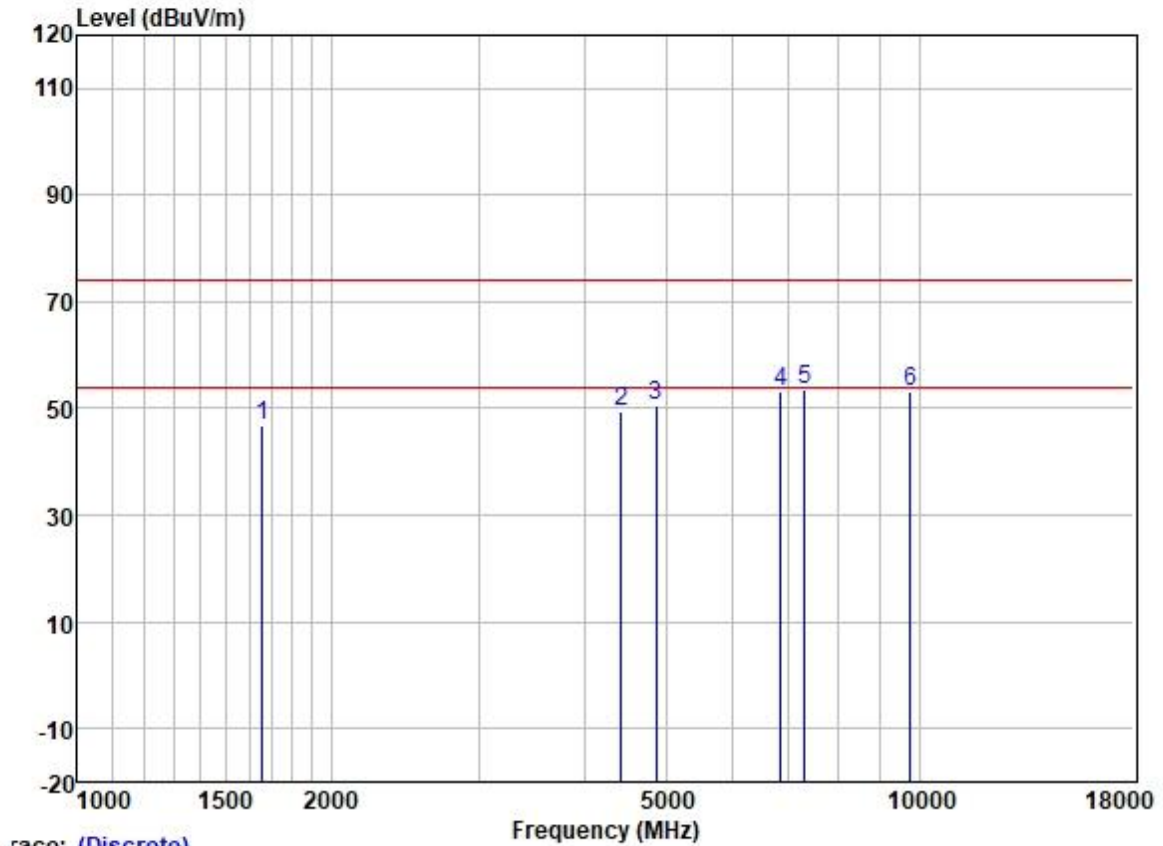
Trace: (Discrete)

	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	1653.550	50.34	25.64	2.80	37.93	40.85	74.00	-33.15	HORIZONTAL	Peak
2	4456.315	50.95	30.75	4.88	36.81	49.77	74.00	-24.23	HORIZONTAL	Peak
3	4874.000	50.94	31.54	5.50	36.84	51.14	74.00	-22.86	HORIZONTAL	Peak
4	6776.265	50.11	34.61	5.82	37.11	53.43	74.00	-20.57	HORIZONTAL	Peak
5	7311.000	48.66	35.93	6.11	37.42	53.28	74.00	-20.72	HORIZONTAL	Peak
6	9748.000	45.65	38.50	7.02	37.41	53.76	74.00	-20.24	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



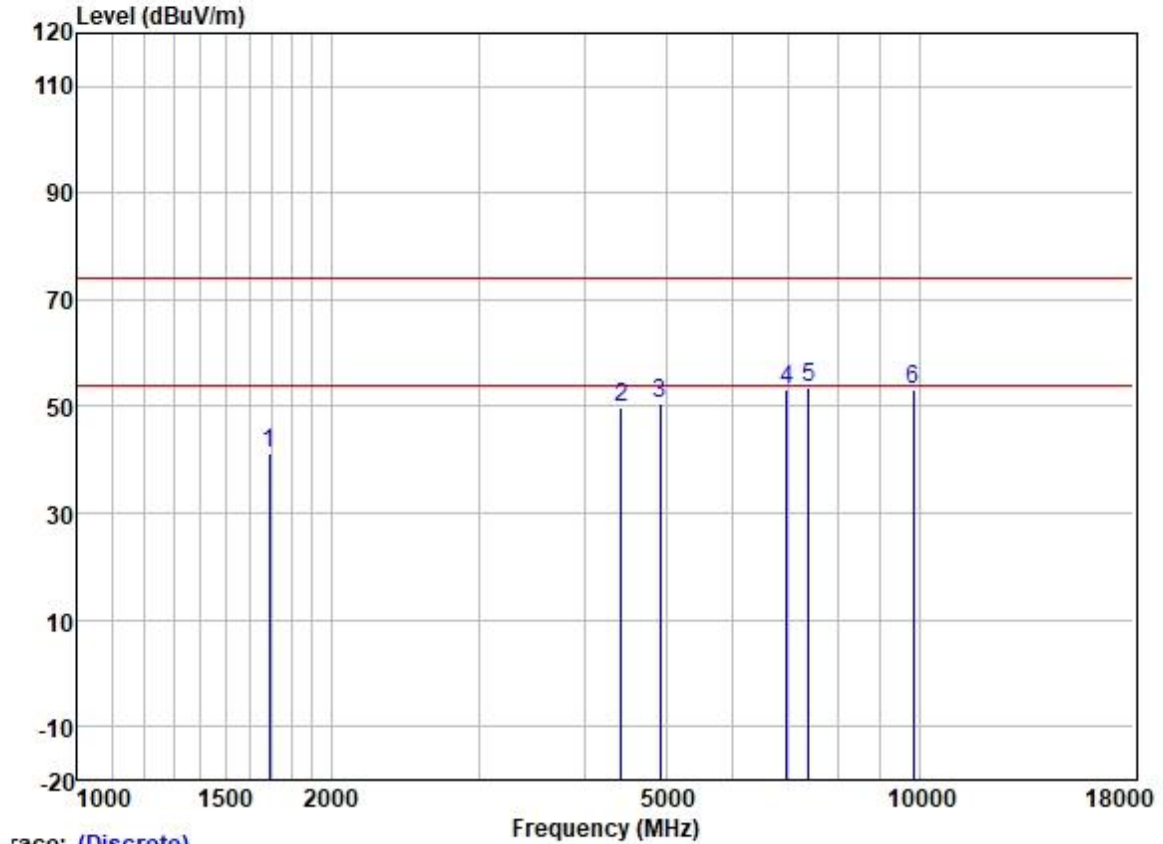
Trace: (Discrete)

	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	1658.337	56.38	25.65	2.80	37.93	46.90	74.00	-27.10	VERTICAL	Peak
2	4430.628	50.82	30.72	4.78	36.81	49.51	74.00	-24.49	VERTICAL	Peak
3	4874.000	50.38	31.54	5.50	36.84	50.58	74.00	-23.42	VERTICAL	Peak
4	6855.063	49.87	34.78	5.82	37.15	53.32	74.00	-20.68	VERTICAL	Peak
5	7311.000	48.90	35.93	6.11	37.42	53.52	74.00	-20.48	VERTICAL	Peak
6	9748.000	44.90	38.50	7.02	37.41	53.01	74.00	-20.99	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



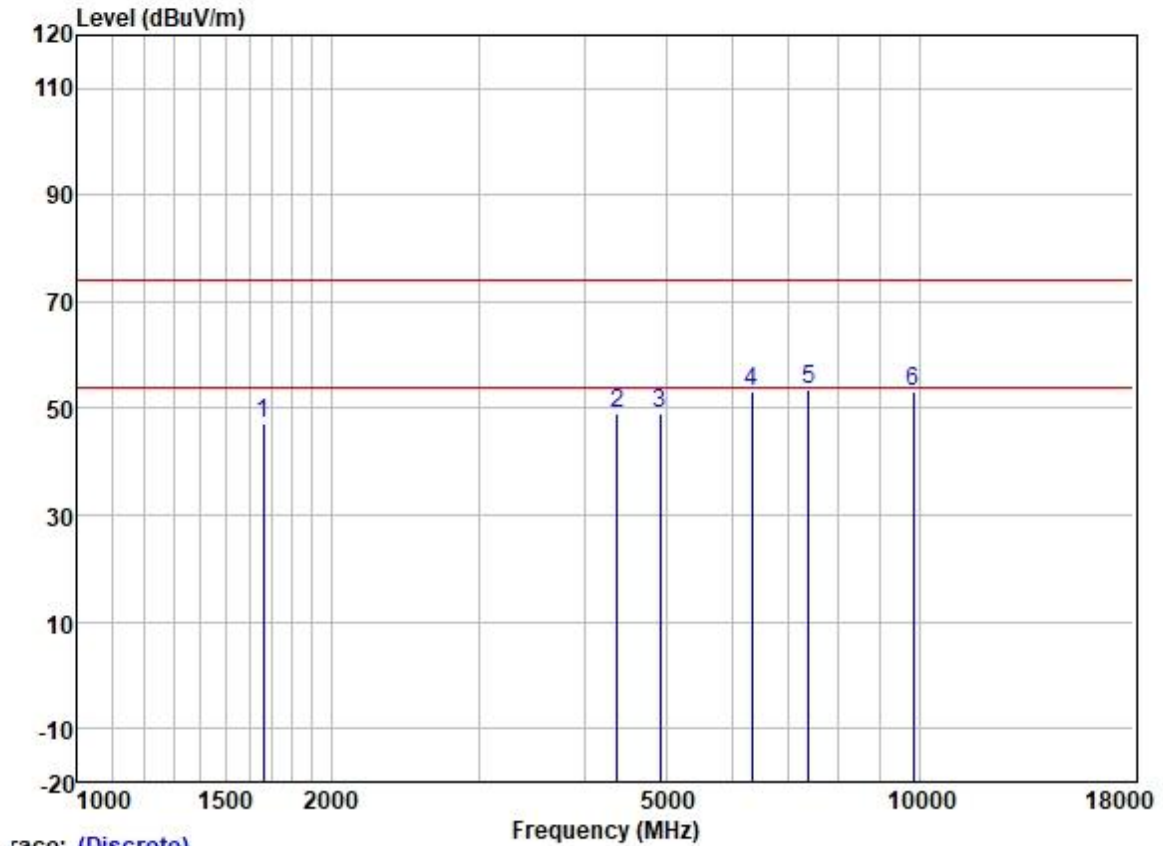
Trace: (Discrete)

	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	1692.231	50.53	25.70	2.80	37.89	41.14	74.00	-32.86	HORIZONTAL	Peak
2	4430.628	51.22	30.72	4.78	36.81	49.91	74.00	-24.09	HORIZONTAL	Peak
3	4924.000	50.14	31.62	5.60	36.84	50.52	74.00	-23.48	HORIZONTAL	Peak
4	6954.852	49.66	34.95	5.81	37.21	53.21	74.00	-20.79	HORIZONTAL	Peak
5	7386.000	48.79	36.17	6.19	37.45	53.70	74.00	-20.30	HORIZONTAL	Peak
6	9848.000	45.00	38.58	6.99	37.41	53.16	74.00	-20.84	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



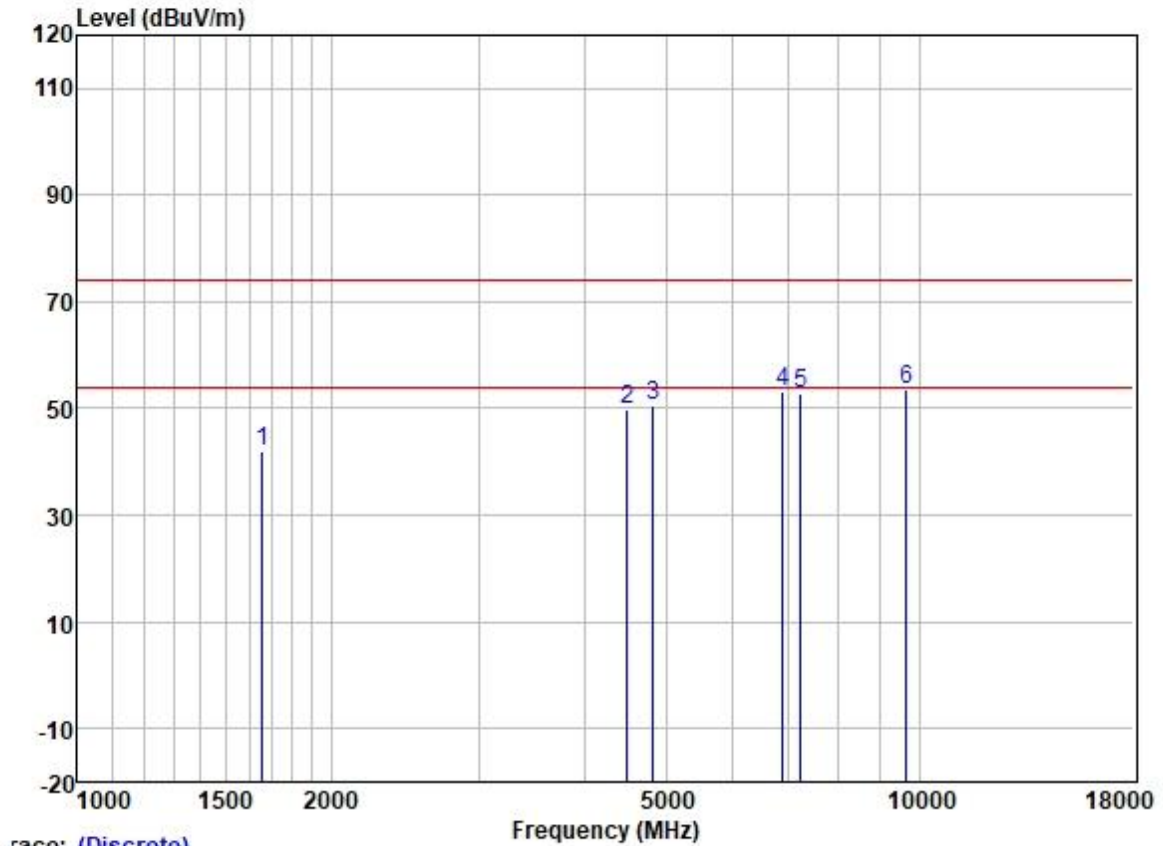
Trace: (Discrete)

	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	1663.137	56.54	25.65	2.80	37.91	47.08	74.00	-26.92	VERTICAL Peak
2	4379.699	50.67	30.64	4.69	36.81	49.19	74.00	-24.81	VERTICAL Peak
3	4924.000	48.84	31.62	5.60	36.84	49.22	74.00	-24.78	VERTICAL Peak
4	6322.136	50.50	33.51	5.95	36.97	52.99	74.00	-21.01	VERTICAL Peak
5	7386.000	48.51	36.17	6.19	37.45	53.42	74.00	-20.58	VERTICAL Peak
6	9848.000	44.87	38.58	6.99	37.41	53.03	74.00	-20.97	VERTICAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



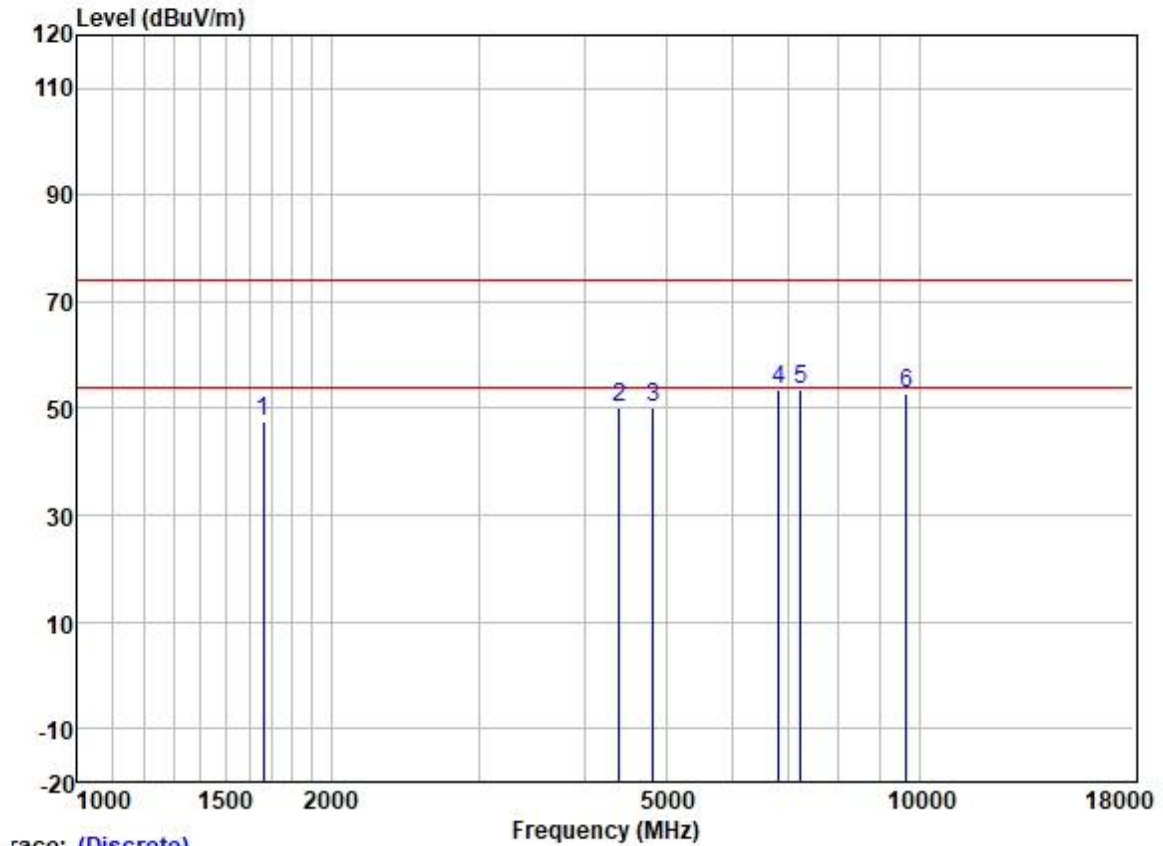
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	51.40	25.65	2.80	37.93	41.92	74.00	-32.08	HORIZONTAL	Peak
2	4495.125	50.91	30.80	5.05	36.82	49.94	74.00	-24.06	HORIZONTAL	Peak
3	4824.000	50.38	31.45	5.42	36.83	50.42	74.00	-23.58	HORIZONTAL	Peak
4	6874.906	49.68	34.82	5.82	37.16	53.16	74.00	-20.84	HORIZONTAL	Peak
5	7236.000	48.56	35.70	6.03	37.39	52.90	74.00	-21.10	HORIZONTAL	Peak
6	9648.000	45.34	38.40	7.06	37.42	53.38	74.00	-20.62	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



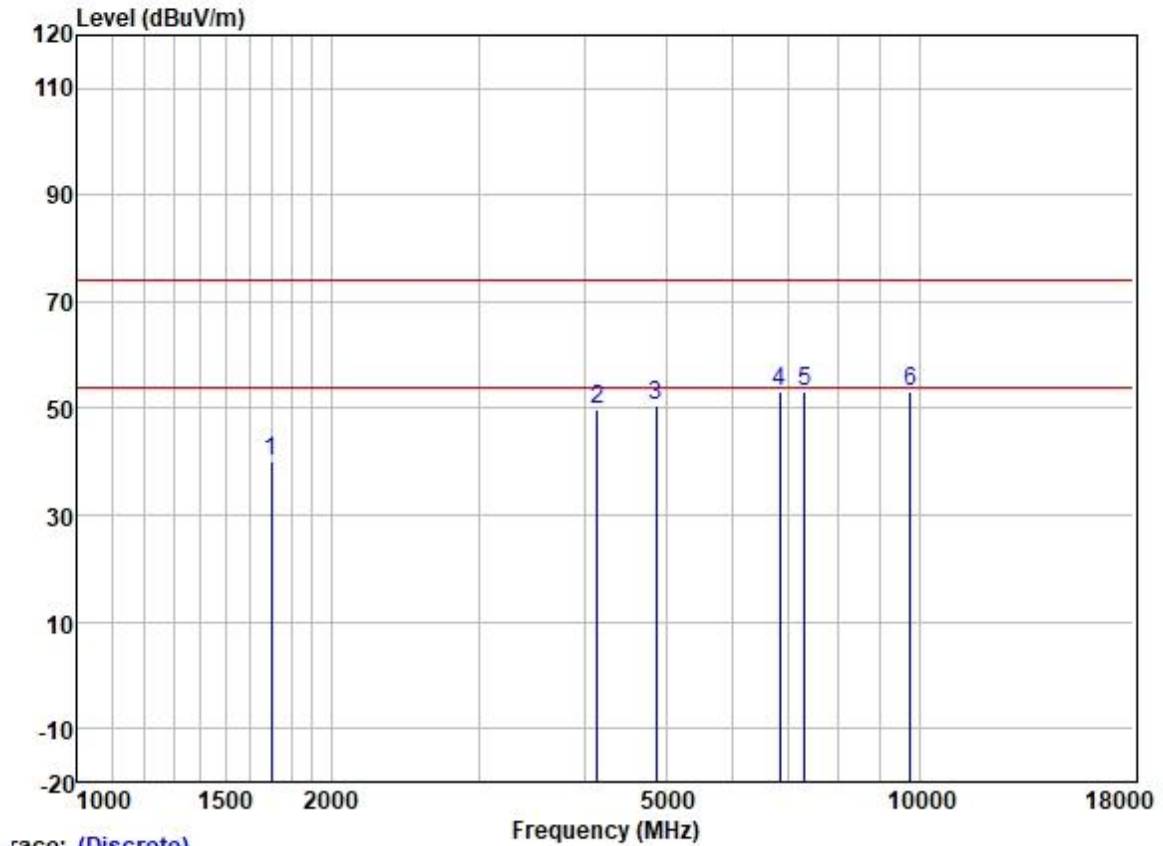
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	56.98	25.65	2.80	37.91	47.52	74.00	-26.48	VERTICAL	Peak
2	4405.090	51.62	30.68	4.70	36.81	50.19	74.00	-23.81	VERTICAL	Peak
3	4824.000	50.02	31.45	5.42	36.83	50.06	74.00	-23.94	VERTICAL	Peak
4	6815.551	50.24	34.70	5.82	37.13	53.63	74.00	-20.37	VERTICAL	Peak
5	7236.000	49.23	35.70	6.03	37.39	53.57	74.00	-20.43	VERTICAL	Peak
6	9648.000	44.89	38.40	7.06	37.42	52.93	74.00	-21.07	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



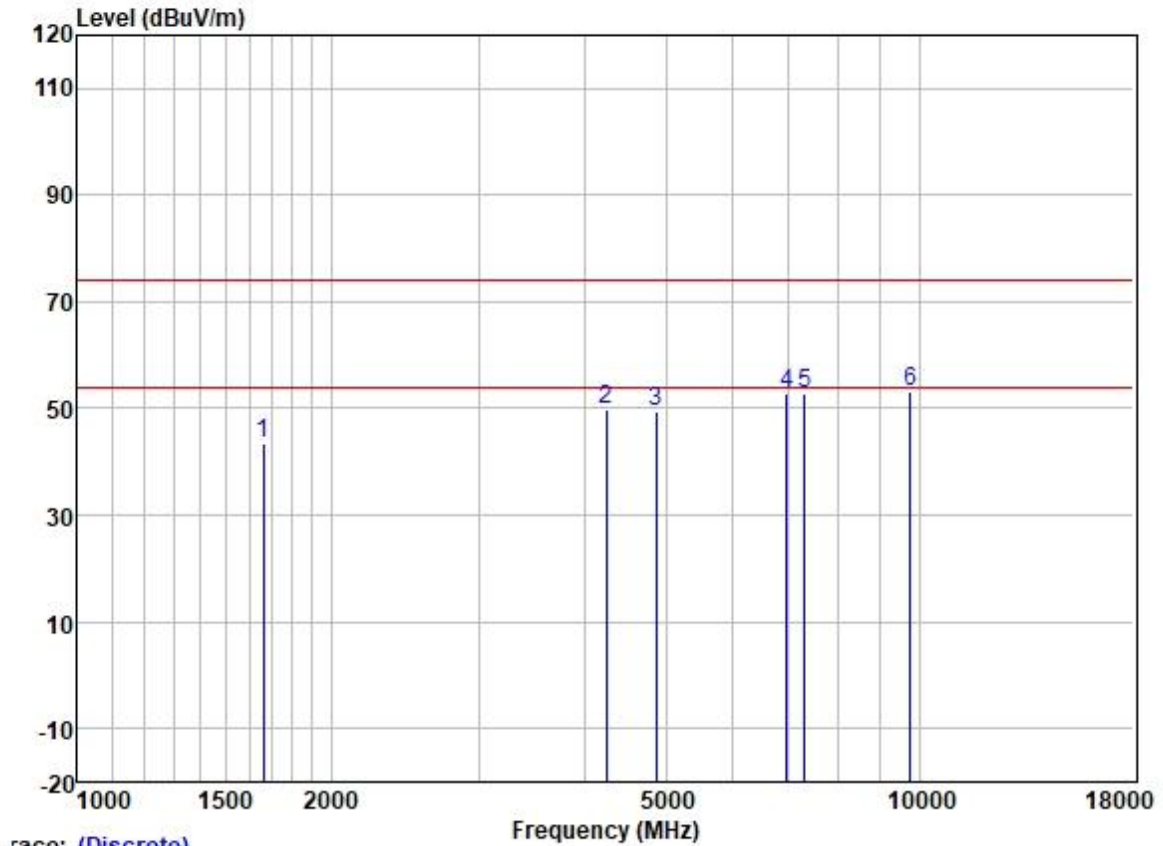
Trace: (Discrete)

	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	1697.129	49.63	25.71	2.80	37.89	40.25	74.00	-33.75	HORIZONTAL	Peak
2	4145.664	51.99	30.03	4.60	36.80	49.82	74.00	-24.18	HORIZONTAL	Peak
3	4874.000	50.47	31.54	5.50	36.84	50.67	74.00	-23.33	HORIZONTAL	Peak
4	6835.278	49.63	34.74	5.82	37.13	53.06	74.00	-20.94	HORIZONTAL	Peak
5	7311.000	48.49	35.93	6.11	37.42	53.11	74.00	-20.89	HORIZONTAL	Peak
6	9748.000	45.05	38.50	7.02	37.41	53.16	74.00	-20.84	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



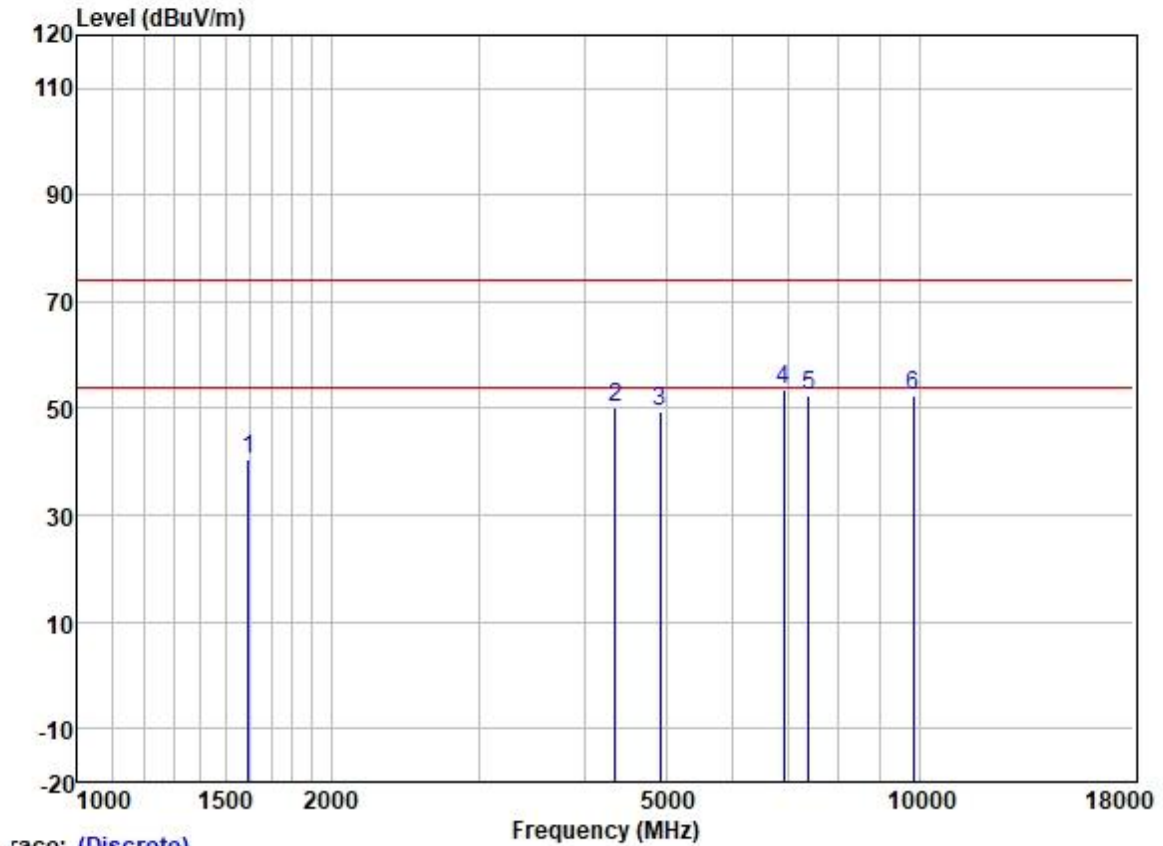
Trace: (Discrete)

	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	1663.137	52.75	25.65	2.80	37.91	43.29	74.00	-30.71	VERTICAL Peak
2	4242.641	51.86	30.30	4.62	36.81	49.97	74.00	-24.03	VERTICAL Peak
3	4874.000	49.30	31.54	5.50	36.84	49.50	74.00	-24.50	VERTICAL Peak
4	6954.852	49.15	34.95	5.81	37.21	52.70	74.00	-21.30	VERTICAL Peak
5	7311.000	48.35	35.93	6.11	37.42	52.97	74.00	-21.03	VERTICAL Peak
6	9748.000	44.98	38.50	7.02	37.41	53.09	74.00	-20.91	VERTICAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



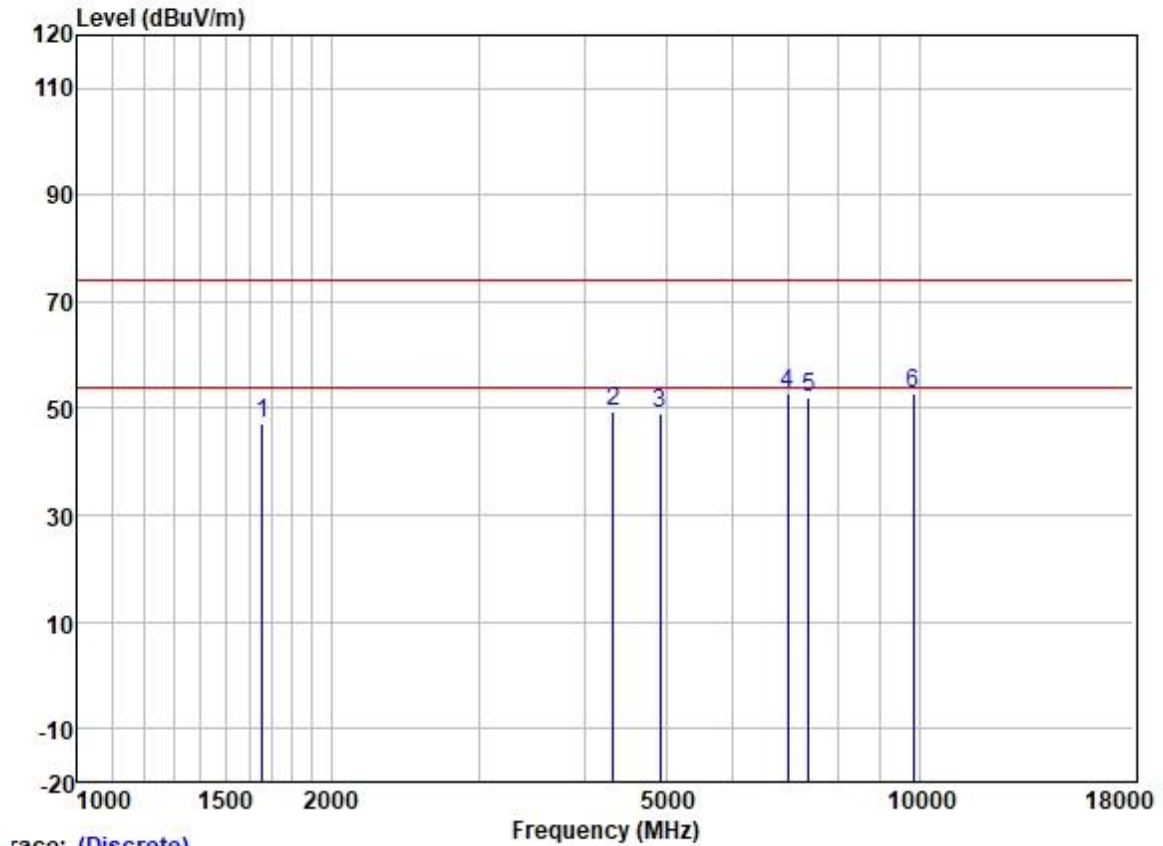
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1597.181	50.08	25.58	2.80	37.98	40.48	74.00	-33.52	HORIZONTAL Peak
2	4354.454	51.62	30.59	4.68	36.81	50.08	74.00	-23.92	HORIZONTAL Peak
3	4924.000	49.01	31.62	5.60	36.84	49.39	74.00	-24.61	HORIZONTAL Peak
4	6894.806	49.99	34.85	5.81	37.18	53.47	74.00	-20.53	HORIZONTAL Peak
5	7386.000	47.64	36.17	6.19	37.45	52.55	74.00	-21.45	HORIZONTAL Peak
6	9848.000	44.27	38.58	6.99	37.41	52.43	74.00	-21.57	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1658.337	56.51	25.65	2.80	37.93	47.03	74.00 -26.97	VERTICAL	Peak
2	4329.354	51.13	30.54	4.67	36.81	49.53	74.00 -24.47	VERTICAL	Peak
3	4924.000	48.72	31.62	5.60	36.84	49.10	74.00 -24.90	VERTICAL	Peak
4	6974.982	49.14	34.97	5.81	37.23	52.69	74.00 -21.31	VERTICAL	Peak
5	7386.000	47.17	36.17	6.19	37.45	52.08	74.00 -21.92	VERTICAL	Peak
6	9848.000	44.69	38.58	6.99	37.41	52.85	74.00 -21.15	VERTICAL	Peak



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7 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR2112021566AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2112021566AT.



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9 Appendix

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.95	<=30	Pass
		2437	17.94	<=30	Pass
		2462	18.74	<=30	Pass
802.11g	SISO	2412	16.21	<=30	Pass
		2437	16.07	<=30	Pass
		2462	16.31	<=30	Pass
802.11n (HT20)	SISO	2412	16.25	<=30	Pass
		2437	15.90	<=30	Pass
		2462	16.22	<=30	Pass

- End of the Report -



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