

TEST REPORT

Application No.: GZCR2205000598AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Mobile Tablet
Model No.: 313T/MD, 313xxxxx(x= 0-9, A-Z, - or null, or ., or /) ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



FCC ID: YE3600-AX210NG
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-05-16
Date of Test: 2022-05-17 to 2022-05-30
Date of Issue: 2022-06-08

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

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



Kobe Jian
EMC Laboratory Manager



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

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
 No.198 Kaizhu Road, Solentech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.ssgroup.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

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-08		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 E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	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:

Model No.: 313T/MD, 313xxxx(x= 0-9, A-Z, - or null, or ., or /)

Only the model 313T/MD was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX210NG, Granted on 05/06/2022.

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: PD9AX210NG was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application is used a new antenna of the same type and higher gain than the original certified module. Also, the band above 6GHz(5925-7125MHz) is blocked by the software for the module, and it 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 313T/MD and shown the data in this report.

3 Contents

	Page
1 Cover Page	1
2 Test Summary.....	3
3 Contents	5
4 General Information.....	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units.....	9
4.3 Measurement Uncertainty	9
4.4 Test Location	9
4.5 Test Facility.....	10
4.6 Deviation from Standards.....	10
4.7 Abnormalities from Standard Conditions.....	10
5 Equipment List	11
6 Radio Spectrum Technical Requirement.....	13
6.1 Antenna Requirement	13
6.1.1 Test Requirement:	13
6.1.2 Conclusion	13
6.2 Transmission in the Absence of Data	13
6.2.1 Test Requirement:	13
6.2.2 Conclusion	13
7 Radio Spectrum Matter Test Results.....	14
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	14
7.1.1 E.U.T. Operation.....	14
7.1.2 Test Mode Description	14
7.1.3 Test Setup Diagram	16
7.1.4 Measurement Procedure and Data.....	16
7.2 Radiated Emissions which fall in the restricted bands	19
7.2.1 E.U.T. Operation.....	19
7.2.2 Test Mode Description	20
7.2.3 Test Setup Diagram	23
7.2.4 Measurement Procedure and Data.....	24
7.3 Radiated Emissions (below 1GHz)	169
7.3.1 E.U.T. Operation.....	169
7.3.2 Test Mode Description	170
7.3.3 Test Setup Diagram	173
7.3.4 Measurement Procedure and Data.....	174
7.4 Radiated Emissions (above 1GHz).....	177
7.4.1 E.U.T. Operation.....	177
7.4.2 Test Mode Description	178
7.4.3 Test Setup Diagram	181
7.4.4 Measurement Procedure and Data.....	182
8 Test Setup Photo.....	361



9	EUT Constructional Details (EUT Photos).....	361
----------	---	------------

4 General Information

4.1 Details of E.U.T.

Power supply:

Medical AC Adapter1

Model: EM10681V

AC Input: AC 100-240V, 2.0-1.0A, 50-60Hz

Output: DC 19V, 3.78A, 72W

Medical AC Adapter2

Model: EM11011M-190

AC Input: AC 100-240V, 2.0-1.0A, 50-60Hz

Output: DC 19.0V, 6.31A, 120.0W

Rechargeable Lithium-Ion Polymer Battery

Model: ACC-006-60K(3ICP9/36/115)

Rated Capacity: 5400mAh

Voltage: DC 11.4V

Watt-Hour: 61.56Wh

Max Charge Voltage: 13.05V

Wall Mount Cradle1: ACC-008-113MD(with R1.1 PCBA)

Wall Mount Cradle2: ACC-008-113MD(with R1.2 PCBA)

Desktop Cradle: ACC-008-72HMD

Keyboard Cradle: ACC-KB13TS-M1

Test Voltage:

AC 120V, 60Hz

Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);

Cable(s):

DC cable: 180cm with a ferrite core

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n/ac/ax(HT20)	5180-5240	4
		802.11n/ac/ax(HT40)	5190-5230	2
		802.11ac/ax(HT80)	5210	1
		802.11ac/ax(HT160)	5250	1
	UNII Band II-A	802.11a/n/ac/ax(HT20)	5260-5320	4
		802.11n/ac/ax(HT40)	5270-5310	2
		802.11ac/ax(HT80)	5290	1
	UNII Band II-C	802.11a/n/ac/ax(HT20)	5500-5720	12
		802.11n/ac/ax(HT40)	5510-5710	6
		802.11ac/ax(HT80)	5530-5690	3
		802.11ac/ax(HT160)	5570	1
	UNII Band III	802.11a/n/ac/ax(HT20)	5745-5865	7
		802.11n/ac/ax(HT40)	5755-5835	3
		802.11ac/ax(HT80)	5775	1



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-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.

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

Modulation Type:	802.11a: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM(QPSK, BPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
DFS Function:	Slave without radar detection
TPC Function:	Not support
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 3.2dBi, Antenna2: 6.8dBi Note: MIMO for 802.11n/ac/ax

Channel list for 802.11a/n(HT20)/ac(HT20)/ax(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	60	5300MHz	116	5580MHz	140	5700MHz
40	5200MHz	64	5320MHz	120	5600MHz	149	5745MHz
44	5220MHz	100	5500MHz	124	5620MHz	153	5765MHz
48	5240MHz	104	5520MHz	128	5640MHz	157	5785MHz
52	5260MHz	108	5540MHz	132	5660MHz	161	5805MHz
56	5280MHz	112	5560MHz	136	5680MHz	165	5825MHz
/						169	5845MHz
						173	5865MHz

Channel list for 802.11n(HT40)/ac(HT40)/ax(HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	62	5310MHz	118	5590MHz	151	5755MHz
46	5230MHz	102	5510MHz	126	5630MHz	159	5795MHz
54	5270MHz	110	5550MHz	134	5670MHz	167	5835MHz

Channel list for 802.11ac(HT80)/ax(HT80)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	106	5530MHz	122	5610MHz	155	5775MHz
58	5290MHz	/					

Channel list for 802.11ac(HT160)/ax(HT160)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250MHz	114	5570MHz	/			



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-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.

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)	$\pm 2.76\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 5.00\text{dB}$ (30MHz-1GHz; 3m); $\pm 5.12\text{dB}$ (1GHz-6GHz); $\pm 5.38\text{dB}$ (6GHz-18GHz); $\pm 5.61\text{dB}$ (18GHz-40GHz)
Radiated Emissions (below 1GHz)	$\pm 5.00\text{dB}$ (30MHz-1GHz; 3m); $\pm 4.38\text{dB}$ (30MHz-1GHz; 10m);
Radiated Emissions (above 1GHz)	$\pm 5.12\text{dB}$ (1GHz-6GHz); $\pm 5.38\text{dB}$ (6GHz-18GHz); $\pm 5.61\text{dB}$ (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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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-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.

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

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	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31

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	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
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
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

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	2020-09-09	2022-09-08



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

Trilog Broadband Antenna (25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2022-03-03	2025-03-02
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
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
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Active Loop Antenna	Fischer Custom Communications Inc.	F-1000-4-8- 9/10-L-1M	EMC0704	2022-04-01	2025-03-31

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	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
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
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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-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.

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
 No.198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.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

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 3.2dBi, antenna2 is 6.8dBi.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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 & 15.407 b(6)

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 48.4 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	Charge + TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	20	Charge + TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	22	Charge + TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of



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-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.

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 Kazhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Technical Services 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

Pre-scan 24

IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Charge + TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 33

Charge + TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 35

Charge + TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 37

Charge + TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80).

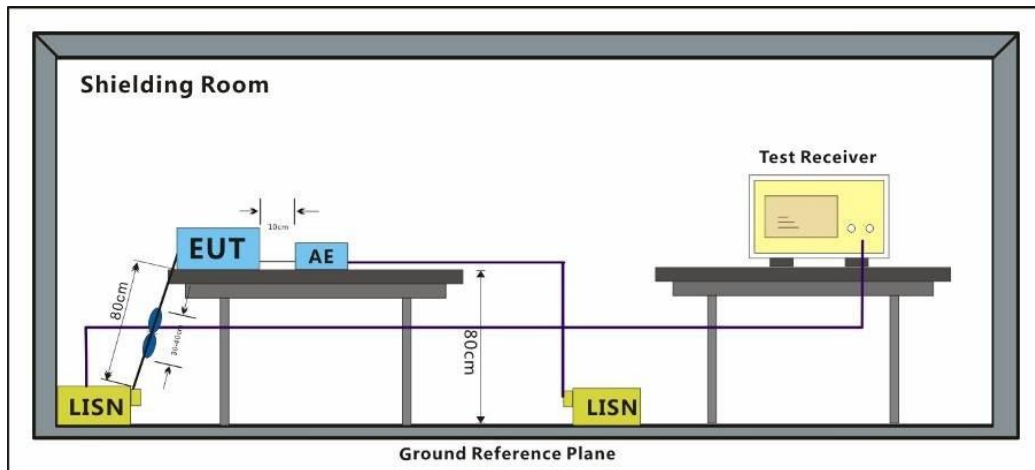


Pre-scan 39

802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

Charge + TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

7.1.3 Test Setup Diagram

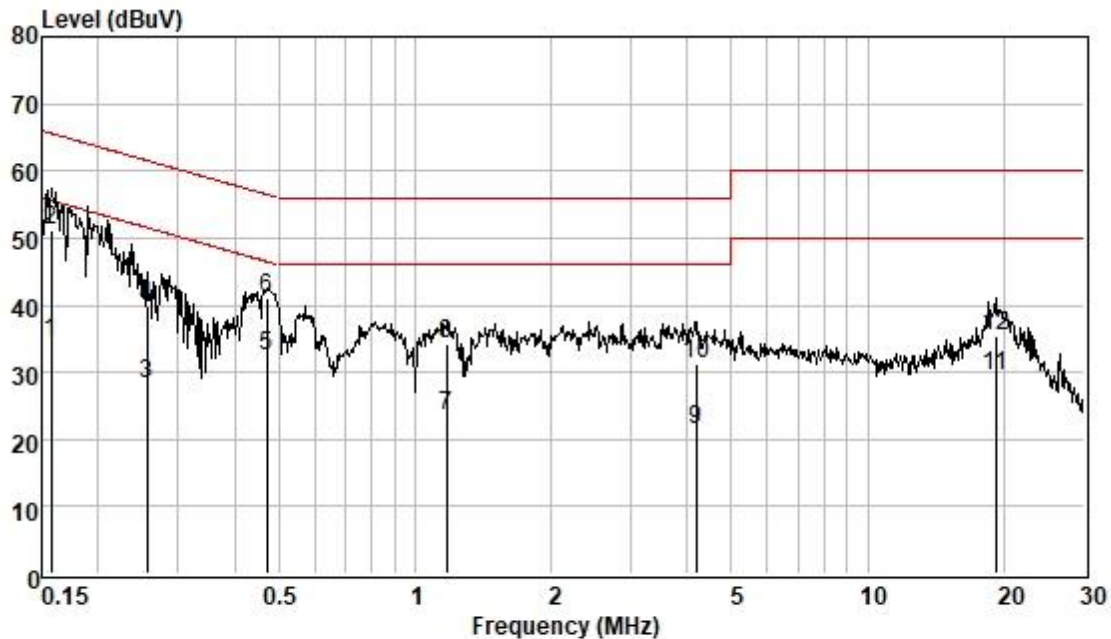


7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

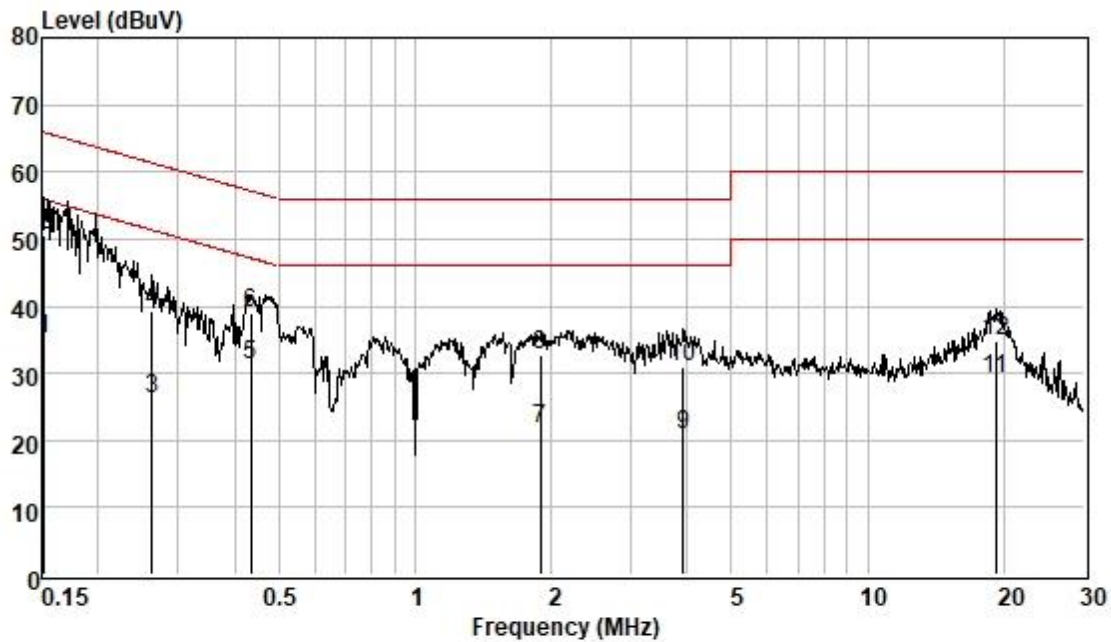
Test Mode: 18; Line: Live line



Pol : LINE
Mode :
Model :

	Freque MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.157	24.99	0.06	9.54	34.59	55.60	-21.01	Average
2	0.157	41.59	0.06	9.54	51.19	65.60	-14.41	QP
3	0.256	18.75	0.06	9.57	28.38	51.56	-23.18	Average
4	0.256	30.30	0.06	9.57	39.93	61.56	-21.63	QP
5	0.471	22.76	0.07	9.59	32.42	46.49	-14.07	Average
6	0.471	31.52	0.07	9.59	41.18	56.49	-15.31	QP
7	1.172	13.96	0.08	9.60	23.64	46.00	-22.36	Average
8	1.172	24.46	0.08	9.60	34.14	56.00	-21.86	QP
9	4.180	11.50	0.17	9.64	21.31	46.00	-24.69	Average
10	4.180	21.44	0.17	9.64	31.25	56.00	-24.75	QP
11	19.122	19.36	0.36	9.84	29.56	50.00	-20.44	Average
12	19.122	25.19	0.36	9.84	35.39	60.00	-24.61	QP

Test Mode: 18; Line: Neutral Line

Pol : NEUTRAL
Mode :
Model :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	25.40	0.06	9.53	34.99	55.91	-20.92	Average
2	0.152	40.87	0.06	9.53	50.46	65.91	-15.45	QP
3	0.263	16.58	0.06	9.56	26.20	51.34	-25.14	Average
4	0.263	29.63	0.06	9.56	39.25	61.34	-22.09	QP
5	0.435	21.55	0.06	9.58	31.19	47.15	-15.96	Average
6	0.435	29.32	0.06	9.58	38.96	57.15	-18.19	QP
7	1.888	12.07	0.11	9.59	21.77	46.00	-24.23	Average
8	1.888	22.93	0.11	9.59	32.63	56.00	-23.37	QP
9	3.901	10.98	0.16	9.63	20.77	46.00	-25.23	Average
10	3.901	21.05	0.16	9.63	30.84	56.00	-25.16	QP
11	19.122	18.76	0.36	9.89	29.01	50.00	-20.99	Average
12	19.122	24.58	0.36	9.89	34.83	60.00	-25.17	QP

7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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: 20.2 °C

Humidity: 53.3 % RH

Atmospheric Pressure: 1015 mbar



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-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.

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

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Final test	18	Charge + TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	19	TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Final test	20	Charge + TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).
Pre-scan	21	TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a;



data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Final test 22

Charge + TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 23

TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Final test 24

Charge + TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter1).

Pre-scan 32

TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the



Pre-scan	33	<p>report(Adapter2).</p> <p>Charge + TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).</p>
Pre-scan	34	<p>TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).</p>
Pre-scan	35	<p>Charge + TX mode (U-NII-2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).</p>
Pre-scan	36	<p>TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).</p>
Pre-scan	37	<p>Charge + TX mode (U-NII-2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ VHT0 is the worst case of IEEE</p>

Pre-scan 38

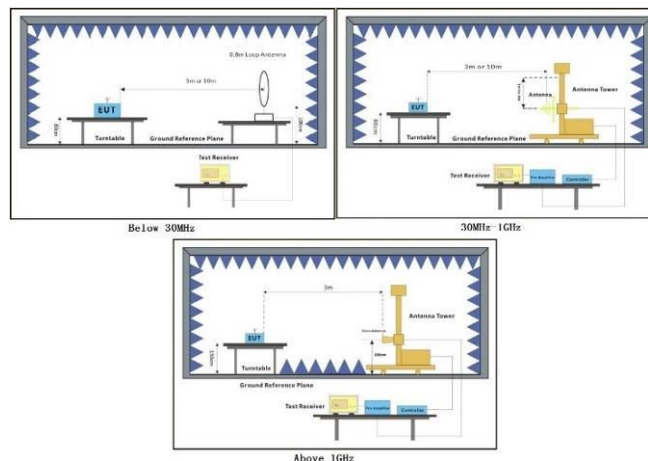
802.11ac(HT160); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT160). Only the data of worst case is recorded in the report(Adapter2).

TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

Pre-scan 39

Charge + TX mode (U-NII-3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ VHT0 is the worst case of IEEE 802.11ac(HT80); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT80). Only the data of worst case is recorded in the report(Adapter2).

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the 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.

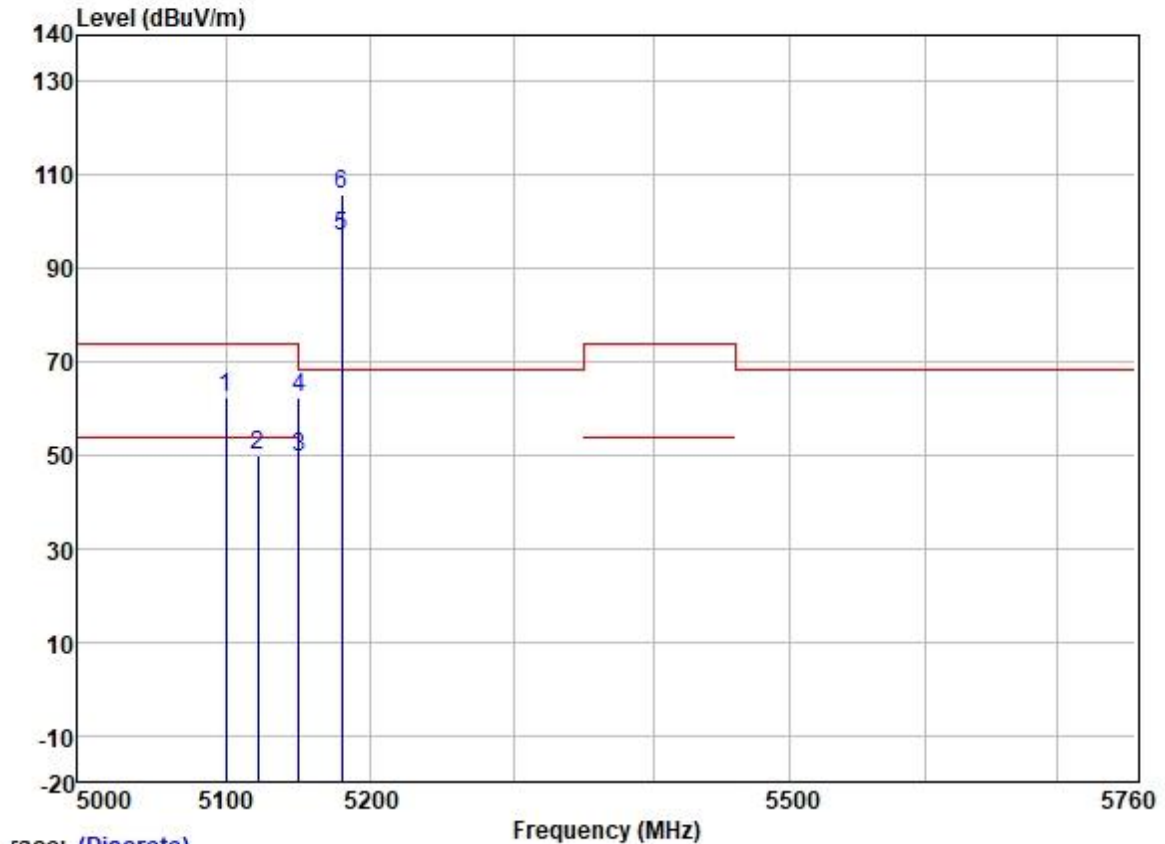
Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2: For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



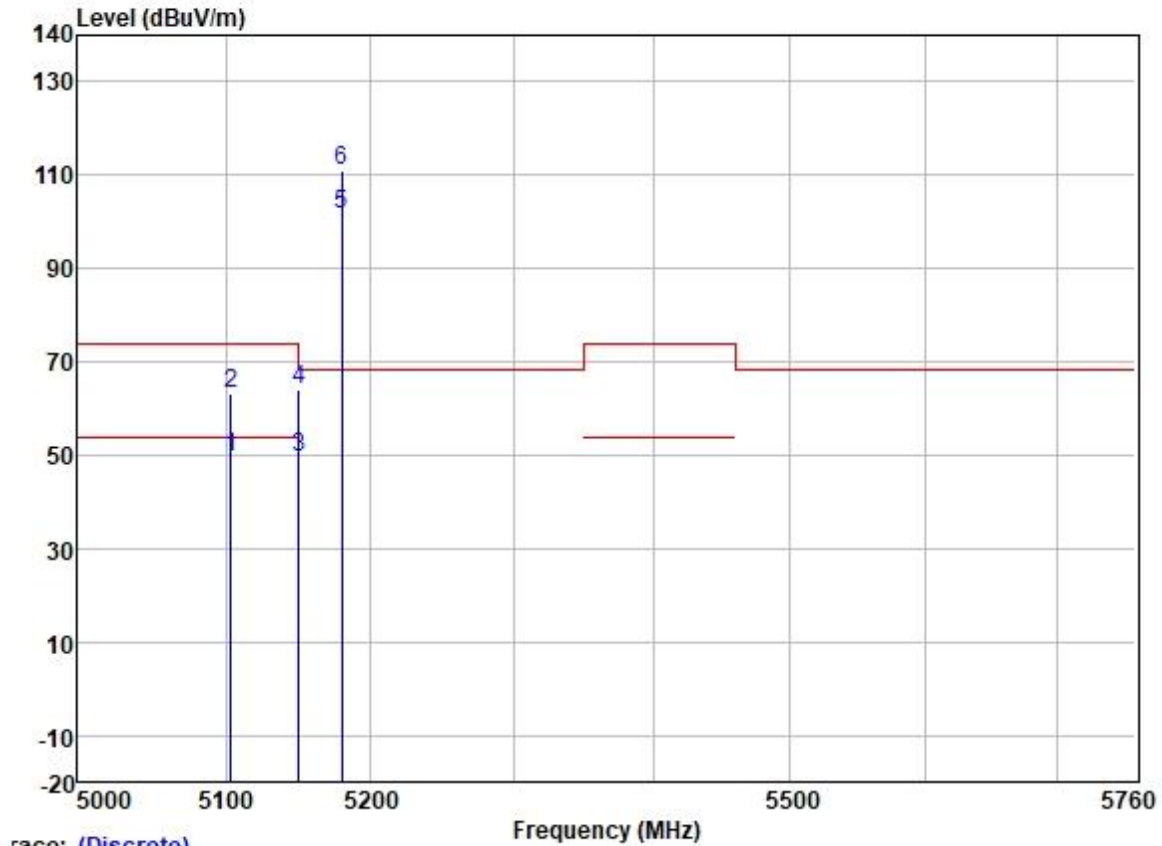
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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.
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: 18; Polarity: Horizontal; Modulation:802.11a; 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	5100.297	62.00	31.72	5.65	36.86	62.51	74.00	-11.49	HORIZONTAL	Peak
2	5121.734	49.38	31.72	5.64	36.86	49.88	54.00	-4.12	HORIZONTAL	Average
3	5149.980	48.95	31.72	5.62	36.86	49.43	54.00	-4.57	HORIZONTAL	Average
4	5149.980	61.99	31.72	5.62	36.86	62.47	74.00	-11.53	HORIZONTAL	Peak
5	5180.000	96.41	31.73	5.61	36.87	96.88	-----	-----	HORIZONTAL	Average
6 *	5180.000	105.48	31.73	5.61	36.87	105.95	68.20	37.75	HORIZONTAL	Peak

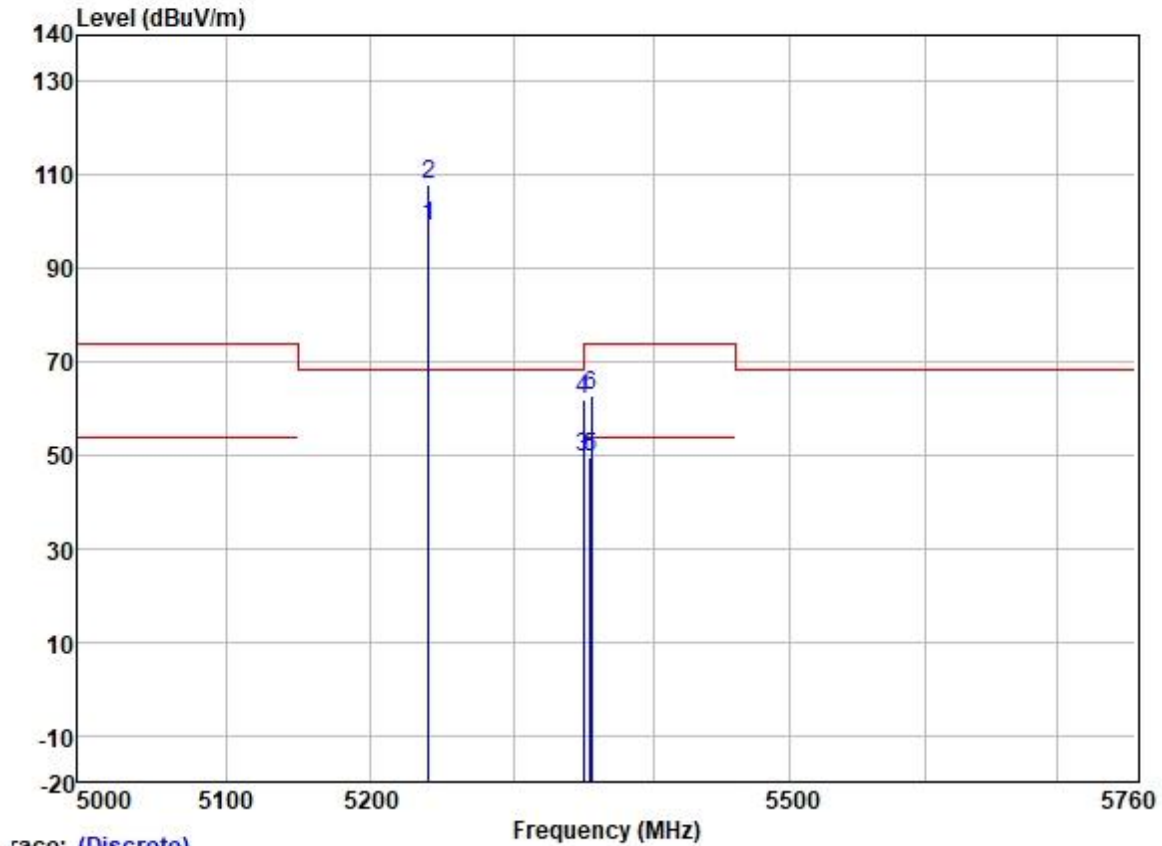
Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5103.368	49.23	31.72	5.65	36.86	49.74	54.00	-4.26	VERTICAL Average
2	5103.368	62.64	31.72	5.65	36.86	63.15	74.00	-10.85	VERTICAL Peak
3	5149.980	49.01	31.72	5.62	36.86	49.49	54.00	-4.51	VERTICAL Average
4	5149.980	63.49	31.72	5.62	36.86	63.97	74.00	-10.03	VERTICAL Peak
5	5180.000	101.16	31.73	5.61	36.87	101.63	-----	-----	VERTICAL Average
6 *	5180.000	110.67	31.73	5.61	36.87	111.14	68.20	42.94	VERTICAL Peak

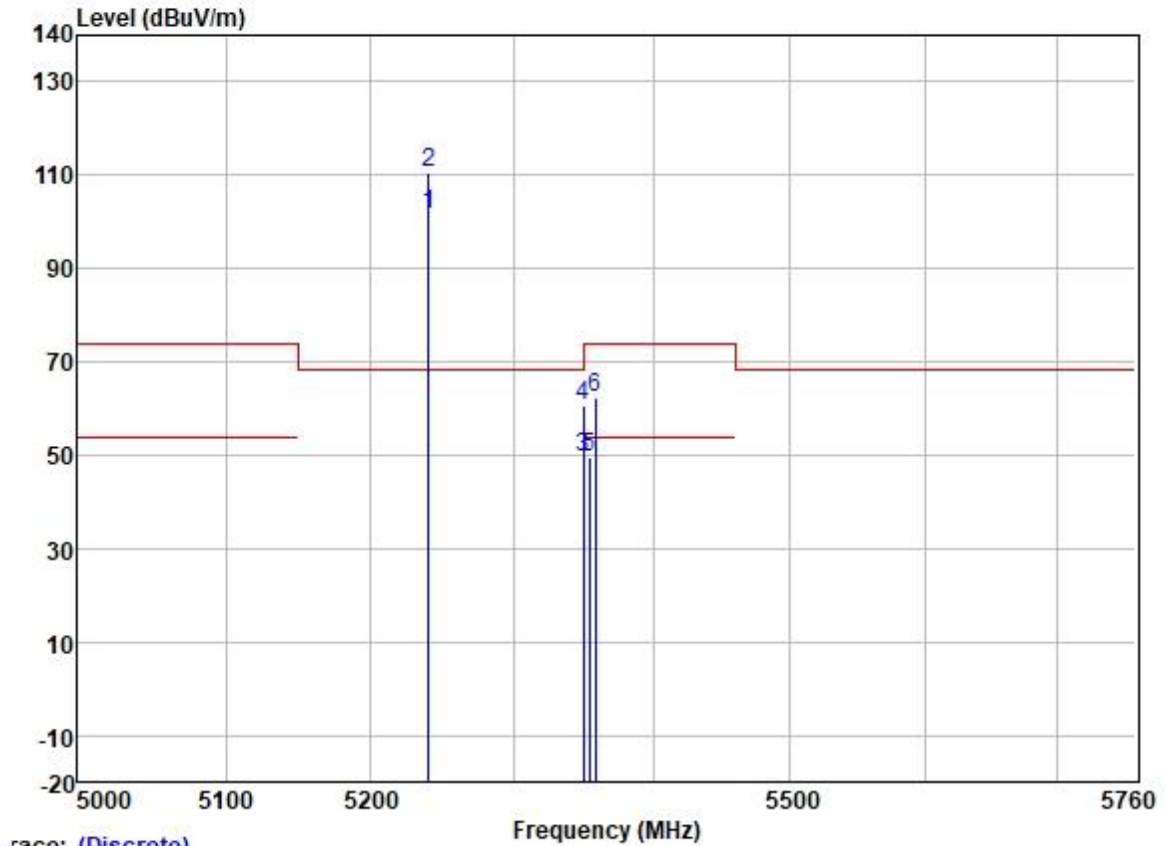
Test Mode: 18; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	98.55	31.75	5.74	36.87	99.17	-----	-----	HORIZONTAL Average
2 *	5240.000	107.57	31.75	5.74	36.87	108.19	68.20	39.99	HORIZONTAL Peak
3	5350.020	48.74	31.77	6.05	36.88	49.68	54.00	-4.32	HORIZONTAL Average
4	5350.020	61.19	31.77	6.05	36.88	62.13	74.00	-11.87	HORIZONTAL Peak
5	5354.754	48.73	31.78	6.03	36.88	49.66	54.00	-4.34	HORIZONTAL Average
6	5355.746	61.74	31.78	6.03	36.88	62.67	74.00	-11.33	HORIZONTAL Peak

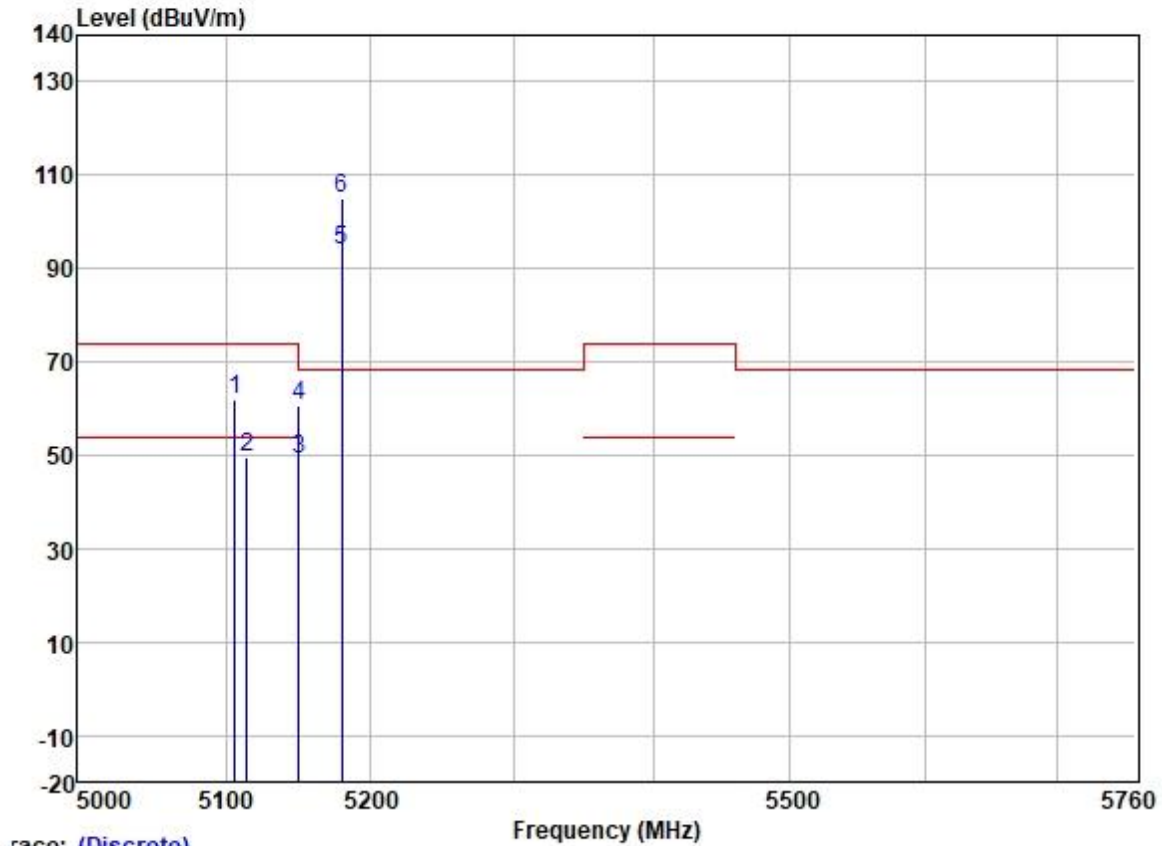
Test Mode: 18; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	100.84	31.75	5.74	36.87	101.46	-----	-----	VERTICAL Average
2 *	5240.000	109.86	31.75	5.74	36.87	110.48	68.20	42.28	VERTICAL Peak
3	5350.020	48.61	31.77	6.05	36.88	49.55	54.00	-4.45	VERTICAL Average
4	5350.020	59.88	31.77	6.05	36.88	60.82	74.00	-13.18	VERTICAL Peak
5	5354.045	48.71	31.77	6.05	36.88	49.65	54.00	-4.35	VERTICAL Average
6	5358.156	61.29	31.78	6.03	36.88	62.22	74.00	-11.78	VERTICAL Peak

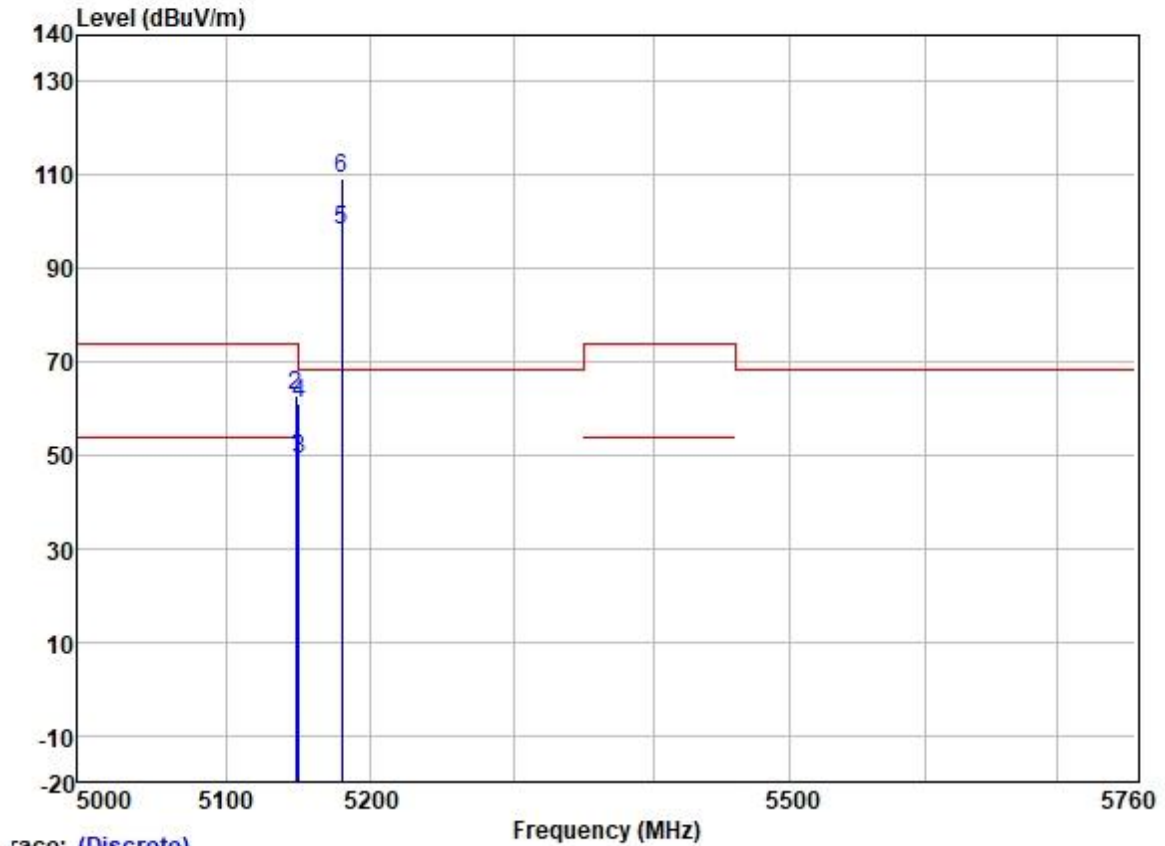
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5105.945	61.56	31.72	5.65	36.86	62.07	74.00	-11.93	HORIZONTAL Peak
2	5114.479	49.02	31.72	5.64	36.86	49.52	54.00	-4.48	HORIZONTAL Average
3	5149.980	48.64	31.72	5.62	36.86	49.12	54.00	-4.88	HORIZONTAL Average
4	5149.980	60.28	31.72	5.62	36.86	60.76	74.00	-13.24	HORIZONTAL Peak
5	5180.000	93.64	31.73	5.61	36.87	94.11	-----	-----	HORIZONTAL Average
6 *	5180.000	104.69	31.73	5.61	36.87	105.16	68.20	36.96	HORIZONTAL Peak

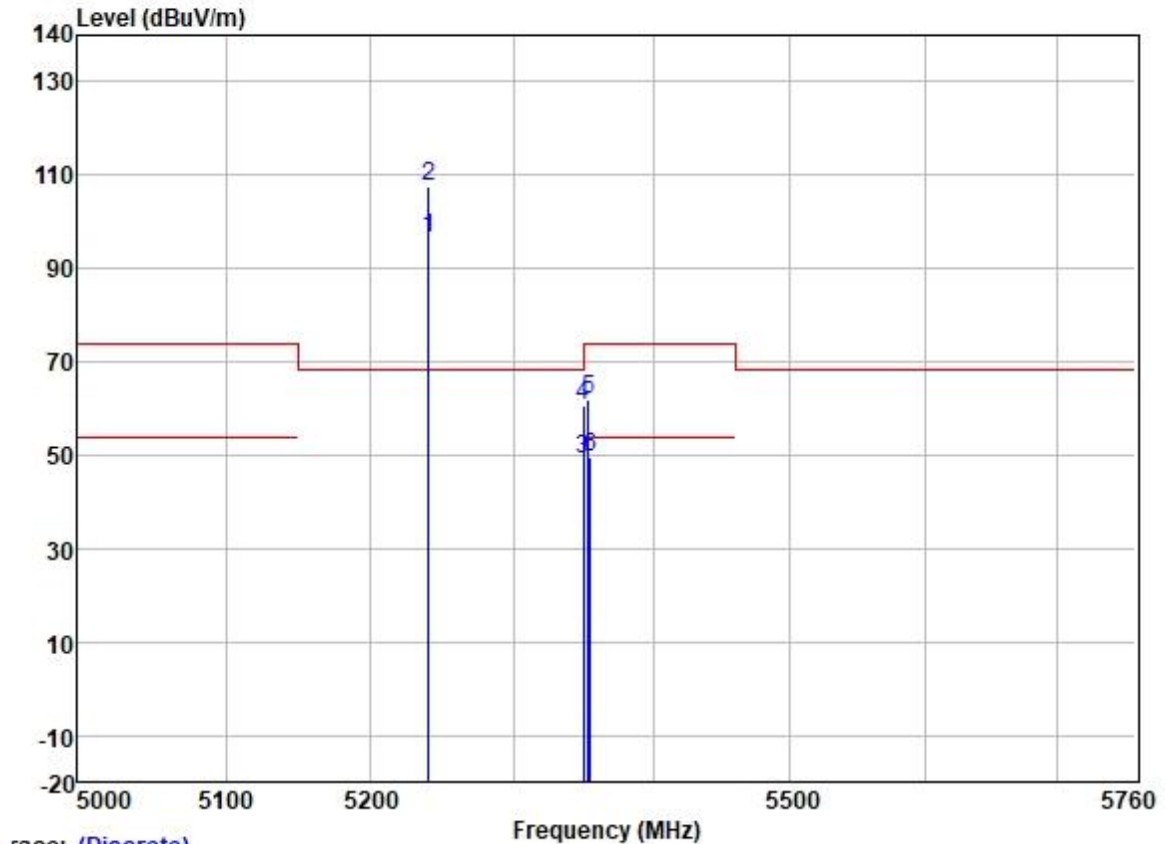
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5147.857	48.94	31.72	5.62	36.86	49.42	54.00	-4.58	VERTICAL
2	5147.857	62.33	31.72	5.62	36.86	62.81	74.00	-11.19	VERTICAL
3	5149.980	48.71	31.72	5.62	36.86	49.19	54.00	-4.81	VERTICAL
4	5149.980	60.54	31.72	5.62	36.86	61.02	74.00	-12.98	VERTICAL
5	5180.000	97.74	31.73	5.61	36.87	98.21	-----	-----	VERTICAL
6 *	5180.000	108.85	31.73	5.61	36.87	109.32	68.20	41.12	VERTICAL

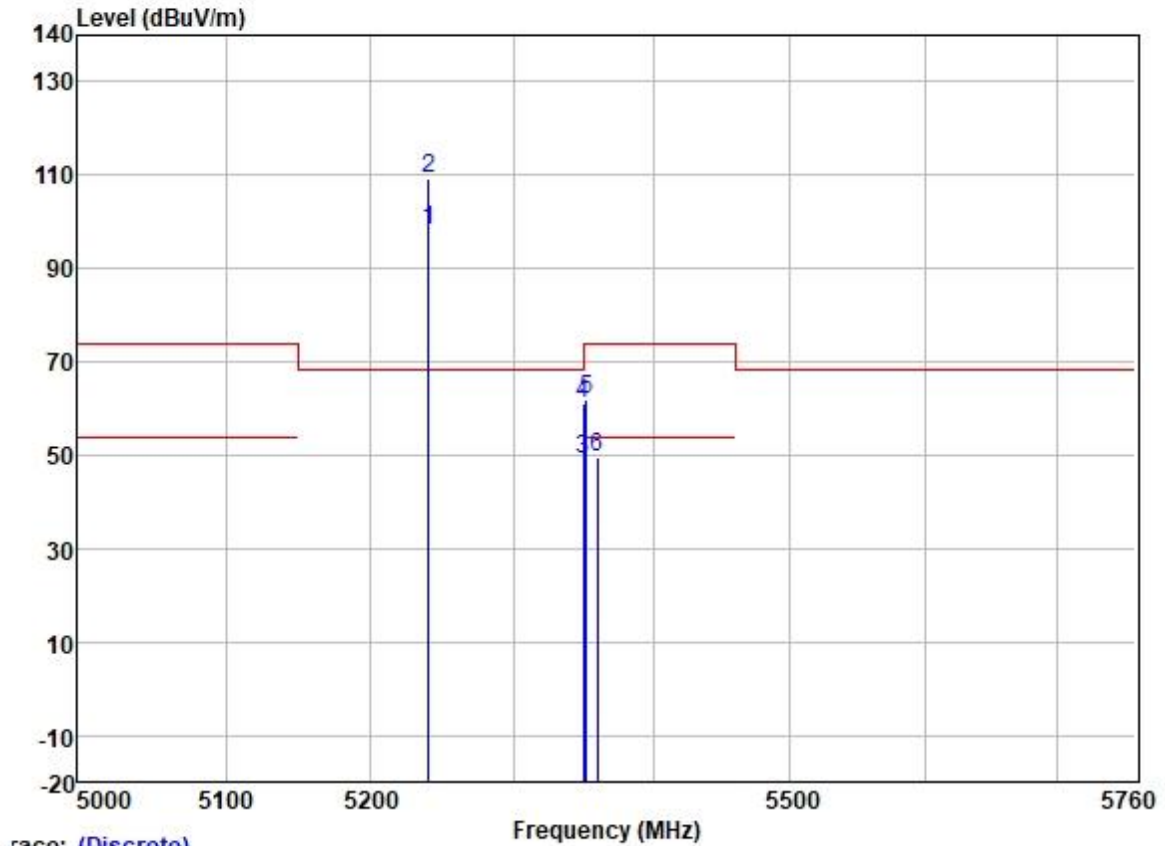
Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	95.67	31.75	5.74	36.87	96.29	-----	-----	HORIZONTAL Average
2 *	5240.000	106.78	31.75	5.74	36.87	107.40	68.20	39.20	HORIZONTAL Peak
3	5350.020	48.35	31.77	6.05	36.88	49.29	54.00	-4.71	HORIZONTAL Average
4	5350.020	59.88	31.77	6.05	36.88	60.82	74.00	-13.18	HORIZONTAL Peak
5	5353.053	60.95	31.77	6.05	36.88	61.89	74.00	-12.11	HORIZONTAL Peak
6	5355.037	48.63	31.78	6.03	36.88	49.56	54.00	-4.44	HORIZONTAL Average

Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

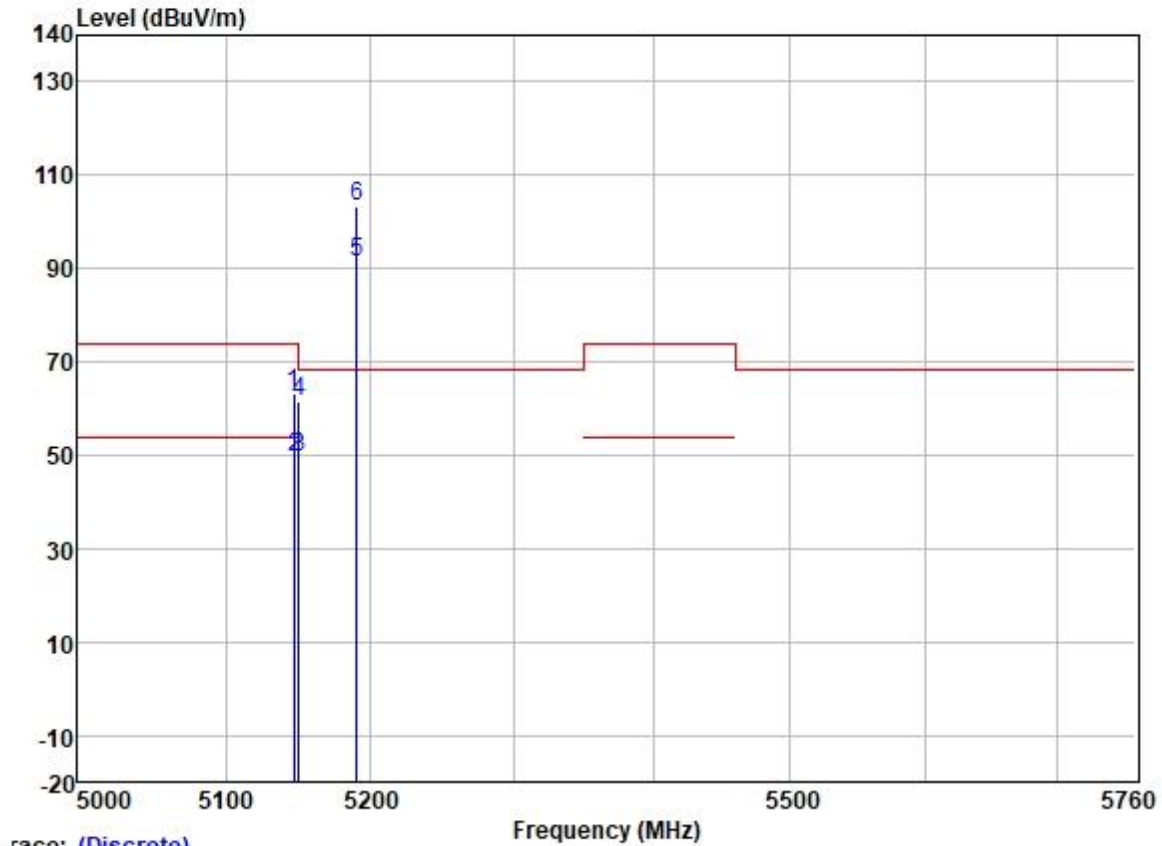
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	97.71	31.75	5.74	36.87	98.33	-----	-----	VERTICAL	Average
2 *	5240.000	108.56	31.75	5.74	36.87	109.18	68.20	40.98	VERTICAL	Peak
3	5350.020	48.39	31.77	6.05	36.88	49.33	54.00	-4.67	VERTICAL	Average
4	5350.020	60.08	31.77	6.05	36.88	61.02	74.00	-12.98	VERTICAL	Peak
5	5352.062	61.03	31.77	6.05	36.88	61.97	74.00	-12.03	VERTICAL	Peak
6	5359.574	48.62	31.78	6.03	36.88	49.55	54.00	-4.45	VERTICAL	Average



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.

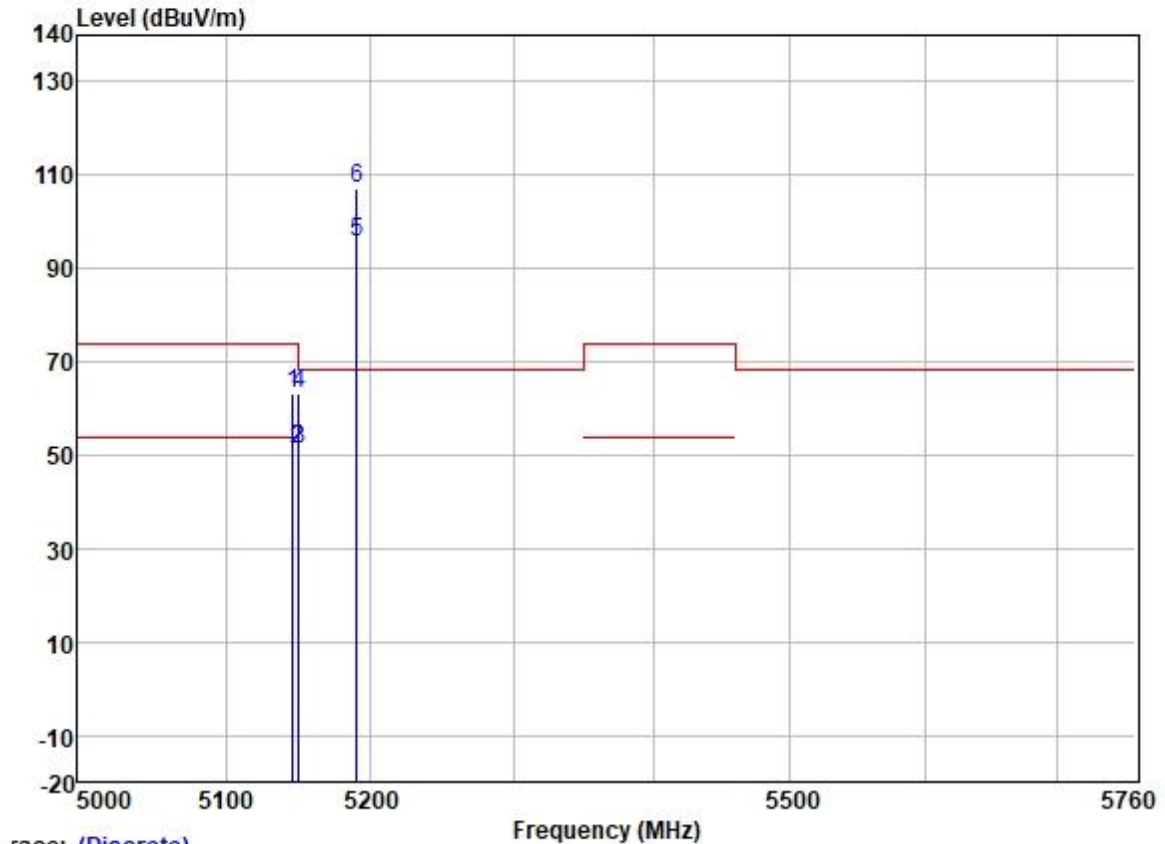
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; 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	5146.588	62.60	31.72	5.62	36.86	63.08	74.00	-10.92	HORIZONTAL	Peak
2	5147.545	49.15	31.72	5.62	36.86	49.63	54.00	-4.37	HORIZONTAL	Average
3	5149.980	49.21	31.72	5.62	36.86	49.69	54.00	-4.31	HORIZONTAL	Average
4	5149.980	61.10	31.72	5.62	36.86	61.58	74.00	-12.42	HORIZONTAL	Peak
5	5190.000	91.01	31.73	5.60	36.87	91.47	-----	-----	HORIZONTAL	Average
6 *	5190.000	102.74	31.73	5.60	36.87	103.20	68.20	35.00	HORIZONTAL	Peak

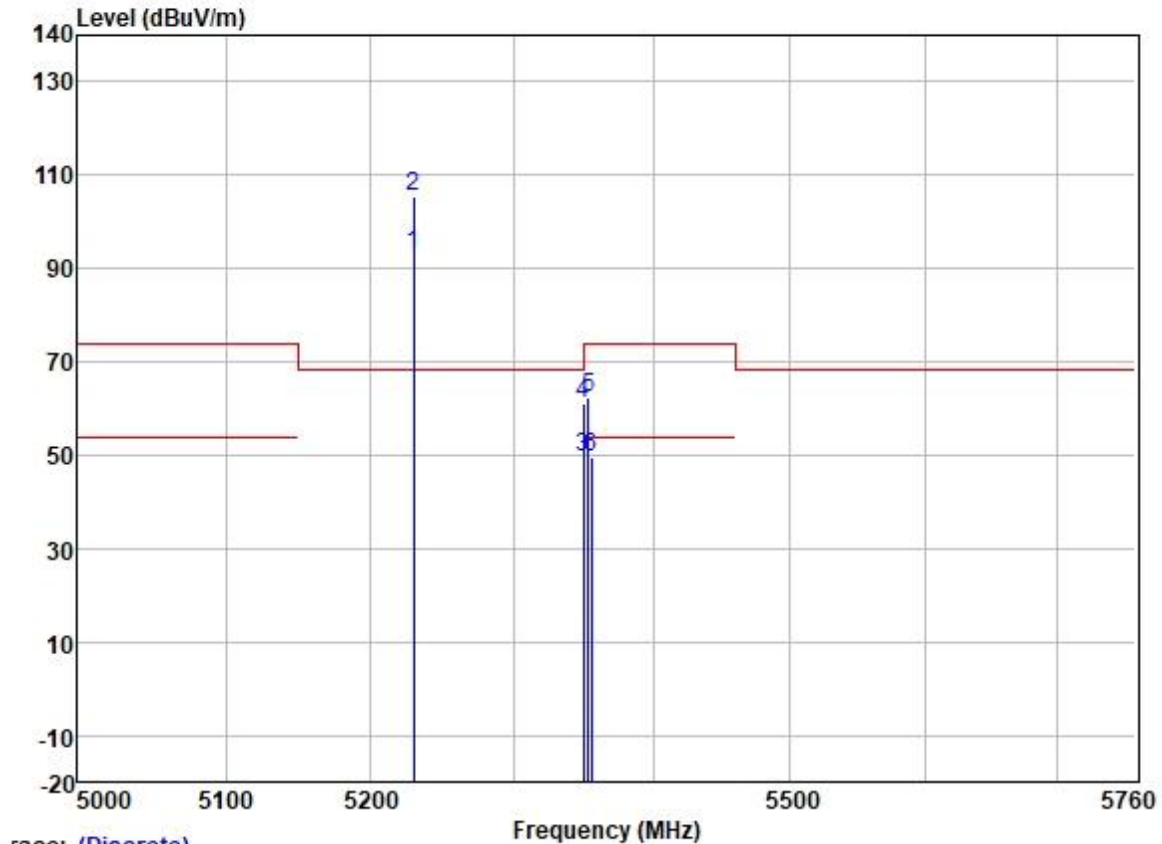
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5146.229	62.83	31.72	5.62	36.86	63.31	74.00	-10.69	VERTICAL	Peak
2	5149.461	50.66	31.72	5.62	36.86	51.14	54.00	-2.86	VERTICAL	Average
3	5149.980	50.63	31.72	5.62	36.86	51.11	54.00	-2.89	VERTICAL	Average
4	5149.980	62.87	31.72	5.62	36.86	63.35	74.00	-10.65	VERTICAL	Peak
5	5190.000	95.09	31.73	5.60	36.87	95.55	-----	-----	VERTICAL	Average
6 *	5190.000	106.78	31.73	5.60	36.87	107.24	68.20	39.04	VERTICAL	Peak

Test Mode: 18; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

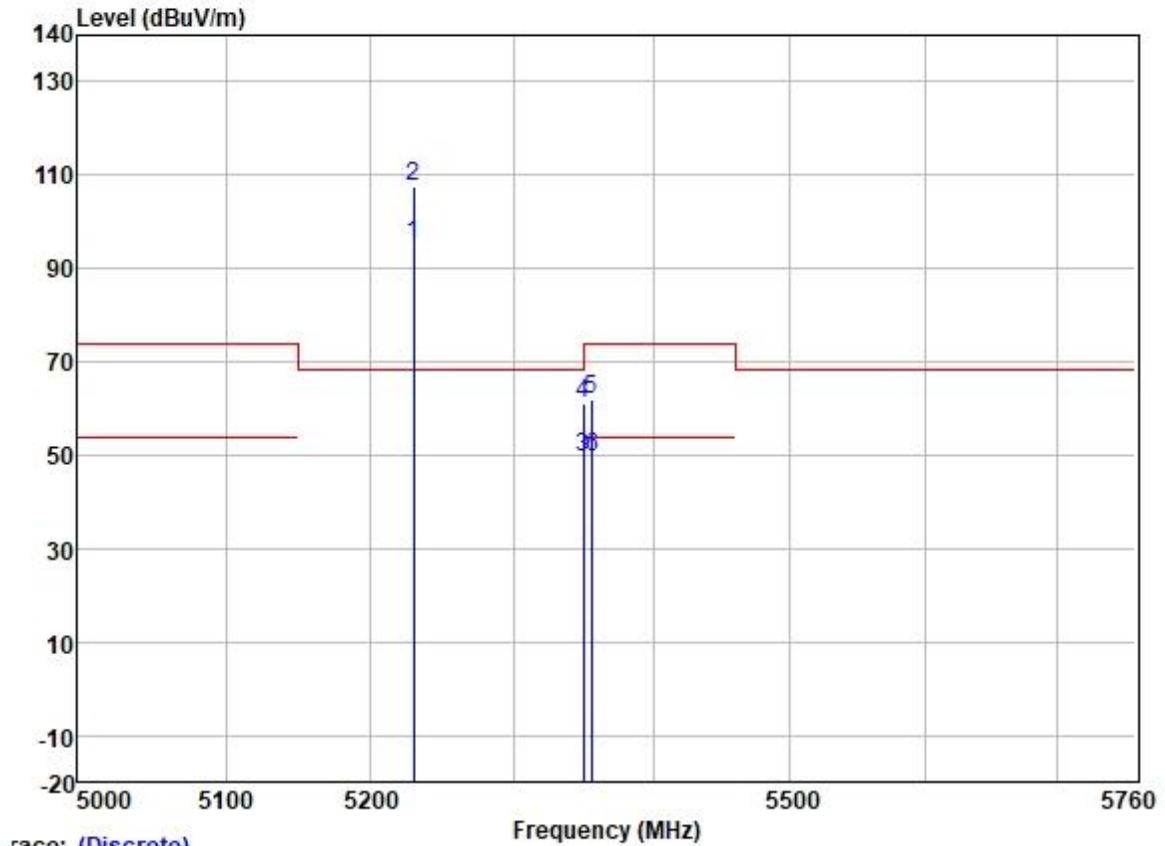
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	92.55	31.74	5.70	36.87	93.12	-----	-----	HORIZONTAL Average
2 *	5230.000	104.84	31.74	5.70	36.87	105.41	68.20	37.21	HORIZONTAL Peak
3	5350.020	48.41	31.77	6.05	36.88	49.35	54.00	-4.65	HORIZONTAL Average
4	5350.020	60.23	31.77	6.05	36.88	61.17	74.00	-12.83	HORIZONTAL Peak
5	5353.506	61.39	31.77	6.05	36.88	62.33	74.00	-11.67	HORIZONTAL Peak
6	5355.616	48.56	31.78	6.03	36.88	49.49	54.00	-4.51	HORIZONTAL Average



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-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.

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

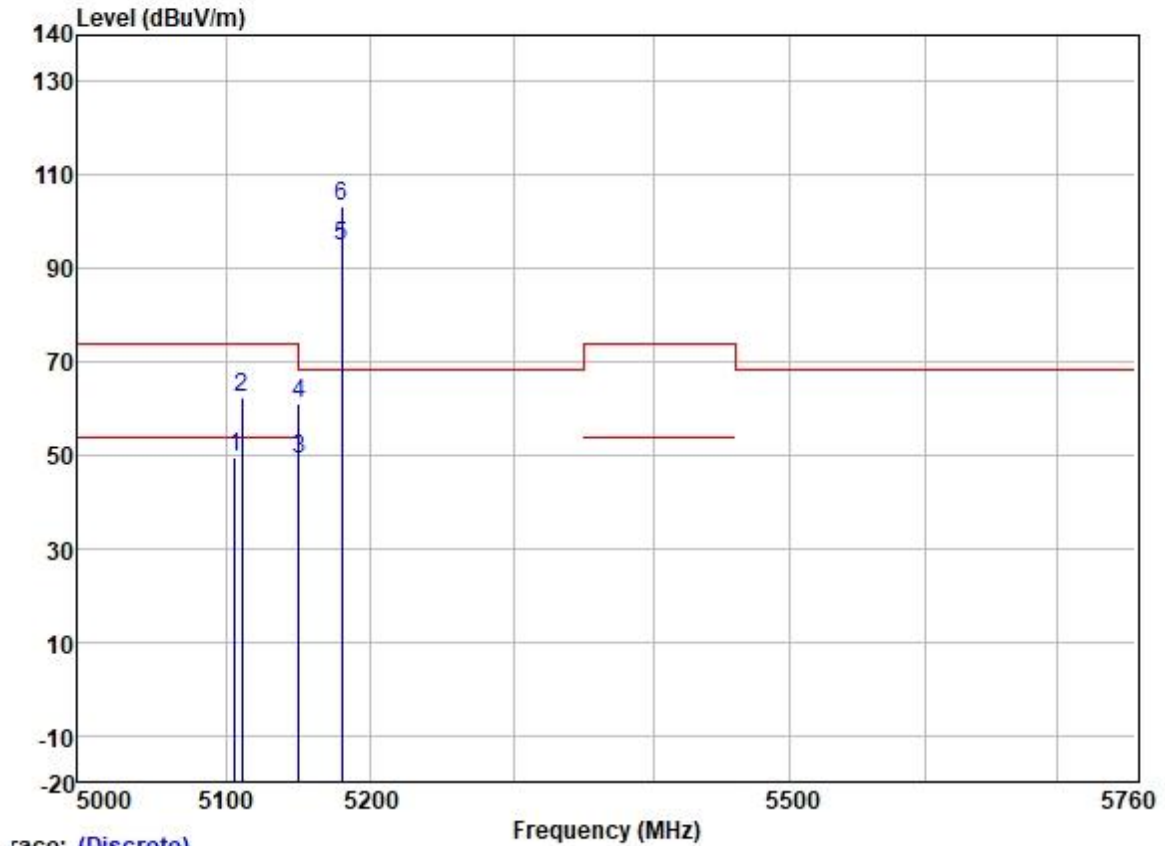
Test Mode: 18; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	94.55	31.74	5.70	36.87	95.12	-----	-----	VERTICAL Average
2 *	5230.000	106.88	31.74	5.70	36.87	107.45	68.20	39.25	VERTICAL Peak
3	5350.020	48.41	31.77	6.05	36.88	49.35	54.00	-4.65	VERTICAL Average
4	5350.020	60.14	31.77	6.05	36.88	61.08	74.00	-12.92	VERTICAL Peak
5	5355.778	61.10	31.78	6.03	36.88	62.03	74.00	-11.97	VERTICAL Peak
6	5356.428	48.75	31.78	6.03	36.88	49.68	54.00	-4.32	VERTICAL Average

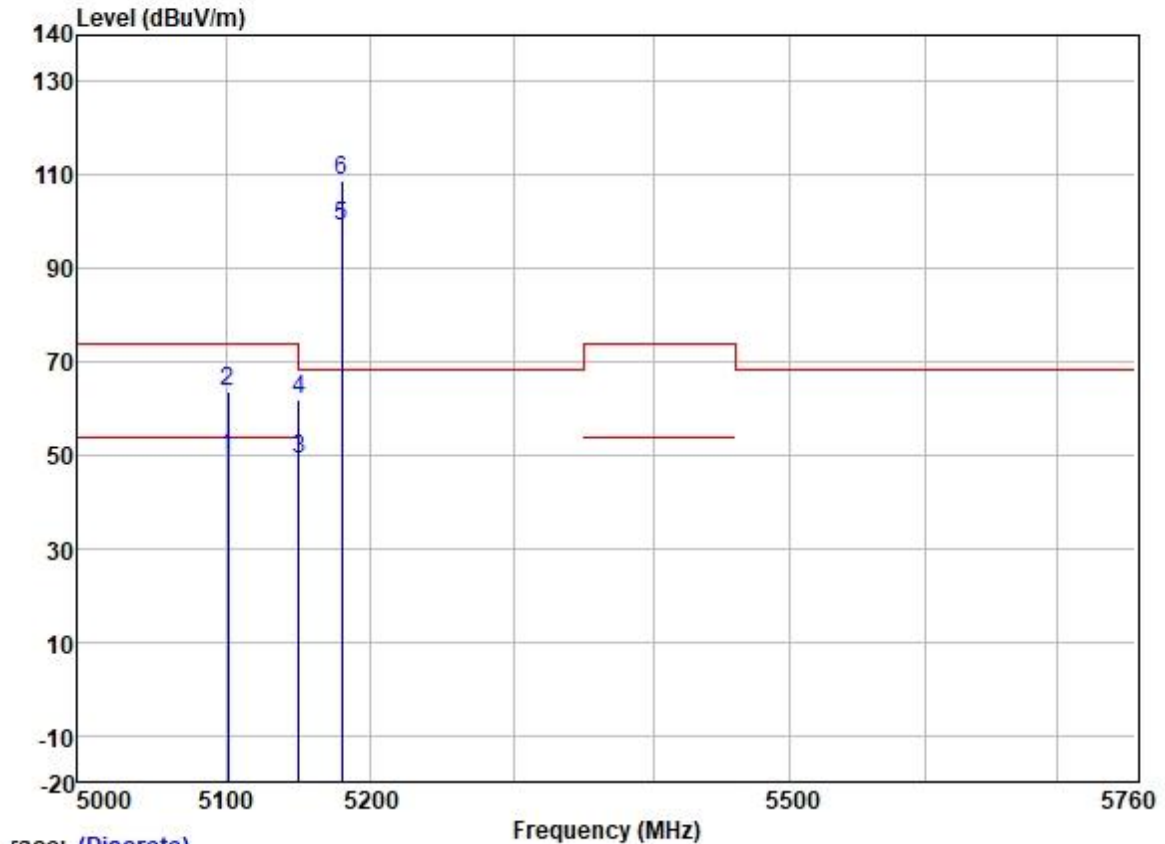
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

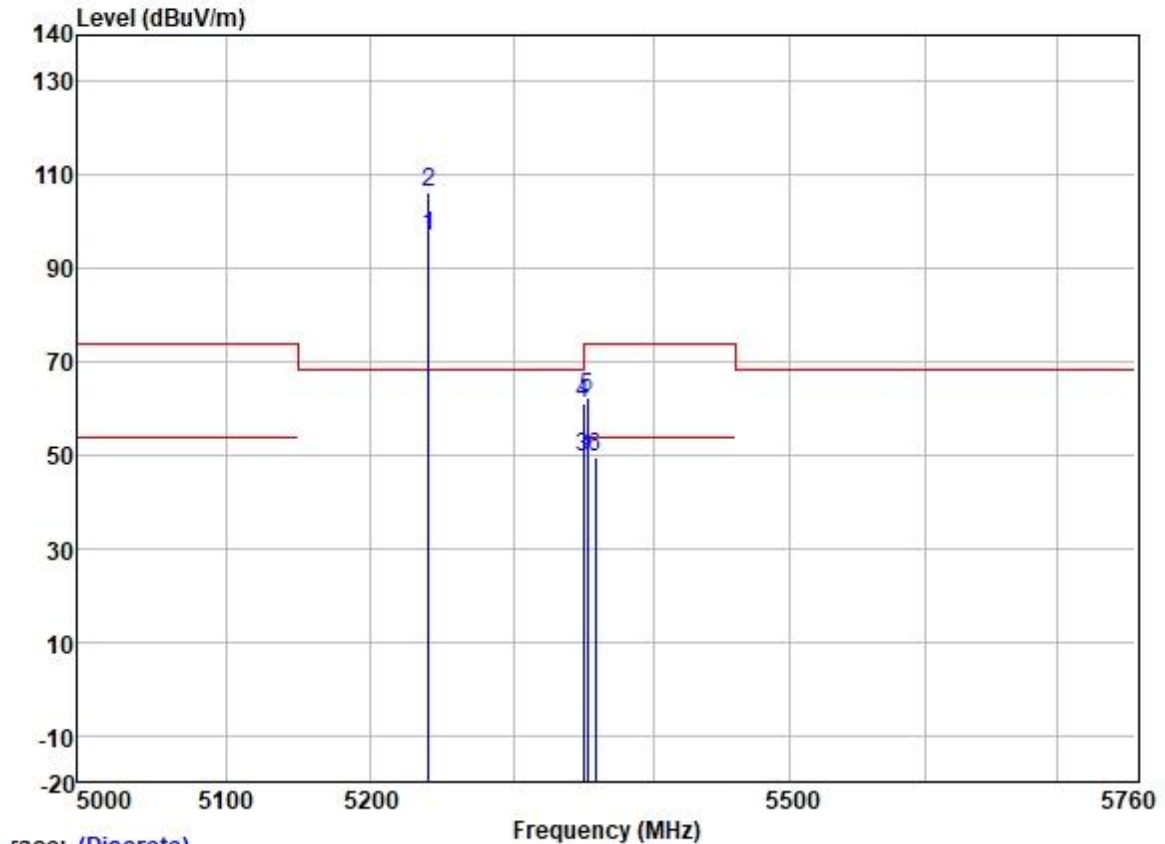
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.342	48.91	31.72	5.65	36.86	49.42	54.00	-4.58	HORIZONTAL Average
2	5110.806	61.76	31.72	5.65	36.86	62.27	74.00	-11.73	HORIZONTAL Peak
3	5149.980	48.55	31.72	5.62	36.86	49.03	54.00	-4.97	HORIZONTAL Average
4	5149.980	60.53	31.72	5.62	36.86	61.01	74.00	-12.99	HORIZONTAL Peak
5	5180.000	94.10	31.73	5.61	36.87	94.57	-----	-----	HORIZONTAL Average
6 *	5180.000	103.05	31.73	5.61	36.87	103.52	68.20	35.32	HORIZONTAL Peak

Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5101.585	48.92	31.72	5.65	36.86	49.43	54.00	-4.57	VERTICAL
2	5101.585	63.26	31.72	5.65	36.86	63.77	74.00	-10.23	VERTICAL
3	5149.980	48.67	31.72	5.62	36.86	49.15	54.00	-4.85	VERTICAL
4	5149.980	61.37	31.72	5.62	36.86	61.85	74.00	-12.15	VERTICAL
5	5180.000	98.36	31.73	5.61	36.87	98.83	-----	-----	VERTICAL
6 *	5180.000	108.49	31.73	5.61	36.87	108.96	68.20	40.76	VERTICAL

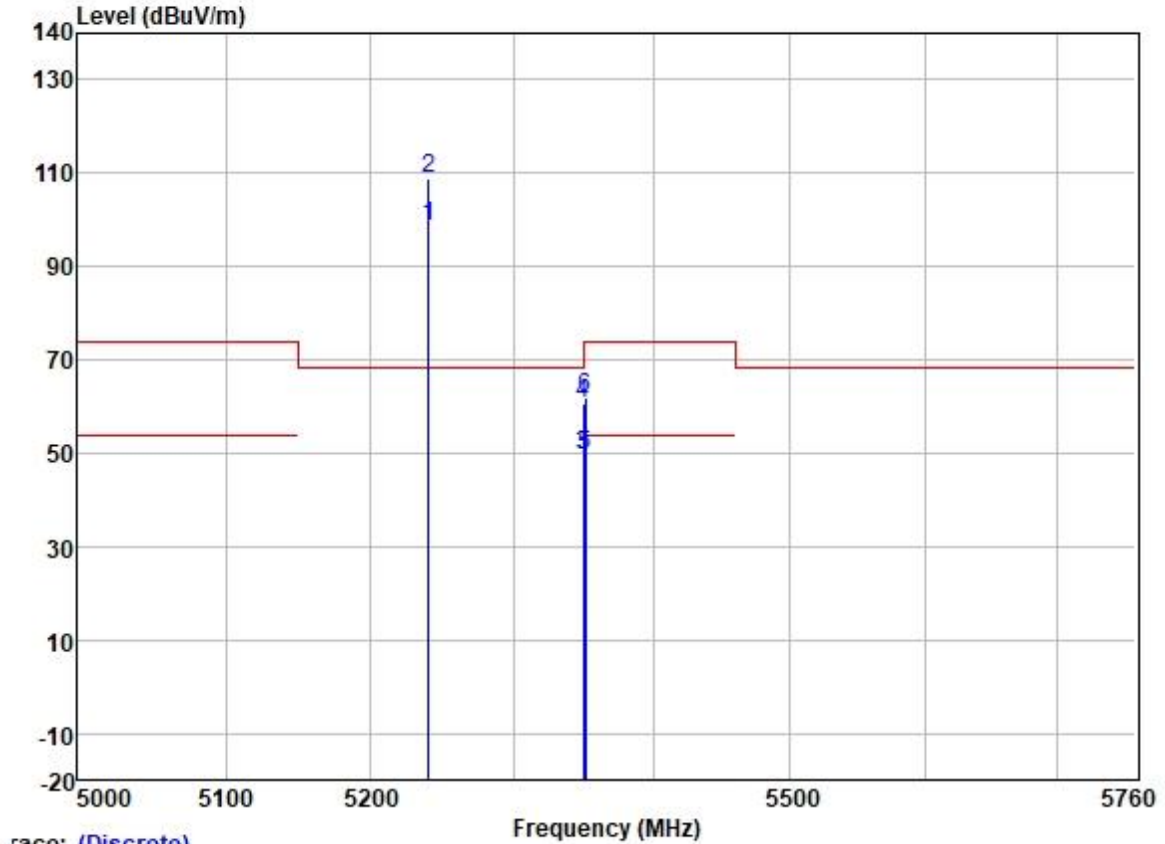
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

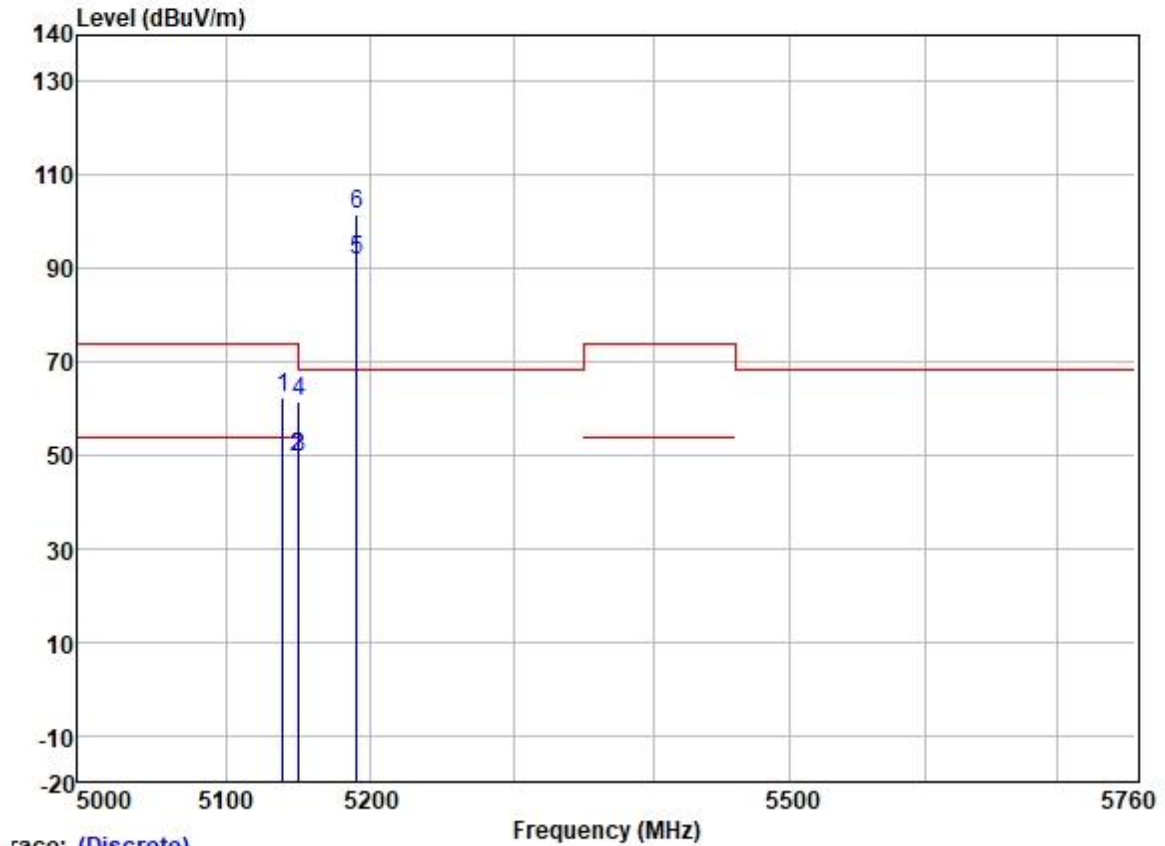
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	96.12	31.75	5.74	36.87	96.74	-----	-----	HORIZONTAL Average
2 *	5240.000	105.65	31.75	5.74	36.87	106.27	68.20	38.07	HORIZONTAL Peak
3	5350.020	48.40	31.77	6.05	36.88	49.34	54.00	-4.66	HORIZONTAL Average
4	5350.020	60.20	31.77	6.05	36.88	61.14	74.00	-12.86	HORIZONTAL Peak
5	5352.487	61.23	31.77	6.05	36.88	62.17	74.00	-11.83	HORIZONTAL Peak
6	5358.014	48.62	31.78	6.03	36.88	49.55	54.00	-4.45	HORIZONTAL Average

Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



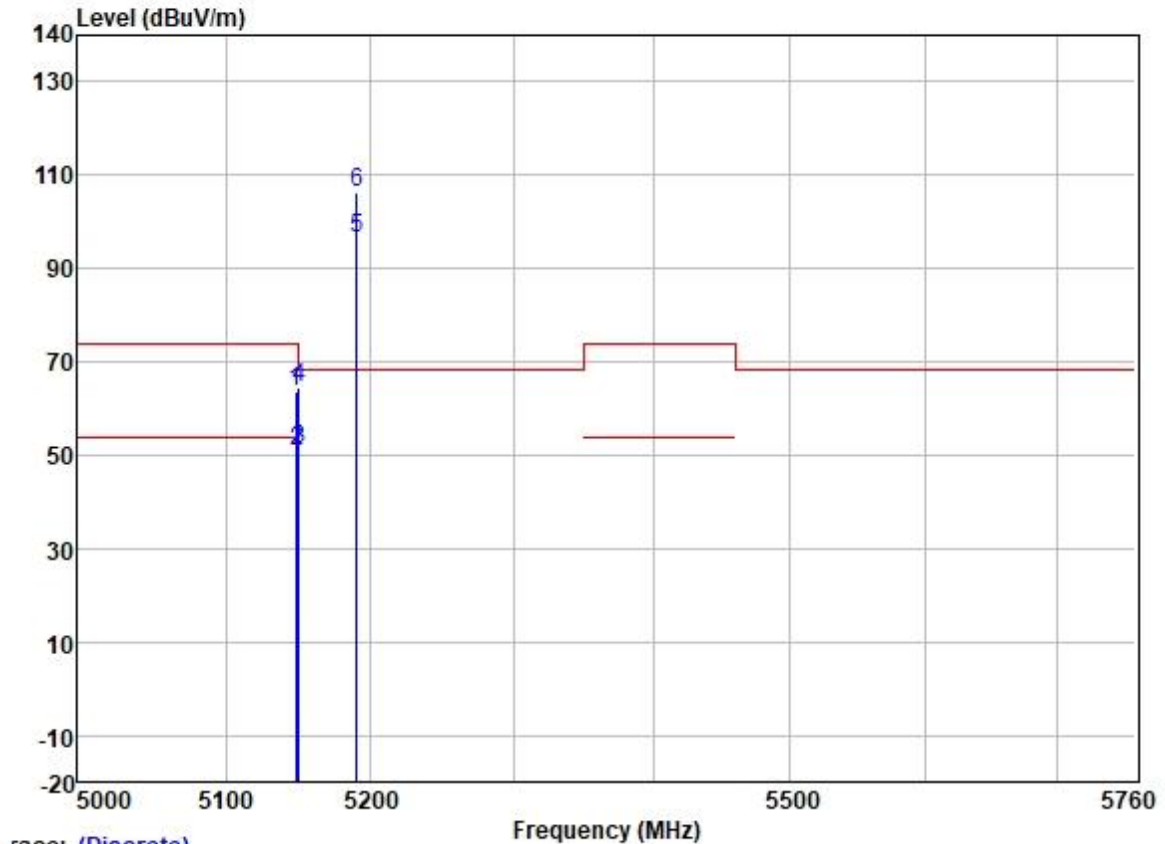
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	98.19	31.75	5.74	36.87	98.81	-----	-----	VERTICAL	Average
2 *	5240.000	108.11	31.75	5.74	36.87	108.73	68.20	40.53	VERTICAL	Peak
3	5350.020	48.40	31.77	6.05	36.88	49.34	54.00	-4.66	VERTICAL	Average
4	5350.020	59.85	31.77	6.05	36.88	60.79	74.00	-13.21	VERTICAL	Peak
5	5350.362	48.52	31.77	6.05	36.88	49.46	54.00	-4.54	VERTICAL	Average
6	5350.929	61.14	31.77	6.05	36.88	62.08	74.00	-11.92	VERTICAL	Peak

Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5138.814	61.66	31.72	5.63	36.86	62.15	74.00	-11.85	HORIZONTAL	Peak
2	5149.461	49.24	31.72	5.62	36.86	49.72	54.00	-4.28	HORIZONTAL	Average
3	5149.980	49.24	31.72	5.62	36.86	49.72	54.00	-4.28	HORIZONTAL	Average
4	5149.980	60.84	31.72	5.62	36.86	61.32	74.00	-12.68	HORIZONTAL	Peak
5	5190.000	91.37	31.73	5.60	36.87	91.83	-----	-----	HORIZONTAL	Average
6 *	5190.000	101.27	31.73	5.60	36.87	101.73	68.20	33.53	HORIZONTAL	Peak

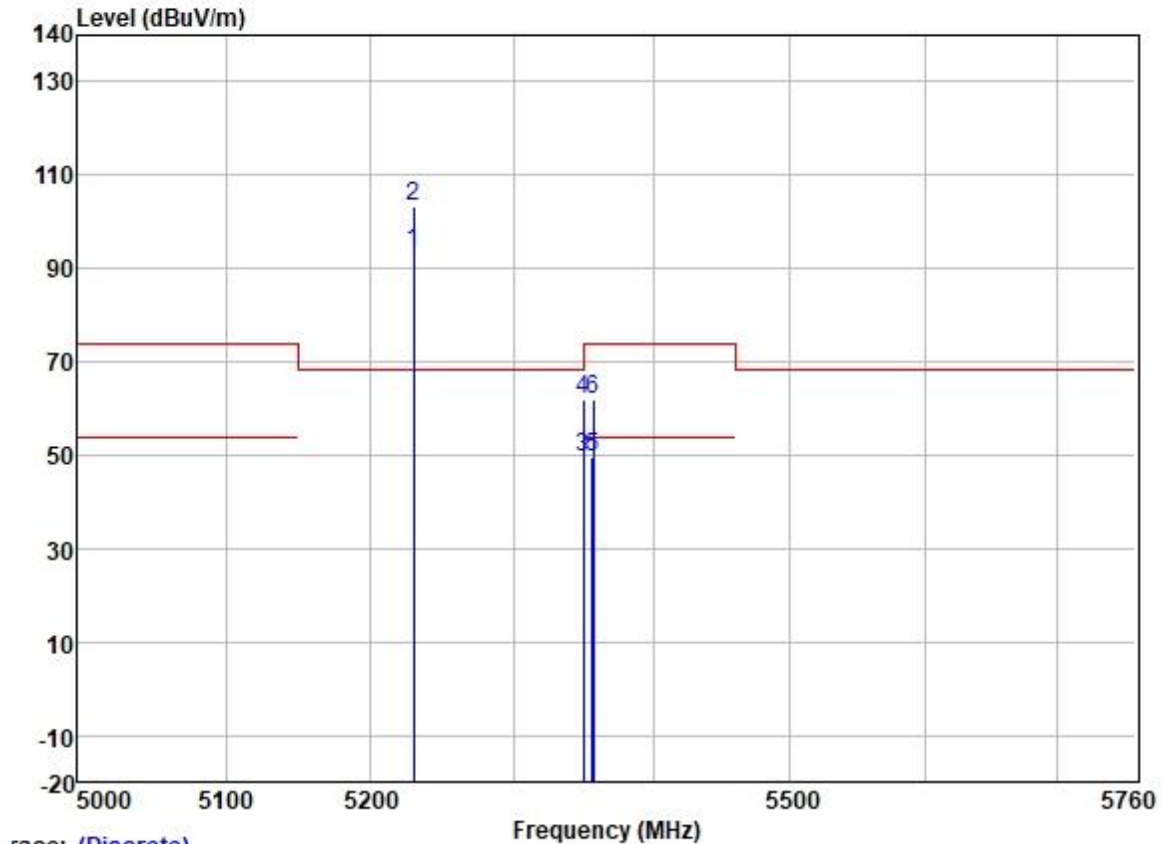
Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.024	63.27	31.72	5.62	36.86	63.75	74.00	-10.25	VERTICAL
2	5148.982	50.53	31.72	5.62	36.86	51.01	54.00	-2.99	VERTICAL
3	5149.980	50.83	31.72	5.62	36.86	51.31	54.00	-2.69	VERTICAL
4	5149.980	64.17	31.72	5.62	36.86	64.65	74.00	-9.35	VERTICAL
5	5190.000	96.02	31.73	5.60	36.87	96.48	-----	-----	VERTICAL
6 *	5190.000	105.89	31.73	5.60	36.87	106.35	68.20	38.15	VERTICAL

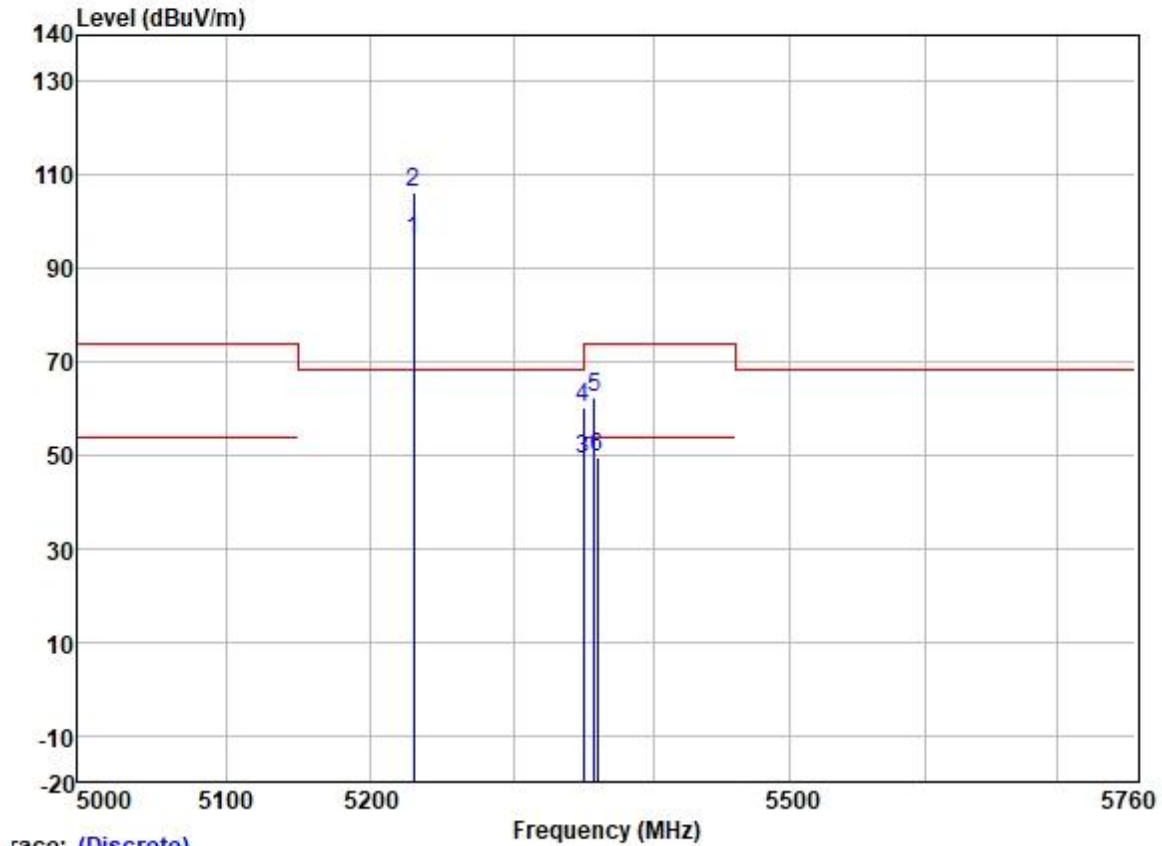
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5230.000	92.99	31.74	5.70	36.87	93.56	-----	-----	HORIZONTAL Average
2 *	5230.000	102.65	31.74	5.70	36.87	103.22	68.20	35.02	HORIZONTAL Peak
3	5350.020	48.50	31.77	6.05	36.88	49.44	54.00	-4.56	HORIZONTAL Average
4	5350.020	60.79	31.77	6.05	36.88	61.73	74.00	-12.27	HORIZONTAL Peak
5	5356.103	48.57	31.78	6.03	36.88	49.50	54.00	-4.50	HORIZONTAL Average
6	5357.239	61.09	31.78	6.03	36.88	62.02	74.00	-11.98	HORIZONTAL Peak

Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

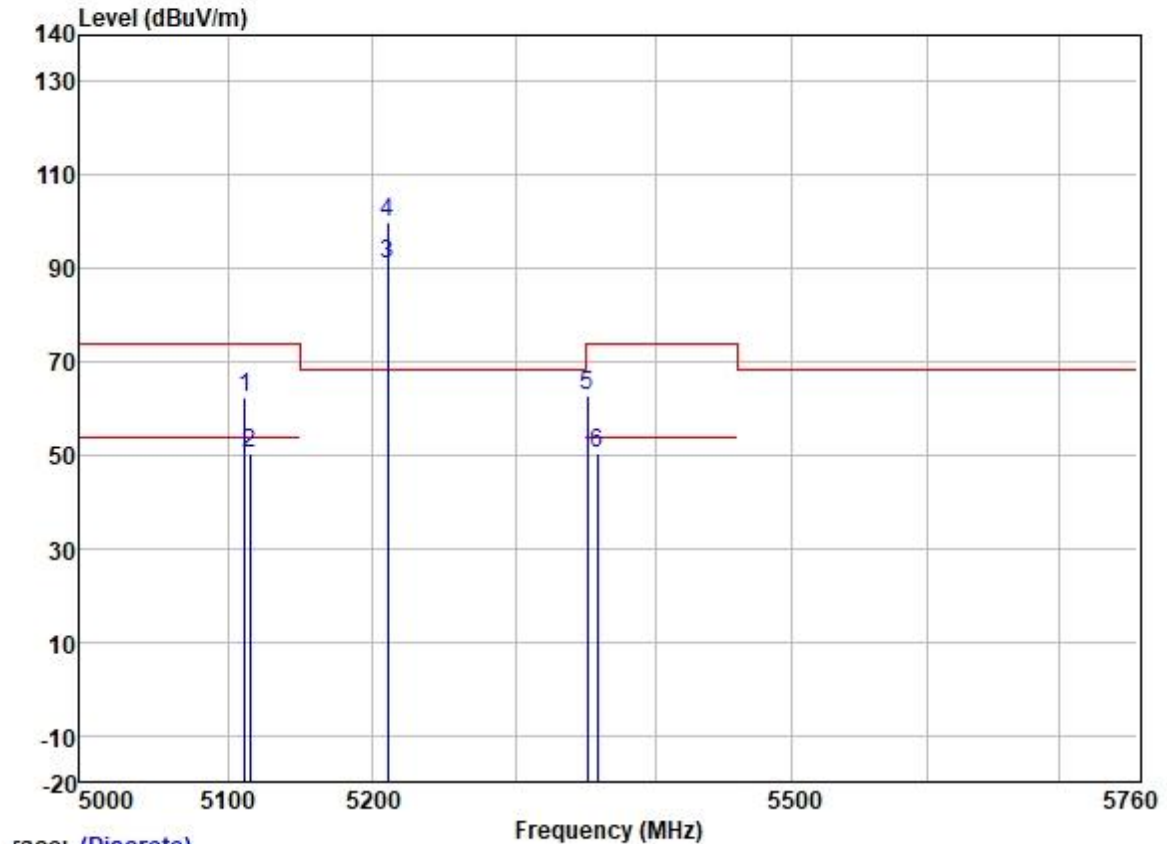
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	95.53	31.74	5.70	36.87	96.10	-----	-----	VERTICAL Average
2 *	5230.000	105.90	31.74	5.70	36.87	106.47	68.20	38.27	VERTICAL Peak
3	5350.020	48.38	31.77	6.05	36.88	49.32	54.00	-4.68	VERTICAL Average
4	5350.020	59.27	31.77	6.05	36.88	60.21	74.00	-13.79	VERTICAL Peak
5	5357.727	61.56	31.78	6.03	36.88	62.49	74.00	-11.51	VERTICAL Peak
6	5359.513	48.66	31.78	6.03	36.88	49.59	54.00	-4.41	VERTICAL Average



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.

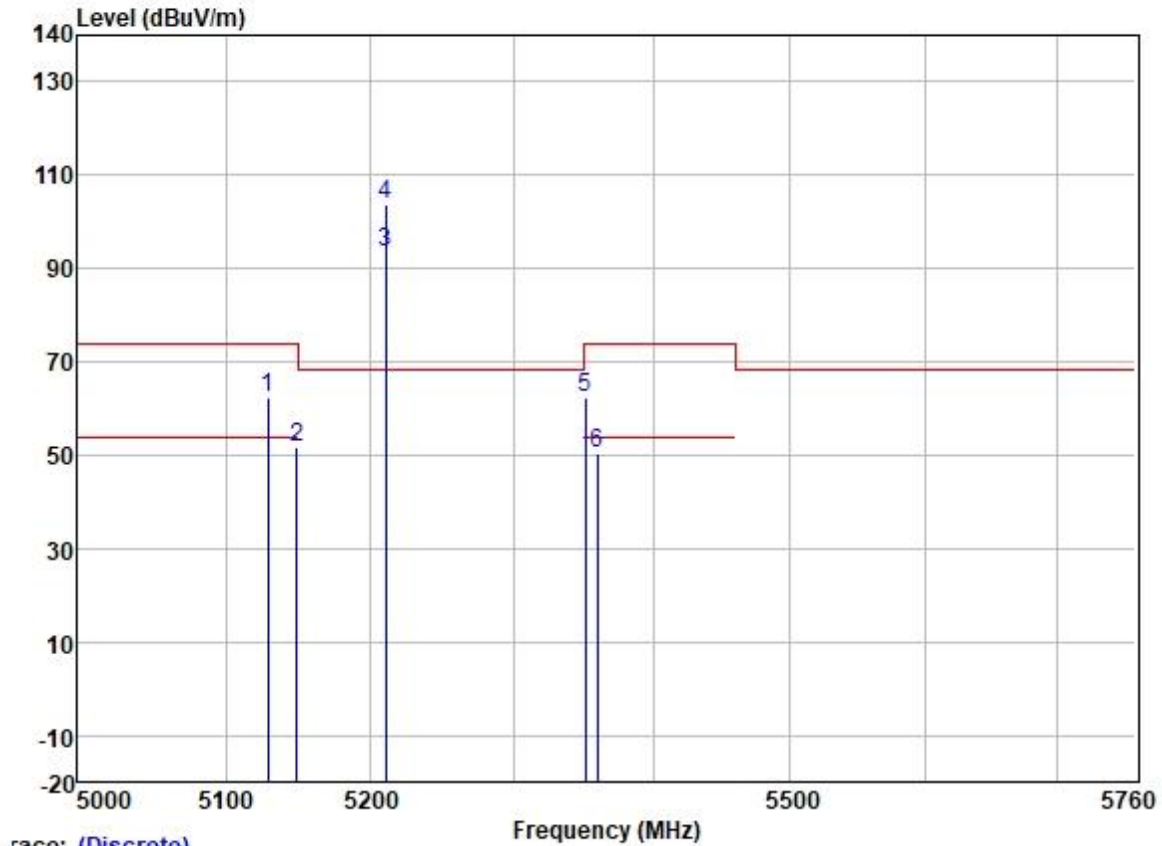
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 18; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



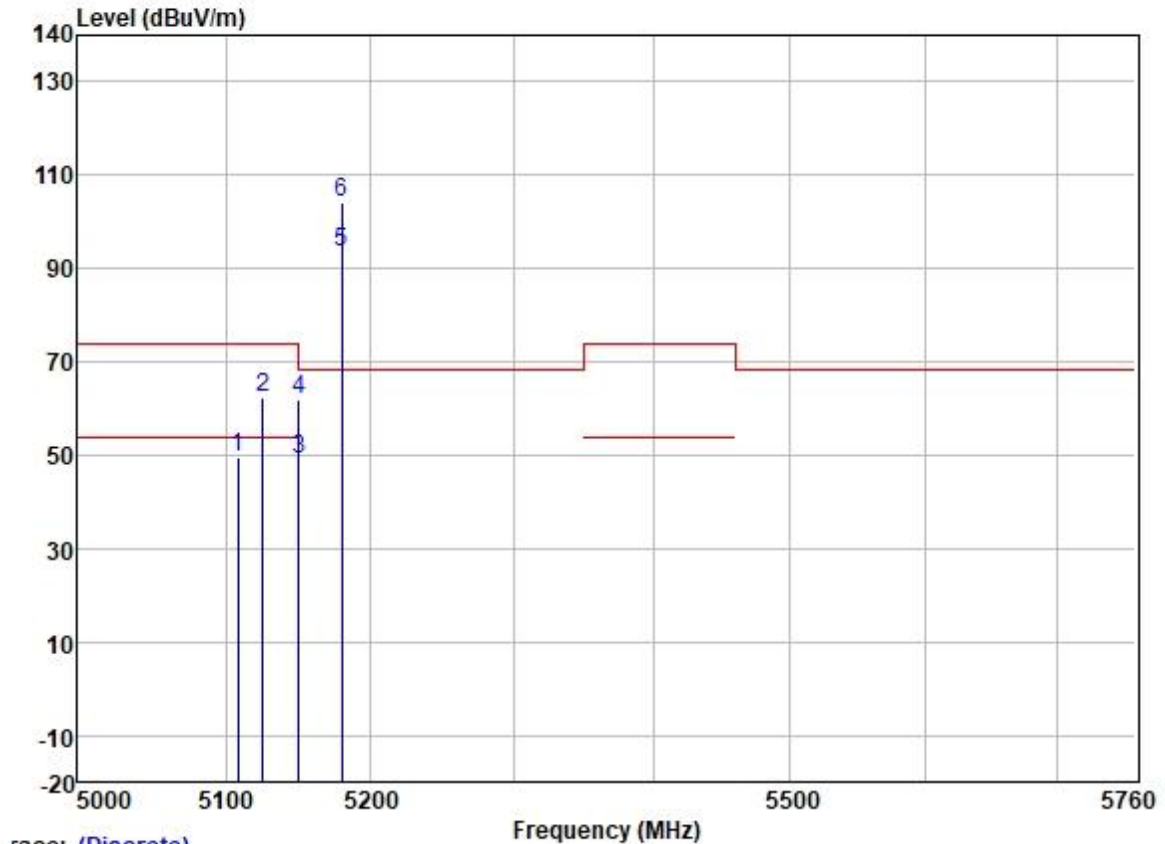
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5111.424	61.64	31.72	5.65	36.86	62.15	74.00	-11.85	HORIZONTAL	Peak
2	5115.238	49.92	31.72	5.64	36.86	50.42	54.00	-3.58	HORIZONTAL	Average
3	5210.000	90.44	31.74	5.65	36.87	90.96	-----	-----	HORIZONTAL	Average
4 *	5210.000	99.54	31.74	5.65	36.87	100.06	68.20	31.86	HORIZONTAL	Peak
5	5350.946	61.96	31.77	6.05	36.88	62.90	74.00	-11.10	HORIZONTAL	Peak
6	5358.667	49.31	31.78	6.03	36.88	50.24	54.00	-3.76	HORIZONTAL	Average

Test Mode: 18; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5128.736	62.01	31.72	5.63	36.86	62.50	74.00	-11.50	VERTICAL Peak
2	5148.667	51.12	31.72	5.62	36.86	51.60	54.00	-2.40	VERTICAL Average
3	5210.000	92.88	31.74	5.65	36.87	93.40	-----	-----	VERTICAL Average
4 *	5210.000	103.03	31.74	5.65	36.87	103.55	68.20	35.35	VERTICAL Peak
5	5351.212	61.29	31.77	6.05	36.88	62.23	74.00	-11.77	VERTICAL Peak
6	5359.467	49.34	31.78	6.03	36.88	50.27	54.00	-3.73	VERTICAL Average

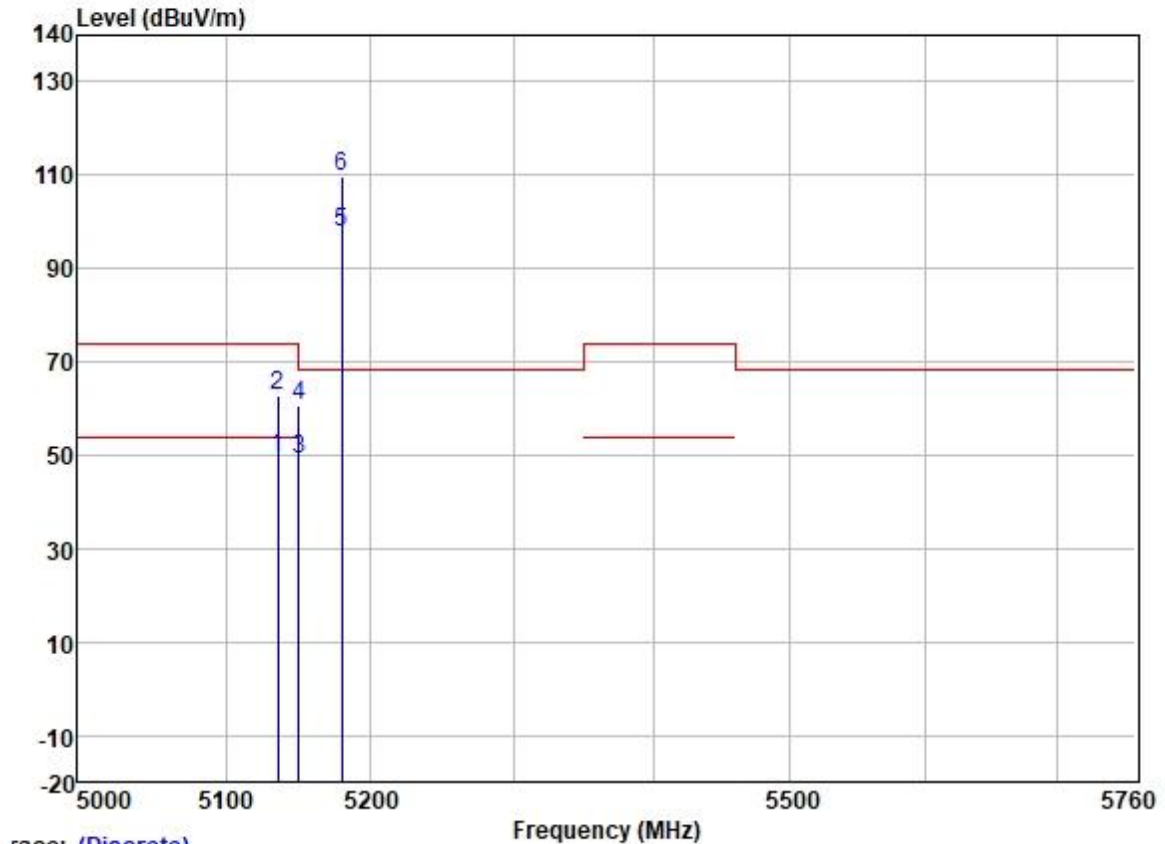
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



race: (Discrete)

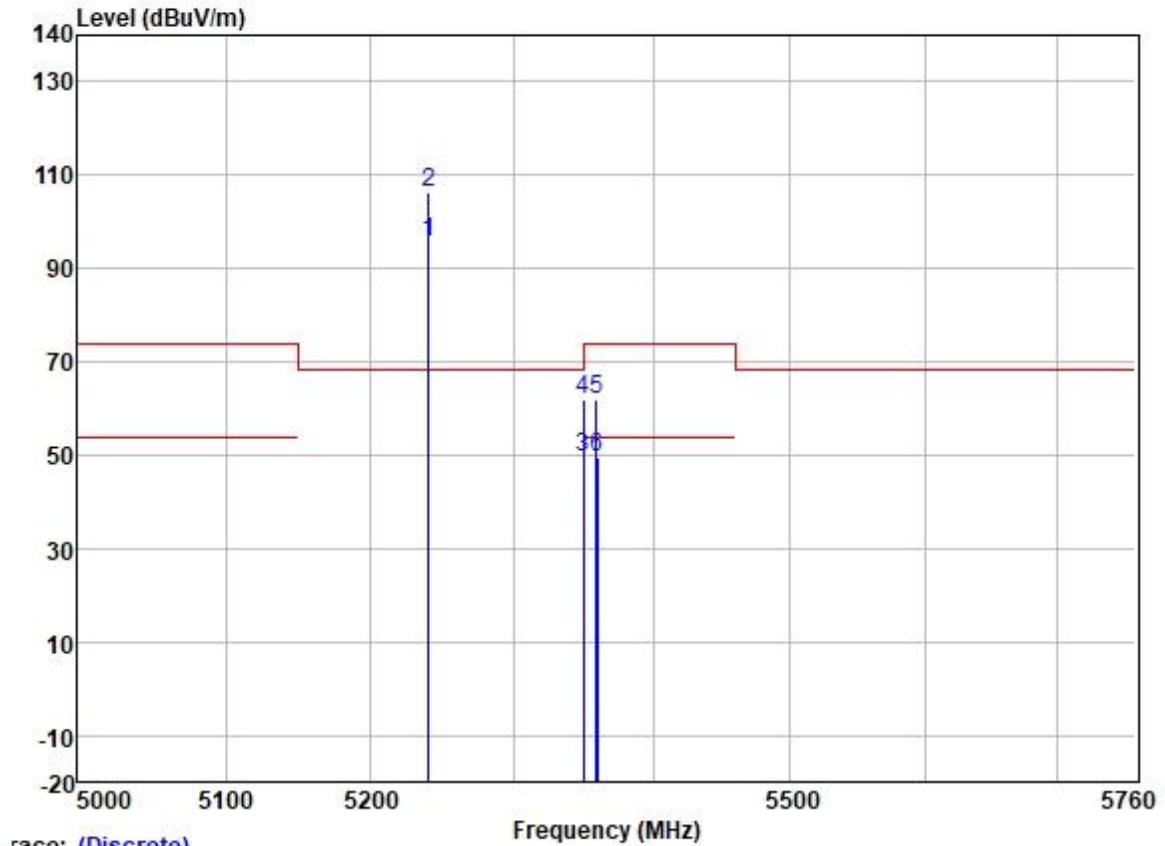
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5108.127	48.95	31.72	5.65	36.86	49.46	54.00	-4.54	HORIZONTAL Average
2	5125.614	61.86	31.72	5.64	36.86	62.36	74.00	-11.64	HORIZONTAL Peak
3	5149.980	48.62	31.72	5.62	36.86	49.10	54.00	-4.90	HORIZONTAL Average
4	5149.980	61.32	31.72	5.62	36.86	61.80	74.00	-12.20	HORIZONTAL Peak
5	5180.000	93.17	31.73	5.61	36.87	93.64	-----	-----	HORIZONTAL Average
6 *	5180.000	103.67	31.73	5.61	36.87	104.14	68.20	35.94	HORIZONTAL Peak

Test Mode: 18; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5135.876	48.98	31.72	5.63	36.86	49.47	54.00	-4.53	VERTICAL Average
2	5135.876	62.32	31.72	5.63	36.86	62.81	74.00	-11.19	VERTICAL Peak
3	5149.980	48.77	31.72	5.62	36.86	49.25	54.00	-4.75	VERTICAL Average
4	5149.980	60.31	31.72	5.62	36.86	60.79	74.00	-13.21	VERTICAL Peak
5	5180.000	97.46	31.73	5.61	36.87	97.93	-----	-----	VERTICAL Average
6 *	5180.000	109.03	31.73	5.61	36.87	109.50	68.20	41.30	VERTICAL Peak

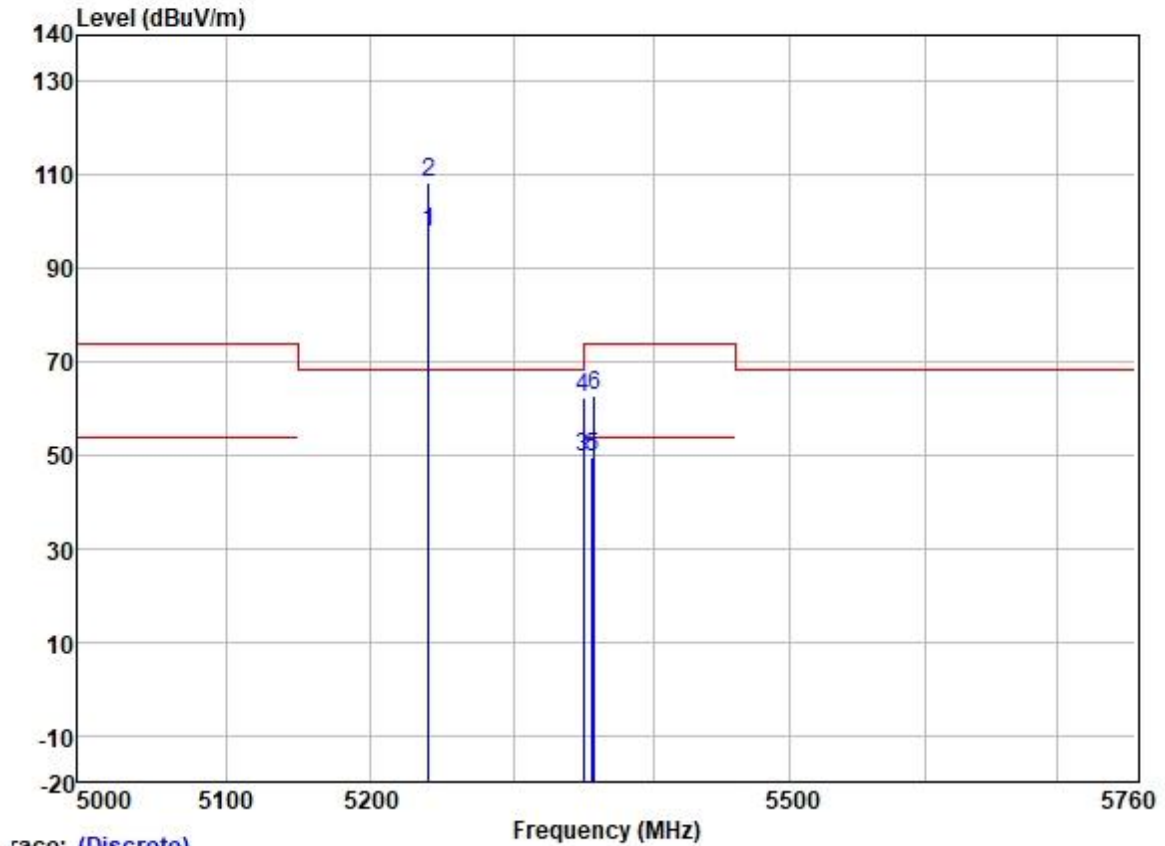
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	95.10	31.75	5.74	36.87	95.72	-----	-----	HORIZONTAL Average
2 *	5240.000	105.50	31.75	5.74	36.87	106.12	68.20	37.92	HORIZONTAL Peak
3	5350.020	48.54	31.77	6.05	36.88	49.48	54.00	-4.52	HORIZONTAL Average
4	5350.020	61.03	31.77	6.05	36.88	61.97	74.00	-12.03	HORIZONTAL Peak
5	5359.291	60.87	31.78	6.03	36.88	61.80	74.00	-12.20	HORIZONTAL Peak
6	5359.858	48.63	31.78	6.03	36.88	49.56	54.00	-4.44	HORIZONTAL Average

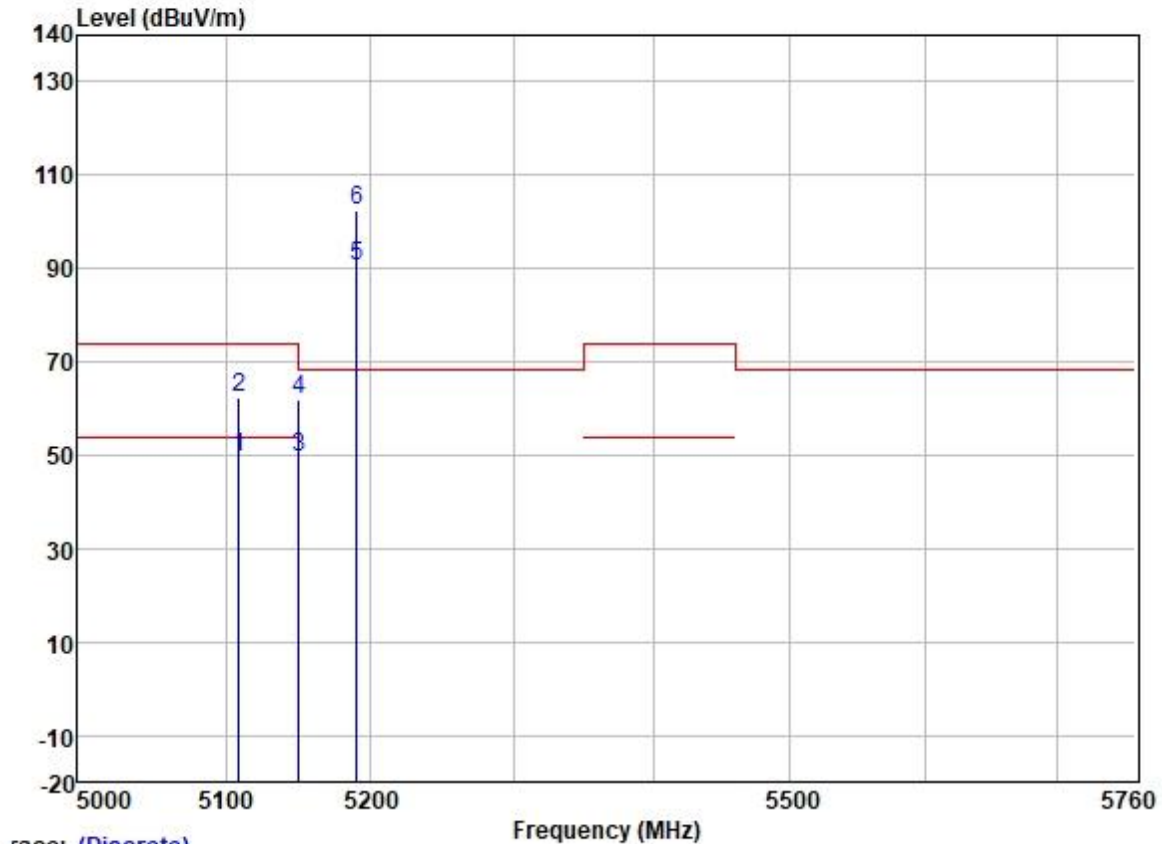
Test Mode: 18; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	97.08	31.75	5.74	36.87	97.70	-----	VERTICAL	Average
2 *	5240.000	107.92	31.75	5.74	36.87	108.54	68.20	40.34 VERTICAL	Peak
3	5350.020	48.40	31.77	6.05	36.88	49.34	54.00	-4.66 VERTICAL	Average
4	5350.020	61.59	31.77	6.05	36.88	62.53	74.00	-11.47 VERTICAL	Peak
5	5356.313	48.74	31.78	6.03	36.88	49.67	54.00	-4.33 VERTICAL	Average
6	5357.589	61.95	31.78	6.03	36.88	62.88	74.00	-11.12 VERTICAL	Peak

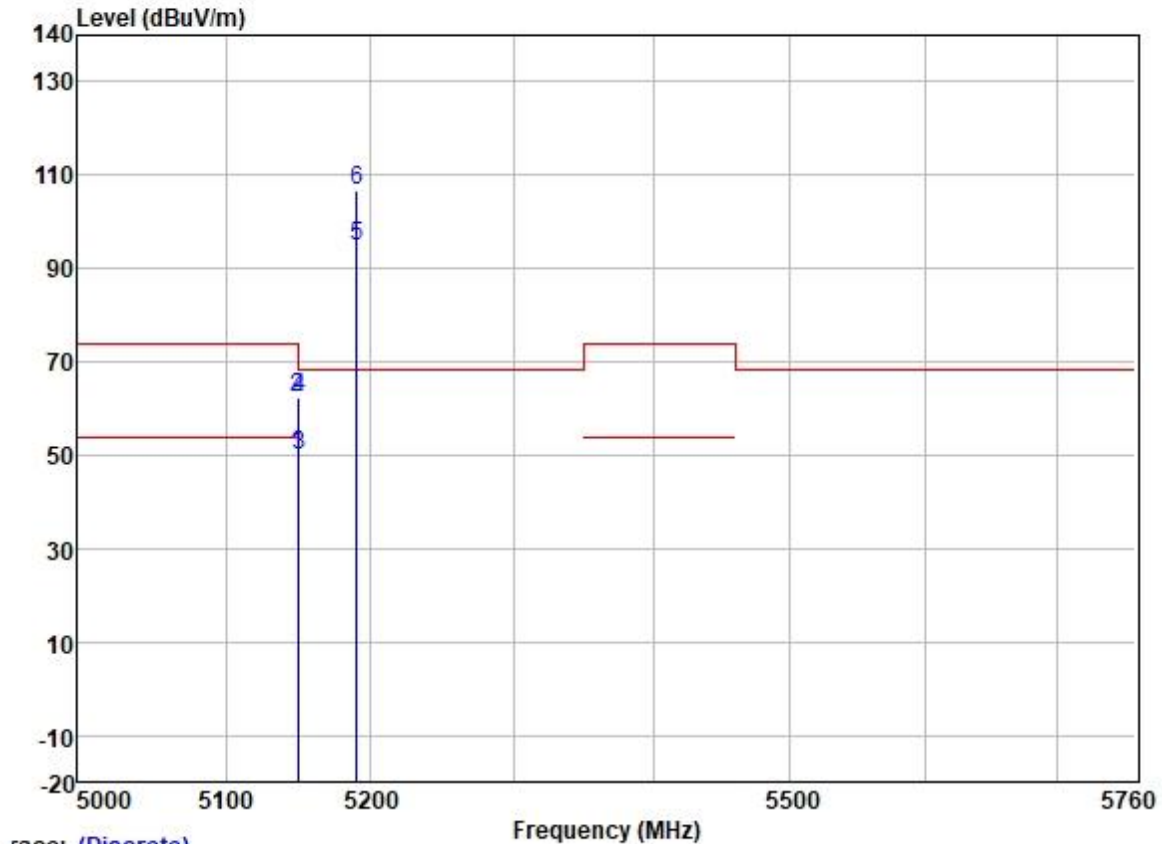
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

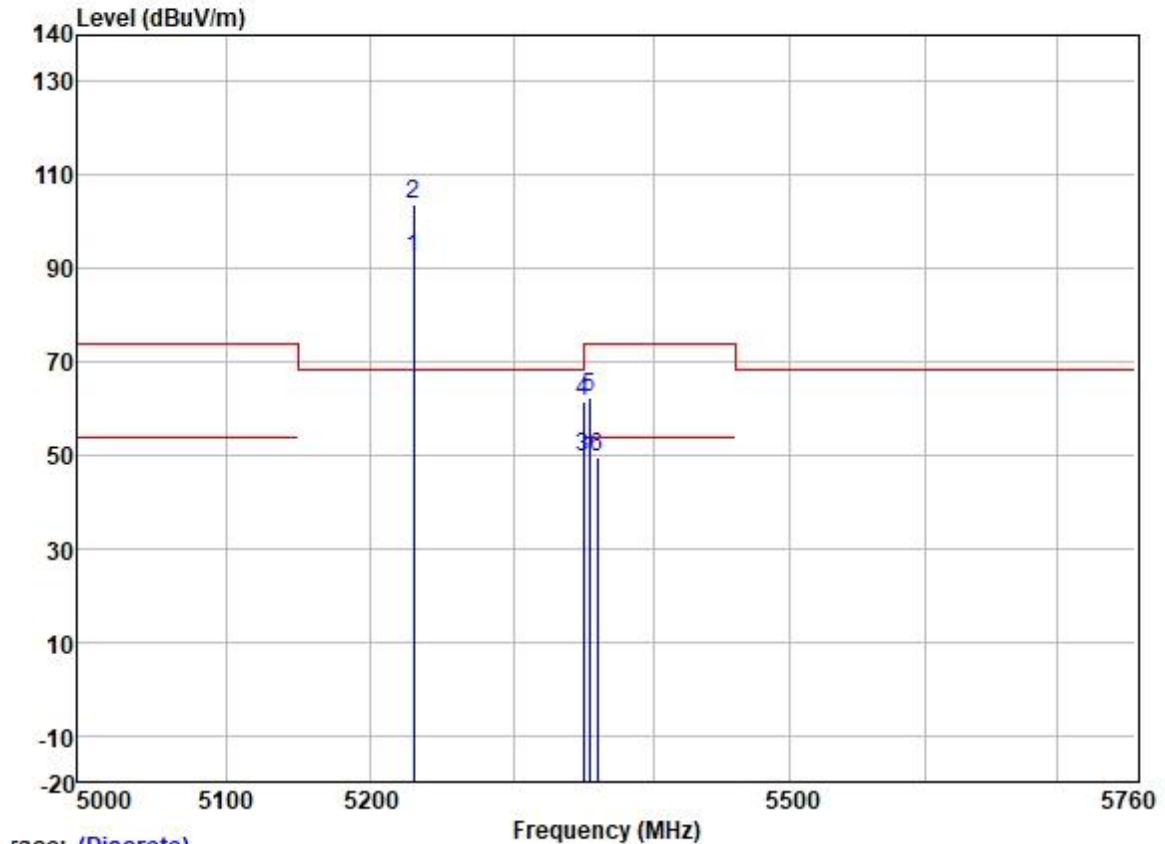
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5109.141	48.95	31.72	5.65	36.86	49.46	54.00	-4.54	HORIZONTAL Average
2	5109.141	61.73	31.72	5.65	36.86	62.24	74.00	-11.76	HORIZONTAL Peak
3	5149.980	48.92	31.72	5.62	36.86	49.40	54.00	-4.60	HORIZONTAL Average
4	5149.980	61.35	31.72	5.62	36.86	61.83	74.00	-12.17	HORIZONTAL Peak
5	5190.000	90.09	31.73	5.60	36.87	90.55	-----	-----	HORIZONTAL Average
6 *	5190.000	102.00	31.73	5.60	36.87	102.46	68.20	34.26	HORIZONTAL Peak

Test Mode: 18; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 40MHz; 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		5149.222	49.51	31.72	5.62	36.86	49.99	54.00	-4.01	VERTICAL	Average
2		5149.222	61.88	31.72	5.62	36.86	62.36	74.00	-11.64	VERTICAL	Peak
3		5149.980	49.48	31.72	5.62	36.86	49.96	54.00	-4.04	VERTICAL	Average
4		5149.980	61.82	31.72	5.62	36.86	62.30	74.00	-11.70	VERTICAL	Peak
5		5190.000	94.10	31.73	5.60	36.87	94.56	-----	-----	VERTICAL	Average
6	*	5190.000	106.10	31.73	5.60	36.87	106.56	68.20	38.36	VERTICAL	Peak

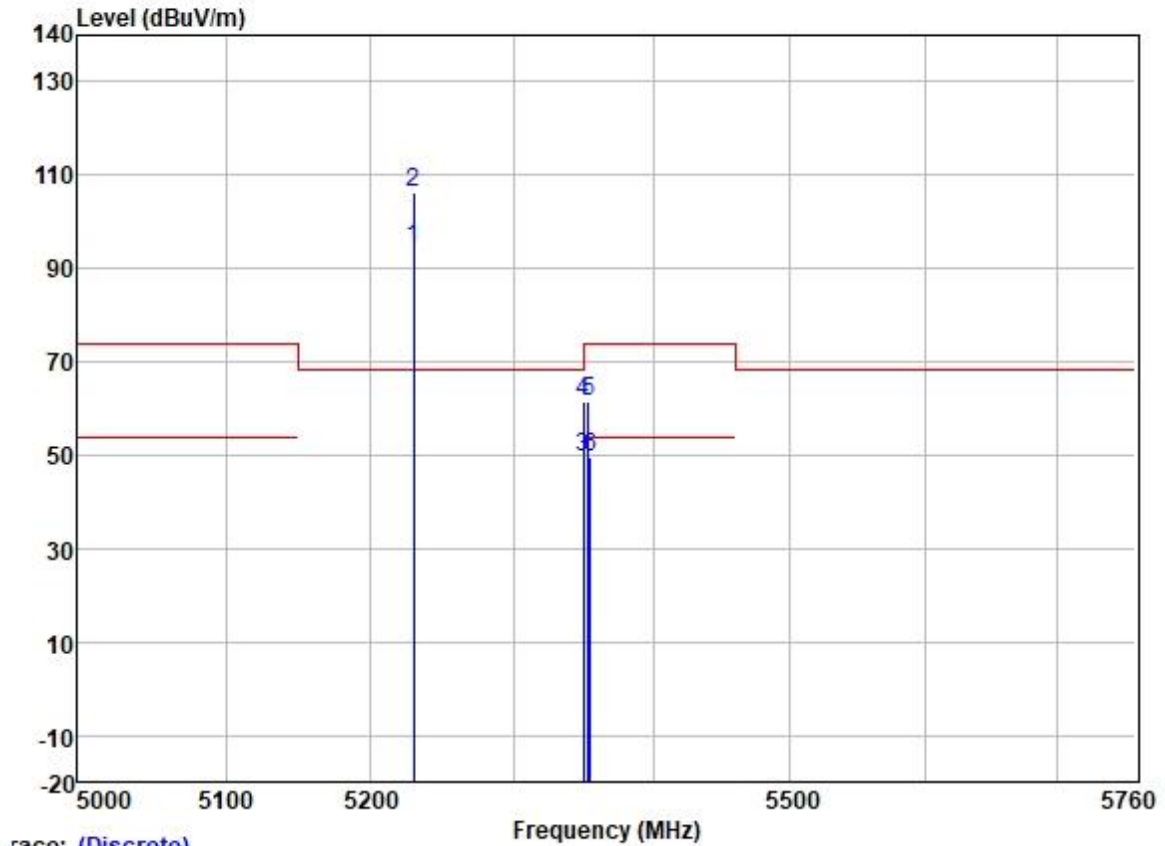
Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	91.85	31.74	5.70	36.87	92.42	-----	-----	HORIZONTAL Average
2 *	5230.000	103.13	31.74	5.70	36.87	103.70	68.20	35.50	HORIZONTAL Peak
3	5350.020	48.41	31.77	6.05	36.88	49.35	54.00	-4.65	HORIZONTAL Average
4	5350.020	60.67	31.77	6.05	36.88	61.61	74.00	-12.39	HORIZONTAL Peak
5	5354.155	61.28	31.78	6.03	36.88	62.21	74.00	-11.79	HORIZONTAL Peak
6	5359.675	48.55	31.78	6.03	36.88	49.48	54.00	-4.52	HORIZONTAL Average

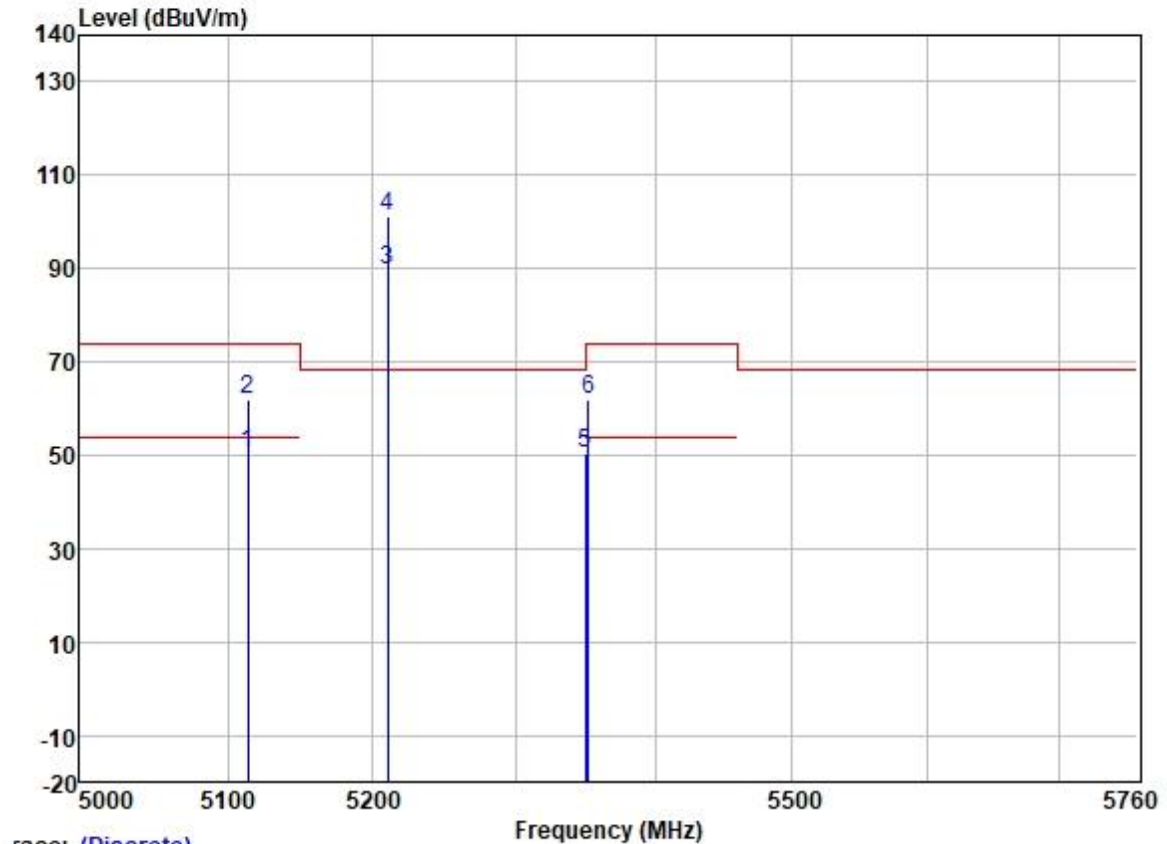
Test Mode: 18; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

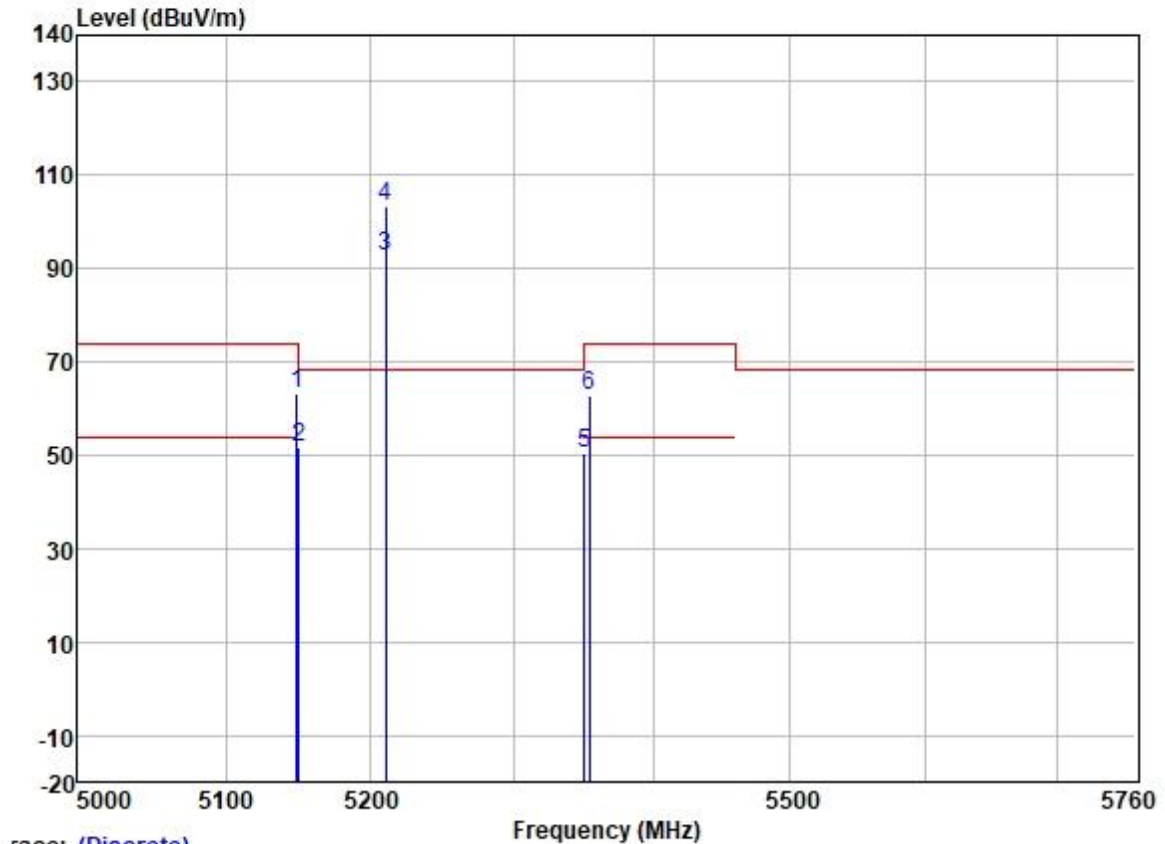
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	93.78	31.74	5.70	36.87	94.35	-----	-----	VERTICAL Average
2 *	5230.000	105.82	31.74	5.70	36.87	106.39	68.20	38.19	VERTICAL Peak
3	5350.020	48.43	31.77	6.05	36.88	49.37	54.00	-4.63	VERTICAL Average
4	5350.020	60.51	31.77	6.05	36.88	61.45	74.00	-12.55	VERTICAL Peak
5	5353.344	60.51	31.77	6.05	36.88	61.45	74.00	-12.55	VERTICAL Peak
6	5354.805	48.62	31.78	6.03	36.88	49.55	54.00	-4.45	VERTICAL Average

Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



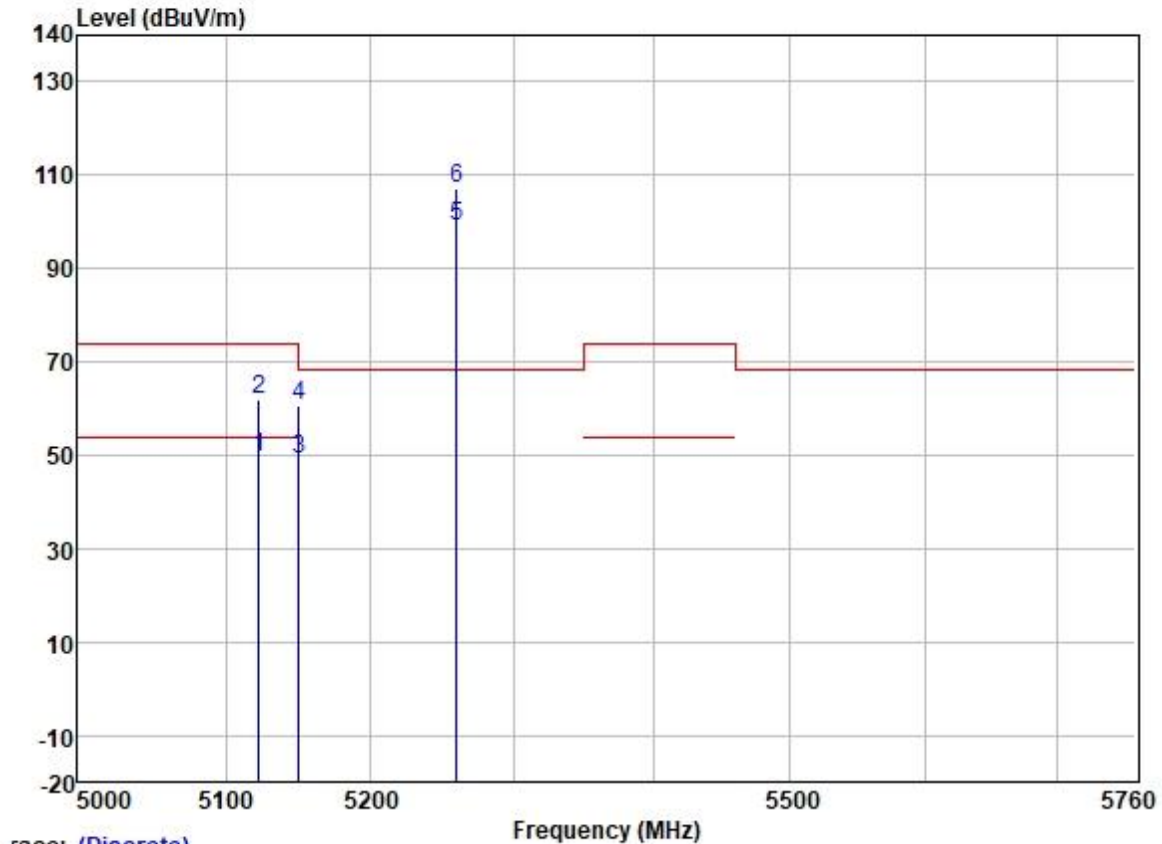
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5113.458	49.83	31.72	5.64	36.86	50.33	54.00	-3.67	HORIZONTAL Average
2	5113.458	61.30	31.72	5.64	36.86	61.80	74.00	-12.20	HORIZONTAL Peak
3	5210.000	89.13	31.74	5.65	36.87	89.65	-----	-----	HORIZONTAL Average
4 *	5210.000	100.83	31.74	5.65	36.87	101.35	68.20	33.15	HORIZONTAL Peak
5	5349.882	49.47	31.77	6.05	36.88	50.41	-----	-----	HORIZONTAL Average
6	5352.010	61.18	31.77	6.05	36.88	62.12	74.00	-11.88	HORIZONTAL Peak

Test Mode: 18; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 80MHz; Channel: middle



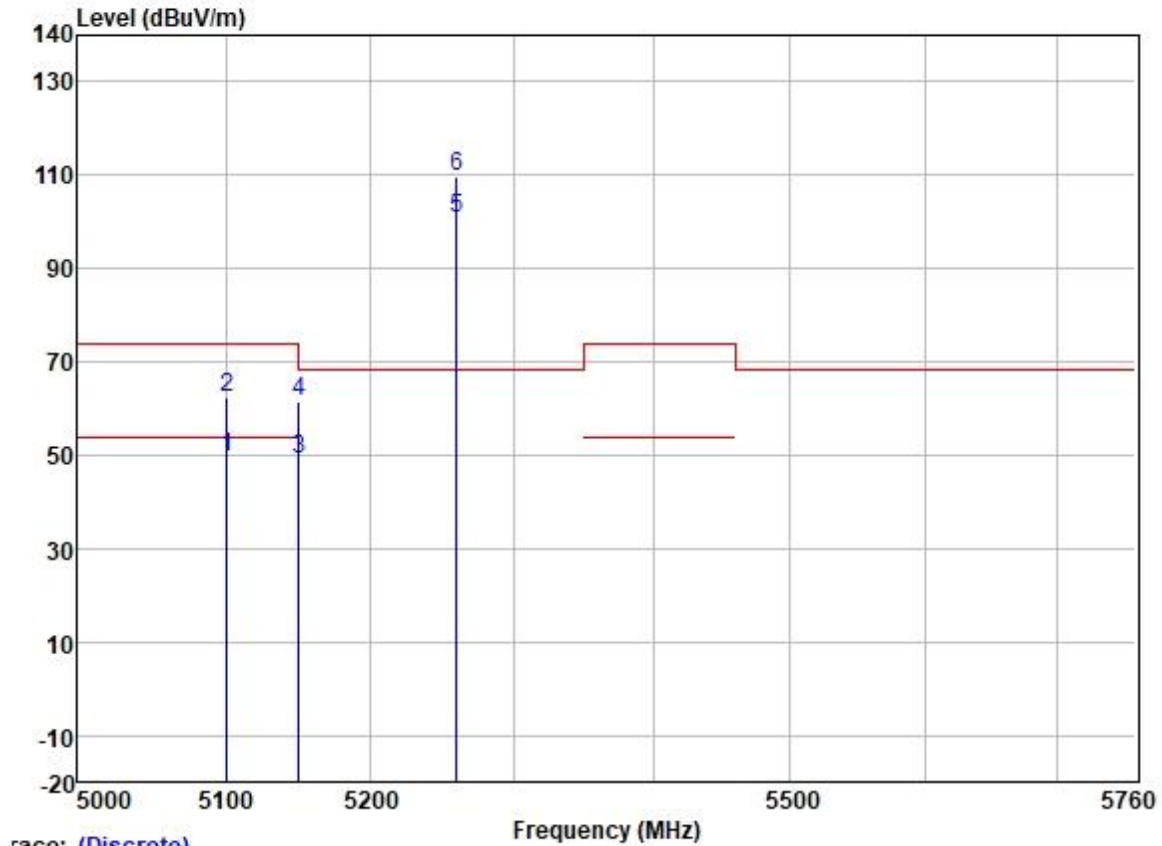
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.410	62.51	31.72	5.62	36.86	62.99	74.00	-11.01	VERTICAL	Peak
2	5149.947	51.03	31.72	5.62	36.86	51.51	54.00	-2.49	VERTICAL	Average
3	5210.000	92.27	31.74	5.65	36.87	92.79	-----	-----	VERTICAL	Average
4 *	5210.000	102.93	31.74	5.65	36.87	103.45	68.20	35.25	VERTICAL	Peak
5	5350.680	49.35	31.77	6.05	36.88	50.29	54.00	-3.71	VERTICAL	Average
6	5353.874	61.86	31.77	6.05	36.88	62.80	74.00	-11.20	VERTICAL	Peak

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



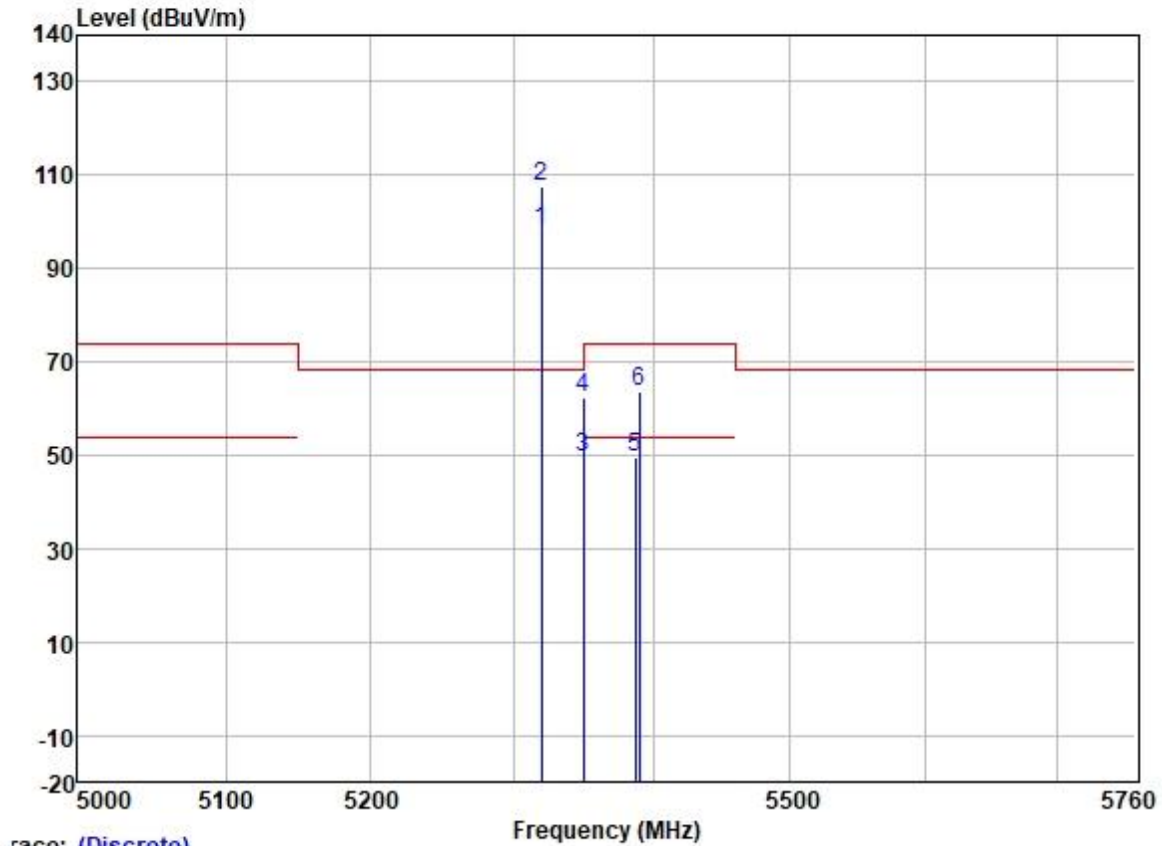
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5122.516	48.90	31.72	5.64	36.86	49.40	54.00	-4.60	HORIZONTAL	Average
2	5122.516	61.46	31.72	5.64	36.86	61.96	74.00	-12.04	HORIZONTAL	Peak
3	5149.980	48.59	31.72	5.62	36.86	49.07	54.00	-4.93	HORIZONTAL	Average
4	5149.980	60.22	31.72	5.62	36.86	60.70	74.00	-13.30	HORIZONTAL	Peak
5	5260.000	98.23	31.75	5.77	36.87	98.88	-----	-----	HORIZONTAL	Average
6 *	5260.000	106.63	31.75	5.77	36.87	107.28	68.20	39.08	HORIZONTAL	Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11a; 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		5100.708	48.92	31.72	5.65	36.86	49.43	54.00	-4.57	VERTICAL	Average
2		5100.708	61.66	31.72	5.65	36.86	62.17	74.00	-11.83	VERTICAL	Peak
3		5149.980	48.59	31.72	5.62	36.86	49.07	54.00	-4.93	VERTICAL	Average
4		5149.980	61.02	31.72	5.62	36.86	61.50	74.00	-12.50	VERTICAL	Peak
5		5260.000	99.92	31.75	5.77	36.87	100.57	-----	-----	VERTICAL	Average
6	*	5260.000	108.90	31.75	5.77	36.87	109.55	68.20	41.35	VERTICAL	Peak

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



Trace: (Discrete)

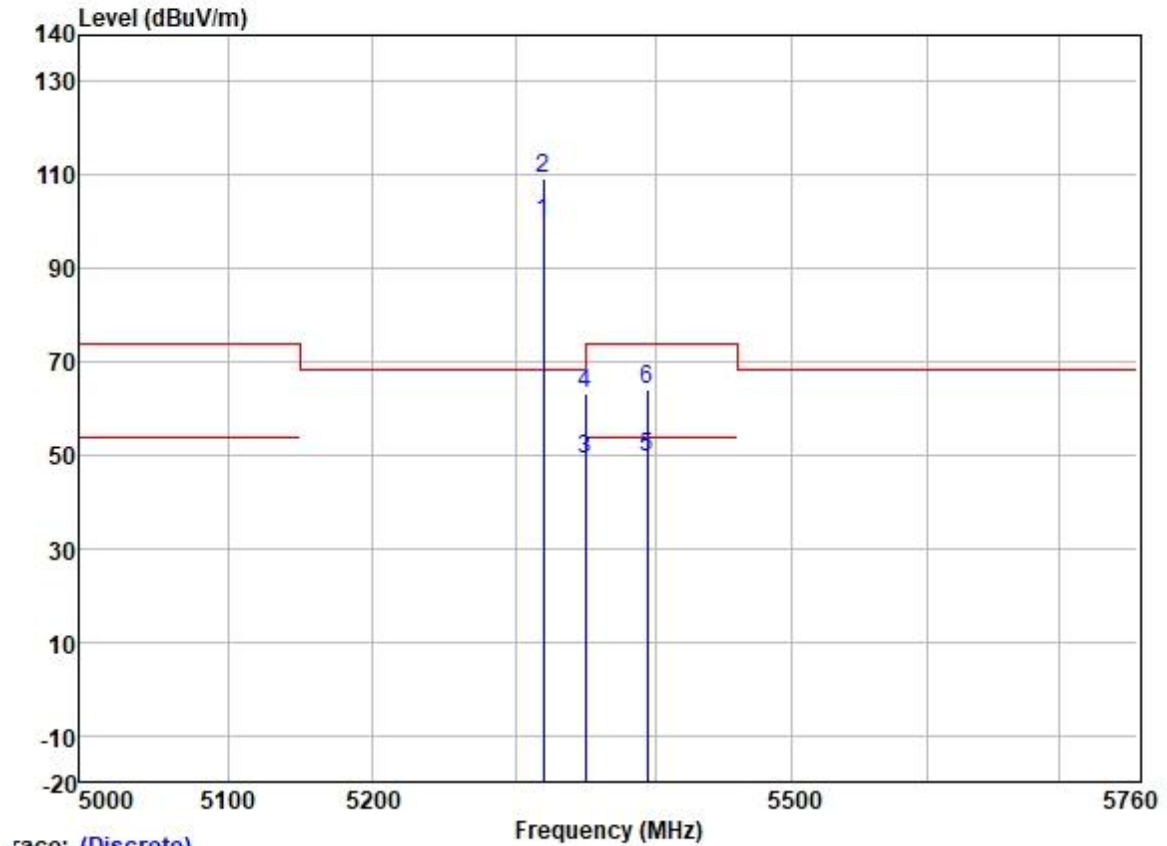
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5320.000	97.12	31.77	6.08	36.88	98.09	-----	-----	HORIZONTAL	Average
2 *	5320.000	106.44	31.77	6.08	36.88	107.41	68.20	39.21	HORIZONTAL	Peak
3	5350.020	48.46	31.77	6.05	36.88	49.40	54.00	-4.60	HORIZONTAL	Average
4	5350.020	61.27	31.77	6.05	36.88	62.21	74.00	-11.79	HORIZONTAL	Peak
5	5387.297	48.81	31.78	6.00	36.88	49.71	54.00	-4.29	HORIZONTAL	Average
6	5389.714	62.62	31.78	6.00	36.88	63.52	74.00	-10.48	HORIZONTAL	Peak



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-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.

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

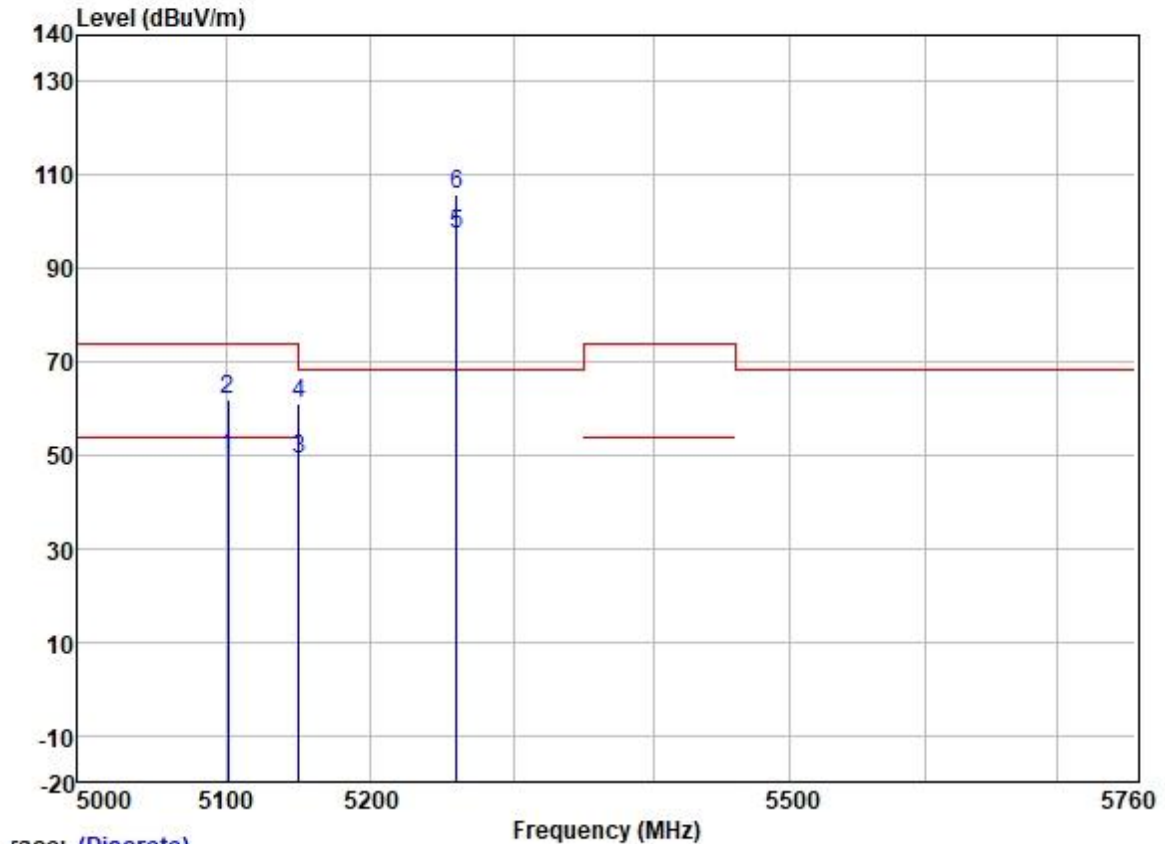
Test Mode: 20; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	99.03	31.77	6.08	36.88	100.00	-----	-----	VERTICAL Average
2 *	5320.000	108.43	31.77	6.08	36.88	109.40	68.20	41.20	VERTICAL Peak
3	5350.020	48.39	31.77	6.05	36.88	49.33	54.00	-4.67	VERTICAL Average
4	5350.020	62.17	31.77	6.05	36.88	63.11	74.00	-10.89	VERTICAL Peak
5	5394.048	48.81	31.78	6.00	36.88	49.71	54.00	-4.29	VERTICAL Average
6	5394.048	63.10	31.78	6.00	36.88	64.00	74.00	-10.00	VERTICAL Peak

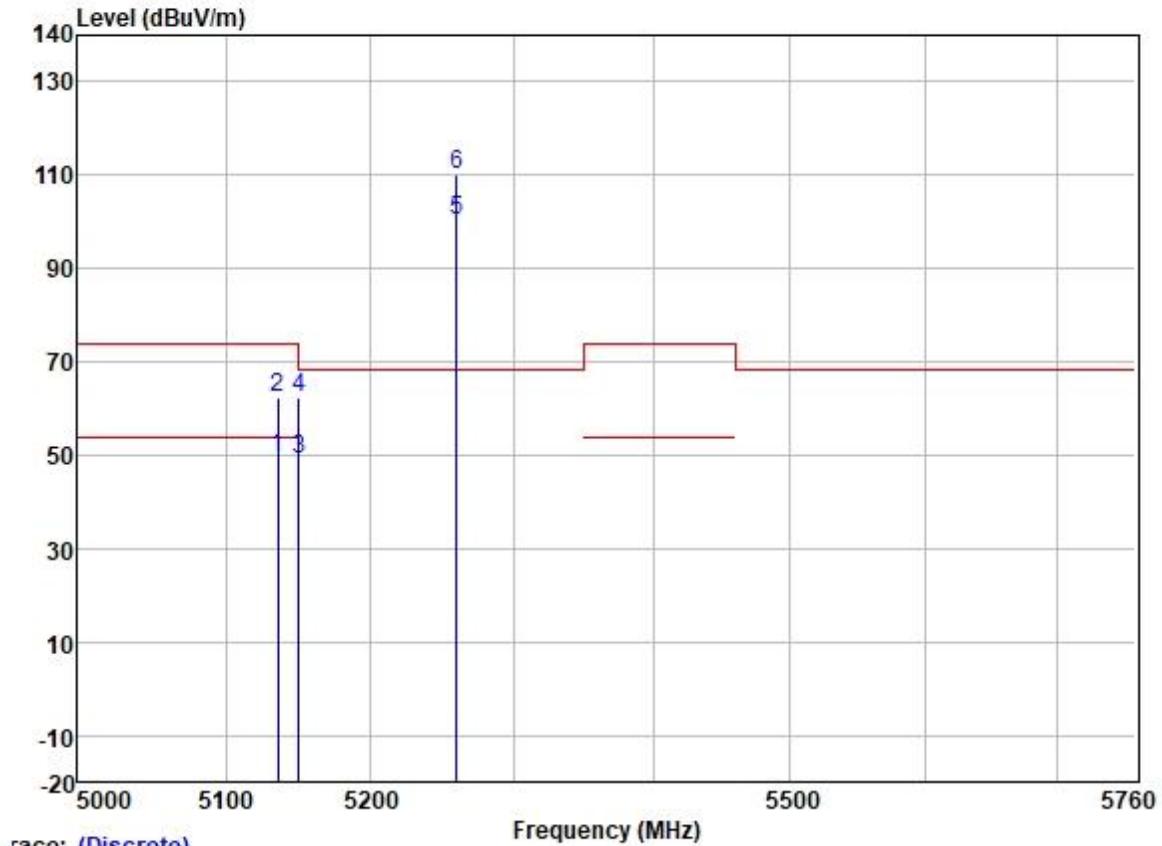
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5101.416	49.08	31.72	5.65	36.86	49.59	54.00	-4.41	HORIZONTAL Average
2	5101.416	61.59	31.72	5.65	36.86	62.10	74.00	-11.90	HORIZONTAL Peak
3	5149.980	48.70	31.72	5.62	36.86	49.18	54.00	-4.82	HORIZONTAL Average
4	5149.980	60.54	31.72	5.62	36.86	61.02	74.00	-12.98	HORIZONTAL Peak
5	5260.000	96.56	31.75	5.77	36.87	97.21	-----	-----	HORIZONTAL Average
6 *	5260.000	105.36	31.75	5.77	36.87	106.01	68.20	37.81	HORIZONTAL Peak

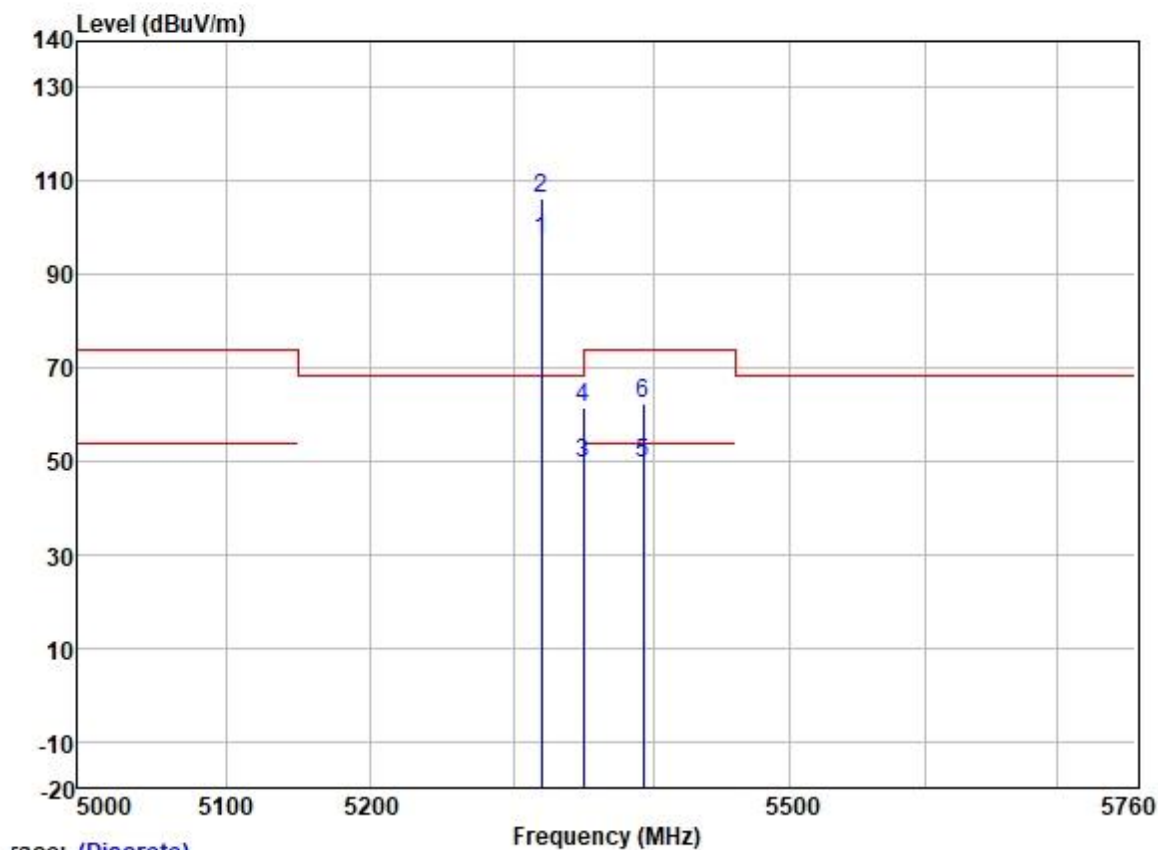
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5135.680	48.92	31.72	5.63	36.86	49.41	54.00	-4.59	VERTICAL
2	5135.680	61.71	31.72	5.63	36.86	62.20	74.00	-11.80	VERTICAL
3	5149.980	48.59	31.72	5.62	36.86	49.07	54.00	-4.93	VERTICAL
4	5149.980	61.80	31.72	5.62	36.86	62.28	74.00	-11.72	VERTICAL
5	5260.000	99.60	31.75	5.77	36.87	100.25	-----	-----	VERTICAL
6 *	5260.000	109.57	31.75	5.77	36.87	110.22	68.20	42.02	VERTICAL

Test Mode: 20; 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	5320.000	96.15	31.77	6.08	36.88	97.12	-----	-----	HORIZONTAL	Average
2 *	5320.000	105.39	31.77	6.08	36.88	106.36	68.20	38.16	HORIZONTAL	Peak
3	5350.020	48.43	31.77	6.05	36.88	49.37	54.00	-4.63	HORIZONTAL	Average
4	5350.020	60.53	31.77	6.05	36.88	61.47	74.00	-12.53	HORIZONTAL	Peak
5	5392.536	48.86	31.78	6.00	36.88	49.76	54.00	-4.24	HORIZONTAL	Average
6	5392.536	61.56	31.78	6.00	36.88	62.46	74.00	-11.54	HORIZONTAL	Peak



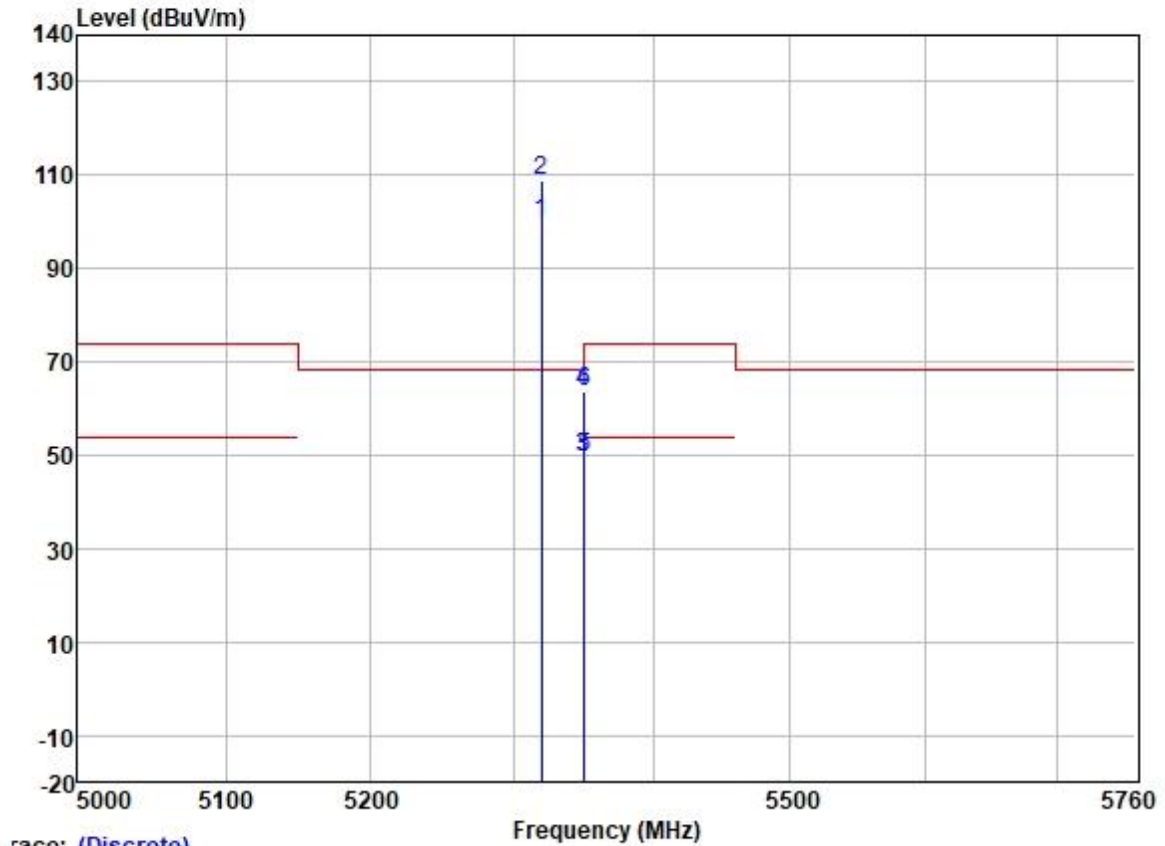
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 or copied in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the Company. Any use 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.

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

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



Trace: (Discrete)

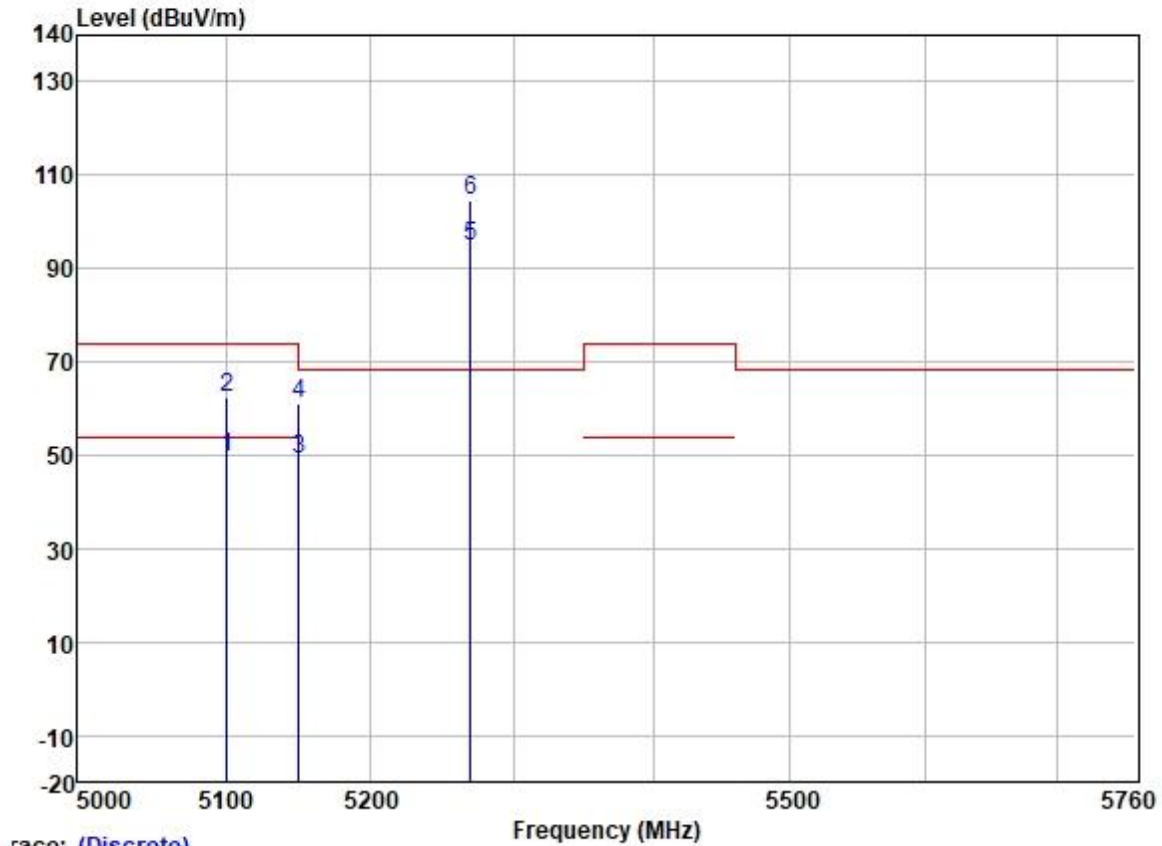
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	98.74	31.77	6.08	36.88	99.71	-----	-----	VERTICAL Average
2 *	5320.000	108.08	31.77	6.08	36.88	109.05	68.20	40.85	VERTICAL Peak
3	5350.020	48.50	31.77	6.05	36.88	49.44	54.00	-4.56	VERTICAL Average
4	5350.020	62.69	31.77	6.05	36.88	63.63	74.00	-10.37	VERTICAL Peak
5	5350.566	48.69	31.77	6.05	36.88	49.63	54.00	-4.37	VERTICAL Average
6	5350.566	62.51	31.77	6.05	36.88	63.45	74.00	-10.55	VERTICAL Peak



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

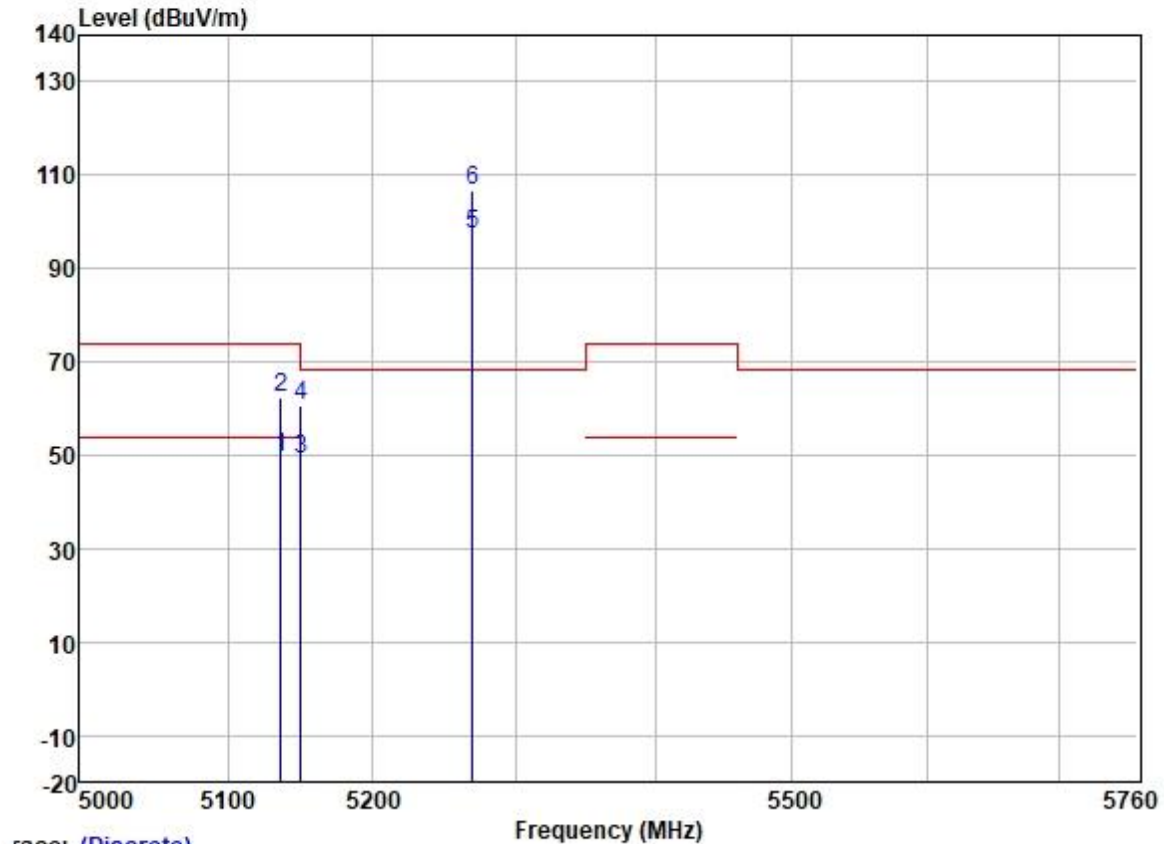
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5100.981	48.88	31.72	5.65	36.86	49.39	54.00	-4.61	HORIZONTAL Average
2	5100.981	61.76	31.72	5.65	36.86	62.27	74.00	-11.73	HORIZONTAL Peak
3	5149.980	48.52	31.72	5.62	36.86	49.00	54.00	-5.00	HORIZONTAL Average
4	5149.980	60.75	31.72	5.62	36.86	61.23	74.00	-12.77	HORIZONTAL Peak
5	5270.000	93.95	31.75	5.80	36.87	94.63	-----	-----	HORIZONTAL Average
6 *	5270.000	104.07	31.75	5.80	36.87	104.75	68.20	36.55	HORIZONTAL Peak

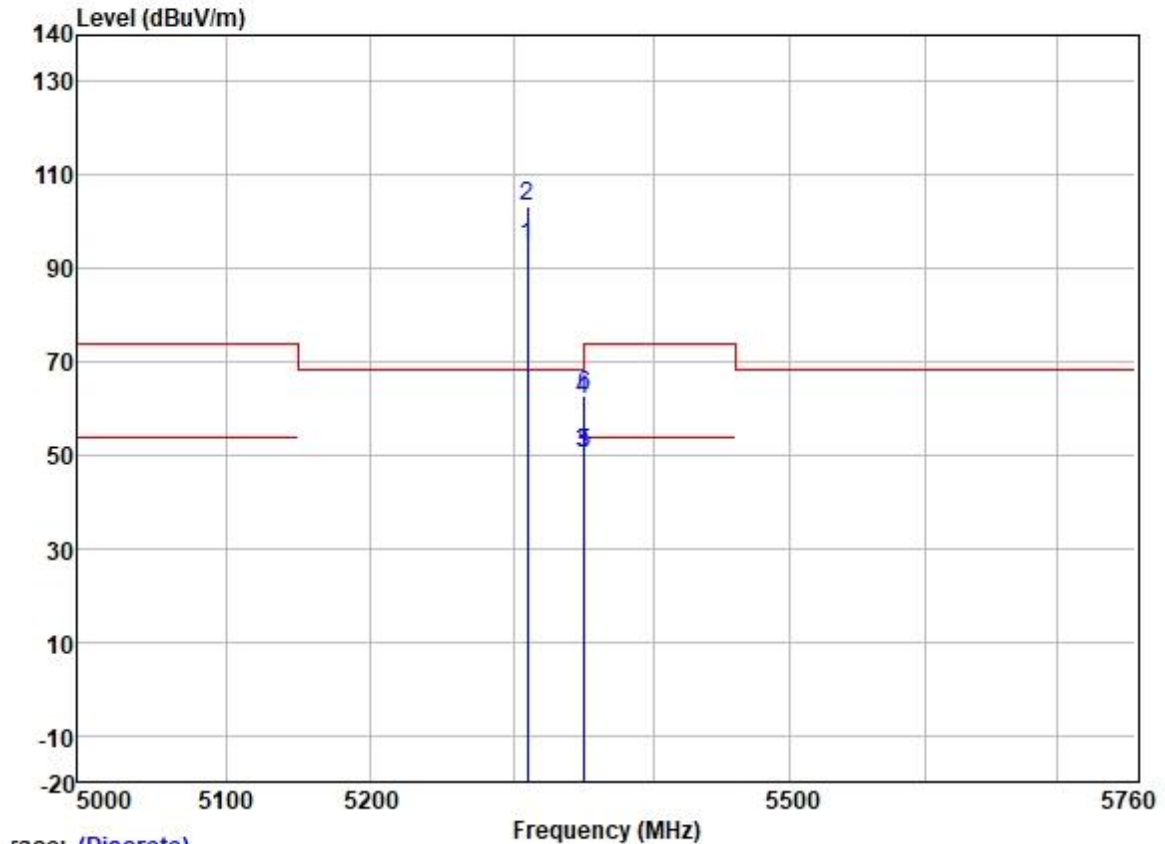
Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5136.620	48.96	31.72	5.63	36.86	49.45	54.00	-4.55	VERTICAL	Average
2	5136.620	62.05	31.72	5.63	36.86	62.54	74.00	-11.46	VERTICAL	Peak
3	5149.980	48.50	31.72	5.62	36.86	48.98	54.00	-5.02	VERTICAL	Average
4	5149.980	60.37	31.72	5.62	36.86	60.85	74.00	-13.15	VERTICAL	Peak
5	5270.000	96.61	31.75	5.80	36.87	97.29	-----	-----	VERTICAL	Average
6 *	5270.000	106.25	31.75	5.80	36.87	106.93	68.20	38.73	VERTICAL	Peak

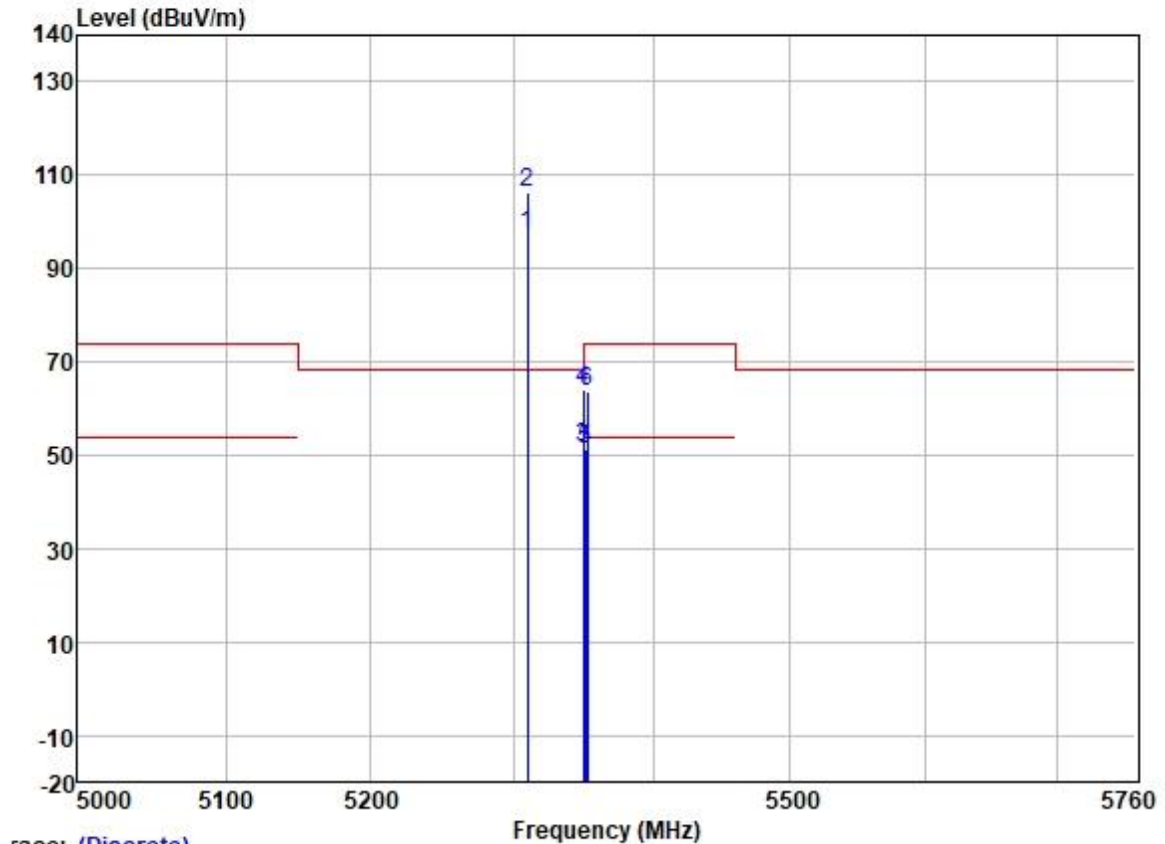
Test Mode: 20; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

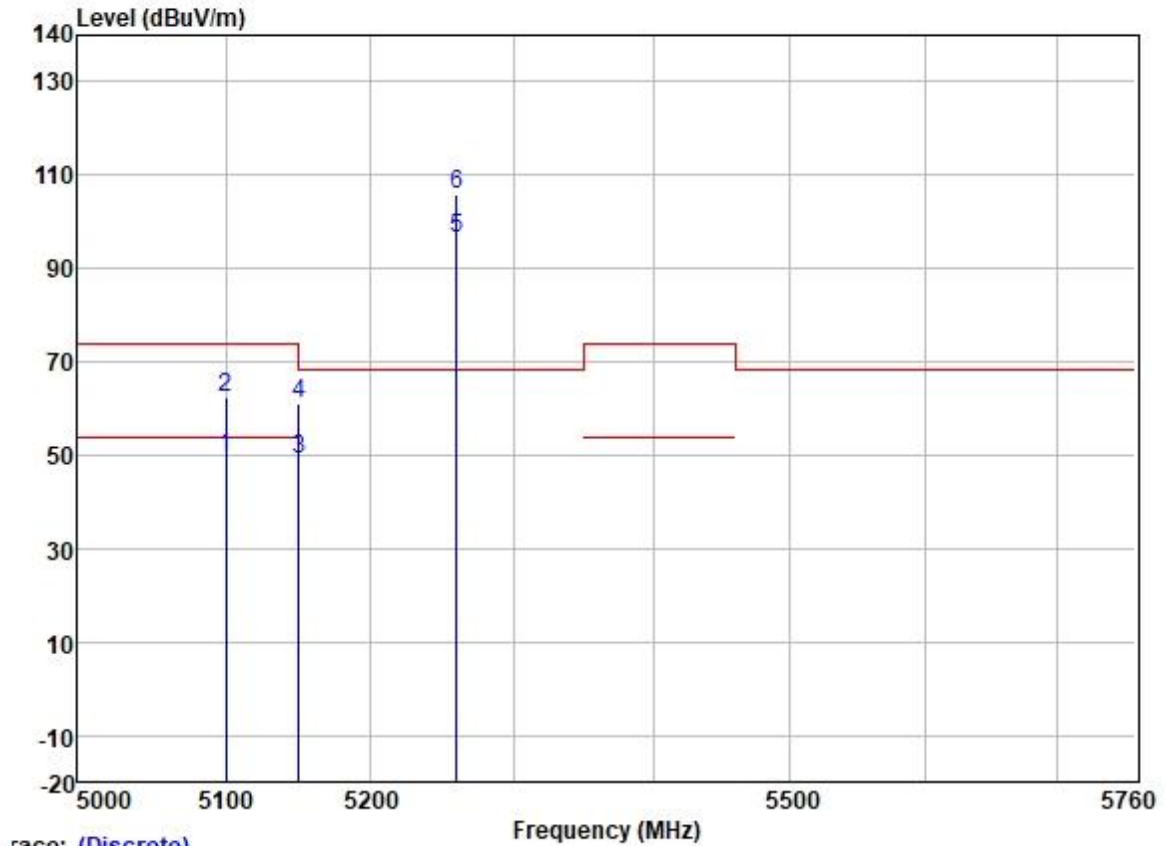
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	93.65	31.77	6.08	36.87	94.63	-----	-----	HORIZONTAL Average
2 *	5310.000	102.34	31.77	6.08	36.87	103.32	68.20	35.12	HORIZONTAL Peak
3	5350.020	49.60	31.77	6.05	36.88	50.54	54.00	-3.46	HORIZONTAL Average
4	5350.020	60.90	31.77	6.05	36.88	61.84	74.00	-12.16	HORIZONTAL Peak
5	5350.714	49.40	31.77	6.05	36.88	50.34	54.00	-3.66	HORIZONTAL Average
6	5350.714	61.65	31.77	6.05	36.88	62.59	74.00	-11.41	HORIZONTAL Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; 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	5310.000	96.17	31.77	6.08	36.87	97.15	-----	-----	VERTICAL	Average
2 *	5310.000	105.18	31.77	6.08	36.87	106.16	68.20	37.96	VERTICAL	Peak
3	5350.020	50.83	31.77	6.05	36.88	51.77	54.00	-2.23	VERTICAL	Average
4	5350.020	63.08	31.77	6.05	36.88	64.02	74.00	-9.98	VERTICAL	Peak
5	5350.955	50.36	31.77	6.05	36.88	51.30	54.00	-2.70	VERTICAL	Average
6	5352.398	62.85	31.77	6.05	36.88	63.79	74.00	-10.21	VERTICAL	Peak

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



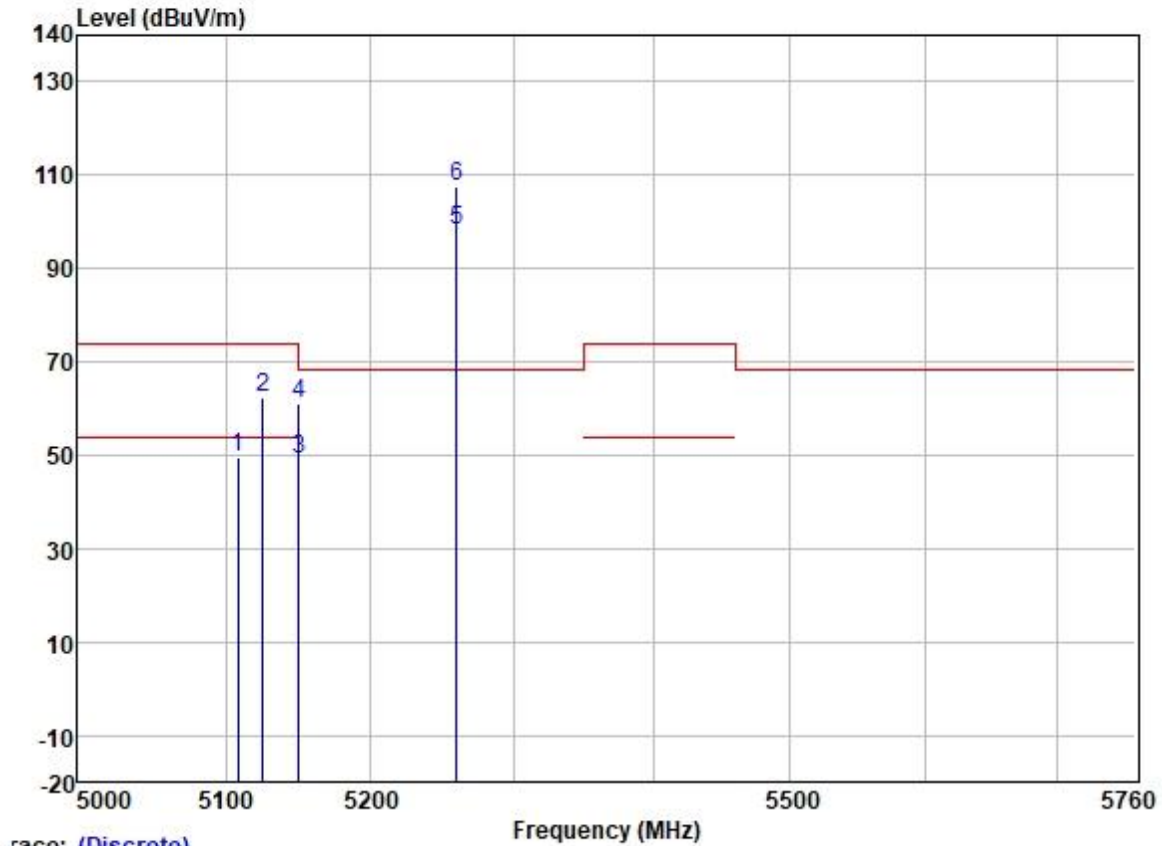
Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5100.000	48.94	31.72	5.65	36.86	49.45	54.00	-4.55	HORIZONTAL Average
2	5100.000	61.86	31.72	5.65	36.86	62.37	74.00	-11.63	HORIZONTAL Peak
3	5149.980	48.50	31.72	5.62	36.86	48.98	54.00	-5.02	HORIZONTAL Average
4	5149.980	60.69	31.72	5.62	36.86	61.17	74.00	-12.83	HORIZONTAL Peak
5	5260.000	95.76	31.75	5.77	36.87	96.41	-----	-----	HORIZONTAL Average
6 *	5260.000	105.02	31.75	5.77	36.87	105.67	68.20	37.47	HORIZONTAL Peak



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-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.

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



Trace: (Discrete)

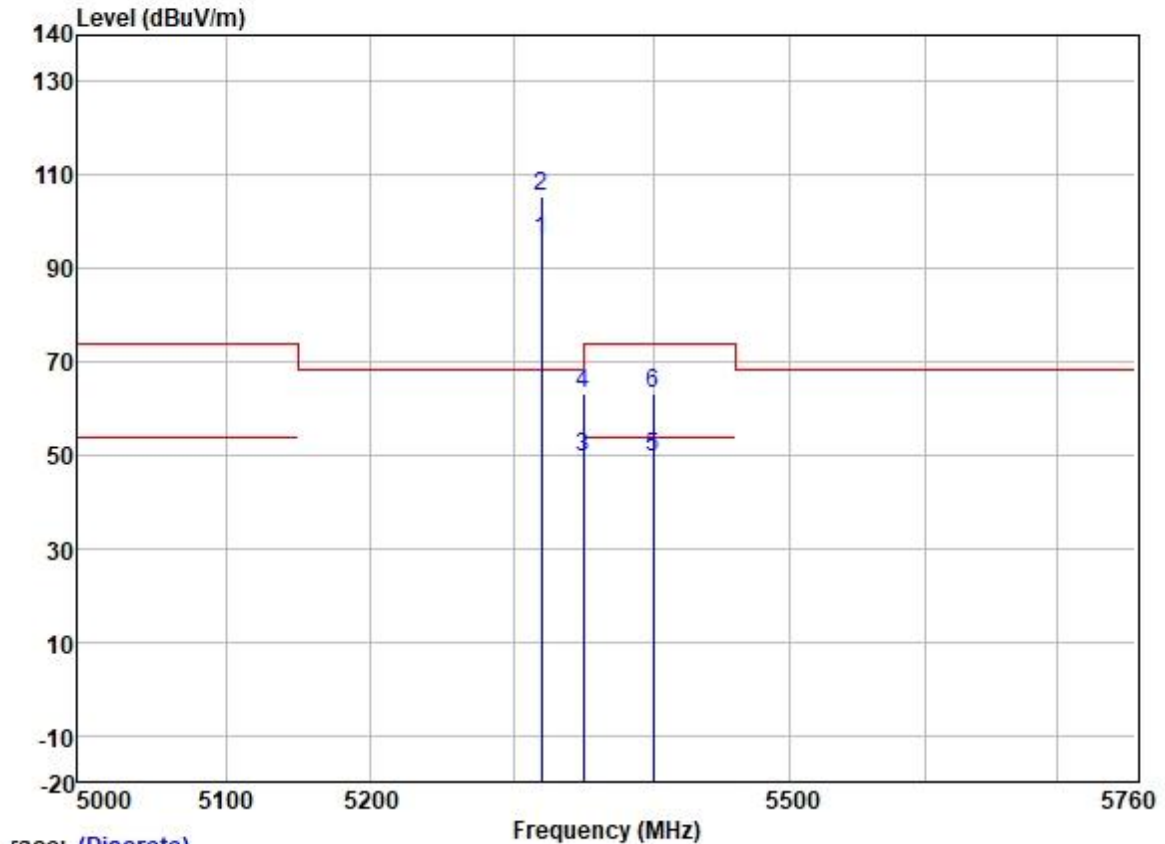
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5108.321	48.91	31.72	5.65	36.86	49.42	54.00	-4.58	VERTICAL Average
2	5125.359	61.73	31.72	5.64	36.86	62.23	74.00	-11.77	VERTICAL Peak
3	5149.980	48.49	31.72	5.62	36.86	48.97	54.00	-5.03	VERTICAL Average
4	5149.980	60.57	31.72	5.62	36.86	61.05	74.00	-12.95	VERTICAL Peak
5	5260.000	97.50	31.75	5.77	36.87	98.15	-----	-----	VERTICAL Average
6 *	5260.000	107.12	31.75	5.77	36.87	107.77	68.20	39.57	VERTICAL Peak



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-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.

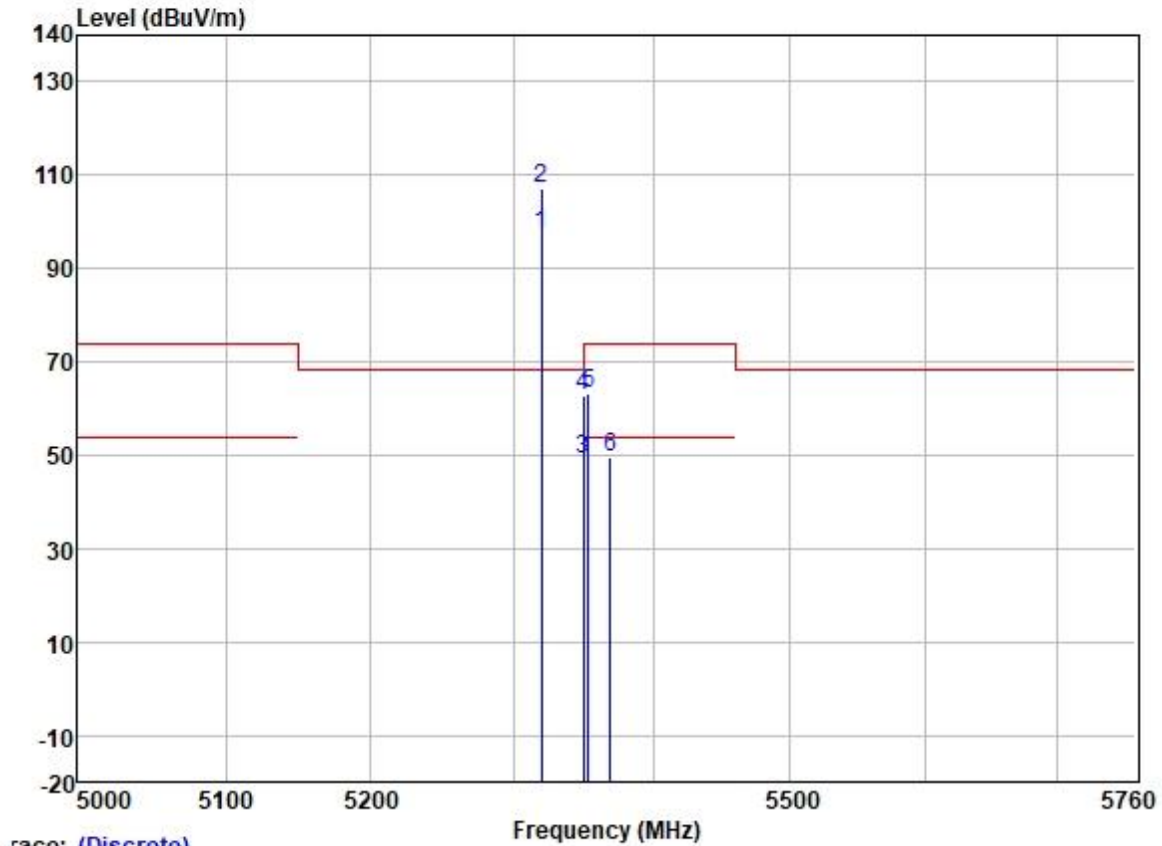
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5320.000	94.93	31.77	6.08	36.88	95.90	-----	-----
2 *	5320.000	104.63	31.77	6.08	36.88	105.60	68.20	37.40
3	5350.020	48.48	31.77	6.05	36.88	49.42	54.00	-4.58
4	5350.020	62.19	31.77	6.05	36.88	63.13	74.00	-10.87
5	5399.697	48.81	31.78	6.00	36.88	49.71	54.00	-4.29
6	5399.697	62.10	31.78	6.00	36.88	63.00	74.00	-11.00

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



Trace: (Discrete)

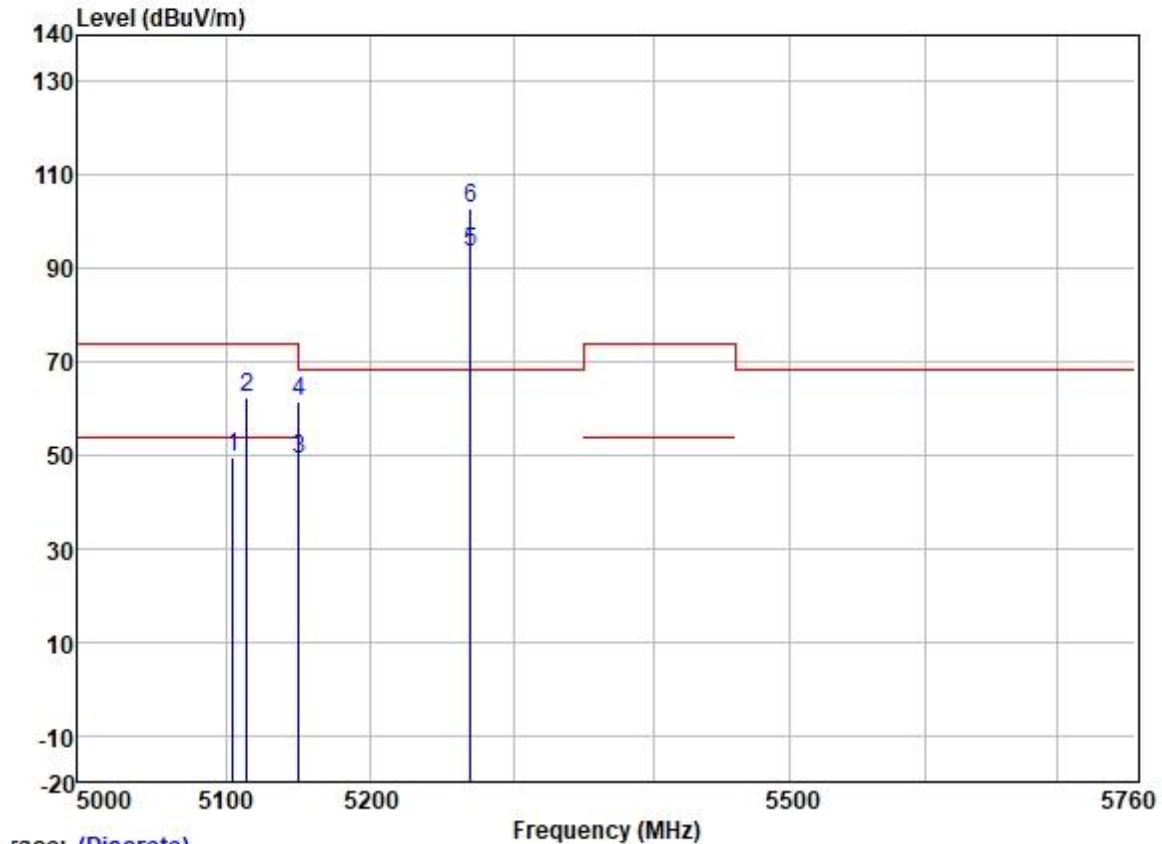
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	96.27	31.77	6.08	36.88	97.24	-----	-----	VERTICAL Average
2 *	5320.000	106.37	31.77	6.08	36.88	107.34	68.20	39.14	VERTICAL Peak
3	5350.020	48.38	31.77	6.05	36.88	49.32	54.00	-4.68	VERTICAL Average
4	5350.020	61.63	31.77	6.05	36.88	62.57	74.00	-11.43	VERTICAL Peak
5	5353.368	62.21	31.77	6.05	36.88	63.15	74.00	-10.85	VERTICAL Peak
6	5369.000	48.77	31.78	6.03	36.88	49.70	54.00	-4.30	VERTICAL Average



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-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.

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

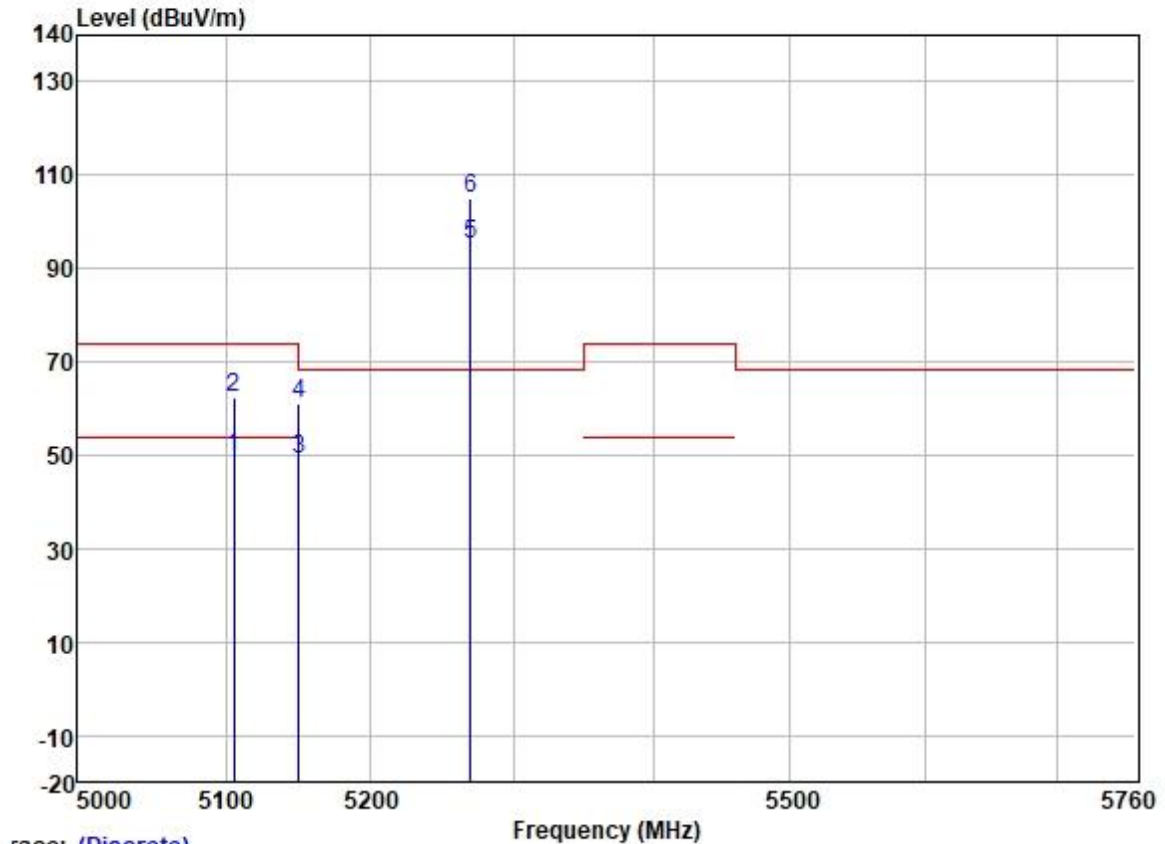
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5105.103	48.91	31.72	5.65	36.86	49.42	54.00	-4.58	HORIZONTAL Average
2	5114.734	61.91	31.72	5.64	36.86	62.41	74.00	-11.59	HORIZONTAL Peak
3	5149.980	48.46	31.72	5.62	36.86	48.94	54.00	-5.06	HORIZONTAL Average
4	5149.980	61.11	31.72	5.62	36.86	61.59	74.00	-12.41	HORIZONTAL Peak
5	5270.000	92.77	31.75	5.80	36.87	93.45	-----	-----	HORIZONTAL Average
6 *	5270.000	102.03	31.75	5.80	36.87	102.71	68.20	34.51	HORIZONTAL Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

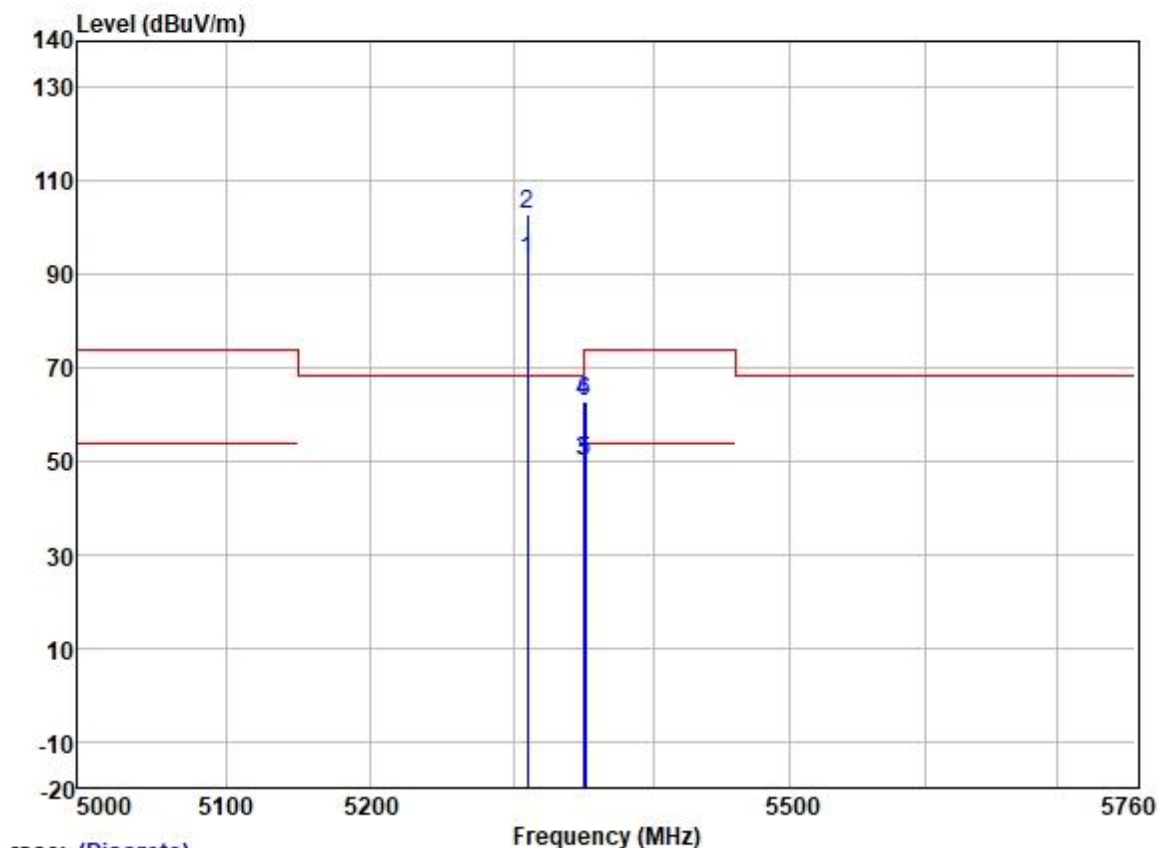
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5105.299	49.06	31.72	5.65	36.86	49.57	54.00	-4.43	VERTICAL	Average
2	5105.299	61.83	31.72	5.65	36.86	62.34	74.00	-11.66	VERTICAL	Peak
3	5149.980	48.52	31.72	5.62	36.86	49.00	54.00	-5.00	VERTICAL	Average
4	5149.980	60.45	31.72	5.62	36.86	60.93	74.00	-13.07	VERTICAL	Peak
5	5270.000	94.44	31.75	5.80	36.87	95.12	-----	-----	VERTICAL	Average
6 *	5270.000	104.42	31.75	5.80	36.87	105.10	68.20	36.90	VERTICAL	Peak



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: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; 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	5310.000	92.24	31.77	6.08	36.87	93.22	-----	-----	HORIZONTAL	Average
2 *	5310.000	101.94	31.77	6.08	36.87	102.92	68.20	34.72	HORIZONTAL	Peak
3	5350.020	49.24	31.77	6.05	36.88	50.18	54.00	-3.82	HORIZONTAL	Average
4	5350.020	61.63	31.77	6.05	36.88	62.57	74.00	-11.43	HORIZONTAL	Peak
5	5350.834	49.12	31.77	6.05	36.88	50.06	54.00	-3.94	HORIZONTAL	Average
6	5350.834	61.65	31.77	6.05	36.88	62.59	74.00	-11.41	HORIZONTAL	Peak



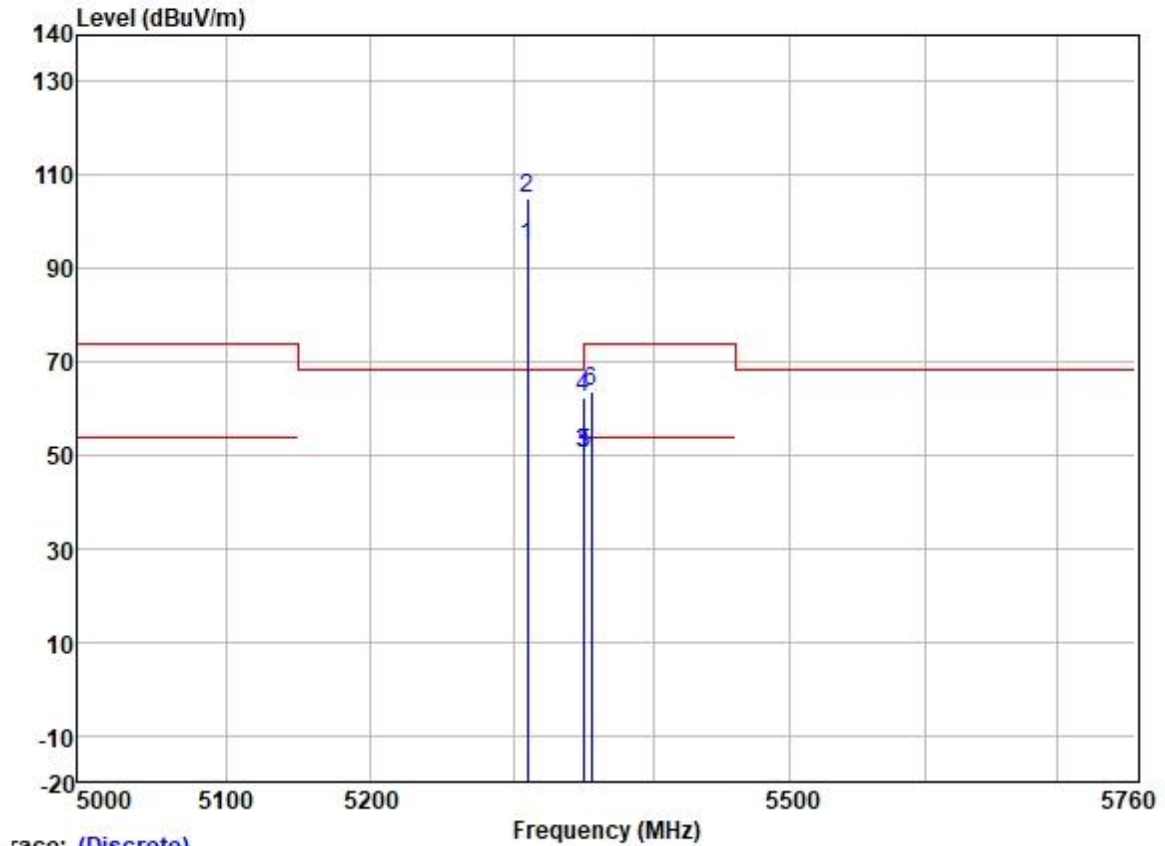
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 strictly prohibited and may result in severe civil or criminal penalties, including damages and imprisonment. 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.

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

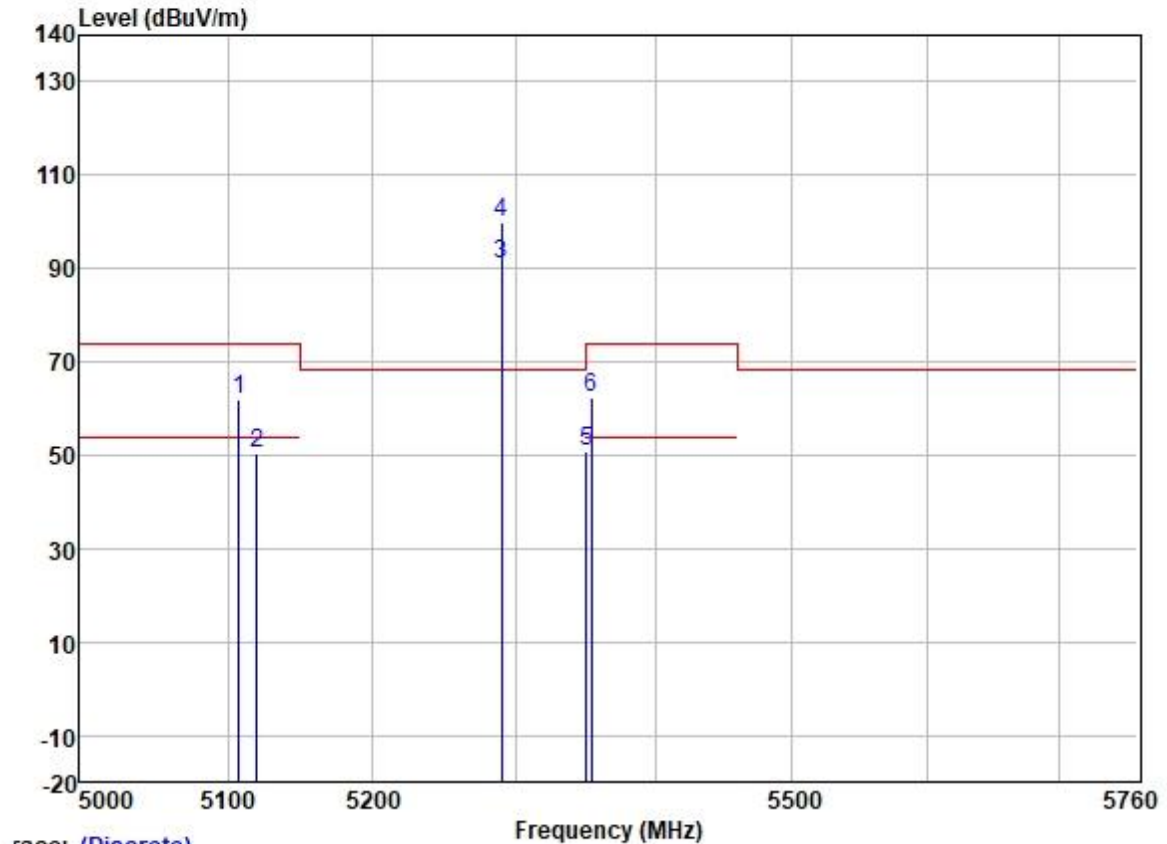
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com
 No.198 Kezhu Road, SciencePark, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn

Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



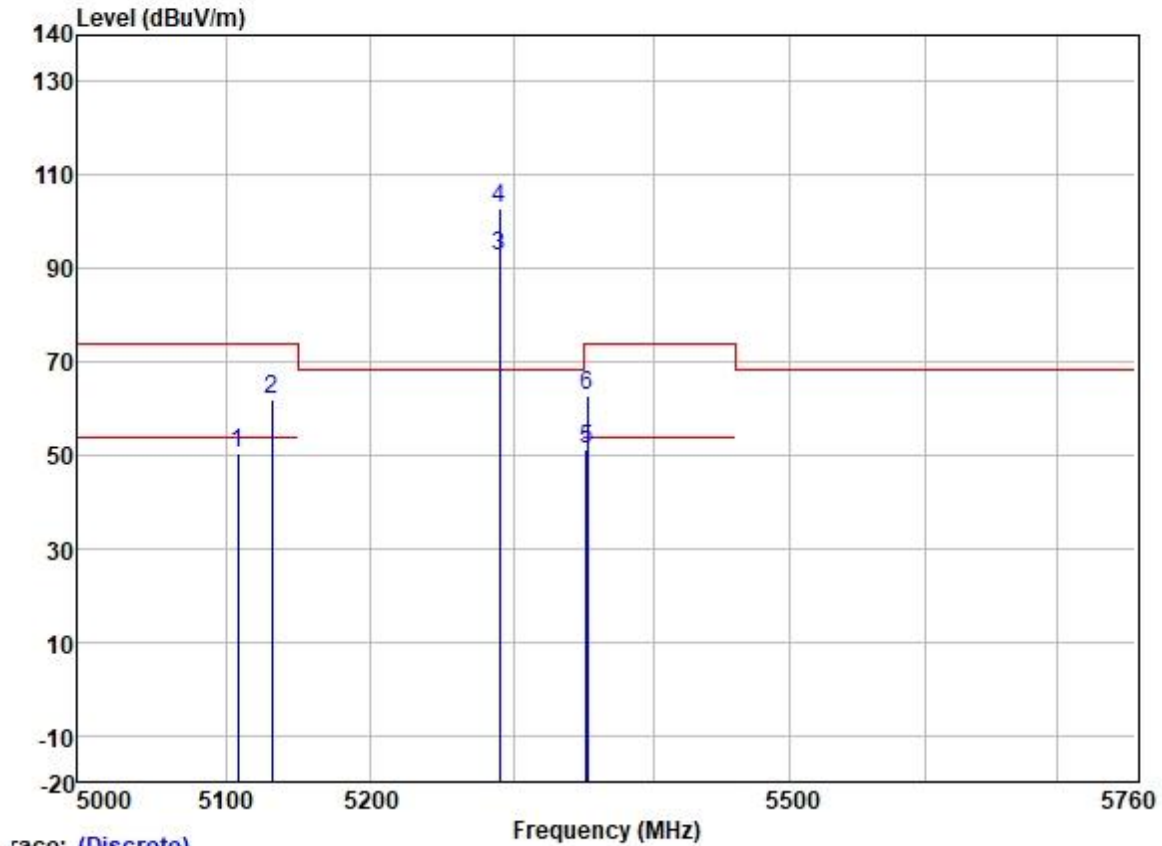
race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5310.000	93.79	31.77	6.08	36.87	94.77	-----	-----	VERTICAL	Average
2 *	5310.000	104.09	31.77	6.08	36.87	105.07	68.20	36.87	VERTICAL	Peak
3	5350.020	49.61	31.77	6.05	36.88	50.55	54.00	-3.45	VERTICAL	Average
4	5350.020	61.60	31.77	6.05	36.88	62.54	74.00	-11.46	VERTICAL	Peak
5	5350.474	49.49	31.77	6.05	36.88	50.43	54.00	-3.57	VERTICAL	Average
6	5355.165	62.75	31.78	6.03	36.88	63.68	74.00	-10.32	VERTICAL	Peak

Test Mode: 20; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5107.293	61.21	31.72	5.65	36.86	61.72	74.00	-12.28	HORIZONTAL	Peak
2	5120.154	49.83	31.72	5.64	36.86	50.33	54.00	-3.67	HORIZONTAL	Average
3	5290.000	89.83	31.76	6.00	36.87	90.72	-----	-----	HORIZONTAL	Average
4 *	5290.000	98.96	31.76	6.00	36.87	99.85	68.20	31.65	HORIZONTAL	Peak
5	5350.229	49.94	31.77	6.05	36.88	50.88	54.00	-3.12	HORIZONTAL	Average
6	5354.206	61.42	31.78	6.03	36.88	62.35	74.00	-11.65	HORIZONTAL	Peak

Test Mode: 20; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



Trace: (Discrete)

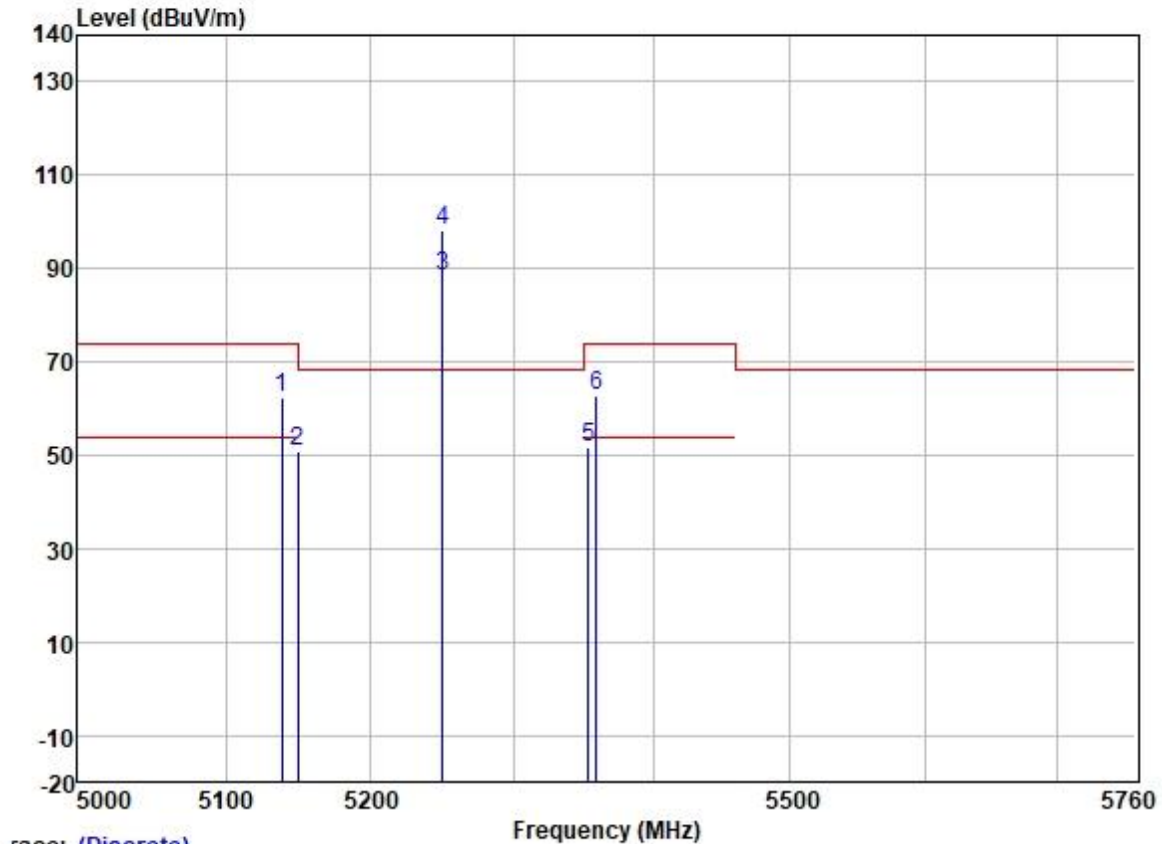
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5108.169	49.70	31.72	5.65	36.86	50.21	54.00	-3.79	VERTICAL
2	5131.287	61.30	31.72	5.63	36.86	61.79	74.00	-12.21	VERTICAL
3	5290.000	91.56	31.76	6.00	36.87	92.45	-----	-----	VERTICAL
4 *	5290.000	102.11	31.76	6.00	36.87	103.00	68.20	34.80	VERTICAL
5	5351.758	50.48	31.77	6.05	36.88	51.42	54.00	-2.58	VERTICAL
6	5352.676	61.63	31.77	6.05	36.88	62.57	74.00	-11.43	VERTICAL



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.

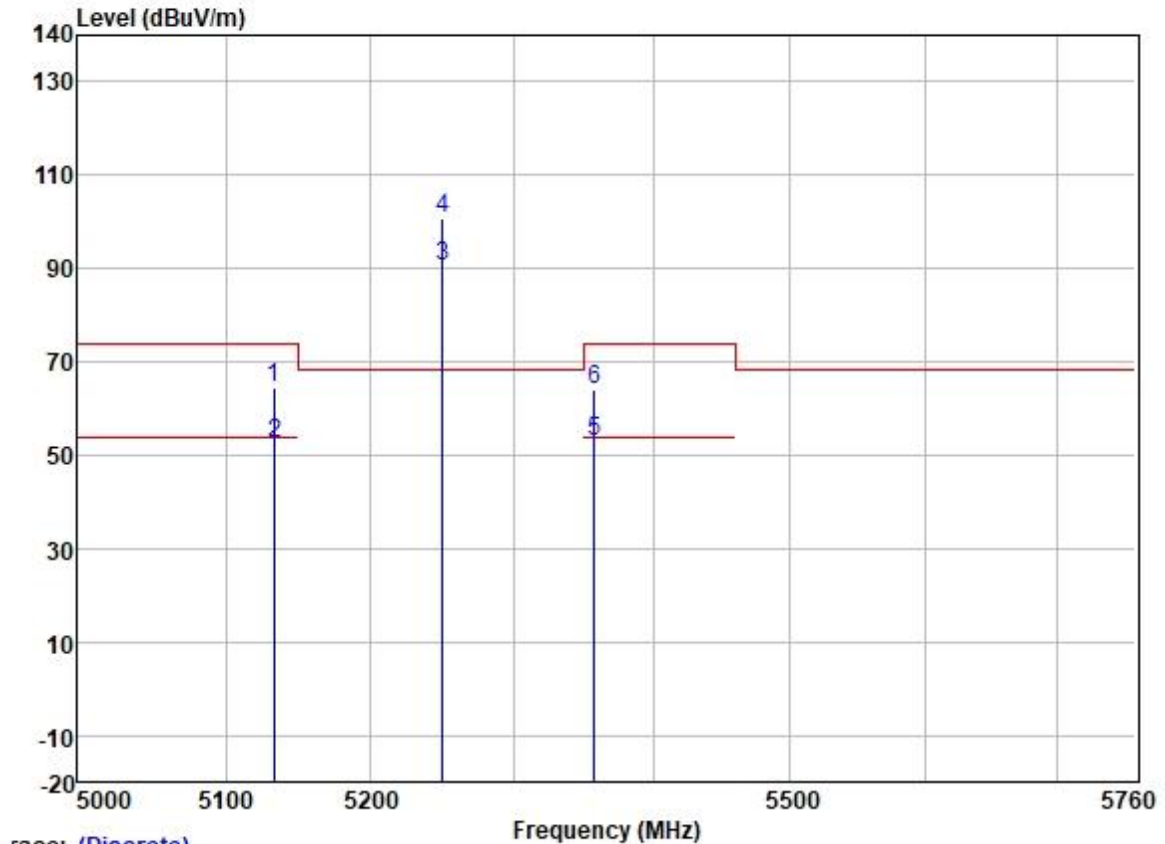
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 20; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5138.625	61.97	31.72	5.63	36.86	62.46	74.00	-11.54	HORIZONTAL	Peak
2	5149.209	50.23	31.72	5.62	36.86	50.71	54.00	-3.29	HORIZONTAL	Average
3	5250.000	87.79	31.75	5.77	36.87	88.44	-----	-----	HORIZONTAL	Average
4 *	5250.000	97.50	31.75	5.77	36.87	98.15	68.20	29.95	HORIZONTAL	Peak
5	5352.981	50.86	31.77	6.05	36.88	51.80	54.00	-2.20	HORIZONTAL	Average
6	5358.798	61.73	31.78	6.03	36.88	62.66	74.00	-11.34	HORIZONTAL	Peak

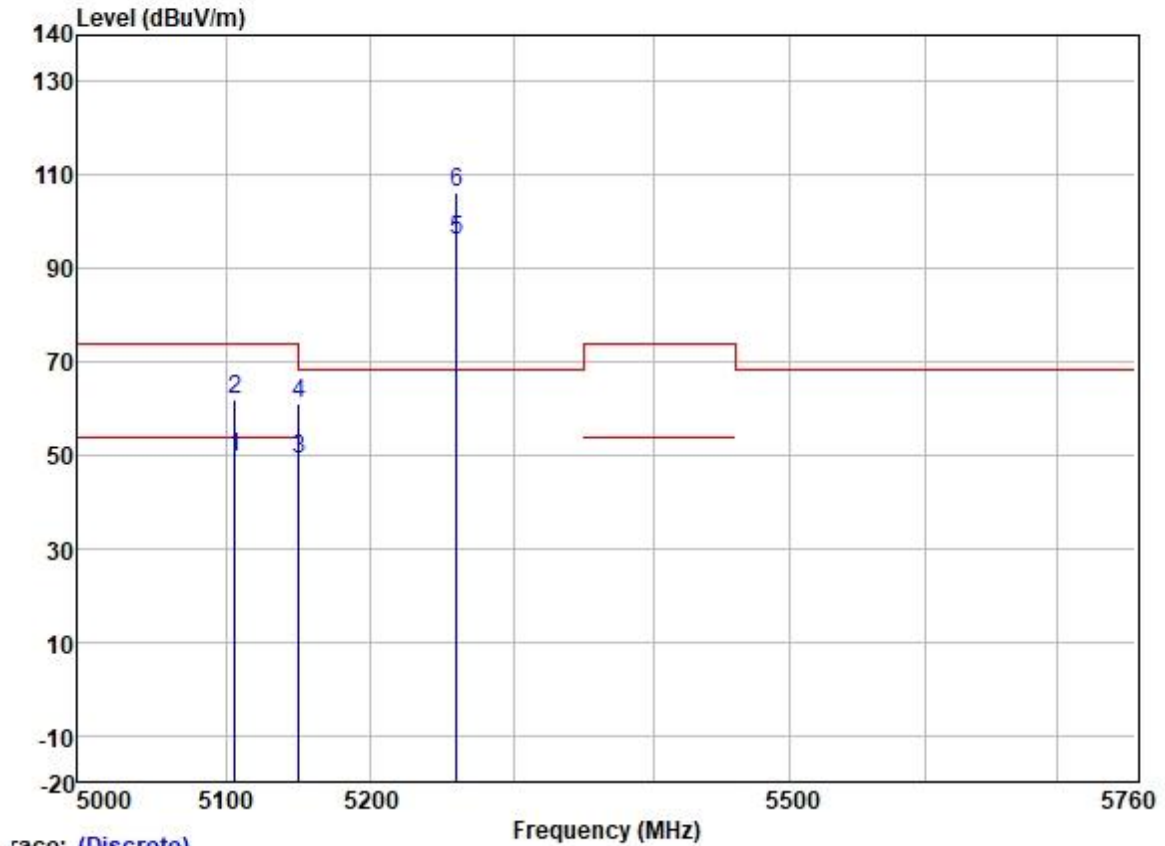
Test Mode: 20; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



race: (Discrete)

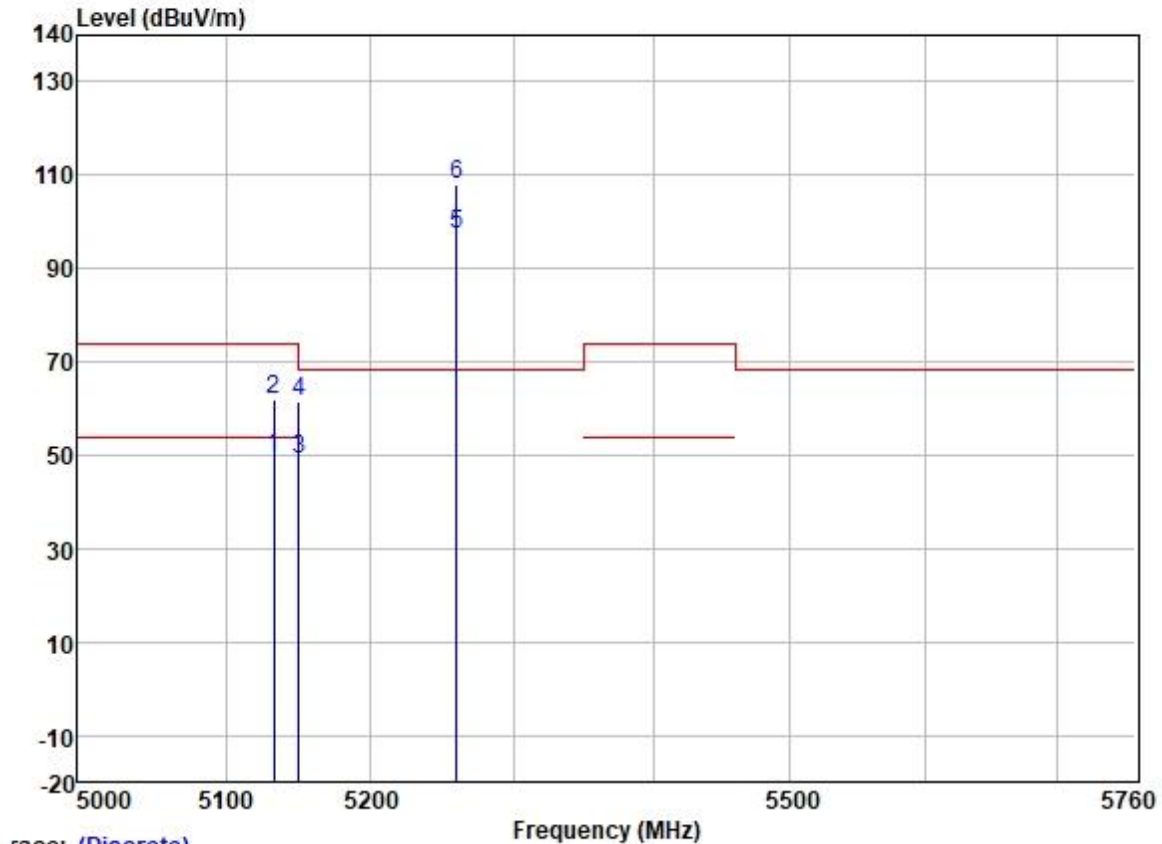
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5133.047	63.87	31.72	5.63	36.86	64.36	74.00	-9.64	VERTICAL	Peak
2	5133.634	51.98	31.72	5.63	36.86	52.47	54.00	-1.53	VERTICAL	Average
3	5250.000	90.03	31.75	5.77	36.87	90.68	-----	-----	VERTICAL	Average
4 *	5250.000	99.93	31.75	5.77	36.87	100.58	68.20	32.38	VERTICAL	Peak
5	5357.573	52.21	31.78	6.03	36.88	53.14	54.00	-0.86	VERTICAL	Average
6	5357.879	63.12	31.78	6.03	36.88	64.05	74.00	-9.95	VERTICAL	Peak

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



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.195	48.93	31.72	5.65	36.86	49.44	54.00	-4.56	HORIZONTAL Average
2	5106.195	61.58	31.72	5.65	36.86	62.09	74.00	-11.91	HORIZONTAL Peak
3	5149.980	48.55	31.72	5.62	36.86	49.03	54.00	-4.97	HORIZONTAL Average
4	5149.980	60.60	31.72	5.62	36.86	61.08	74.00	-12.92	HORIZONTAL Peak
5	5260.000	95.23	31.75	5.77	36.87	95.88	-----	-----	HORIZONTAL Average
6 *	5260.000	105.69	31.75	5.77	36.87	106.34	68.20	38.14	HORIZONTAL Peak

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



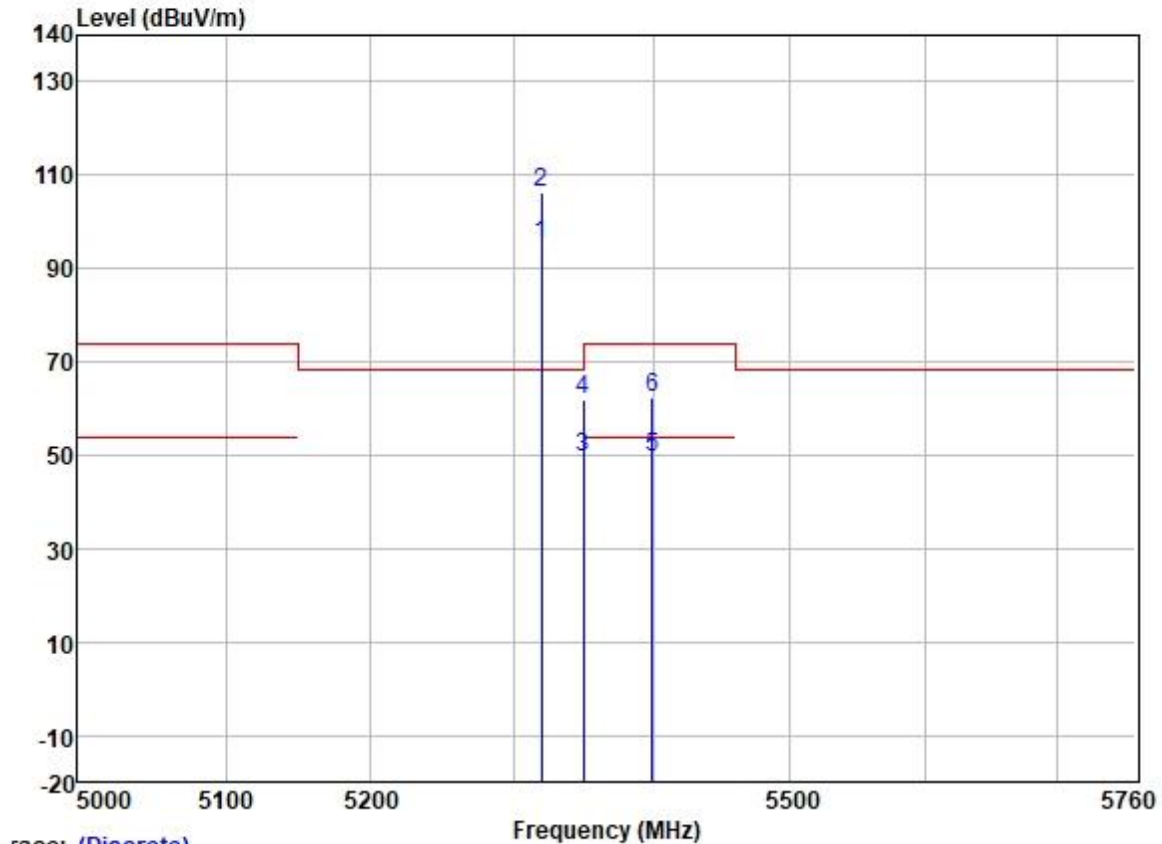
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5133.187	49.07	31.72	5.63	36.86	49.56	54.00	-4.44	VERTICAL
2	5133.187	61.52	31.72	5.63	36.86	62.01	74.00	-11.99	VERTICAL
3	5149.980	48.57	31.72	5.62	36.86	49.05	54.00	-4.95	VERTICAL
4	5149.980	60.99	31.72	5.62	36.86	61.47	74.00	-12.53	VERTICAL
5	5260.000	96.61	31.75	5.77	36.87	97.26	-----	-----	VERTICAL
6 *	5260.000	107.49	31.75	5.77	36.87	108.14	68.20	39.94	VERTICAL



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.

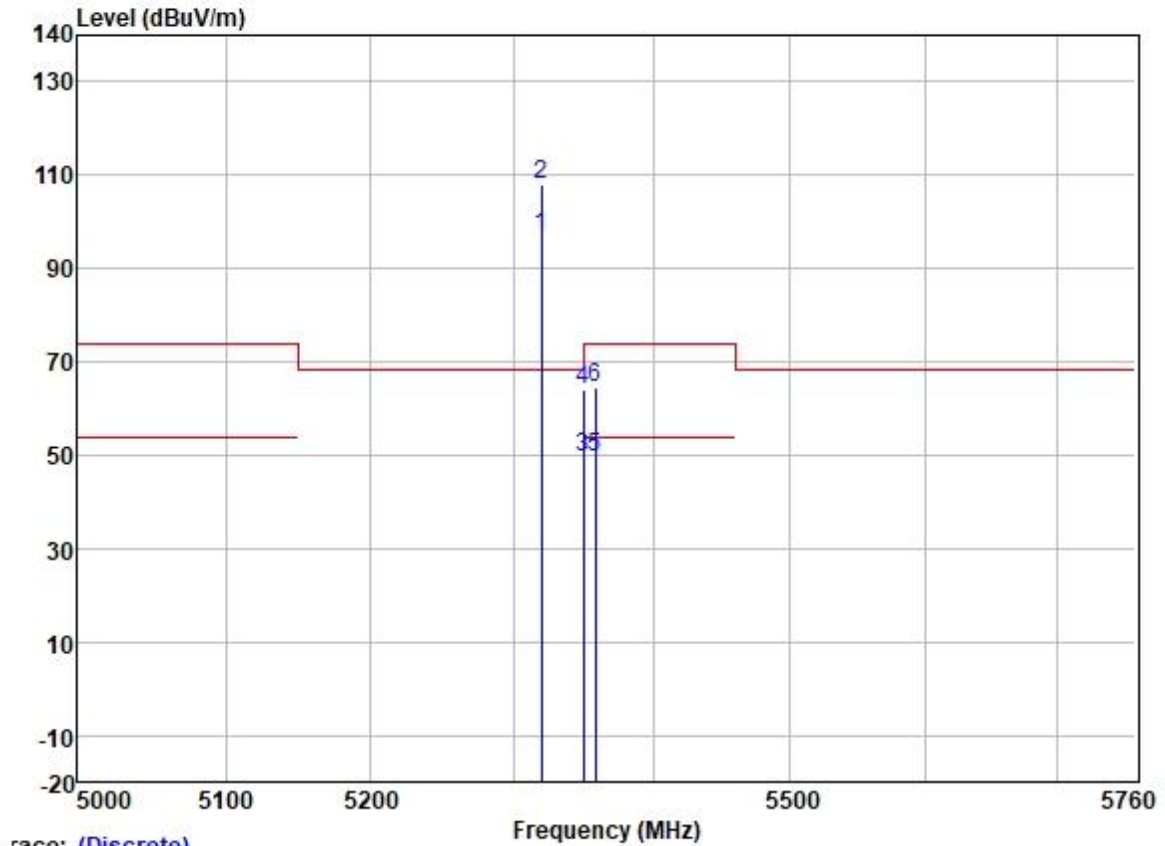
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 20; Polarity: Horizontal; Modulation: 802.11ax; 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	5320.000	94.07	31.77	6.08	36.88	95.04	-----	-----	HORIZONTAL	Average
2 *	5320.000	105.36	31.77	6.08	36.88	106.33	68.20	38.13	HORIZONTAL	Peak
3	5350.020	48.46	31.77	6.05	36.88	49.40	54.00	-4.60	HORIZONTAL	Average
4	5350.020	60.96	31.77	6.05	36.88	61.90	74.00	-12.10	HORIZONTAL	Peak
5	5399.192	48.84	31.78	6.00	36.88	49.74	54.00	-4.26	HORIZONTAL	Average
6	5399.192	61.52	31.78	6.00	36.88	62.42	74.00	-11.58	HORIZONTAL	Peak

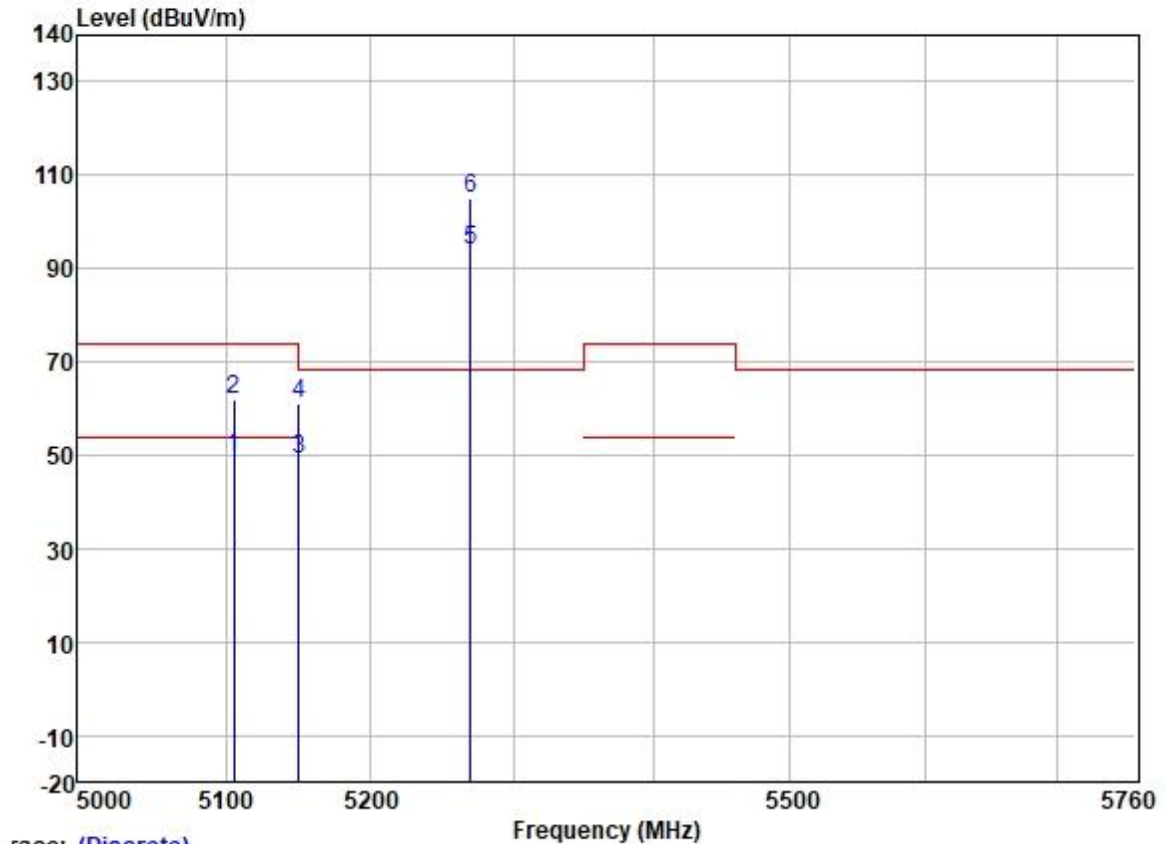
Test Mode: 20; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5320.000	95.92	31.77	6.08	36.88	96.89	-----	VERTICAL	Average
2 *	5320.000	106.94	31.77	6.08	36.88	107.91	68.20	39.71 VERTICAL	Peak
3	5350.020	48.64	31.77	6.05	36.88	49.58	54.00	-4.42 VERTICAL	Average
4	5350.020	62.91	31.77	6.05	36.88	63.85	74.00	-10.15 VERTICAL	Peak
5	5358.273	48.79	31.78	6.03	36.88	49.72	54.00	-4.28 VERTICAL	Average
6	5358.273	63.35	31.78	6.03	36.88	64.28	74.00	-9.72 VERTICAL	Peak

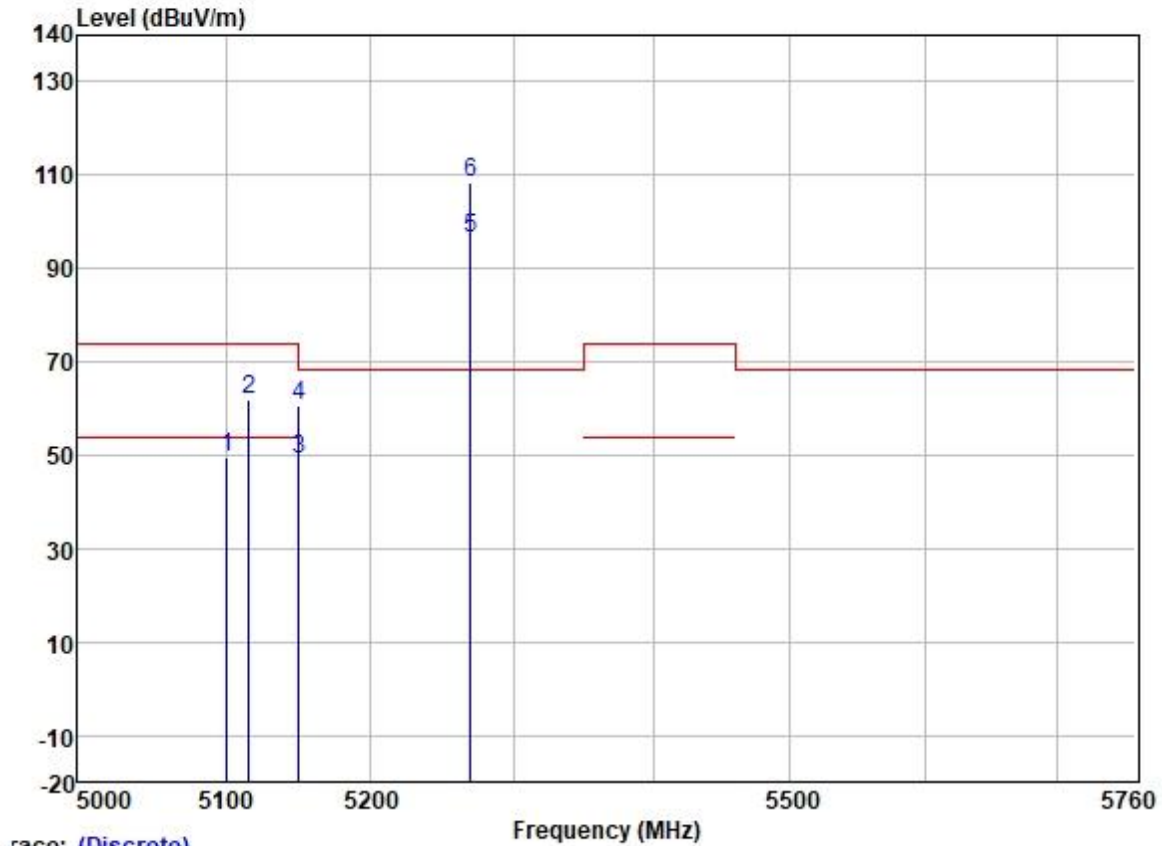
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

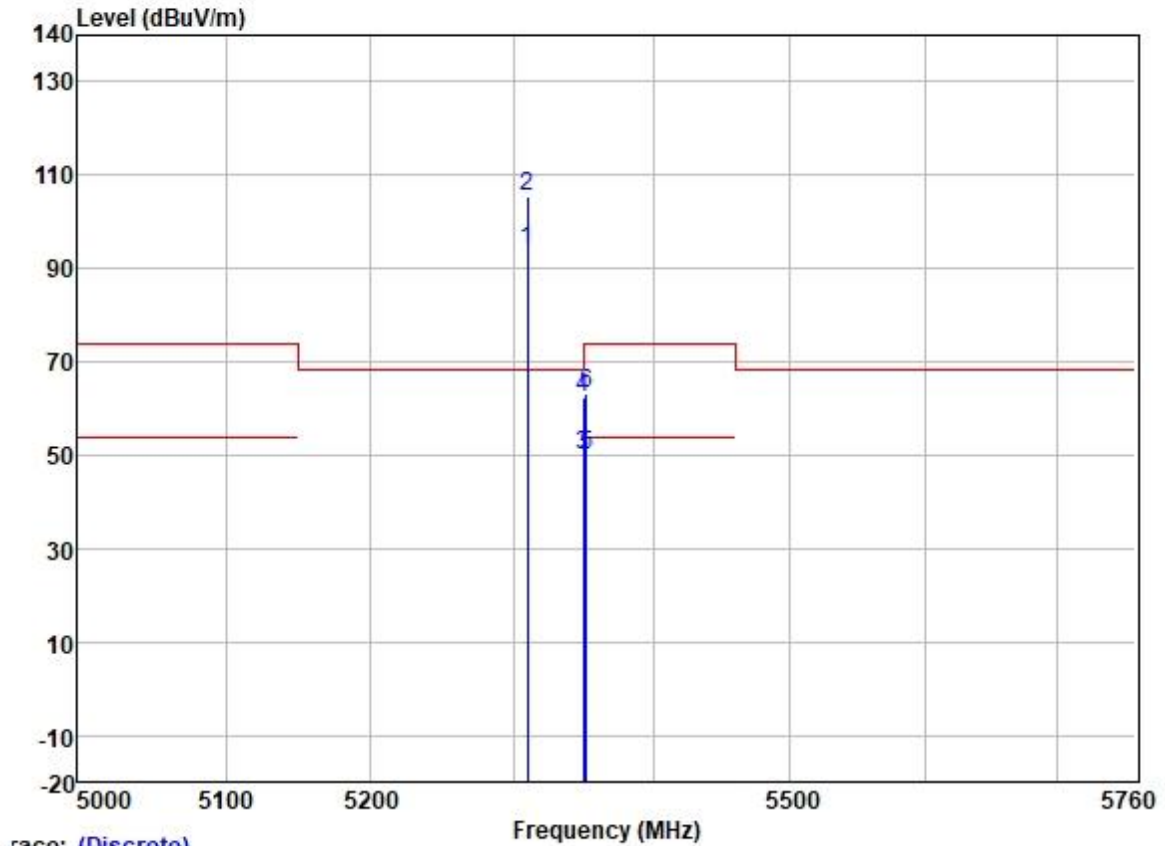
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5105.692	48.97	31.72	5.65	36.86	49.48	54.00	-4.52	HORIZONTAL	Average
2	5105.692	61.58	31.72	5.65	36.86	62.09	74.00	-11.91	HORIZONTAL	Peak
3	5149.980	48.54	31.72	5.62	36.86	49.02	54.00	-4.98	HORIZONTAL	Average
4	5149.980	60.41	31.72	5.62	36.86	60.89	74.00	-13.11	HORIZONTAL	Peak
5	5270.000	93.31	31.75	5.80	36.87	93.99	-----	-----	HORIZONTAL	Average
6 *	5270.000	104.37	31.75	5.80	36.87	105.05	68.20	36.85	HORIZONTAL	Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; 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		5100.785	48.91	31.72	5.65	36.86	49.42	54.00	-4.58	VERTICAL	Average
2		5115.718	61.31	31.72	5.64	36.86	61.81	74.00	-12.19	VERTICAL	Peak
3		5149.980	48.51	31.72	5.62	36.86	48.99	54.00	-5.01	VERTICAL	Average
4		5149.980	59.95	31.72	5.62	36.86	60.43	74.00	-13.57	VERTICAL	Peak
5		5270.000	95.85	31.75	5.80	36.87	96.53	-----	-----	VERTICAL	Average
6	*	5270.000	107.61	31.75	5.80	36.87	108.29	68.20	40.09	VERTICAL	Peak

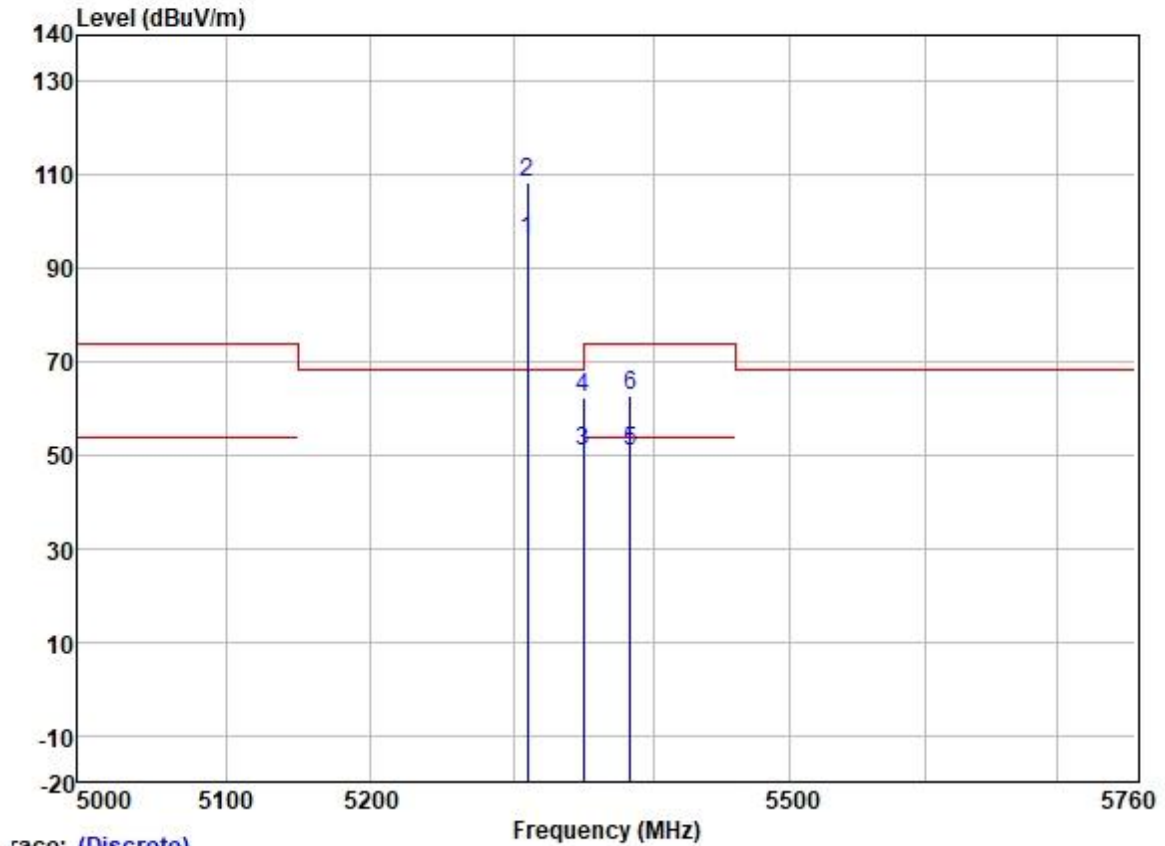
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5310.000	92.90	31.77	6.08	36.87	93.88	-----	-----	HORIZONTAL Average
2 *	5310.000	104.41	31.77	6.08	36.87	105.39	68.20	37.19	HORIZONTAL Peak
3	5350.020	49.23	31.77	6.05	36.88	50.17	54.00	-3.83	HORIZONTAL Average
4	5350.020	61.21	31.77	6.05	36.88	62.15	74.00	-11.85	HORIZONTAL Peak
5	5352.157	49.11	31.77	6.05	36.88	50.05	54.00	-3.95	HORIZONTAL Average
6	5352.157	62.30	31.77	6.05	36.88	63.24	74.00	-10.76	HORIZONTAL Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High

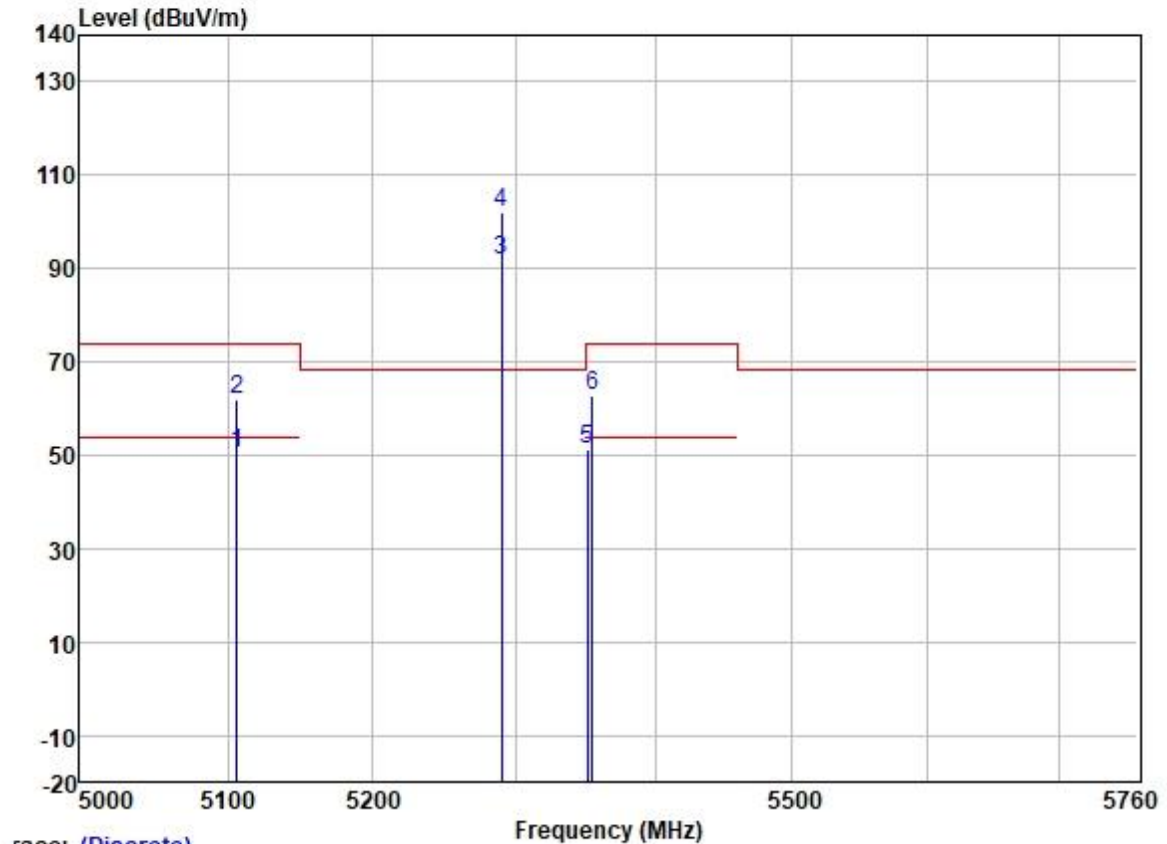


Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5310.000	95.21	31.77	6.08	36.87	96.19	-----	VERTICAL	Average
2 *	5310.000	107.31	31.77	6.08	36.87	108.29	68.20	40.09 VERTICAL	Peak
3	5350.020	49.88	31.77	6.05	36.88	50.82	54.00	-3.18 VERTICAL	Average
4	5350.020	61.33	31.77	6.05	36.88	62.27	74.00	-11.73 VERTICAL	Peak
5	5383.158	50.03	31.78	6.02	36.88	50.95	54.00	-3.05 VERTICAL	Average
6	5383.158	61.88	31.78	6.02	36.88	62.80	74.00	-11.20 VERTICAL	Peak

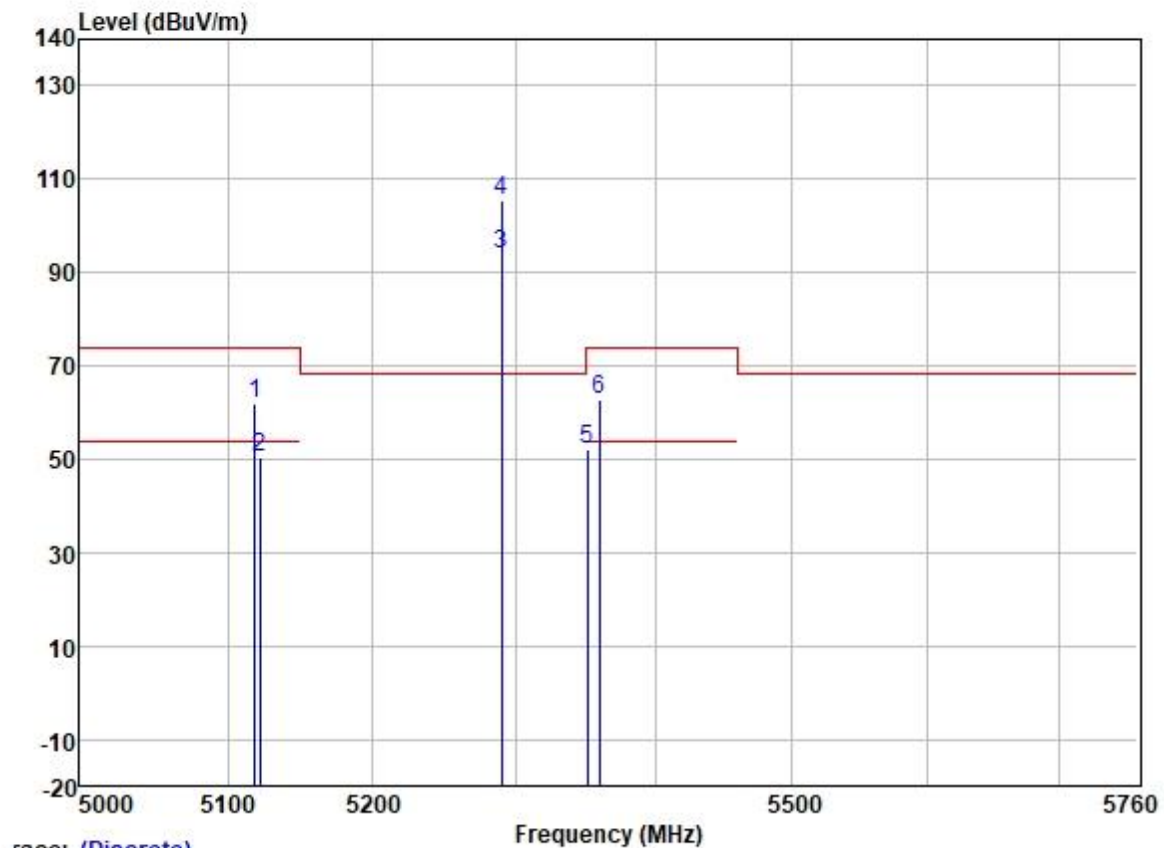


Test Mode: 20; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 80MHz; Channel: middle



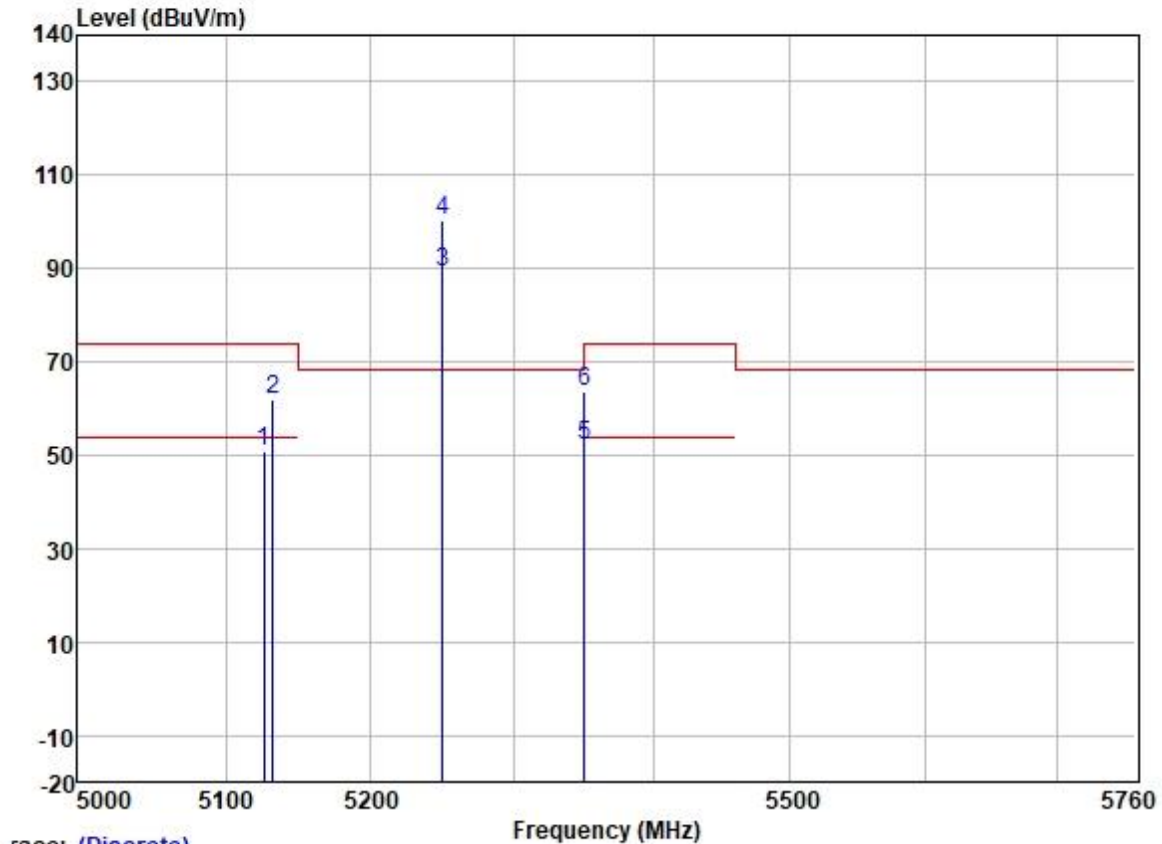
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.417	49.72	31.72	5.65	36.86	50.23	54.00	-3.77	HORIZONTAL Average
2	5106.417	61.40	31.72	5.65	36.86	61.91	74.00	-12.09	HORIZONTAL Peak
3	5290.000	90.73	31.76	6.00	36.87	91.62	-----	-----	HORIZONTAL Average
4 *	5290.000	101.31	31.76	6.00	36.87	102.20	68.20	34.00	HORIZONTAL Peak
5	5351.146	50.24	31.77	6.05	36.88	51.18	54.00	-2.82	HORIZONTAL Average
6	5354.818	61.84	31.78	6.03	36.88	62.77	74.00	-11.23	HORIZONTAL Peak

Test Mode: 20; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 80MHz; Channel: middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5118.690	61.37	31.72	5.64	36.86	61.87	74.00	-12.13	VERTICAL	Peak
2	5122.203	49.97	31.72	5.64	36.86	50.47	54.00	-3.53	VERTICAL	Average
3	5290.000	93.08	31.76	6.00	36.87	93.97	-----	-----	VERTICAL	Average
4 *	5290.000	104.45	31.76	6.00	36.87	105.34	68.20	37.14	VERTICAL	Peak
5	5351.452	50.99	31.77	6.05	36.88	51.93	54.00	-2.07	VERTICAL	Average
6	5359.717	61.71	31.78	6.03	36.88	62.64	74.00	-11.36	VERTICAL	Peak

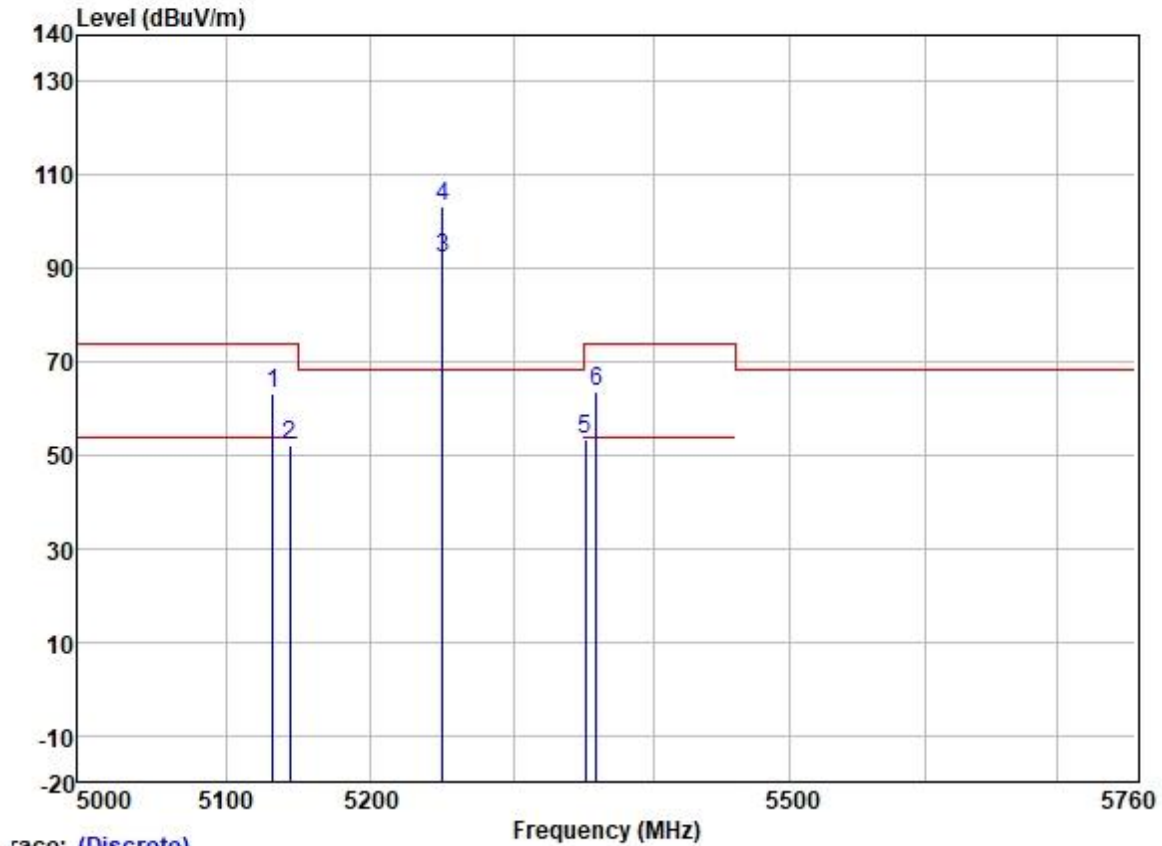
Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5125.717	50.37	31.72	5.64	36.86	50.87	54.00	-3.13	HORIZONTAL Average
2	5132.460	61.60	31.72	5.63	36.86	62.09	74.00	-11.91	HORIZONTAL Peak
3	5250.000	88.73	31.75	5.77	36.87	89.38	-----	-----	HORIZONTAL Average
4 *	5250.000	99.82	31.75	5.77	36.87	100.47	68.20	32.27	HORIZONTAL Peak
5	5350.535	51.25	31.77	6.05	36.88	52.19	54.00	-1.81	HORIZONTAL Average
6	5350.580	62.73	31.77	6.05	36.88	63.67	74.00	-10.33	HORIZONTAL Peak

Test Mode: 20; Polarity: Vertical; Modulation:802.11ax; Bandwidth:160MHz; Channel:middle



Trace: (Discrete)

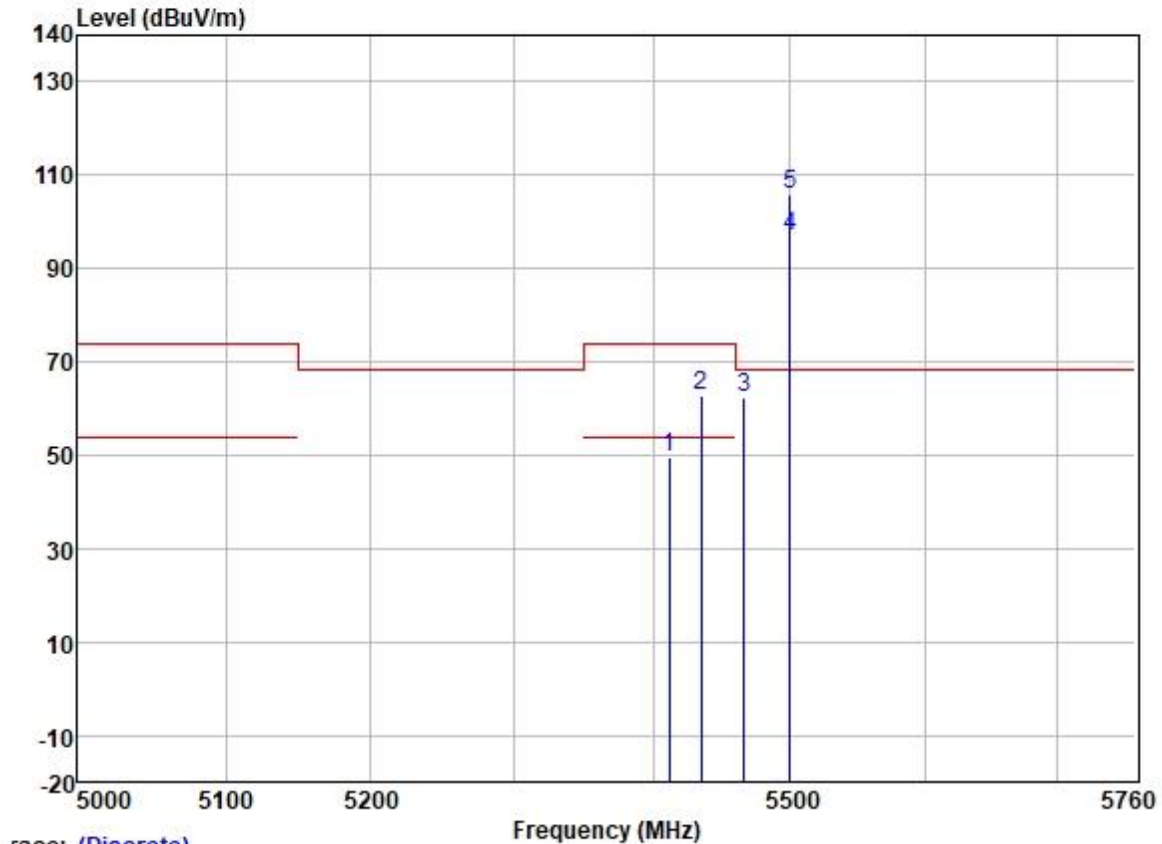
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5132.167	62.68	31.72	5.63	36.86	63.17	74.00	-10.83	VERTICAL	Peak
2	5143.914	51.71	31.72	5.62	36.86	52.19	54.00	-1.81	VERTICAL	Average
3	5250.000	91.55	31.75	5.77	36.87	92.20	-----	-----	VERTICAL	Average
4 *	5250.000	102.85	31.75	5.77	36.87	103.50	68.20	35.30	VERTICAL	Peak
5	5351.452	52.60	31.77	6.05	36.88	53.54	54.00	-0.46	VERTICAL	Average
6	5359.104	62.86	31.78	6.03	36.88	63.79	74.00	-10.21	VERTICAL	Peak



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.

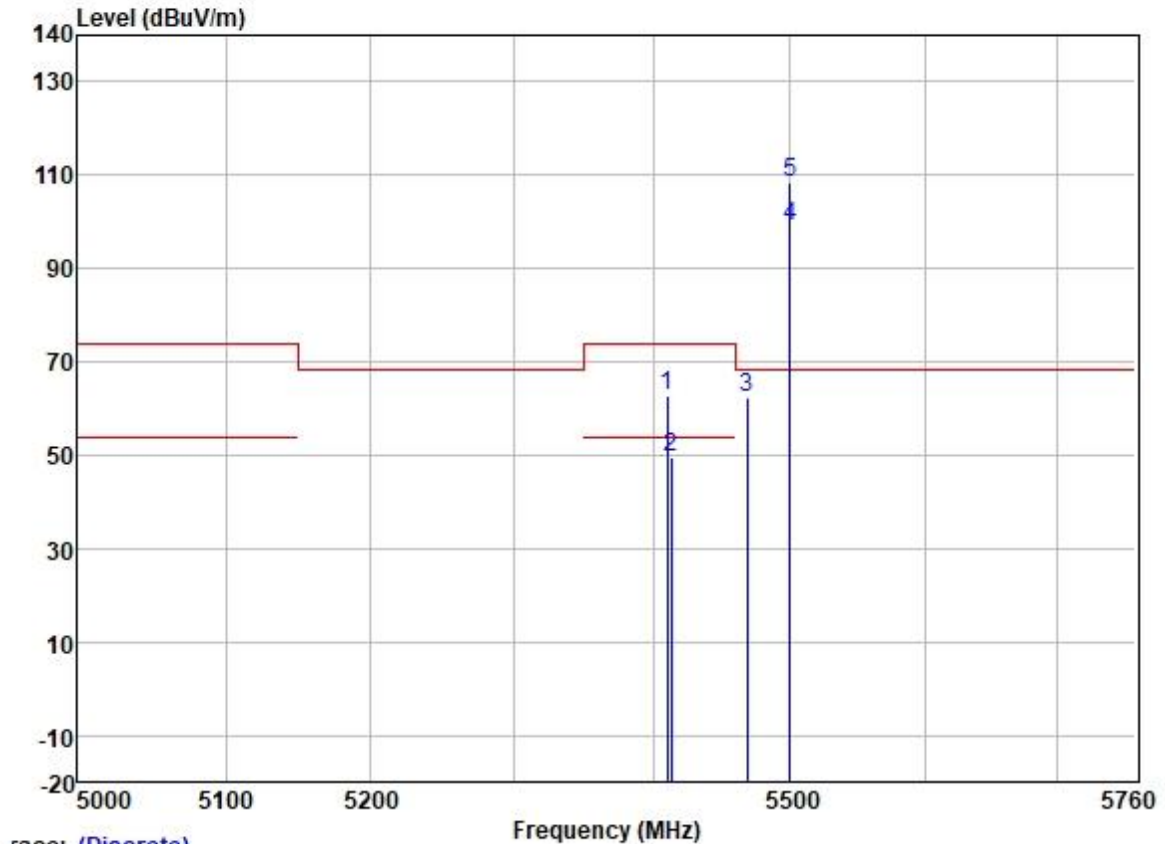
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 22; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



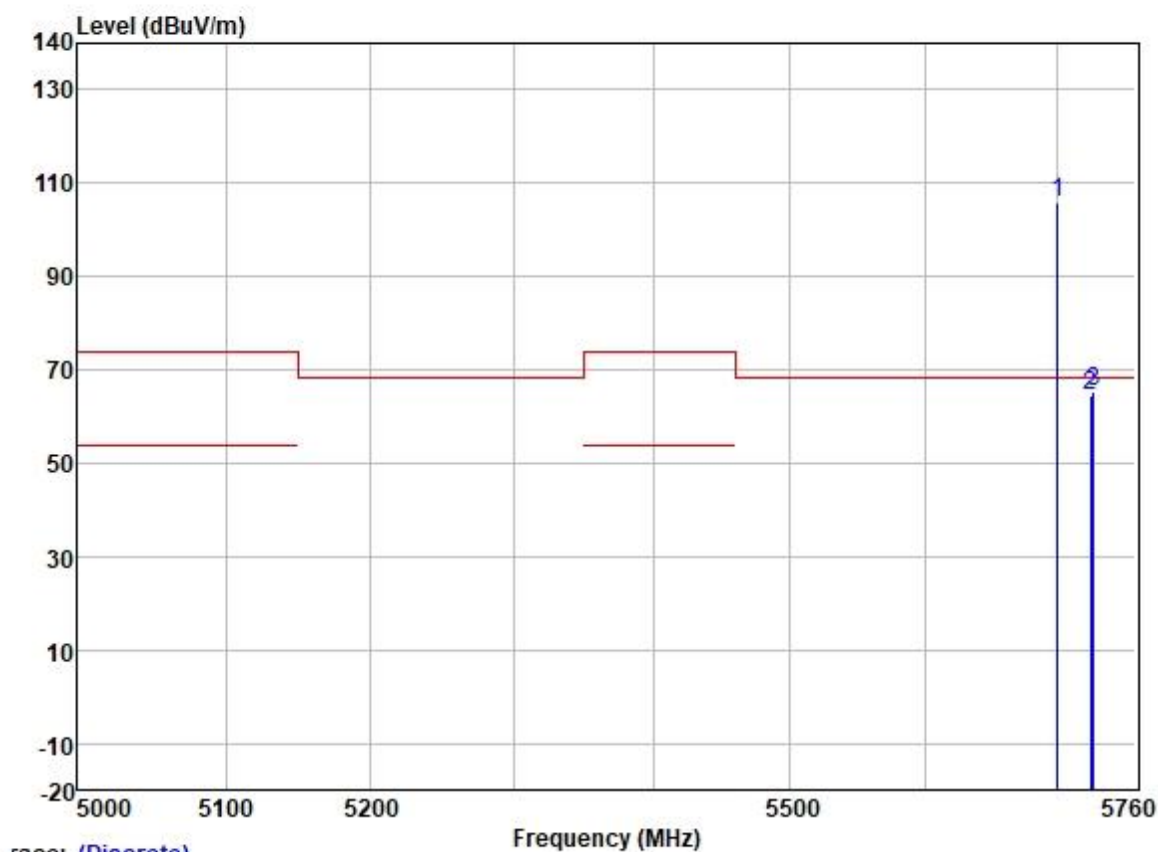
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5411.525	48.78	31.79	6.06	36.88	49.75	54.00	-4.25	HORIZONTAL	Average
2	5434.648	61.60	31.79	6.20	36.88	62.71	74.00	-11.29	HORIZONTAL	Peak
3	5466.274	61.24	31.80	6.31	36.88	62.47	68.20	-5.73	HORIZONTAL	Peak
4	5500.000	95.45	31.80	6.40	36.88	96.77	-----	-----	HORIZONTAL	Average
5 *	5500.000	104.42	31.80	6.40	36.88	105.74	68.20	37.54	HORIZONTAL	Peak

Test Mode: 22; Polarity: Vertical; Modulation:802.11a; 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	5410.098	61.90	31.79	6.06	36.88	62.87	74.00	-11.13	VERTICAL	Peak
2	5413.190	48.78	31.79	6.06	36.88	49.75	54.00	-4.25	VERTICAL	Average
3	5467.957	61.02	31.80	6.31	36.88	62.25	68.20	-5.95	VERTICAL	Peak
4	5500.000	97.72	31.80	6.40	36.88	99.04	-----	-----	VERTICAL	Average
5 *	5500.000	106.93	31.80	6.40	36.88	108.25	68.20	40.05	VERTICAL	Peak

Test Mode: 22; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:140



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5700.000	104.41	32.01	6.40	36.89	105.93	68.20	37.73	HORIZONTAL	Peak
2	5725.000	62.88	32.07	6.25	36.89	64.31	68.20	-3.89	HORIZONTAL	Peak
3	5727.282	63.88	32.07	6.25	36.89	65.31	68.20	-2.89	HORIZONTAL	Peak



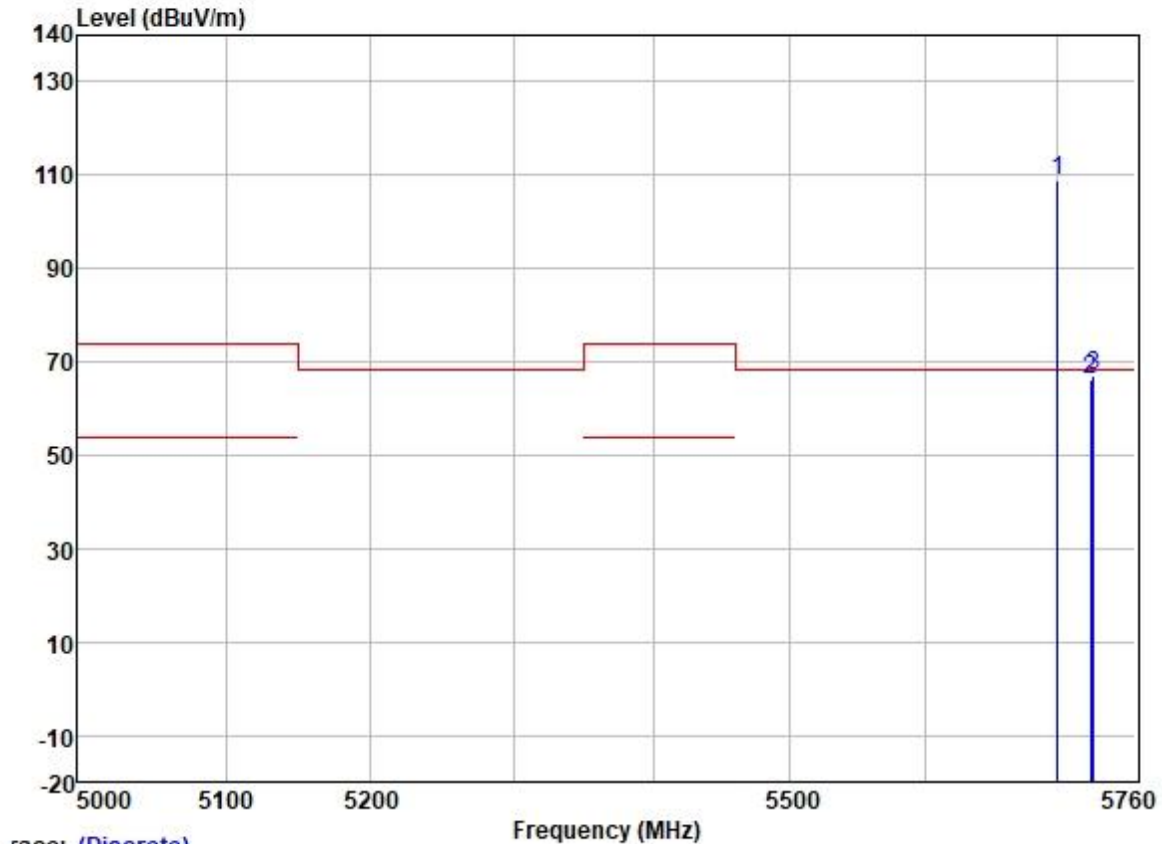
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 or copied in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the Company. Any use 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.

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198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com
 No.198 Kezhu Road, SciencePark, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn

Test Mode: 22; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:140



Trace: (Discrete)

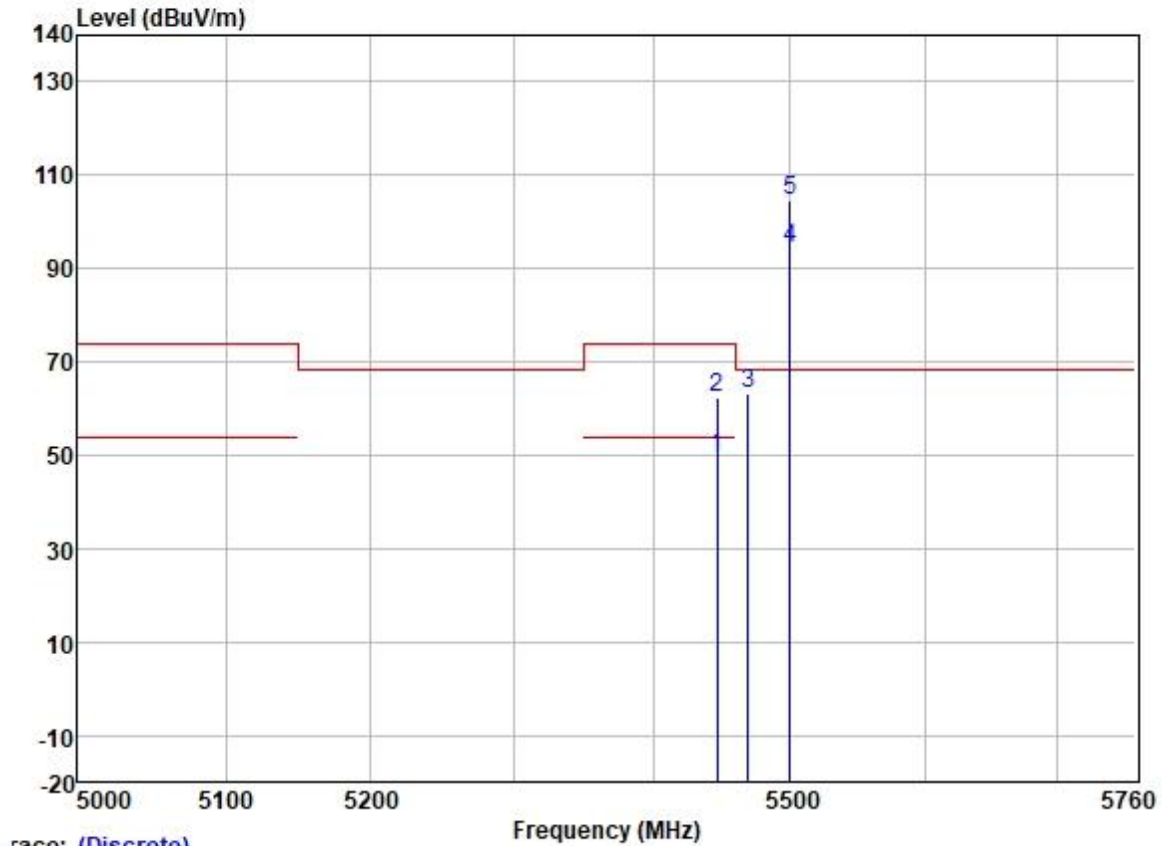
	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	5700.000	107.51	32.01	6.40	36.89	109.03	68.20	40.83	VERTICAL Peak
2	5725.000	64.67	32.07	6.25	36.89	66.10	68.20	-2.10	VERTICAL Peak
3	5727.282	65.48	32.07	6.25	36.89	66.91	68.20	-1.29	VERTICAL Peak



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-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.

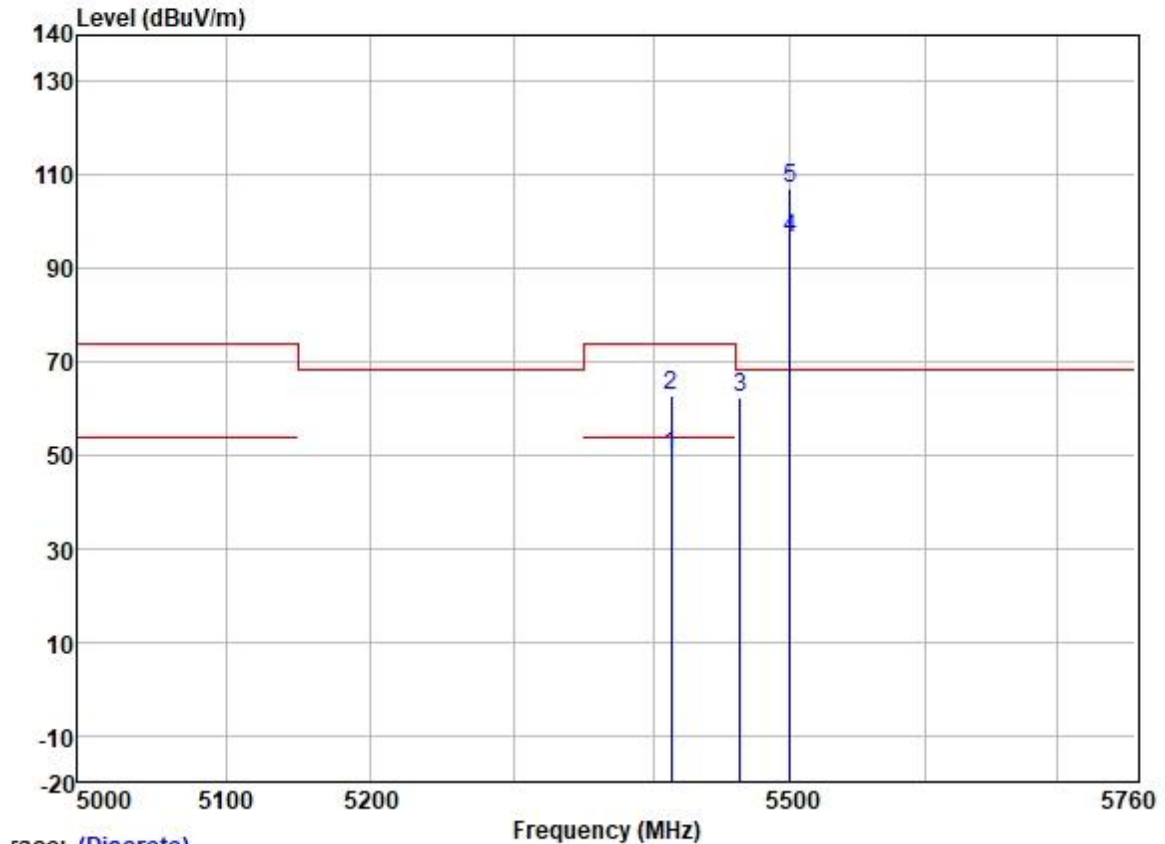
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 22; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



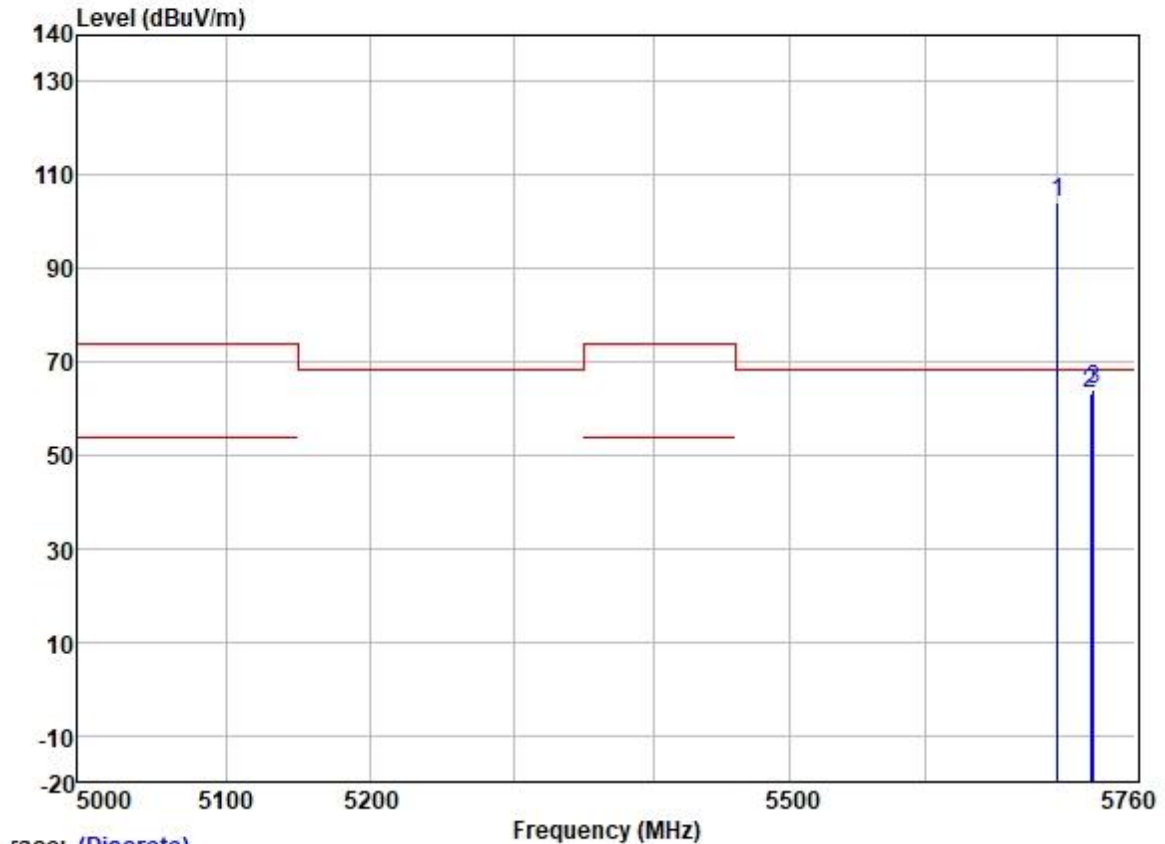
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5446.486	48.61	31.79	6.20	36.88	49.72	54.00	-4.28	HORIZONTAL	Average
2	5446.486	61.41	31.79	6.20	36.88	62.52	74.00	-11.48	HORIZONTAL	Peak
3	5468.918	62.02	31.80	6.31	36.88	63.25	68.20	-4.95	HORIZONTAL	Peak
4	5500.000	93.07	31.80	6.40	36.88	94.39	-----	-----	HORIZONTAL	Average
5 *	5500.000	103.18	31.80	6.40	36.88	104.50	68.20	36.30	HORIZONTAL	Peak

Test Mode: 22; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5413.190	48.81	31.79	6.06	36.88	49.78	54.00	-4.22	VERTICAL	Average
2	5413.190	61.72	31.79	6.06	36.88	62.69	74.00	-11.31	VERTICAL	Peak
3	5463.031	61.13	31.79	6.26	36.88	62.30	68.20	-5.90	VERTICAL	Peak
4	5500.000	95.18	31.80	6.40	36.88	96.50	-----	-----	VERTICAL	Average
5 *	5500.000	105.66	31.80	6.40	36.88	106.98	68.20	38.78	VERTICAL	Peak

Test Mode: 22; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:140



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	5700.000	102.76	32.01	6.40	36.89	104.28	68.20	36.08 HORIZONTAL Peak
2	5725.000	61.59	32.07	6.25	36.89	63.02	68.20	-5.18 HORIZONTAL Peak
3	5727.482	62.71	32.07	6.25	36.89	64.14	68.20	-4.06 HORIZONTAL Peak