



TEST REPORT

Application No.: GZCR2205000603HS
Applicant: R.F.E. ASIA PACIFIC LTD.
Address of Applicant: Room 2608-2609, 1 Hung To Road, Kwun Tong, Hong Kong
Manufacturer: RFE EUROPA LTD.
Address of Manufacturer: 8 Clarendon Drive, Wymbush, Milton Keynes MK8 8ED, England, United Kingdom
Factory: XIAMEN MYDO SPORTS EQUIPMENT CO., LTD
Address of Factory: 30 BANNAN ROAD, DONGFU STREET, HAICANG DISTRICT, XIAMEN, CHINA

Equipment Under Test (EUT):

EUT Name: Treadmill

Model No.: AVUS-10521-120BT, T-19x Treadmill - 120V (Bluetooth) ♣

♣

Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Trade Mark:



Standard(s) : 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2022-05-20

Date of Test: 2022-06-01 to 2022-06-24

Date of Issue: 2022-08-31

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

Kobe Jian

Kobe Jian
EMC Laboratory Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR220500060303	2022-08-31	Original

Authorized for issue by			
		Kevin Zhang	
		Kevin Zhang/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
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	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.

** : The EUT passed Conducted Emissions and Radiated Emissions (30MHz-1GHz) test after modifications.

♣Declaration of EUT Family Grouping:

Model No.: AVUS-10521-120BT, T-19x Treadmill - 120V (Bluetooth)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model designation, appearance and colour.

Therefore only one model AVUS-10521-120BT was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120-127V 60Hz
Cable(s):	About 1.8m×3 wires unscreened AC mains cable
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	2.64dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	TP-LINK	TL-WR841N	9727201635
Note Book Computer	LENOVO	Lenovo Xiaoxinchao 5000	PF0TNMG8

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)

4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

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

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



4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	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	2021-12-17	2022-12-16
EMI Test Receiver (10Hz-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
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18

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	2021-12-17	2022-12-16
EMI Test Receiver (10Hz-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
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
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	2021-07-05	2022-07-05



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement: 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 antenna is 2.64 dBi. Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

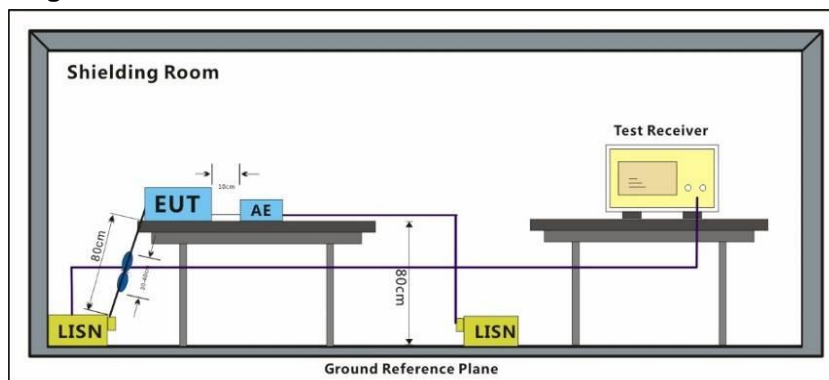
Humidity: 57.9 % RH

Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	09	Test the EUT in Wi-Fi connection to the Internet.

7.1.3 Test Setup Diagram

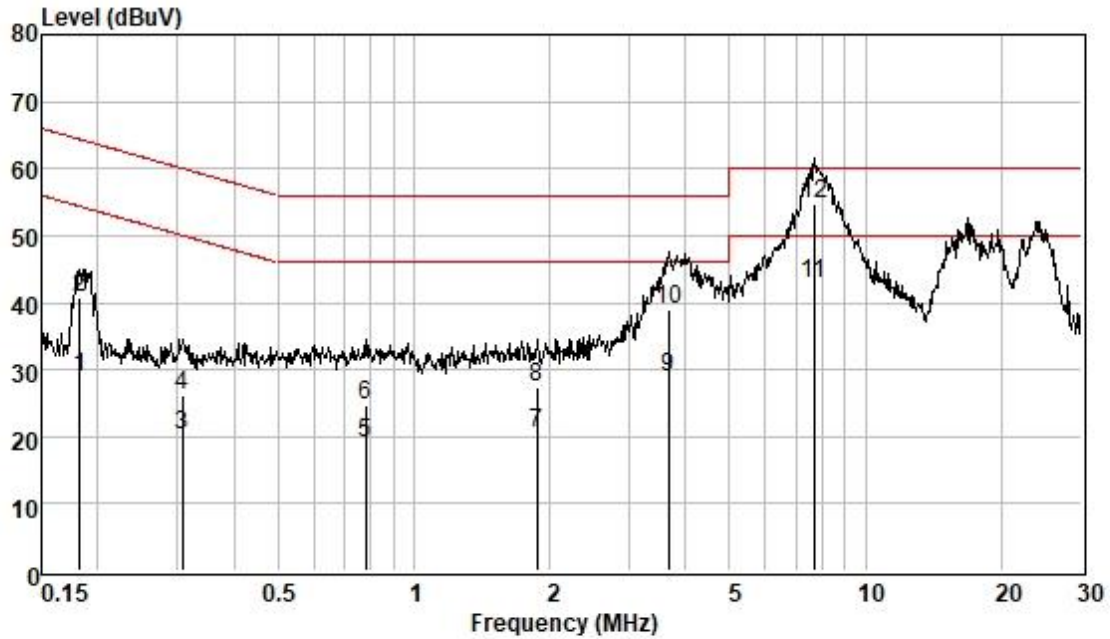


7.1.4 Measurement Procedure and Data

- 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

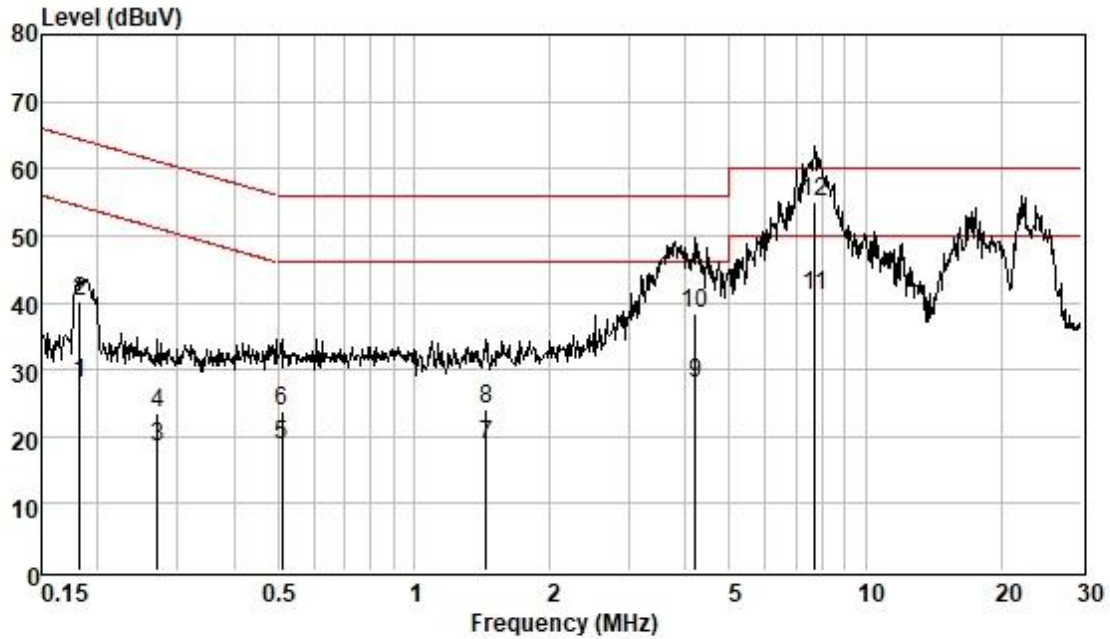
Test Mode: 09; Line: Live line



Pol : LINE
Mode :
Model :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	19.10	0.06	9.62	28.78	54.37	-25.59	Average
2	0.182	31.05	0.06	9.62	40.73	64.37	-23.64	QP
3	0.308	10.60	0.06	9.62	20.28	50.02	-29.74	Average
4	0.308	16.36	0.06	9.62	26.04	60.02	-33.98	QP
5	0.783	9.22	0.07	9.63	18.92	46.00	-27.08	Average
6	0.783	15.08	0.07	9.63	24.78	56.00	-31.22	QP
7	1.878	10.86	0.11	9.62	20.59	46.00	-25.41	Average
8	1.878	17.77	0.11	9.62	27.50	56.00	-28.50	QP
9	3.661	19.09	0.16	9.62	28.87	46.00	-17.13	Average
10	3.661	29.16	0.16	9.62	38.94	56.00	-17.06	QP
11	7.687	32.90	0.21	9.68	42.79	50.00	-7.21	Average
12	7.687	44.77	0.21	9.68	54.66	60.00	-5.34	QP

Test Mode: 09; Line: Neutral Line

Pol : NEUTRAL
Mode :
Model :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	18.24	0.06	9.55	27.85	54.37	-26.52	Average
2	0.182	30.55	0.06	9.55	40.16	64.37	-24.21	QP
3	0.272	8.78	0.06	9.55	18.39	51.07	-32.68	Average
4	0.272	13.90	0.06	9.55	23.51	61.07	-37.56	QP
5	0.510	9.03	0.07	9.55	18.65	46.00	-27.35	Average
6	0.510	14.25	0.07	9.55	23.87	56.00	-32.13	QP
7	1.449	9.13	0.10	9.55	18.78	46.00	-27.22	Average
8	1.449	14.40	0.10	9.55	24.05	56.00	-31.95	QP
9	4.202	18.27	0.17	9.56	28.00	46.00	-18.00	Average
10	4.202	28.51	0.17	9.56	38.24	56.00	-17.76	QP
11	7.728	31.34	0.21	9.58	41.13	50.00	-8.87	Average
12	7.728	45.20	0.21	9.58	54.99	60.00	-5.01	QP

7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

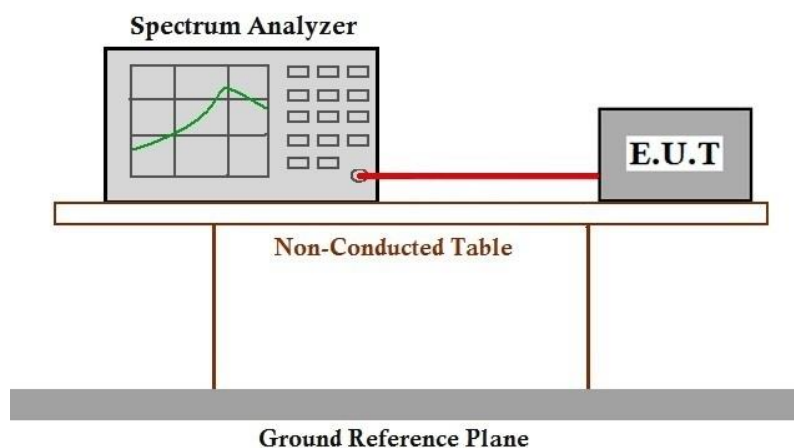
Humidity: 53.3 % RH

Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥ 500 kHz

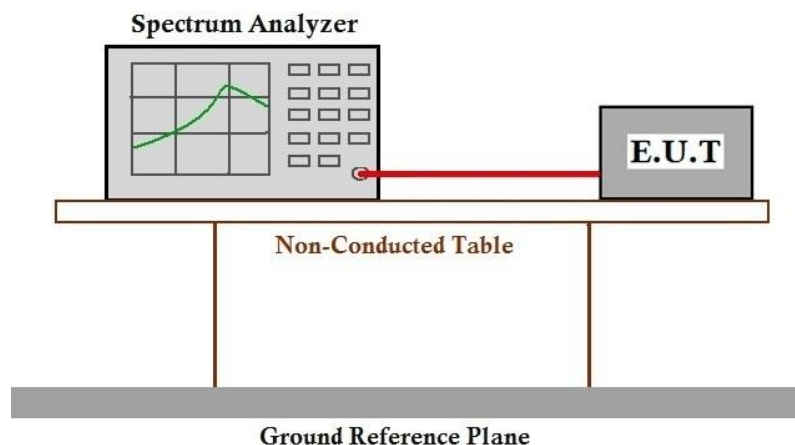
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 26.0 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2
Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission

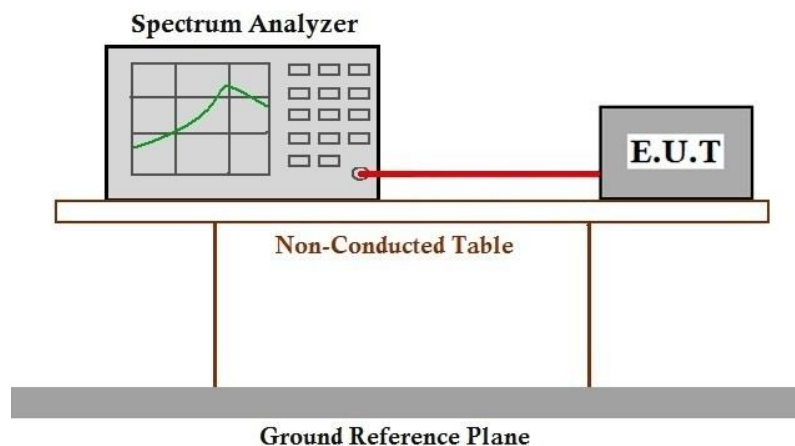
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 26.0 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2
Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

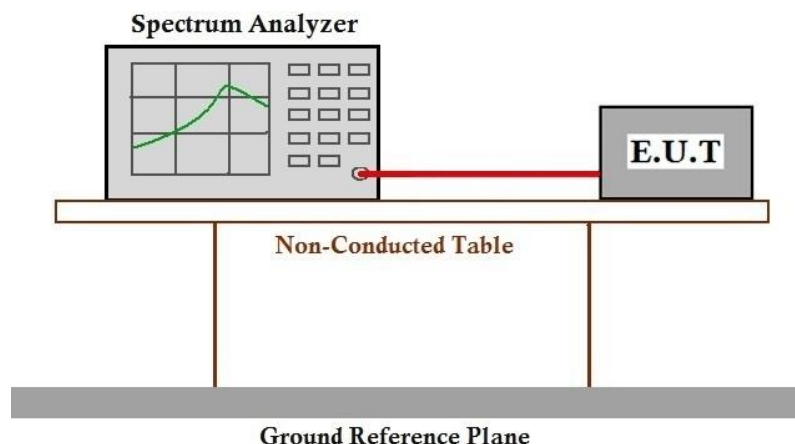
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 26.0 °C Humidity: 53.3 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C

Humidity: 53.3 % RH

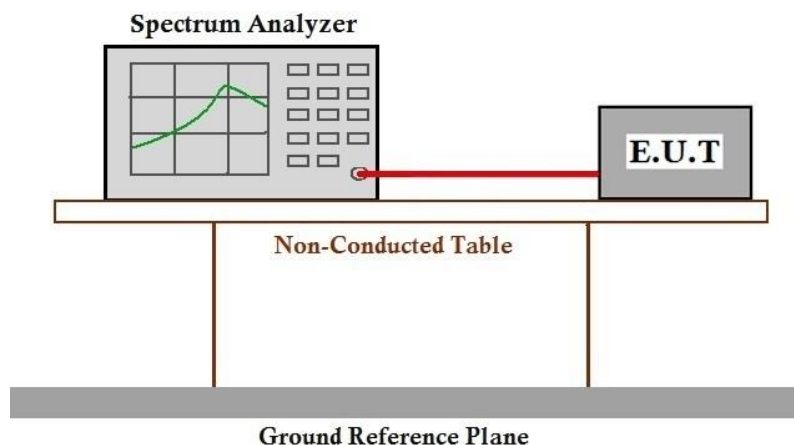
Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

Final test 02

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Test 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 60.8 % RH Atmospheric Pressure: 1005 mbar

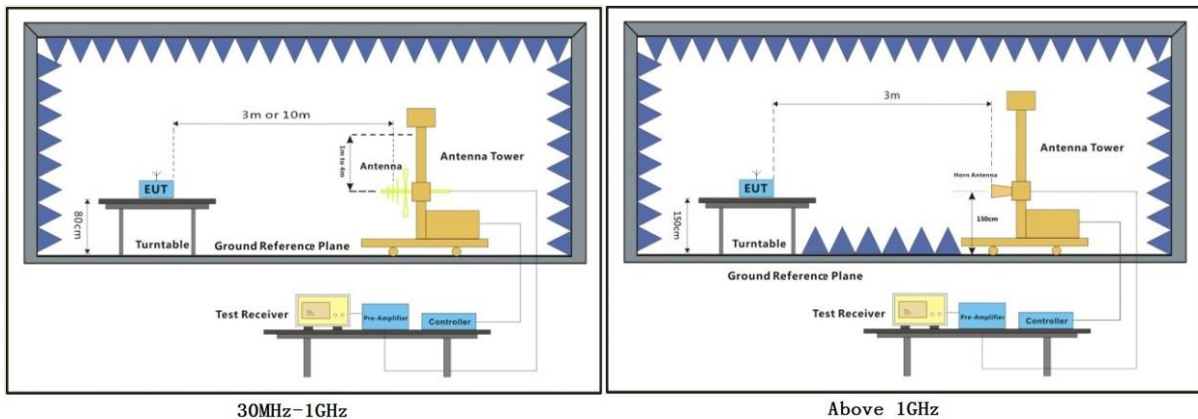
7.7.2 Test Mode Description

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

Final test 02

7.7.3 Test Setup Diagram



7.7.4 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.

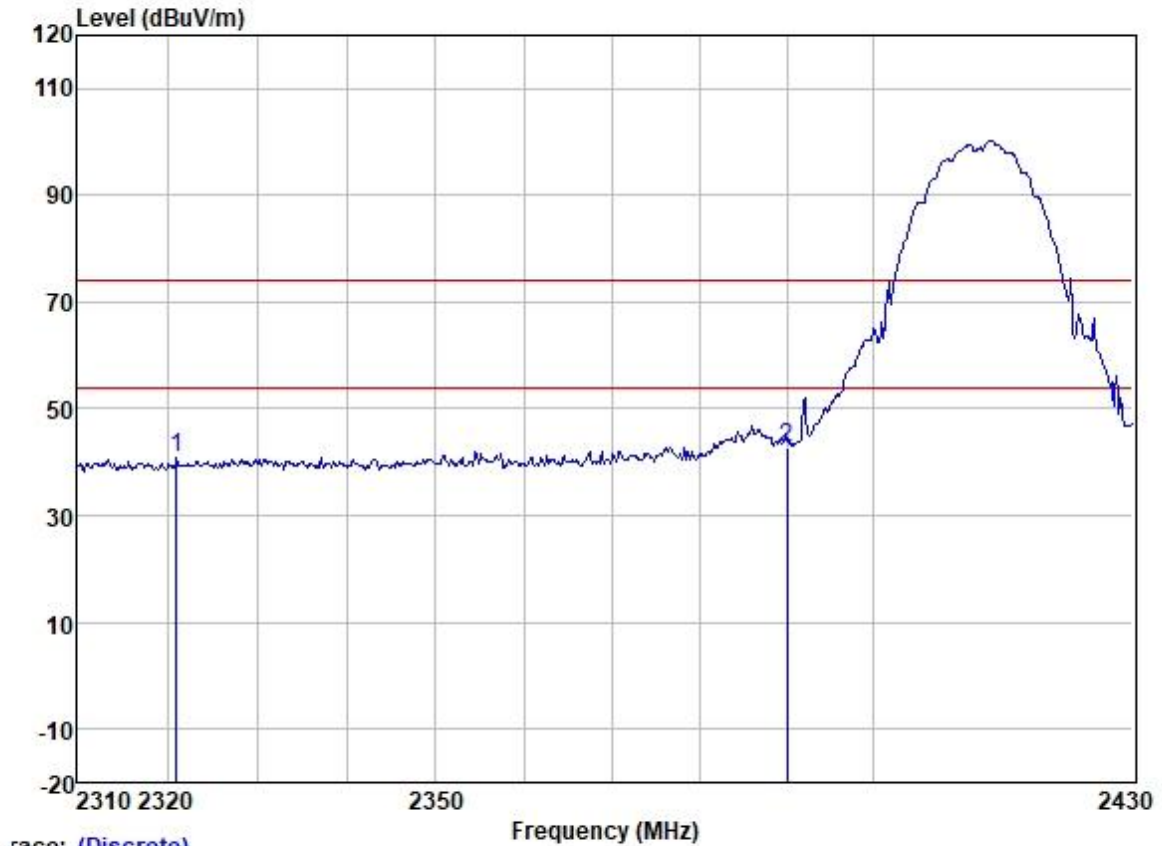
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



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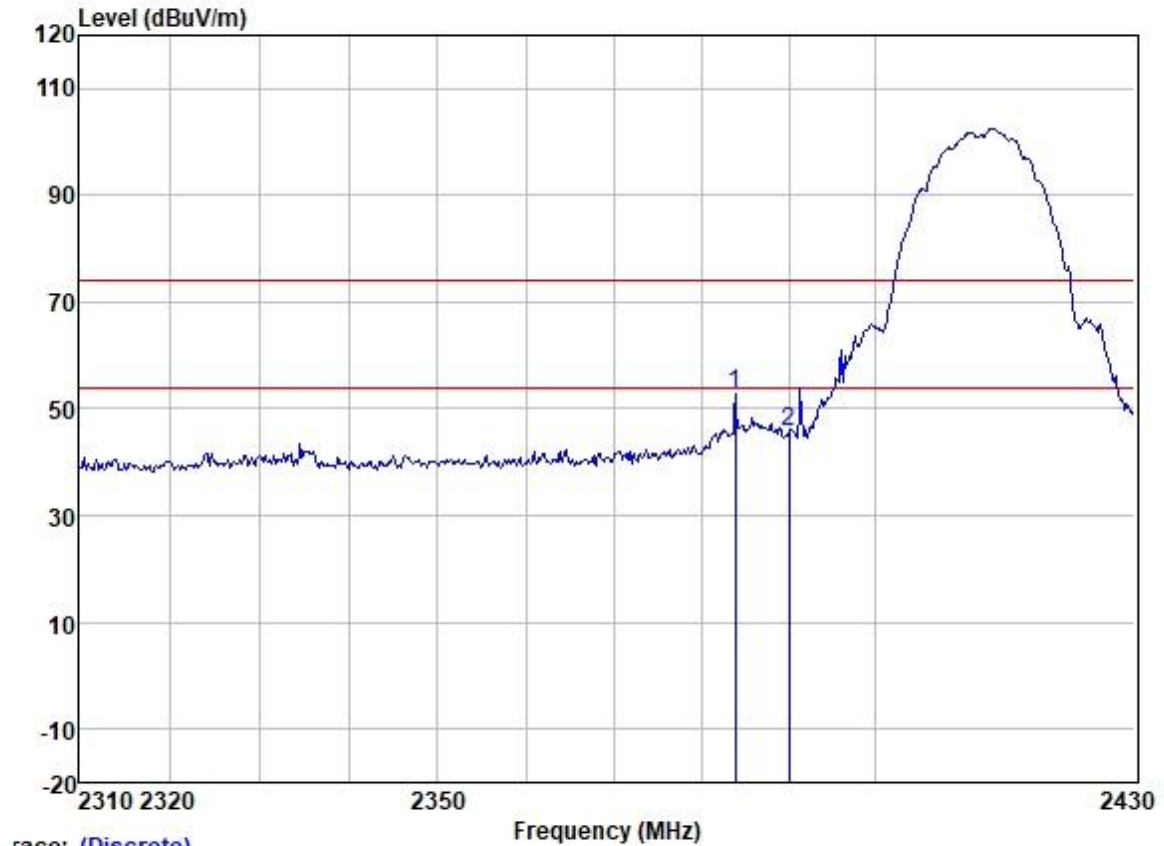
Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2321.023	47.55	27.17	3.33	37.15	40.90	-33.10	VERTICAL	Peak
2	2390.000	49.22	27.33	3.48	37.14	42.89	-31.11	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



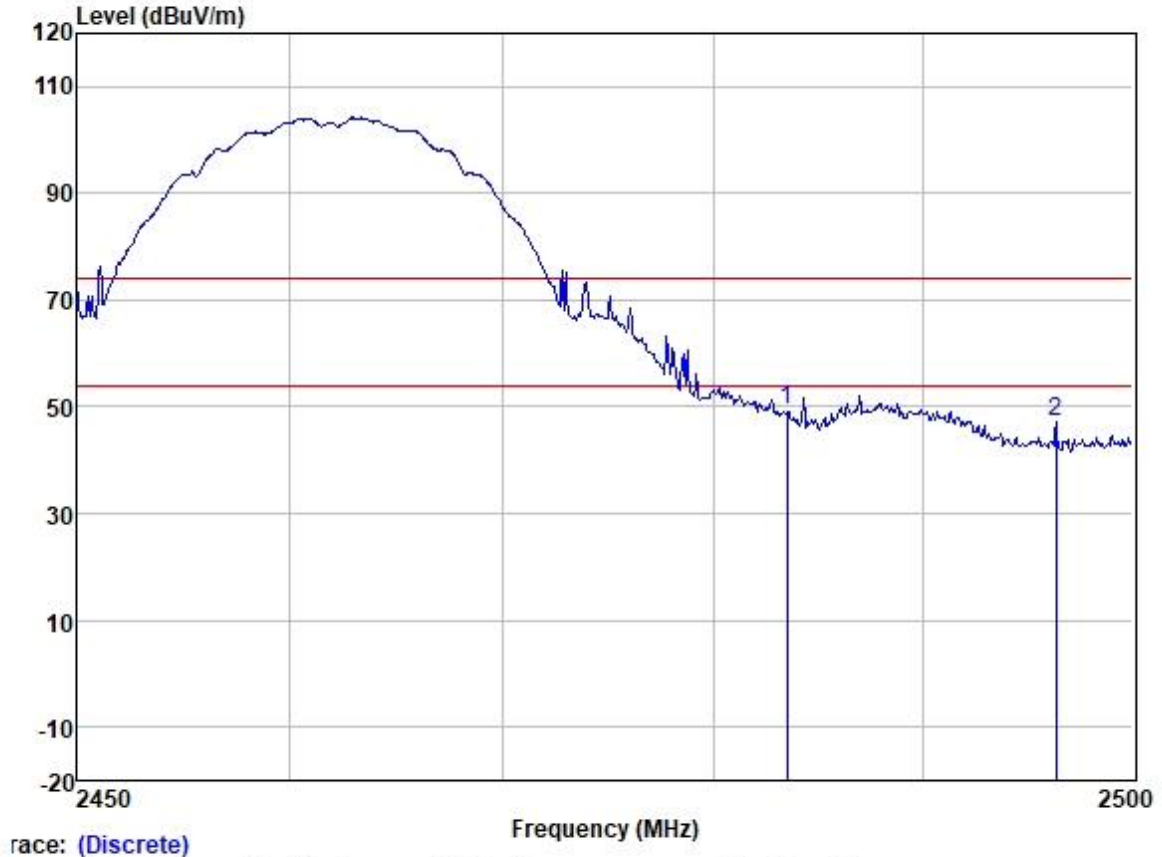
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2383.803	59.28	27.33	3.48	37.14	52.95	74.00	-21.05	HORIZONTAL	Peak
2	2390.000	52.21	27.33	3.48	37.14	45.88	74.00	-28.12	HORIZONTAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



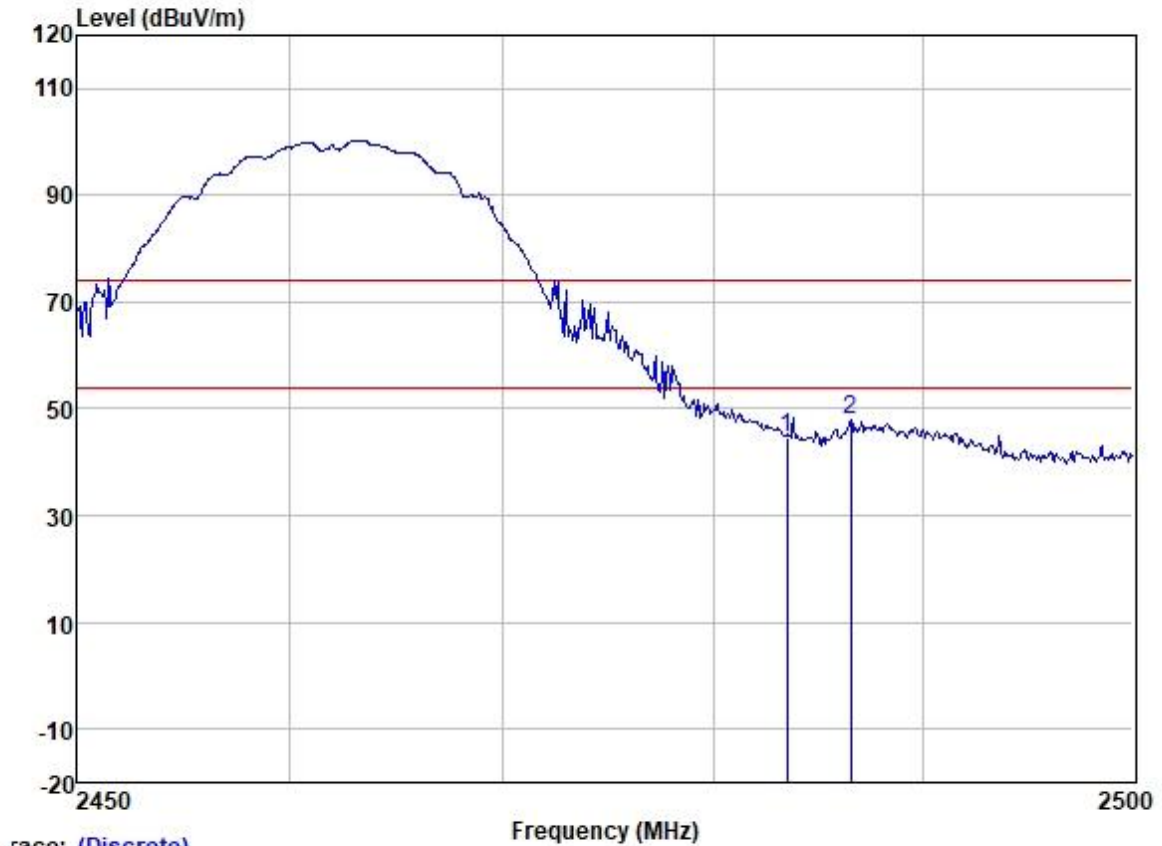
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	55.38	27.48	3.53	37.13	49.26	74.00	-24.74	VERTICAL	Peak
2	2496.316	53.35	27.50	3.40	37.12	47.13	74.00	-26.87	VERTICAL	Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

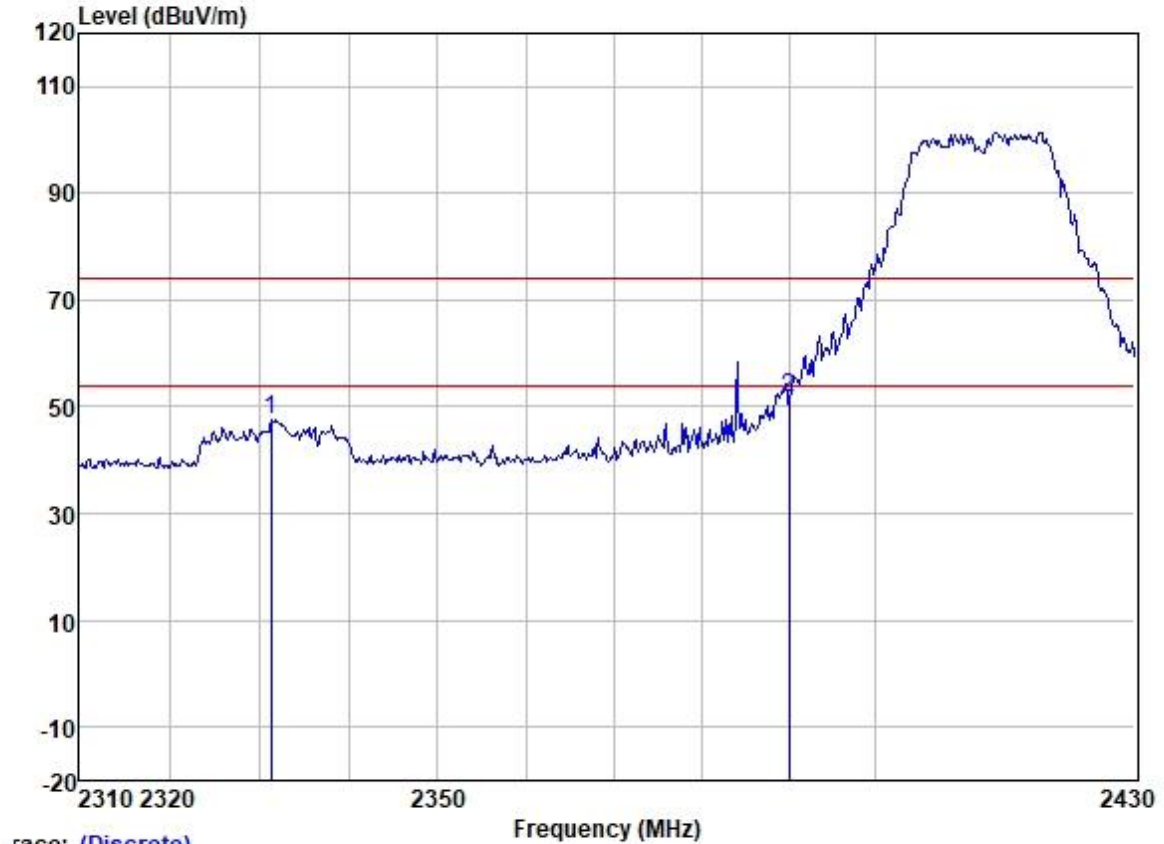
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	50.53	27.48	3.53	37.13	44.41	74.00	-29.59	HORIZONTAL	Peak
2	2486.551	54.24	27.48	3.53	37.13	48.12	74.00	-25.88	HORIZONTAL	Peak



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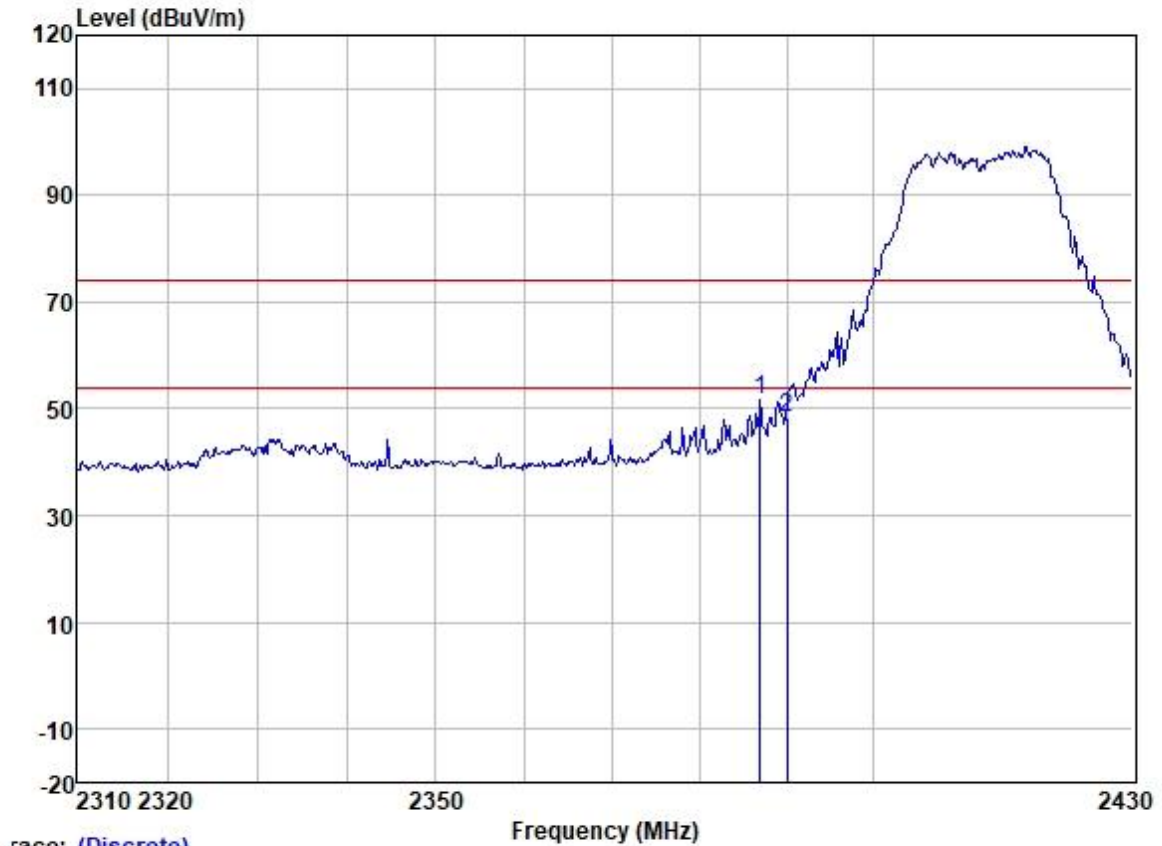
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2331.390	54.03	27.20	3.36	37.15	47.44	74.00	-26.56	VERTICAL	Peak
2	2390.000	58.13	27.33	3.48	37.14	51.80	74.00	-22.20	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

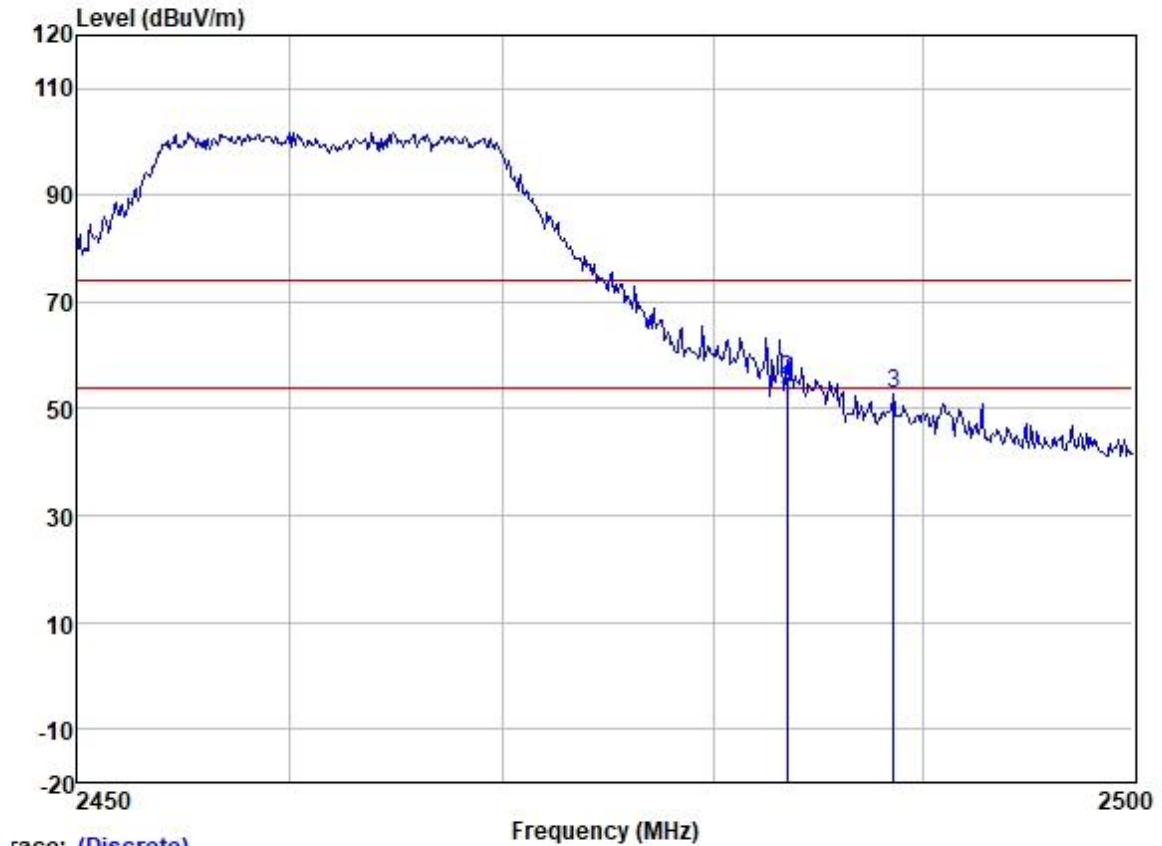
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2386.944	57.95	27.33	3.48	37.14	51.62	74.00	-22.38	HORIZONTAL	Peak
2	2390.000	54.68	27.33	3.48	37.14	48.35	74.00	-25.65	HORIZONTAL	Peak



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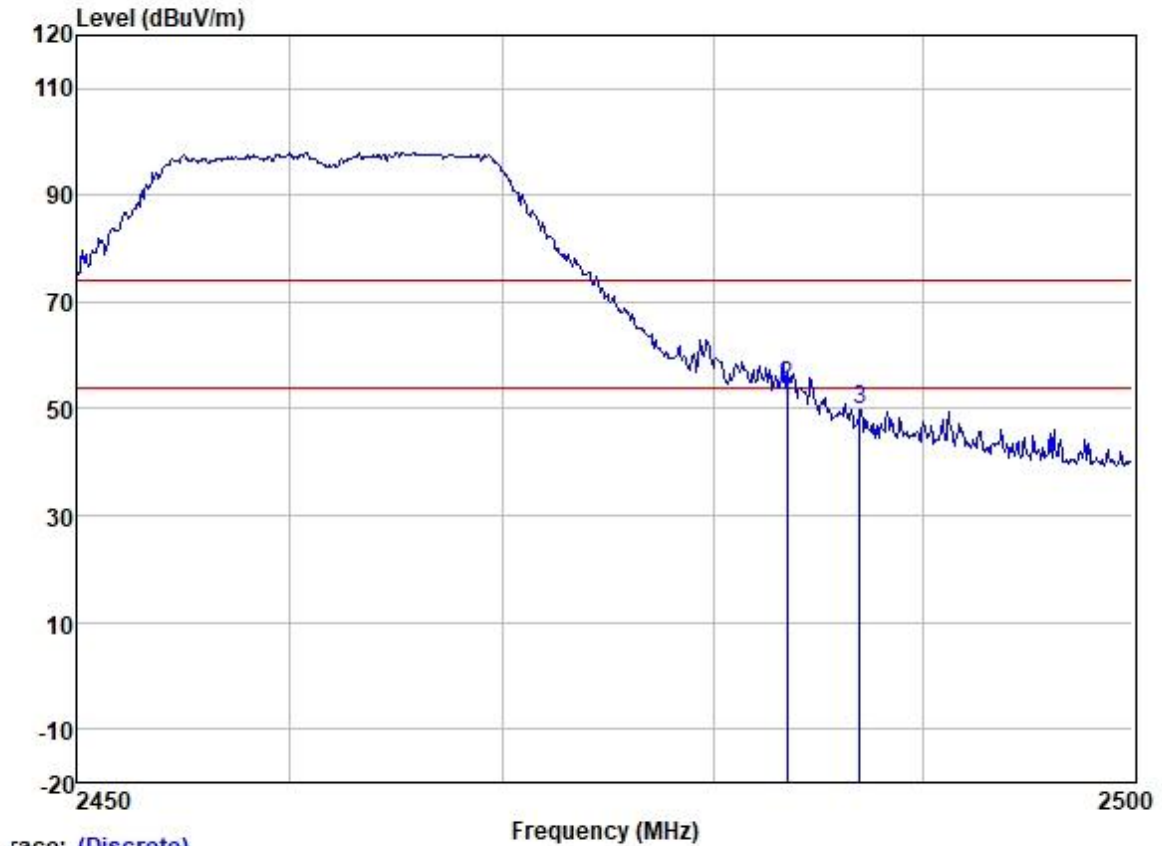
Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	57.60	27.48	3.53	37.13	51.48	54.00	-2.52	VERTICAL	Average
2	2483.500	61.37	27.48	3.53	37.13	55.25	74.00	-18.75	VERTICAL	Peak
3	2488.561	58.97	27.48	3.53	37.12	52.86	74.00	-21.14	VERTICAL	Peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

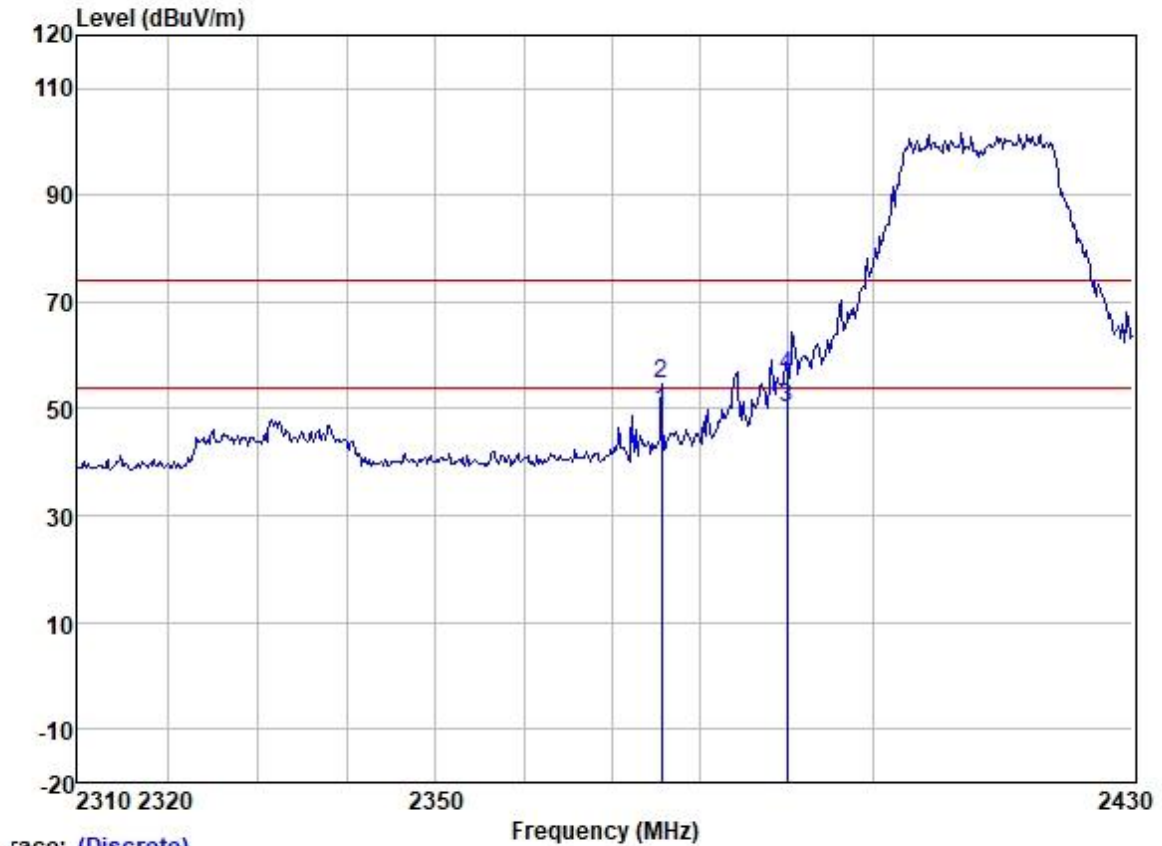
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	57.30	27.48	3.53	37.13	51.18	54.00	-2.82	HORIZONTAL	Average
2	2483.500	60.24	27.48	3.53	37.13	54.12	74.00	-19.88	HORIZONTAL	Peak
3	2486.953	55.85	27.48	3.53	37.13	49.73	74.00	-24.27	HORIZONTAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

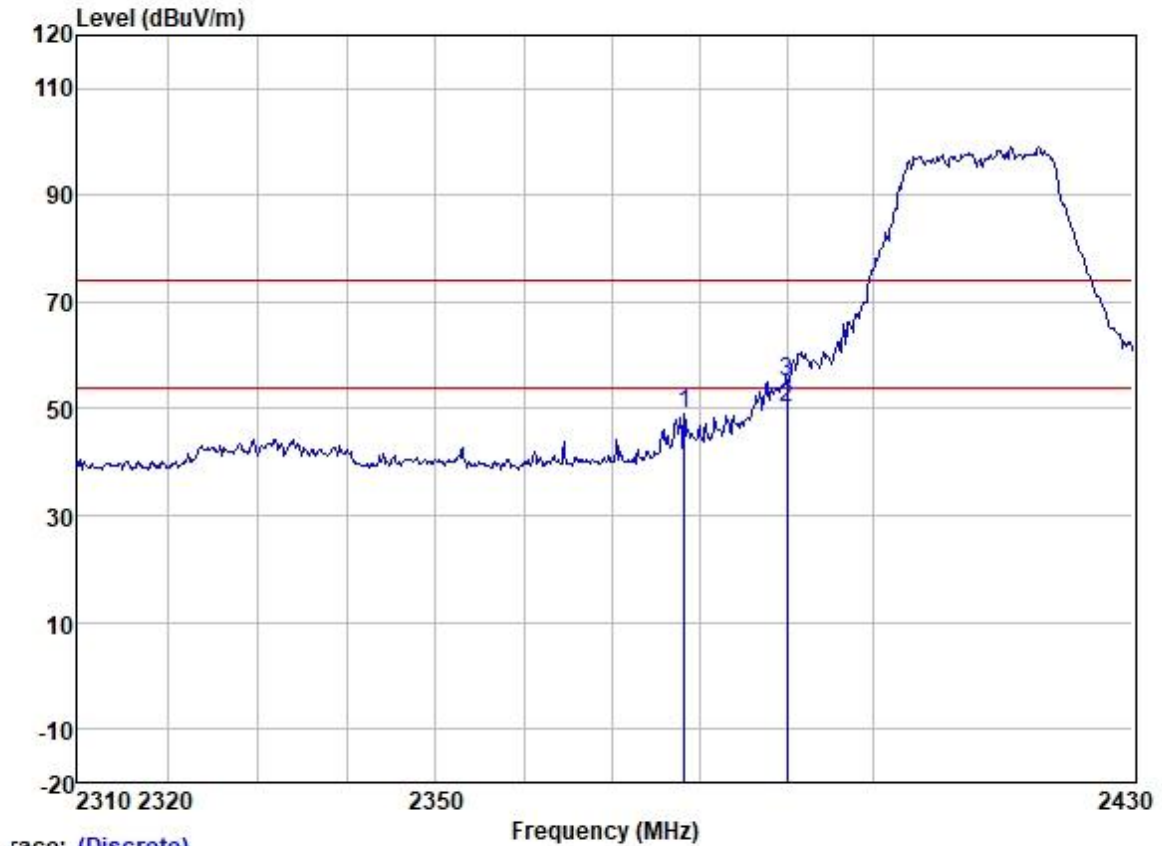
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2375.608	55.84	27.30	3.45	37.14	49.45	54.00	-4.55	VERTICAL Average
2	2375.608	61.01	27.30	3.45	37.14	54.62	74.00	-19.38	VERTICAL Peak
3	2390.000	56.50	27.33	3.48	37.14	50.17	54.00	-3.83	VERTICAL Average
4	2390.000	62.48	27.33	3.48	37.14	56.15	74.00	-17.85	VERTICAL Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

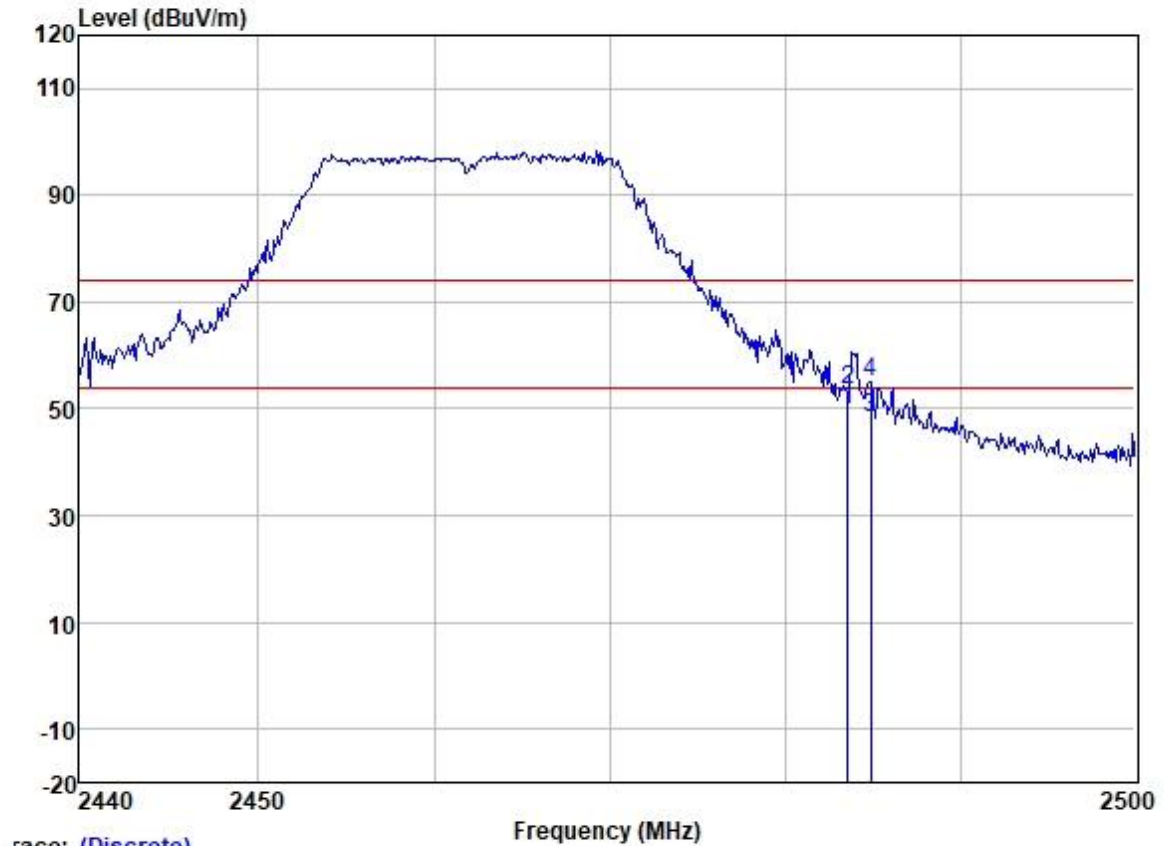
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2378.257	55.62	27.31	3.46	37.14	49.25	74.00	-24.75	HORIZONTAL	Peak
2	2390.000	56.57	27.33	3.48	37.14	50.24	54.00	-3.76	HORIZONTAL	Average
3	2390.000	61.21	27.33	3.48	37.14	54.88	74.00	-19.12	HORIZONTAL	Peak



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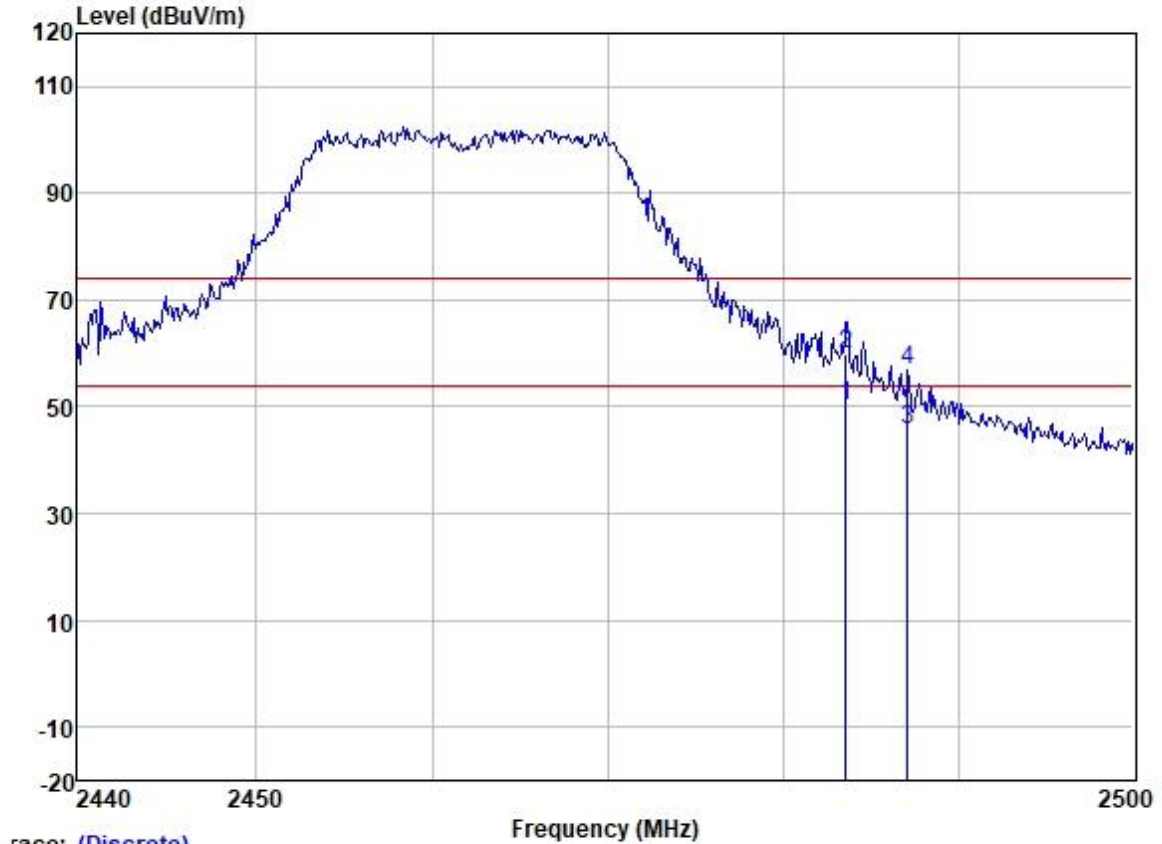
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	2483.500	56.03	27.48	3.53	37.13	49.91	54.00	-4.09	VERTICAL	Average
2	2483.500	59.52	27.48	3.53	37.13	53.40	74.00	-20.60	VERTICAL	Peak
3	2484.863	54.36	27.48	3.53	37.13	48.24	54.00	-5.76	VERTICAL	Average
4	2484.863	61.22	27.48	3.53	37.13	55.10	74.00	-18.90	VERTICAL	Peak

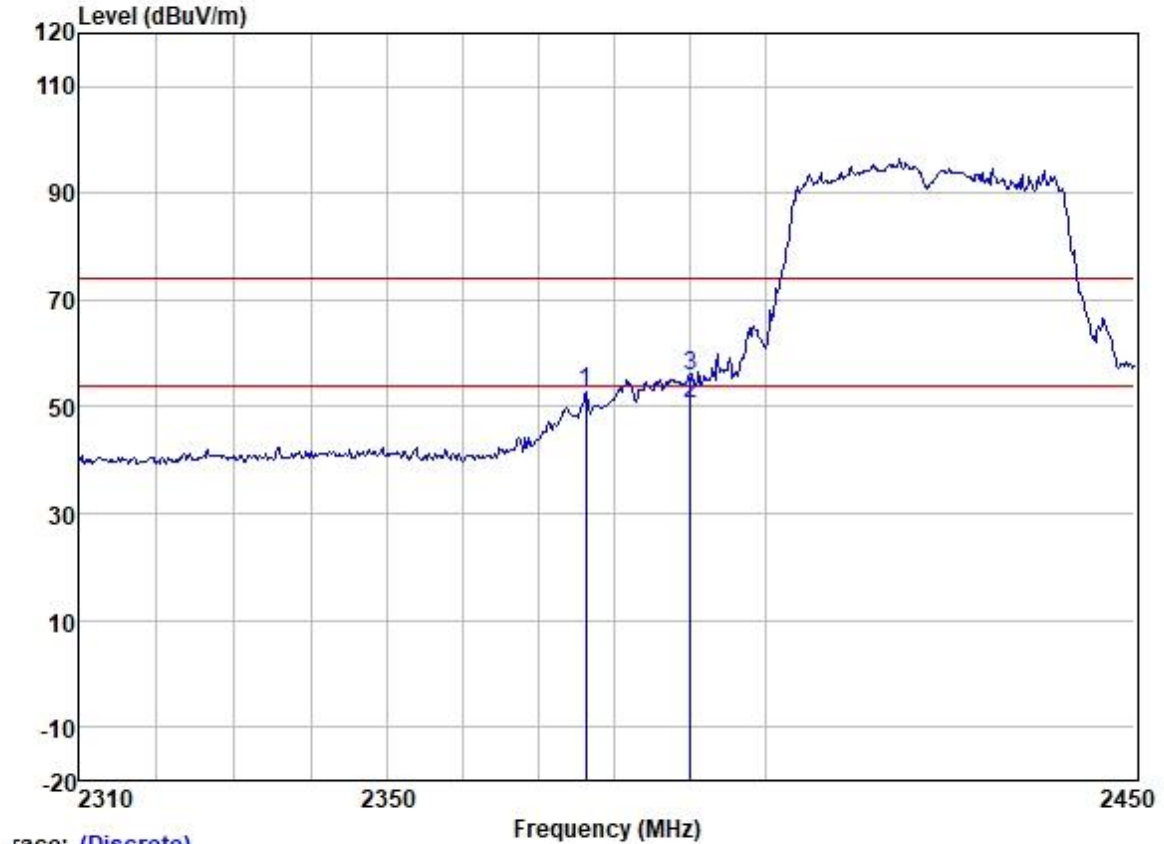
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	56.30	27.48	3.53	37.13	50.18	54.00	-3.82	HORIZONTAL	Average
2	2483.500	65.87	27.48	3.53	37.13	59.75	74.00	-14.25	HORIZONTAL	Peak
3	2487.037	51.74	27.48	3.53	37.13	45.62	54.00	-8.38	HORIZONTAL	Average
4	2487.037	62.94	27.48	3.53	37.13	56.82	74.00	-17.18	HORIZONTAL	Peak

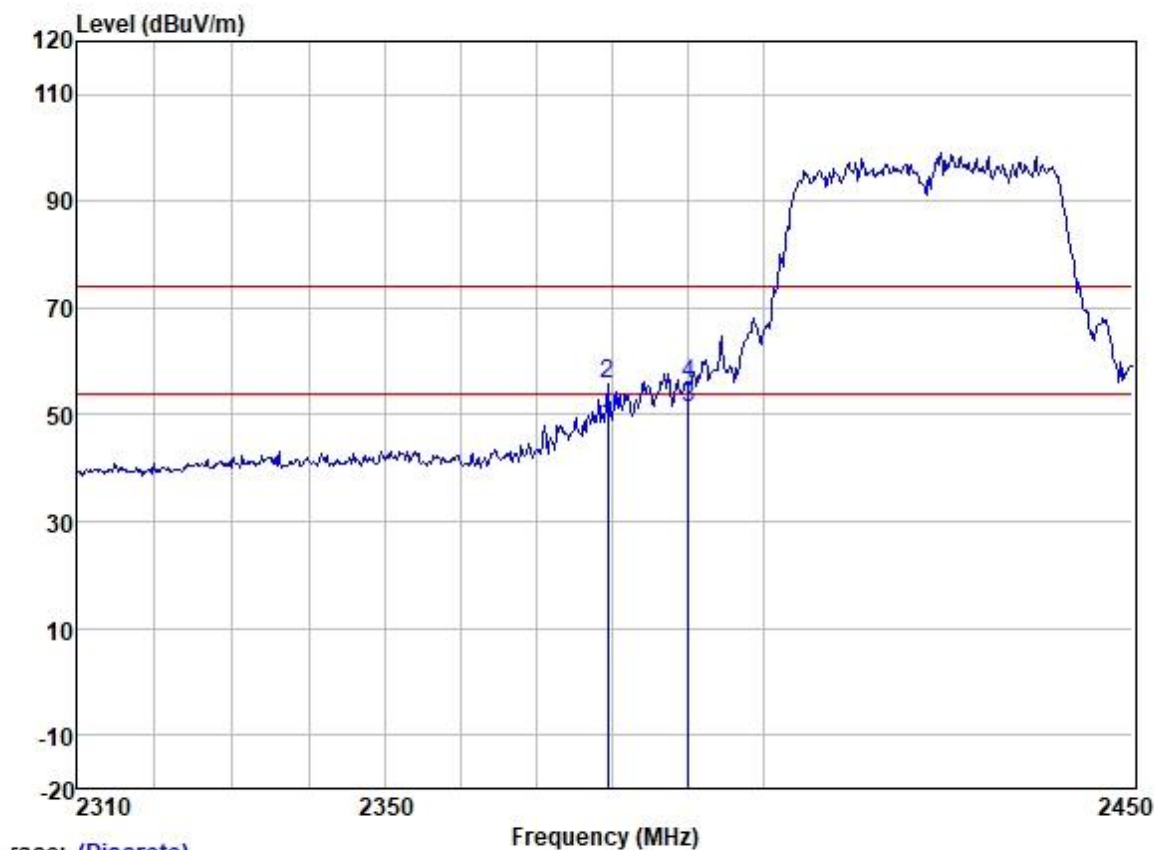
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2376.172	59.07	27.30	3.45	37.14	52.68	74.00	-21.32	VERTICAL	Peak
2	2390.000	56.83	27.33	3.48	37.14	50.50	54.00	-3.50	VERTICAL	Average
3	2390.000	62.21	27.33	3.48	37.14	55.88	74.00	-18.12	VERTICAL	Peak

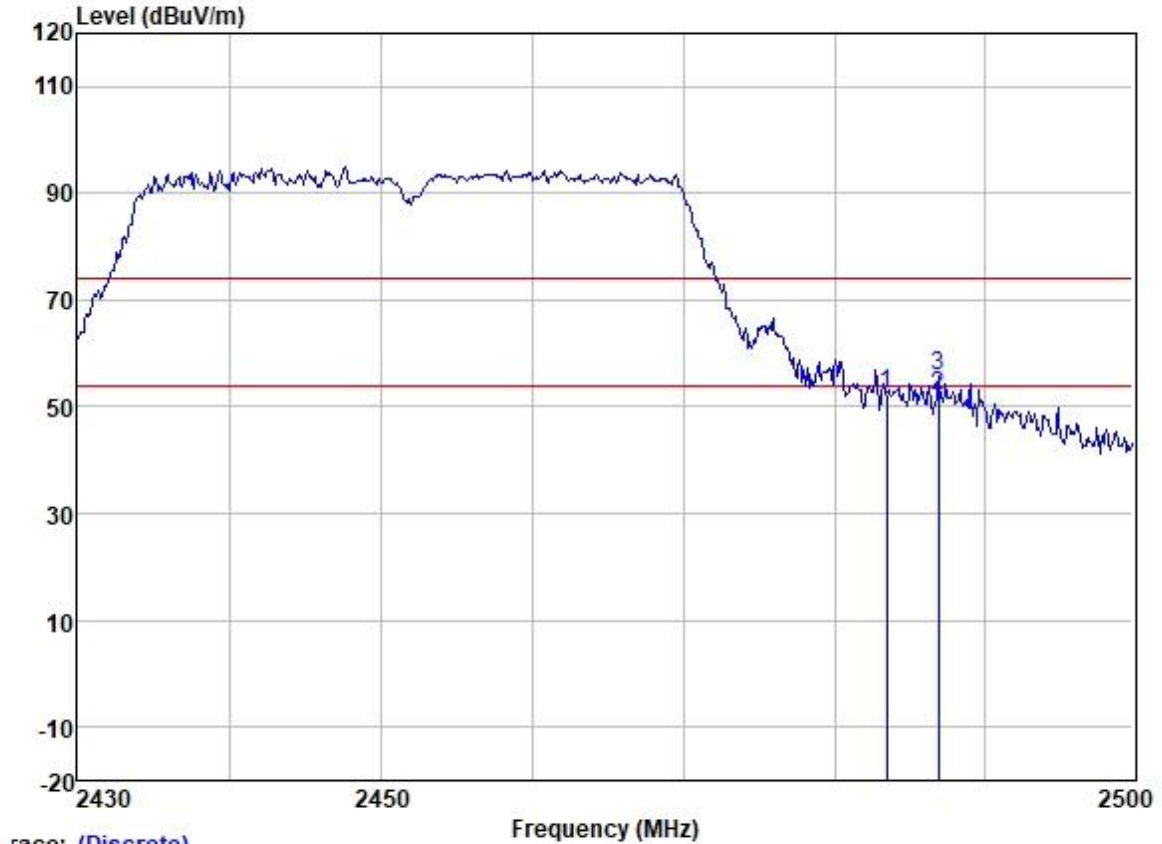
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2379.250	54.38	27.31	3.46	37.14	48.01	54.00	-5.99	HORIZONTAL	Average
2	2379.250	61.97	27.31	3.46	37.14	55.60	74.00	-18.40	HORIZONTAL	Peak
3	2390.000	57.50	27.33	3.48	37.14	51.17	54.00	-2.83	HORIZONTAL	Average
4	2390.000	62.06	27.33	3.48	37.14	55.73	74.00	-18.27	HORIZONTAL	Peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

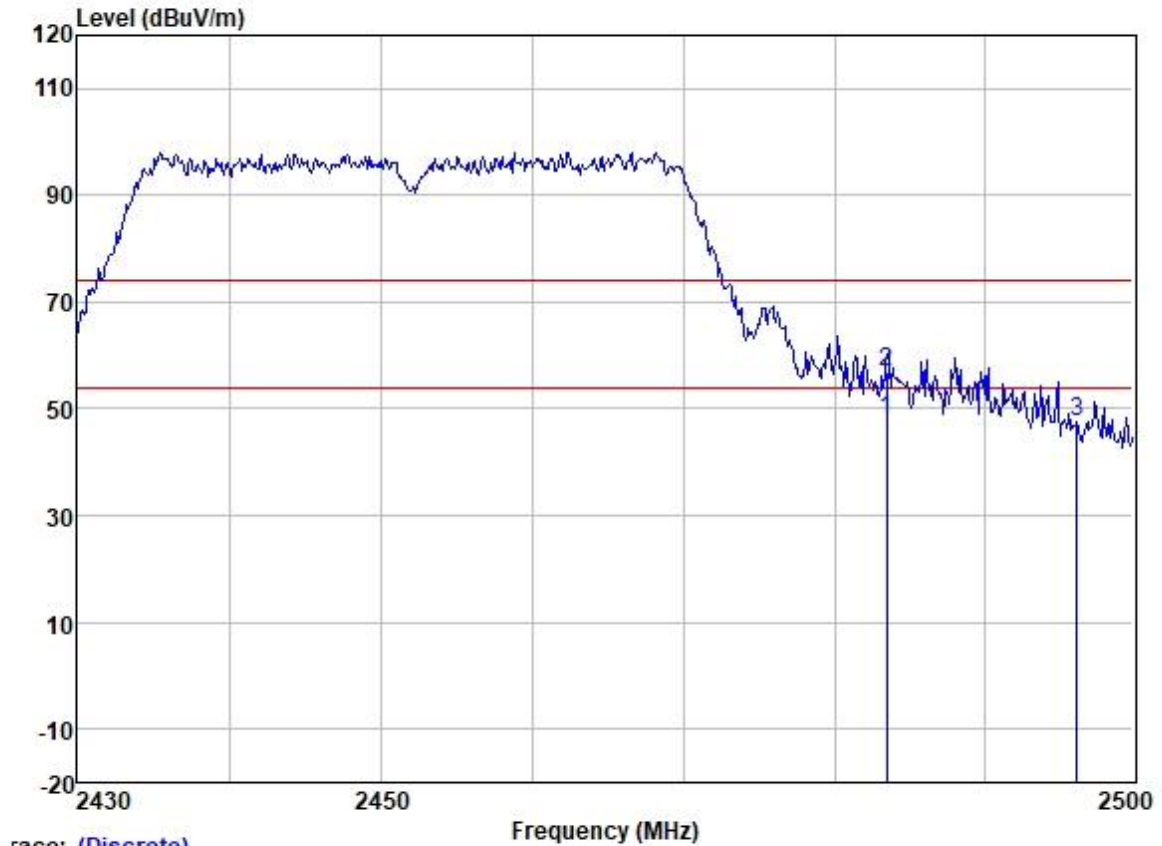
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	58.70	27.48	3.53	37.13	52.58	74.00	-21.42	VERTICAL	Peak
2	2486.970	58.15	27.48	3.53	37.13	52.03	54.00	-1.97	VERTICAL	Average
3	2486.970	62.06	27.48	3.53	37.13	55.94	74.00	-18.06	VERTICAL	Peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	53.97	27.48	3.53	37.13	47.85	54.00	-6.15	HORIZONTAL	Average
2	2483.500	63.06	27.48	3.53	37.13	56.94	74.00	-17.06	HORIZONTAL	Peak
3	2496.240	53.64	27.49	3.47	37.12	47.48	74.00	-26.52	HORIZONTAL	Peak



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7.8 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

Test Distance: 3 m

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
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 61.4 % RH

Atmospheric Pressure: 1005 mbar

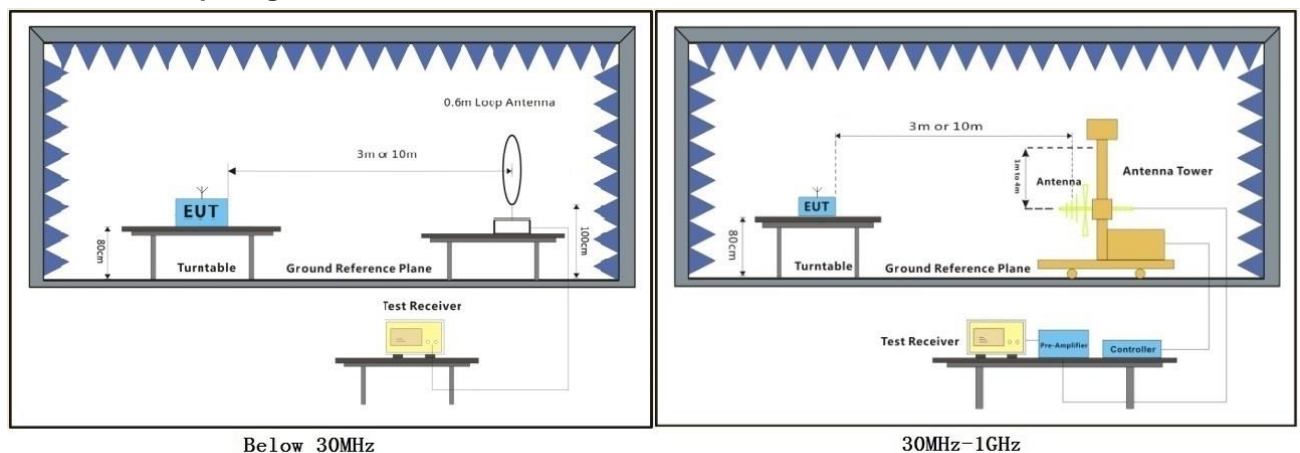
7.8.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 02

TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 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:

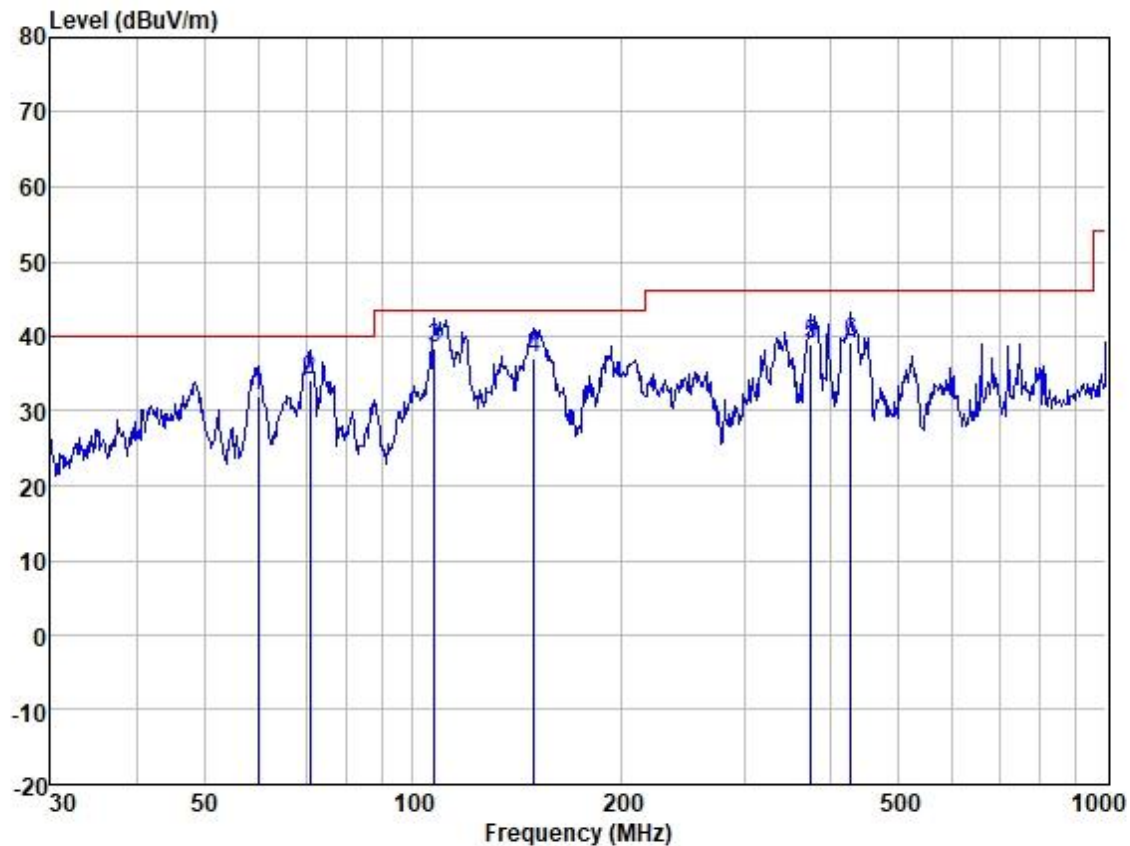
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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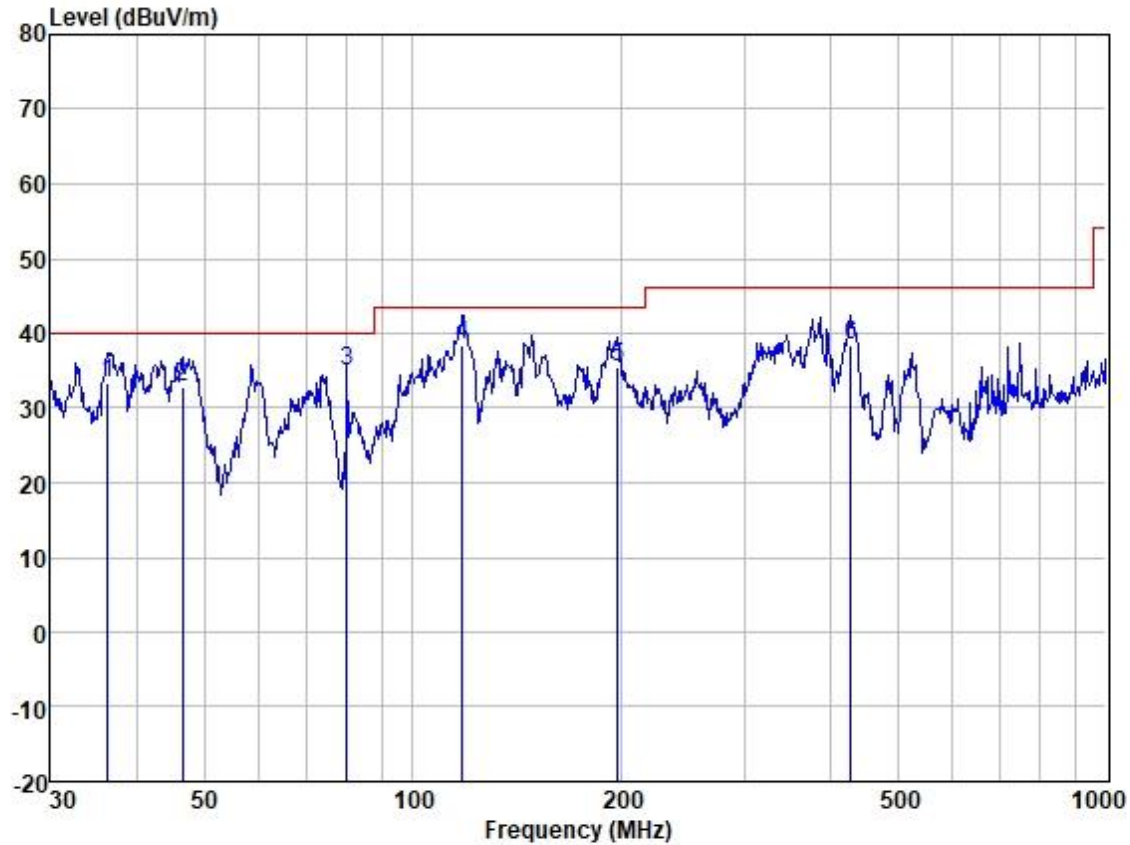
Test Mode: 02; Polarity: Horizontal



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	dB		
1	59.859	44.90	13.13	1.26	27.16	32.13	40.00	-7.87	HORIZONTAL	QP
2	71.080	48.39	11.50	1.41	27.12	34.18	40.00	-5.82	HORIZONTAL	QP
3	107.510	53.89	9.78	1.78	27.06	38.39	43.50	-5.11	HORIZONTAL	QP
4	149.486	48.07	13.49	2.22	26.84	36.94	43.50	-6.56	HORIZONTAL	QP
5	374.623	47.31	15.05	3.79	27.22	38.93	46.00	-7.07	HORIZONTAL	QP
6	428.019	46.17	16.44	4.07	27.47	39.21	46.00	-6.79	HORIZONTAL	QP

Test Mode: 02; Polarity: Vertical



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	dB		
1	36.254	46.97	12.53	1.07	27.18	33.39	40.00	-6.61	VERTICAL	QP
2	46.503	45.26	13.70	1.13	27.17	32.92	40.00	-7.08	VERTICAL	QP
3	80.362	51.99	8.62	1.48	27.10	34.99	40.00	-5.01	VERTICAL	QP
4	117.773	52.66	10.92	1.85	27.04	38.39	43.50	-5.11	VERTICAL	QP
5	197.200	49.58	10.03	2.51	26.73	35.39	43.50	-8.11	VERTICAL	QP
6	428.019	45.43	16.44	4.07	27.47	38.47	46.00	-7.53	VERTICAL	QP



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7.9 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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 60.7 % RH Atmospheric Pressure: 1005 mbar

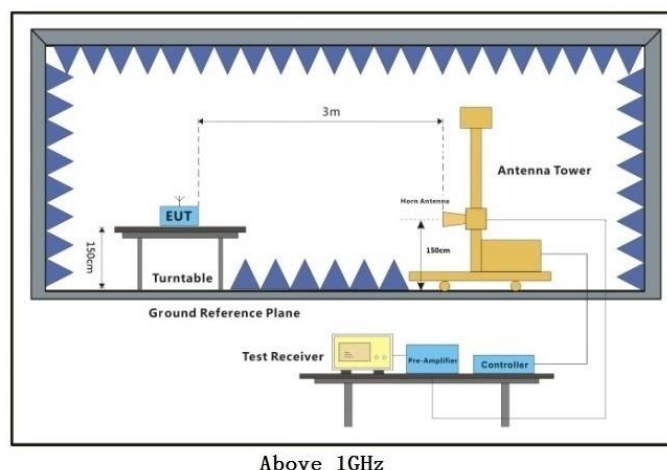
7.9.2 Test Mode Description

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

Final test 02

7.9.3 Test Setup Diagram



Above 1GHz

7.9.4 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:

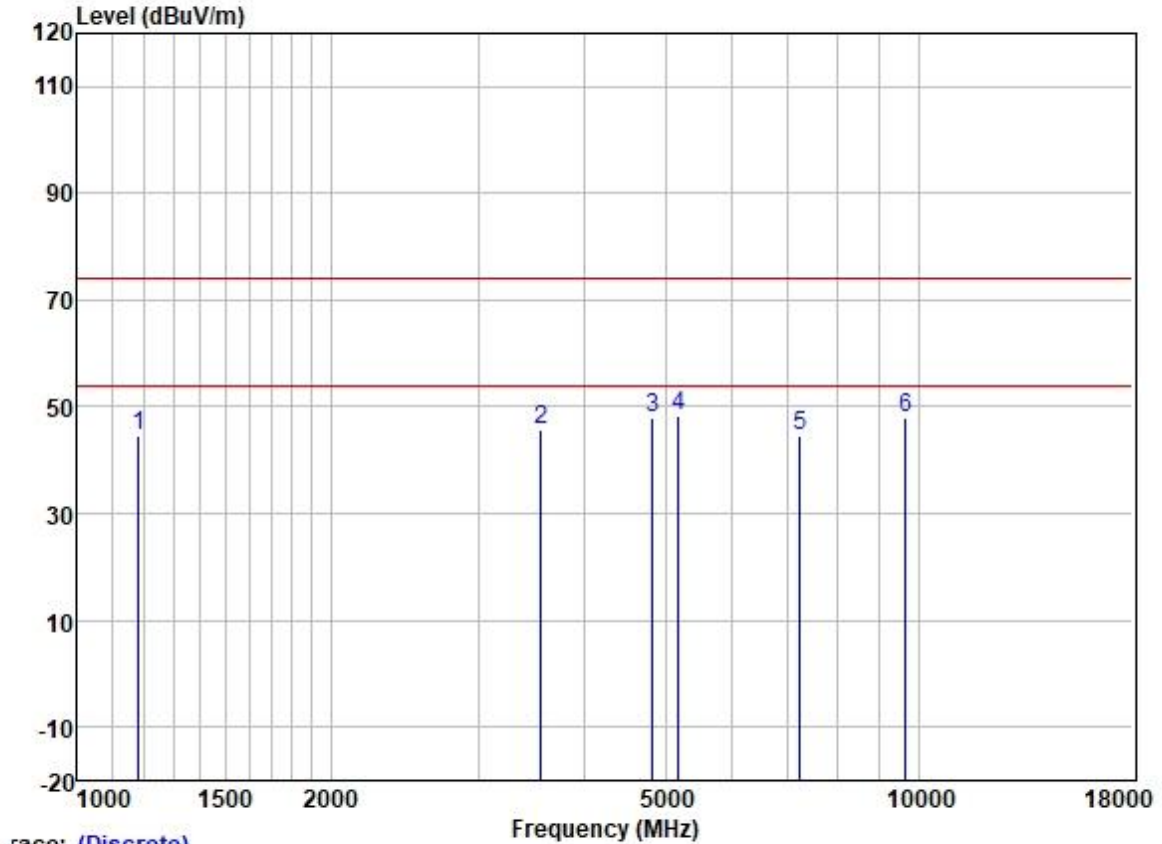
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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.



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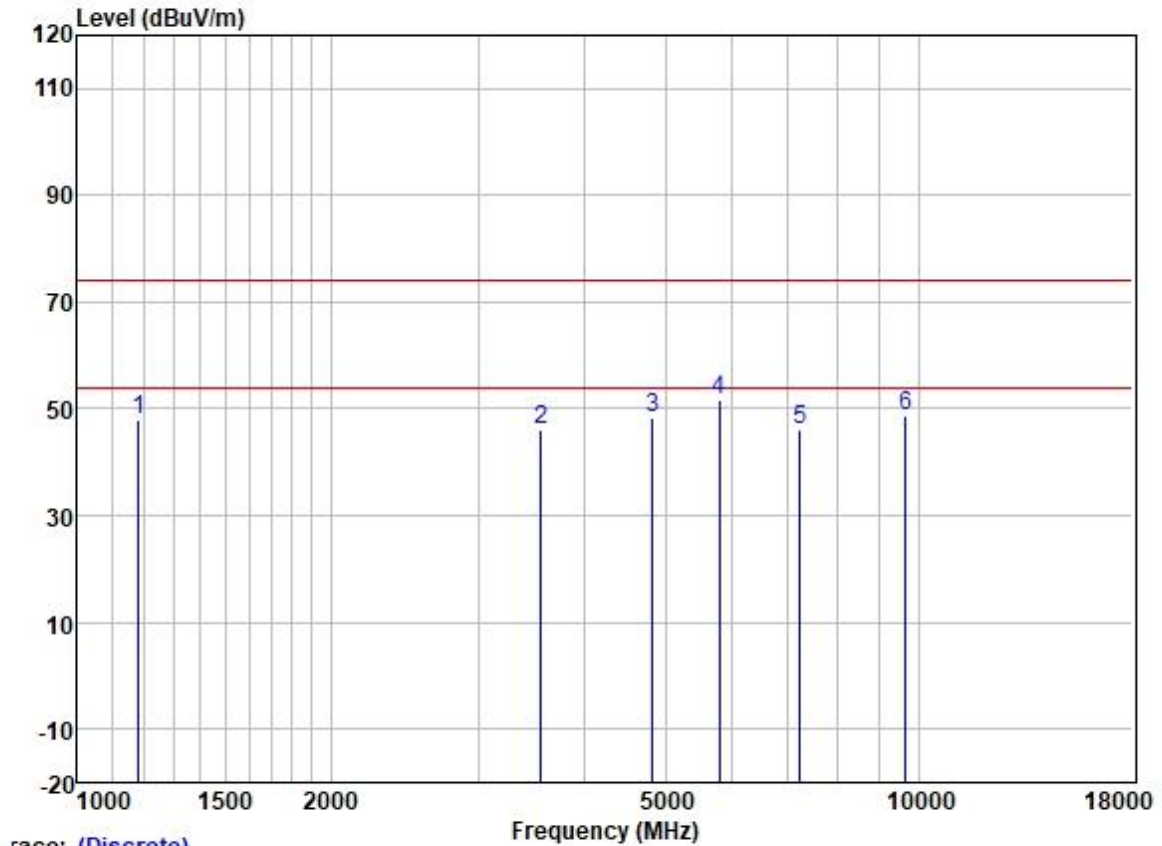
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	55.62	24.60	2.37	38.17	44.42	74.00	-29.58	VERTICAL	peak
2	3556.843	49.04	28.98	4.44	36.77	45.69	74.00	-28.31	VERTICAL	peak
3	4824.000	47.70	31.45	5.42	36.50	48.07	74.00	-25.93	VERTICAL	peak
4	5179.049	47.21	31.73	5.61	36.30	48.25	74.00	-25.75	VERTICAL	peak
5	7236.000	39.86	35.70	6.03	36.94	44.65	74.00	-29.35	VERTICAL	peak
6	9648.000	39.15	38.40	7.06	36.85	47.76	74.00	-26.24	VERTICAL	peak

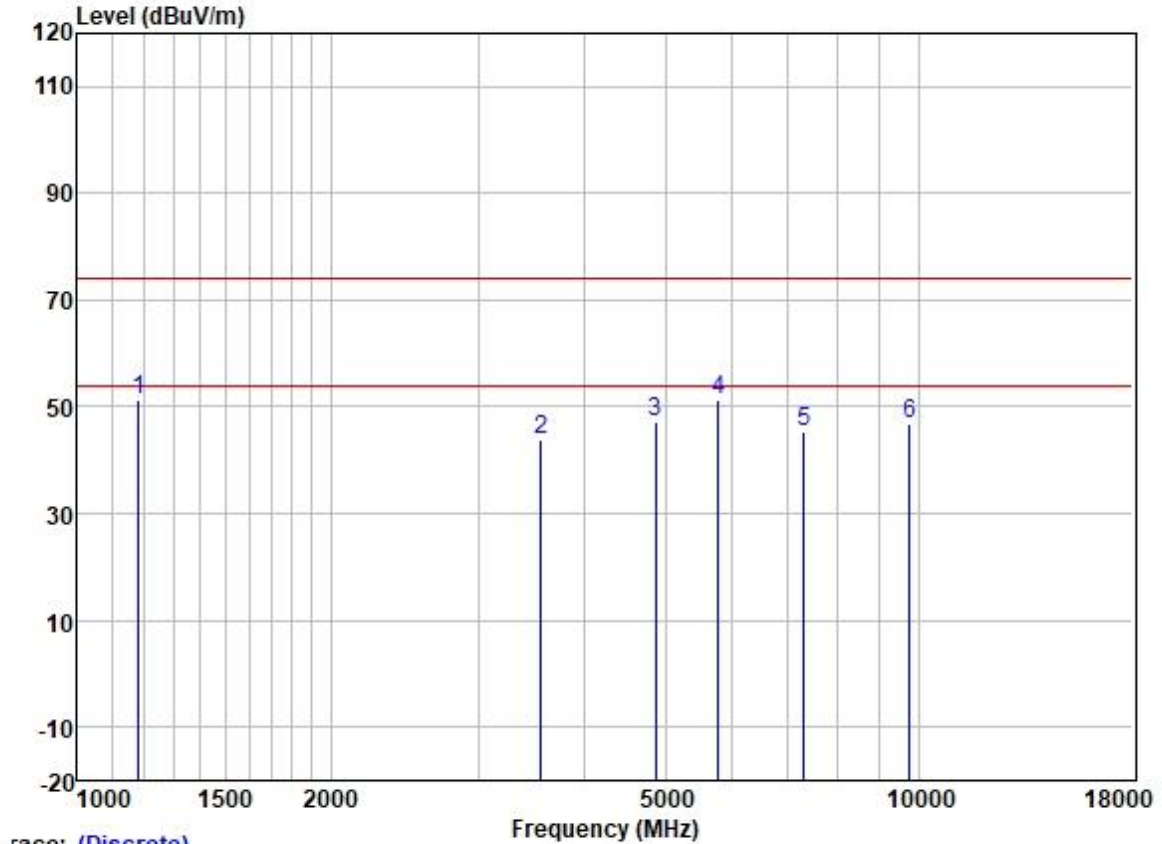
Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

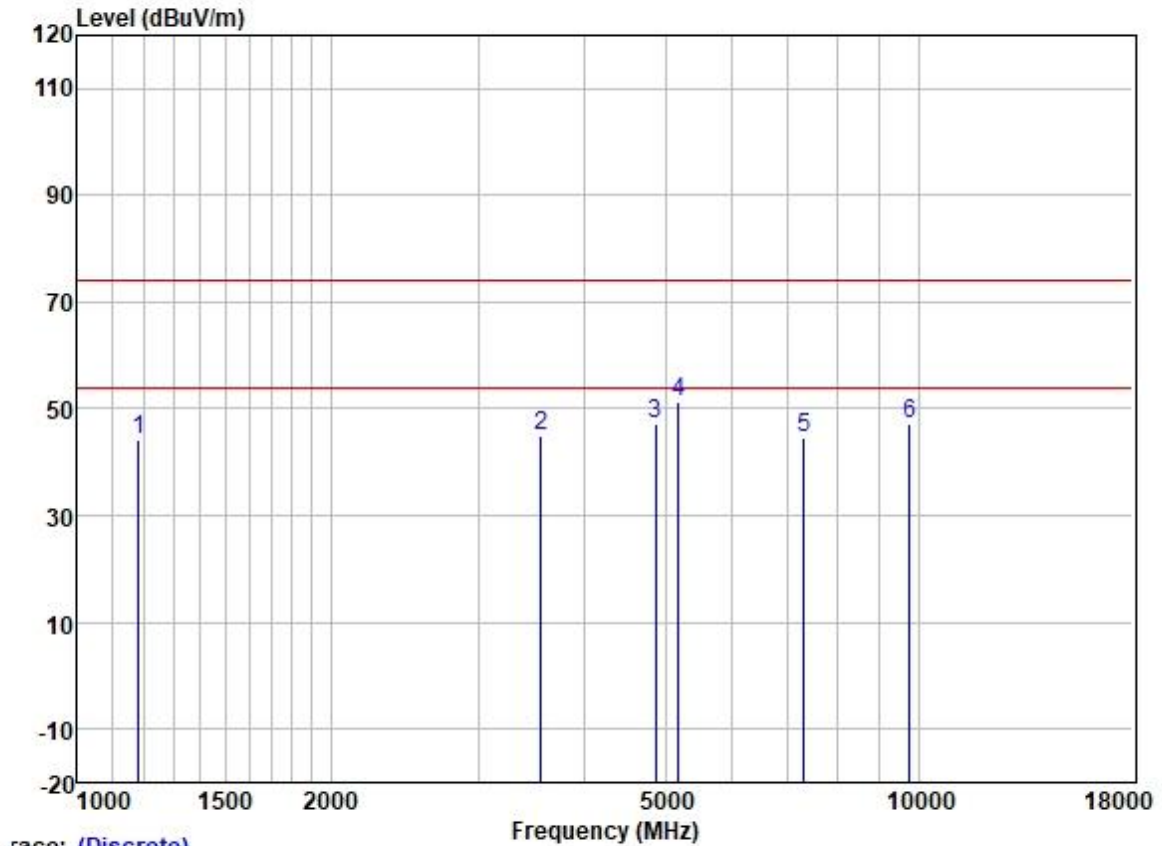
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	58.98	24.60	2.37	38.17	47.78	74.00	-26.22	HORIZONTAL	peak
2	3556.843	49.54	28.98	4.44	36.77	46.19	74.00	-27.81	HORIZONTAL	peak
3	4824.000	47.83	31.45	5.42	36.50	48.20	74.00	-25.80	HORIZONTAL	peak
4	5797.032	49.45	32.19	6.10	36.13	51.61	74.00	-22.39	HORIZONTAL	peak
5	7236.000	41.40	35.70	6.03	36.94	46.19	74.00	-27.81	HORIZONTAL	peak
6	9648.000	40.19	38.40	7.06	36.85	48.80	74.00	-25.20	HORIZONTAL	peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	62.66	24.60	2.37	38.17	51.46	74.00	-22.54	VERTICAL	peak
2	3556.843	47.30	28.98	4.44	36.77	43.95	74.00	-30.05	VERTICAL	peak
3	4874.000	46.68	31.54	5.50	36.48	47.24	74.00	-26.76	VERTICAL	peak
4	5780.300	49.23	32.16	6.10	36.14	51.35	74.00	-22.65	VERTICAL	peak
5	7311.000	40.11	35.93	6.11	36.99	45.16	74.00	-28.84	VERTICAL	peak
6	9748.000	38.20	38.50	7.02	36.83	46.89	74.00	-27.11	VERTICAL	peak

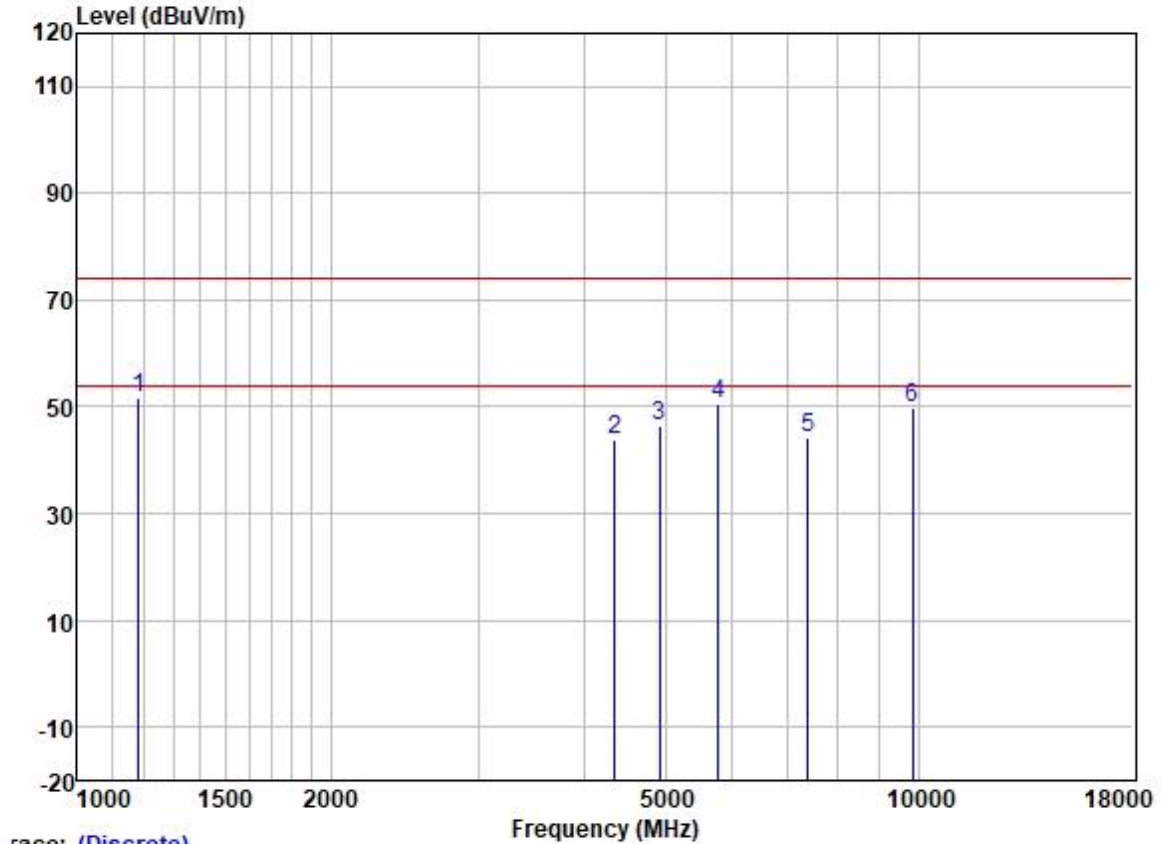
Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



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	1182.513	55.60	24.60	2.37	38.17	44.40	74.00	-29.60	HORIZONTAL	peak
2	3556.843	48.21	28.98	4.44	36.77	44.86	74.00	-29.14	HORIZONTAL	peak
3	4874.000	46.48	31.54	5.50	36.48	47.04	74.00	-26.96	HORIZONTAL	peak
4	5179.049	50.33	31.73	5.61	36.30	51.37	74.00	-22.63	HORIZONTAL	peak
5	7311.000	39.46	35.93	6.11	36.99	44.51	74.00	-29.49	HORIZONTAL	peak
6	9748.000	38.38	38.50	7.02	36.83	47.07	74.00	-26.93	HORIZONTAL	peak

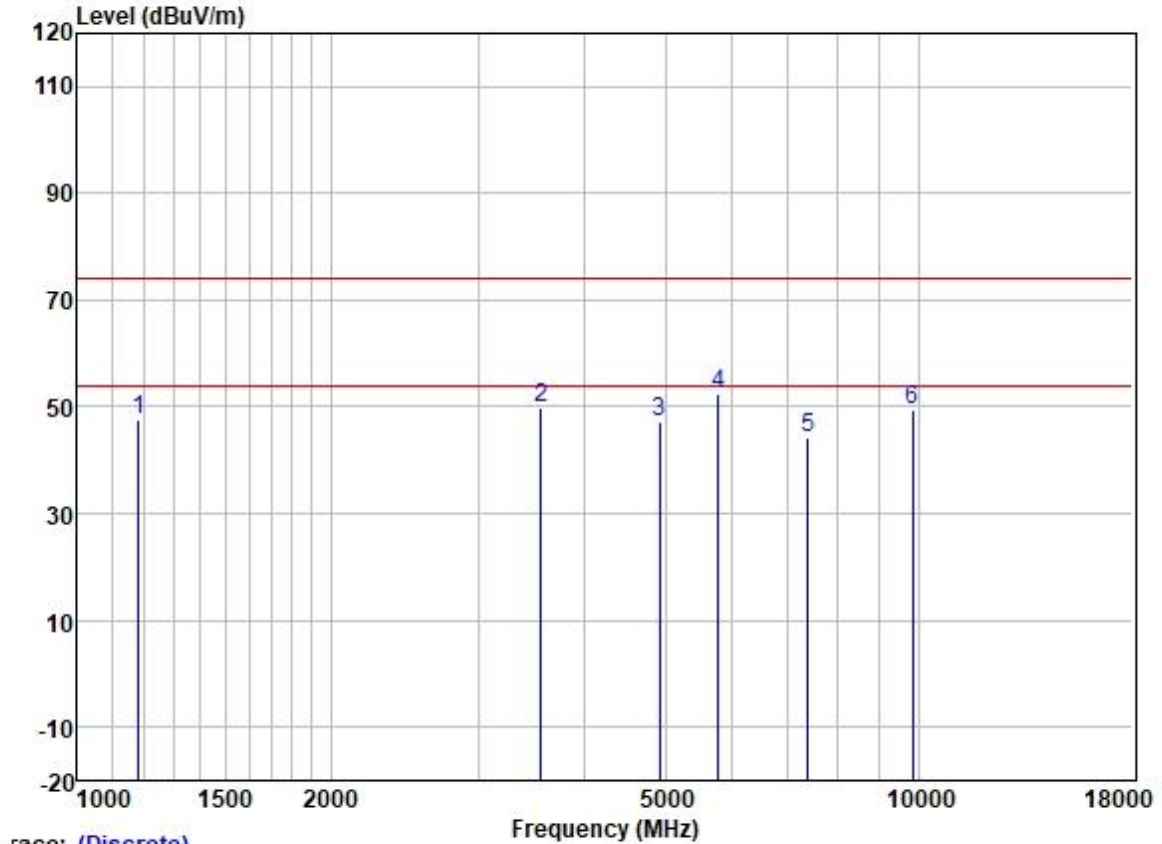
Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	62.87	24.60	2.37	38.17	51.67	74.00	-22.33	VERTICAL	peak
2	4354.454	45.34	30.59	4.68	36.64	43.97	74.00	-30.03	VERTICAL	peak
3	4924.000	45.65	31.62	5.60	36.45	46.42	74.00	-27.58	VERTICAL	peak
4	5780.300	48.46	32.16	6.10	36.14	50.58	74.00	-23.42	VERTICAL	peak
5	7386.000	38.89	36.17	6.19	37.04	44.21	74.00	-29.79	VERTICAL	peak
6	9848.000	41.25	38.58	6.99	36.82	50.00	74.00	-24.00	VERTICAL	peak

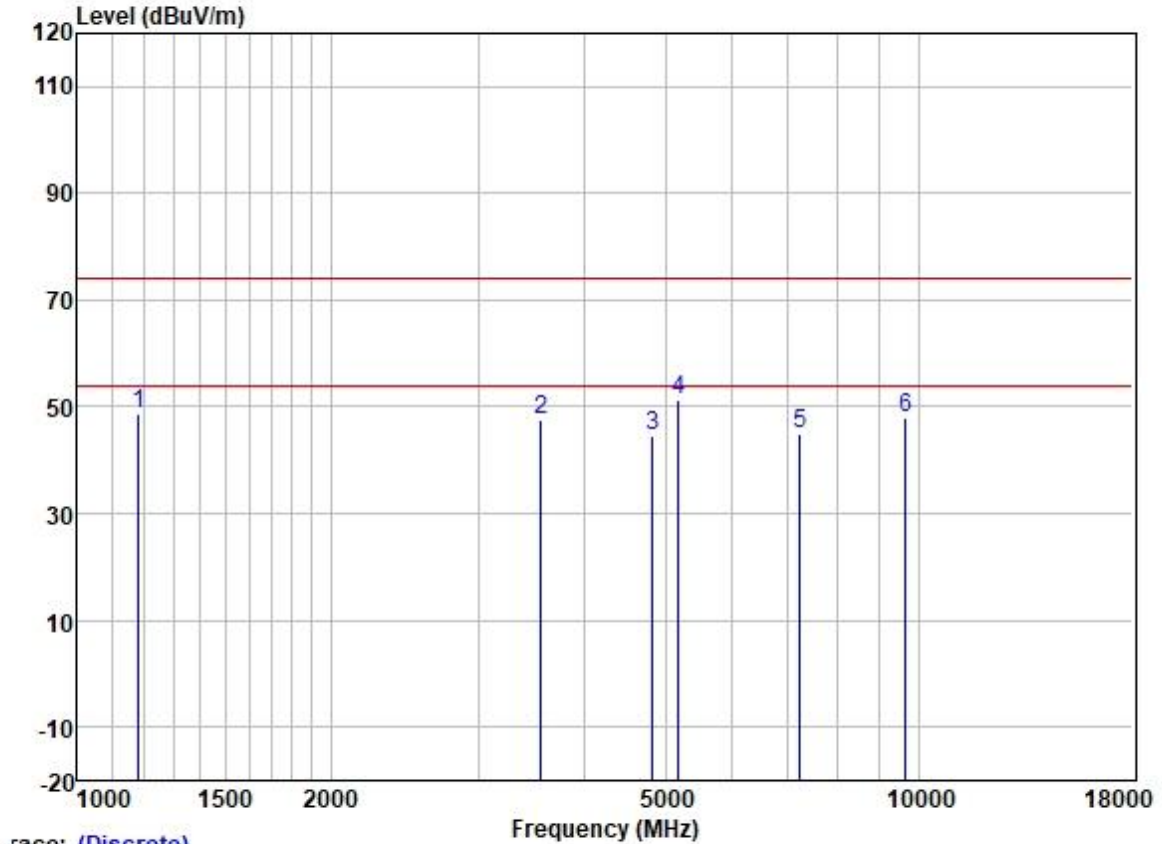
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		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	58.66	24.60	2.37	38.17	47.46	74.00	-26.54	HORIZONTAL	peak
2	3556.843	53.07	28.98	4.44	36.77	49.72	74.00	-24.28	HORIZONTAL	peak
3	4924.000	46.43	31.62	5.60	36.45	47.20	74.00	-26.80	HORIZONTAL	peak
4	5780.300	50.43	32.16	6.10	36.14	52.55	74.00	-21.45	HORIZONTAL	peak
5	7386.000	38.78	36.17	6.19	37.04	44.10	74.00	-29.90	HORIZONTAL	peak
6	9848.000	40.56	38.58	6.99	36.82	49.31	74.00	-24.69	HORIZONTAL	peak



Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



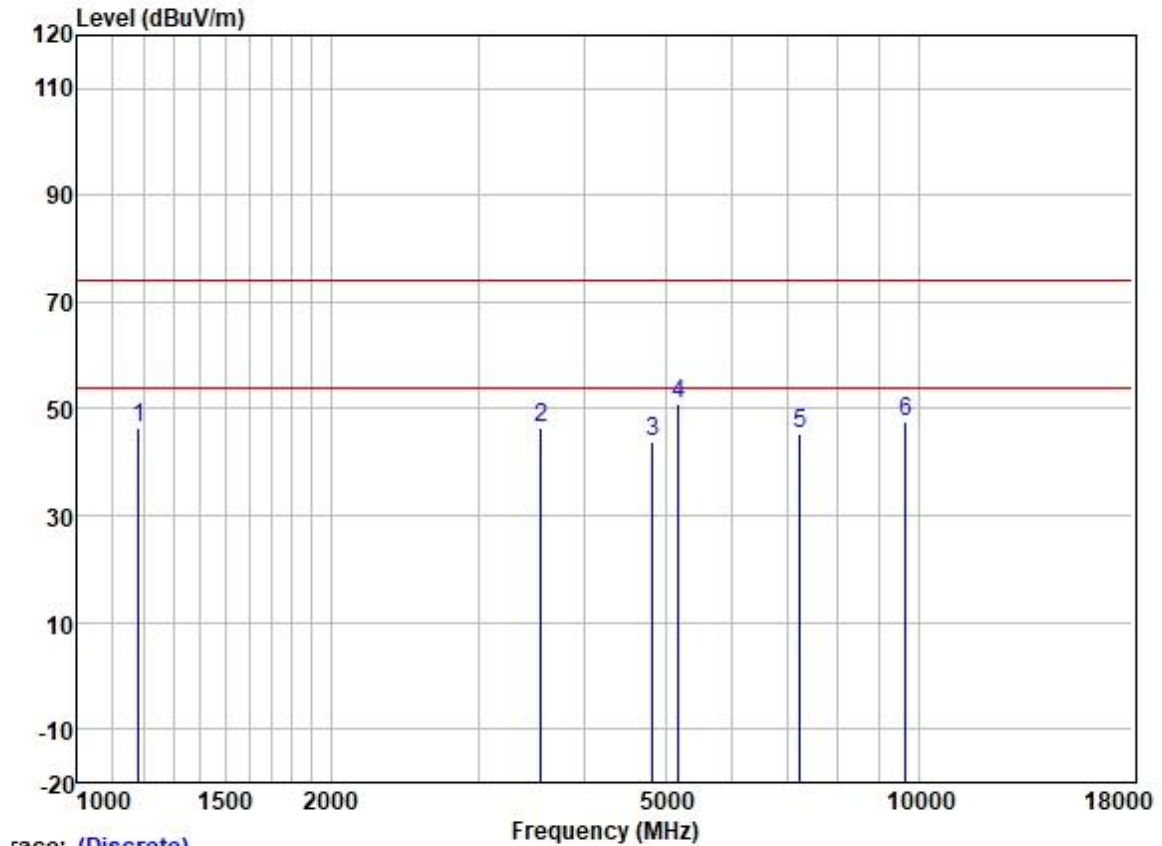
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	59.91	24.60	2.37	38.17	48.71	74.00	-25.29	VERTICAL	peak
2	3556.843	50.98	28.98	4.44	36.77	47.63	74.00	-26.37	VERTICAL	peak
3	4824.000	44.21	31.45	5.42	36.50	44.58	74.00	-29.42	VERTICAL	peak
4	5179.049	50.10	31.73	5.61	36.30	51.14	74.00	-22.86	VERTICAL	peak
5	7236.000	40.07	35.70	6.03	36.94	44.86	74.00	-29.14	VERTICAL	peak
6	9648.000	39.33	38.40	7.06	36.85	47.94	74.00	-26.06	VERTICAL	peak



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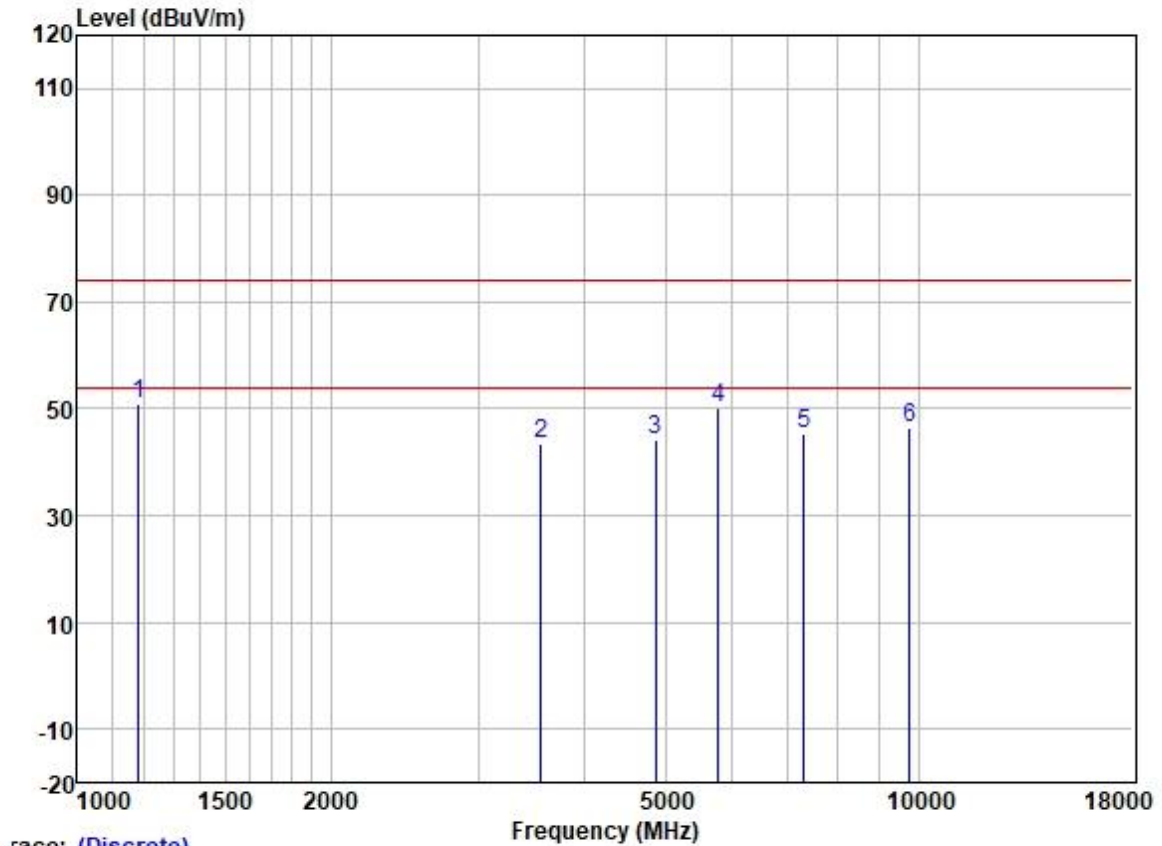
Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	57.79	24.60	2.37	38.17	46.59	74.00	-27.41	HORIZONTAL	peak
2	3556.843	49.97	28.98	4.44	36.77	46.62	74.00	-27.38	HORIZONTAL	peak
3	4824.000	43.42	31.45	5.42	36.50	43.79	74.00	-30.21	HORIZONTAL	peak
4	5179.049	50.07	31.73	5.61	36.30	51.11	74.00	-22.89	HORIZONTAL	peak
5	7236.000	40.66	35.70	6.03	36.94	45.45	74.00	-28.55	HORIZONTAL	peak
6	9648.000	39.14	38.40	7.06	36.85	47.75	74.00	-26.25	HORIZONTAL	peak

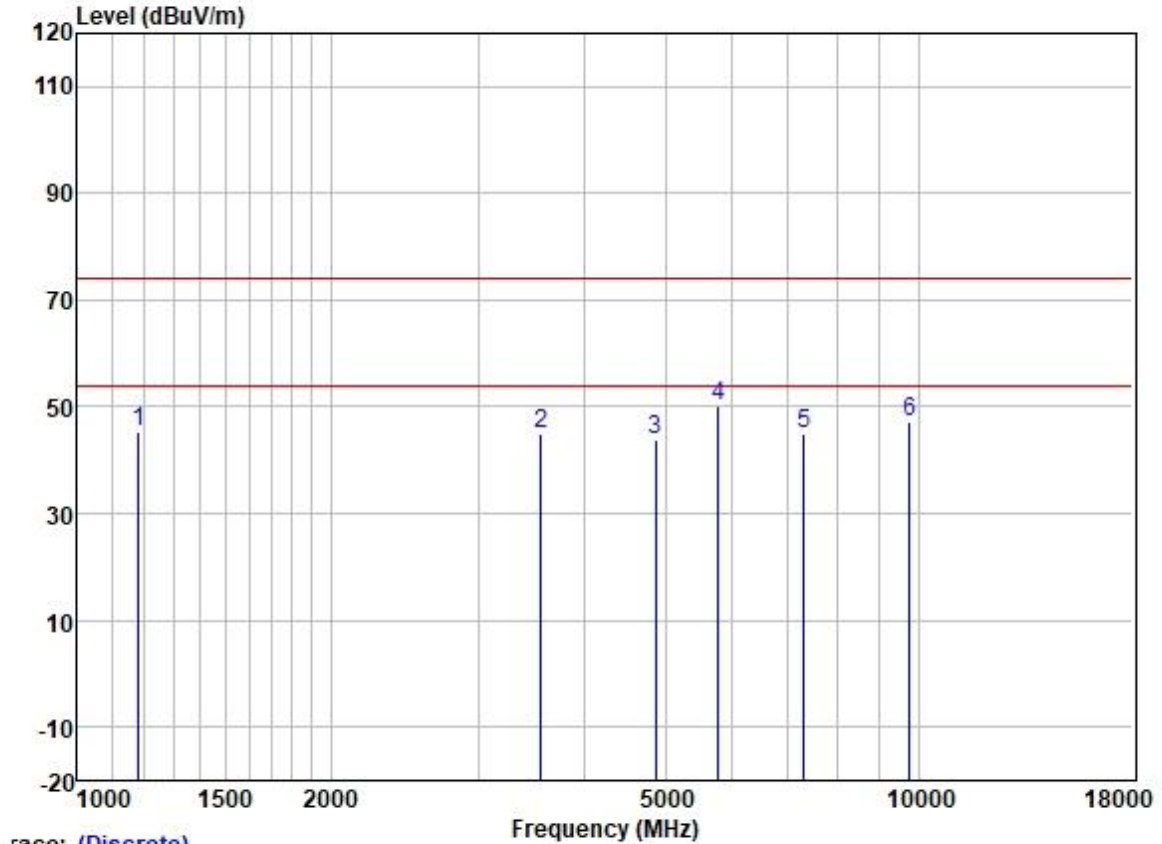
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Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1182.513	62.01	24.60	2.37	38.17	50.81	74.00	-23.19	VERTICAL peak
2	3556.843	46.86	28.98	4.44	36.77	43.51	74.00	-30.49	VERTICAL peak
3	4874.000	43.58	31.54	5.50	36.48	44.14	74.00	-29.86	VERTICAL peak
4	5780.300	48.00	32.16	6.10	36.14	50.12	74.00	-23.88	VERTICAL peak
5	7311.000	40.30	35.93	6.11	36.99	45.35	74.00	-28.65	VERTICAL peak
6	9748.000	37.80	38.50	7.02	36.83	46.49	74.00	-27.51	VERTICAL peak

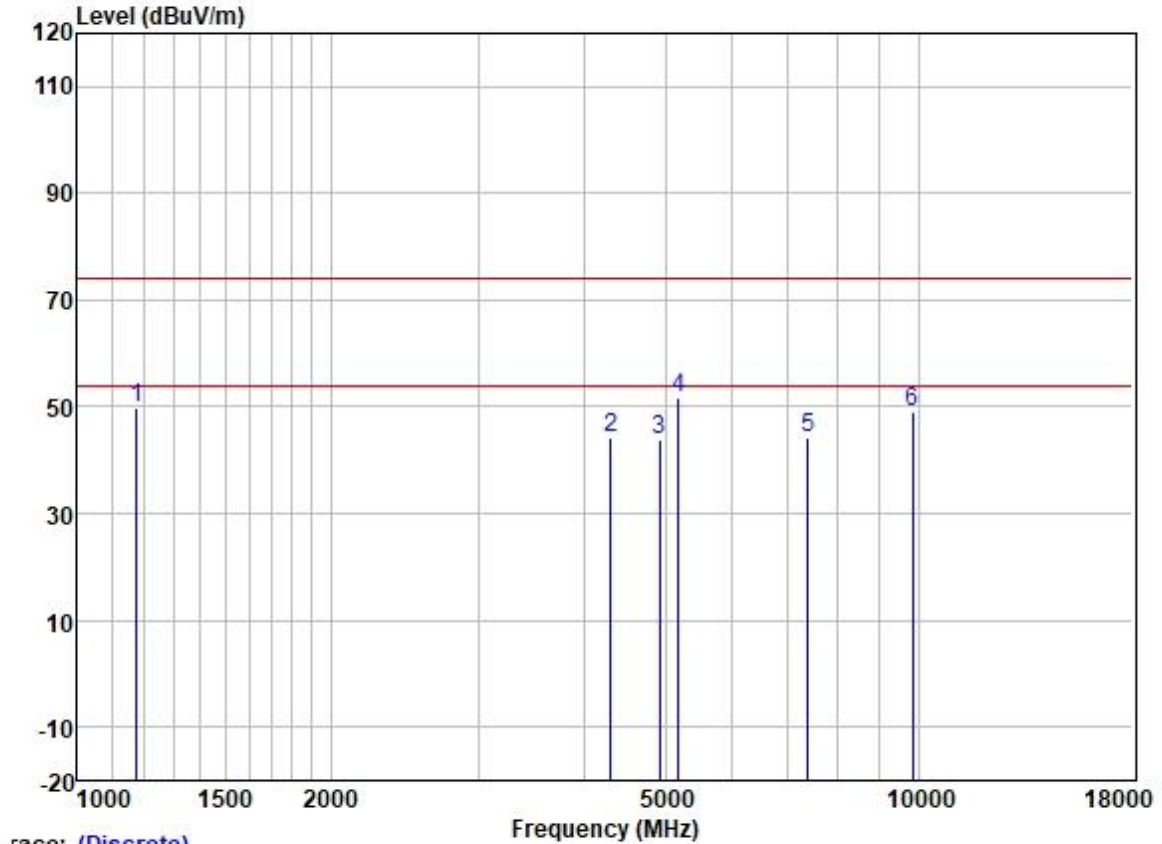
Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



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	1182.513	56.43	24.60	2.37	38.17	45.23	74.00	-28.77	HORIZONTAL	peak
2	3556.843	48.36	28.98	4.44	36.77	45.01	74.00	-28.99	HORIZONTAL	peak
3	4874.000	43.16	31.54	5.50	36.48	43.72	74.00	-30.28	HORIZONTAL	peak
4	5780.300	48.05	32.16	6.10	36.14	50.17	74.00	-23.83	HORIZONTAL	peak
5	7311.000	39.97	35.93	6.11	36.99	45.02	74.00	-28.98	HORIZONTAL	peak
6	9748.000	38.61	38.50	7.02	36.83	47.30	74.00	-26.70	HORIZONTAL	peak

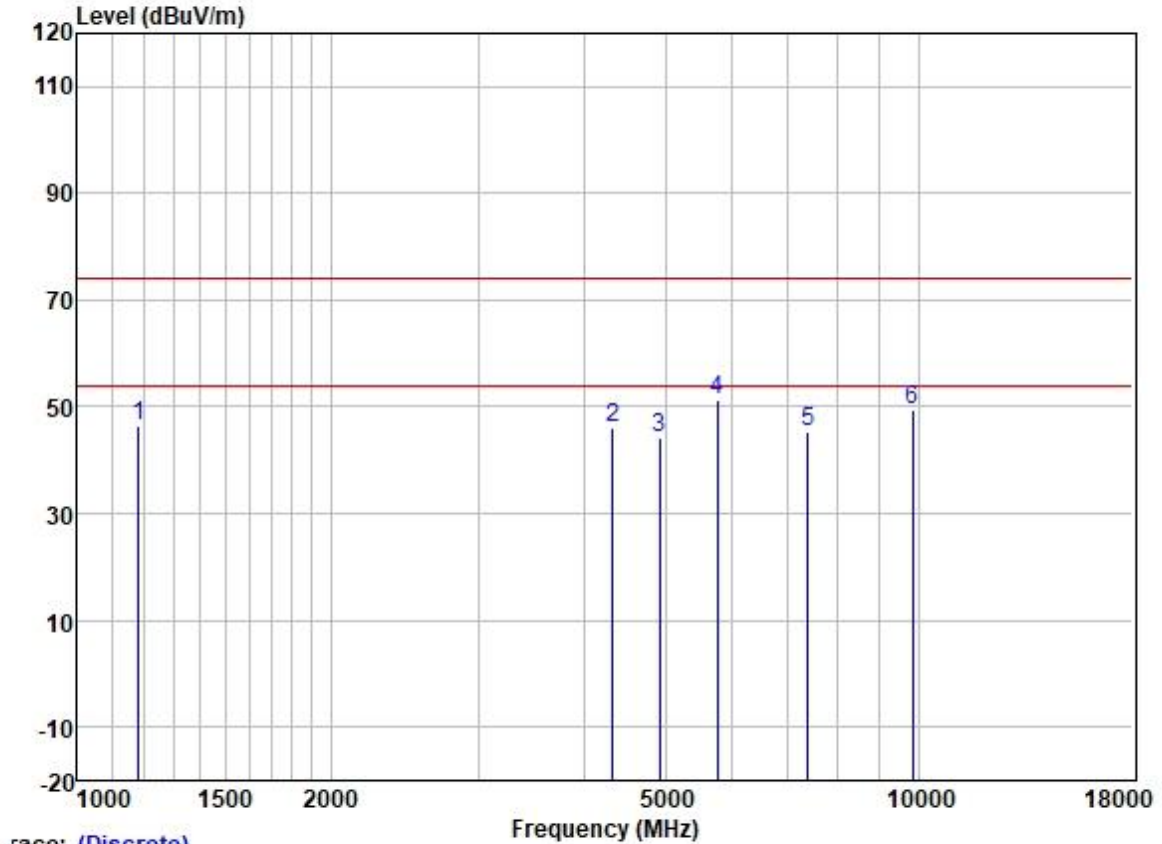
Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1175.697	61.21	24.58	2.38	38.17	50.00	74.00	-24.00	VERTICAL	peak
2	4304.400	45.58	30.48	4.65	36.65	44.06	74.00	-29.94	VERTICAL	peak
3	4924.000	43.15	31.62	5.60	36.45	43.92	74.00	-30.08	VERTICAL	peak
4	5179.049	50.80	31.73	5.61	36.30	51.84	74.00	-22.16	VERTICAL	peak
5	7386.000	38.97	36.17	6.19	37.04	44.29	74.00	-29.71	VERTICAL	peak
6	9848.000	40.34	38.58	6.99	36.82	49.09	74.00	-24.91	VERTICAL	peak

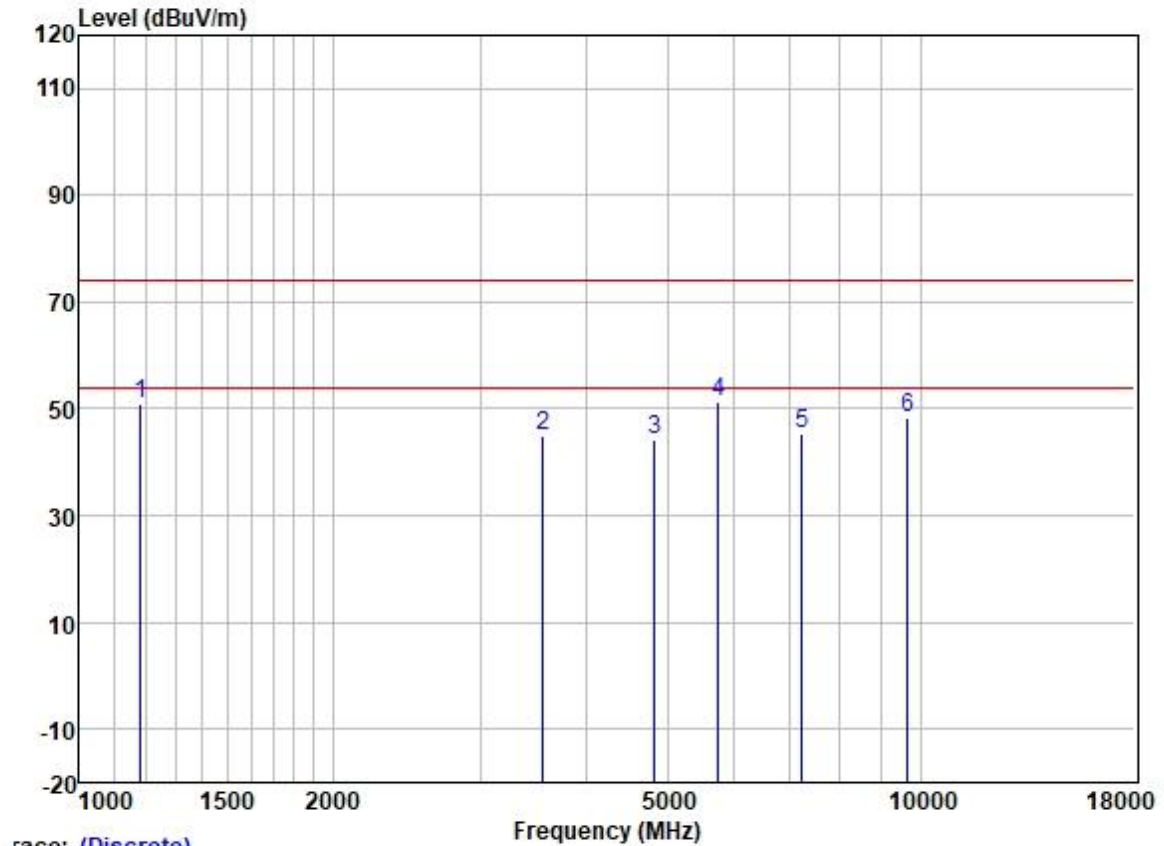
Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

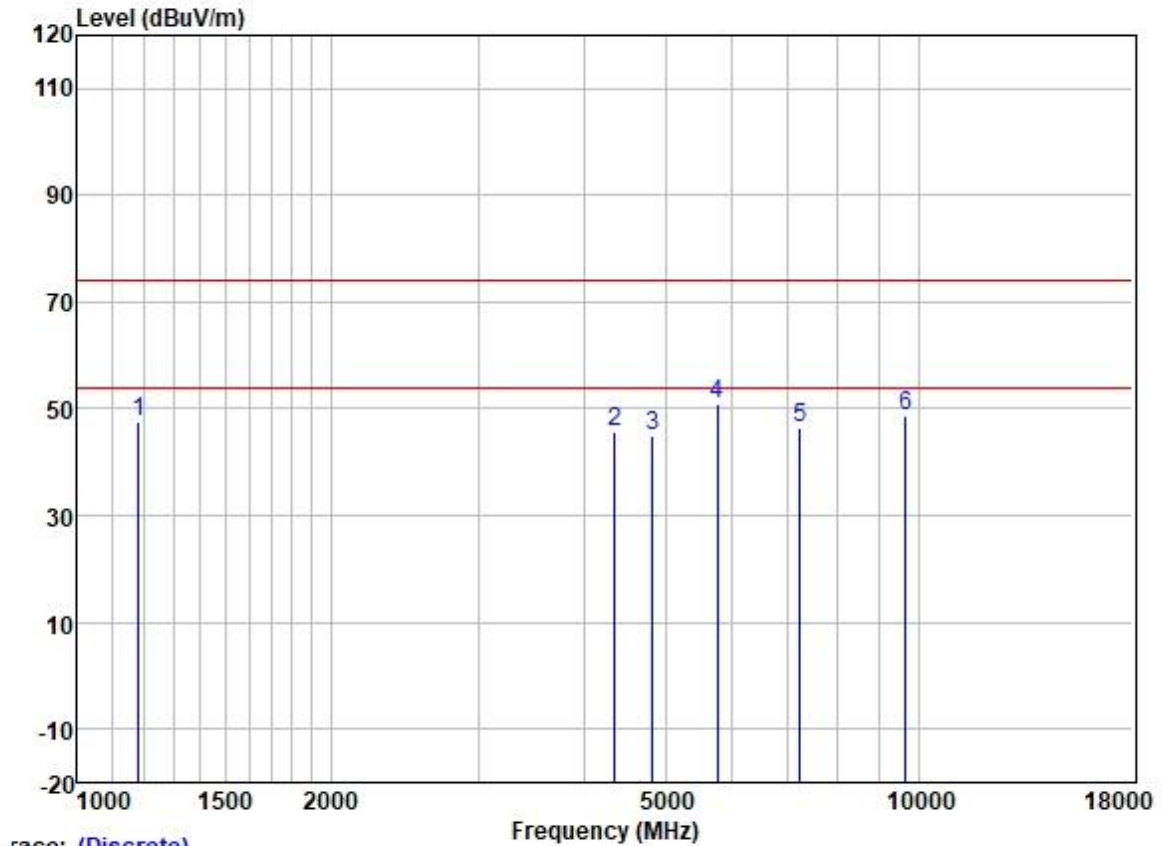
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	57.74	24.60	2.37	38.17	46.54	74.00	-27.46	HORIZONTAL	peak
2	4329.354	47.40	30.54	4.67	36.64	45.97	74.00	-28.03	HORIZONTAL	peak
3	4924.000	43.59	31.62	5.60	36.45	44.36	74.00	-29.64	HORIZONTAL	peak
4	5763.617	49.17	32.13	6.15	36.14	51.31	74.00	-22.69	HORIZONTAL	peak
5	7386.000	40.13	36.17	6.19	37.04	45.45	74.00	-28.55	HORIZONTAL	peak
6	9848.000	40.83	38.58	6.99	36.82	49.58	74.00	-24.42	HORIZONTAL	peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



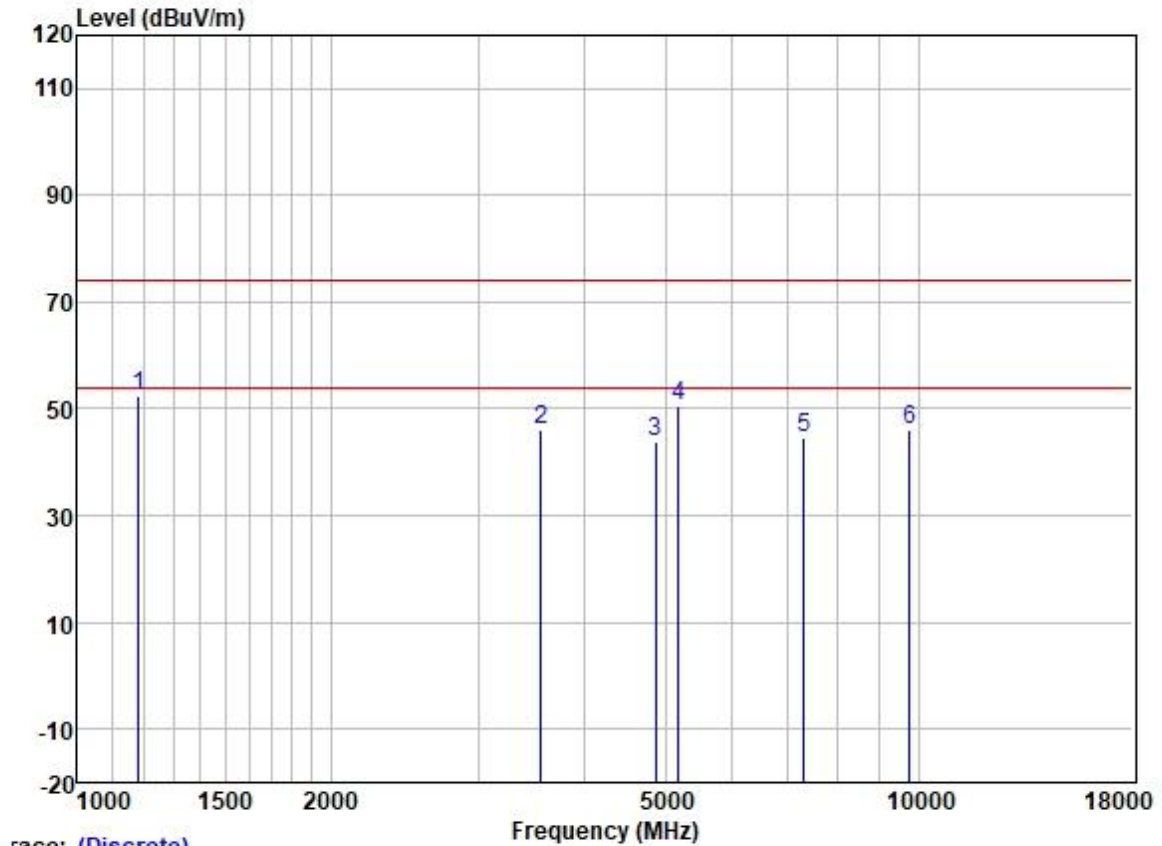
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	62.23	24.60	2.37	38.17	51.03	74.00	-22.97	VERTICAL	peak
2	3556.843	48.43	28.98	4.44	36.77	45.08	74.00	-28.92	VERTICAL	peak
3	4824.000	43.69	31.45	5.42	36.50	44.06	74.00	-29.94	VERTICAL	peak
4	5746.982	49.13	32.10	6.20	36.14	51.29	74.00	-22.71	VERTICAL	peak
5	7236.000	40.60	35.70	6.03	36.94	45.39	74.00	-28.61	VERTICAL	peak
6	9648.000	39.71	38.40	7.06	36.85	48.32	74.00	-25.68	VERTICAL	peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1182.513	58.65	24.60	2.37	38.17	47.45	74.00	-26.55	HORIZONTAL peak
2	4354.454	47.26	30.59	4.68	36.64	45.89	74.00	-28.11	HORIZONTAL peak
3	4824.000	44.47	31.45	5.42	36.50	44.84	74.00	-29.16	HORIZONTAL peak
4	5763.617	48.77	32.13	6.15	36.14	50.91	74.00	-23.09	HORIZONTAL peak
5	7236.000	41.52	35.70	6.03	36.94	46.31	74.00	-27.69	HORIZONTAL peak
6	9648.000	40.22	38.40	7.06	36.85	48.83	74.00	-25.17	HORIZONTAL peak

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; 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	1182.513	63.65	24.60	2.37	38.17	52.45	74.00	-21.55	VERTICAL	peak
2	3556.843	49.57	28.98	4.44	36.77	46.22	74.00	-27.78	VERTICAL	peak
3	4874.000	43.35	31.54	5.50	36.48	43.91	74.00	-30.09	VERTICAL	peak
4	5179.049	49.68	31.73	5.61	36.30	50.72	74.00	-23.28	VERTICAL	peak
5	7311.000	39.69	35.93	6.11	36.99	44.74	74.00	-29.26	VERTICAL	peak
6	9748.000	37.43	38.50	7.02	36.83	46.12	74.00	-27.88	VERTICAL	peak