



TEST REPORT

Application No.: GZCR2209001154AT
Applicant: YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address of Applicant: No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China
Manufacturer: YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address of Manufacturer: No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China
Equipment Under Test (EUT):
EUT Name: HD Wireless Conference Phone
Model No.: CP935W
Trade Mark: YEALINK
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-09-07
Date of Test: 2022-09-24 to 2022-11-08
Date of Issue: 2023-01-09

Test Result:	Pass*
---------------------	--------------

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

Ricky Liu

Ricky Liu
Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark:

The modular approval by TCB, FCC ID: T2C-YL430132, Granted on 12/10/2021.

The host approval by TCB, FCC ID: T2C- CP935W, Granted on 01/05/2023.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: T2C-YL430132 was performed with an antenna which was connected to the module in an open environment. The current host platform under application uses a new antenna of the different type, higher gain and is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model and shown the data in this report.



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 Description of Support Units	5
4.3 Measurement Uncertainty	5
4.4 Test Location	6
4.5 Test Facility	6
4.6 Deviation from Standards	7
4.7 Abnormalities from Standard Conditions	7
5 Equipment List	8
6 Radio Spectrum Technical Requirement	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 Radio Spectrum Matter Test Results	12
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	12
7.1.1 E.U.T. Operation	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data	13
7.2 Radiated Emissions which fall in the restricted bands	16
7.2.1 E.U.T. Operation	16
7.2.2 Test Mode Description	16
7.2.3 Test Setup Diagram	17
7.2.4 Measurement Procedure and Data	17
7.3 Radiated Spurious Emissions (Below 1GHz)	30
7.3.1 E.U.T. Operation	30
7.3.2 Test Mode Description	30
7.3.3 Test Setup Diagram	31
7.3.4 Measurement Procedure and Data	31
7.4 Radiated Spurious Emissions (Above 1GHz)	34
7.4.1 E.U.T. Operation	34
7.4.2 Test Mode Description	34
7.4.3 Test Setup Diagram	35
7.4.4 Measurement Procedure and Data	36
8 Test Setup Photo	55
9 EUT Construction Details (EUT Photos)	55



4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery DC3.7V, 7800mAh ,charged by adapter Powered by adapter Adapter No.: YLPS121250C1-3C Input: AC100-240V; 50/60Hz; 0.5A Output: DC12.0V 1.25A
Cable(s):	DC cable: 250cm unshielded DC cable: 85cm unshielded USB Type C cable: 85cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	5.08dBi declared by applicant

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

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

4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

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

- **ACMA**

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

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

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

- **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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-21	2025-09-20
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01 2022-10-21	2022-10-31 2023-10-20
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-29	2023-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preampfier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-24	2023-08-23



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Radiated Spurious Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18
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
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
				2022-10-16	2025-10-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19

Radiated Spurious Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-21	2025-09-20
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
				2022-10-21	2023-10-20
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-29	2023-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. No. 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China. 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
Guangzhou Branch: EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-24	2023-08-23
---------------------------------------------------	-------------	----------	---------	------------	------------

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23
DMM	Fluke	73	EMC0007	2022-06-24	2023-06-23

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

15.203 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 5.08dBi.

Antenna location: Refer to internal photo.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C

Humidity: 51.5 % RH

Atmospheric Pressure: 1015 mbar

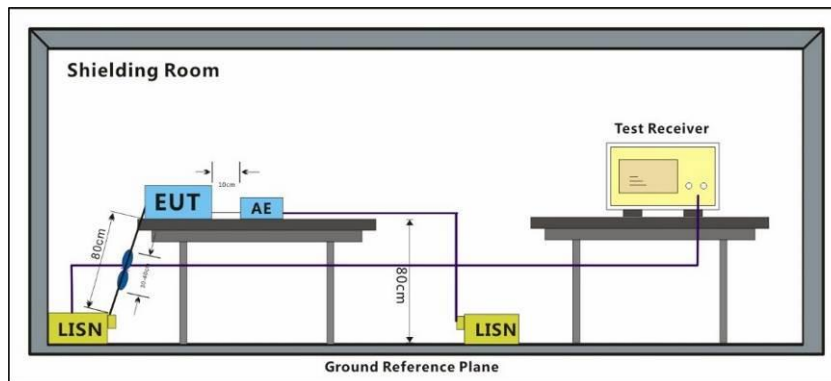
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	05	
------------	----	--

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

7.1.3 Test Setup Diagram



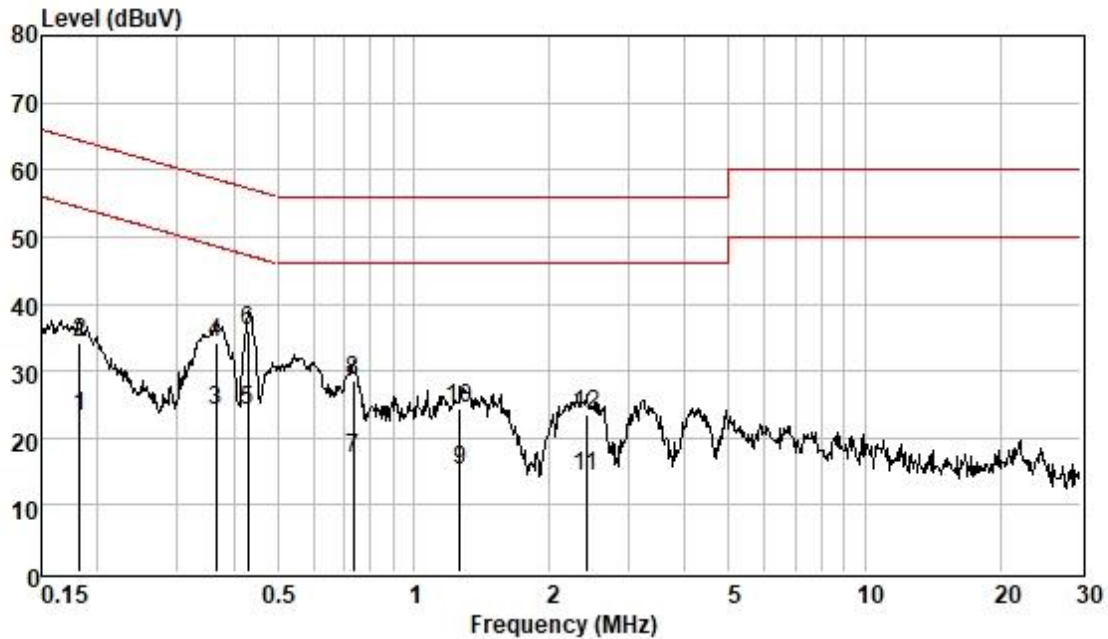
7.1.4 Measurement Procedure and Data

- 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 $50\Omega/50\mu\text{H} + 50\text{m}\Omega$ 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:

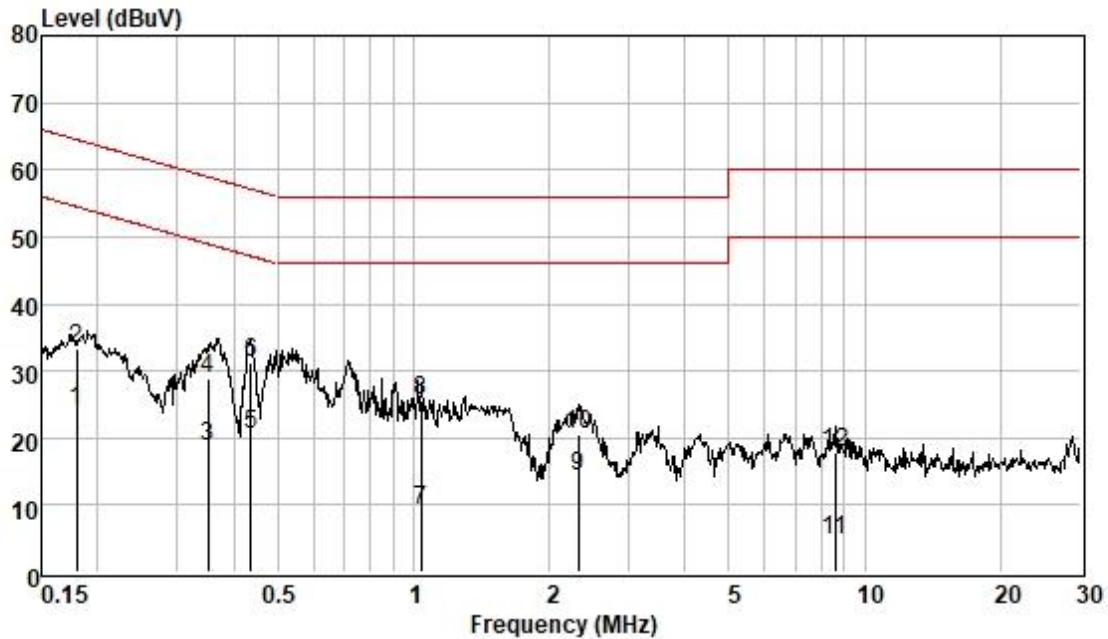
- 1) $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$
- 2) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

Test Mode: 05; Line: Live line

Pol : LINE
Mode :
Model :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.182	13.66	0.06	9.55	23.27	54.37	-31.10	Average
2	0.182	24.73	0.06	9.55	34.34	64.37	-30.03	QP
3	0.365	14.36	0.06	9.58	24.00	48.61	-24.61	Average
4	0.365	24.46	0.06	9.58	34.10	58.61	-24.51	QP
5	0.431	14.43	0.06	9.58	24.07	47.24	-23.17	Average
6	0.431	26.28	0.06	9.58	35.92	57.24	-21.32	QP
7	0.735	7.25	0.07	9.59	16.91	46.00	-29.09	Average
8	0.735	18.84	0.07	9.59	28.50	56.00	-27.50	QP
9	1.269	5.36	0.09	9.60	15.05	46.00	-30.95	Average
10	1.269	14.84	0.09	9.60	24.53	56.00	-31.47	QP
11	2.409	4.54	0.13	9.60	14.27	46.00	-31.73	Average
12	2.409	13.69	0.13	9.60	23.42	56.00	-32.58	QP

Test Mode: 05; Line: Neutral Line

Pol : NEUTRAL
Mode :
Model :

	Freque MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.180	14.63	0.06	9.54	24.23	54.50	-30.27	Average
2	0.180	23.81	0.06	9.54	33.41	64.50	-31.09	QP
3	0.350	9.12	0.06	9.57	18.75	48.96	-30.21	Average
4	0.350	19.30	0.06	9.57	28.93	58.96	-30.03	QP
5	0.437	10.99	0.06	9.58	20.63	47.11	-26.48	Average
6	0.437	21.63	0.06	9.58	31.27	57.11	-25.84	QP
7	1.037	-0.38	0.07	9.59	9.28	46.00	-36.72	Average
8	1.037	15.82	0.07	9.59	25.48	56.00	-30.52	QP
9	2.321	4.56	0.13	9.60	14.29	46.00	-31.71	Average
10	2.321	10.71	0.13	9.60	20.44	56.00	-35.56	QP
11	8.592	-5.19	0.21	9.77	4.79	50.00	-45.21	Average
12	8.592	7.97	0.21	9.77	17.95	60.00	-42.05	QP

7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

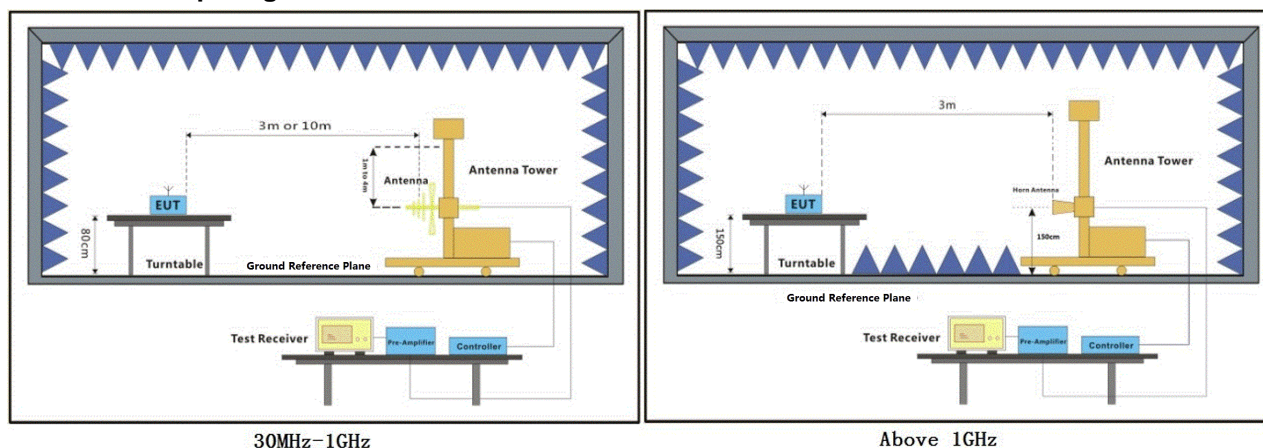


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch, Inspection & Testing Services, EEC Laboratory, No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China. 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
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

7.2.3 Test Setup Diagram



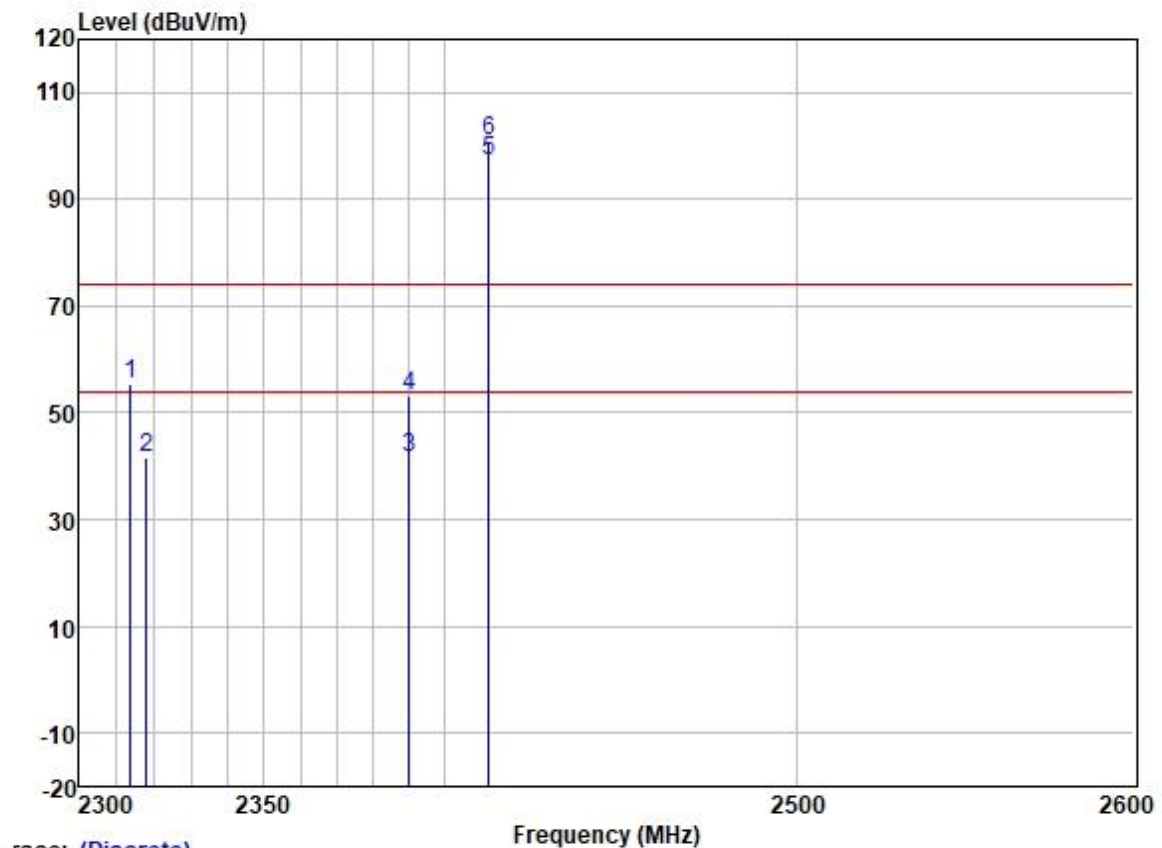
7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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

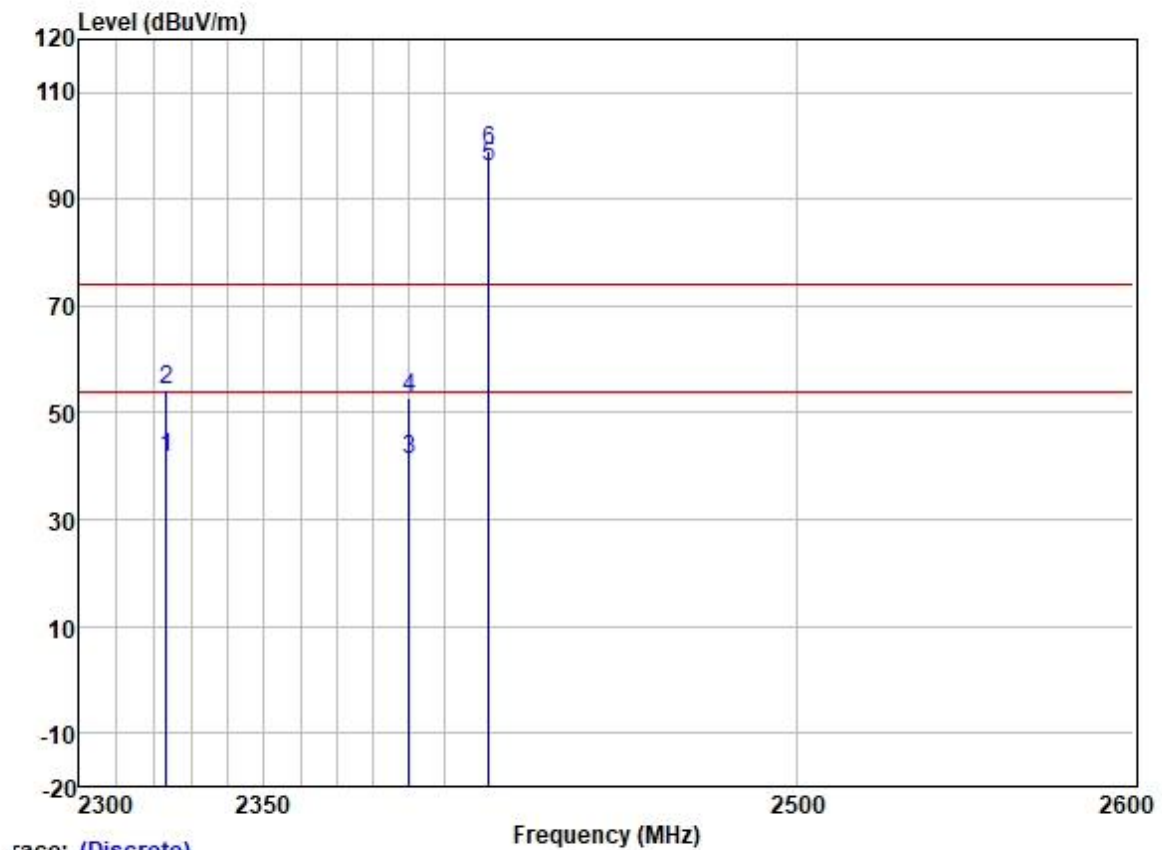
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2313.629	62.44	27.15	3.32	37.62	55.29	74.00	-18.71	HORIZONTAL	Peak
2	2317.969	48.60	27.17	3.33	37.62	41.48	54.00	-12.52	HORIZONTAL	Average
3	2390.000	48.24	27.33	3.48	37.59	41.46	54.00	-12.54	HORIZONTAL	Average
4	2390.000	59.91	27.33	3.48	37.59	53.13	74.00	-20.87	HORIZONTAL	Peak
5 *	2412.000	103.93	27.38	3.47	37.59	97.19	54.00	43.19	HORIZONTAL	Average
6 *	2412.000	107.53	27.38	3.47	37.59	100.79	74.00	26.79	HORIZONTAL	Peak

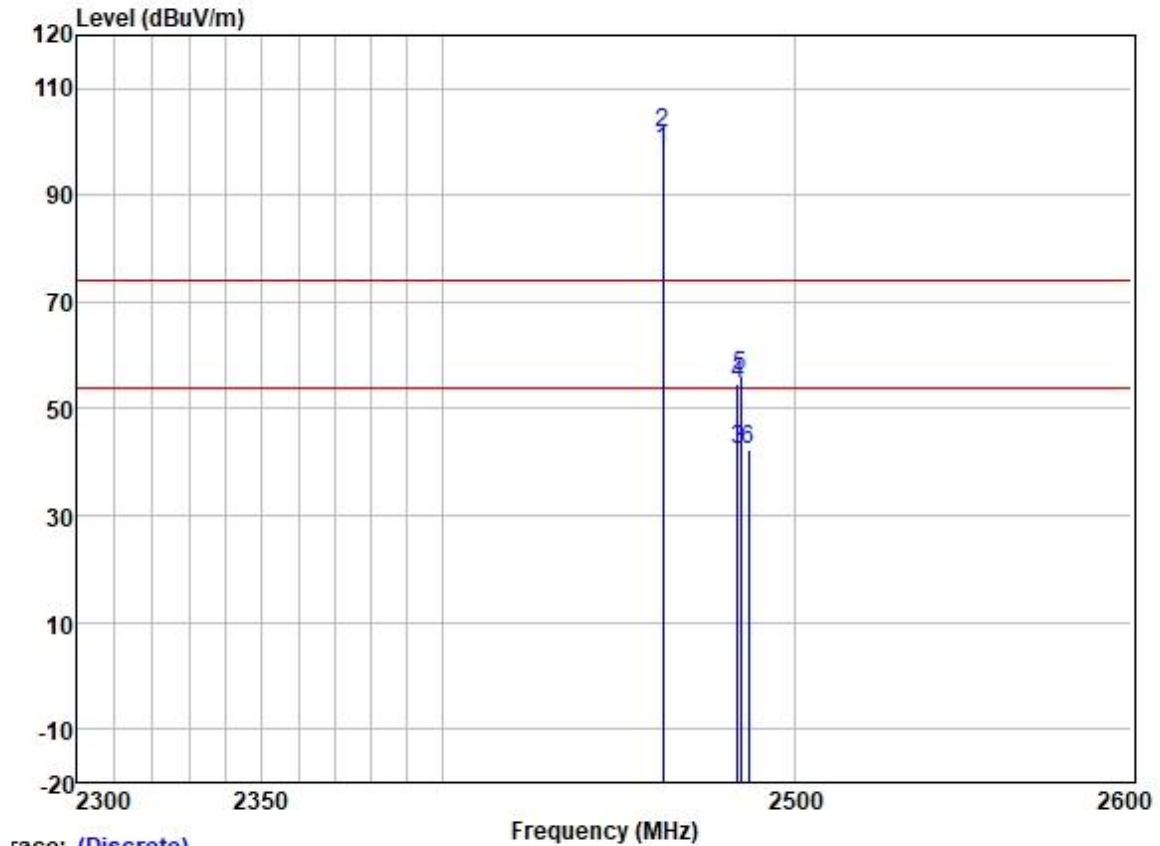
Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2323.493	48.56	27.19	3.34	37.62	41.47	54.00	-12.53	VERTICAL	Average
2	2323.493	61.31	27.19	3.34	37.62	54.22	74.00	-19.78	VERTICAL	Peak
3	2390.000	47.99	27.33	3.48	37.59	41.21	54.00	-12.79	VERTICAL	Average
4	2390.000	59.67	27.33	3.48	37.59	52.89	74.00	-21.11	VERTICAL	Peak
5 *	2412.000	102.94	27.38	3.47	37.59	96.20	54.00	42.20	VERTICAL	Average
6 *	2412.000	105.66	27.38	3.47	37.59	98.92	74.00	24.92	VERTICAL	Peak

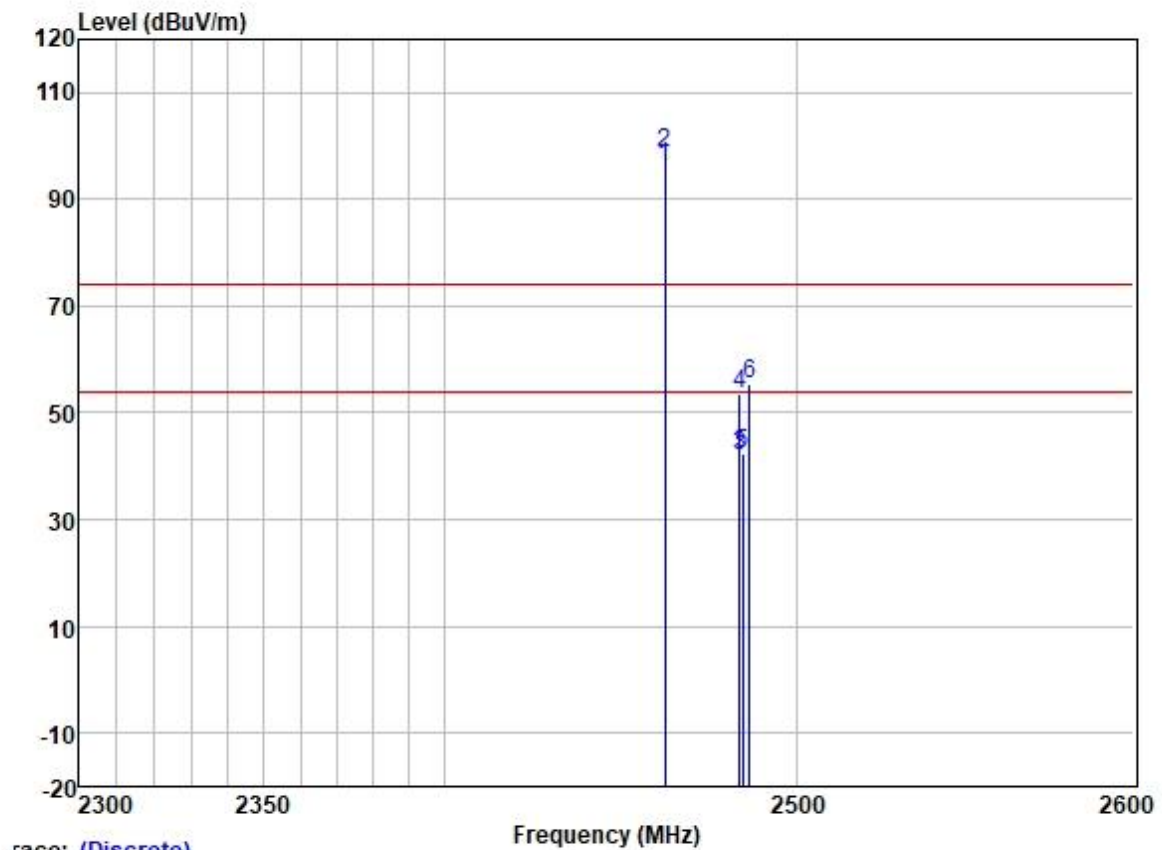
Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	104.93	27.45	3.50	37.58	98.30	54.00	44.30	HORIZONTAL	Average
2 *	2462.000	108.49	27.45	3.50	37.58	101.86	74.00	27.86	HORIZONTAL	Peak
3	2483.500	48.84	27.48	3.53	37.57	42.28	54.00	-11.72	HORIZONTAL	Average
4	2483.500	61.15	27.48	3.53	37.57	54.59	74.00	-19.41	HORIZONTAL	Peak
5	2484.191	62.67	27.48	3.53	37.57	56.11	74.00	-17.89	HORIZONTAL	Peak
6	2486.651	48.74	27.48	3.53	37.57	42.18	54.00	-11.82	HORIZONTAL	Average

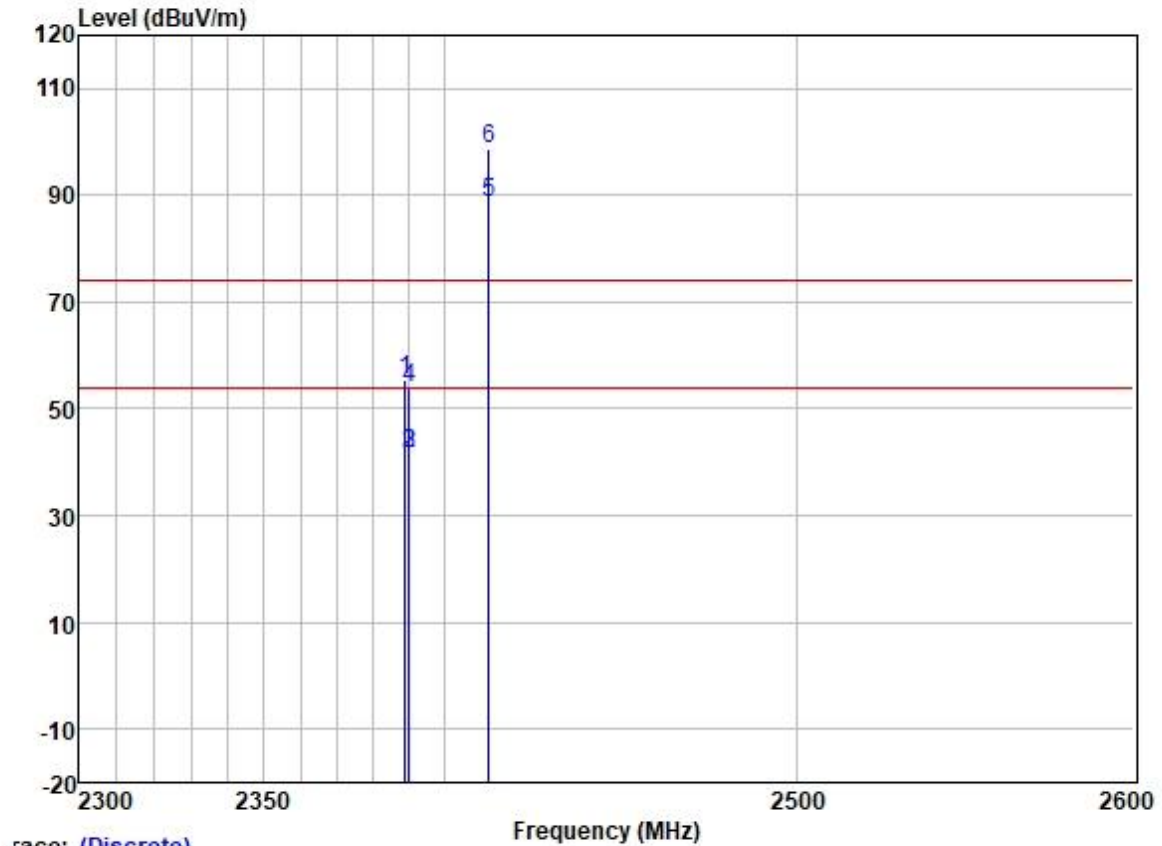
Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	102.68	27.45	3.50	37.58	96.05	54.00	42.05	VERTICAL	Average
2 *	2462.000	105.47	27.45	3.50	37.58	98.84	74.00	24.84	VERTICAL	Peak
3	2483.500	48.64	27.48	3.53	37.57	42.08	54.00	-11.92	VERTICAL	Average
4	2483.500	60.20	27.48	3.53	37.57	53.64	74.00	-20.36	VERTICAL	Peak
5	2484.292	48.79	27.48	3.53	37.57	42.23	54.00	-11.77	VERTICAL	Average
6	2486.199	61.99	27.48	3.53	37.57	55.43	74.00	-18.57	VERTICAL	Peak

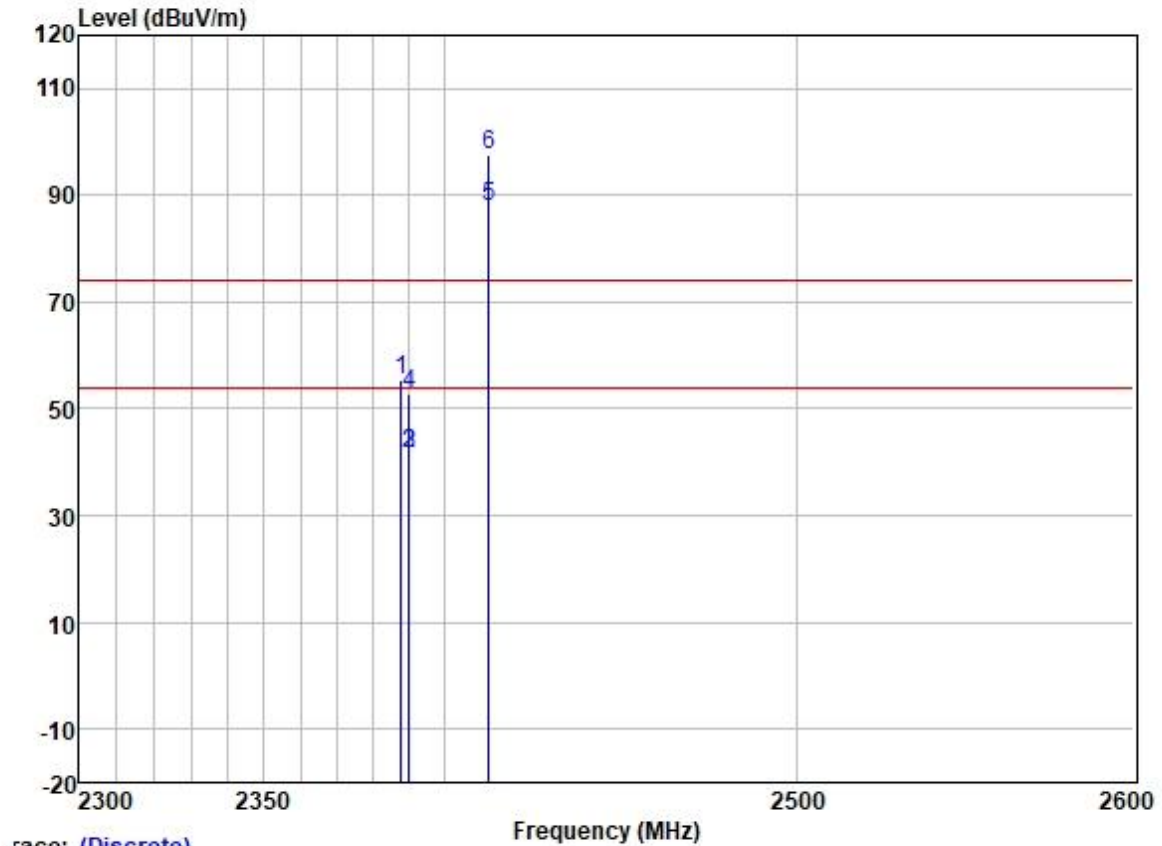
Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

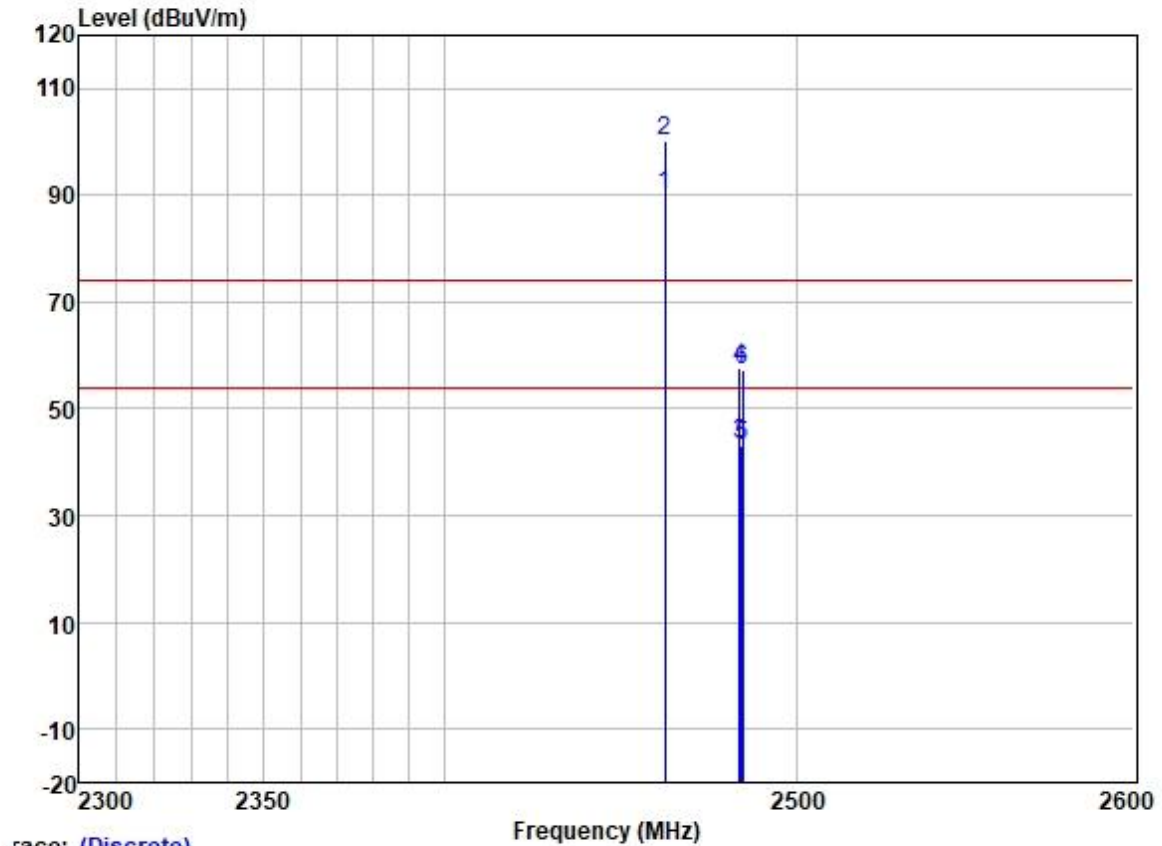
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2388.758	62.12	27.33	3.48	37.59	55.34	74.00	-18.66	HORIZONTAL	Peak
2	2389.968	48.54	27.33	3.48	37.59	41.76	54.00	-12.24	HORIZONTAL	Average
3	2390.000	48.54	27.33	3.48	37.59	41.76	54.00	-12.24	HORIZONTAL	Average
4	2390.000	60.77	27.33	3.48	37.59	53.99	74.00	-20.01	HORIZONTAL	Peak
5 *	2412.000	95.41	27.38	3.47	37.59	88.67	54.00	34.67	HORIZONTAL	Average
6 *	2412.000	105.52	27.38	3.47	37.59	98.78	74.00	24.78	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2387.670	62.02	27.33	3.48	37.59	55.24	74.00	-18.76	VERTICAL	Peak
2	2389.847	48.43	27.33	3.48	37.59	41.65	54.00	-12.35	VERTICAL	Average
3	2390.000	48.27	27.33	3.48	37.59	41.49	54.00	-12.51	VERTICAL	Average
4	2390.000	59.74	27.33	3.48	37.59	52.96	74.00	-21.04	VERTICAL	Peak
5 *	2412.000	94.63	27.38	3.47	37.59	87.89	54.00	33.89	VERTICAL	Average
6 *	2412.000	104.20	27.38	3.47	37.59	97.46	74.00	23.46	VERTICAL	Peak

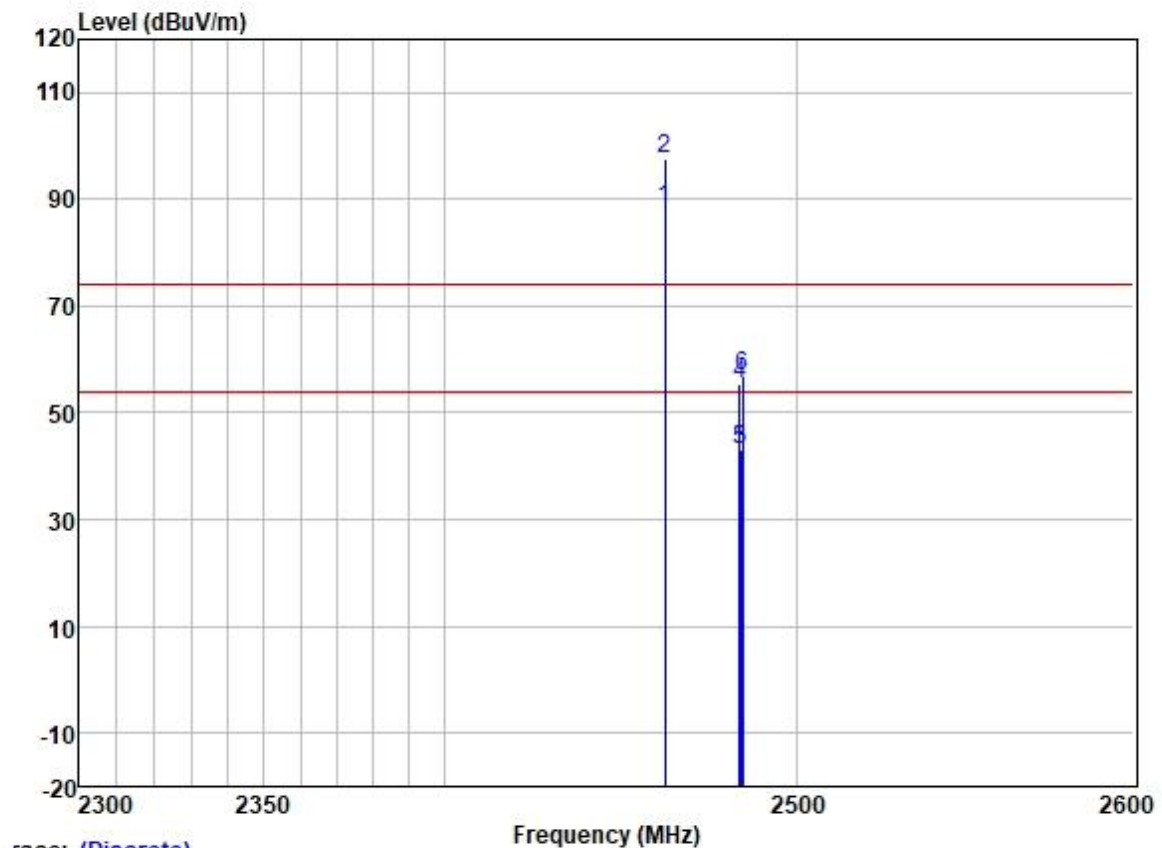
Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	96.93	27.45	3.50	37.58	90.30	54.00	36.30	HORIZONTAL	Average
2 *	2462.000	106.92	27.45	3.50	37.58	100.29	74.00	26.29	HORIZONTAL	Peak
3	2483.500	49.96	27.48	3.53	37.57	43.40	54.00	-10.60	HORIZONTAL	Average
4	2483.500	64.38	27.48	3.53	37.57	57.82	74.00	-16.18	HORIZONTAL	Peak
5	2483.940	49.69	27.48	3.53	37.57	43.13	54.00	-10.87	HORIZONTAL	Average
6	2484.342	63.86	27.48	3.53	37.57	57.30	74.00	-16.70	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	94.76	27.45	3.50	37.58	88.13	54.00	34.13	VERTICAL	Average
2 *	2462.000	104.27	27.45	3.50	37.58	97.64	74.00	23.64	VERTICAL	Peak
3	2483.500	49.65	27.48	3.53	37.57	43.09	54.00	-10.91	VERTICAL	Average
4	2483.500	61.99	27.48	3.53	37.57	55.43	74.00	-18.57	VERTICAL	Peak
5	2483.890	49.47	27.48	3.53	37.57	42.91	54.00	-11.09	VERTICAL	Average
6	2484.292	63.37	27.48	3.53	37.57	56.81	74.00	-17.19	VERTICAL	Peak



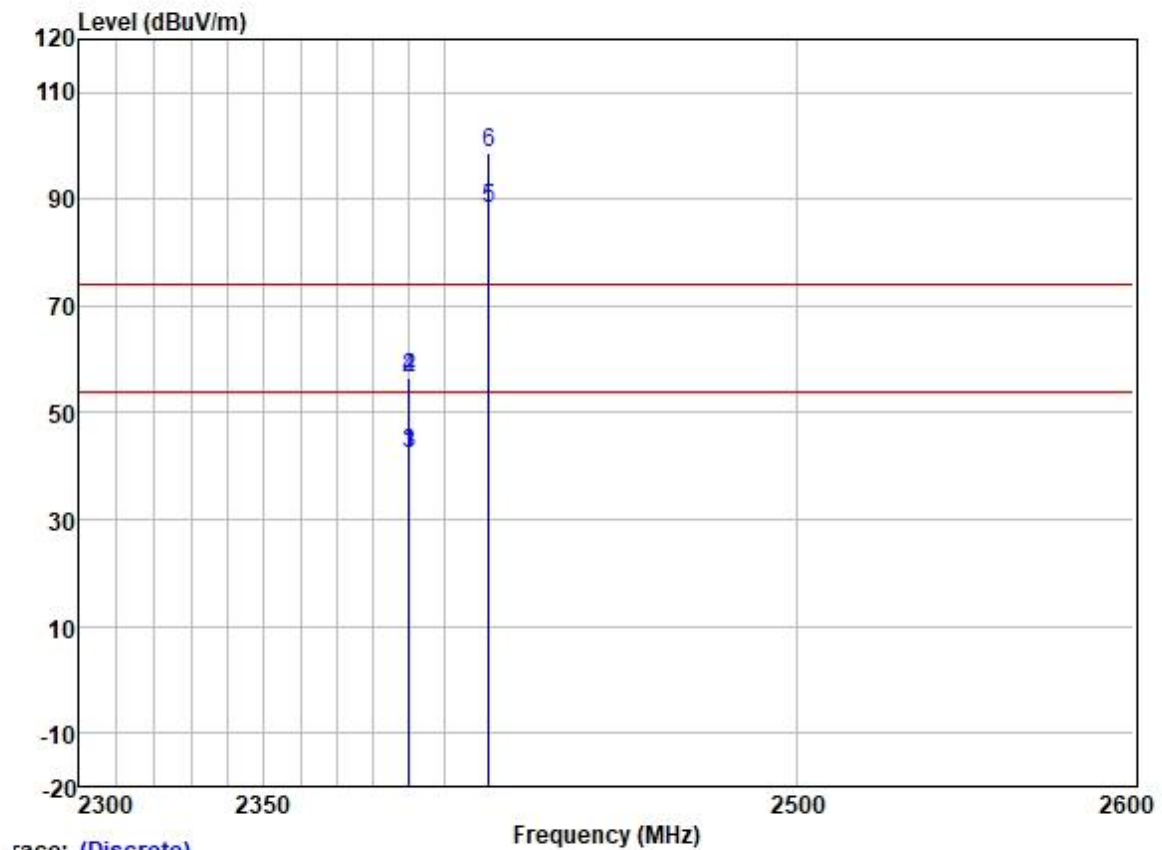
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereafter, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a test from their responsibility. The Company's responsibility is limited to the test results and may not be extended to the sample(s) except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-75) 8307 1443.

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory.

No.198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 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 sgsg.china@sgsg.com

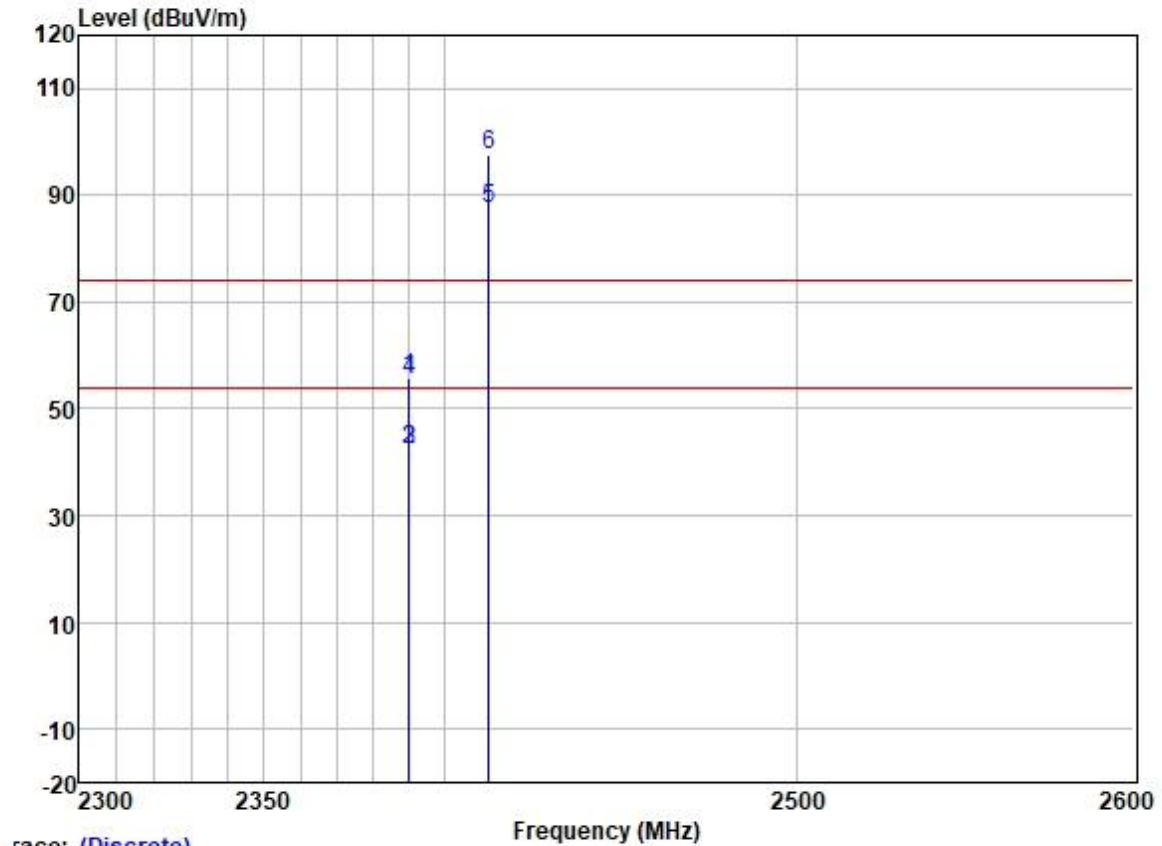
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.968	48.96	27.33	3.48	37.59	42.18	54.00	-11.82	HORIZONTAL	Average
2	2389.968	63.49	27.33	3.48	37.59	56.71	74.00	-17.29	HORIZONTAL	Peak
3	2390.000	48.96	27.33	3.48	37.59	42.18	54.00	-11.82	HORIZONTAL	Average
4	2390.000	63.49	27.33	3.48	37.59	56.71	74.00	-17.29	HORIZONTAL	Peak
5 *	2412.000	95.16	27.38	3.47	37.59	88.42	54.00	34.42	HORIZONTAL	Average
6 *	2412.000	105.29	27.38	3.47	37.59	98.55	74.00	24.55	HORIZONTAL	Peak

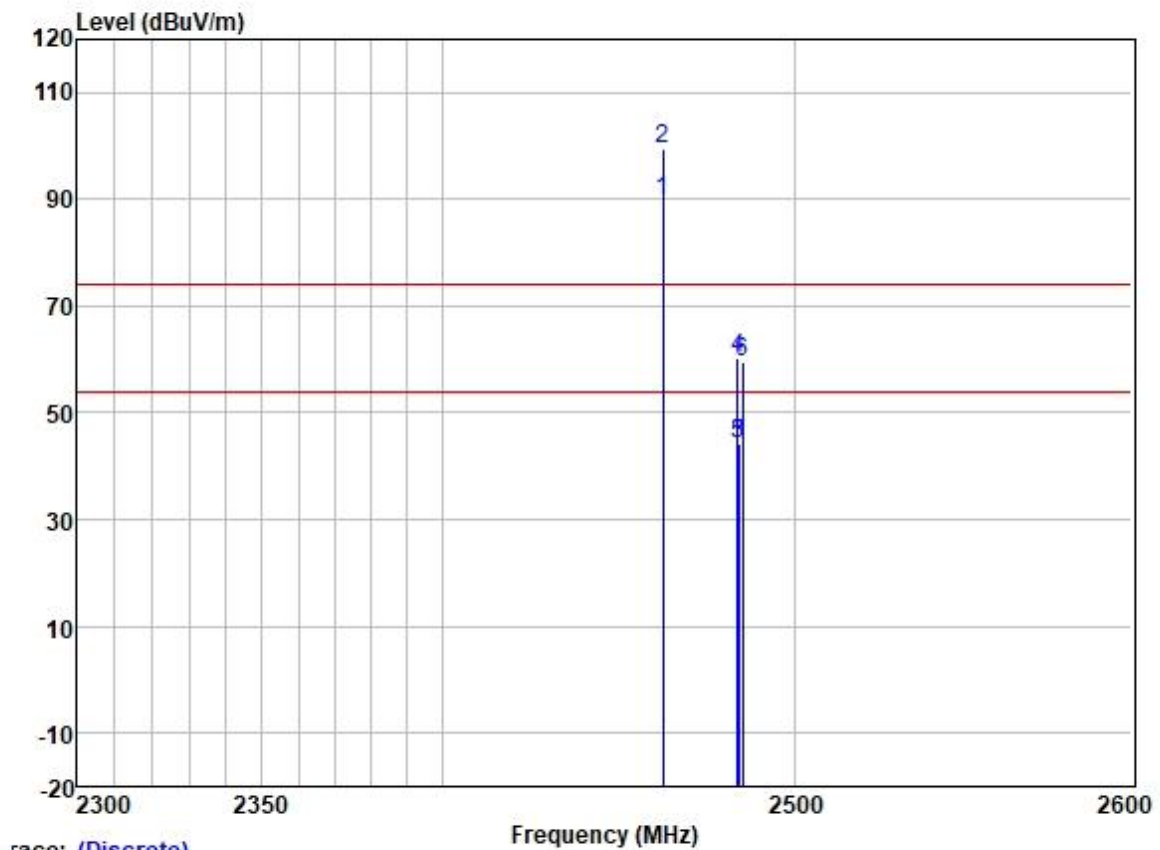
Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.847	62.52	27.33	3.48	37.59	55.74	74.00	-18.26	VERTICAL	Peak
2	2389.968	49.16	27.33	3.48	37.59	42.38	54.00	-11.62	VERTICAL	Average
3	2390.000	49.16	27.33	3.48	37.59	42.38	54.00	-11.62	VERTICAL	Average
4	2390.000	62.31	27.33	3.48	37.59	55.53	74.00	-18.47	VERTICAL	Peak
5 *	2412.000	94.26	27.38	3.47	37.59	87.52	54.00	33.52	VERTICAL	Average
6 *	2412.000	104.39	27.38	3.47	37.59	97.65	74.00	23.65	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	96.22	27.45	3.50	37.58	89.59	54.00	35.59	HORIZONTAL	Average
2 *	2462.000	106.22	27.45	3.50	37.58	99.59	74.00	25.59	HORIZONTAL	Peak
3	2483.500	50.76	27.48	3.53	37.57	44.20	54.00	-9.80	HORIZONTAL	Average
4	2483.500	66.73	27.48	3.53	37.57	60.17	74.00	-13.83	HORIZONTAL	Peak
5	2483.840	50.69	27.48	3.53	37.57	44.13	54.00	-9.87	HORIZONTAL	Average
6	2484.793	66.11	27.48	3.53	37.57	59.55	74.00	-14.45	HORIZONTAL	Peak

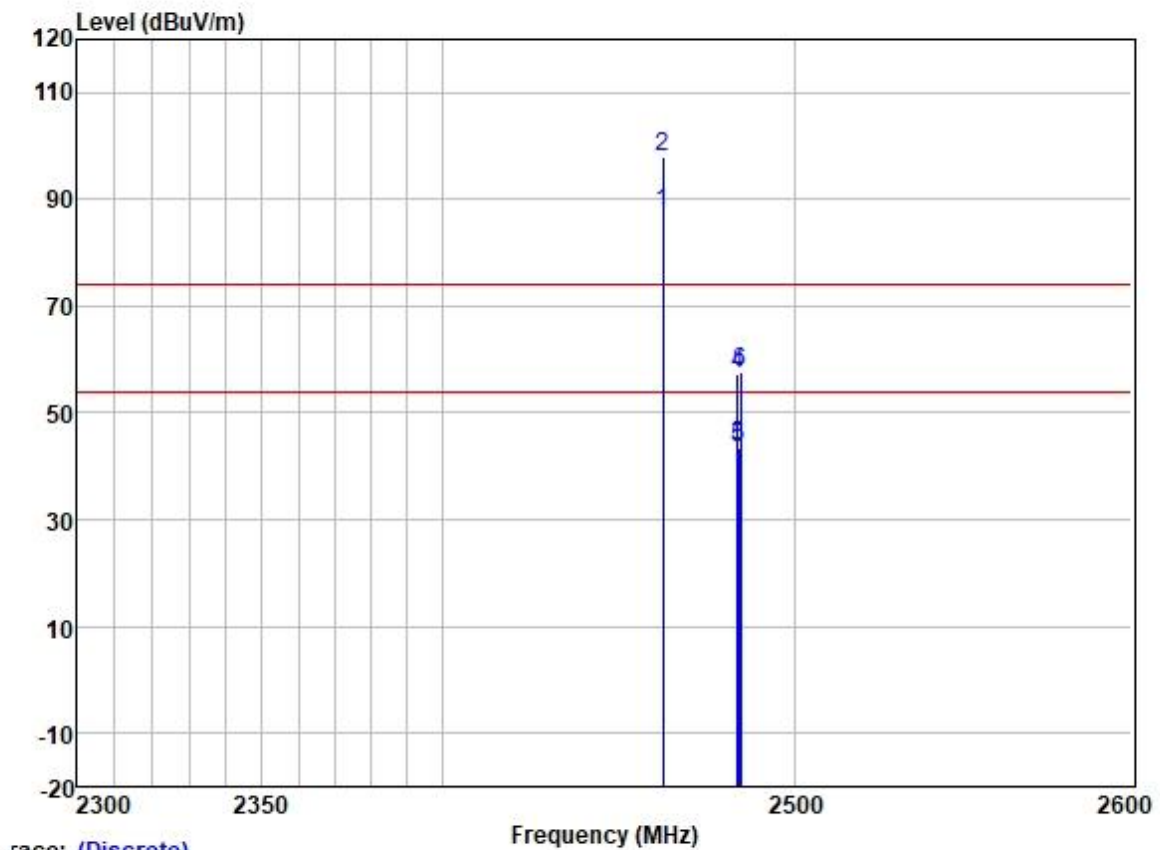


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on leaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-conditions.aspx>, and for legal and/or format documents subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms--Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory.

中国·广州·经济技术开发区科学城科珠路98号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	2462.000	94.22	27.45	3.50	37.58	87.59	54.00	33.59	VERTICAL	Average
2	*	2462.000	104.42	27.45	3.50	37.58	97.79	74.00	23.79	VERTICAL	Peak
3		2483.500	50.34	27.48	3.53	37.57	43.78	54.00	-10.22	VERTICAL	Average
4		2483.500	63.83	27.48	3.53	37.57	57.27	74.00	-16.73	VERTICAL	Peak
5		2483.790	50.05	27.48	3.53	37.57	43.49	54.00	-10.51	VERTICAL	Average
6		2484.292	64.11	27.48	3.53	37.57	57.55	74.00	-16.45	VERTICAL	Peak

7.3 Radiated Spurious Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 50.6 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

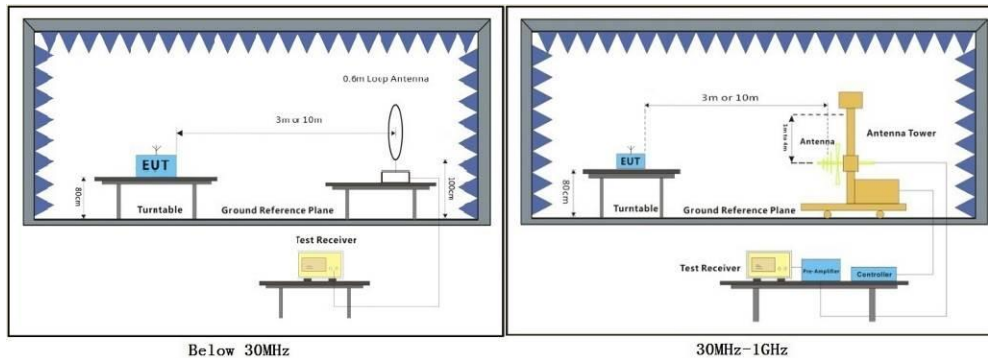
Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Pre-scan	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
----------	----	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Final test	05	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
------------	----	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



7.3.3 Test Setup Diagram



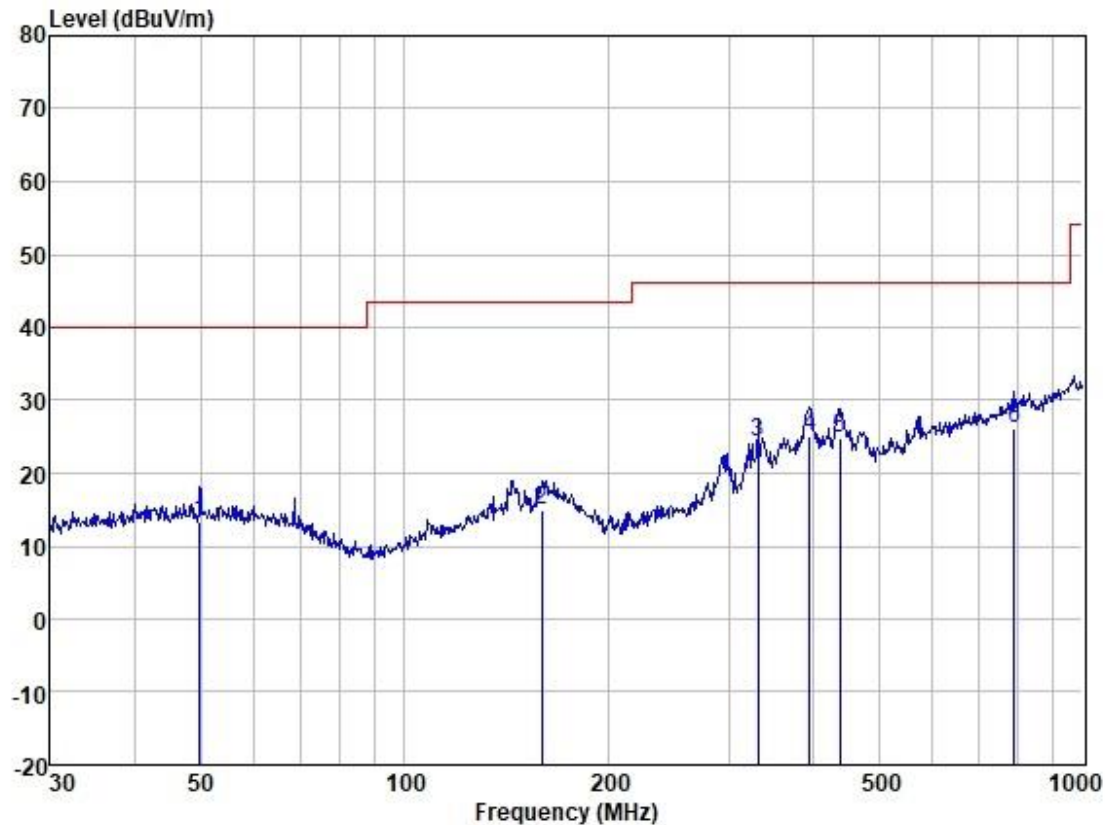
7.3.4 Measurement Procedure and Data

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

Remark:

- Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

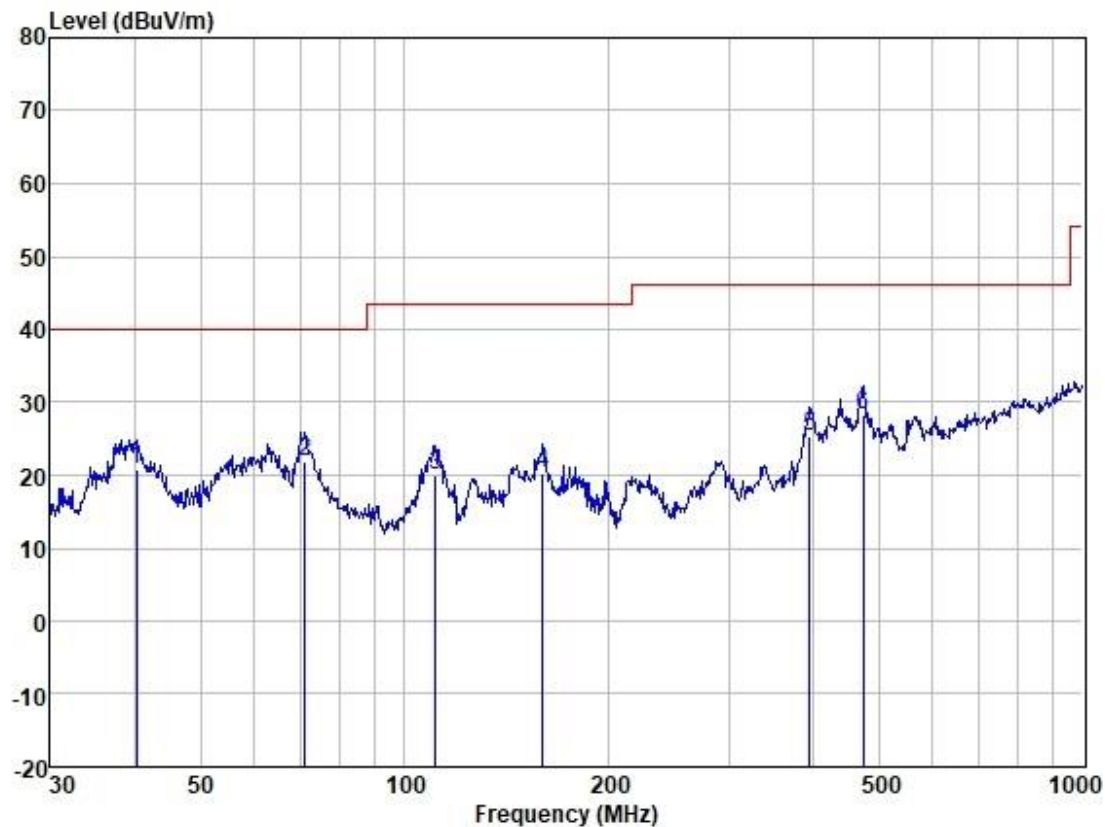
Test Mode: 05; Polarity: Horizontal; Modulation: GFSK; ; Channel: Low



Site : SGS
Job :
Model :
Power :
Test Mode : 05

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.881	25.72	13.98	1.13	27.60	13.23	40.00	-26.77	HORIZONTAL	QP
2	159.225	26.41	13.67	2.32	27.36	15.04	43.50	-28.46	HORIZONTAL	QP
3	331.355	34.00	14.26	3.44	27.41	24.29	46.00	-21.71	HORIZONTAL	QP
4	394.855	33.72	15.45	3.86	27.98	25.05	46.00	-20.95	HORIZONTAL	QP
5	438.655	32.25	16.73	4.11	28.21	24.88	46.00	-21.12	HORIZONTAL	QP
6	793.396	26.04	22.67	6.00	28.60	26.11	46.00	-19.89	HORIZONTAL	QP

Test Mode: 05; Polarity: Vertical; Modulation: GFSK; ; Channel: Low



Site : SGS
Job :
Model :
Power :
Test Mode : 05

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.135	33.95	13.50	1.09	27.61	20.93	40.00	-19.07	VERTICAL	QP
2	71.330	36.81	11.22	1.42	27.60	21.85	40.00	-18.15	VERTICAL	QP
3	110.957	35.46	10.45	1.77	27.58	20.10	43.50	-23.40	VERTICAL	QP
4	159.784	31.50	13.69	2.32	27.36	20.15	43.50	-23.35	VERTICAL	QP
5	394.855	34.02	15.45	3.86	27.98	25.35	46.00	-20.65	VERTICAL	QP
6	473.835	35.20	17.29	4.32	28.50	28.31	46.00	-17.69	VERTICAL	QP

7.4 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

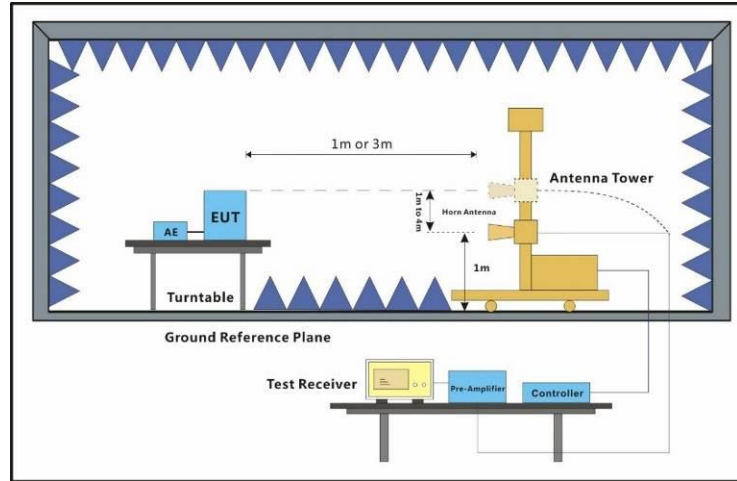
Temperature: 24.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	05	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

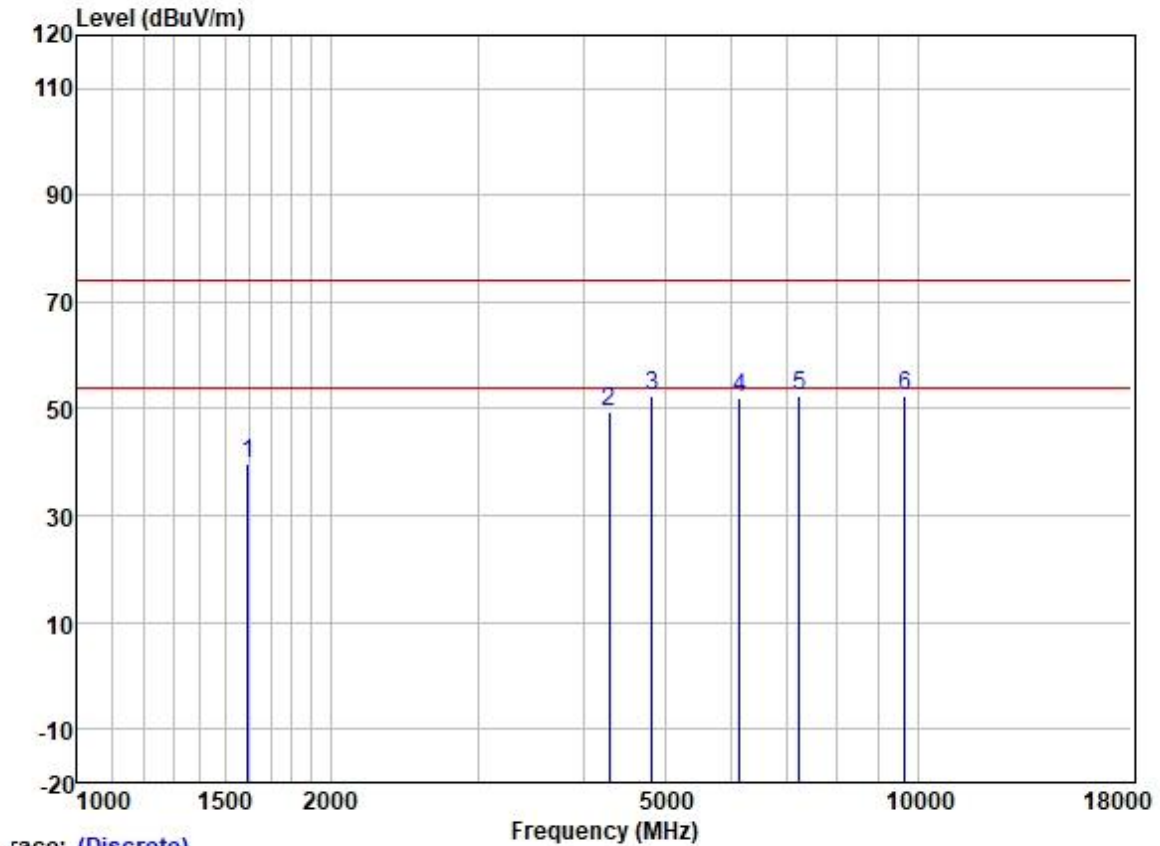
2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



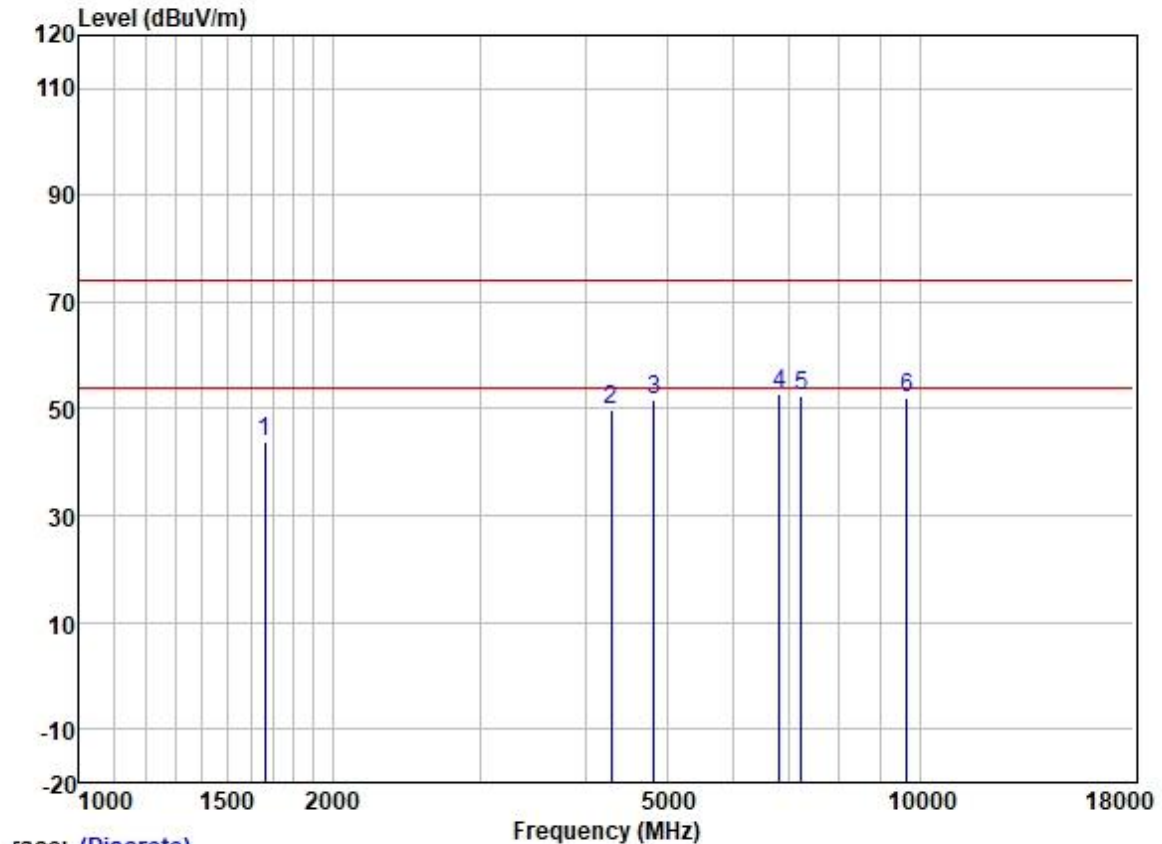
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



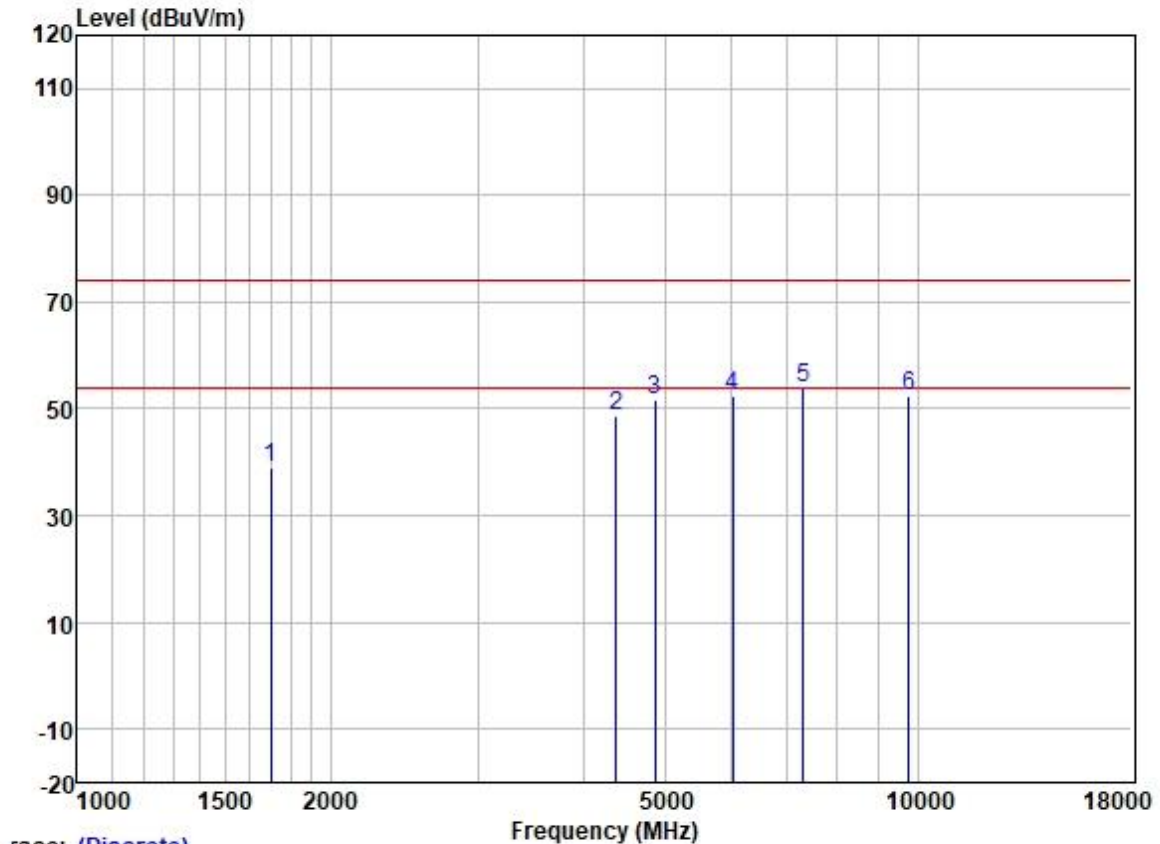
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	49.16	25.58	2.80	37.98	39.56	74.00	-34.44	HORIZONTAL	Peak
2	4291.977	51.30	30.45	4.64	36.81	49.58	74.00	-24.42	HORIZONTAL	Peak
3	4824.000	52.51	31.45	5.42	36.83	52.55	74.00	-21.45	HORIZONTAL	Peak
4	6142.019	50.27	32.77	6.12	36.93	52.23	74.00	-21.77	HORIZONTAL	Peak
5	7236.000	47.92	35.70	6.03	37.39	52.26	74.00	-21.74	HORIZONTAL	Peak
6	9648.000	44.32	38.40	7.06	37.42	52.36	74.00	-21.64	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	53.26	25.65	2.80	37.91	43.80	74.00	-30.20	VERTICAL	Peak
2	4291.977	51.70	30.45	4.64	36.81	49.98	74.00	-24.02	VERTICAL	Peak
3	4824.000	51.52	31.45	5.42	36.83	51.56	74.00	-22.44	VERTICAL	Peak
4	6815.551	49.42	34.70	5.82	37.13	52.81	74.00	-21.19	VERTICAL	Peak
5	7236.000	48.27	35.70	6.03	37.39	52.61	74.00	-21.39	VERTICAL	Peak
6	9648.000	44.01	38.40	7.06	37.42	52.05	74.00	-21.95	VERTICAL	Peak

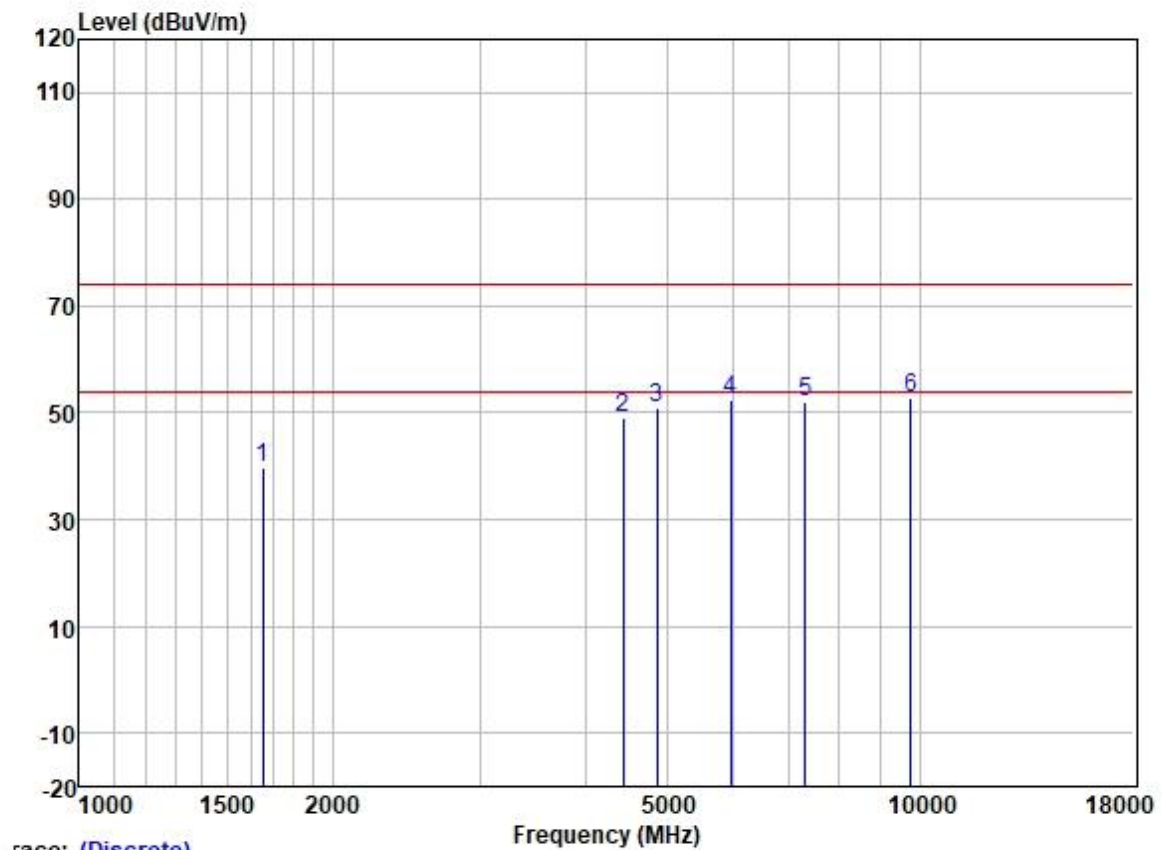
Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	48.42	25.71	2.80	37.89	39.04	74.00	-34.96	HORIZONTAL	Peak
2	4379.699	50.29	30.64	4.69	36.81	48.81	74.00	-25.19	HORIZONTAL	Peak
3	4874.000	51.56	31.54	5.50	36.84	51.76	74.00	-22.24	HORIZONTAL	Peak
4	6018.999	50.84	32.44	6.19	36.90	52.57	74.00	-21.43	HORIZONTAL	Peak
5	7311.000	49.33	35.93	6.11	37.42	53.95	74.00	-20.05	HORIZONTAL	Peak
6	9748.000	44.48	38.50	7.02	37.41	52.59	74.00	-21.41	HORIZONTAL	Peak

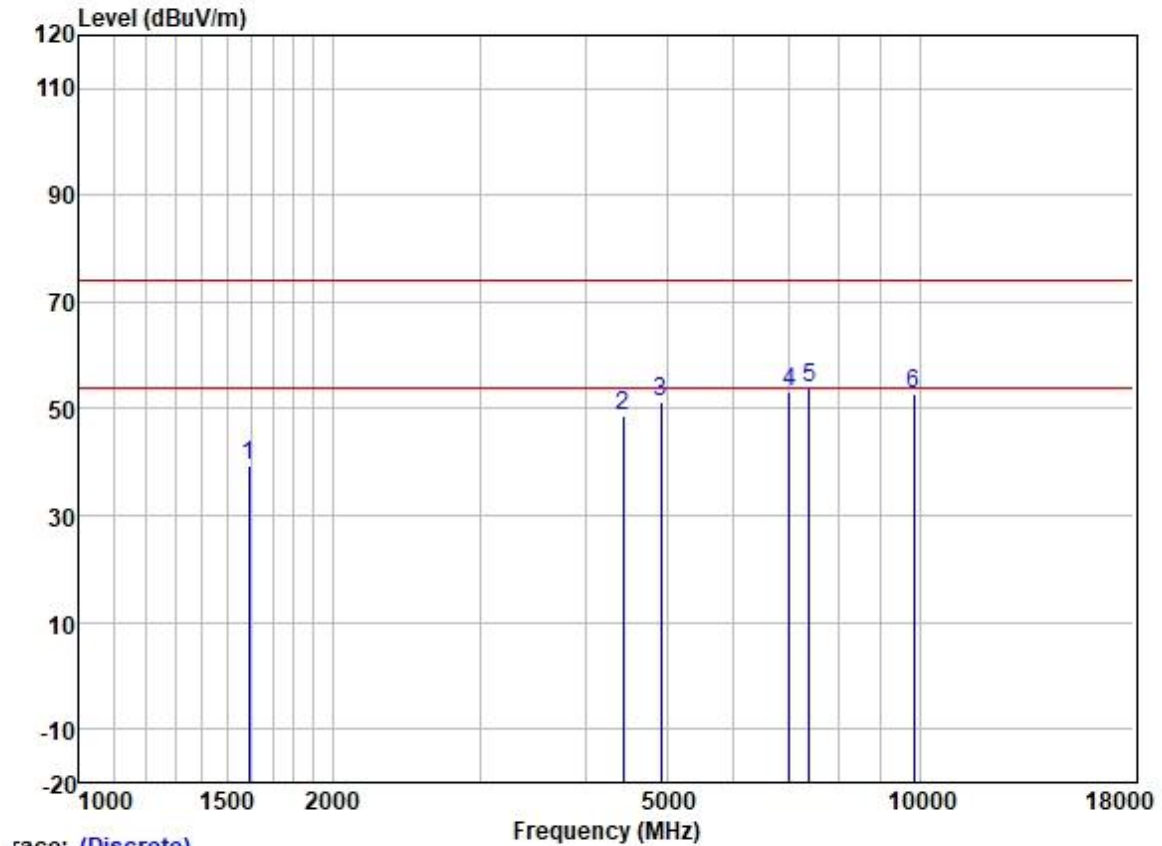
Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1653.550	49.10	25.64	2.80	37.93	39.61	74.00	-34.39	VERTICAL	Peak
2	4443.453	50.33	30.73	4.83	36.81	49.08	74.00	-24.92	VERTICAL	Peak
3	4874.000	50.87	31.54	5.50	36.84	51.07	74.00	-22.93	VERTICAL	Peak
4	5949.811	50.98	32.36	6.05	36.90	52.49	74.00	-21.51	VERTICAL	Peak
5	7311.000	47.60	35.93	6.11	37.42	52.22	74.00	-21.78	VERTICAL	Peak
6	9748.000	44.64	38.50	7.02	37.41	52.75	74.00	-21.25	VERTICAL	Peak

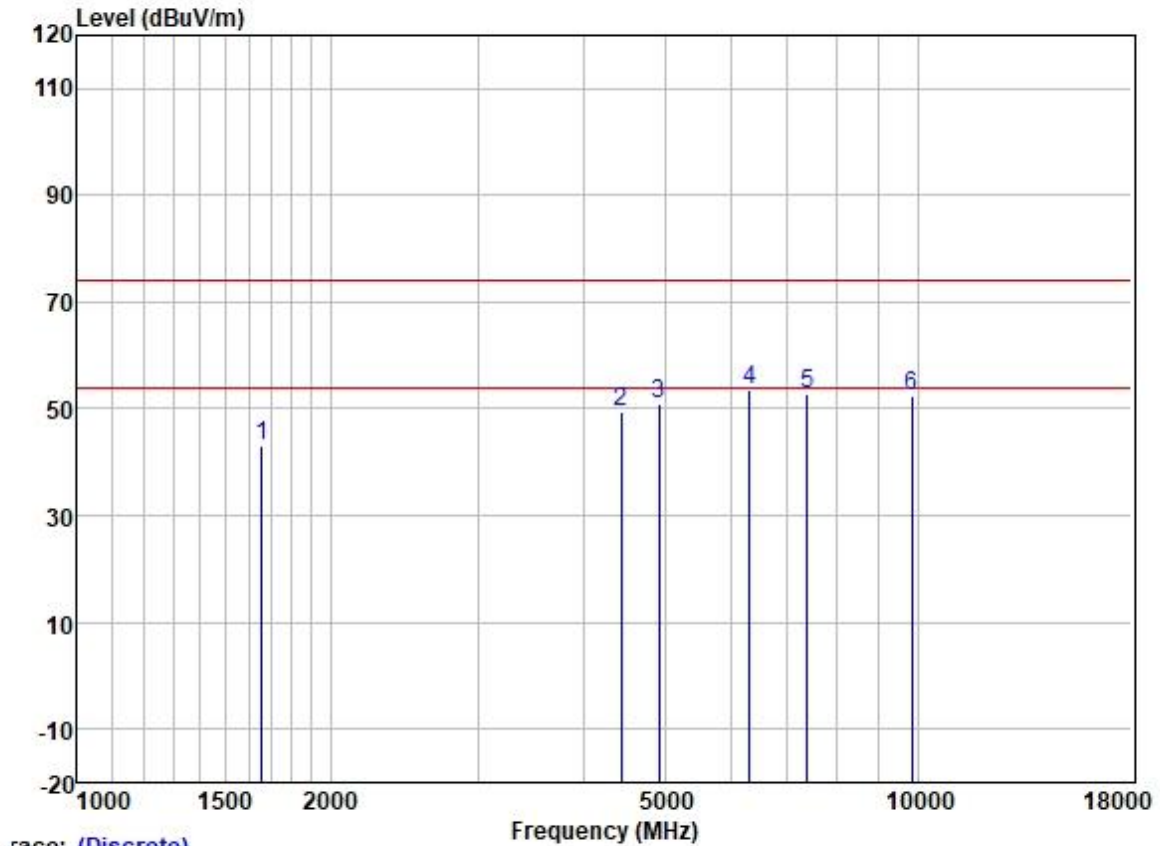
Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1592.571	48.98	25.57	2.80	37.98	39.37	74.00	-34.63	HORIZONTAL	Peak
2	4443.453	50.04	30.73	4.83	36.81	48.79	74.00	-25.21	HORIZONTAL	Peak
3	4924.000	50.75	31.62	5.60	36.84	51.13	74.00	-22.87	HORIZONTAL	Peak
4	6995.172	49.50	35.00	5.81	37.25	53.06	74.00	-20.94	HORIZONTAL	Peak
5	7386.000	49.08	36.17	6.19	37.45	53.99	74.00	-20.01	HORIZONTAL	Peak
6	9848.000	44.72	38.58	6.99	37.41	52.88	74.00	-21.12	HORIZONTAL	Peak

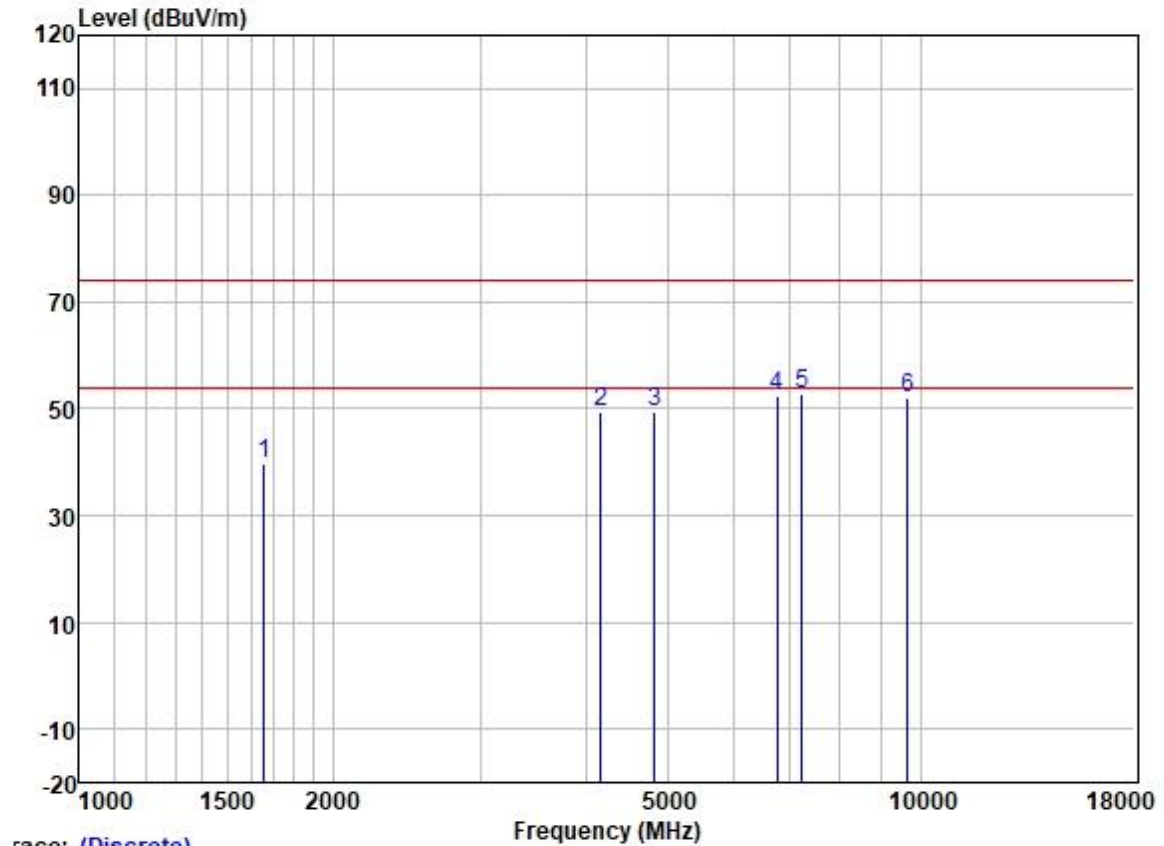
Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

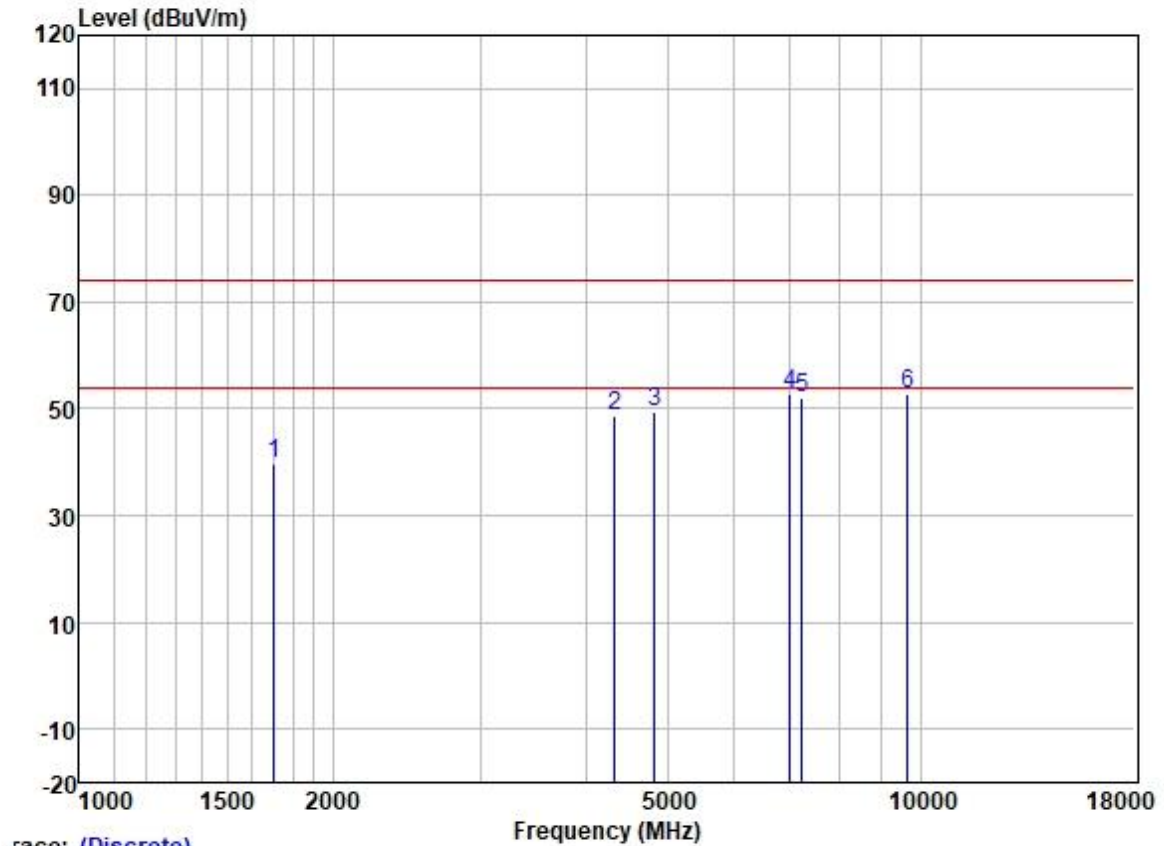
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	52.45	25.65	2.80	37.93	42.97	74.00	-31.03	VERTICAL	Peak
2	4443.453	50.52	30.73	4.83	36.81	49.27	74.00	-24.73	VERTICAL	Peak
3	4924.000	50.64	31.62	5.60	36.84	51.02	74.00	-22.98	VERTICAL	Peak
4	6303.890	51.26	33.44	5.97	36.96	53.71	74.00	-20.29	VERTICAL	Peak
5	7386.000	47.93	36.17	6.19	37.45	52.84	74.00	-21.16	VERTICAL	Peak
6	9848.000	44.15	38.58	6.99	37.41	52.31	74.00	-21.69	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	49.26	25.65	2.80	37.93	39.78	74.00	-34.22	HORIZONTAL	Peak
2	4169.698	51.44	30.09	4.60	36.80	49.33	74.00	-24.67	HORIZONTAL	Peak
3	4824.000	49.39	31.45	5.42	36.83	49.43	74.00	-24.57	HORIZONTAL	Peak
4	6756.708	49.25	34.56	5.82	37.10	52.53	74.00	-21.47	HORIZONTAL	Peak
5	7236.000	48.33	35.70	6.03	37.39	52.67	74.00	-21.33	HORIZONTAL	Peak
6	9648.000	44.17	38.40	7.06	37.42	52.21	74.00	-21.79	HORIZONTAL	Peak

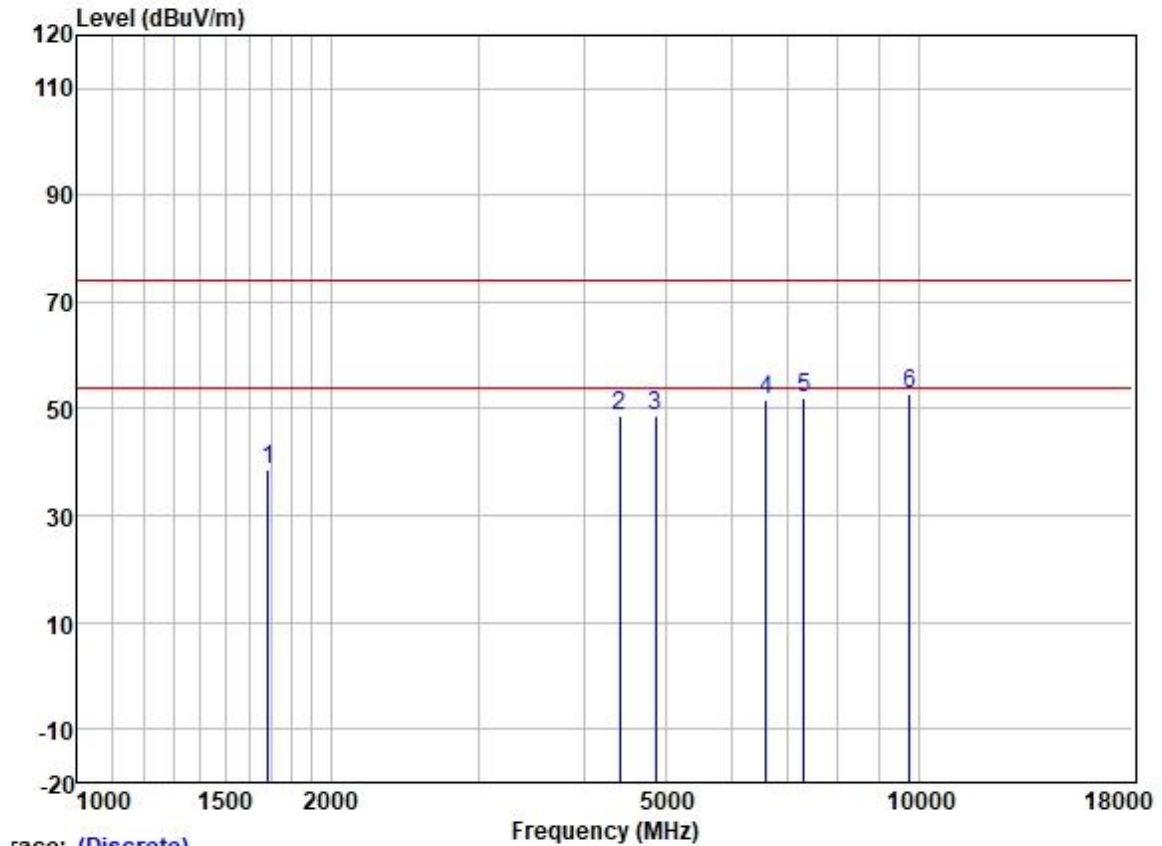
Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	49.10	25.72	2.80	37.89	39.73	74.00	-34.27	VERTICAL	Peak
2	4329.354	50.46	30.54	4.67	36.81	48.86	74.00	-25.14	VERTICAL	Peak
3	4824.000	49.23	31.45	5.42	36.83	49.27	74.00	-24.73	VERTICAL	Peak
4	6995.172	49.15	35.00	5.81	37.25	52.71	74.00	-21.29	VERTICAL	Peak
5	7236.000	47.72	35.70	6.03	37.39	52.06	74.00	-21.94	VERTICAL	Peak
6	9648.000	44.63	38.40	7.06	37.42	52.67	74.00	-21.33	VERTICAL	Peak

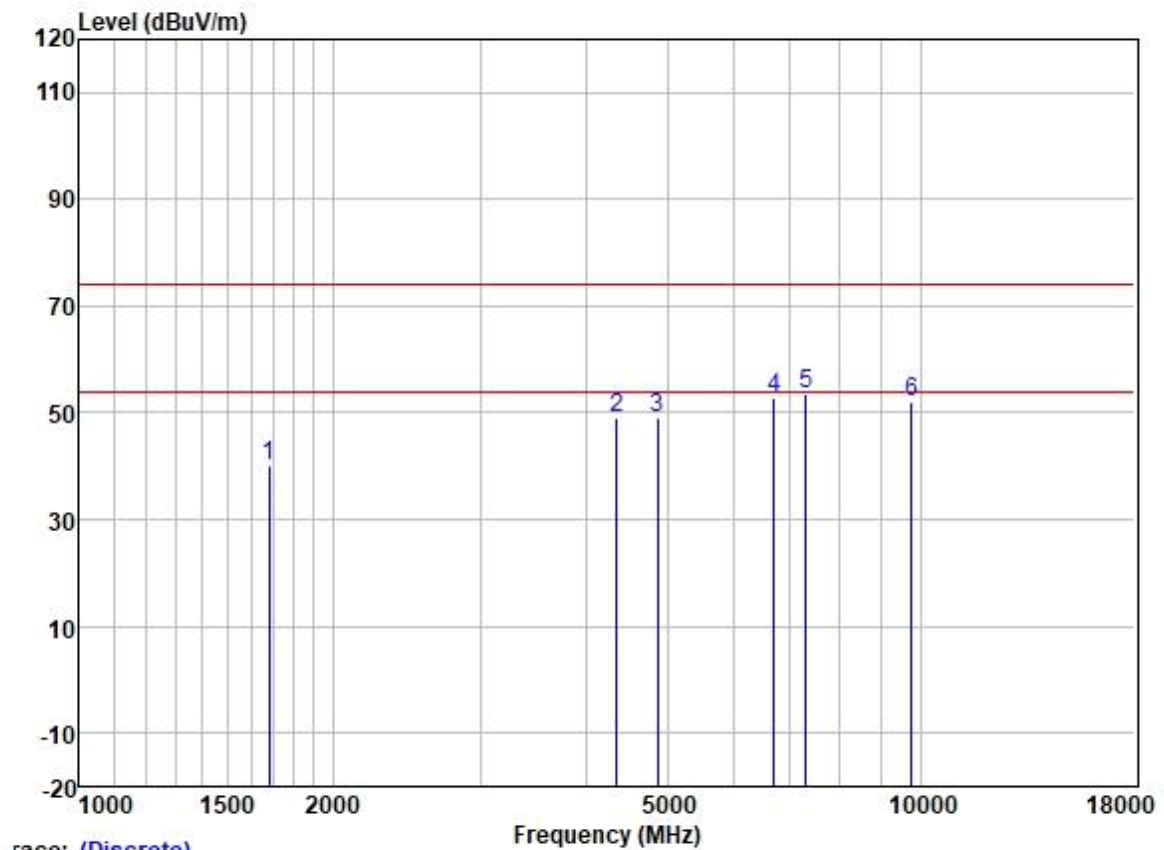
Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1687.347	48.19	25.69	2.80	37.91	38.77	74.00	-35.23	HORIZONTAL Peak
2	4417.841	50.06	30.70	4.74	36.81	48.69	74.00	-25.31	HORIZONTAL Peak
3	4874.000	48.48	31.54	5.50	36.84	48.68	74.00	-25.32	HORIZONTAL Peak
4	6583.209	48.87	34.13	5.84	37.03	51.81	74.00	-22.19	HORIZONTAL Peak
5	7311.000	47.43	35.93	6.11	37.42	52.05	74.00	-21.95	HORIZONTAL Peak
6	9748.000	44.51	38.50	7.02	37.41	52.62	74.00	-21.38	HORIZONTAL Peak

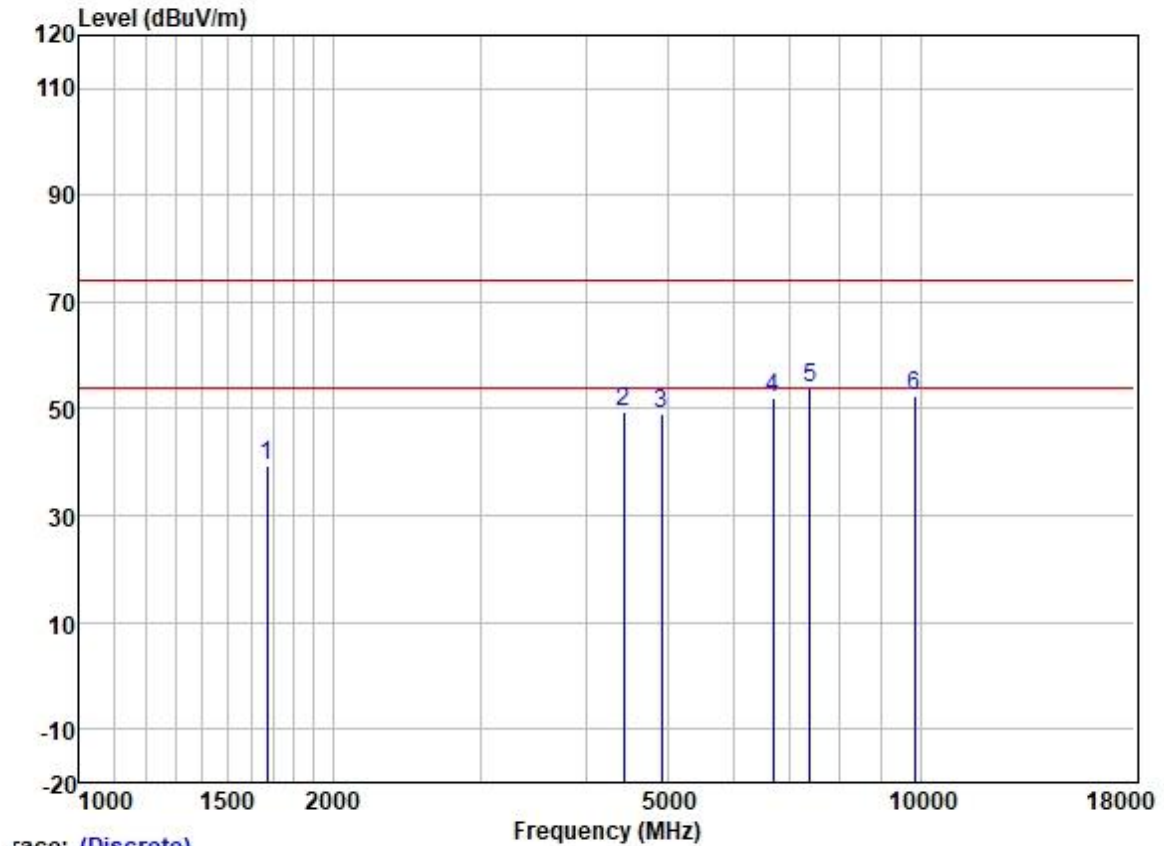
Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

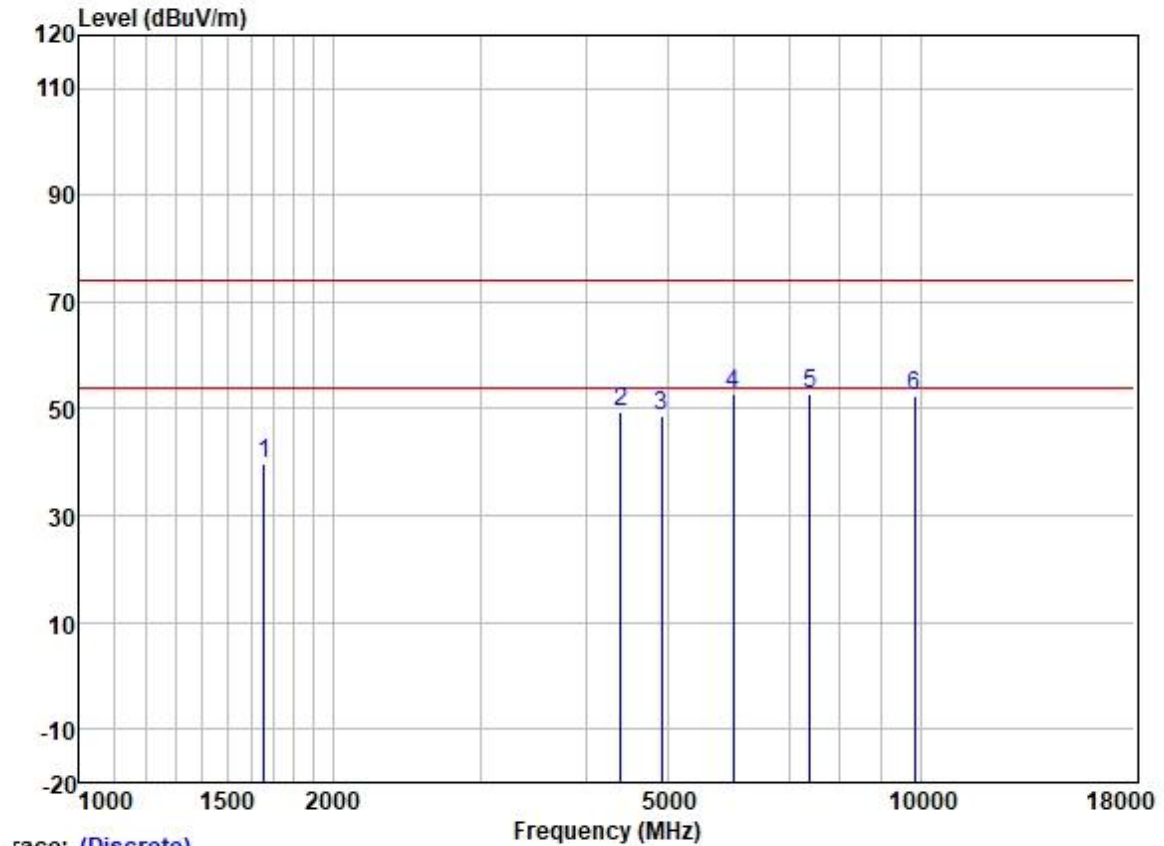
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	49.41	25.68	2.80	37.91	39.98	74.00	-34.02	VERTICAL	Peak
2	4354.454	50.45	30.59	4.68	36.81	48.91	74.00	-25.09	VERTICAL	Peak
3	4874.000	49.02	31.54	5.50	36.84	49.22	74.00	-24.78	VERTICAL	Peak
4	6698.373	49.60	34.38	5.83	37.08	52.73	74.00	-21.27	VERTICAL	Peak
5	7311.000	48.86	35.93	6.11	37.42	53.48	74.00	-20.52	VERTICAL	Peak
6	9748.000	44.01	38.50	7.02	37.41	52.12	74.00	-21.88	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



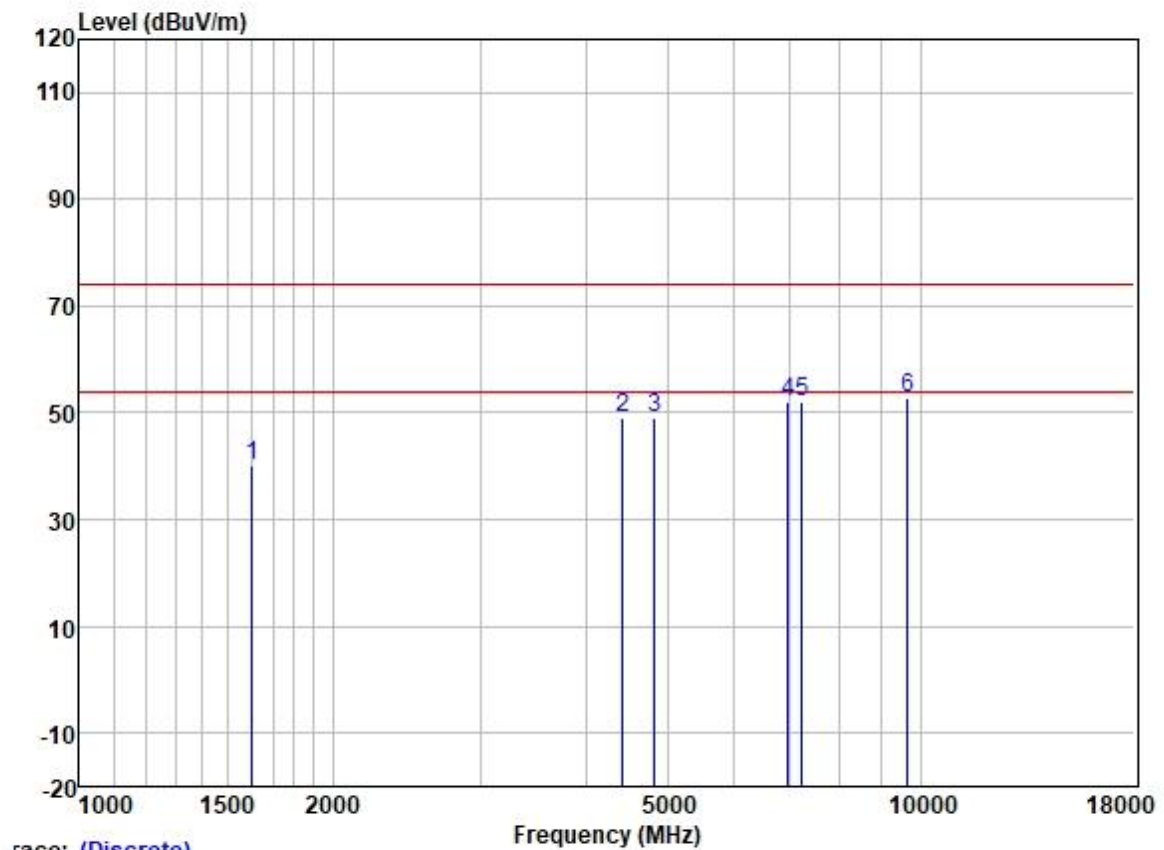
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	48.67	25.67	2.80	37.91	39.23	74.00	-34.77	HORIZONTAL	Peak
2	4443.453	50.70	30.73	4.83	36.81	49.45	74.00	-24.55	HORIZONTAL	Peak
3	4924.000	48.65	31.62	5.60	36.84	49.03	74.00	-24.97	HORIZONTAL	Peak
4	6679.040	48.95	34.33	5.83	37.07	52.04	74.00	-21.96	HORIZONTAL	Peak
5	7386.000	48.90	36.17	6.19	37.45	53.81	74.00	-20.19	HORIZONTAL	Peak
6	9848.000	44.16	38.58	6.99	37.41	52.32	74.00	-21.68	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



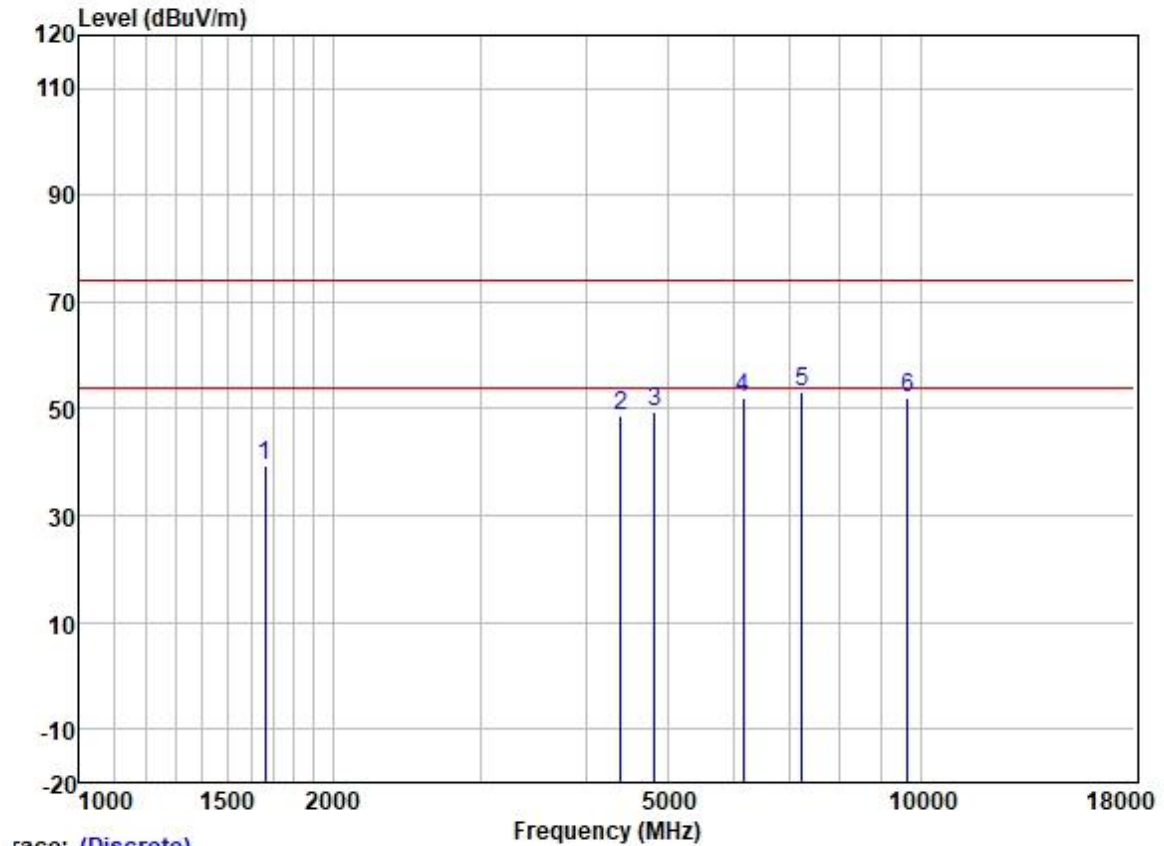
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	49.38	25.65	2.80	37.93	39.90	74.00	-34.10	VERTICAL	Peak
2	4405.090	50.91	30.68	4.70	36.81	49.48	74.00	-24.52	VERTICAL	Peak
3	4924.000	48.36	31.62	5.60	36.84	48.74	74.00	-25.26	VERTICAL	Peak
4	5984.305	51.34	32.39	6.15	36.90	52.98	74.00	-21.02	VERTICAL	Peak
5	7386.000	47.90	36.17	6.19	37.45	52.81	74.00	-21.19	VERTICAL	Peak
6	9848.000	44.23	38.58	6.99	37.41	52.39	74.00	-21.61	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



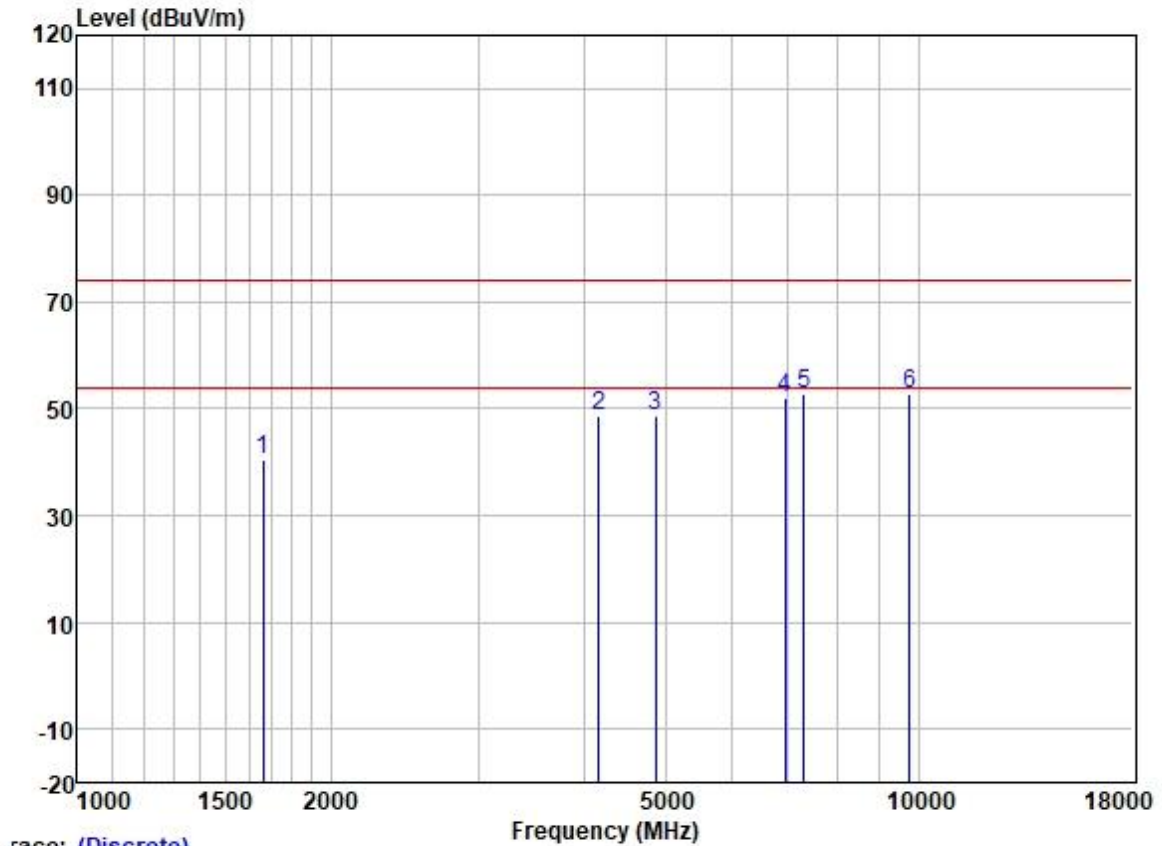
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1606.441	49.82	25.59	2.80	37.98	40.23	74.00	-33.77	HORIZONTAL	Peak
2	4430.628	50.32	30.72	4.78	36.81	49.01	74.00	-24.99	HORIZONTAL	Peak
3	4824.000	48.84	31.45	5.42	36.83	48.88	74.00	-25.12	HORIZONTAL	Peak
4	6954.852	48.68	34.95	5.81	37.21	52.23	74.00	-21.77	HORIZONTAL	Peak
5	7236.000	47.87	35.70	6.03	37.39	52.21	74.00	-21.79	HORIZONTAL	Peak
6	9648.000	44.65	38.40	7.06	37.42	52.69	74.00	-21.31	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



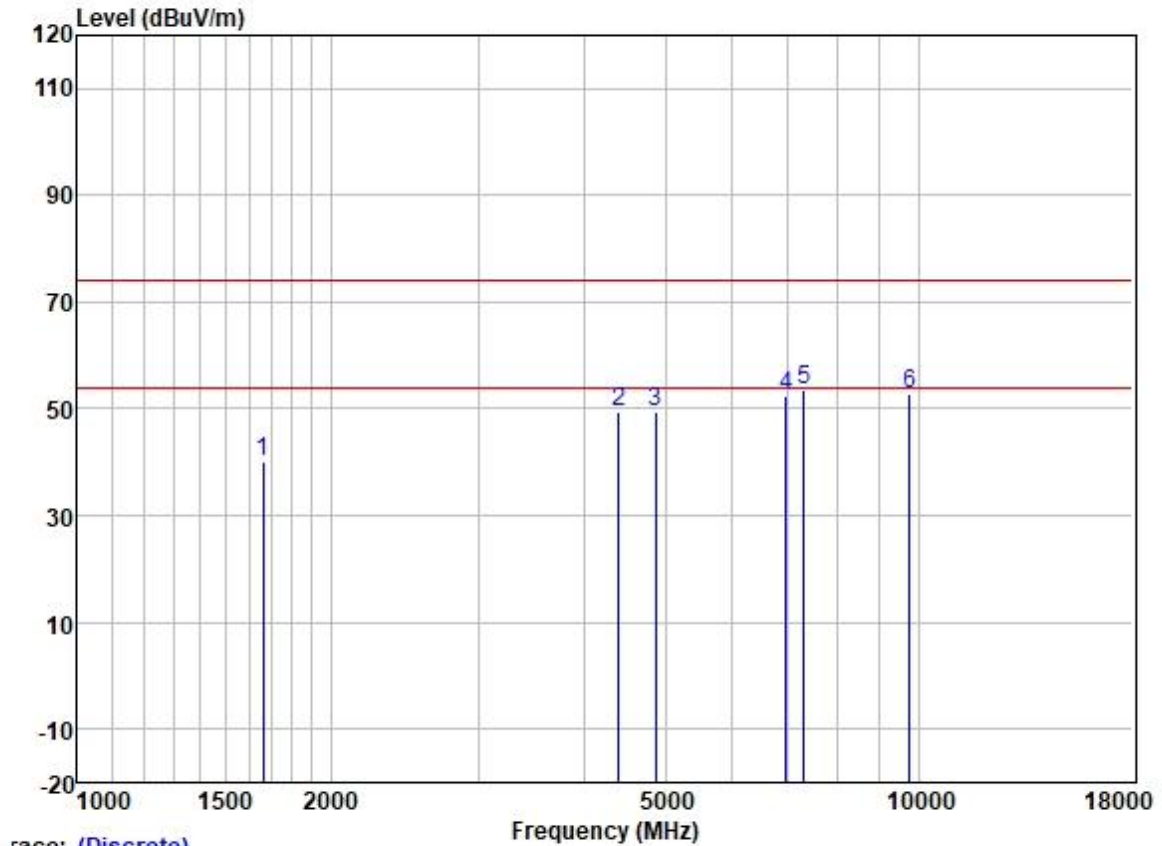
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.95	25.65	2.80	37.91	39.49	74.00	-34.51	VERTICAL	Peak
2	4405.090	50.27	30.68	4.70	36.81	48.84	74.00	-25.16	VERTICAL	Peak
3	4824.000	49.28	31.45	5.42	36.83	49.32	74.00	-24.68	VERTICAL	Peak
4	6159.797	50.06	32.83	6.10	36.93	52.06	74.00	-21.94	VERTICAL	Peak
5	7236.000	48.91	35.70	6.03	37.39	53.25	74.00	-20.75	VERTICAL	Peak
6	9648.000	44.07	38.40	7.06	37.42	52.11	74.00	-21.89	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



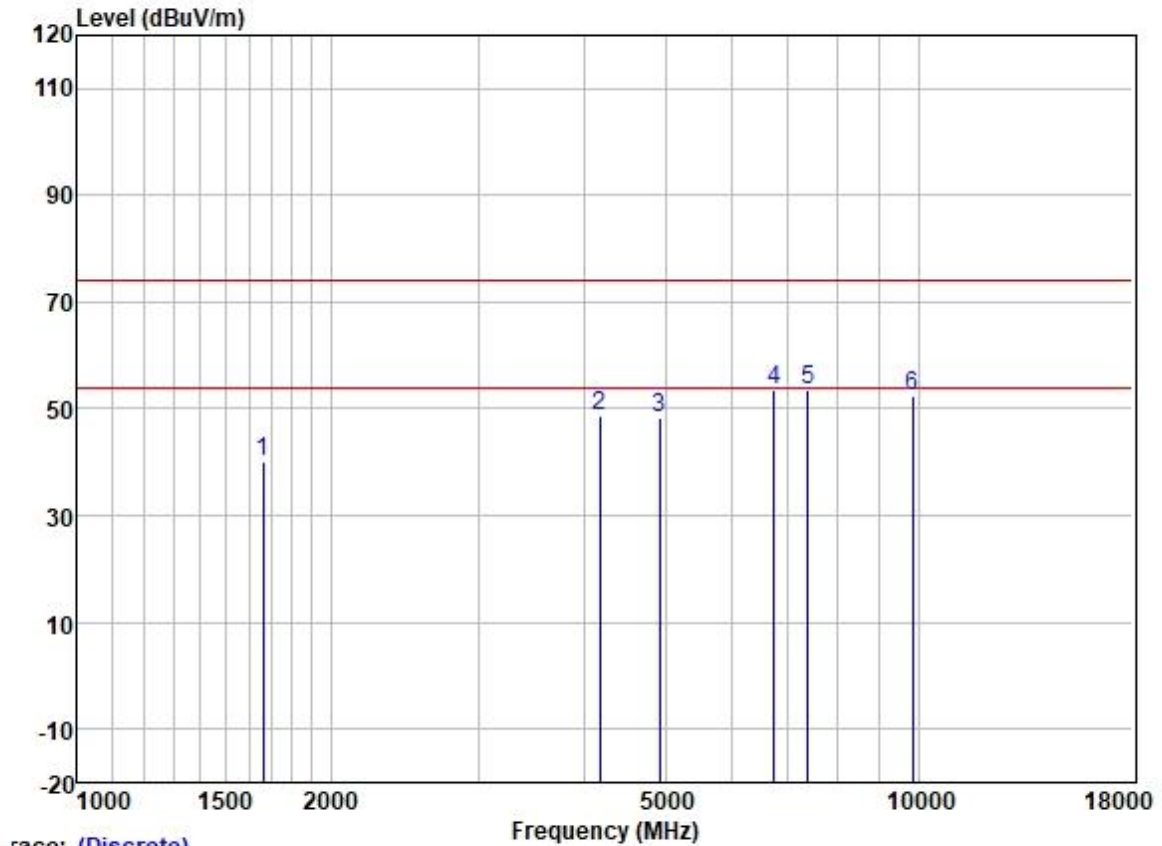
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1663.137	49.84	25.65	2.80	37.91	40.38	74.00	-33.62	HORIZONTAL Peak
2	4169.698	50.78	30.09	4.60	36.80	48.67	74.00	-25.33	HORIZONTAL Peak
3	4874.000	48.46	31.54	5.50	36.84	48.66	74.00	-25.34	HORIZONTAL Peak
4	6934.778	48.43	34.92	5.81	37.19	51.97	74.00	-22.03	HORIZONTAL Peak
5	7311.000	48.15	35.93	6.11	37.42	52.77	74.00	-21.23	HORIZONTAL Peak
6	9748.000	44.87	38.50	7.02	37.41	52.98	74.00	-21.02	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	49.49	25.65	2.80	37.91	40.03	74.00	-33.97	VERTICAL	Peak
2	4405.090	50.69	30.68	4.70	36.81	49.26	74.00	-24.74	VERTICAL	Peak
3	4874.000	49.16	31.54	5.50	36.84	49.36	74.00	-24.64	VERTICAL	Peak
4	6954.852	48.83	34.95	5.81	37.21	52.38	74.00	-21.62	VERTICAL	Peak
5	7311.000	49.04	35.93	6.11	37.42	53.66	74.00	-20.34	VERTICAL	Peak
6	9748.000	44.65	38.50	7.02	37.41	52.76	74.00	-21.24	VERTICAL	Peak

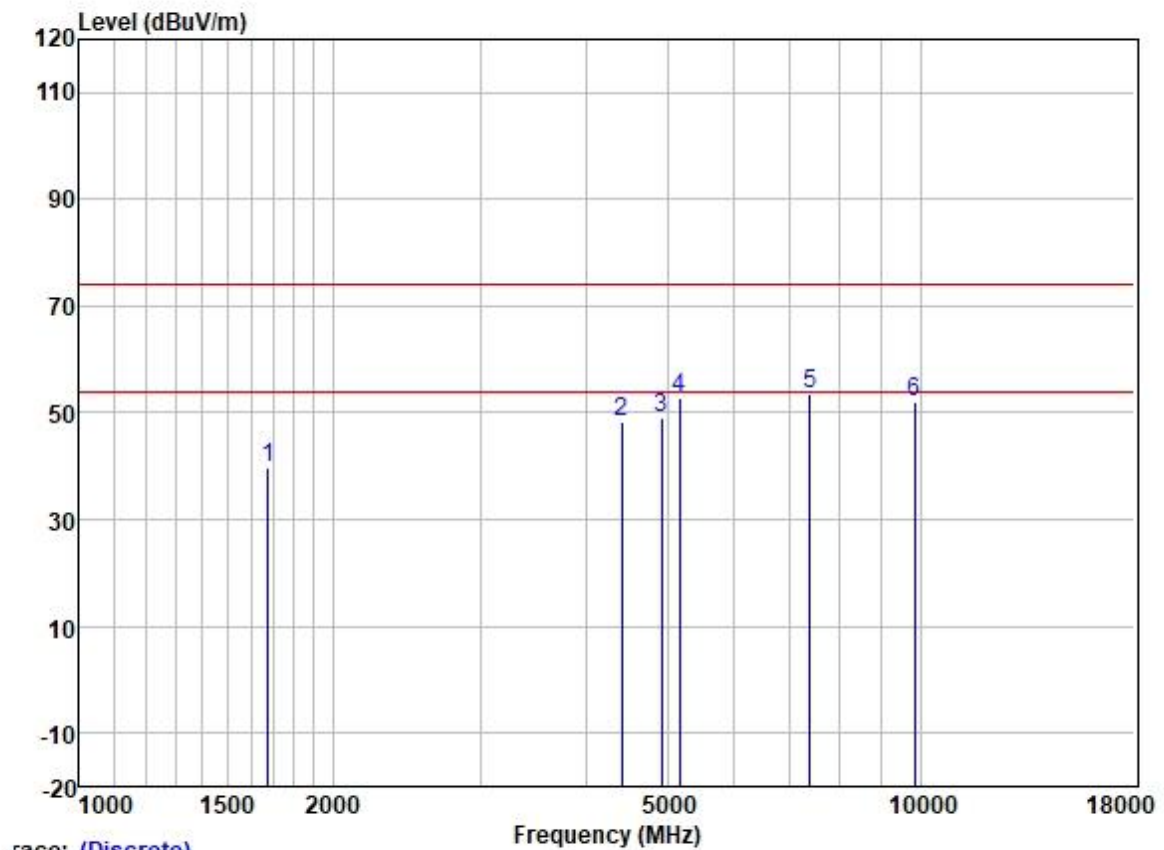
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	49.56	25.65	2.80	37.91	40.10	74.00	-33.90	HORIZONTAL	Peak
2	4181.768	50.64	30.12	4.60	36.80	48.56	74.00	-25.44	HORIZONTAL	Peak
3	4924.000	48.00	31.62	5.60	36.84	48.38	74.00	-25.62	HORIZONTAL	Peak
4	6737.207	50.16	34.50	5.82	37.09	53.39	74.00	-20.61	HORIZONTAL	Peak
5	7386.000	48.56	36.17	6.19	37.45	53.47	74.00	-20.53	HORIZONTAL	Peak
6	9848.000	44.10	38.58	6.99	37.41	52.26	74.00	-21.74	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	49.22	25.68	2.80	37.91	39.79	74.00	-34.21	VERTICAL	Peak
2	4417.841	49.77	30.70	4.74	36.81	48.40	74.00	-25.60	VERTICAL	Peak
3	4924.000	48.71	31.62	5.60	36.84	49.09	74.00	-24.91	VERTICAL	Peak
4	5164.102	52.18	31.73	5.61	36.87	52.65	74.00	-21.35	VERTICAL	Peak
5	7386.000	48.56	36.17	6.19	37.45	53.47	74.00	-20.53	VERTICAL	Peak
6	9848.000	43.90	38.58	6.99	37.41	52.06	74.00	-21.94	VERTICAL	Peak

8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR2209001154AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2209001154AT

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com