

TEST REPORT

Application No.:	GZCR2307000775HS
Applicant:	Current Backyard, LLC
Address of Applicant:	1442 Belfast Avenue, Columbus, GA 31904, USA
Manufacturer:	Current Backyard, LLC
Address of Manufacturer:	1442 Belfast Avenue, Columbus, GA 31904, USA
Factory:	The 1st Branch of Guangdong Midea Kitchen Appliance Manufacturing Co. Ltd
Address of Factory:	No. 18 Huanzhen Xi Road, Beijiao, Shunde, Foshan, Guangdong, China, 528311
Equipment Under Test (EUT):	
EUT Name:	Wi-Fi&BLE Module
Model No.:	A0120BSW-1
Trade Mark:	Current
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2023-07-27
Date of Test:	2023-09-06 to 2023-09-11
Date of Issue:	2023-09-13
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu
Manager

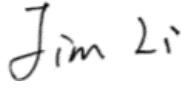


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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230700077501	2023-09-13	Original

Authorized for issue by			
		 Jim Li	
		<u>Jim Li/Project Engineer</u>	
		 Vico Cui	
		<u>Vico Cui/Reviewer</u>	

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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 11.12	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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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V
Cable(s):	N/A
Test voltage:	AC 120 V, 60 Hz powered by Note Book Computer refer to section 4.2
Antenna Type:	Integral Antenna
Antenna Gain:	1.1 dBi Max
Antenna Number:	1 (The PCB antenna is disable by firmware)
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
For BLE	
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ



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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, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

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

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, IEC6001 and Rules of procedure IEC6002, and the relevant IEC600 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	2023-08-04	2024-08-03
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	2023-09-08	2024-09-07
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18
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	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
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	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
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	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
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	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
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	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
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	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
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	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20
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
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
TRILOG Broadband Antenna(25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05

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	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
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	2022-12-16	2023-12-15
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20
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	2023-06-11	2024-06-10

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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 1.1 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 (dB μ V)	
	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: 25.1 °C Humidity: 53.5 % RH Atmospheric Pressure: 1000 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 GFSK modulation.
Final test	01	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.



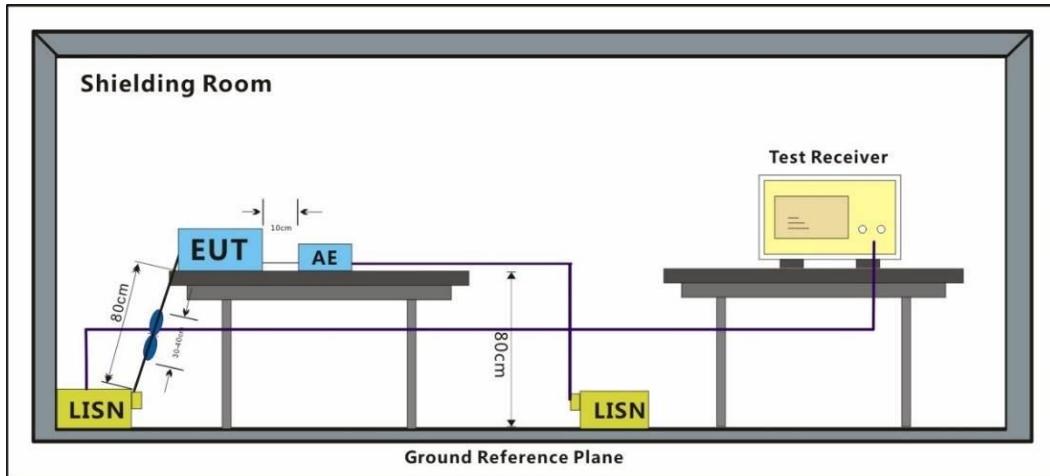
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 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.

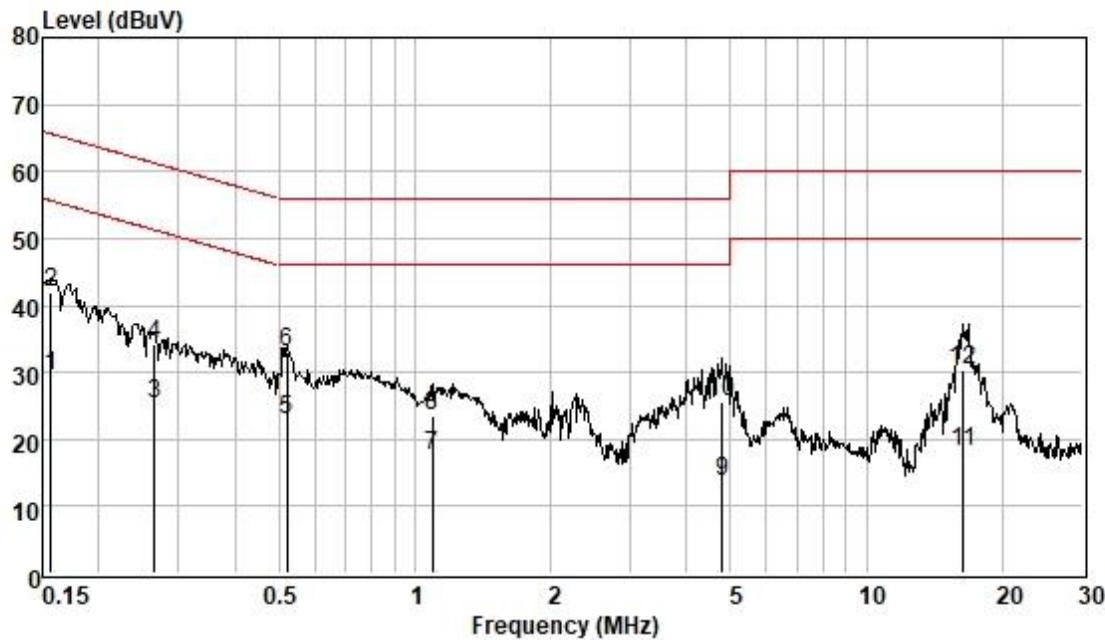
Remark: Level=Read Level+ Cable Loss+ LISN Factor

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Test Mode: 00; Line: Live line



Pol :LINE

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	19.92	0.04	9.61	29.57	55.65	-26.08	Average
2	0.156	32.18	0.04	9.61	41.83	65.65	-23.82	QP
3	0.266	15.53	0.04	9.61	25.18	51.25	-26.07	Average
4	0.266	24.45	0.04	9.61	34.10	61.25	-27.15	QP
5	0.521	13.16	0.05	9.59	22.80	46.00	-23.20	Average
6	0.521	23.23	0.05	9.59	32.87	56.00	-23.13	QP
7	1.094	7.83	0.08	9.60	17.51	46.00	-28.49	Average
8	1.094	13.77	0.08	9.60	23.45	56.00	-32.55	QP
9	4.797	3.76	0.19	9.65	13.60	46.00	-32.40	Average
10	4.797	15.81	0.19	9.65	25.65	56.00	-30.35	QP
11	16.398	8.07	0.34	9.69	18.10	50.00	-31.90	Average
12	16.398	20.19	0.34	9.69	30.22	60.00	-29.78	QP

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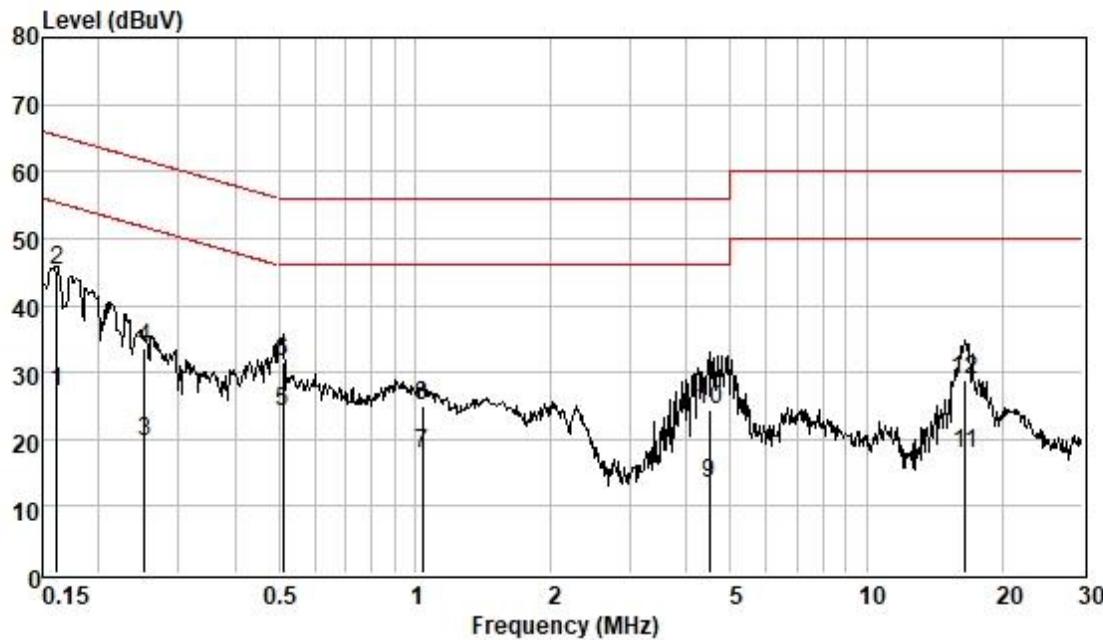
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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

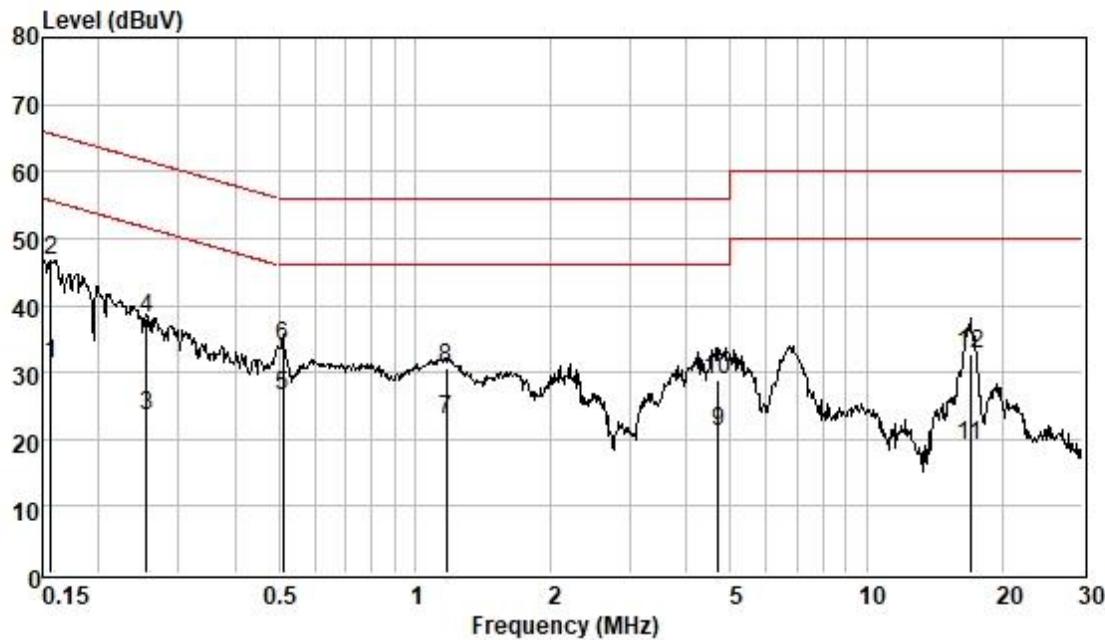
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	17.44	0.04	9.61	27.09	55.38	-28.29	Average
2	0.162	35.52	0.04	9.61	45.17	65.38	-20.21	QP
3	0.252	9.94	0.04	9.61	19.59	51.69	-32.10	Average
4	0.252	23.91	0.04	9.61	33.56	61.69	-28.13	QP
5	0.510	14.44	0.05	9.60	24.09	46.00	-21.91	Average
6	0.510	21.80	0.05	9.60	31.45	56.00	-24.55	QP
7	1.037	8.23	0.07	9.61	17.91	46.00	-28.09	Average
8	1.037	15.17	0.07	9.61	24.85	56.00	-31.15	QP
9	4.478	3.50	0.19	9.65	13.34	46.00	-32.66	Average
10	4.478	14.44	0.19	9.65	24.28	56.00	-31.72	QP
11	16.486	7.54	0.35	9.81	17.70	50.00	-32.30	Average
12	16.486	18.83	0.35	9.81	28.99	60.00	-31.01	QP

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Test Mode: 01; Line: Live line



Pol :LINE

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	21.49	0.04	9.61	31.14	55.65	-24.51	Average
2	0.156	36.95	0.04	9.61	46.60	65.65	-19.05	QP
3	0.255	13.93	0.04	9.61	23.58	51.60	-28.02	Average
4	0.255	28.27	0.04	9.61	37.92	61.60	-23.68	QP
5	0.510	16.88	0.05	9.59	26.52	46.00	-19.48	Average
6	0.510	24.21	0.05	9.59	33.85	56.00	-22.15	QP
7	1.172	13.34	0.08	9.60	23.02	46.00	-22.98	Average
8	1.172	20.93	0.08	9.60	30.61	56.00	-25.39	QP
9	4.696	11.36	0.19	9.64	21.19	46.00	-24.81	Average
10	4.696	19.10	0.19	9.64	28.93	56.00	-27.07	QP
11	16.928	9.02	0.35	9.69	19.06	50.00	-30.94	Average
12	16.928	22.73	0.35	9.69	32.77	60.00	-27.23	QP

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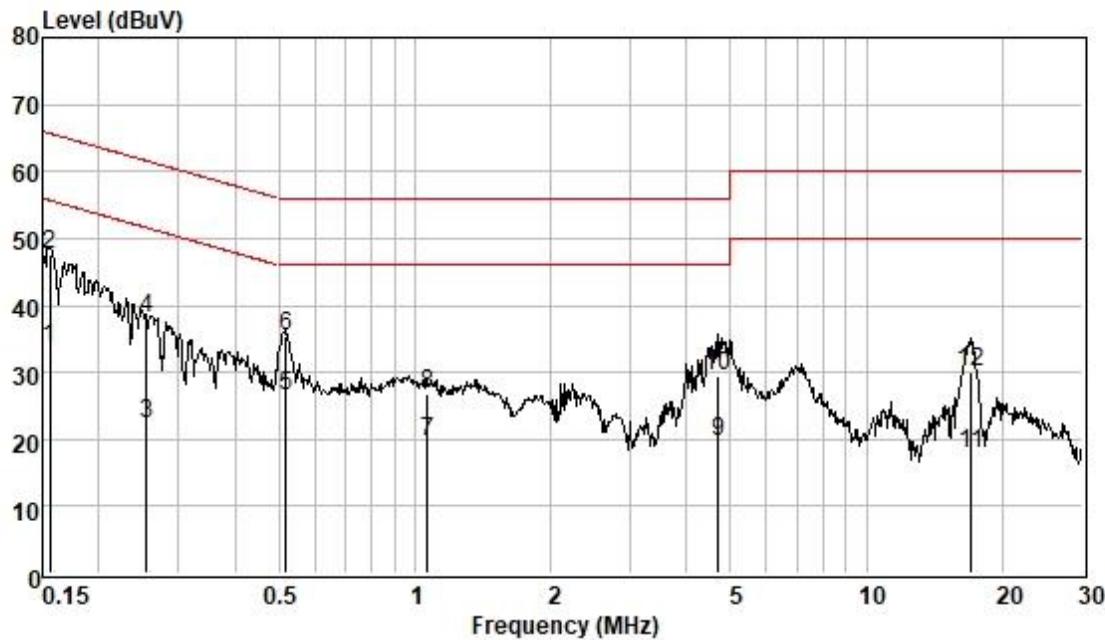
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Test Mode: 01; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	23.90	0.04	9.62	33.56	55.69	-22.13	Average
2	0.156	37.90	0.04	9.62	47.56	65.69	-18.13	QP
3	0.255	12.68	0.04	9.61	22.33	51.60	-29.27	Average
4	0.255	28.27	0.04	9.61	37.92	61.60	-23.68	QP
5	0.518	16.95	0.05	9.60	26.60	46.00	-19.40	Average
6	0.518	25.84	0.05	9.60	35.49	56.00	-20.51	QP
7	1.065	10.07	0.08	9.61	19.76	46.00	-26.24	Average
8	1.065	17.14	0.08	9.61	26.83	56.00	-29.17	QP
9	4.696	9.72	0.19	9.65	19.56	46.00	-26.44	Average
10	4.696	19.63	0.19	9.65	29.47	56.00	-26.53	QP
11	17.018	7.57	0.35	9.82	17.74	50.00	-32.26	Average
12	17.018	19.97	0.35	9.82	30.14	60.00	-29.86	QP

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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

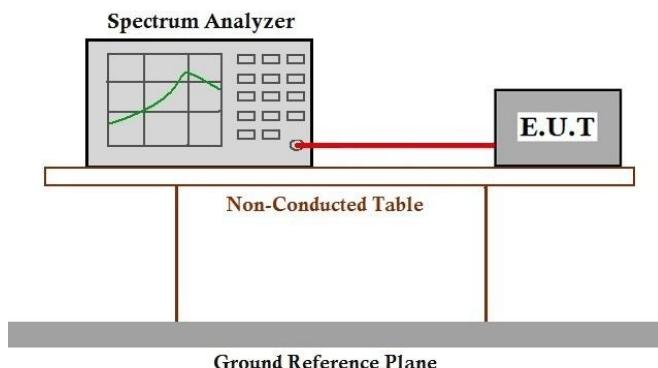
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

7.2.3 Test Setup Diagram

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7.2.4 Measurement Procedure and Data

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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

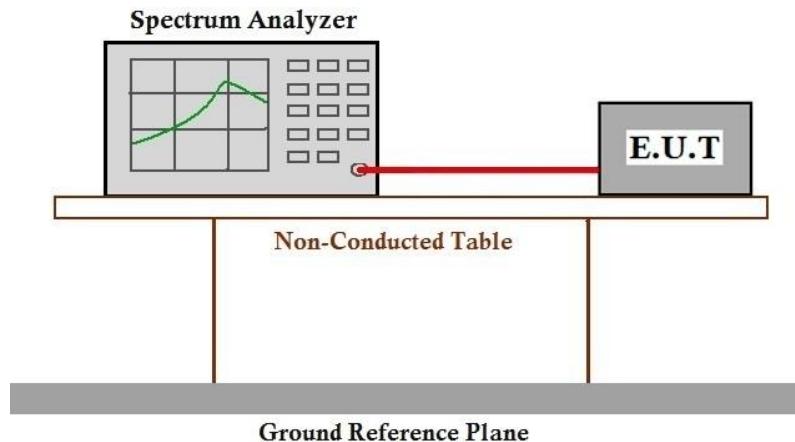
Operating Environment:

Temperature: 25.3 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 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 GFSK modulation.
Final test	01	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.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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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

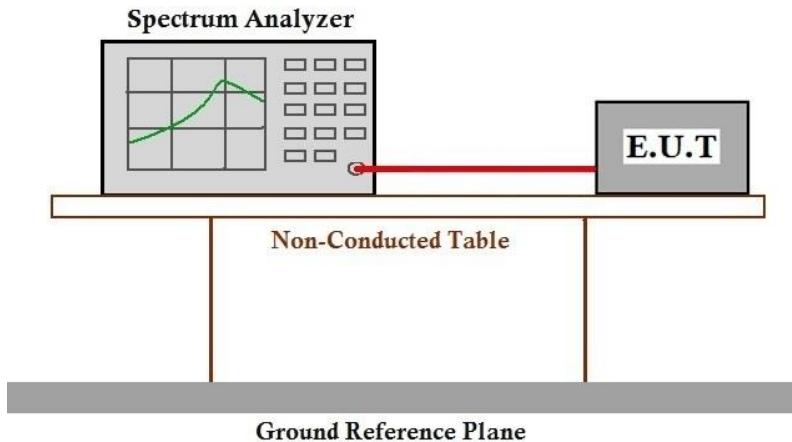
Operating Environment:

Temperature: 25.3 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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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

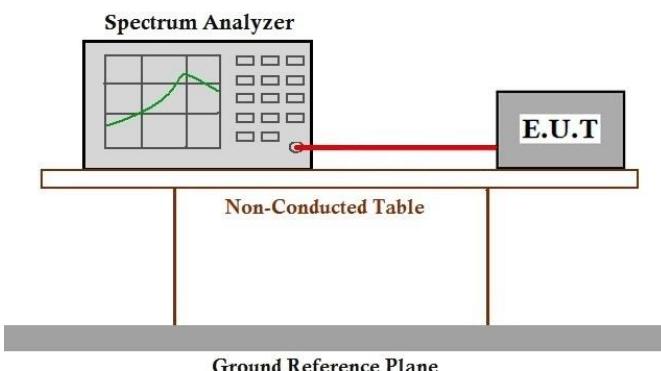
Operating Environment:

Temperature: 25.3 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keeep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode_Keeep 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.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

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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: 25.3 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

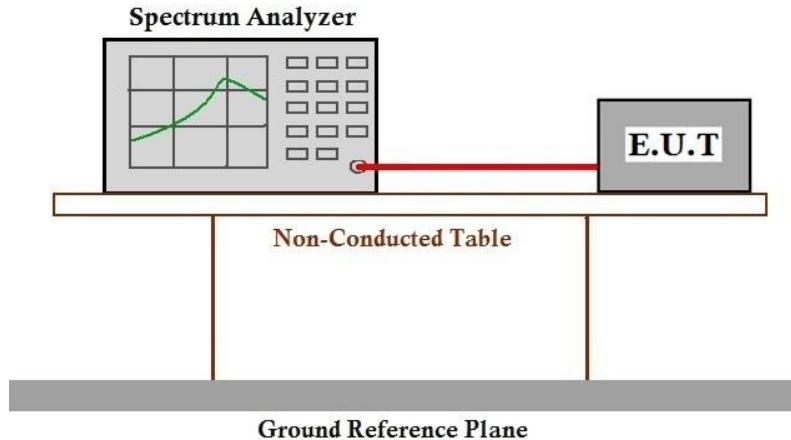


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7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

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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 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

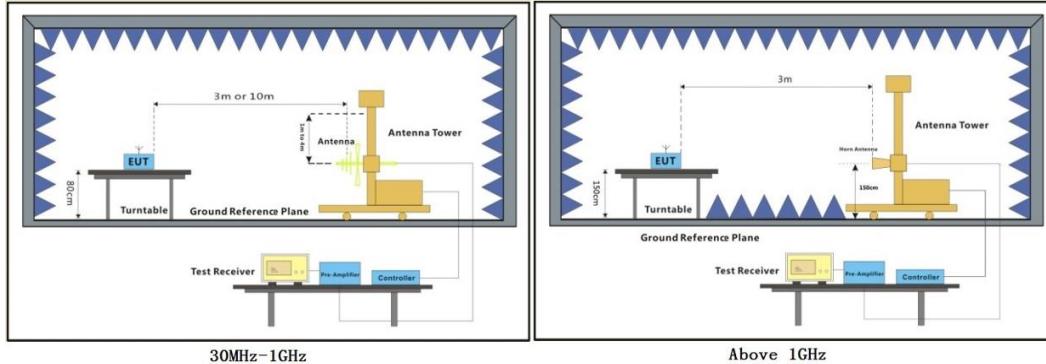
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

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7.7.3 Test Setup Diagram**7.7.4 Measurement Procedure and Data**

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

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

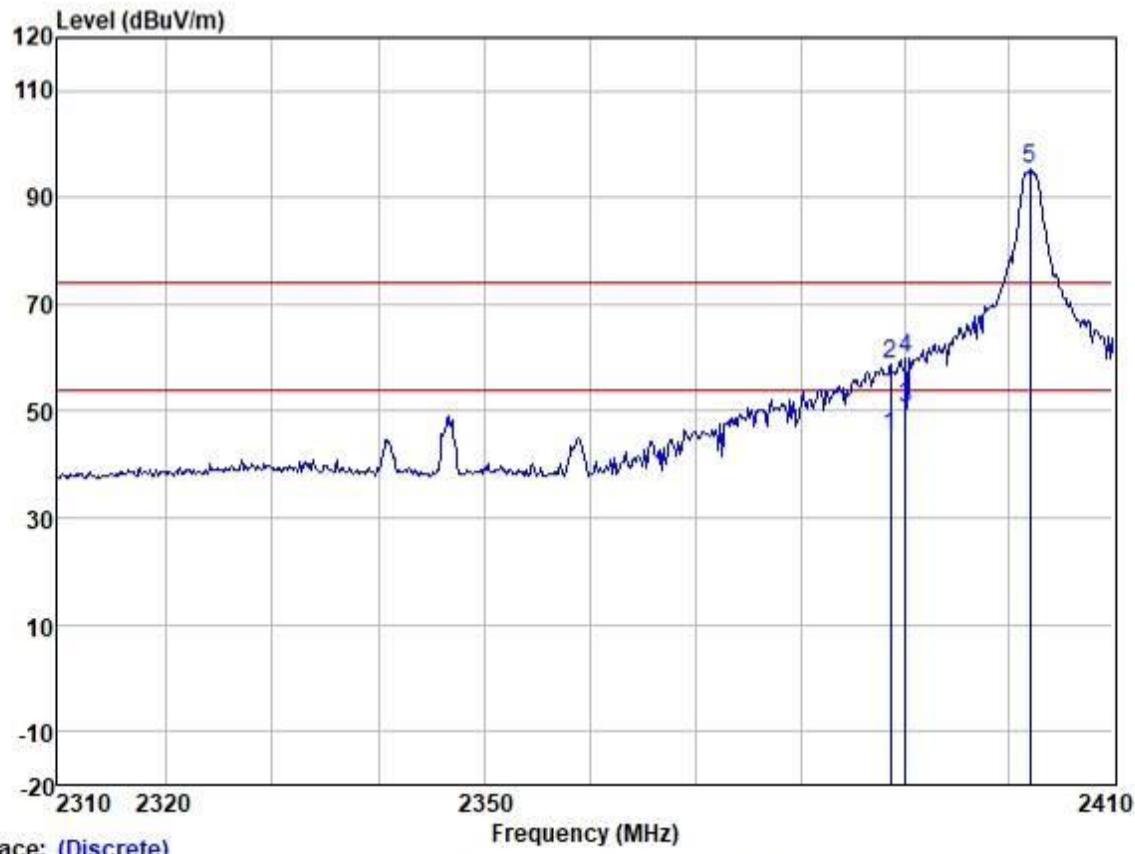
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB					
1	2388.546	51.49	27.68	3.77	37.77	45.17	54.00	-8.83	VERTICAL Average
2	2388.546	65.05	27.68	3.77	37.77	58.73	74.00	-15.27	VERTICAL Peak
3	2390.000	56.69	27.68	3.77	37.76	50.38	54.00	-3.62	VERTICAL Average
4	2390.000	66.25	27.68	3.77	37.76	59.94	74.00	-14.06	VERTICAL Peak
5 *	2402.000	101.49	27.71	3.78	37.76	95.22	74.00	21.22	VERTICAL Peak

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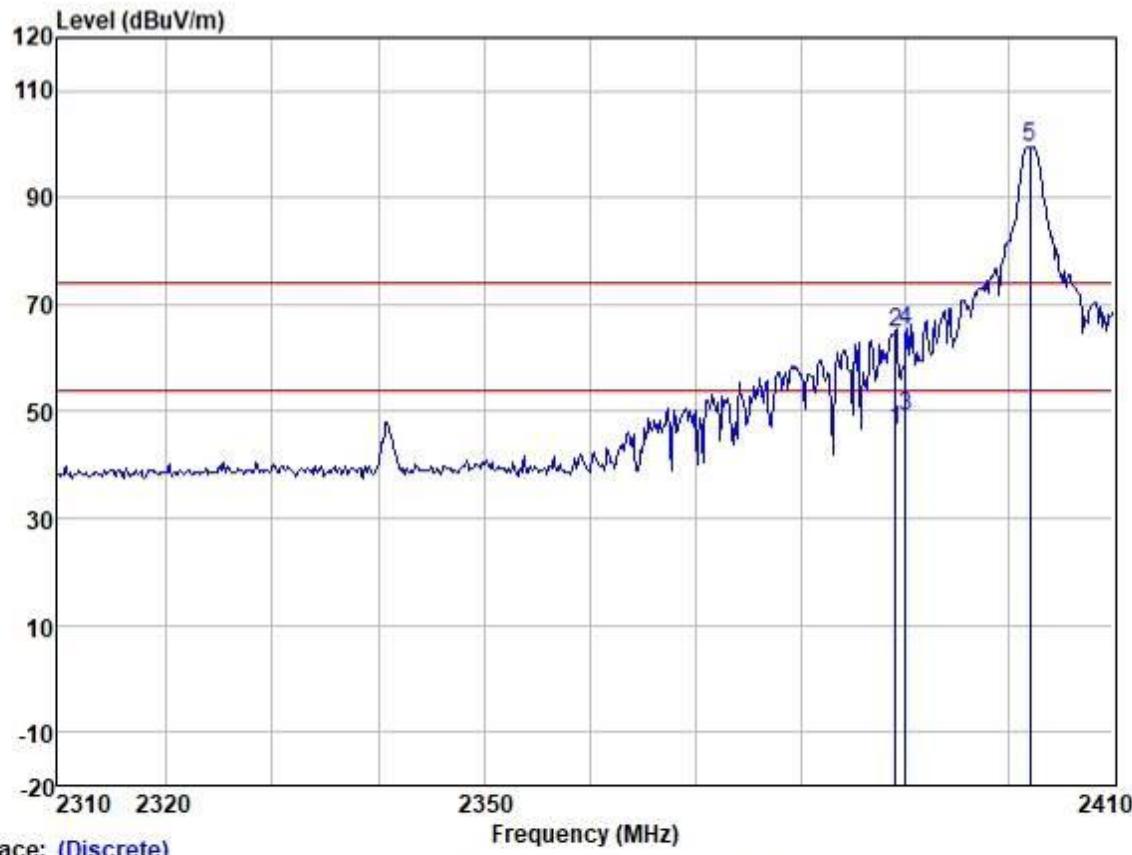
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor			
1	2389.052	52.80	27.68	3.77	37.77	46.48	54.00	-7.52 HORIZONTAL Average
2	2389.052	71.10	27.68	3.77	37.77	64.78	74.00	-9.22 HORIZONTAL Peak
3	2390.000	55.34	27.68	3.77	37.76	49.03	54.00	-4.97 HORIZONTAL Average
4	2390.000	71.45	27.68	3.77	37.76	65.14	74.00	-8.86 HORIZONTAL Peak
5 *	2402.000	105.66	27.71	3.78	37.76	99.39	74.00	25.39 HORIZONTAL Peak

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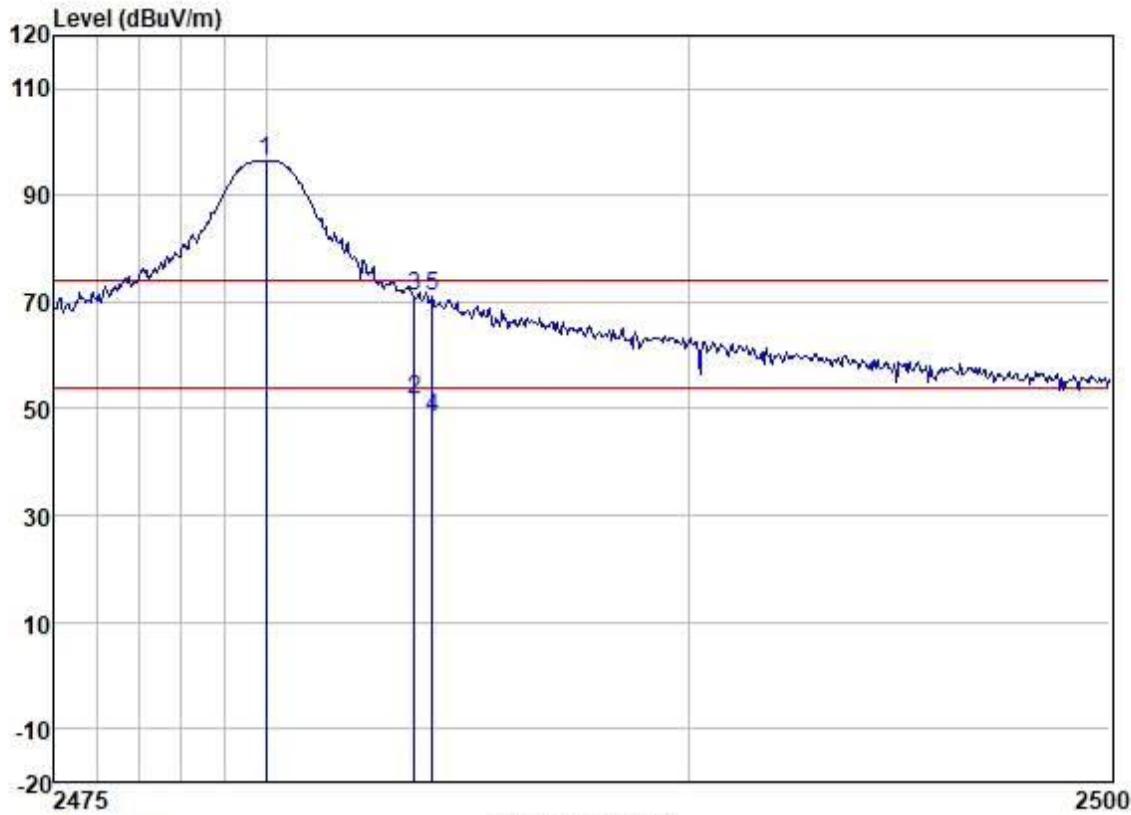
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Trace: (Discrete)

Frequency (MHz)

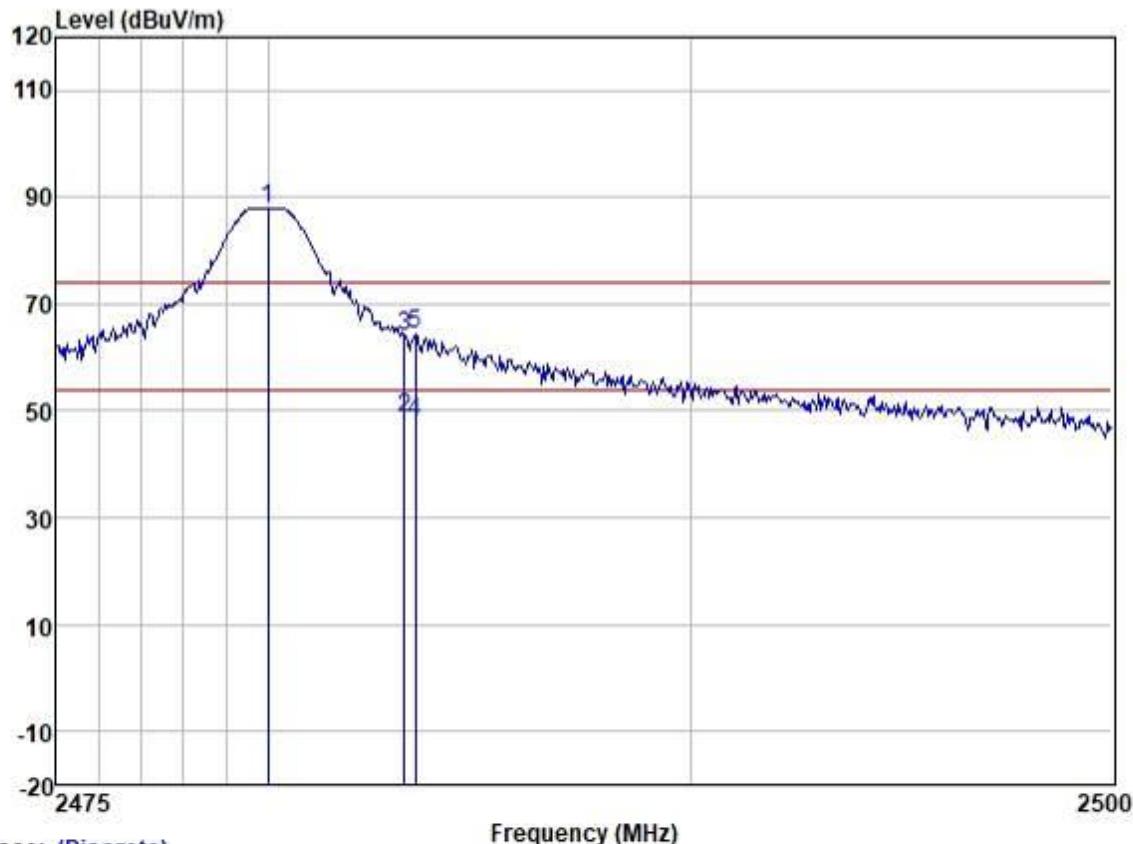
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 * 2480.000	102.50	27.84	3.82	37.73	96.43	74.00	22.43 HORIZONTAL Peak
2 2483.500	57.58	27.85	3.82	37.73	51.52	54.00	-2.48 HORIZONTAL Average
3 2483.500	76.97	27.85	3.82	37.73	70.91	74.00	-3.09 HORIZONTAL Peak
4 2483.921	54.31	27.85	3.82	37.73	48.25	54.00	-5.75 HORIZONTAL Average
5 2483.921	77.31	27.85	3.82	37.73	71.25	74.00	-2.75 HORIZONTAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 *	2480.000	94.14	27.84	3.82	37.73	88.07	74.00	14.07	VERTICAL	Peak
2	2483.222	54.92	27.85	3.82	37.73	48.86	54.00	-5.14	VERTICAL	Average
3	2483.222	70.08	27.85	3.82	37.73	64.02	74.00	-9.98	VERTICAL	Peak
4	2483.472	53.93	27.85	3.82	37.73	47.87	54.00	-6.13	VERTICAL	Average
5	2483.472	70.28	27.85	3.82	37.73	64.22	74.00	-9.78	VERTICAL	Peak

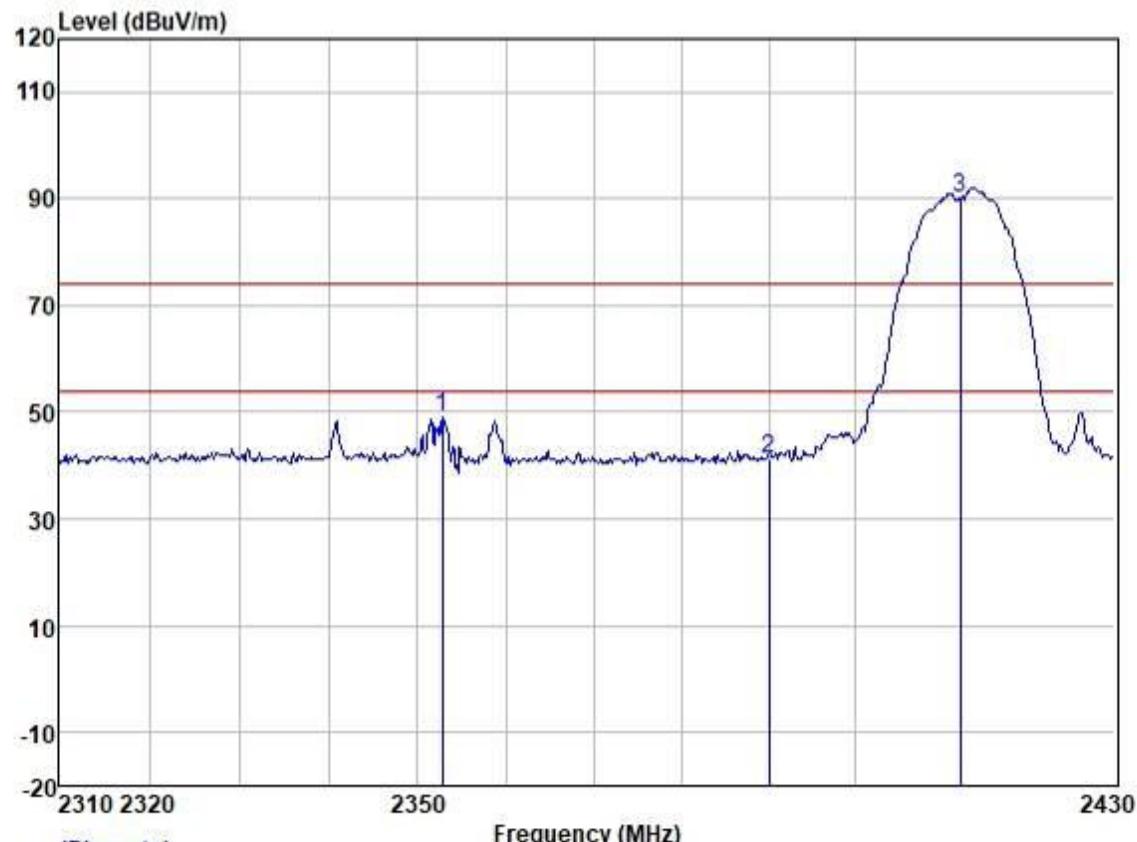
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level Factor	Loss Factor	Level				
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1 2352.859	54.77	27.61	4.53	37.78	49.13	74.00	-24.87 VERTICAL Peak
2 2390.000	47.05	27.68	4.22	37.76	41.19	74.00	-32.81 VERTICAL Peak
3 * 2412.000	96.12	27.74	4.02	37.76	90.12	74.00	16.12 VERTICAL Peak

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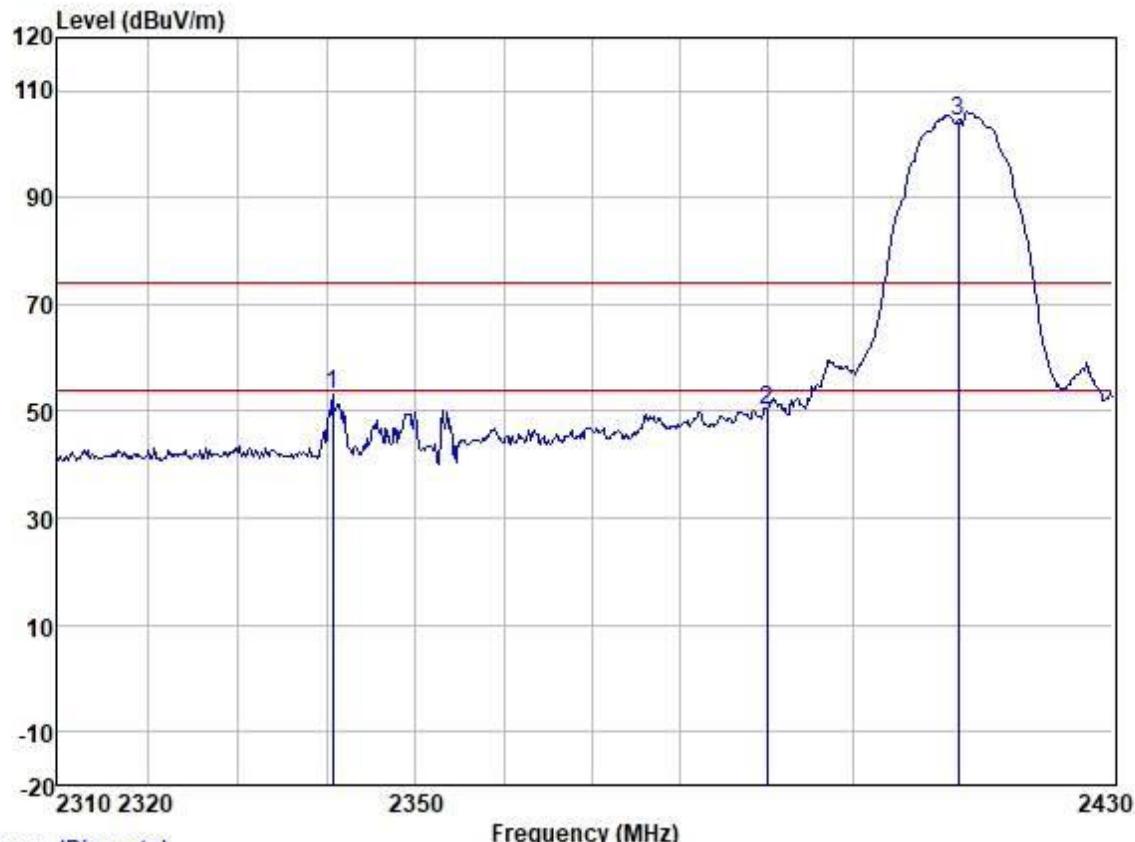
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Race:	Freq	ReadAntenna		Cable		Limit	Over	Over	Remark
		Level	Factor	Loss	Preamp				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2340.736	58.76	27.57	4.68	37.78	53.23	74.00	-20.77	HORIZONTAL Peak
2	2390.000	56.09	27.68	4.22	37.76	50.23	74.00	-23.77	HORIZONTAL Peak
3 *	2412.000	110.27	27.74	4.02	37.76	104.27	74.00	30.27	HORIZONTAL Peak

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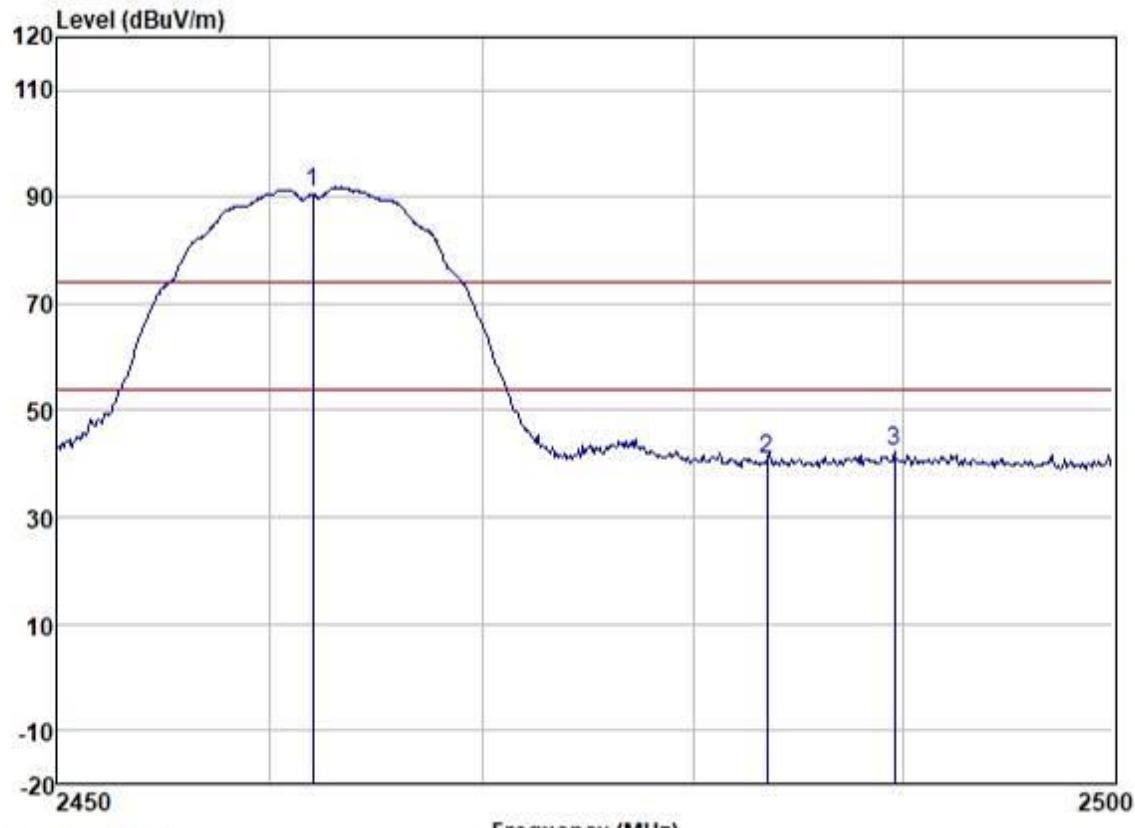
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Loss	Factor				
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1 * 2462.000	97.12	27.82	3.64	37.74	90.84	74.00	16.84 VERTICAL Peak
2 2483.500	47.13	27.85	3.42	37.73	40.67	74.00	-33.33 VERTICAL Peak
3 2489.567	48.85	27.86	3.33	37.73	42.31	74.00	-31.69 VERTICAL Peak

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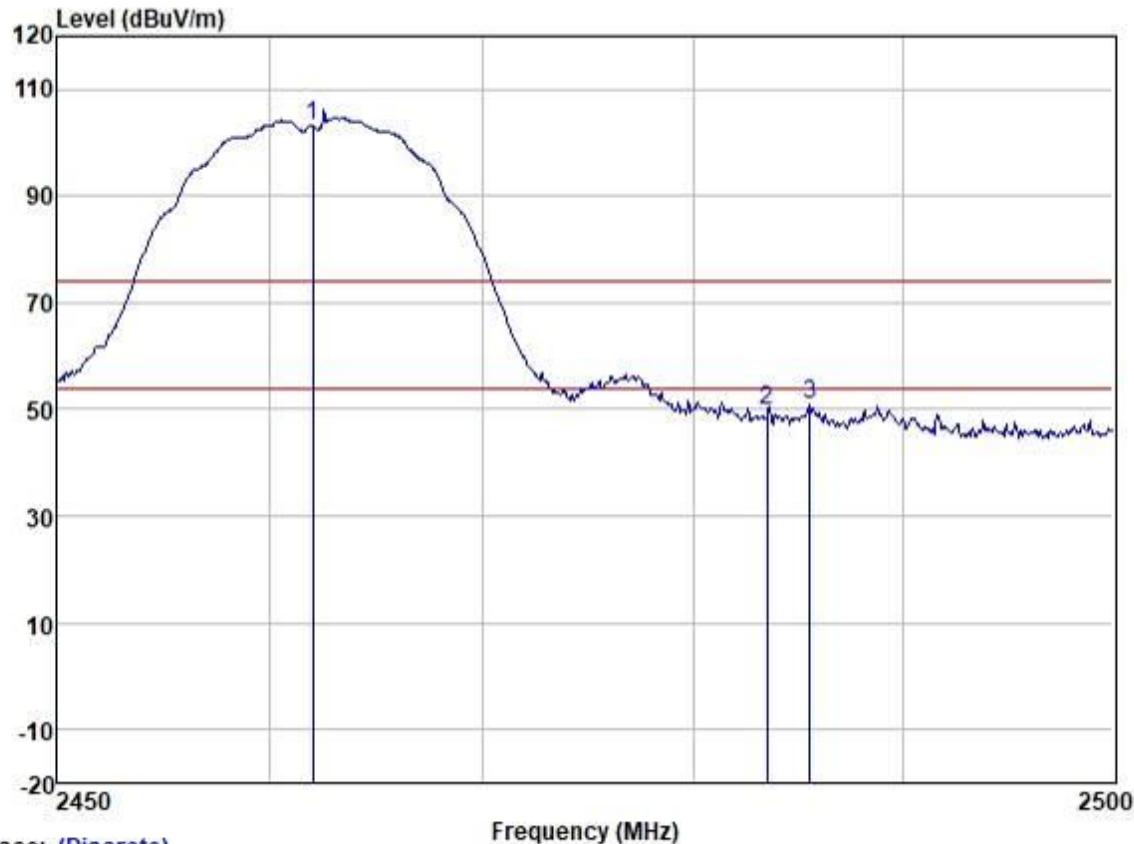
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Type: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 * 2462.000	109.54	27.82	3.64	37.74	103.26	74.00	29.26	HORIZONTAL	Peak	
2 2483.500	56.14	27.85	3.42	37.73	49.68	74.00	-24.32	HORIZONTAL	Peak	
3 2485.546	57.23	27.85	3.42	37.73	50.77	74.00	-23.23	HORIZONTAL	Peak	

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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

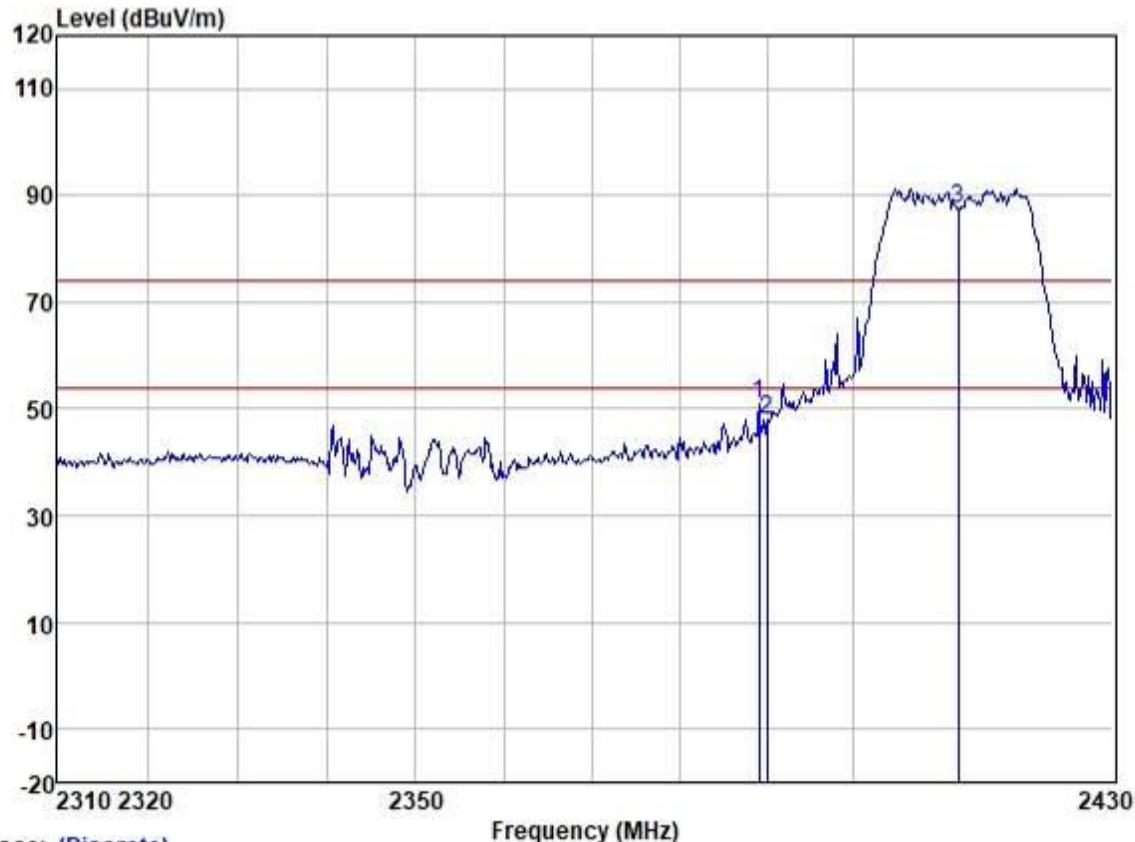


Table: (Discrete)

Race:	Freq	ReadAntenna		Cable		Preamp	Level	Limit	Over	Over	Remark
		Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1	2389.121	56.92	27.68	4.22	37.77	51.05	74.00	-22.95	VERTICAL	Peak	
2	2390.000	53.89	27.68	4.22	37.76	48.03	74.00	-25.97	VERTICAL	Peak	
3 *	2412.000	93.38	27.74	4.02	37.76	87.38	74.00	13.38	VERTICAL	Peak	

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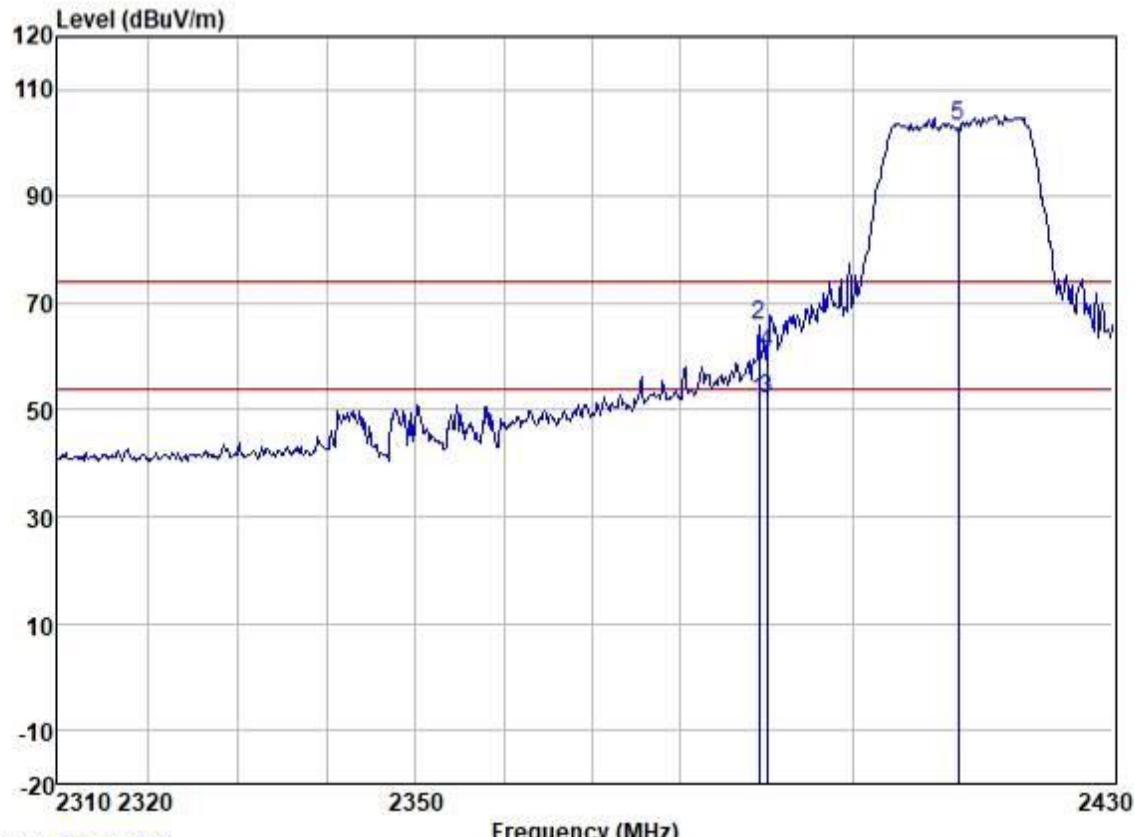
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Frequency (MHz)

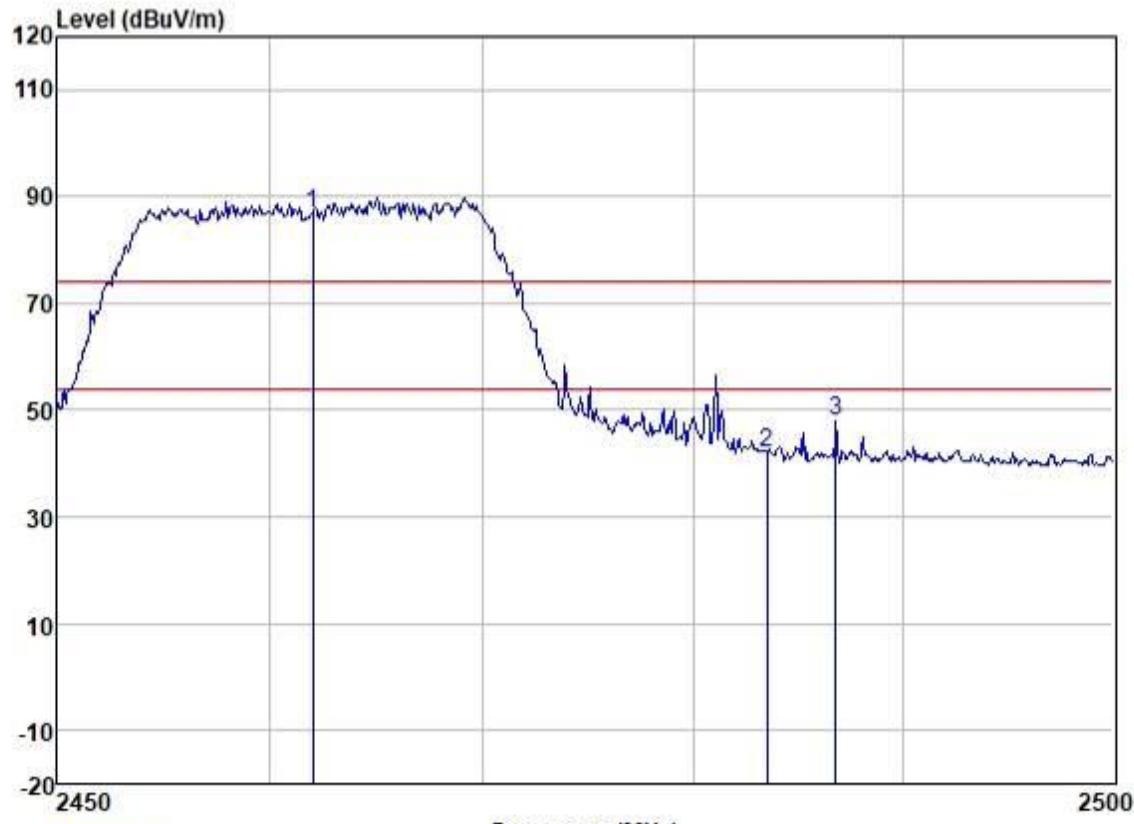
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2389.121	57.72	27.68	4.22	37.77	51.85	54.00	-2.15 HORIZONTAL Average
2	2389.121	71.63	27.68	4.22	37.77	65.76	74.00	-8.24 HORIZONTAL Peak
3	2390.000	57.80	27.68	4.22	37.76	51.94	54.00	-2.06 HORIZONTAL Average
4	2390.000	66.58	27.68	4.22	37.76	60.72	74.00	-13.28 HORIZONTAL Peak
5 *	2412.000	109.19	27.74	4.02	37.76	103.19	74.00	29.19 HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Frequency (MHz)

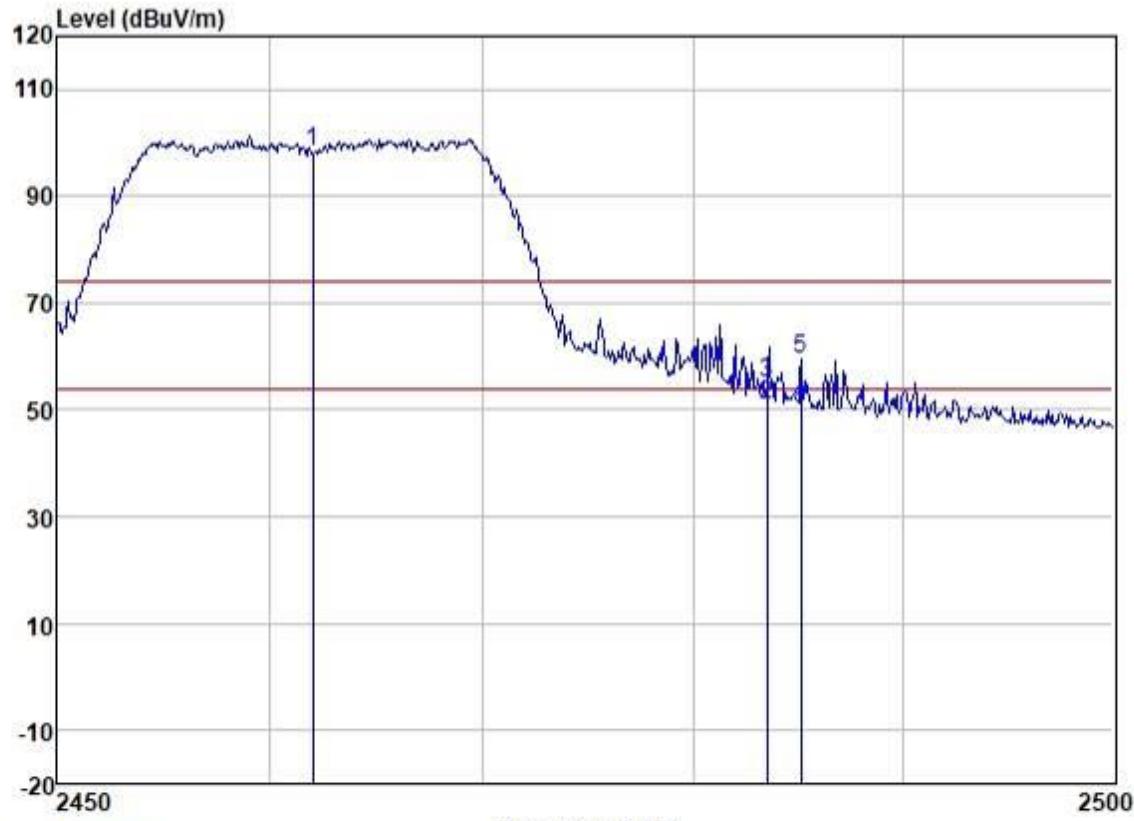
Freq	ReadAntenna Level	Factor	Cable Preamp			Limit Line	Over Line	Pol/Phase	Remark
			Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2462.000	93.17	27.82	3.64	37.74	86.89	74.00	12.89	VERTICAL	Peak
2 2483.500	48.45	27.85	3.42	37.73	41.99	74.00	-32.01	VERTICAL	Peak
3 2486.752	54.41	27.85	3.42	37.73	47.95	74.00	-26.05	VERTICAL	Peak



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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
1 * 2462.000	104.51	27.82	3.64	37.74	98.23	74.00	24.23	HORIZONTAL	Peak	
2 2483.500	57.40	27.85	3.42	37.73	50.94	54.00	-3.06	HORIZONTAL	Average	
3 2483.500	61.62	27.85	3.42	37.73	55.16	74.00	-18.84	HORIZONTAL	Peak	
4 2485.095	57.41	27.85	3.42	37.73	50.95	54.00	-3.05	HORIZONTAL	Average	
5 2485.095	65.97	27.85	3.42	37.73	59.51	74.00	-14.49	HORIZONTAL	Peak	

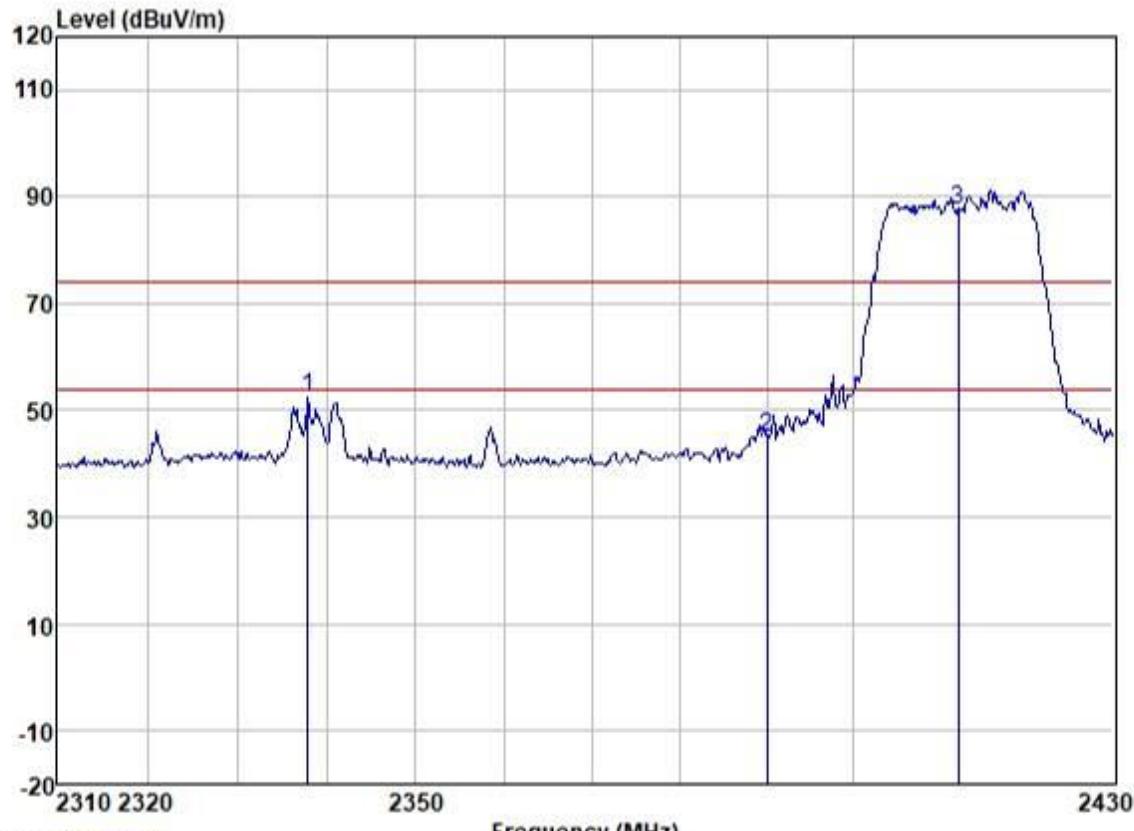
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



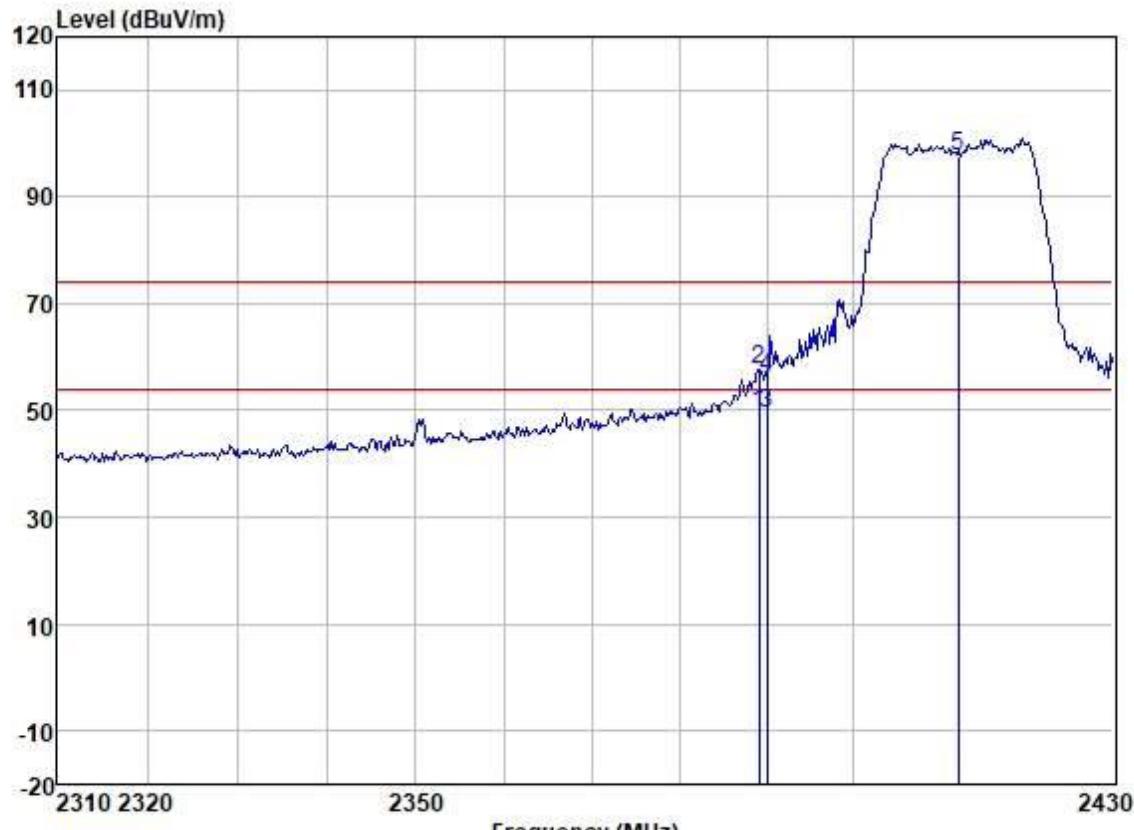
Race:	Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2337.893	58.08	27.57	4.68	37.79	52.54	74.00	-21.46	VERTICAL	Peak	
2	2390.000	50.93	27.68	4.22	37.76	45.07	74.00	-28.93	VERTICAL	Peak	
3 *	2412.000	93.38	27.74	4.02	37.76	87.38	74.00	13.38	VERTICAL	Peak	

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Line	dB	
1	2389.121	55.21	27.68	4.22	37.77	49.34	54.00	-4.66	HORIZONTAL	Average
2	2389.121	63.61	27.68	4.22	37.77	57.74	74.00	-16.26	HORIZONTAL	Peak
3	2390.000	55.24	27.68	4.22	37.76	49.38	54.00	-4.62	HORIZONTAL	Average
4	2390.000	61.92	27.68	4.22	37.76	56.06	74.00	-17.94	HORIZONTAL	Peak
5 *	2412.000	103.65	27.74	4.02	37.76	97.65	74.00	23.65	HORIZONTAL	Peak

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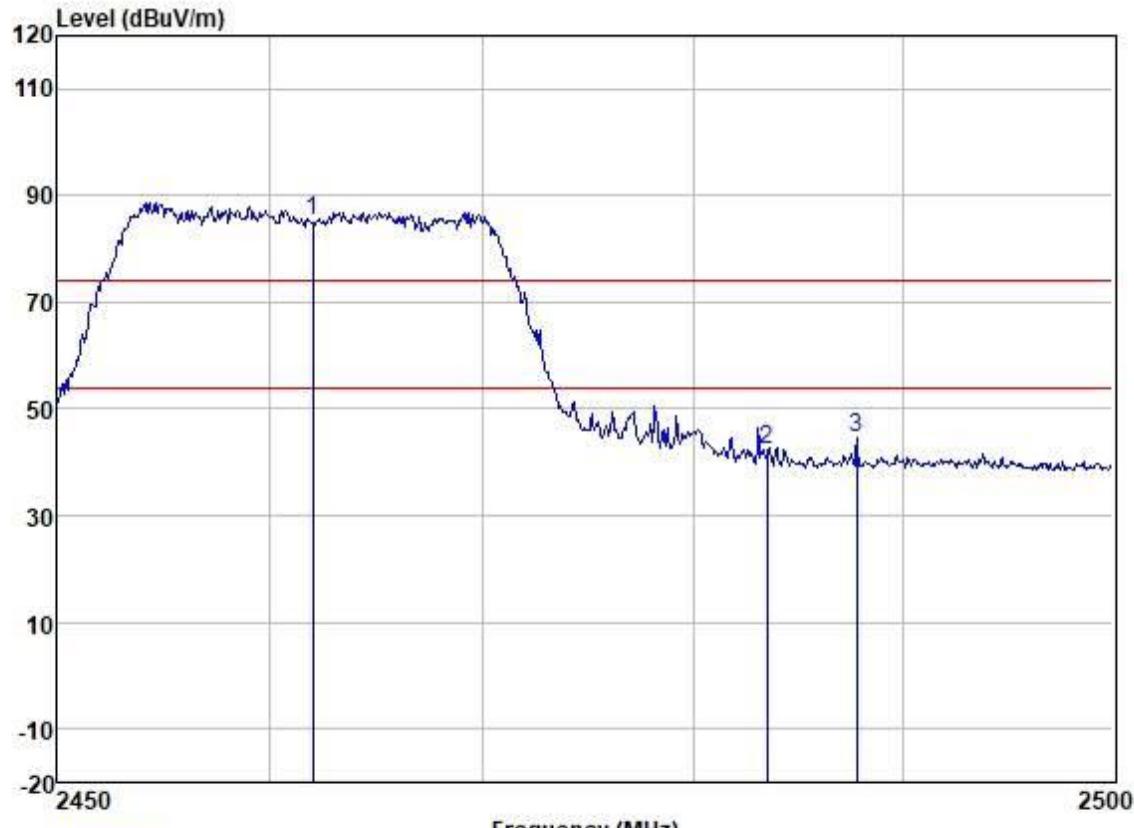


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Frequency (MHz)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 * 2462.000	91.59	27.82	3.64	37.74	85.31	74.00	11.31 VERTICAL Peak
2 2483.500	48.69	27.85	3.42	37.73	42.23	74.00	-31.77 VERTICAL Peak
3 2487.757	51.06	27.85	3.42	37.73	44.60	74.00	-29.40 VERTICAL Peak

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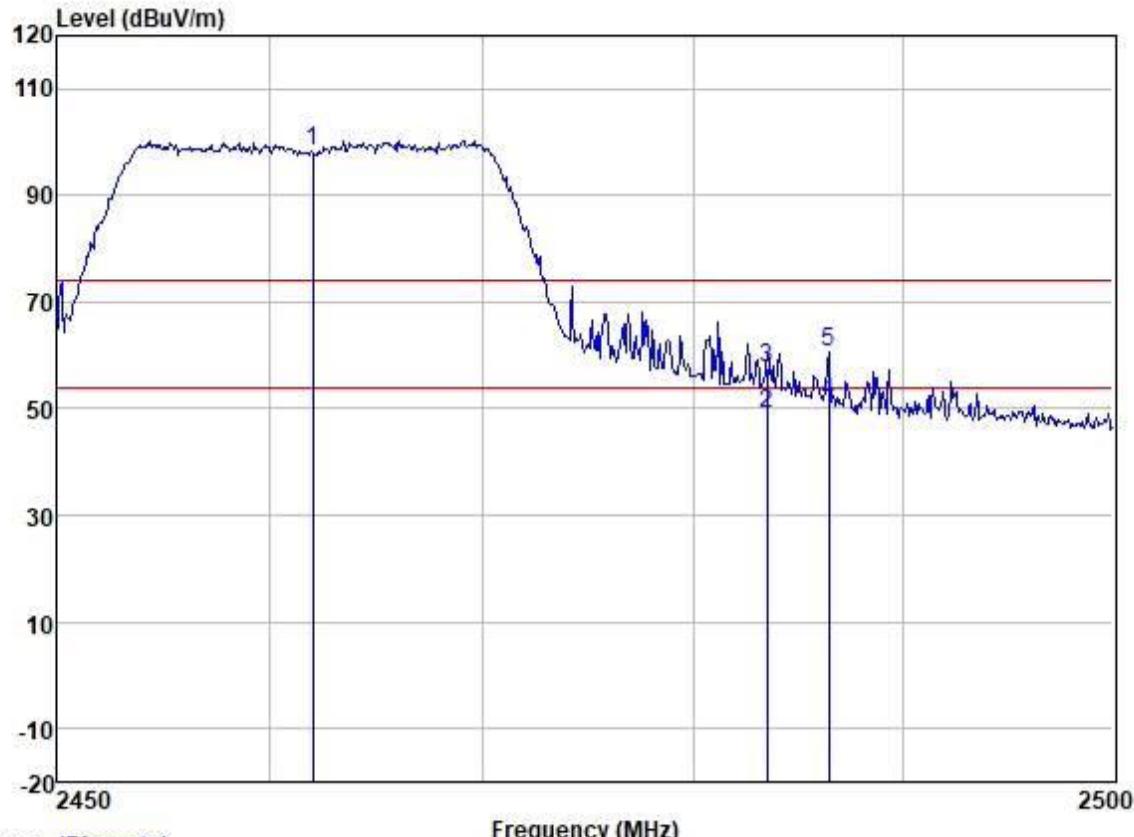
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
1 * 2462.000	104.48	27.82	3.64	37.74	98.20	74.00	24.20	HORIZONTAL	Peak	
2 2483.500	55.54	27.85	3.42	37.73	49.08	54.00	-4.92	HORIZONTAL	Average	
3 2483.500	64.28	27.85	3.42	37.73	57.82	74.00	-16.18	HORIZONTAL	Peak	
4 2486.450	57.76	27.85	3.42	37.73	51.30	54.00	-2.70	HORIZONTAL	Average	
5 2486.450	67.24	27.85	3.42	37.73	60.78	74.00	-13.22	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

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 56.3 % RH Atmospheric Pressure: 1000 mbar

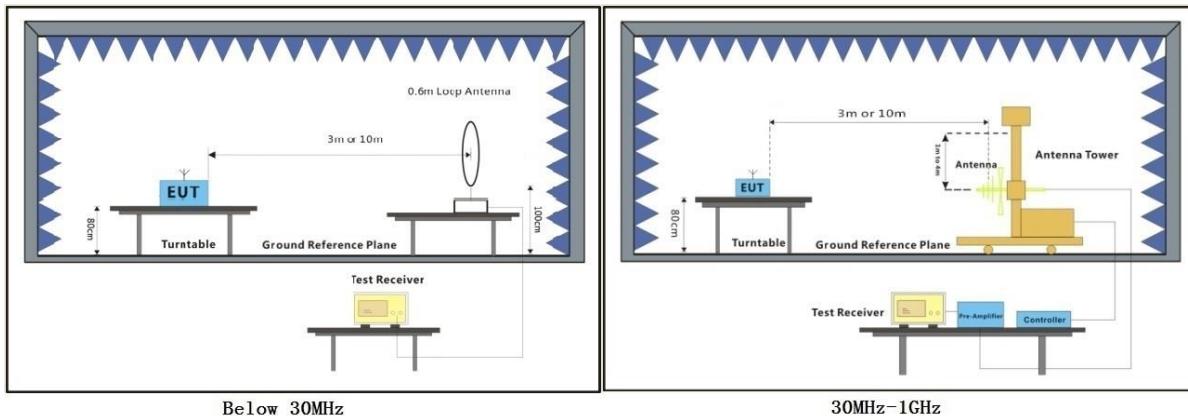
7.8.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

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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:

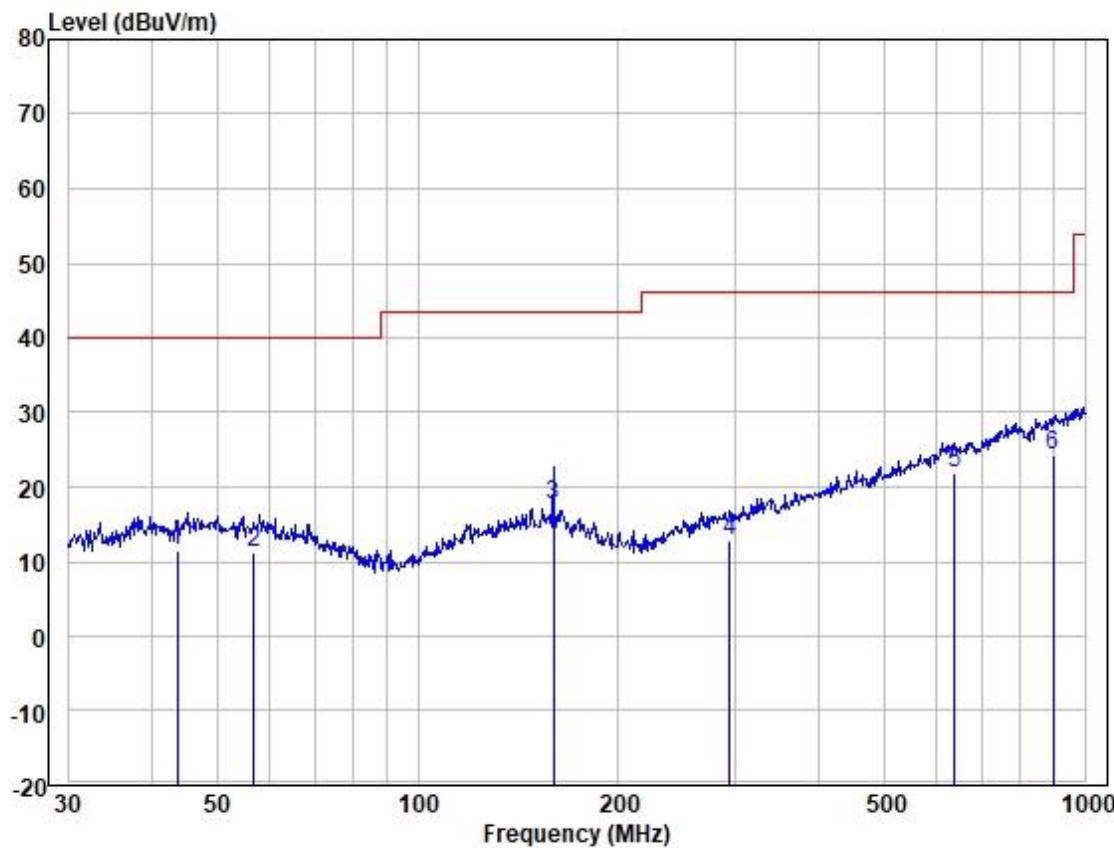
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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: 00; Polarity: Vertical



Site : 966 chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	43.659	24.56	19.38	0.37	32.81	11.50	40.00	-28.50	VERTICAL QP
2	56.792	24.63	19.08	0.40	32.80	11.31	40.00	-28.69	VERTICAL QP
3	159.784	30.58	19.21	0.70	32.80	17.69	43.52	-25.83	VERTICAL QP
4	293.084	25.52	19.13	0.97	32.80	12.82	46.02	-33.20	VERTICAL QP
5	638.369	26.85	26.52	1.46	32.84	21.99	46.02	-24.03	VERTICAL QP
6	896.997	24.83	29.33	1.76	31.61	24.31	46.02	-21.71	VERTICAL QP

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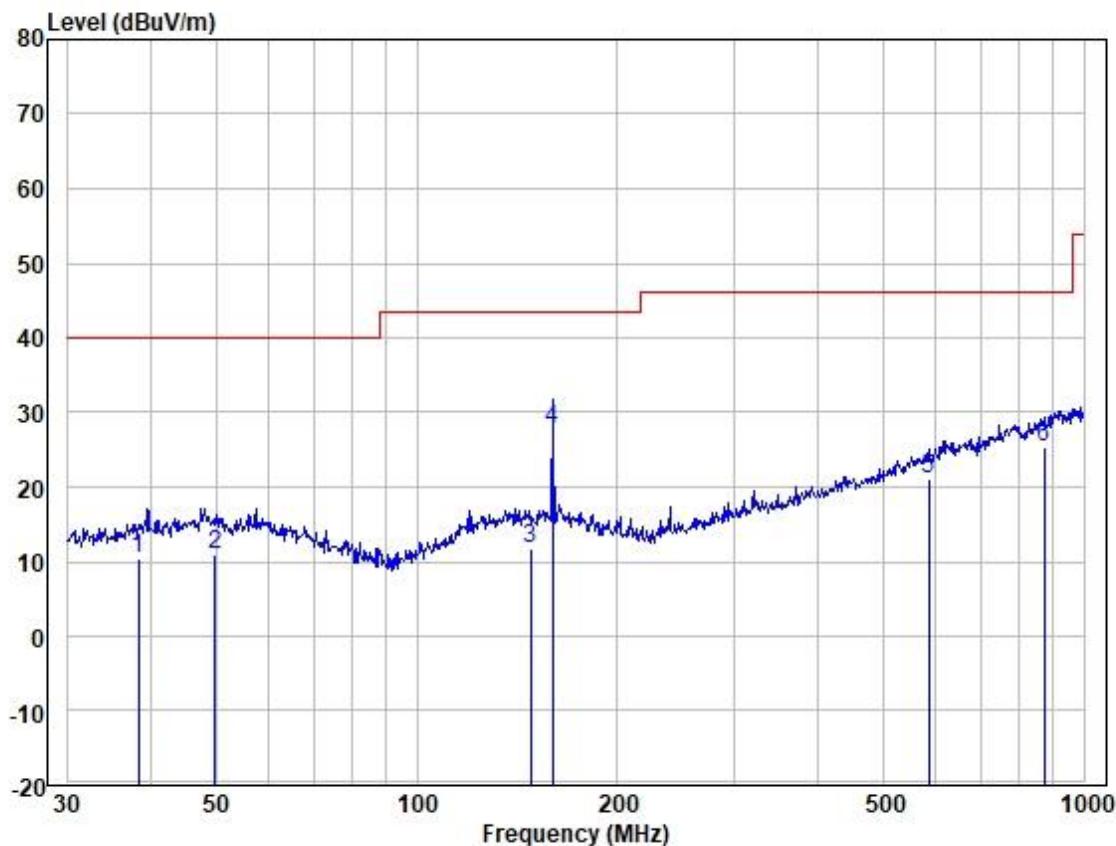
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Test Mode: 00; Polarity: Horizontal



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	38.346	23.92	18.93	0.34	32.84	10.35	40.00	-29.65	HORIZONTAL QP
2	49.881	23.75	19.53	0.39	32.80	10.87	40.00	-29.13	HORIZONTAL QP
3	147.921	24.84	18.96	0.66	32.80	11.66	43.52	-31.86	HORIZONTAL QP
4	159.784	40.60	19.21	0.70	32.80	27.71	43.52	-15.81	HORIZONTAL QP
5	584.790	27.26	25.32	1.42	32.90	21.10	46.02	-24.92	HORIZONTAL QP
6	872.183	26.19	29.04	1.74	31.72	25.25	46.02	-20.77	HORIZONTAL QP

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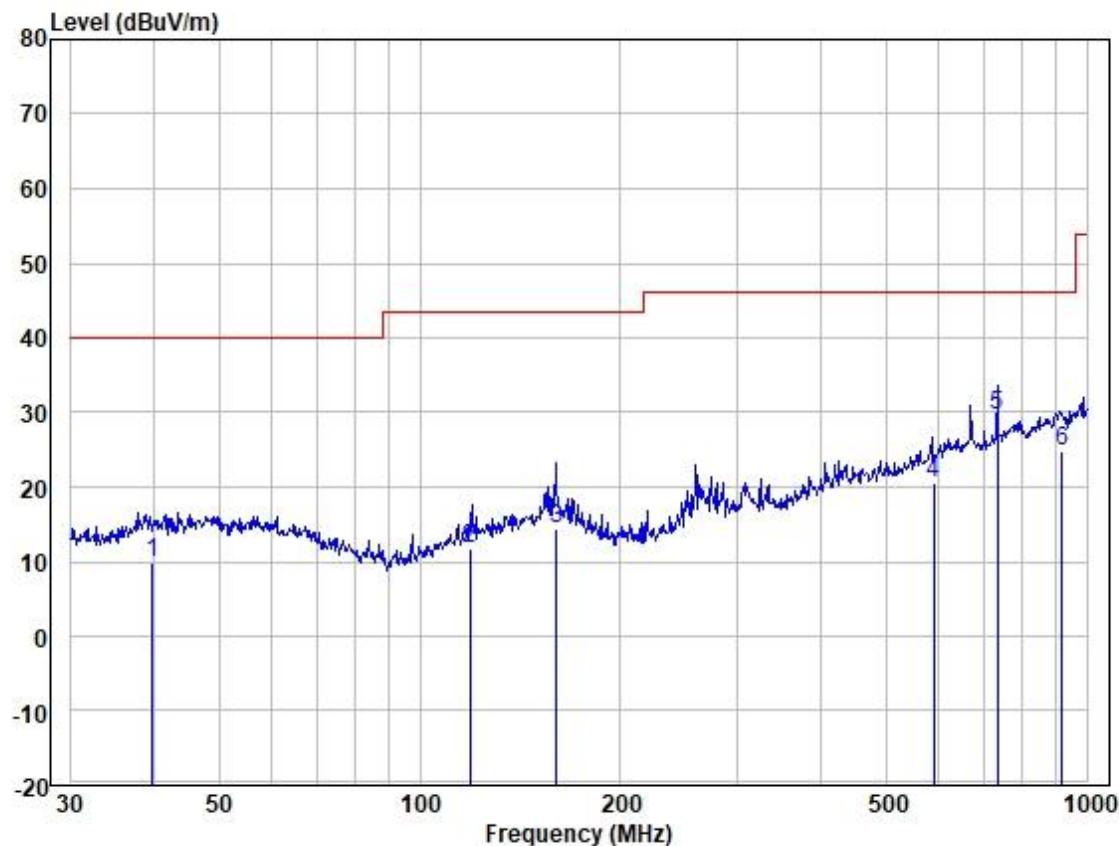
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Test Mode: 01; Polarity: Vertical



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dBs/m	dB	dB	dBuA/m	dBuA/m	dB		
1	39.715	23.27	19.09	0.35	32.83	9.88	40.00	-30.12	VERTICAL QP
2	119.018	26.71	17.15	0.60	32.80	11.66	43.52	-31.86	VERTICAL QP
3	160.346	27.33	19.21	0.70	32.80	14.44	43.52	-29.08	VERTICAL QP
4	588.905	26.73	25.34	1.42	32.90	20.59	46.02	-25.43	VERTICAL QP
5	734.491	33.23	27.52	1.57	32.61	29.71	46.02	-16.31	VERTICAL QP
6	916.069	25.15	29.50	1.77	31.52	24.90	46.02	-21.12	VERTICAL QP

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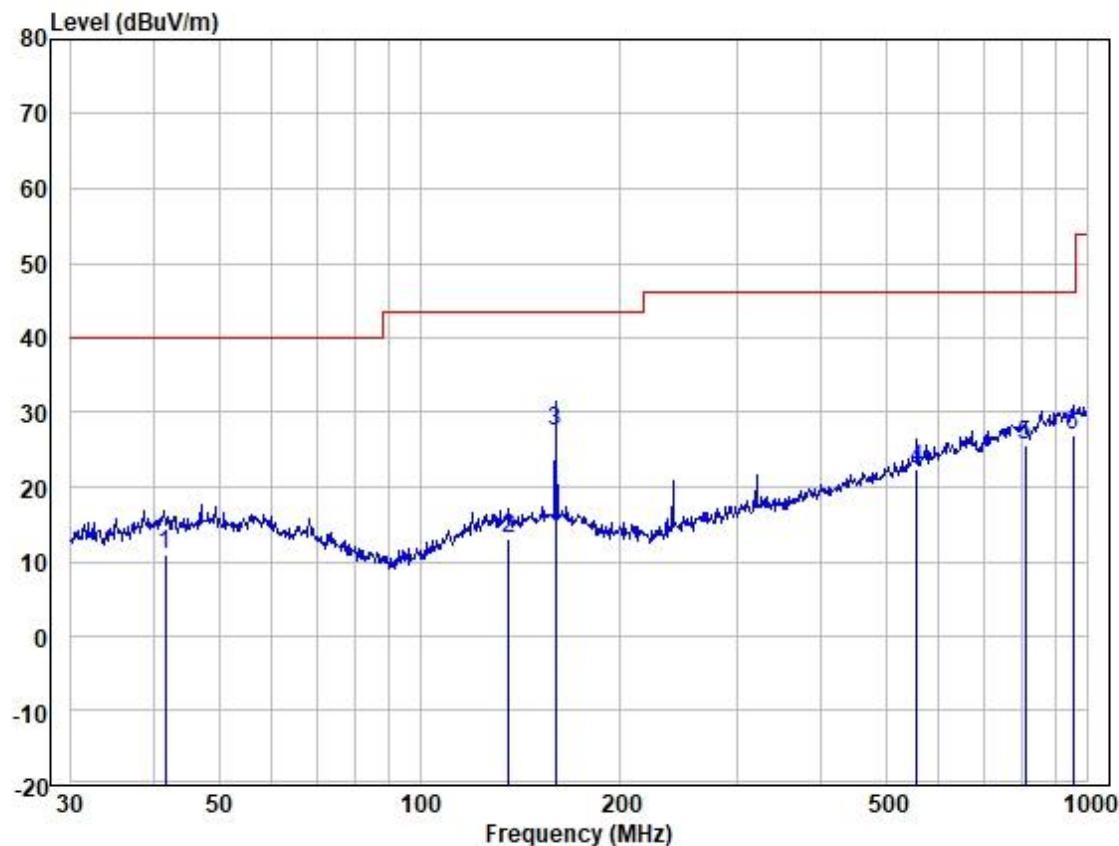
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Test Mode: 01; Polarity: Horizontal



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	41.567	24.25	19.23	0.36	32.82	11.02	40.00	-28.98	HORIZONTAL QP
2	135.982	26.66	18.46	0.63	32.80	12.95	43.52	-30.57	HORIZONTAL QP
3	159.784	40.43	19.21	0.70	32.80	27.54	43.52	-15.98	HORIZONTAL QP
4	554.825	29.37	24.42	1.38	32.90	22.27	46.02	-23.75	HORIZONTAL QP
5	807.429	28.19	28.06	1.66	32.28	25.63	46.02	-20.39	HORIZONTAL QP
6	952.094	26.51	29.76	1.80	31.10	26.97	46.02	-19.05	HORIZONTAL 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

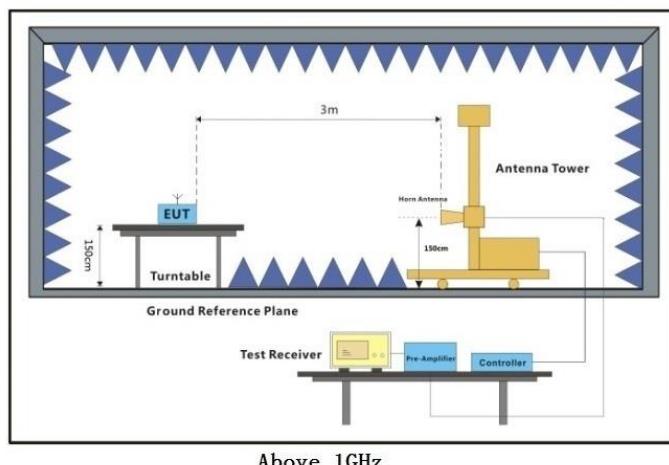
Operating Environment:

Temperature: 24.1 °C Humidity: 53.6 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	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.

7.9.3 Test Setup Diagram



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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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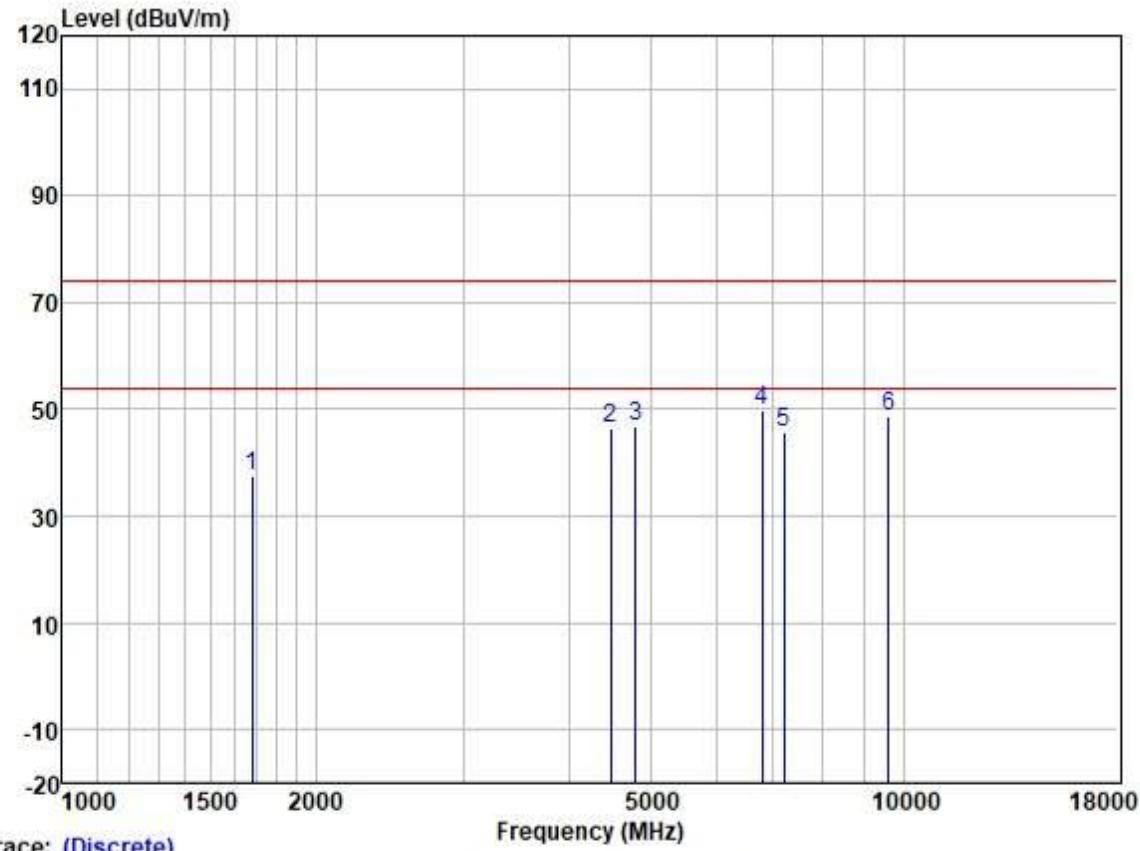
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:Low



Trace: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1682.477	47.51	25.03	3.06	37.93	37.67	74.00	-36.33 VERTICAL peak
2 4482.150	44.24	34.12	4.78	36.83	46.31	74.00	-27.69 VERTICAL peak
3 4804.000	44.25	34.16	5.15	36.86	46.70	74.00	-27.30 VERTICAL peak
4 6795.879	45.04	34.69	6.97	37.06	49.64	74.00	-24.36 VERTICAL peak
5 7206.000	40.23	35.63	6.96	37.13	45.69	74.00	-28.31 VERTICAL peak
6 9608.000	39.27	38.68	7.65	37.02	48.58	74.00	-25.42 VERTICAL peak

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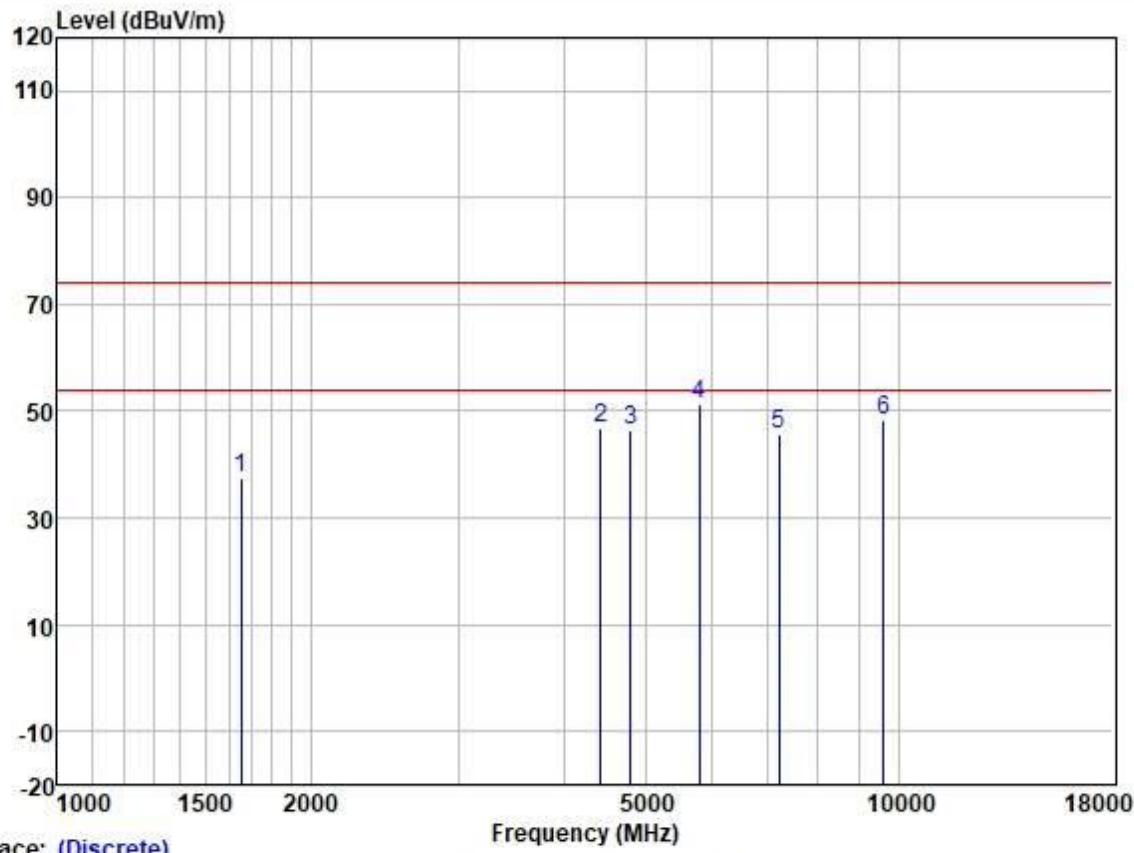
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Mode: (Discrete)

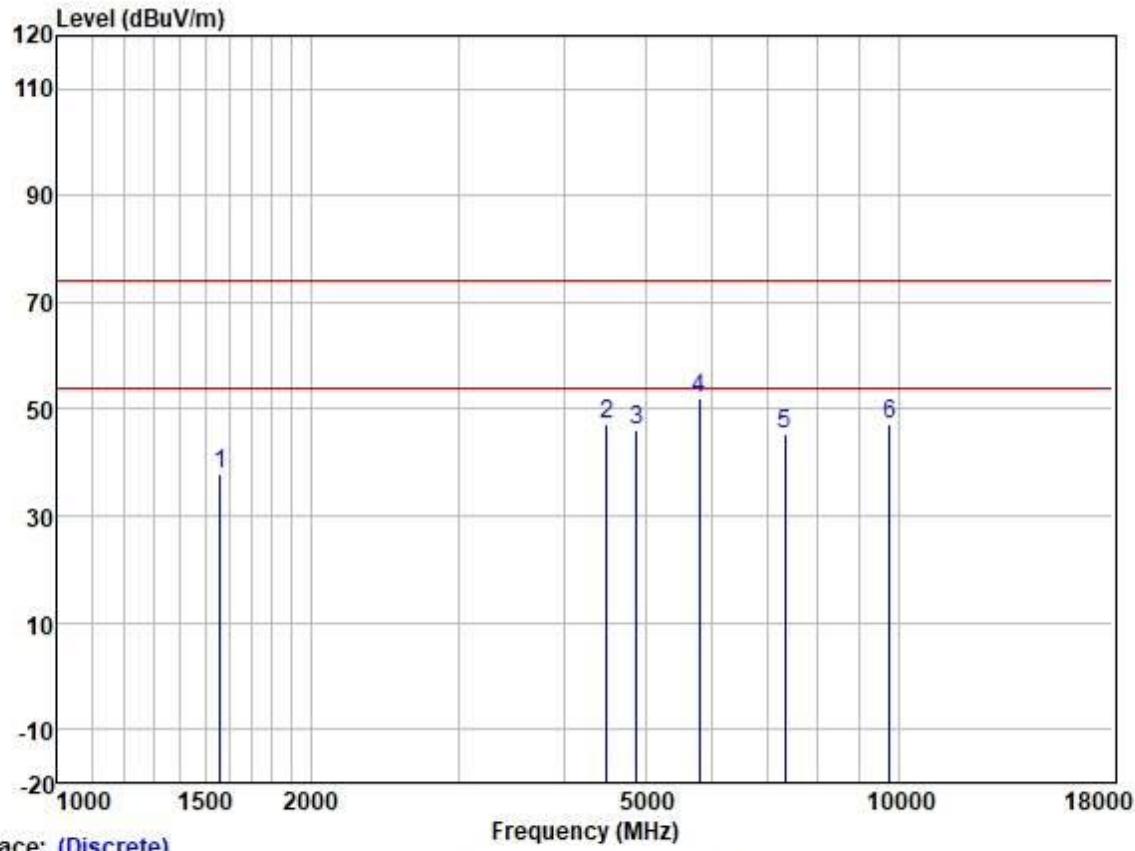
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1653.550	47.52	24.89	3.03	37.93	37.51	74.00	-36.49	HORIZONTAL peak
2 4430.628	44.85	33.87	4.79	36.83	46.68	74.00	-27.32	HORIZONTAL peak
3 4804.000	43.85	34.16	5.15	36.86	46.30	74.00	-27.70	HORIZONTAL peak
4 5797.032	49.83	32.67	5.77	36.99	51.28	74.00	-22.72	HORIZONTAL peak
5 7206.000	40.30	35.63	6.96	37.13	45.76	74.00	-28.24	HORIZONTAL peak
6 9608.000	38.86	38.68	7.65	37.02	48.17	74.00	-25.83	HORIZONTAL peak

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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel:middle



Mode: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1560.673	48.10	24.57	2.97	37.94	37.70	74.00	-36.30 VERTICAL peak
2	4495.125	45.24	34.17	4.78	36.83	47.36	74.00	-26.64 VERTICAL peak
3	4880.000	43.68	34.15	5.22	36.87	46.18	74.00	-27.82 VERTICAL peak
4	5797.032	50.73	32.67	5.77	36.99	52.18	74.00	-21.82 VERTICAL peak
5	7320.000	39.59	36.07	6.81	37.15	45.32	74.00	-28.68 VERTICAL peak
6	9760.000	37.86	38.81	7.65	37.01	47.31	74.00	-26.69 VERTICAL peak

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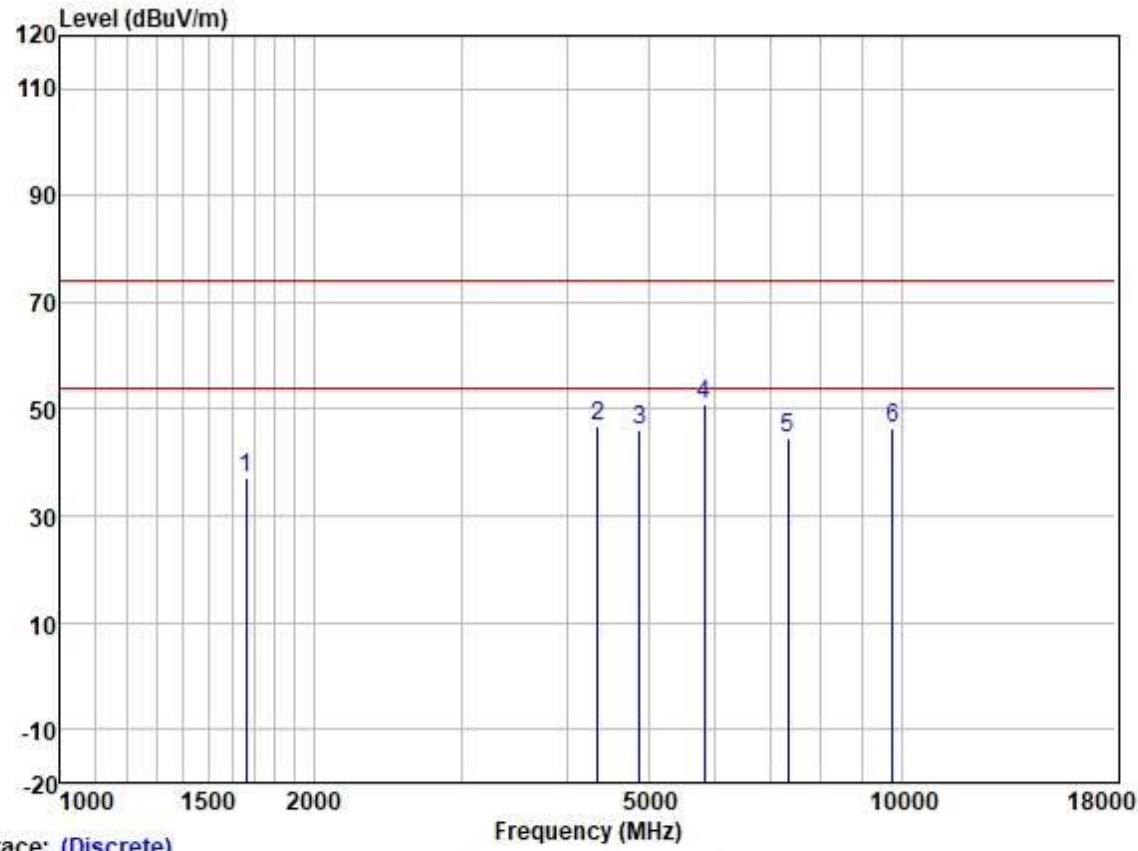
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:middle



Mode: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1663.137	47.24	24.93	3.04	37.93	37.28	74.00	-36.72	HORIZONTAL peak
2 4354.454	45.31	33.43	4.80	36.82	46.72	74.00	-27.28	HORIZONTAL peak
3 4880.000	43.68	34.15	5.22	36.87	46.18	74.00	-27.82	HORIZONTAL peak
4 5830.640	49.49	32.67	5.78	36.99	50.95	74.00	-23.05	HORIZONTAL peak
5 7320.000	38.77	36.07	6.81	37.15	44.50	74.00	-29.50	HORIZONTAL peak
6 9760.000	37.18	38.81	7.65	37.01	46.63	74.00	-27.37	HORIZONTAL peak

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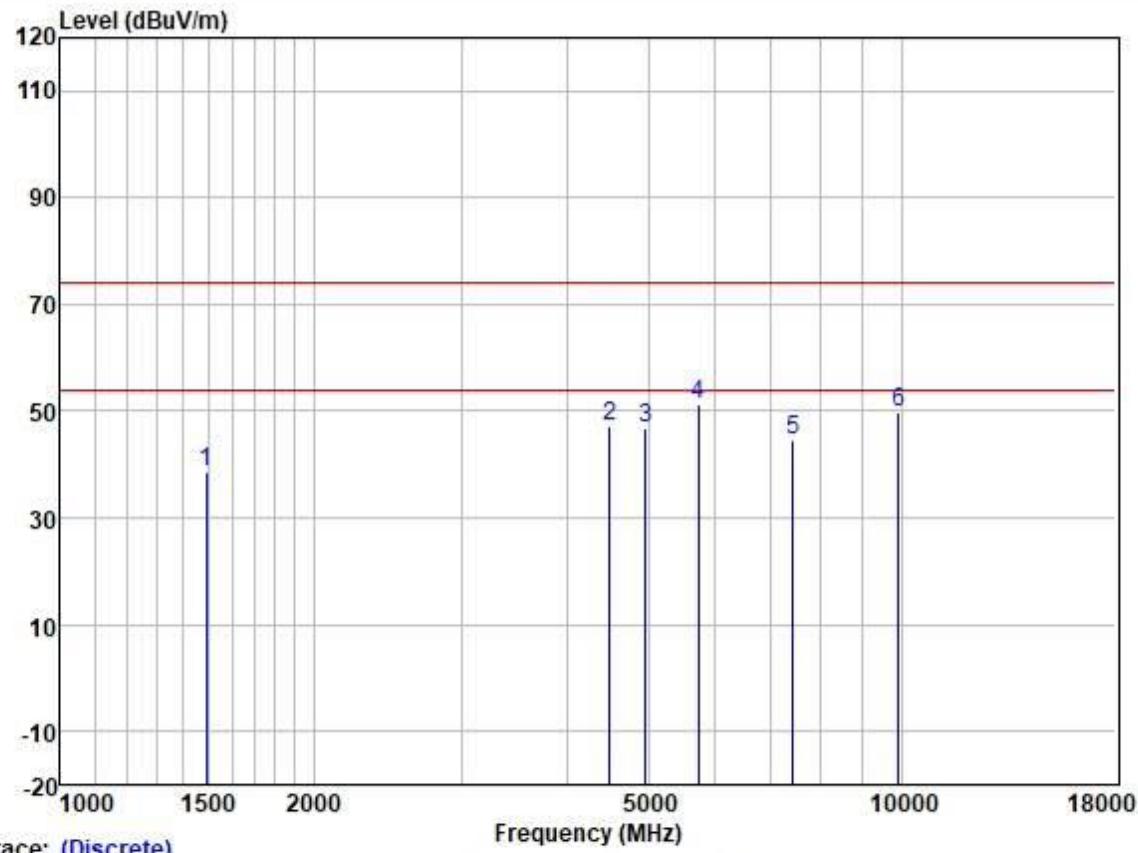
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Trace: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1490.142	49.23	24.42	2.94	37.95	38.64	74.00	-35.36 VERTICAL peak
2	4495.125	45.12	34.17	4.78	36.83	47.24	74.00	-26.76 VERTICAL peak
3	4960.000	44.27	34.15	5.28	36.89	46.81	74.00	-27.19 VERTICAL peak
4	5730.396	49.93	32.65	5.72	36.99	51.31	74.00	-22.69 VERTICAL peak
5	7440.000	38.84	36.33	6.72	37.16	44.73	74.00	-29.27 VERTICAL peak
6	9920.000	40.14	38.95	7.67	37.00	49.76	74.00	-24.24 VERTICAL peak

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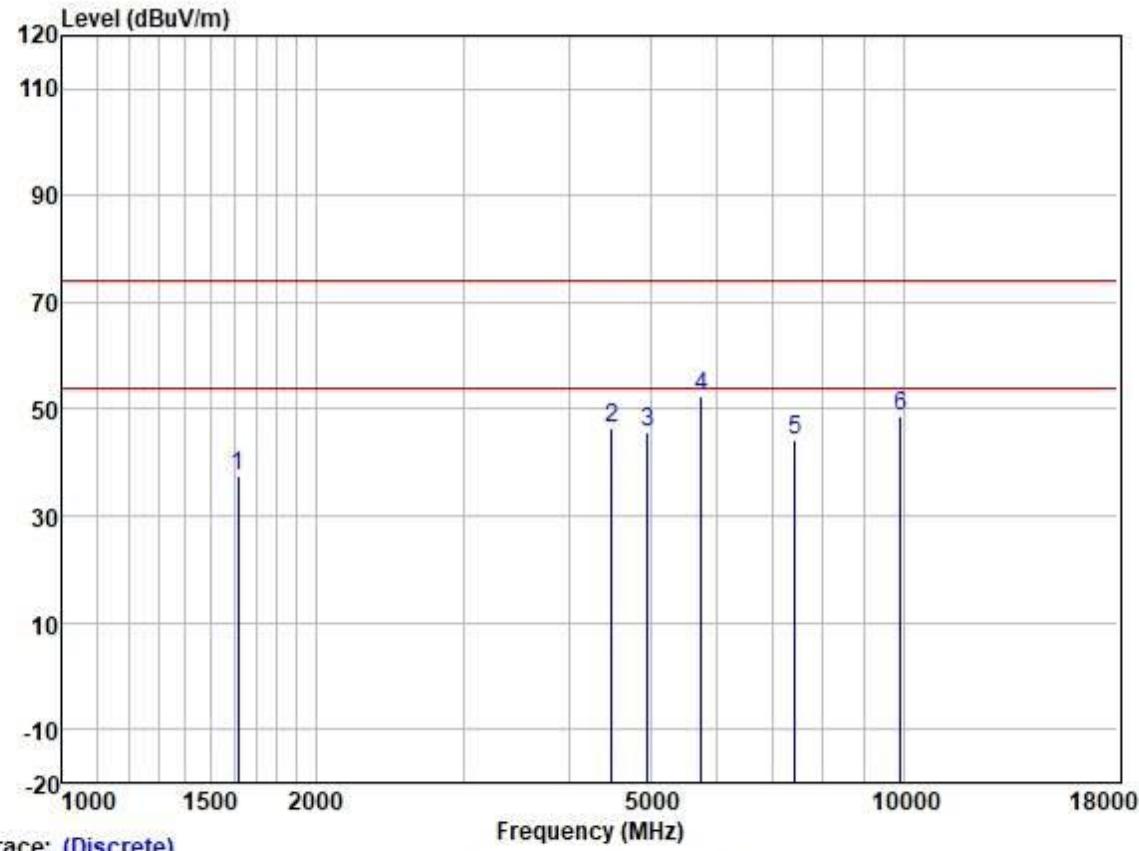
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:High



Mode: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1615.754	47.61	24.74	3.00	37.93	37.42	74.00	-36.58	HORIZONTAL peak
2 4495.125	44.47	34.17	4.78	36.83	46.59	74.00	-27.41	HORIZONTAL peak
3 4960.000	43.13	34.15	5.28	36.89	45.67	74.00	-28.33	HORIZONTAL peak
4 5746.982	50.92	32.65	5.74	36.99	52.32	74.00	-21.68	HORIZONTAL peak
5 7440.000	38.49	36.33	6.72	37.16	44.38	74.00	-29.62	HORIZONTAL peak
6 9920.000	39.26	38.95	7.67	37.00	48.88	74.00	-25.12	HORIZONTAL peak

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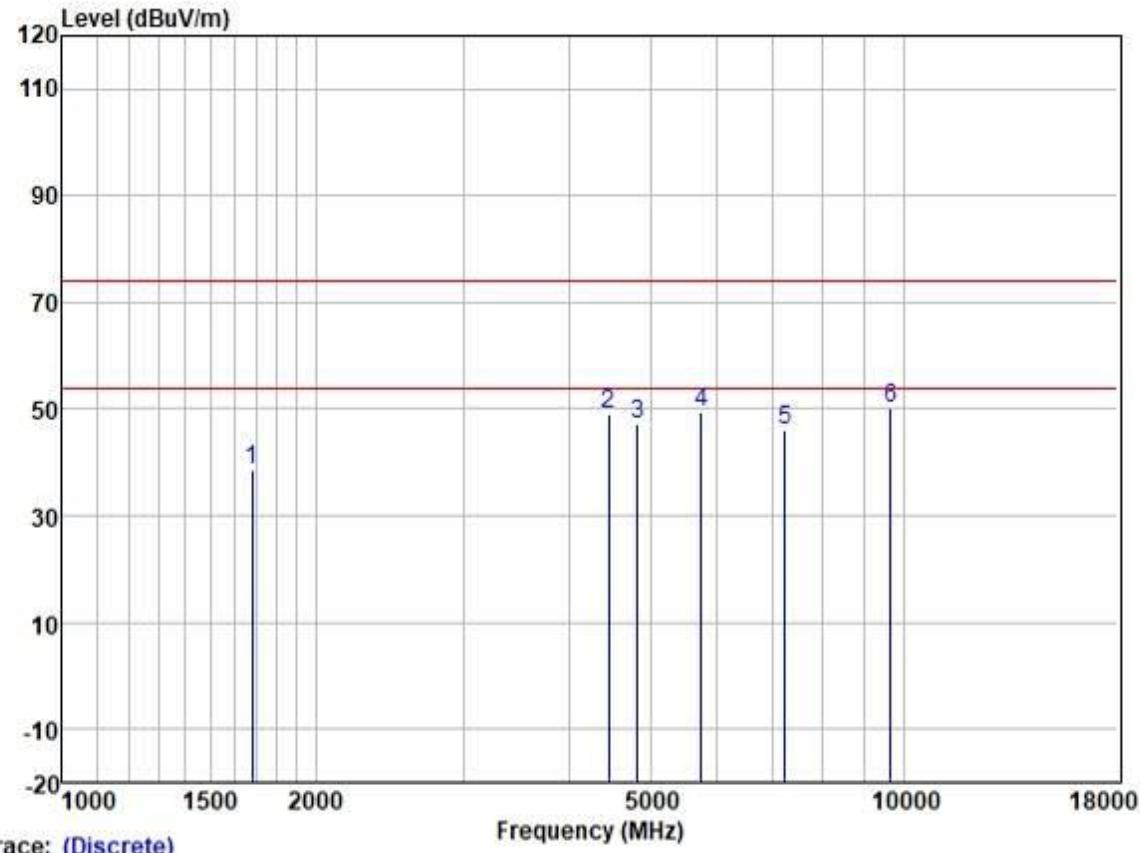
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1682.477	48.36	25.03	3.25	37.93	38.71	74.00	-35.29 VERTICAL peak
2 4456.315	46.36	34.00	5.35	36.83	48.88	74.00	-25.12 VERTICAL peak
3 4824.000	44.46	34.16	5.46	36.87	47.21	74.00	-26.79 VERTICAL peak
4 5746.982	48.23	32.65	5.70	36.99	49.59	74.00	-24.41 VERTICAL peak
5 7236.000	40.94	35.78	6.35	37.14	45.93	74.00	-28.07 VERTICAL peak
6 9648.000	40.47	38.70	7.89	37.02	50.04	74.00	-23.96 VERTICAL peak

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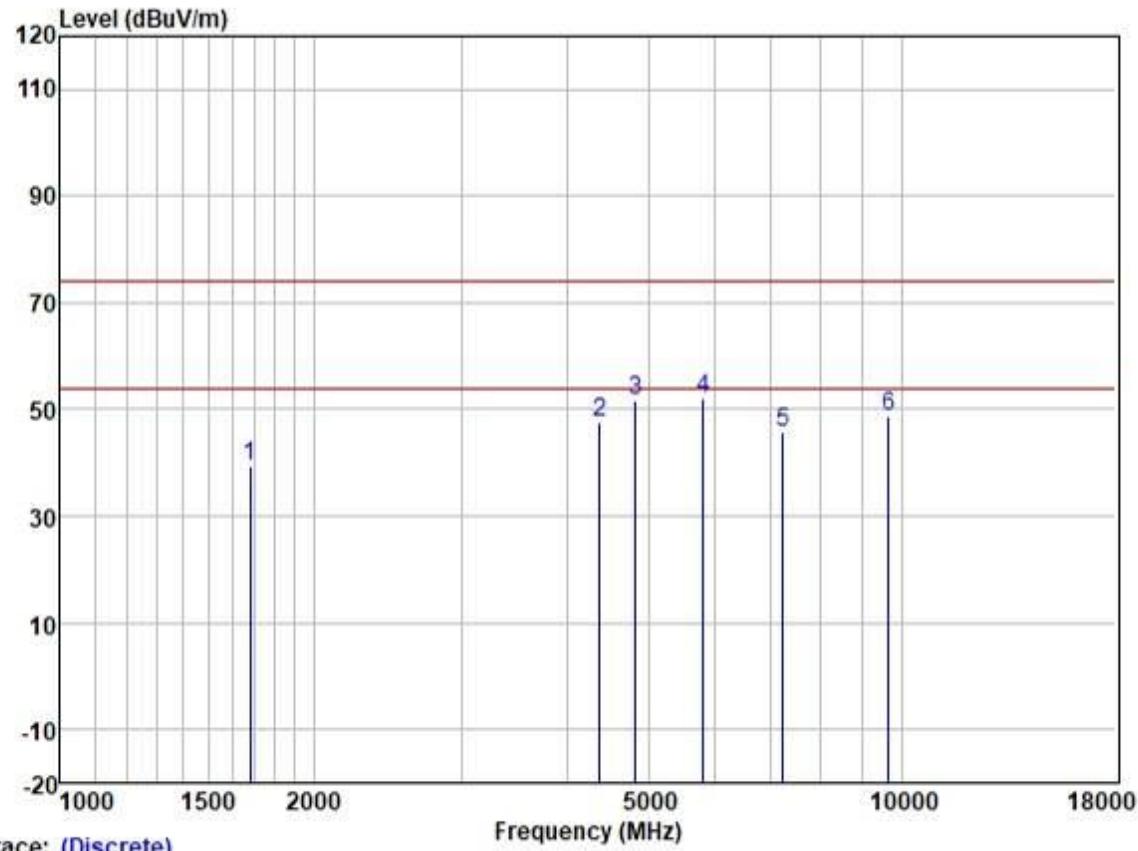
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1682.477	49.05	25.03	3.25	37.93	39.40	74.00	-34.60	HORIZONTAL	peak
2	4379.699	45.45	33.59	5.35	36.82	47.57	74.00	-26.43	HORIZONTAL	peak
3	4824.000	48.92	34.16	5.46	36.87	51.67	74.00	-22.33	HORIZONTAL	peak
4	5813.812	50.66	32.67	5.71	36.99	52.05	74.00	-21.95	HORIZONTAL	peak
5	7236.000	40.73	35.78	6.35	37.14	45.72	74.00	-28.28	HORIZONTAL	peak
6	9648.000	39.29	38.70	7.89	37.02	48.86	74.00	-25.14	HORIZONTAL	peak

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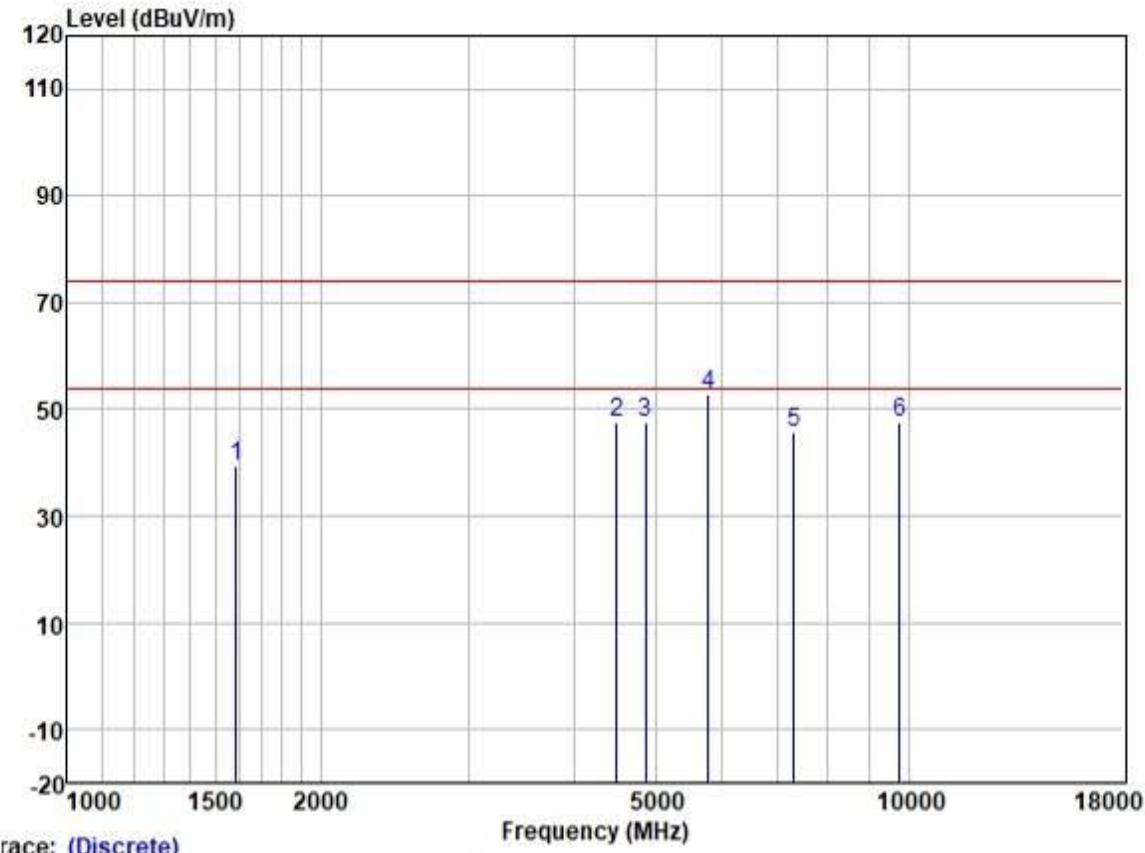
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
1	1587.975	49.71	24.65	3.00	37.94	39.42	74.00	-34.58	VERTICAL	peak
2	4495.125	45.00	34.17	5.33	36.83	47.67	74.00	-26.33	VERTICAL	peak
3	4874.000	44.75	34.15	5.49	36.87	47.52	74.00	-26.48	VERTICAL	peak
4	5780.300	51.58	32.66	5.68	36.99	52.93	74.00	-21.07	VERTICAL	peak
5	7311.000	40.54	36.00	6.32	37.15	45.71	74.00	-28.29	VERTICAL	peak
6	9748.000	38.25	38.81	7.43	37.01	47.48	74.00	-26.52	VERTICAL	peak

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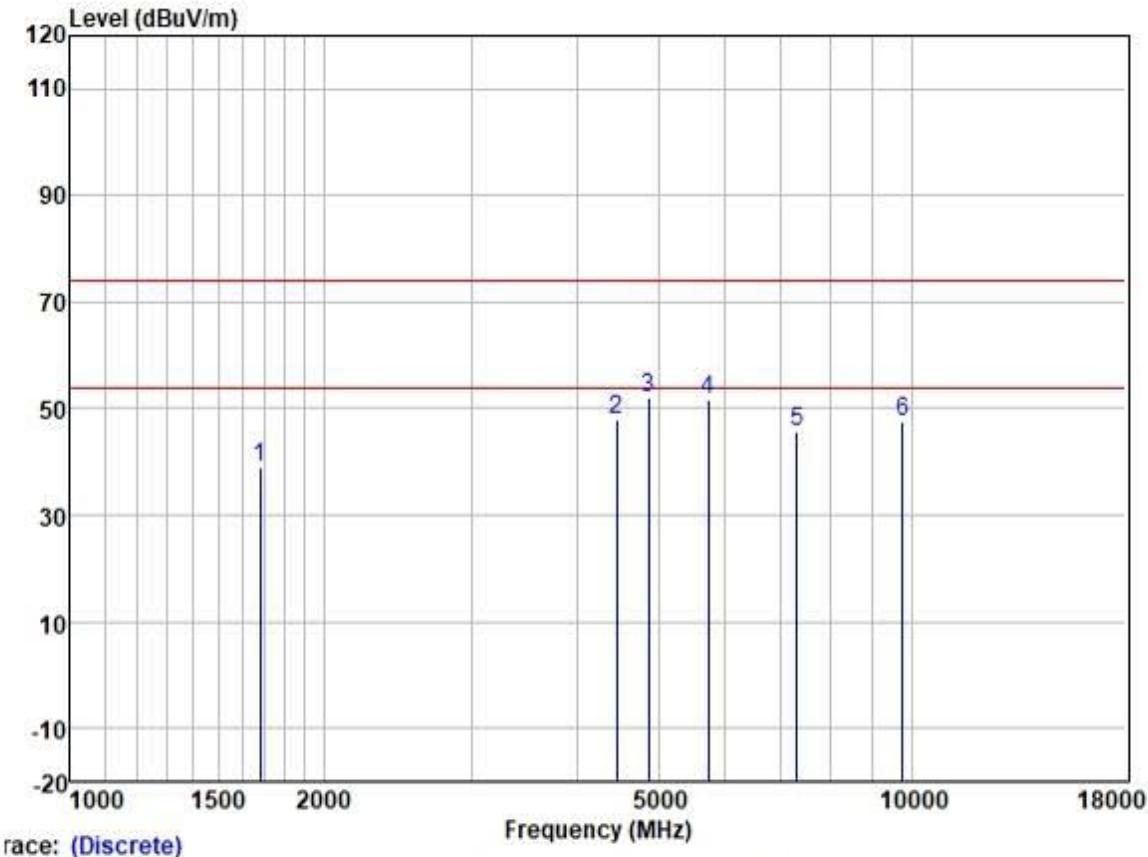
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	48.67	25.03	3.25	37.93	39.02	74.00	-34.98	HORIZONTAL	peak
2	4456.315	45.43	34.00	5.35	36.83	47.95	74.00	-26.05	HORIZONTAL	peak
3	4874.000	49.40	34.15	5.49	36.87	52.17	74.00	-21.83	HORIZONTAL	peak
4	5730.396	50.49	32.65	5.71	36.99	51.86	74.00	-22.14	HORIZONTAL	peak
5	7311.000	40.49	36.00	6.32	37.15	45.66	74.00	-28.34	HORIZONTAL	peak
6	9748.000	38.38	38.81	7.43	37.01	47.61	74.00	-26.39	HORIZONTAL	peak

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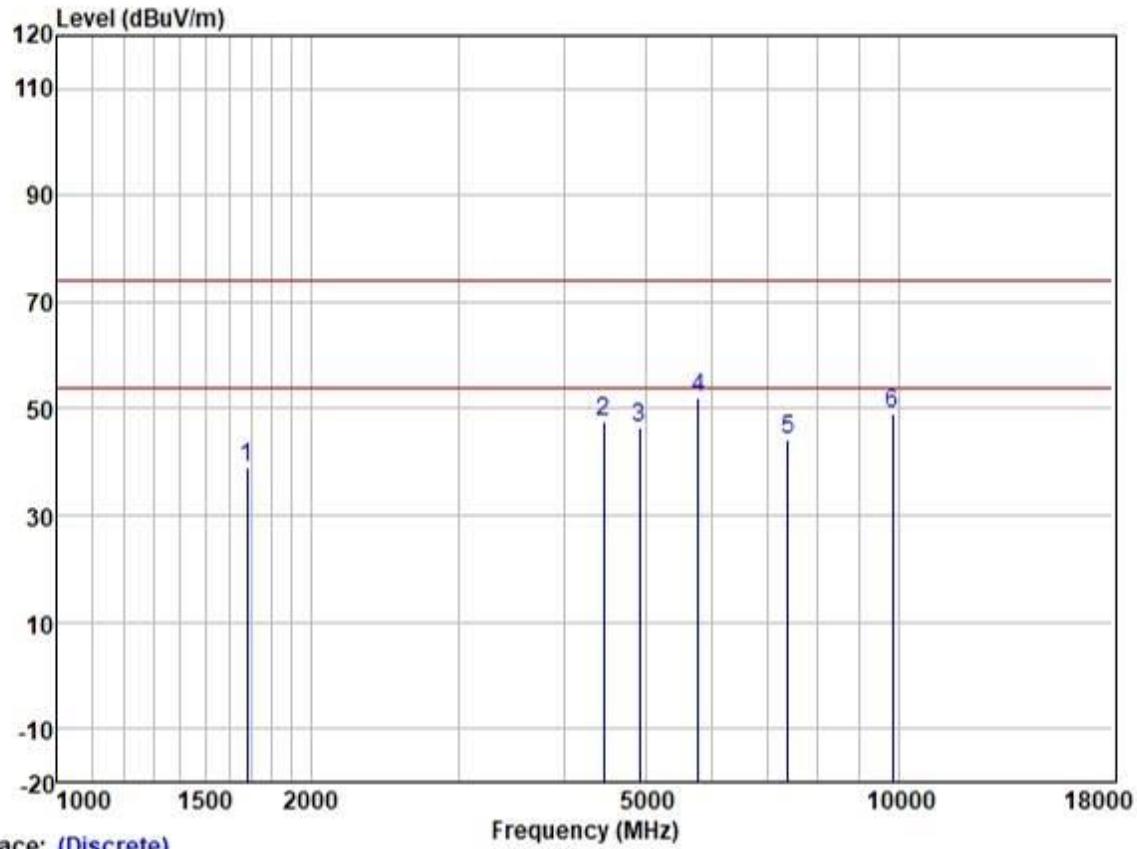
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
1	1682.477	48.53	25.03	3.25	37.93	38.88	74.00	-35.12	VERTICAL	peak
2	4456.315	44.98	34.00	5.35	36.83	47.50	74.00	-26.50	VERTICAL	peak
3	4924.000	43.50	34.15	5.51	36.88	46.28	74.00	-27.72	VERTICAL	peak
4	5780.300	50.54	32.66	5.68	36.99	51.89	74.00	-22.11	VERTICAL	peak
5	7386.000	38.87	36.23	6.30	37.16	44.24	74.00	-29.76	VERTICAL	peak
6	9848.000	40.12	38.88	7.06	37.01	49.05	74.00	-24.95	VERTICAL	peak

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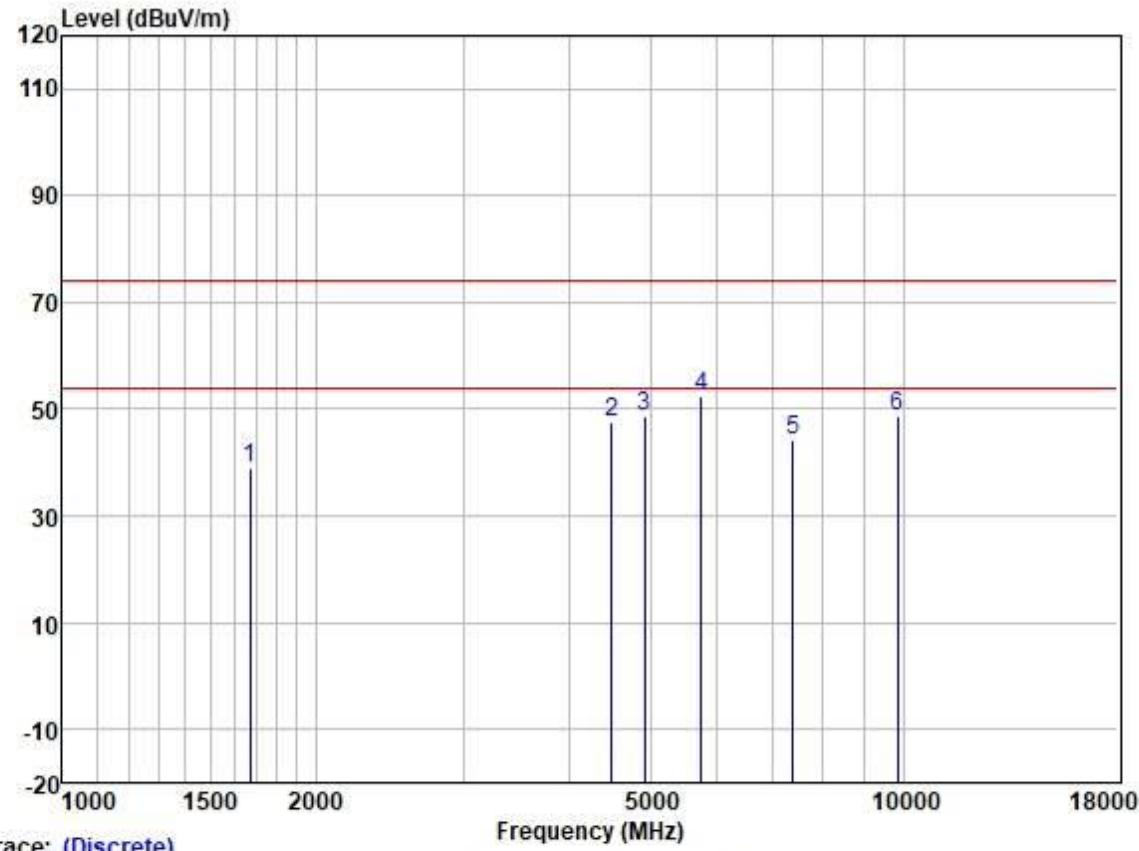
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1672.779	48.68	24.98	3.21	37.93	38.94	74.00	-35.06	HORIZONTAL peak
2 4495.125	44.90	34.17	5.33	36.83	47.57	74.00	-26.43	HORIZONTAL peak
3 4924.000	45.91	34.15	5.51	36.88	48.69	74.00	-25.31	HORIZONTAL peak
4 5746.982	50.95	32.65	5.70	36.99	52.31	74.00	-21.69	HORIZONTAL peak
5 7386.000	38.75	36.23	6.30	37.16	44.12	74.00	-29.88	HORIZONTAL peak
6 9848.000	39.72	38.88	7.06	37.01	48.65	74.00	-25.35	HORIZONTAL peak

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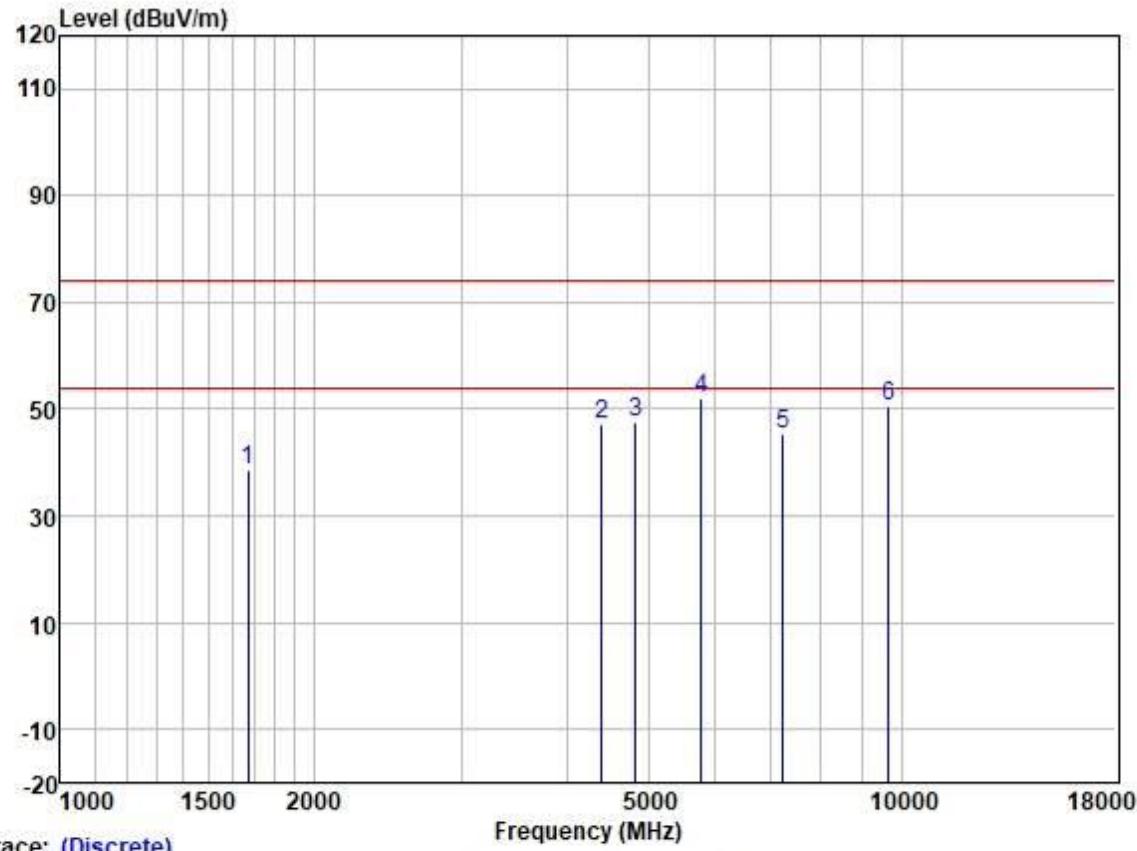
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1672.779	48.17	24.98	3.21	37.93	38.43	74.00	-35.57 VERTICAL peak
2 4405.090	45.09	33.74	5.37	36.82	47.38	74.00	-26.62 VERTICAL peak
3 4824.000	44.86	34.16	5.46	36.87	47.61	74.00	-26.39 VERTICAL peak
4 5780.300	50.81	32.66	5.68	36.99	52.16	74.00	-21.84 VERTICAL peak
5 7236.000	40.30	35.78	6.35	37.14	45.29	74.00	-28.71 VERTICAL peak
6 9648.000	40.86	38.70	7.89	37.02	50.43	74.00	-23.57 VERTICAL peak

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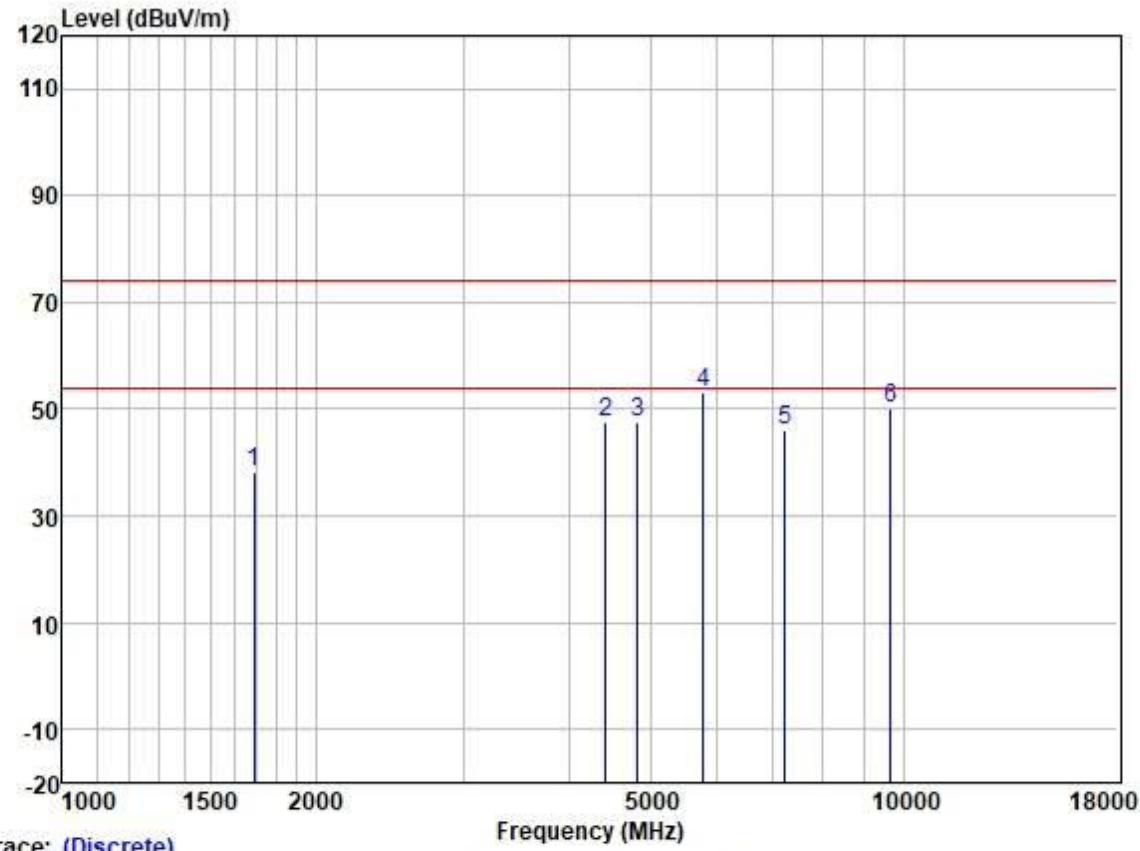
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1692.231	47.93	25.09	3.30	37.93	38.39	74.00	-35.61 HORIZONTAL peak
2 4430.628	45.06	33.87	5.36	36.83	47.46	74.00	-26.54 HORIZONTAL peak
3 4824.000	44.92	34.16	5.46	36.87	47.67	74.00	-26.33 HORIZONTAL peak
4 5780.300	51.83	32.66	5.68	36.99	53.18	74.00	-20.82 HORIZONTAL peak
5 7236.000	41.00	35.78	6.35	37.14	45.99	74.00	-28.01 HORIZONTAL peak
6 9648.000	40.60	38.70	7.89	37.02	50.17	74.00	-23.83 HORIZONTAL peak

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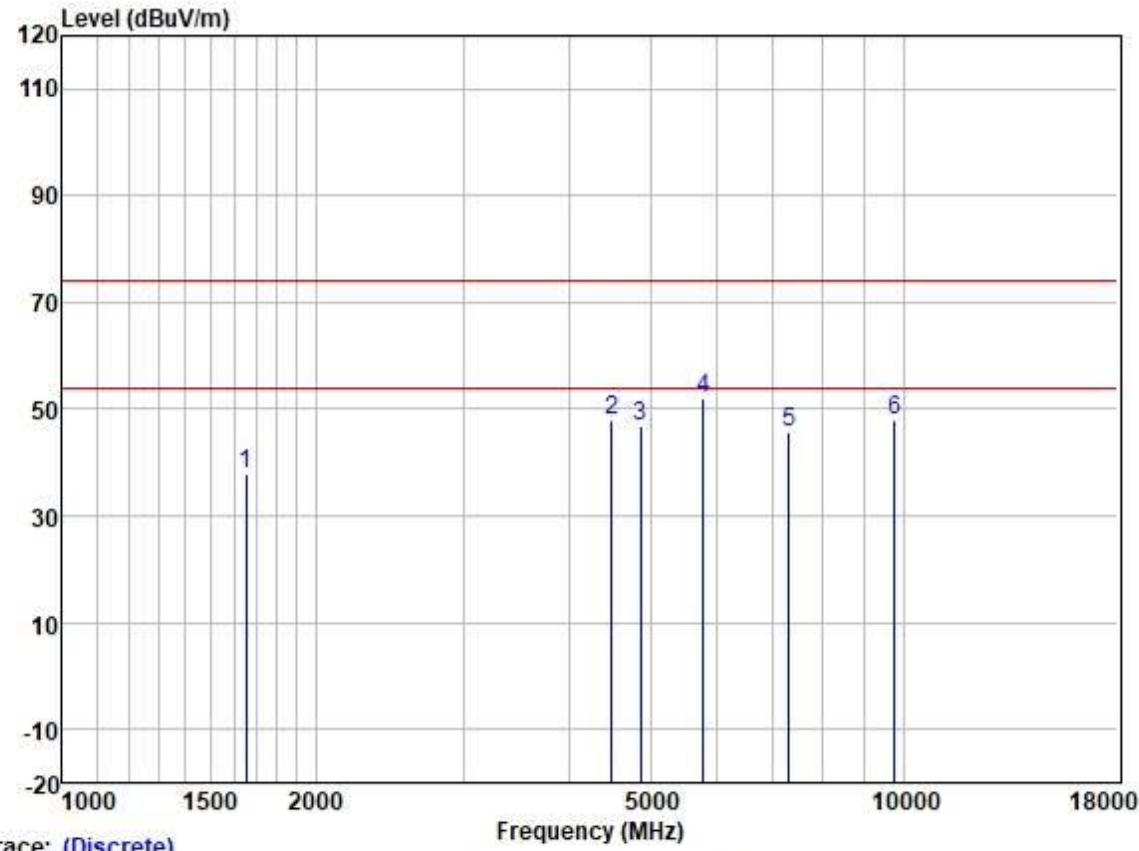
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Trace	Freq	ReadAntenna		Cable		Preamp	Level	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1653.550	47.94	24.89	3.14	37.93	38.04	74.00	-35.96	VERTICAL	peak	
2	4495.125	45.24	34.17	5.33	36.83	47.91	74.00	-26.09	VERTICAL	peak	
3	4874.000	43.88	34.15	5.49	36.87	46.65	74.00	-27.35	VERTICAL	peak	
4	5780.300	50.76	32.66	5.68	36.99	52.11	74.00	-21.89	VERTICAL	peak	
5	7311.000	40.70	36.00	6.32	37.15	45.87	74.00	-28.13	VERTICAL	peak	
6	9748.000	38.74	38.81	7.43	37.01	47.97	74.00	-26.03	VERTICAL	peak	

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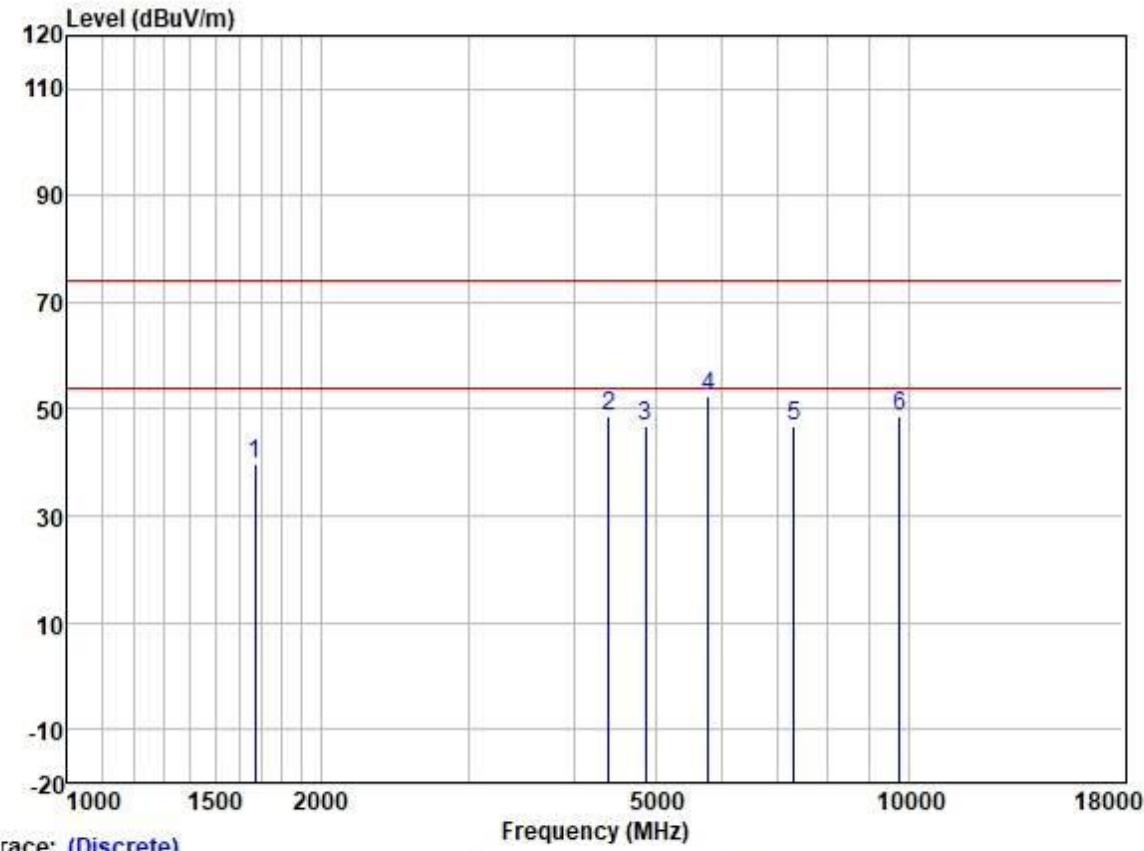
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1672.779	49.30	24.98	3.21	37.93	39.56	74.00	-34.44 HORIZONTAL peak
2 4405.090	46.40	33.74	5.37	36.82	48.69	74.00	-25.31 HORIZONTAL peak
3 4874.000	44.06	34.15	5.49	36.87	46.83	74.00	-27.17 HORIZONTAL peak
4 5780.300	51.16	32.66	5.68	36.99	52.51	74.00	-21.49 HORIZONTAL peak
5 7311.000	41.77	36.00	6.32	37.15	46.94	74.00	-27.06 HORIZONTAL peak
6 9748.000	39.41	38.81	7.43	37.01	48.64	74.00	-25.36 HORIZONTAL peak

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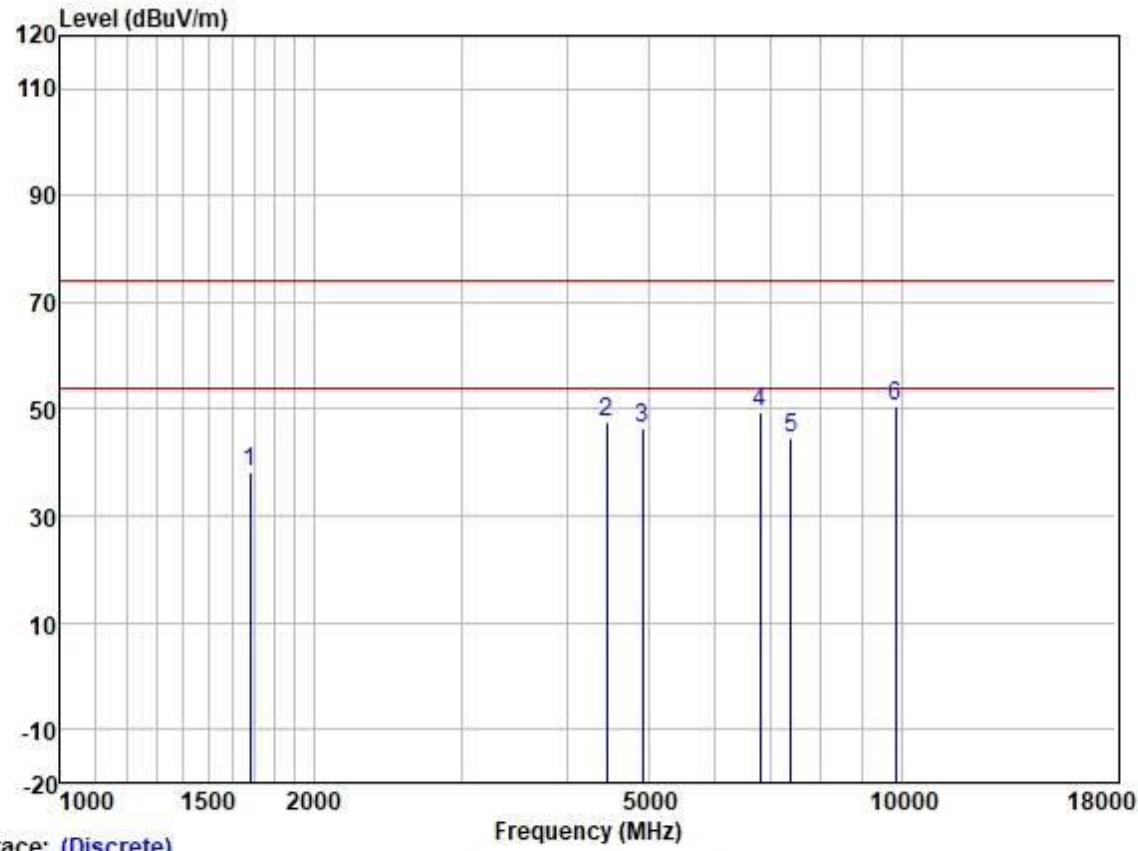
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1682.477	47.73	25.03	3.25	37.93	38.08	74.00	-35.92 VERTICAL peak
2 4456.315	44.93	34.00	5.35	36.83	47.45	74.00	-26.55 VERTICAL peak
3 4924.000	43.61	34.15	5.51	36.88	46.39	74.00	-27.61 VERTICAL peak
4 6795.879	45.36	34.69	6.34	37.06	49.33	74.00	-24.67 VERTICAL peak
5 7386.000	39.37	36.23	6.30	37.16	44.74	74.00	-29.26 VERTICAL peak
6 9848.000	41.69	38.88	7.06	37.01	50.62	74.00	-23.38 VERTICAL peak

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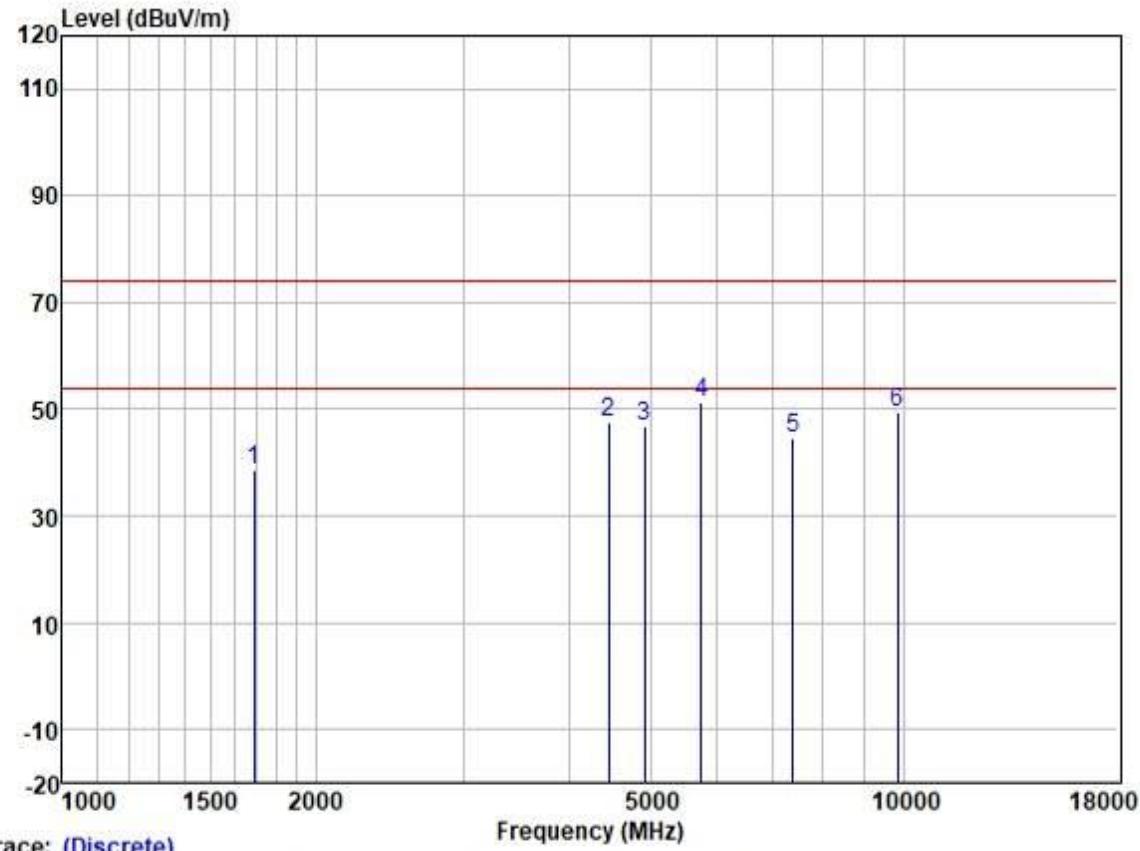
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
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 HORIZONTAL peak
2 4456.315	44.94	34.00	5.35	36.83	47.46	74.00	-26.54 HORIZONTAL peak
3 4924.000	44.12	34.15	5.51	36.88	46.90	74.00	-27.10 HORIZONTAL peak
4 5746.982	49.99	32.65	5.70	36.99	51.35	74.00	-22.65 HORIZONTAL peak
5 7386.000	39.22	36.23	6.30	37.16	44.59	74.00	-29.41 HORIZONTAL peak
6 9848.000	40.50	38.88	7.06	37.01	49.43	74.00	-24.57 HORIZONTAL peak

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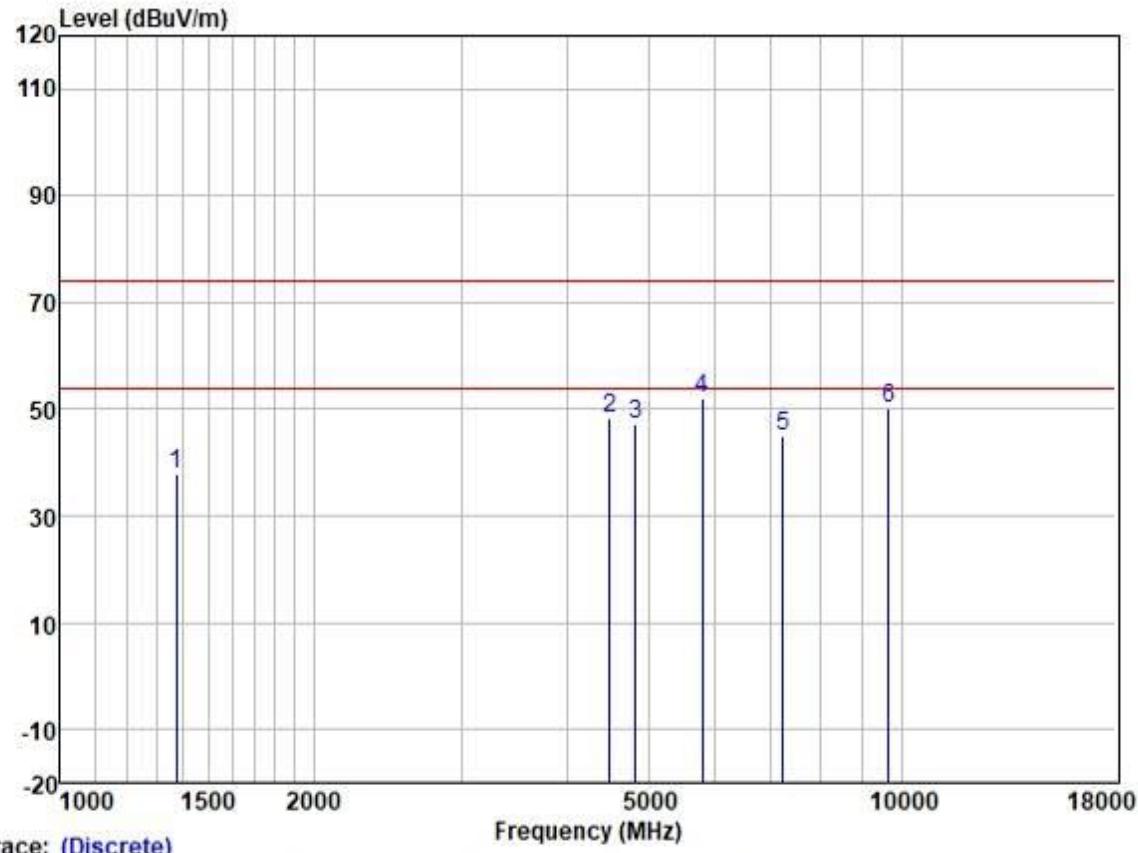
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	
1	1374.295	48.95	24.20	2.76	37.97	37.94	74.00	-36.06	VERTICAL	peak
2	4495.125	45.58	34.17	5.33	36.83	48.25	74.00	-25.75	VERTICAL	peak
3	4824.000	44.54	34.16	5.46	36.87	47.29	74.00	-26.71	VERTICAL	peak
4	5797.032	50.68	32.67	5.67	36.99	52.03	74.00	-21.97	VERTICAL	peak
5	7236.000	40.03	35.78	6.35	37.14	45.02	74.00	-28.98	VERTICAL	peak
6	9648.000	40.69	38.70	7.89	37.02	50.26	74.00	-23.74	VERTICAL	peak

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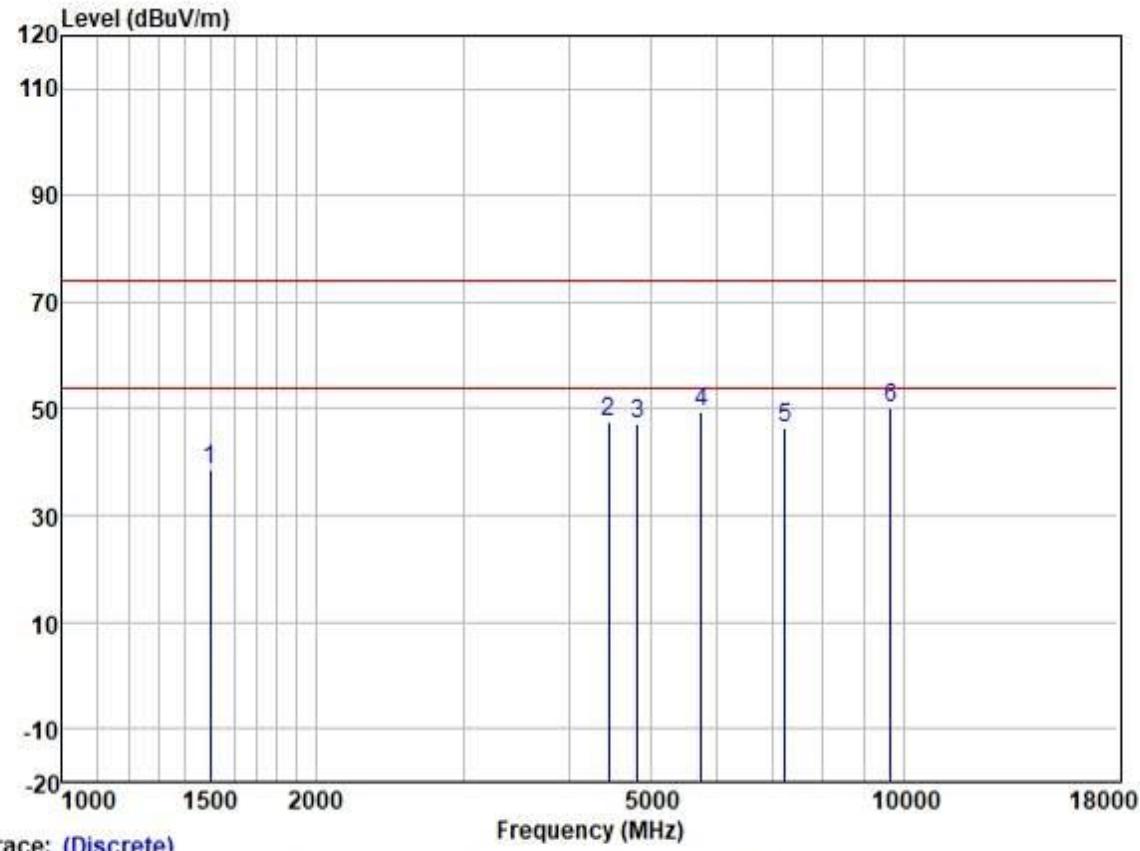
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	
1	1498.781	49.17	24.43	2.89	37.95	38.54	74.00	-35.46	HORIZONTAL	peak
2	4456.315	45.21	34.00	5.35	36.83	47.73	74.00	-26.27	HORIZONTAL	peak
3	4824.000	44.55	34.16	5.46	36.87	47.30	74.00	-26.70	HORIZONTAL	peak
4	5746.982	48.02	32.65	5.70	36.99	49.38	74.00	-24.62	HORIZONTAL	peak
5	7236.000	41.38	35.78	6.35	37.14	46.37	74.00	-27.63	HORIZONTAL	peak
6	9648.000	40.58	38.70	7.89	37.02	50.15	74.00	-23.85	HORIZONTAL	peak

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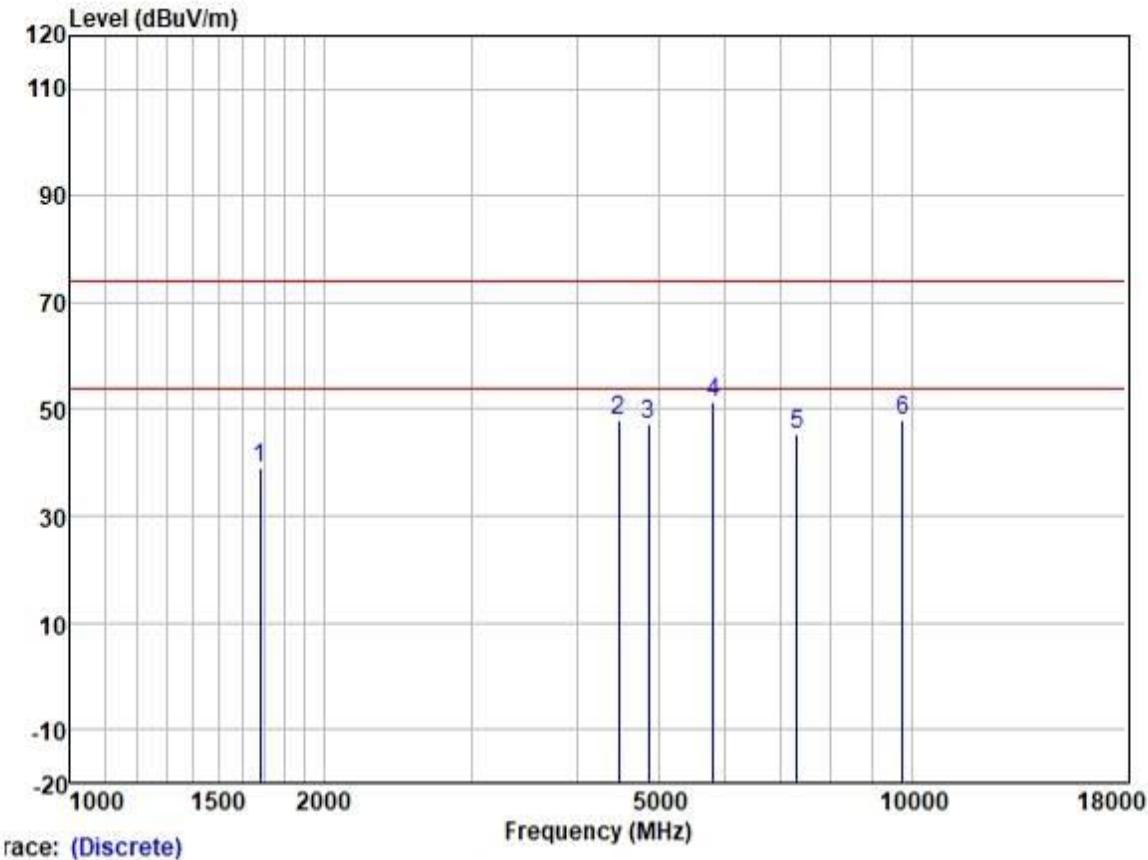
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
1	1682.477	48.53	25.03	3.25	37.93	38.88	74.00	-35.12	VERTICAL	peak
2	4482.150	45.34	34.12	5.34	36.83	47.97	74.00	-26.03	VERTICAL	peak
3	4874.000	44.57	34.15	5.49	36.87	47.34	74.00	-26.66	VERTICAL	peak
4	5813.812	49.73	32.67	5.71	36.99	51.12	74.00	-22.88	VERTICAL	peak
5	7311.000	40.07	36.00	6.32	37.15	45.24	74.00	-28.76	VERTICAL	peak
6	9748.000	38.65	38.81	7.43	37.01	47.88	74.00	-26.12	VERTICAL	peak

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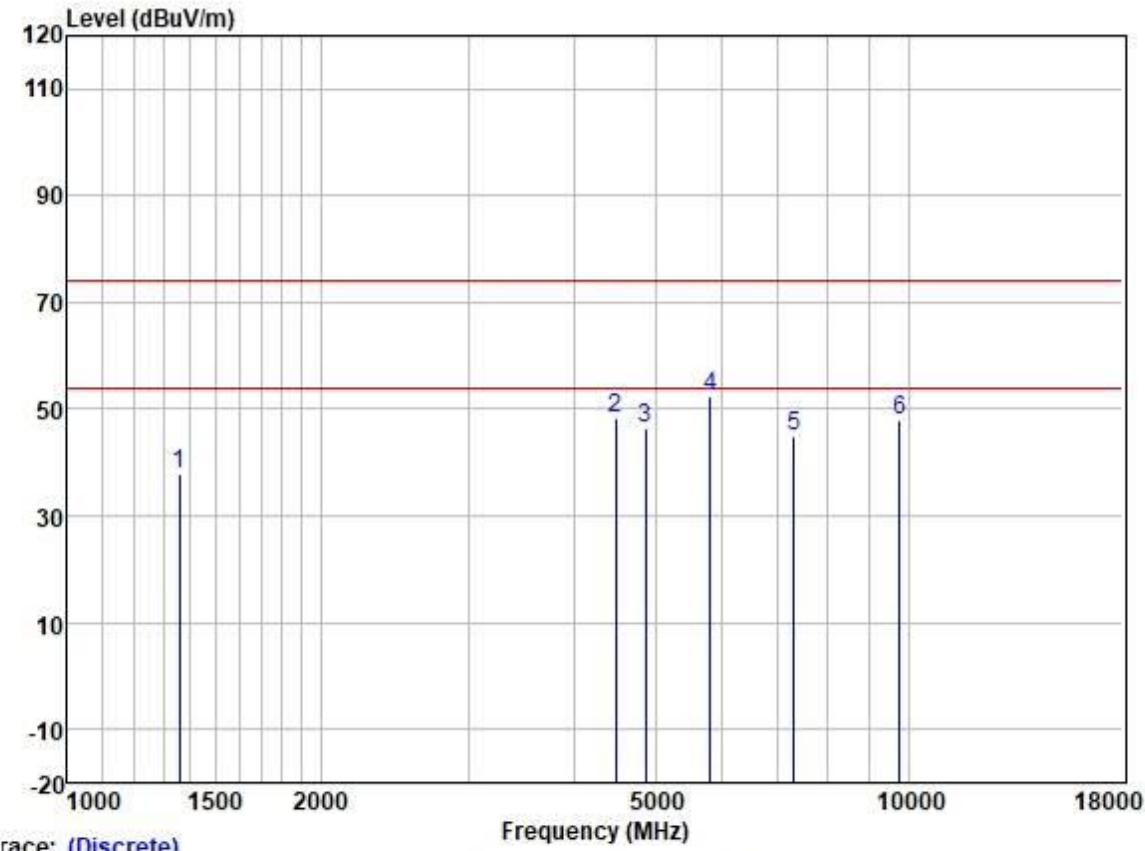
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1358.498	49.06	24.16	2.75	37.97	38.00	74.00	-36.00 HORIZONTAL peak
2 4482.150	45.52	34.12	5.34	36.83	48.15	74.00	-25.85 HORIZONTAL peak
3 4874.000	43.82	34.15	5.49	36.87	46.59	74.00	-27.41 HORIZONTAL peak
4 5813.812	51.04	32.67	5.71	36.99	52.43	74.00	-21.57 HORIZONTAL peak
5 7311.000	39.87	36.00	6.32	37.15	45.04	74.00	-28.96 HORIZONTAL peak
6 9748.000	38.82	38.81	7.43	37.01	48.05	74.00	-25.95 HORIZONTAL peak

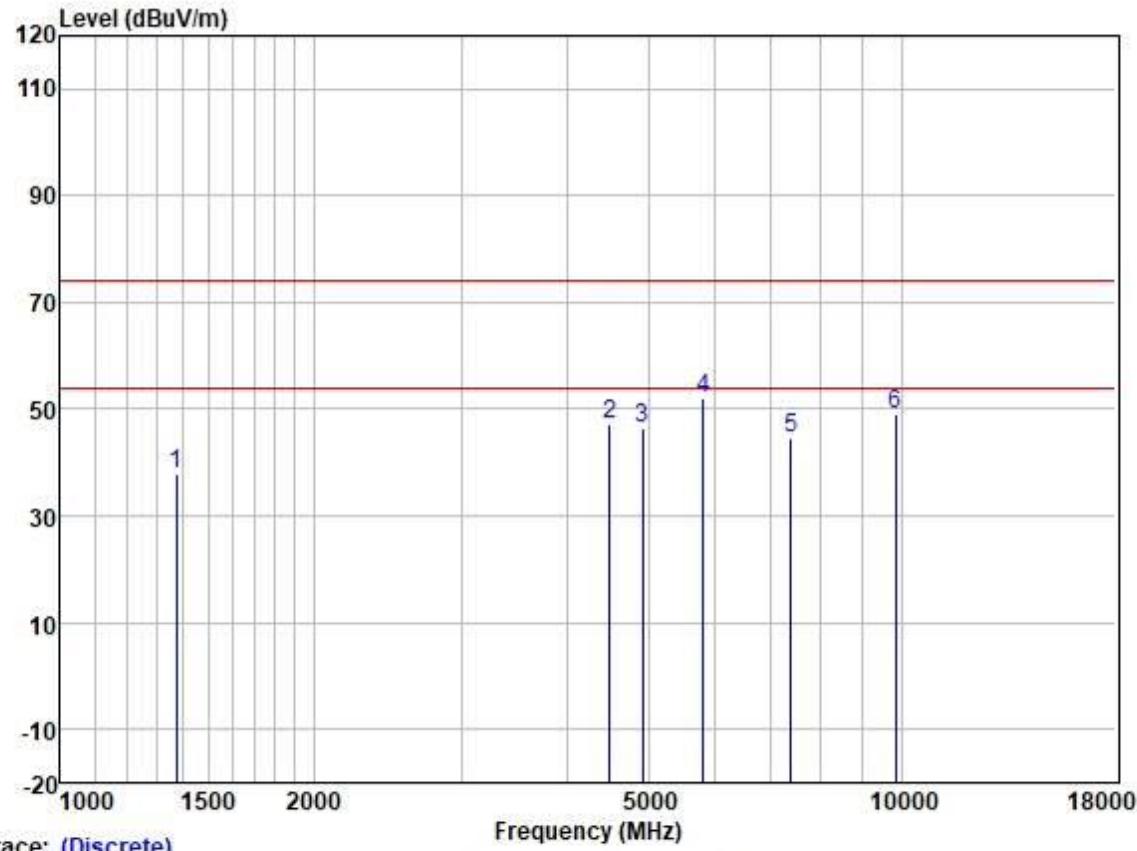
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 1374.295	48.81	24.20	2.76	37.97	37.80	74.00	-36.20 VERTICAL peak
2 4495.125	44.55	34.17	5.33	36.83	47.22	74.00	-26.78 VERTICAL peak
3 4924.000	43.71	34.15	5.51	36.88	46.49	74.00	-27.51 VERTICAL peak
4 5813.812	50.74	32.67	5.71	36.99	52.13	74.00	-21.87 VERTICAL peak
5 7386.000	39.28	36.23	6.30	37.16	44.65	74.00	-29.35 VERTICAL peak
6 9848.000	40.24	38.88	7.06	37.01	49.17	74.00	-24.83 VERTICAL peak

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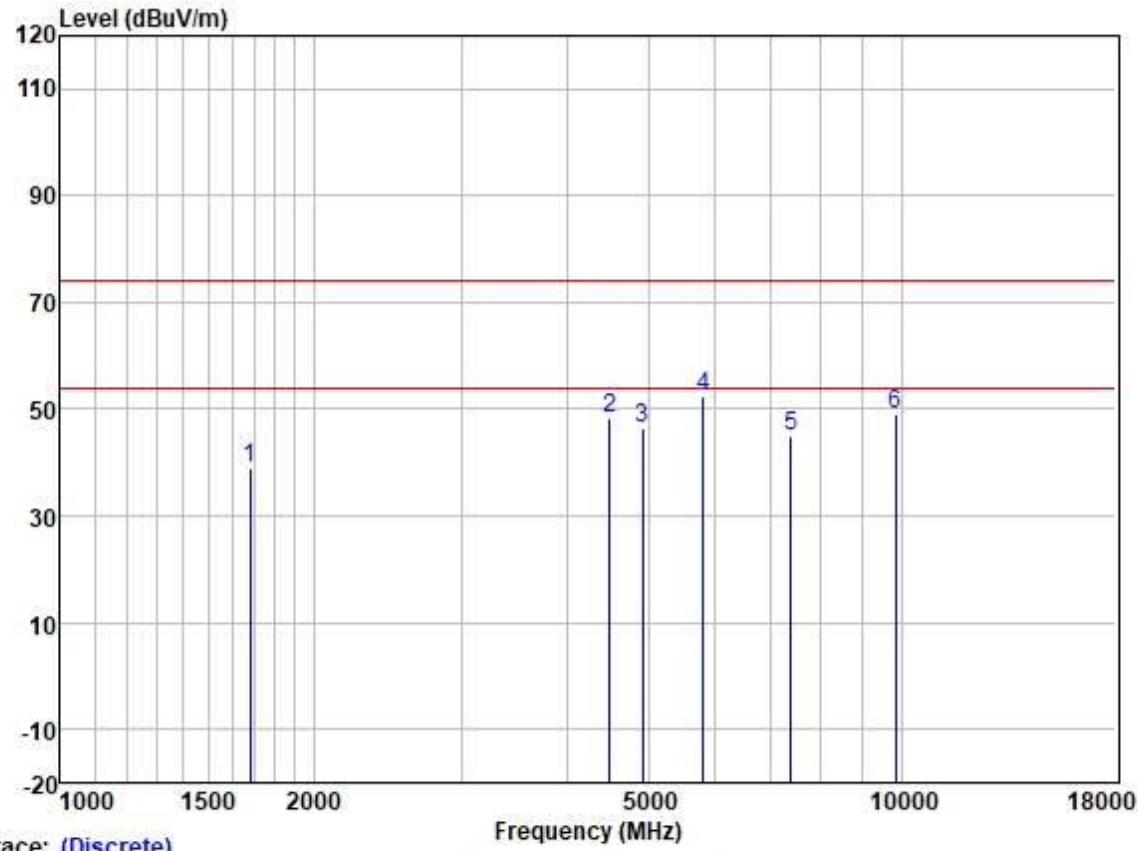
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1682.477	48.76	25.03	3.25	37.93	39.11	74.00	-34.89	HORIZONTAL peak
2 4495.125	45.56	34.17	5.33	36.83	48.23	74.00	-25.77	HORIZONTAL peak
3 4924.000	43.82	34.15	5.51	36.88	46.60	74.00	-27.40	HORIZONTAL peak
4 5813.812	50.90	32.67	5.71	36.99	52.29	74.00	-21.71	HORIZONTAL peak
5 7386.000	39.77	36.23	6.30	37.16	45.14	74.00	-28.86	HORIZONTAL peak
6 9848.000	40.29	38.88	7.06	37.01	49.22	74.00	-24.78	HORIZONTAL peak

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8 Test Setup Photo

Refer to Test Setup Photo for GZCR230700077501.



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2307000775HS



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.194	24.197	33.86	4.70	0.00
		2437	8.194	24.200	33.86	4.70	0.00
		2462	8.193	24.200	33.86	4.70	0.00
802.11g	SISO	2412	1.392	4.380	31.78	4.98	0.01
		2437	1.393	4.381	31.80	4.98	0.01
		2462	1.392	4.381	31.77	4.98	0.01
802.11n (HT20)	SISO	2412	5.084	15.650	32.49	4.88	0.02
		2437	5.083	15.650	32.48	4.88	0.02
		2462	5.084	15.647	32.49	4.88	0.02

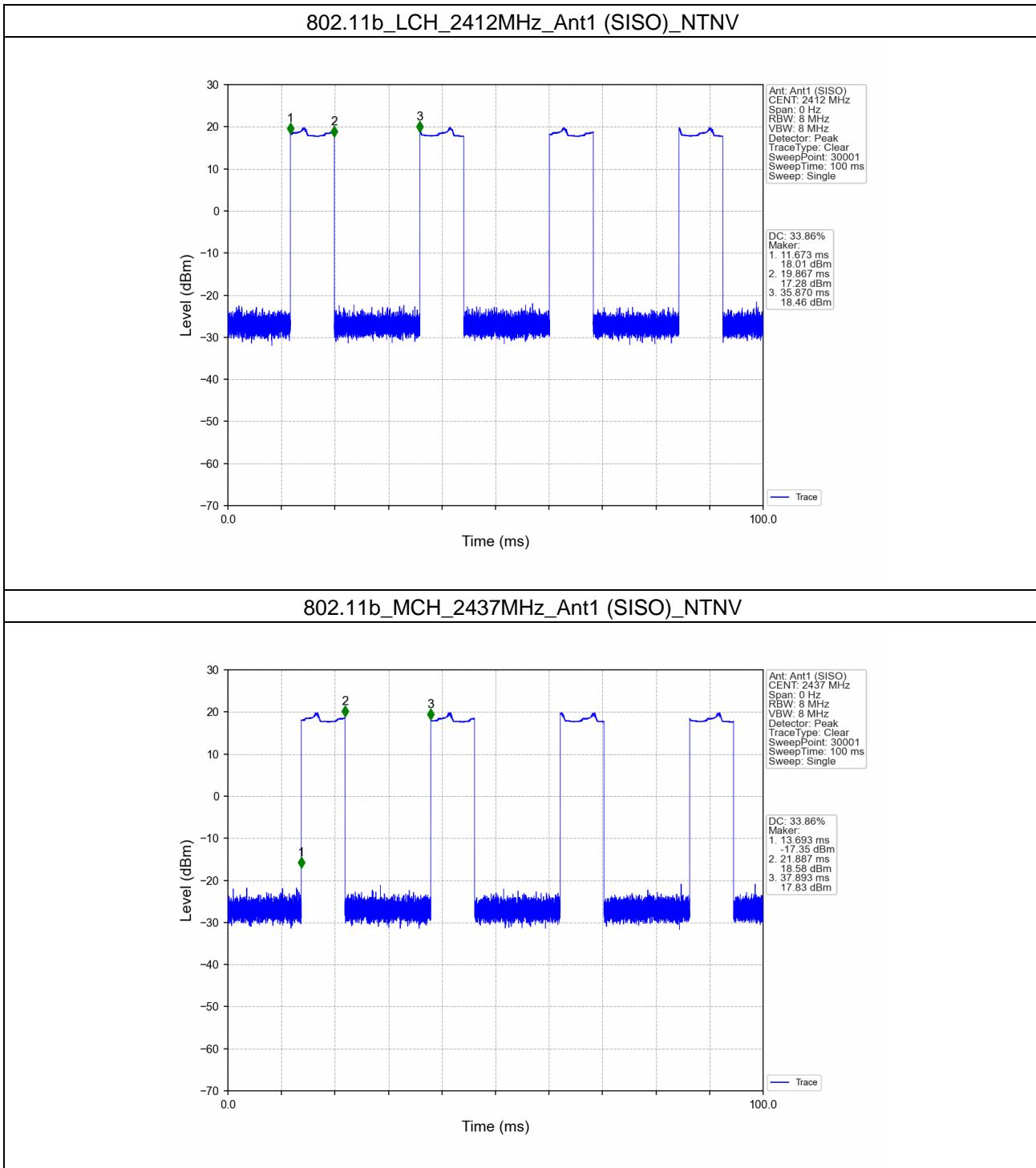
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.446	0.625	71.36	1.47	0.03
		2440	0.403	0.625	64.48	1.91	0.03
		2480	0.404	0.625	64.64	1.89	0.00

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1.1.2 Test Graph



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