

# TEST REPORT

**Application No.:** SZCR2307002446HS

**Applicant:** Shenzhen Hua Xin Information Technology Co.,Ltd.

**Address of Applicant:** B101-B801, building 4,No.7 Industrial Area,Heshuikou Community, Matian Street,Guangming District, Shenzhen,China

**Manufacturer:** Shenzhen Hua Xin Information Technology Co.,Ltd.

**Address of Manufacturer:** B101-B801, building 4,No.7 Industrial Area,Heshuikou Community, Matian Street,Guangming District, Shenzhen,China

**Equipment Under Test (EUT):**

**EUT Name:** Robotic vacuum cleaner

**Model No.:** X2000, X2000-1, X2000-2, X2000-3, X2000S, X2000S-1, X2000S-2, X2000PRO, X2000PRO-1, X2000PRO-2, G20, R20 ♣

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

**FCC ID:** 2AMYQ-2023X2000

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

**Date of Receipt:** 2023-07-30

**Date of Test:** 2023-09-24 to 2023-10-12

**Date of Issue:** 2023-10-24

**Test Result:**

**Pass\***

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

*Keny Xu*

Keny Xu  
EMC Laboratory Manager



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

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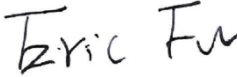
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-10-24		Original

Authorized for issue by:				
				
		Winkey Wang/Project Engineer		
				
		Eric Fu/Reviewer		



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## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note: the 2.4G BT&WIFI Module: AW-NM372SM has been tested and certified before it is applied in the EUT, only changed the ANT, since only the test items above were test. For 2.4G BT&WIFI Module FCC ID: 2AMYQ-2023X2000

### Declaration of EUT Family Grouping:

Model No.: X2000, X2000-1, X2000-2, X2000-3, X2000S, X2000S-1, X2000S-2, X2000PRO, X2000PRO-1, X2000PRO-2, G20, R20

Only the model X2000 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., color and appearance.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input 19Vdc, 1A, Li-ion battery inside:14.4Vdc, 5200mAh, Rated power:60W
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-2.40dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 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
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06



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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

## General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

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, 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.40dBi

Antenna location: Refer to internal photos



## 7 Radio Spectrum Matter Test Results

### 7.1 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 51.4 % RH

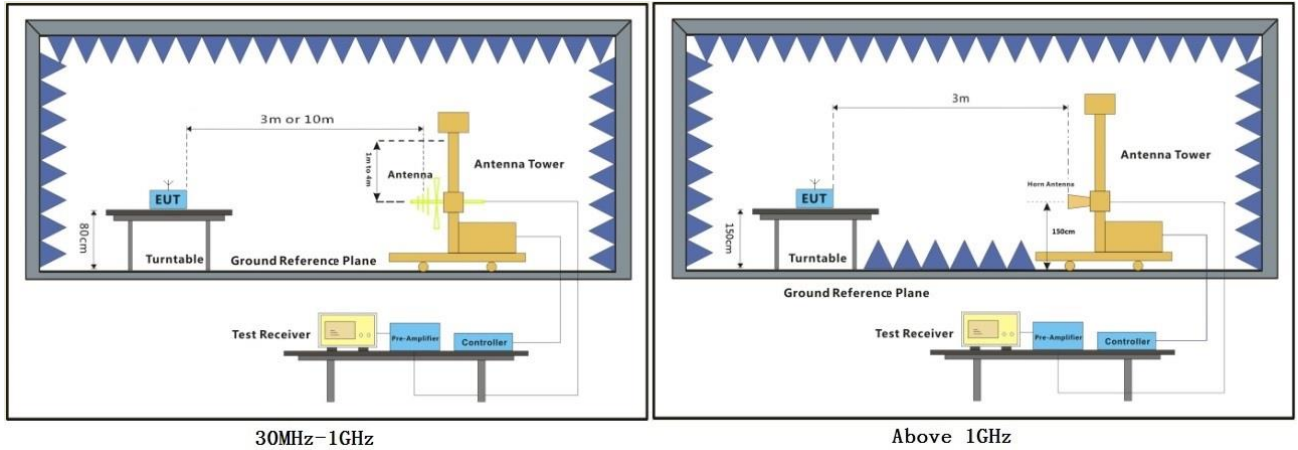
Atmospheric Pressure: 1005 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.(AW-NM372SM)



### 7.1.3 Test Setup Diagram



## 7.1.4 Measurement Procedure and Data

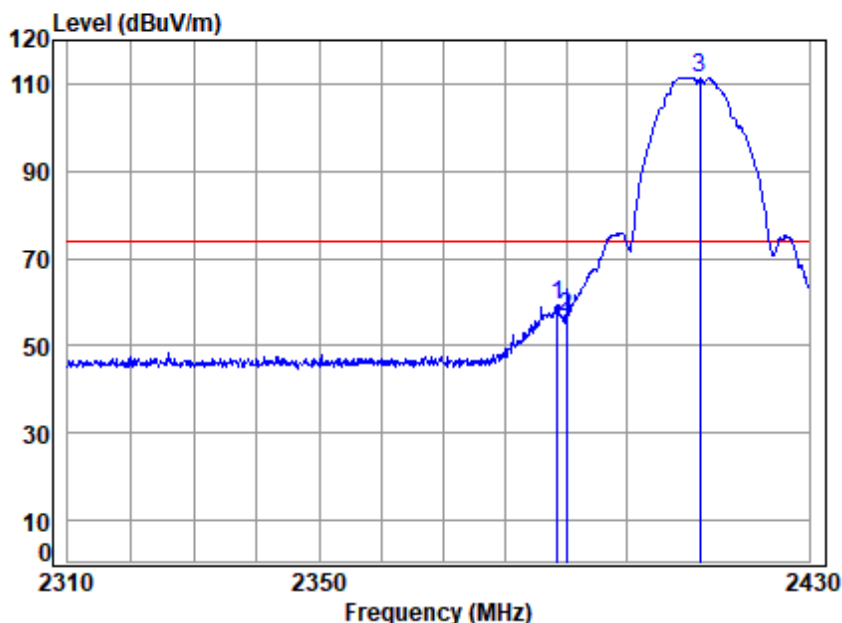
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5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

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

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



Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

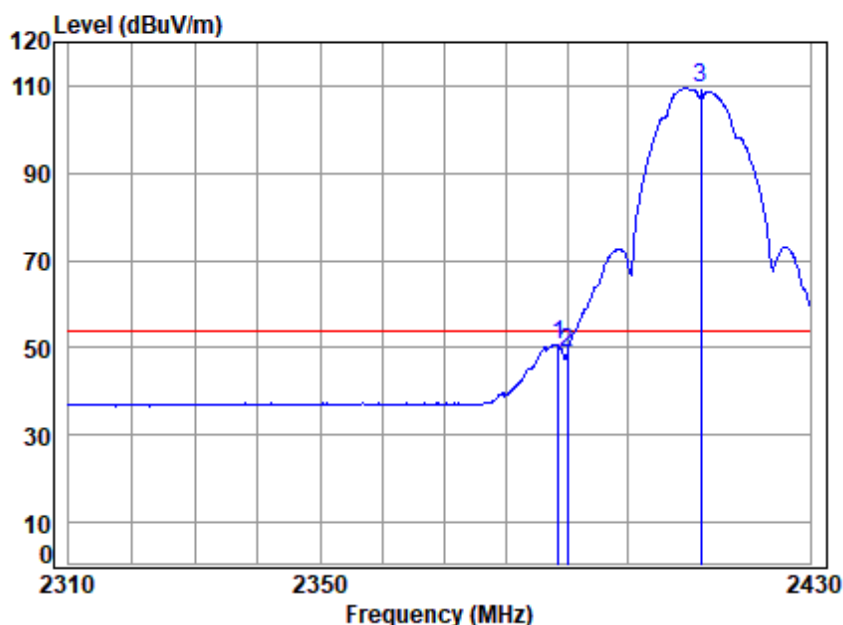


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.64	5.07	29.10	37.44	62.54	59.27	74.00	-14.73 peak
2	2390.00	5.08	29.10	37.44	59.79	56.53	74.00	-17.47 peak
3	2412.00	5.10	29.05	37.38	114.74	111.51	74.00	37.51 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

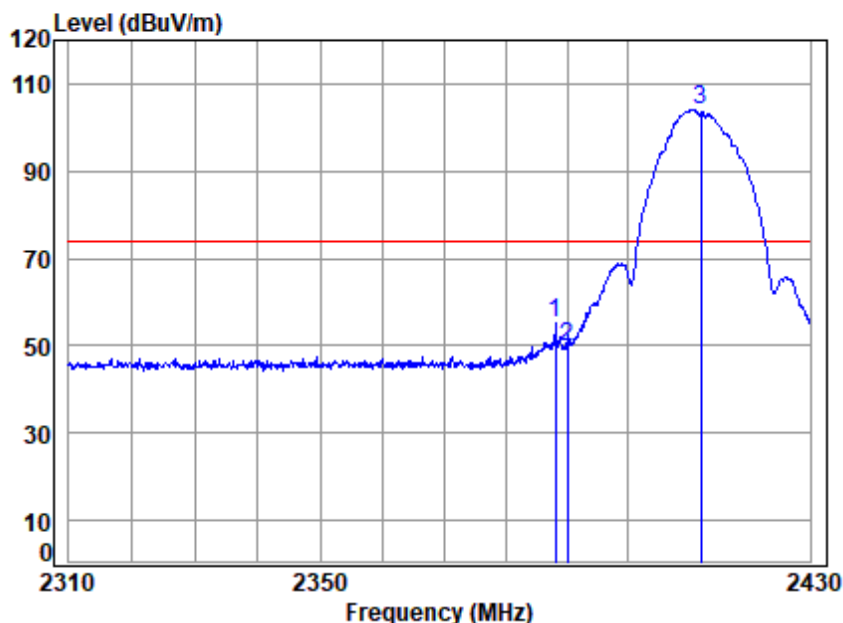


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.52	5.07	29.10	37.44	54.00	50.73	54.00	-3.27 Average
2	2390.00	5.08	29.10	37.44	51.98	48.72	54.00	-5.28 Average
3	2412.00	5.10	29.05	37.38	112.63	109.40	54.00	55.40 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

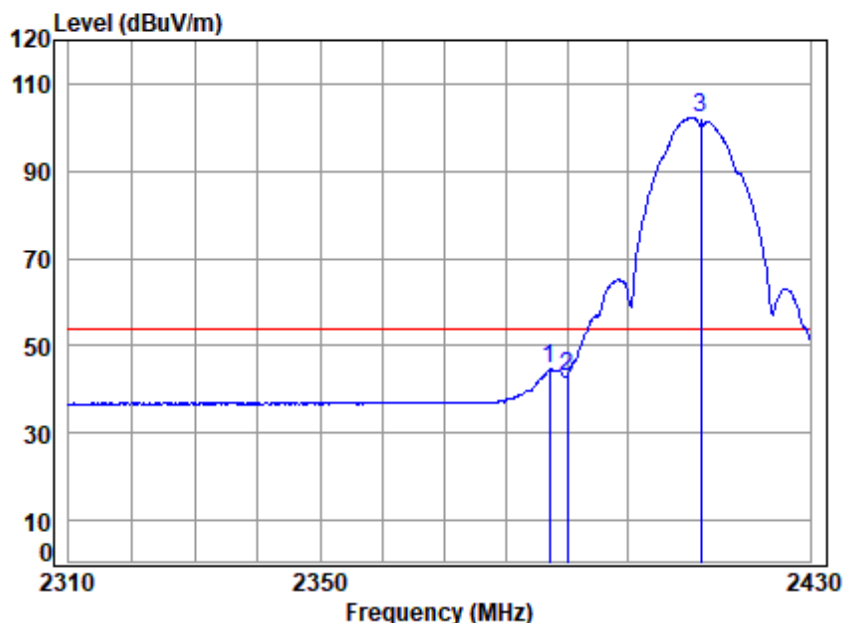


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.03	5.07	29.10	37.44	58.46	55.19	74.00	-18.81 Peak
2	2390.00	5.08	29.10	37.44	53.13	49.87	74.00	-24.13 Peak
3	2412.00	5.10	29.05	37.38	107.25	104.02	74.00	30.02 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

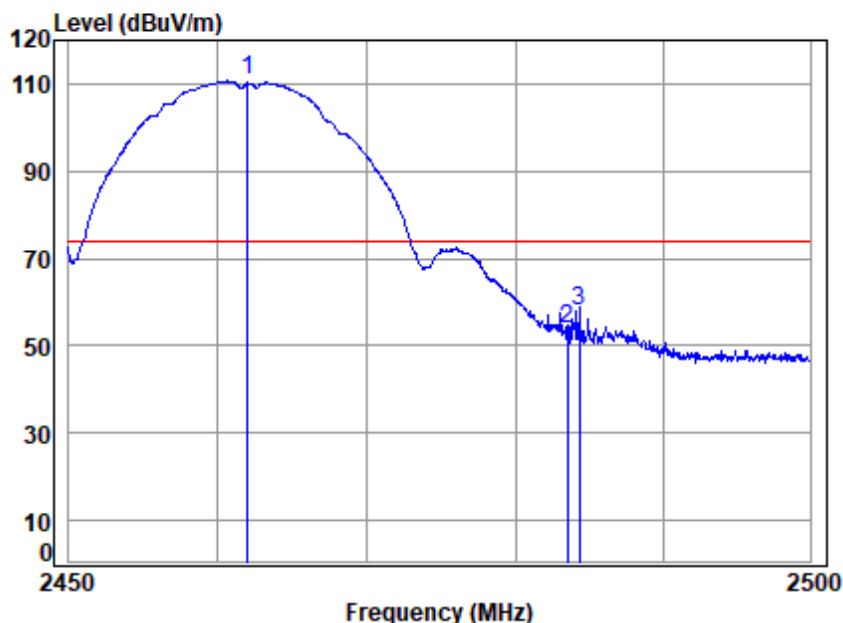


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.19	5.07	29.10	37.44	47.90	44.63	54.00	-9.37 Average
2	2390.00	5.08	29.10	37.44	46.35	43.09	54.00	-10.91 Average
3	2412.00	5.10	29.05	37.38	105.40	102.17	54.00	48.17 Average



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High

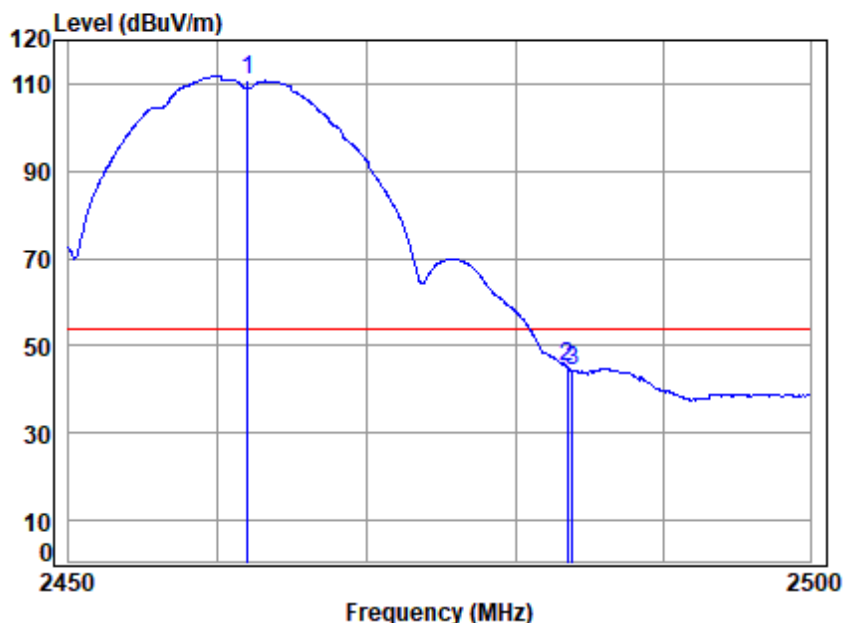


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	113.91	110.68	74.00	36.68 peak
2	2483.50	5.16	28.90	37.22	56.90	53.74	74.00	-20.26 peak
3	2484.34	5.16	28.90	37.21	61.16	58.01	74.00	-15.99 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

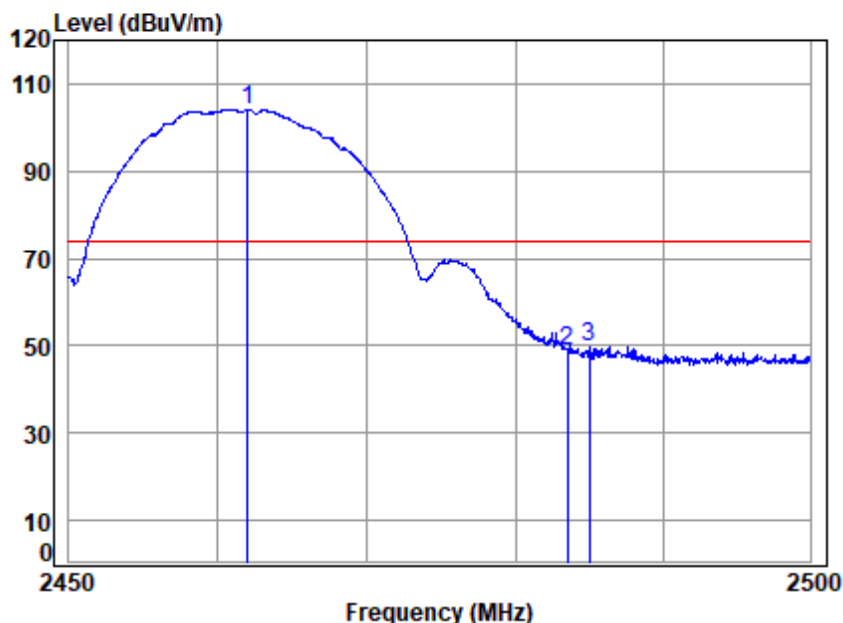


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	114.26	111.03	54.00	57.03 Average
2	2483.50	5.16	28.90	37.22	48.29	45.13	54.00	-8.87 Average
3	2483.89	5.16	28.90	37.22	47.47	44.31	54.00	-9.69 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

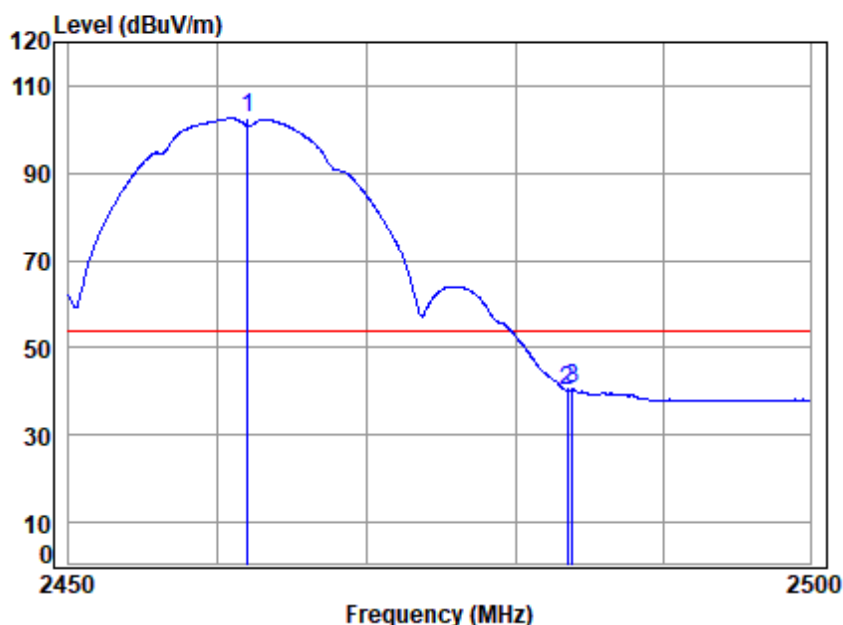


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	107.46	104.23	74.00	30.23 Peak
2	2483.50	5.16	28.90	37.22	51.83	48.67	74.00	-25.33 Peak
3	2484.99	5.16	28.90	37.21	53.08	49.93	74.00	-24.07 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

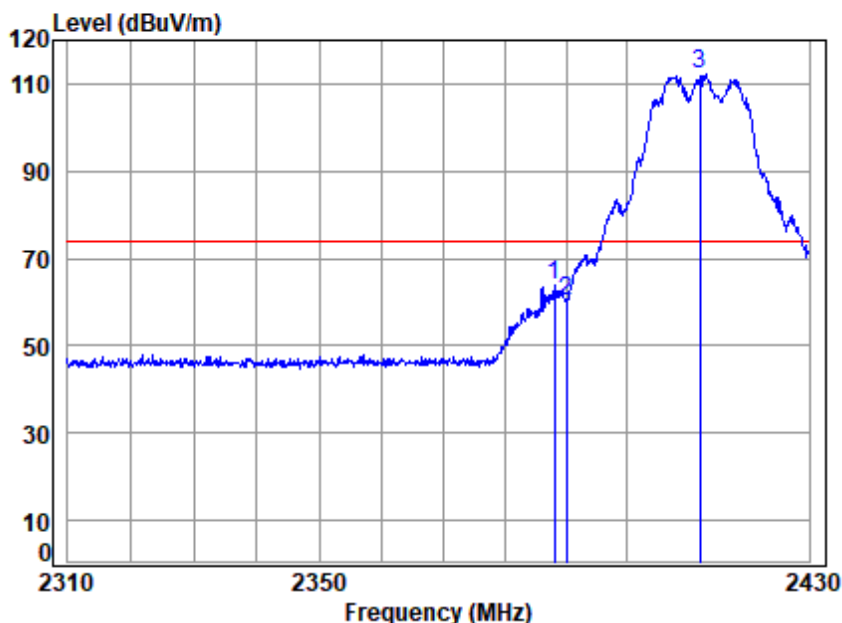


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	105.75	102.52	54.00	48.52 Average
2	2483.50	5.16	28.90	37.22	43.50	40.34	54.00	-13.66 Average
3	2483.89	5.16	28.90	37.22	43.58	40.42	54.00	-13.58 Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

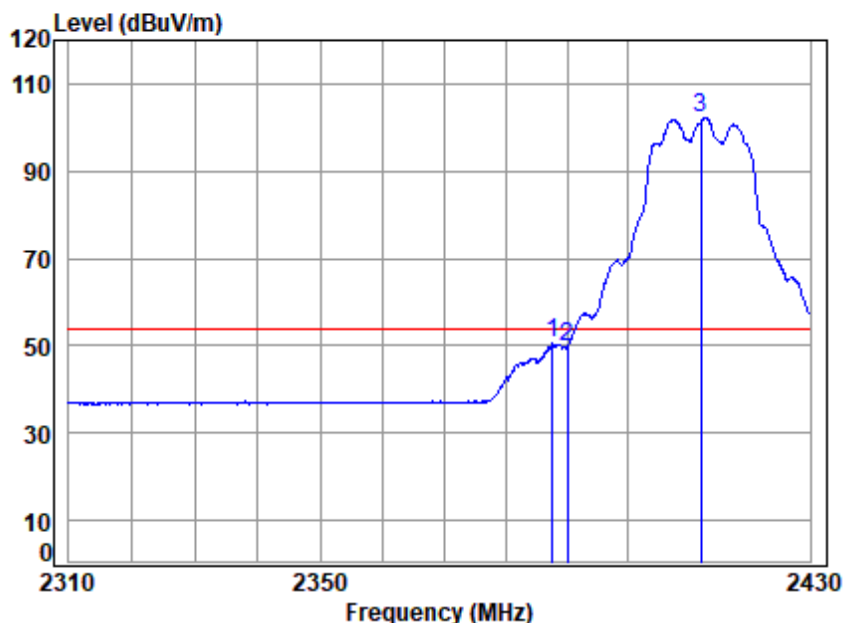


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.03	5.07	29.10	37.44	67.31	64.04	74.00	-9.96 peak
2	2390.00	5.08	29.10	37.44	63.46	60.20	74.00	-13.80 peak
3	2412.00	5.10	29.05	37.38	115.36	112.13	74.00	38.13 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

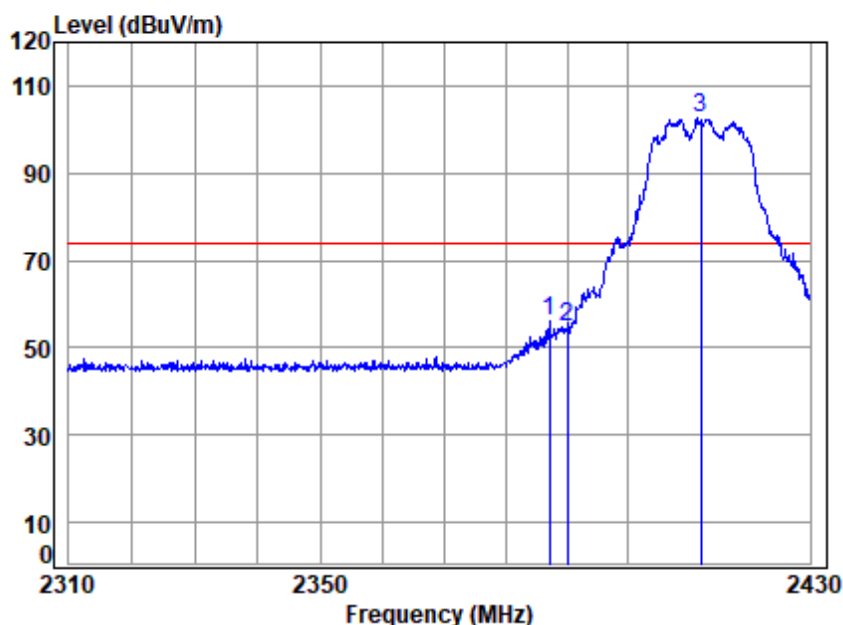


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.67	5.07	29.10	37.44	53.77	50.50	54.00	-3.50 Average
2	2390.00	5.08	29.10	37.44	52.89	49.63	54.00	-4.37 Average
3	2412.00	5.10	29.05	37.38	105.46	102.23	54.00	48.23 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

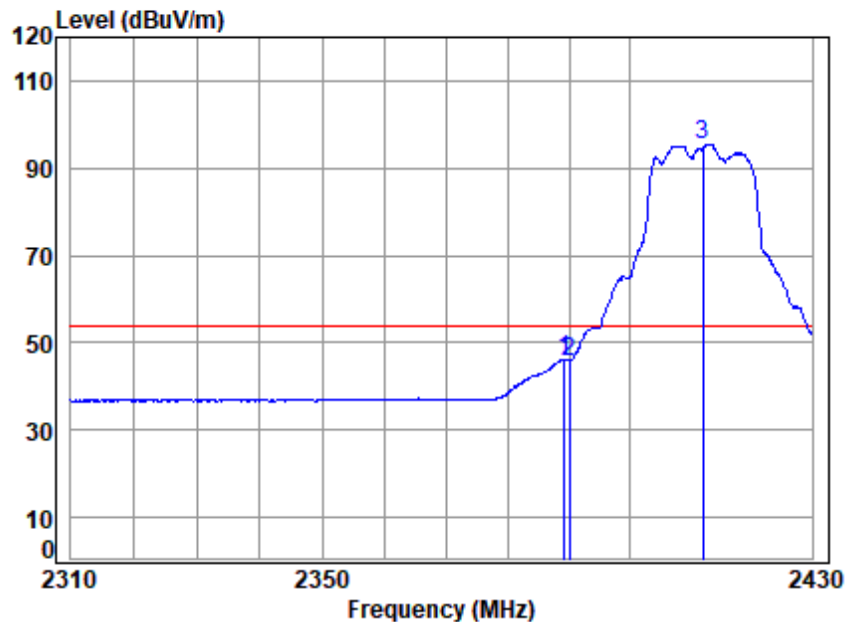


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.07	5.07	29.10	37.44	59.32	56.05	74.00	-17.95 Peak
2	2390.00	5.08	29.10	37.44	57.94	54.68	74.00	-19.32 Peak
3	2412.00	5.10	29.05	37.38	105.75	102.52	74.00	28.52 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

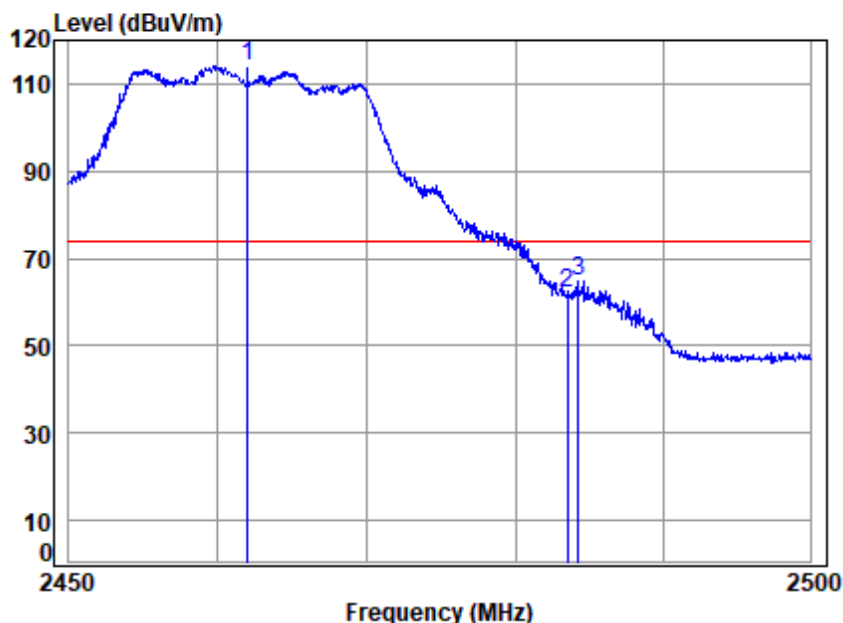


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.24	5.07	29.10	37.44	49.50	46.23	54.00	-7.77 Average
2	2390.00	5.08	29.10	37.44	49.09	45.83	54.00	-8.17 Average
3	2412.00	5.10	29.05	37.38	98.70	95.47	54.00	41.47 Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

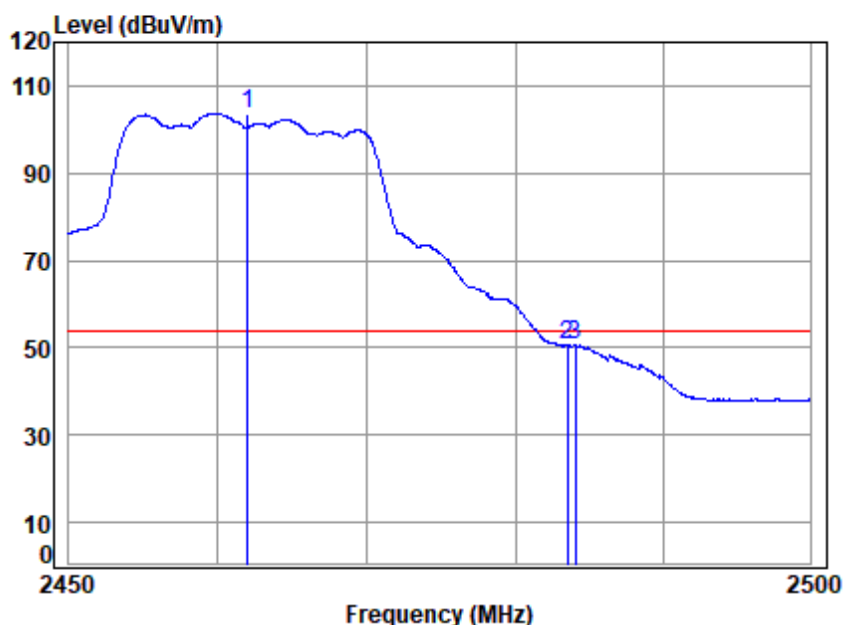


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	117.30	114.07	74.00	40.07 peak
2	2483.50	5.16	28.90	37.22	65.10	61.94	74.00	-12.06 peak
3	2484.24	5.16	28.90	37.21	68.03	64.88	74.00	-9.12 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

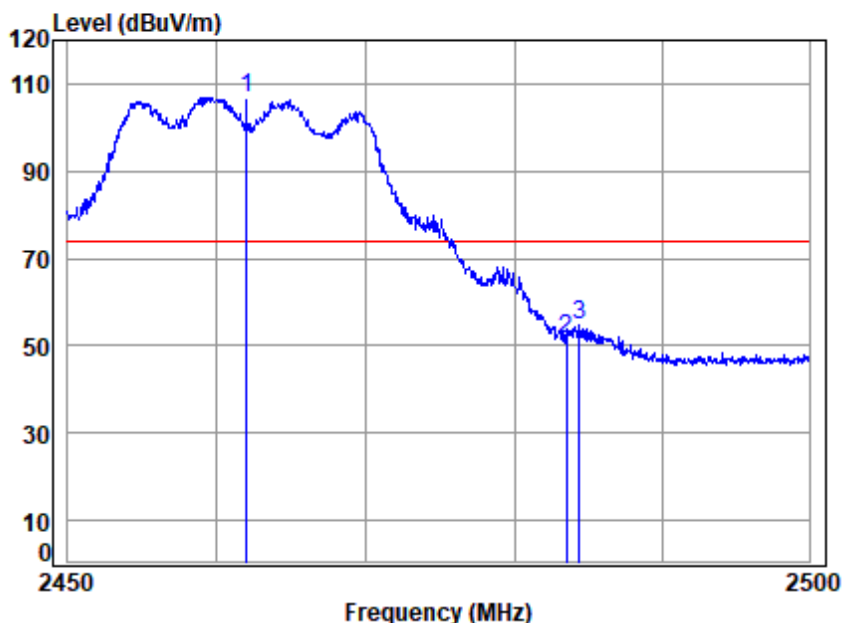


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	106.99	103.76	54.00	49.76 Average
2	2483.50	5.16	28.90	37.22	53.85	50.69	54.00	-3.31 Average
3	2484.09	5.16	28.90	37.22	53.74	50.58	54.00	-3.42 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

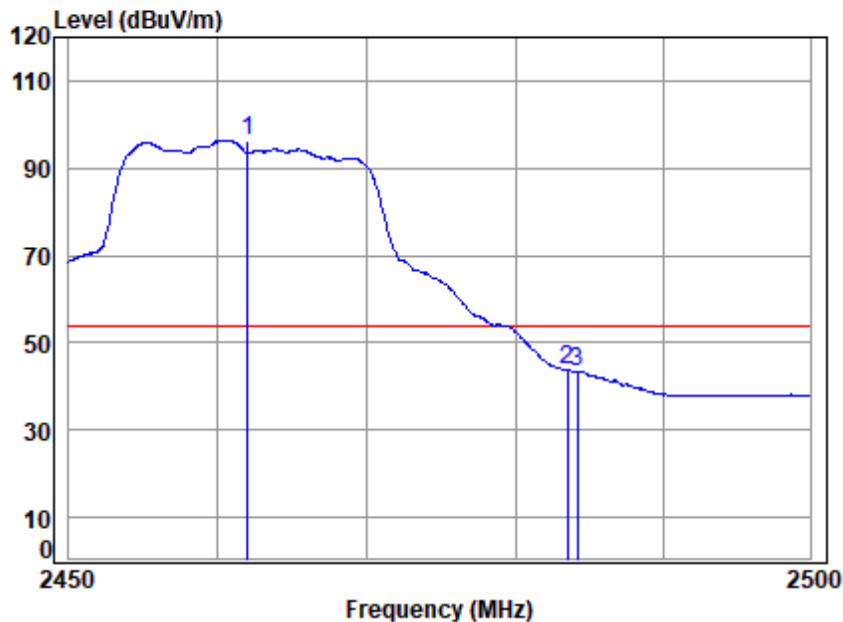


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	110.04	106.81	74.00	32.81 Peak
2	2483.50	5.16	28.90	37.22	54.88	51.72	74.00	-22.28 Peak
3	2484.39	5.16	28.90	37.21	58.07	54.92	74.00	-19.08 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

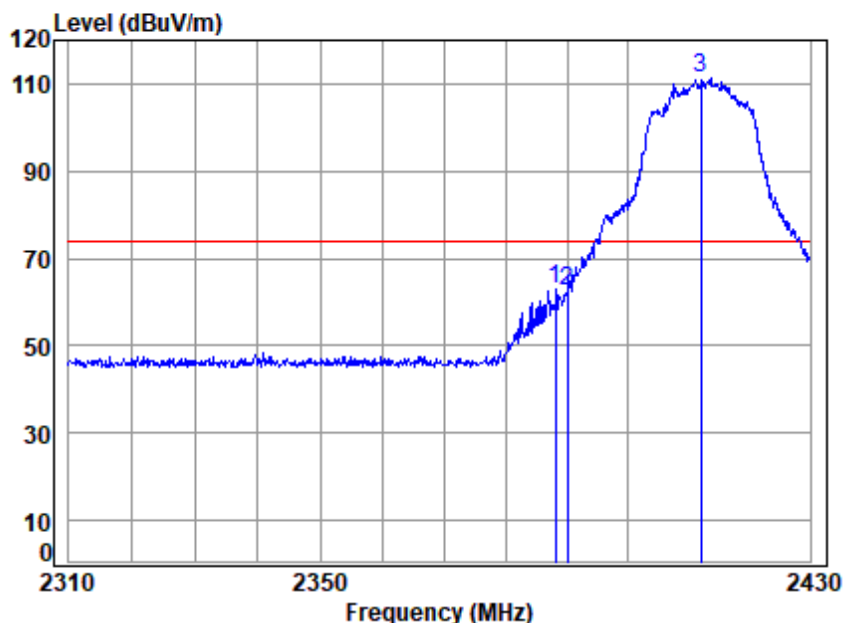


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	99.66	96.43	54.00	42.43 Average
2	2483.50	5.16	28.90	37.22	46.97	43.81	54.00	-10.19 Average
3	2484.19	5.16	28.90	37.21	46.72	43.57	54.00	-10.43 Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446HS

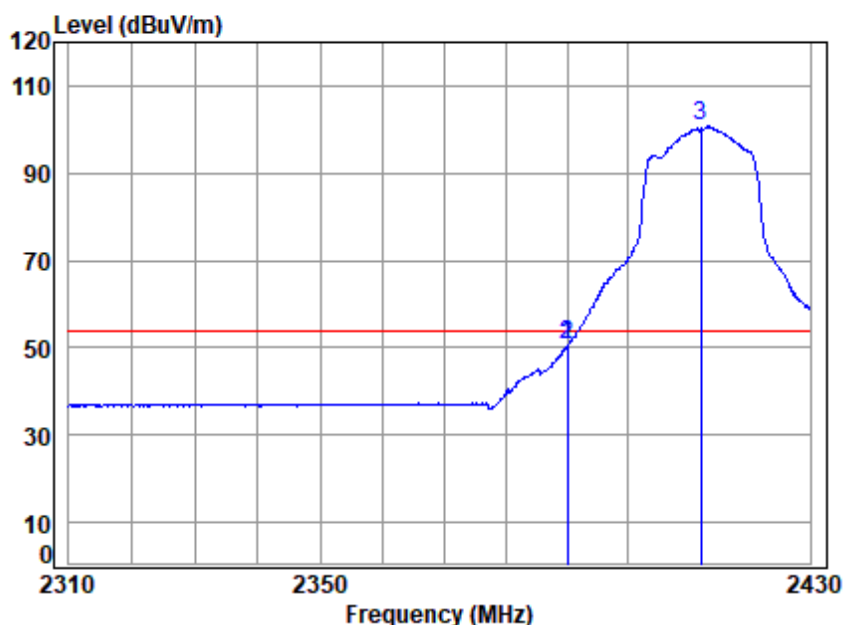
Mode : 2412 Band edge

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.15	5.07	29.10	37.44	66.17	62.90	74.00	-11.10 peak
2	2390.00	5.08	29.10	37.44	65.57	62.31	74.00	-11.69 peak
3	2412.00	5.10	29.05	37.38	114.59	111.36	74.00	37.36 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

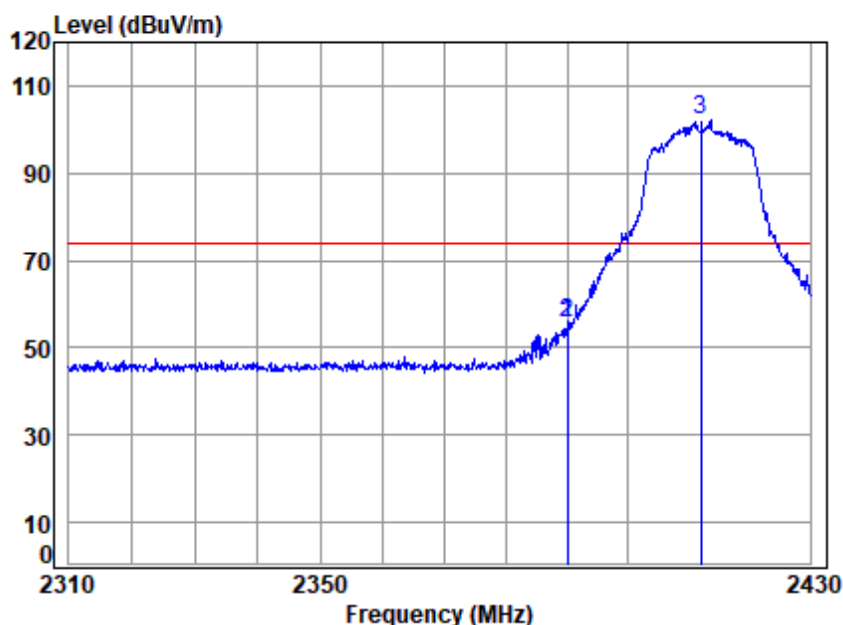


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.97	5.08	29.10	37.44	53.68	50.42	54.00	-3.58 Average
2	2390.00	5.08	29.10	37.44	53.68	50.42	54.00	-3.58 Average
3	2412.00	5.10	29.05	37.38	103.95	100.72	54.00	46.72 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

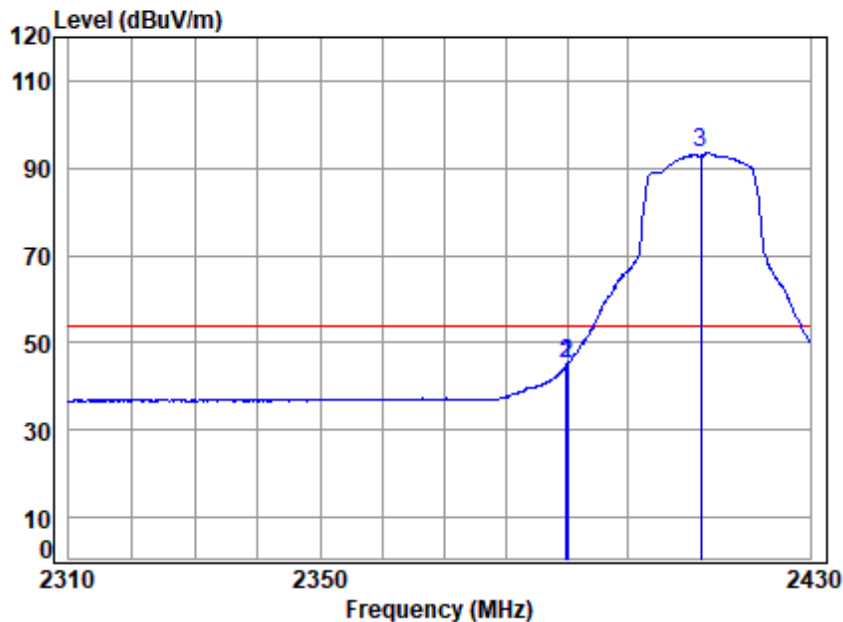


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2389.97	5.08	29.10	37.44	58.70	55.44	74.00	-18.56 Peak
2	2390.00	5.08	29.10	37.44	58.70	55.44	74.00	-18.56 Peak
3	2412.00	5.10	29.05	37.38	105.23	102.00	74.00	28.00 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

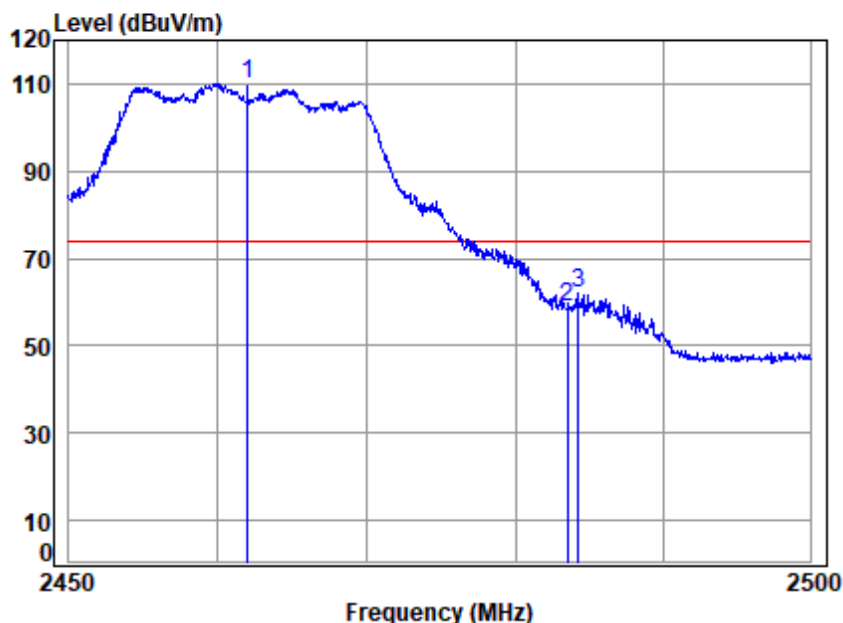
Mode : 2412 Band edge

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.85	5.08	29.10	37.44	48.21	44.95	54.00	-9.05 Average
2	2390.00	5.08	29.10	37.44	48.21	44.95	54.00	-9.05 Average
3	2412.00	5.10	29.05	37.38	96.79	93.56	54.00	39.56 Average



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446HS

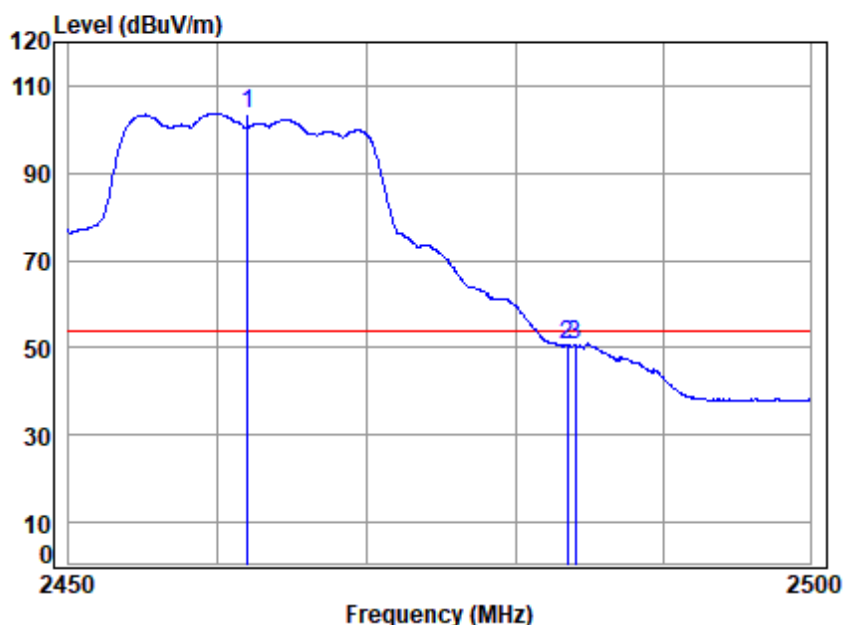
Mode : 2462 Band edge

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	113.30	110.07	74.00	36.07 peak
2	2483.50	5.16	28.90	37.22	62.10	58.94	74.00	-15.06 peak
3	2484.24	5.16	28.90	37.21	65.03	61.88	74.00	-12.12 peak



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

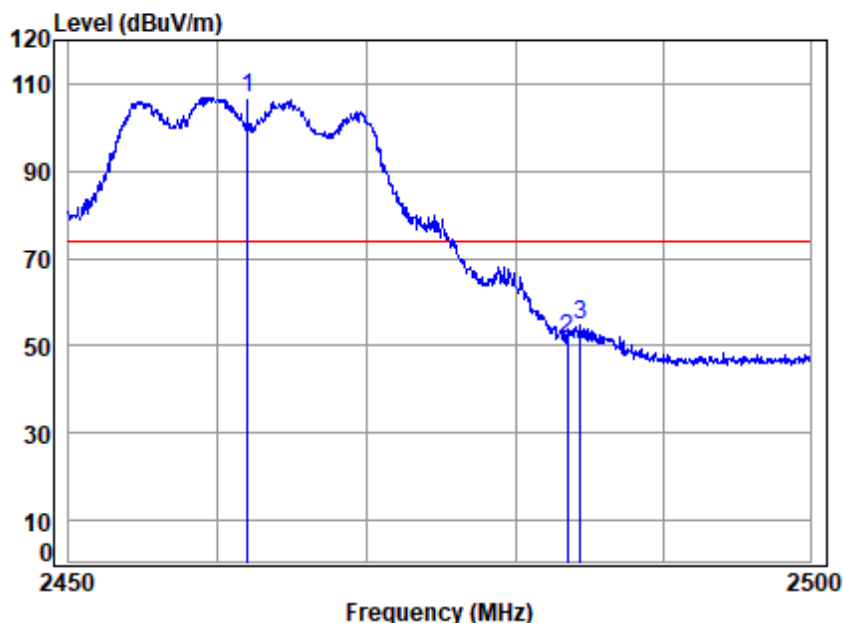


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	106.99	103.76	54.00	49.76 Average
2	2483.50	5.16	28.90	37.22	53.85	50.69	54.00	-3.31 Average
3	2484.09	5.16	28.90	37.22	53.74	50.58	54.00	-3.42 Average



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

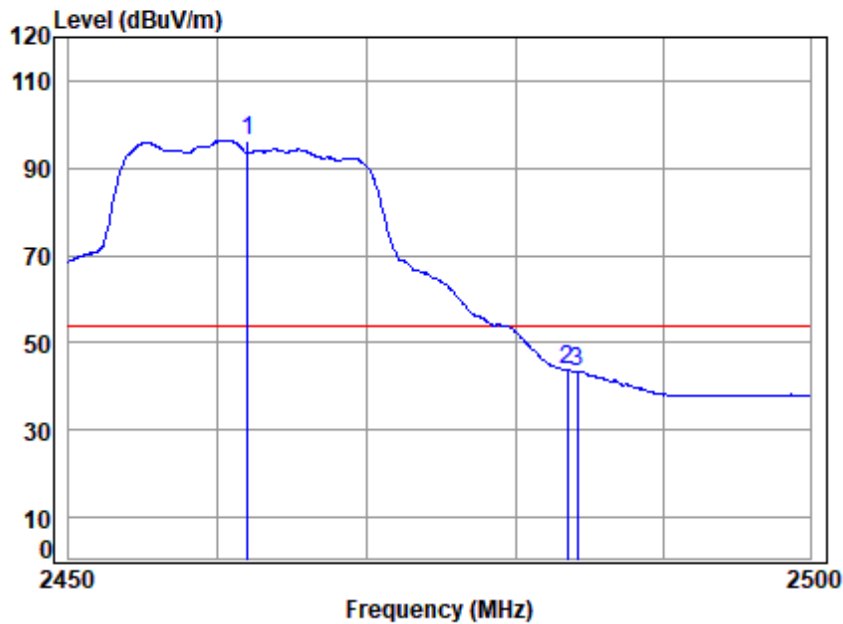
Mode : 2462 Band edge

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	110.04	106.81	74.00	32.81 Peak
2	2483.50	5.16	28.90	37.22	54.88	51.72	74.00	-22.28 Peak
3	2484.39	5.16	28.90	37.21	58.07	54.92	74.00	-19.08 Peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

Mode : 2462 Band edge

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.00	5.14	28.90	37.27	99.66	96.43	54.00	42.43 Average
2	2483.50	5.16	28.90	37.22	46.97	43.81	54.00	-10.19 Average
3	2484.19	5.16	28.90	37.21	46.72	43.57	54.00	-10.43 Average



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244606

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## 7.2 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1000 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.(AW-NM372SM)



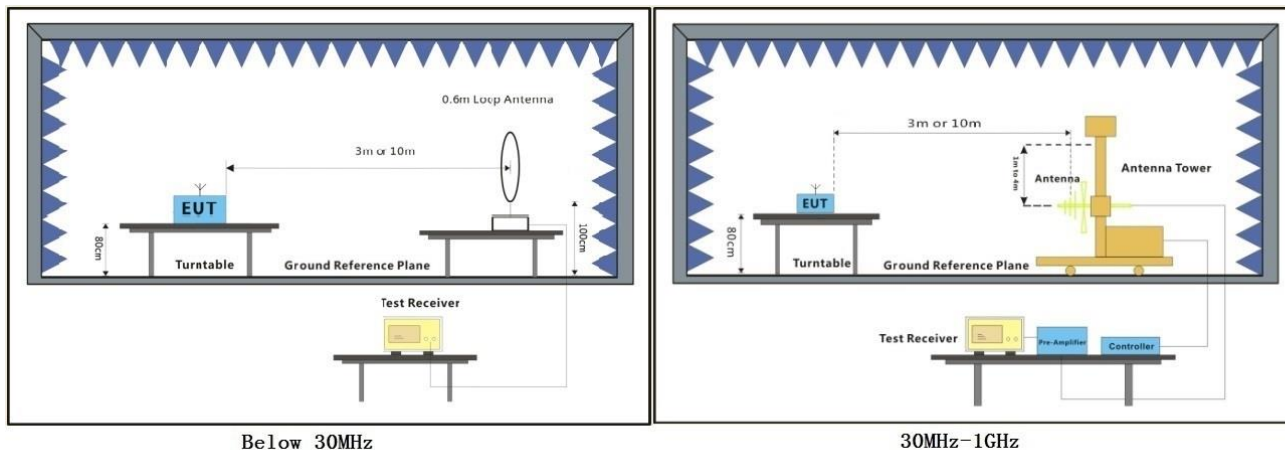
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Laboratory

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### 7.2.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

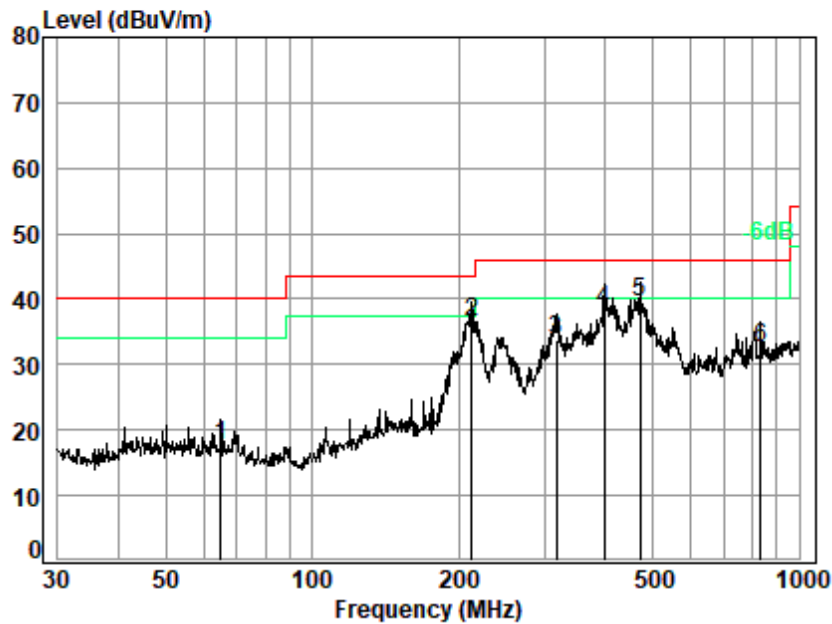
## 7.2.4 Measurement Procedure and Data

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

Remark:

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

Test Mode: 08; Polarity: Horizontal

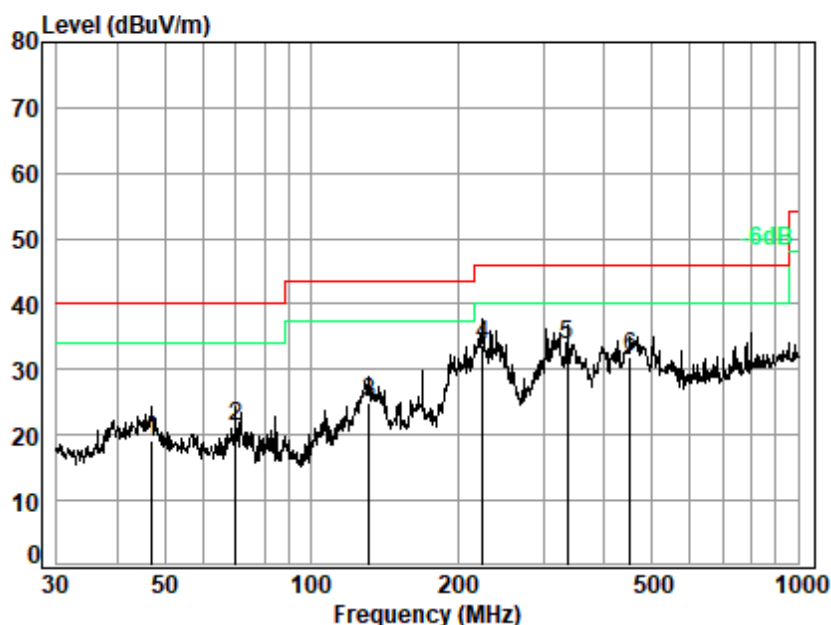


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 08

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	64.89	0.21	16.56	25.84	26.69	17.62	40.00	-22.38	QP
2	213.02	0.74	15.64	25.32	45.44	36.50	43.50	-7.00	QP
3	317.70	1.21	19.17	25.12	38.47	33.73	46.00	-12.27	QP
4	397.63	1.63	20.63	25.18	41.18	38.26	46.00	-7.74	QP
5	470.52	1.47	21.88	25.23	41.52	39.64	46.00	-6.36	QP
6	833.32	2.89	27.75	26.61	28.44	32.47	46.00	-13.53	QP



Test Mode: 08; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 08

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.99	0.20	17.27	25.87	27.64	19.24	40.00	-20.76	QP
2	69.84	0.32	15.97	25.83	30.81	21.27	40.00	-18.73	QP
3	131.30	0.98	16.67	25.63	33.02	25.04	43.50	-18.46	QP
4	224.52	0.78	15.97	25.28	42.29	33.76	46.00	-12.24	QP
5	336.04	1.38	19.71	25.13	37.73	33.69	46.00	-12.31	QP
6	452.72	1.50	21.71	25.22	34.05	32.04	46.00	-13.96	QP



### 7.3 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

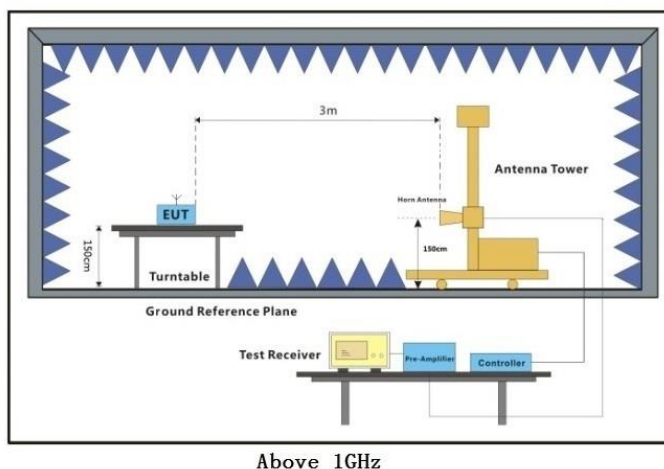
Humidity: 51.3 % RH

Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.(AW-NM372SM)

#### 7.3.3 Test Setup Diagram



## 7.3.4 Measurement Procedure and Data

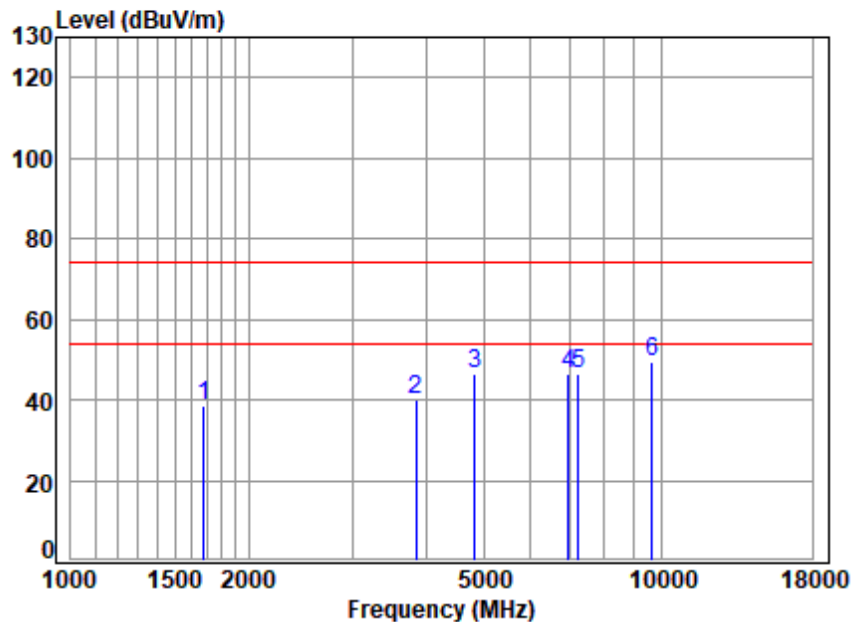
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

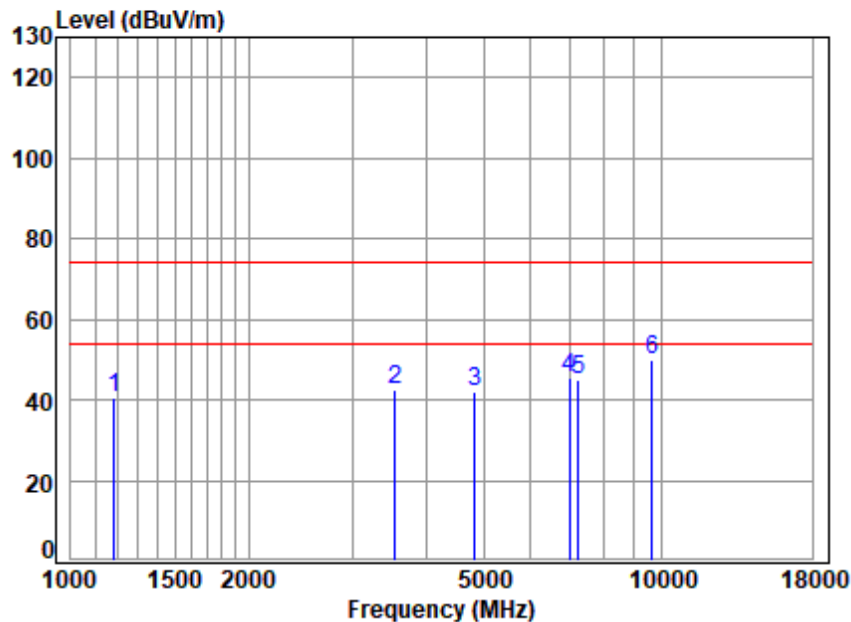


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	4.31	26.23	38.41	46.24	38.37	74.00	-35.63	peak
2	3845.54	6.62	33.04	36.11	36.27	39.82	74.00	-34.18	peak
3	4824.00	7.33	34.40	35.50	39.99	46.22	74.00	-27.78	peak
4	6954.85	8.89	35.79	35.54	37.24	46.38	74.00	-27.62	peak
5	7236.00	9.21	35.70	35.82	37.32	46.41	74.00	-27.59	peak
6	9648.00	12.39	37.50	37.45	36.95	49.39	74.00	-24.61	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02446HS  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.51	3.55	24.23	38.34	51.32	40.76	74.00	-33.24	peak
2	3546.58	6.28	31.60	36.12	40.52	42.28	74.00	-31.72	peak
3	4824.00	7.33	34.40	35.50	35.84	42.07	74.00	-31.93	peak
4	6995.17	8.92	35.71	35.57	36.46	45.52	74.00	-28.48	peak
5	7236.00	9.21	35.70	35.82	35.74	44.83	74.00	-29.17	peak
6	9648.00	12.39	37.50	37.45	37.26	49.70	74.00	-24.30	peak



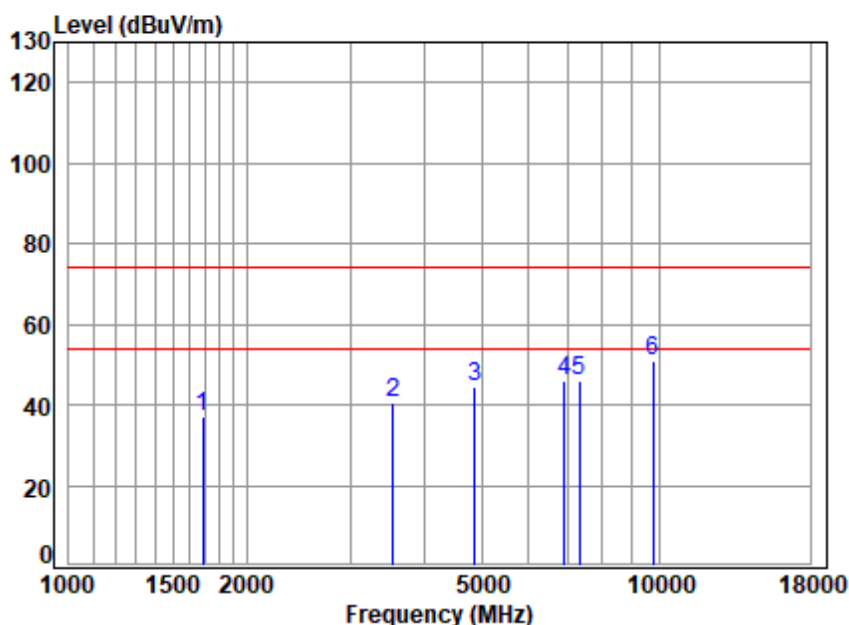
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244606

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Test Mode: 08; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.35	4.31	26.23	38.41	45.03	37.16	74.00	-36.84 peak
2	3546.58	6.28	31.60	36.12	38.59	40.35	74.00	-33.65 peak
3	4874.00	7.36	34.60	35.47	37.81	44.30	74.00	-29.70 peak
4	6914.76	8.86	35.66	35.52	36.80	45.80	74.00	-28.20 peak
5	7311.00	9.30	35.70	35.89	36.72	45.83	74.00	-28.17 peak
6	9748.00	12.46	37.40	37.43	38.49	50.92	74.00	-23.08 peak



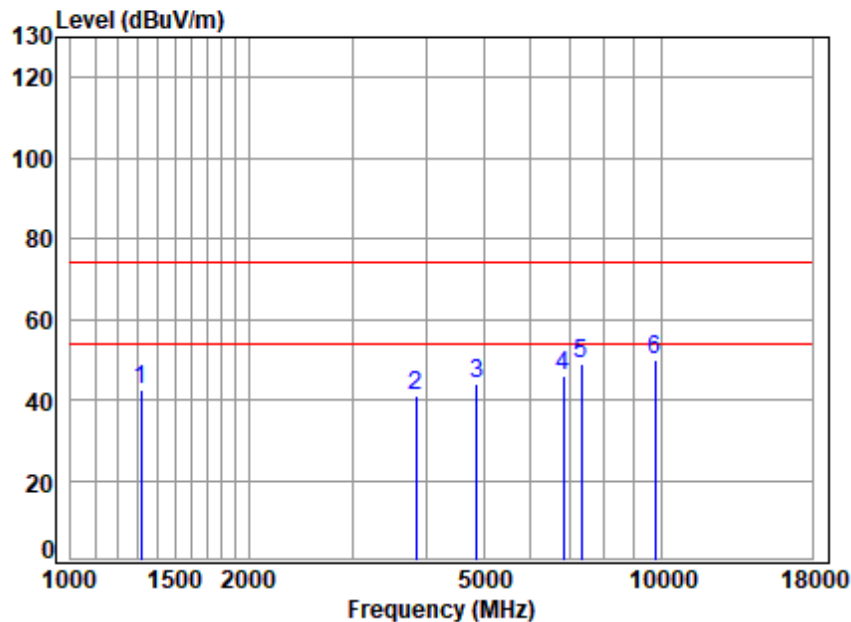
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Laboratory

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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

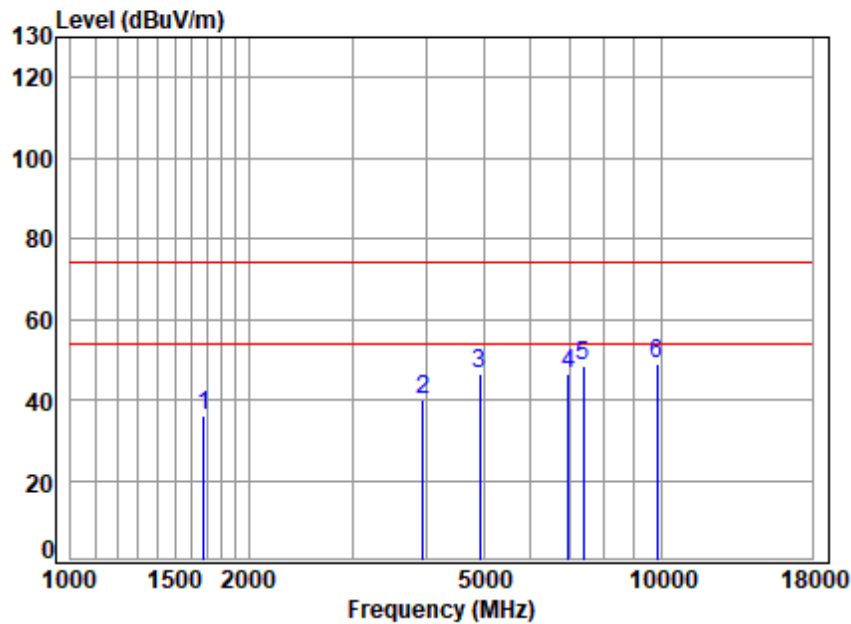


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1315.99	3.78	24.70	38.36	52.48	42.60	74.00	-31.40 peak
2	3845.54	6.62	33.04	36.11	37.24	40.79	74.00	-33.21 peak
3	4874.00	7.36	34.60	35.47	37.68	44.17	74.00	-29.83 peak
4	6835.28	8.80	35.44	35.47	36.96	45.73	74.00	-28.27 peak
5	7311.00	9.30	35.70	35.89	39.92	49.03	74.00	-24.97 peak
6	9748.00	12.46	37.40	37.43	37.34	49.77	74.00	-24.23 peak



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High

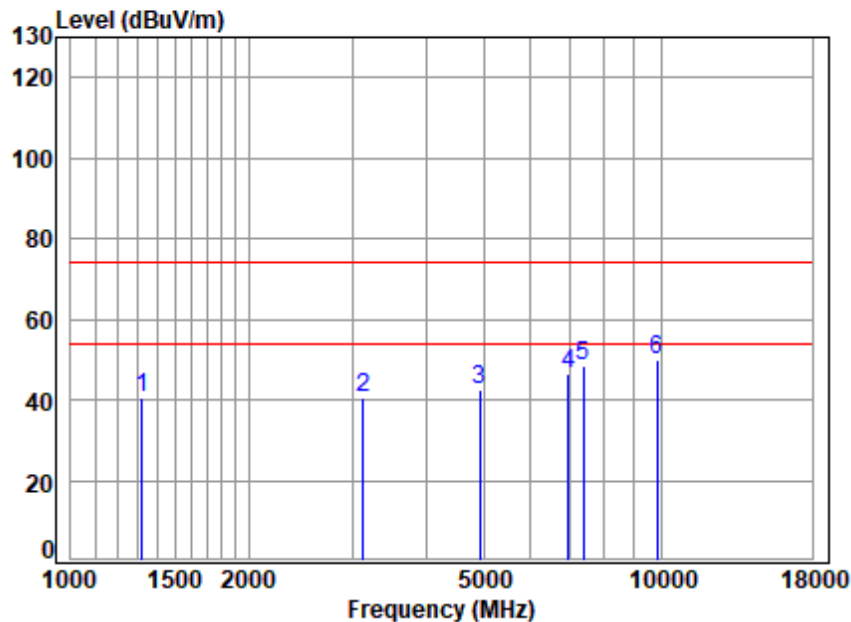


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02446HS  
 Mode : 2462 TX RSE  
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	4.31	26.23	38.41	44.18	36.31	74.00	-37.69	peak
2	3946.89	6.72	33.52	36.10	35.92	40.06	74.00	-33.94	peak
3	4924.00	7.39	34.65	35.44	39.98	46.58	74.00	-27.42	peak
4	6954.85	8.89	35.79	35.54	37.21	46.35	74.00	-27.65	peak
5	7386.00	9.39	35.77	35.97	39.17	48.36	74.00	-25.64	peak
6	9848.00	12.53	37.20	37.40	36.84	49.17	74.00	-24.83	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

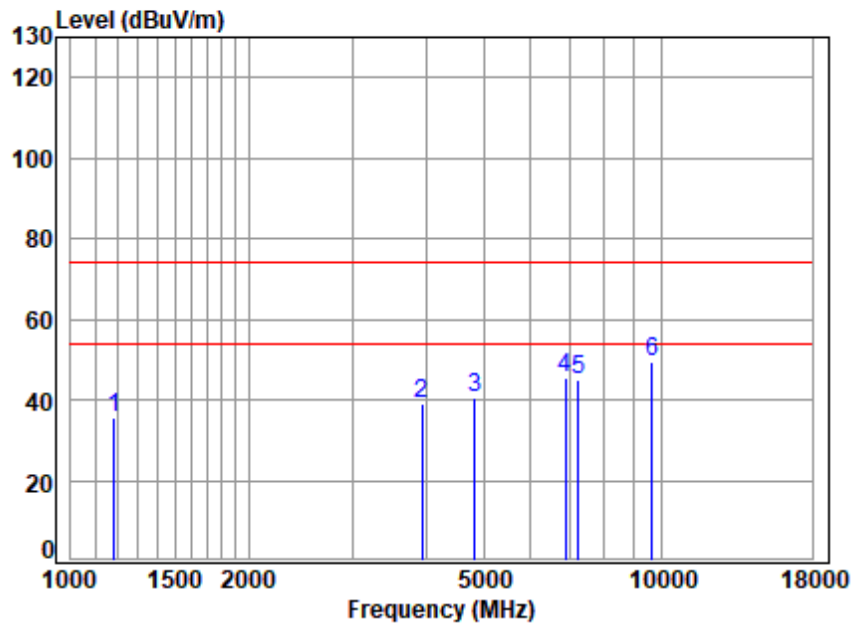


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1319.79	3.79	24.68	38.36	50.27	40.38	74.00	-33.62 peak
2	3123.04	5.75	32.02	36.13	38.68	40.32	74.00	-33.68 peak
3	4924.00	7.39	34.65	35.44	36.02	42.62	74.00	-31.38 peak
4	6954.85	8.89	35.79	35.54	37.10	46.24	74.00	-27.76 peak
5	7386.00	9.39	35.77	35.97	39.10	48.29	74.00	-25.71 peak
6	9848.00	12.53	37.20	37.40	37.59	49.92	74.00	-24.08 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

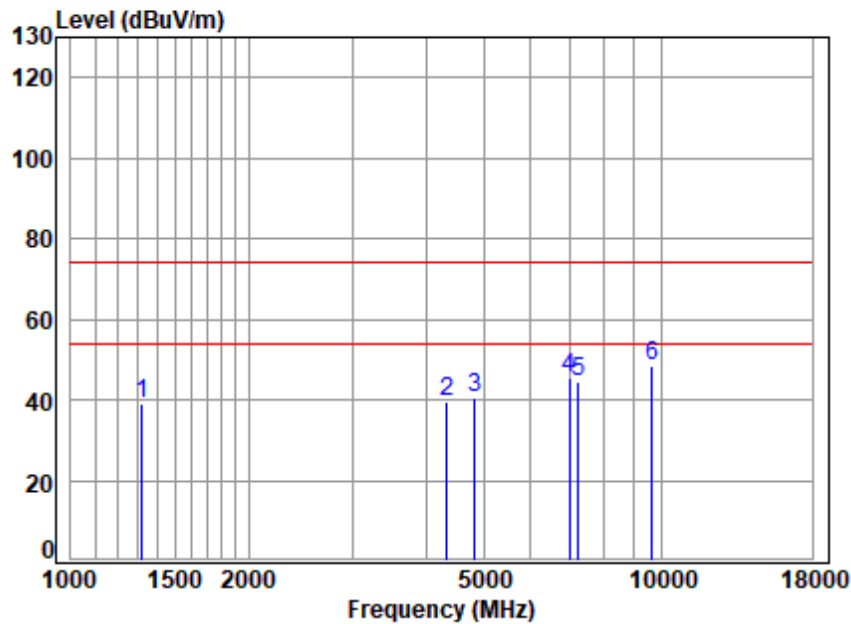


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.51	3.55	24.23	38.34	46.05	35.49	74.00	-38.51	peak
2	3935.49	6.71	33.59	36.10	35.07	39.27	74.00	-34.73	peak
3	4824.00	7.33	34.40	35.50	34.14	40.37	74.00	-33.63	peak
4	6874.91	8.83	35.55	35.49	36.64	45.53	74.00	-28.47	peak
5	7236.00	9.21	35.70	35.82	35.90	44.99	74.00	-29.01	peak
6	9648.00	12.39	37.50	37.45	36.78	49.22	74.00	-24.78	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

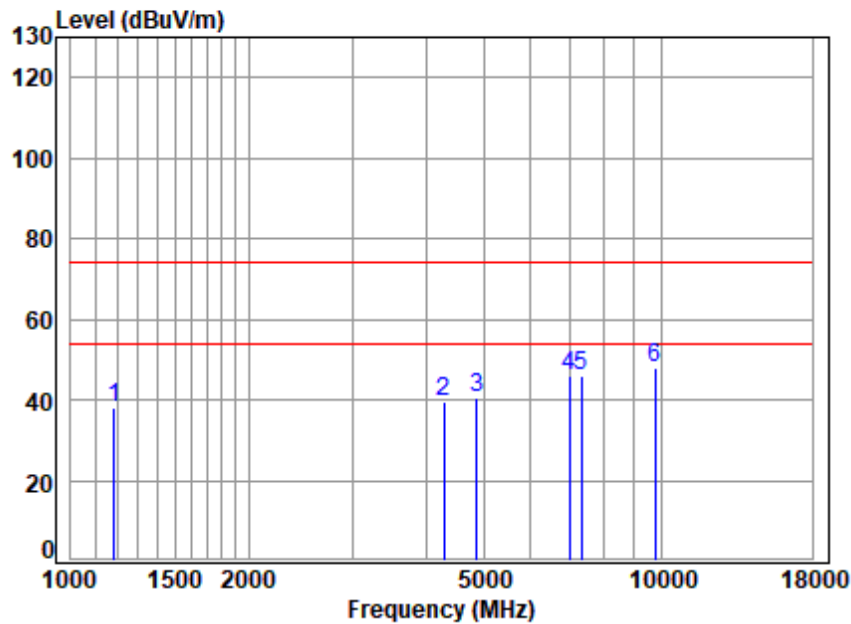


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.79	3.79	24.68	38.36	48.89	39.00	74.00	-35.00	peak
2	4329.35	7.01	34.24	35.85	34.04	39.44	74.00	-34.56	peak
3	4824.00	7.33	34.40	35.50	34.21	40.44	74.00	-33.56	peak
4	6995.17	8.92	35.71	35.57	36.31	45.37	74.00	-28.63	peak
5	7236.00	9.21	35.70	35.82	35.39	44.48	74.00	-29.52	peak
6	9648.00	12.39	37.50	37.45	36.21	48.65	74.00	-25.35	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

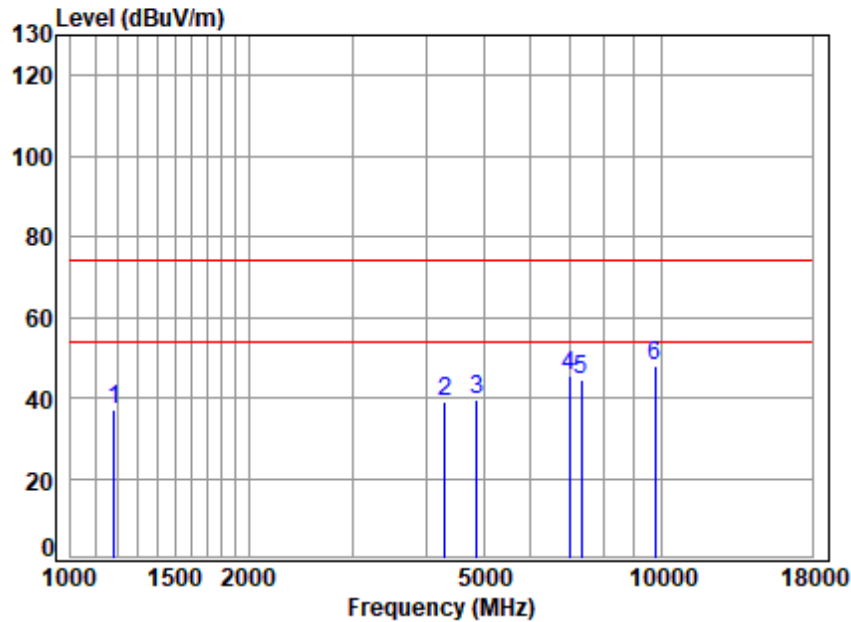


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02446HS  
 Mode : 2437 TX RSE  
 Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.51	3.55	24.23	38.34	48.61	38.05	74.00	-35.95 peak
2	4291.98	6.99	33.97	35.88	34.58	39.66	74.00	-34.34 peak
3	4874.00	7.36	34.60	35.47	33.81	40.30	74.00	-33.70 peak
4	6974.98	8.90	35.75	35.55	36.95	46.05	74.00	-27.95 peak
5	7311.00	9.30	35.70	35.89	36.98	46.09	74.00	-27.91 peak
6	9748.00	12.46	37.40	37.43	35.41	47.84	74.00	-26.16 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

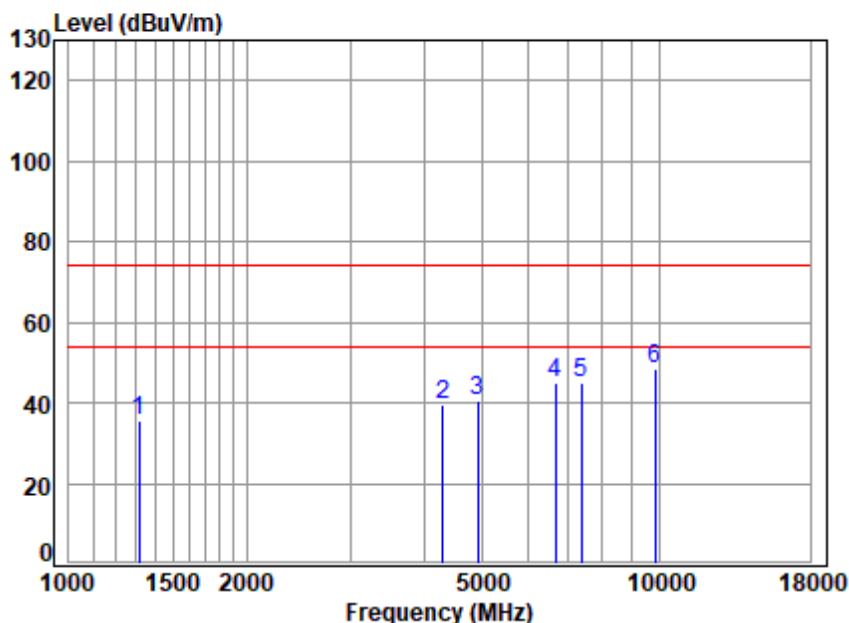


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.51	3.55	24.23	38.34	47.56	37.00	74.00	-37.00	peak
2	4304.40	6.99	34.04	35.87	34.08	39.24	74.00	-34.76	peak
3	4874.00	7.36	34.60	35.47	33.24	39.73	74.00	-34.27	peak
4	6995.17	8.92	35.71	35.57	36.35	45.41	74.00	-28.59	peak
5	7311.00	9.30	35.70	35.89	35.58	44.69	74.00	-29.31	peak
6	9748.00	12.46	37.40	37.43	35.48	47.91	74.00	-26.09	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

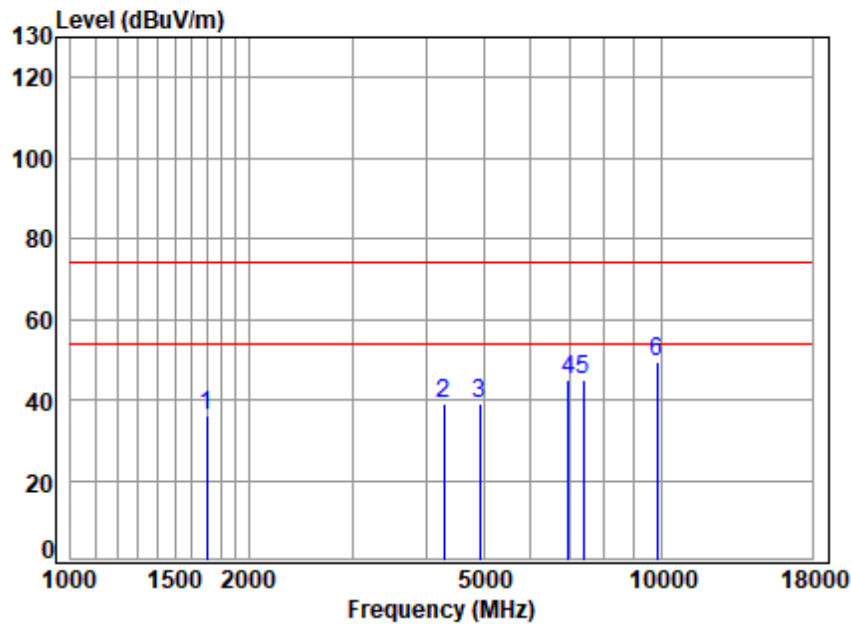


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1315.99	3.78	24.70	38.36	45.57	35.69	74.00	-38.31 peak
2	4304.40	6.99	34.04	35.87	34.32	39.48	74.00	-34.52 peak
3	4924.00	7.39	34.65	35.44	33.83	40.43	74.00	-33.57 peak
4	6659.76	8.68	35.20	35.35	36.34	44.87	74.00	-29.13 peak
5	7386.00	9.39	35.77	35.97	35.57	44.76	74.00	-29.24 peak
6	9848.00	12.53	37.20	37.40	36.26	48.59	74.00	-25.41 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

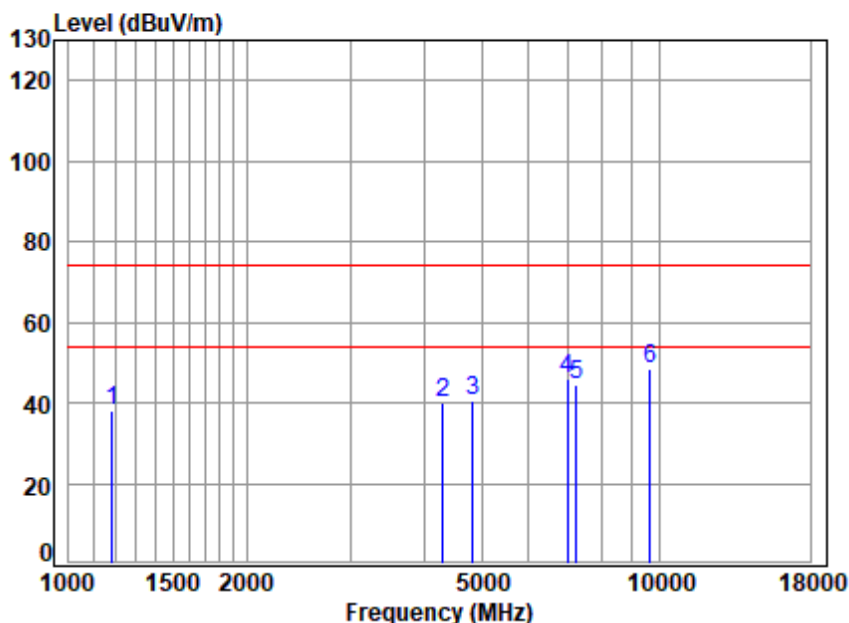


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02446HS  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.04	4.33	26.22	38.42	44.10	36.23	74.00	-37.77	peak
2	4291.98	6.99	33.97	35.88	34.13	39.21	74.00	-34.79	peak
3	4924.00	7.39	34.65	35.44	32.50	39.10	74.00	-34.90	peak
4	6954.85	8.89	35.79	35.54	36.04	45.18	74.00	-28.82	peak
5	7386.00	9.39	35.77	35.97	35.62	44.81	74.00	-29.19	peak
6	9848.00	12.53	37.20	37.40	37.09	49.42	74.00	-24.58	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446HS

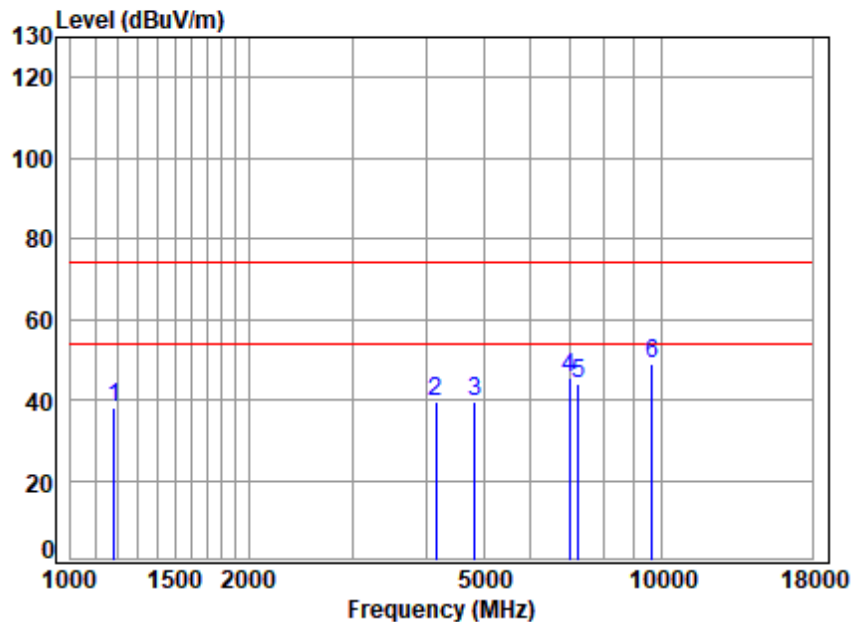
Mode : 2412 TX RSE

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1185.94	3.56	24.26	38.34	48.60	38.08	74.00	-35.92 peak
2	4304.40	6.99	34.04	35.87	34.99	40.15	74.00	-33.85 peak
3	4824.00	7.33	34.40	35.50	34.11	40.34	74.00	-33.66 peak
4	6995.17	8.92	35.71	35.57	36.78	45.84	74.00	-28.16 peak
5	7236.00	9.21	35.70	35.82	35.43	44.52	74.00	-29.48 peak
6	9648.00	12.39	37.50	37.45	35.90	48.34	74.00	-25.66 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

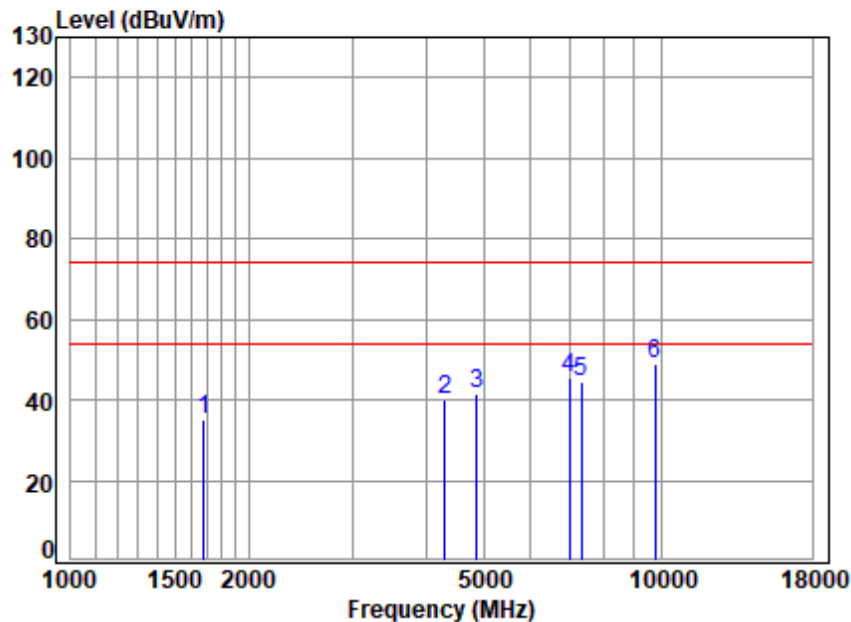
Mode : 2412 TX RSE

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.51	3.55	24.23	38.34	48.78	38.22	74.00	-35.78 peak
2	4145.66	6.88	33.73	35.99	35.00	39.62	74.00	-34.38 peak
3	4824.00	7.33	34.40	35.50	33.44	39.67	74.00	-34.33 peak
4	6974.98	8.90	35.75	35.55	36.18	45.28	74.00	-28.72 peak
5	7236.00	9.21	35.70	35.82	35.13	44.22	74.00	-29.78 peak
6	9648.00	12.39	37.50	37.45	36.63	49.07	74.00	-24.93 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

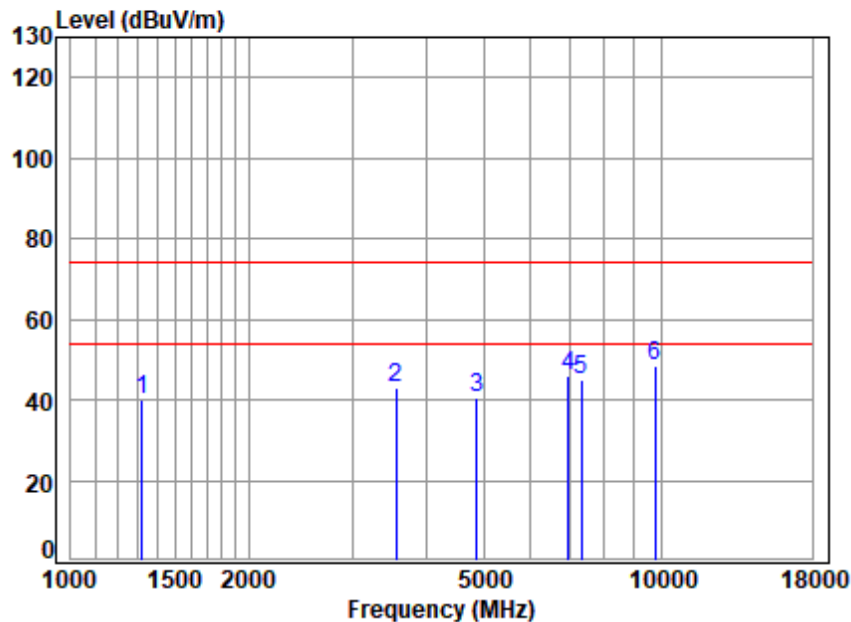


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02446HS  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4.30	26.24	38.41	43.14	35.27	74.00	-38.73
2	6.99	34.04	35.87	34.77	39.93	74.00	-34.07
3	7.36	34.60	35.47	34.80	41.29	74.00	-32.71
4	8.90	35.75	35.55	36.53	45.63	74.00	-28.37
5	9.30	35.70	35.89	35.54	44.65	74.00	-29.35
6	12.46	37.40	37.43	36.41	48.84	74.00	-25.16



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

Mode : 2437 TX RSE

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1319.79	3.79	24.68	38.36	49.79	39.90	74.00	-34.10 peak
2	3556.84	6.29	31.67	36.12	41.16	43.00	74.00	-31.00 peak
3	4874.00	7.36	34.60	35.47	34.25	40.74	74.00	-33.26 peak
4	6954.85	8.89	35.79	35.54	36.74	45.88	74.00	-28.12 peak
5	7311.00	9.30	35.70	35.89	36.07	45.18	74.00	-28.82 peak
6	9748.00	12.46	37.40	37.43	36.18	48.61	74.00	-25.39 peak



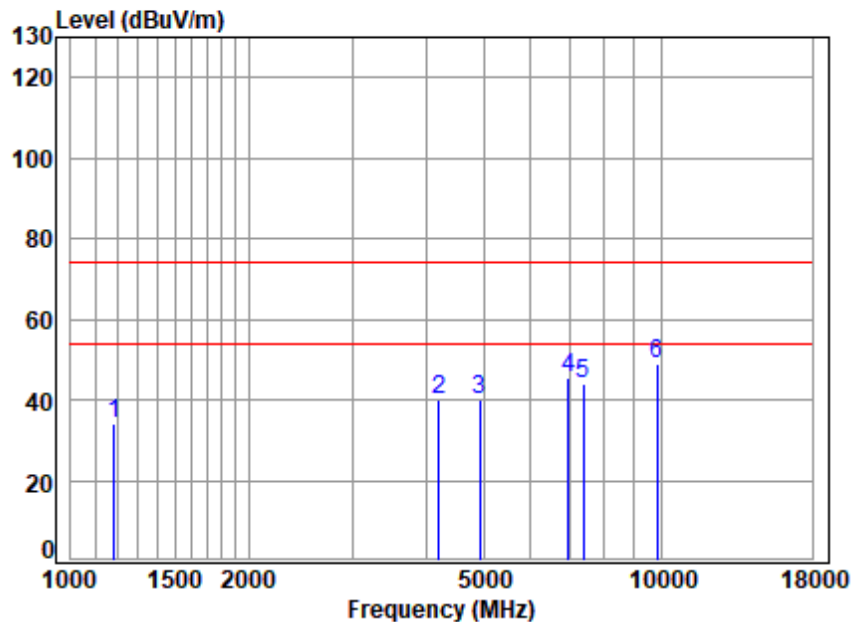
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446HS

Mode : 2462 TX RSE

Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.94	3.56	24.26	38.34	44.66	34.14	74.00	-39.86	peak
2	4206.01	6.93	33.80	35.94	35.02	39.81	74.00	-34.19	peak
3	4924.00	7.39	34.65	35.44	33.61	40.21	74.00	-33.79	peak
4	6954.85	8.89	35.79	35.54	36.10	45.24	74.00	-28.76	peak
5	7386.00	9.39	35.77	35.97	34.68	43.87	74.00	-30.13	peak
6	9848.00	12.53	37.20	37.40	36.70	49.03	74.00	-24.97	peak



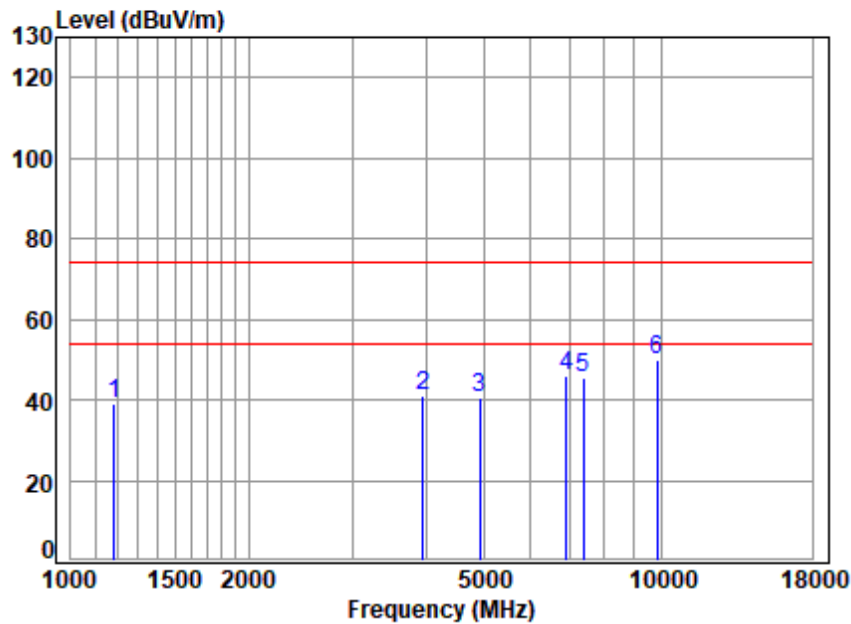
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02446HS

Mode : 2462 TX RSE

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1182.51	3.55	24.23	38.34	49.53	38.97	74.00	-35.03 peak
2	3946.89	6.72	33.52	36.10	36.98	41.12	74.00	-32.88 peak
3	4924.00	7.39	34.65	35.44	34.06	40.66	74.00	-33.34 peak
4	6914.76	8.86	35.66	35.52	36.95	45.95	74.00	-28.05 peak
5	7386.00	9.39	35.77	35.97	36.31	45.50	74.00	-28.50 peak
6	9848.00	12.53	37.20	37.40	37.82	50.15	74.00	-23.85 peak



### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2307002446HS

### 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2307002446HS

- End of the Report -

