

## TEST REPORT

**Applicant:** Shenzhen Golden Vision Technology Development Co., Ltd

**Address of Applicant:** No.6 Bao Fu Road, Bao Lai industrial Park, Shang Mu Gu Villiage, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province, 518000, China

**Manufacturer:** Shenzhen Golden Vision Technology Development Co., Ltd

**Address of Manufacturer:** No.6 Bao Fu Road, Bao Lai industrial Park, Shang Mu Gu Villiage, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province, 518000, China

**Equipment Under Test (EUT)**

Product Name: Battery Camera

Model No.: L1

Add. Model No.: D1, D2, D3, D4, L2, L3, L4, W1

Trade Mark: N/A

**FCC ID:** 2APD7-L1

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 2022-03-25

**Date of Test:** 2022-03-25 to 2022-04-08

**Date of report issued:** 2022-04-15

**Test Result :** PASS \*

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

Authorized Signature:



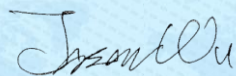
**Robinson Luo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	2022-04-15	Original

Prepared By:

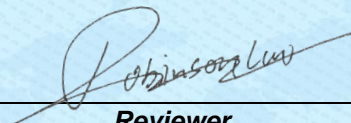


Date:

2022-04-15

Project Engineer

Check By:



Date:

2022-04-15

Reviewer

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## 4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	N/A
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

*Remark: Test according to ANSI C63.10:2013 and RSS-Gen*

*Pass: The EUT complies with the essential requirements in the standard.*

### Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radio Frequency	/	$1 \times 10^{-7}$	(1)
Duty Cycle	/	0.37%	(1)
Occupied Bandwidth	/	2.8dB	(1)
RF Conducted Power	/	0.75dB	(1)
RF Power Density	/	3dB	(1)
Conducted Spurious Emissions	/	2.58dB	(1)
Radiated Emission	9kHz-30MHz	3.1dB	(1)
	30MHz-200MHz	3.8039dB	(1)
	200MHz-1GHz	3.9679dB	(1)
	1GHz-18GHz	4.29dB	(1)
	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	Battery Camera
Model No.:	L1
Add. Model No.:	D1, D2, D3, D4, L2, L3, L4, W1
Serial No.:	N/A
Hardware Version:	1.0
Software Version:	1.0
Test sample(s) ID:	GTSL202203000366-1
Sample(s) Status:	Engineer sample
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20): 11 Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC Antenna
Antenna gain:	3.0dBi
Power supply:	5Vdc 1A

**Note:**

Models L1 and models D1, D2, D3, D4, L2, L3, L4, W1 the difference is only to distinguish different sales areas of different customers, the model name is different, and the products are exactly the same.

Operation Frequency each of channel							
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	X	

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:

Test channel	Frequency (MHz)
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

## 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle &gt;98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:			
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.			
Mode	802.11b	802.11g	802.11n(HT20)
Data rate	1Mbps	6Mbps	6.5Mbps

## 5.3 Description of Support Units

None.
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## 5.4 Deviation from Standards

None.
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## 5.5 Abnormalities from Standard Conditions

None.
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## 5.6 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC—Registration No.: 381383</b> Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.</li> <li>● <b>IC —Registration No.: 9079A</b> CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing</li> <li>● <b>NVLAP (LAB CODE:600179-0)</b> Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).</li> </ul>
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## 5.7 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

## 5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022



RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 24 2021	June. 23 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022

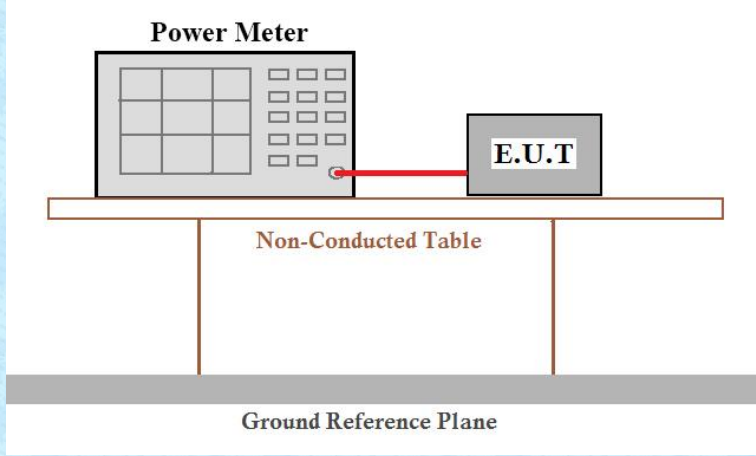
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><b>15.203 requirement:</b></p> <p>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.</p> <p><b>15.247(c) (1)(i) requirement:</b></p> <p>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<b>EUT Antenna:</b>	
<p><i>The antennas are FPC antenna, the best case gain of the antennas are 3.0dBi, reference to the appendix III for details</i></p>	

## 7.2 Conducted Peak Output Power

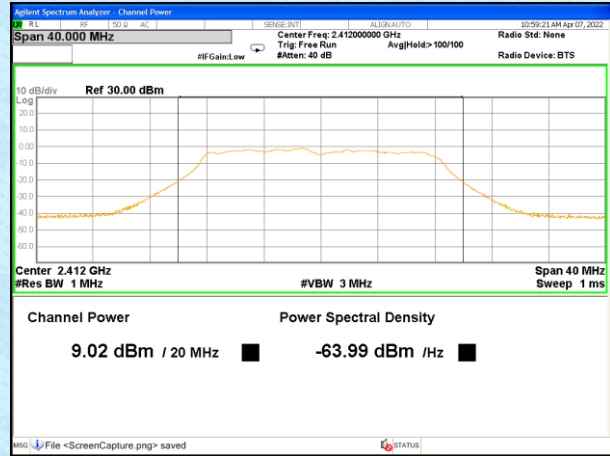
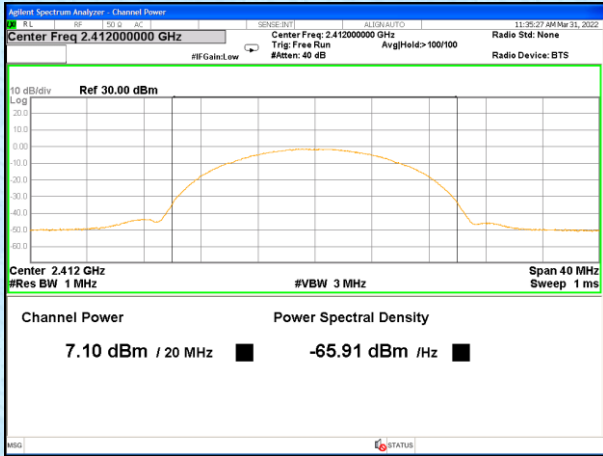
Test Requirement :	FCC Part15 C Section 15.247 (b)(3)
Test Method :	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

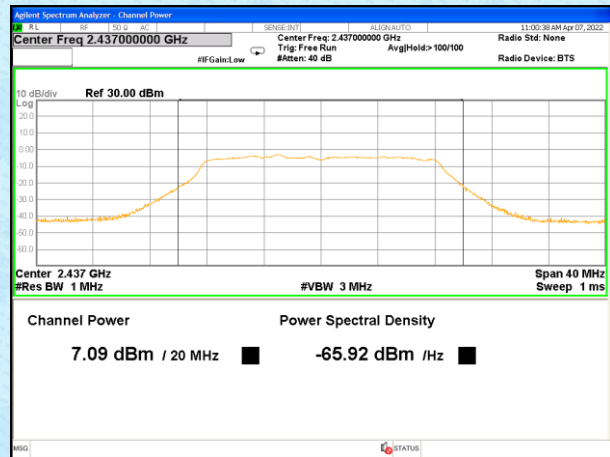
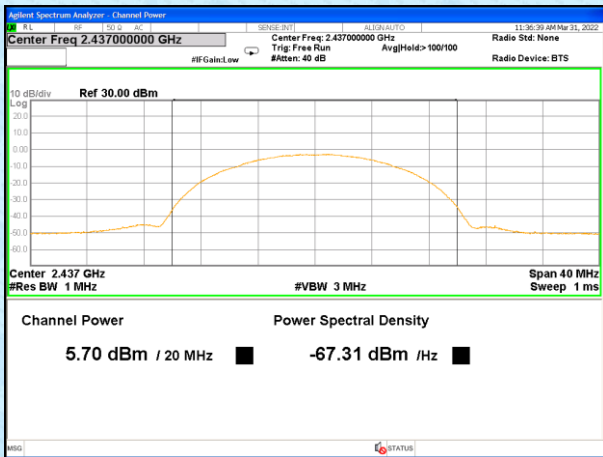
Test CH	Peak Output Power (dBm)			Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	7.10	9.02	8.88	30.00	Pass
Middle	5.70	7.09	6.82		
Highest	5.69	7.28	7.13		

Test plot as follows:

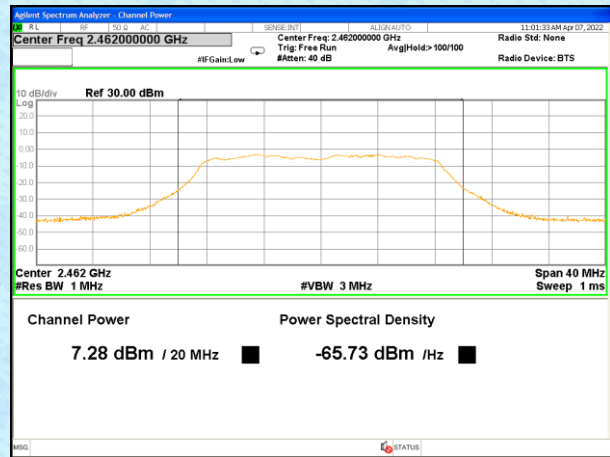
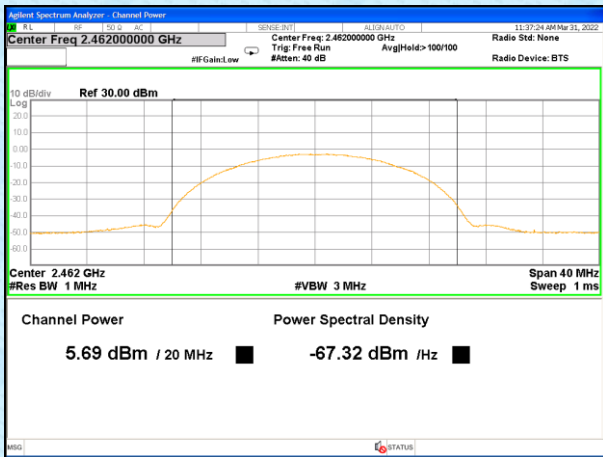
802.11b	802.11g
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Lowest channel

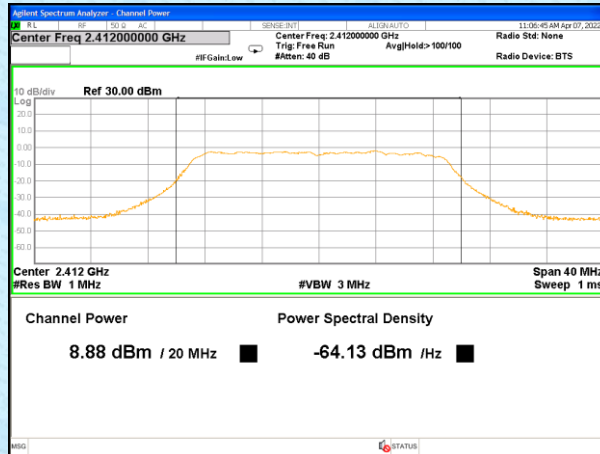


Middle channel

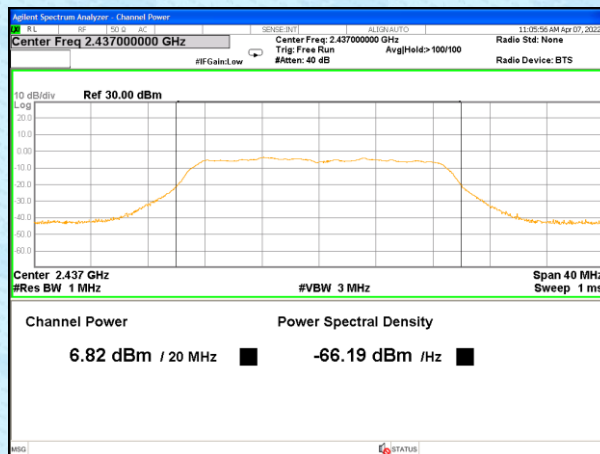


Highest channel

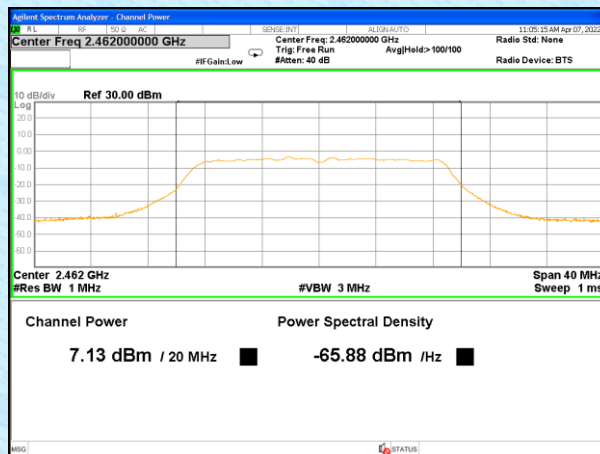
802.11n(HT20)



Lowest channel

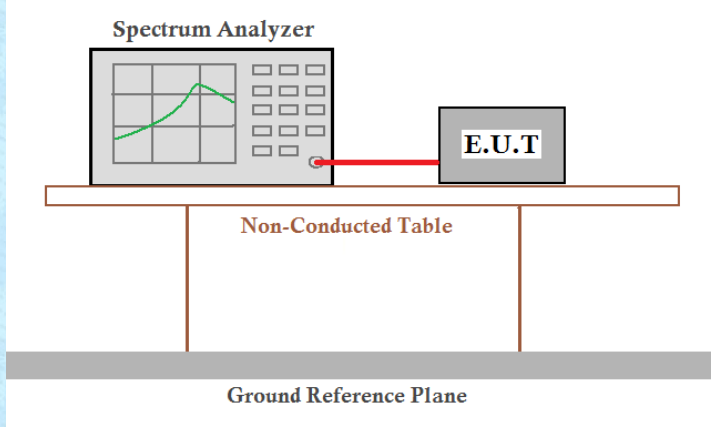


Middle channel



Highest channel

### 7.3 Channel Bandwidth & 99% Occupy Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

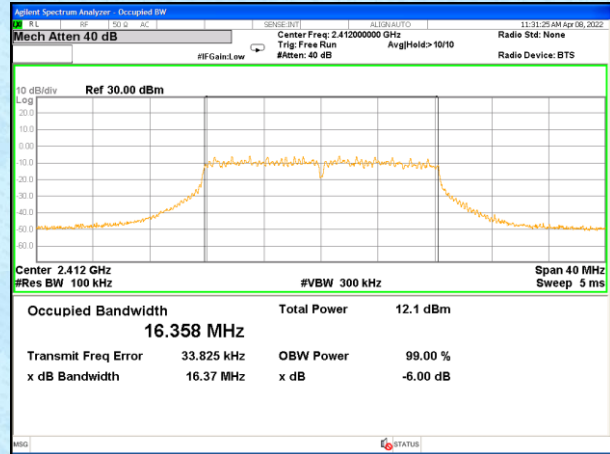
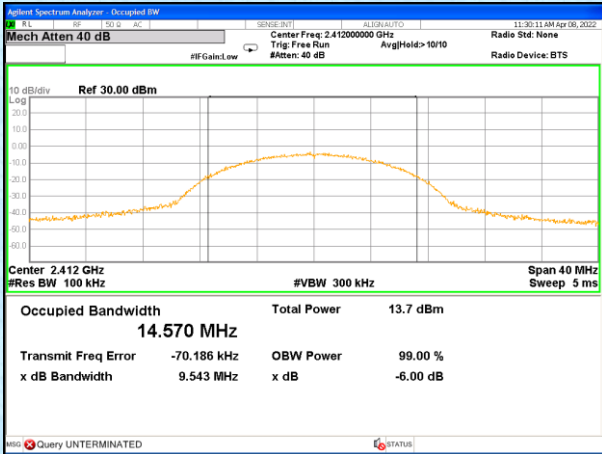
## Measurement Data

Test CH	Channel Bandwidth (MHz)			Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	9.543	16.370	17.160	>500	Pass
Middle	9.318	16.410	17.640		
Highest	10.430	16.440	17.260		

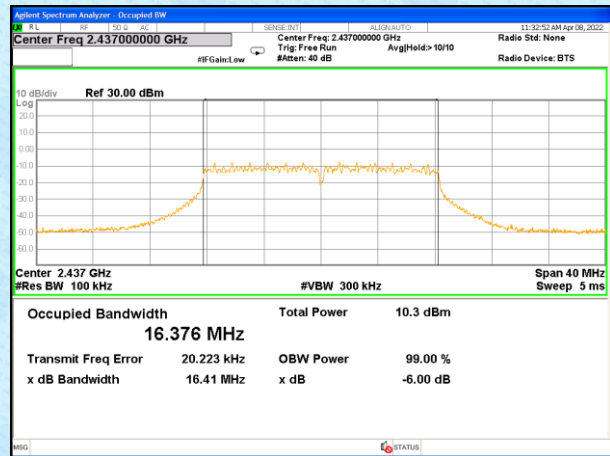
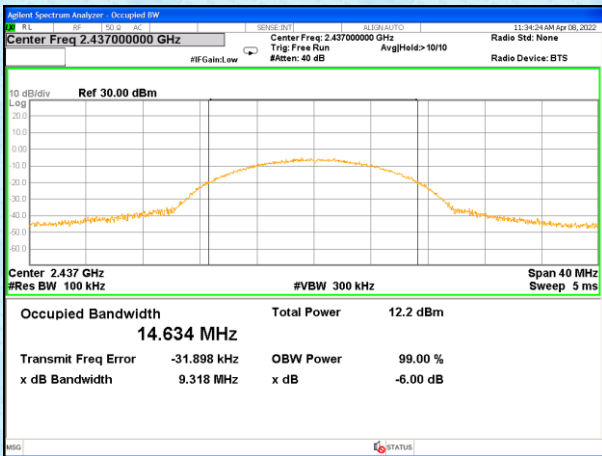
Test CH	99% Occupy Bandwidth (MHz)			Result
	802.11b	802.11g	802.11n(HT20)	
Lowest	14.570	16.358	17.565	Pass
Middle	14.634	16.376	17.599	
Highest	14.543	16.398	17.581	

Test plot as follows:

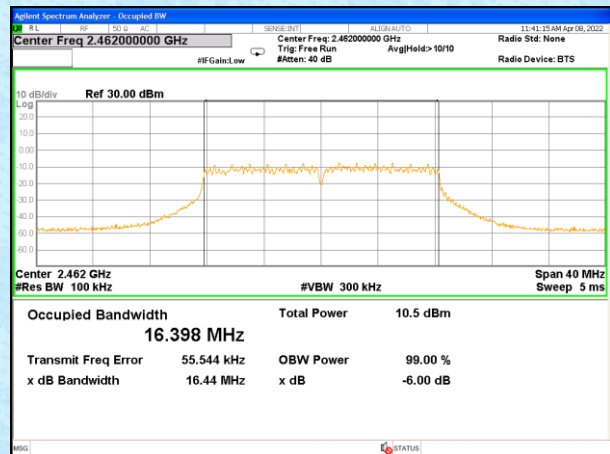
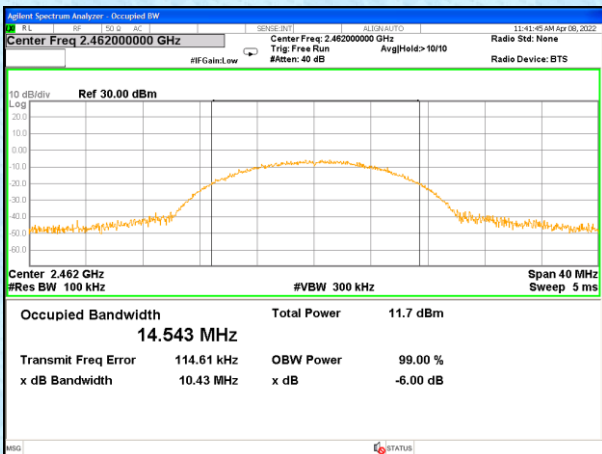
802.11b	802.11g
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Lowest channel



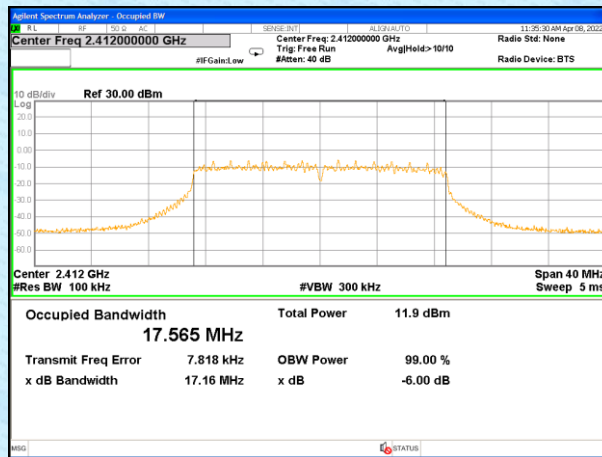
Middle channel



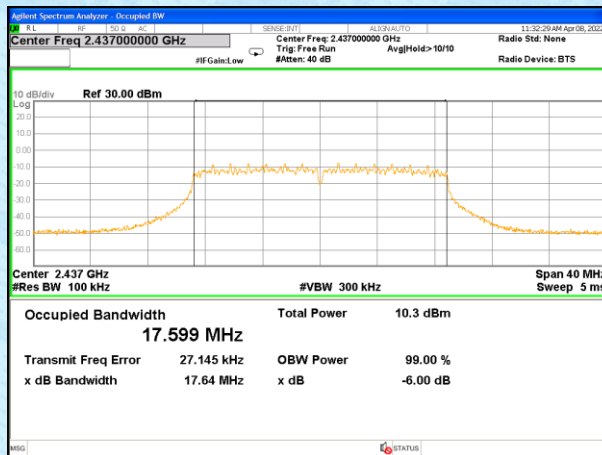
Highest channel



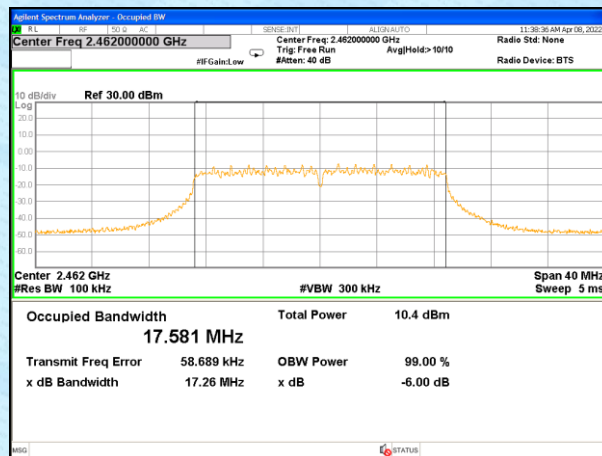
802.11n(HT20)



Lowest channel

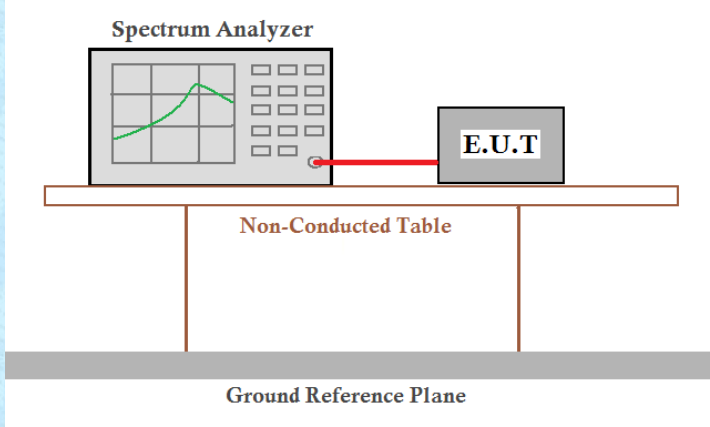


Middle channel



Highest channel

## 7.4 Power Spectral Density

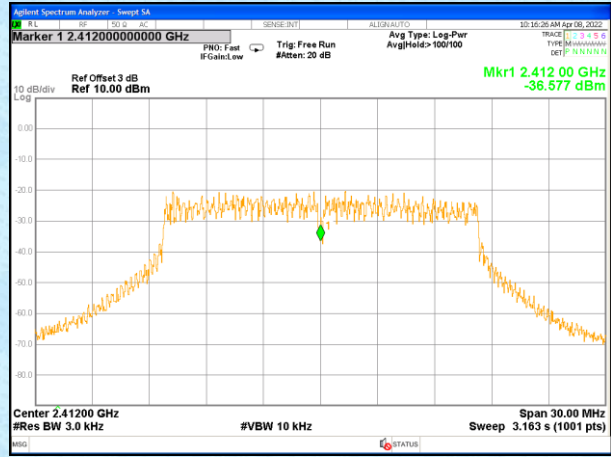
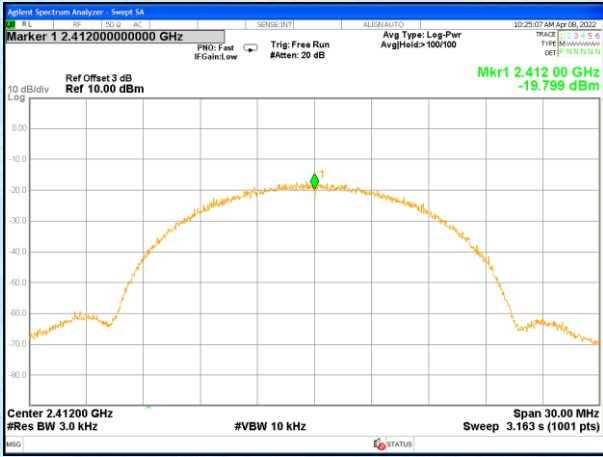
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

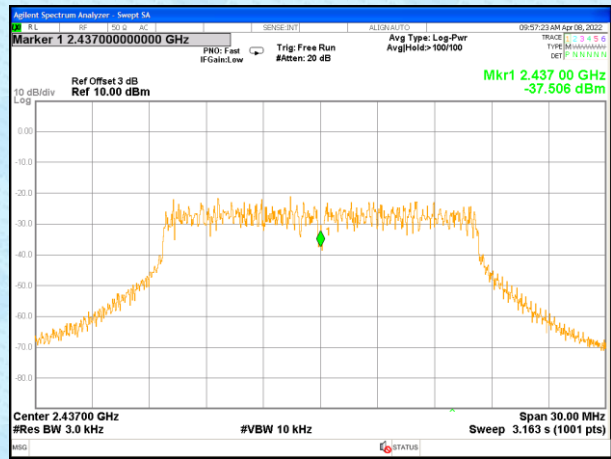
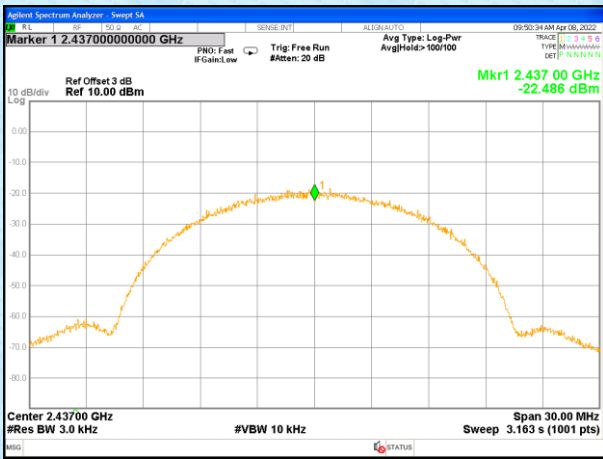
Test CH	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	-19.799	-36.577	-36.423	8.00	Pass
Middle	-22.486	-37.506	-36.693		
Highest	-21.866	-38.053	-34.772		

Test plot as follows:

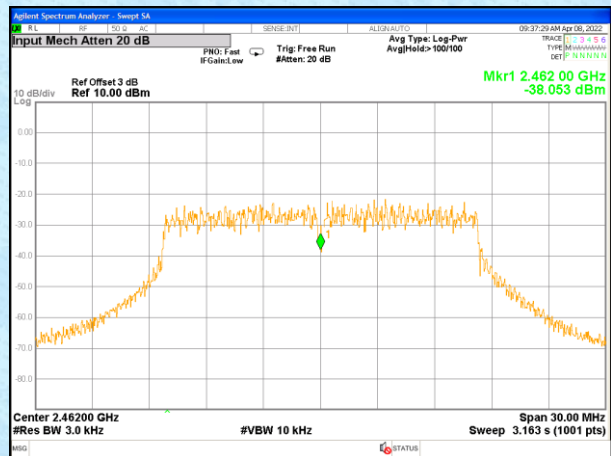
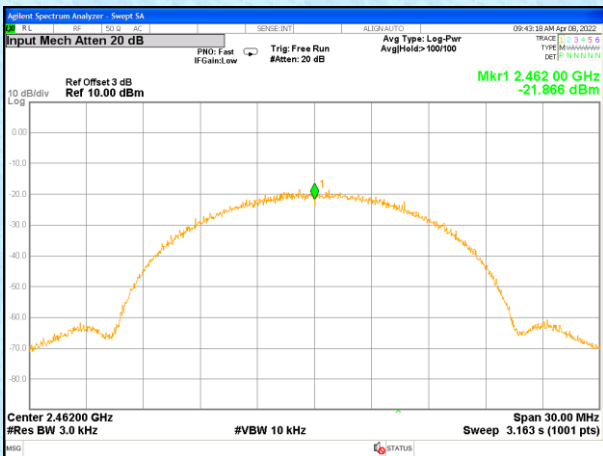
802.11b	802.11g
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Lowest channel

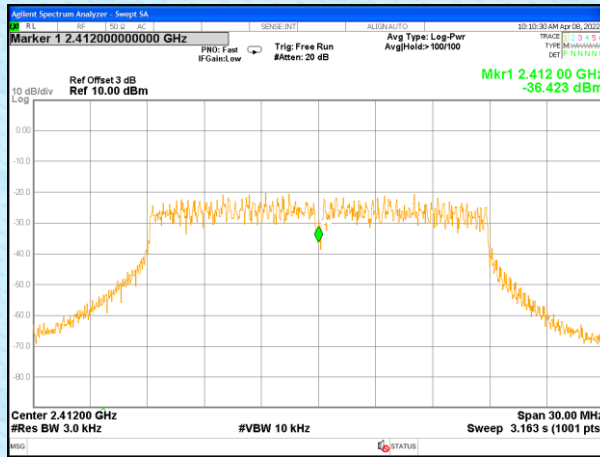


Middle channel

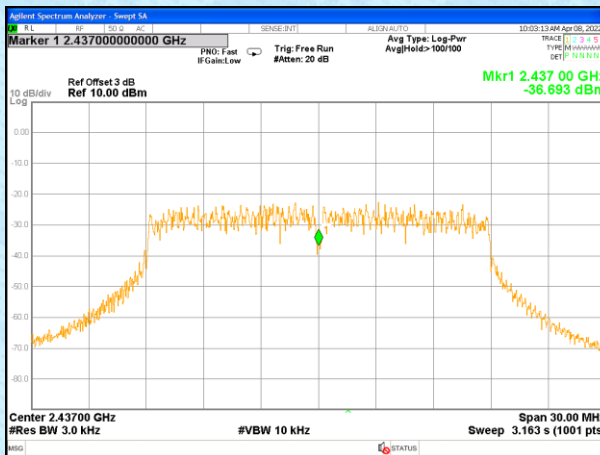


Highest channel

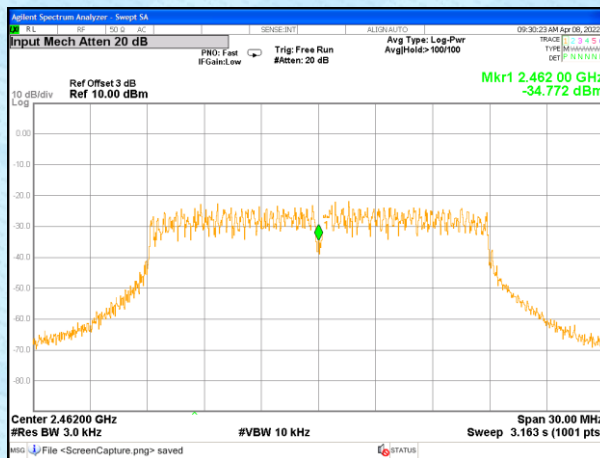
802.11n(HT20)



Lowest channel



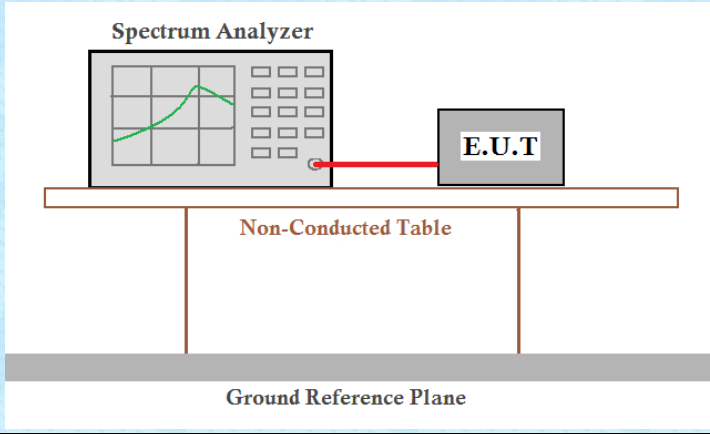
Middle channel



Highest channel

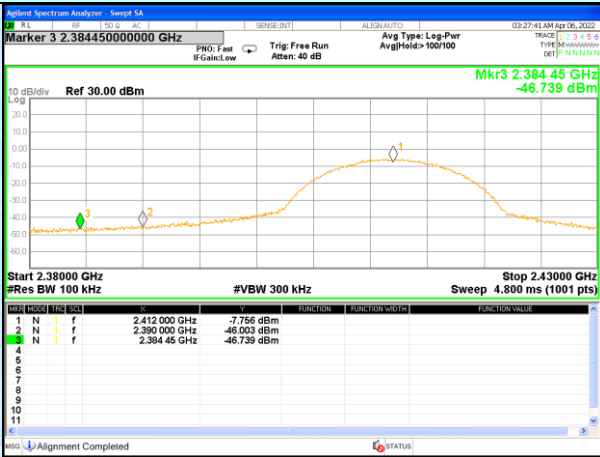
## 7.5 Band edges

### 7.5.1 Conducted Emission Method

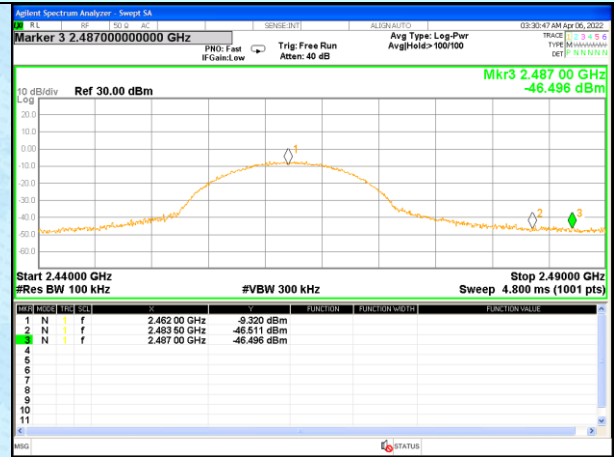
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Test plot as follows:**

Test mode: 802.11b

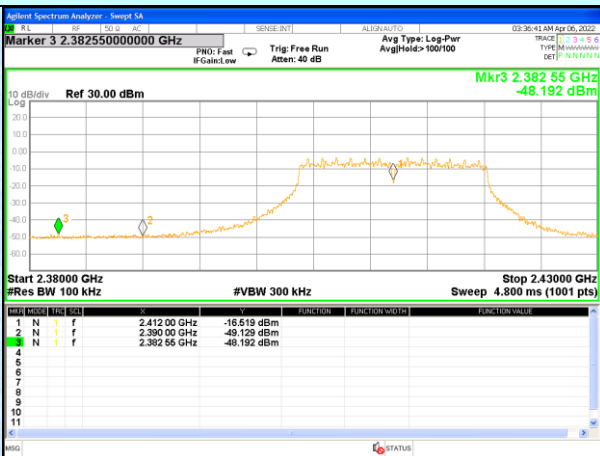


Lowest channel

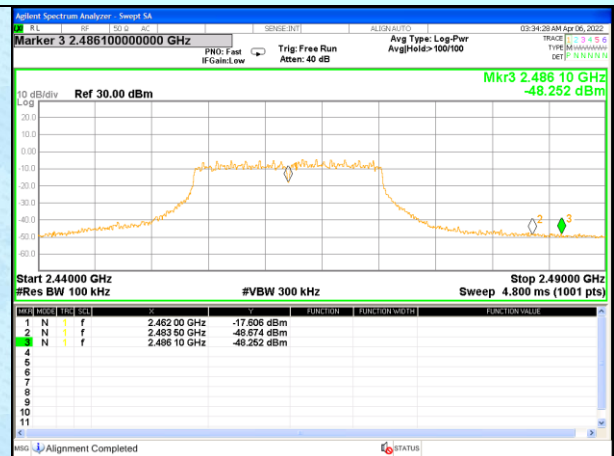


Highest channel

Test mode: 802.11g

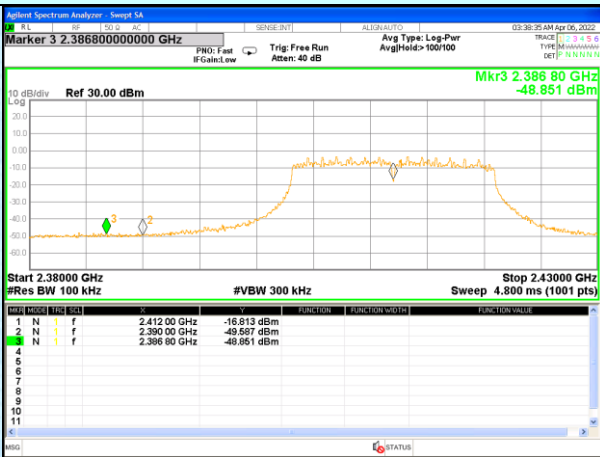


Lowest channel

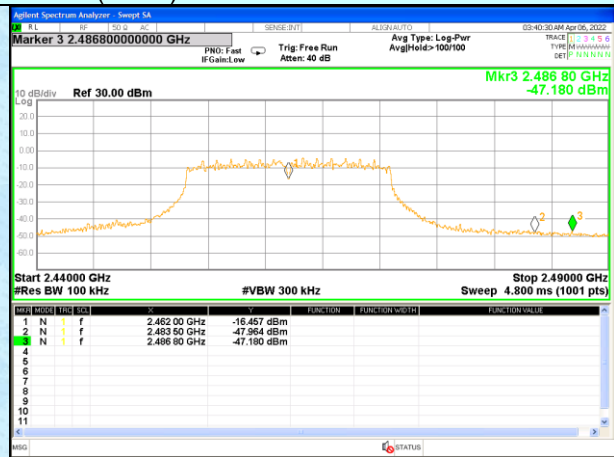


Highest channel

Test mode: 802.11n(HT20)



Lowest channel



Highest channel

## 7.5.2 Radiated Emission Method

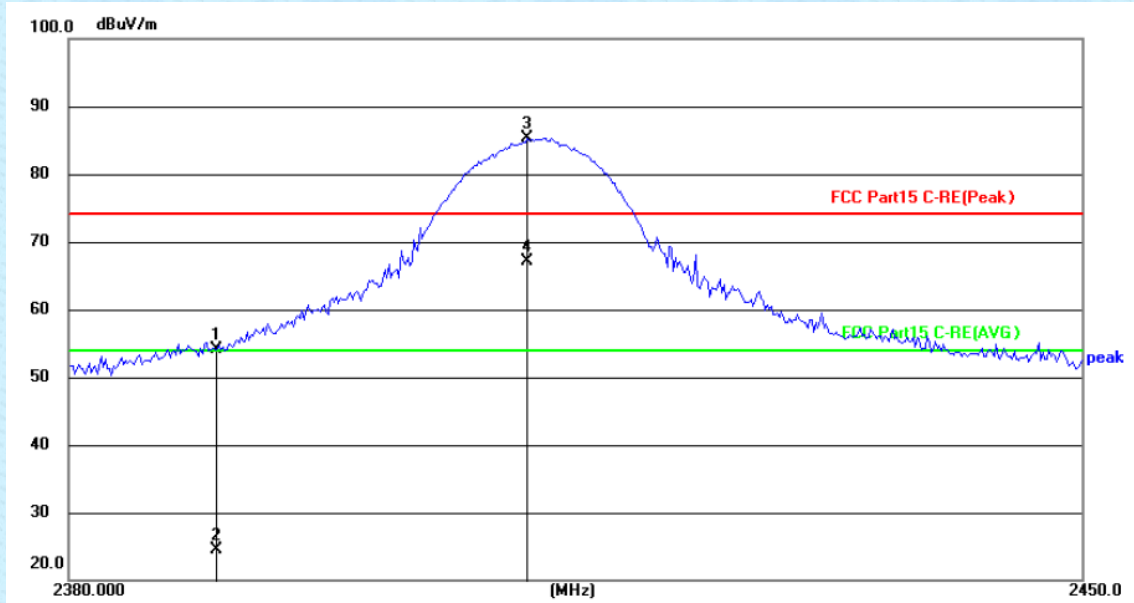
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. 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.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. 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.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

**Measurement data:**

All antennas have test, only the worst case ANT 1 report.

Test mode:	802.11b	Test channel:	Lowest
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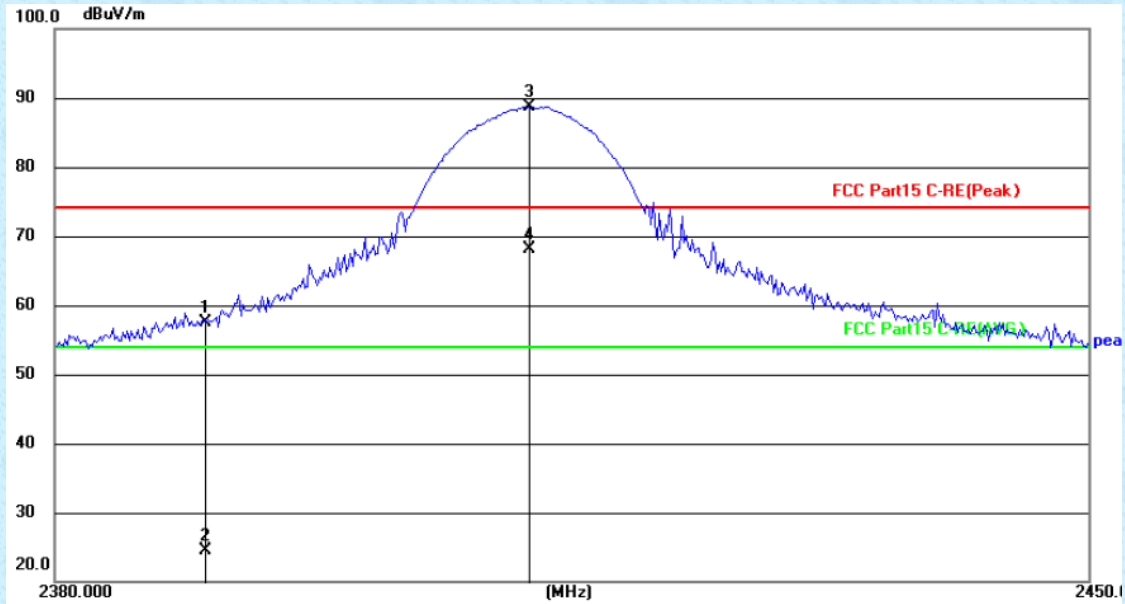
**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	27.78	26.32	54.10	74.00	-19.90	peak
2	2390.000	-1.84	26.32	24.48	54.00	-29.52	AVG
3	2411.452	59.00	26.36	85.36	74.00	11.36	peak
4	2411.452	40.67	26.36	67.03	54.00	13.03	AVG



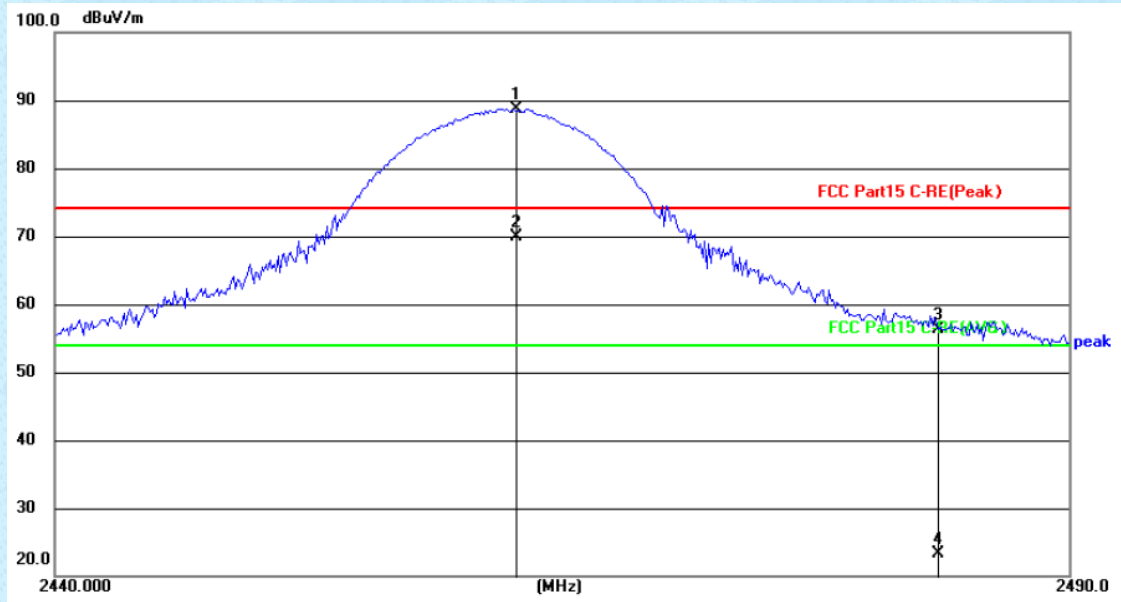
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.12	26.32	57.44	74.00	-16.56	peak
2	2390.000	-1.83	26.32	24.49	54.00	-29.51	AVG
3	2411.872	62.33	26.36	88.69	74.00	14.69	peak
4	2411.872	41.80	26.36	68.16	54.00	14.16	AVG

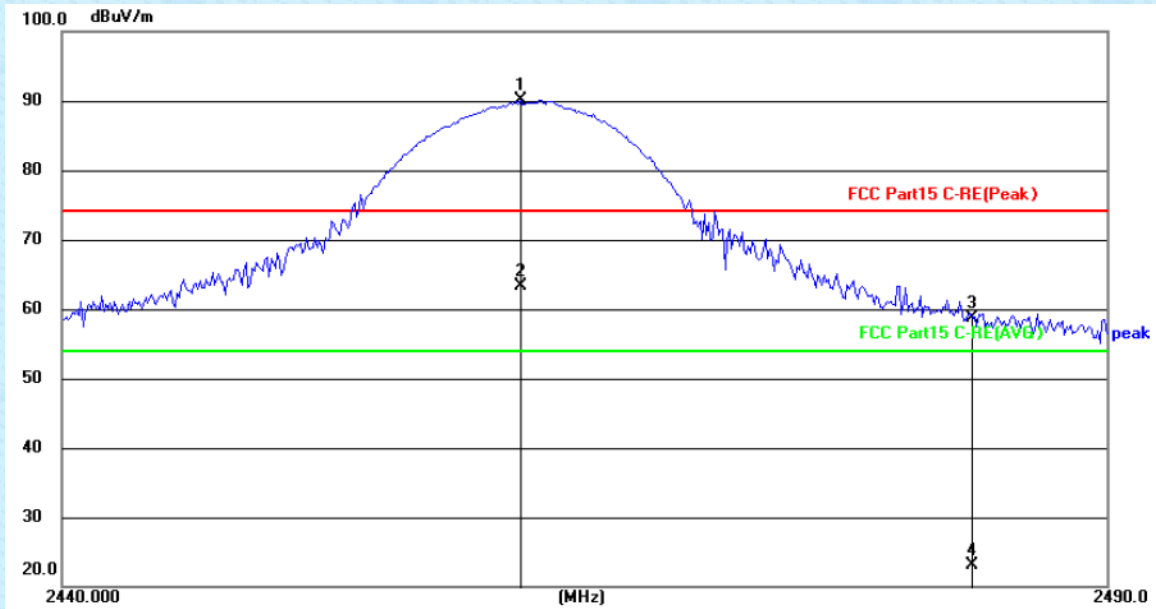
Test mode:	802.11b	Test channel:	Highest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.520	62.33	26.44	88.77	74.00	14.77	peak
2	2462.520	43.47	26.44	69.91	54.00	15.91	AVG
3	2483.500	29.81	26.47	56.28	74.00	-17.72	peak
4	2483.500	-3.20	26.47	23.27	54.00	-30.73	AVG

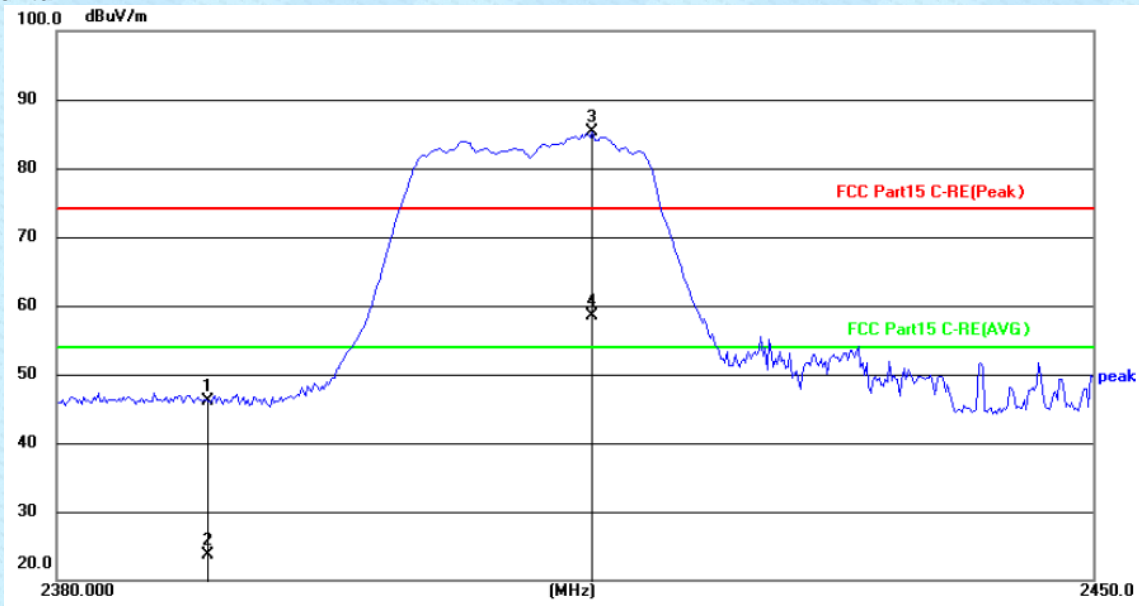
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2461.819	63.71	26.44	90.15	74.00	16.15	peak
2	2461.819	36.96	26.44	63.40	54.00	9.40	AVG
3	2483.500	32.15	26.47	58.62	74.00	-15.38	peak
4	2483.500	-3.33	26.47	23.14	54.00	-30.86	AVG

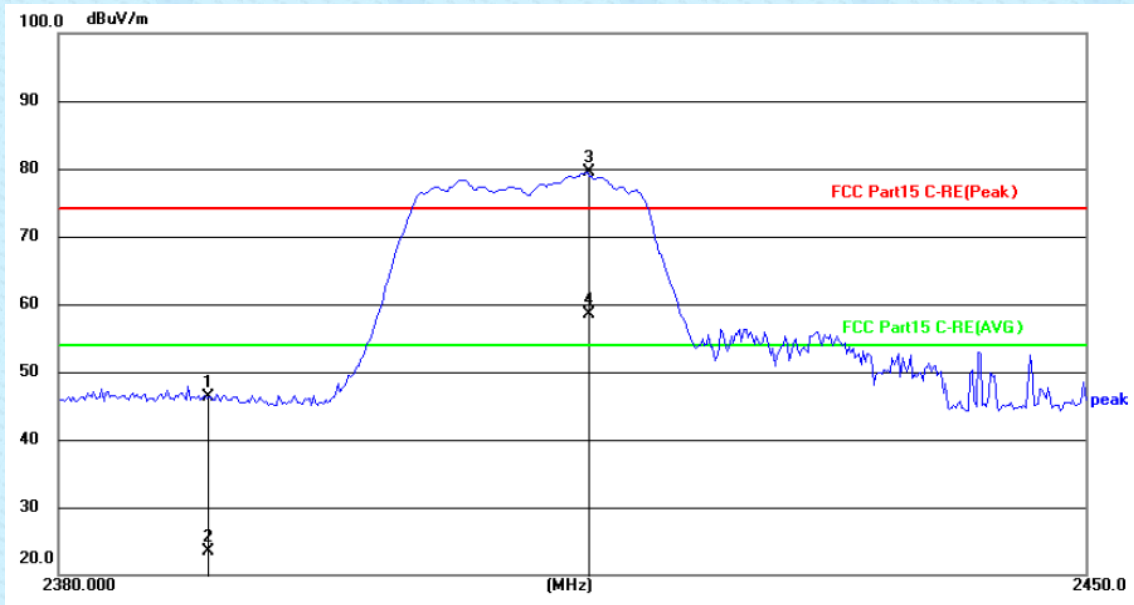
Test mode:	802.11g	Test channel:	Lowest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	19.85	26.32	46.17	74.00	-27.83	peak
2	2390.000	-2.69	26.32	23.63	54.00	-30.37	AVG
3	2415.939	58.91	26.37	85.28	74.00	11.28	peak
4	2415.939	32.22	26.37	58.59	54.00	4.59	AVG

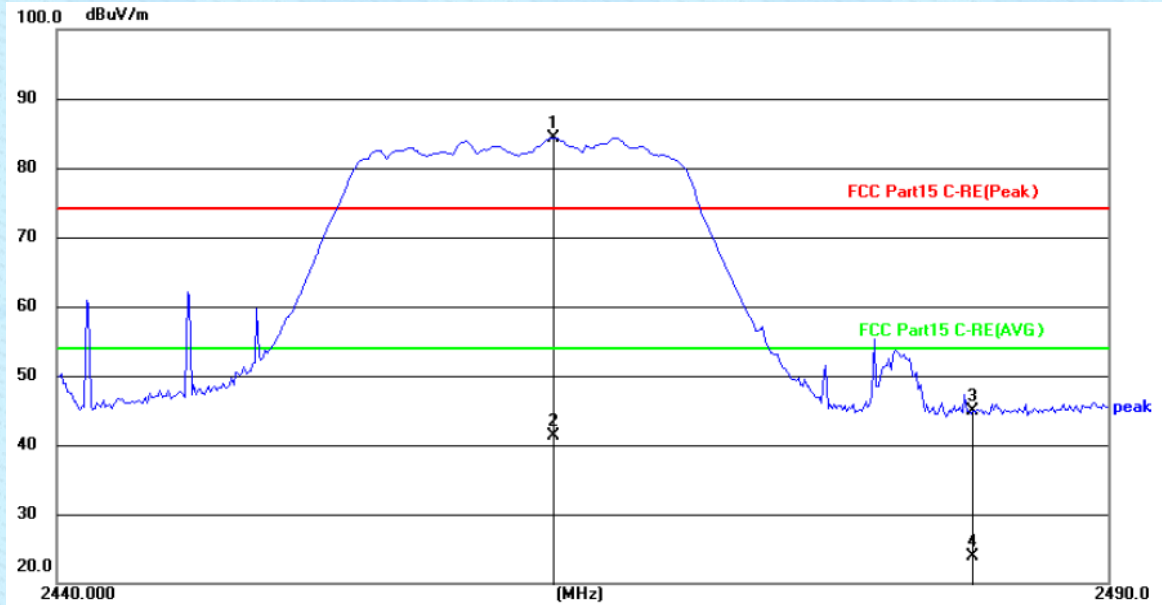
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	20.01	26.32	46.33	74.00	-27.67	peak
2	2390.000	-2.84	26.32	23.48	54.00	-30.52	AVG
3	2415.799	53.16	26.37	79.53	74.00	5.53	peak
4	2415.799	32.06	26.37	58.43	54.00	4.43	AVG

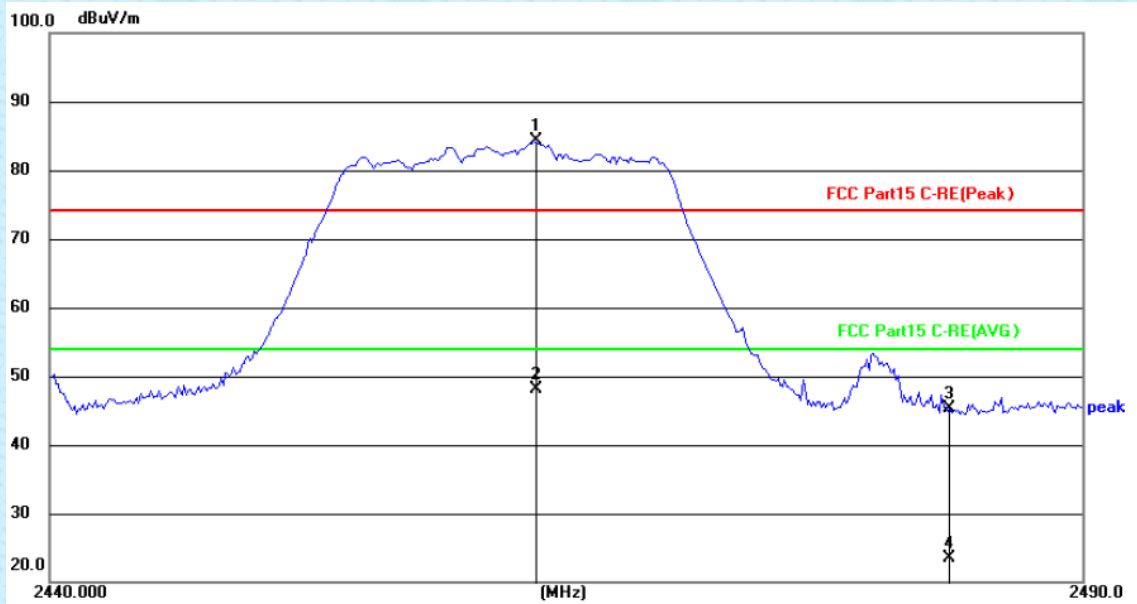
Test mode:	802.11g	Test channel:	Highest
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.521	57.92	26.44	84.36	74.00	10.36	peak
2	2463.521	14.95	26.44	41.39	54.00	-12.61	AVG
3	2483.500	18.35	26.47	44.82	74.00	-29.18	peak
4	2483.500	-2.62	26.47	23.85	54.00	-30.15	AVG

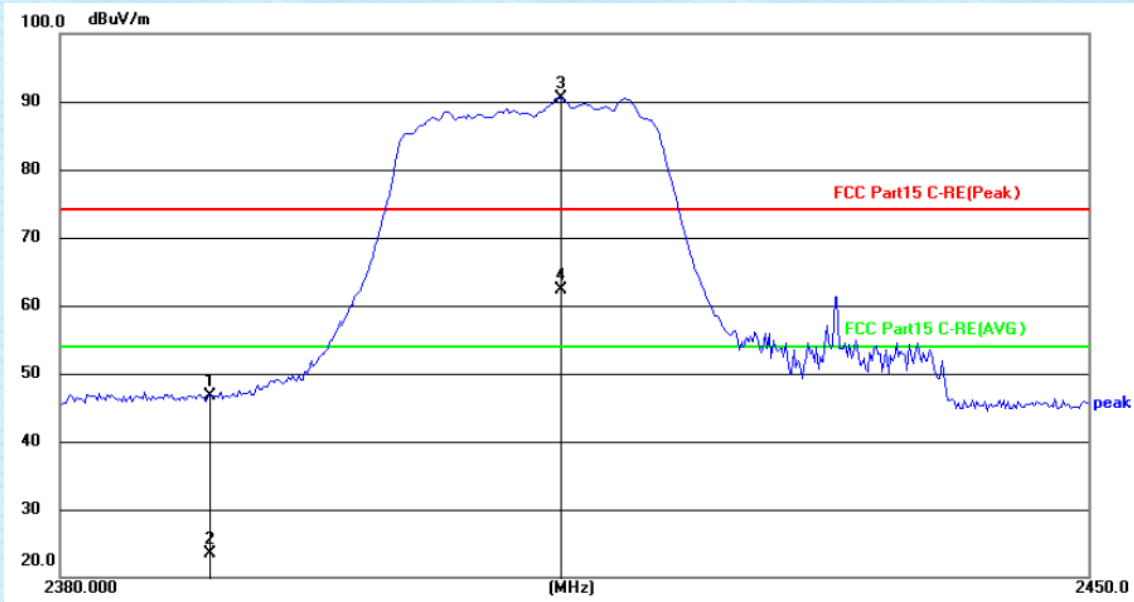
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.321	57.85	26.44	84.29	74.00	10.29	peak
2	2463.321	21.72	26.44	48.16	54.00	-5.84	AVG
3	2483.500	18.85	26.47	45.32	74.00	-28.68	peak
4	2483.500	-2.94	26.47	23.53	54.00	-30.47	AVG

Test mode:	802.11n(HT20)	Test channel:	Lowest
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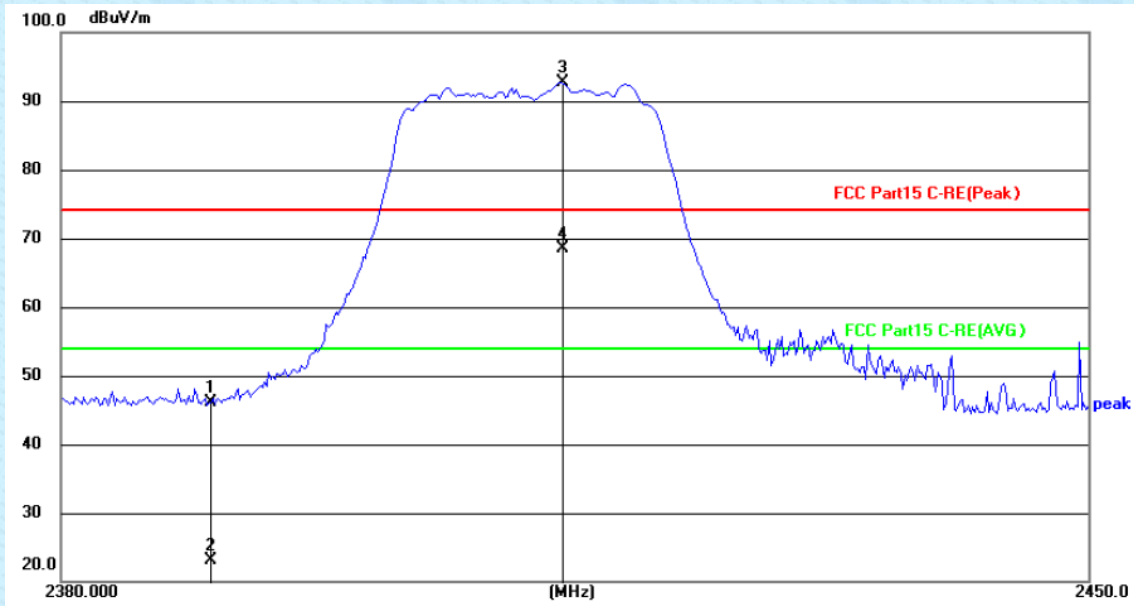
**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	20.38	26.32	46.70	74.00	-27.30	peak
2	2390.000	-2.80	26.32	23.52	54.00	-30.48	AVG
3	2413.695	64.19	26.36	90.55	74.00	16.55	peak
4	2413.695	35.91	26.36	62.27	54.00	8.27	AVG



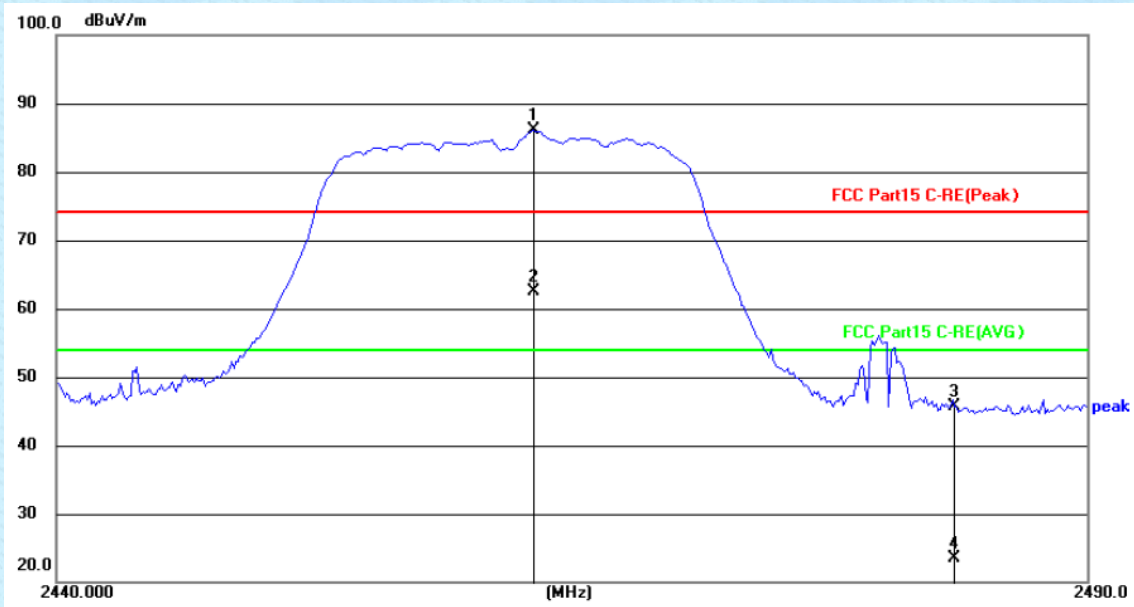
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	19.79	26.32	46.11	74.00	-27.89	peak
2	2390.000	-3.15	26.32	23.17	54.00	-30.83	AVG
3	2413.835	66.33	26.36	92.69	74.00	18.69	peak
4	2413.835	42.23	26.36	68.59	54.00	14.59	AVG

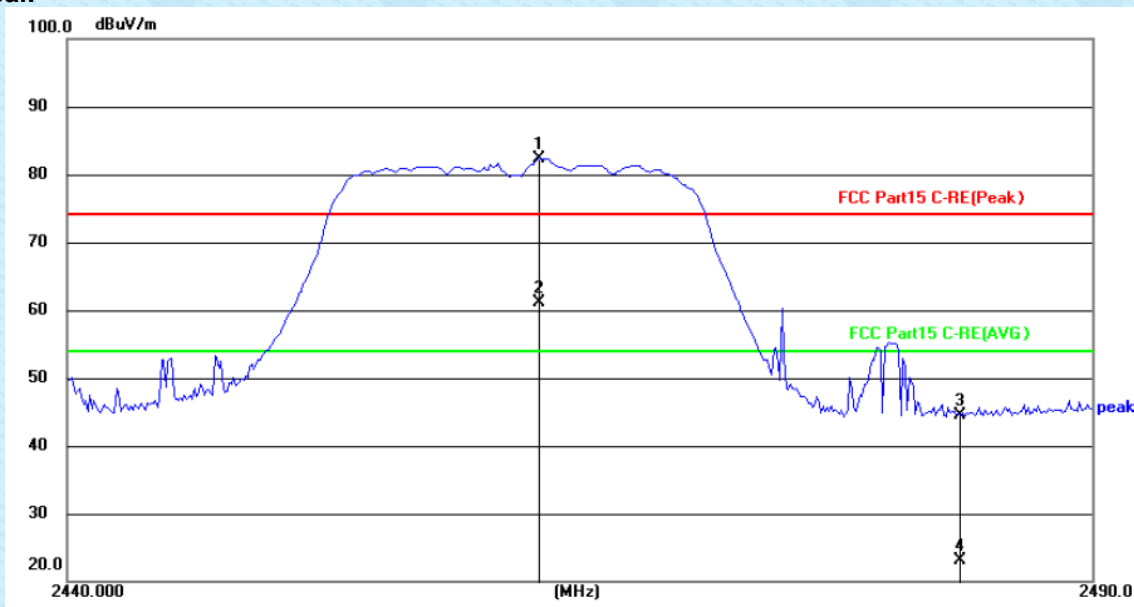
Test mode:	802.11n(HT20)	Test channel:	Highest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.020	59.59	26.44	86.03	74.00	12.03	peak
2	2463.020	36.10	26.44	62.54	54.00	8.54	AVG
3	2483.500	19.24	26.47	45.71	74.00	-28.29	peak
4	2483.500	-2.95	26.47	23.52	54.00	-30.48	AVG

**Vertical:**



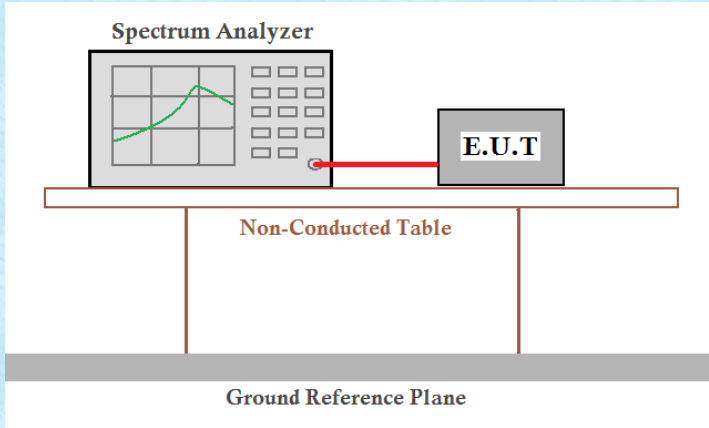
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.920	55.96	26.44	82.40	74.00	8.40	peak
2	2462.920	34.69	26.44	61.13	54.00	7.13	AVG
3	2483.500	17.99	26.47	44.46	74.00	-29.54	peak
4	2483.500	-3.30	26.47	23.17	54.00	-30.83	AVG

*Remarks:*

1. Only the worst case Main Antenna test data.
2. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
3. Final Level = Receiver Read level + Antenna Factor
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.6 Spurious Emission

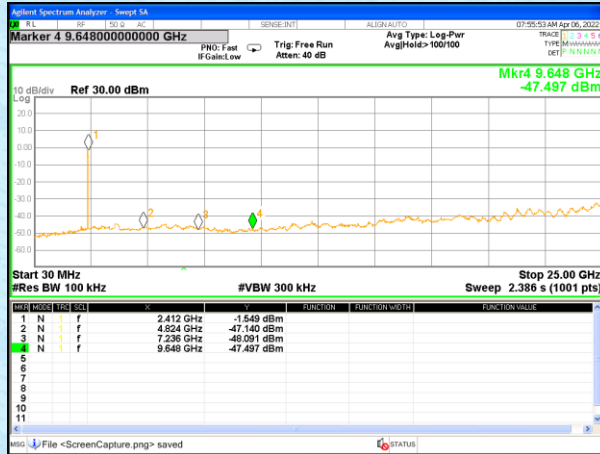
### 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:

802.11b

Lowest channel



30MHz~25GHz

Middle channel



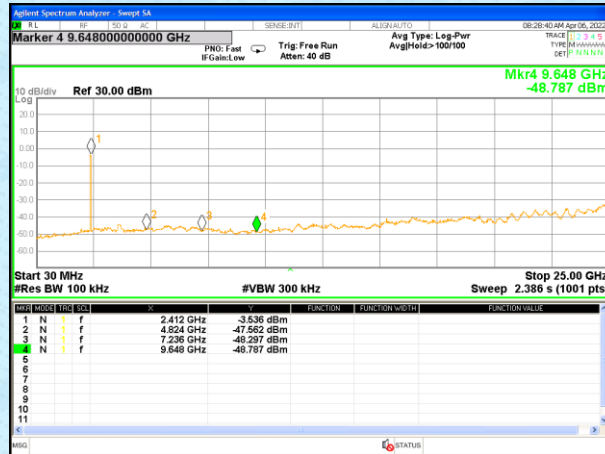
30MHz~25GHz

Highest channel



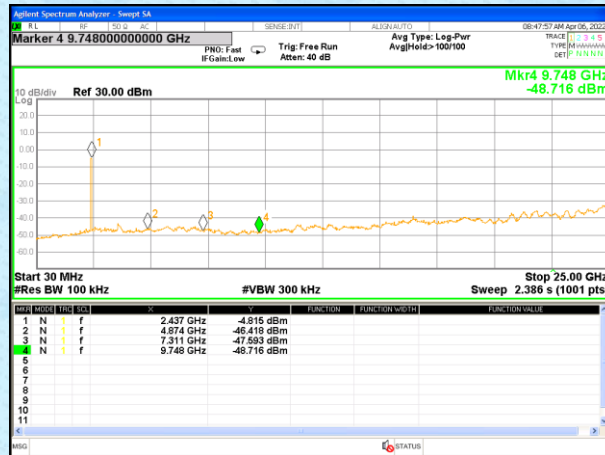
30MHz~25GHz

802.11g  
Lowest channel



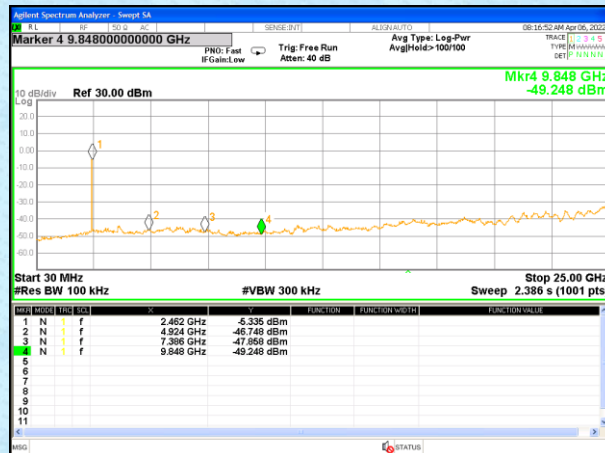
30MHz~25GHz

Middle channel



30MHz~25GHz

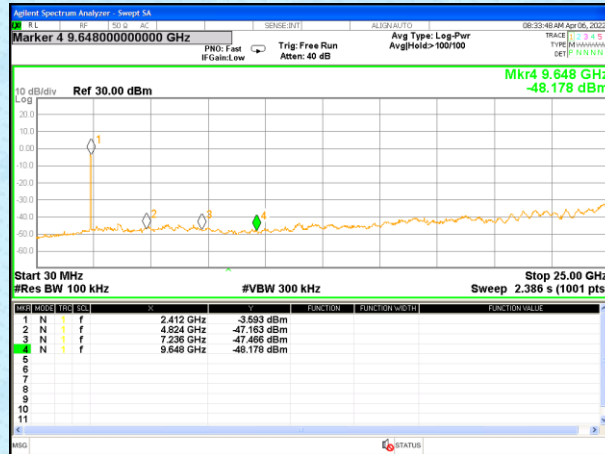
Highest channel



30MHz~25GHz

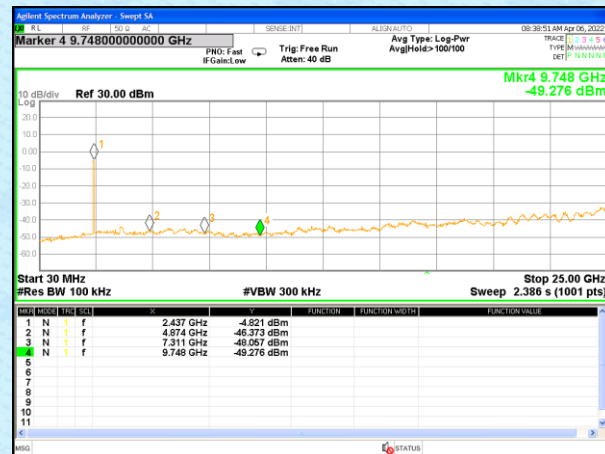
802.11n(HT20)

Lowest channel



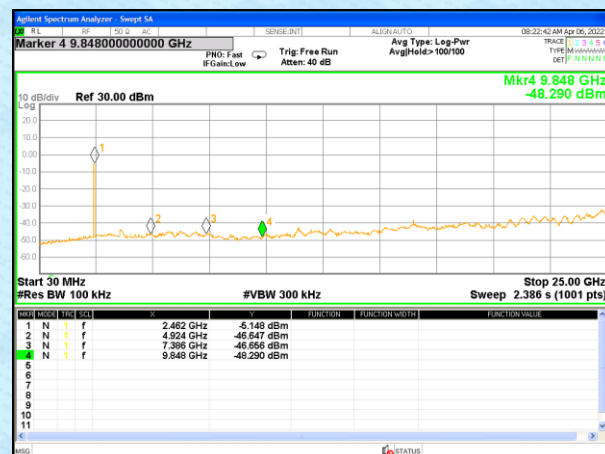
30MHz~25GHz

Middle channel



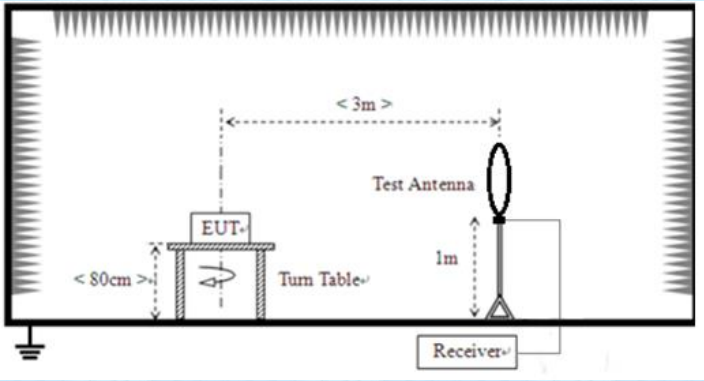
30MHz~25GHz

Highest channel

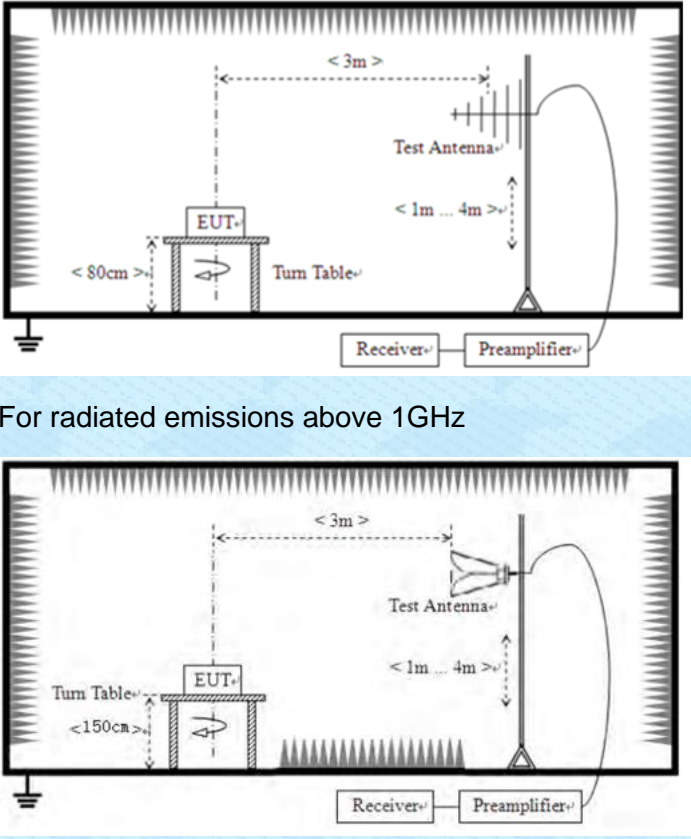


30MHz~25GHz

## 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
	 <p>The diagram illustrates the test setup for radiated emissions from 9kHz to 30MHz. It shows an Equipment Under Test (EUT) placed on a turn table at a height of less than 80cm. A test antenna is positioned at a distance of 3m from the EUT. A receiver is connected to the test antenna and is positioned at a height of 1m. The setup is shown within a shielded enclosure.</p>				
For radiated emissions from 30MHz to 1GHz					



	 <p>For radiated emissions above 1GHz</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. 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.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. 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.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>

Test voltage:	AC120V 60Hz					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	5Vdc 1A					
Test results:	Pass					

*Remarks:*

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

**Measurement data:**

■ **9kHz~30MHz**

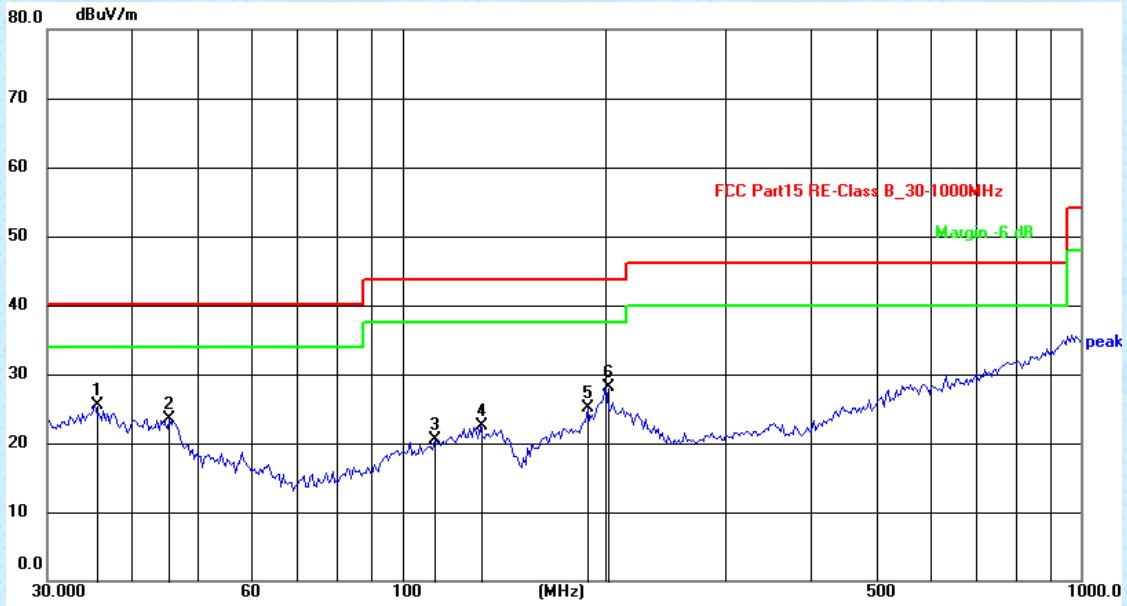
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

■ **Above 18GHz**

The emission from Above 18GHz was pre-tested and found the result was 20dB lower than the limit, the test result no need to reported.

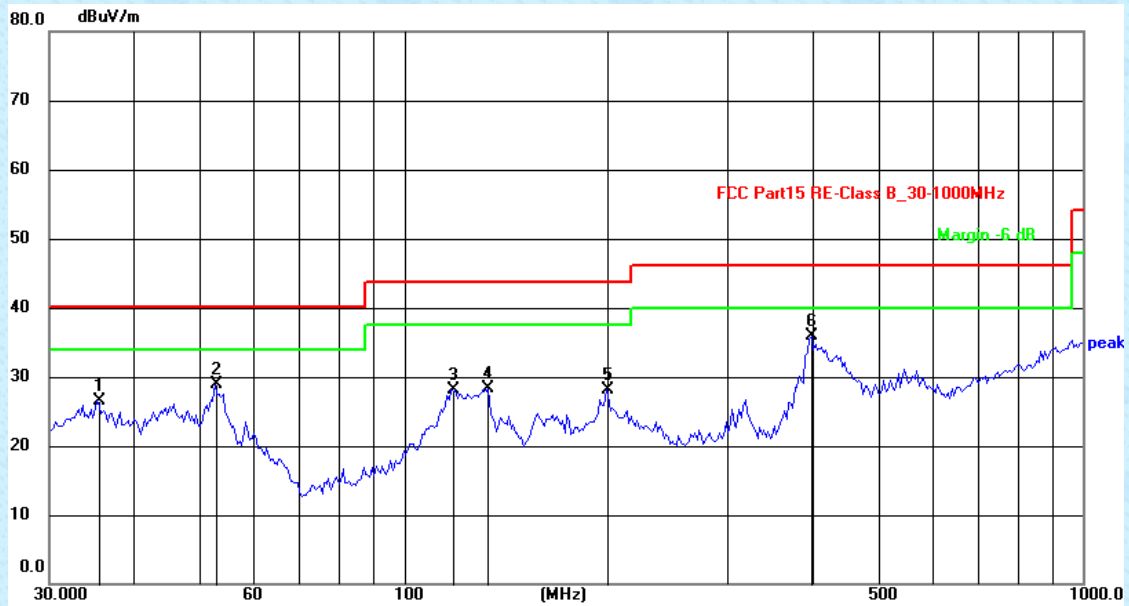
■ Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.2626	27.88	-2.30	25.58	40.00	-14.42	QP
2	45.4130	27.91	-4.45	23.46	40.00	-16.54	QP
3	111.6398	28.00	-7.54	20.46	43.50	-23.04	QP
4	130.3048	28.49	-5.93	22.56	43.50	-20.94	QP
5	187.7833	29.83	-4.65	25.18	43.50	-18.32	QP
6	200.0432	28.86	-0.75	28.11	43.50	-15.39	QP

**Vertical:**

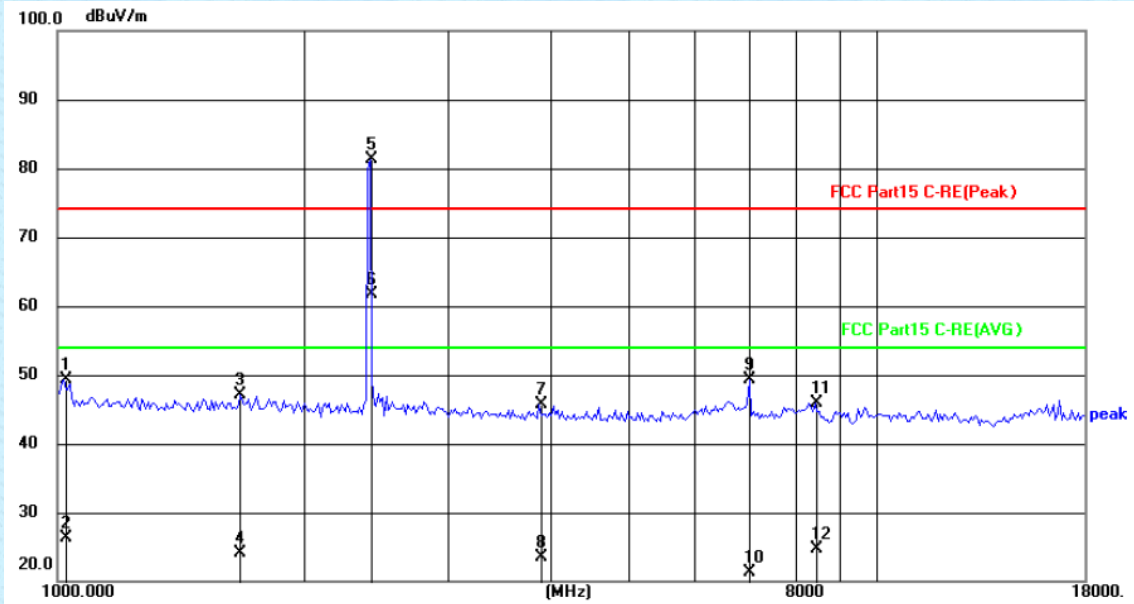


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.2626	28.72	-2.30	26.42	40.00	-13.58	QP
2	52.6345	38.00	-9.03	28.97	40.00	-11.03	QP
3	117.2688	34.91	-6.74	28.17	43.50	-15.33	QP
4	133.0809	34.40	-6.01	28.39	43.50	-15.11	QP
5	198.6424	29.76	-1.74	28.02	43.50	-15.48	QP
6	398.2962	38.67	-2.86	35.81	46.00	-10.19	QP

**Above 1GHz**

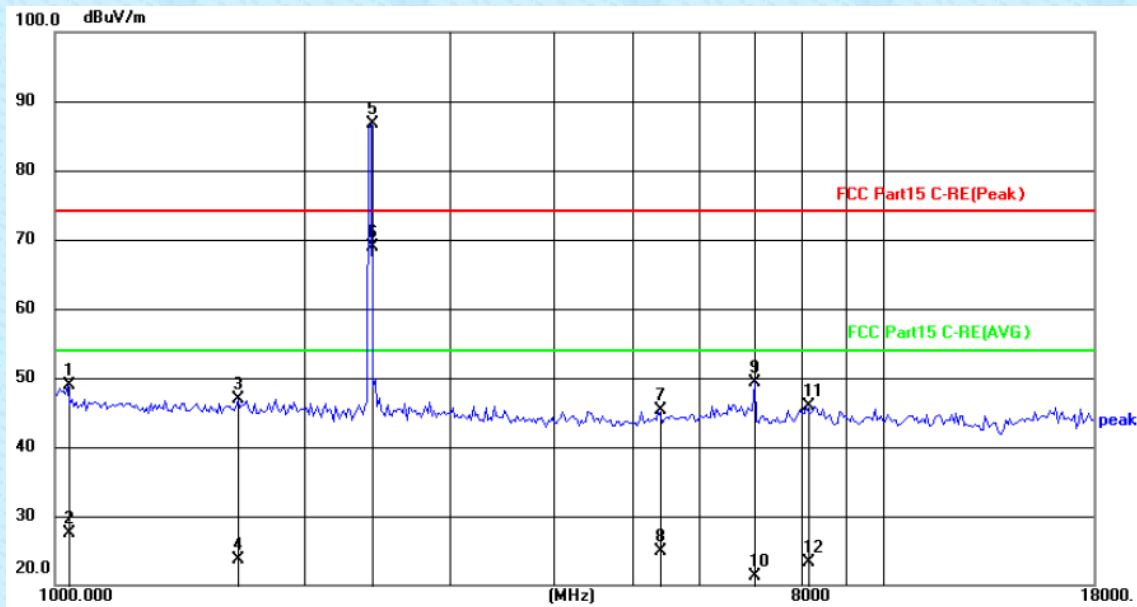
Test mode:	802.11b	Test channel:	Lowest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1017.529	47.62	1.67	49.29	74.00	-24.71	peak
2	1017.529	24.70	1.67	26.37	54.00	-27.63	AVG
3	1674.504	22.36	24.72	47.08	74.00	-26.92	peak
4	1674.504	-0.59	24.72	24.13	54.00	-29.87	AVG
5	2411.946	54.94	26.36	81.30	74.00	7.30	peak
6	2411.946	35.37	26.36	61.73	54.00	7.73	AVG
7	3878.331	17.00	28.75	45.75	74.00	-28.25	peak
8	3878.331	-5.21	28.75	23.54	54.00	-30.46	AVG
9	7002.185	13.54	35.80	49.34	74.00	-24.66	peak
10	7002.185	-14.54	35.80	21.26	54.00	-32.74	AVG
11	8428.146	9.17	36.74	45.91	74.00	-28.09	peak
12	8428.146	-11.96	36.74	24.78	54.00	-29.22	AVG

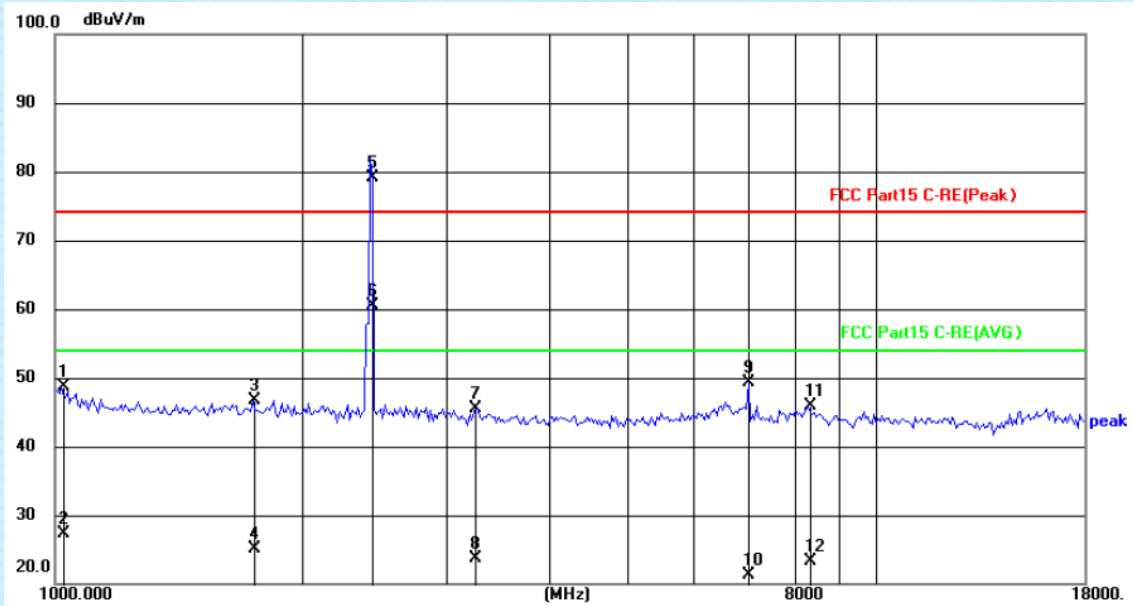
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1035.365	47.04	1.95	48.99	74.00	-25.01	peak
2	1035.365	25.46	1.95	27.41	54.00	-26.59	AVG
3	1664.833	22.21	24.69	46.90	74.00	-27.10	peak
4	1664.833	-0.91	24.69	23.78	54.00	-30.22	AVG
5	2411.946	60.38	26.36	86.74	74.00	12.74	peak
6	2411.946	42.56	26.36	68.92	54.00	14.92	AVG
7	5364.350	14.38	31.01	45.39	74.00	-28.61	peak
8	5364.350	-6.16	31.01	24.85	54.00	-29.15	AVG
9	7002.185	13.60	35.80	49.40	74.00	-24.60	peak
10	7002.185	-14.45	35.80	21.35	54.00	-32.65	AVG
11	8093.251	9.18	36.71	45.89	74.00	-28.11	peak
12	8093.251	-13.36	36.71	23.35	54.00	-30.65	AVG

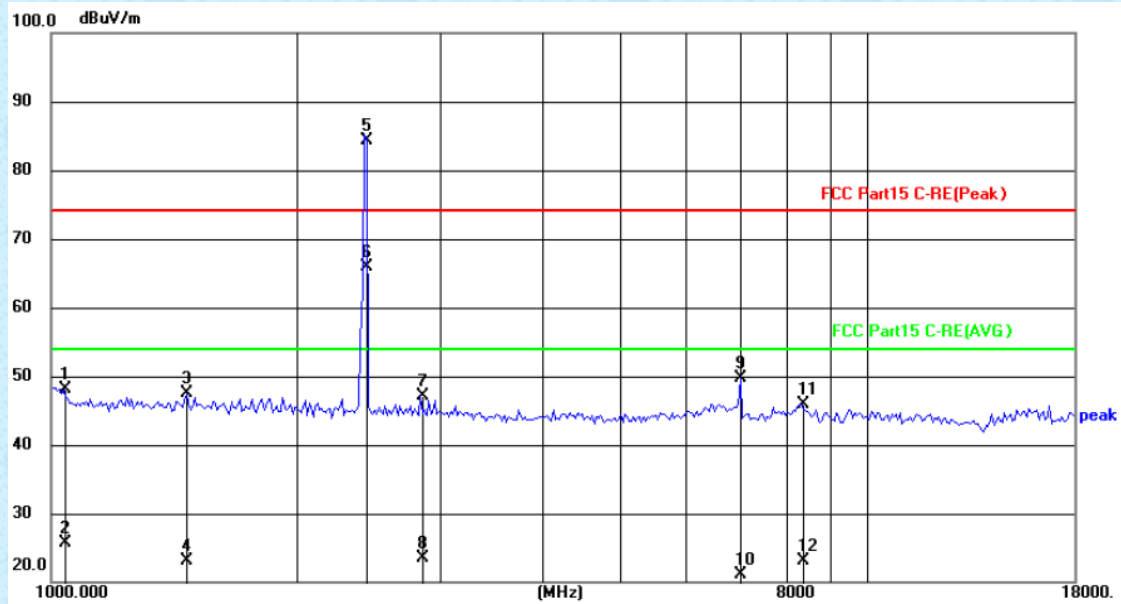
Test mode:	802.11b	Test channel:	Middle
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1017.529	47.04	1.67	48.71	74.00	-25.29	peak
2	1017.529	25.67	1.67	27.34	54.00	-26.66	AVG
3	1743.795	21.81	24.93	46.74	74.00	-27.26	peak
4	1743.795	0.16	24.93	25.09	54.00	-28.91	AVG
5	2437.000	52.71	26.40	79.11	74.00	5.11	peak
6	2437.000	34.14	26.40	60.54	54.00	6.54	AVG
7	3259.699	17.69	27.87	45.56	74.00	-28.44	peak
8	3259.699	-4.10	27.87	23.77	54.00	-30.23	AVG
9	7002.185	13.50	35.80	49.30	74.00	-24.70	peak
10	7002.185	-14.41	35.80	21.39	54.00	-32.61	AVG
11	8282.955	9.21	36.73	45.94	74.00	-28.06	peak
12	8282.955	-13.37	36.73	23.36	54.00	-30.64	AVG

**Vertical:**

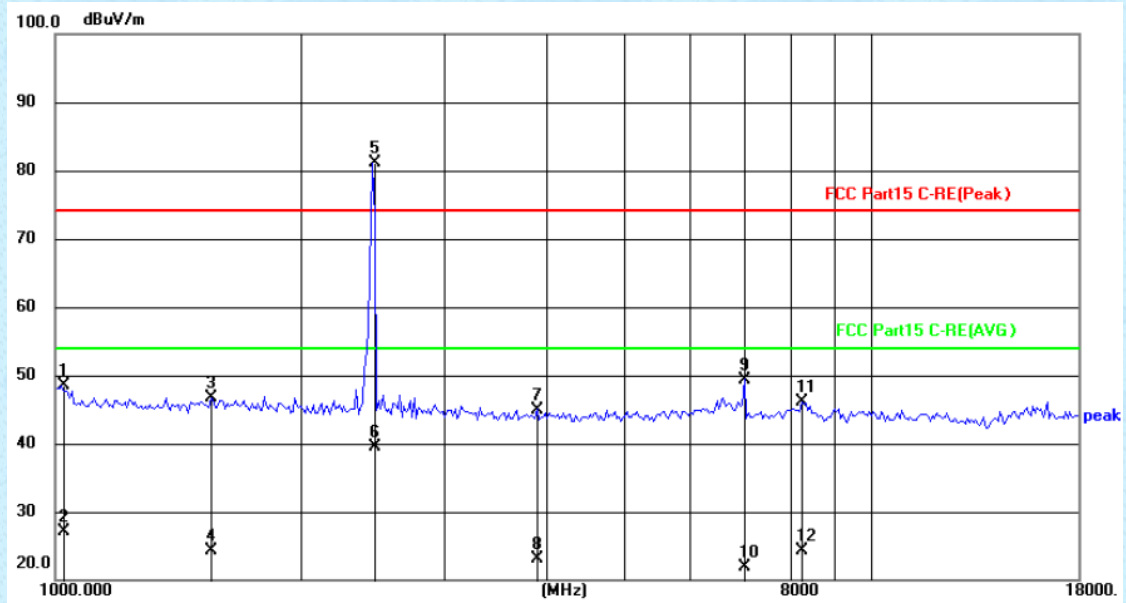


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1035.365	46.25	1.95	48.20	74.00	-25.80	peak
2	1035.365	23.72	1.95	25.67	54.00	-28.33	AVG
3	1465.642	23.05	24.37	47.42	74.00	-26.58	peak
4	1465.642	-1.23	24.37	23.14	54.00	-30.86	AVG
5	2437.000	57.91	26.40	84.31	74.00	10.31	peak
6	2437.000	39.41	26.40	65.81	54.00	11.81	AVG
7	2836.637	19.93	27.11	47.04	74.00	-26.96	peak
8	2836.637	-3.56	27.11	23.55	54.00	-30.45	AVG
9	7002.185	13.95	35.80	49.75	74.00	-24.25	peak
10	7002.185	-14.63	35.80	21.17	54.00	-32.83	AVG
11	8331.072	9.11	36.73	45.84	74.00	-28.16	peak
12	8331.072	-13.59	36.73	23.14	54.00	-30.86	AVG



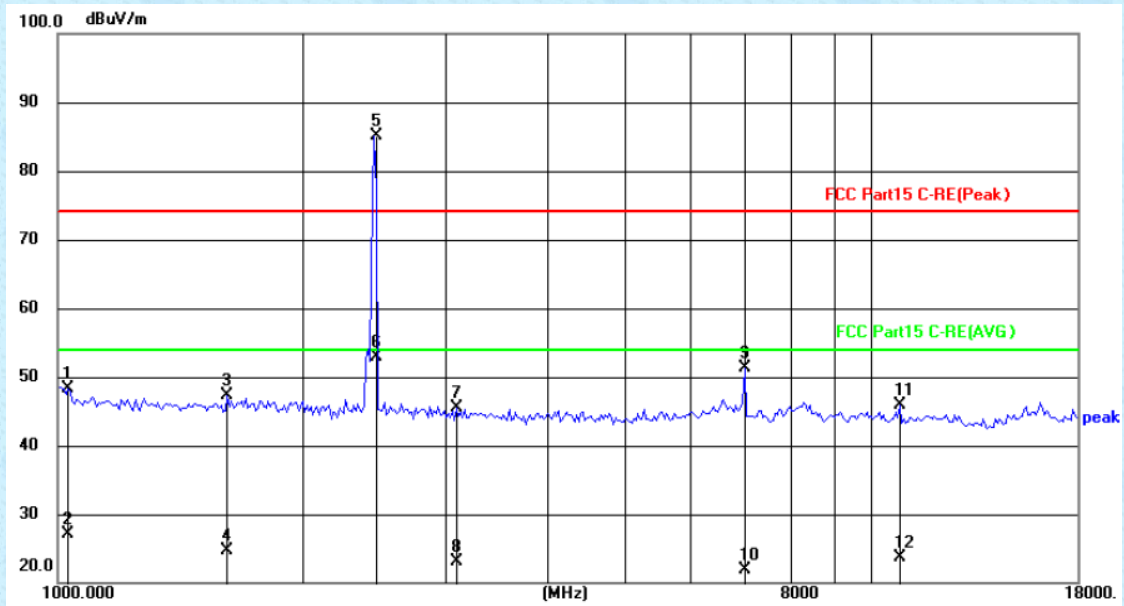
Test mode:	802.11b	Test channel:	Highest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1017.529	46.83	1.67	48.50	74.00	-25.50	peak
2	1017.529	25.52	1.67	27.19	54.00	-26.81	AVG
3	1553.044	22.34	24.45	46.79	74.00	-27.21	peak
4	1553.044	-0.23	24.45	24.22	54.00	-29.78	AVG
5	2462.000	54.57	26.44	81.01	74.00	7.01	peak
6	2462.000	13.02	26.44	39.46	54.00	-14.54	AVG
7	3900.860	16.22	28.78	45.00	74.00	-29.00	peak
8	3900.860	-5.59	28.78	23.19	54.00	-30.81	AVG
9	7002.185	13.60	35.80	49.40	74.00	-24.60	peak
10	7002.185	-13.96	35.80	21.84	54.00	-32.16	AVG
11	8235.116	9.39	36.72	46.11	74.00	-27.89	peak
12	8235.116	-12.51	36.72	24.21	54.00	-29.79	AVG

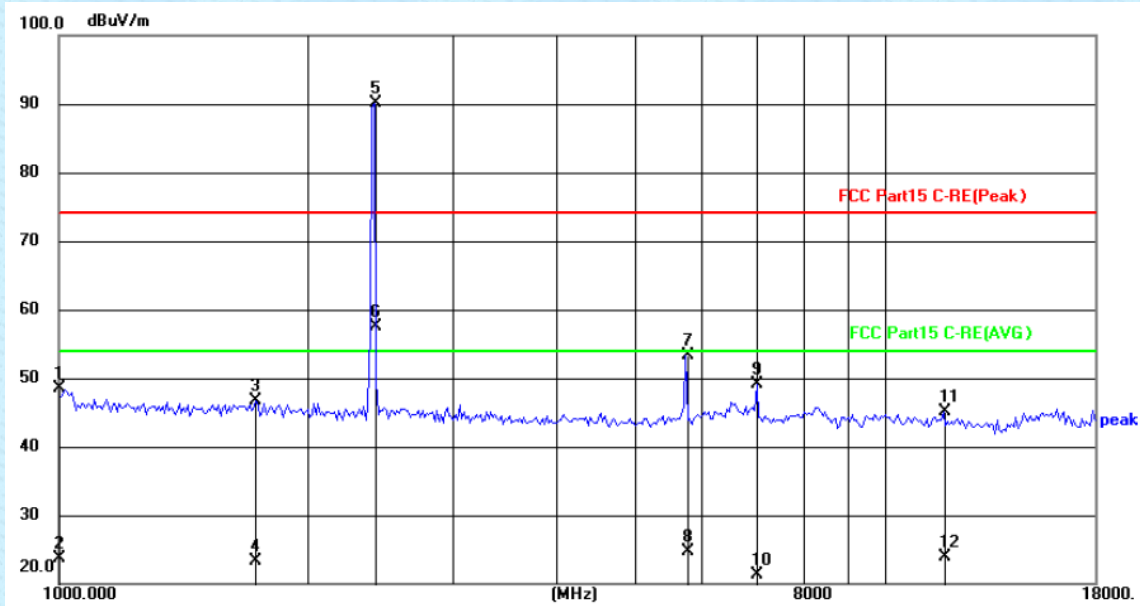
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1029.385	46.36	1.86	48.22	74.00	-25.78	peak
2	1029.385	25.32	1.86	27.18	54.00	-26.82	AVG
3	1617.308	22.72	24.55	47.27	74.00	-26.73	peak
4	1617.308	0.06	24.55	24.61	54.00	-29.39	AVG
5	2462.000	58.62	26.44	85.06	74.00	11.06	peak
6	2462.000	26.45	26.44	52.89	54.00	-1.11	AVG
7	3094.121	17.85	27.57	45.42	74.00	-28.58	peak
8	3094.121	-4.37	27.57	23.20	54.00	-30.80	AVG
9	7002.185	15.51	35.80	51.31	74.00	-22.69	peak
10	7002.185	-14.00	35.80	21.80	54.00	-32.20	AVG
11	10874.702	6.13	39.81	45.94	74.00	-28.06	peak
12	10874.702	-16.10	39.81	23.71	54.00	-30.29	AVG

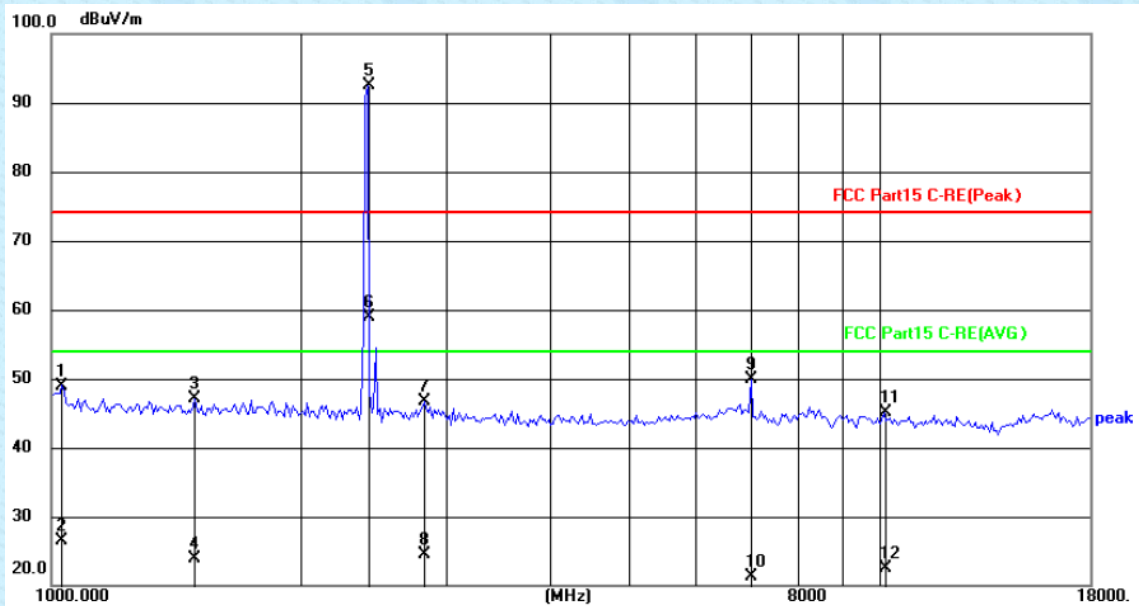
Test mode:	802.11g	Test channel:	lowest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1000.0000	47.08	1.40	48.48	74.00	-25.52	peak
2	1000.0000	22.39	1.40	23.79	54.00	-30.21	AVG
3	1733.723	21.79	24.90	46.69	74.00	-27.31	peak
4	1733.723	-1.65	24.90	23.25	54.00	-30.75	AVG
5	2411.946	63.70	26.36	90.06	74.00	16.06	peak
6	2411.946	31.10	26.36	57.46	54.00	3.46	AVG
7	5750.479	21.27	31.95	53.22	74.00	-20.78	peak
8	5750.479	-7.17	31.95	24.78	54.00	-29.22	AVG
9	7002.185	13.32	35.80	49.12	74.00	-24.88	peak
10	7002.185	-14.56	35.80	21.24	54.00	-32.76	AVG
11	11793.303	4.76	40.38	45.14	74.00	-28.86	peak
12	11793.303	-16.45	40.38	23.93	54.00	-30.07	AVG

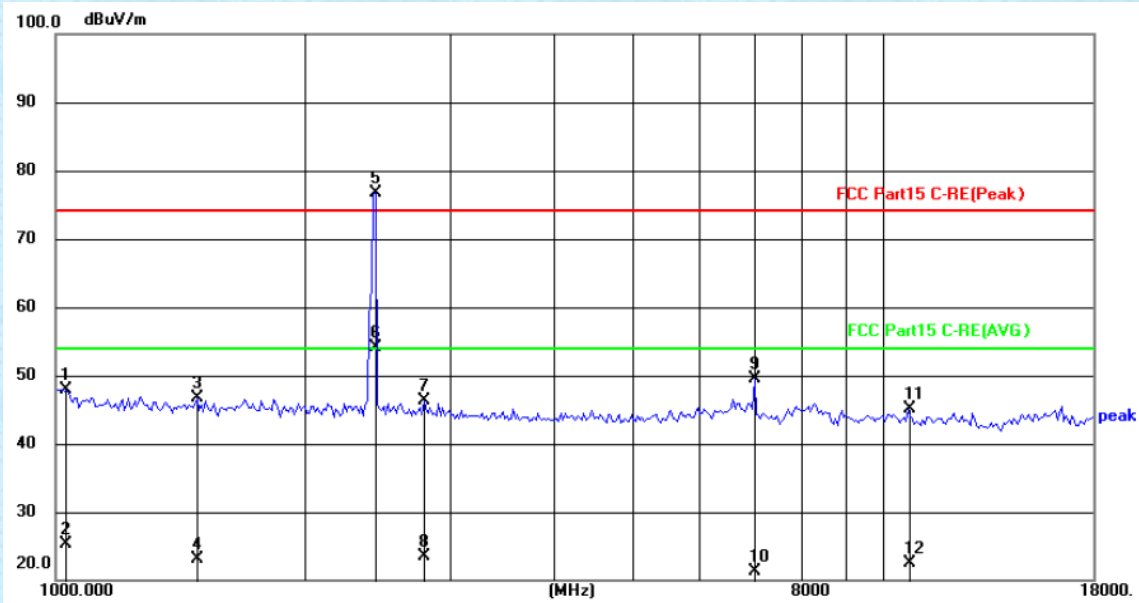
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1029.385	47.14	1.86	49.00	74.00	-25.00	peak
2	1029.385	24.55	1.86	26.41	54.00	-27.59	AVG
3	1491.333	22.62	24.39	47.01	74.00	-26.99	peak
4	1491.333	-0.54	24.39	23.85	54.00	-30.15	AVG
5	2411.946	66.10	26.36	92.46	74.00	18.46	peak
6	2411.946	32.47	26.36	58.83	54.00	4.83	AVG
7	2820.253	19.69	27.08	46.77	74.00	-27.23	peak
8	2820.253	-2.65	27.08	24.43	54.00	-29.57	AVG
9	7002.185	14.19	35.80	49.99	74.00	-24.01	peak
10	7002.185	-14.43	35.80	21.37	54.00	-32.63	AVG
11	10144.496	5.76	39.30	45.06	74.00	-28.94	peak
12	10144.496	-16.73	39.30	22.57	54.00	-31.43	AVG

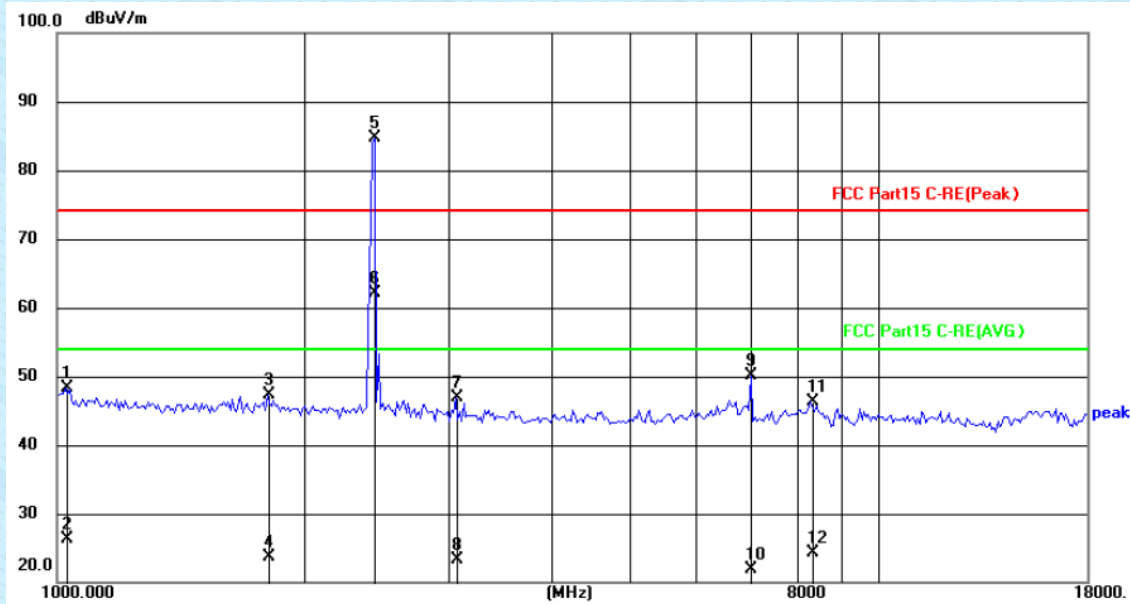
Test mode:	802.11g	Test channel:	Middle
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1029.385	46.12	1.86	47.98	74.00	-26.02	peak
2	1029.385	23.51	1.86	25.37	54.00	-28.63	AVG
3	1482.720	22.24	24.38	46.62	74.00	-27.38	peak
4	1482.720	-1.20	24.38	23.18	54.00	-30.82	AVG
5	2437.000	50.21	26.40	76.61	74.00	2.61	peak
6	2437.000	27.78	26.40	54.18	54.00	0.18	AVG
7	2787.770	19.32	27.02	46.34	74.00	-27.66	peak
8	2787.770	-3.50	27.02	23.52	54.00	-30.48	AVG
9	7002.185	13.80	35.80	49.60	74.00	-24.40	peak
10	7002.185	-14.41	35.80	21.39	54.00	-32.61	AVG
11	10749.450	5.43	39.72	45.15	74.00	-28.85	peak
12	10749.450	-17.24	39.72	22.48	54.00	-31.52	AVG

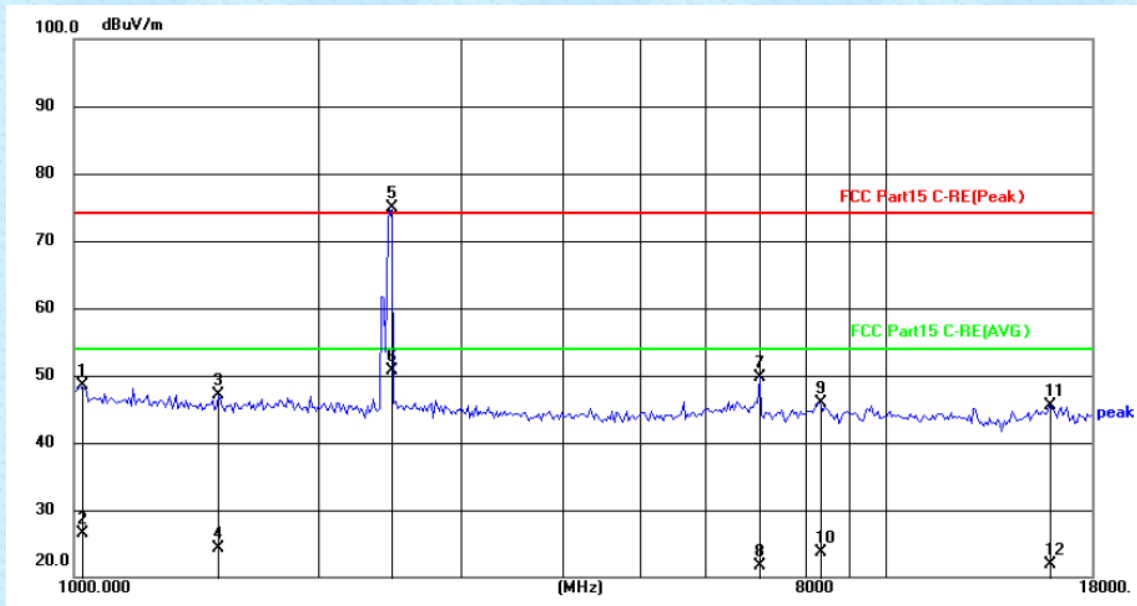
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1023.440	46.50	1.76	48.26	74.00	-25.74	peak
2	1023.440	24.52	1.76	26.28	54.00	-27.72	AVG
3	1805.464	22.13	25.12	47.25	74.00	-26.75	peak
4	1805.464	-1.41	25.12	23.71	54.00	-30.29	AVG
5	2437.000	58.25	26.40	84.65	74.00	10.65	peak
6	2437.000	35.78	26.40	62.18	54.00	8.18	AVG
7	3058.484	19.47	27.51	46.98	74.00	-27.02	peak
8	3058.484	-4.14	27.51	23.37	54.00	-30.63	AVG
9	7002.185	14.30	35.80	50.10	74.00	-23.90	peak
10	7002.185	-13.95	35.80	21.85	54.00	-32.15	AVG
11	8282.955	9.64	36.73	46.37	74.00	-27.63	peak
12	8282.955	-12.37	36.73	24.36	54.00	-29.64	AVG

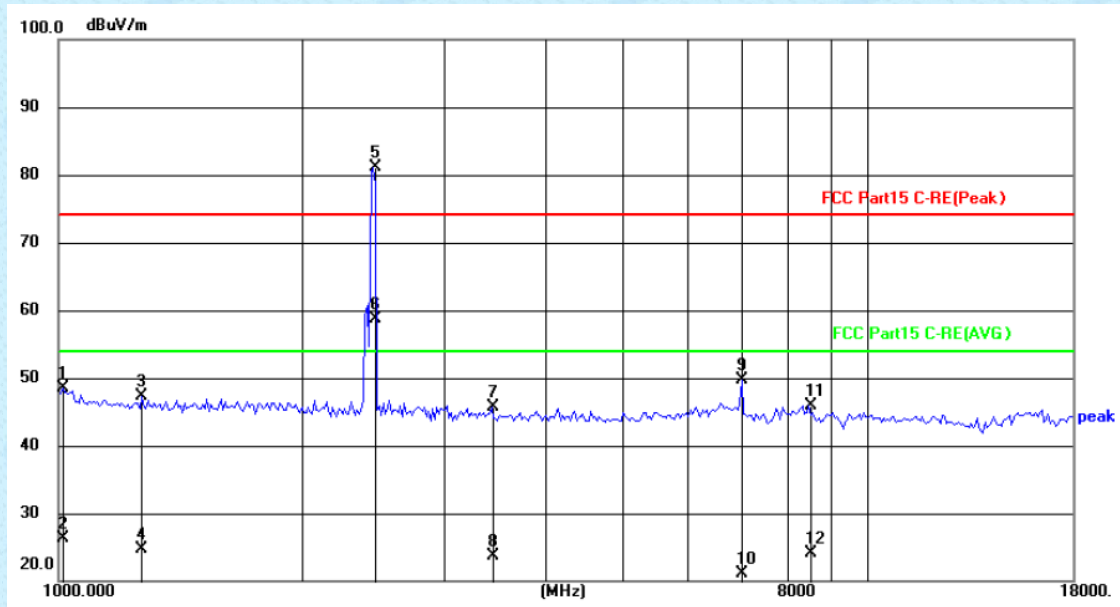
Test mode:	802.11g	Test channel:	Highest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1017.529	46.85	1.67	48.52	74.00	-25.48	peak
2	1017.529	24.81	1.67	26.48	54.00	-27.52	AVG
3	1508.710	22.73	24.41	47.14	74.00	-26.86	peak
4	1508.710	-0.15	24.41	24.26	54.00	-29.74	AVG
5	2462.000	48.56	26.44	75.00	74.00	1.00	peak
6	2462.000	24.35	26.44	50.79	54.00	-3.21	AVG
7	7002.185	13.82	35.80	49.62	74.00	-24.38	peak
8	7002.185	-14.02	35.80	21.78	54.00	-32.22	AVG
9	8282.955	9.12	36.73	45.85	74.00	-28.15	peak
10	8282.955	-13.11	36.73	23.62	54.00	-30.38	AVG
11	16031.013	7.45	38.11	45.56	74.00	-28.44	peak
12	16031.013	-16.12	38.11	21.99	54.00	-32.01	AVG

**Vertical:**

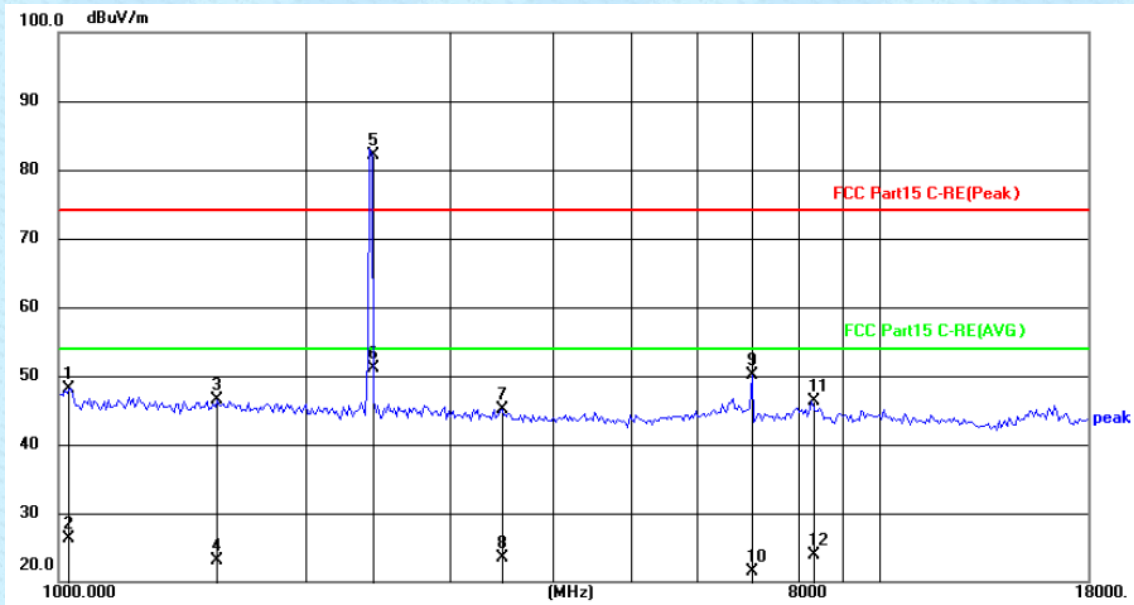


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1011.652	46.96	1.58	48.54	74.00	-25.46	peak
2	1011.652	24.81	1.58	26.39	54.00	-27.61	AVG
3	1268.056	23.16	24.17	47.33	74.00	-26.67	peak
4	1268.056	0.61	24.17	24.78	54.00	-29.22	AVG
5	2462.000	54.61	26.44	81.05	74.00	7.05	peak
6	2462.000	32.25	26.44	58.69	54.00	4.69	AVG
7	3434.138	17.51	28.18	45.69	74.00	-28.31	peak
8	3434.138	-4.44	28.18	23.74	54.00	-30.26	AVG
9	7002.185	13.94	35.80	49.74	74.00	-24.26	peak
10	7002.185	-14.64	35.80	21.16	54.00	-32.84	AVG
11	8477.106	9.25	36.75	46.00	74.00	-28.00	peak
12	8477.106	-12.64	36.75	24.11	54.00	-29.89	AVG



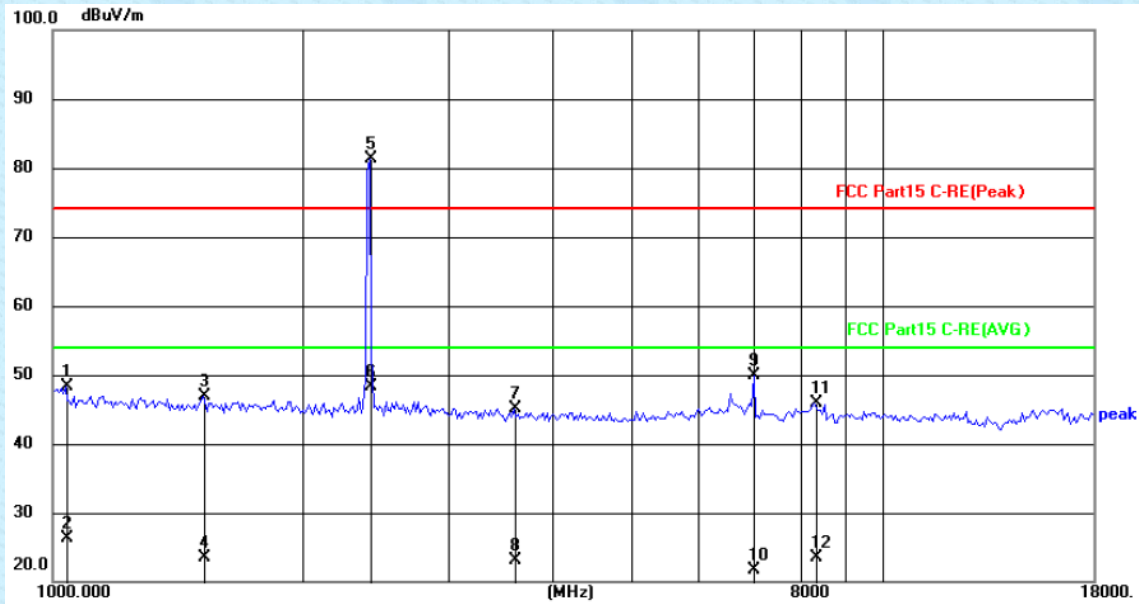
Test mode:	802.11n(HT20)	Test channel:	Lowest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1029.385	46.33	1.86	48.19	74.00	-25.81	peak
2	1029.385	24.45	1.86	26.31	54.00	-27.69	AVG
3	1562.066	22.03	24.46	46.49	74.00	-27.51	peak
4	1562.066	-1.31	24.46	23.15	54.00	-30.85	AVG
5	2411.946	55.82	26.36	82.18	74.00	8.18	peak
6	2411.946	24.72	26.36	51.08	54.00	-2.92	AVG
7	3474.152	16.83	28.25	45.08	74.00	-28.92	peak
8	3474.152	-4.84	28.25	23.41	54.00	-30.59	AVG
9	7002.185	14.32	35.80	50.12	74.00	-23.88	peak
10	7002.185	-14.32	35.80	21.48	54.00	-32.52	AVG
11	8282.955	9.67	36.73	46.40	74.00	-27.60	peak
12	8282.955	-12.86	36.73	23.87	54.00	-30.13	AVG

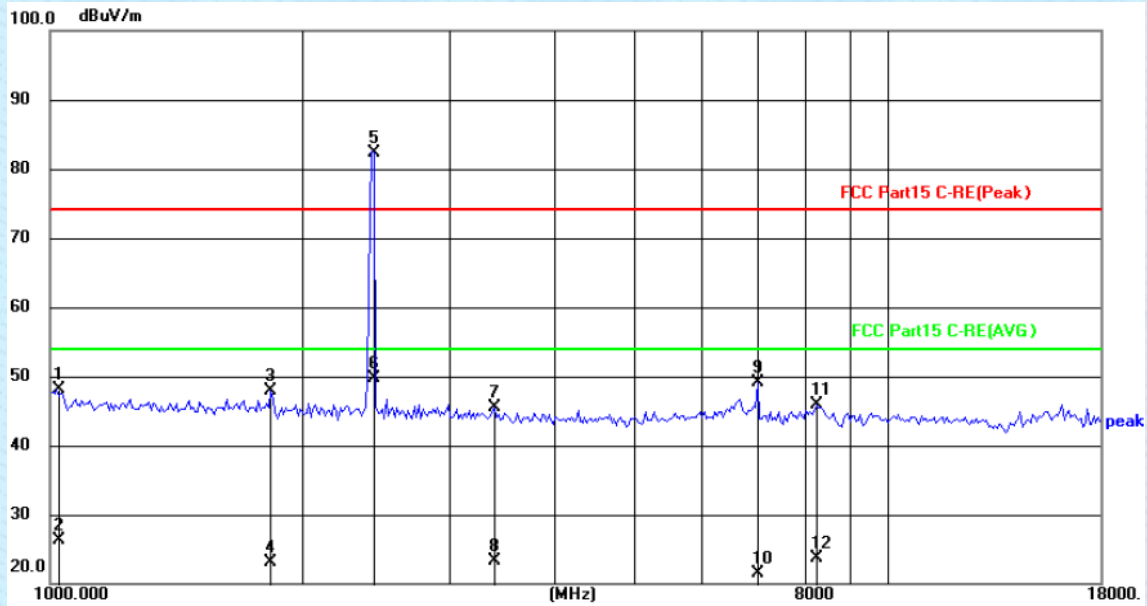
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1035.365	46.39	1.95	48.34	74.00	-25.66	peak
2	1035.365	24.29	1.95	26.24	54.00	-27.76	AVG
3	1517.475	22.40	24.42	46.82	74.00	-27.18	peak
4	1517.475	-0.99	24.42	23.43	54.00	-30.57	AVG
5	2411.946	55.01	26.36	81.37	74.00	7.37	peak
6	2411.946	22.01	26.36	48.37	54.00	-5.63	AVG
7	3597.016	16.77	28.42	45.19	74.00	-28.81	peak
8	3597.016	-5.40	28.42	23.02	54.00	-30.98	AVG
9	7002.185	14.03	35.80	49.83	74.00	-24.17	peak
10	7002.185	-14.17	35.80	21.63	54.00	-32.37	AVG
11	8282.955	9.09	36.73	45.82	74.00	-28.18	peak
12	8282.955	-13.16	36.73	23.57	54.00	-30.43	AVG

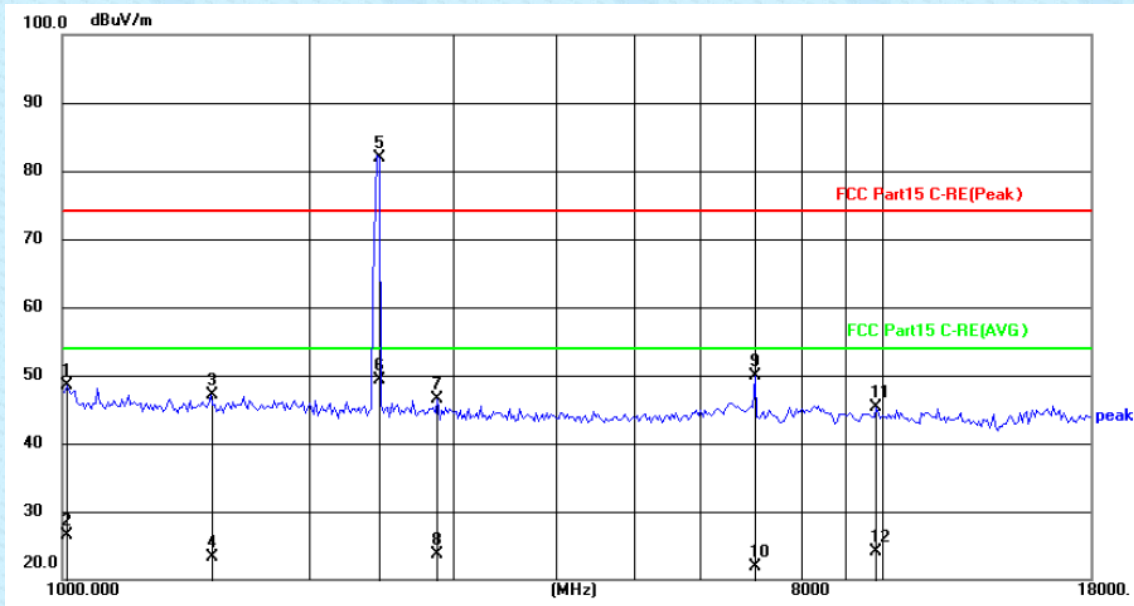
Test mode:	802.11n(HT20)	Test channel:	Middle
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1017.529	46.44	1.67	48.11	74.00	-25.89	peak
2	1017.529	24.71	1.67	26.38	54.00	-27.62	AVG
3	1837.111	22.76	25.21	47.97	74.00	-26.03	peak
4	1837.111	-2.04	25.21	23.17	54.00	-30.83	AVG
5	2437.000	55.88	26.40	82.28	74.00	8.28	peak
6	2437.000	23.36	26.40	49.76	54.00	-4.24	AVG
7	3394.584	17.30	28.11	45.41	74.00	-28.59	peak
8	3394.584	-4.74	28.11	23.37	54.00	-30.63	AVG
9	7002.185	13.33	35.80	49.13	74.00	-24.87	peak
10	7002.185	-14.27	35.80	21.53	54.00	-32.47	AVG
11	8235.116	9.26	36.72	45.98	74.00	-28.02	peak
12	8235.116	-12.99	36.72	23.73	54.00	-30.27	AVG

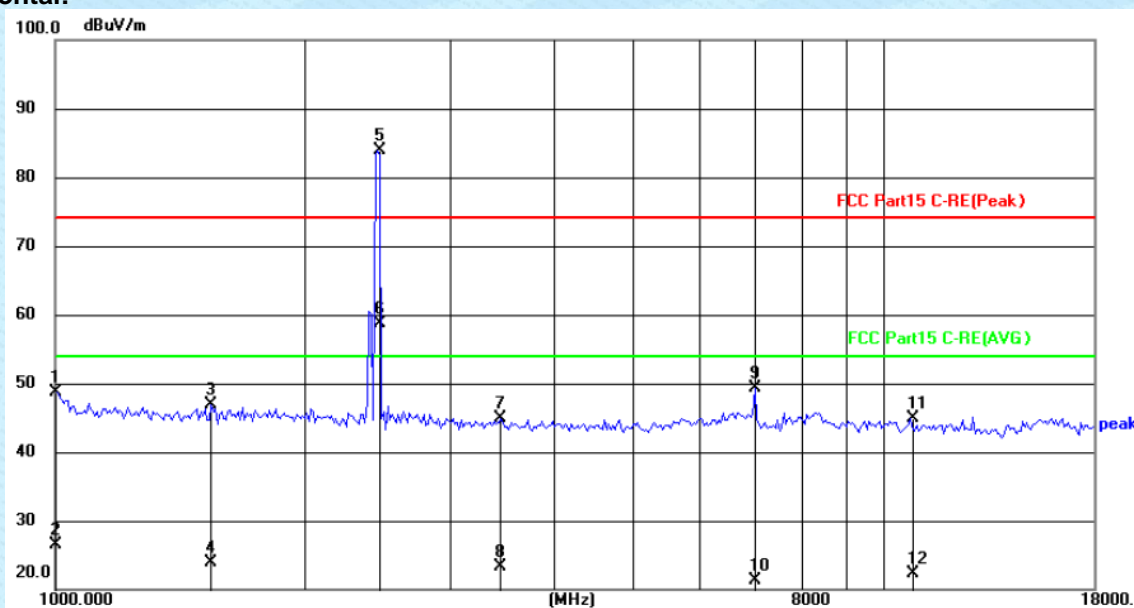
**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1011.652	46.87	1.58	48.45	74.00	-25.55	peak
2	1011.652	24.96	1.58	26.54	54.00	-27.46	AVG
3	1517.475	22.71	24.42	47.13	74.00	-26.87	peak
4	1517.475	-1.09	24.42	23.33	54.00	-30.67	AVG
5	2437.000	55.42	26.40	81.82	74.00	7.82	peak
6	2437.000	22.97	26.40	49.37	54.00	-4.63	AVG
7	2869.689	19.30	27.17	46.47	74.00	-27.53	peak
8	2869.689	-3.41	27.17	23.76	54.00	-30.24	AVG
9	7002.185	14.06	35.80	49.86	74.00	-24.14	peak
10	7002.185	-13.98	35.80	21.82	54.00	-32.18	AVG
11	9854.908	6.45	38.85	45.30	74.00	-28.70	peak
12	9854.908	-14.66	38.85	24.19	54.00	-29.81	AVG

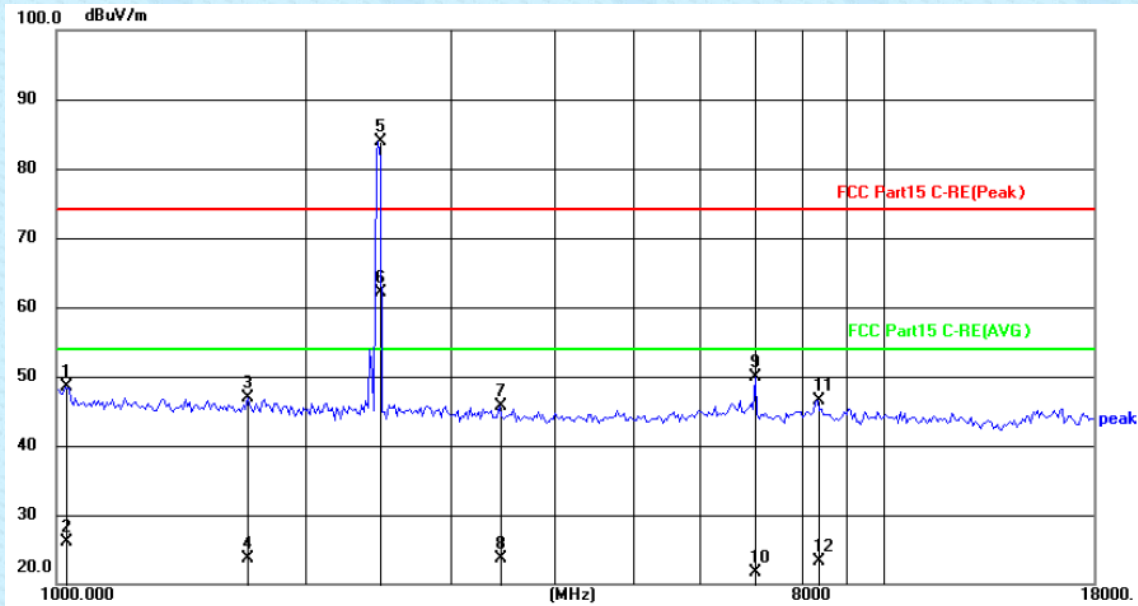
Test mode:	802.11n(HT20)	Test channel:	Highest
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**Horizontal:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1005.809	47.22	1.49	48.71	74.00	-25.29	peak
2	1005.809	25.02	1.49	26.51	54.00	-27.49	AVG
3	1544.074	22.42	24.44	46.86	74.00	-27.14	peak
4	1544.074	-0.58	24.44	23.86	54.00	-30.14	AVG
5	2462.000	57.51	26.44	83.95	74.00	9.95	peak
6	2462.000	32.26	26.44	58.70	54.00	4.70	AVG
7	3454.087	16.75	28.22	44.97	74.00	-29.03	peak
8	3454.087	-4.98	28.22	23.24	54.00	-30.76	AVG
9	7002.185	13.43	35.80	49.23	74.00	-24.77	peak
10	7002.185	-14.43	35.80	21.37	54.00	-32.63	AVG
11	10811.895	5.04	39.77	44.81	74.00	-29.19	peak
12	10811.895	-17.39	39.77	22.38	54.00	-31.62	AVG

**Vertical:**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1023.440	46.83	1.76	48.59	74.00	-25.41	peak
2	1023.440	24.41	1.76	26.17	54.00	-27.83	AVG
3	1703.856	22.05	24.81	46.86	74.00	-27.14	peak
4	1703.856	-1.07	24.81	23.74	54.00	-30.26	AVG
5	2462.000	57.43	26.44	83.87	74.00	9.87	peak
6	2462.000	35.58	26.44	62.02	54.00	8.02	AVG
7	3434.138	17.45	28.18	45.63	74.00	-28.37	peak
8	3434.138	-4.46	28.18	23.72	54.00	-30.28	AVG
9	7002.185	14.03	35.80	49.83	74.00	-24.17	peak
10	7002.185	-14.19	35.80	21.61	54.00	-32.39	AVG
11	8331.072	9.75	36.73	46.48	74.00	-27.52	peak
12	8331.072	-13.36	36.73	23.37	54.00	-30.63	AVG

*Remark:*

- 1 Final Level =Receiver Read level + Antenna Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

## **8 Test Setup Photo**

Reference to the **appendix I** for details.

## **9 EUT Constructional Details**

Reference to the **appendix II** and **appendix III** for details.

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