

TEST REPORT

Application No.: GZCR2504000515HS
Applicant: Lucidtron Limited
Address of Applicant: 1217 New Tech Plaza 34 Tai Yau Street San Po Kong, KLN
Manufacturer: Nuve Controls LLC
Address of Manufacturer: 23221 Peralta Drive, Suite C, Laguna Hills, California 92653
Factory: Automated Technology (Phil.) Inc.
Address of Factory: Plant 2 - Lot 1 Blk. 3 Phase 5 Ampere St. LISP1 SEPZ, Cabuyao, Laguna, PH 4025
Product Name: Nuve Smart Thermostat
Model No.: Samo
Trade Mark: 
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-04-10
Date of Test: 2025-04-24 to 2025-05-09
Date of Issue: 2025-05-16

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

Ricky Liu

Ricky Liu
Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch (CMAA) EMC Laboratory

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230500053002	2023-09-01	Original
02	GZCR230500053005	2024-04-16	Amendment report: Updated address of applicant.
03	GZCR230500053008	2025-05-16	Amendment report: Updated power board; updated data.

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
		Vico Cui	
		Vico Cui/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	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 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.



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Remark for the report GZCR230500053005:

This report GZCR230500053005 based on the GZCR230500053002 original report, just updated address of applicant.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by updating address of applicant without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

Therefore original data in report GZCR230500053002 was kept in this report **GZCR230500053005**.

Remark for report GZCR230500053008:

This report GZCR230500053008 is based on original report GZCR230500053005, with the following changes:

1. Add a ceramic antenna on board for ISM sub 915MHz transmission.
2. Terminals quantity, now they are 14 instead of 12.
3. Relay circuits, old relays are SSR in one package, now they are discrete SSRs with external transistors, One extra high power relay for RH-RC circuit.
4. Overall Layout changes of the bottom (Relay) board.
5. Inductor value change for the main DCDC regulator.
6. Added external reset supervisor for the MCU.

Considering to the difference above, only Antenna Requirement, Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and Radiated Spurious Emissions Above 1GHz were performed on model **Samo** and recorded the new test results in this report GZCR230500053008.

Other tests please refer to original report **GZCR230500053005** for details.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 24V, 60 Hz

Test voltage: AC 120 V, 60 Hz powered by AC/DC Adapter refer to section 4.2

Cable(s): 0.4m Cable, 2 wires, unshielded.

Antenna Number: 2 (1 for 2.4 GHz Wi-Fi and the other for 915-920 MHz)

For 2.4 GHz Wi-Fi

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: PCB Antenna

Antenna Gain: 0.6 dBi according to antenna specification

For 915-920 MHz

Operation Frequency: 915 MHz, 917.5 MHz, 920MHz

Number of Channels: 3

Antenna Type: Ceramic Antenna

Antenna Gain: -0.1 dBi according to antenna specification

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	Lenovo Xiaoxinchao 5000	PF0TLJX7
AC/DC Adapter	MEAN WELL	YW-2440 (Input: AC 100-240V, 50/60Hz; Output: AC 24V, 4A)	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.22dB
Radiated Emissions which fall in the restricted bands	±5.14dB (3m); ±4.90dB (10m); ±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB (150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Spurious Emissions Above 1GHz	±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).</p> <p>Emission decision rule:</p> <ul style="list-style-type: none"> – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report. 	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
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No tests were sub-contracted.



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4.5 Test Facility

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

● 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.

● 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
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2024-09-02	2025-09-01
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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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:

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

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 0.6 dBi for Wi-Fi antenna and of the antenna 2 is -0.1 dBi for 915 MHz to 920 MHz.

Antenna location: Refer to internal photo.

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: 21.9 °C

Humidity: 57.8 % RH

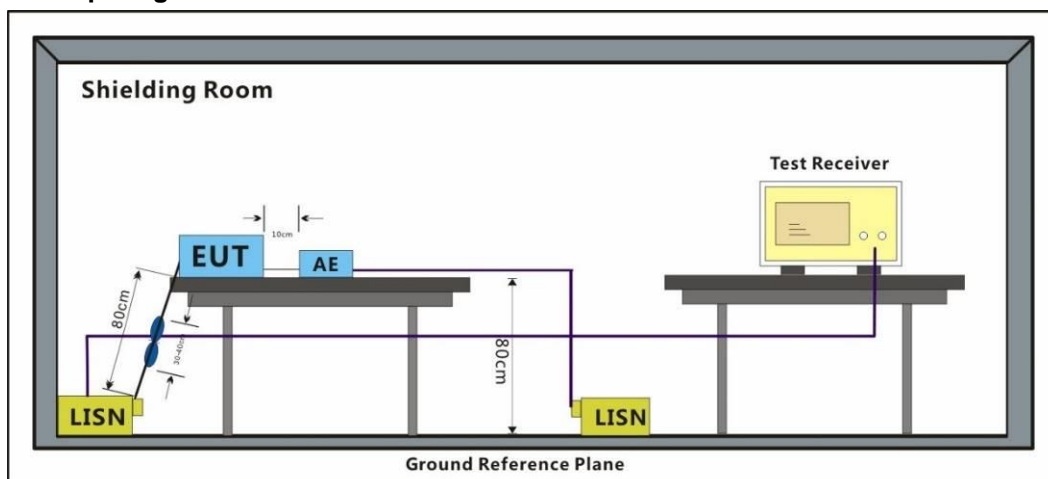
Atmospheric Pressure: 1020 mbar

7.1.2 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with modulation mode.



7.1.3 Test Setup Diagram

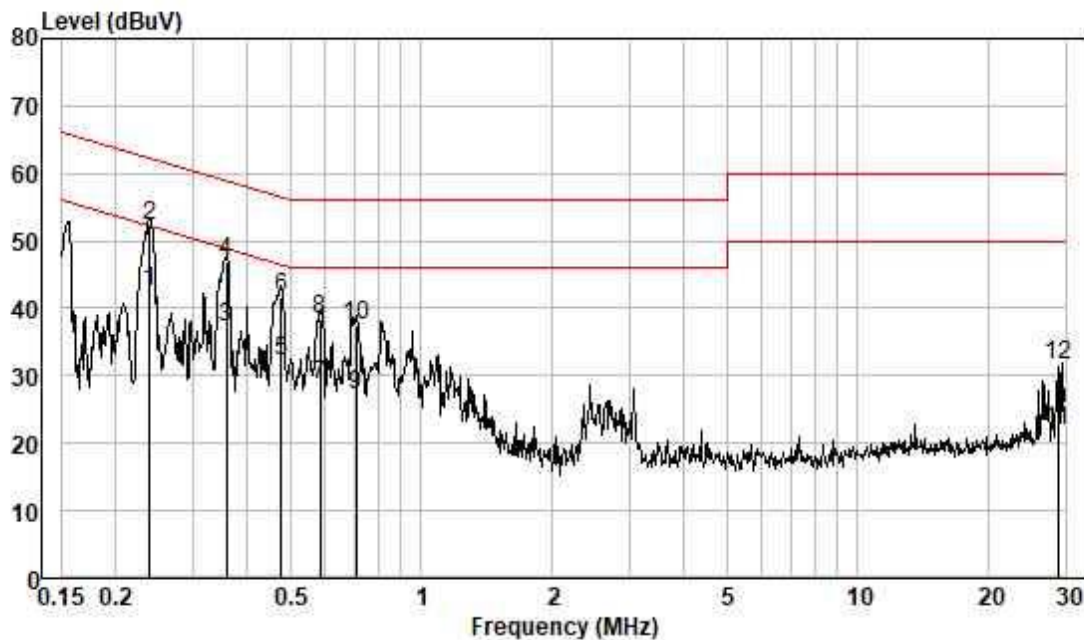


7.1.4 Measurement Procedure and Data

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

Test Mode: 00; Line: Live line



Pol : LINE

Mode :

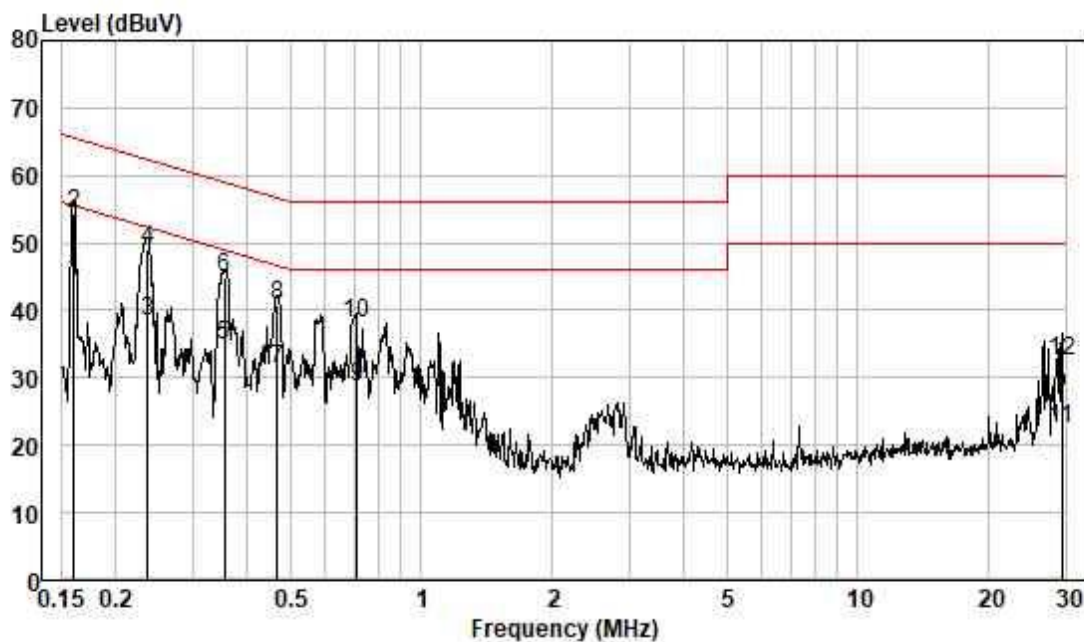
Model :

Power : AC 24V

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.239	32.97	0.04	9.59	42.60	52.13	-9.53	Average
2	0.239	42.71	0.04	9.59	52.34	62.13	-9.79	QP
3	0.358	27.49	0.05	9.58	37.12	48.78	-11.66	Average
4	0.358	37.37	0.05	9.58	47.00	58.78	-11.78	QP
5	0.479	22.49	0.05	9.58	32.12	46.36	-14.24	Average
6	0.479	32.10	0.05	9.58	41.73	56.36	-14.63	QP
7	0.585	19.18	0.05	9.55	28.78	46.00	-17.22	Average
8	0.585	28.76	0.05	9.55	38.36	56.00	-17.64	QP
9	0.708	17.54	0.06	9.60	27.20	46.00	-18.80	Average
10	0.708	27.69	0.06	9.60	37.35	56.00	-18.65	QP
11	28.755	11.52	0.45	9.86	21.83	50.00	-28.17	Average
12	28.755	21.22	0.45	9.86	31.53	60.00	-28.47	QP



Test Mode: 00; Line: Neutral Line

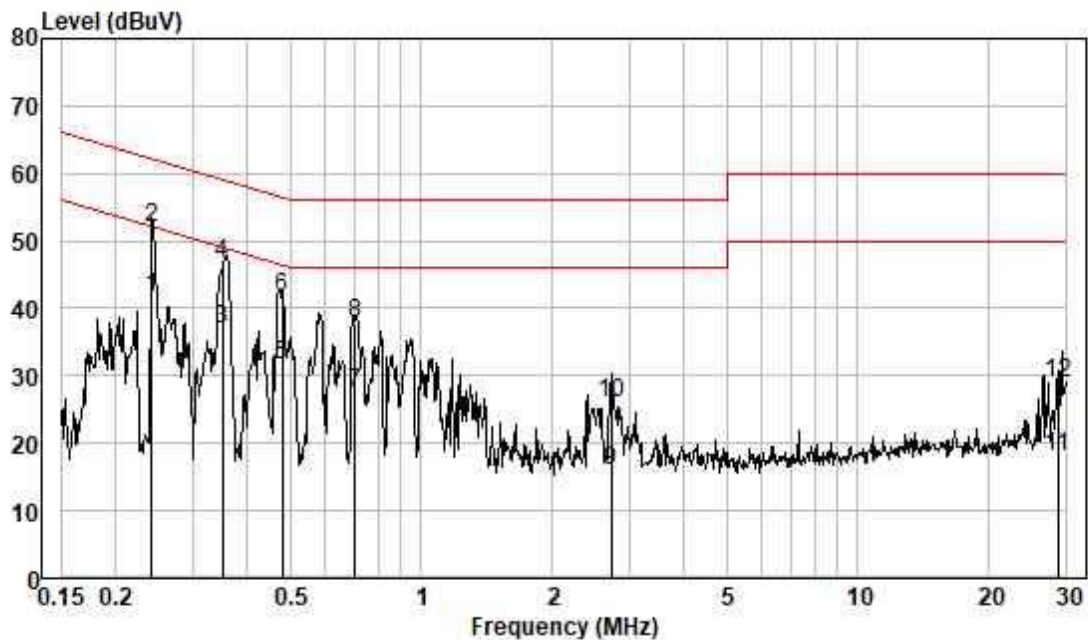


Pol : NEUTRAL
Mode :
Model :
Power : AC 24V

	Freque	Read	Cable	LISN	Measured	Limit	Over	
	nc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.160	34.76	0.04	9.53	44.33	55.47	-11.14	Average
2	0.160	44.89	0.04	9.53	54.46	65.47	-11.01	QP
3	0.237	28.92	0.04	9.53	38.49	52.22	-13.73	Average
4	0.237	39.56	0.04	9.53	49.13	62.22	-13.09	QP
5	0.354	25.33	0.05	9.51	34.89	48.87	-13.98	Average
6	0.354	35.35	0.05	9.51	44.91	58.87	-13.96	QP
7	0.469	21.55	0.05	9.57	31.17	46.54	-15.37	Average
8	0.469	31.15	0.05	9.57	40.77	56.54	-15.77	QP
9	0.712	19.09	0.06	9.54	28.69	46.00	-17.31	Average
10	0.712	28.45	0.06	9.54	38.05	56.00	-17.95	QP
11	29.371	11.79	0.46	10.05	22.30	50.00	-27.70	Average
12	29.371	22.00	0.46	10.05	32.51	60.00	-27.49	QP



Test Mode: 01; Line: Live line

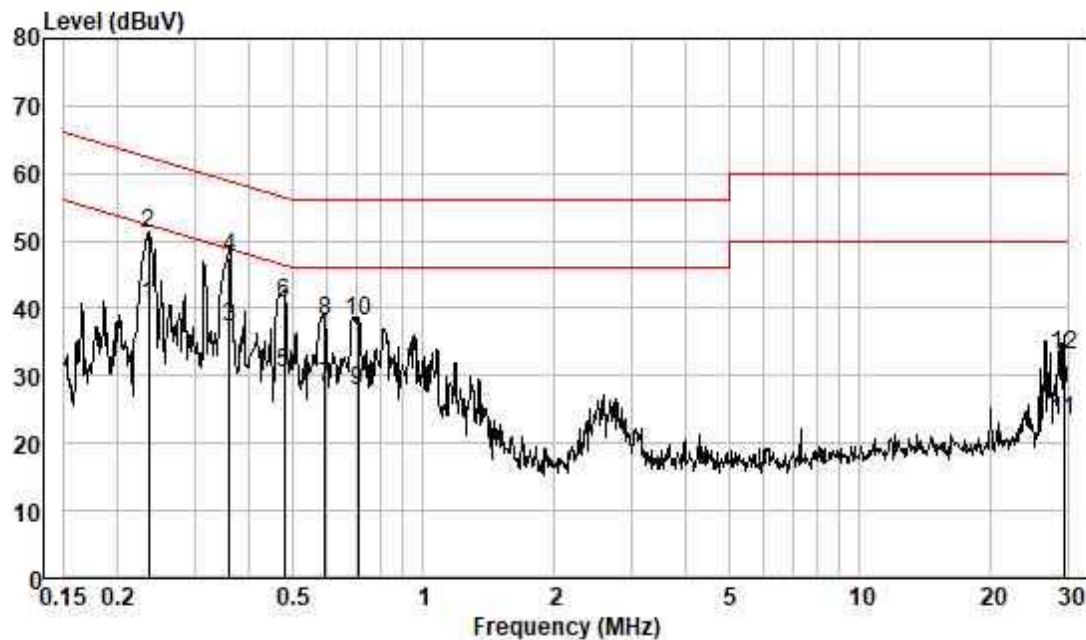


Pol : LINE
Mode :
Model :
Power : AC 24V

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.242	32.04	0.04	9.59	41.67	52.04	-10.37	Average
2	0.242	42.35	0.04	9.59	51.98	62.04	-10.06	QP
3	0.350	27.32	0.05	9.59	36.96	48.96	-12.00	Average
4	0.350	36.89	0.05	9.59	46.53	58.96	-12.43	QP
5	0.481	22.07	0.05	9.58	31.70	46.32	-14.62	Average
6	0.481	32.10	0.05	9.58	41.73	56.32	-14.59	QP
7	0.705	17.91	0.06	9.60	27.57	46.00	-18.43	Average
8	0.705	28.19	0.06	9.60	37.85	56.00	-18.15	QP
9	2.721	6.10	0.15	9.54	15.79	46.00	-30.21	Average
10	2.721	16.25	0.15	9.54	25.94	56.00	-30.06	QP
11	28.755	7.72	0.45	9.86	18.03	50.00	-31.97	Average
12	28.755	18.49	0.45	9.86	28.80	60.00	-31.20	QP



Test Mode: 01; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power : AC 24V

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.235	30.88	0.04	9.54	40.46	52.26	-11.80	Average
2	0.235	41.46	0.04	9.54	51.04	62.26	-11.22	QP
3	0.360	27.71	0.05	9.52	37.28	48.74	-11.46	Average
4	0.360	37.89	0.05	9.52	47.46	58.74	-11.28	QP
5	0.481	20.80	0.05	9.57	30.42	46.32	-15.90	Average
6	0.481	31.24	0.05	9.57	40.86	56.32	-15.46	QP
7	0.595	18.70	0.06	9.57	28.33	46.00	-17.67	Average
8	0.595	28.39	0.06	9.57	38.02	56.00	-17.98	QP
9	0.708	18.20	0.06	9.54	27.80	46.00	-18.20	Average
10	0.708	28.37	0.06	9.54	37.97	56.00	-18.03	QP
11	29.371	12.95	0.46	10.05	23.46	50.00	-26.54	Average
12	29.371	22.52	0.46	10.05	33.03	60.00	-26.97	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 11.12

Limit:

Test Distance: 3 m

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: 21.4 °C

Humidity: 55.8 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

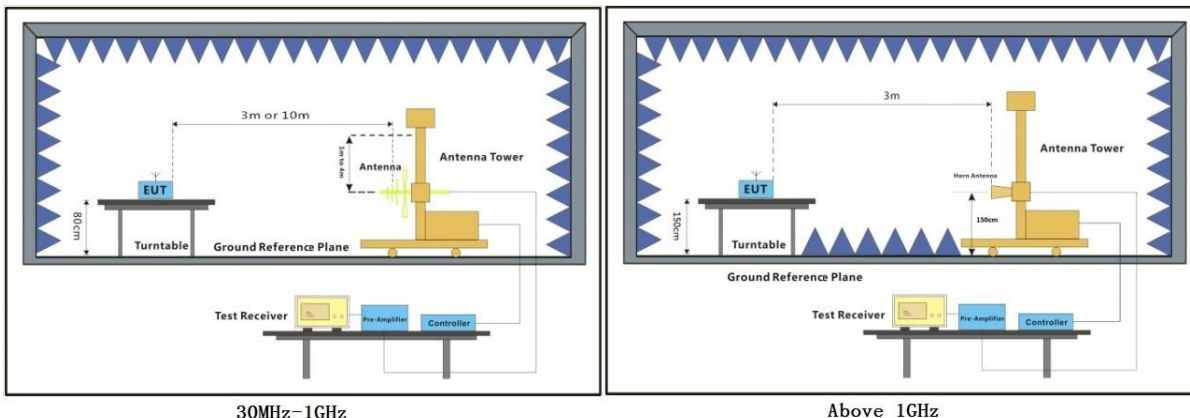
Pre-scan / Mode
Final test Code Description

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

TX mode_Keep the EUT in continuously transmitting mode with modulation mode.



7.2.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz

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

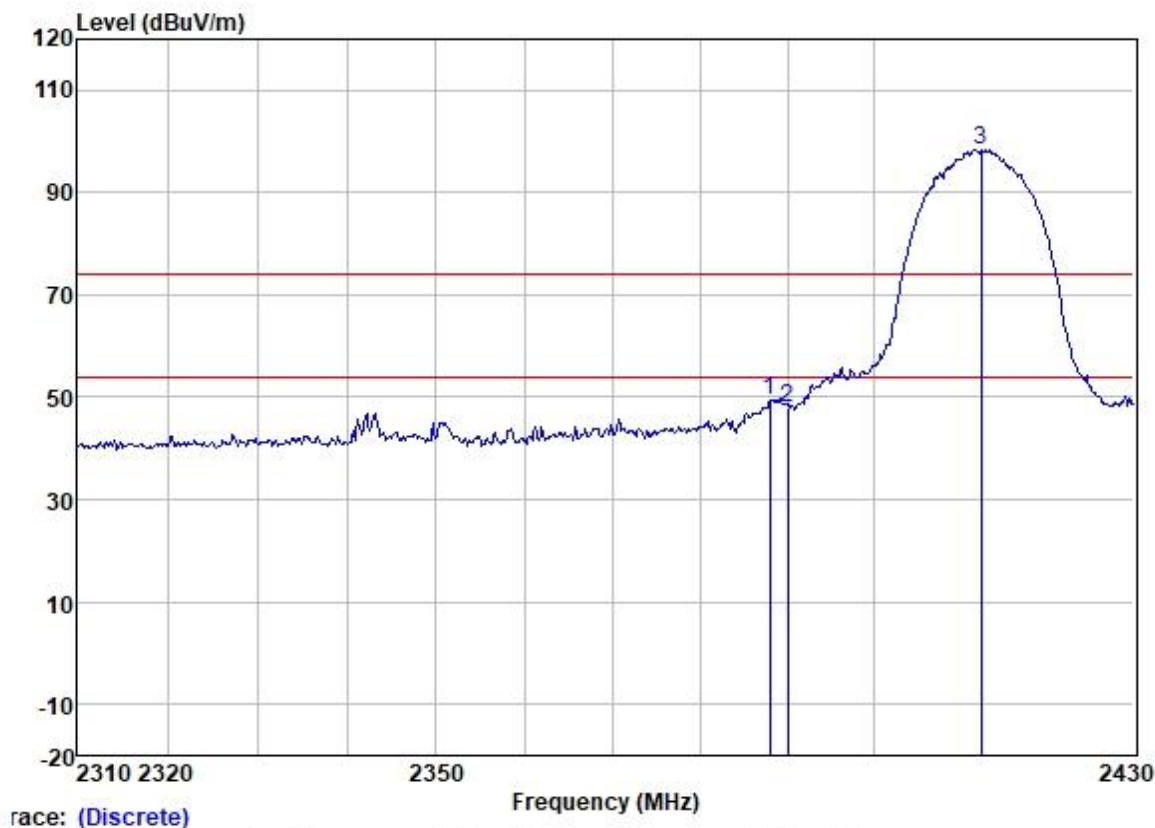
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



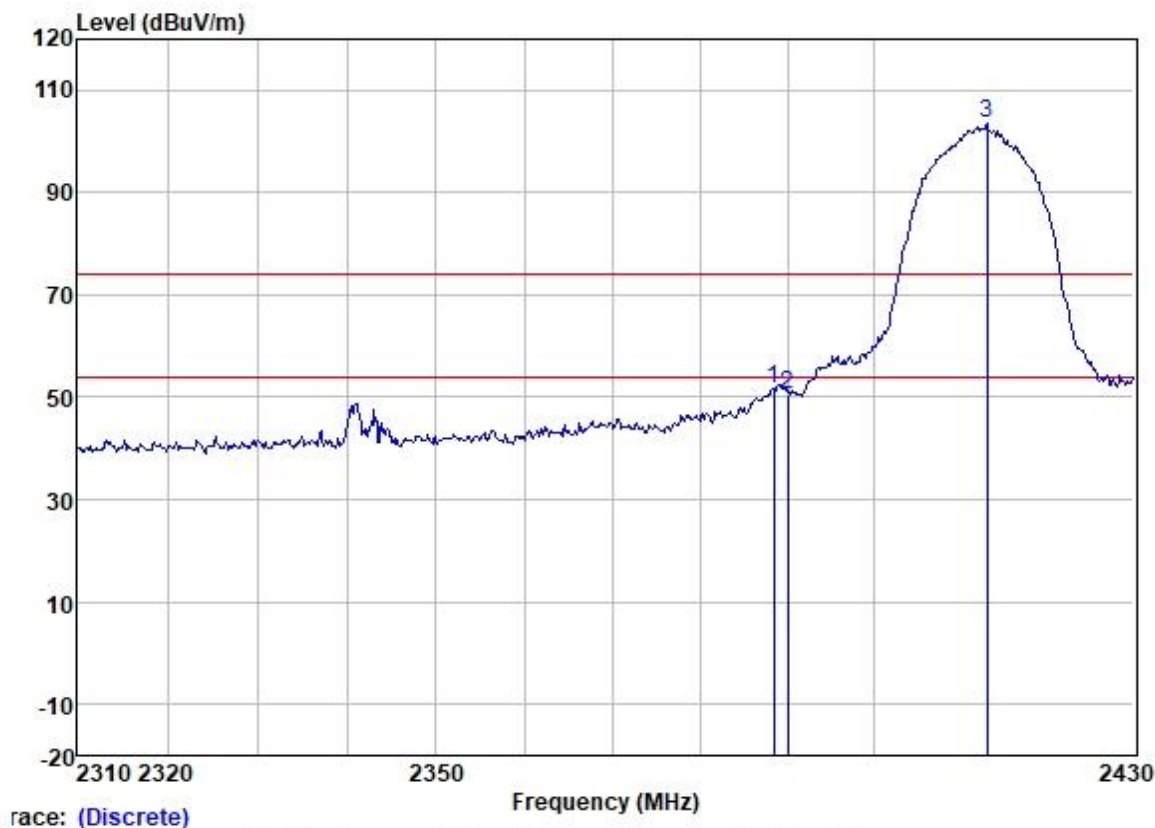
Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2387.912	55.50	27.68	4.22	37.77	49.63	74.00	-24.37	VERTICAL	Peak
2	2390.000	53.79	27.68	4.22	37.76	47.93	74.00	-26.07	VERTICAL	Peak
3 *	2412.221	104.36	27.74	4.02	37.76	98.36	74.00	24.36	VERTICAL	Peak

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

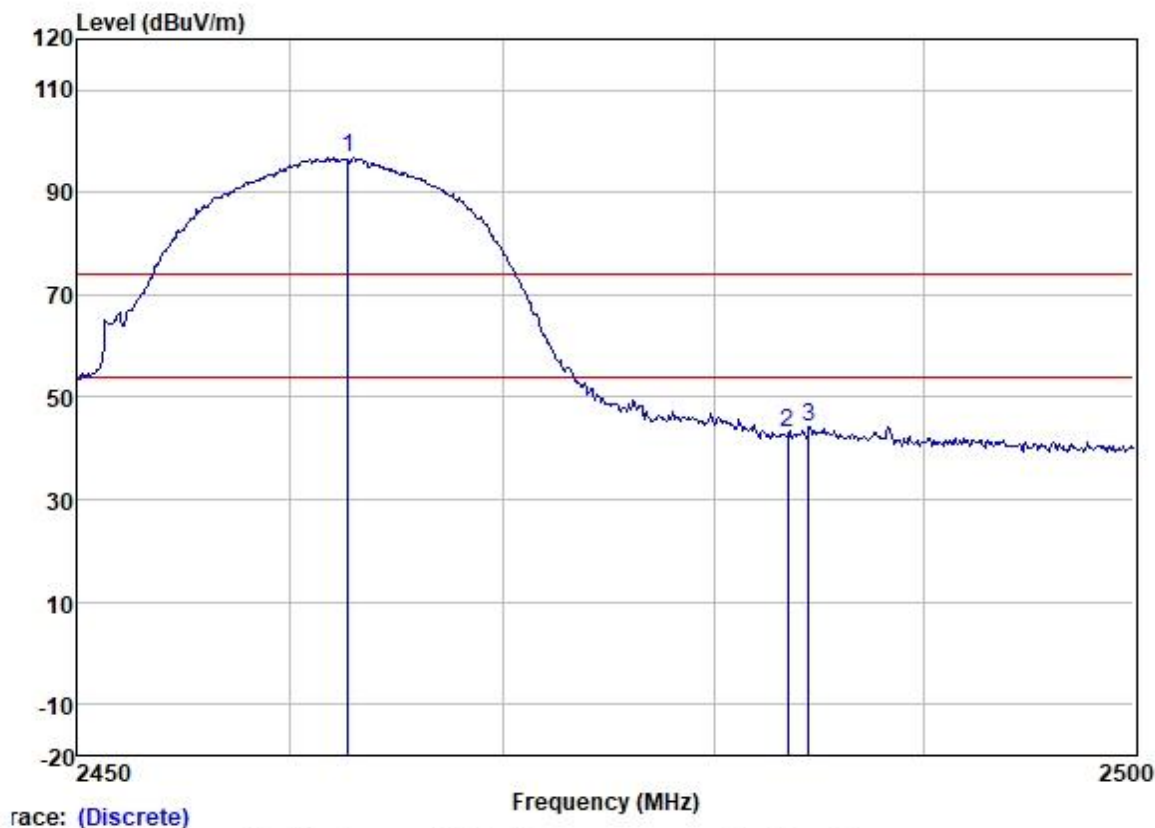


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2388.395	57.72	27.68	4.22	37.77	51.85	74.00	-22.15	HORIZONTAL Peak
2	2390.000	56.27	27.68	4.22	37.76	50.41	74.00	-23.59	HORIZONTAL Peak
3 *	2412.954	109.54	27.74	4.02	37.76	103.54	74.00	29.54	HORIZONTAL Peak



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

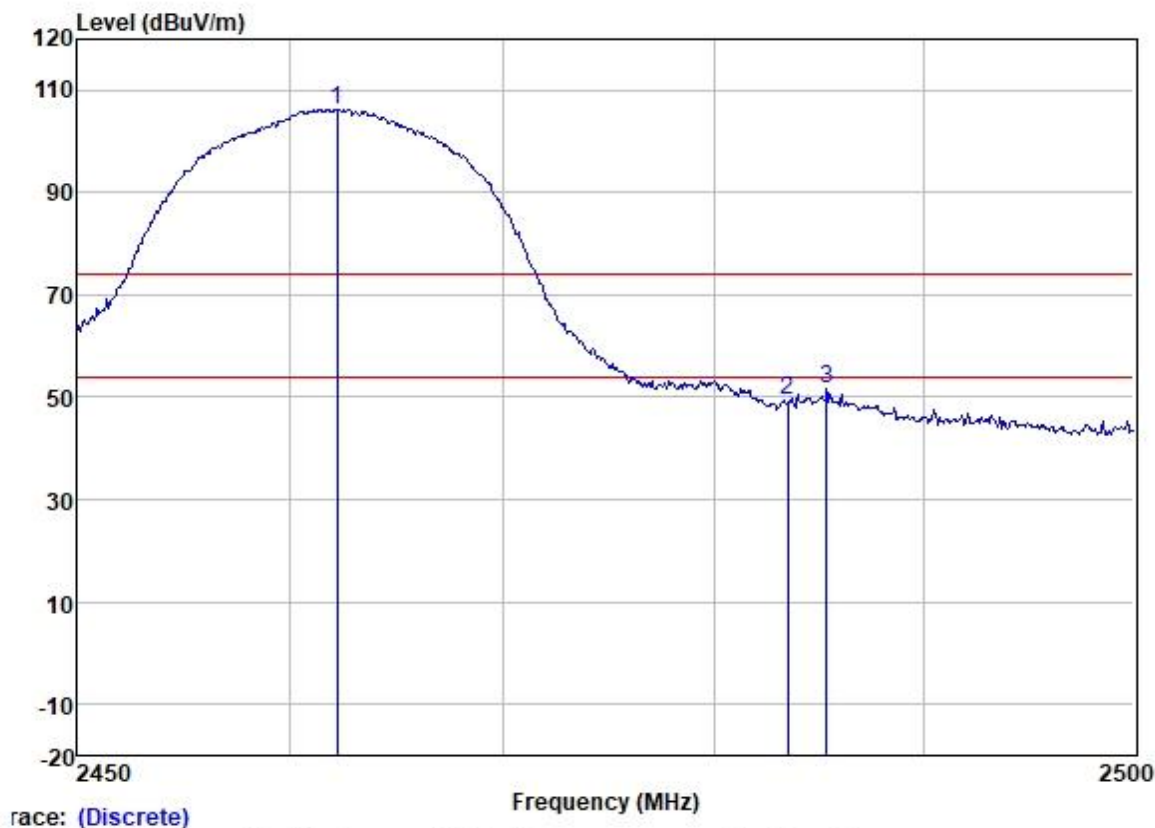


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.709	103.16	27.82	3.64	37.74	96.88	74.00	22.88	VERTICAL	Peak
2	2483.500	49.64	27.85	3.42	37.73	43.18	74.00	-30.82	VERTICAL	Peak
3	2484.492	50.79	27.85	3.42	37.73	44.33	74.00	-29.67	VERTICAL	Peak



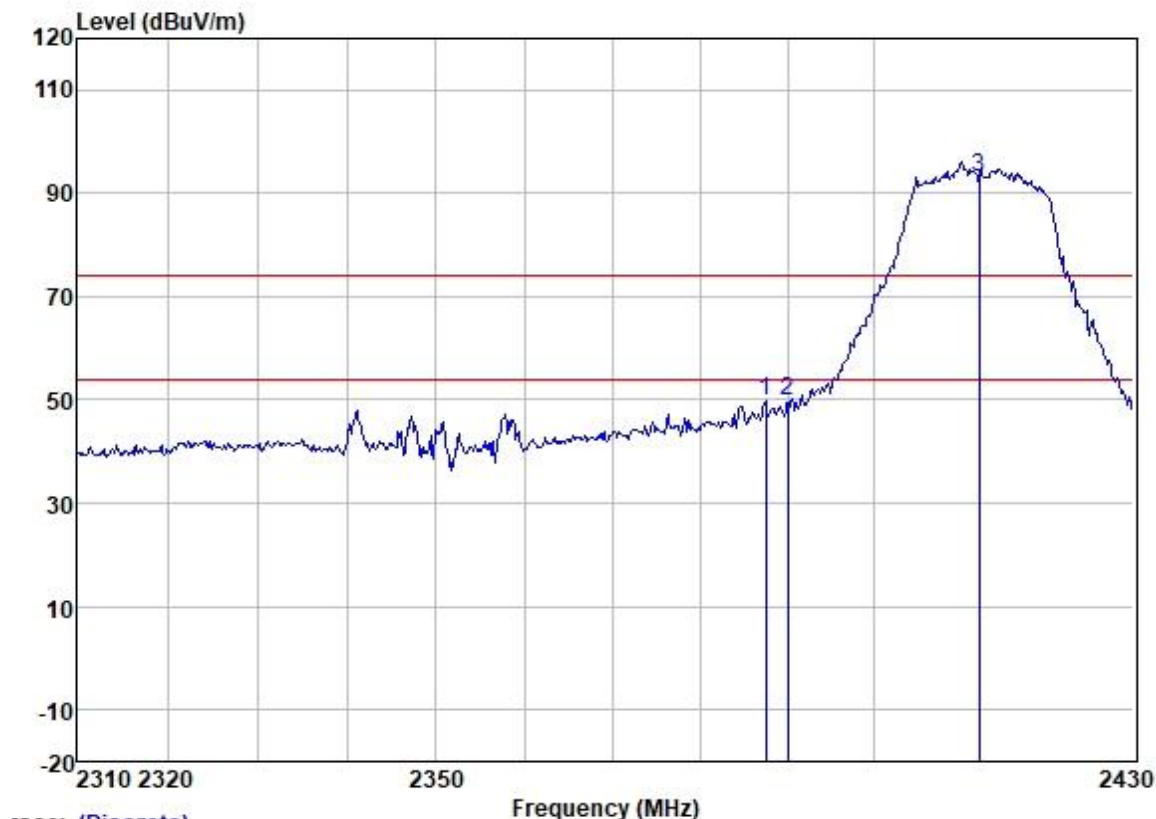
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.207	112.63	27.82	3.64	37.74	106.35	74.00	32.35 HORIZONTAL Peak
2	2483.500	56.01	27.85	3.42	37.73	49.55	74.00	-24.45 HORIZONTAL Peak
3	2485.346	58.24	27.85	3.42	37.73	51.78	74.00	-22.22 HORIZONTAL Peak

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

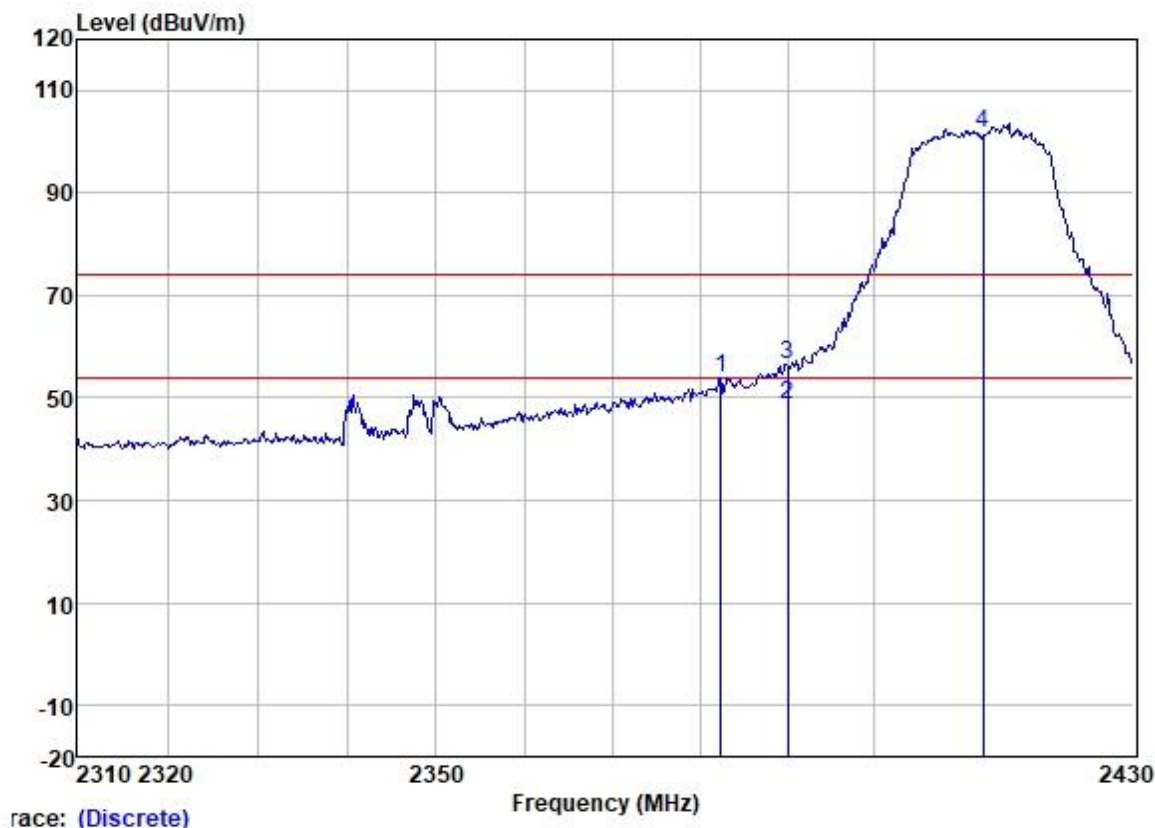


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2387.428	55.60	27.68	4.22	37.77	49.73	74.00	-24.27	VERTICAL Peak
2	2390.000	55.59	27.68	4.22	37.76	49.73	74.00	-24.27	VERTICAL Peak
3 *	2412.023	99.25	27.74	4.02	37.76	93.25	74.00	19.25	VERTICAL Peak



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

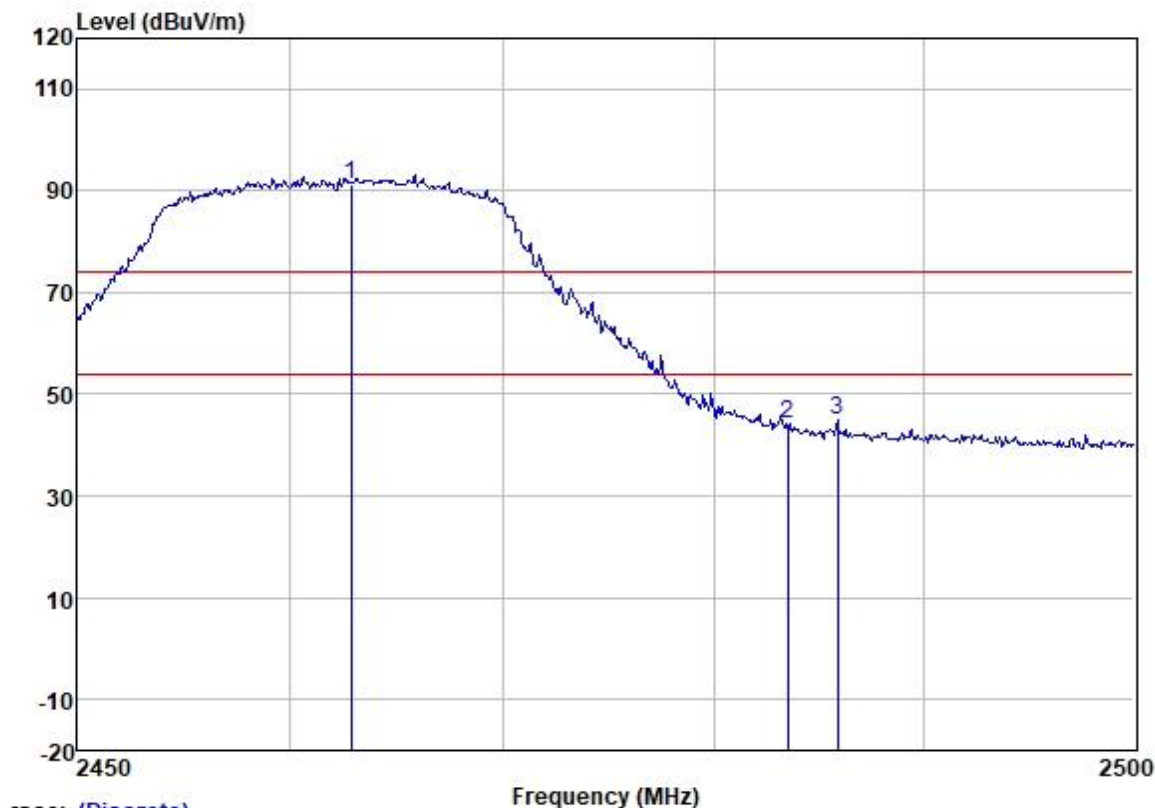


Trace: (Discrete)

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2382.355	59.83	27.67	4.27	37.77	54.00	74.00	-20.00	HORIZONTAL Peak
2	2390.000	54.60	27.68	4.22	37.76	48.74	54.00	-5.26	HORIZONTAL Average
3	2390.000	62.49	27.68	4.22	37.76	56.63	74.00	-17.37	HORIZONTAL Peak
4 *	2412.522	107.53	27.74	4.02	37.76	101.53	74.00	27.53	HORIZONTAL Peak



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

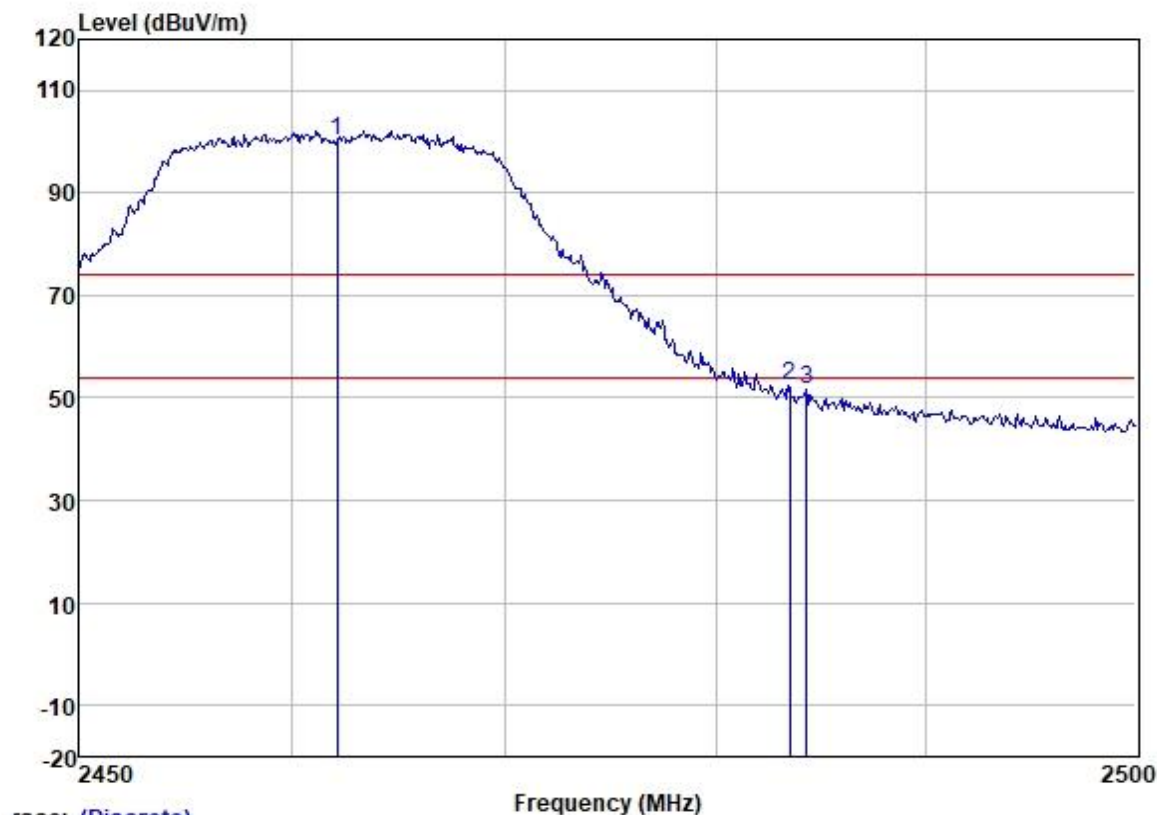


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	* 2462.840	97.47	27.82	3.64	37.74	91.19	74.00	17.19	VERTICAL	Peak
2	2483.500	50.70	27.85	3.42	37.73	44.24	74.00	-29.76	VERTICAL	Peak
3	2485.848	51.26	27.85	3.42	37.73	44.80	74.00	-29.20	VERTICAL	Peak



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

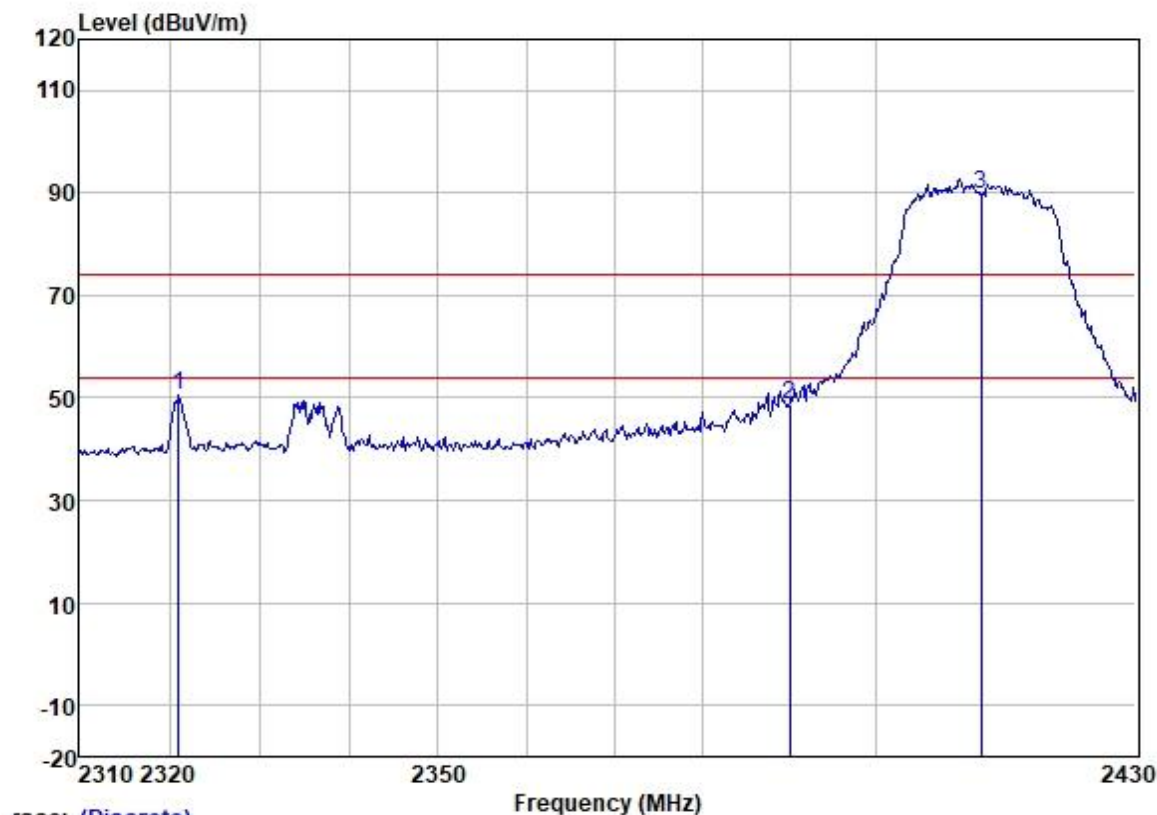


Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.112	106.46	27.82	3.64	37.74	100.18	74.00	26.18	HORIZONTAL Peak
2	2483.500	58.98	27.85	3.42	37.73	52.52	74.00	-21.48	HORIZONTAL Peak
3	2484.292	58.28	27.85	3.42	37.73	51.82	74.00	-22.18	HORIZONTAL Peak



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

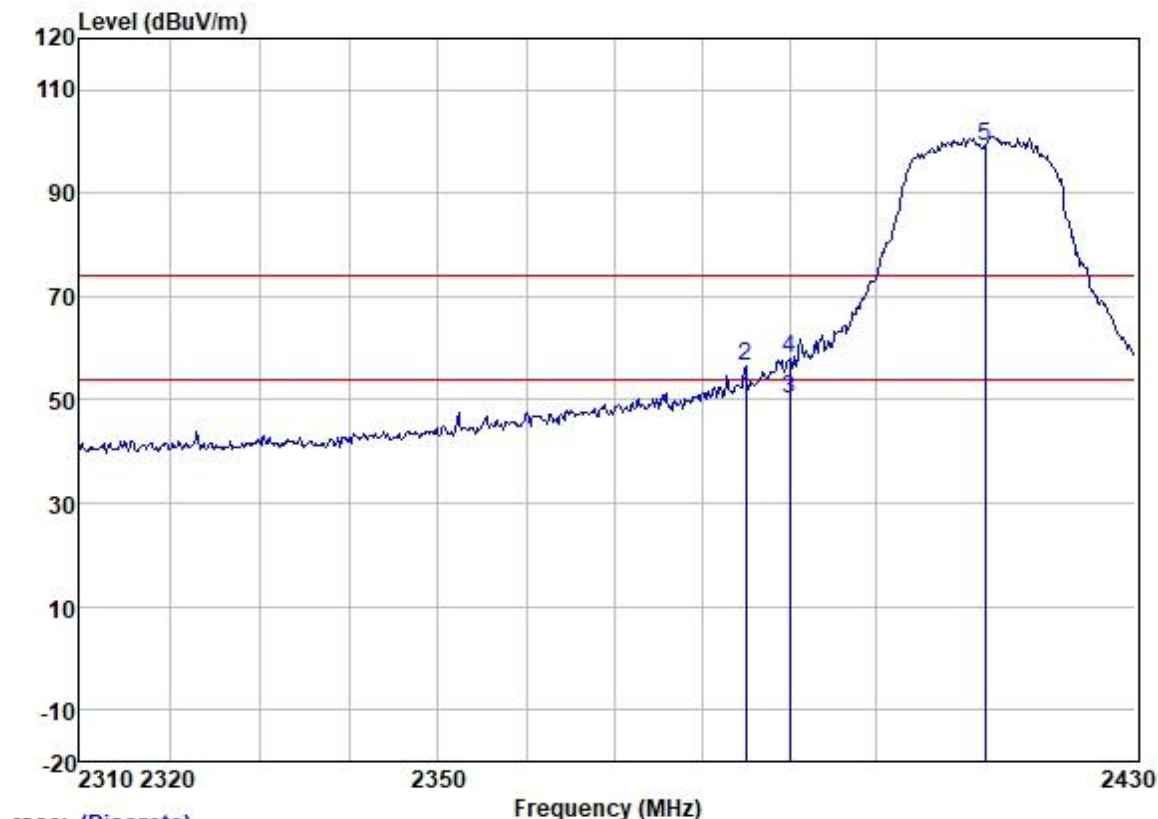


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2321.023	55.75	27.52	4.94	37.79	50.42	74.00	-23.58	VERTICAL	Peak
2	2390.000	54.71	27.68	4.22	37.76	48.85	74.00	-25.15	VERTICAL	Peak
3 *	2412.000	95.89	27.74	4.02	37.76	89.89	74.00	15.89	VERTICAL	Peak



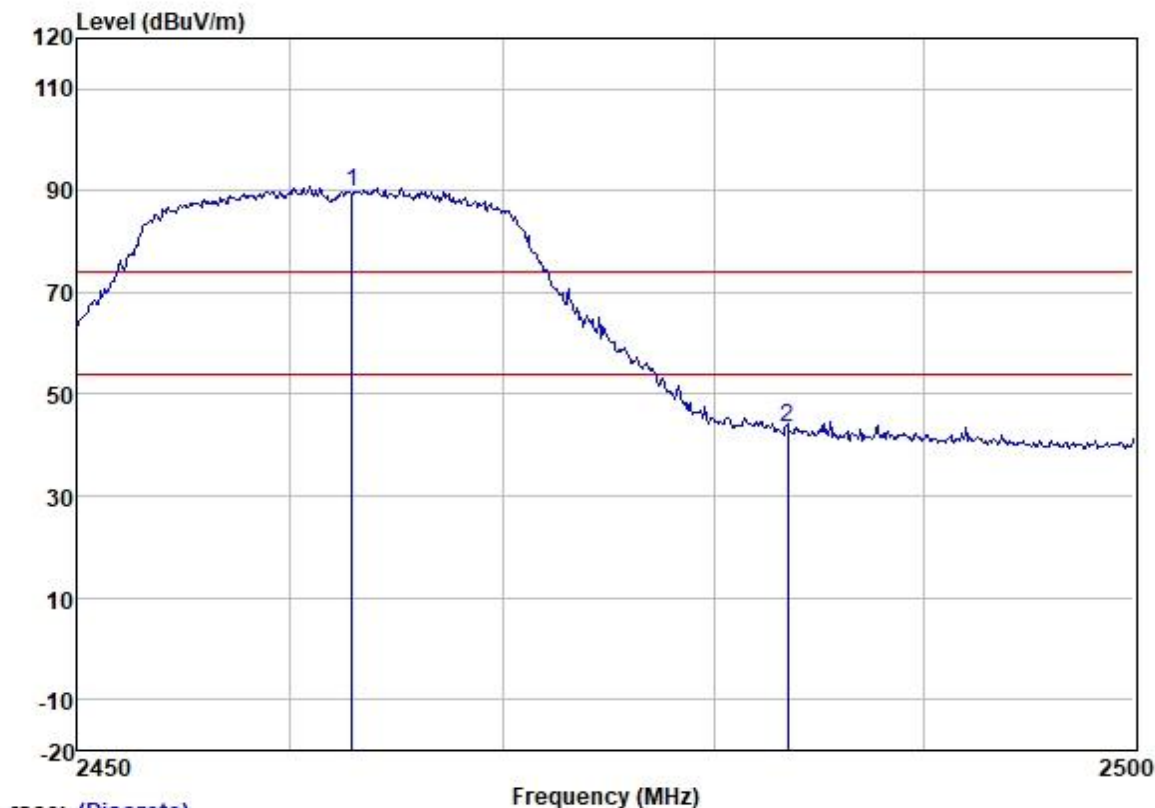
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	2385.011	56.10	27.68	4.22	37.77	50.23	54.00	-3.77	HORIZONTAL Average
2	2385.011	62.59	27.68	4.22	37.77	56.72	74.00	-17.28	HORIZONTAL Peak
3	2390.000	55.94	27.68	4.22	37.76	50.08	54.00	-3.92	HORIZONTAL Average
4	2390.000	63.77	27.68	4.22	37.76	57.91	74.00	-16.09	HORIZONTAL Peak
5 *	2412.443	105.14	27.74	4.02	37.76	99.14	74.00	25.14	HORIZONTAL Peak

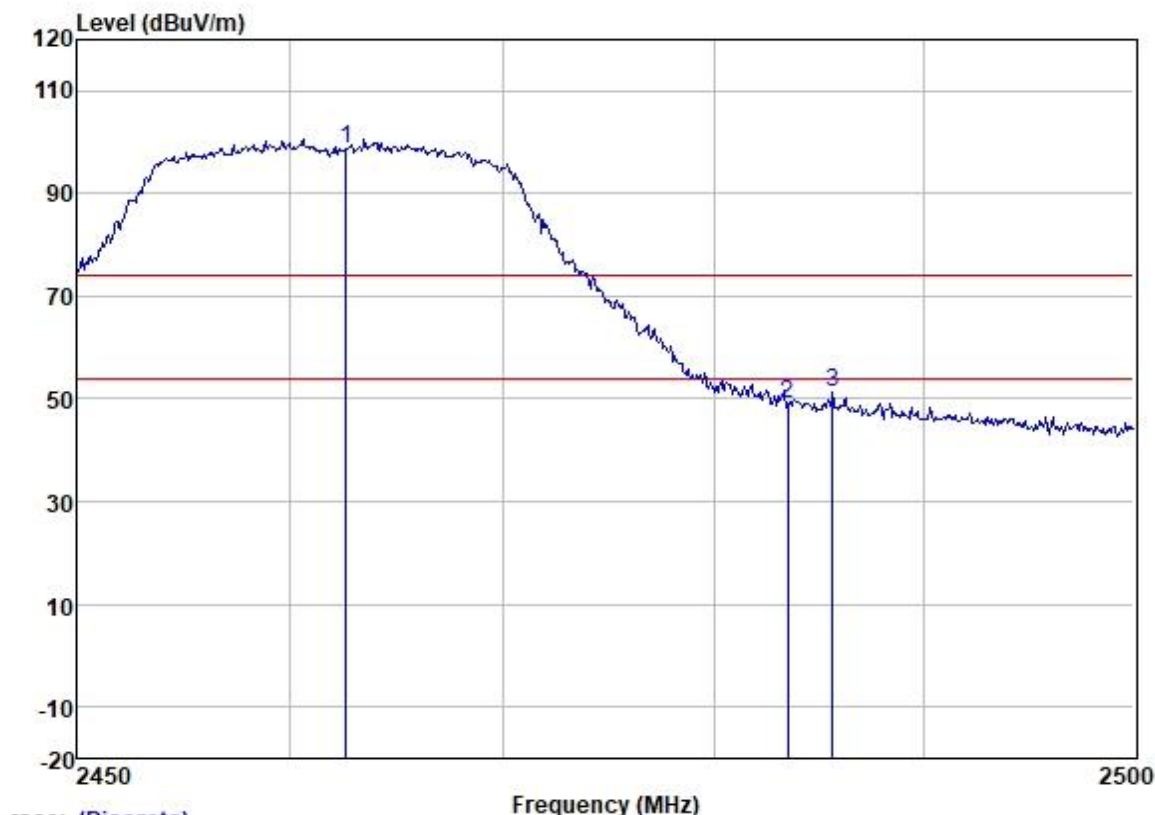
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.914	96.21	27.82	3.64	37.74	89.93	74.00	15.93	VERTICAL Peak
2	2483.500	50.00	27.85	3.42	37.73	43.54	74.00	-30.46	VERTICAL Peak

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

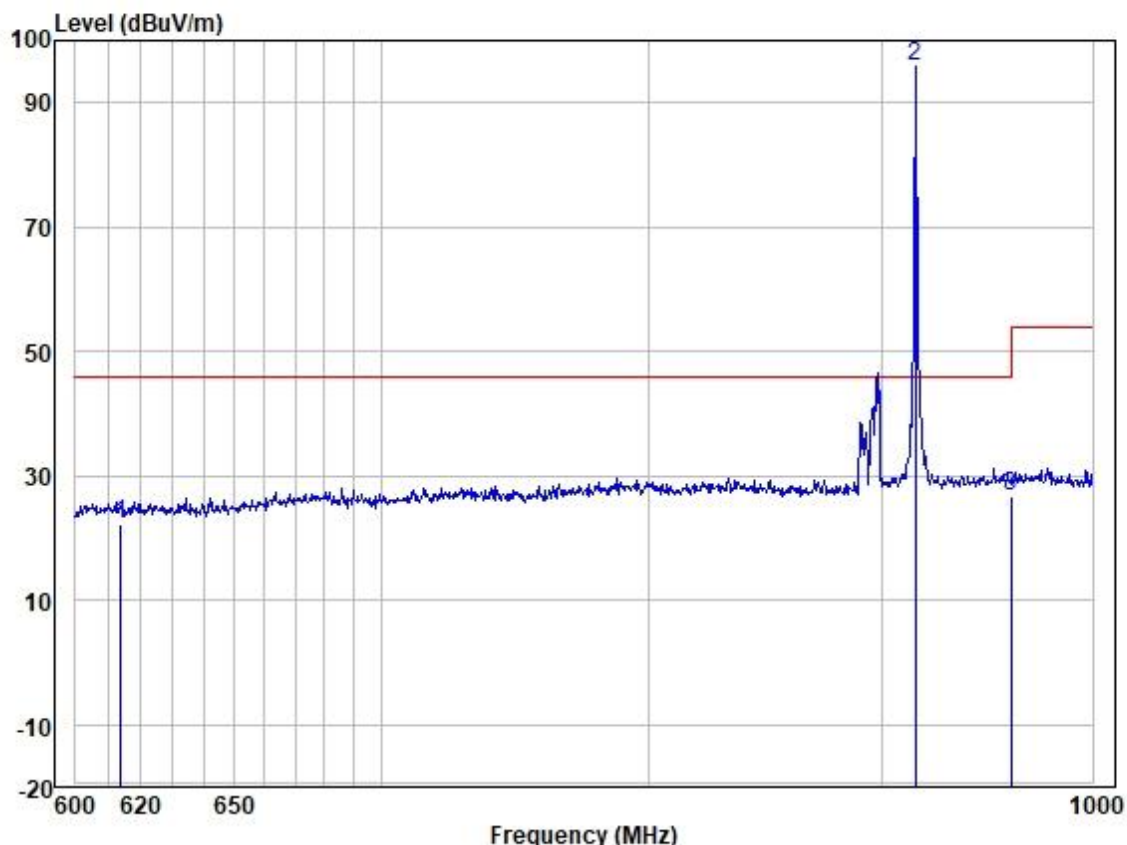


Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.615	104.91	27.82	3.64	37.74	98.63	74.00	24.63 HORIZONTAL Peak
2	2483.500	55.40	27.85	3.42	37.73	48.94	74.00	-25.06 HORIZONTAL Peak
3	2485.647	57.74	27.85	3.42	37.73	51.28	74.00	-22.72 HORIZONTAL Peak



Test Mode: 01; Polarity: Horizontal

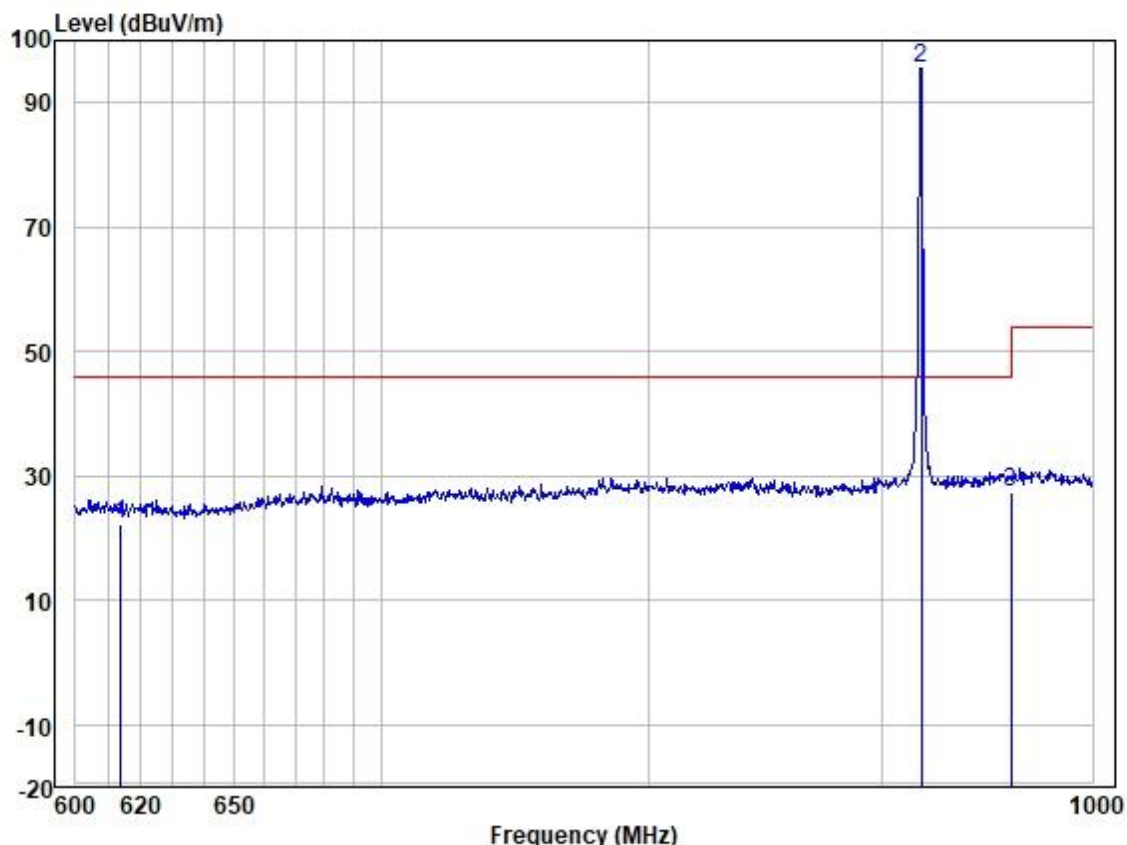


Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 915

	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	dB		
1	614.000	27.45	25.88	1.44	32.64	22.13	46.02	-23.89	HORIZONTAL	QP
2	914.952	95.69	29.40	1.77	30.94	95.92	46.02	49.90	HORIZONTAL	QP
3	960.000	25.42	30.12	1.82	30.73	26.63	46.02	-19.39	HORIZONTAL	QP



Test Mode: 01; Polarity: Horizontal

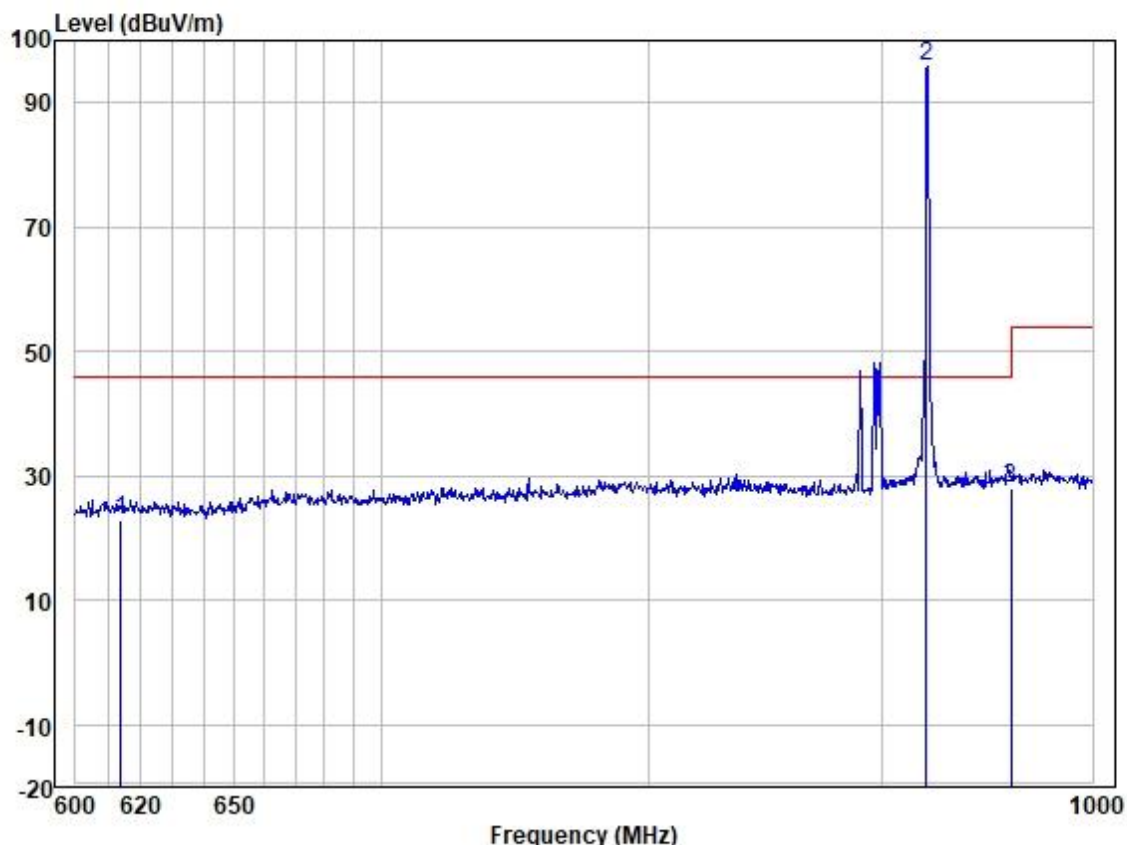


Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 917.5

	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	dB		
1	614.000	27.56	25.88	1.44	32.64	22.24	46.02	-23.78	HORIZONTAL	QP
2	917.500	95.18	29.51	1.77	30.92	95.54	46.02	49.52	HORIZONTAL	QP
3	960.000	26.07	30.12	1.82	30.73	27.28	46.02	-18.74	HORIZONTAL	QP



Test Mode: 01; Polarity: Horizontal

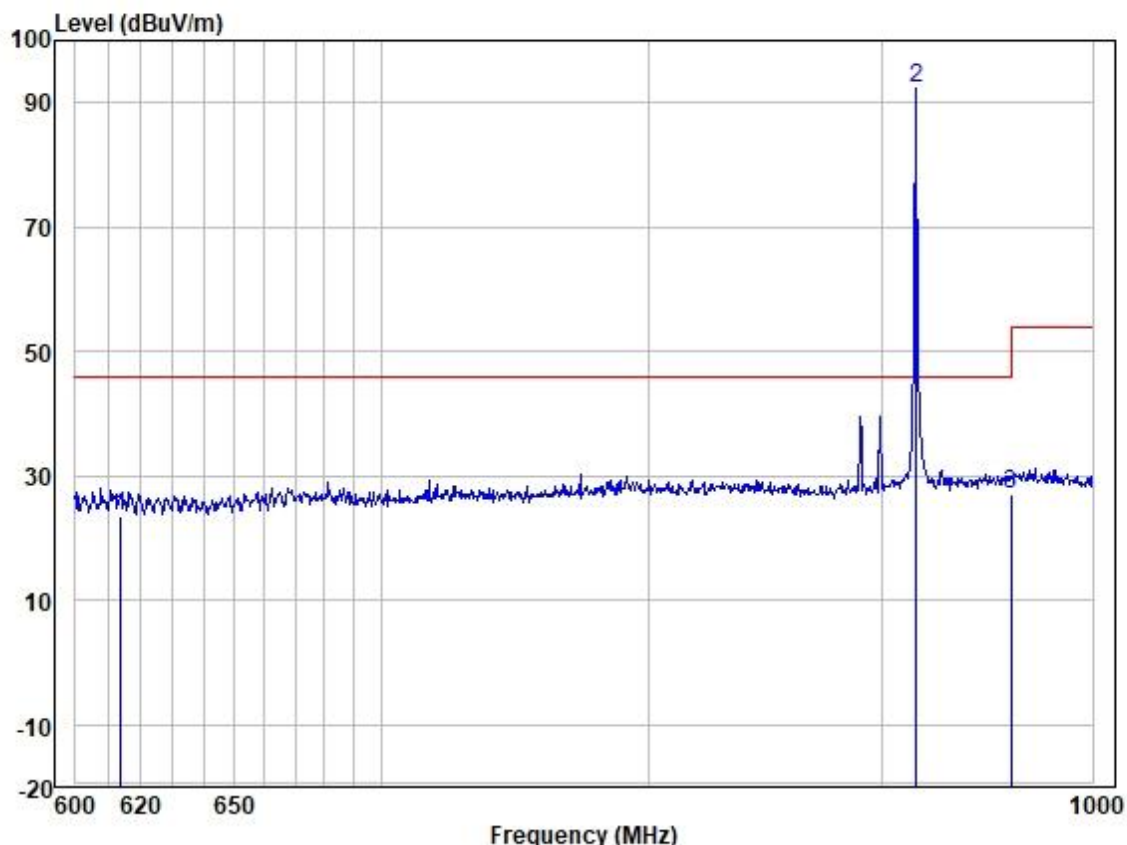


Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 920

	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	dB		
1	614.000	28.05	25.88	1.44	32.64	22.73	46.02	-23.29	HORIZONTAL	QP
2	920.000	95.21	29.60	1.77	30.90	95.68	46.02	49.66	HORIZONTAL	QP
3	960.000	26.69	30.12	1.82	30.73	27.90	46.02	-18.12	HORIZONTAL	QP



Test Mode: 01; Polarity: Vertical

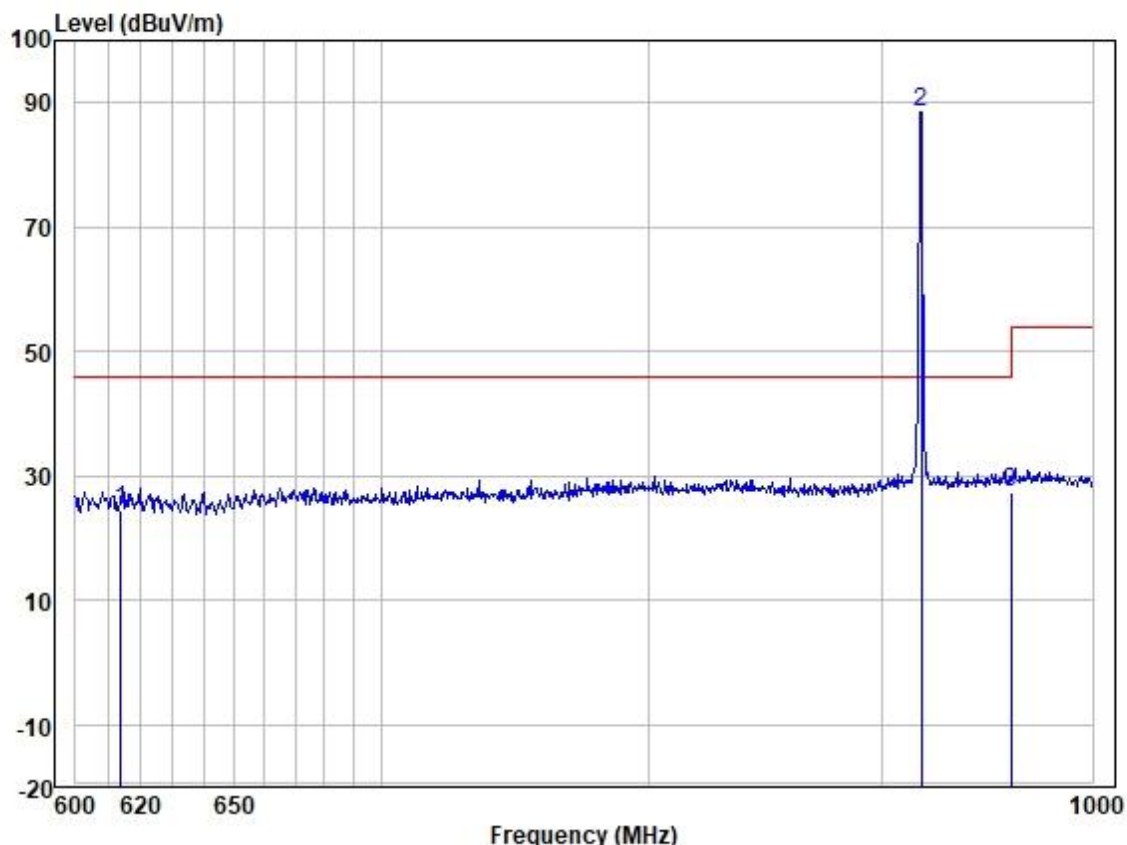


Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 915

	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	dB		
1	614.000	28.90	25.88	1.44	32.64	23.58	46.02	-22.44	VERTICAL	QP
2	915.420	92.05	29.44	1.77	30.94	92.32	46.02	46.30	VERTICAL	QP
3	960.000	25.73	30.12	1.82	30.73	26.94	46.02	-19.08	VERTICAL	QP



Test Mode: 01; Polarity: Vertical

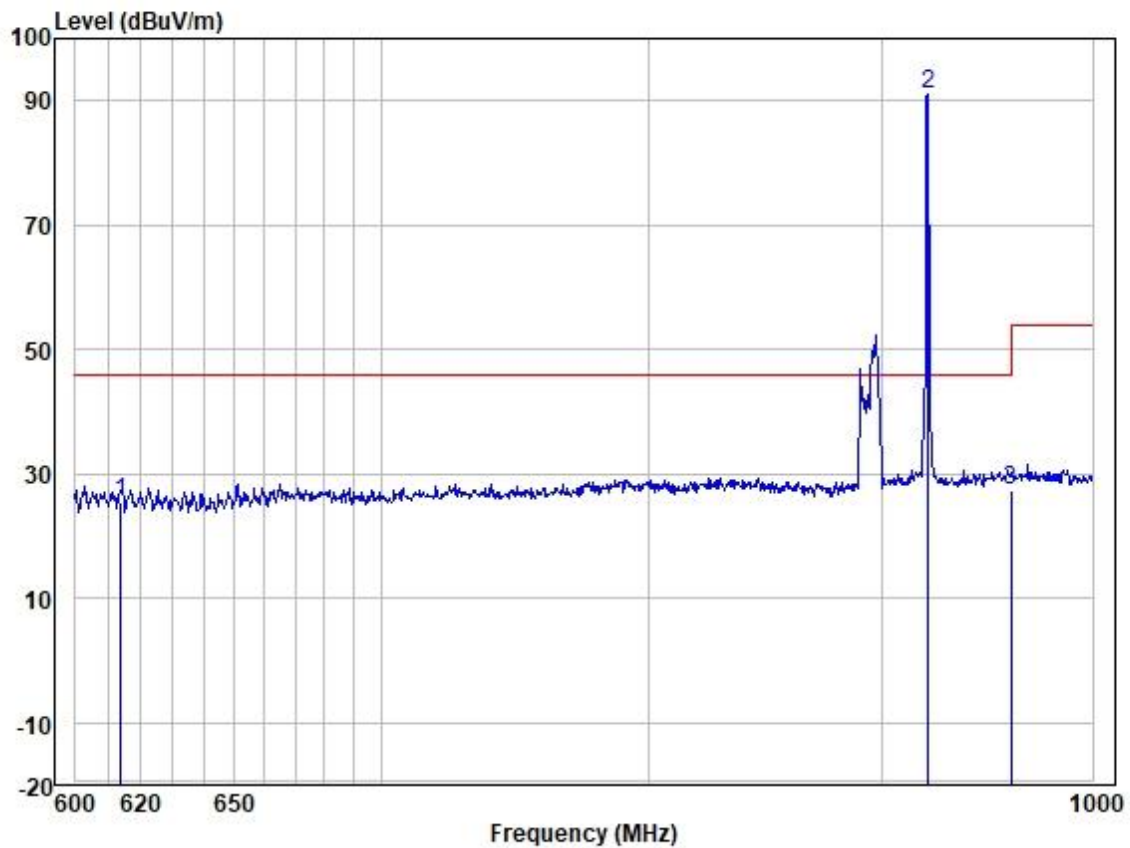


Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 917.5

	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	dB		
1	614.000	29.94	25.88	1.44	32.64	24.62	46.02	-21.40	VERTICAL	QP
2	917.292	88.02	29.51	1.77	30.92	88.38	46.02	42.36	VERTICAL	QP
3	960.000	26.22	30.12	1.82	30.73	27.43	46.02	-18.59	VERTICAL	QP



Test Mode: 01; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 920

	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	dB		
1	614.000	30.82	25.88	1.44	32.64	25.50	46.02	-20.52	VERTICAL	QP
2	920.578	90.48	29.60	1.77	30.90	90.95	46.02	44.93	VERTICAL	QP
3	960.000	26.25	30.12	1.82	30.73	27.46	46.02	-18.56	VERTICAL	QP



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

Limit:

Test Distance: 3 m

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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

Humidity: 58.1 % RH

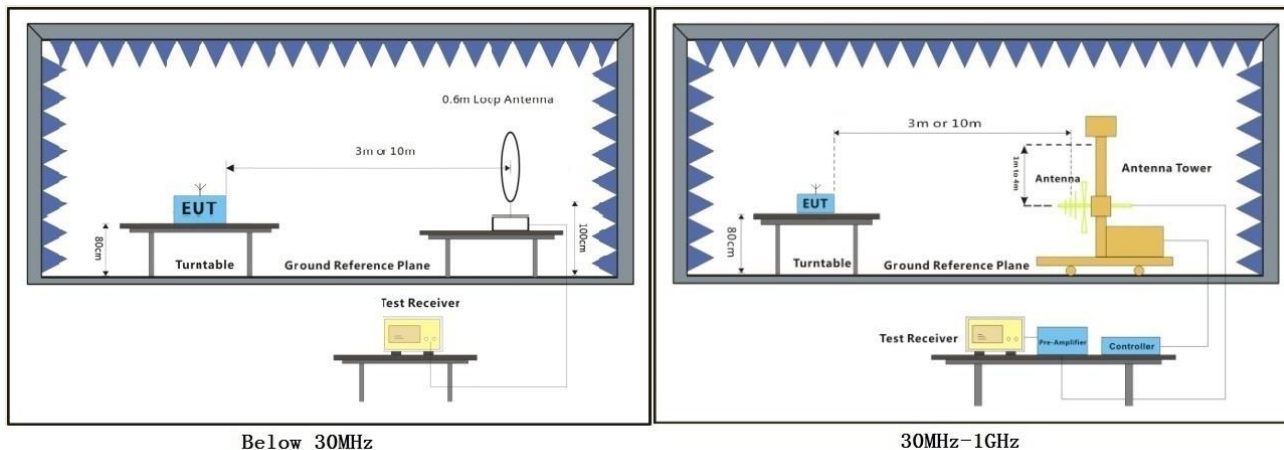
Atmospheric Pressure: 1020 mbar

7.3.2 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with modulation mode.



7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, 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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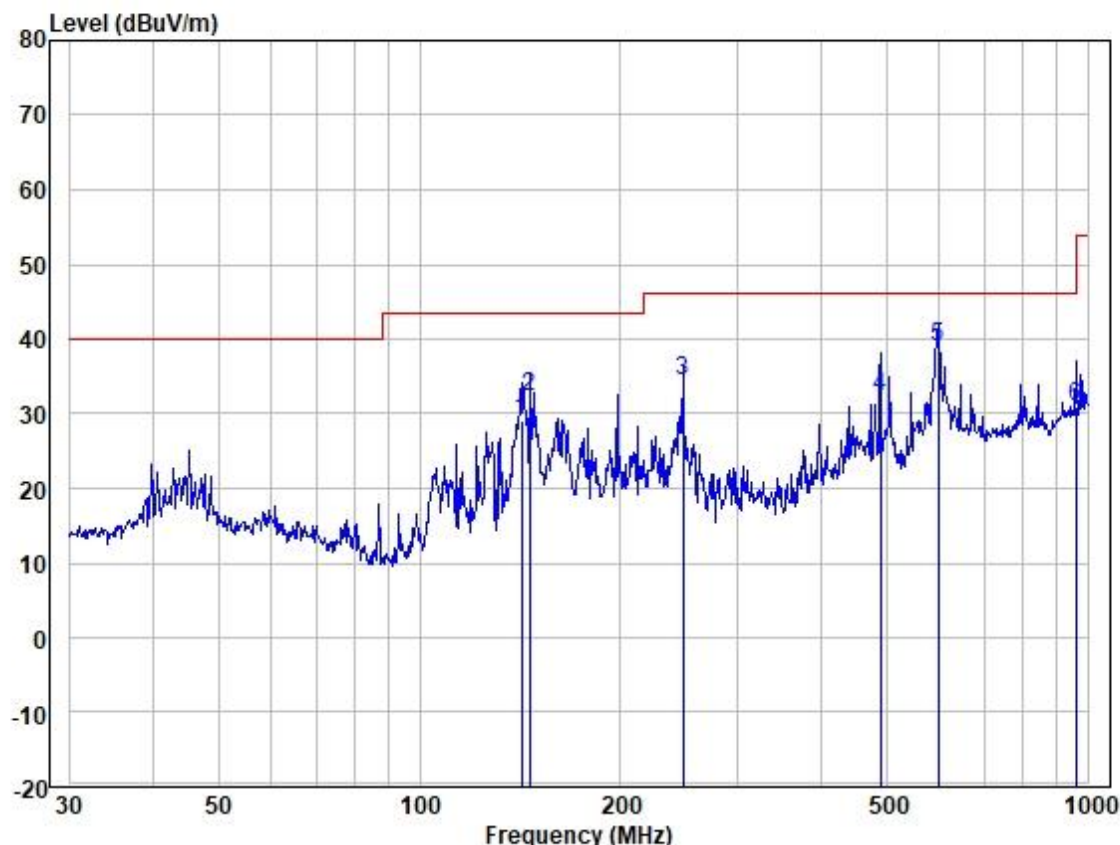
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Test Mode: 00; Polarity: Horizontal

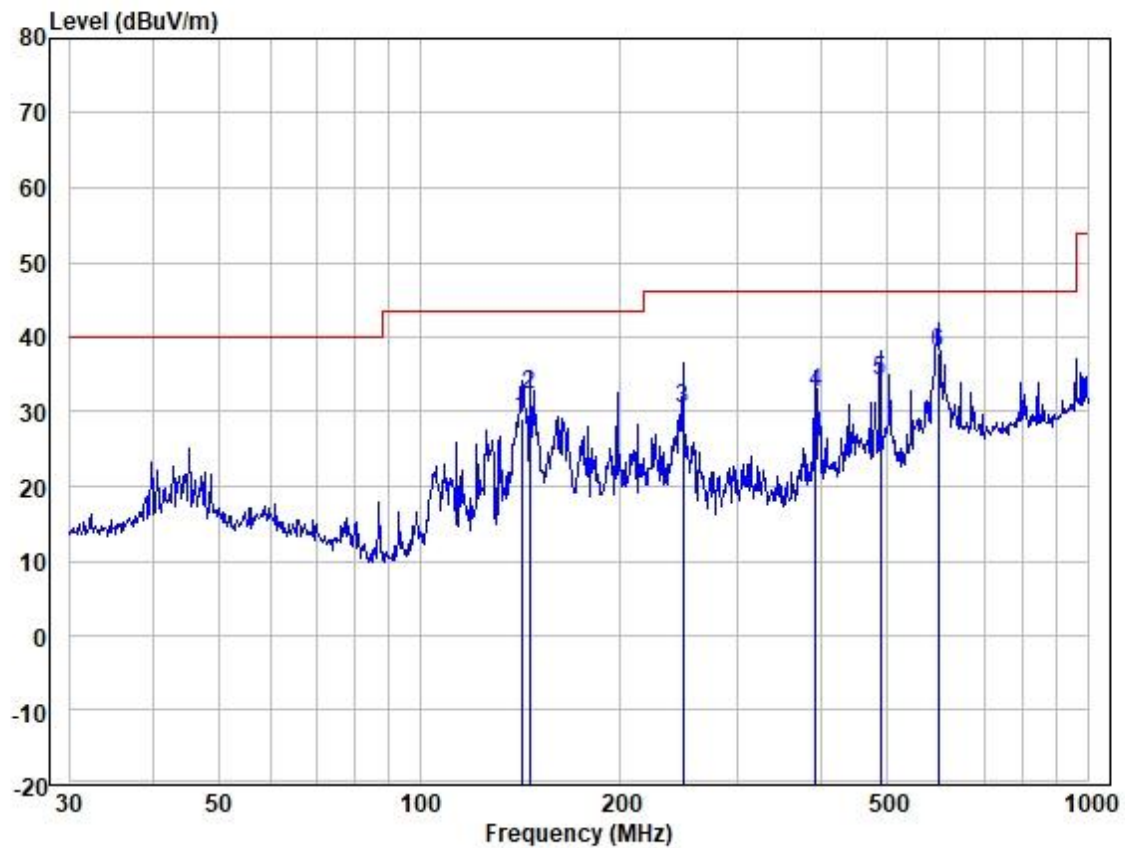


Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

	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	dB		
1	142.324	42.29	18.83	0.64	32.74	29.02	43.52	-14.50	HORIZONTAL	QP
2	146.374	45.28	19.00	0.66	32.74	32.20	43.52	-11.32	HORIZONTAL	QP
3	247.682	48.89	17.52	0.88	32.84	34.45	46.02	-11.57	HORIZONTAL	QP
4	489.027	40.54	23.30	1.28	32.94	32.18	46.02	-13.84	HORIZONTAL	QP
5	597.223	44.37	25.74	1.43	32.72	38.82	46.02	-7.20	HORIZONTAL	QP
6	958.794	29.83	30.10	1.81	30.73	31.01	46.02	-15.01	HORIZONTAL	QP



Test Mode: 00; Polarity: Vertical

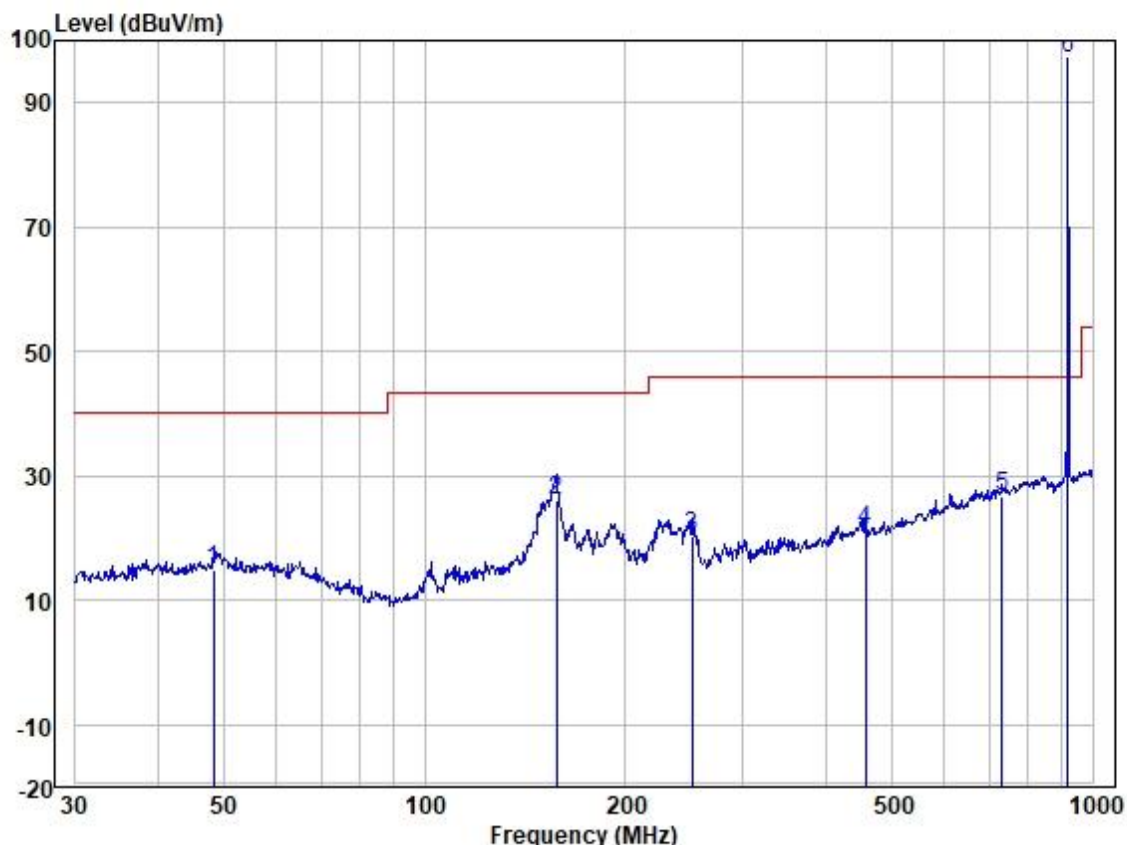


Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

	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	dB		
1	142.324	42.29	18.83	0.64	32.74	29.02	43.52	-14.50	VERTICAL	QP
2	146.374	45.28	19.00	0.66	32.74	32.20	43.52	-11.32	VERTICAL	QP
3	247.682	44.89	17.52	0.88	32.84	30.45	46.02	-15.57	VERTICAL	QP
4	392.095	42.95	21.40	1.15	32.90	32.60	46.02	-13.42	VERTICAL	QP
5	489.027	42.54	23.30	1.28	32.94	34.18	46.02	-11.84	VERTICAL	QP
6	597.223	43.37	25.74	1.43	32.72	37.82	46.02	-8.20	VERTICAL	QP



Test Mode: 01; Polarity: Horizontal



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 915

	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	dB		
1	48.332	27.79	19.64	0.38	32.79	15.02	40.00	-24.98	HORIZONTAL	QP
2	157.559	39.06	19.17	0.70	32.77	26.16	43.52	-17.36	HORIZONTAL	QP
3	251.180	34.52	17.63	0.89	32.84	20.20	46.02	-25.82	HORIZONTAL	QP
4	457.507	29.93	22.96	1.25	32.93	21.21	46.02	-24.81	HORIZONTAL	QP
5	731.920	29.43	27.44	1.57	31.74	26.70	46.02	-19.32	HORIZONTAL	QP
6	916.069	96.68	29.44	1.77	30.93	96.96	46.02	50.94	HORIZONTAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



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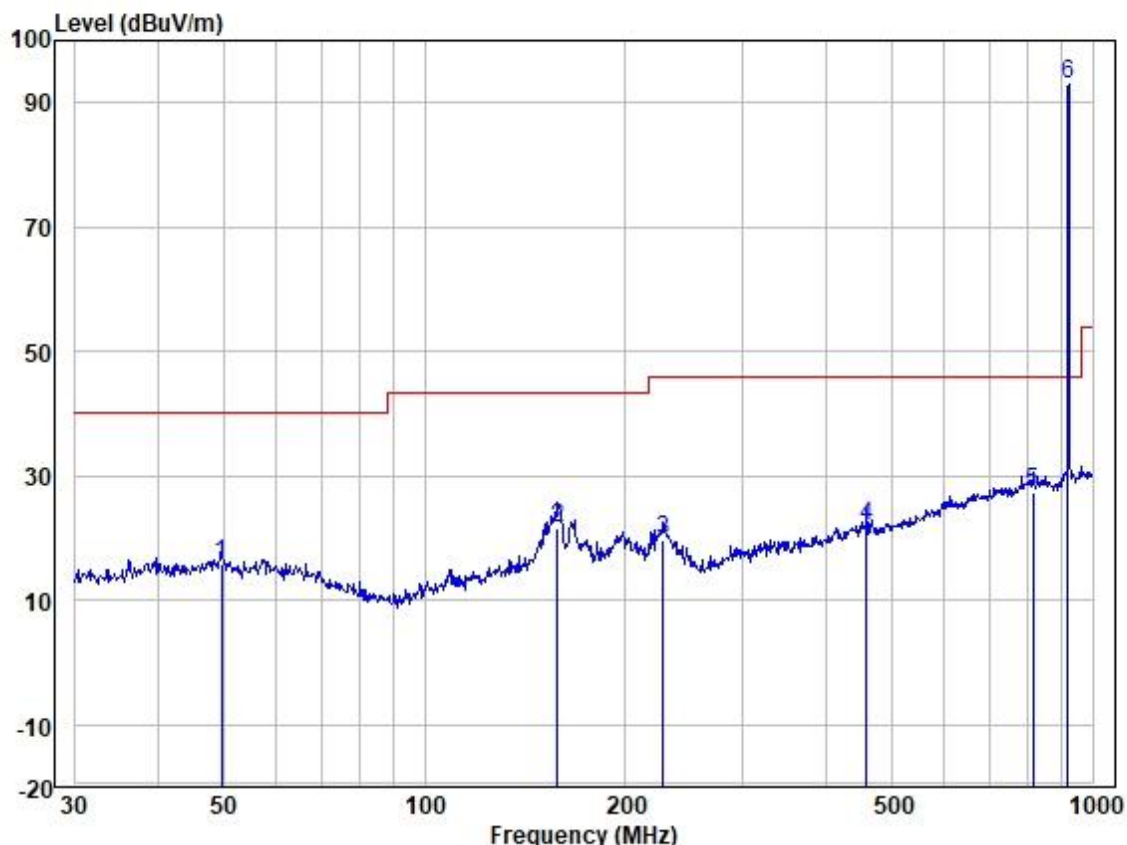
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Test Mode: 01; Polarity: Horizontal



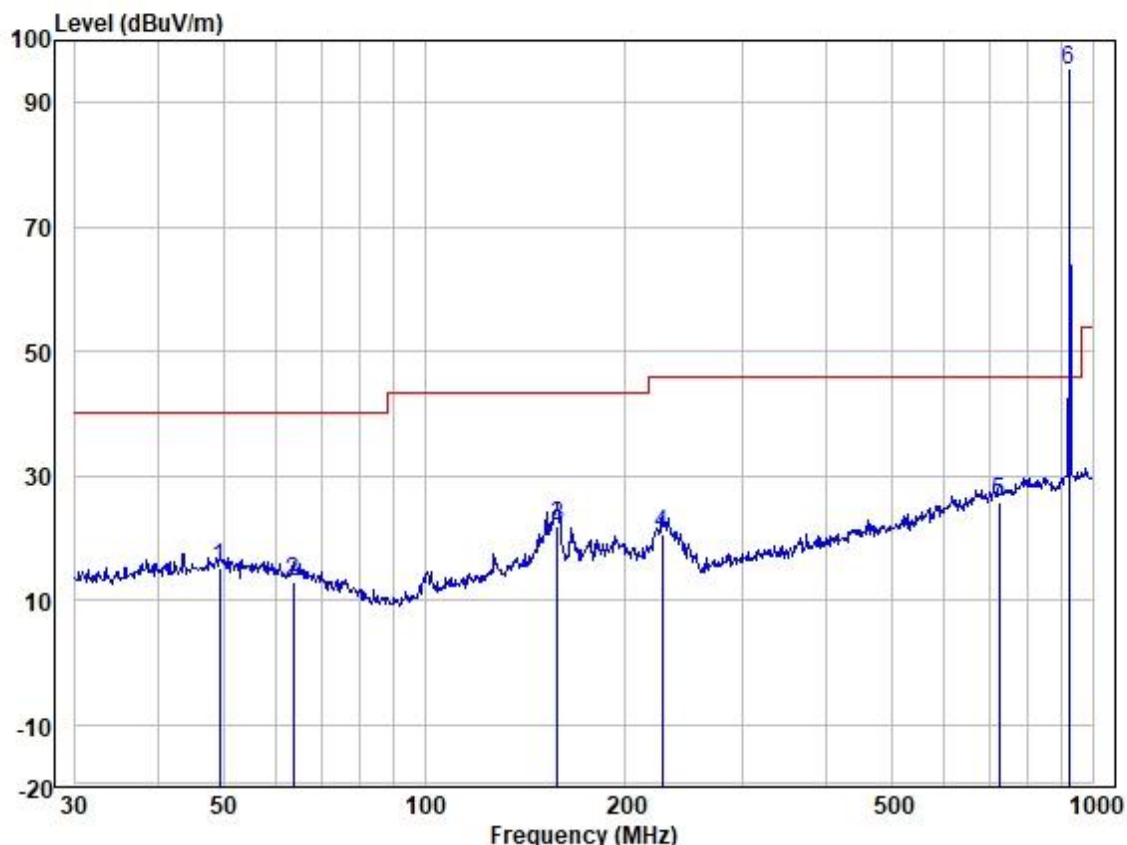
Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 917.5

	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	dB		
1	49.707	28.66	19.65	0.39	32.79	15.91	40.00	-24.09	HORIZONTAL	QP
2	158.112	34.55	19.17	0.70	32.77	21.65	43.52	-21.87	HORIZONTAL	QP
3	227.691	35.45	16.21	0.82	32.82	19.66	46.02	-26.36	HORIZONTAL	QP
4	459.114	30.61	22.98	1.25	32.93	21.91	46.02	-24.11	HORIZONTAL	QP
5	813.112	28.41	28.95	1.67	31.58	27.45	46.02	-18.57	HORIZONTAL	QP
6	917.500	92.71	29.51	1.77	30.92	93.07	46.02	47.05	HORIZONTAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



Test Mode: 01; Polarity: Horizontal



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 920

	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	dB		
1	49.359	28.09	19.65	0.39	32.79	15.34	40.00	-24.66	HORIZONTAL	QP
2	63.759	27.03	18.37	0.43	32.77	13.06	40.00	-26.94	HORIZONTAL	QP
3	158.112	34.78	19.17	0.70	32.77	21.88	43.52	-21.64	HORIZONTAL	QP
4	226.894	36.45	16.13	0.82	32.82	20.58	46.02	-25.44	HORIZONTAL	QP
5	724.261	28.57	27.41	1.56	31.76	25.78	46.02	-20.24	HORIZONTAL	QP
6	920.000	94.83	29.60	1.77	30.90	95.30	46.02	49.28	HORIZONTAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



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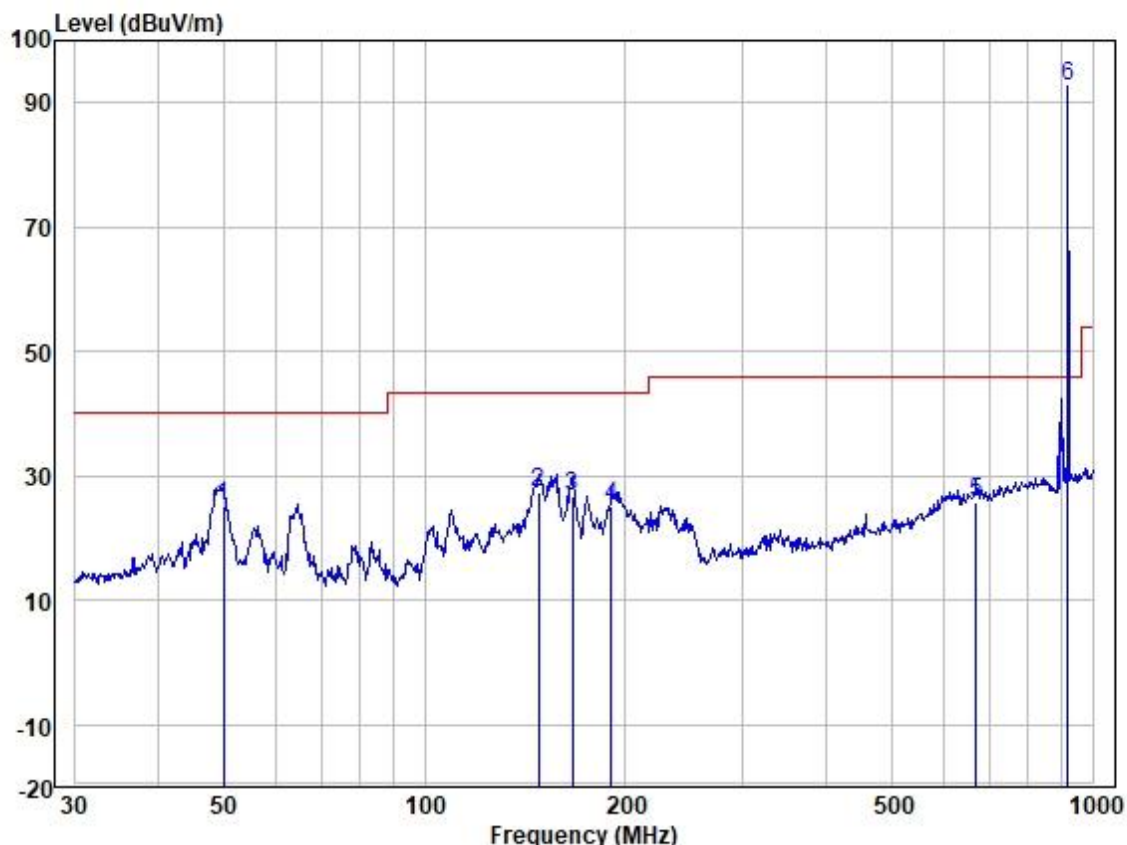
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Test Mode: 01; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 915

	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	dB		
1	50.057	37.78	19.66	0.39	32.79	25.04	40.00	-14.96	VERTICAL	QP
2	147.921	40.30	19.06	0.66	32.75	27.27	43.52	-16.25	VERTICAL	QP
3	166.651	40.01	18.83	0.72	32.79	26.77	43.52	-16.75	VERTICAL	QP
4	190.405	40.90	16.29	0.77	32.80	25.16	43.52	-18.36	VERTICAL	QP
5	668.142	29.58	26.66	1.52	32.03	25.73	46.02	-20.29	VERTICAL	QP
6	916.069	92.21	29.44	1.77	30.93	92.49	46.02	46.47	VERTICAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



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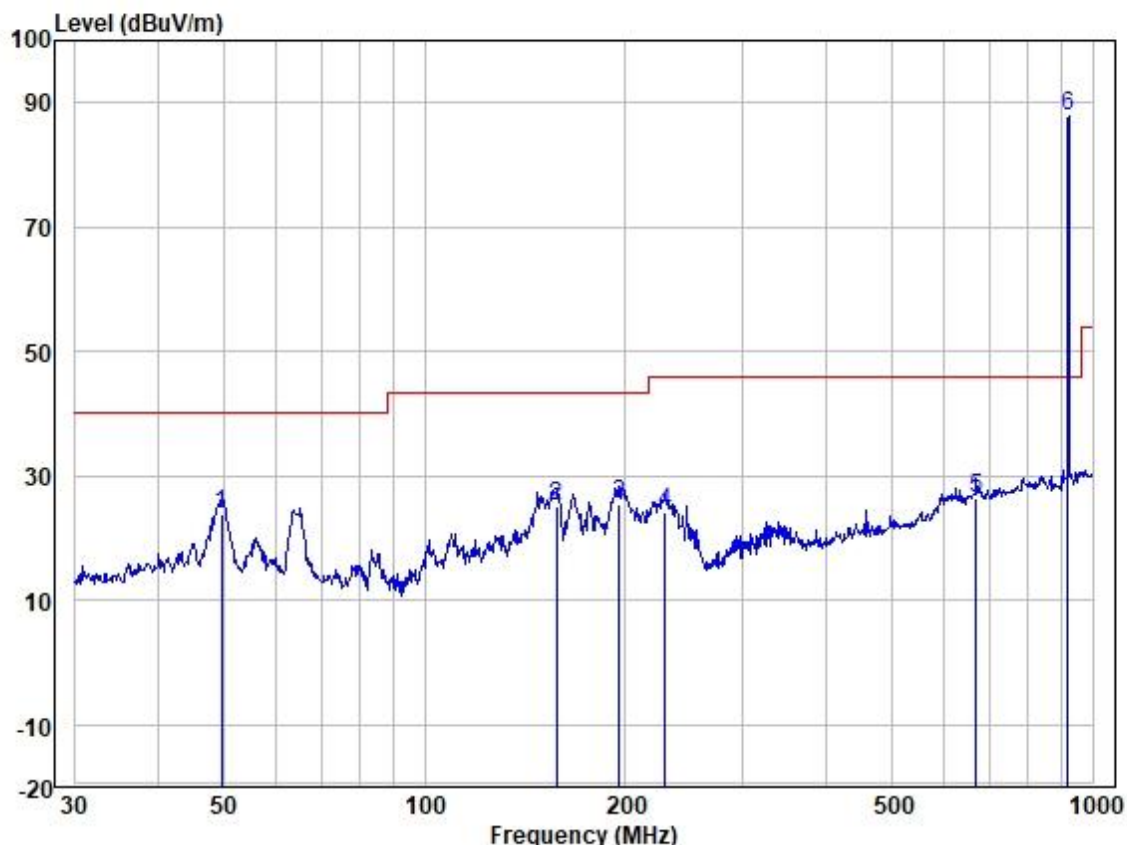
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Test Mode: 01; Polarity: Vertical



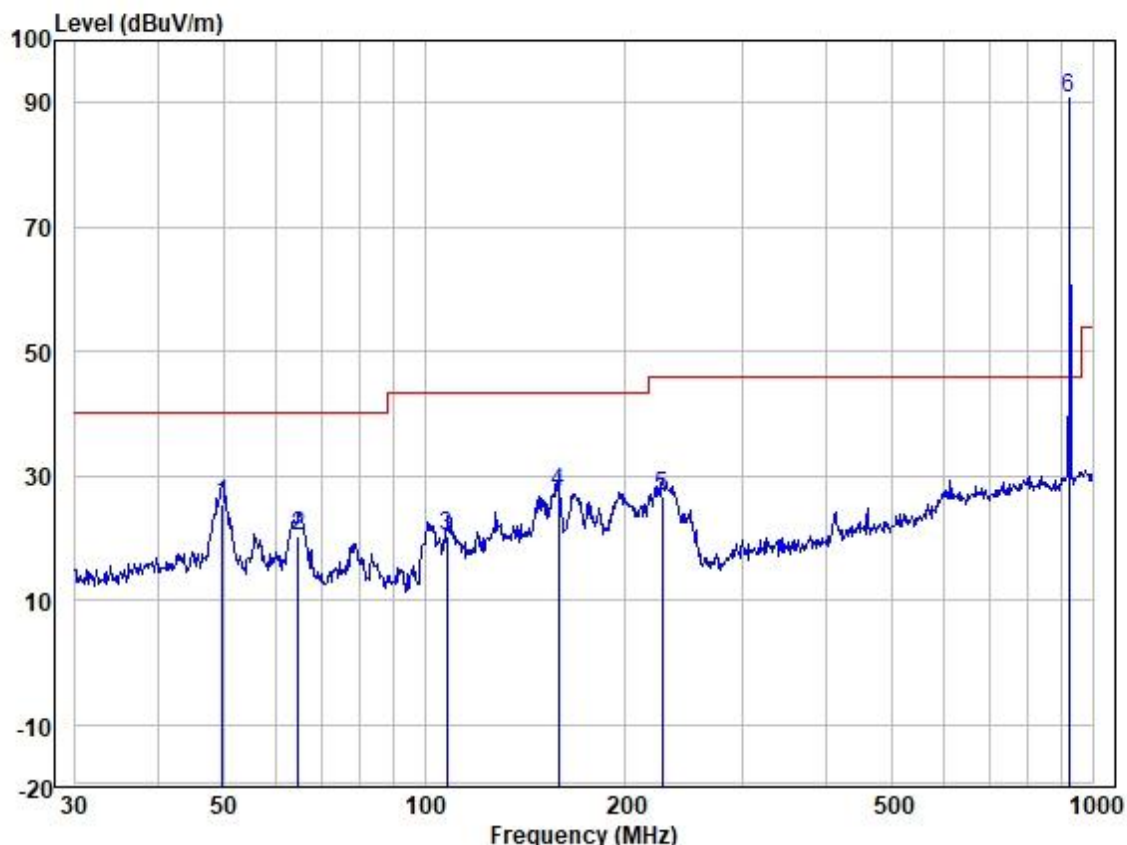
Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 917.5

	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	dB		
1	49.707	36.65	19.65	0.39	32.79	23.90	40.00	-16.10	VERTICAL	QP
2	157.559	37.95	19.17	0.70	32.77	25.05	43.52	-18.47	VERTICAL	QP
3	195.822	41.56	15.87	0.78	32.81	25.40	43.52	-18.12	VERTICAL	QP
4	229.293	39.90	16.29	0.83	32.82	24.20	46.02	-21.82	VERTICAL	QP
5	668.142	30.35	26.66	1.52	32.03	26.50	46.02	-19.52	VERTICAL	QP
6	917.500	87.49	29.51	1.77	30.92	87.85	46.02	41.83	VERTICAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



Test Mode: 01; Polarity: Vertical



Site : 966 Chamber
Job :
Model :
Power :
Test Mode : 920

	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	dB		
1	49.881	38.24	19.65	0.39	32.79	25.49	40.00	-14.51	VERTICAL	QP
2	64.659	34.40	18.20	0.44	32.77	20.27	40.00	-19.73	VERTICAL	QP
3	107.888	36.78	15.74	0.56	32.70	20.38	43.52	-23.14	VERTICAL	QP
4	158.668	40.13	19.16	0.70	32.77	27.22	43.52	-16.30	VERTICAL	QP
5	226.894	42.55	16.13	0.82	32.82	26.68	46.02	-19.34	VERTICAL	QP
6	920.000	90.14	29.60	1.77	30.90	90.61	46.02	44.59	VERTICAL	QP

*Remark: Point 6 are the intentional fundamental emission frequency that shall be excluded.



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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 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 55.8 % RH

Atmospheric Pressure: 1020 mbar

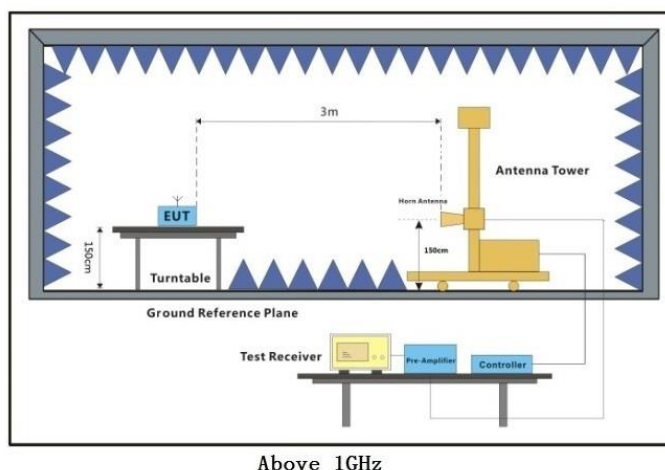
7.4.2 Test Mode Description

Pre-scan / Mode
Final test 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

Final test 01 TX mode_Keep the EUT in continuously transmitting mode with modulation mode.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

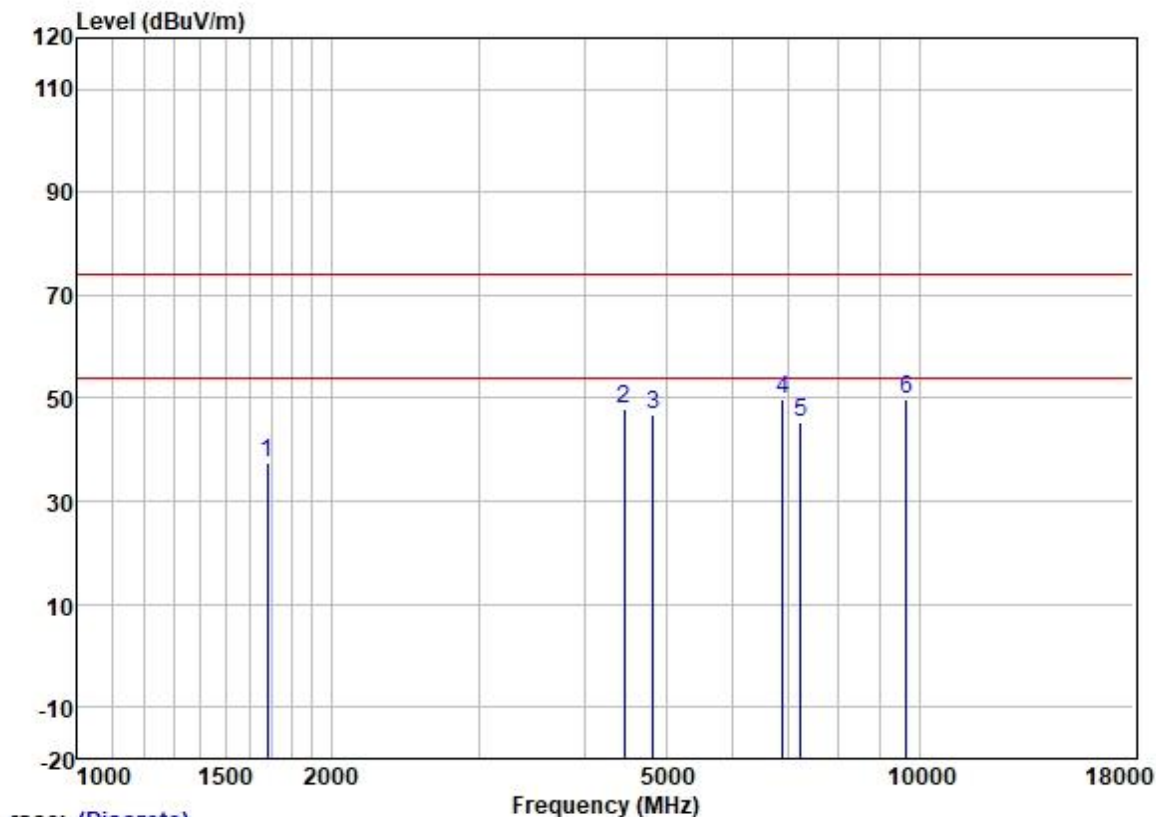
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. 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. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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

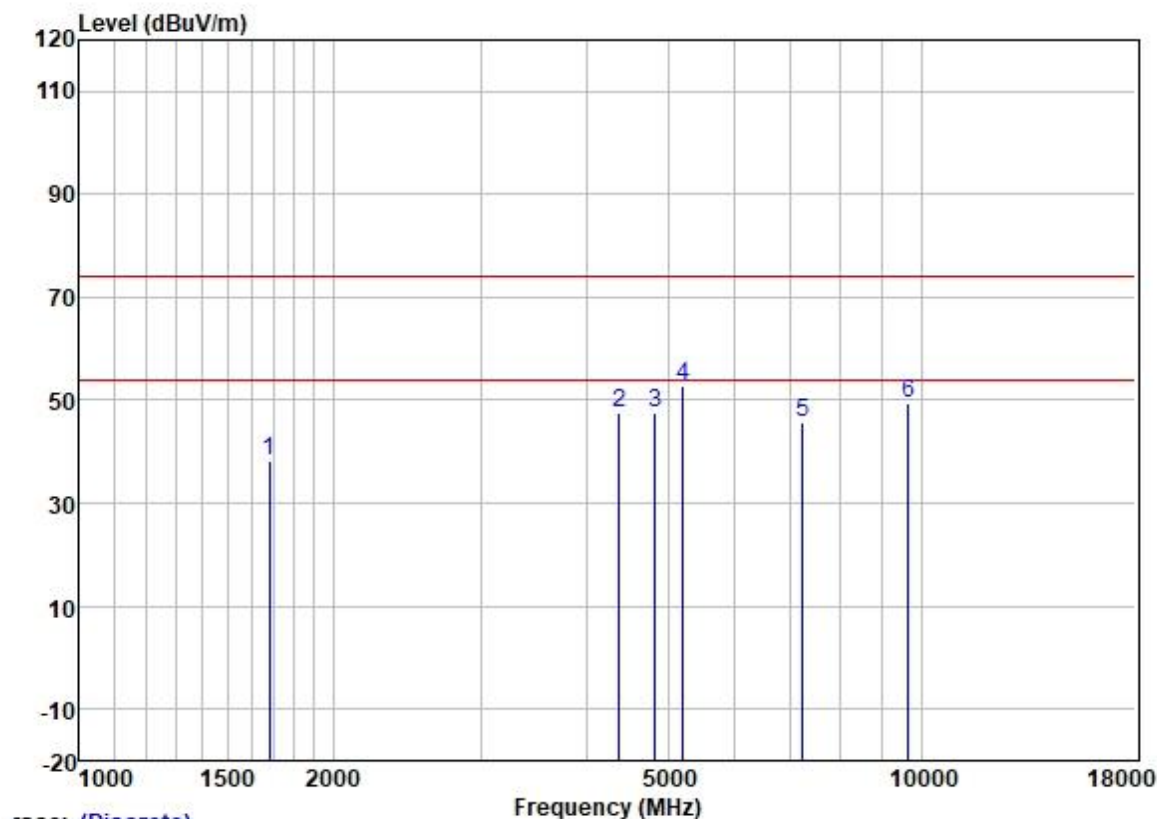


Trace: (Discrete)

	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	1682.477	46.96	25.03	3.25	37.93	37.31	74.00	-36.69	VERTICAL peak
2	4456.315	45.36	34.00	5.35	36.83	47.88	74.00	-26.12	VERTICAL peak
3	4824.000	44.20	34.16	5.46	36.87	46.95	74.00	-27.05	VERTICAL peak
4	6874.906	45.51	34.88	6.37	37.07	49.69	74.00	-24.31	VERTICAL peak
5	7236.000	40.42	35.78	6.35	37.14	45.41	74.00	-28.59	VERTICAL peak
6	9648.000	40.42	38.70	7.89	37.02	49.99	74.00	-24.01	VERTICAL peak



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

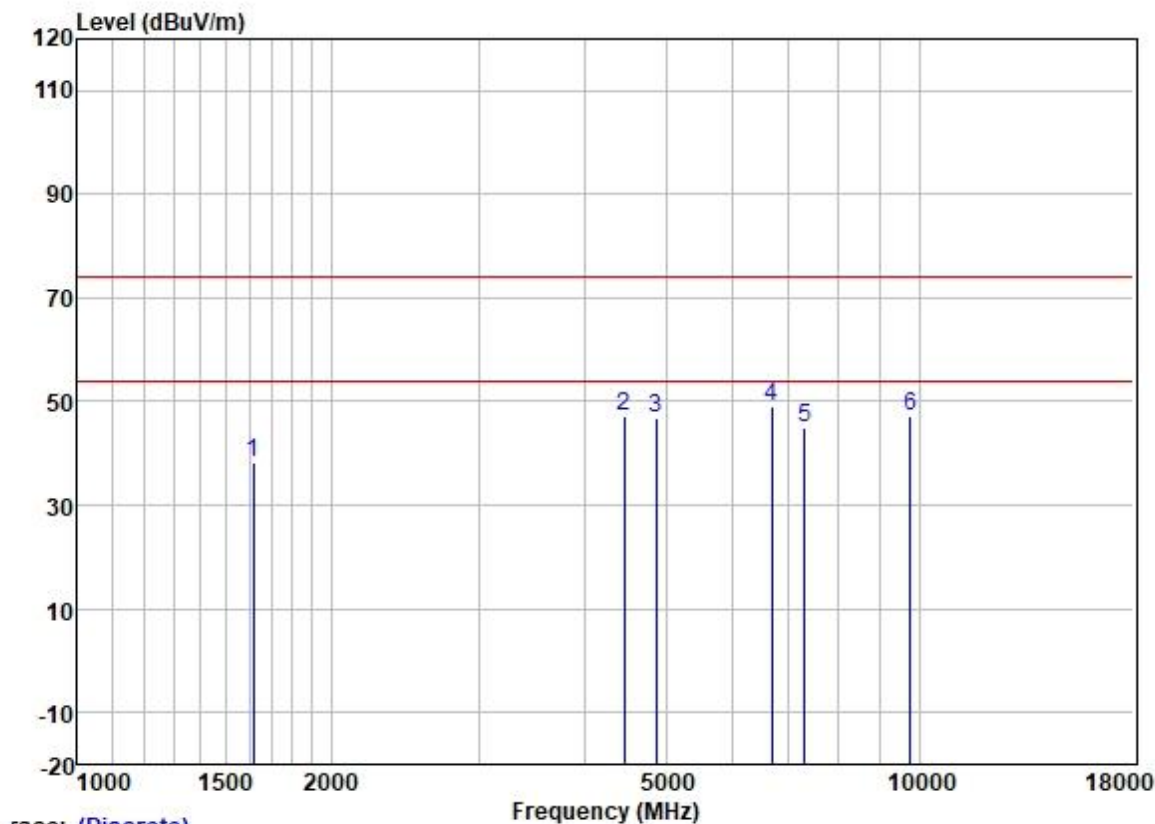


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1682.477	48.02	25.03	3.25	37.93	38.37	74.00	-35.63	HORIZONTAL peak
2	4379.699	45.56	33.59	5.35	36.82	47.68	74.00	-26.32	HORIZONTAL peak
3	4824.000	44.97	34.16	5.46	36.87	47.72	74.00	-26.28	HORIZONTAL peak
4	5209.075	50.69	33.58	5.33	36.94	52.66	74.00	-21.34	HORIZONTAL peak
5	7236.000	40.68	35.78	6.35	37.14	45.67	74.00	-28.33	HORIZONTAL peak
6	9648.000	40.00	38.70	7.89	37.02	49.57	74.00	-24.43	HORIZONTAL peak



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

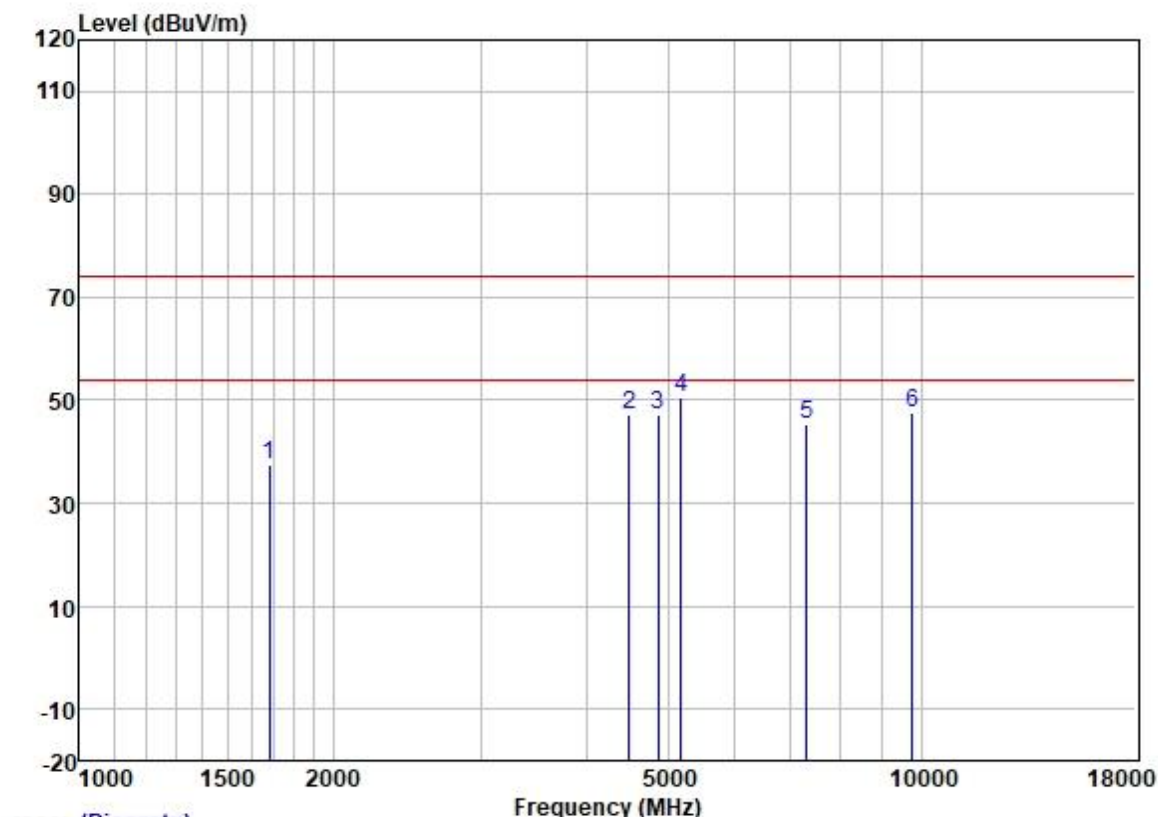


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1615.754	48.30	24.74	3.04	37.93	38.15	74.00	-35.85	VERTICAL peak
2	4456.315	44.52	34.00	5.35	36.83	47.04	74.00	-26.96	VERTICAL peak
3	4874.000	43.98	34.15	5.49	36.87	46.75	74.00	-27.25	VERTICAL peak
4	6679.040	45.41	34.28	6.27	37.05	48.91	74.00	-25.09	VERTICAL peak
5	7311.000	39.75	36.00	6.32	37.15	44.92	74.00	-29.08	VERTICAL peak
6	9748.000	37.85	38.81	7.43	37.01	47.08	74.00	-26.92	VERTICAL peak



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

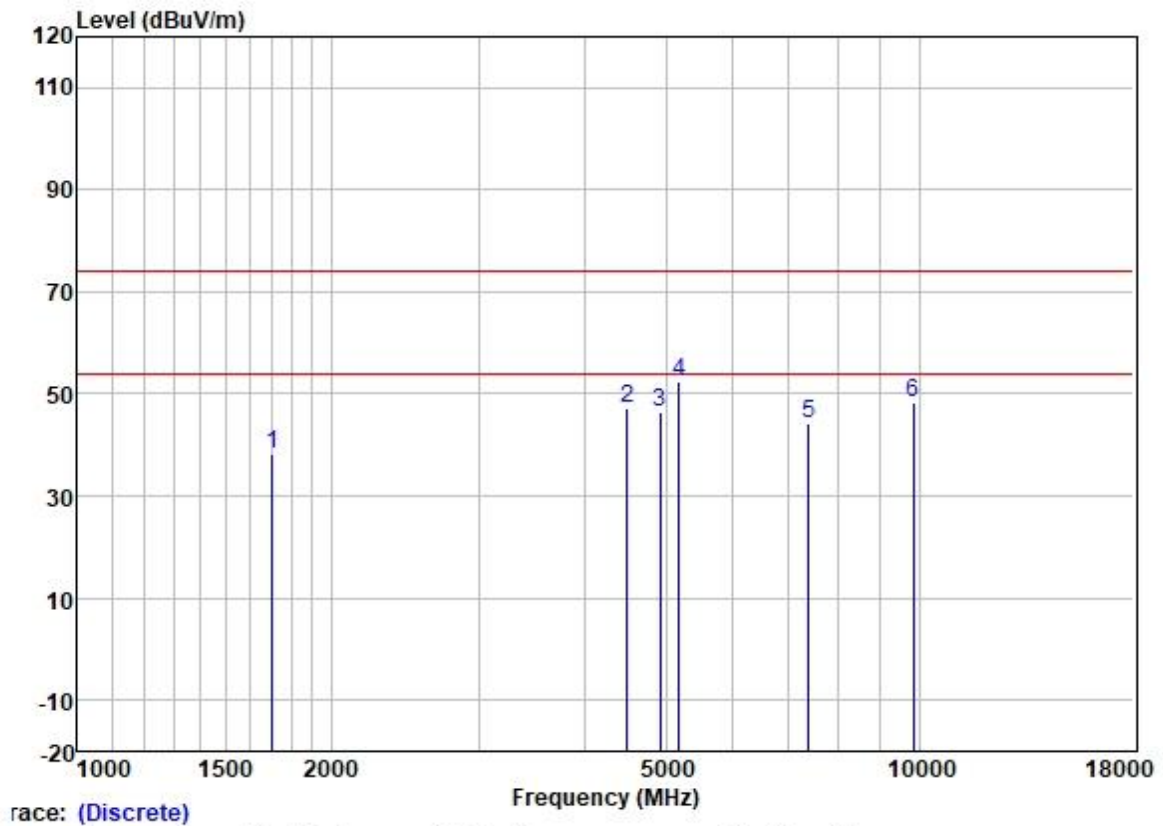


Trace: (Discrete)

		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	1682.477	46.99	25.03	3.25	37.93	37.34	74.00	-36.66	HORIZONTAL	peak
2	4495.125	44.71	34.17	5.33	36.83	47.38	74.00	-26.62	HORIZONTAL	peak
3	4874.000	44.47	34.15	5.49	36.87	47.24	74.00	-26.76	HORIZONTAL	peak
4	5179.049	48.63	33.69	5.33	36.93	50.72	74.00	-23.28	HORIZONTAL	peak
5	7311.000	40.28	36.00	6.32	37.15	45.45	74.00	-28.55	HORIZONTAL	peak
6	9748.000	38.50	38.81	7.43	37.01	47.73	74.00	-26.27	HORIZONTAL	peak



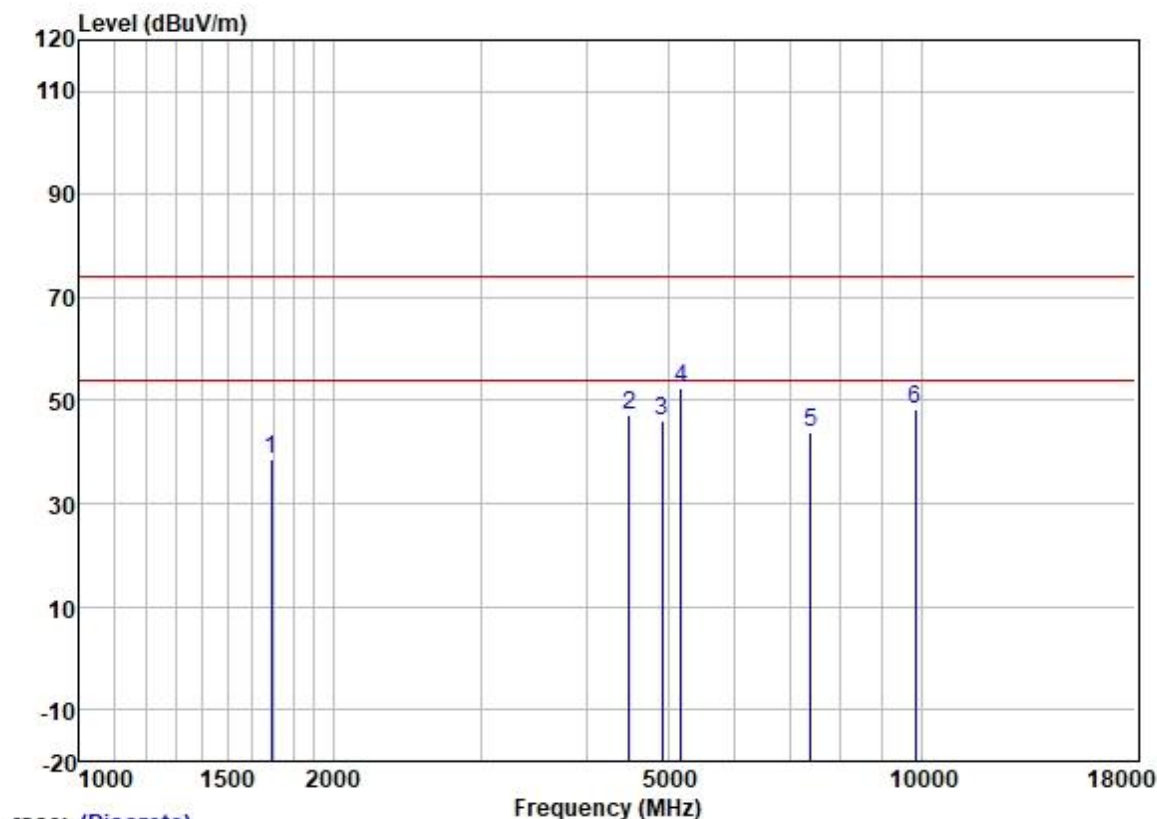
Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	47.69	25.15	3.36	37.92	38.28	74.00	-35.72	VERTICAL	peak
2	4495.125	44.68	34.17	5.33	36.83	47.35	74.00	-26.65	VERTICAL	peak
3	4924.000	43.57	34.15	5.51	36.88	46.35	74.00	-27.65	VERTICAL	peak
4	5179.049	50.35	33.69	5.33	36.93	52.44	74.00	-21.56	VERTICAL	peak
5	7386.000	38.74	36.23	6.30	37.16	44.11	74.00	-29.89	VERTICAL	peak
6	9848.000	39.49	38.88	7.06	37.01	48.42	74.00	-25.58	VERTICAL	peak



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

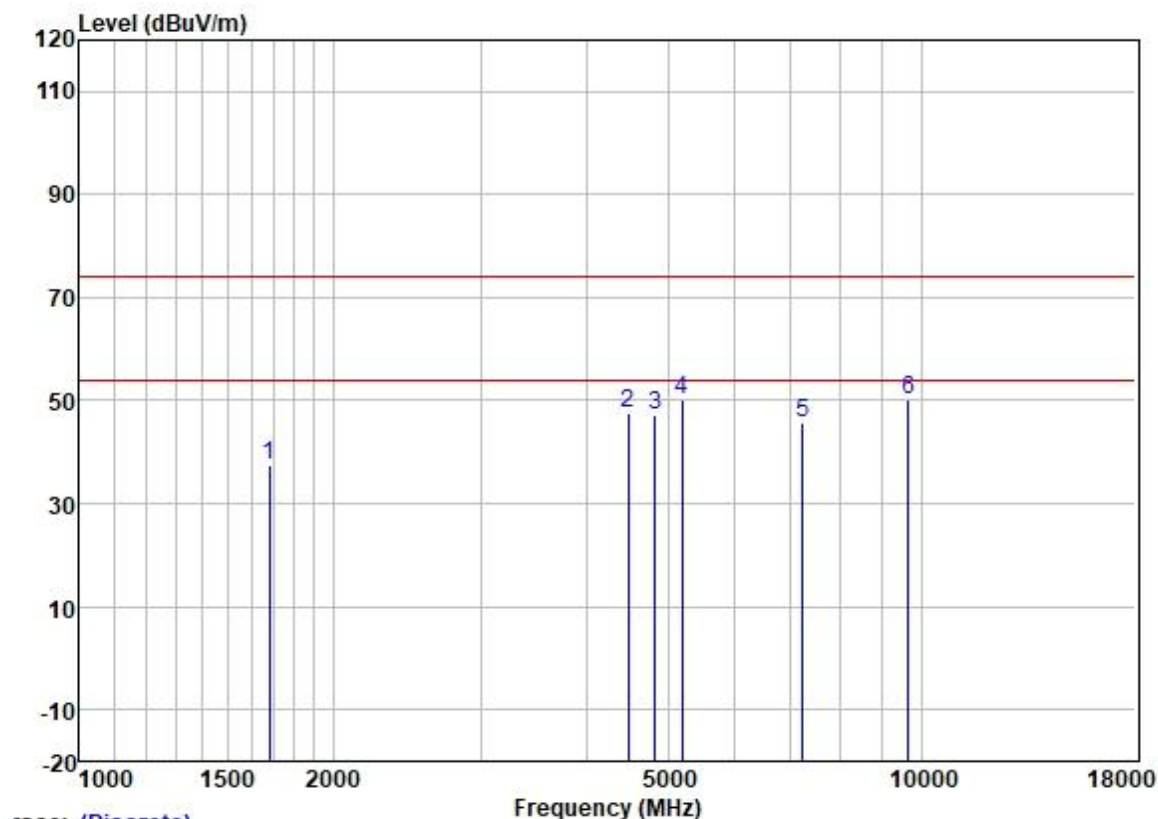


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1692.231	48.04	25.09	3.30	37.93	38.50	74.00	-35.50	HORIZONTAL peak
2	4495.125	44.60	34.17	5.33	36.83	47.27	74.00	-26.73	HORIZONTAL peak
3	4924.000	43.16	34.15	5.51	36.88	45.94	74.00	-28.06	HORIZONTAL peak
4	5179.049	50.29	33.69	5.33	36.93	52.38	74.00	-21.62	HORIZONTAL peak
5	7386.000	38.56	36.23	6.30	37.16	43.93	74.00	-30.07	HORIZONTAL peak
6	9848.000	39.46	38.88	7.06	37.01	48.39	74.00	-25.61	HORIZONTAL peak



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

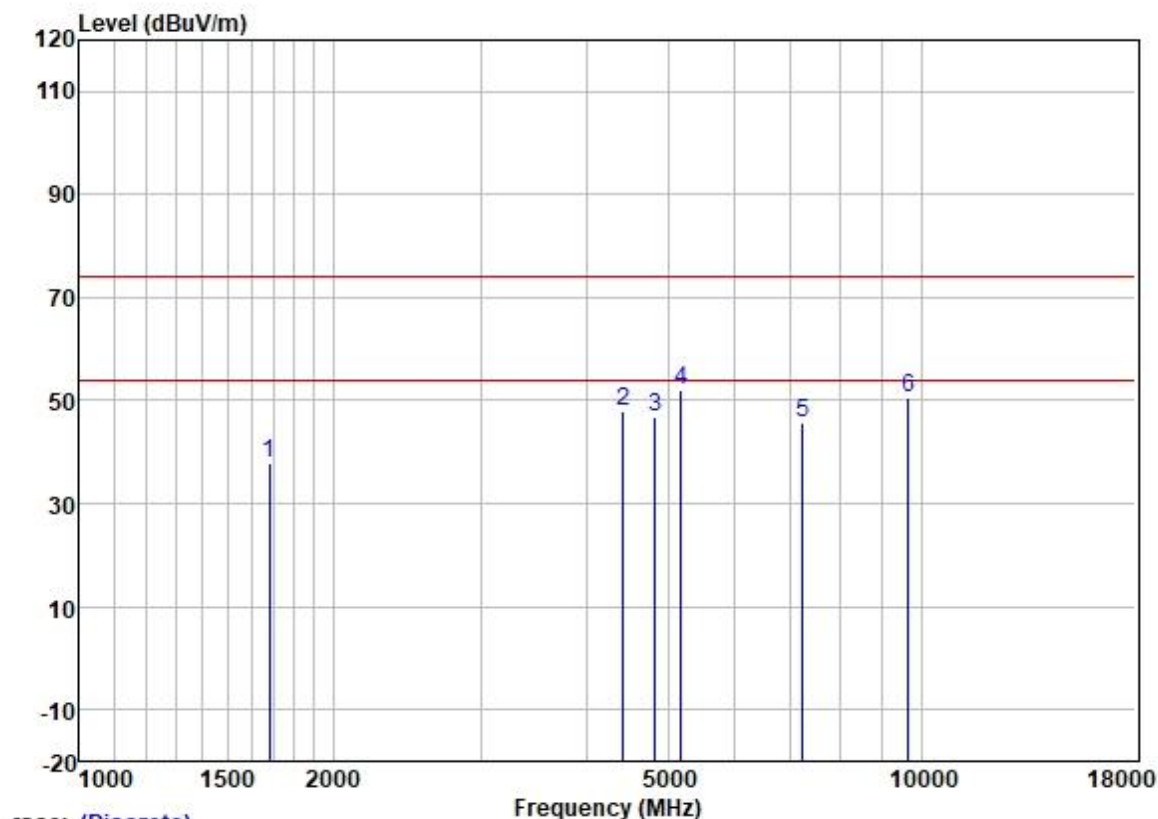


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1682.477	47.22	25.03	3.25	37.93	37.57	74.00	-36.43	VERTICAL peak
2	4482.150	44.88	34.12	5.34	36.83	47.51	74.00	-26.49	VERTICAL peak
3	4824.000	44.40	34.16	5.46	36.87	47.15	74.00	-26.85	VERTICAL peak
4	5194.041	48.16	33.64	5.31	36.93	50.18	74.00	-23.82	VERTICAL peak
5	7236.000	40.70	35.78	6.35	37.14	45.69	74.00	-28.31	VERTICAL peak
6	9648.000	40.46	38.70	7.89	37.02	50.03	74.00	-23.97	VERTICAL peak



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

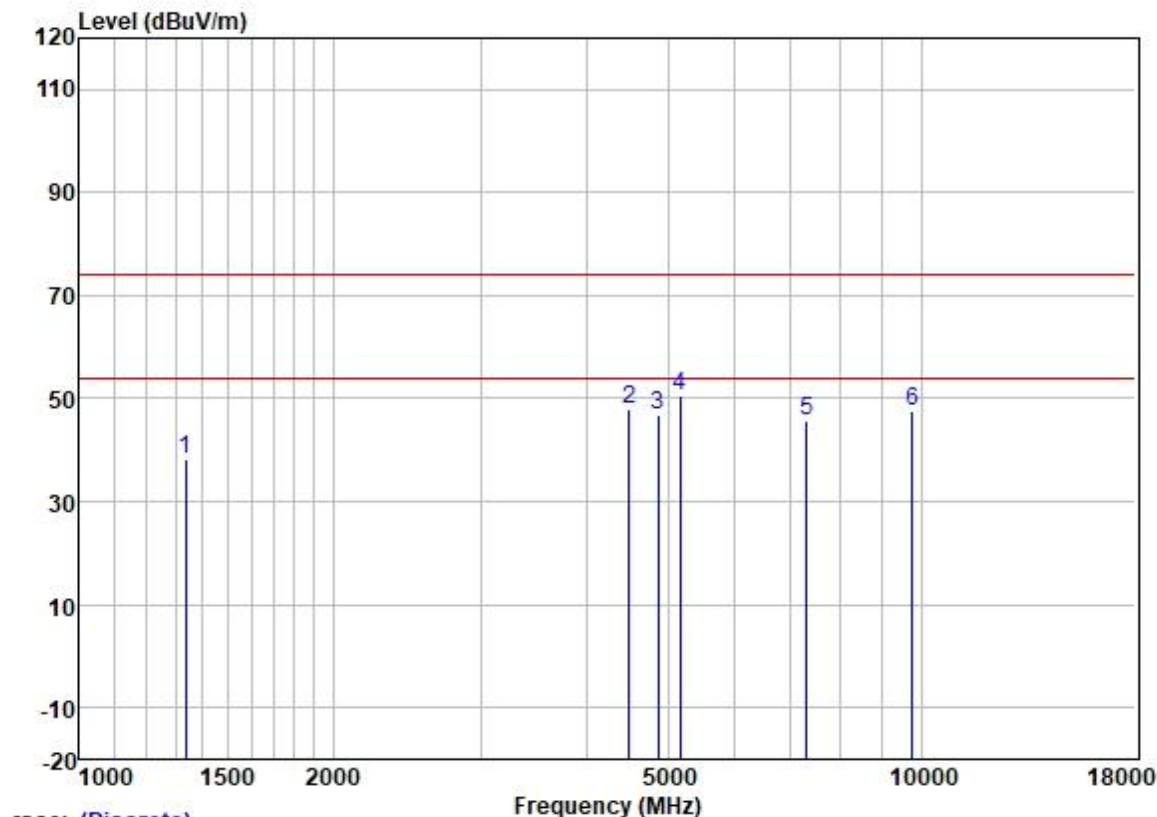


Trace: (Discrete)

	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	1682.477	47.65	25.03	3.25	37.93	38.00	74.00	-36.00	HORIZONTAL peak
2	4430.628	45.45	33.87	5.36	36.83	47.85	74.00	-26.15	HORIZONTAL peak
3	4824.000	44.00	34.16	5.46	36.87	46.75	74.00	-27.25	HORIZONTAL peak
4	5179.049	50.02	33.69	5.33	36.93	52.11	74.00	-21.89	HORIZONTAL peak
5	7236.000	40.53	35.78	6.35	37.14	45.52	74.00	-28.48	HORIZONTAL peak
6	9648.000	40.89	38.70	7.89	37.02	50.46	74.00	-23.54	HORIZONTAL peak



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

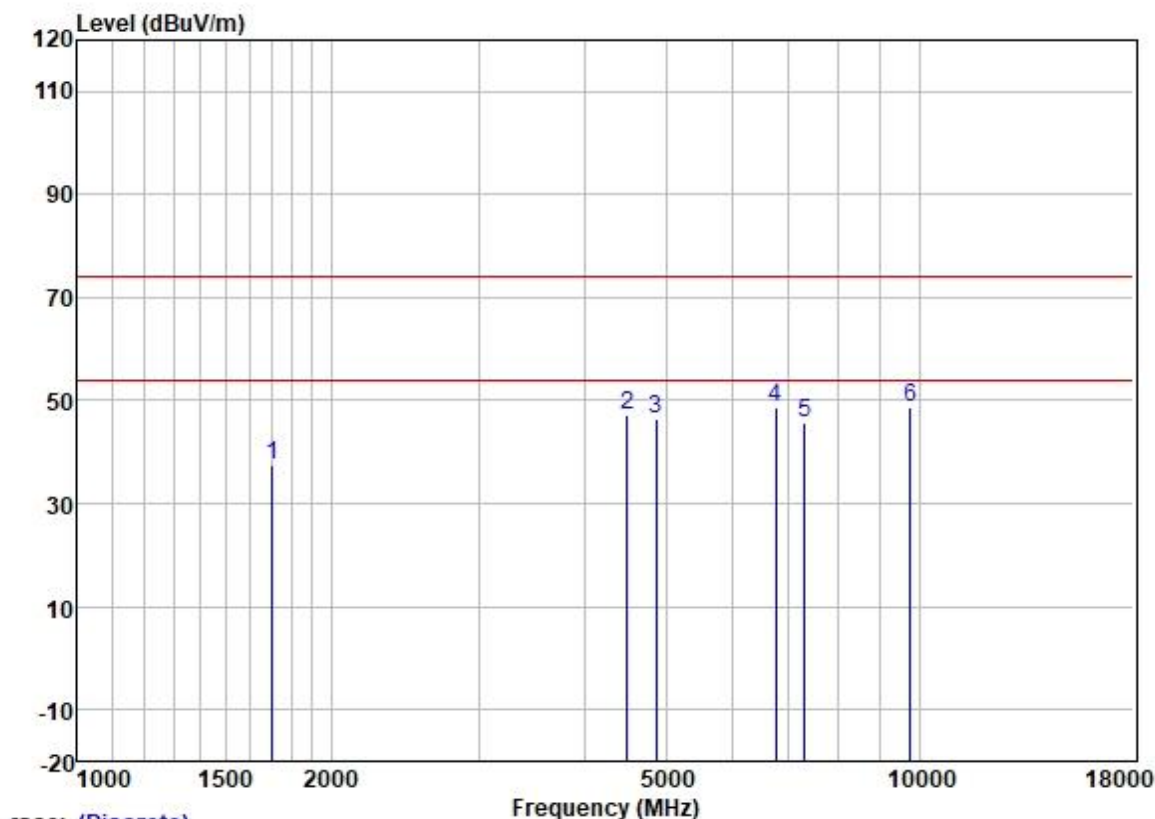


Trace: (Discrete)

	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	1335.141	49.24	24.09	2.73	37.97	38.09	74.00	-35.91	VERTICAL	peak
2	4495.125	45.17	34.17	5.33	36.83	47.84	74.00	-26.16	VERTICAL	peak
3	4874.000	43.98	34.15	5.49	36.87	46.75	74.00	-27.25	VERTICAL	peak
4	5164.102	48.53	33.74	5.34	36.93	50.68	74.00	-23.32	VERTICAL	peak
5	7311.000	40.40	36.00	6.32	37.15	45.57	74.00	-28.43	VERTICAL	peak
6	9748.000	38.53	38.81	7.43	37.01	47.76	74.00	-26.24	VERTICAL	peak



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

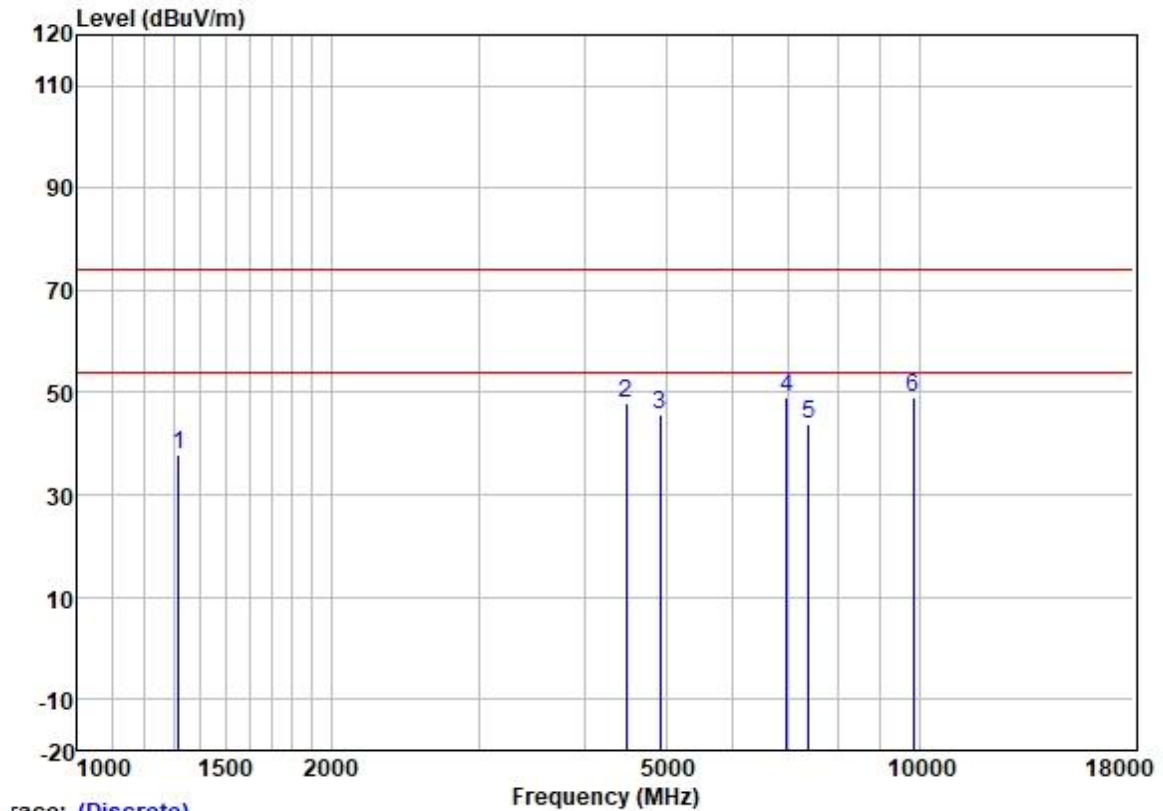


Trace: (Discrete)

	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	1702.042	46.97	25.15	3.36	37.92	37.56	74.00	-36.44	HORIZONTAL peak
2	4495.125	44.60	34.17	5.33	36.83	47.27	74.00	-26.73	HORIZONTAL peak
3	4874.000	43.76	34.15	5.49	36.87	46.53	74.00	-27.47	HORIZONTAL peak
4	6756.708	44.84	34.56	6.32	37.06	48.66	74.00	-25.34	HORIZONTAL peak
5	7311.000	40.63	36.00	6.32	37.15	45.80	74.00	-28.20	HORIZONTAL peak
6	9748.000	39.38	38.81	7.43	37.01	48.61	74.00	-25.39	HORIZONTAL peak



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

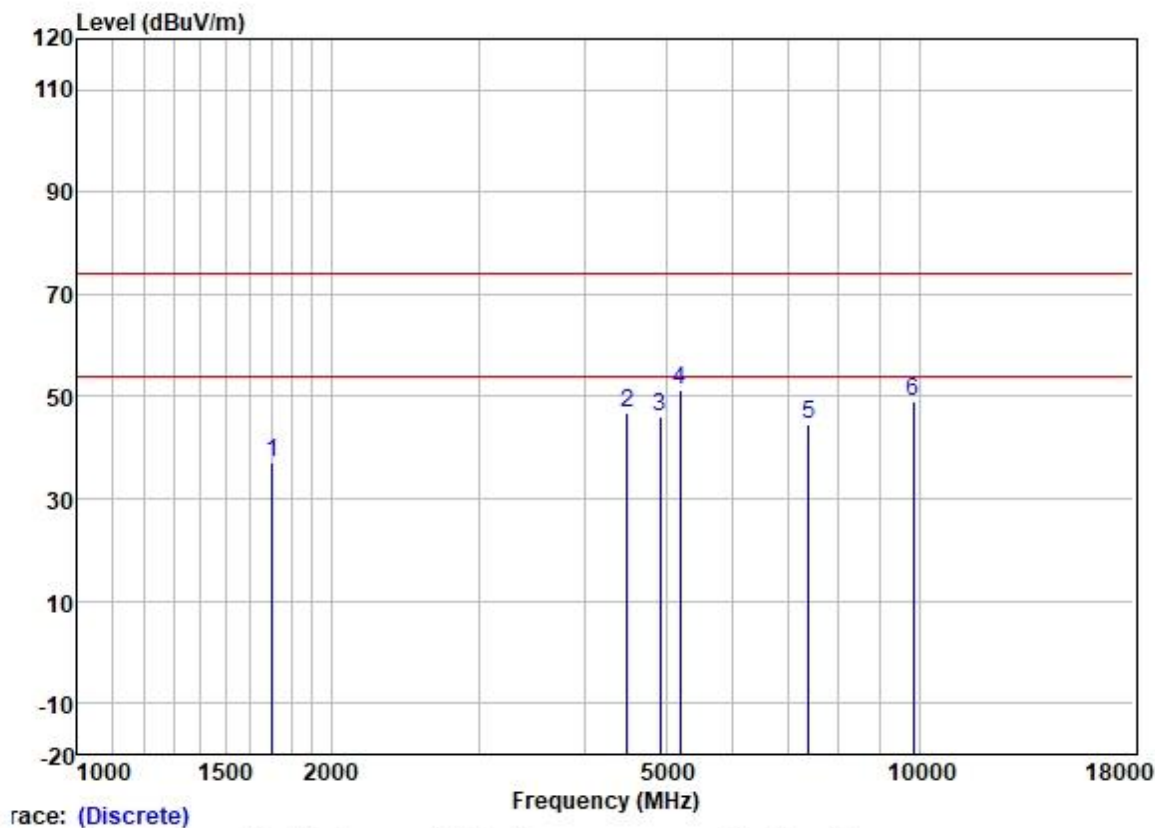


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1319.794	49.27	24.04	2.71	37.97	38.05	74.00	-35.95	VERTICAL peak
2	4482.150	45.21	34.12	5.34	36.83	47.84	74.00	-26.16	VERTICAL peak
3	4924.000	42.92	34.15	5.51	36.88	45.70	74.00	-28.30	VERTICAL peak
4	6954.852	44.66	35.04	6.40	37.09	49.01	74.00	-24.99	VERTICAL peak
5	7386.000	38.60	36.23	6.30	37.16	43.97	74.00	-30.03	VERTICAL peak
6	9848.000	40.26	38.88	7.06	37.01	49.19	74.00	-24.81	VERTICAL peak



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

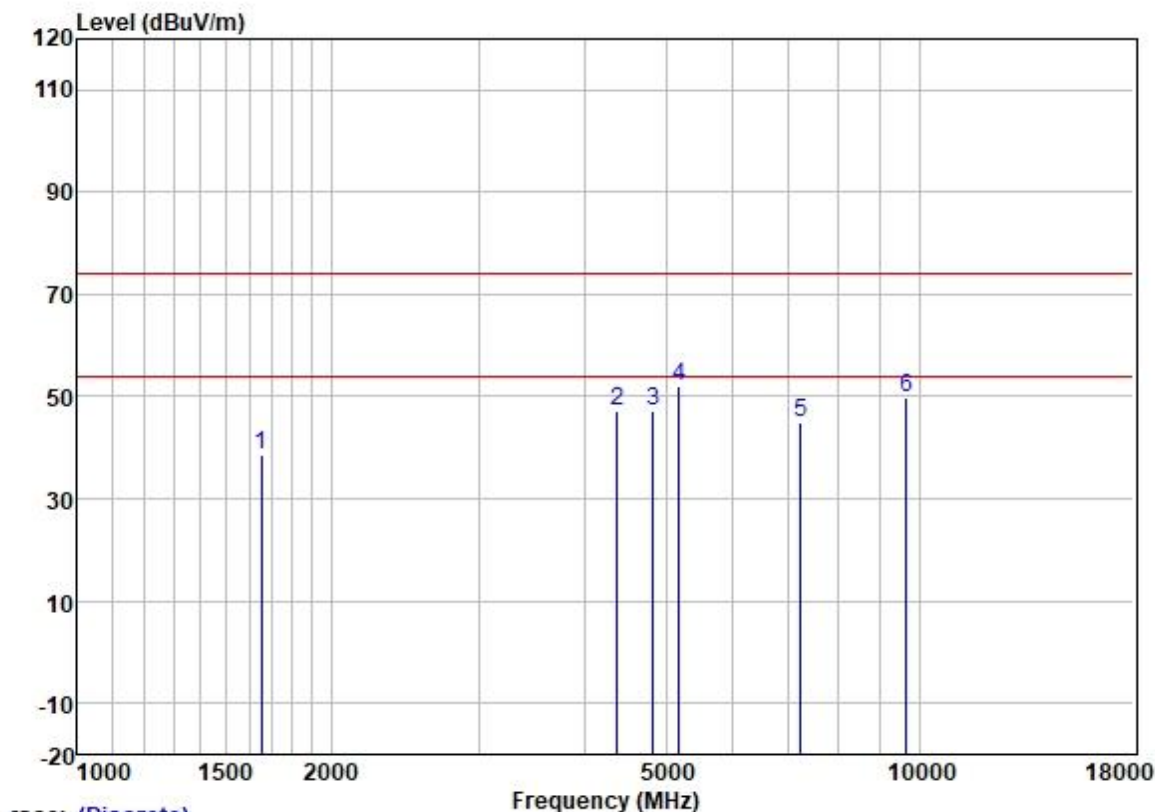


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1702.042	46.71	25.15	3.36	37.92	37.30	74.00	-36.70	HORIZONTAL peak
2	4495.125	44.15	34.17	5.33	36.83	46.82	74.00	-27.18	HORIZONTAL peak
3	4924.000	43.36	34.15	5.51	36.88	46.14	74.00	-27.86	HORIZONTAL peak
4	5194.041	49.43	33.64	5.31	36.93	51.45	74.00	-22.55	HORIZONTAL peak
5	7386.000	39.16	36.23	6.30	37.16	44.53	74.00	-29.47	HORIZONTAL peak
6	9848.000	39.98	38.88	7.06	37.01	48.91	74.00	-25.09	HORIZONTAL peak



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

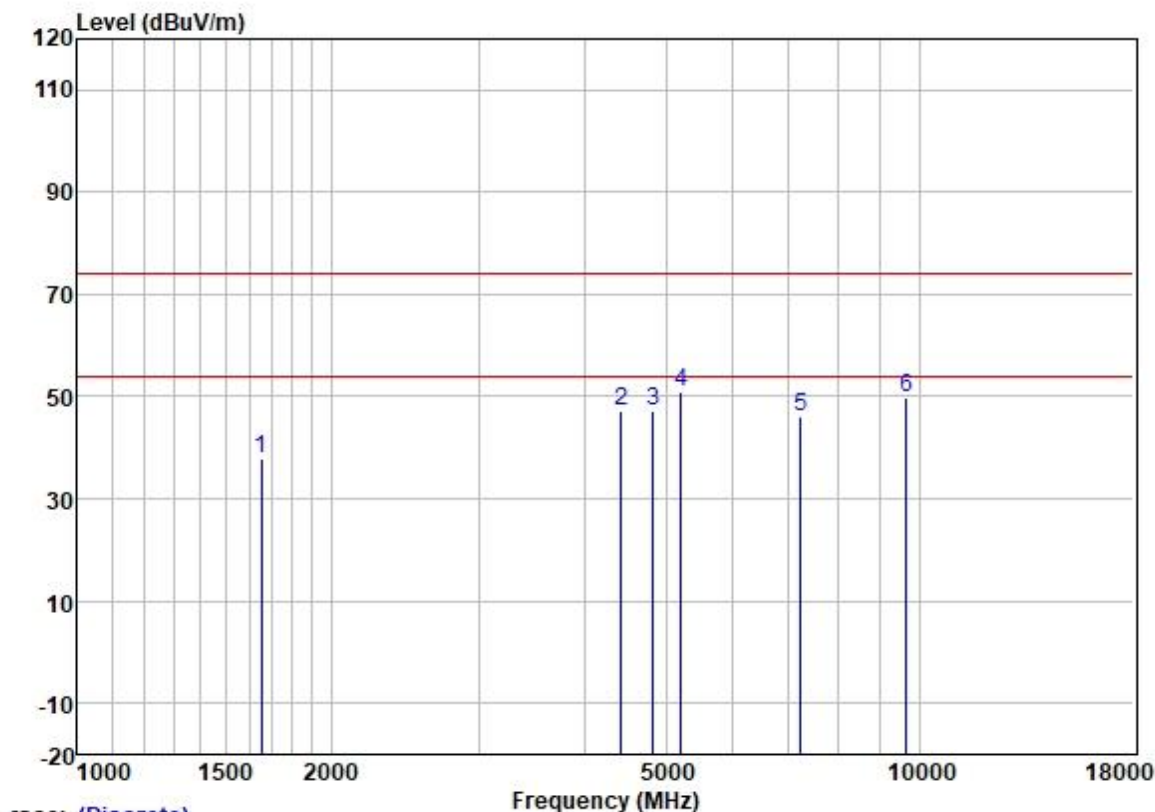


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1653.550	48.38	24.89	3.14	37.93	38.48	74.00	-35.52	VERTICAL peak
2	4379.699	45.11	33.59	5.35	36.82	47.23	74.00	-26.77	VERTICAL peak
3	4824.000	44.53	34.16	5.46	36.87	47.28	74.00	-26.72	VERTICAL peak
4	5179.049	49.81	33.69	5.33	36.93	51.90	74.00	-22.10	VERTICAL peak
5	7236.000	40.12	35.78	6.35	37.14	45.11	74.00	-28.89	VERTICAL peak
6	9648.000	40.15	38.70	7.89	37.02	49.72	74.00	-24.28	VERTICAL peak



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

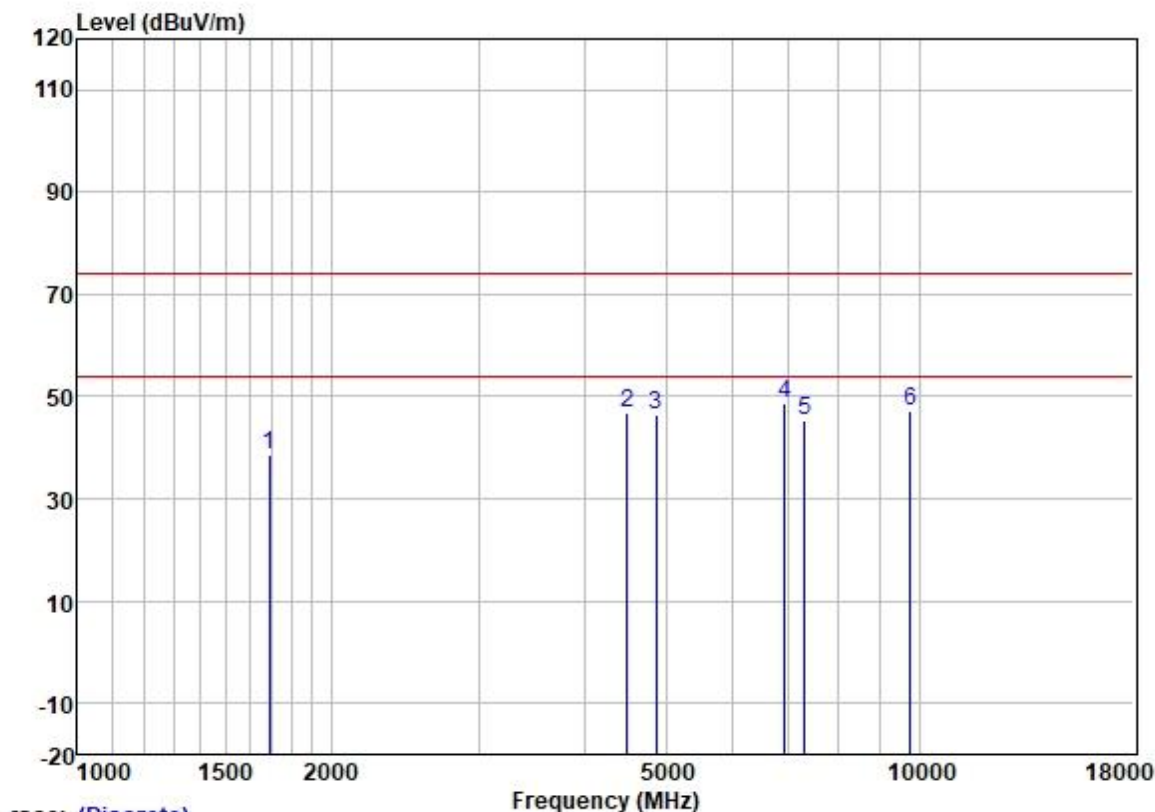


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1653.550	47.65	24.89	3.14	37.93	37.75	74.00	-36.25	HORIZONTAL peak
2	4430.628	44.87	33.87	5.36	36.83	47.27	74.00	-26.73	HORIZONTAL peak
3	4824.000	44.54	34.16	5.46	36.87	47.29	74.00	-26.71	HORIZONTAL peak
4	5209.075	49.00	33.58	5.33	36.94	50.97	74.00	-23.03	HORIZONTAL peak
5	7236.000	40.99	35.78	6.35	37.14	45.98	74.00	-28.02	HORIZONTAL peak
6	9648.000	40.07	38.70	7.89	37.02	49.64	74.00	-24.36	HORIZONTAL peak



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

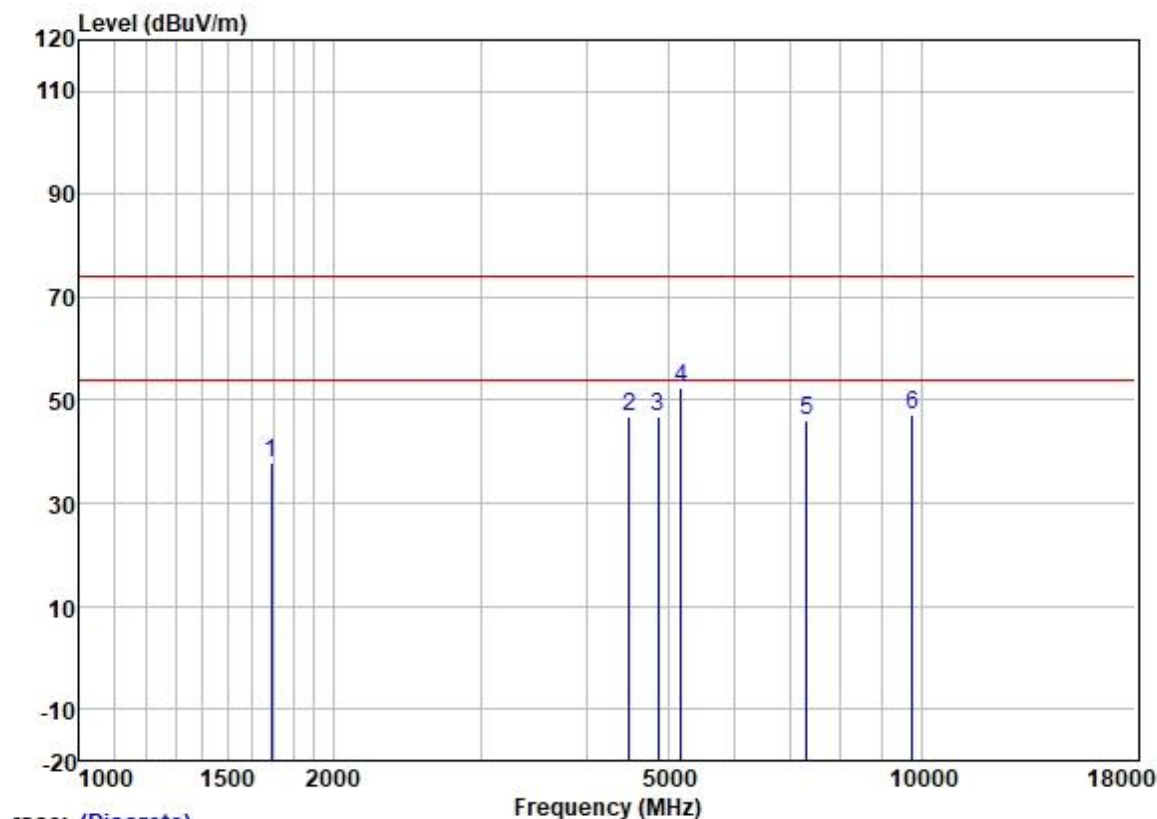


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	47.99	25.09	3.30	37.93	38.45	74.00	-35.55	VERTICAL	peak
2	4495.125	44.17	34.17	5.33	36.83	46.84	74.00	-27.16	VERTICAL	peak
3	4874.000	43.67	34.15	5.49	36.87	46.44	74.00	-27.56	VERTICAL	peak
4	6914.763	44.50	34.97	6.39	37.08	48.78	74.00	-25.22	VERTICAL	peak
5	7311.000	40.11	36.00	6.32	37.15	45.28	74.00	-28.72	VERTICAL	peak
6	9748.000	38.07	38.81	7.43	37.01	47.30	74.00	-26.70	VERTICAL	peak



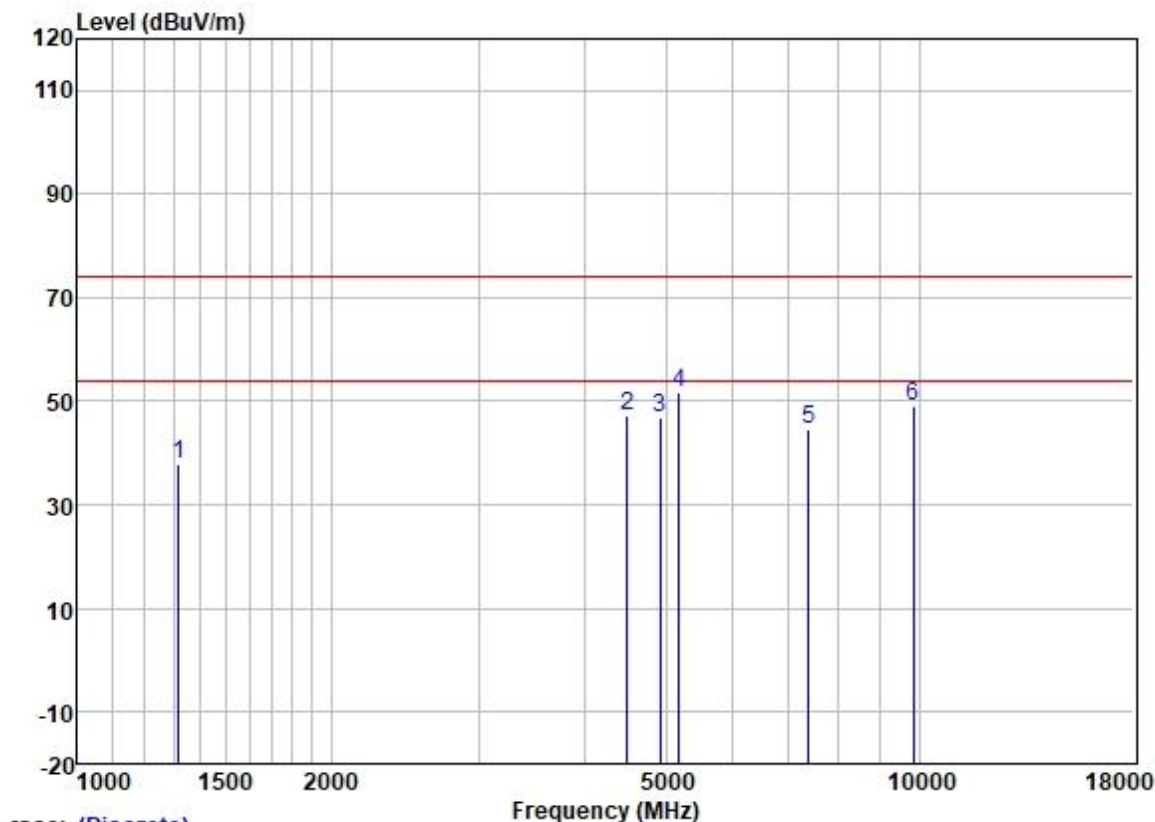
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



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	1692.231	47.57	25.09	3.30	37.93	38.03	74.00	-35.97	HORIZONTAL peak
2	4495.125	44.08	34.17	5.33	36.83	46.75	74.00	-27.25	HORIZONTAL peak
3	4874.000	44.04	34.15	5.49	36.87	46.81	74.00	-27.19	HORIZONTAL peak
4	5179.049	50.31	33.69	5.33	36.93	52.40	74.00	-21.60	HORIZONTAL peak
5	7311.000	41.07	36.00	6.32	37.15	46.24	74.00	-27.76	HORIZONTAL peak
6	9748.000	37.92	38.81	7.43	37.01	47.15	74.00	-26.85	HORIZONTAL peak

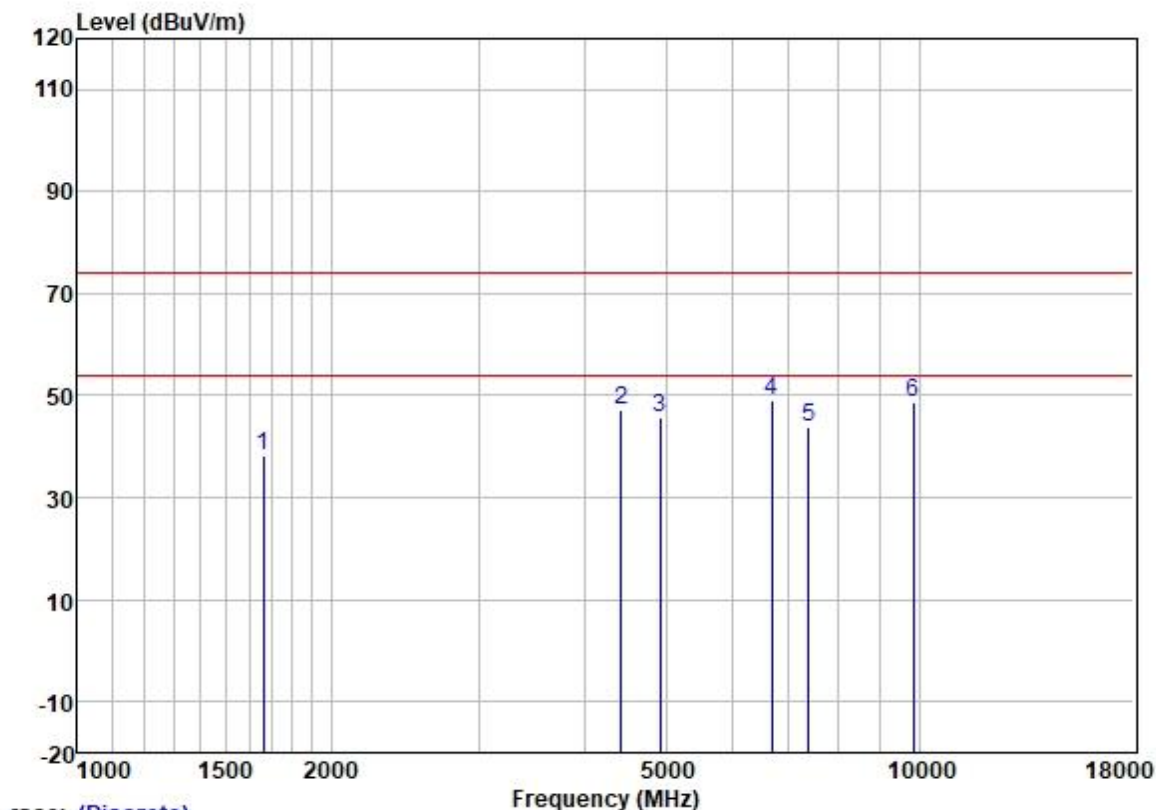
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1319.794	49.17	24.04	2.71	37.97	37.95	74.00	-36.05	VERTICAL
2	4495.125	44.70	34.17	5.33	36.83	47.37	74.00	-26.63	VERTICAL
3	4924.000	44.05	34.15	5.51	36.88	46.83	74.00	-27.17	VERTICAL
4	5179.049	49.66	33.69	5.33	36.93	51.75	74.00	-22.25	VERTICAL
5	7386.000	39.17	36.23	6.30	37.16	44.54	74.00	-29.46	VERTICAL
6	9848.000	40.02	38.88	7.06	37.01	48.95	74.00	-25.05	VERTICAL

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

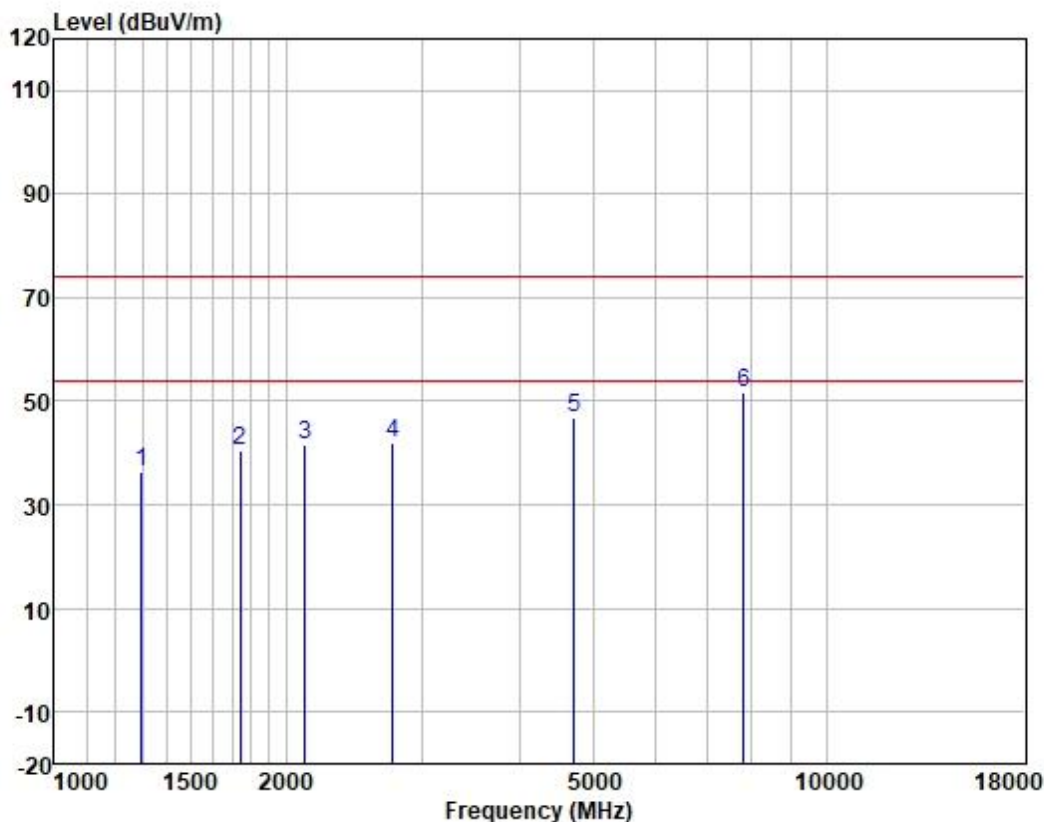


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1663.137	48.09	24.93	3.18	37.93	38.27	74.00	-35.73	HORIZONTAL peak
2	4430.628	44.61	33.87	5.36	36.83	47.01	74.00	-26.99	HORIZONTAL peak
3	4924.000	42.83	34.15	5.51	36.88	45.61	74.00	-28.39	HORIZONTAL peak
4	6679.040	45.51	34.28	6.27	37.05	49.01	74.00	-24.99	HORIZONTAL peak
5	7386.000	38.62	36.23	6.30	37.16	43.99	74.00	-30.01	HORIZONTAL peak
6	9848.000	39.83	38.88	7.06	37.01	48.76	74.00	-25.24	HORIZONTAL peak



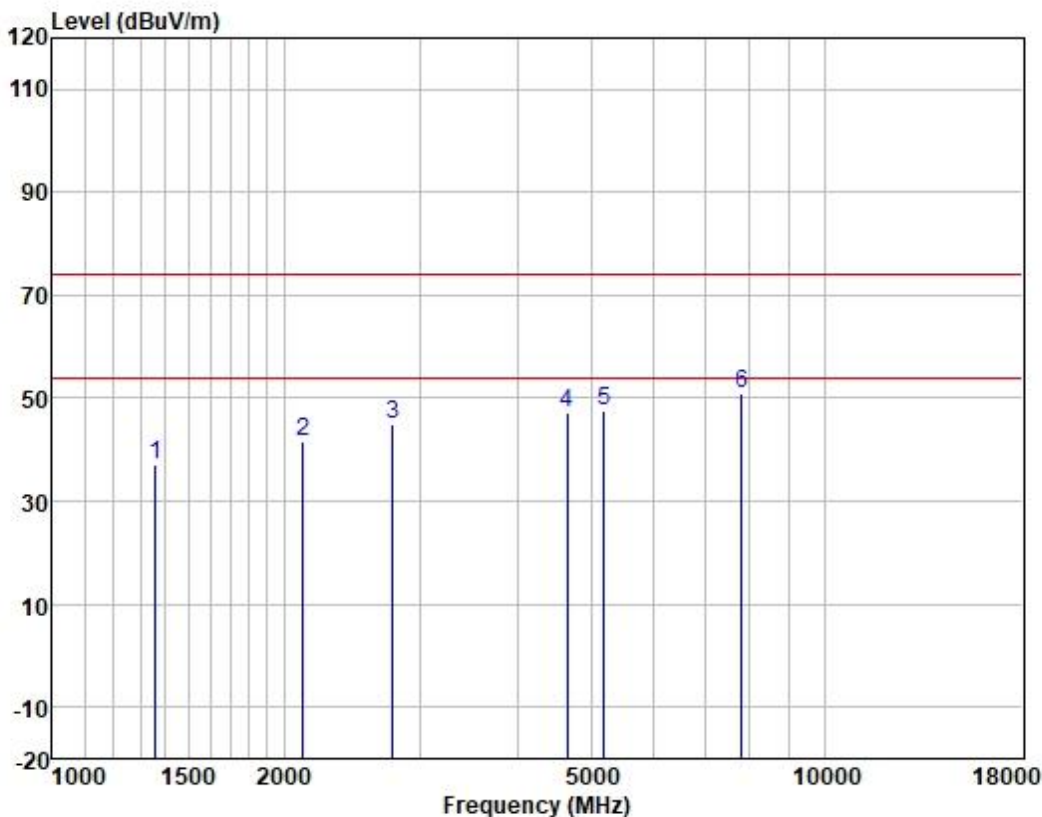
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



		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	1297.103	48.44	23.96	2.58	38.60	36.38	74.00	-37.62	VERTICAL	Peak
2	1741.856	49.96	25.50	2.93	37.98	40.41	74.00	-33.59	VERTICAL	Peak
3	2114.052	49.41	26.62	3.18	37.79	41.42	74.00	-32.58	VERTICAL	Peak
4	2742.143	47.70	28.30	3.66	37.72	41.94	74.00	-32.06	VERTICAL	Peak
5	4721.515	45.41	34.16	4.75	37.40	46.92	74.00	-27.08	VERTICAL	Peak
6	7807.262	45.88	36.92	6.15	37.20	51.75	74.00	-22.25	VERTICAL	Peak



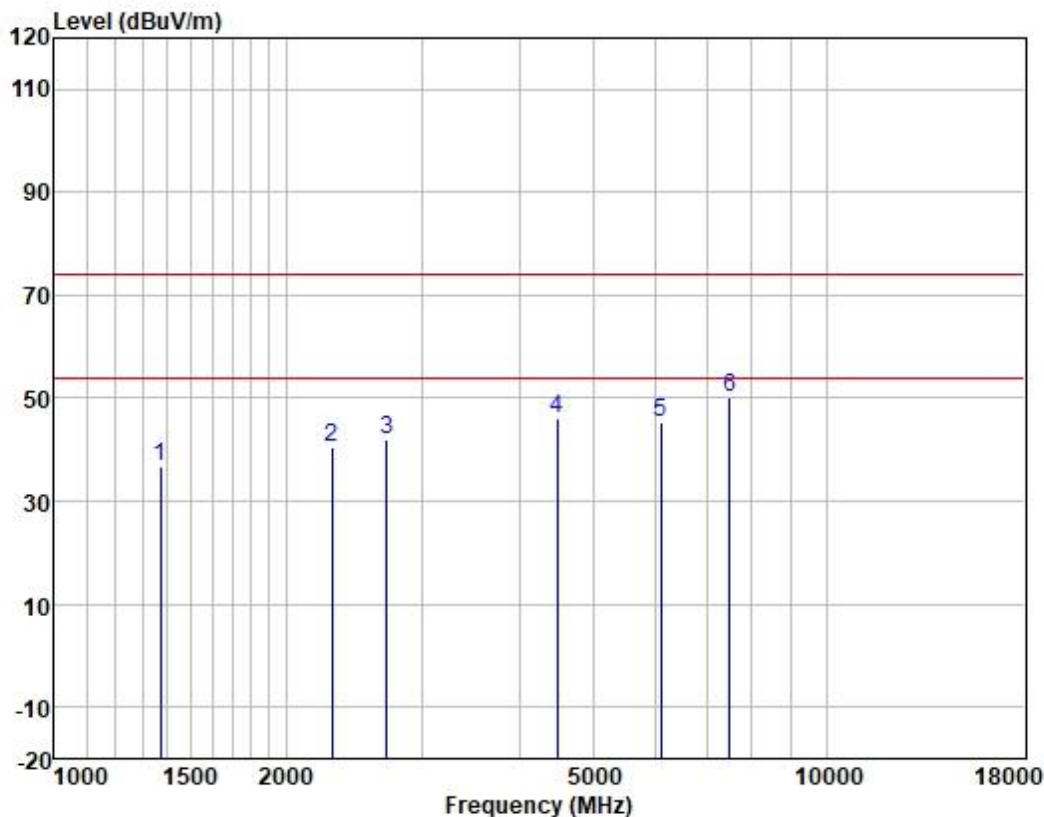
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



		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	1358.498	48.71	24.16	2.63	38.53	36.97	74.00	-37.03	HORIZONTAL	Peak
2	2114.052	49.75	26.62	3.18	37.79	41.76	74.00	-32.24	HORIZONTAL	Peak
3	2758.041	50.71	28.35	3.68	37.72	45.02	74.00	-28.98	HORIZONTAL	Peak
4	4640.339	45.77	34.17	4.69	37.42	47.21	74.00	-26.79	HORIZONTAL	Peak
5	5179.049	45.99	33.69	4.98	37.22	47.44	74.00	-26.56	HORIZONTAL	Peak
6	7807.262	45.25	36.92	6.15	37.20	51.12	74.00	-22.88	HORIZONTAL	Peak



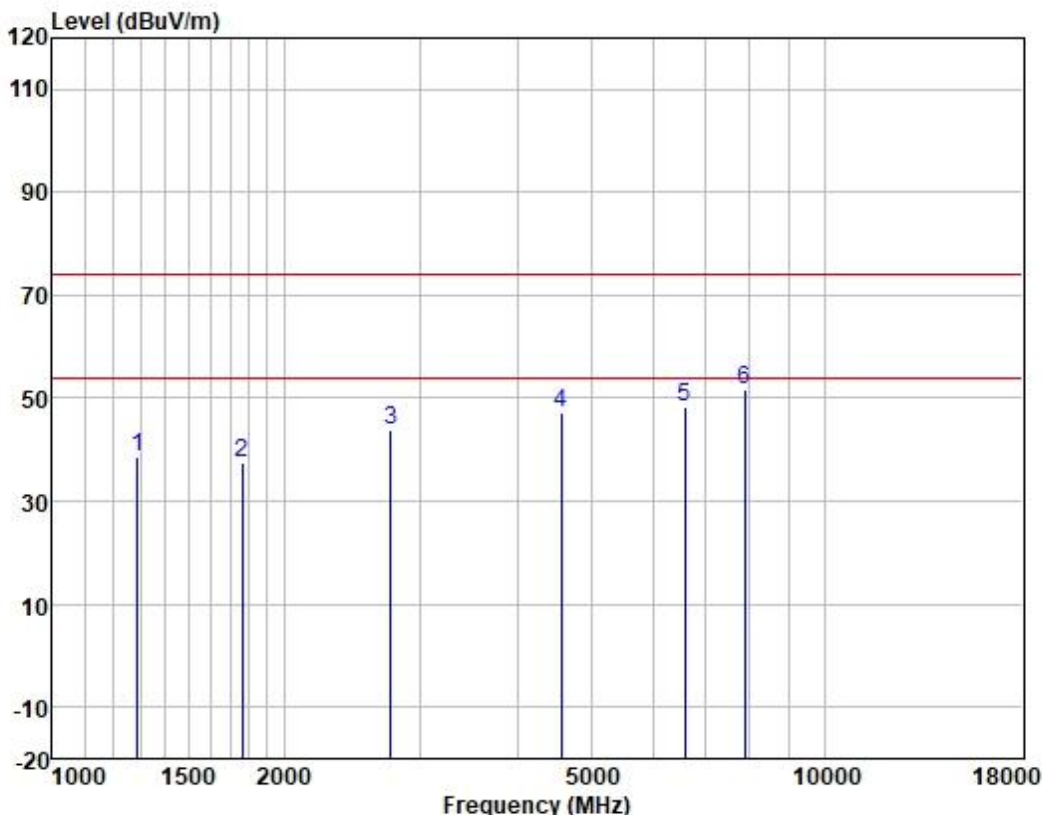
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



		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	1374.295	48.50	24.20	2.64	38.51	36.83	74.00	-37.17	VERTICAL	Peak
2	2292.257	47.33	27.43	3.38	37.78	40.36	74.00	-33.64	VERTICAL	Peak
3	2694.998	47.99	28.16	3.60	37.73	42.02	74.00	-31.98	VERTICAL	Peak
4	4482.150	44.75	34.12	4.62	37.44	46.05	74.00	-27.95	VERTICAL	Peak
5	6106.616	44.17	32.89	5.47	37.10	45.43	74.00	-28.57	VERTICAL	Peak
6	7497.646	44.95	36.45	6.03	37.19	50.24	74.00	-23.76	VERTICAL	Peak



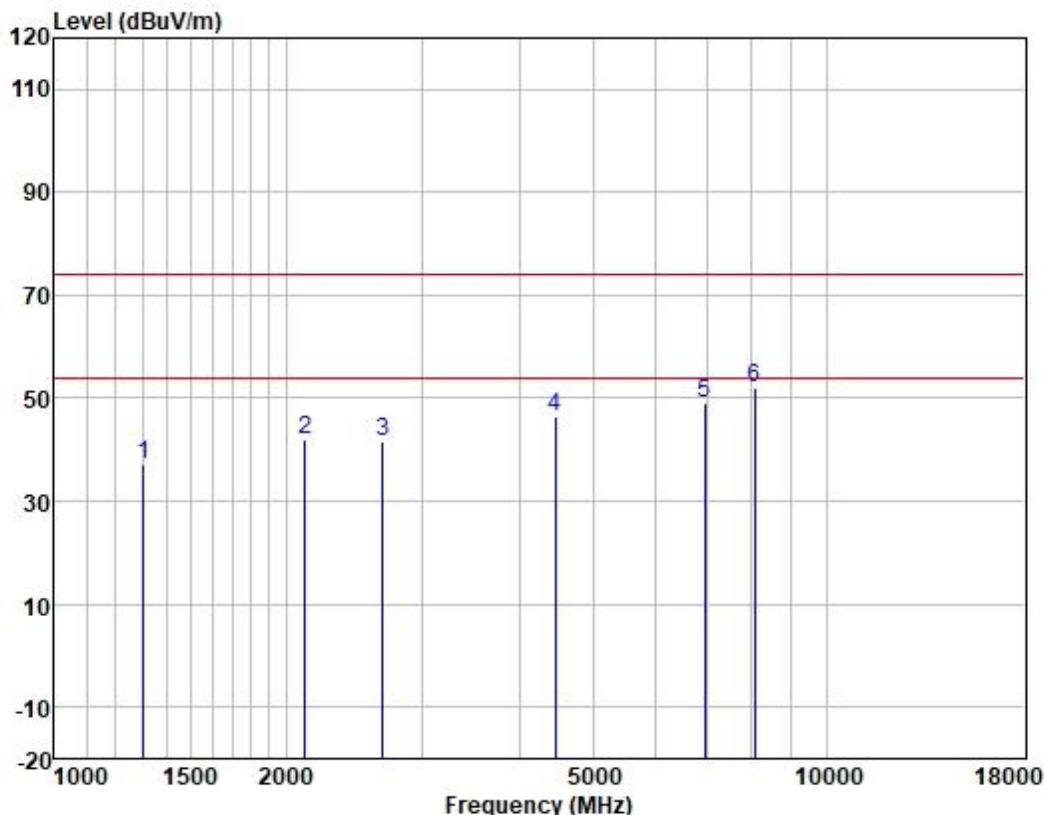
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1289.627	50.59	23.92	2.58	38.60	38.49	74.00	-35.51	HORIZONTAL Peak
2	1762.112	46.97	25.66	2.97	37.96	37.64	74.00	-36.36	HORIZONTAL Peak
3	2742.143	49.67	28.30	3.66	37.72	43.91	74.00	-30.09	HORIZONTAL Peak
4	4560.559	45.87	34.17	4.65	37.43	47.26	74.00	-26.74	HORIZONTAL Peak
5	6602.265	45.79	34.07	5.69	37.12	48.43	74.00	-25.57	HORIZONTAL Peak
6	7898.049	45.68	37.04	6.18	37.20	51.70	74.00	-22.30	HORIZONTAL Peak



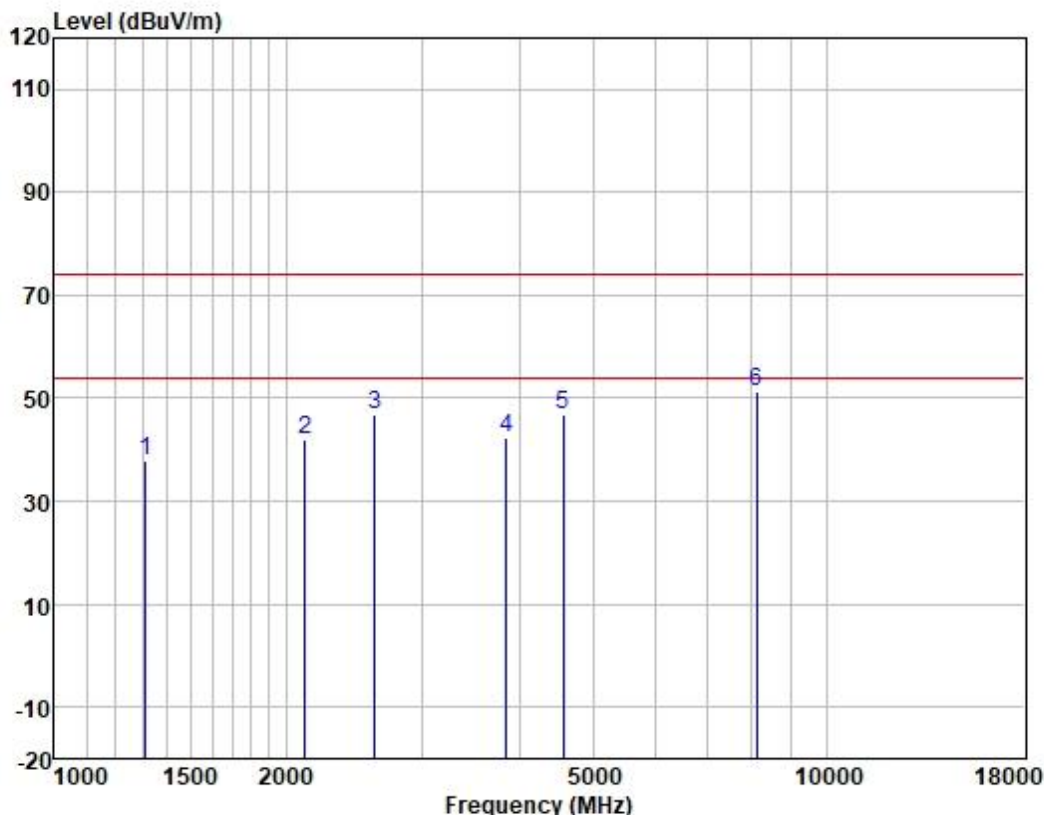
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1304.623	49.22	23.99	2.59	38.58	37.22	74.00	-36.78	VERTICAL Peak
2	2114.052	49.85	26.62	3.18	37.79	41.86	74.00	-32.14	VERTICAL Peak
3	2664.019	47.57	28.09	3.58	37.74	41.50	74.00	-32.50	VERTICAL Peak
4	4456.315	45.31	34.00	4.61	37.45	46.47	74.00	-27.53	VERTICAL Peak
5	6954.852	45.33	35.04	5.86	37.14	49.09	74.00	-24.91	VERTICAL Peak
6	8082.804	46.08	37.04	6.24	37.20	52.16	74.00	-21.84	VERTICAL Peak



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; 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	1312.187	49.88	24.02	2.60	38.58	37.92	74.00	-36.08	HORIZONTAL	Peak
2	2114.052	49.99	26.62	3.18	37.79	42.00	74.00	-32.00	HORIZONTAL	Peak
3	2603.126	52.90	27.99	3.54	37.75	46.68	74.00	-27.32	HORIZONTAL	Peak
4	3856.668	45.22	30.30	4.42	37.51	42.43	74.00	-31.57	HORIZONTAL	Peak
5	4560.559	45.46	34.17	4.65	37.43	46.85	74.00	-27.15	HORIZONTAL	Peak
6	8129.664	45.16	36.99	6.26	37.20	51.21	74.00	-22.79	HORIZONTAL	Peak



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR230500053008



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2504000515HS

- End of the Report -



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