

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:**

Smart Camera

Model No.:

Z4

Add. Model No.:

Z5, Z6, Z7, Z8, Z9, Z10, G2, G6, G7, G8, G9, K7, C1, R3, R4

Trade Mark:

N/A

FCC ID:

2APD7-Z4

Applicable standards:

FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt:

2022-06-24

Date of Test:

2022-06-24 to 2022-08-12

Date of report issued:

2022-08-15

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 Ver

Report No.	Version No.	Date	Description
GTS202208000102F01	00	2022-08-15	Original

• GTS

78 GTS

GTS GTS GTS GTS GTS

Project Engine

che

Date

2022-06-15

Review

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 TEST SUMMARY.....	4
5 GENERAL INFORMATION.....	5
5.1 GENERAL DESCRIPTION OF EUT.....	5
5.2 TEST MODE.....	6
5.3 DESCRIPTION OF SUPPORT UNITS.....	6
5.4 DEVIATION FROM STANDARDS.....	6
5.5 ABNORMALITIES FROM STANDARD CONDITIONS.....	6
5.6 TEST FACILITY.....	6
5.7 TEST LOCATION.....	6
5.8 ADDITIONAL INSTRUCTIONS.....	6
6 TEST INSTRUMENTS LIST.....	7
7 TEST RESULTS AND MEASUREMENT DATA.....	9
7.1 ANTENNA REQUIREMENT.....	9
7.2 CONDUCTED EMISSIONS.....	10
7.3 CONDUCTED PEAK OUTPUT POWER.....	13
7.4 CHANNEL BANDWIDTH & 99% OCCUPY BANDWIDTH.....	16
7.5 POWER SPECTRAL DENSITY.....	19
7.6 BAND EDGES.....	22
7.6.1 <i>Conducted Emission Method</i>	22
7.6.2 <i>Radiated Emission Method</i>	24
7.7 SPURIOUS EMISSION.....	37
7.7.1 <i>Conducted Emission Method</i>	37
7.7.2 <i>Radiated Emission Method</i>	40
8 TEST SETUP PHOTO.....	62
9 EUT CONSTRUCTIONAL DETAILS.....	62

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	Pass
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

No.	Item	Measurement Uncertainty
1	Radio Frequency	1×10^{-7}
2	Duty Cycle	0.37%
3	Occupied Bandwidth	2.8dB
4	RF Conducted Power	0.75dB
5	RF Power Density	3dB
6	Conducted Spurious Emissions	2.58dB
7	AC Power Line Conducted Emission	3.44dB (0.15MHz ~ 30MHz) 3.1dB (9kHz-30MHz) 3.8039dB (30MHz-200MHz)
8	Radiated Spurious Emission Test	3.9679dB (200MHz-1GHz) 4.29dB (1GHz-18GHz) 3.30dB (18GHz-40GHz)

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:	Smart Camera
Model No.:	Z4
Add. Model No.:	Z5, Z6, Z7, Z8, Z9, Z10, G2, G6, G7, G8, G9, K7, C1, R3, R4
Serial No.:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Test sample(s) ID:	GTSL202208000102-1
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): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PCB Antenna
Antenna gain:	3.0dBi
Power supply:	Input : 100-240Vac, 50/60Hz,0.2A

Note:

The product (Smart Camera) models (Z4) and models (Z5, Z6, Z7, Z8, Z9, Z10, G2, G6, G7, G8, G9, K7, C1, R3, R4) 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		

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
<p><i>Remark: During the test, the dutycycle >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></p>	

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.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

- **FCC—Registration No.: 381383**

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.

- **IC —Registration No.: 9079A**

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

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

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

5.8 Additional Instructions

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

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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	April. 22 2022	April. 21 2023
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB918	GTS640	March. 21 2022	March. 20 2023
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 12 2022	June. 11 2023
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 23 2022	June. 22 2023
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	April. 22 2022	April. 21 2023
9	Coaxial Cable	GTS	N/A	GTS211	April. 22 2022	April. 21 2023
10	Coaxial cable	GTS	N/A	GTS210	April. 22 2022	April. 21 2023
11	Coaxial Cable	GTS	N/A	GTS212	April. 22 2022	April. 21 2023
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April. 22 2022	April. 21 2023
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 23 2022	June. 22 2023
14	Band filter	Amindeon	82346	GTS219	June. 23 2022	June. 22 2023
15	Power Meter	Anritsu	ML2495A	GTS540	June. 23 2022	June. 22 2023
16	Power Sensor	Anritsu	MA2411B	GTS541	June. 23 2022	June. 22 2023
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April. 22 2022	April. 21 2023
18	Splitter	Agilent	11636B	GTS237	June. 23 2022	June. 22 2023
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 30 2021	Nov. 29 2022
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April. 22 2022	April. 21 2023
21	Breitband hornantenna	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. 23 2022	June. 22 2023
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April. 22 2022	April. 21 2023

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	April. 22 2022	April. 21 2023
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April. 24 2022	April. 23 2023
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April. 22 2022	April. 21 2023
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April. 22 2022	April. 21 2023
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April. 22 2022	April. 21 2023
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April. 22 2022	April. 21 2023
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April. 22 2022	April. 21 2023
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April. 22 2022	April. 21 2023

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	April. 25 2022	April. 24 2023
2	Barometer	ChangChun	DYM3	GTS255	June. 23 2022	June. 22 2023

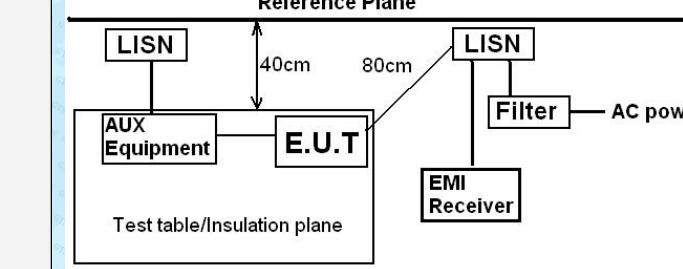
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement:	
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(c) (1)(i) requirement: (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.	

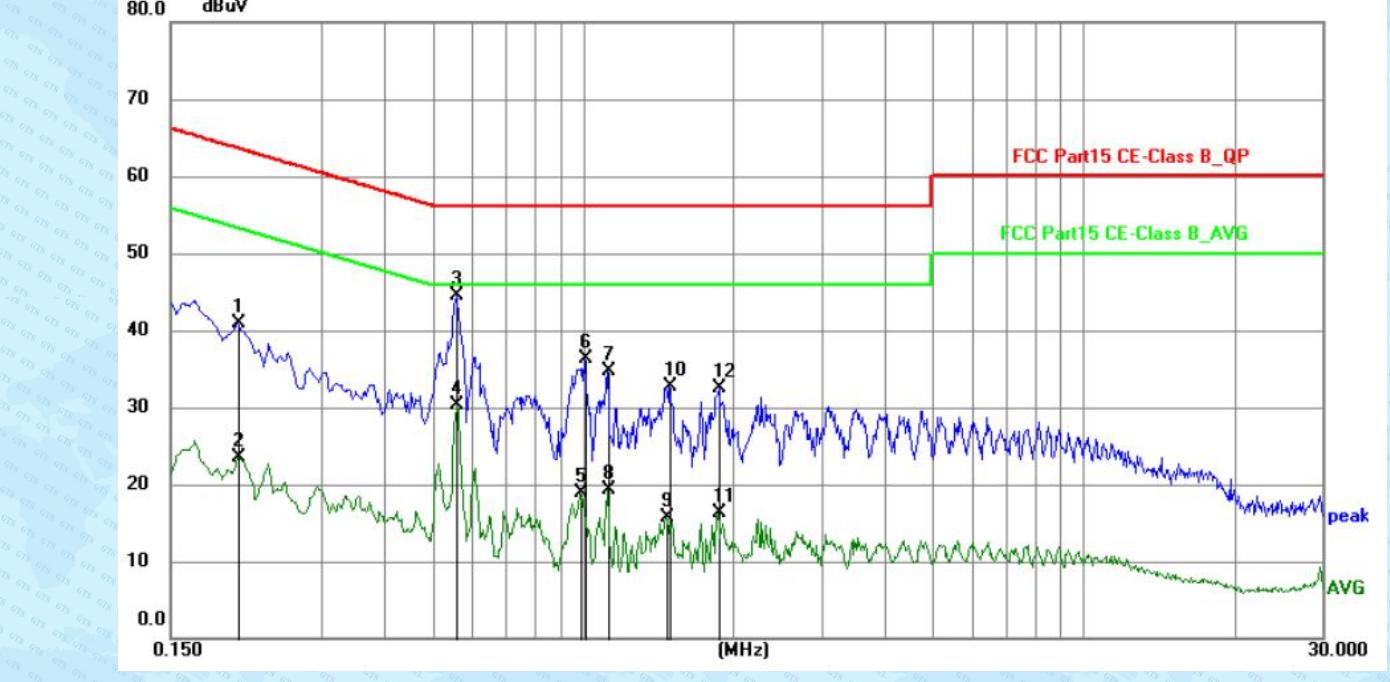
EUT Antenna:
The antennas are PCB Antenna, the best case gain of the antennas are 3.0dBi, reference to the appendix III for details.

7.2 Conducted Emissions

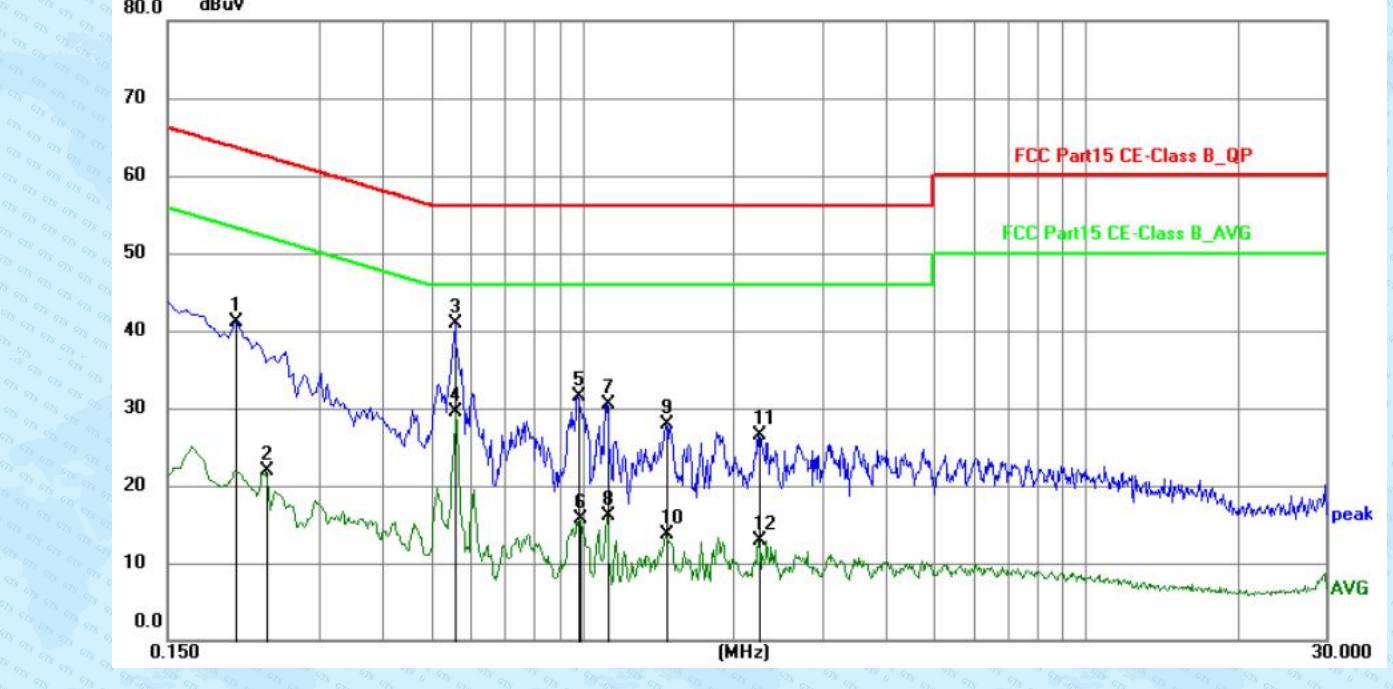
Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	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.																	
Test setup:	 <p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.2 for details																
Test environment:	Temp.:	26.4°C	Humid.:	45%	Press.:	1010mbar											
Test voltage:	AC 120V,60HZ																
Test results:	Pass																

Measurement data

Line:

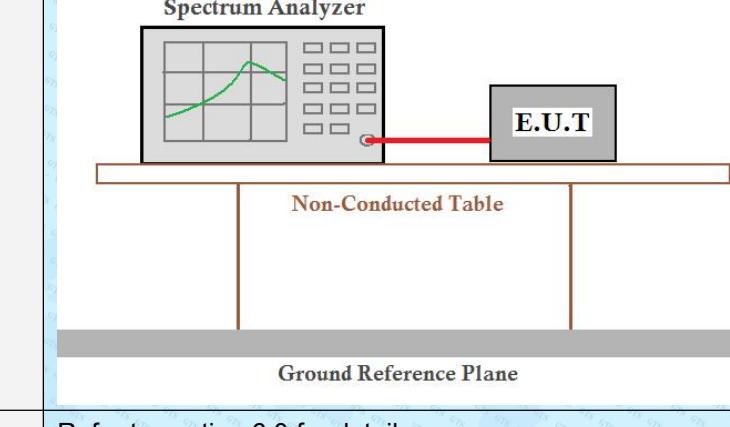


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2040	31.09	9.75	40.84	63.45	-22.61	QP	P
2	0.2040	13.75	9.75	23.50	53.45	-29.95	AVG	P
3	0.5595	34.77	9.71	44.48	56.00	-11.52	QP	P
4	0.5595	20.67	9.71	30.38	46.00	-15.62	AVG	P
5	0.9870	9.29	9.64	18.93	46.00	-27.07	AVG	P
6	1.0050	26.64	9.64	36.28	56.00	-19.72	QP	P
7	1.1174	24.99	9.65	34.64	56.00	-21.36	QP	P
8	1.1174	9.62	9.65	19.27	46.00	-26.73	AVG	P
9	1.4640	6.07	9.67	15.74	46.00	-30.26	AVG	P
10	1.4910	23.01	9.67	32.68	56.00	-23.32	QP	P
11	1.8600	6.63	9.71	16.34	46.00	-29.66	AVG	P
12	1.8735	22.82	9.71	32.53	56.00	-23.47	QP	P

Neutral:


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2040	31.43	9.76	41.19	63.45	-22.26	QP	P
2	0.2355	12.06	9.76	21.82	52.25	-30.43	AVG	P
3	0.5595	31.22	9.70	40.92	56.00	-15.08	QP	P
4	0.5595	19.81	9.70	29.51	46.00	-16.49	AVG	P
5	0.9825	21.77	9.64	31.41	56.00	-24.59	QP	P
6	0.9870	5.97	9.64	15.61	46.00	-30.39	AVG	P
7	1.1174	20.95	9.65	30.60	56.00	-25.40	QP	P
8	1.1174	6.45	9.65	16.10	46.00	-29.90	AVG	P
9	1.4685	18.24	9.67	27.91	56.00	-28.09	QP	P
10	1.4685	4.03	9.67	13.70	46.00	-32.30	AVG	P
11	2.2380	16.81	9.72	26.53	56.00	-29.47	QP	P
12	2.2380	3.26	9.72	12.98	46.00	-33.02	AVG	P

7.3 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

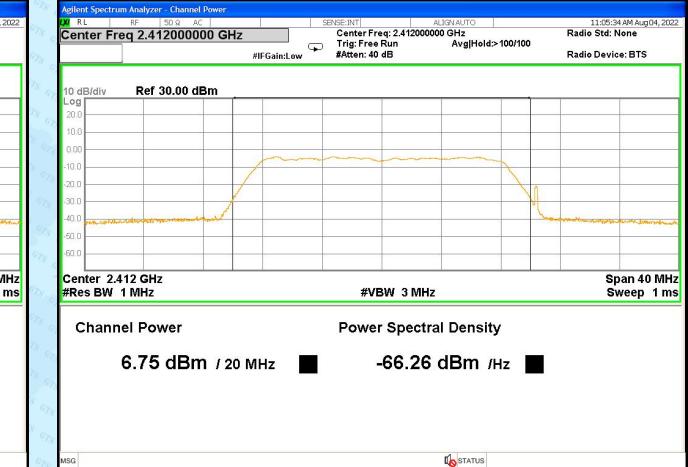
Test CH	Peak Output Power (dBm)			Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	7.29	6.75	7.56		
Middle	7.29	7.01	5.89	30.00	Pass
Highest	8.47	7.78	7.00		

Test plot as follows:

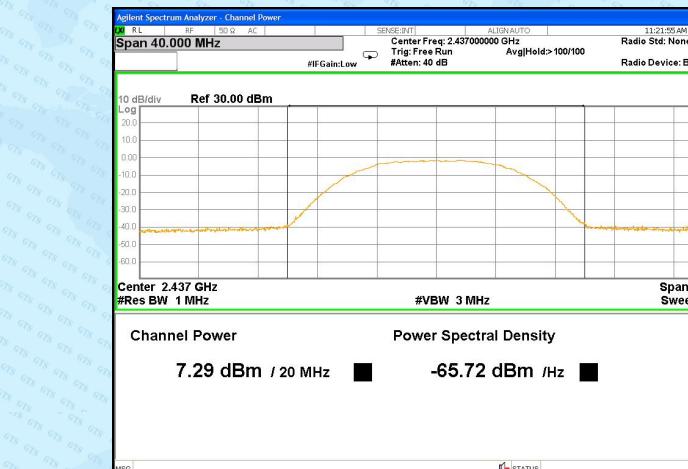
802.11b



802.11g



Lowest channel



Middle channel



Highest channel

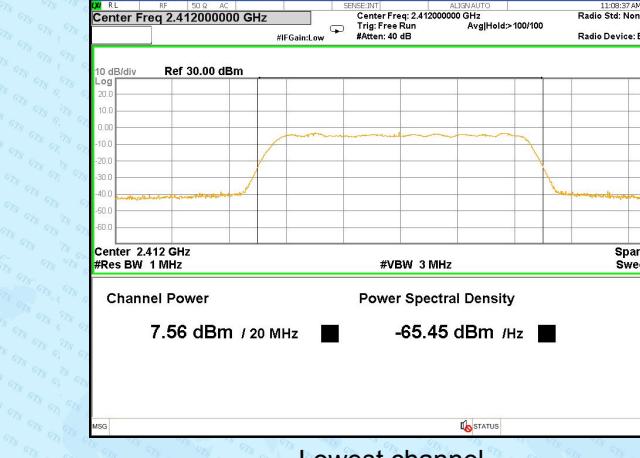
Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

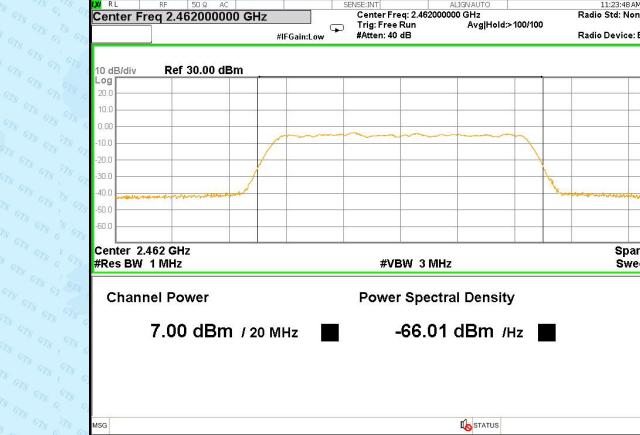
802.11n(HT20)



Lowest channel

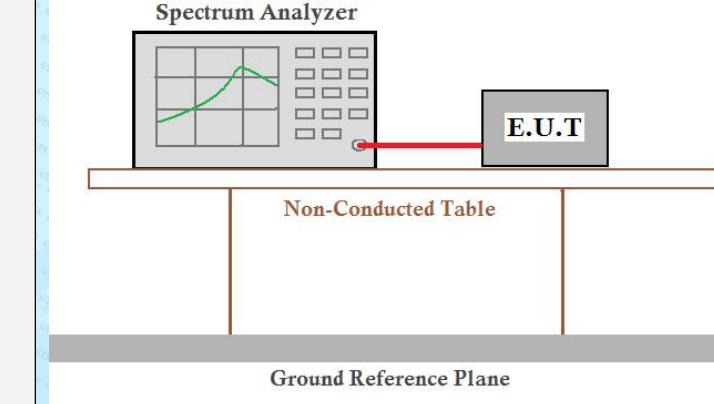


Middle channel



Highest channel

7.4 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:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

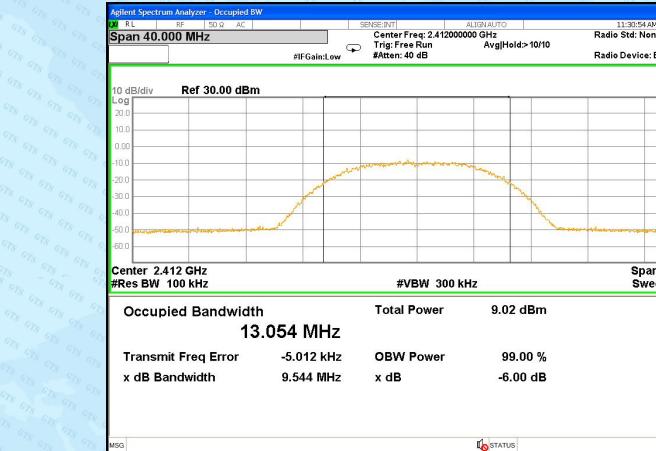
Measurement Data

Test CH	Channel Bandwidth (MHz)			Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	9.544	16.430	17.450		
Middle	9.656	16.630	15.720	>500	Pass
Highest	9.409	16.460	17.760		

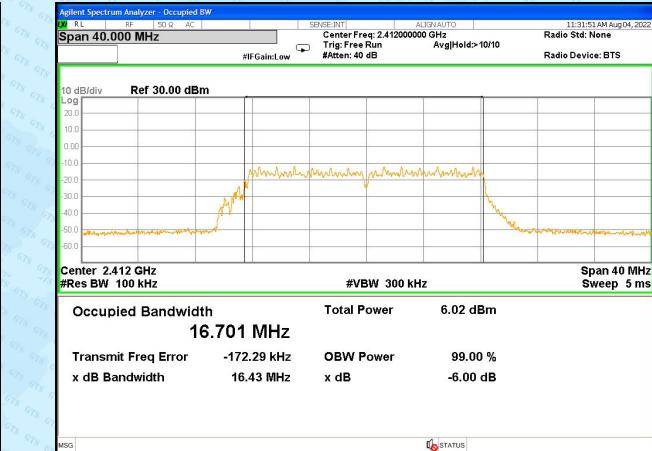
Test CH	99% Occupy Bandwidth (MHz)			Result
	802.11b	802.11g	802.11n(HT20)	
Lowest	13.054	16.701	17.617	
Middle	12.986	16.493	17.833	
Highest	13.020	16.402	17.562	Pass

Test plot as follows:

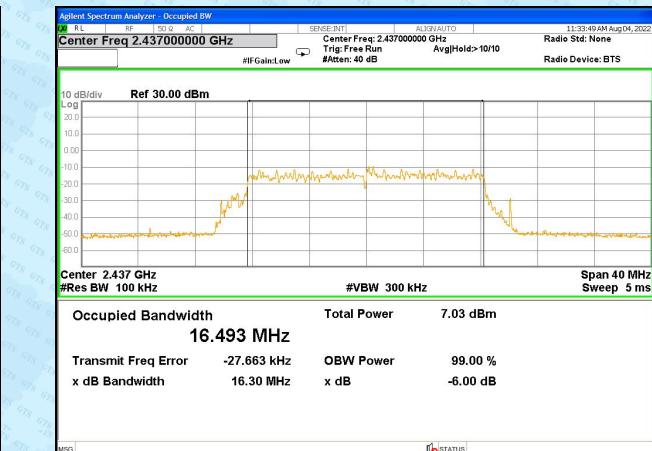
802.11b



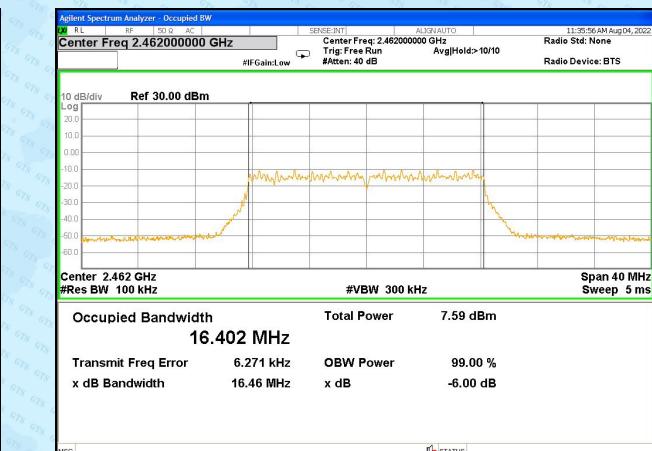
802.11g



Lowest channel

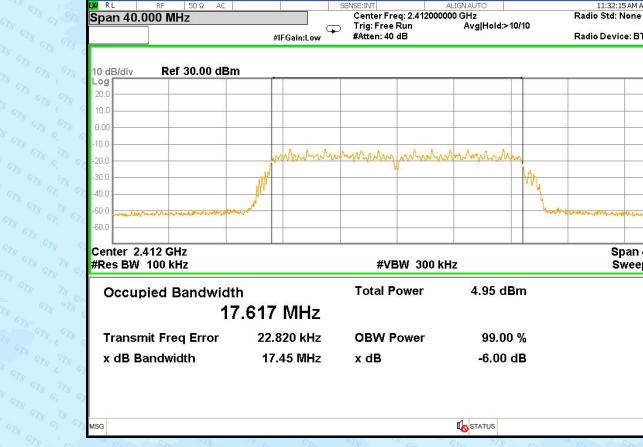


Middle channel

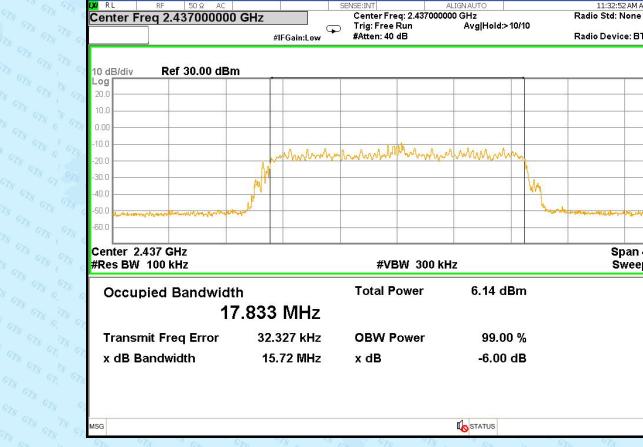


Highest channel

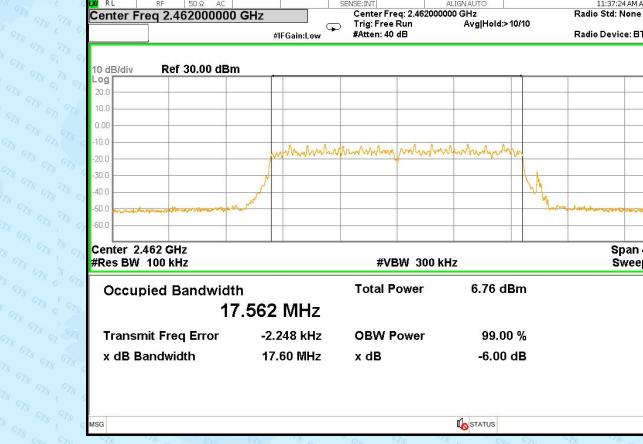
802.11n(HT20)



Lowest channel

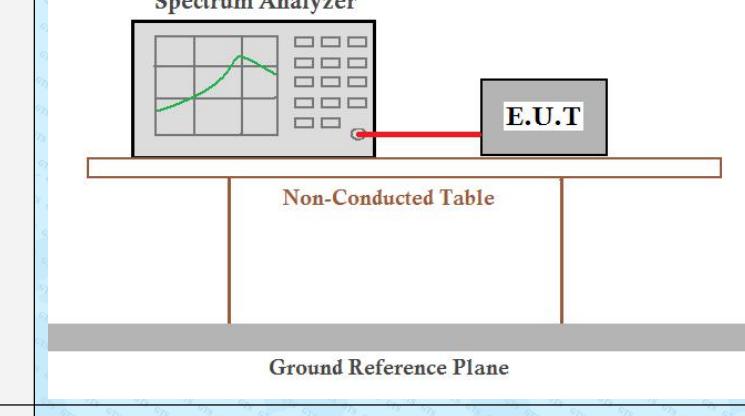


Middle channel



Highest channel

7.5 Power Spectral Density

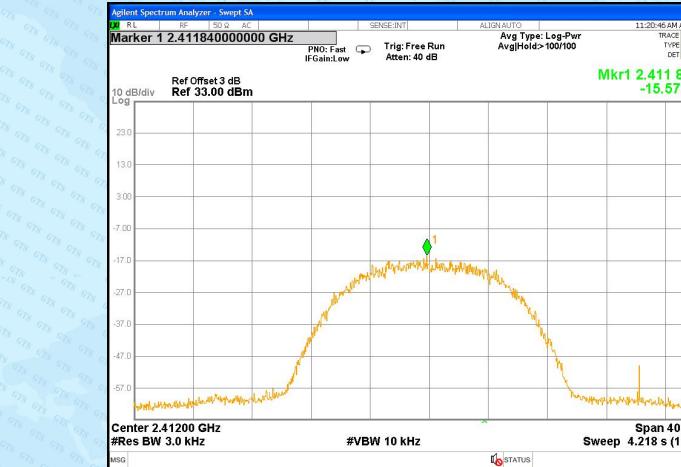
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

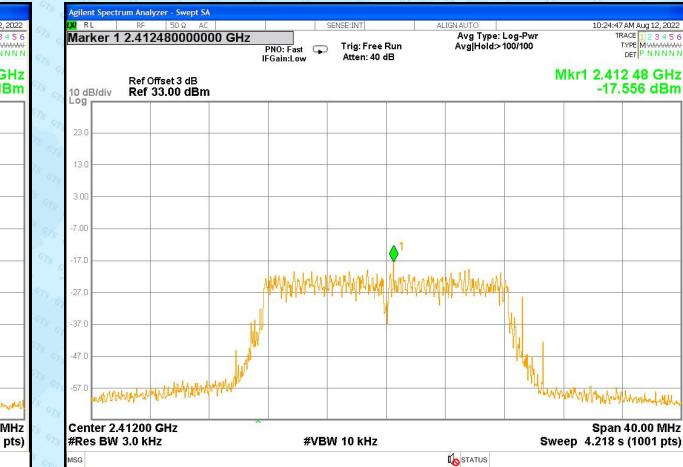
Test CH	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)		
Lowest	-15.573	-17.556	-23.009		
Middle	-15.100	-24.235	-25.301	8.00	Pass
Highest	-17.604	-18.940	-21.877		

Test plot as follows:

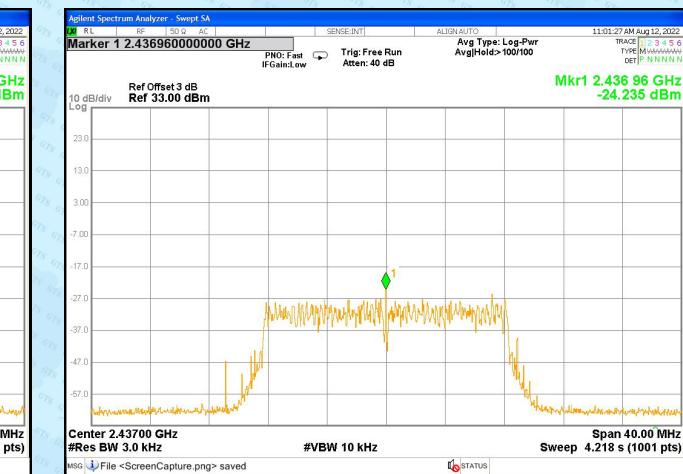
802.11b



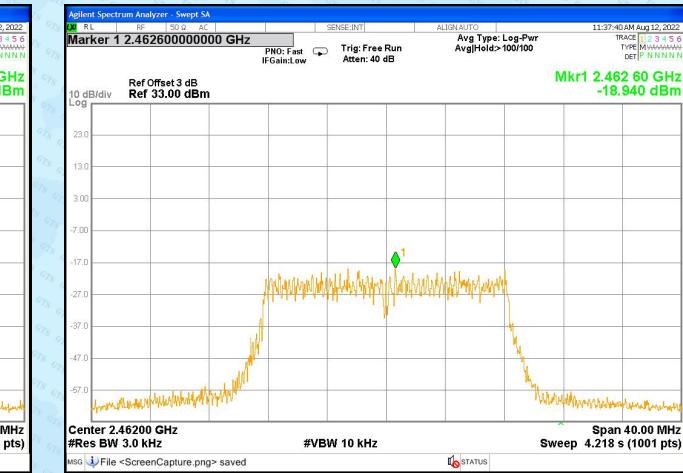
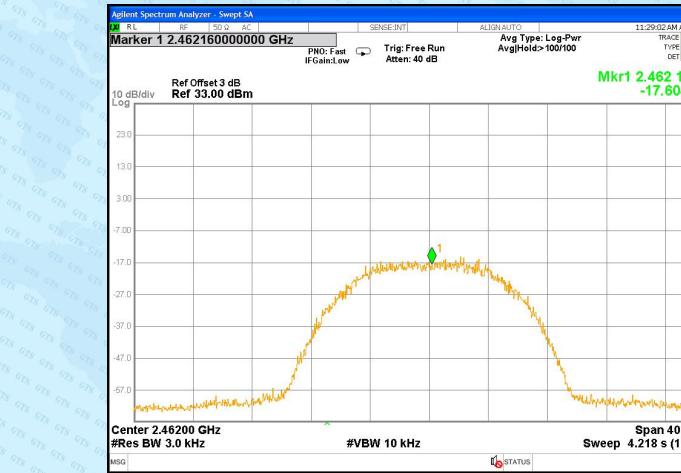
802.11g



Lowest channel

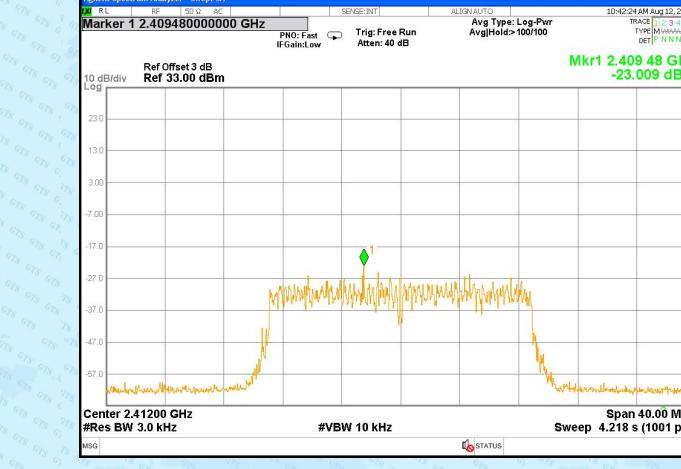


Middle channel

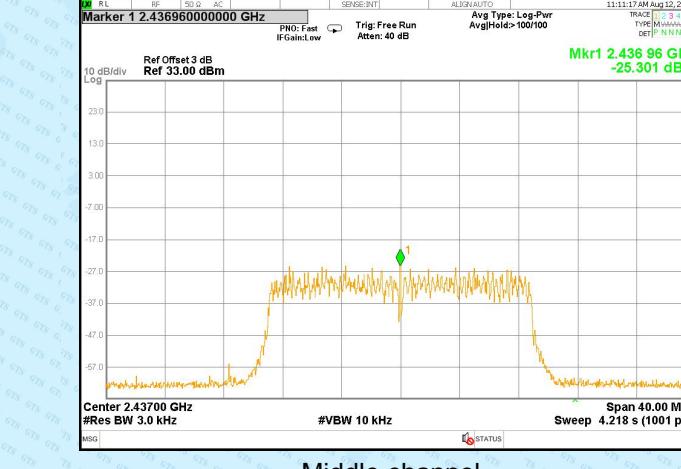


Highest channel

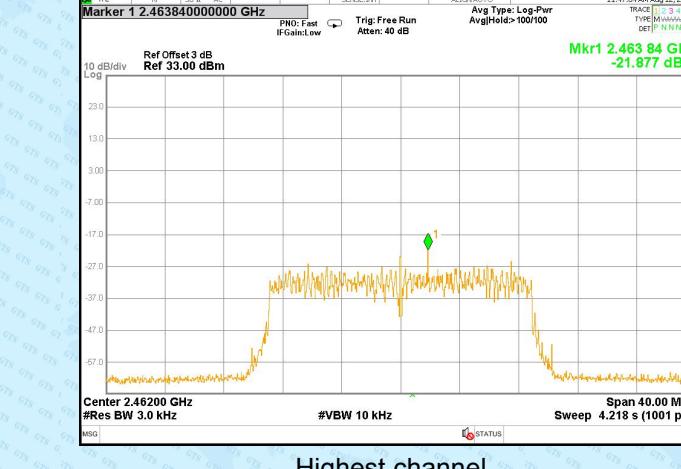
802.11n(HT20)



Lowest channel



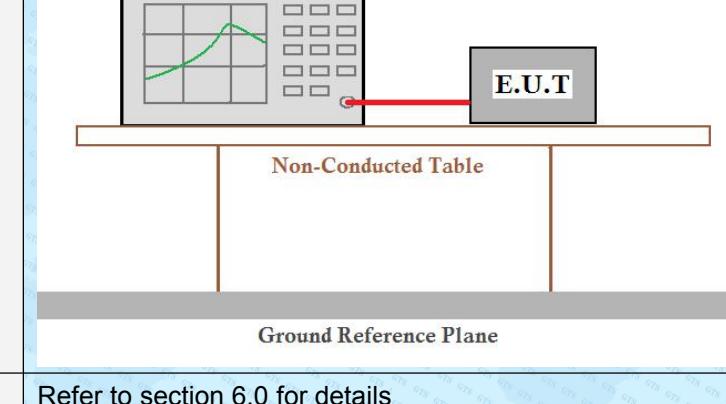
Middle channel



Highest channel

7.6 Band edges

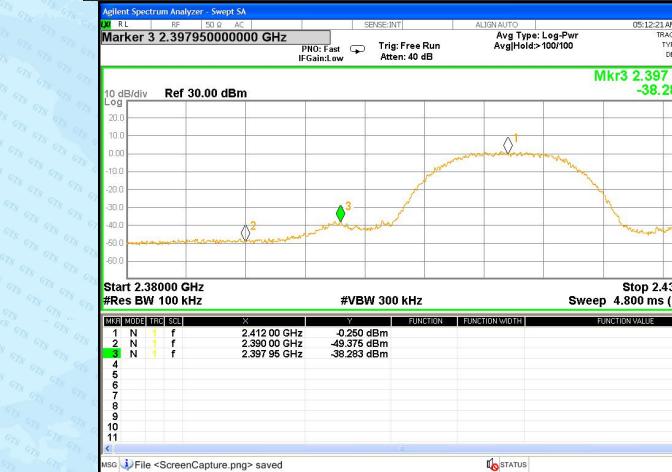
7.6.1 Conducted Emission Method

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 for conducted emission measurement. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a cable. The setup is placed on a Non-Conducted Table, which sits on a Ground Reference Plane.</p>

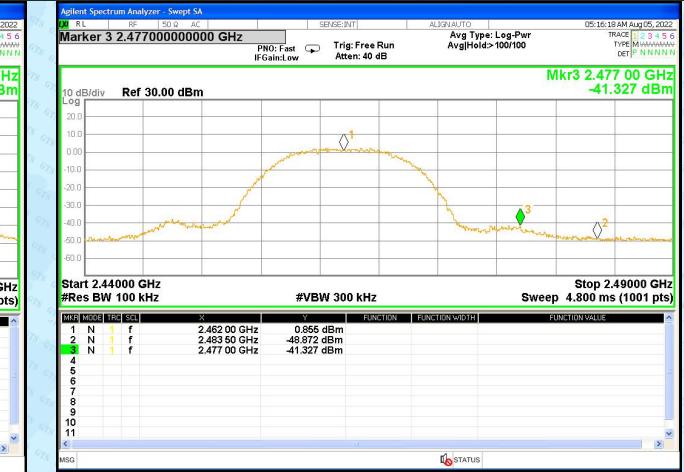
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:

Test mode:

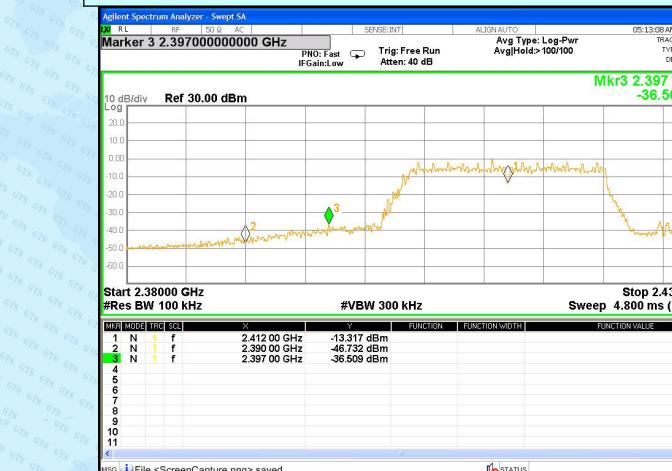


802.11b

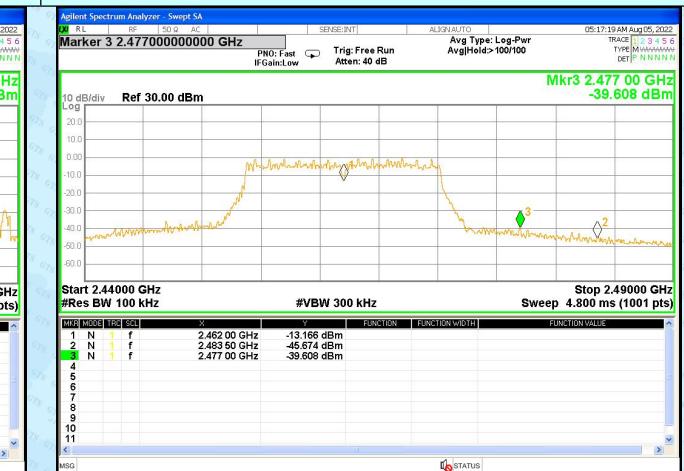


Lowest channel

Test mode:

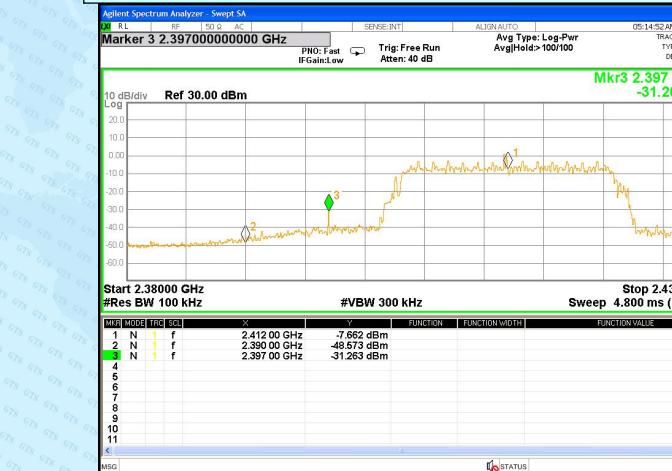


802.11g

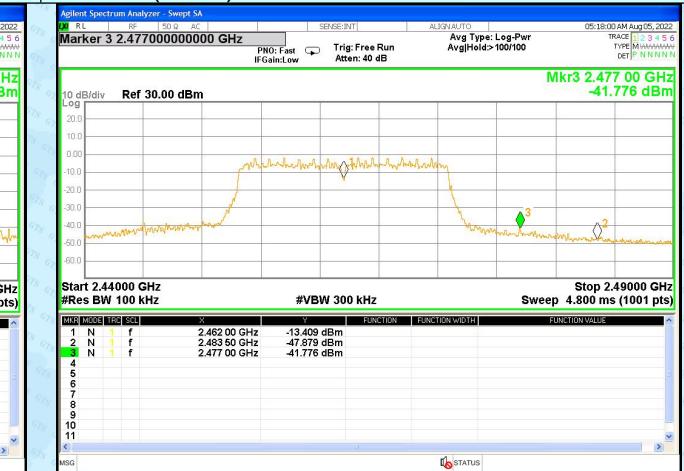


Lowest channel

Test mode:



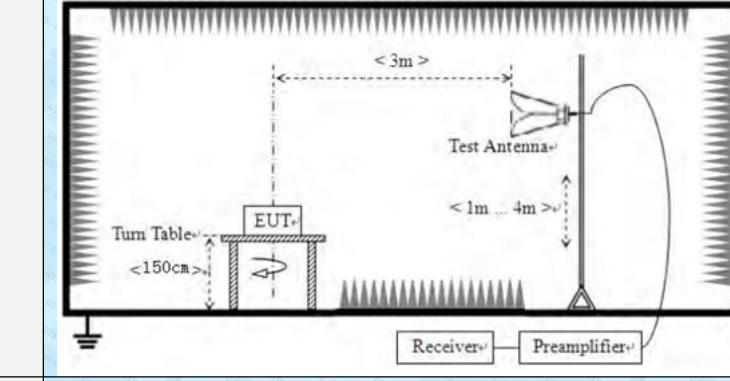
802.11n(HT20)



Lowest channel

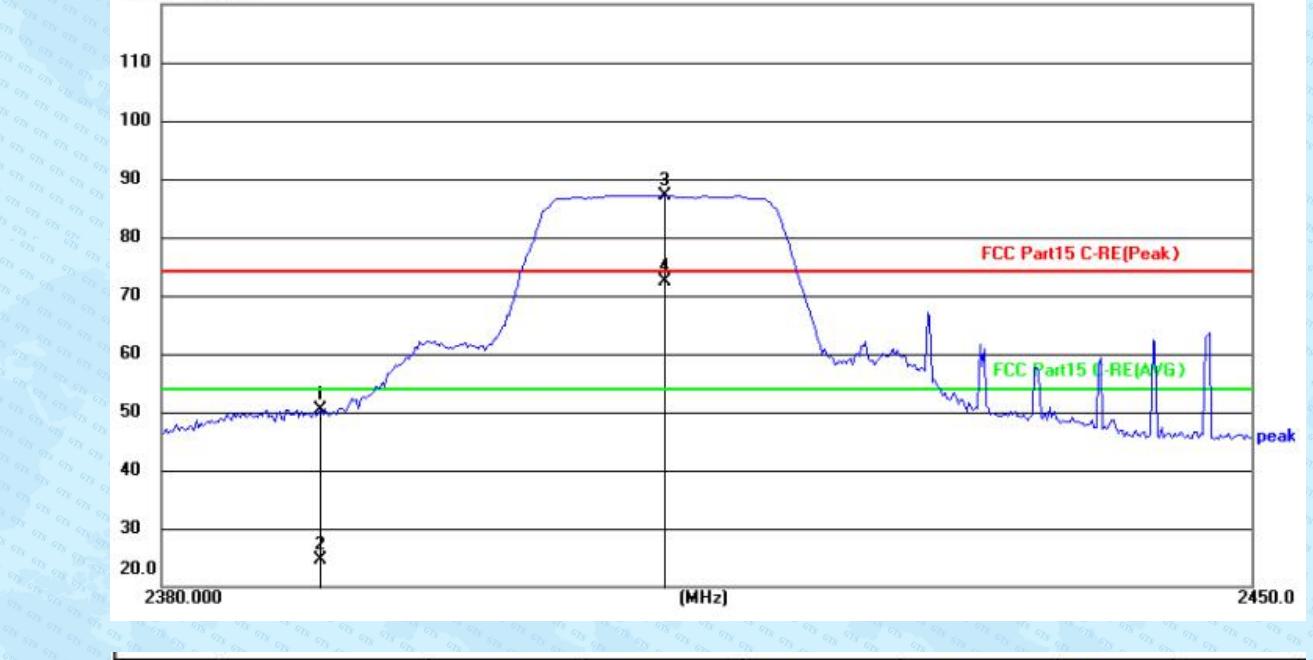
Highest channel

7.6.2 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				
Limit:	Frequency	Limit (dBuV/m @3m)		Value					
	Above 1GHz	54.00		Average					
Test setup:									
Test Procedure:	<ol style="list-style-type: none"> 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 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. 								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								

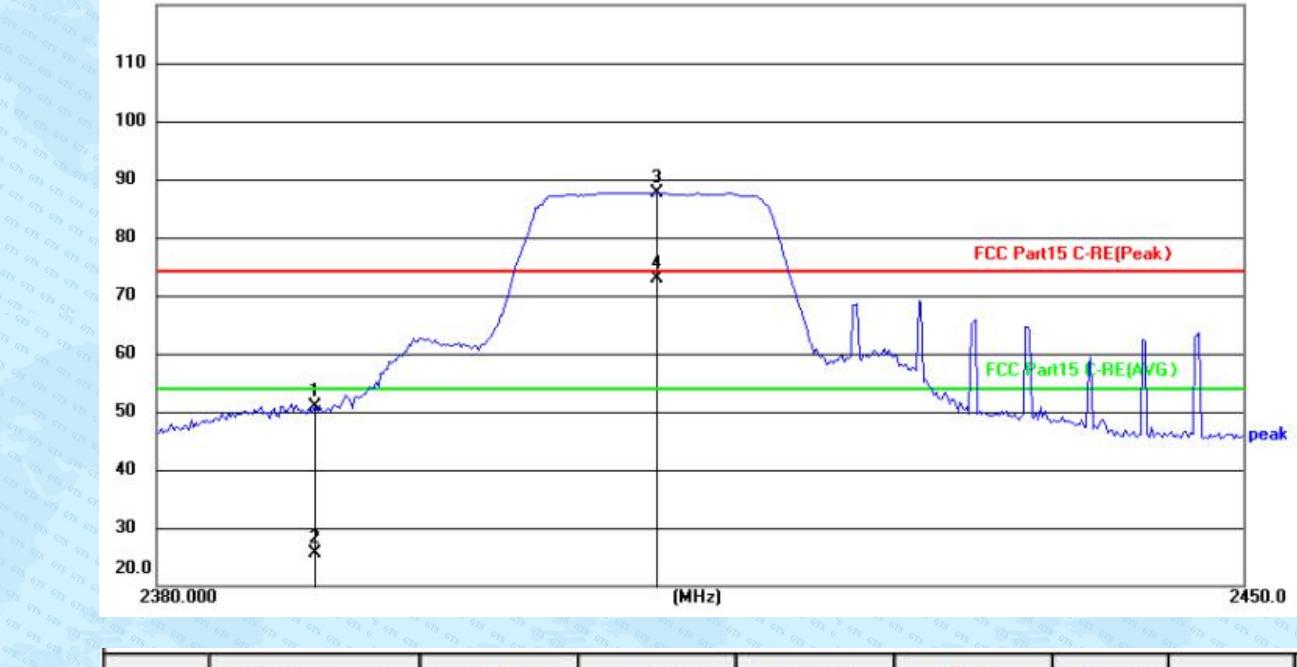
Measurement data:
All antennas have test, only the worst case ANT 1 report.

Test mode:	802.11b 2412MHz	Test channel:	Lowest
------------	-----------------	---------------	--------

Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	24.08	26.32	50.40	74.00	-23.60	peak
2	2390.000	-1.63	26.32	24.69	54.00	-29.31	AVG
3	2412.000	60.72	26.36	87.08	74.00	13.08	peak
4	2412.000	46.07	26.36	72.43	54.00	18.43	AVG

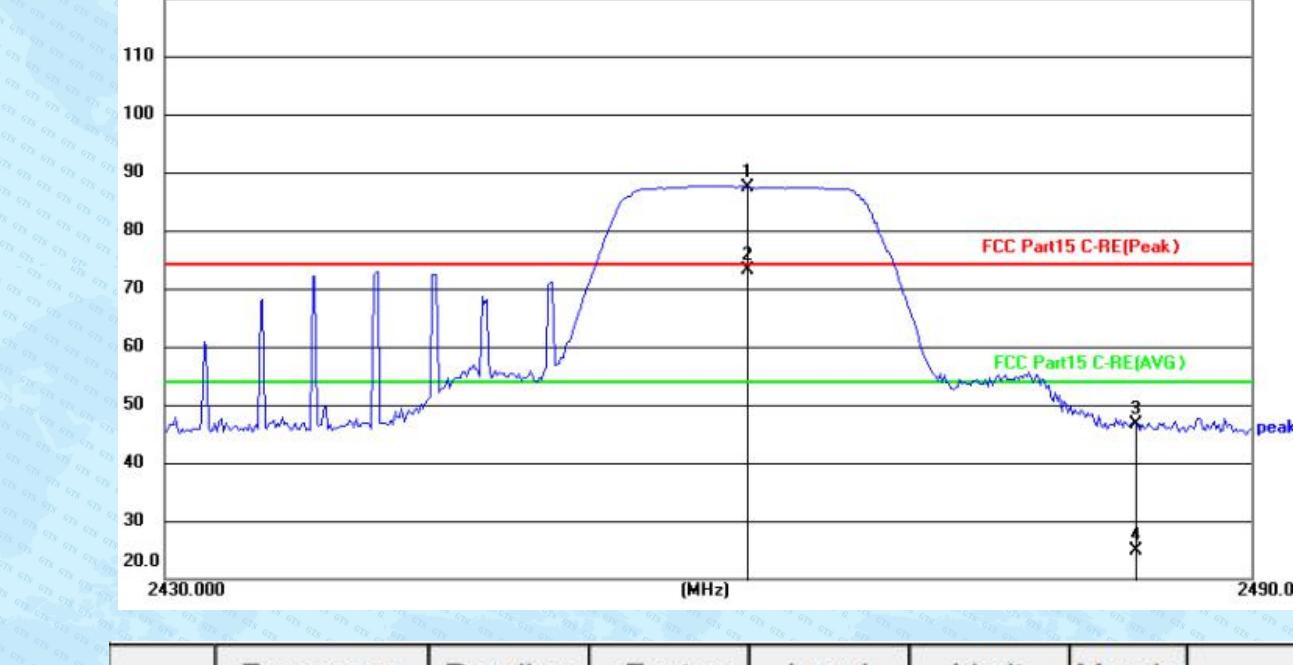
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	24.58	26.32	50.90	74.00	-23.10	peak
2	2390.000	-0.78	26.32	25.54	54.00	-28.46	AVG
3	2412.000	61.22	26.36	87.58	74.00	13.58	peak
4	2412.000	46.47	26.36	72.83	54.00	18.83	AVG

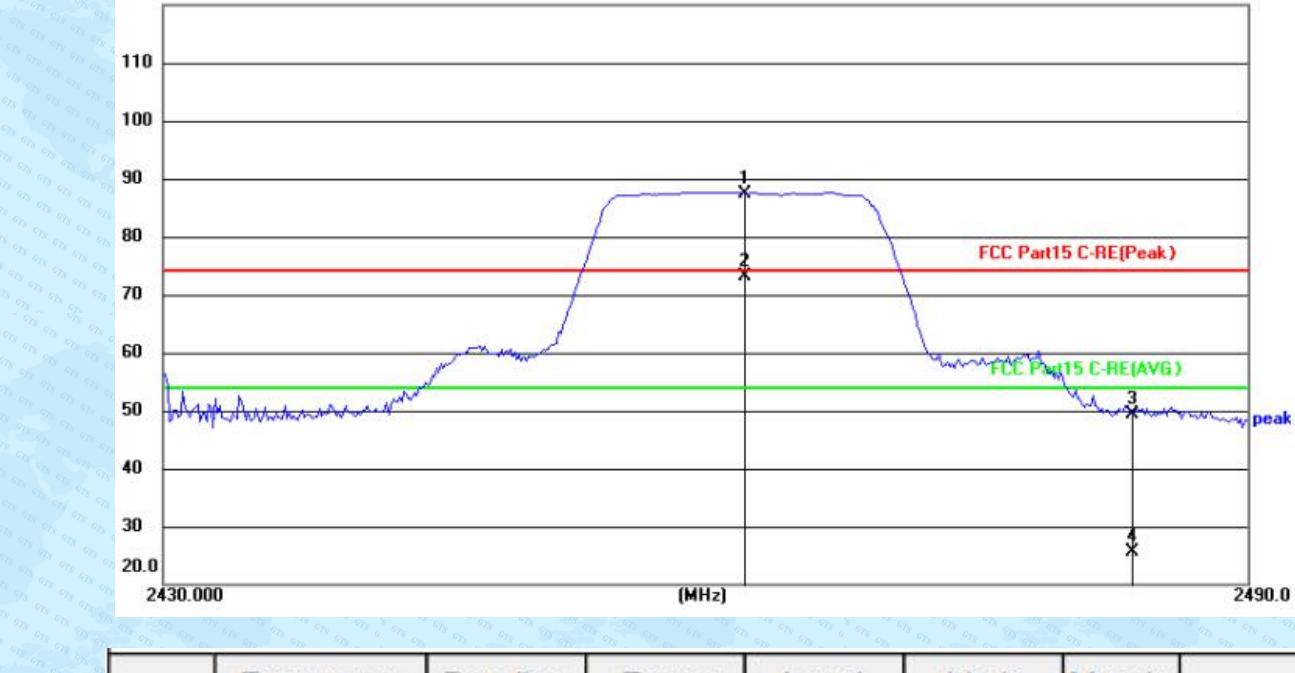
Test mode:	802.11b 2462MHz	Test channel:	Highest
------------	-----------------	---------------	---------

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.000	60.90	26.44	87.34	74.00	13.34	peak
2	2462.000	46.73	26.44	73.17	54.00	19.17	AVG
3	2483.500	20.21	26.47	46.68	74.00	-27.32	peak
4	2483.500	-1.64	26.47	24.83	54.00	-29.17	AVG

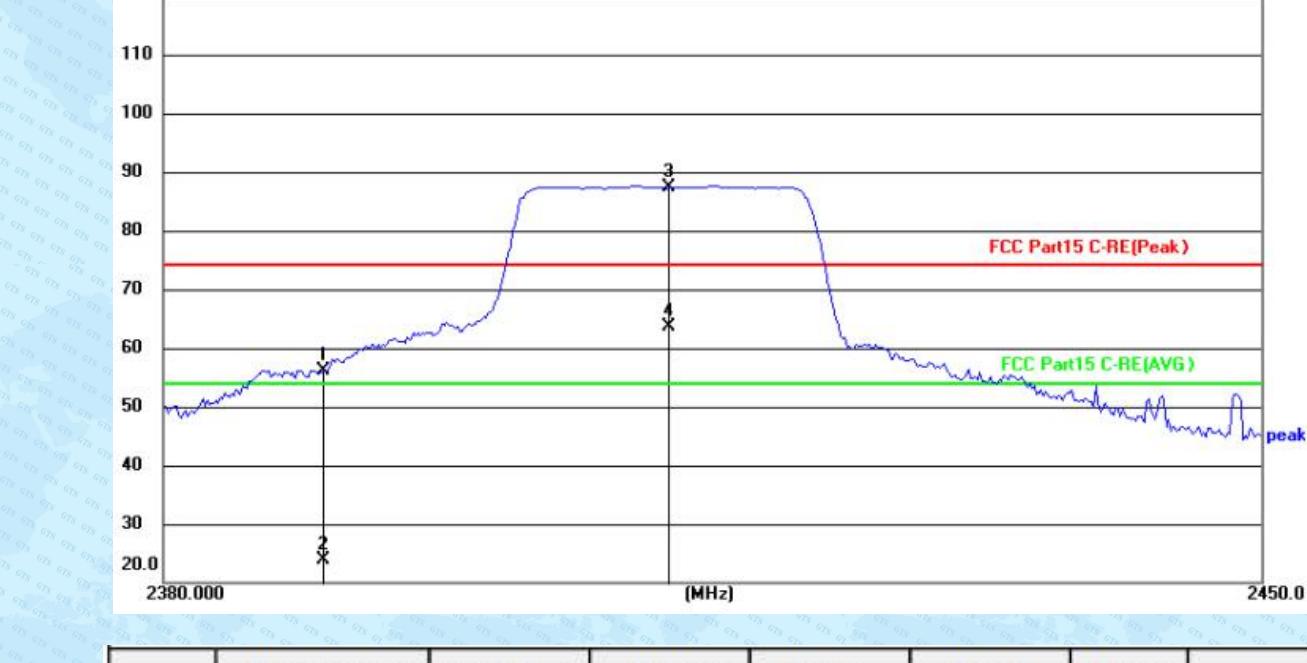
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2462.000	61.01	26.44	87.45	74.00	13.45	peak
2	2462.000	46.81	26.44	73.25	54.00	19.25	AVG
3	2483.500	22.94	26.47	49.41	74.00	-24.59	peak
4	2483.500	-0.86	26.47	25.61	54.00	-28.39	AVG

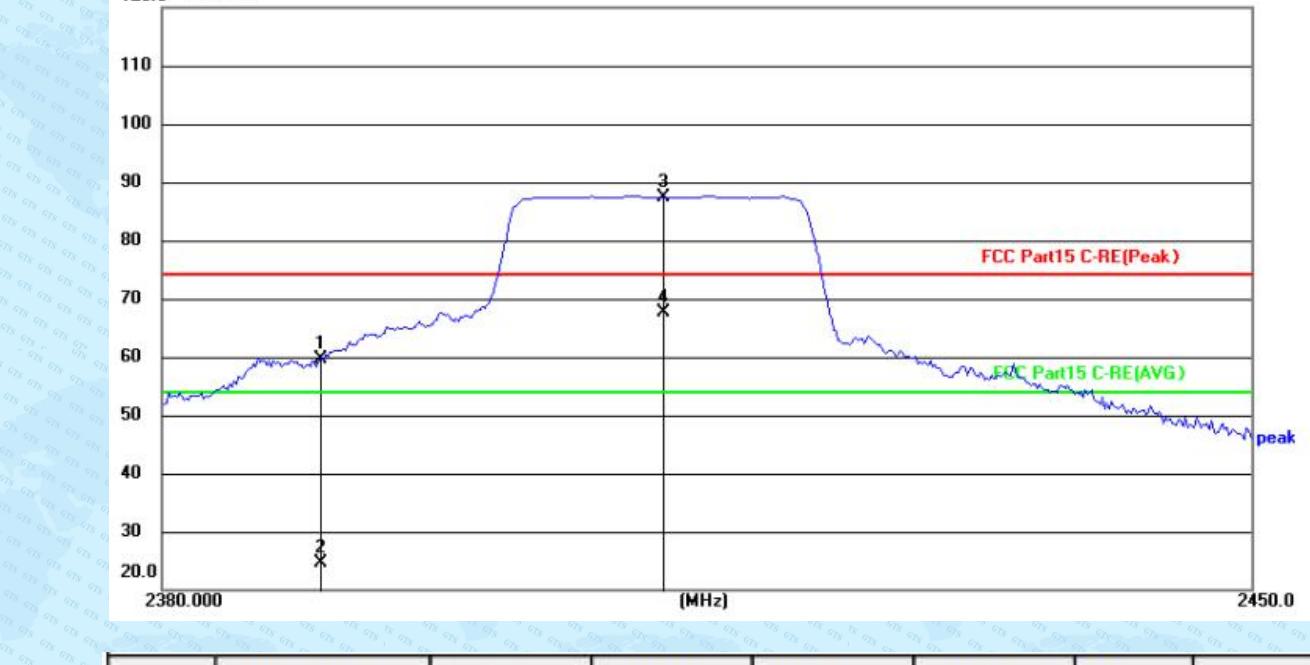
Test mode:	802.11g 2412MHz	Test channel:	Lowest
------------	-----------------	---------------	--------

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	29.69	26.32	56.01	74.00	-17.99	peak
2	2390.000	-2.40	26.32	23.92	54.00	-30.08	AVG
3	2412.000	60.91	26.36	87.27	74.00	13.27	peak
4	2412.000	37.35	26.36	63.71	54.00	9.71	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	33.28	26.32	59.60	74.00	-14.40	peak
2	2390.000	-1.61	26.32	24.71	54.00	-29.29	AVG
3	2412.000	60.92	26.36	87.28	74.00	13.28	peak
4	2412.000	41.35	26.36	67.71	54.00	13.71	AVG