



TEST REPORT

Application No.:	GZCR2206000854HS
Applicant:	Breville Pty Ltd
Address of Applicant:	Ground Floor, Suite 2, 170-180 Bourke Road, Alexandria, NSW 2015, Australia
Manufacturer:	Flextronics International Kft.
Address of Manufacturer:	Ikervari út 25, Building 4, 9600 Sárvár / HUNGARY
Factory:	Flextronics International Kft.
Address of Factory:	Ikervari út 25, Building 4, 9600 Sárvár / HUNGARY
Equipment Under Test (EUT):	
EUT Name:	Coffee maker machine
Model No.:	BVE850 XXXUSC (where XXX=A-Z, for colours) ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark:	Breville
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-06-30
Date of Test:	2022-07-05 to 2022-07-07
Date of Issue:	2022-08-25
Test Result:	Pass*

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

Kobe Jian
EMC Laboratory Manager

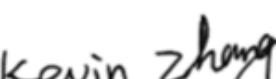


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Revision Record			
Version	Report No.	Date	Remark
01	GZCR220600085402	2022-08-25	Original

Authorized for issue by			
	 <hr data-bbox="595 1584 1043 1584"/> Kevin Zhang/Project Engineer		
	 <hr data-bbox="595 1789 1043 1791"/> Vico Cui/Reviewer		

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Guangzhou Technical Services Co.,Ltd

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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 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.

*** Declaration of EUT Family Grouping:**

Model No.: BVE850 XXXUSC (where XXX=A-Z, for colours)

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 name and colour.

Therefore only one model BVE850 BSSUSC was tested in this report.

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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	6
4.4 Test Location	7
4.5 Test Facility	7
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
7 Radio Spectrum Matter Test Results	13
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	13
7.1.1 E.U.T. Operation	13
7.1.2 Test Mode Description	13
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data	14
7.2 Conducted Peak Output Power	17
7.2.1 E.U.T. Operation	17
7.2.2 Test Mode Description	17
7.2.3 Test Setup Diagram	17
7.2.4 Measurement Procedure and Data	17
7.3 Minimum 6dB Bandwidth	18
7.3.1 E.U.T. Operation	18
7.3.2 Test Mode Description	18
7.3.3 Test Setup Diagram	18
7.3.4 Measurement Procedure and Data	18
7.4 Power Spectrum Density	19
7.4.1 E.U.T. Operation	19
7.4.2 Test Mode Description	19
7.4.3 Test Setup Diagram	19
7.4.4 Measurement Procedure and Data	19
7.5 Conducted Band Edges Measurement	20
7.5.1 E.U.T. Operation	20
7.5.2 Test Mode Description	20
7.5.3 Test Setup Diagram	20
7.5.4 Measurement Procedure and Data	20

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7.6	Conducted Spurious Emissions	21
7.6.1	E.U.T. Operation	21
7.6.2	Test Mode Description	21
7.6.3	Test Setup Diagram	21
7.6.4	Measurement Procedure and Data	21
7.7	Radiated Emissions which fall in the restricted bands	22
7.7.1	E.U.T. Operation	22
7.7.2	Test Mode Description	22
7.7.3	Test Setup Diagram	22
7.7.4	Measurement Procedure and Data	23
7.8	Radiated Spurious Emissions Below 1GHz	44
7.8.1	E.U.T. Operation	44
7.8.2	Test Mode Description	44
7.8.3	Test Setup Diagram	44
7.8.4	Measurement Procedure and Data	45
7.9	Radiated Spurious Emissions Above 1GHz	48
7.9.1	E.U.T. Operation	48
7.9.2	Test Mode Description	48
7.9.3	Test Setup Diagram	48
7.9.4	Measurement Procedure and Data	49
8	Test Setup Photo	80
9	EUT Constructional Details (EUT Photos)	81
10	Appendix	82



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V, 60Hz 1350W
Cable(s):	AC mains
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz; BLE:2402MHz to 2480MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK); BLE: GFSK
Number of Channels:	802.11b/g/n(HT20):11; 802.11n(HT40):7; BLE: 40
Channel Spacing:	802.11b/g/n(HT20)/(HT40):5MHz; BLE: 2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	3.7 dBi

4.2 Description of Support Units

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

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)

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4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

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

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

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted 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

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



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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

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

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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	2022-06-24	2023-06-23

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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 3.7 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

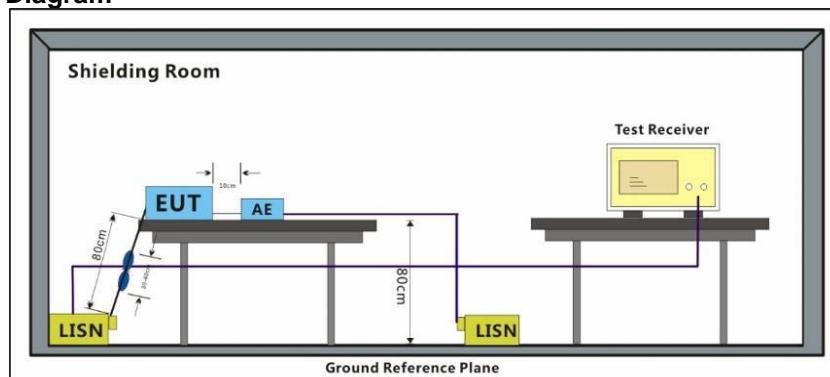
Operating Environment:

Temperature: 23.7 °C Humidity: 54.8 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Mode	Final test	Description
Mode	Code	
Final test 00		TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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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

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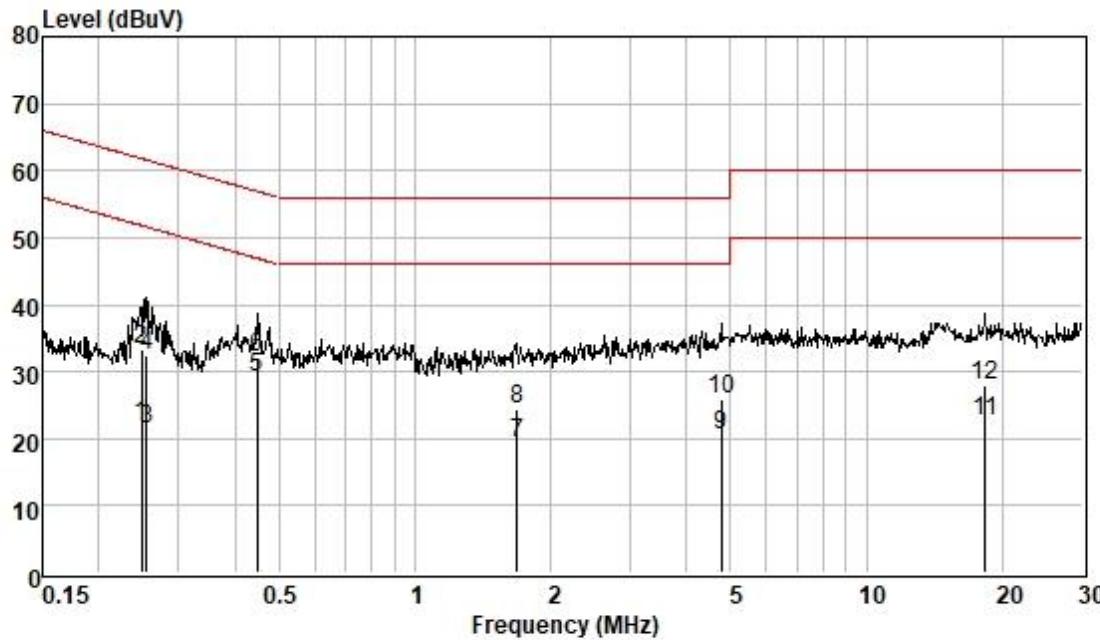
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Test Mode: 00 & 02; Line: Live line; Modulation:GFSK; Channel:Low



Pol :LINE

Mode :

Model :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.248	12.25	0.06	9.57	21.88	51.82	-29.94	Average
2	0.248	23.72	0.06	9.57	33.35	61.82	-28.47	QP
3	0.255	11.92	0.06	9.57	21.55	51.60	-30.05	Average
4	0.255	22.78	0.06	9.57	32.41	61.60	-29.19	QP
5	0.447	19.44	0.06	9.58	29.08	46.93	-17.85	Average
6	0.447	22.36	0.06	9.58	32.00	56.93	-24.93	QP
7	1.680	9.48	0.11	9.60	19.19	46.00	-26.81	Average
8	1.680	14.67	0.11	9.60	24.38	56.00	-31.62	QP
9	4.772	10.81	0.18	9.66	20.65	46.00	-25.35	Average
10	4.772	16.07	0.18	9.66	25.91	56.00	-30.09	QP
11	18.328	12.32	0.35	9.84	22.51	50.00	-27.49	Average
12	18.328	17.72	0.35	9.84	27.91	60.00	-32.09	QP

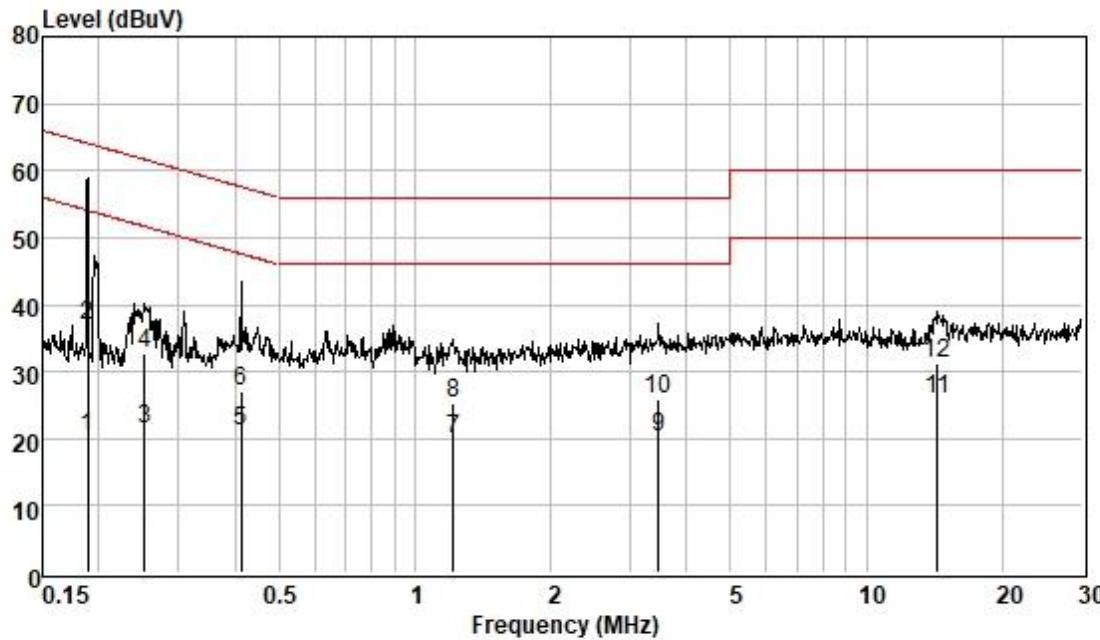
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Test Mode: 00 & 02; Line: Neutral Line; Modulation:GFSK; Channel:Low



Pol : NEUTRAL

Mode :

Model :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.189	10.61	0.06	9.55	20.22	54.06	-33.84	Average
2	0.189	27.35	0.06	9.55	36.96	64.06	-27.10	QP
3	0.252	11.70	0.06	9.56	21.32	51.69	-30.37	Average
4	0.252	23.15	0.06	9.56	32.77	61.69	-28.92	QP
5	0.413	11.61	0.06	9.58	21.25	47.59	-26.34	Average
6	0.413	17.53	0.06	9.58	27.17	57.59	-30.42	QP
7	1.216	10.25	0.08	9.59	19.92	46.00	-26.08	Average
8	1.216	15.73	0.08	9.59	25.40	56.00	-30.60	QP
9	3.454	10.58	0.16	9.62	20.36	46.00	-25.64	Average
10	3.454	16.02	0.16	9.62	25.80	56.00	-30.20	QP
11	14.364	15.73	0.30	9.85	25.88	50.00	-24.12	Average
12	14.364	21.16	0.30	9.85	31.31	60.00	-28.69	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:

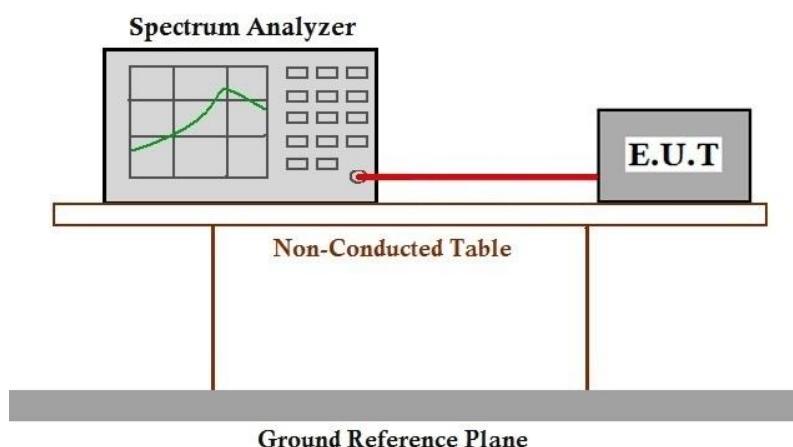
Temperature: 23.2 °C

Humidity: 63.2 % RH

Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), 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**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



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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

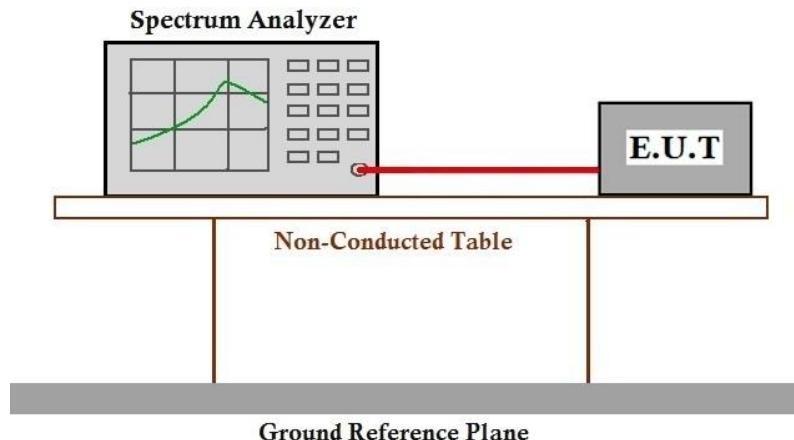
Operating Environment:

Temperature: 23.2 °C Humidity: 63.0 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), 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

Please Refer to Appendix for Details



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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

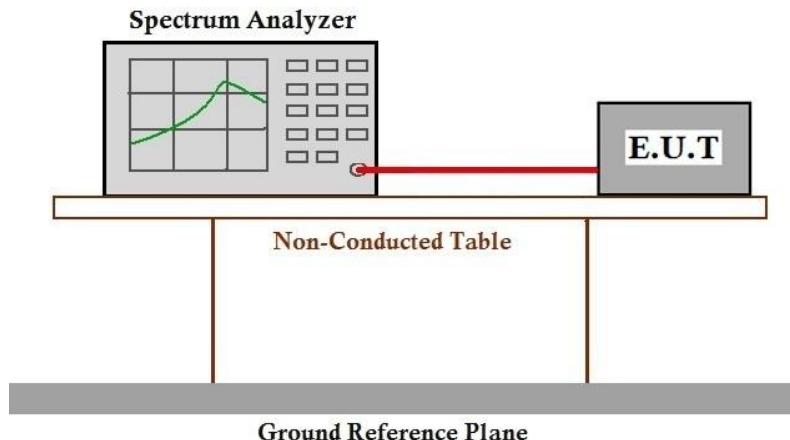
Operating Environment:

Temperature: 23.2 °C Humidity: 62.9 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), 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

Please Refer to Appendix for Details



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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

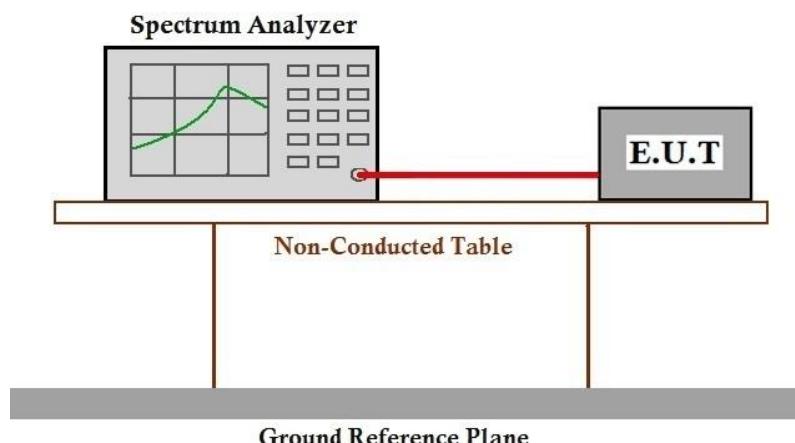
Operating Environment:

Temperature: 23.2 °C Humidity: 62.8 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), 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



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

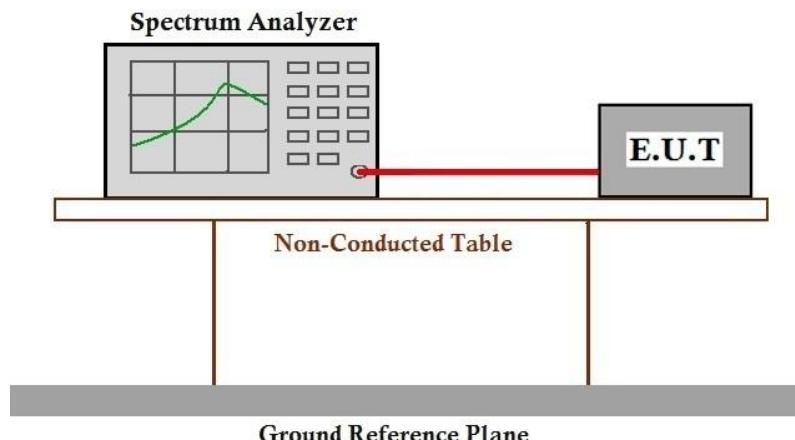
Operating Environment:

Temperature: 23.2 °C Humidity: 62.9 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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.

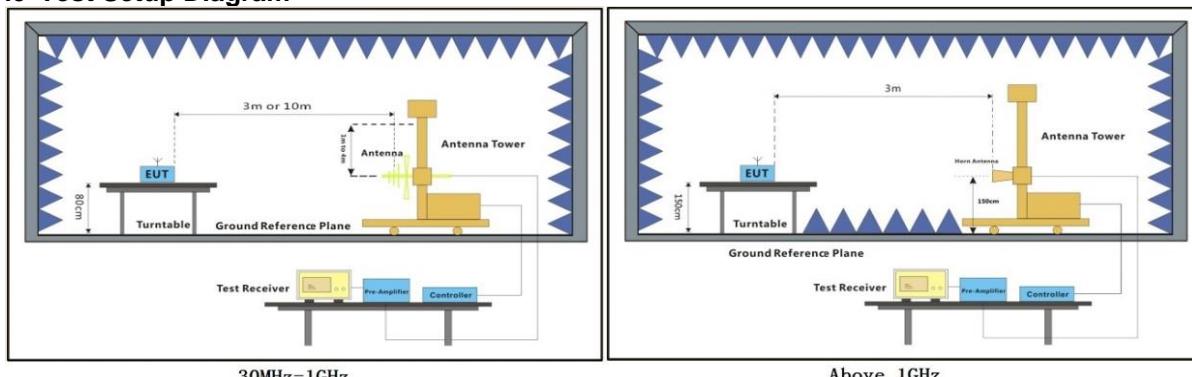
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 62.3 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	

7.7.3 Test Setup Diagram

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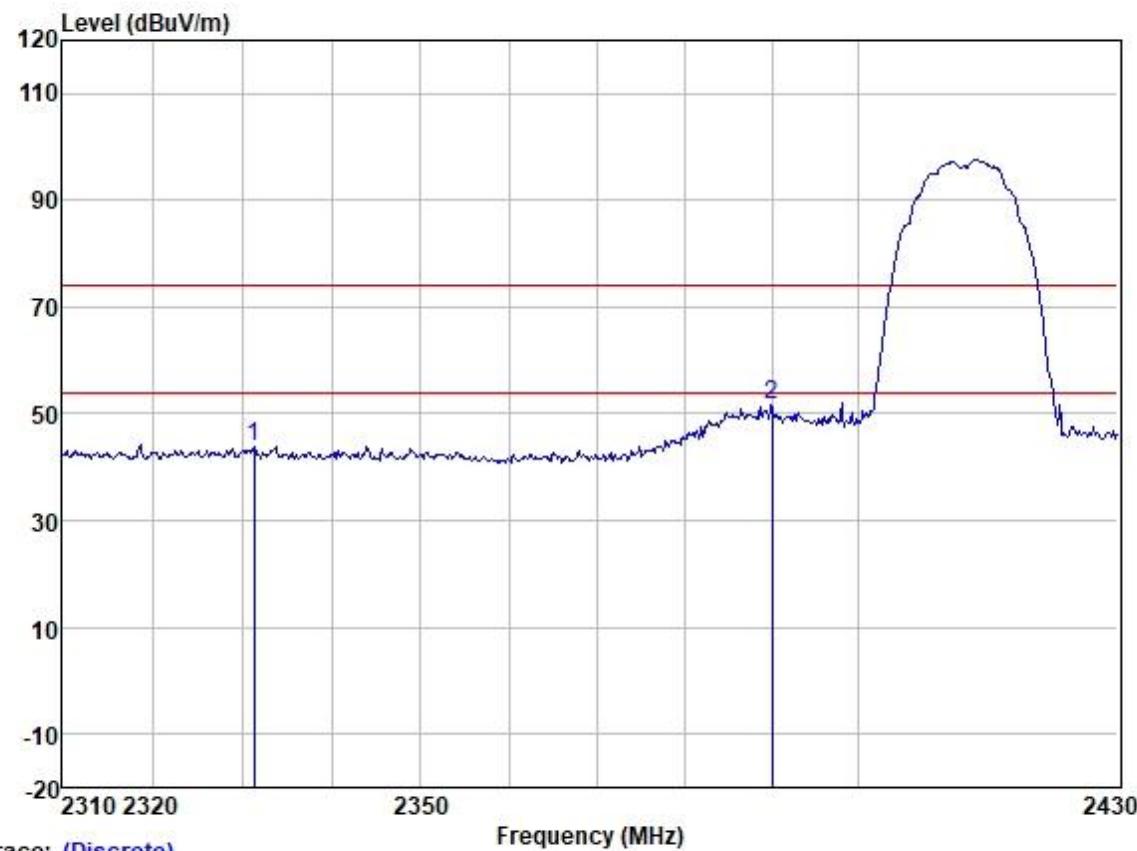
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

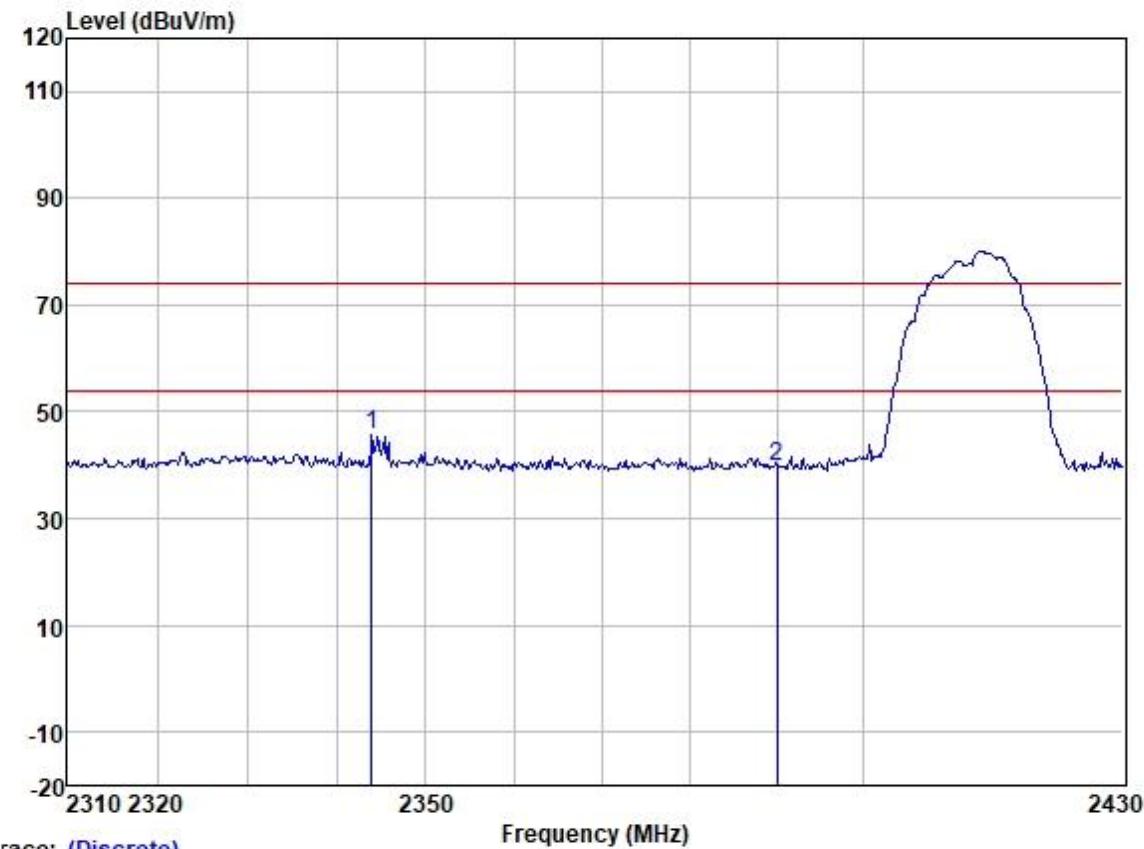
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	2343.939	50.94	27.24	4.60	37.15	45.63	74.00	-28.37	HORIZONTAL	Peak
2	2390.000	45.29	27.33	4.22	37.14	39.70	74.00	-34.30	HORIZONTAL	Peak

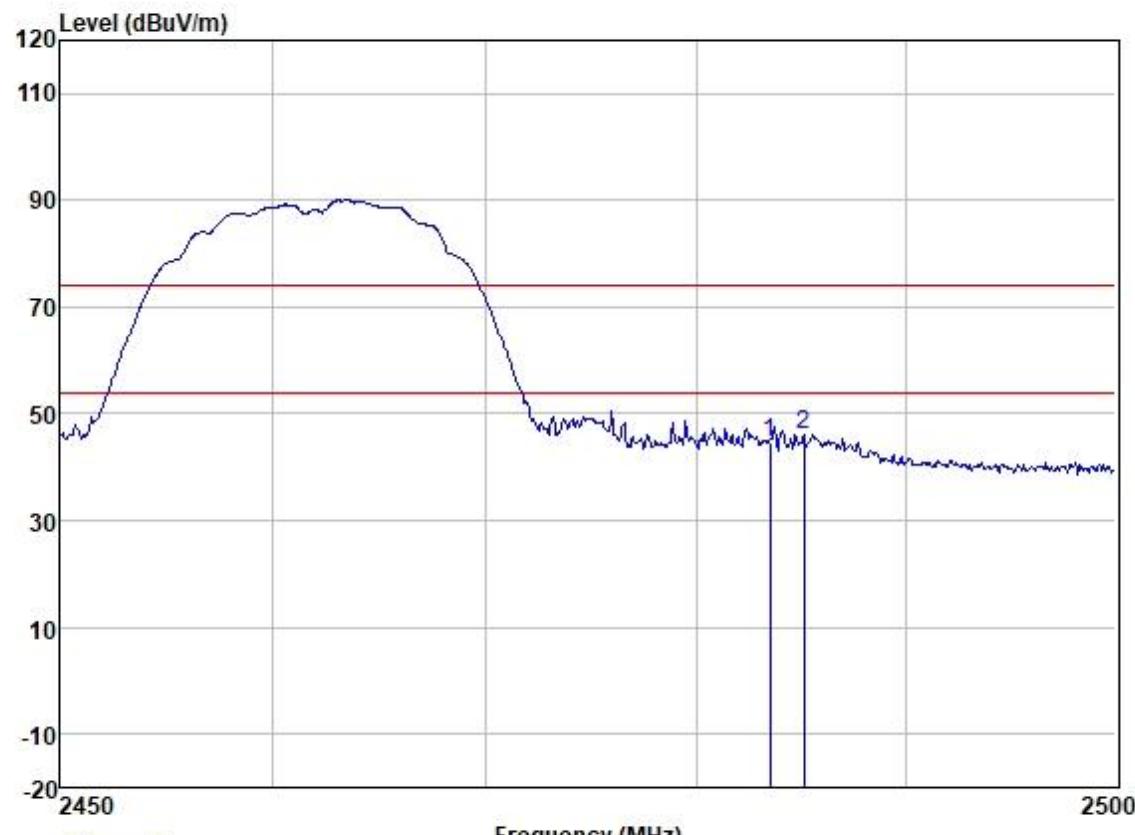
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2483.500	50.98	27.48	3.42	37.13	44.75	74.00	-29.25	VERTICAL	Peak
2	2485.095	52.32	27.48	3.42	37.13	46.09	74.00	-27.91	VERTICAL	Peak

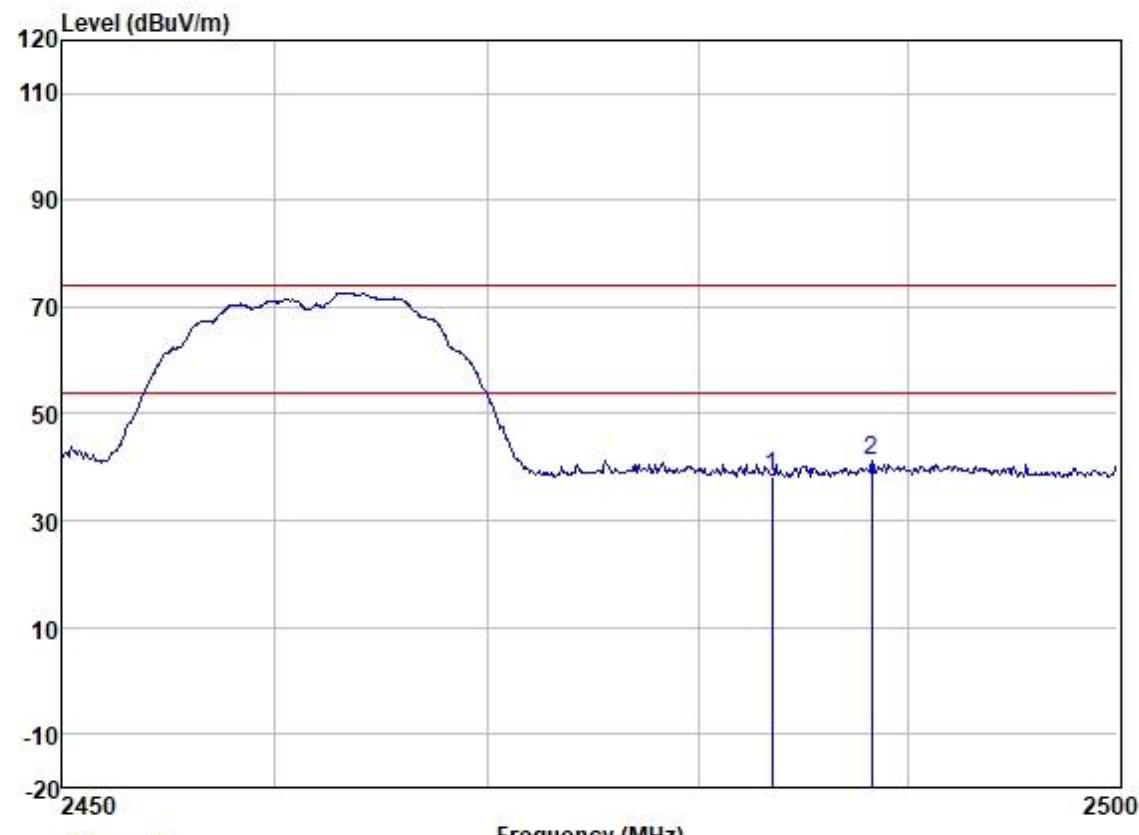
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

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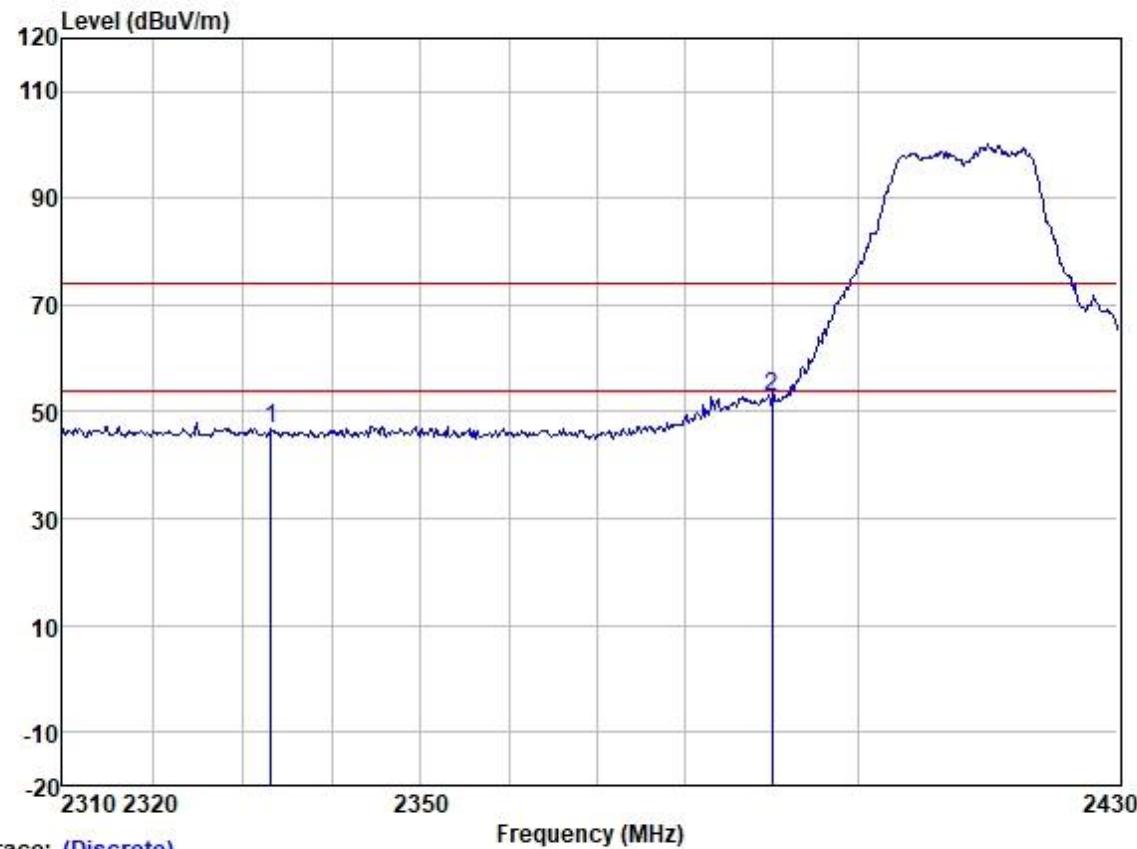
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	2333.280	52.07	27.20	4.76	37.15	46.88	74.00	-27.12	VERTICAL	Peak
2	2390.000	58.39	27.33	4.22	37.14	52.80	74.00	-21.20	VERTICAL	Peak

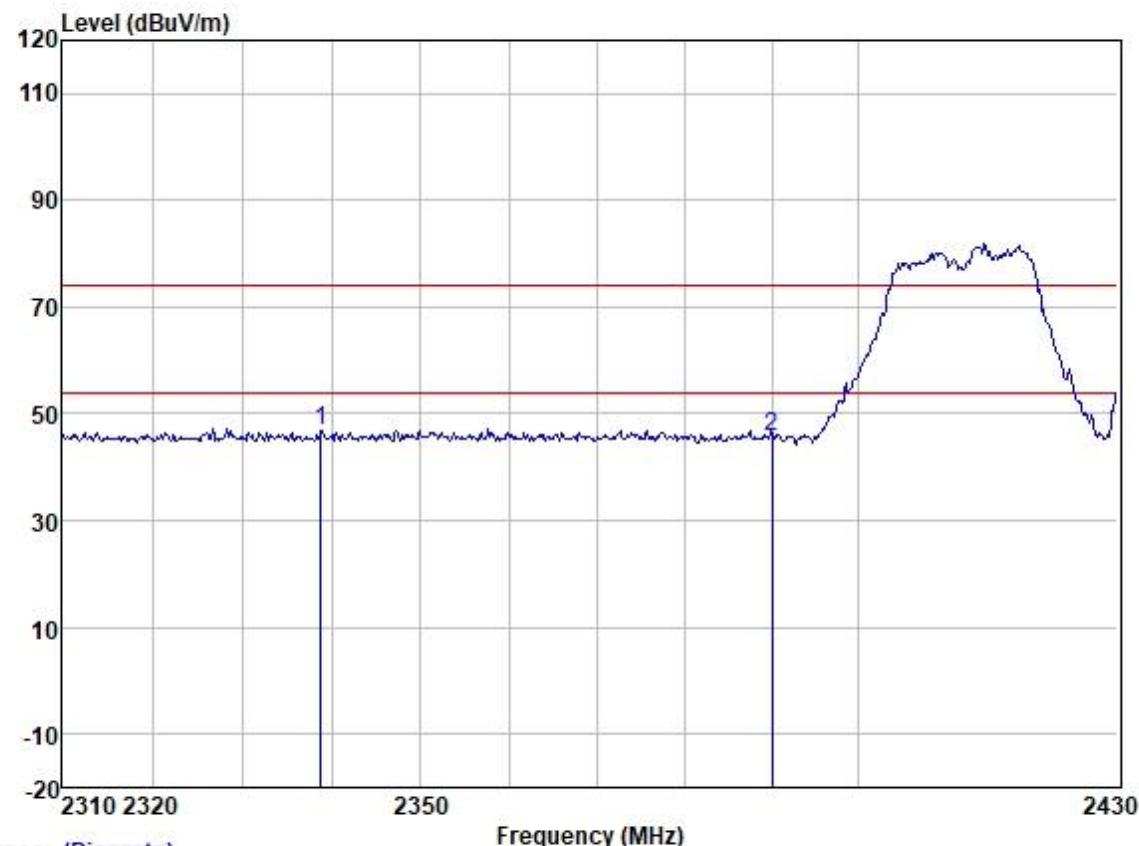
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

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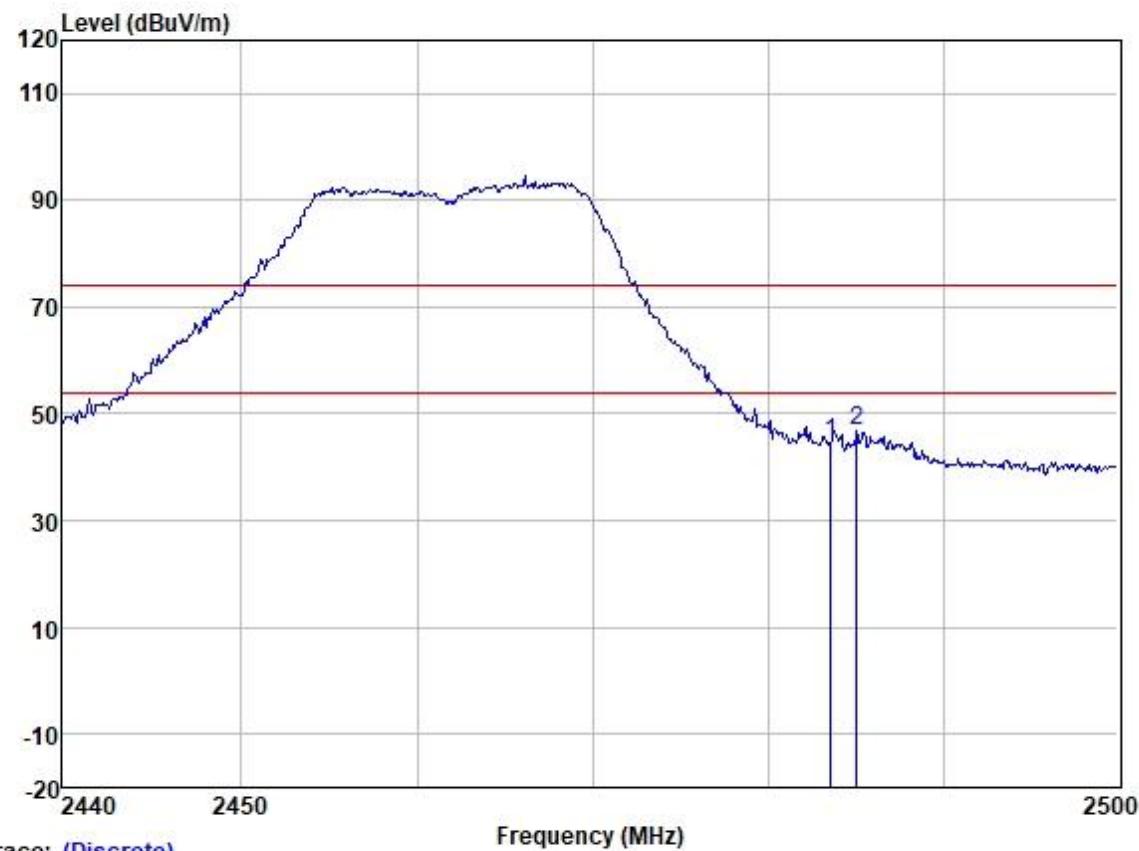
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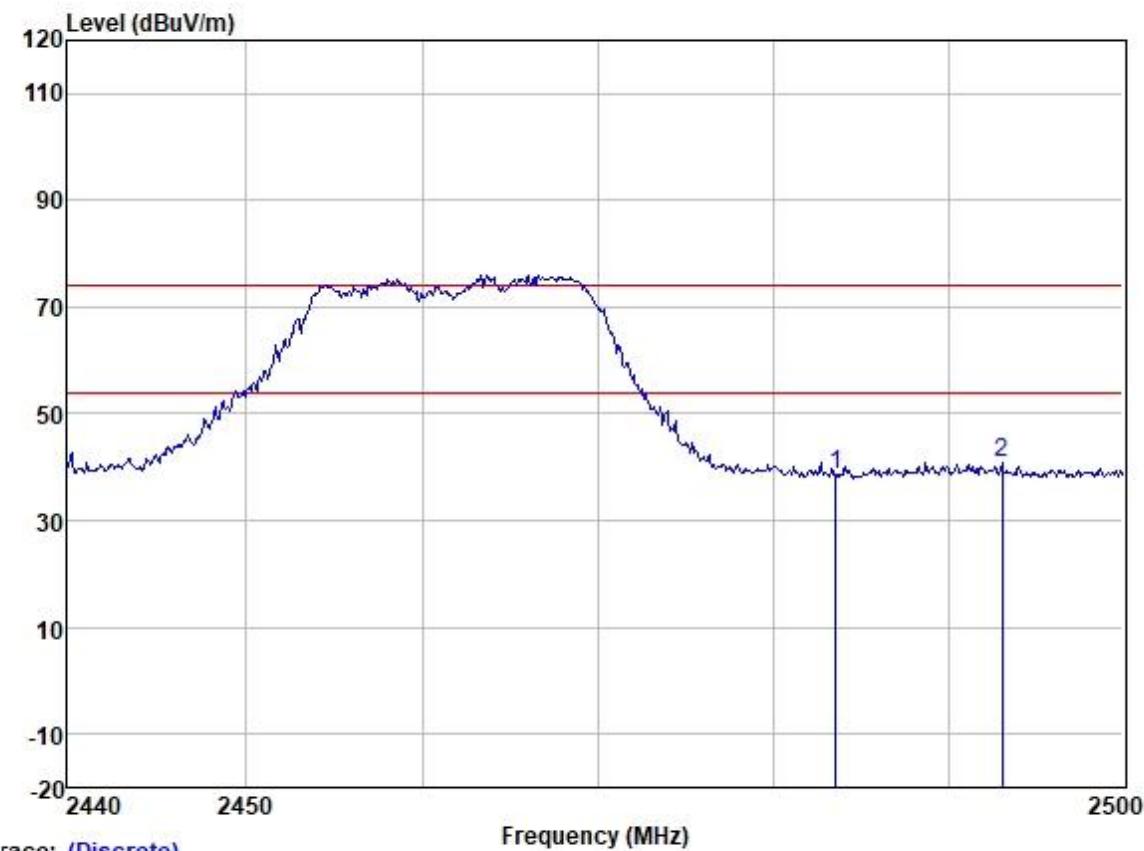
Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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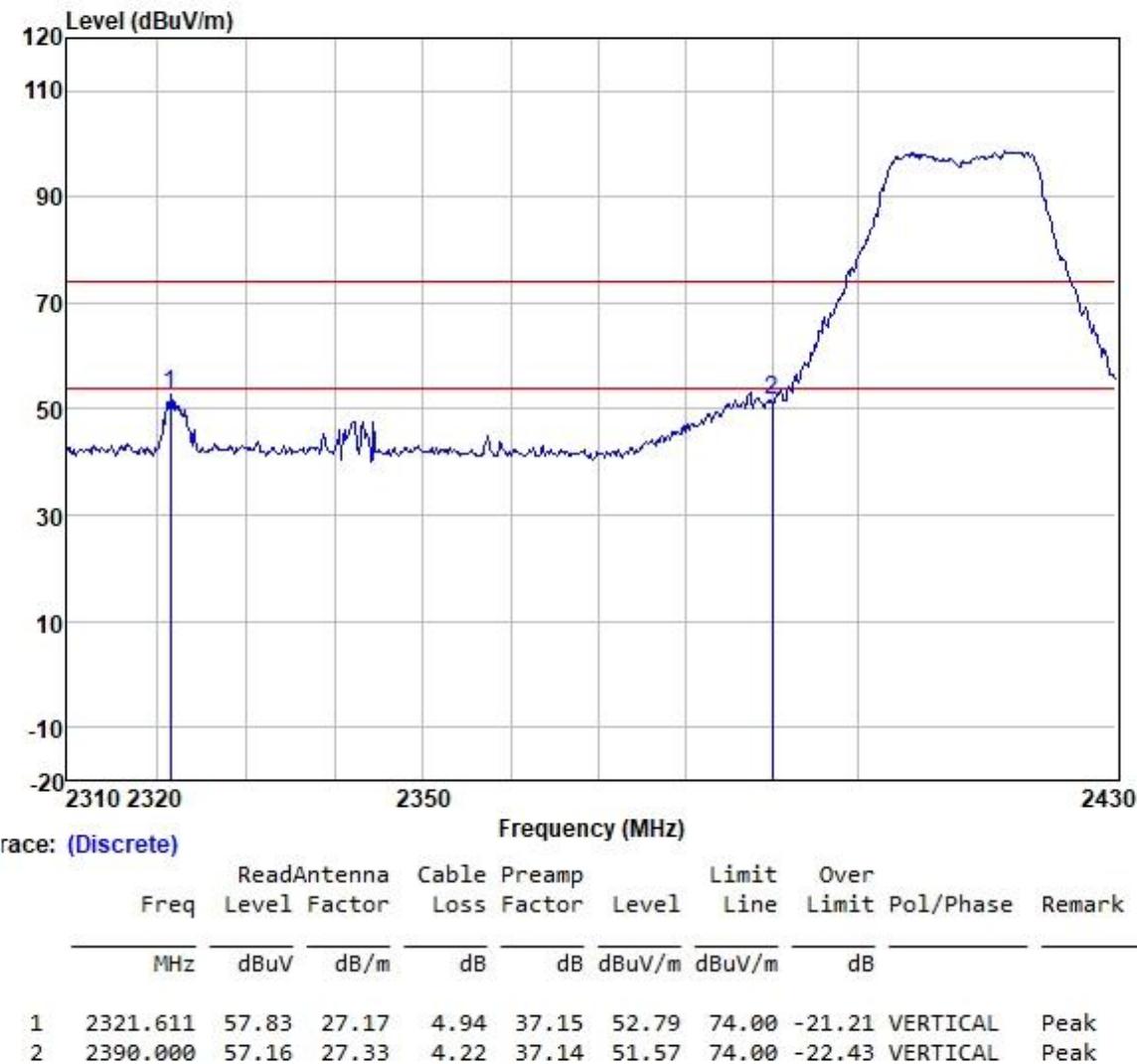
Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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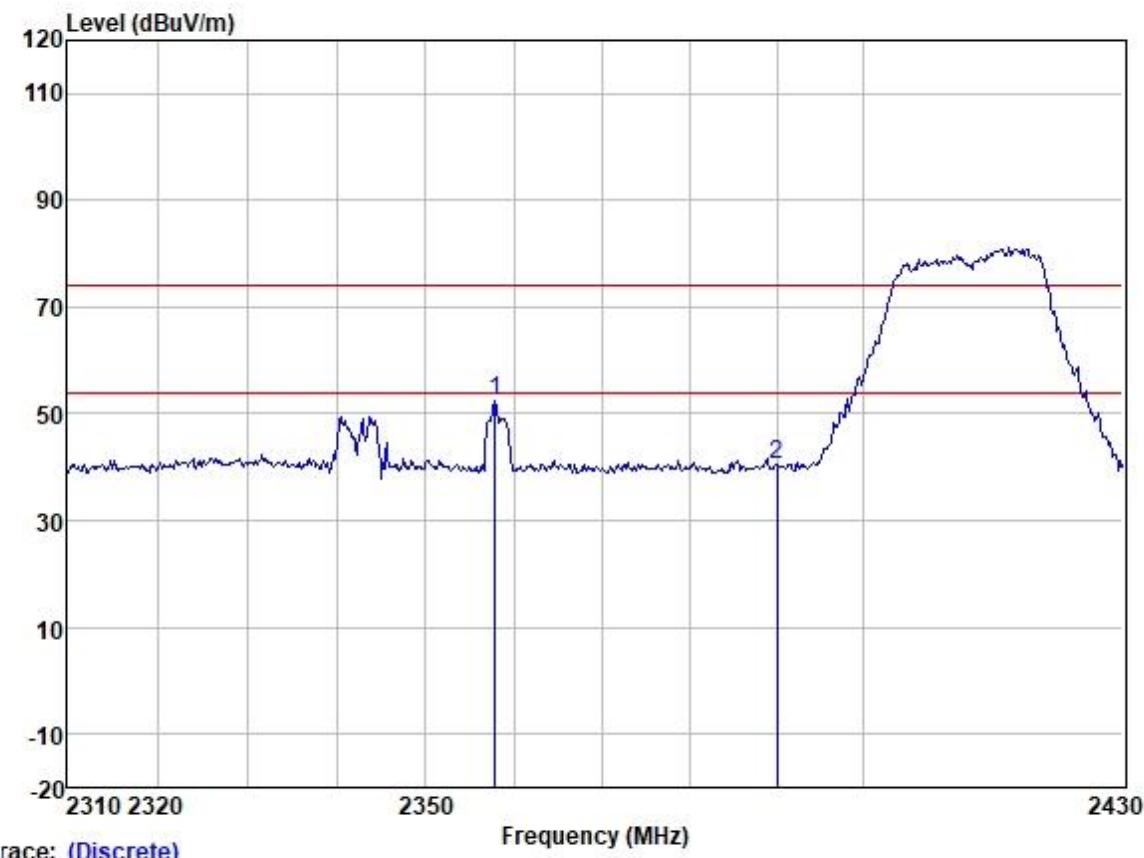
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

		ReadAntenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2357.869	57.74	27.27	4.46	37.15	52.32	74.00	-21.68	HORIZONTAL	Peak
2	2390.000	46.04	27.33	4.22	37.14	40.45	74.00	-33.55	HORIZONTAL	Peak

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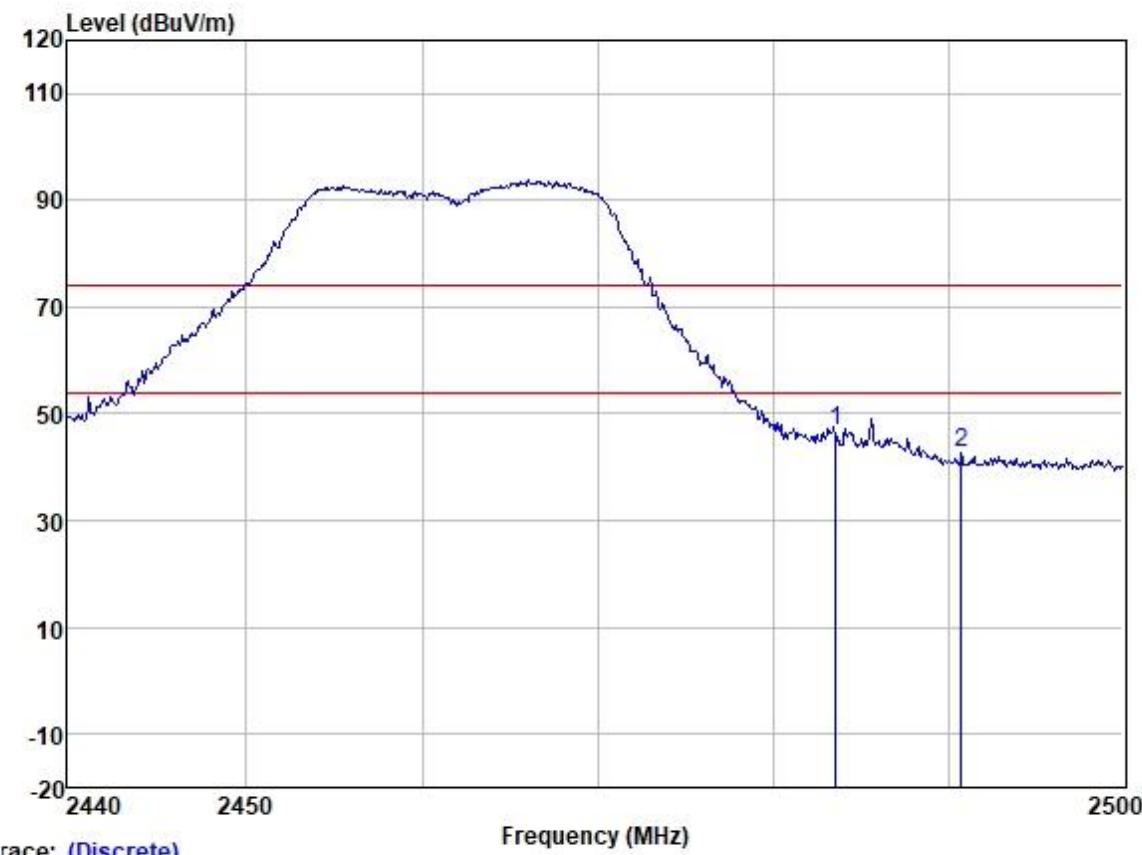
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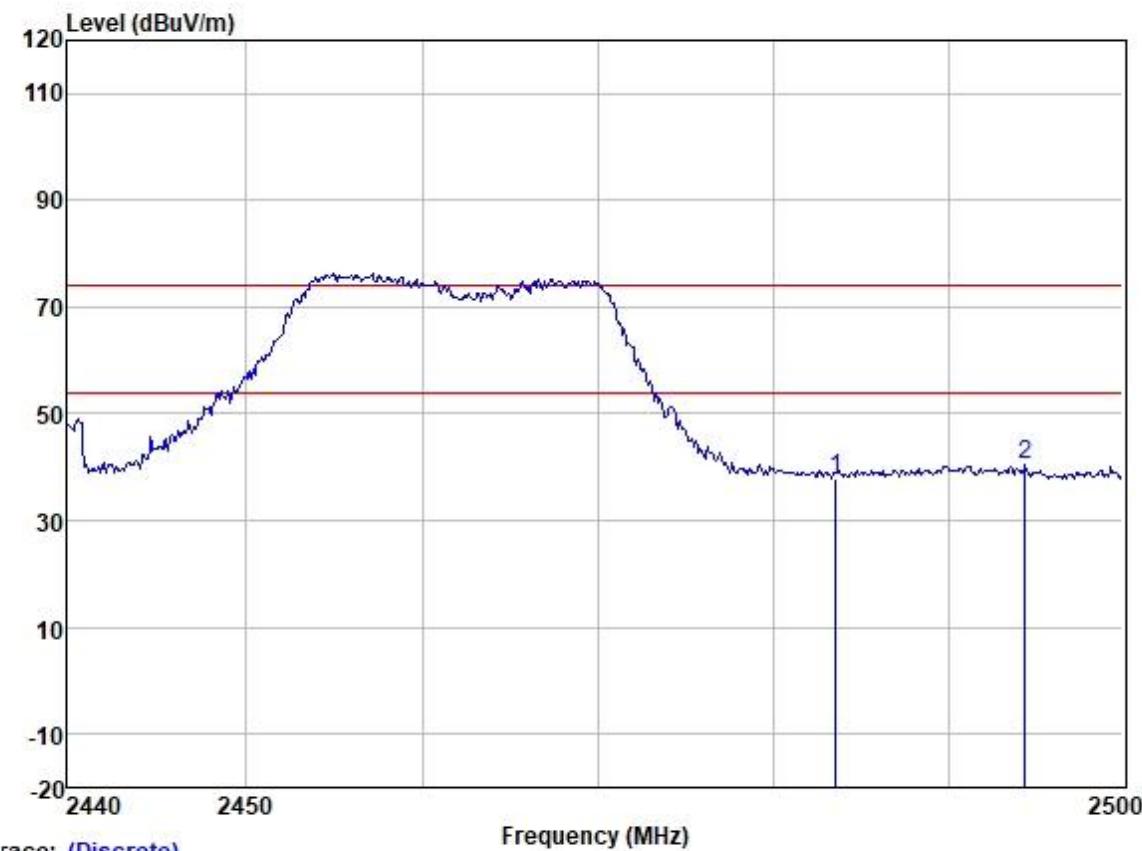
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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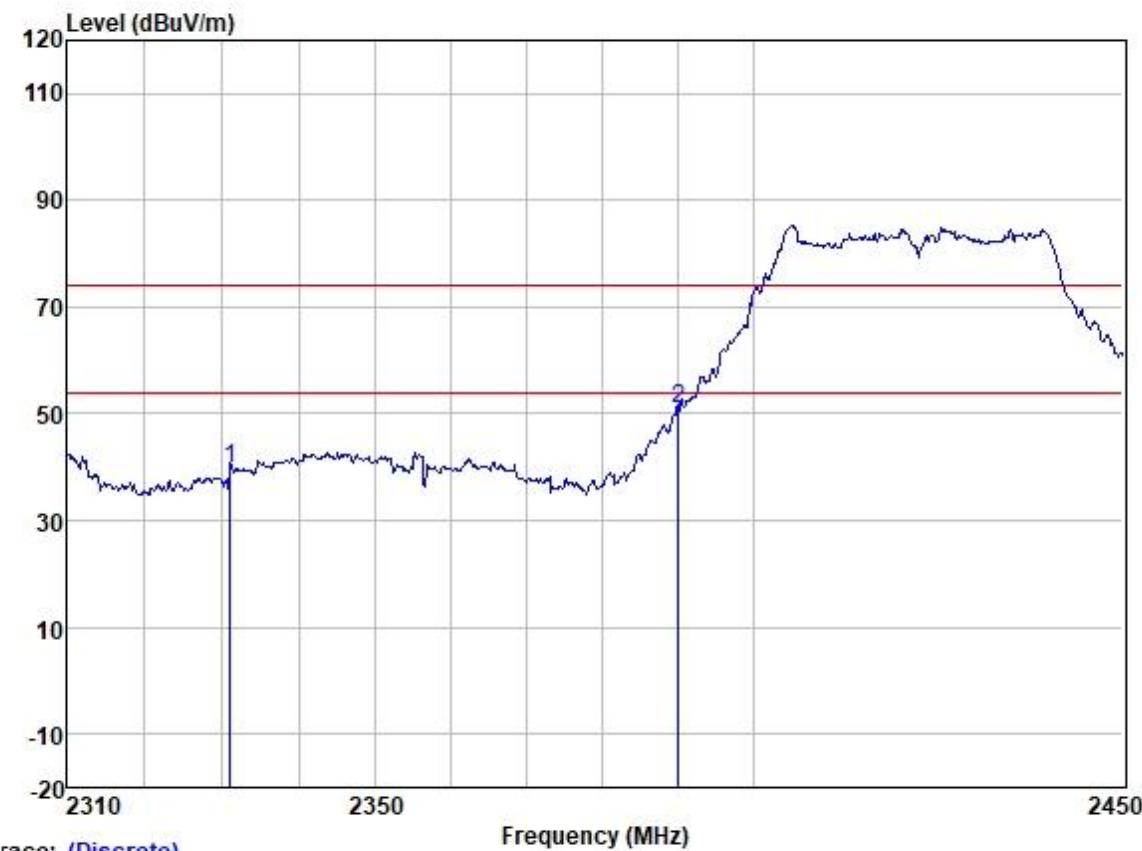
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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



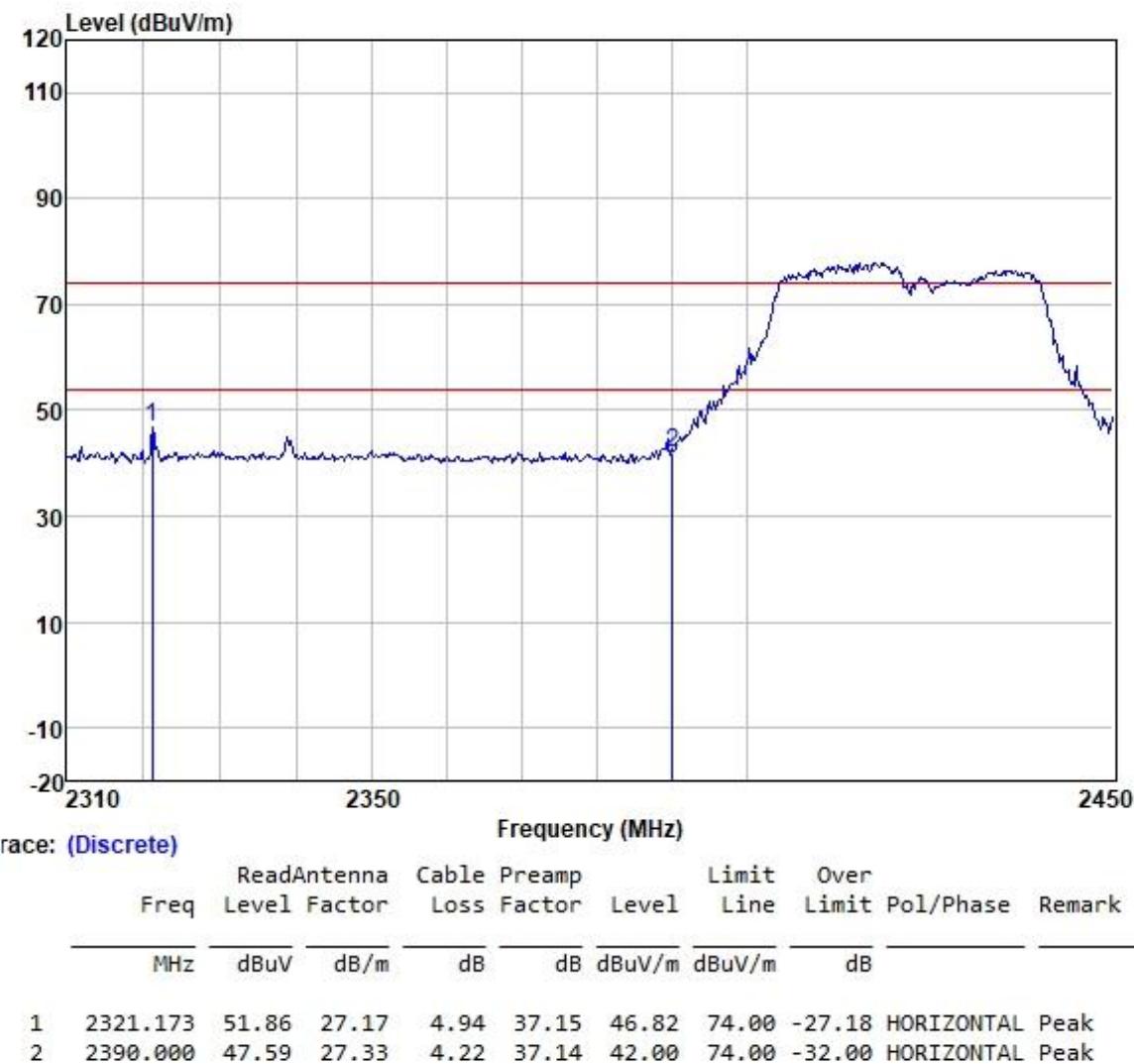
	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Line Factor	Limit Level	Over Line Limit	Over Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2331.027	44.87	27.20	4.76	37.15	39.68	74.00	-34.32	VERTICAL Peak
2	2390.000	56.68	27.33	4.22	37.14	51.09	74.00	-22.91	VERTICAL Peak



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



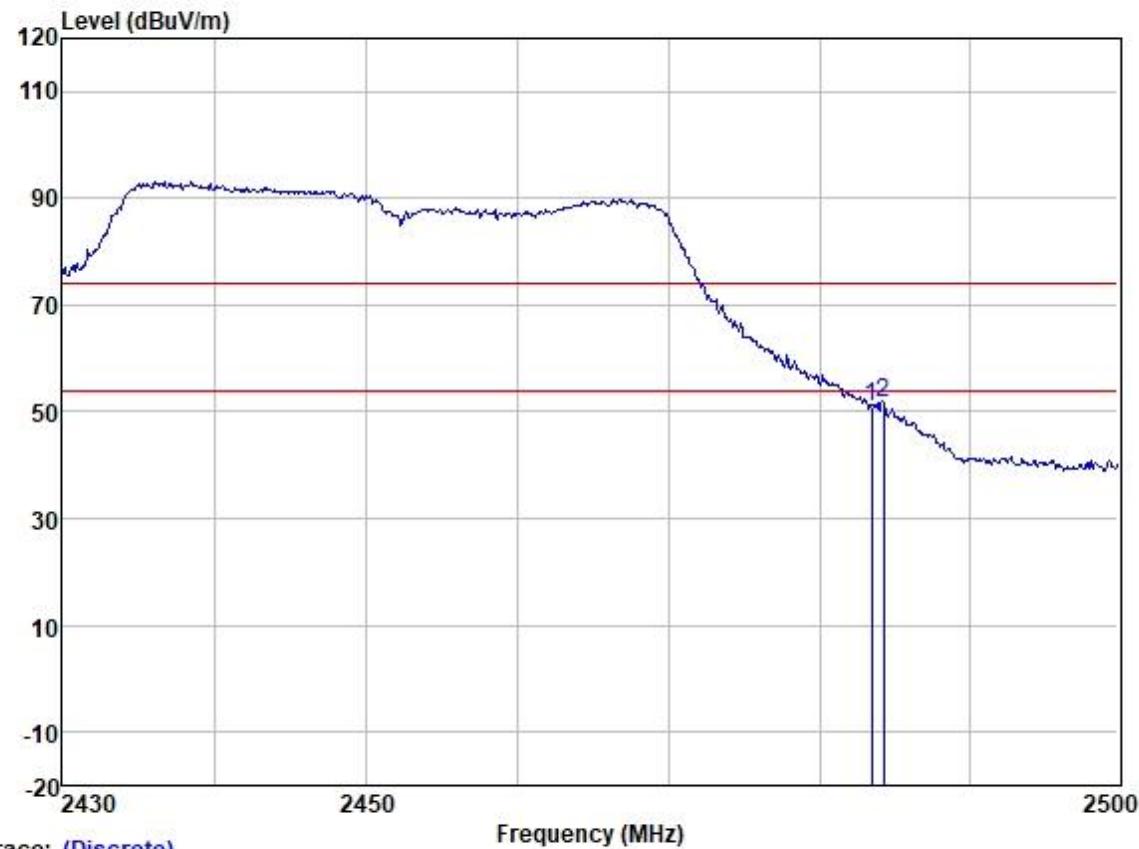
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

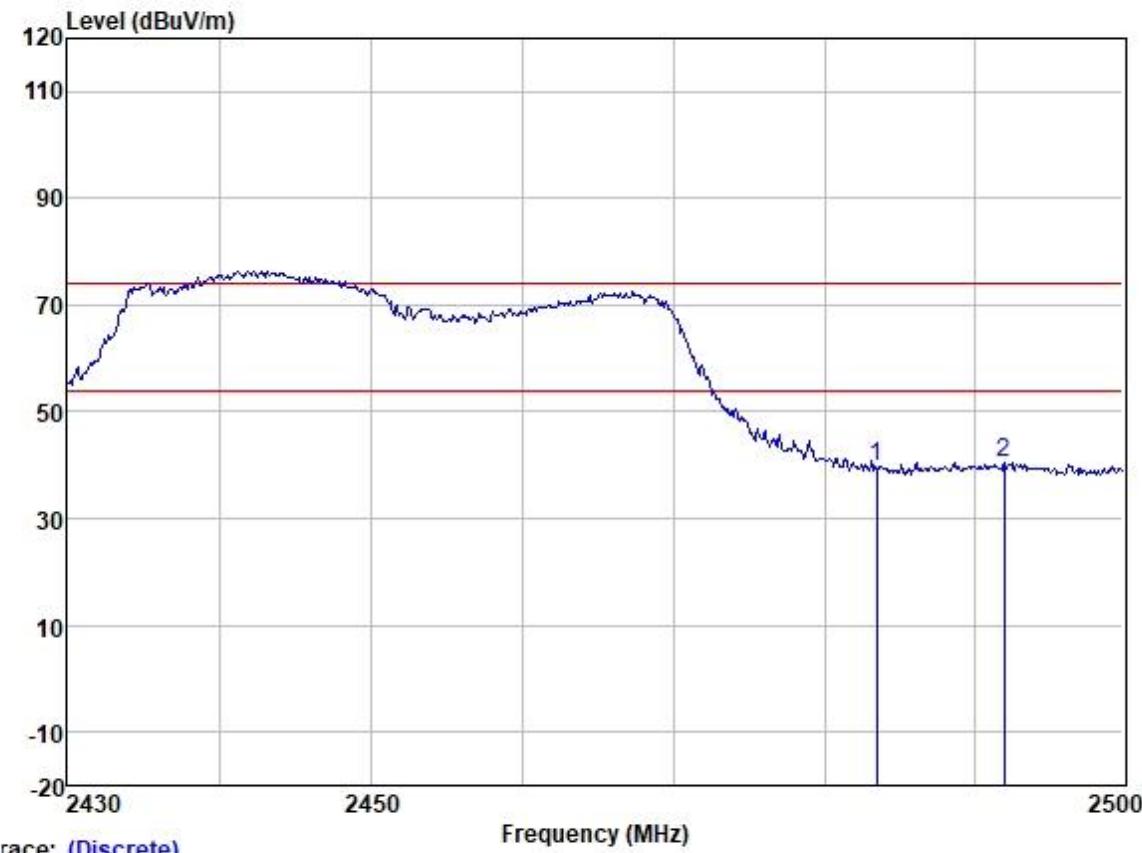
		ReadAntenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	57.11	27.48	3.42	37.13	50.88	74.00	-23.12	VERTICAL	Peak
2	2484.288	57.83	27.48	3.42	37.13	51.60	74.00	-22.40	VERTICAL	Peak



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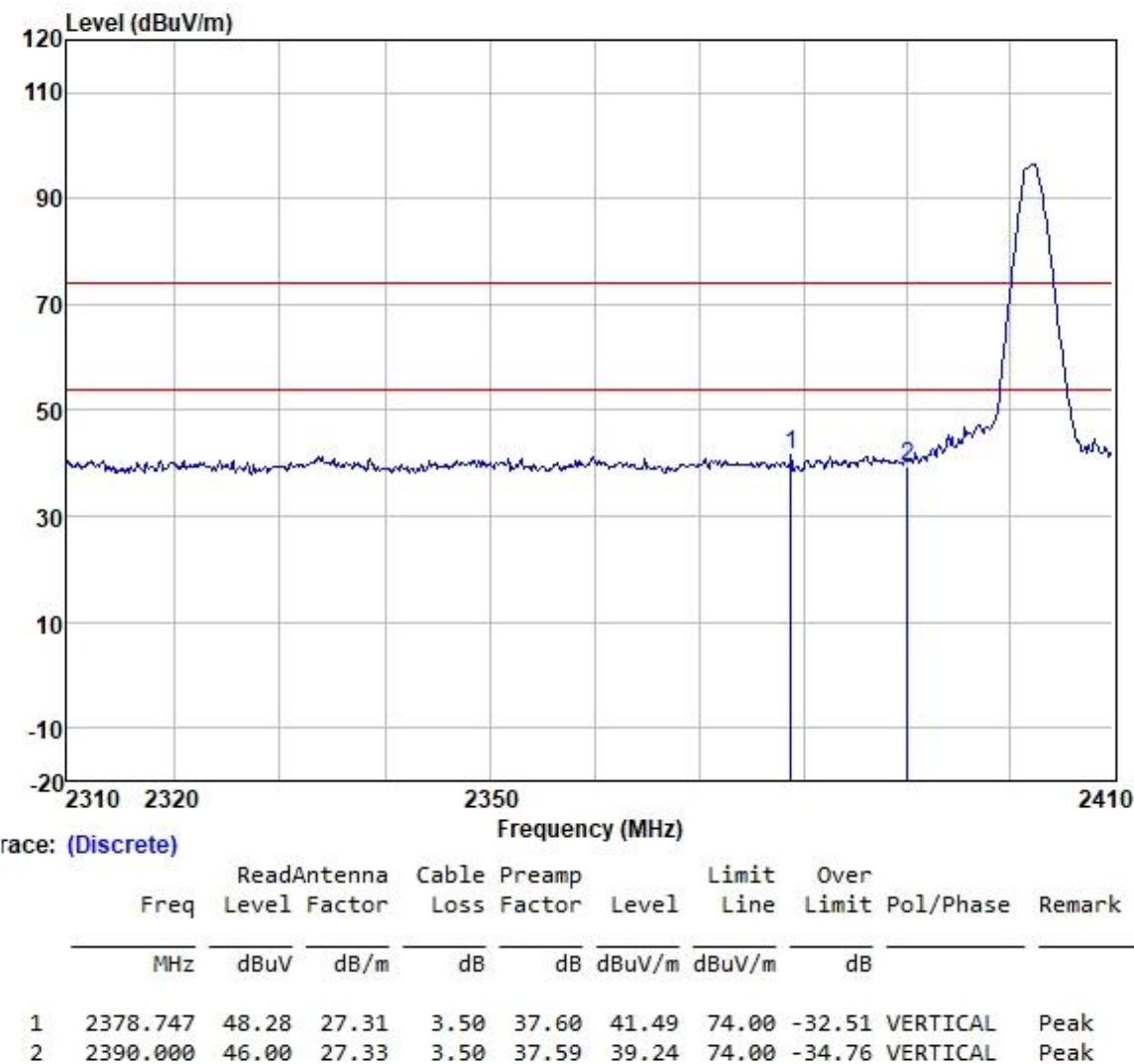
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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



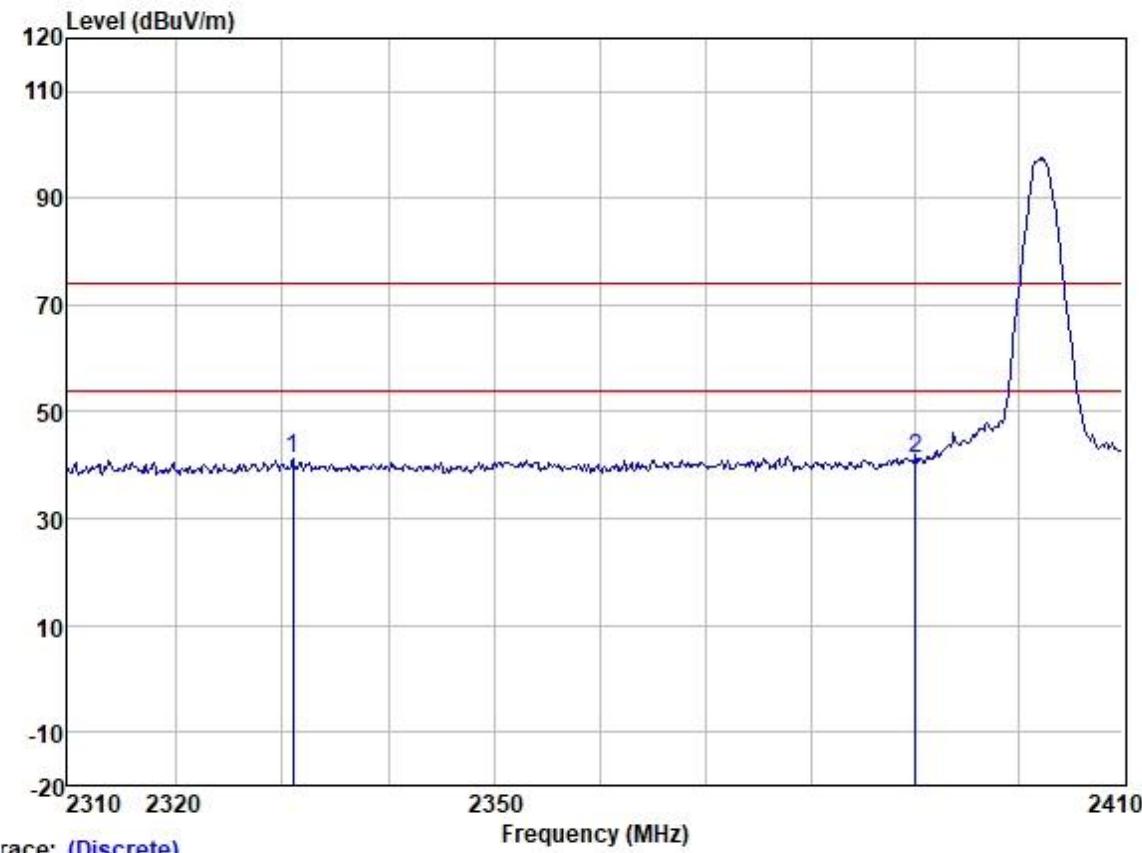
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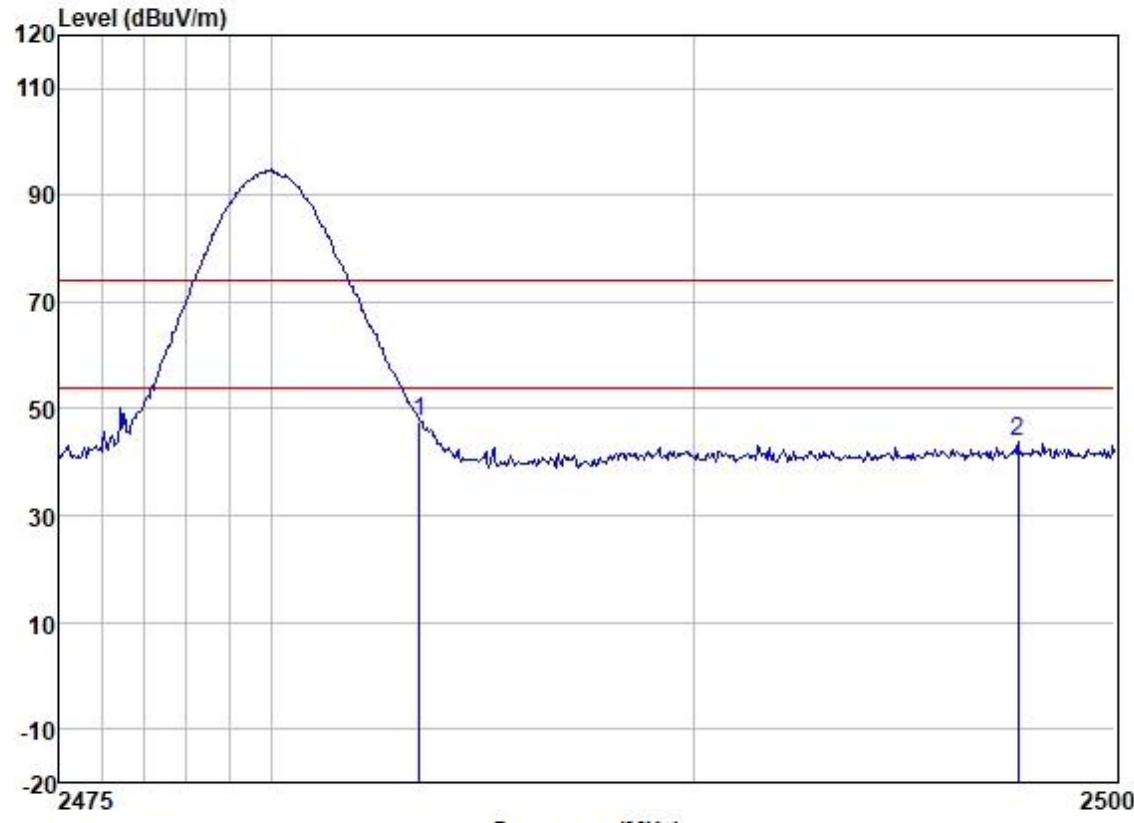
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



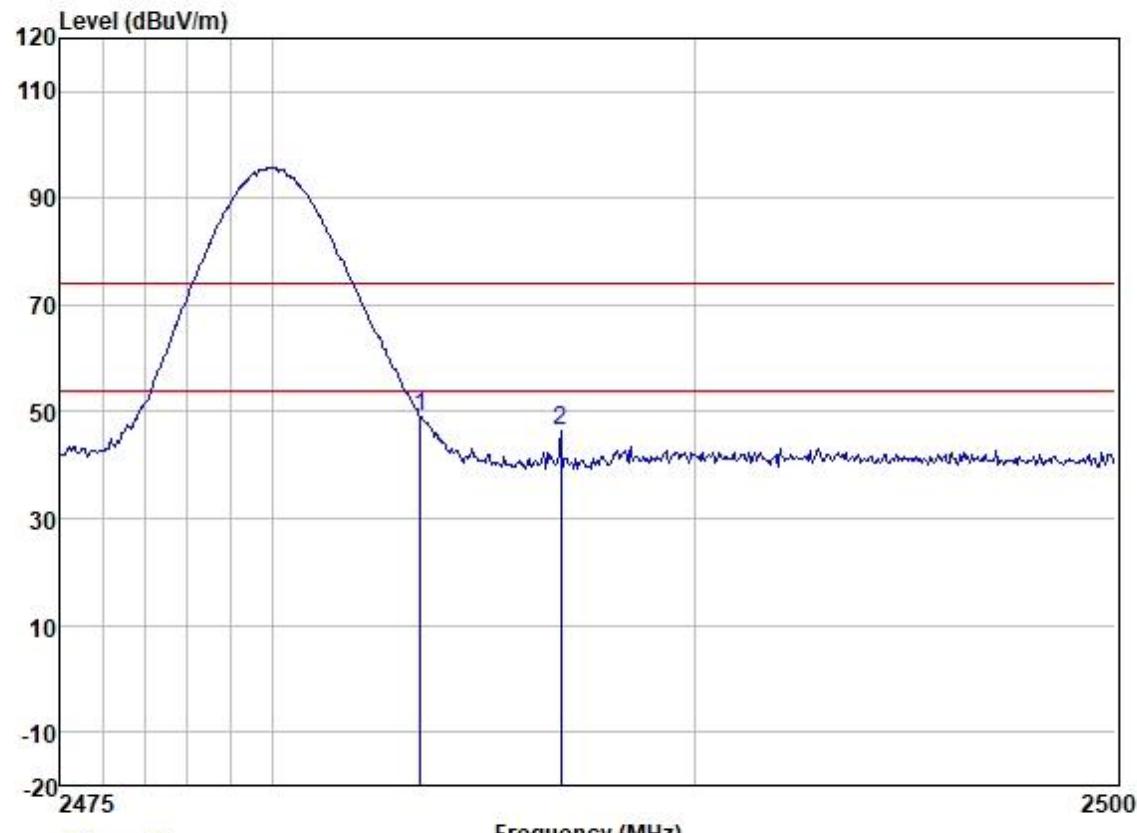
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



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



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit	Over	Pol/Phase	Remark	
	MHz	dBuV	Level Factor	Loss Factor	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	55.79	27.48	3.54	37.57	49.24	74.00	-24.76	HORIZONTAL Peak
2	2486.819	52.87	27.48	3.54	37.57	46.32	74.00	-27.68	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:

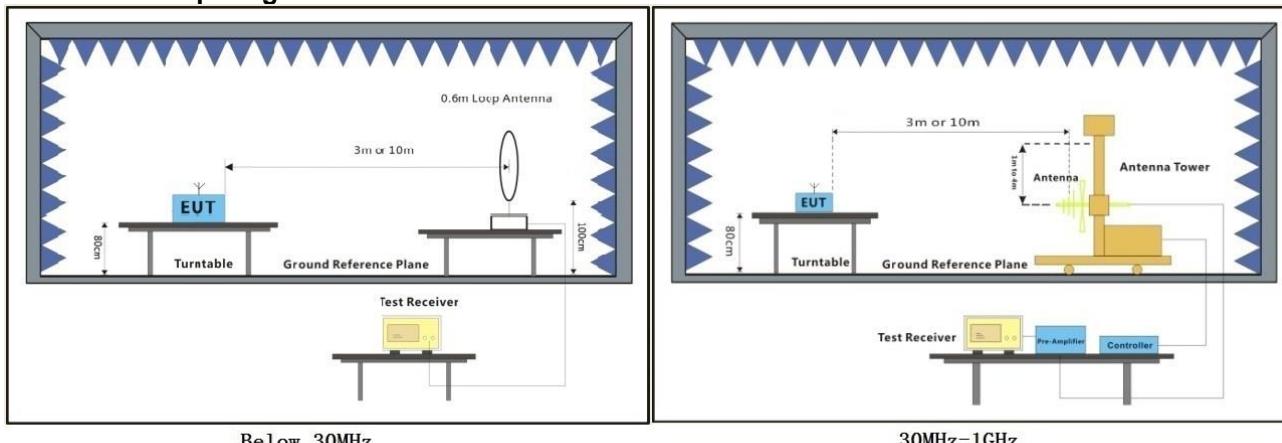
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 60.1 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram

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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.

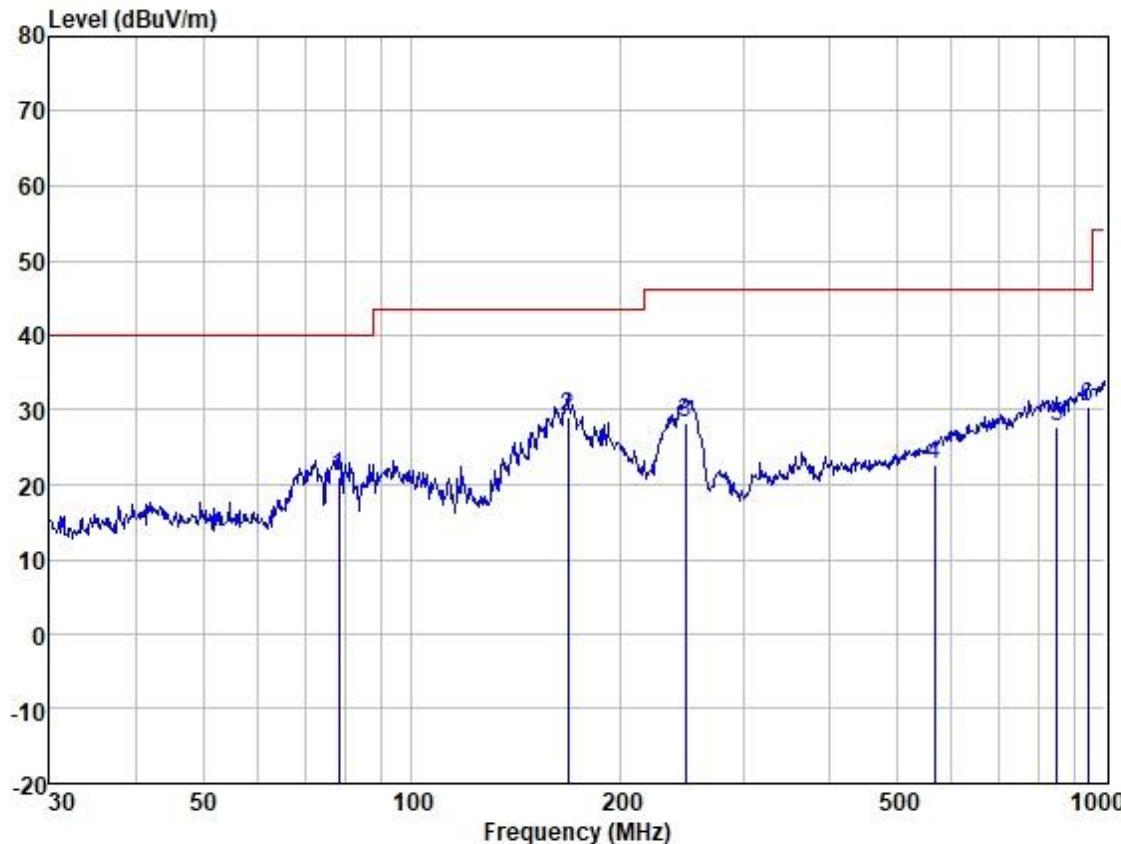
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Test Mode: 00 & 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	78.413	37.02	9.48	1.47	27.02	20.95	40.00	-19.05	HORIZONTAL QP
2	167.824	39.97	13.34	2.38	26.65	29.04	43.50	-14.46	HORIZONTAL QP
3	247.682	40.29	11.74	2.90	26.54	28.39	46.00	-17.61	HORIZONTAL QP
4	566.622	26.93	18.83	4.93	28.13	22.56	46.00	-23.44	HORIZONTAL QP
5	851.035	26.49	22.52	6.55	27.79	27.77	46.00	-18.23	HORIZONTAL QP
6	945.440	26.66	24.12	7.12	27.60	30.30	46.00	-15.70	HORIZONTAL QP

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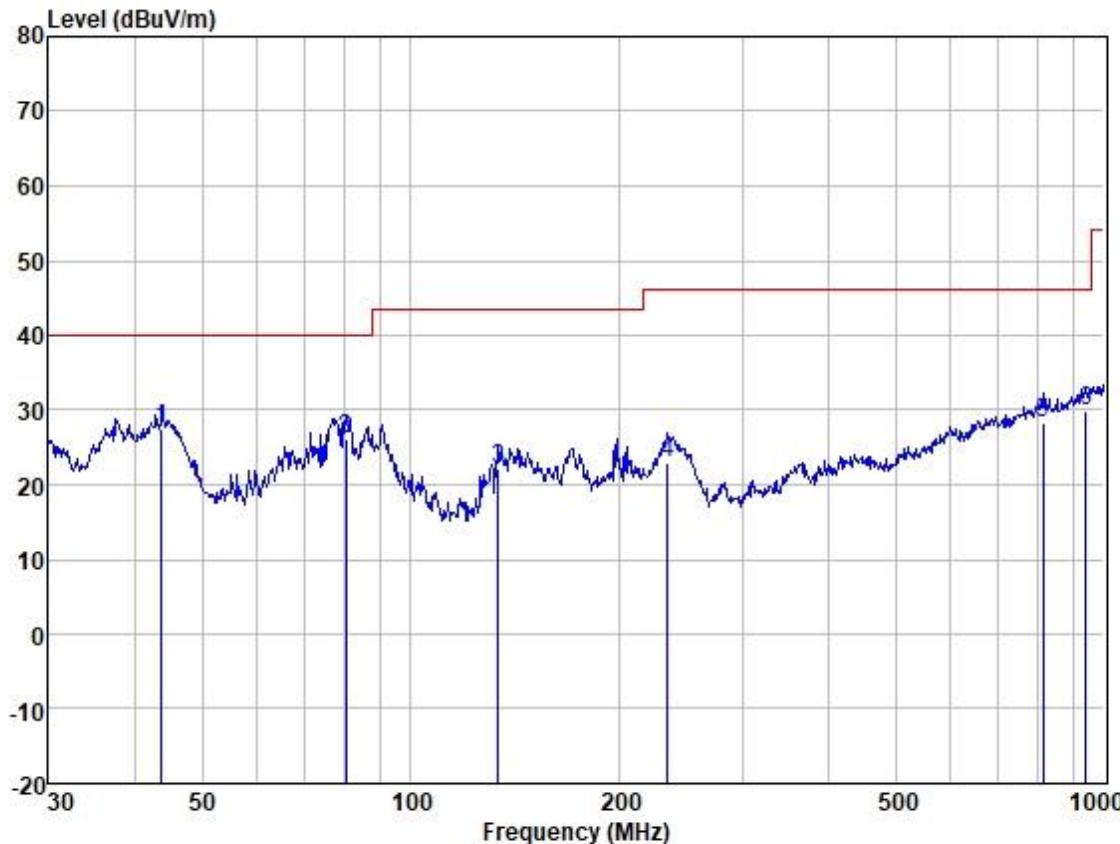
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Test Mode: 00 & 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : SGS
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	39.75	13.82	1.12	27.10	27.59	40.00	-12.41	VERTICAL	QP
2 80.644	42.44	9.10	1.48	27.02	26.00	40.00	-14.00	VERTICAL	QP
3 133.619	34.55	12.56	2.01	26.88	22.24	43.50	-21.26	VERTICAL	QP
4 234.168	35.51	11.22	2.76	26.57	22.92	46.00	-23.08	VERTICAL	QP
5 815.968	26.47	23.33	6.23	27.88	28.15	46.00	-17.85	VERTICAL	QP
6 942.131	26.47	23.99	7.12	27.61	29.97	46.00	-16.03	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

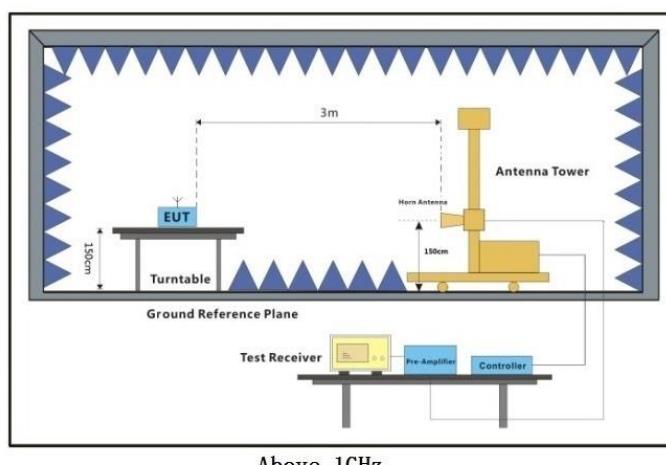
7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 62.3 % RH Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
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), 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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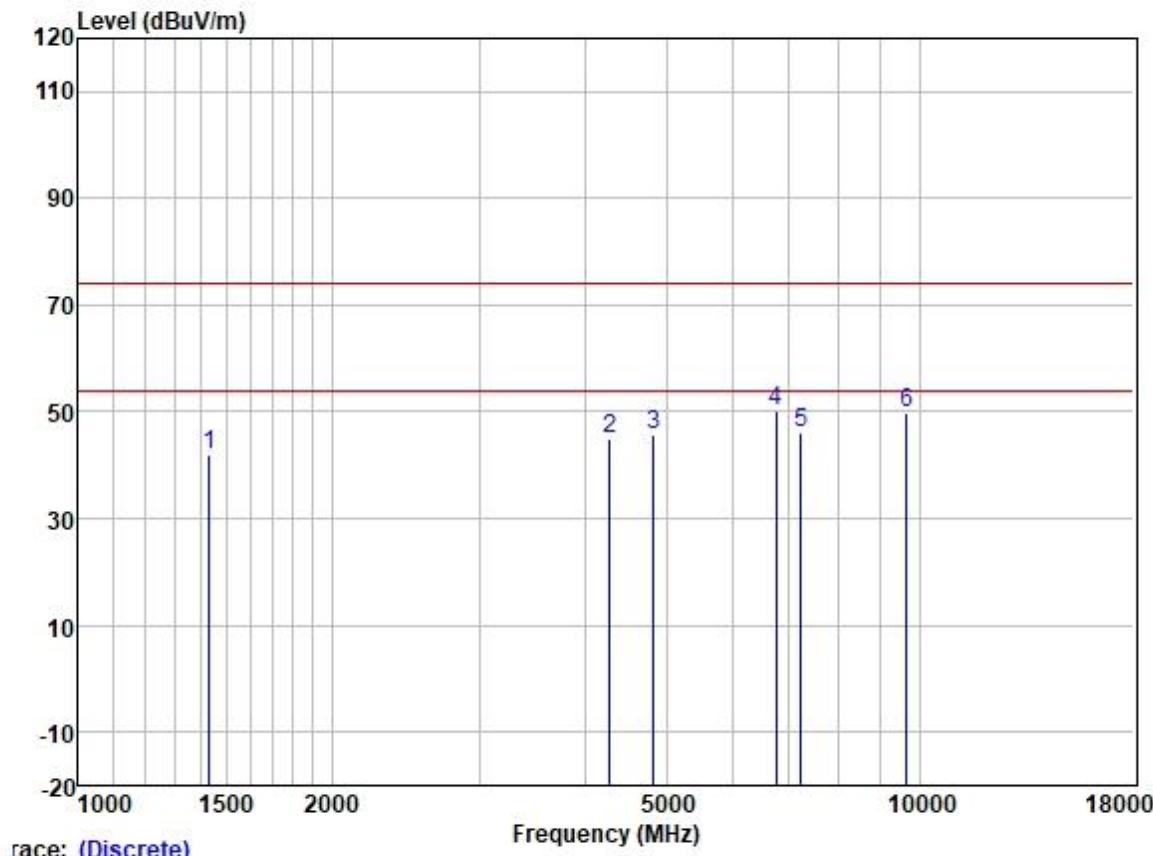


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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	dB				
1	1431.047	51.59	25.43	2.80	37.88	41.94	74.00	-32.06	VERTICAL	peak		
2	4279.589	45.99	30.42	5.27	36.65	45.03	74.00	-28.97	VERTICAL	peak		
3	4824.000	45.40	31.45	5.46	36.50	45.81	74.00	-28.19	VERTICAL	peak		
4	6756.708	45.73	34.56	6.32	36.44	50.17	74.00	-23.83	VERTICAL	peak		
5	7236.000	41.01	35.70	6.35	36.94	46.12	74.00	-27.88	VERTICAL	peak		
6	9648.000	40.22	38.40	7.89	36.85	49.66	74.00	-24.34	VERTICAL	peak		

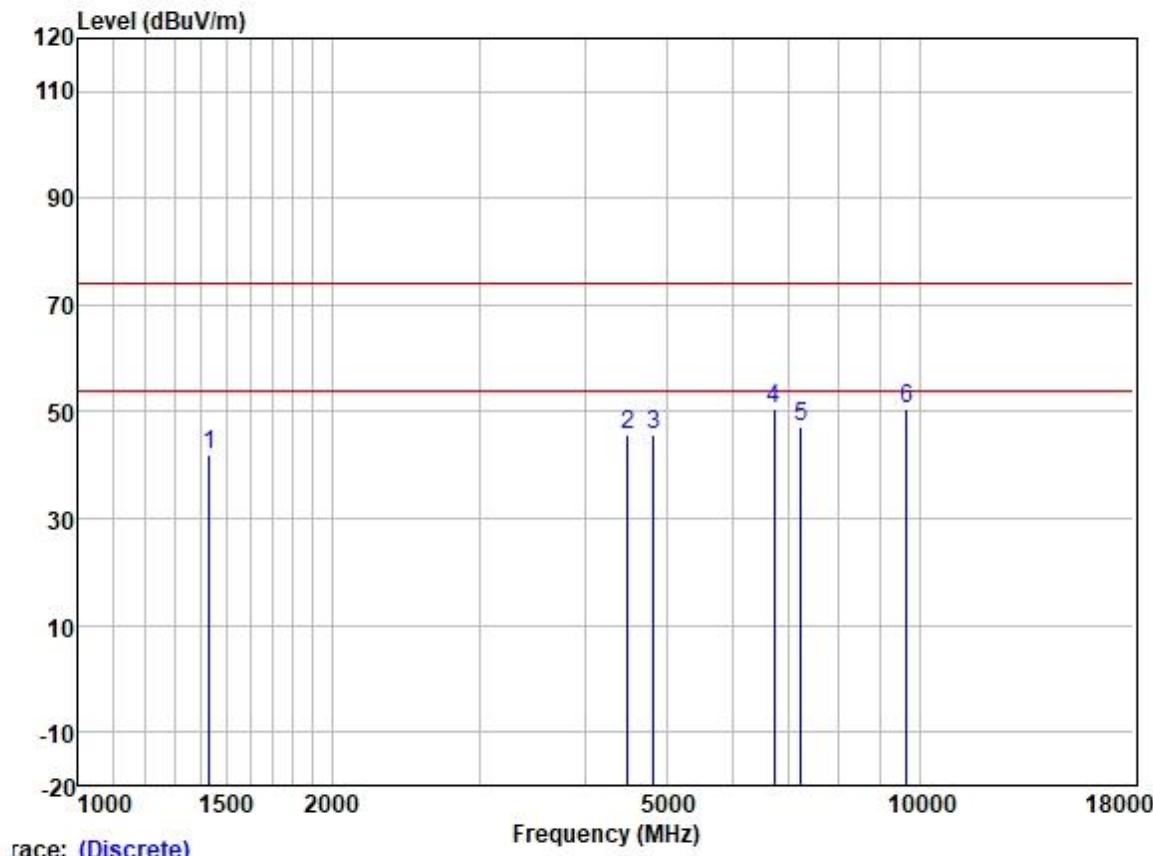
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1431.047	51.49	25.43	2.80	37.88	41.84	74.00	-32.16 HORIZONTAL peak
2	4495.125	46.00	30.80	5.33	36.60	45.53	74.00	-28.47 HORIZONTAL peak
3	4824.000	45.27	31.45	5.46	36.50	45.68	74.00	-28.32 HORIZONTAL peak
4	6717.762	46.26	34.44	6.29	36.42	50.57	74.00	-23.43 HORIZONTAL peak
5	7236.000	42.19	35.70	6.35	36.94	47.30	74.00	-26.70 HORIZONTAL peak
6	9648.000	41.24	38.40	7.89	36.85	50.68	74.00	-23.32 HORIZONTAL peak

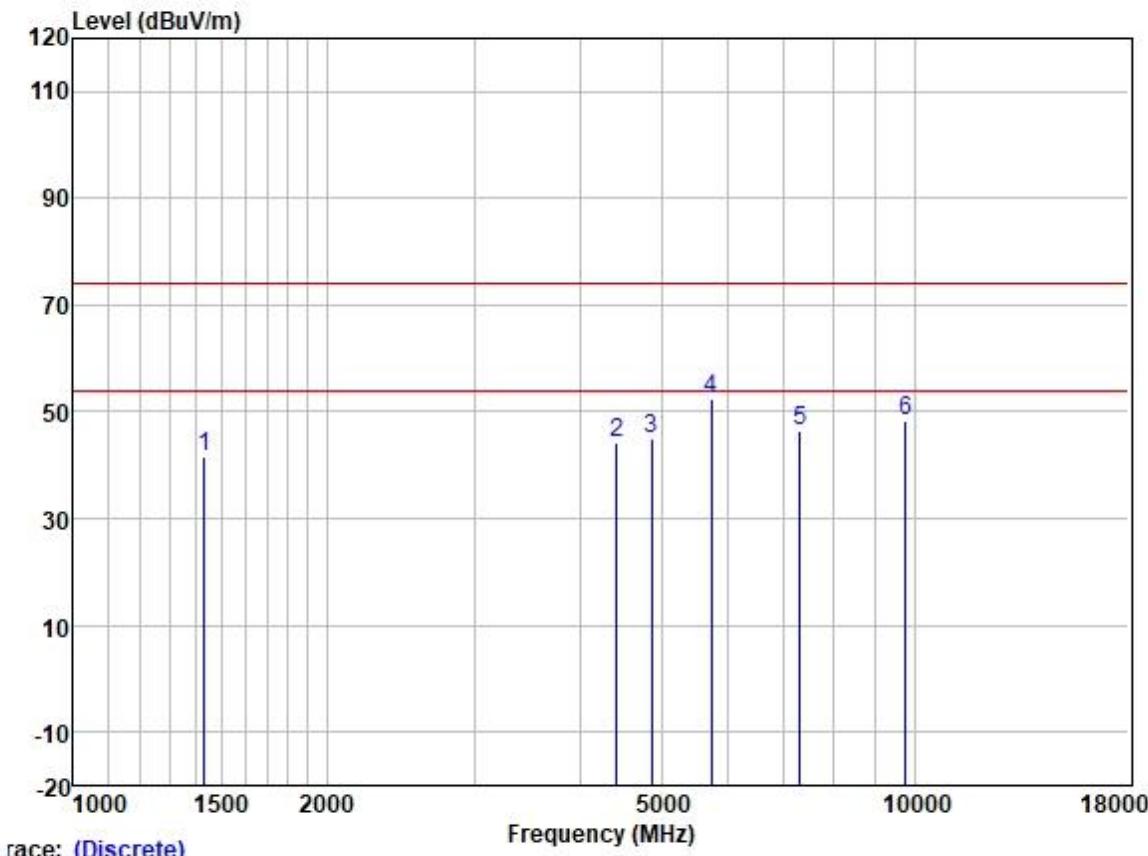
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	1431.047	51.30	25.43	2.80	37.88	41.65	74.00	-32.35	VERTICAL	peak
2	4430.628	44.88	30.72	5.36	36.62	44.34	74.00	-29.66	VERTICAL	peak
3	4874.000	44.36	31.54	5.49	36.48	44.91	74.00	-29.09	VERTICAL	peak
4	5730.396	50.88	32.07	5.71	36.15	52.51	74.00	-21.49	VERTICAL	peak
5	7311.000	41.32	35.93	6.32	36.99	46.58	74.00	-27.42	VERTICAL	peak
6	9748.000	39.15	38.50	7.43	36.83	48.25	74.00	-25.75	VERTICAL	peak

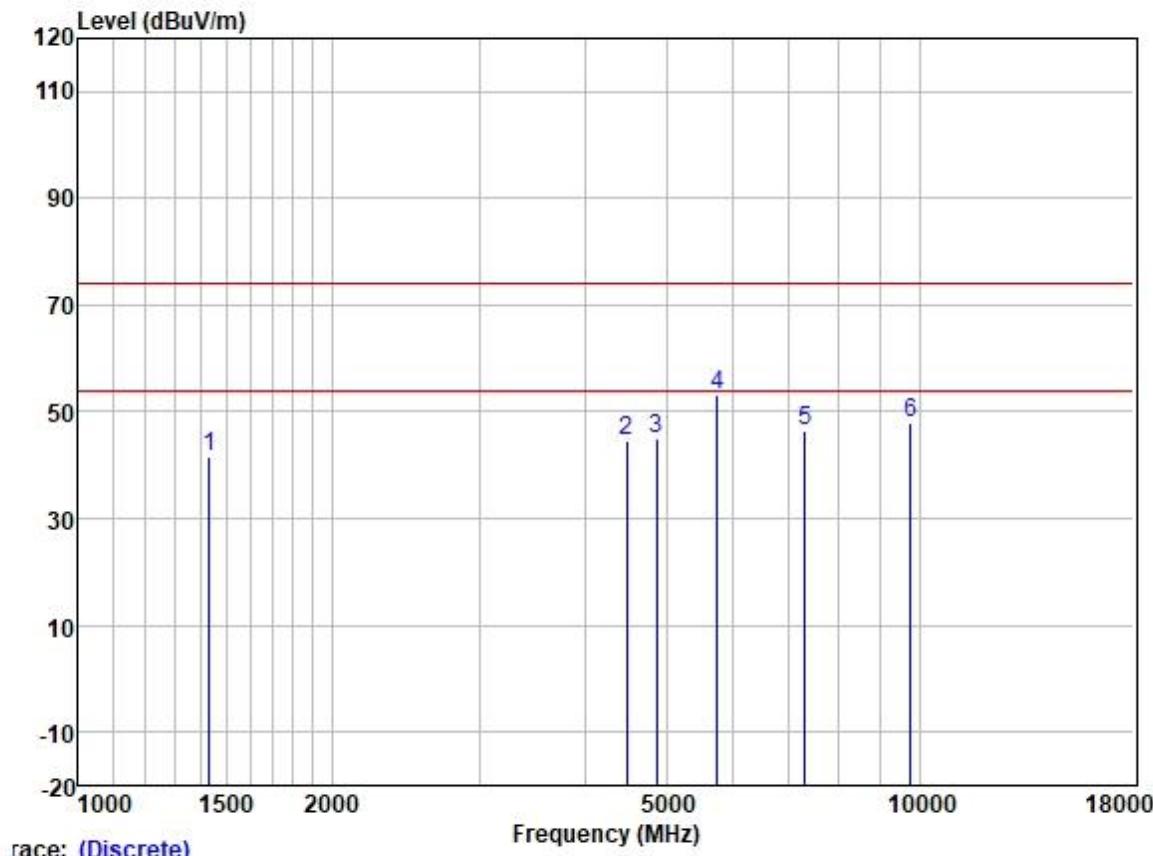
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss Factor				
1	1431.047	51.08	25.43	2.80	37.88	41.43	74.00	-32.57 HORIZONTAL peak
2	4482.150	45.00	30.78	5.34	36.61	44.51	74.00	-29.49 HORIZONTAL peak
3	4874.000	44.59	31.54	5.49	36.48	45.14	74.00	-28.86 HORIZONTAL peak
4	5746.982	51.40	32.10	5.70	36.14	53.06	74.00	-20.94 HORIZONTAL peak
5	7311.000	41.27	35.93	6.32	36.99	46.53	74.00	-27.47 HORIZONTAL peak
6	9748.000	38.70	38.50	7.43	36.83	47.80	74.00	-26.20 HORIZONTAL peak

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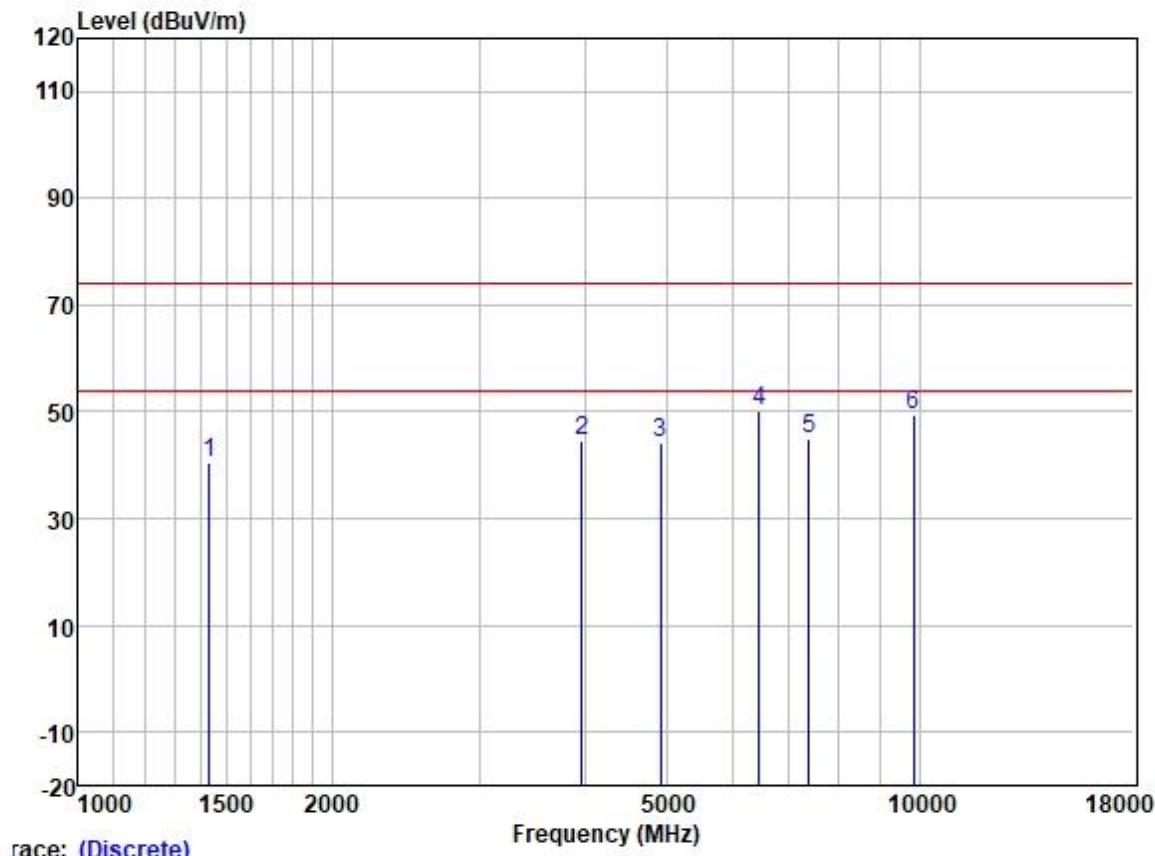
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1431.047	50.29	25.43	2.80	37.88	40.64	74.00	-33.36	VERTICAL	peak
2	3969.767	46.21	29.77	5.18	36.70	44.46	74.00	-29.54	VERTICAL	peak
3	4924.000	43.63	31.62	5.51	36.45	44.31	74.00	-29.69	VERTICAL	peak
4	6451.353	46.55	33.88	6.20	36.27	50.36	74.00	-23.64	VERTICAL	peak
5	7386.000	39.63	36.17	6.30	37.04	45.06	74.00	-28.94	VERTICAL	peak
6	9848.000	40.65	38.58	7.06	36.82	49.47	74.00	-24.53	VERTICAL	peak

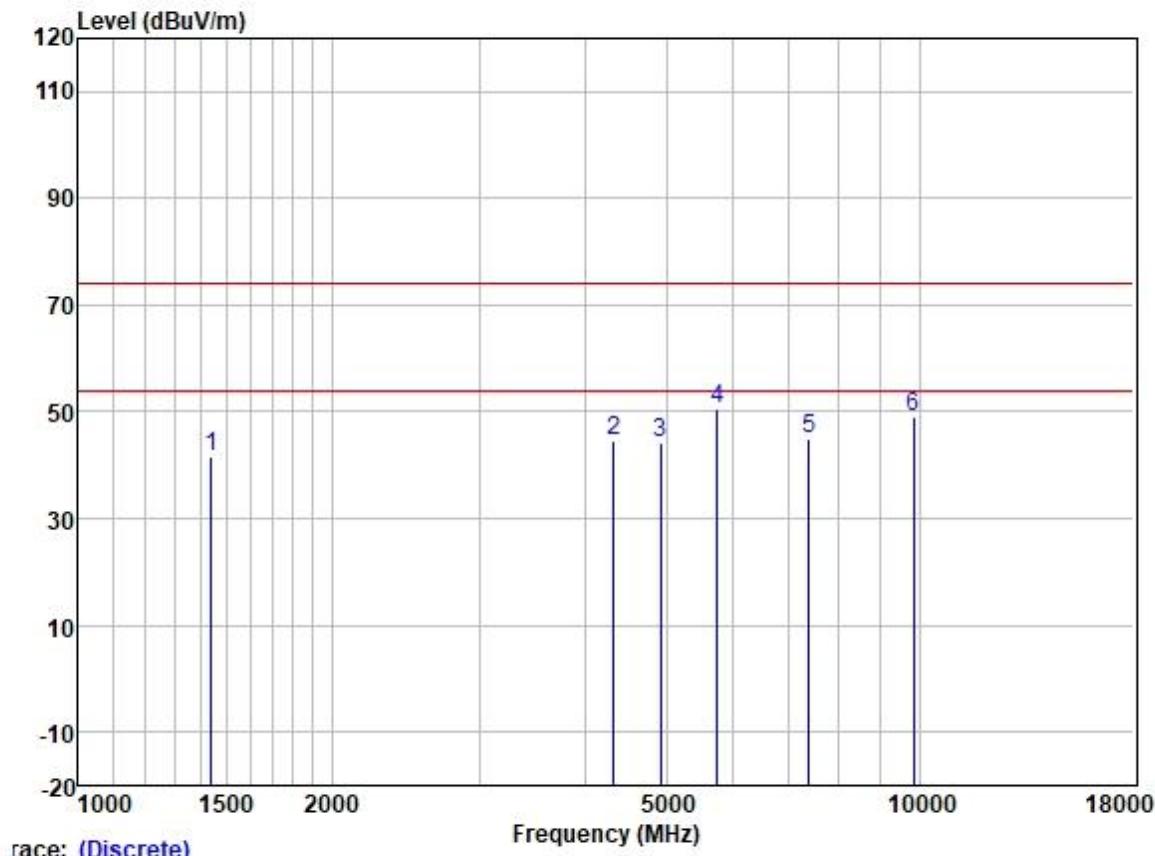
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1439.343	51.02	25.44	2.80	37.84	41.42	74.00	-32.58	HORIZONTAL	peak
2	4329.354	45.45	30.54	5.31	36.64	44.66	74.00	-29.34	HORIZONTAL	peak
3	4924.000	43.63	31.62	5.51	36.45	44.31	74.00	-29.69	HORIZONTAL	peak
4	5746.982	49.07	32.10	5.70	36.14	50.73	74.00	-23.27	HORIZONTAL	peak
5	7386.000	39.41	36.17	6.30	37.04	44.84	74.00	-29.16	HORIZONTAL	peak
6	9848.000	40.33	38.58	7.06	36.82	49.15	74.00	-24.85	HORIZONTAL	peak

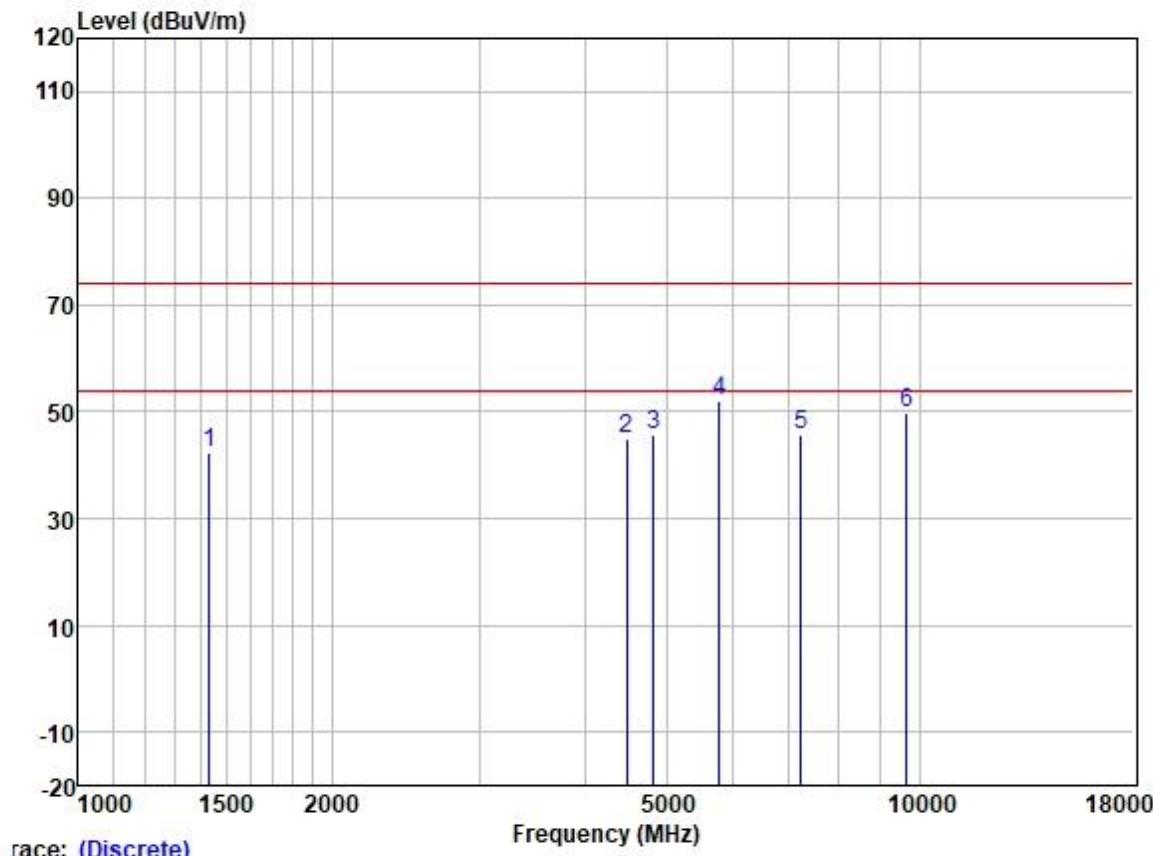
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1431.047	52.08	25.43	2.80	37.88	42.43	74.00	-31.57	VERTICAL		peak	
2	4482.150	45.31	30.78	5.34	36.61	44.82	74.00	-29.18	VERTICAL		peak	
3	4824.000	45.18	31.45	5.46	36.50	45.59	74.00	-28.41	VERTICAL		peak	
4	5780.300	50.37	32.16	5.68	36.14	52.07	74.00	-21.93	VERTICAL		peak	
5	7236.000	40.64	35.70	6.35	36.94	45.75	74.00	-28.25	VERTICAL		peak	
6	9648.000	40.28	38.40	7.89	36.85	49.72	74.00	-24.28	VERTICAL		peak	

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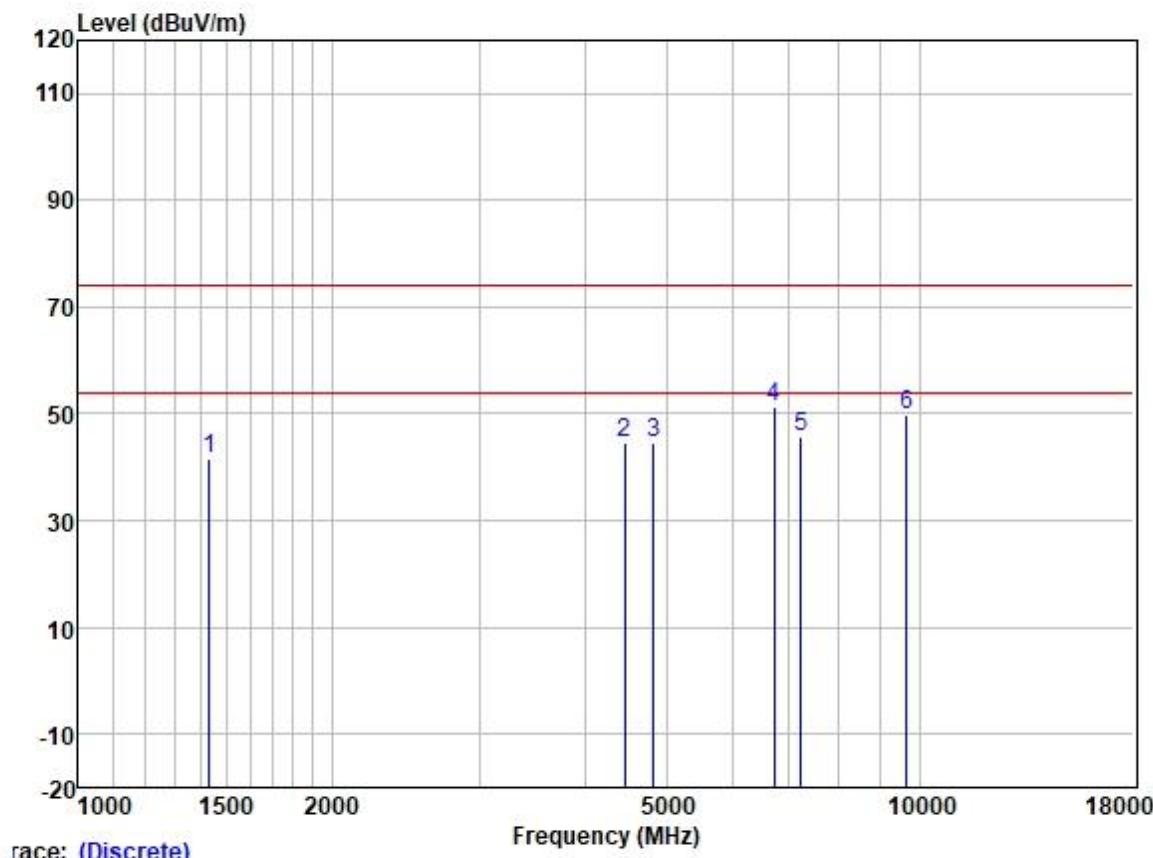
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1 1431.047	51.30	25.43	2.80	37.88	41.65	74.00	-32.35	HORIZONTAL	peak		
2 4456.315	45.18	30.75	5.35	36.62	44.66	74.00	-29.34	HORIZONTAL	peak		
3 4824.000	44.31	31.45	5.46	36.50	44.72	74.00	-29.28	HORIZONTAL	peak		
4 6717.762	47.11	34.44	6.29	36.42	51.42	74.00	-22.58	HORIZONTAL	peak		
5 7236.000	40.75	35.70	6.35	36.94	45.86	74.00	-28.14	HORIZONTAL	peak		
6 9648.000	40.29	38.40	7.89	36.85	49.73	74.00	-24.27	HORIZONTAL	peak		

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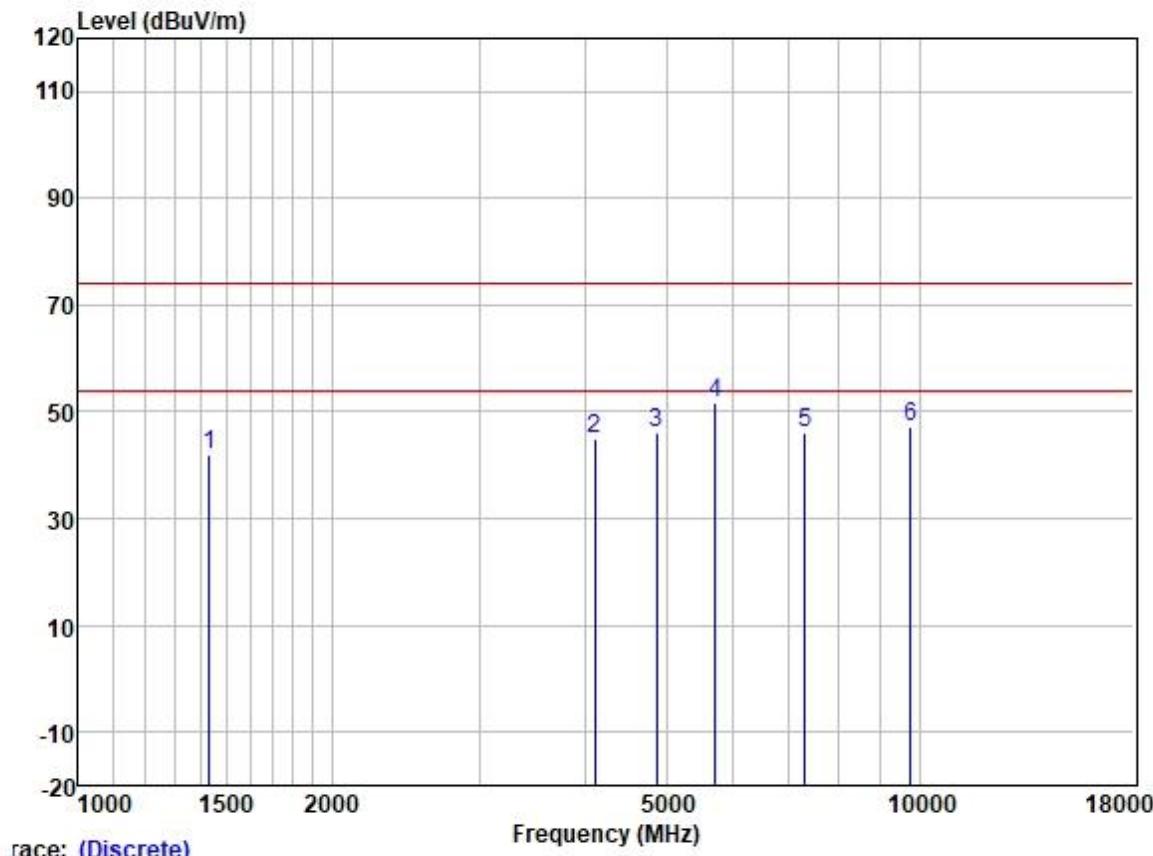
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	1431.047	51.61	25.43	2.80	37.88	41.96	74.00	-32.04	VERTICAL	peak
2	4109.872	46.41	29.96	5.24	36.68	44.93	74.00	-29.07	VERTICAL	peak
3	4874.000	45.71	31.54	5.49	36.48	46.26	74.00	-27.74	VERTICAL	peak
4	5713.856	50.14	32.04	5.72	36.15	51.75	74.00	-22.25	VERTICAL	peak
5	7311.000	40.90	35.93	6.32	36.99	46.16	74.00	-27.84	VERTICAL	peak
6	9748.000	38.16	38.50	7.43	36.83	47.26	74.00	-26.74	VERTICAL	peak

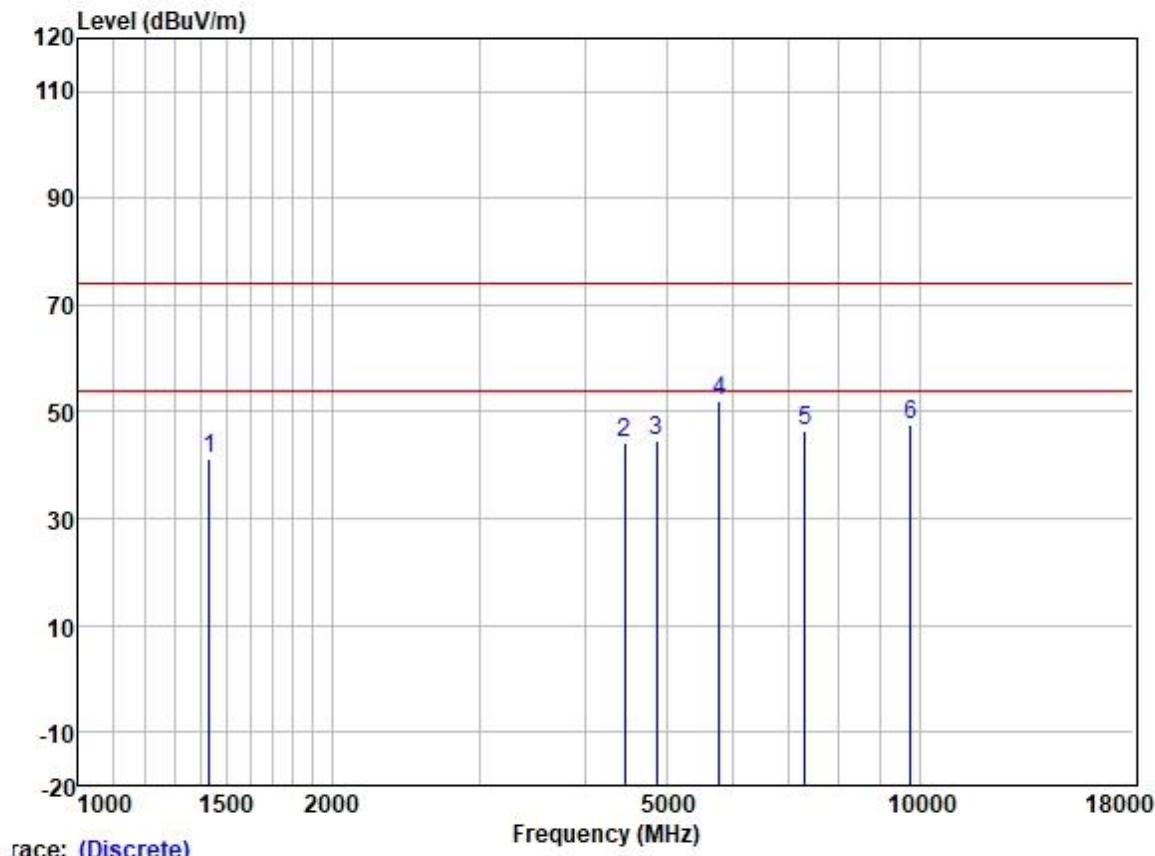
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1431.047	50.93	25.43	2.80	37.88	41.28	74.00	-32.72	HORIZONTAL	peak
2	4456.315	44.81	30.75	5.35	36.62	44.29	74.00	-29.71	HORIZONTAL	peak
3	4874.000	44.05	31.54	5.49	36.48	44.60	74.00	-29.40	HORIZONTAL	peak
4	5780.300	50.28	32.16	5.68	36.14	51.98	74.00	-22.02	HORIZONTAL	peak
5	7311.000	41.14	35.93	6.32	36.99	46.40	74.00	-27.60	HORIZONTAL	peak
6	9748.000	38.59	38.50	7.43	36.83	47.69	74.00	-26.31	HORIZONTAL	peak

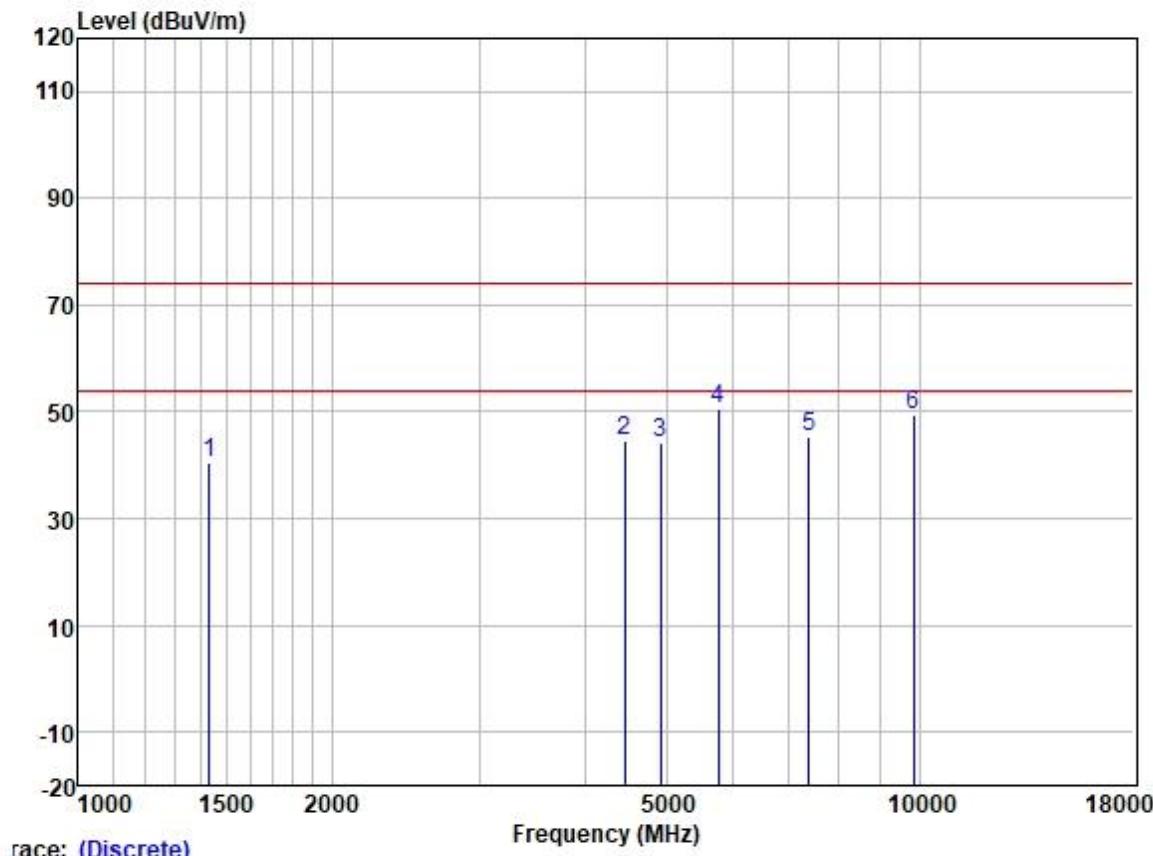
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Pol/Phase	Remark
		Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1431.047	50.29	25.43	2.80	37.88	40.64	74.00	-33.36	VERTICAL	peak	
2	4456.315	44.99	30.75	5.35	36.62	44.47	74.00	-29.53	VERTICAL	peak	
3	4924.000	43.66	31.62	5.51	36.45	44.34	74.00	-29.66	VERTICAL	peak	
4	5763.617	48.99	32.13	5.69	36.14	50.67	74.00	-23.33	VERTICAL	peak	
5	7386.000	39.89	36.17	6.30	37.04	45.32	74.00	-28.68	VERTICAL	peak	
6	9848.000	40.52	38.58	7.06	36.82	49.34	74.00	-24.66	VERTICAL	peak	

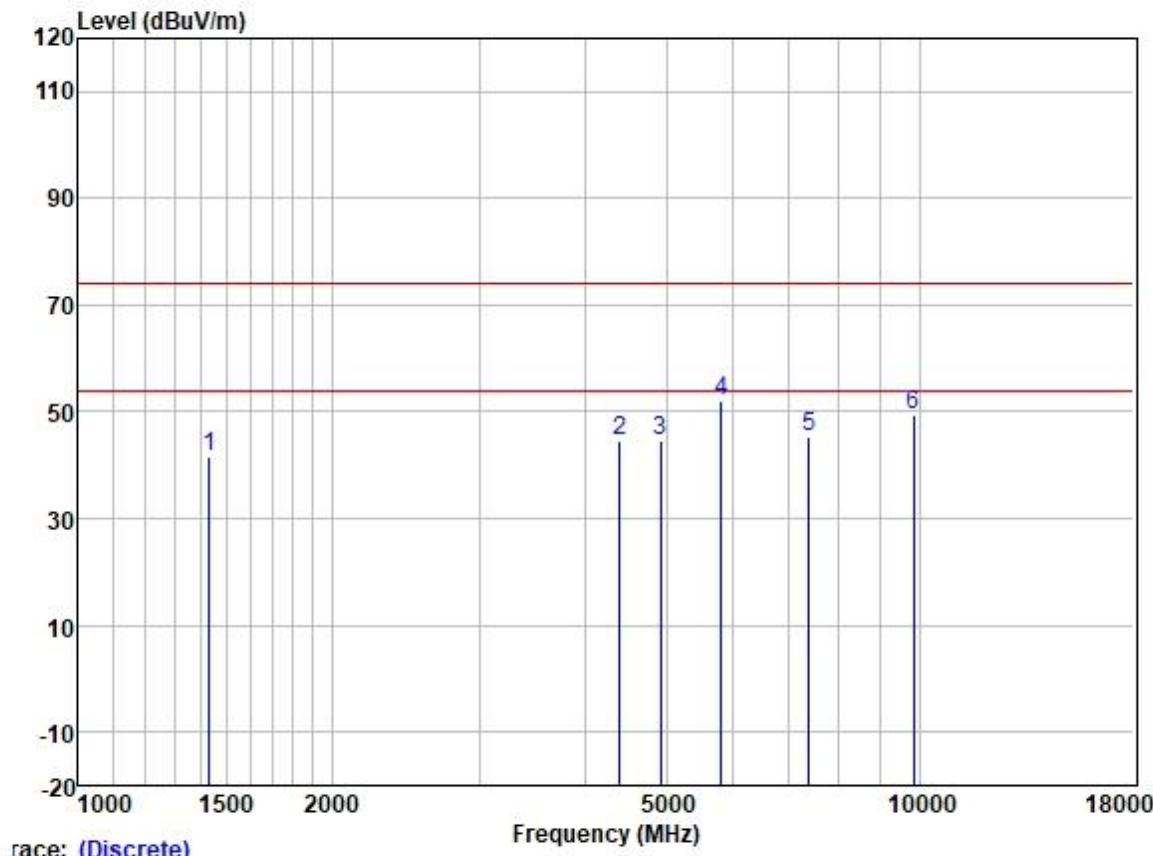
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1431.047	51.07	25.43	2.80	37.88	41.42	74.00	-32.58	HORIZONTAL	peak	
2	4405.090	45.00	30.68	5.37	36.63	44.42	74.00	-29.58	HORIZONTAL	peak	
3	4924.000	43.98	31.62	5.51	36.45	44.66	74.00	-29.34	HORIZONTAL	peak	
4	5813.812	50.34	32.21	5.71	36.13	52.13	74.00	-21.87	HORIZONTAL	peak	
5	7386.000	39.78	36.17	6.30	37.04	45.21	74.00	-28.79	HORIZONTAL	peak	
6	9848.000	40.77	38.58	7.06	36.82	49.59	74.00	-24.41	HORIZONTAL	peak	

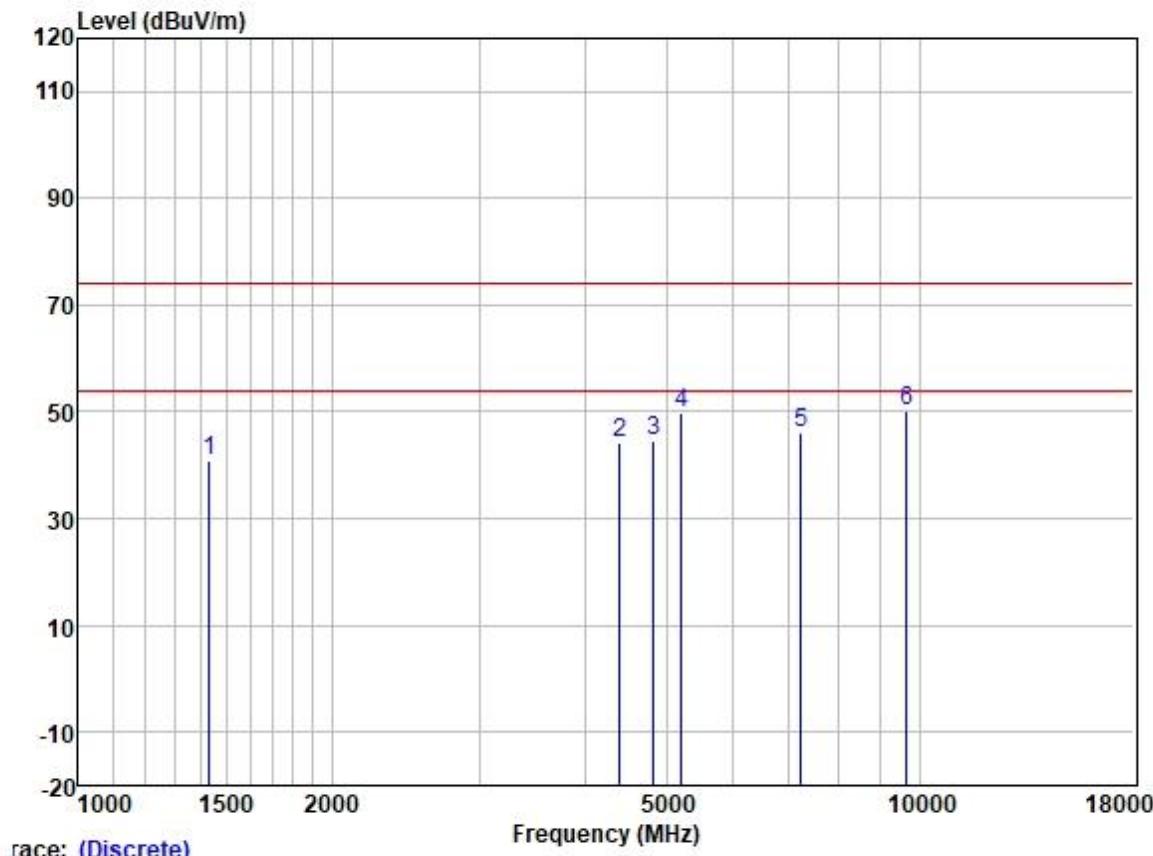
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	1431.047	50.60	25.43	2.80	37.88	40.95	74.00	-33.05	VERTICAL	peak
2	4405.090	44.80	30.68	5.37	36.63	44.22	74.00	-29.78	VERTICAL	peak
3	4824.000	44.17	31.45	5.46	36.50	44.58	74.00	-29.42	VERTICAL	peak
4	5209.075	49.00	31.74	5.33	36.29	49.78	74.00	-24.22	VERTICAL	peak
5	7236.000	41.05	35.70	6.35	36.94	46.16	74.00	-27.84	VERTICAL	peak
6	9648.000	40.83	38.40	7.89	36.85	50.27	74.00	-23.73	VERTICAL	peak

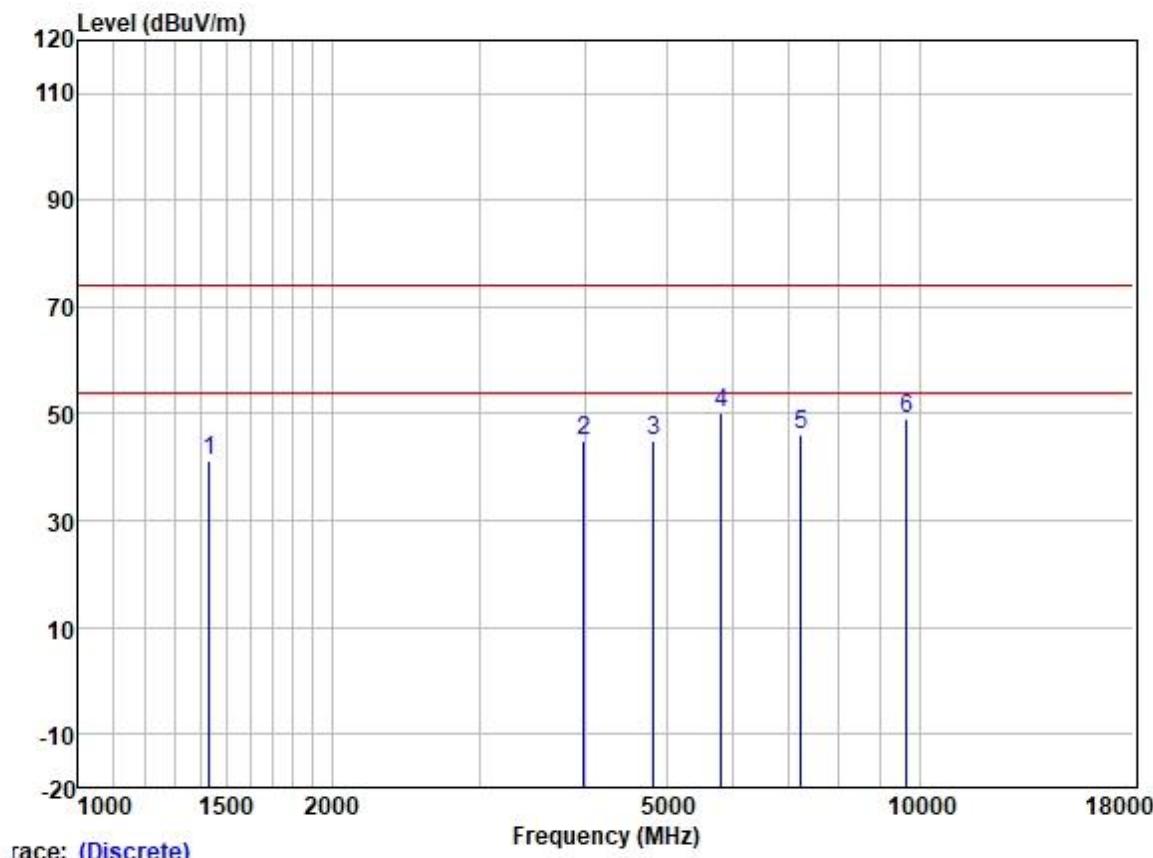
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB									
1 1431.047	51.06	25.43	2.80	37.88	41.41	74.00	-32.59	HORIZONTAL	peak				
2 3992.781	46.52	29.79	5.25	36.70	44.86	74.00	-29.14	HORIZONTAL	peak				
3 4824.000	44.51	31.45	5.46	36.50	44.92	74.00	-29.08	HORIZONTAL	peak				
4 5813.812	48.43	32.21	5.71	36.13	50.22	74.00	-23.78	HORIZONTAL	peak				
5 7236.000	41.12	35.70	6.35	36.94	46.23	74.00	-27.77	HORIZONTAL	peak				
6 9648.000	39.73	38.40	7.89	36.85	49.17	74.00	-24.83	HORIZONTAL	peak				

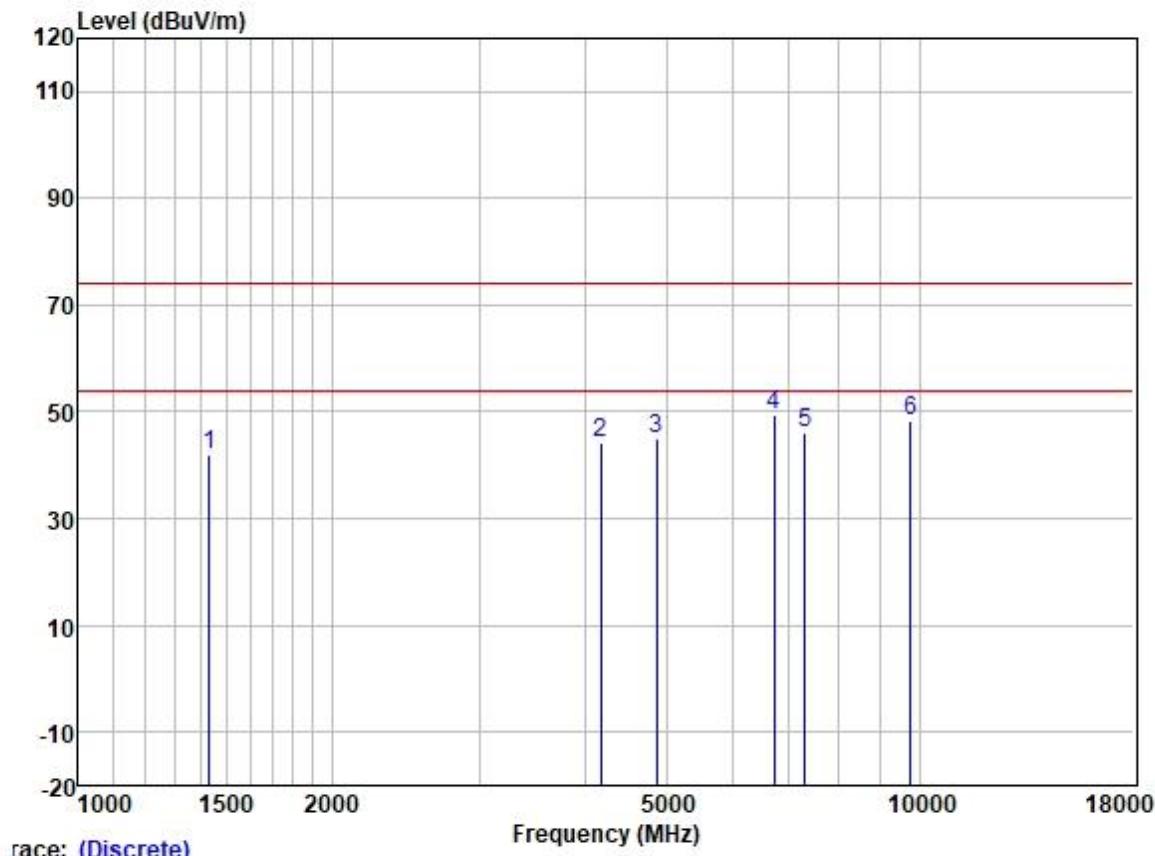
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1	1431.047	51.48	25.43	2.80	37.88	41.83	74.00	-32.17	VERTICAL	peak	
2	4181.768	45.60	30.12	5.22	36.67	44.27	74.00	-29.73	VERTICAL	peak	
3	4874.000	44.57	31.54	5.49	36.48	45.12	74.00	-28.88	VERTICAL	peak	
4	6717.762	45.13	34.44	6.29	36.42	49.44	74.00	-24.56	VERTICAL	peak	
5	7311.000	40.77	35.93	6.32	36.99	46.03	74.00	-27.97	VERTICAL	peak	
6	9748.000	39.14	38.50	7.43	36.83	48.24	74.00	-25.76	VERTICAL	peak	

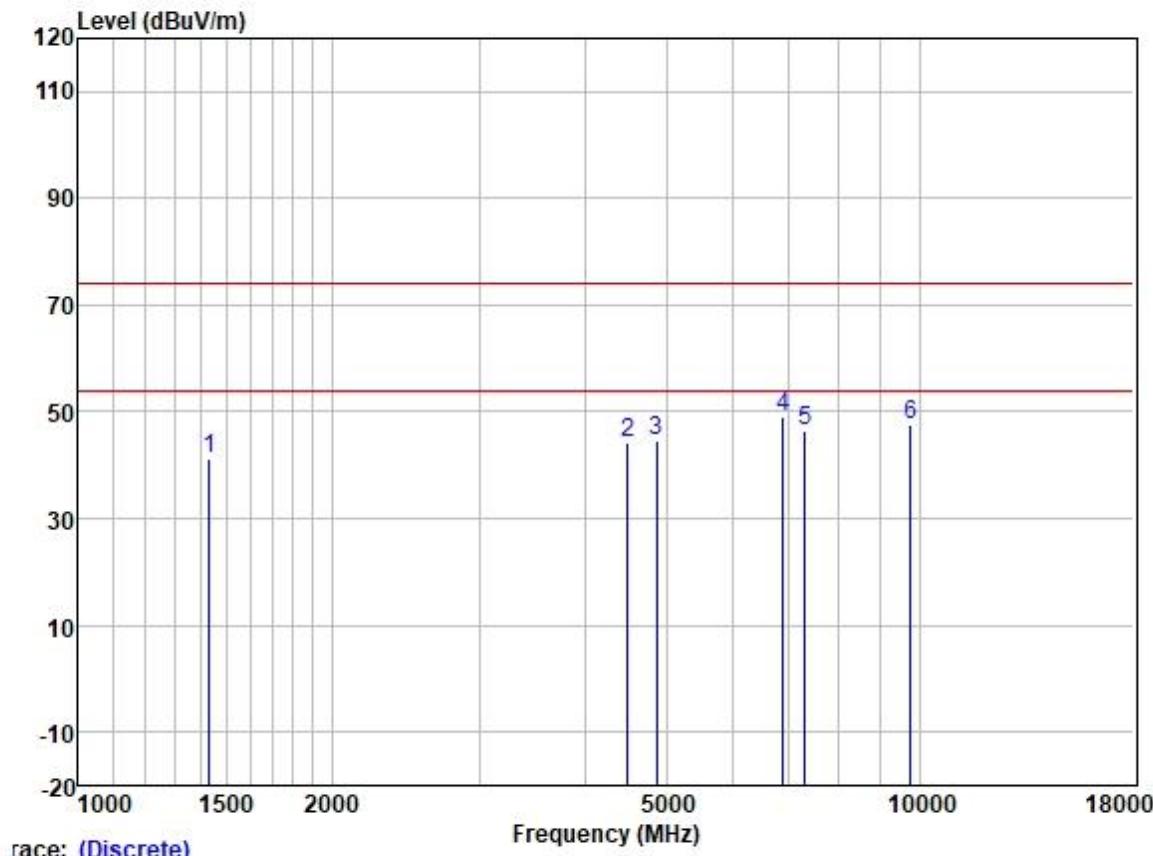
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 1431.047	50.81	25.43	2.80	37.88	41.16	74.00	-32.84	HORIZONTAL	peak	
2 4495.125	44.64	30.80	5.33	36.60	44.17	74.00	-29.83	HORIZONTAL	peak	
3 4874.000	44.14	31.54	5.49	36.48	44.69	74.00	-29.31	HORIZONTAL	peak	
4 6874.906	44.46	34.82	6.37	36.55	49.10	74.00	-24.90	HORIZONTAL	peak	
5 7311.000	41.02	35.93	6.32	36.99	46.28	74.00	-27.72	HORIZONTAL	peak	
6 9748.000	38.44	38.50	7.43	36.83	47.54	74.00	-26.46	HORIZONTAL	peak	

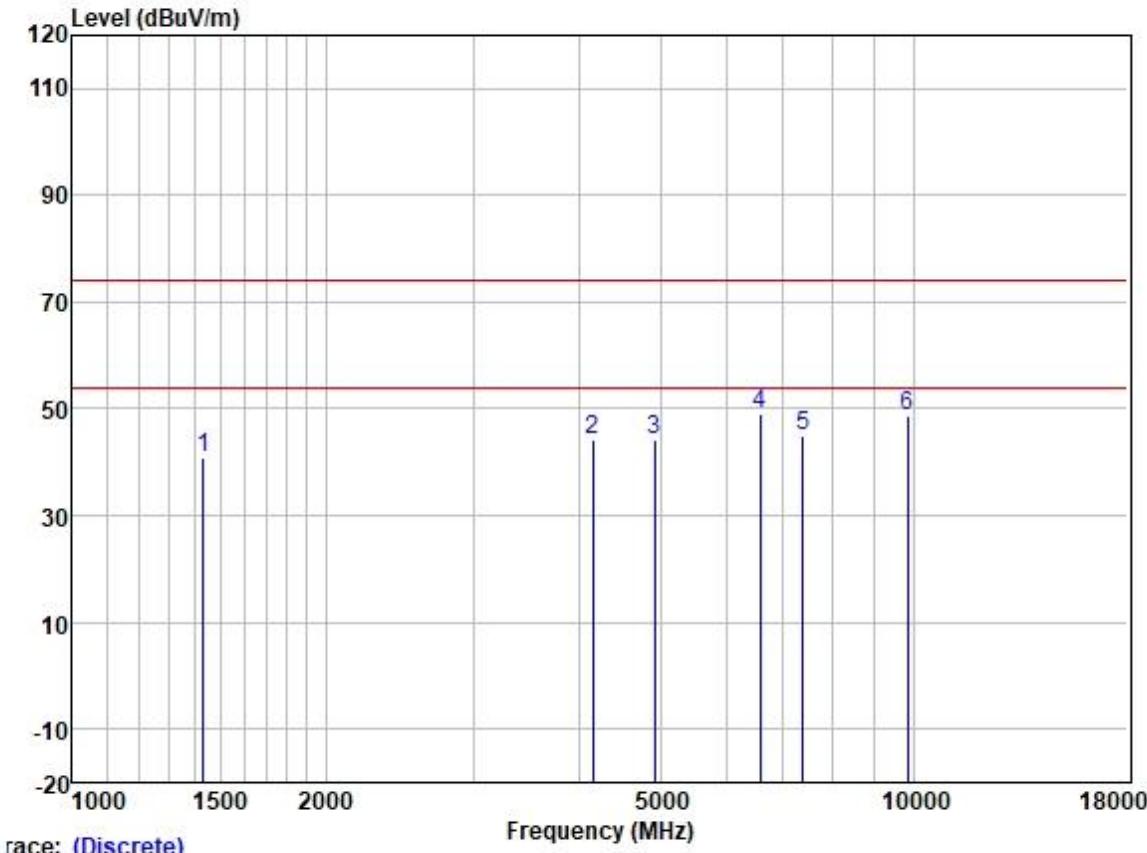
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1431.047	50.51	25.43	2.80	37.88	40.86	74.00	-33.14	VERTICAL	peak	
2	4157.664	45.80	30.06	5.22	36.68	44.40	74.00	-29.60	VERTICAL	peak	
3	4924.000	43.67	31.62	5.51	36.45	44.35	74.00	-29.65	VERTICAL	peak	
4	6564.209	45.26	34.09	6.22	36.33	49.24	74.00	-24.76	VERTICAL	peak	
5	7386.000	39.65	36.17	6.30	37.04	45.08	74.00	-28.92	VERTICAL	peak	
6	9848.000	40.03	38.58	7.06	36.82	48.85	74.00	-25.15	VERTICAL	peak	

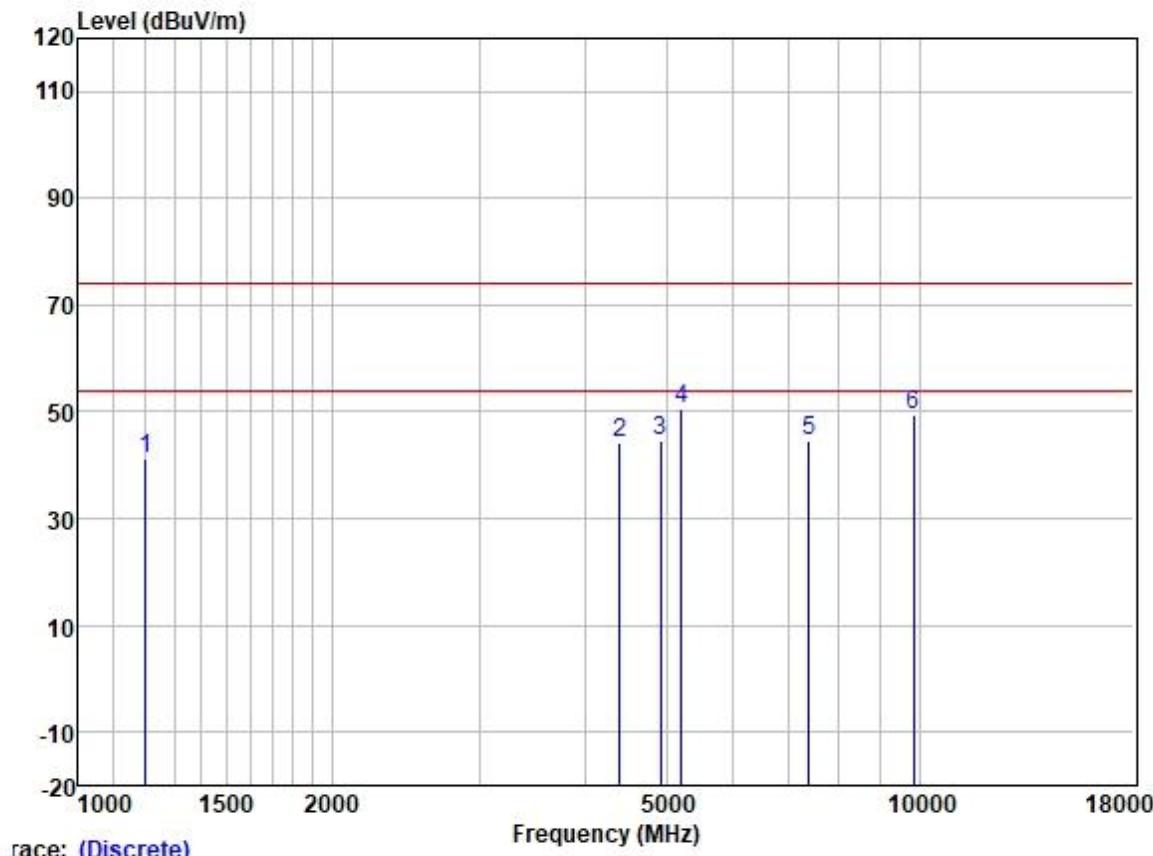
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1203.199	52.23	24.70	2.58	38.14	41.37	74.00	-32.63	HORIZONTAL	peak	
2	4405.090	44.94	30.68	5.37	36.63	44.36	74.00	-29.64	HORIZONTAL	peak	
3	4924.000	43.73	31.62	5.51	36.45	44.41	74.00	-29.59	HORIZONTAL	peak	
4	5209.075	49.82	31.74	5.33	36.29	50.60	74.00	-23.40	HORIZONTAL	peak	
5	7386.000	39.23	36.17	6.30	37.04	44.66	74.00	-29.34	HORIZONTAL	peak	
6	9848.000	40.71	38.58	7.06	36.82	49.53	74.00	-24.47	HORIZONTAL	peak	

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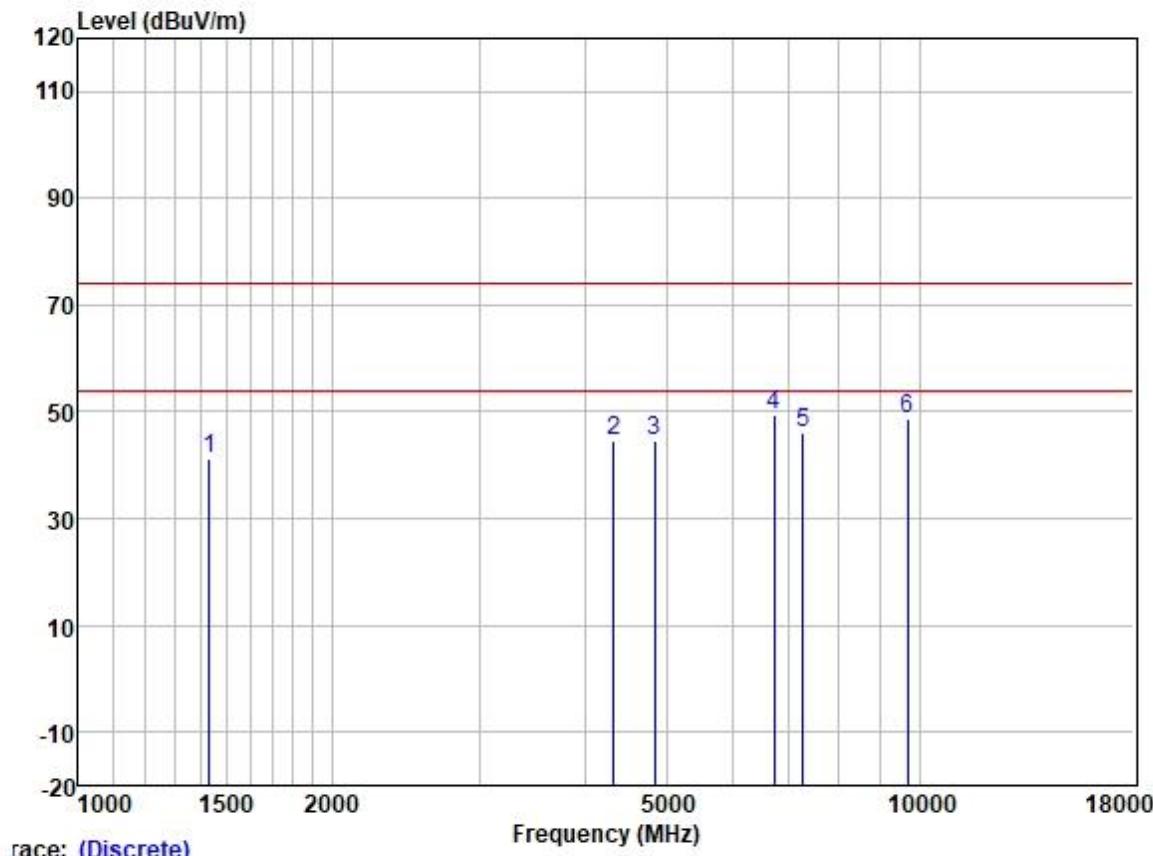
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 1431.047	50.89	25.43	2.80	37.88	41.24	74.00	-32.76	VERTICAL	peak	
2 4329.354	45.36	30.54	5.31	36.64	44.57	74.00	-29.43	VERTICAL	peak	
3 4844.000	44.02	31.50	5.47	36.49	44.50	74.00	-29.50	VERTICAL	peak	
4 6717.762	45.18	34.44	6.29	36.42	49.49	74.00	-24.51	VERTICAL	peak	
5 7266.000	40.90	35.78	6.34	36.98	46.04	74.00	-27.96	VERTICAL	peak	
6 9688.000	39.28	38.44	7.68	36.84	48.56	74.00	-25.44	VERTICAL	peak	

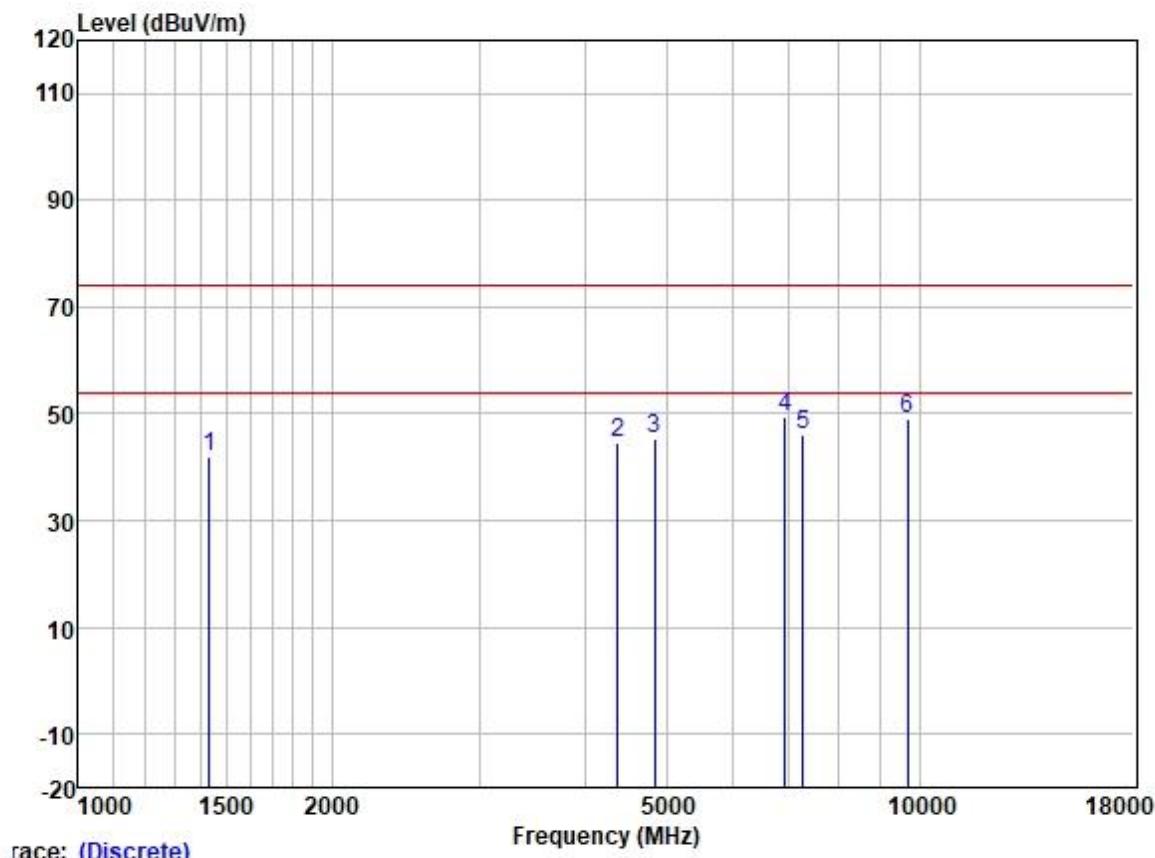
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1431.047	51.72	25.43	2.80	37.88	42.07	74.00	-31.93	HORIZONTAL	peak
2	4379.699	45.29	30.64	5.35	36.63	44.65	74.00	-29.35	HORIZONTAL	peak
3	4844.000	44.69	31.50	5.47	36.49	45.17	74.00	-28.83	HORIZONTAL	peak
4	6914.763	44.69	34.89	6.39	36.60	49.37	74.00	-24.63	HORIZONTAL	peak
5	7266.000	40.80	35.78	6.34	36.98	45.94	74.00	-28.06	HORIZONTAL	peak
6	9688.000	39.87	38.44	7.68	36.84	49.15	74.00	-24.85	HORIZONTAL	peak

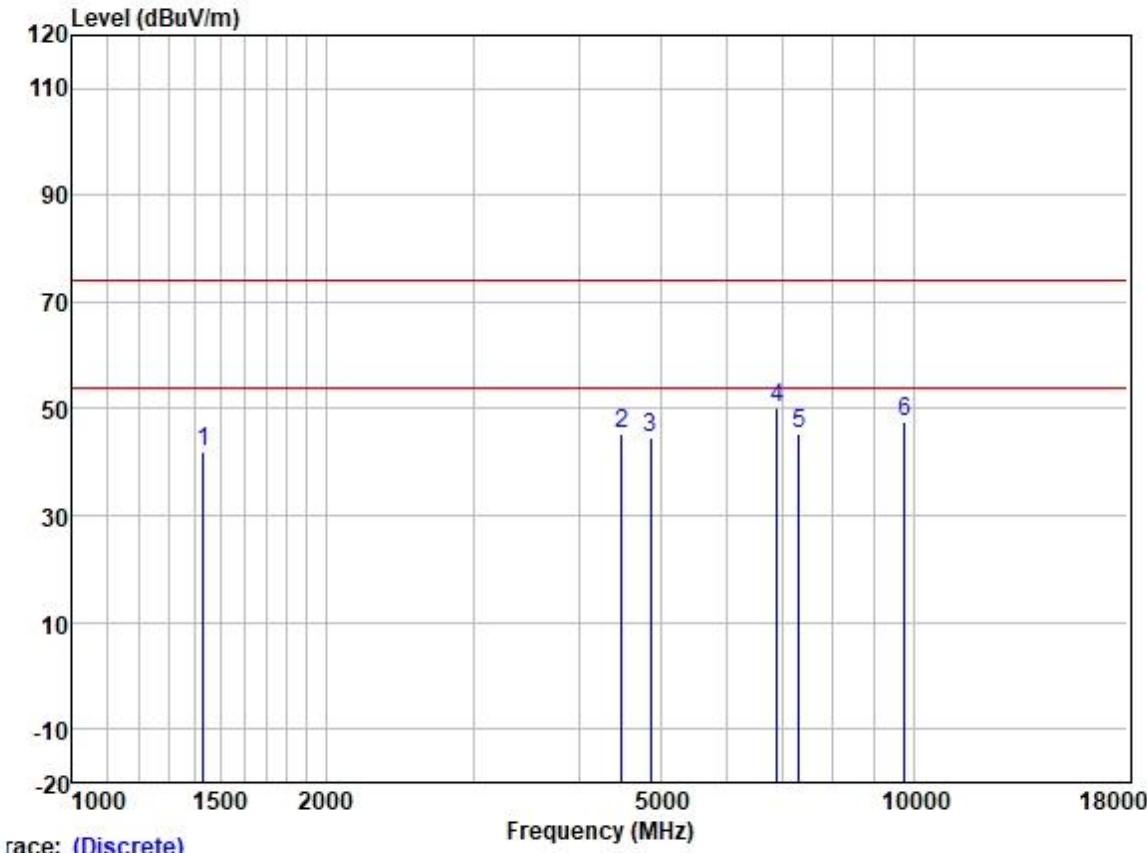
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	1431.047	51.75	25.43	2.80	37.88	42.10	74.00	-31.90	VERTICAL	peak
2	4495.125	45.83	30.80	5.33	36.60	45.36	74.00	-28.64	VERTICAL	peak
3	4874.000	44.14	31.54	5.49	36.48	44.69	74.00	-29.31	VERTICAL	peak
4	6874.906	45.39	34.82	6.37	36.55	50.03	74.00	-23.97	VERTICAL	peak
5	7311.000	40.24	35.93	6.32	36.99	45.50	74.00	-28.50	VERTICAL	peak
6	9748.000	38.34	38.50	7.43	36.83	47.44	74.00	-26.56	VERTICAL	peak

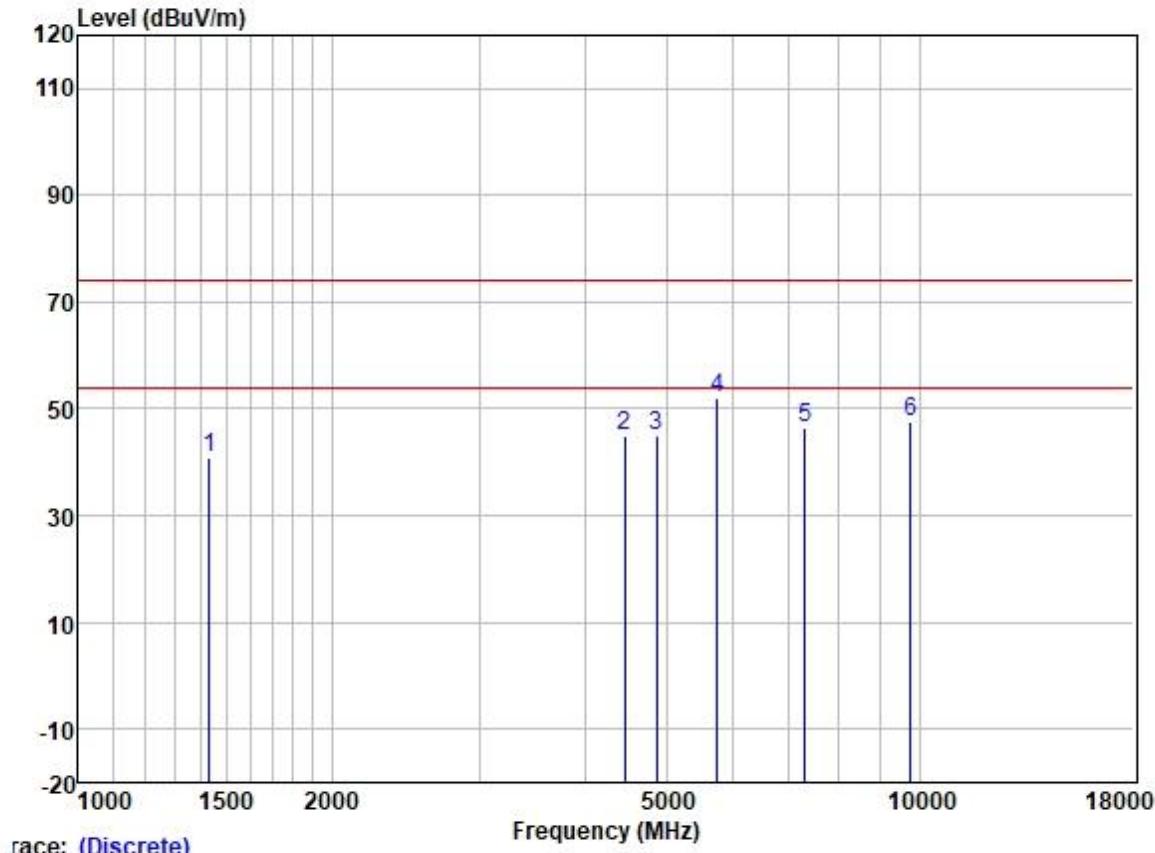
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1431.047	50.68	25.43	2.80	37.88	41.03	74.00	-32.97	HORIZONTAL	peak	
2	4456.315	45.34	30.75	5.35	36.62	44.82	74.00	-29.18	HORIZONTAL	peak	
3	4874.000	44.58	31.54	5.49	36.48	45.13	74.00	-28.87	HORIZONTAL	peak	
4	5746.982	50.36	32.10	5.70	36.14	52.02	74.00	-21.98	HORIZONTAL	peak	
5	7311.000	41.14	35.93	6.32	36.99	46.40	74.00	-27.60	HORIZONTAL	peak	
6	9748.000	38.65	38.50	7.43	36.83	47.75	74.00	-26.25	HORIZONTAL	peak	

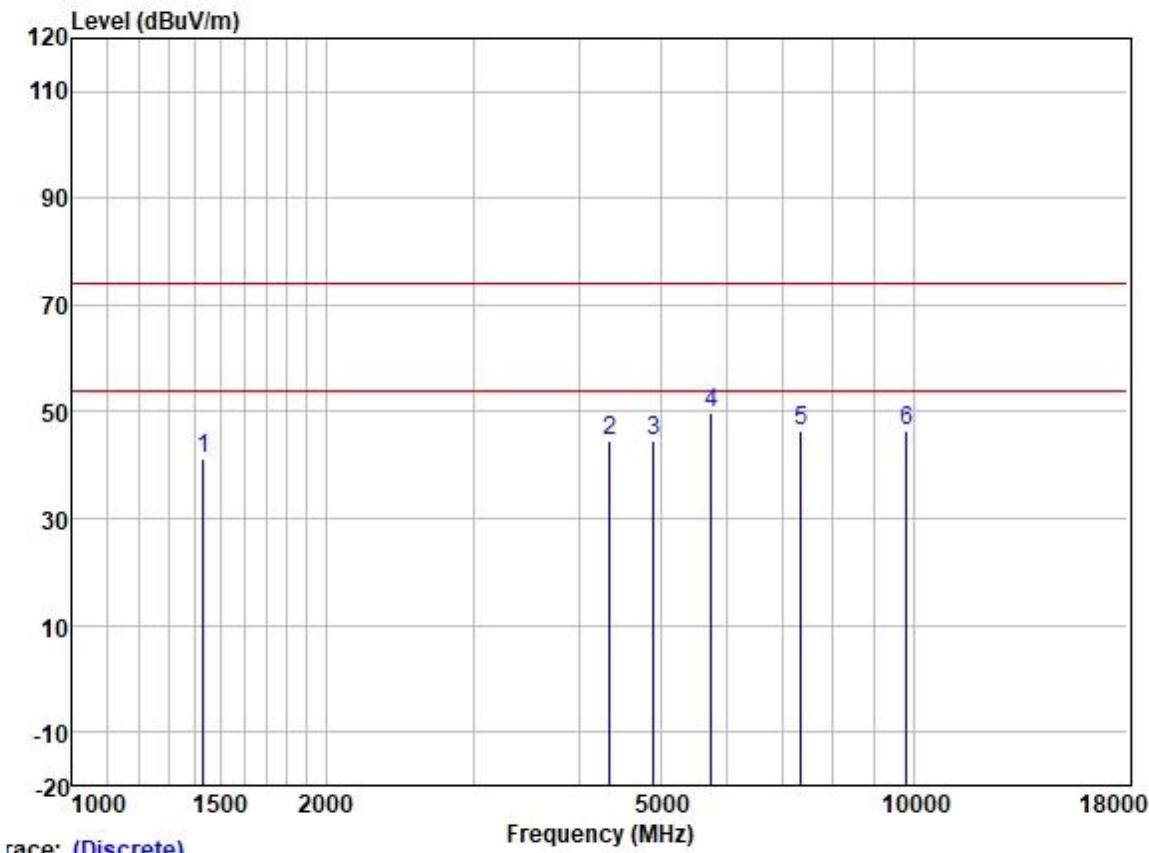
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1431.047	50.94	25.43	2.80	37.88	41.29	74.00	-32.71 VERTICAL peak
2	4354.454	45.19	30.59	5.34	36.64	44.48	74.00	-29.52 VERTICAL peak
3	4904.000	43.84	31.58	5.50	36.46	44.46	74.00	-29.54 VERTICAL peak
4	5746.982	48.11	32.10	5.70	36.14	49.77	74.00	-24.23 VERTICAL peak
5	7356.000	41.08	36.06	6.31	37.03	46.42	74.00	-27.58 VERTICAL peak
6	9808.000	37.73	38.56	7.17	36.83	46.63	74.00	-27.37 VERTICAL peak

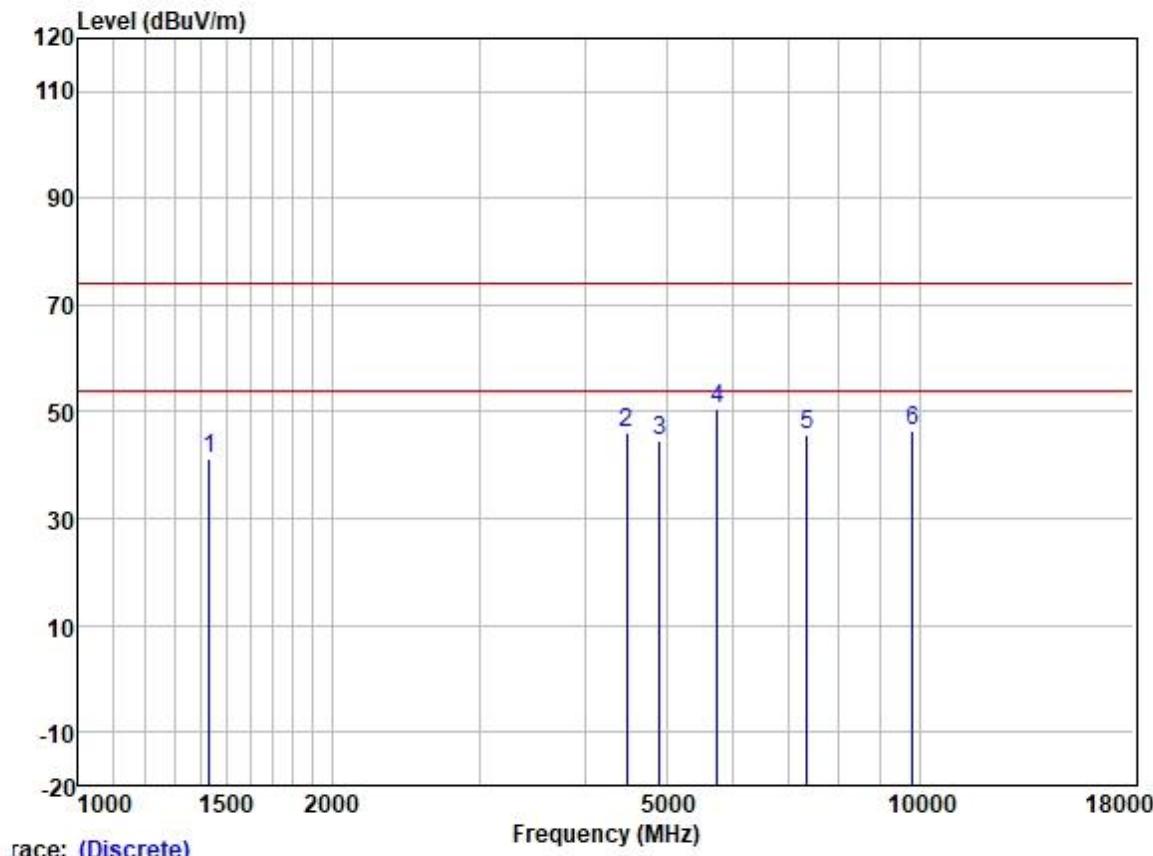
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Mode: (Discrete)

Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	Level	Factor						
1	1431.047	50.85	25.43	2.80	37.88	41.20	74.00	-32.80	HORIZONTAL	peak	
2	4482.150	46.53	30.78	5.34	36.61	46.04	74.00	-27.96	HORIZONTAL	peak	
3	4904.000	43.97	31.58	5.50	36.46	44.59	74.00	-29.41	HORIZONTAL	peak	
4	5746.982	48.91	32.10	5.70	36.14	50.57	74.00	-23.43	HORIZONTAL	peak	
5	7356.000	40.18	36.06	6.31	37.03	45.52	74.00	-28.48	HORIZONTAL	peak	
6	9808.000	37.71	38.56	7.17	36.83	46.61	74.00	-27.39	HORIZONTAL	peak	

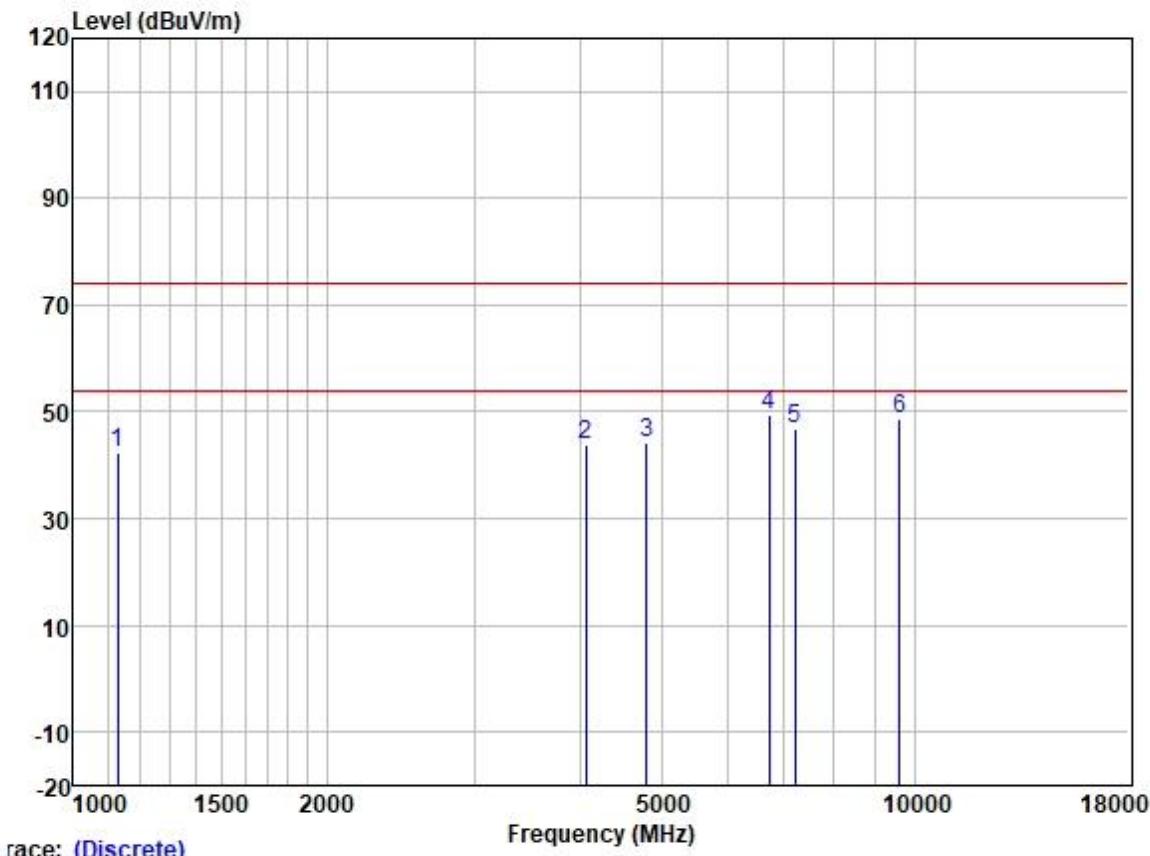
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB									
1 1129.072	48.87	24.43	7.35	38.43	42.22	74.00	-31.78	VERTICAL				peak	
2 4062.629	45.62	29.88	5.00	36.80	43.70	74.00	-30.30	VERTICAL				peak	
3 4804.000	44.29	31.42	5.20	36.83	44.08	74.00	-29.92	VERTICAL				peak	
4 6717.762	45.57	34.44	6.63	37.09	49.55	74.00	-24.45	VERTICAL				peak	
5 7206.000	41.99	35.54	6.68	37.38	46.83	74.00	-27.17	VERTICAL				peak	
6 9608.000	40.37	38.37	7.50	37.42	48.82	74.00	-25.18	VERTICAL				peak	

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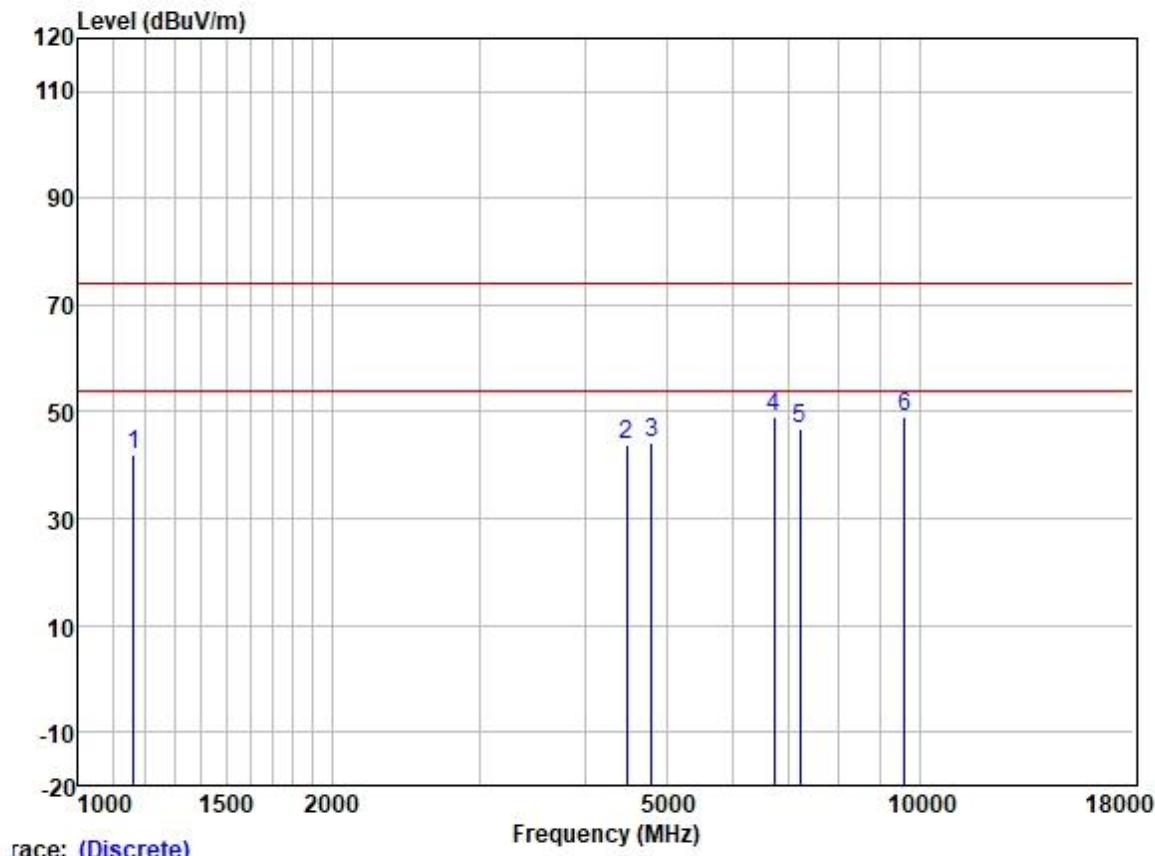
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Mode: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1162.182	48.99	24.53	7.03	38.42	42.13	74.00	-31.87 HORIZONTAL peak
2	4482.150	44.93	30.78	4.85	36.81	43.75	74.00	-30.25 HORIZONTAL peak
3	4804.000	44.44	31.42	5.20	36.83	44.23	74.00	-29.77 HORIZONTAL peak
4	6717.762	45.08	34.44	6.63	37.09	49.06	74.00	-24.94 HORIZONTAL peak
5	7206.000	41.92	35.54	6.68	37.38	46.76	74.00	-27.24 HORIZONTAL peak
6	9608.000	40.47	38.37	7.50	37.42	48.92	74.00	-25.08 HORIZONTAL peak

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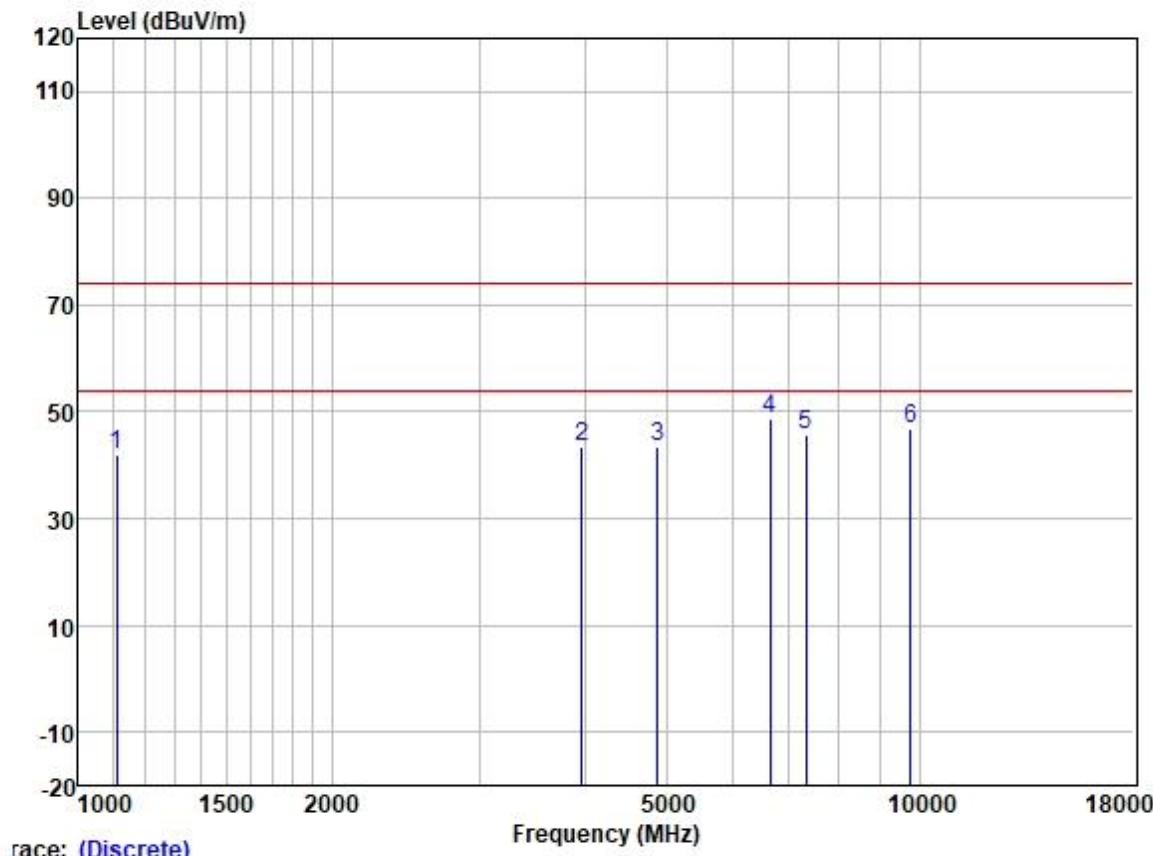
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1109.660	48.55	24.39	7.51	38.45	42.00	74.00	-32.00	VERTICAL	peak	
2	3969.767	45.46	29.77	4.98	36.81	43.40	74.00	-30.60	VERTICAL	peak	
3	4882.000	43.46	31.56	5.28	36.84	43.46	74.00	-30.54	VERTICAL	peak	
4	6640.542	45.07	34.24	6.59	37.06	48.84	74.00	-25.16	VERTICAL	peak	
5	7323.000	40.36	36.00	6.61	37.43	45.54	74.00	-28.46	VERTICAL	peak	
6	9764.000	38.05	38.50	7.62	37.41	46.76	74.00	-27.24	VERTICAL	peak	

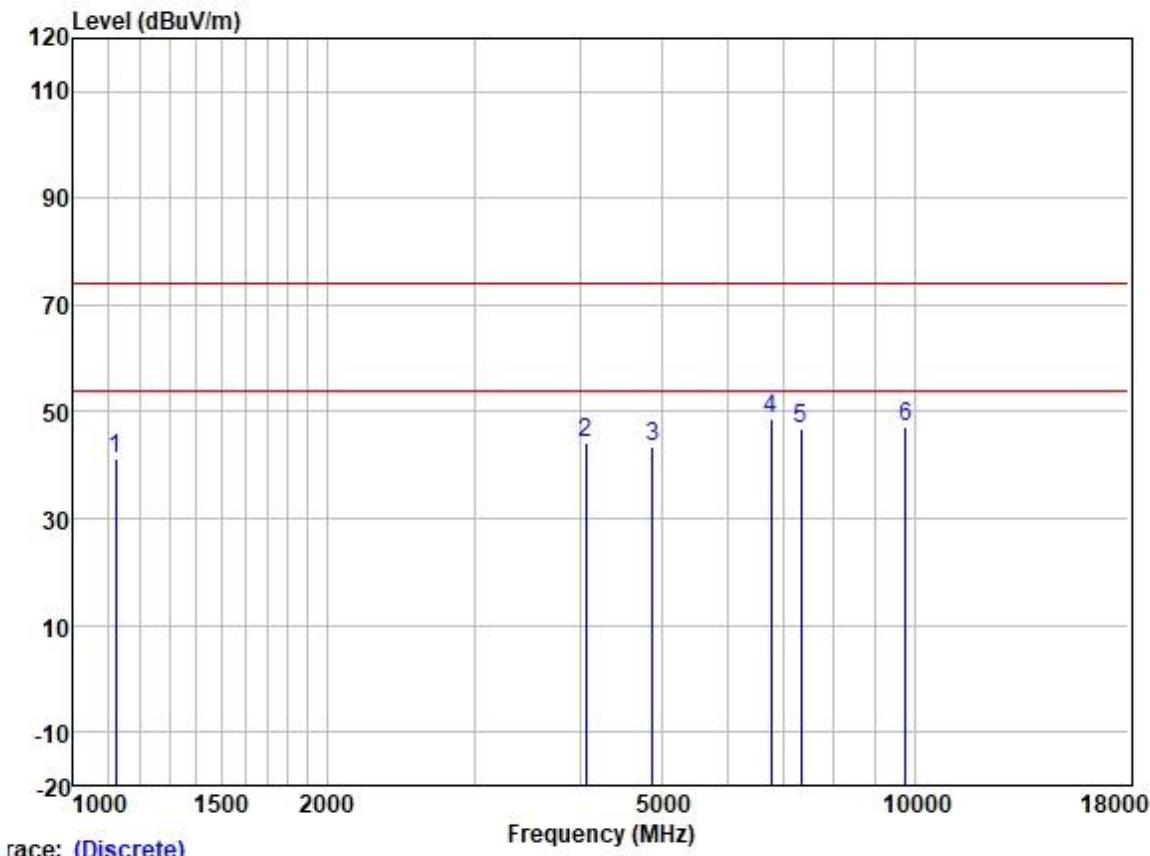
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1122.563	47.96	24.42	7.41	38.43	41.36	74.00	-32.64 HORIZONTAL peak
2	4062.629	46.27	29.88	5.00	36.80	44.35	74.00	-29.65 HORIZONTAL peak
3	4882.000	43.49	31.56	5.28	36.84	43.49	74.00	-30.51 HORIZONTAL peak
4	6756.708	44.64	34.56	6.66	37.10	48.76	74.00	-25.24 HORIZONTAL peak
5	7323.000	41.51	36.00	6.61	37.43	46.69	74.00	-27.31 HORIZONTAL peak
6	9764.000	38.36	38.50	7.62	37.41	47.07	74.00	-26.93 HORIZONTAL peak

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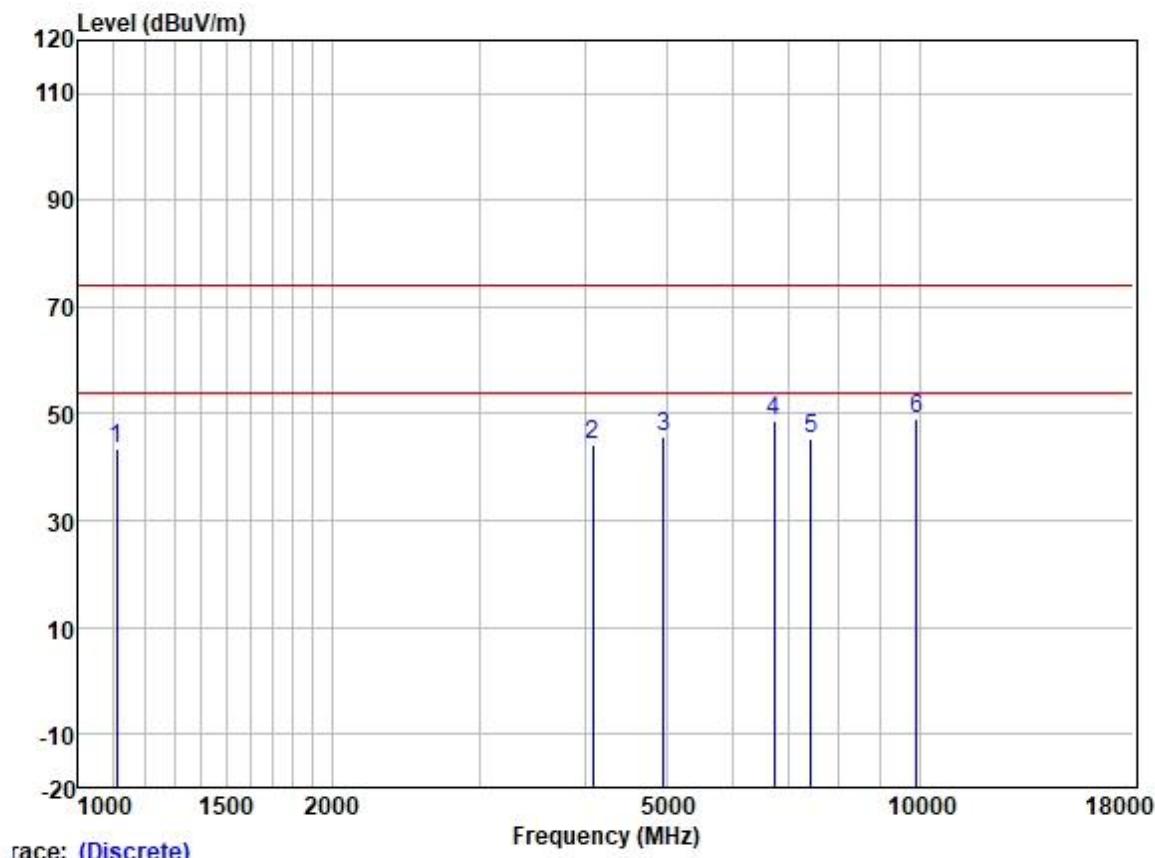
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB									
1 1109.660	49.86	24.39	7.51	38.45	43.31	74.00	-30.69	VERTICAL				peak	
2 4086.182	46.14	29.92	4.99	36.80	44.25	74.00	-29.75	VERTICAL				peak	
3 4960.000	45.69	31.65	5.33	36.84	45.83	74.00	-28.17	VERTICAL				peak	
4 6717.762	44.73	34.44	6.63	37.09	48.71	74.00	-25.29	VERTICAL				peak	
5 7440.000	40.06	36.27	6.58	37.47	45.44	74.00	-28.56	VERTICAL				peak	
6 9920.000	40.16	38.65	7.78	37.40	49.19	74.00	-24.81	VERTICAL				peak	

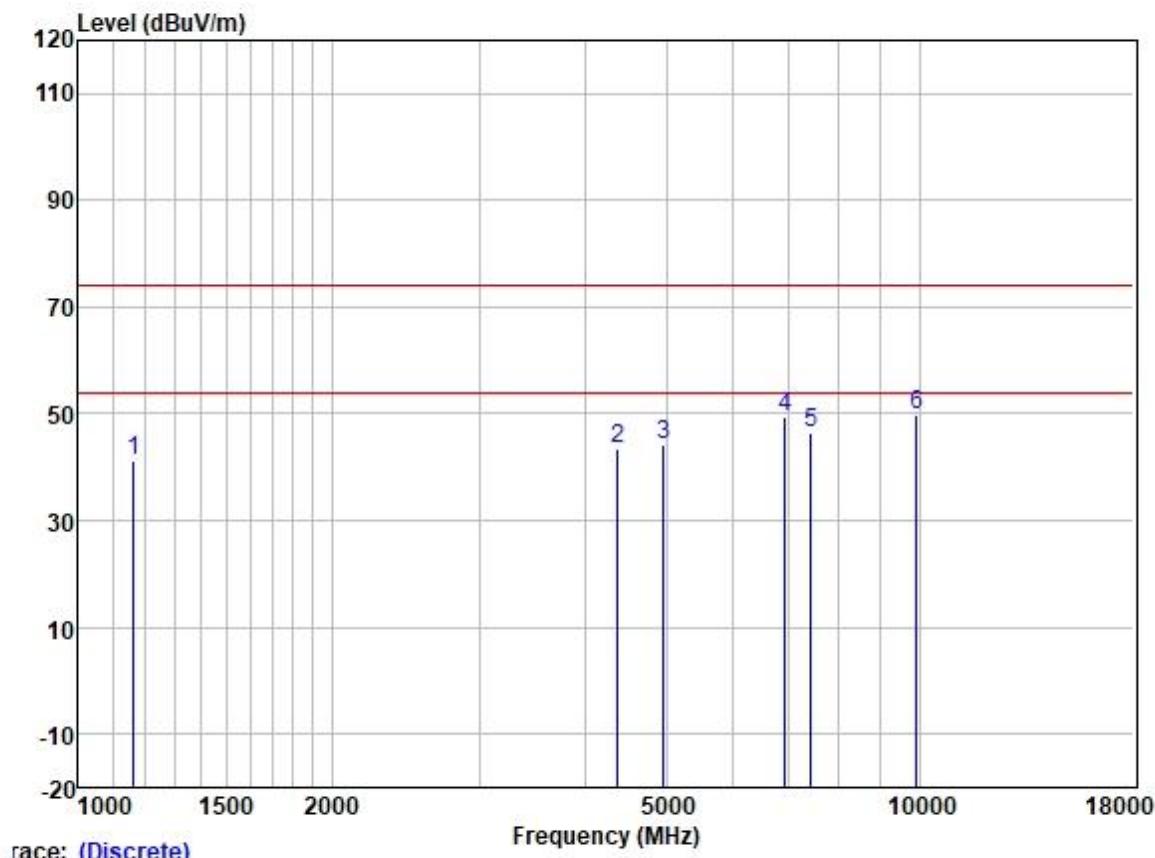
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



ReadAntenna	Cable	Preamp	Limit	Over	Race: (Discrete)								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB						
1 1162.182	48.01	24.53	7.03	38.42	41.15	74.00	-32.85	HORIZONTAL	peak				
2 4379.699	44.91	30.64	4.88	36.81	43.62	74.00	-30.38	HORIZONTAL	peak				
3 4960.000	44.21	31.65	5.33	36.84	44.35	74.00	-29.65	HORIZONTAL	peak				
4 6914.763	45.05	34.89	6.73	37.19	49.48	74.00	-24.52	HORIZONTAL	peak				
5 7440.000	40.94	36.27	6.58	37.47	46.32	74.00	-27.68	HORIZONTAL	peak				
6 9920.000	40.84	38.65	7.78	37.40	49.87	74.00	-24.13	HORIZONTAL	peak				

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220600085402



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2206000854HS



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

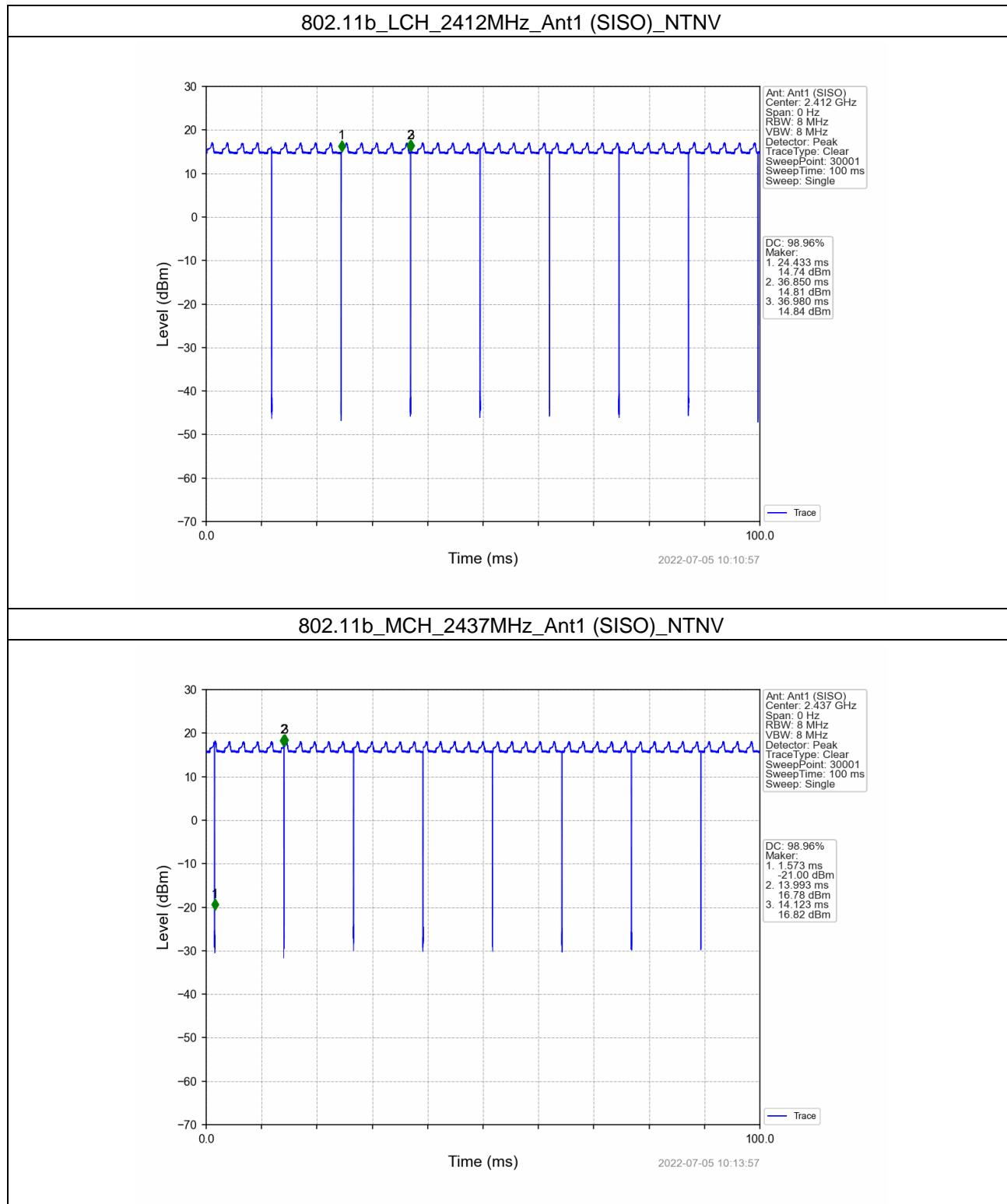
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.417	12.547	98.96	0.05	0.03
		2437	12.420	12.550	98.96	0.05	0.03
		2462	12.420	12.550	98.96	0.05	0.03
802.11g	SISO	2412	2.065	2.193	94.16	0.26	0.04
		2437	2.064	2.194	94.07	0.27	0.03
		2462	2.064	2.194	94.07	0.27	0.00
802.11n (HT20)	SISO	2412	1.921	2.050	93.71	0.28	0.00
		2437	1.920	2.050	93.66	0.28	0.03
		2462	1.920	2.049	93.70	0.28	0.00
802.11n (HT40)	SISO	2422	0.945	1.074	87.99	0.56	0.04
		2437	0.944	1.074	87.90	0.56	0.06
		2452	0.945	1.074	87.99	0.56	0.03
GFSK	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2442	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

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1.1.2 Test Graph

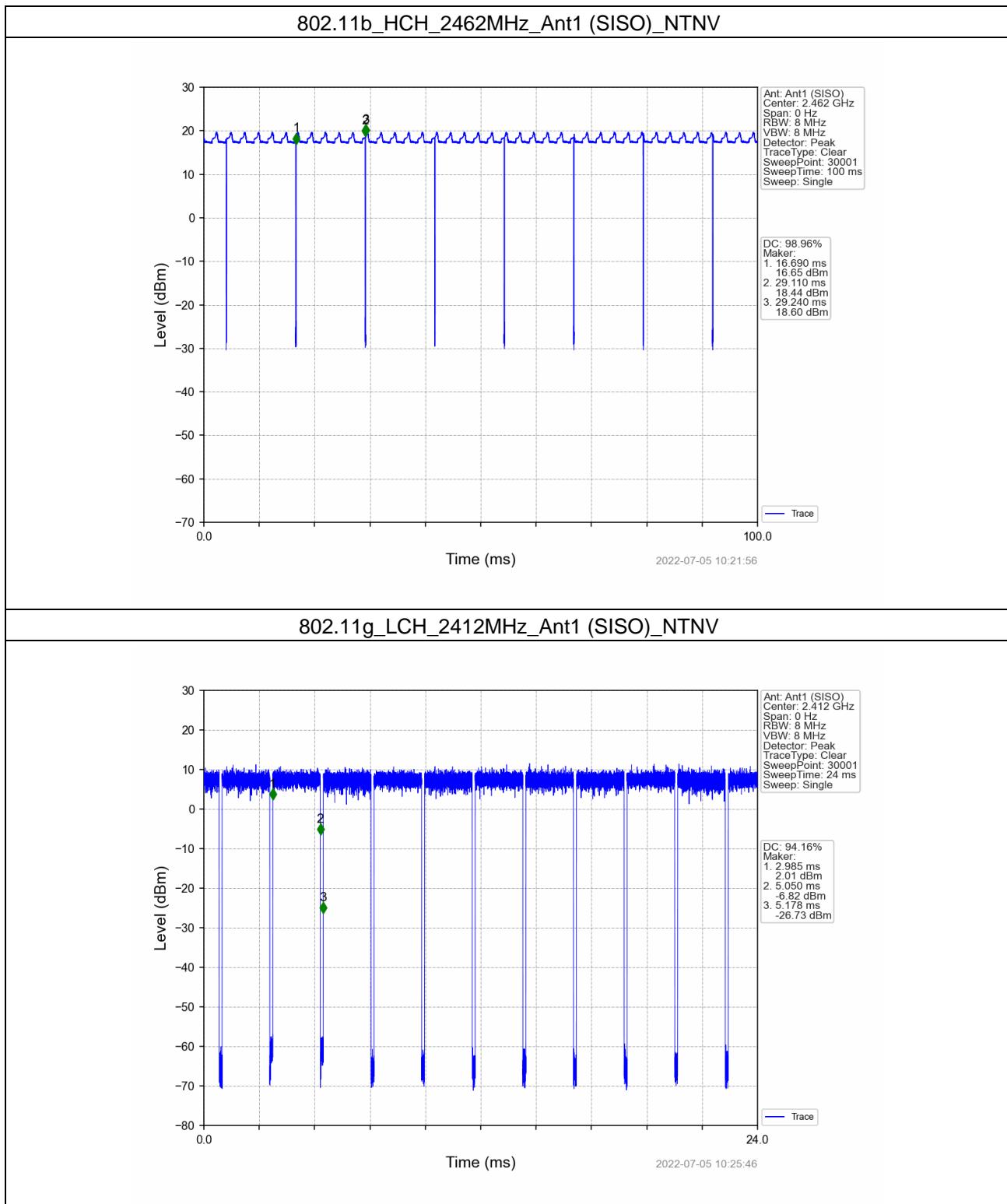
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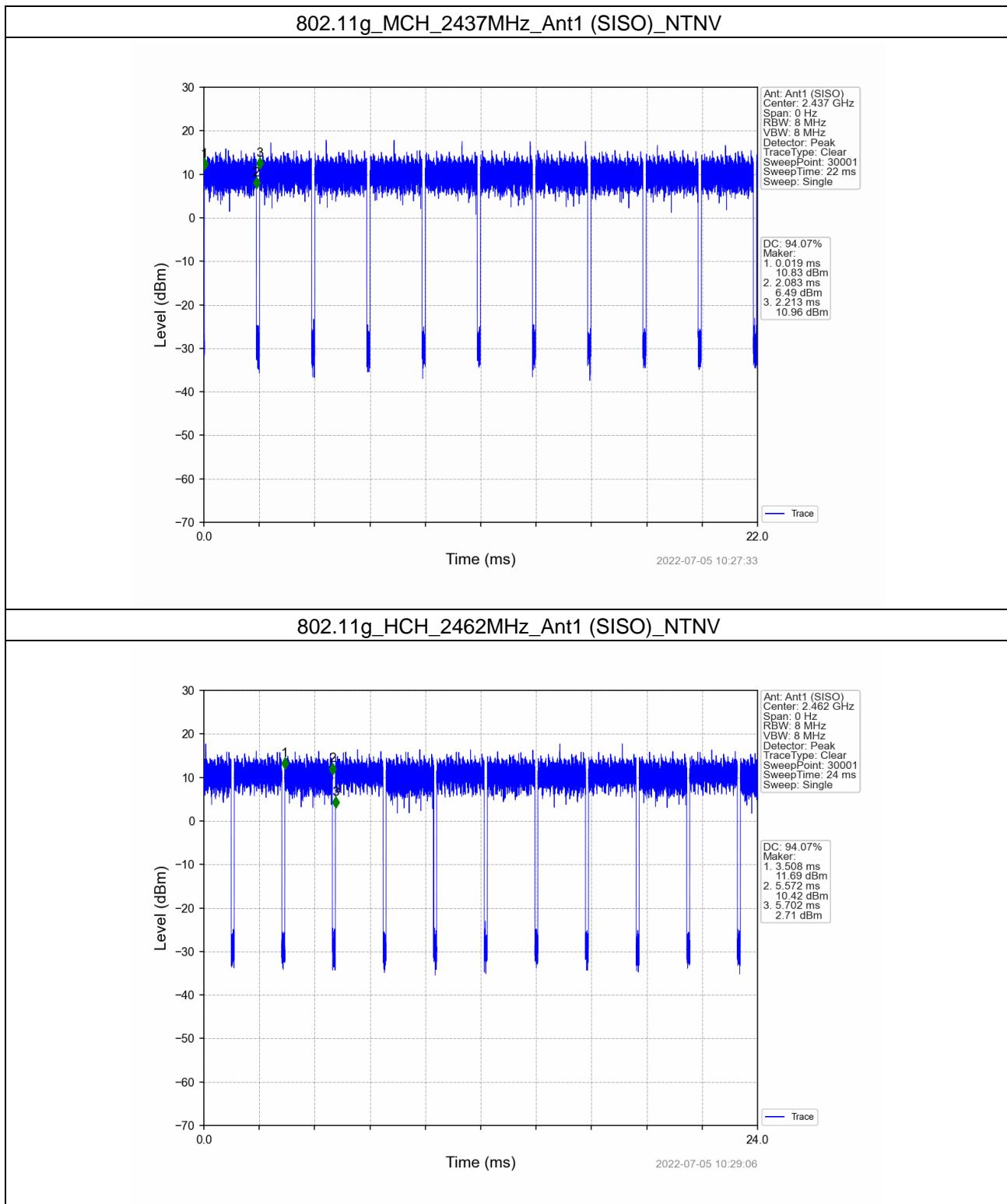


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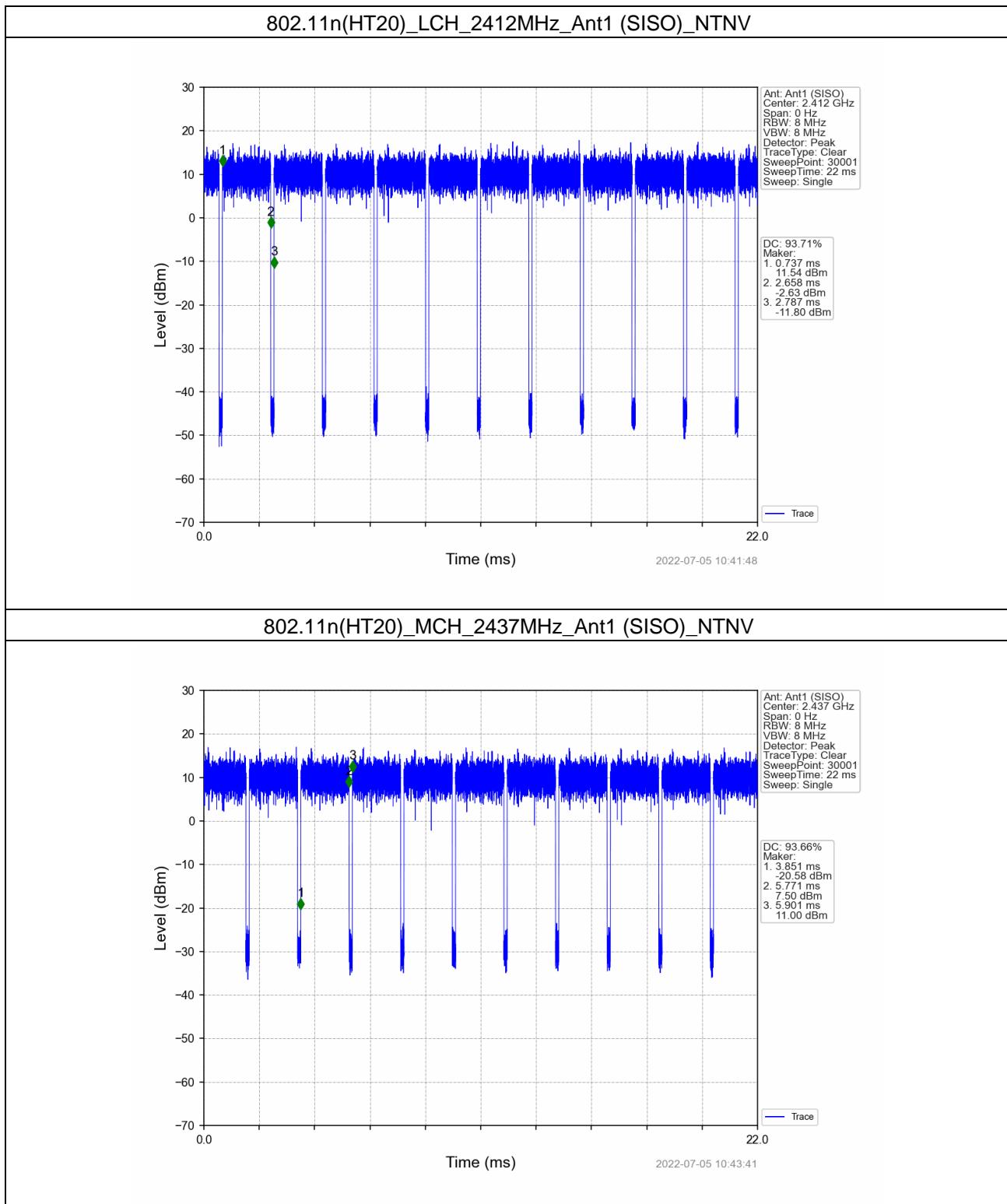


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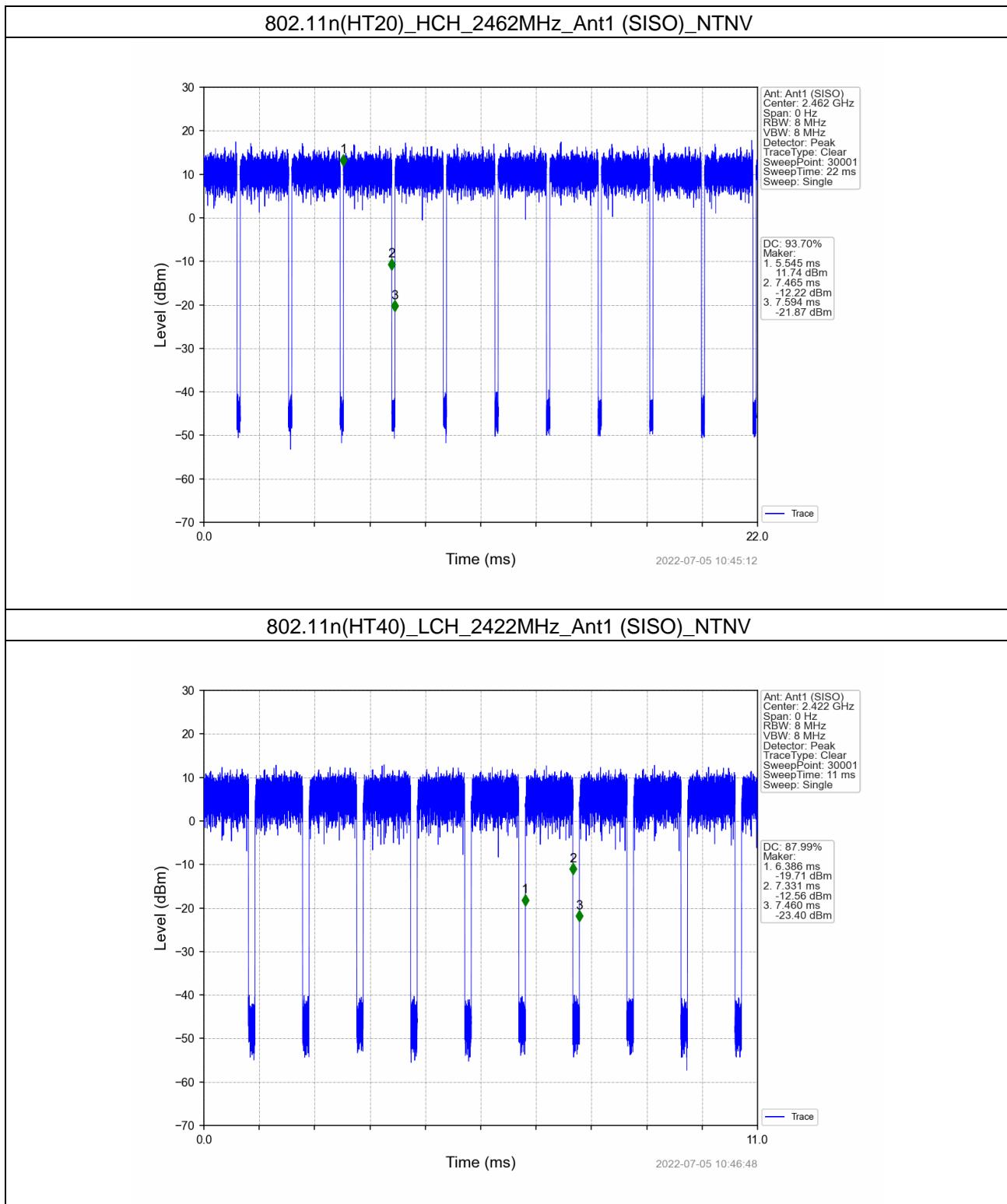
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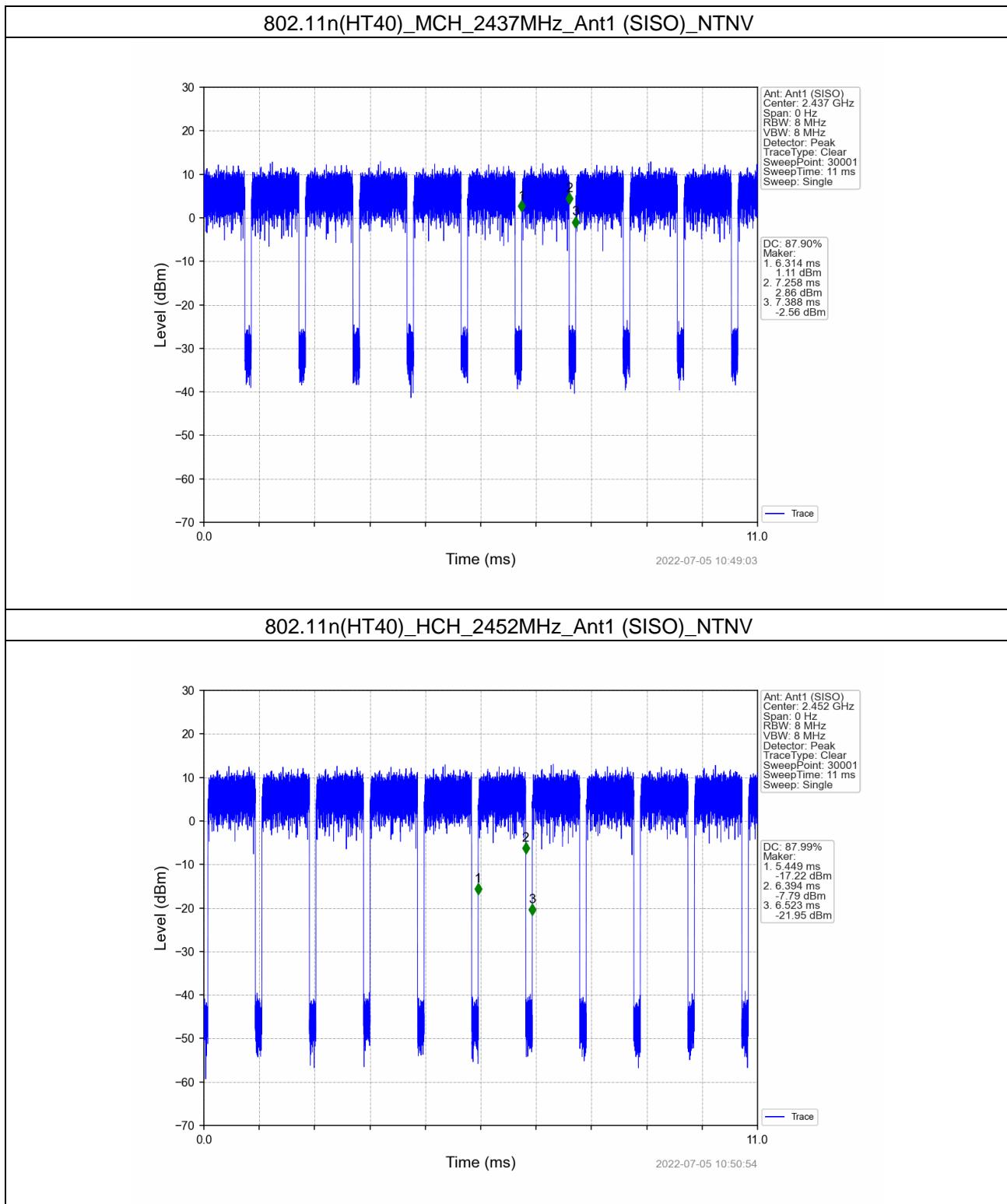
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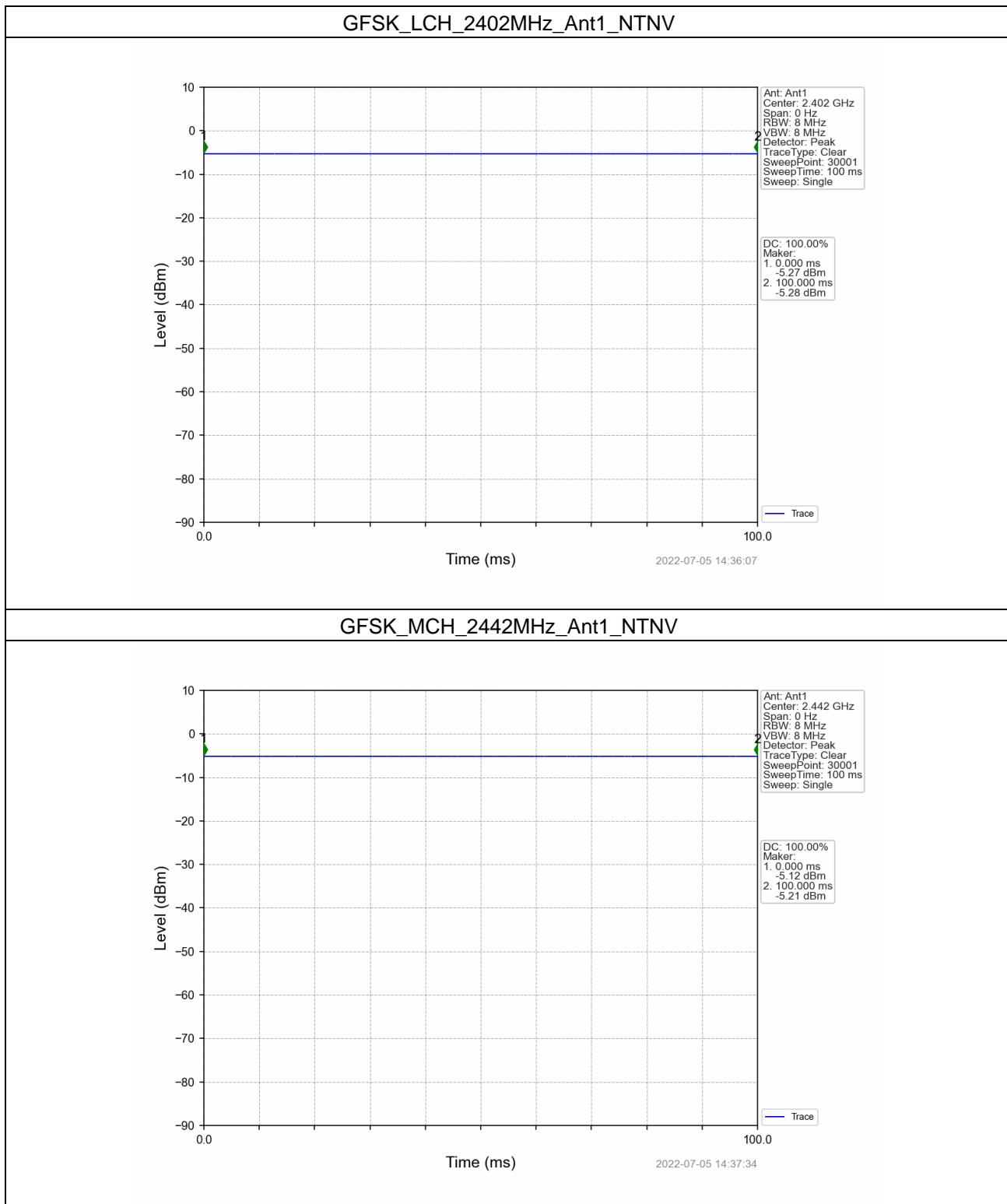


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