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Report No.: SZEM180800706701  
Page: 1 of 45

## TEST REPORT

**Application No.:** SZEM1808007067CR  
**Applicant:** Zhuhai Pantum Electronics Co., Ltd  
**Address of Applicant:** Area A, 3rd floor, Building No.1, No.3883, Zhuhai Avenue, Zhuhai, Guangdong, China  
**Manufacturer:** Zhuhai Pantum Electronics Co., Ltd  
**Address of Manufacturer:** Area A, 3rd floor, Building No.1, No.3883, Zhuhai Avenue, Zhuhai, Guangdong, China  
**Factory:** Zhuhai Pantum Electronics Co., Ltd  
**Address of Factory:** No.3883, Zhuhai Avenue, Zhuhai, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Monochrome Laser Printer  
**Model No.:** P2500W, P2502W, P2506W, P2501W, P2503W, P2504W, P2505W, P2507W, P2508W, P2509W, P2510W, P2512W, P2200W, P2206W, P2208W, P2500NW \*  
\* Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade mark:** PANTUM  
**FCC ID:** 2AEGOPANTUM-2  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2018-08-07  
**Date of Test:** 2018-08-17  
**Date of Issue:** 2018-08-21

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



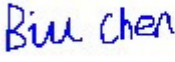

Keny Xu  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2018-08-21		Original

Authorized for issue by:				
				
		<hr/>		
		Bill Chen /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		

## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass

**Remark:**

Model No.: P2500W, P2502W, P2506W, P2501W, P2503W, P2504W, P2505W, P2507W, P2508W, P2509W, P2510W, P2512W, P2200W, P2206W, P2208W, P2500NW

Only the model P2500 NW was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model number.

This test report (Ref. No.: SZEM180800706701) is only valid with the original test report (Ref. No.: SZEM170700752302).

Compared with the original report, this report changed the address of factory and added the model No. According to the declaration from the applicant, the models in this report and the models in original report were identical in the electrical circuit design, layout, components used, internal wiring and functions, with only difference on models in this report different power panel.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Peak Output Power and Conducted Emissions at AC Power Line (150kHz-30MHz) and Radiated Spurious Emissions were fully retested on model P2500W and shown the data in this report, other tests please refer to original report SZEM170700752302.



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## 4 General Information

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

Power supply:	AC 100-127V 50/60Hz
Test voltage:	AC 120V 60Hz
Cable:	AC Cable:150cm unscreened USB Port:1.45m screened USB cable
Antenna Gain	2dBi
Antenna Type	Integral
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2422MHz	3	2432MHz	5	2442MHz	7	2452MHz
2	2427MHz	4	2437MHz	6	2447MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

## 4.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Laptop	Lenovo	T430u
Test board	Supply to SGS	FT232

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



#### **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, 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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### **4.6 Deviation from Standards**

None

#### **4.7 Abnormalities from Standard Conditions**

None



## 5 Equipment List

<b>RF Conducted Test</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2018-04-13	2019-04-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2018-04-13	2019-04-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2018-04-13	2019-04-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2018-04-13	2019-04-12

<b>Conducted Emissions at AC Power Line (150kHz-30MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

<b>RE in Chamber</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal. Date (yyyy-mm-dd)</b>	<b>Cal. Due date (yyyy-mm-dd)</b>
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11





<b>Radiated Spurious Emissions</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07

## 6 Radio Spectrum Matter Test Results

### 6.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)  
Test Method: ANSI C63.10 (2013) Section 11.9.1  
Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

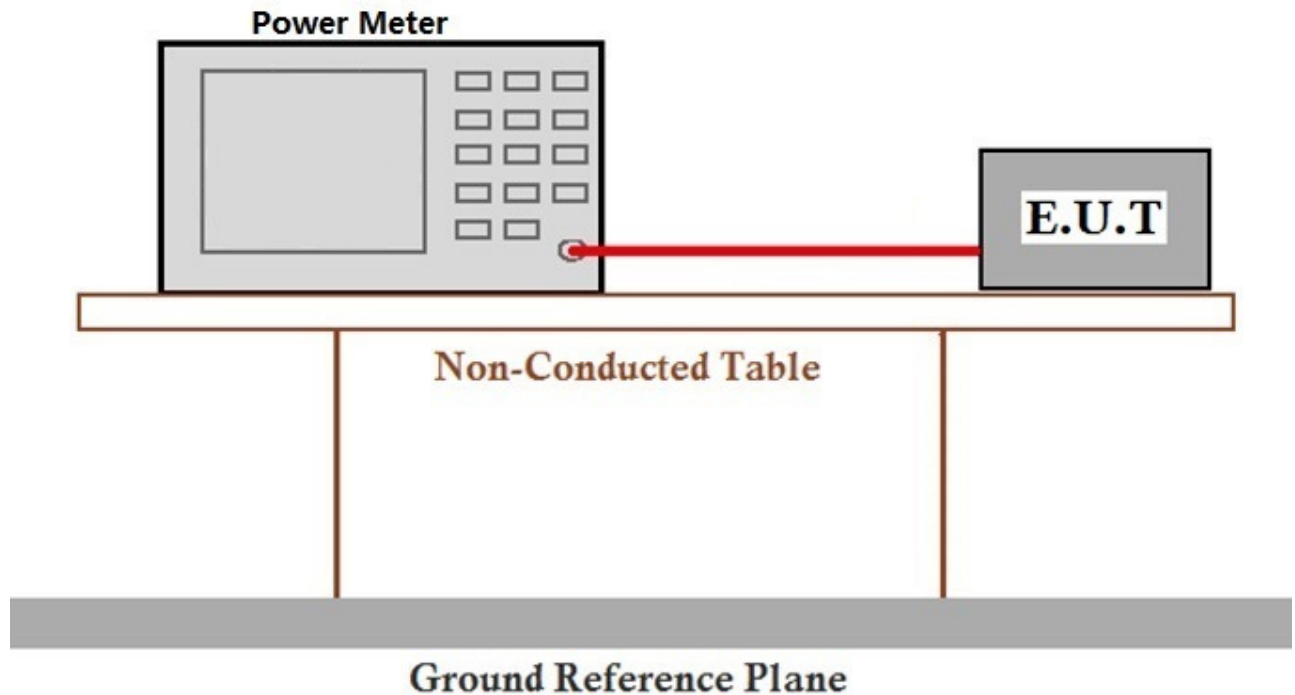
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 56.2 % RH Atmospheric Pressure: 1000 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

**6.1.2 Test Setup Diagram**



**6.1.3 Measurement Procedure and Data**

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
11B	2412	Ant1	15.37	<30	PASS
11B	2437	Ant1	15.53	<30	PASS
11B	2462	Ant1	16.03	<30	PASS
11G	2412	Ant1	17.61	<30	PASS
11G	2437	Ant1	17.93	<30	PASS
11G	2462	Ant1	18.14	<30	PASS
11N20SISO	2412	Ant1	19.26	<30	PASS
11N20SISO	2437	Ant1	18.38	<30	PASS
11N20SISO	2462	Ant1	17.89	<30	PASS
11N40SISO	2422	Ant1	18.25	<30	PASS
11N40SISO	2437	Ant1	18.71	<30	PASS
11N40SISO	2452	Ant1	18.06	<30	PASS



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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

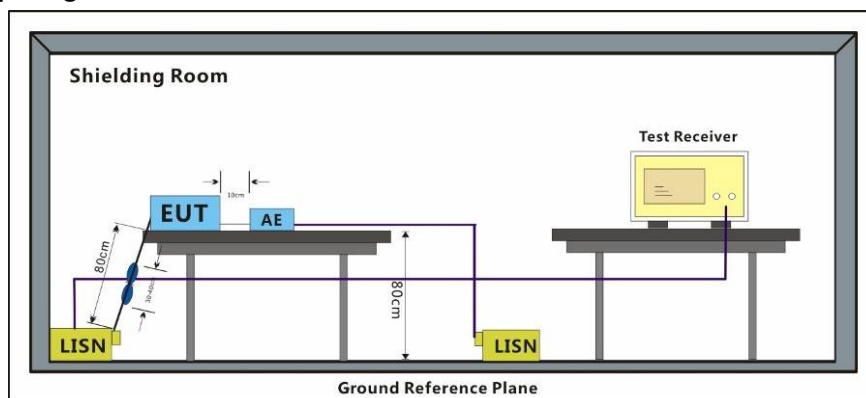
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C      Humidity: 56.2 % RH      Atmospheric Pressure: 1000 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 6.2.2 Test Setup Diagram



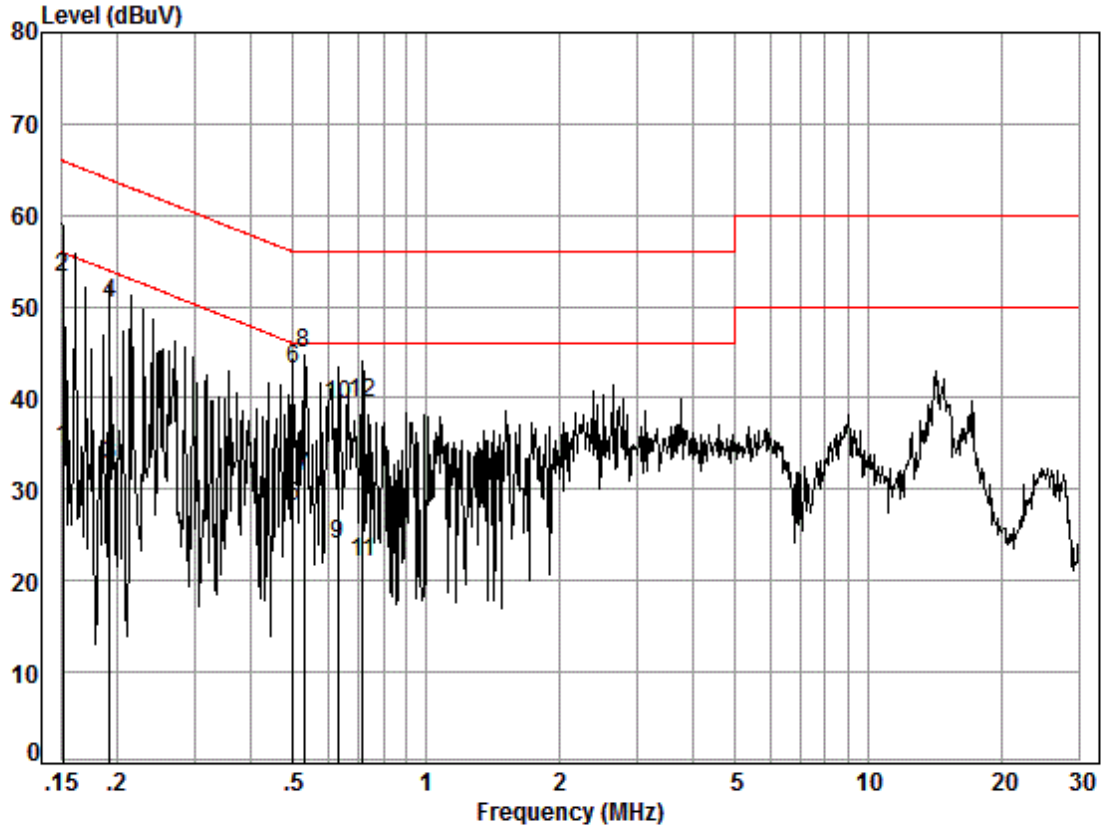
### 6.2.3 Measurement Procedure and Data

- 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



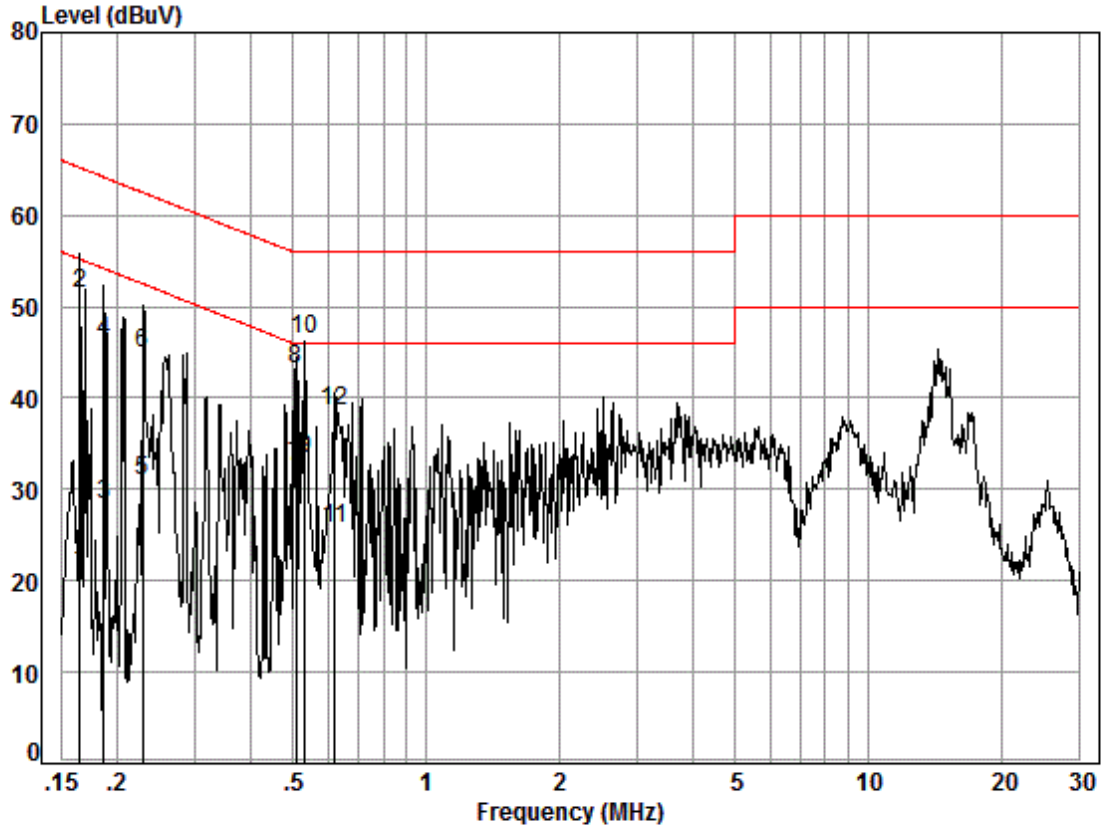
Mode:a; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 07066/07067IT  
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.51	24.95	34.48	55.96	-21.48	Average
2	0.15	0.02	9.51	43.73	53.26	65.96	-12.70	QP
3	0.19	0.03	9.50	23.20	32.73	53.93	-21.20	Average
4	0.19	0.03	9.50	40.93	50.46	63.93	-13.47	QP
5	0.50	0.04	9.49	18.50	28.03	46.01	-17.98	Average
6	0.50	0.04	9.49	33.66	43.19	56.01	-12.82	QP
7	0.53	0.05	9.50	21.76	31.31	46.00	-14.69	Average
8	0.53	0.05	9.50	35.37	44.92	56.00	-11.08	QP
9	0.63	0.06	9.52	14.47	24.05	46.00	-21.95	Average
10	0.63	0.06	9.52	29.60	39.18	56.00	-16.82	QP
11	0.72	0.07	9.49	12.36	21.92	46.00	-24.08	Average
12	0.72	0.07	9.49	29.91	39.47	56.00	-16.53	QP

Mode:a; Line:Neutral Line



Site : Shielding Room  
 Condition: Neutral  
 Job No. : 07066/07067IT  
 Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.59	11.30	20.91	55.21	-34.30	Average
2	0.17	0.02	9.59	41.79	51.40	65.21	-13.81	QP
3	0.19	0.03	9.58	18.71	28.32	54.20	-25.88	Average
4	0.19	0.03	9.58	36.56	46.17	64.20	-18.03	QP
5	0.23	0.03	9.58	21.34	30.95	52.52	-21.57	Average
6	0.23	0.03	9.58	35.30	44.91	62.52	-17.61	QP
7	0.51	0.04	9.60	22.82	32.46	46.00	-13.54	Average
8	0.51	0.04	9.60	33.53	43.17	56.00	-12.83	QP
9	0.53	0.05	9.61	23.63	33.29	46.00	-12.71	Average
10	0.53	0.05	9.61	36.82	46.48	56.00	-9.52	QP
11	0.62	0.06	9.62	16.01	25.69	46.00	-20.31	Average
12	0.62	0.06	9.62	28.95	38.63	56.00	-17.37	QP



### 6.3 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6  
Measurement Distance: 3m  
Limit:

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

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



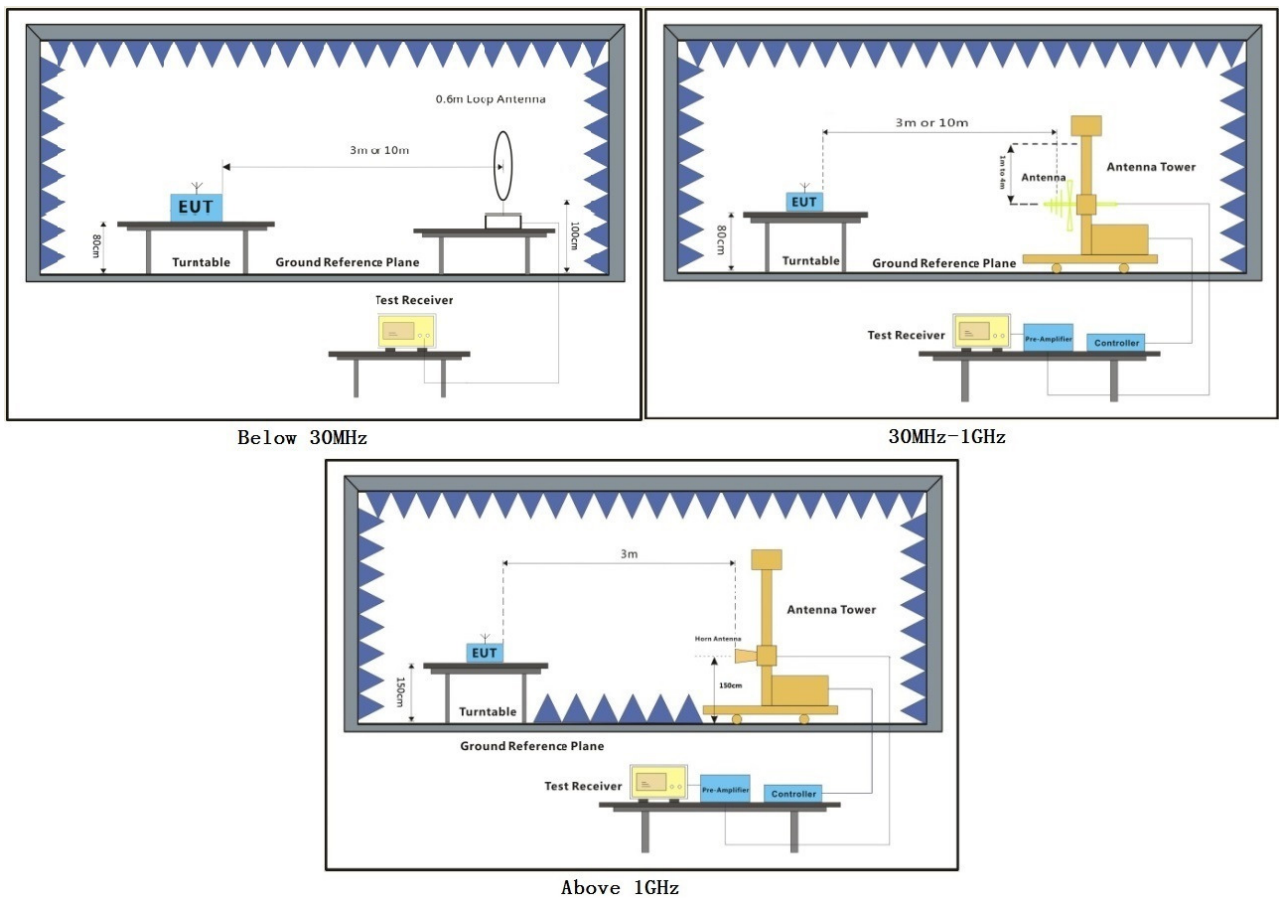
### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.6 % RH Atmospheric Pressure: 1000 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 6.3.2 Test Setup Diagram



### 6.3.3 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.

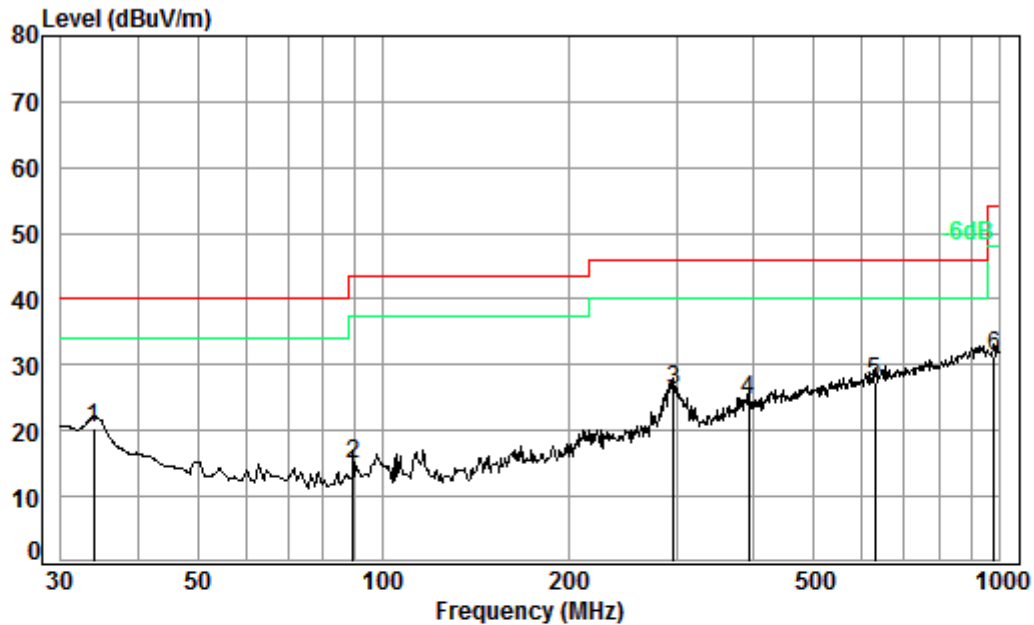
#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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.

**30MHz~1GHz**

QP value:

Mode: a; Polarization: Horizontal;



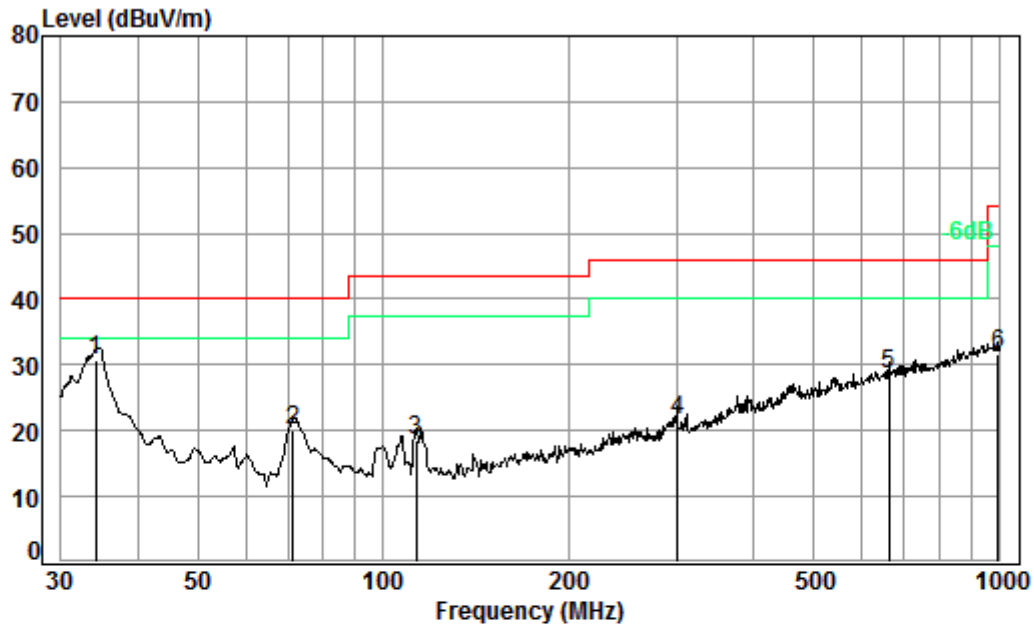
Condition: 3m HORIZONTAL

Job No. : 07067CR

Test mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.92	0.60	20.37	27.44	26.73	20.26	40.00	-19.74	
2	89.59	1.10	13.06	27.36	28.25	15.05	43.50	-28.45	
3	296.18	1.88	19.45	26.65	31.37	26.05	46.00	-19.95	
4	392.10	2.18	22.21	27.15	27.26	24.50	46.00	-21.50	
5 pp	629.48	2.76	27.00	27.90	25.64	27.50	46.00	-18.50	
6	982.62	3.68	30.22	26.62	23.98	31.26	54.00	-22.74	

Mode :a; Polarization: Vertical



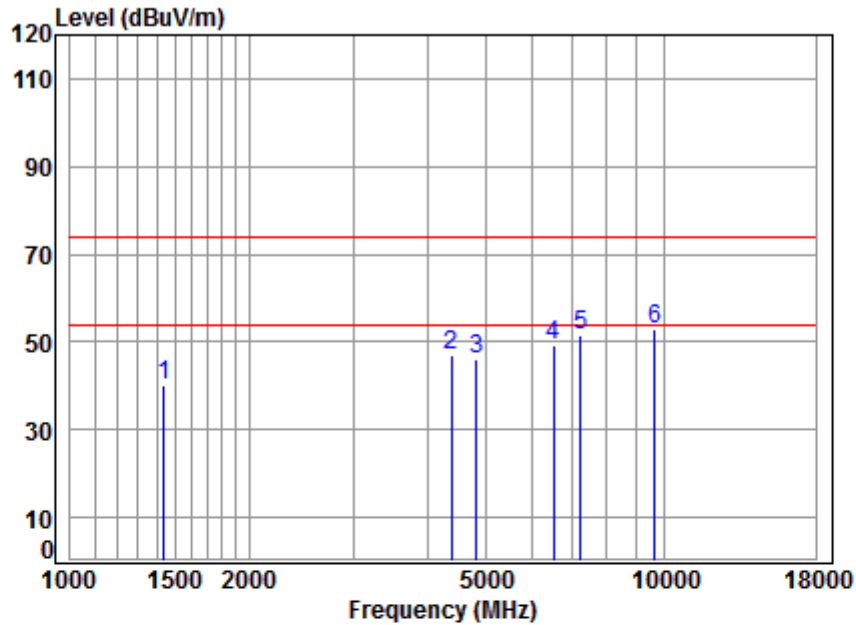
Condition: 3m VERTICAL  
 Job No. : 07067CR  
 Test mode: a

	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 pp	34.16	0.60	20.25	27.44	37.45	30.86	40.00	-9.14	
2	71.33	0.84	12.69	27.38	33.85	20.00	40.00	-20.00	
3	113.32	1.24	13.38	27.27	31.09	18.44	43.50	-25.06	
4	300.37	1.90	19.61	26.64	26.77	21.64	46.00	-24.36	
5	663.47	2.83	27.45	27.84	26.00	28.44	46.00	-17.56	
6	996.50	3.70	30.28	26.55	24.05	31.48	54.00	-22.52	



**Above 1GHz**

Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low

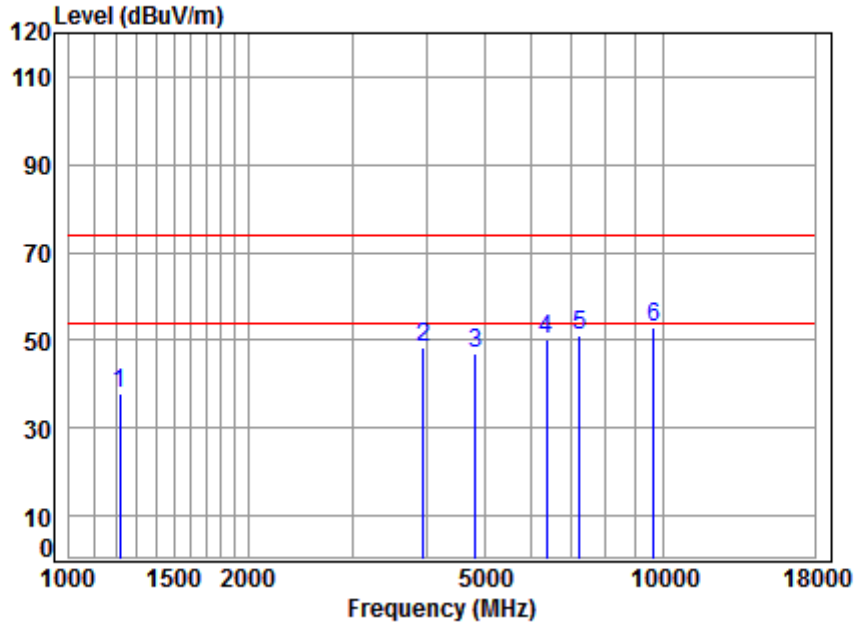


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11B

	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	1439.343	5.28	25.58	41.36	50.56	40.06	74.00	-33.94 peak
2	4379.699	7.43	33.39	42.40	48.39	46.81	74.00	-27.19 peak
3	4824.000	7.91	34.00	42.47	46.73	46.17	74.00	-27.83 peak
4	6507.536	11.52	35.60	41.21	43.59	49.50	74.00	-24.50 peak
5	7236.000	10.07	36.09	40.69	46.03	51.50	74.00	-22.50 peak
6 pp	9648.000	10.77	37.69	37.68	42.26	53.04	74.00	-20.96 peak



Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low

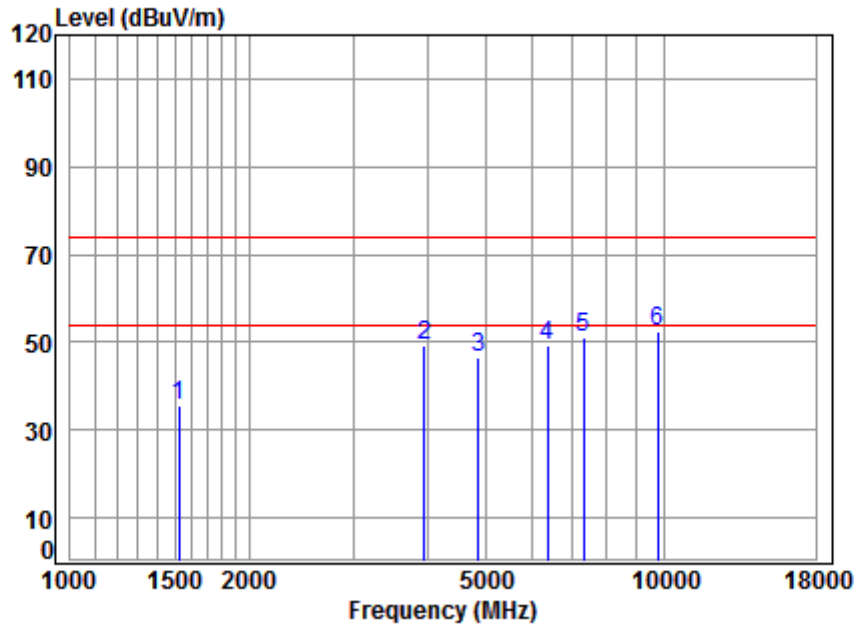


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11B

	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	1217.190	4.49	24.67	41.20	49.85	37.81	74.00	-36.19	peak
2	3946.885	6.93	32.60	42.31	51.19	48.41	74.00	-25.59	peak
3	4824.000	7.91	34.00	42.47	47.58	47.02	74.00	-26.98	peak
4	6377.195	11.31	35.48	41.31	44.78	50.26	74.00	-23.74	peak
5	7236.000	10.07	36.09	40.69	45.86	51.33	74.00	-22.67	peak
6 pp	9648.000	10.77	37.69	37.68	42.09	52.87	74.00	-21.13	peak



Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:middle



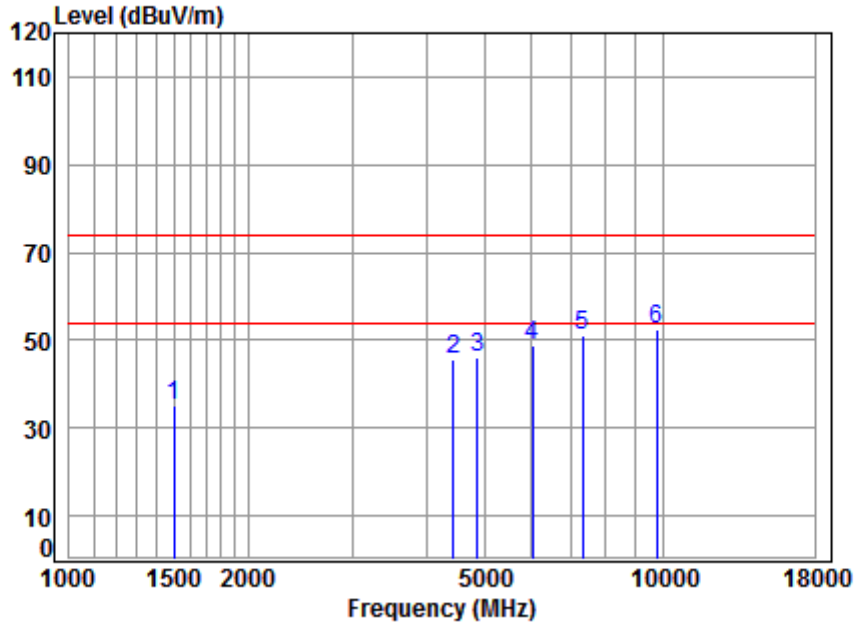
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1525.000	5.45	25.91	41.42	45.52	35.46	74.00	-38.54	peak
2	3946.885	6.93	32.60	42.31	52.13	49.35	74.00	-24.65	peak
3	4874.000	7.96	34.05	42.48	47.20	46.73	74.00	-27.27	peak
4	6377.195	11.31	35.48	41.31	44.02	49.50	74.00	-24.50	peak
5	7311.000	10.05	36.15	40.64	45.68	51.24	74.00	-22.76	peak
6 pp	9748.000	10.82	37.75	37.54	41.63	52.66	74.00	-21.34	peak





Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:middle



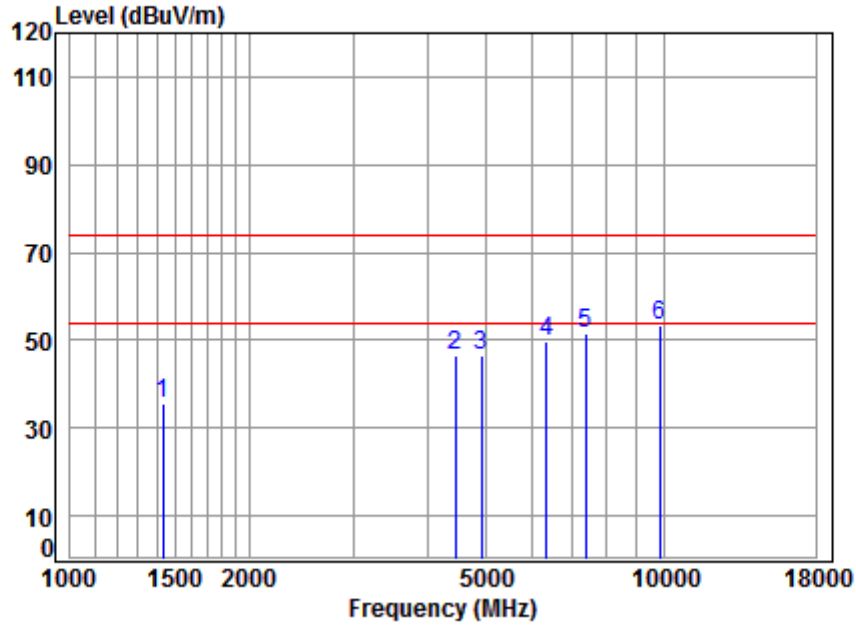
Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11B

	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	1498.781	5.48	25.80	41.41	45.07	34.94	74.00	-39.06	peak
2	4430.628	7.48	33.48	42.41	46.94	45.49	74.00	-28.51	peak
3	4874.000	7.96	34.05	42.48	46.51	46.04	74.00	-27.96	peak
4	6018.999	10.61	35.12	41.59	44.70	48.84	74.00	-25.16	peak
5	7311.000	10.05	36.15	40.64	45.37	50.93	74.00	-23.07	peak
6 pp	9748.000	10.82	37.75	37.54	41.52	52.55	74.00	-21.45	peak





Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High

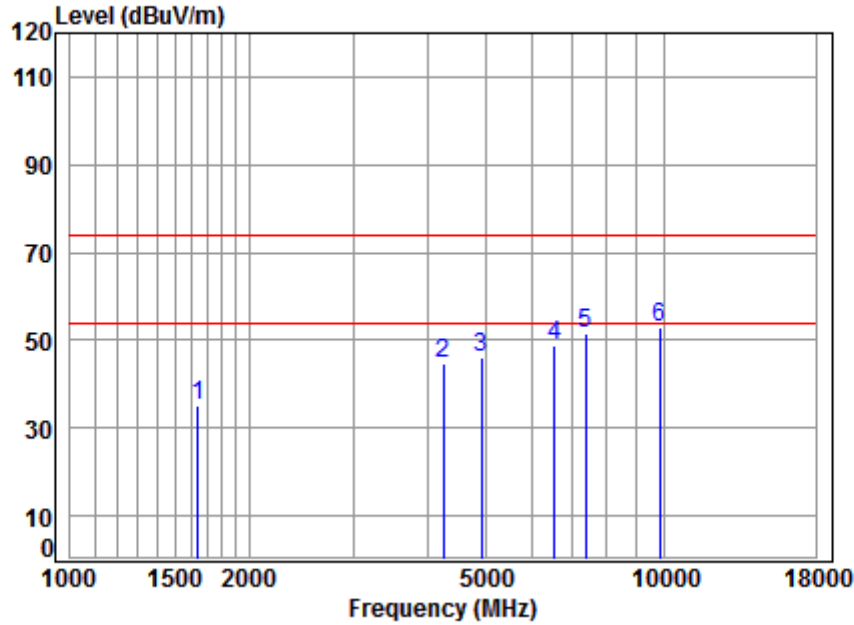


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11B

	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	1435.189	5.27	25.56	41.36	46.17	35.64	74.00	-38.36	peak
2	4456.315	7.51	33.53	42.41	47.71	46.34	74.00	-27.66	peak
3	4924.000	8.01	34.11	42.49	46.74	46.37	74.00	-27.63	peak
4	6340.436	11.24	35.44	41.34	44.33	49.67	74.00	-24.33	peak
5	7386.000	10.03	36.21	40.59	45.92	51.57	74.00	-22.43	peak
6 pp	9848.000	10.87	37.81	37.41	42.04	53.31	74.00	-20.69	peak



Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High

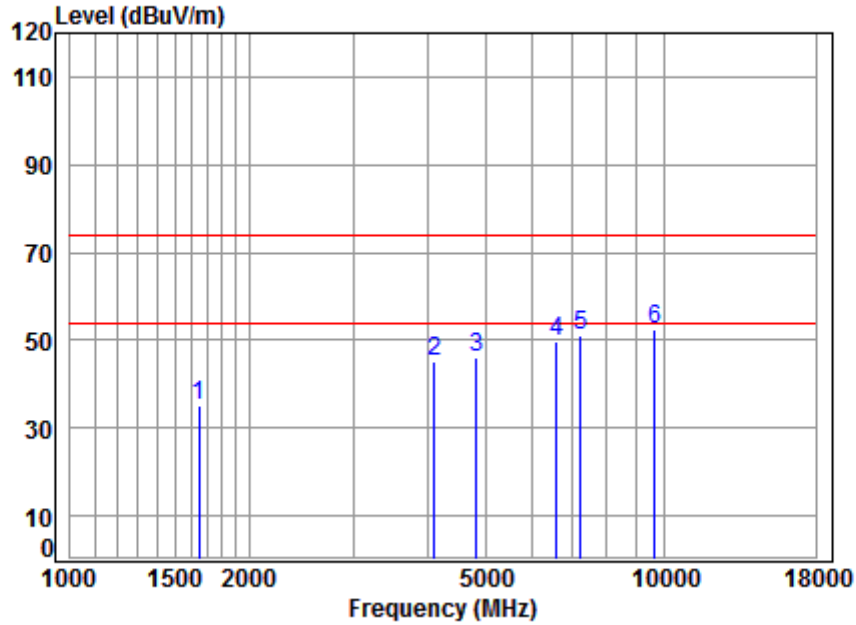


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11B

	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	1639.274	5.30	26.42	41.49	44.81	35.04	74.00	-38.96	peak
2	4254.921	7.28	33.17	42.37	46.60	44.68	74.00	-29.32	peak
3	4924.000	8.01	34.11	42.49	46.37	46.00	74.00	-28.00	peak
4	6545.263	11.41	35.63	41.18	43.19	49.05	74.00	-24.95	peak
5	7386.000	10.03	36.21	40.59	45.80	51.45	74.00	-22.55	peak
6 pp	9848.000	10.87	37.81	37.41	41.50	52.77	74.00	-21.23	peak



Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low

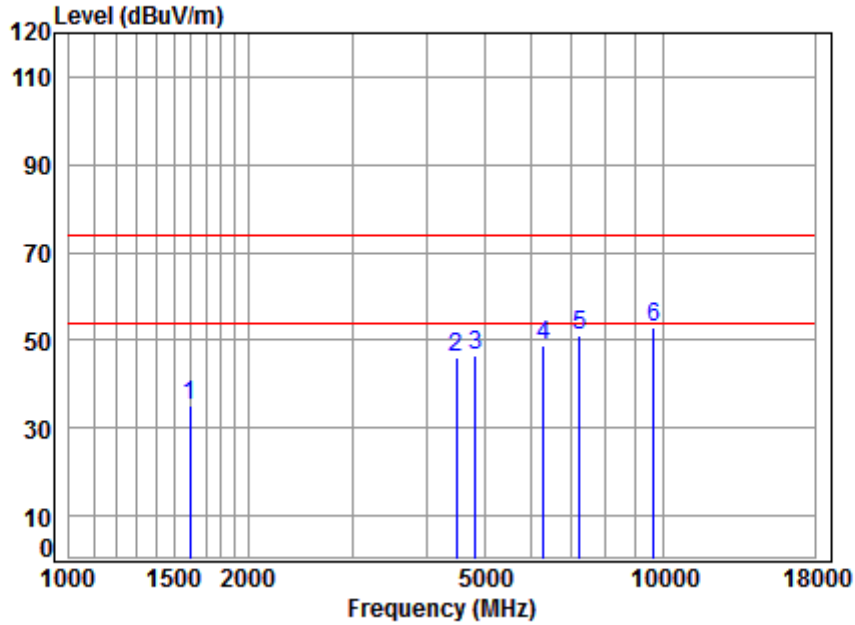


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11G

	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	1648.778	5.29	26.46	41.50	44.80	35.05	74.00	-38.95	peak
2	4109.872	7.11	32.91	42.35	47.71	45.38	74.00	-28.62	peak
3	4824.000	7.91	34.00	42.47	46.79	46.23	74.00	-27.77	peak
4	6602.265	11.24	35.66	41.14	43.83	49.59	74.00	-24.41	peak
5	7236.000	10.07	36.09	40.69	45.59	51.06	74.00	-22.94	peak
6 pp	9648.000	10.77	37.69	37.68	41.58	52.36	74.00	-21.64	peak



Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low

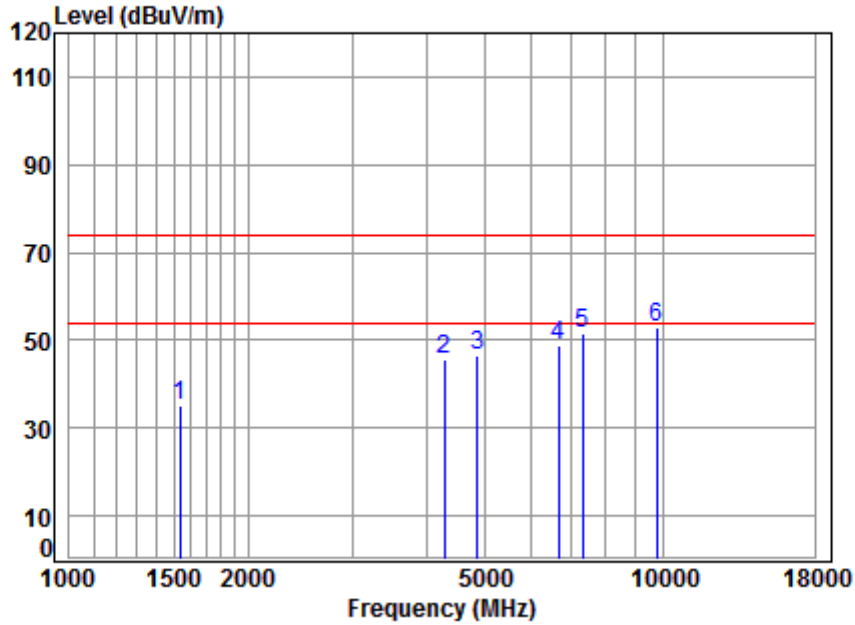


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11G

	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	1597.181	5.35	26.24	41.47	44.93	35.05	74.00	-38.95	peak
2	4482.150	7.54	33.57	42.41	47.55	46.25	74.00	-27.75	peak
3	4824.000	7.91	34.00	42.47	47.13	46.57	74.00	-27.43	peak
4	6303.890	11.17	35.41	41.37	43.67	48.88	74.00	-25.12	peak
5	7236.000	10.07	36.09	40.69	45.70	51.17	74.00	-22.83	peak
6 pp	9648.000	10.77	37.69	37.68	42.28	53.06	74.00	-20.94	peak



Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:middle

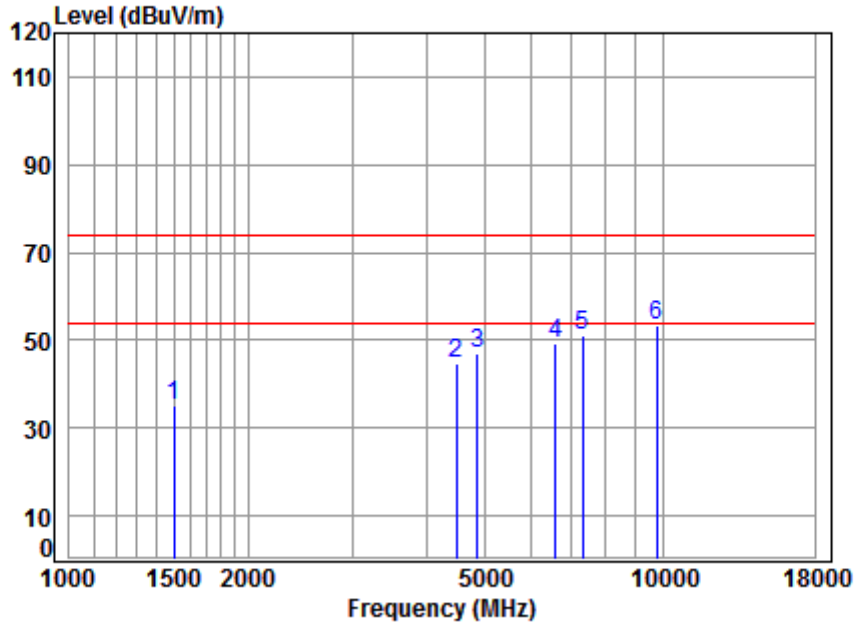


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11G

	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	1538.281	5.43	25.98	41.43	45.29	35.27	74.00	-38.73	peak
2	4291.977	7.33	33.24	42.38	47.30	45.49	74.00	-28.51	peak
3	4874.000	7.96	34.05	42.48	47.07	46.60	74.00	-27.40	peak
4	6679.040	11.02	35.71	41.08	43.09	48.74	74.00	-25.26	peak
5	7311.000	10.05	36.15	40.64	46.08	51.64	74.00	-22.36	peak
6 pp	9748.000	10.82	37.75	37.54	41.72	52.75	74.00	-21.25	peak



Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:middle

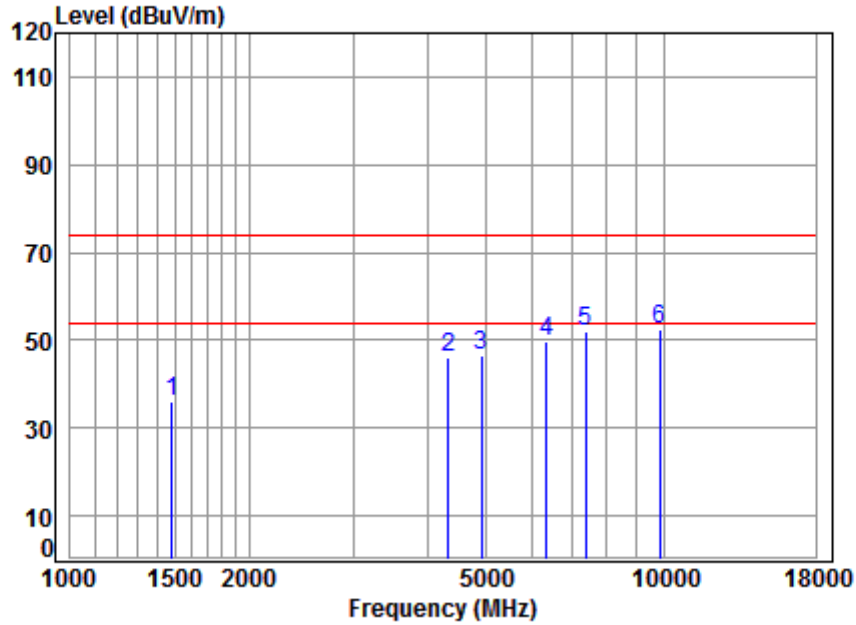


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11G

	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	1498.781	5.48	25.80	41.41	45.13	35.00	74.00	-39.00	peak
2	4495.125	7.55	33.59	42.42	46.13	44.85	74.00	-29.15	peak
3	4874.000	7.96	34.05	42.48	47.37	46.90	74.00	-27.10	peak
4	6602.265	11.24	35.66	41.14	43.46	49.22	74.00	-24.78	peak
5	7311.000	10.05	36.15	40.64	45.51	51.07	74.00	-22.93	peak
6 pp	9748.000	10.82	37.75	37.54	42.25	53.28	74.00	-20.72	peak



Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High

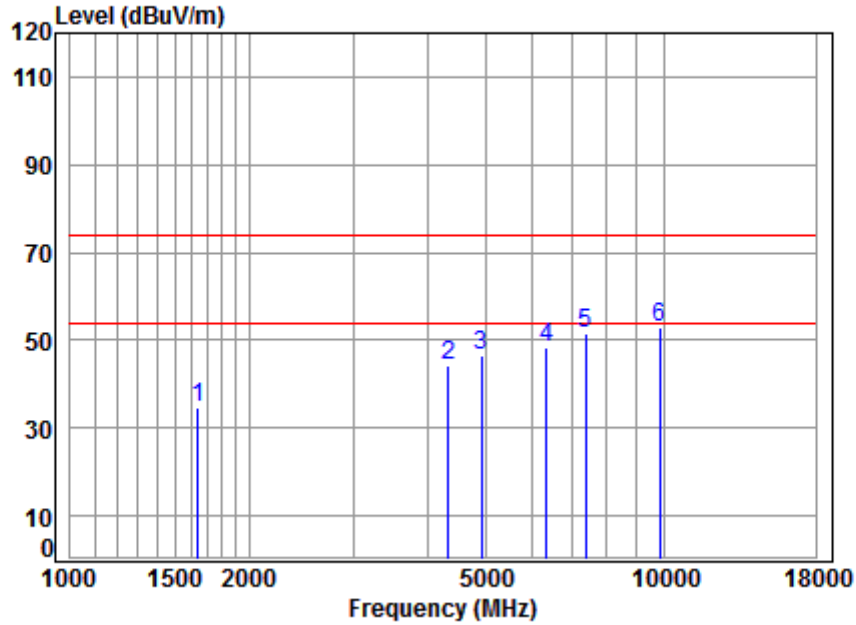


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1481.553	5.42	25.73	41.39	46.31	36.07	74.00	-37.93	peak
2	4341.886	7.38	33.33	42.39	47.67	45.99	74.00	-28.01	peak
3	4924.000	8.02	34.12	42.49	46.92	46.57	74.00	-27.43	Peak
4	6340.436	11.24	35.44	41.34	44.42	49.76	74.00	-24.24	peak
5	7386.000	10.03	36.21	40.59	46.21	51.86	74.00	-22.14	peak
6 pp	9848.000	10.87	37.81	37.41	41.10	52.37	74.00	-21.63	peak



Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



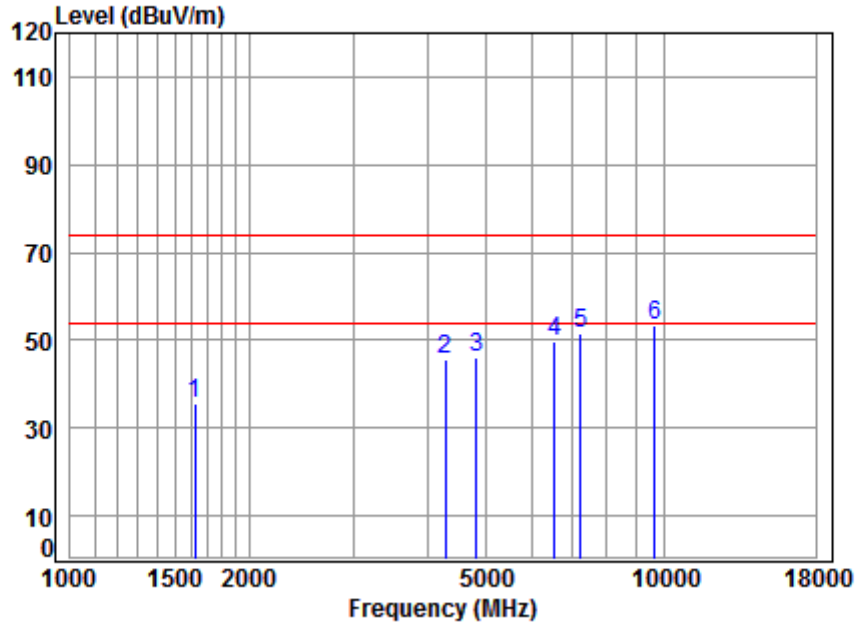
Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11G

	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	1644.019	5.30	26.44	41.50	44.46	34.70	74.00	-39.30	peak
2	4341.886	7.38	33.33	42.39	46.13	44.45	74.00	-29.55	peak
3	4924.000	8.01	34.11	42.49	47.11	46.74	74.00	-27.26	peak
4	6340.436	11.24	35.44	41.34	43.15	48.49	74.00	-25.51	peak
5	7386.000	10.03	36.21	40.59	45.72	51.37	74.00	-22.63	peak
6 pp	9848.000	10.87	37.81	37.41	41.55	52.82	74.00	-21.18	peak





Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low

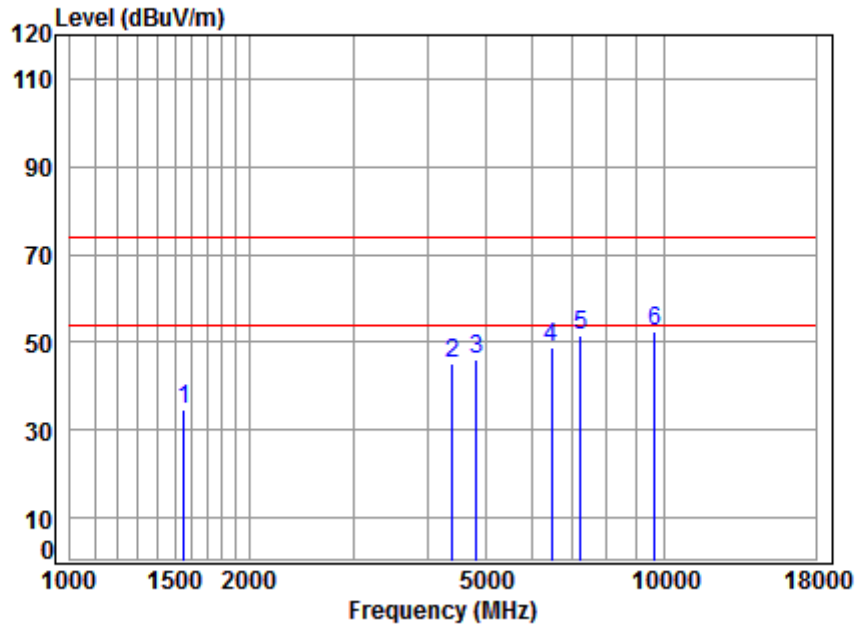


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11N 20

	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	1620.431	5.32	26.34	41.48	45.39	35.57	74.00	-38.43	peak
2	4291.977	7.33	33.24	42.38	47.55	45.74	74.00	-28.26	peak
3	4824.000	7.91	34.00	42.47	46.78	46.22	74.00	-27.78	peak
4	6545.263	11.41	35.63	41.18	43.92	49.78	74.00	-24.22	peak
5	7236.000	10.07	36.09	40.69	45.98	51.45	74.00	-22.55	peak
6 pp	9648.000	10.77	37.69	37.68	42.46	53.24	74.00	-20.76	peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low

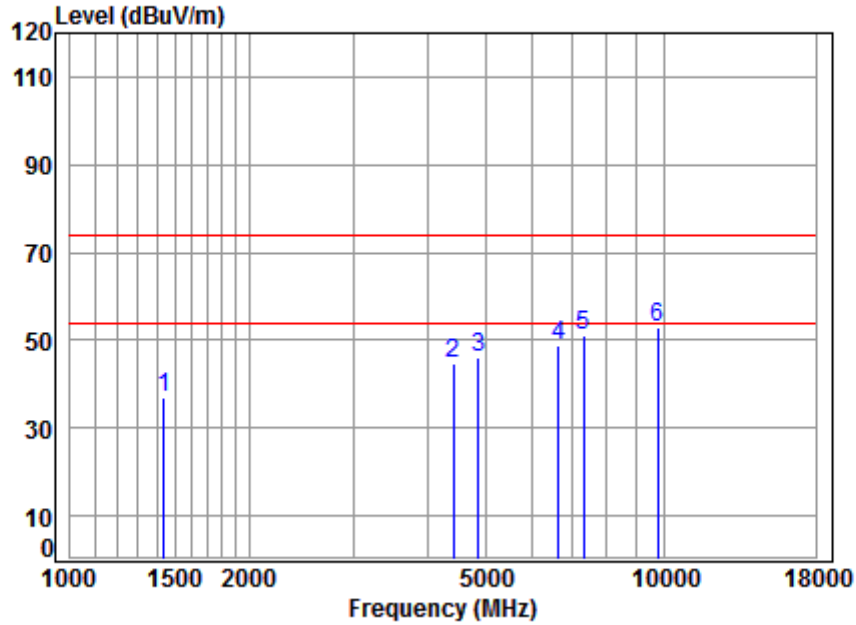


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2412 TX SE  
Note : 2.4G WiFi 11N 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	5.41	26.06	41.44	44.81	34.84	74.00	-39.16	peak
2	4405.090	7.46	33.44	42.40	46.59	45.09	74.00	-28.91	peak
3	4824.000	7.91	34.00	42.47	46.87	46.31	74.00	-27.69	peak
4	6470.026	11.48	35.57	41.24	42.93	48.74	74.00	-25.26	peak
5	7236.000	10.07	36.09	40.69	46.16	51.63	74.00	-22.37	peak
6 pp	9648.000	10.77	37.69	37.68	41.66	52.44	74.00	-21.56	peak



Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle

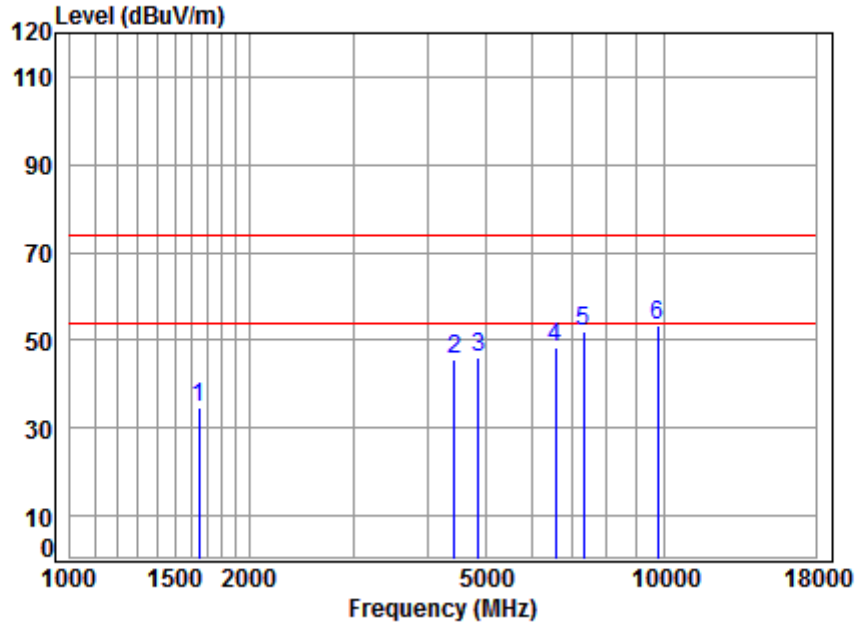


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11N 20

	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	1439.343	5.28	25.58	41.36	47.42	36.92	74.00	-37.08	peak
2	4417.841	7.47	33.46	42.40	46.33	44.86	74.00	-29.14	peak
3	4874.000	7.96	34.05	42.48	46.69	46.22	74.00	-27.78	Peak
4	6640.542	11.13	35.69	41.11	43.08	48.79	74.00	-25.21	peak
5	7311.000	10.05	36.15	40.64	45.71	51.27	74.00	-22.73	peak
6 pp	9748.000	10.82	37.75	37.54	41.69	52.72	74.00	-21.28	peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle

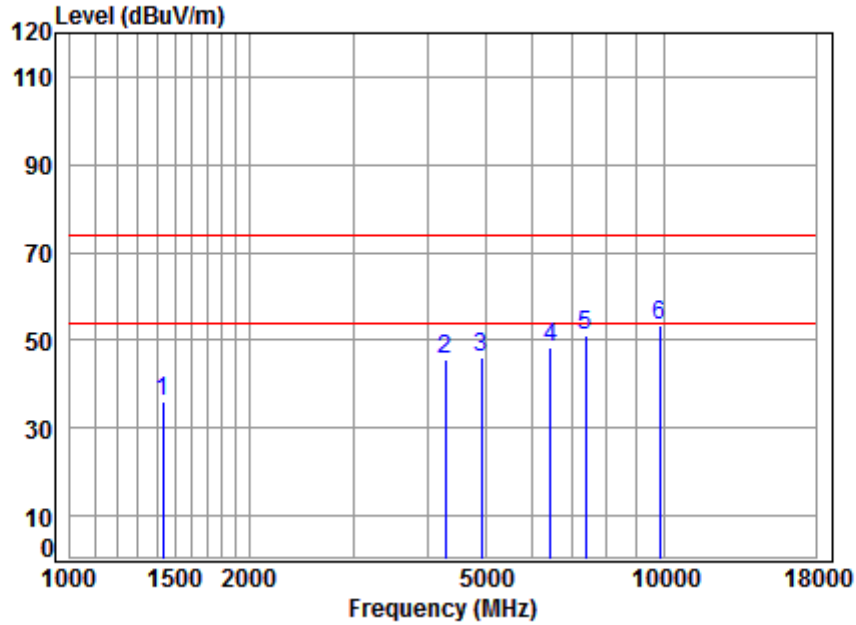


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11N 20

	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	1648.778	5.29	26.46	41.50	44.45	34.70	74.00	-39.30	peak
2	4430.628	7.48	33.48	42.41	47.28	45.83	74.00	-28.17	peak
3	4874.000	7.96	34.05	42.48	46.70	46.23	74.00	-27.77	peak
4	6564.209	11.35	35.64	41.17	42.75	48.57	74.00	-25.43	peak
5	7311.000	10.05	36.15	40.64	46.26	51.82	74.00	-22.18	peak
6 pp	9748.000	10.82	37.75	37.54	42.14	53.17	74.00	-20.83	peak



Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High

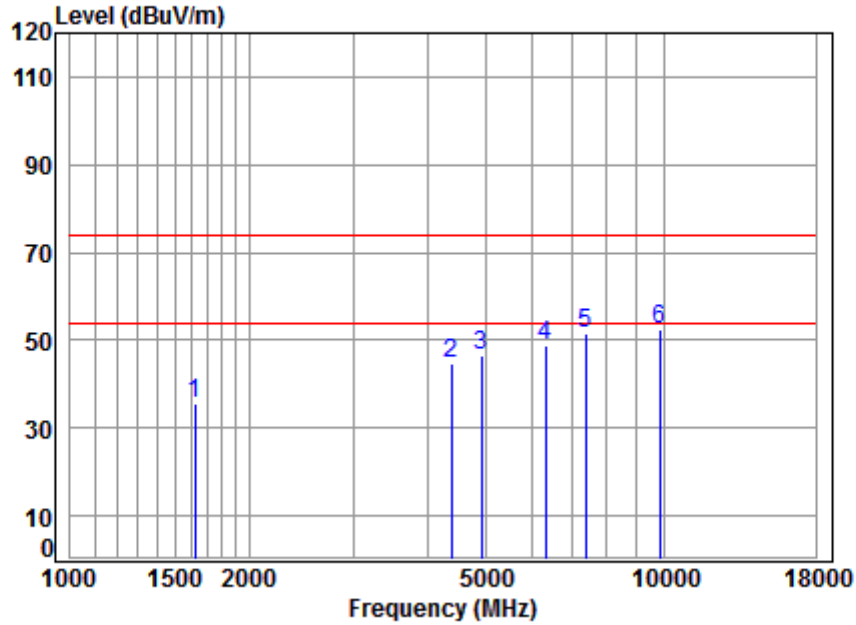


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11N 20

	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	1435.189	5.27	25.56	41.36	46.51	35.98	74.00	-38.02 peak
2	4279.589	7.31	33.22	42.38	47.45	45.60	74.00	-28.40 peak
3	4924.000	8.01	34.11	42.49	46.56	46.19	74.00	-27.81 peak
4	6451.353	11.45	35.55	41.25	42.80	48.55	74.00	-25.45 peak
5	7386.000	10.03	36.21	40.59	45.51	51.16	74.00	-22.84 peak
6 pp	9848.000	10.87	37.81	37.41	41.93	53.20	74.00	-20.80 peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High

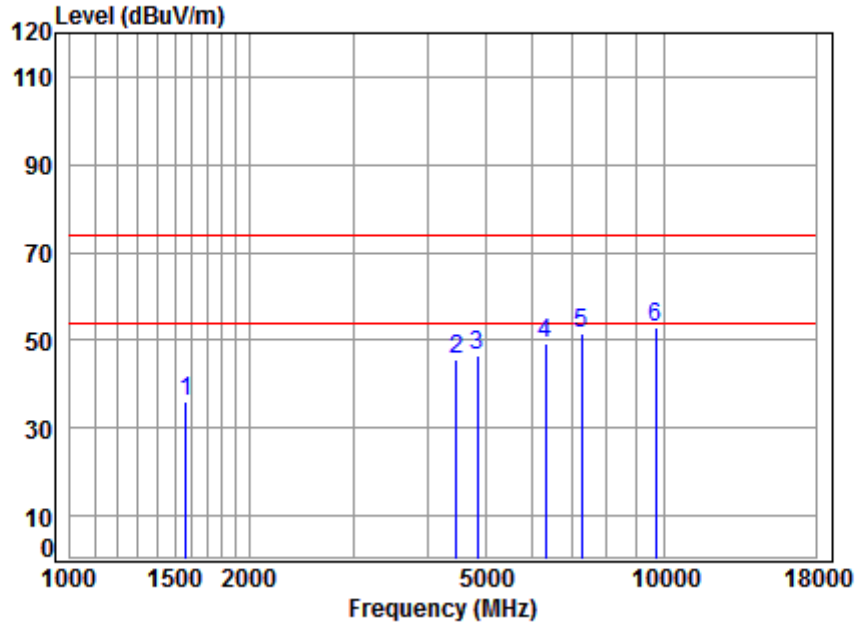


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2462 TX SE  
Note : 2.4G WiFi 11N 20

	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	1620.431	5.32	26.34	41.48	45.40	35.58	74.00	-38.42	peak
2	4392.376	7.44	33.42	42.40	46.48	44.94	74.00	-29.06	peak
3	4924.000	8.01	34.11	42.49	47.11	46.74	74.00	-27.26	peak
4	6322.136	11.20	35.43	41.35	43.61	48.89	74.00	-25.11	peak
5	7386.000	10.03	36.21	40.59	45.78	51.43	74.00	-22.57	peak
6 pp	9848.000	10.87	37.81	37.41	41.39	52.66	74.00	-21.34	peak



Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low

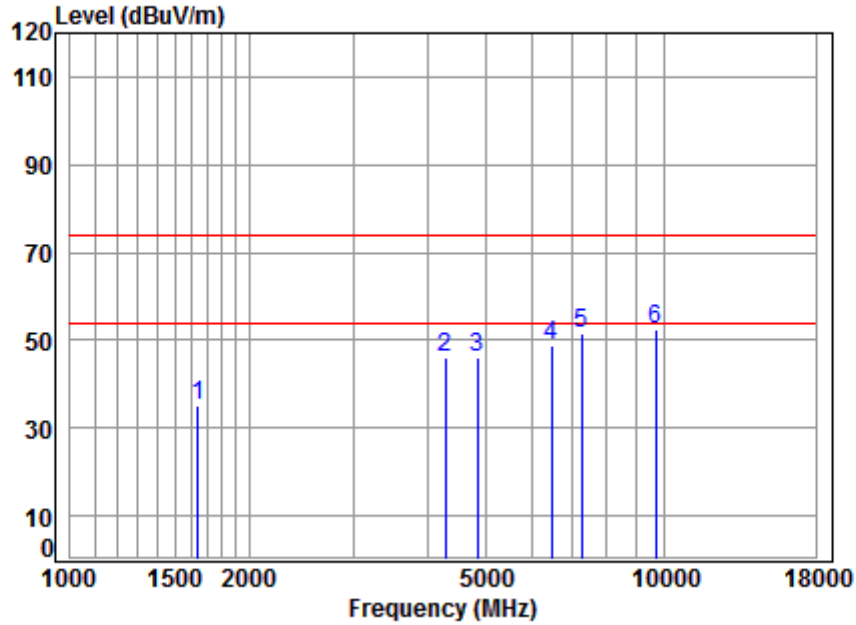


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2422 TX SE  
Note : 2.4G WiFi 11N 40

	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	1565.191	5.39	26.10	41.45	46.19	36.23	74.00	-37.77	peak
2	4469.214	7.53	33.55	42.41	47.13	45.80	74.00	-28.20	peak
3	4844.000	7.93	34.02	42.48	47.22	46.69	74.00	-27.31	peak
4	6322.136	11.20	35.43	41.35	43.90	49.18	74.00	-24.82	peak
5	7266.000	10.06	36.12	40.67	45.94	51.45	74.00	-22.55	peak
6 pp	9688.000	10.79	37.71	37.63	42.05	52.92	74.00	-21.08	peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



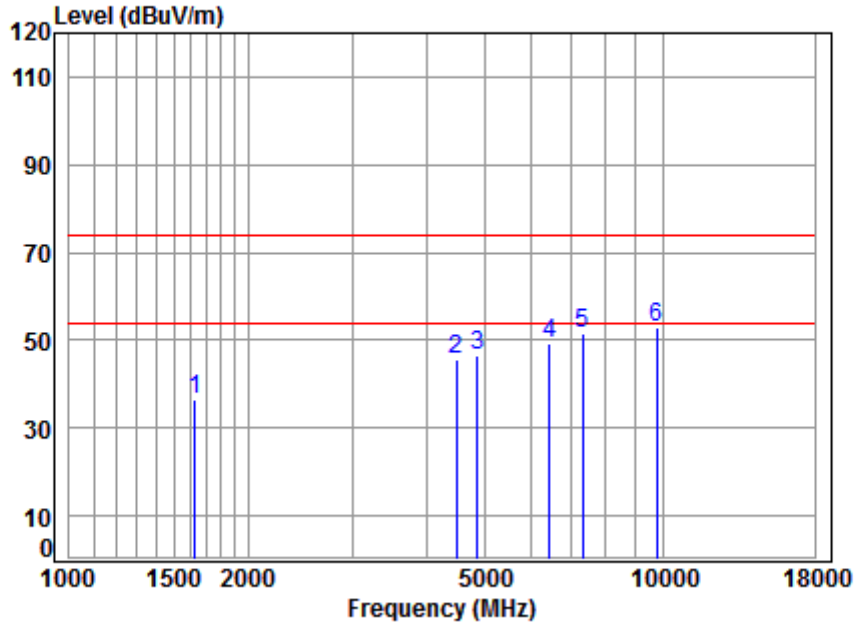
Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2422 TX SE  
Note : 2.4G WiFi 11N 40

	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	1644.019	5.30	26.44	41.50	45.01	35.25	74.00	-38.75	peak
2	4291.977	7.33	33.24	42.38	47.76	45.95	74.00	-28.05	peak
3	4844.000	7.93	34.02	42.48	46.51	45.98	74.00	-28.02	peak
4	6470.026	11.48	35.57	41.24	42.92	48.73	74.00	-25.27	peak
5	7266.000	10.06	36.12	40.67	46.17	51.68	74.00	-22.32	peak
6 pp	9688.000	10.79	37.71	37.63	41.74	52.61	74.00	-21.39	peak





Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:middle

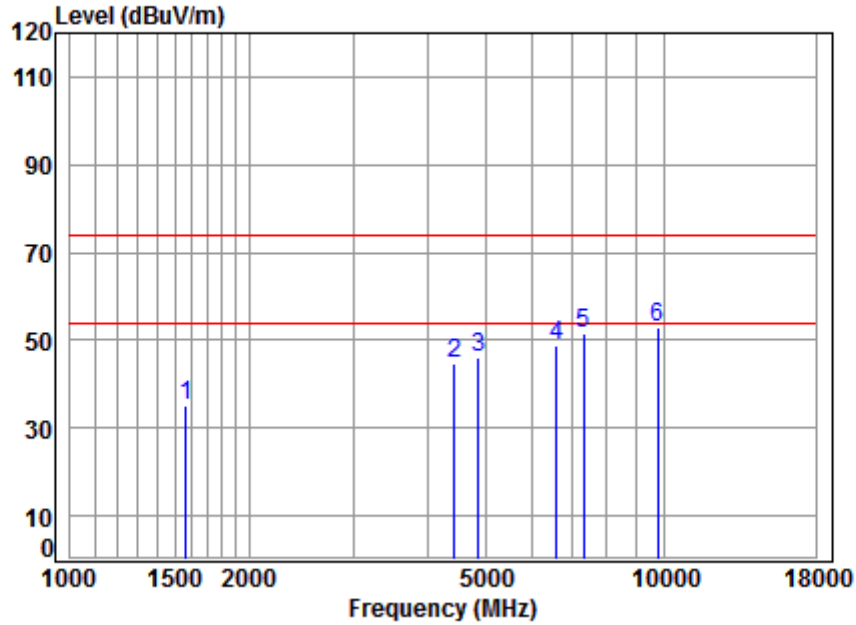


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11N 40

	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	1629.825	5.31	26.38	41.49	46.33	36.53	74.00	-37.47	peak
2	4482.150	7.54	33.57	42.41	46.80	45.50	74.00	-28.50	peak
3	4874.000	7.96	34.05	42.48	47.01	46.54	74.00	-27.46	peak
4	6451.353	11.45	35.55	41.25	43.35	49.10	74.00	-24.90	peak
5	7311.000	10.05	36.15	40.64	45.81	51.37	74.00	-22.63	peak
6 pp	9748.000	10.82	37.75	37.54	41.96	52.99	74.00	-21.01	peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:middle

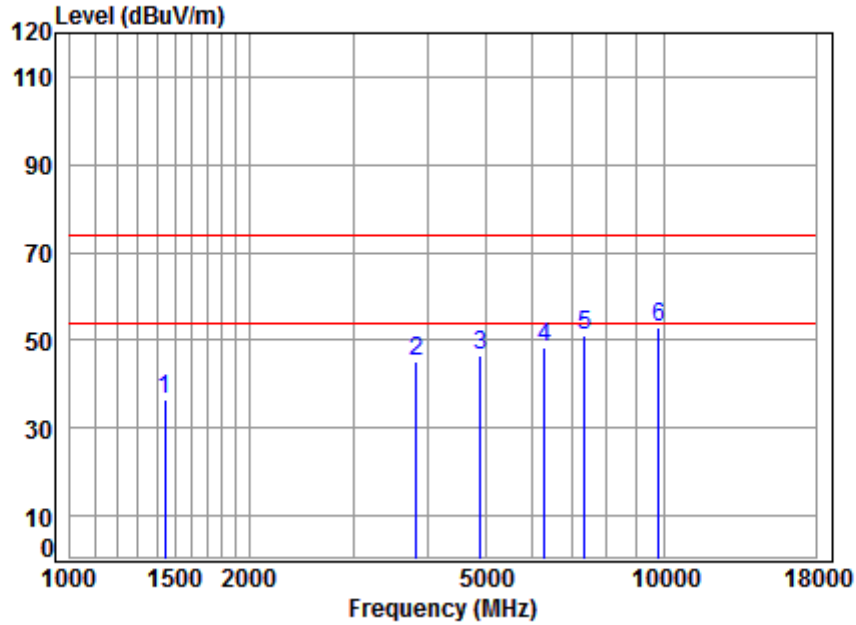


Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2437 TX SE  
Note : 2.4G WiFi 11N 40

	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	1565.191	5.39	26.10	41.45	44.87	34.91	74.00	-39.09	peak
2	4430.628	7.48	33.48	42.41	46.35	44.90	74.00	-29.10	peak
3	4874.000	7.96	34.05	42.48	46.58	46.11	74.00	-27.89	peak
4	6602.265	11.24	35.66	41.14	43.05	48.81	74.00	-25.19	peak
5	7311.000	10.05	36.15	40.64	46.14	51.70	74.00	-22.30	peak
6 pp	9748.000	10.82	37.75	37.54	41.78	52.81	74.00	-21.19	peak



Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High

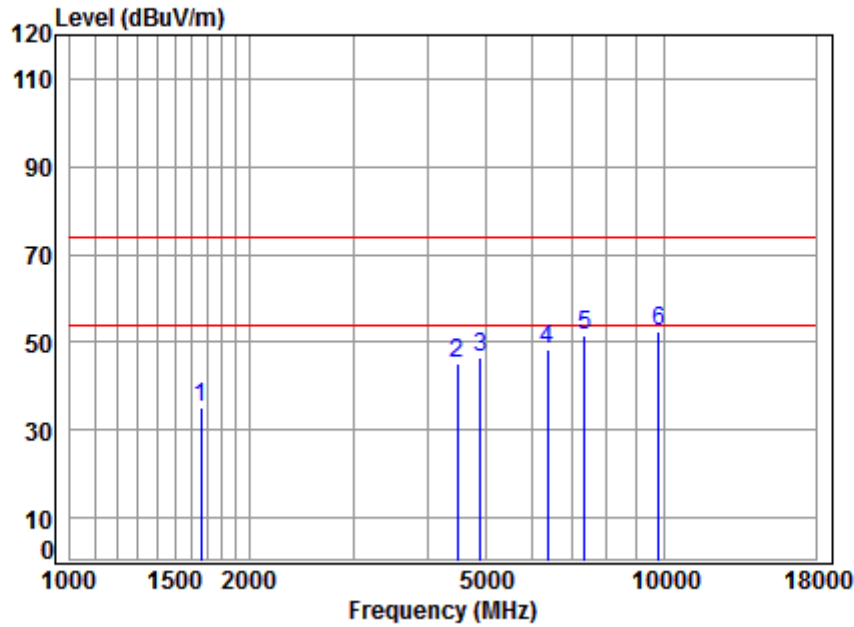


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 07066CR/07067CR  
Mode : 2452 TX SE  
Note : 2.4G WiFi 11N 40

	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	5.30	25.59	41.37	47.06	36.58	74.00	-37.42	peak
2	6.82	32.38	42.29	48.09	45.00	74.00	-29.00	peak
3	7.99	34.09	42.48	46.95	46.55	74.00	-27.45	peak
4	11.17	35.41	41.37	43.29	48.50	74.00	-25.50	peak
5	10.04	36.19	40.61	45.67	51.29	74.00	-22.71	peak
6 pp	10.85	37.79	37.46	41.72	52.90	74.00	-21.10	peak



Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 07066CR/07067CR  
Mode : 2452 TX SE  
Note : 2.4G WiFi 11N 40

	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	5.28	26.50	41.51	44.98	35.25	74.00	-38.75	peak
2	7.55	33.59	42.42	46.64	45.36	74.00	-28.64	peak
3	7.99	34.09	42.48	46.96	46.56	74.00	-27.44	peak
4	11.31	35.48	41.31	42.79	48.27	74.00	-25.73	peak
5	10.04	36.19	40.61	45.86	51.48	74.00	-22.52	peak
6 pp	10.85	37.79	37.46	41.23	52.41	74.00	-21.59	peak



## **7 Photographs**

### **7.1 EUT Constructional Details (EUT Photos)**

Please refer to external and internal photos for details.

- End of the Report -