TEST REPORT

Applicant:	Shenzhen Jingyi Smart Technology Co., Ltd.
Address of Applicant:	Room1102, Building 5E, Shenzhen software Industry Base, Binghai Av., Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Jingyi Smart Technology Co., Ltd.
Address of Manufacturer:	Room1102, Building 5E, Shenzhen software Industry Base, Binghai Av., Yuehai Street, Nanshan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name:	Badge camera
Model No.:	T0
Trade Mark:	
FCC ID:	2AZCCPET0
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	March 17, 2021
Date of Test:	March 17, 2021- March 23, 2021
Date of report issued:	March 23, 2021
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	*March 23, 2021*	*Original*

Prepared By: ***Date:*** *March 23, 2021*

Project Engineer

Check By: ***Date:*** *March 23, 2021*

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	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

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	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:	Badge camera
Model No.:	T0
Serial No.:	DSJ-JLYT0A1R100092
Hardware Version:	EP-PT0MB03-6L
Software Version:	T0_1.0.72
Test sample(s) ID:	GTSL202103000257-1
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:	FPC
Antenna gain:	-0.72dBi
Power supply:	Adapter MODEL: HNDC050200X1 INPUT:100-240V~50/60Hz 0.45A Max OUTPUT:DC 5V, 2.0A Built in battery Model No.:822750 Capacitance:1450mAh Rated Voltage: DC 3.8V

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
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.	

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**

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. Registration 381383.

● **IC —Registration No.: 9079A**

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 with Registration No.: 9079A

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

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	CMD Command
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. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

Conducted Emission						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

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. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

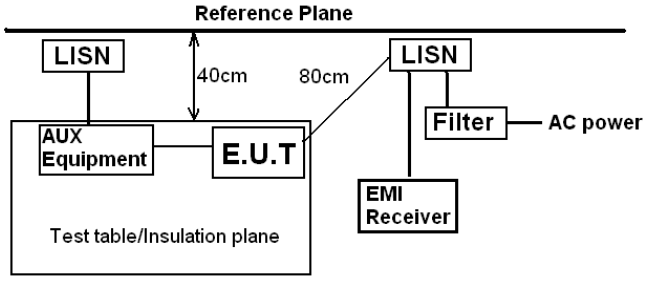
General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement

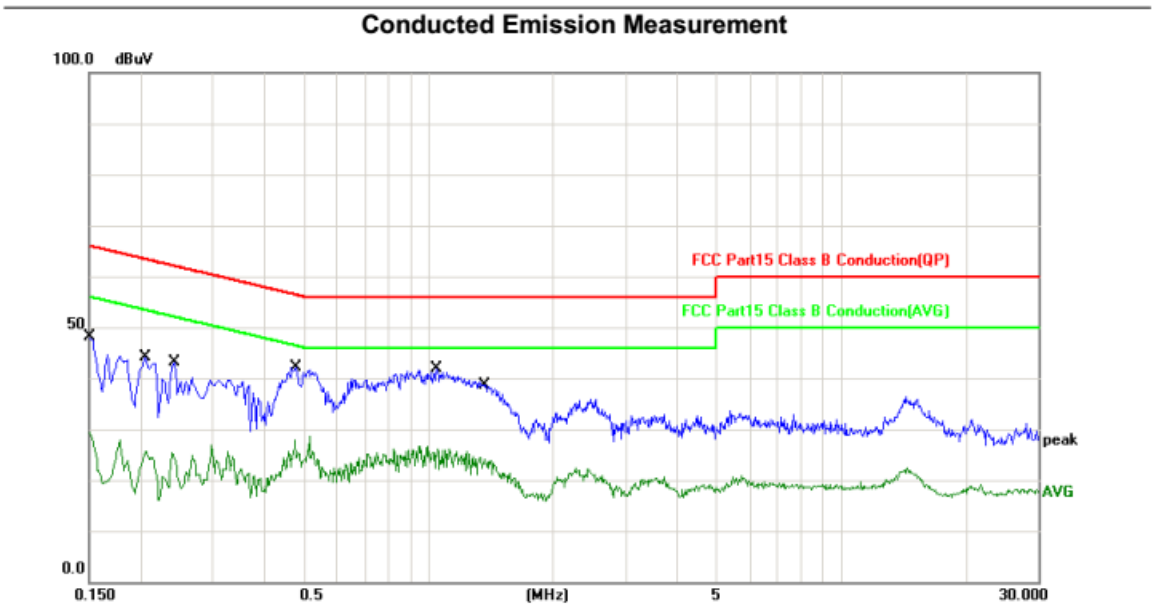
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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 FPC antenna, the best case gain of the antenna is -0.72dBi, reference to the appendix II 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:	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:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test procedure:	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.: 25 °C / Humid.: 52% / Press.: 1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass

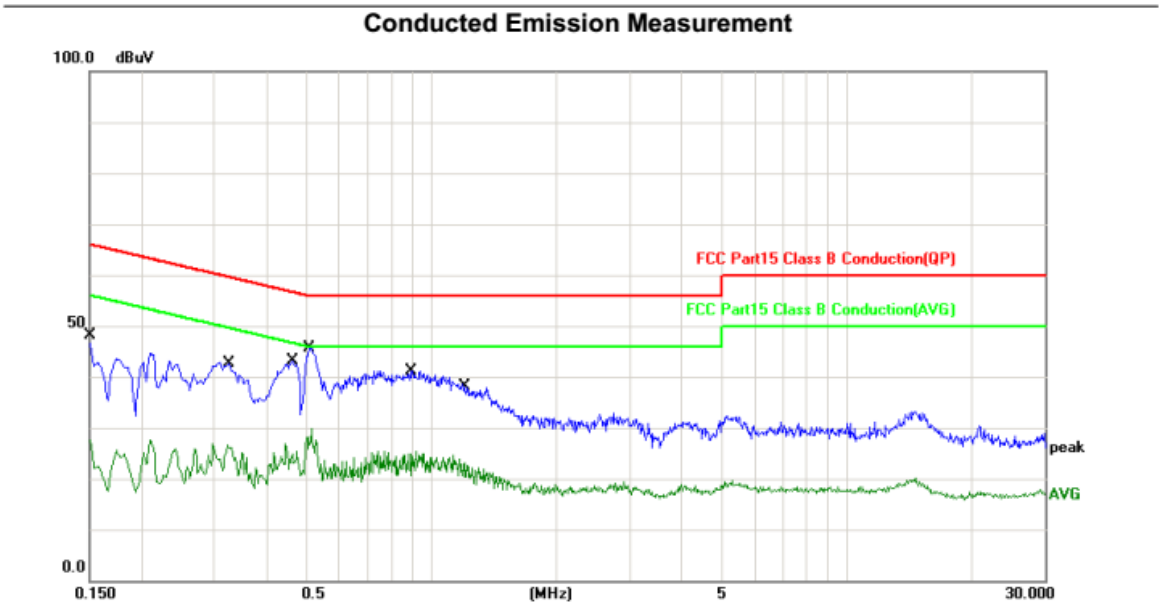
Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data
Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	24.26	19.49	43.75	66.00	-22.25	QP	
2		0.1500	7.67	19.49	27.16	56.00	-28.84	AVG	
3		0.2060	19.40	19.53	38.93	63.37	-24.44	QP	
4		0.2060	3.87	19.53	23.40	53.37	-29.97	AVG	
5		0.2420	17.96	19.53	37.49	62.03	-24.54	QP	
6		0.2420	2.38	19.53	21.91	52.03	-30.12	AVG	
7	*	0.4780	18.37	19.53	37.90	56.37	-18.47	QP	
8		0.4780	4.87	19.53	24.40	46.37	-21.97	AVG	
9		1.0460	16.72	19.67	36.39	56.00	-19.61	QP	
10		1.0460	3.30	19.67	22.97	46.00	-23.03	AVG	
11		1.3620	14.10	19.76	33.86	56.00	-22.14	QP	
12		1.3620	2.04	19.76	21.80	46.00	-24.20	AVG	

Neutral:

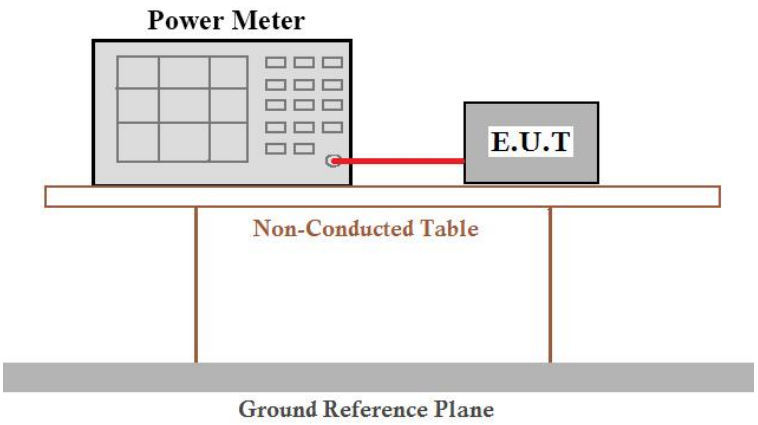


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	23.65	19.70	43.35	66.00	-22.65	QP	
2		0.1500	7.09	19.70	26.79	56.00	-29.21	AVG	
3		0.3260	19.58	19.70	39.28	59.55	-20.27	QP	
4		0.3260	4.73	19.70	24.43	49.55	-25.12	AVG	
5		0.4620	17.97	19.73	37.70	56.66	-18.96	QP	
6		0.4620	2.86	19.73	22.59	46.66	-24.07	AVG	
7	*	0.5100	21.45	19.74	41.19	56.00	-14.81	QP	
8		0.5100	6.85	19.74	26.59	46.00	-19.41	AVG	
9		0.8940	16.46	19.85	36.31	56.00	-19.69	QP	
10		0.8940	2.24	19.85	22.09	46.00	-23.91	AVG	
11		1.2060	12.72	19.95	32.67	56.00	-23.33	QP	
12		1.2060	0.42	19.95	20.37	46.00	-25.63	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

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

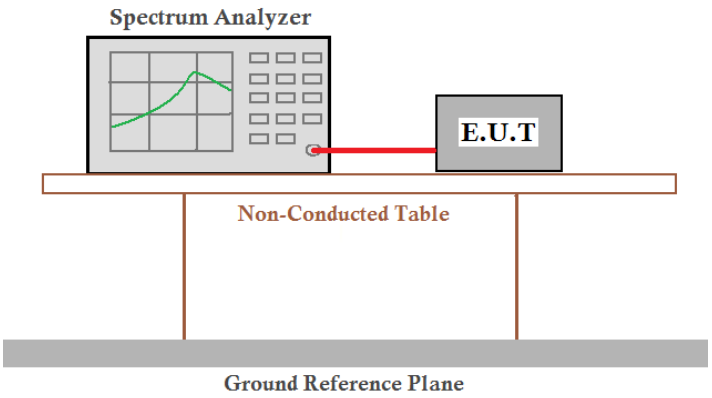
Measurement Data

Test CH	Peak Output Power (dBm)	Limit(dBm)	Result
	802.11b		
Lowest	15.79	30.00	Pass
Middle	15.89		
Highest	15.68		

Test CH	Peak Output Power (dBm)	Limit(dBm)	Result
	802.11g		
Lowest	22.21	30.00	Pass
Middle	22.63		
Highest	21.82		

Test CH	Peak Output Power (dBm)	Limit(dBm)	Result
	802.11n (HT20)		
Lowest	20.77	30.00	Pass
Middle	22.40		
Highest	21.22		

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

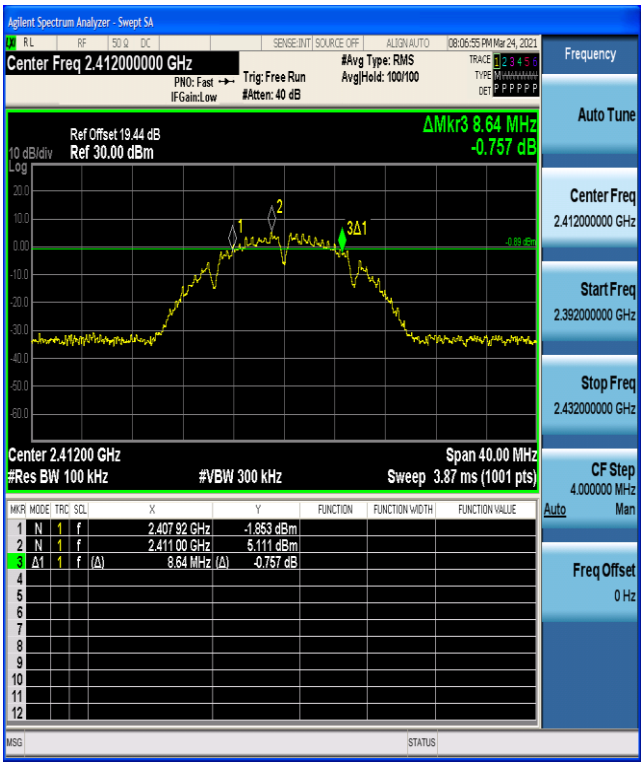
Measurement Data

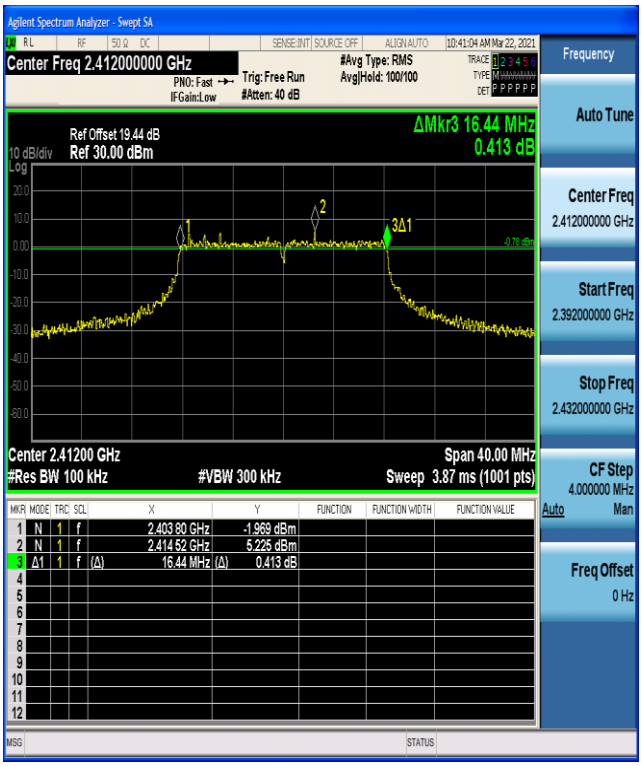
Test CH	Channel Bandwidth (MHz)			Limit(KHz)	Result
	802.11b	802.11g	802.11n (HT20)		
Lowest	8.640	16.440	17.000	>500	Pass
Middle	9.080	16.480	17.280		
Highest	8.120	16.400	17.720		

Test CH	99% Occupy Bandwidth (MHz)			Result
	802.11b	802.11g	802.11n (HT20)	
Lowest	14.112	17.448	18.259	Pass
Middle	14.146	17.734	18.401	
Highest	14.251	17.460	18.306	

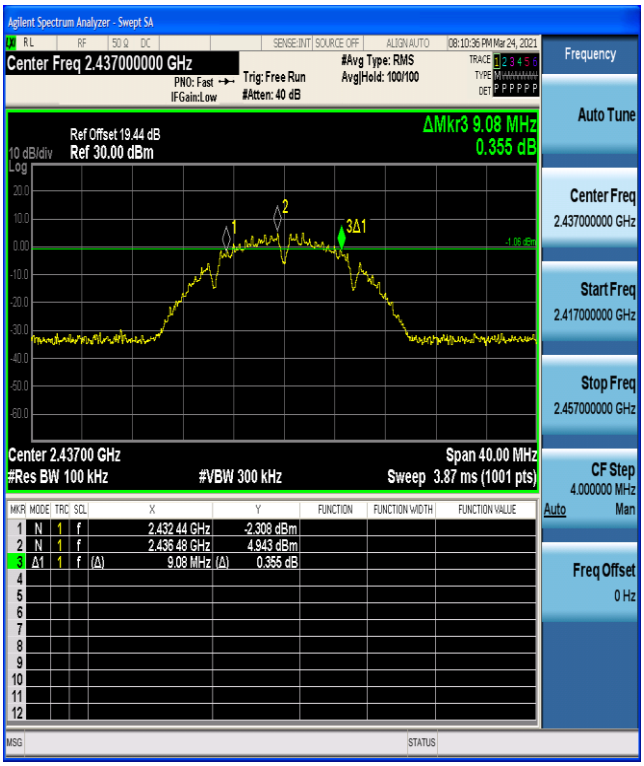
Test plot as follows:

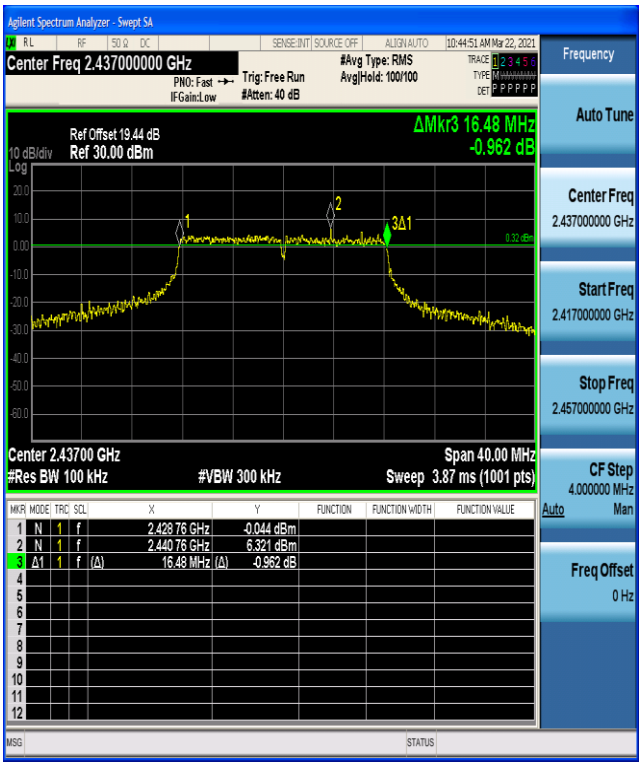
802.11b		802.11g	



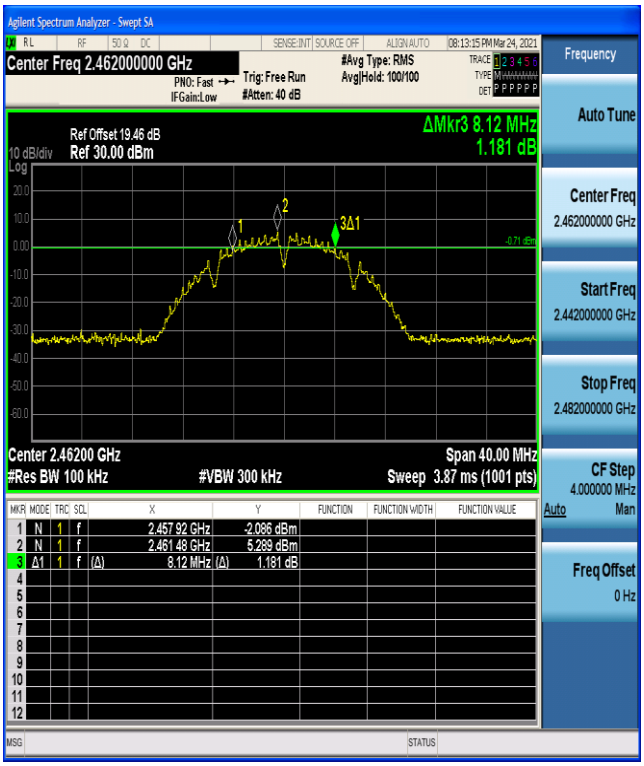


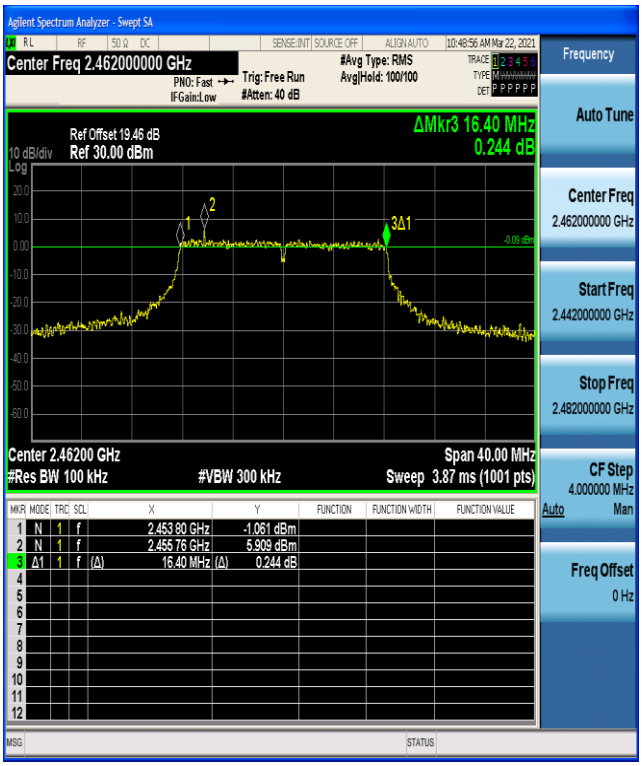
Lowest channel





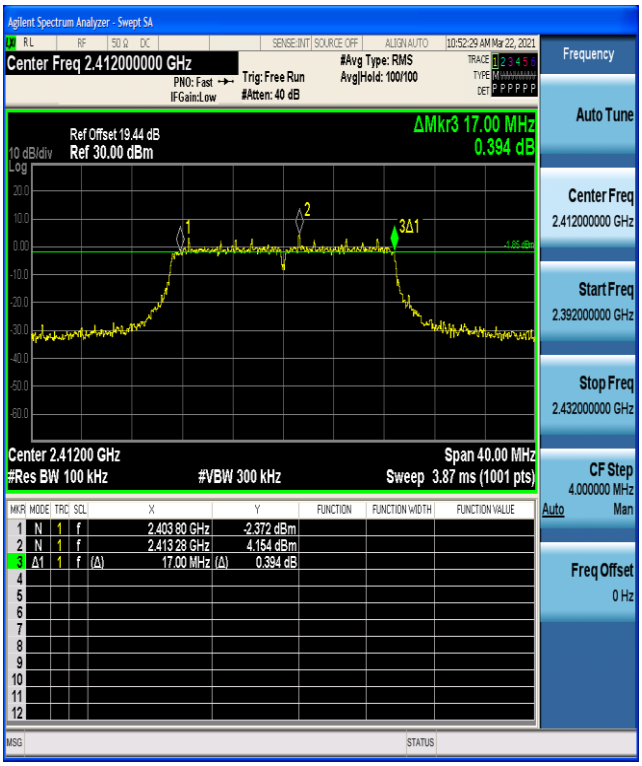
Middle channel



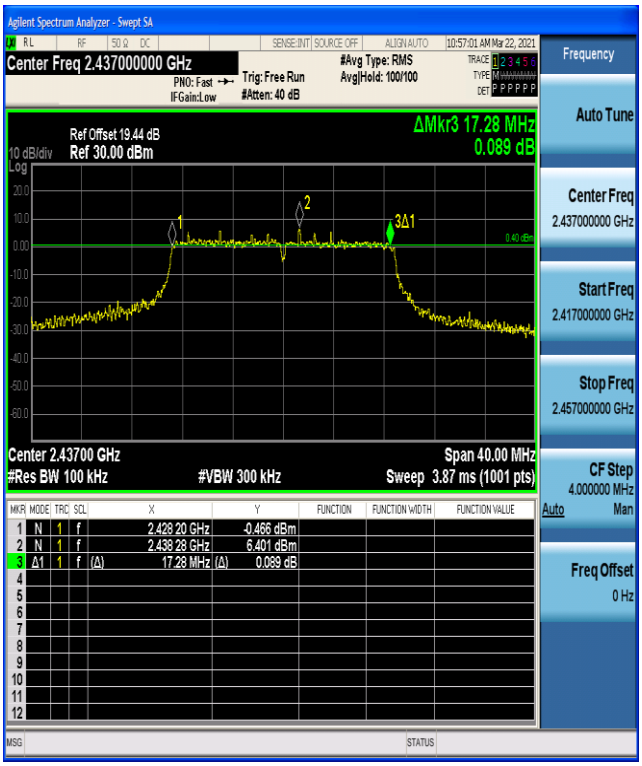


Highest channel

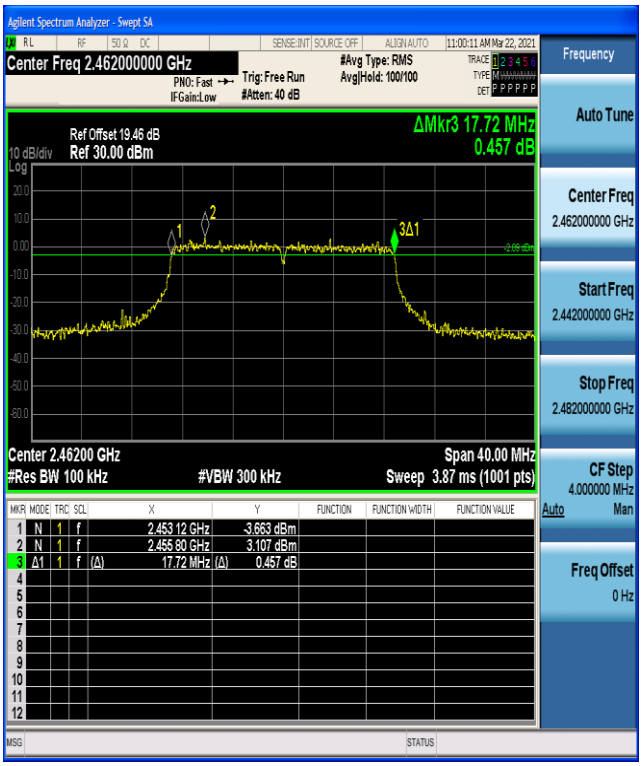
802.11n(HT20)	



Lowest channel



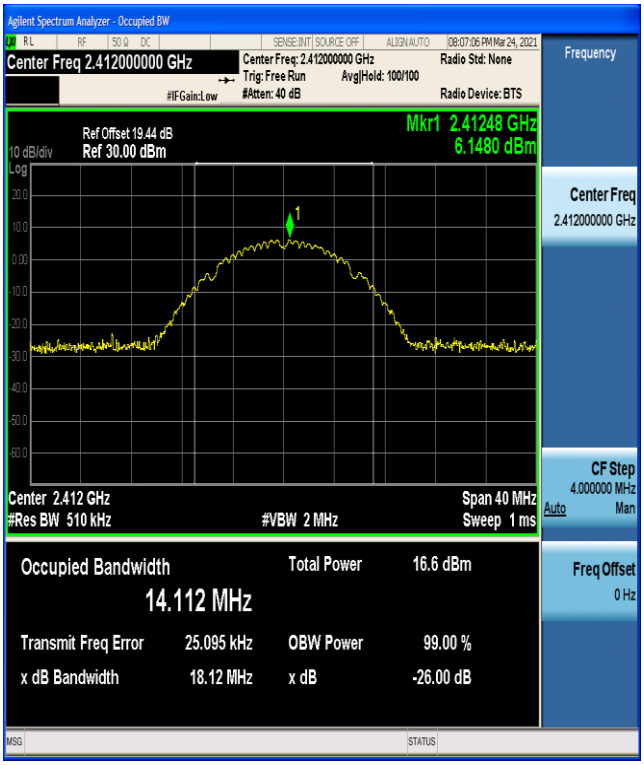
Middle channel

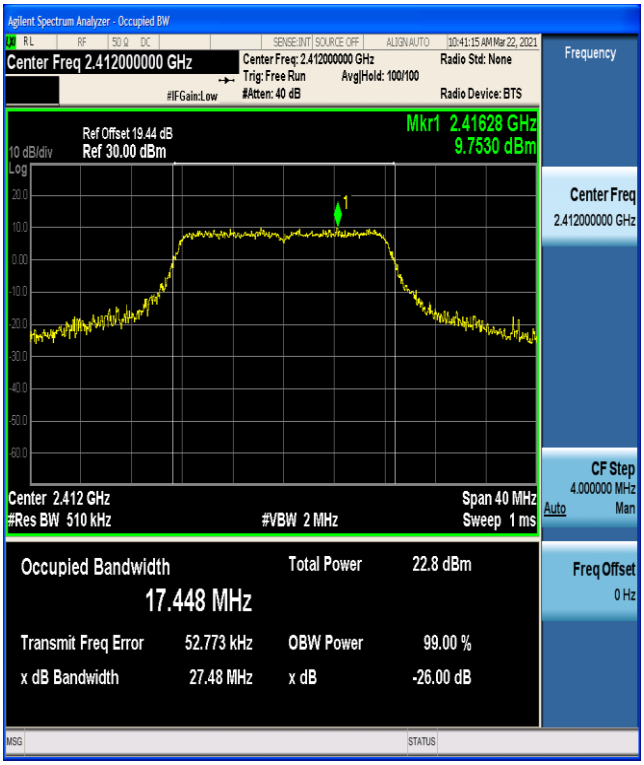


Highest channel

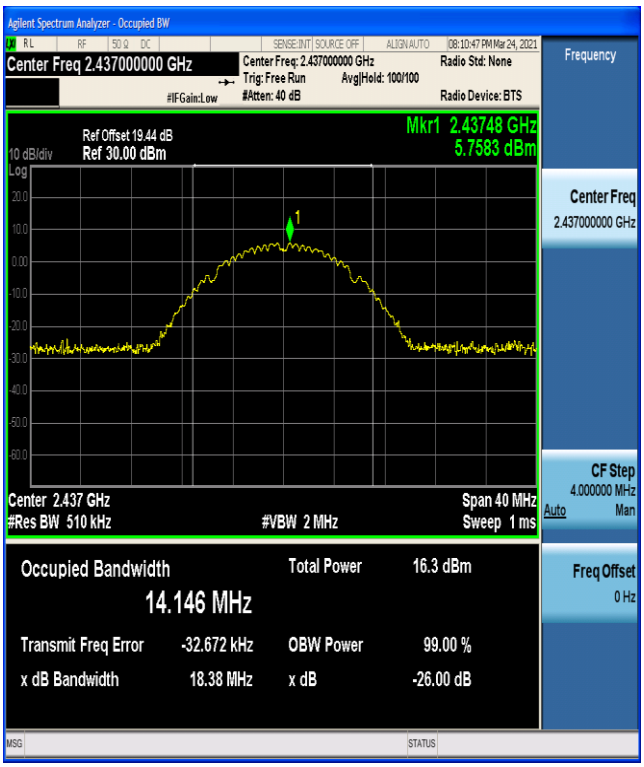
Test plot as follows:

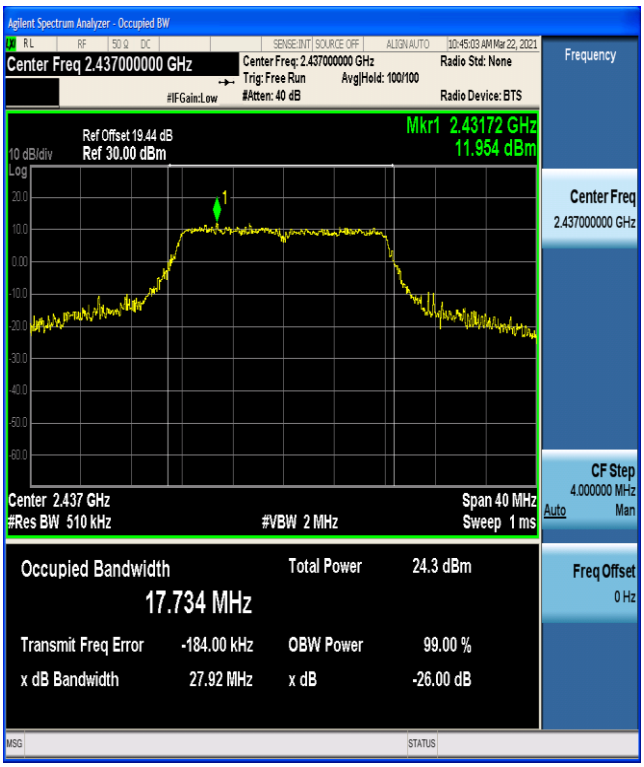
802.11b		802.11g	



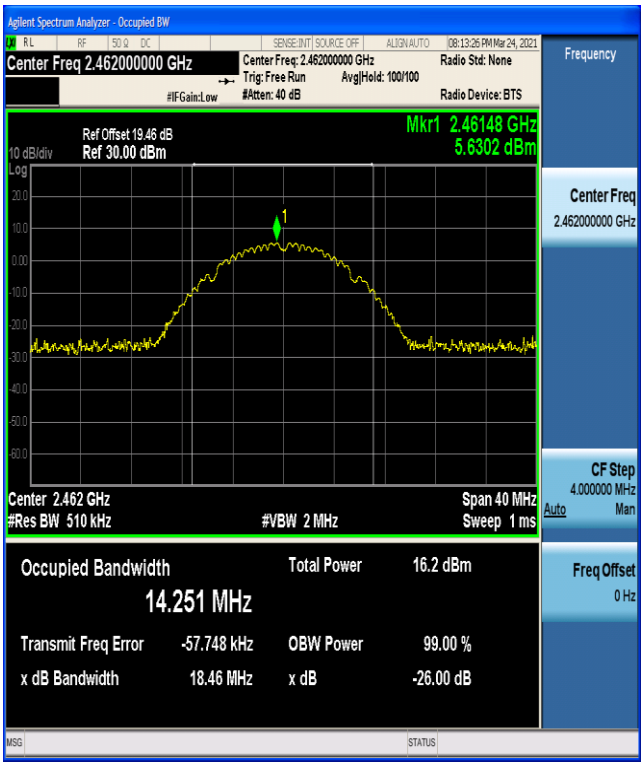


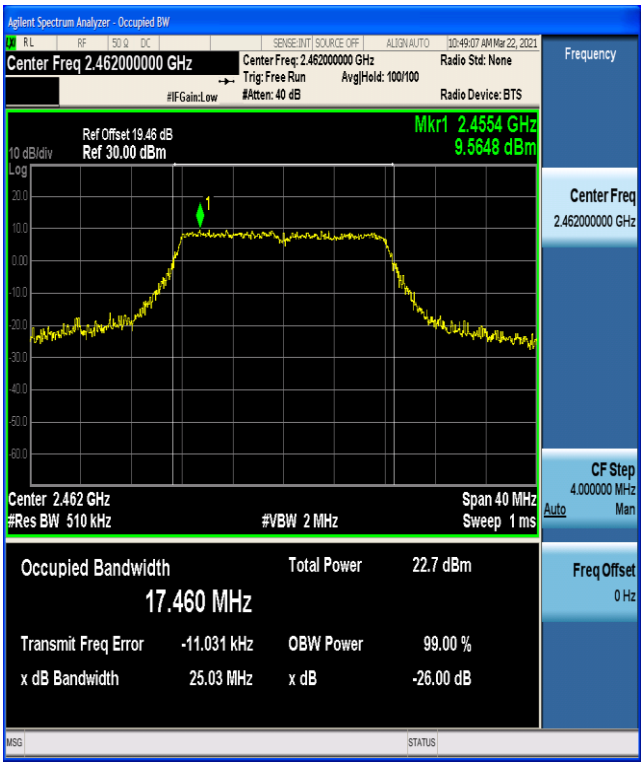
Lowest channel





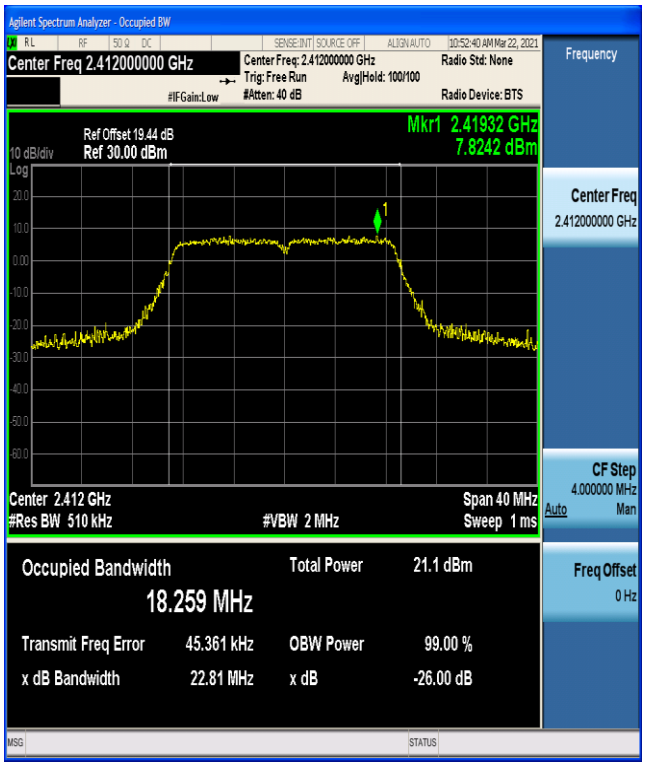
Middle channel

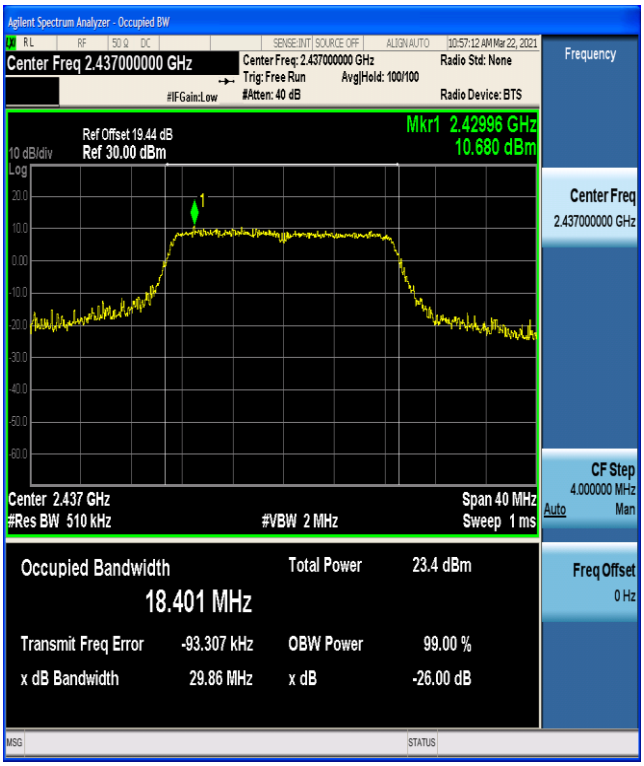




Highest channel

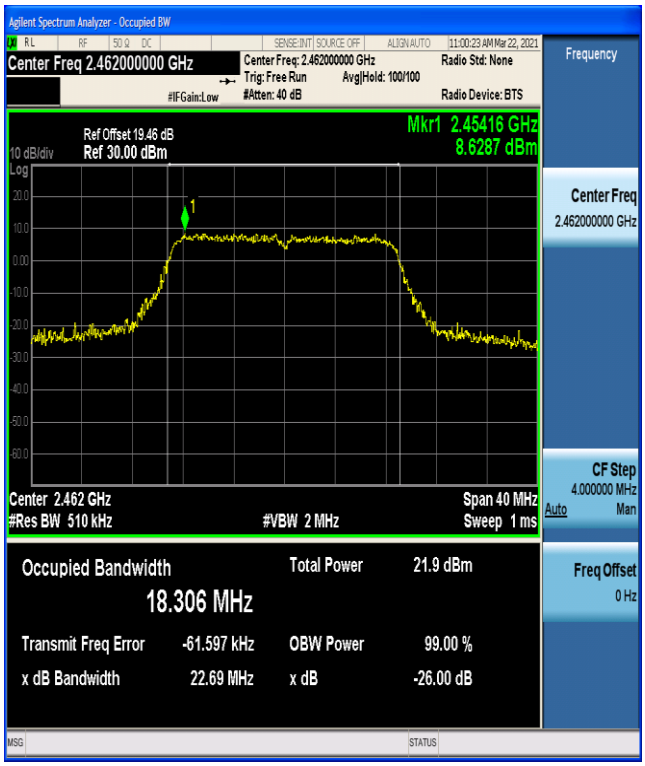
802.11n(HT20)	





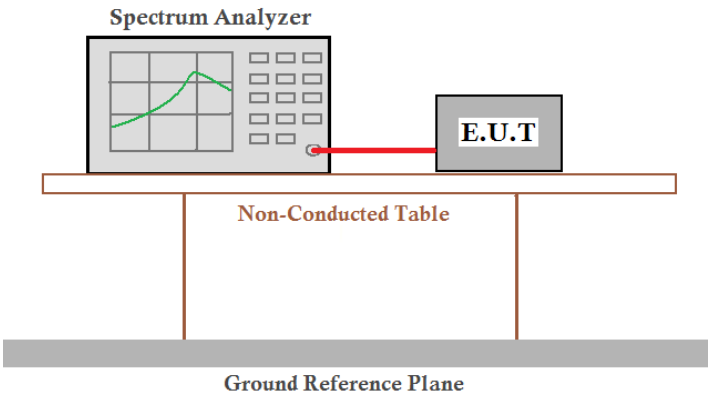
Lowest channel

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

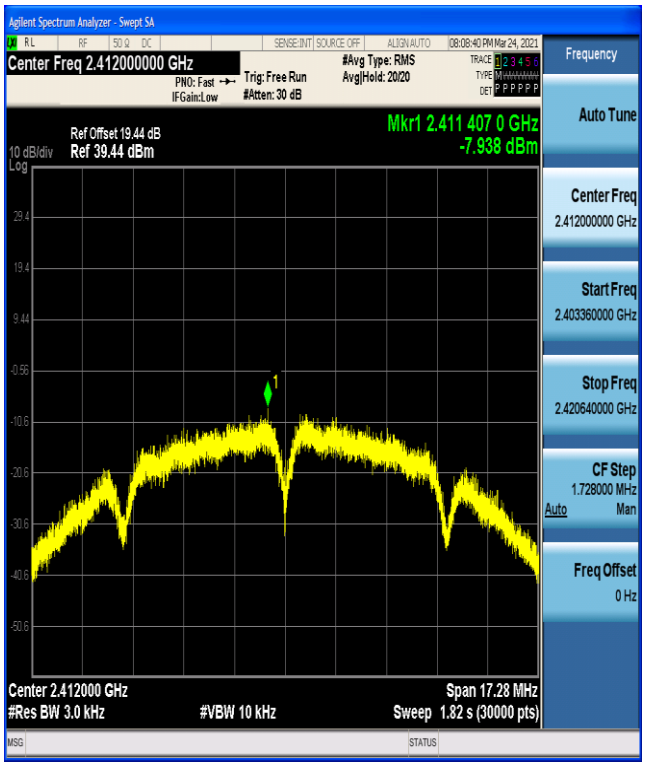
Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	802.11b		
Lowest	-7.94	8.00	Pass
Middle	-7.89		
Highest	-9.30		

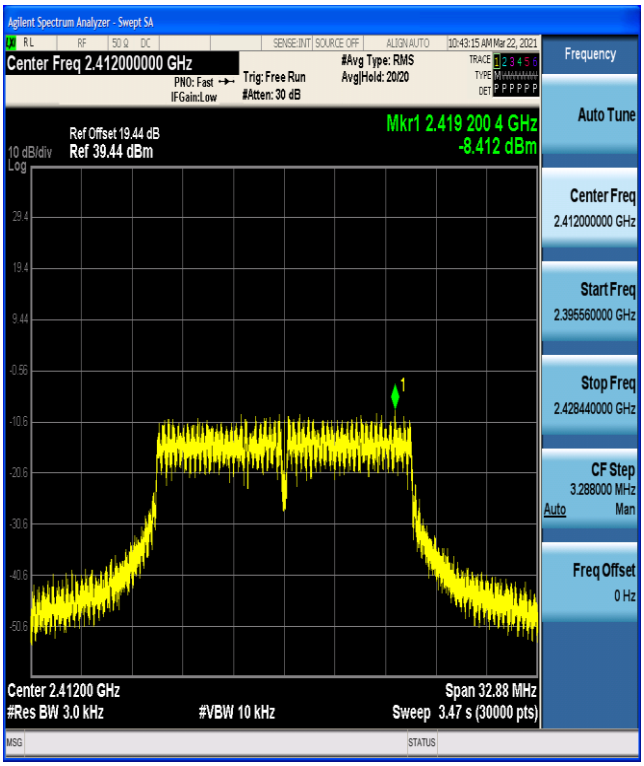
Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	802.11g		
Lowest	-8.41	8.00	Pass
Middle	-6.37		
Highest	-7.68		

Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	802.11n (HT20)		
Lowest	-9.52	8.00	Pass
Middle	-8.27		
Highest	-9.04		

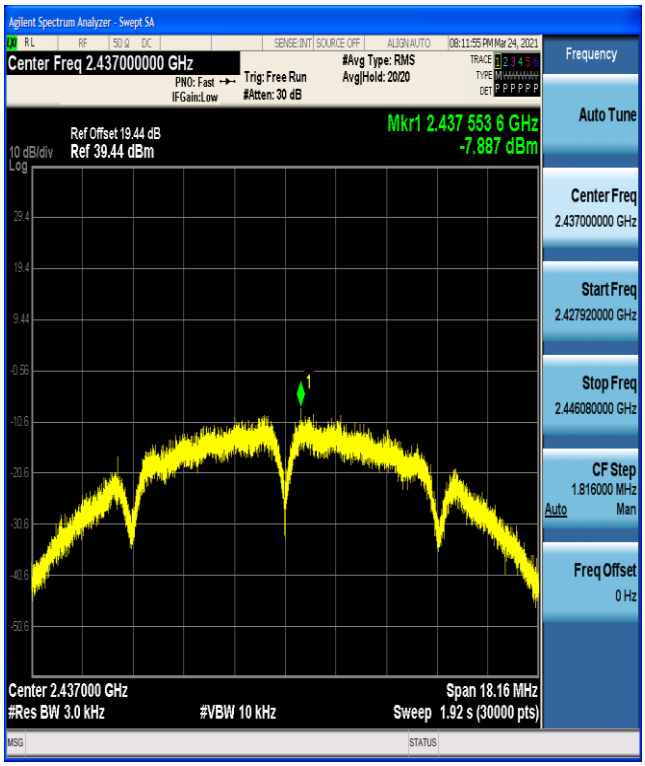
Test plot as follows:

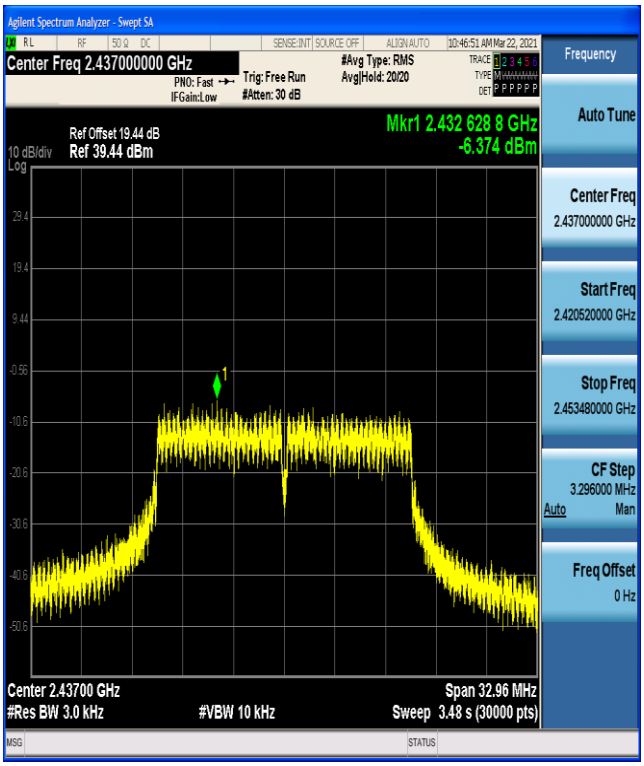
802.11b		802.11g	



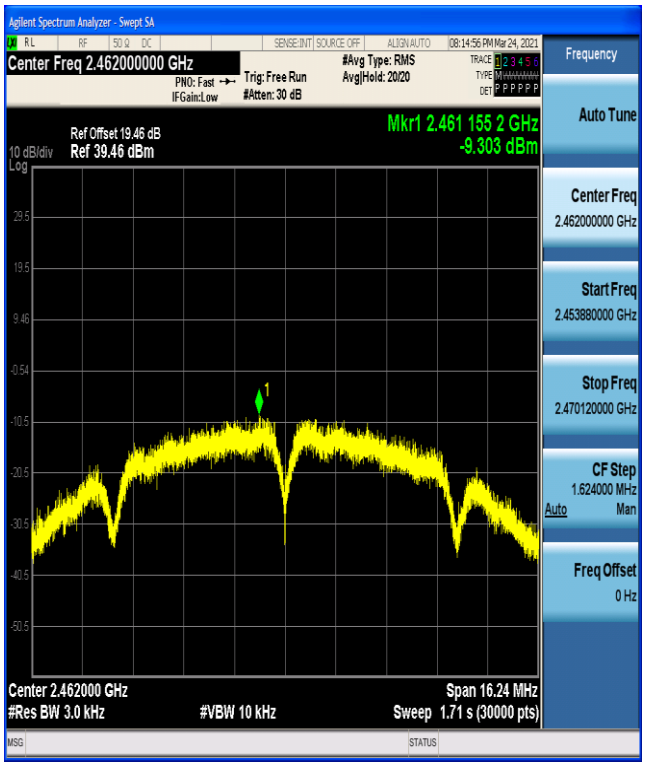


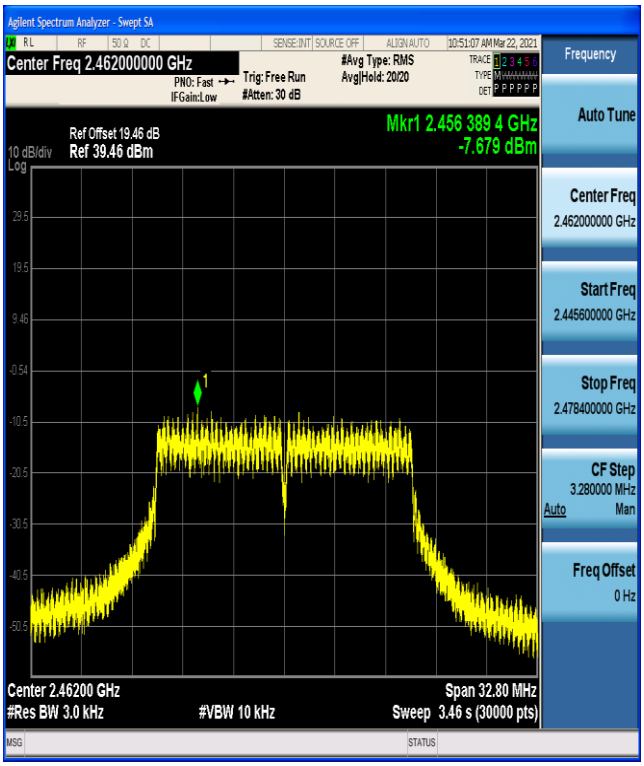
Lowest channel





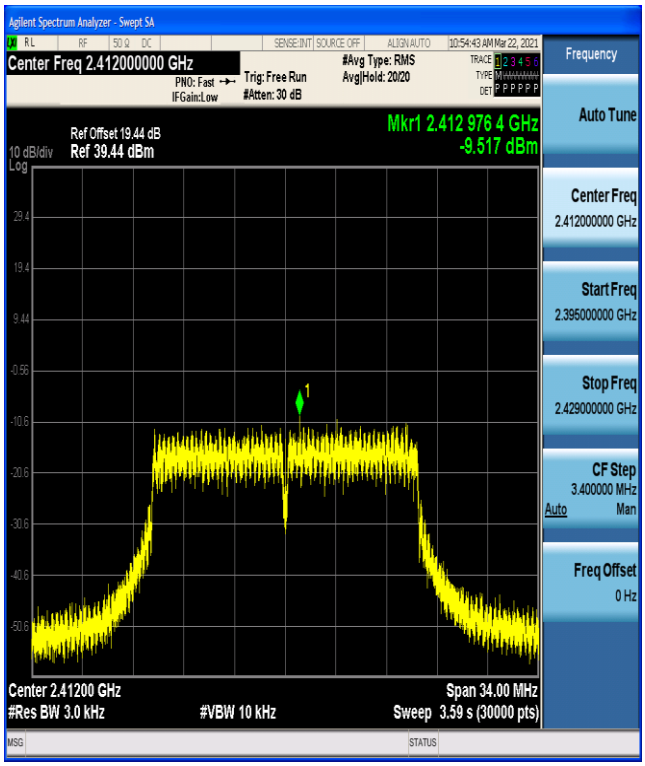
Middle channel

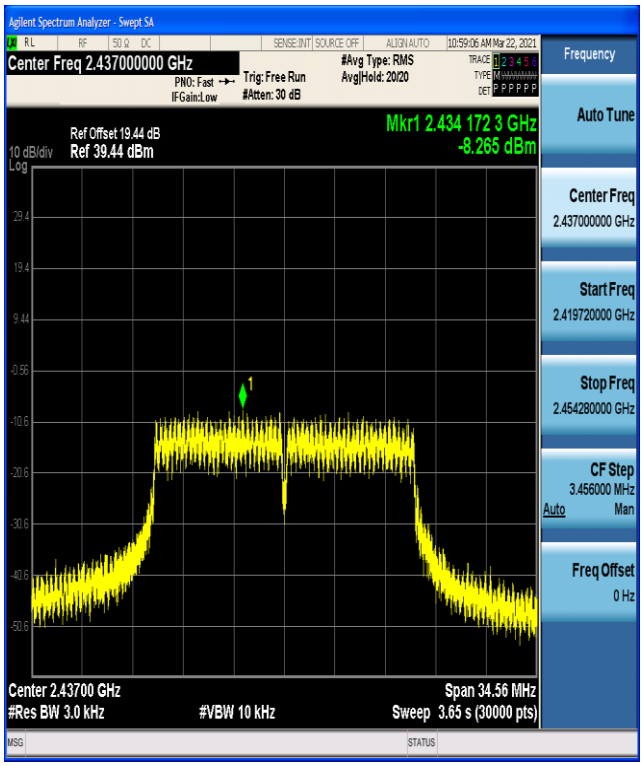




Highest channel

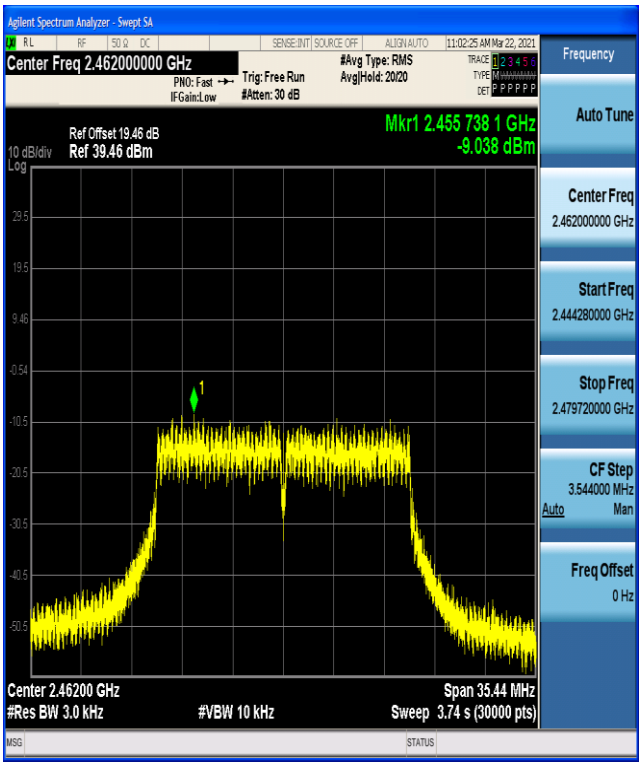
802.11n(HT20)	





Lowest channel

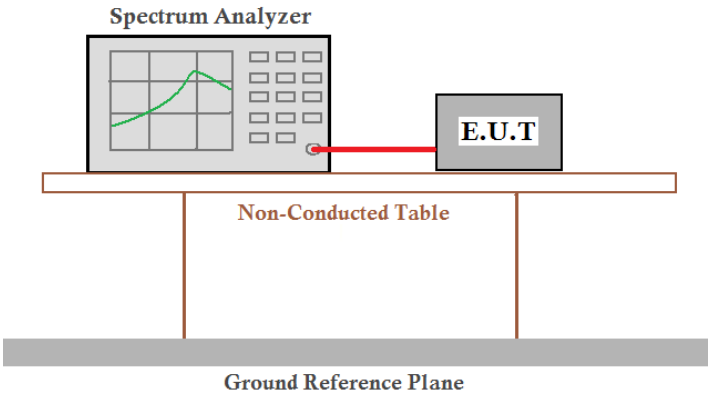
Middle channel



Highest channel

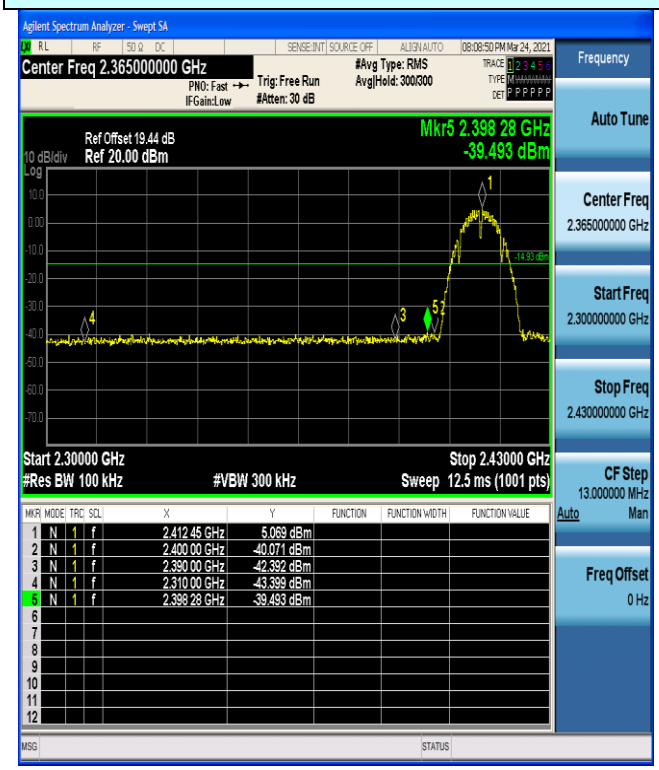
7.6 Band edges

7.6.1 Conducted Emission Method

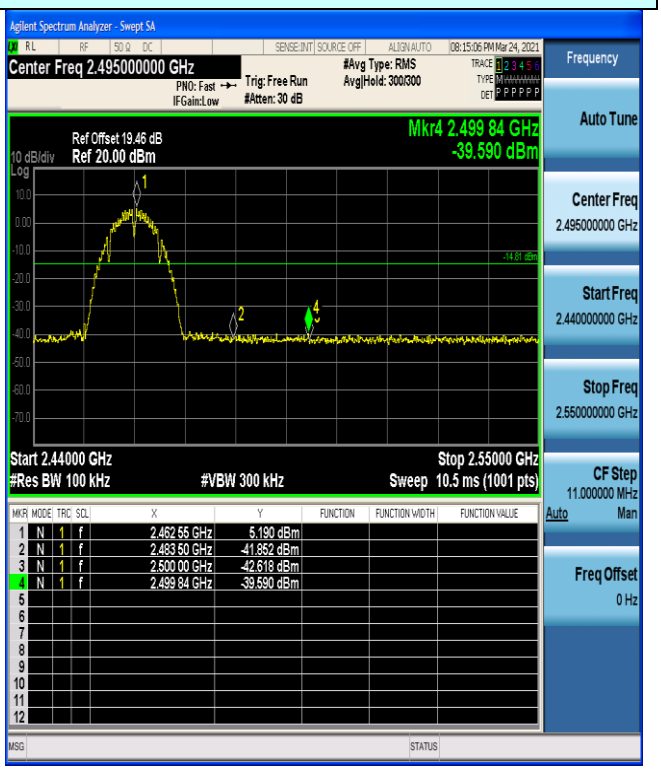
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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:	
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

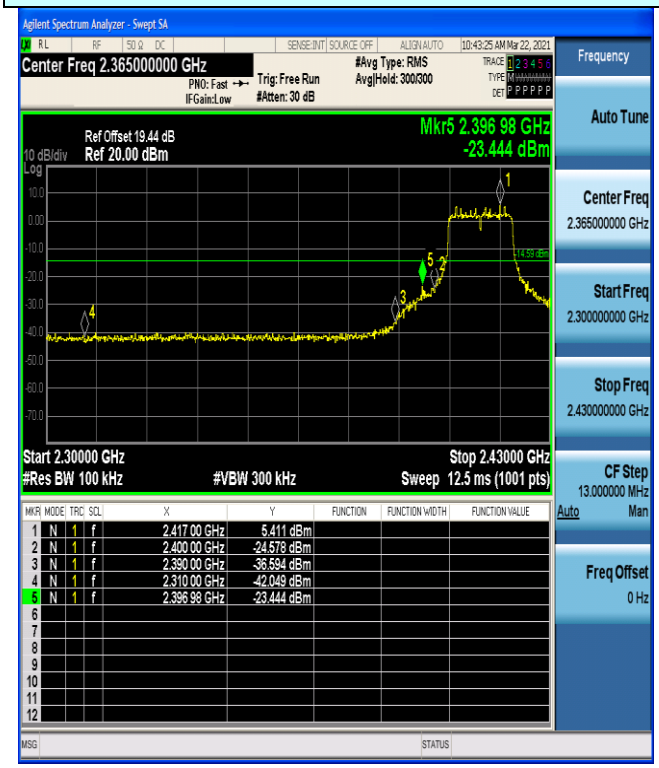


Lowest channel



Highest channel

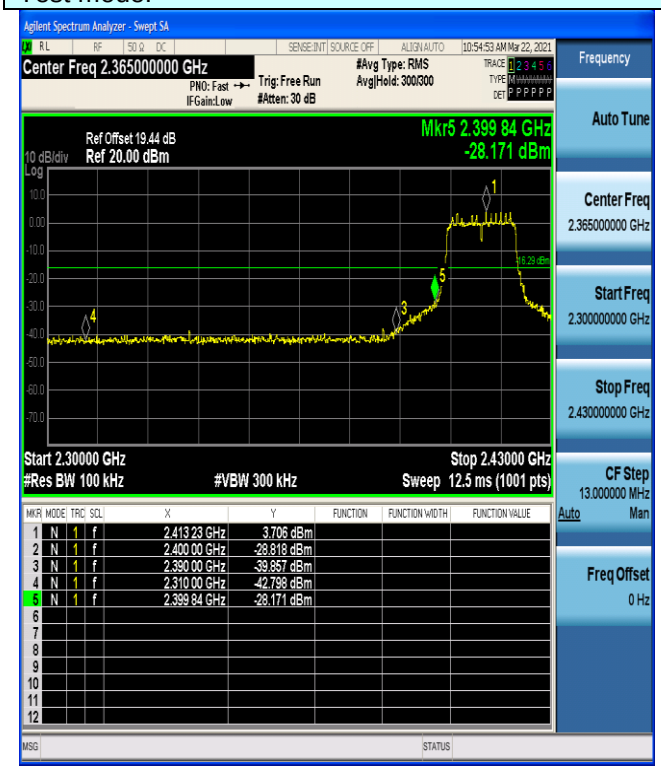
Test mode:	802.11g



Lowest channel

Highest channel

Test mode:	802.11n(HT20)



Lowest channel

Highest channel

7.6.2 Radiated Emission Method

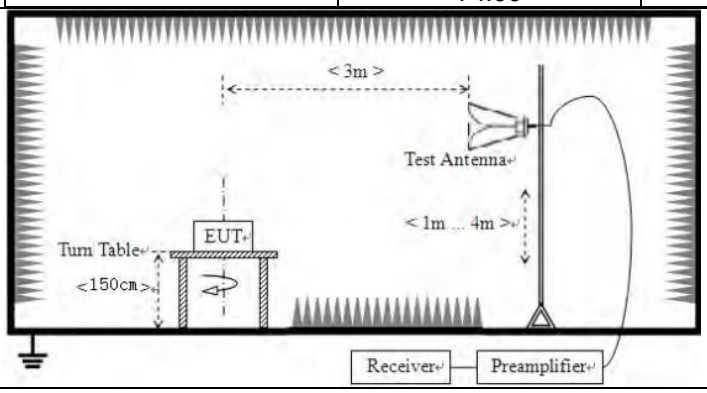
Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	3MHz	Average

Limit:

Frequency	Limit (dBuV/m @3m)	Value
Above 1GHz	54.00	Average
	74.00	Peak

Test setup:



Test Procedure:

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.
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.
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.
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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
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.
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.

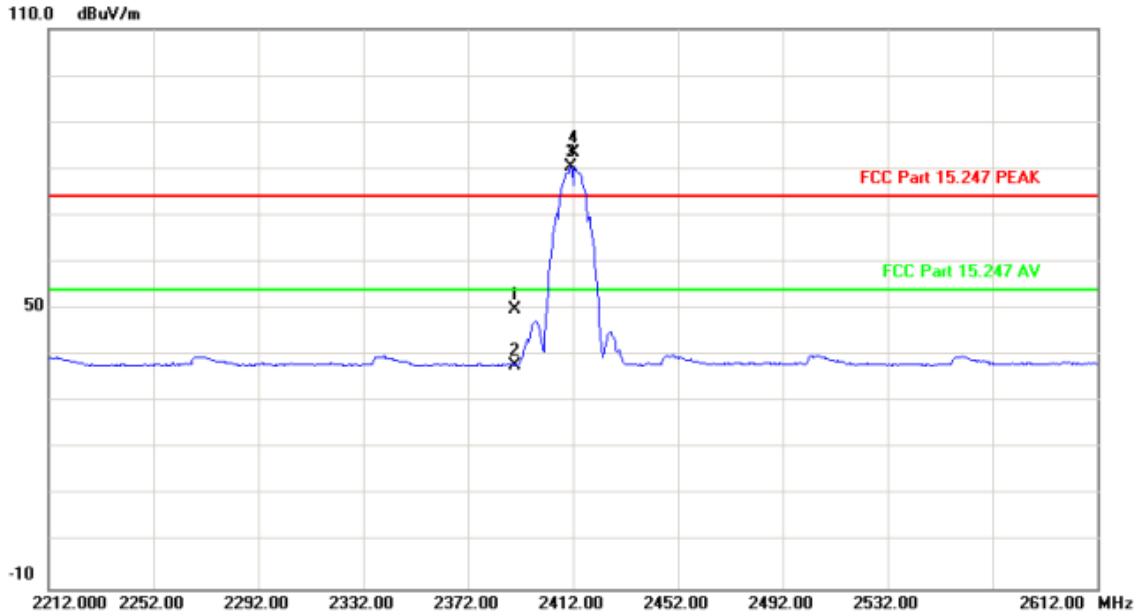
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Test mode:	802.11b	Test channel: 1	Lowest

Vertical

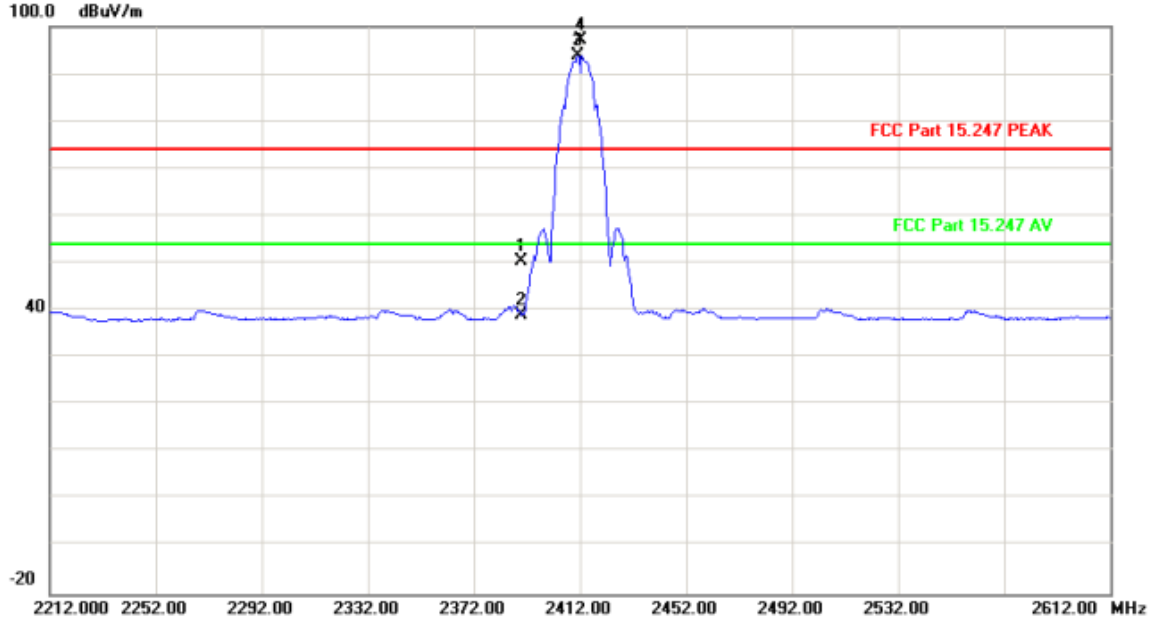
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	58.84	-9.11	49.73	74.00	-24.27	peak			
2		2390.000	47.10	-9.11	37.99	54.00	-16.01	AVG			
3	*	2411.200	89.54	-9.10	80.44	54.00	26.44	AVG			
4	X	2412.000	92.65	-9.10	83.55	74.00	9.55	peak			

Horizontal

Radiated Emission

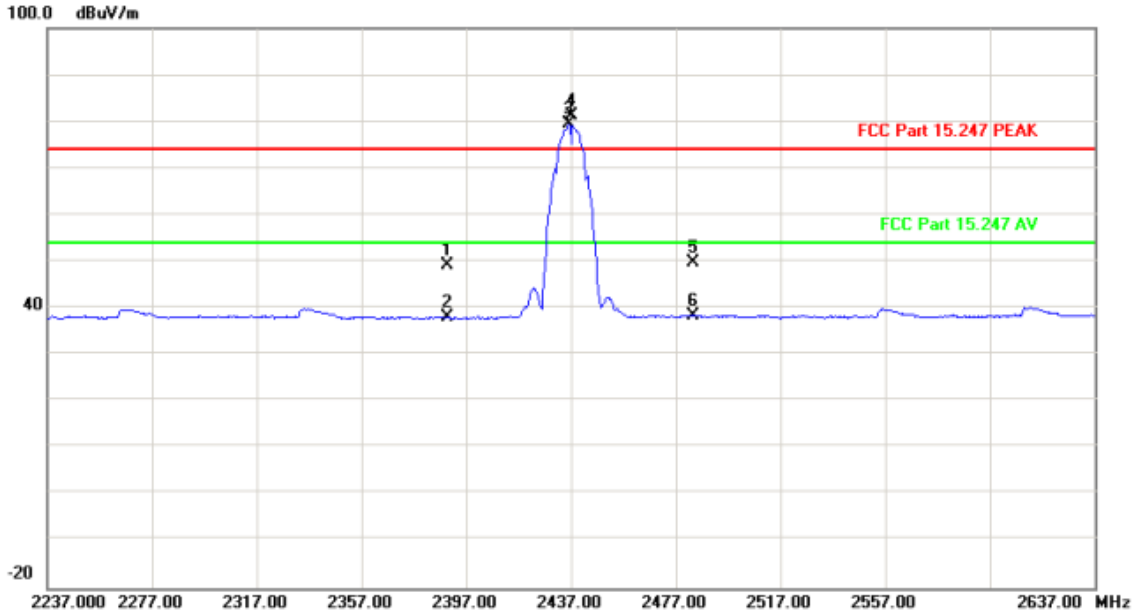


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	59.46	-9.11	50.35	74.00	-23.65	peak			
2		2390.000	48.09	-9.11	38.98	54.00	-15.02	AVG			
3	*	2411.200	102.93	-9.10	93.83	54.00	39.83	AVG			
4	X	2412.000	106.32	-9.10	97.22	74.00	23.22	peak			

Test mode:	802.11b	Test channel: 6	Middle

Vertical

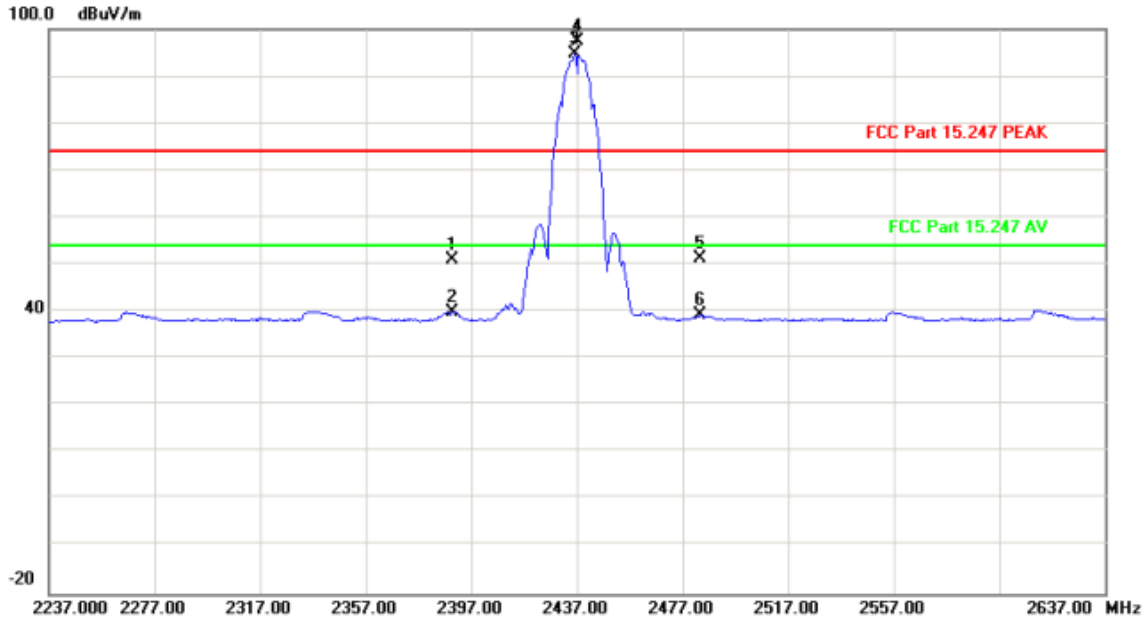
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	58.38	-9.11	49.27	74.00	-24.73	peak			
2		2390.000	47.07	-9.11	37.96	54.00	-16.04	AVG			
3	*	2436.200	88.59	-9.10	79.49	54.00	25.49	AVG			
4	X	2437.000	90.29	-9.10	81.19	74.00	7.19	peak			
5		2483.500	58.89	-9.08	49.81	74.00	-24.19	peak			
6		2483.500	47.56	-9.08	38.48	54.00	-15.52	AVG			

Horizontal

Radiated Emission

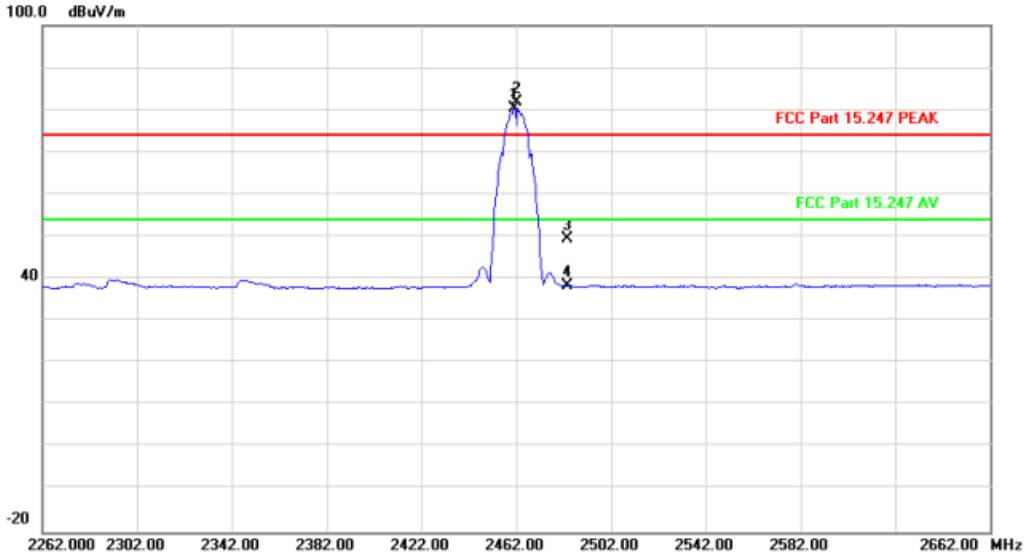


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	60.06	-9.11	50.95	74.00	-23.05	peak			
2		2390.000	48.98	-9.11	39.87	54.00	-14.13	AVG			
3	*	2436.200	103.72	-9.10	94.62	54.00	40.62	AVG			
4	X	2437.000	106.62	-9.10	97.52	74.00	23.52	peak			
5		2483.500	60.28	-9.08	51.20	74.00	-22.80	peak			
6		2483.500	48.22	-9.08	39.14	54.00	-14.86	AVG			

Test mode:	802.11b	Test channel: 11	Highest

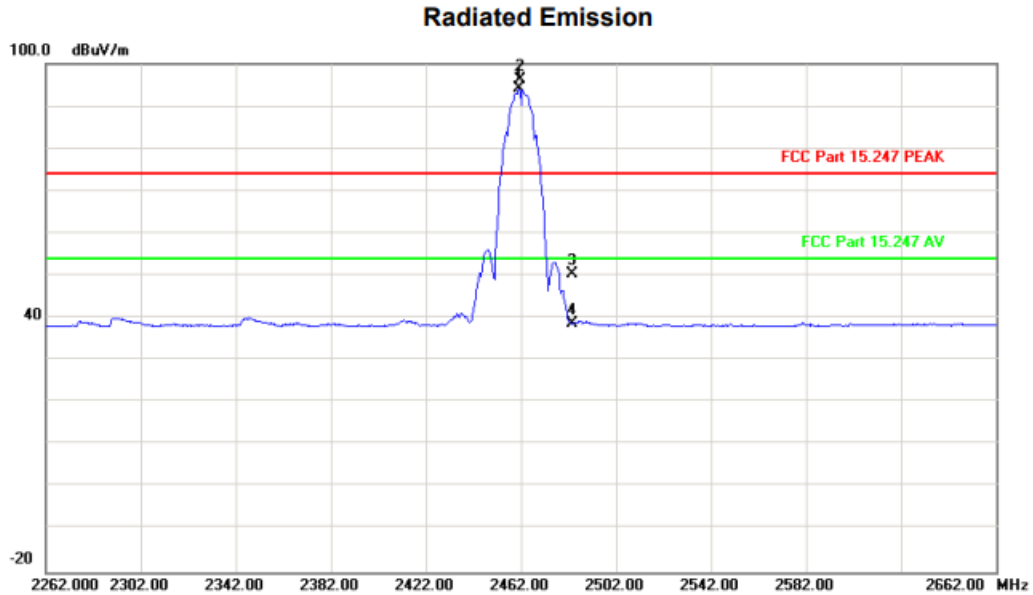
Vertical

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2461.200	89.42	-9.09	80.33	54.00	26.33	AVG			
2	X	2462.000	90.94	-9.09	81.85	74.00	7.85	peak			
3		2483.500	58.50	-9.08	49.42	74.00	-24.58	peak			
4		2483.500	47.35	-9.08	38.27	54.00	-15.73	AVG			

Horizontal

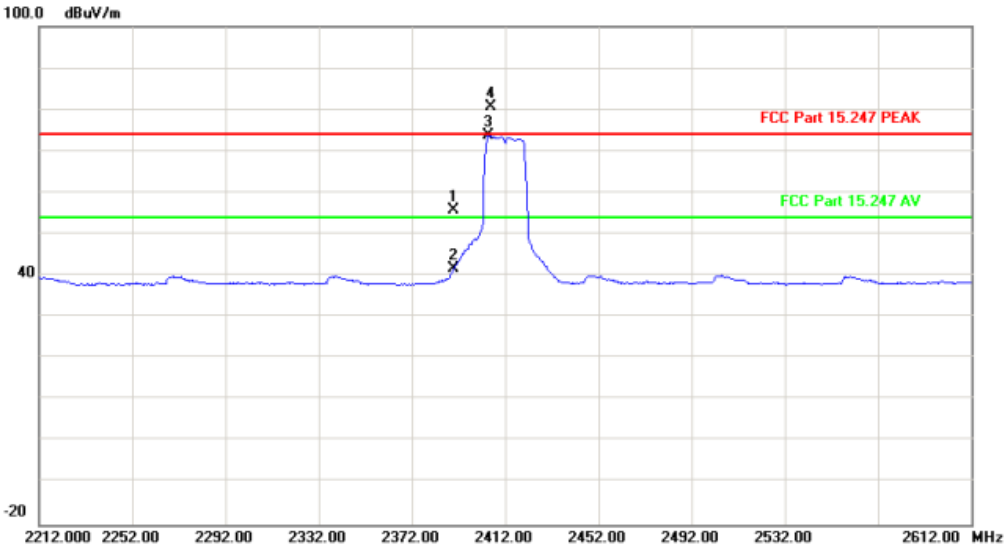


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2461.200	103.17	-9.09	94.08	54.00	40.08	AVG			
2	X	2461.600	105.20	-9.09	96.11	74.00	22.11	peak			
3		2483.500	59.37	-9.08	50.29	74.00	-23.71	peak			
4		2483.500	47.88	-9.08	38.80	54.00	-15.20	AVG			

Test mode:	802.11g	Test channel: 1	Lowest

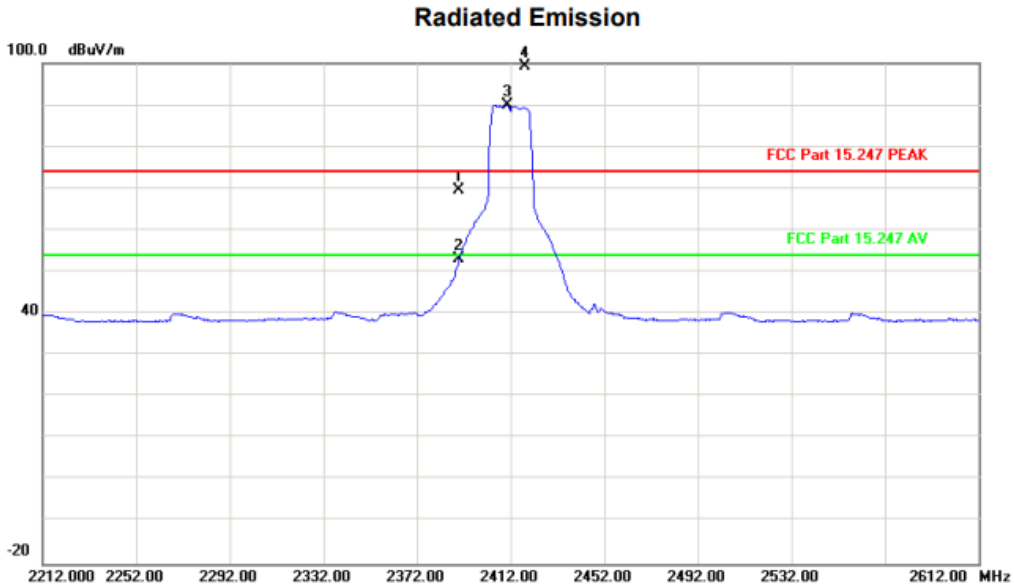
Vertical

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	64.94	-9.11	55.83	74.00	-18.17	peak			
2		2390.000	50.67	-9.11	41.56	54.00	-12.44	AVG			
3	*	2404.800	82.83	-9.10	73.73	54.00	19.73	AVG			
4	X	2405.610	89.85	-9.10	80.75	74.00	6.75	peak			

Horizontal

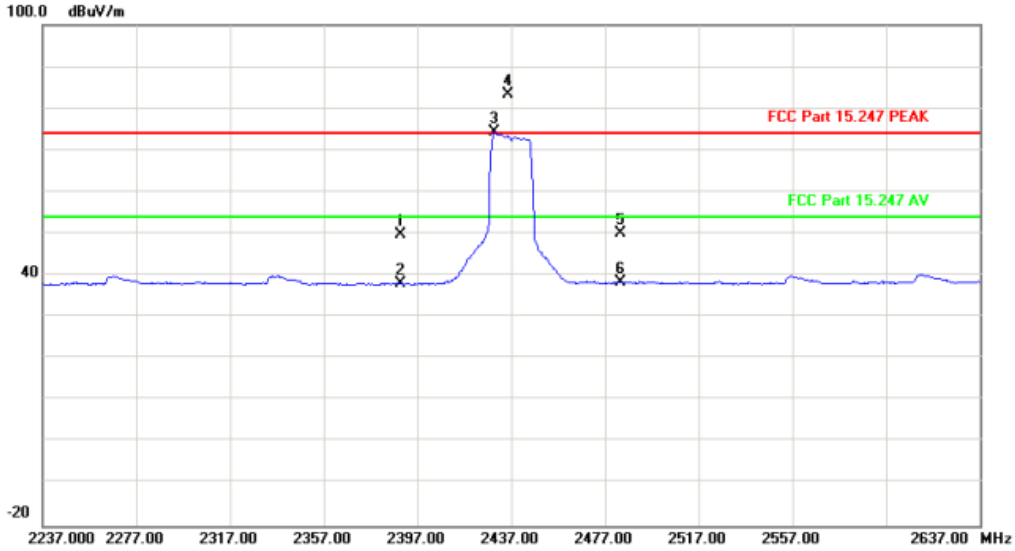


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	78.66	-9.11	69.55	74.00	-4.45	peak			
2		2390.000	62.03	-9.11	52.92	54.00	-1.08	AVG			
3	*	2410.400	99.17	-9.10	90.07	54.00	36.07	AVG			
4	X	2418.390	108.48	-9.10	99.38	74.00	25.38	peak			

Test mode:	802.11g	Test channel: 6	Middle

Vertical

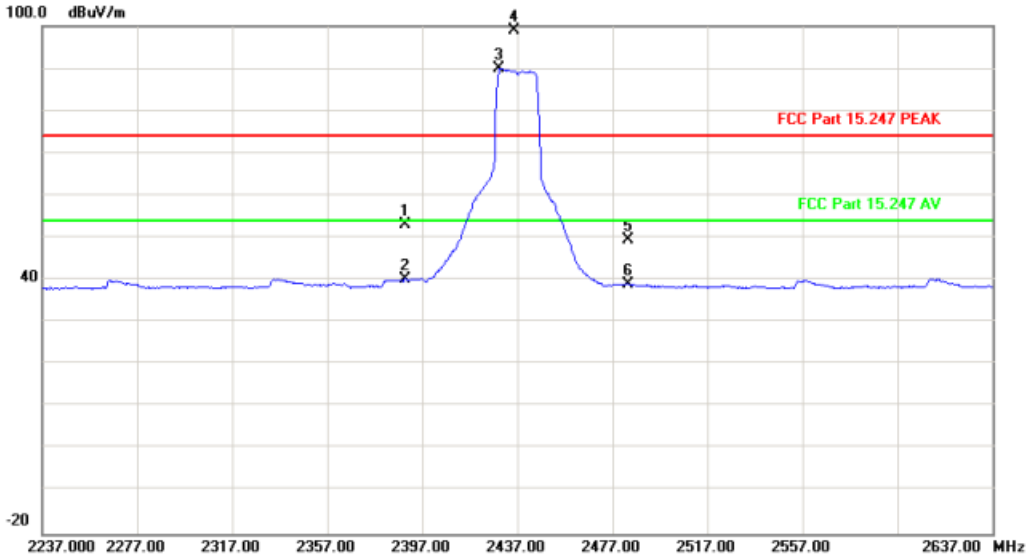
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	58.92	-9.11	49.81	74.00	-24.19	peak			
2		2390.000	47.08	-9.11	37.97	54.00	-16.03	AVG			
3	*	2429.800	83.31	-9.10	74.21	54.00	20.21	AVG			
4	X	2435.800	92.41	-9.10	83.31	74.00	9.31	peak			
5		2483.500	59.17	-9.08	50.09	74.00	-23.91	peak			
6		2483.500	47.55	-9.08	38.47	54.00	-15.53	AVG			

Horizontal

Radiated Emission

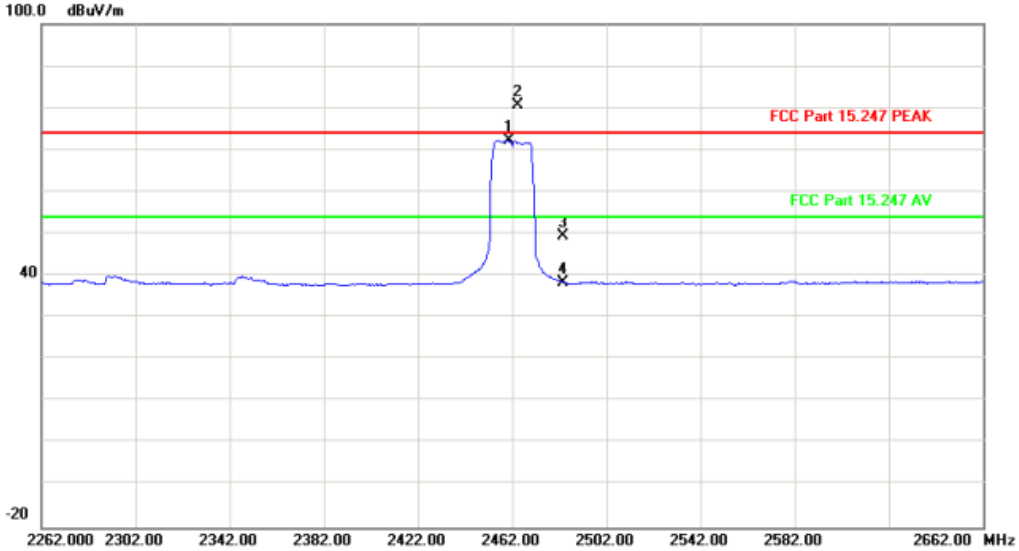


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	62.18	-9.11	53.07	74.00	-20.93	peak			
2		2390.000	49.25	-9.11	40.14	54.00	-13.86	AVG			
3	*	2429.400	99.15	-9.10	90.05	54.00	36.05	AVG			
4	X	2435.800	107.92	-9.10	98.82	74.00	24.82	peak			
5		2483.500	58.65	-9.08	49.57	74.00	-24.43	peak			
6		2483.500	48.02	-9.08	38.94	54.00	-15.06	AVG			

Test mode:	802.11g	Test channel: 11	Highest

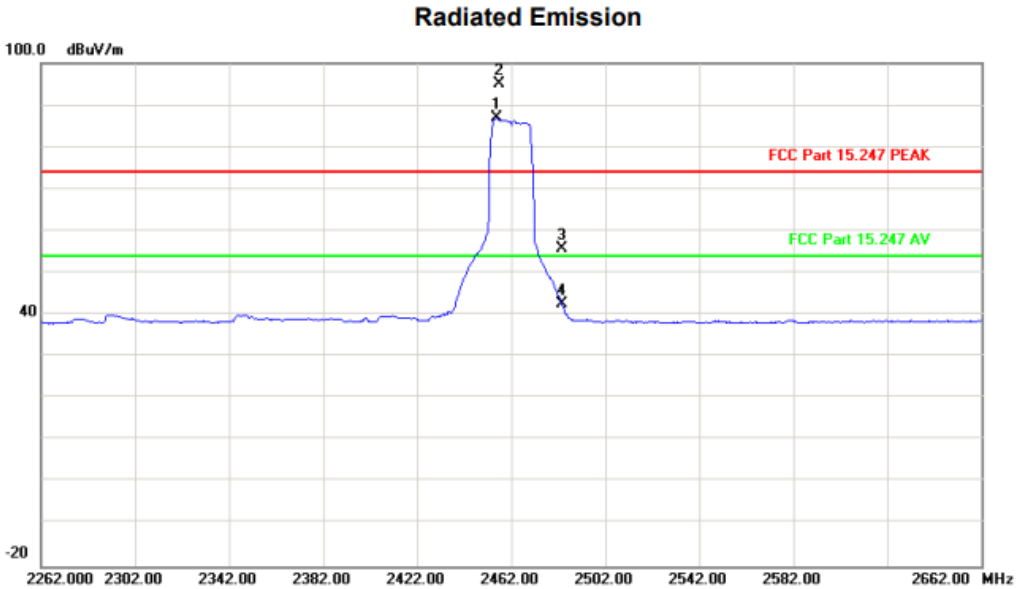
Vertical

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2460.800	81.38	-9.09	72.29	54.00	18.29	AVG			
2	X	2464.400	89.85	-9.09	80.76	74.00	6.76	peak			
3		2483.500	58.65	-9.08	49.57	74.00	-24.43	peak			
4		2483.500	47.47	-9.08	38.39	54.00	-15.61	AVG			

Horizontal

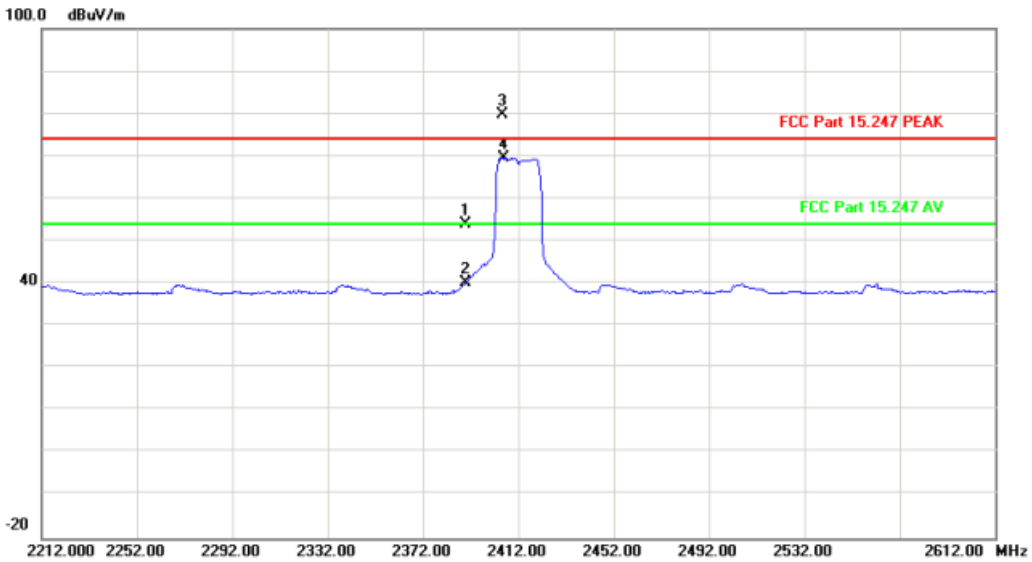


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2455.600	95.96	-9.09	86.87	54.00	32.87	AVG			
2	X	2456.810	104.20	-9.09	95.11	74.00	21.11	peak			
3		2483.500	64.78	-9.08	55.70	74.00	-18.30	peak			
4		2483.500	51.65	-9.08	42.57	54.00	-11.43	AVG			

Test mode:	802.11n(HT20)	Test channel: 1	Lowest

Vertical

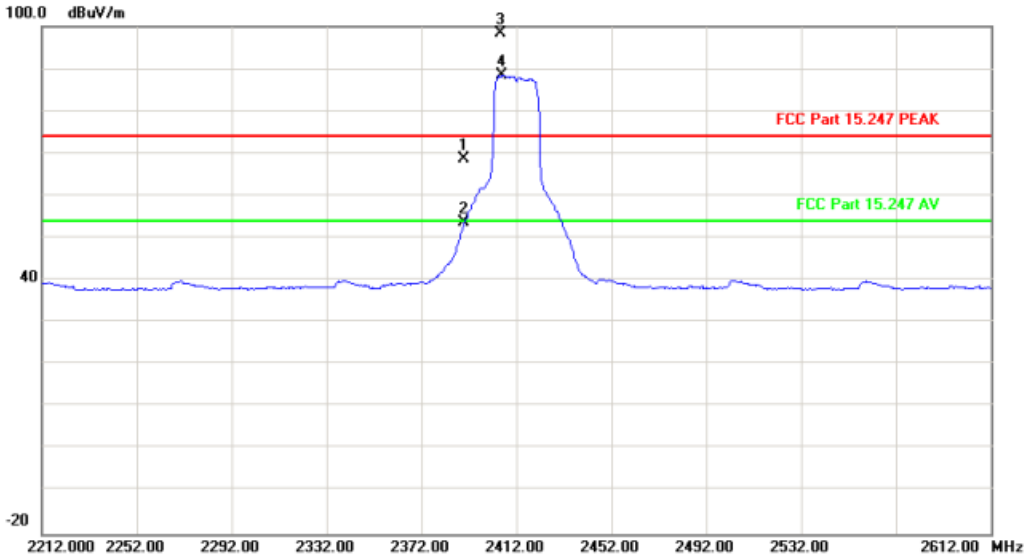
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	63.13	-9.11	54.02	74.00	-19.98	peak			
2		2390.000	49.38	-9.11	40.27	54.00	-13.73	AVG			
3	X	2405.210	88.94	-9.10	79.84	74.00	5.84	peak			
4	*	2406.000	78.63	-9.10	69.53	54.00	15.53	AVG			

Horizontal

Radiated Emission

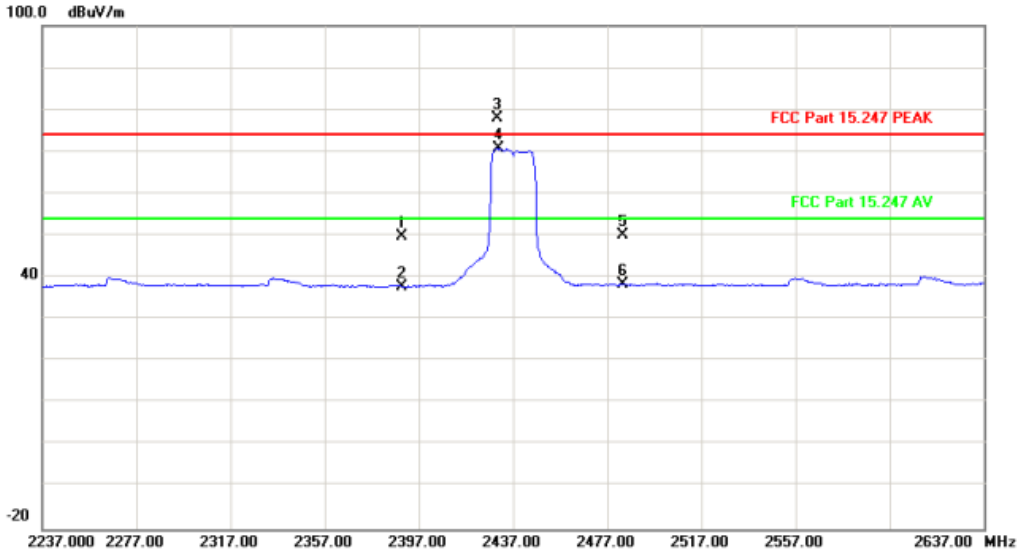


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	77.82	-9.11	68.71	74.00	-5.29	peak			
2		2390.000	62.62	-9.11	53.51	54.00	-0.49	AVG			
3	X	2405.210	107.32	-9.10	98.22	74.00	24.22	peak			
4	*	2406.000	97.46	-9.10	88.36	54.00	34.36	AVG			

Test mode:	802.11n(HT20)	Test channel: 6	Middle

Vertical

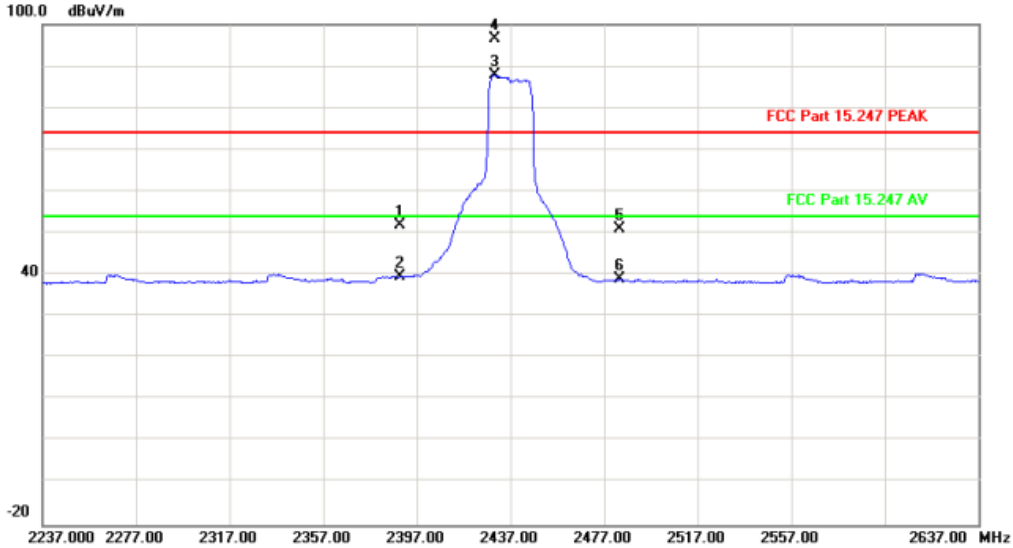
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	58.91	-9.11	49.80	74.00	-24.20	peak			
2		2390.000	46.99	-9.11	37.88	54.00	-16.12	AVG			
3	X	2430.210	87.09	-9.10	77.99	74.00	3.99	peak			
4	*	2431.000	79.84	-9.10	70.74	54.00	16.74	AVG			
5		2483.500	59.25	-9.08	50.17	74.00	-23.83	peak			
6		2483.500	47.43	-9.08	38.35	54.00	-15.65	AVG			

Horizontal

Radiated Emission

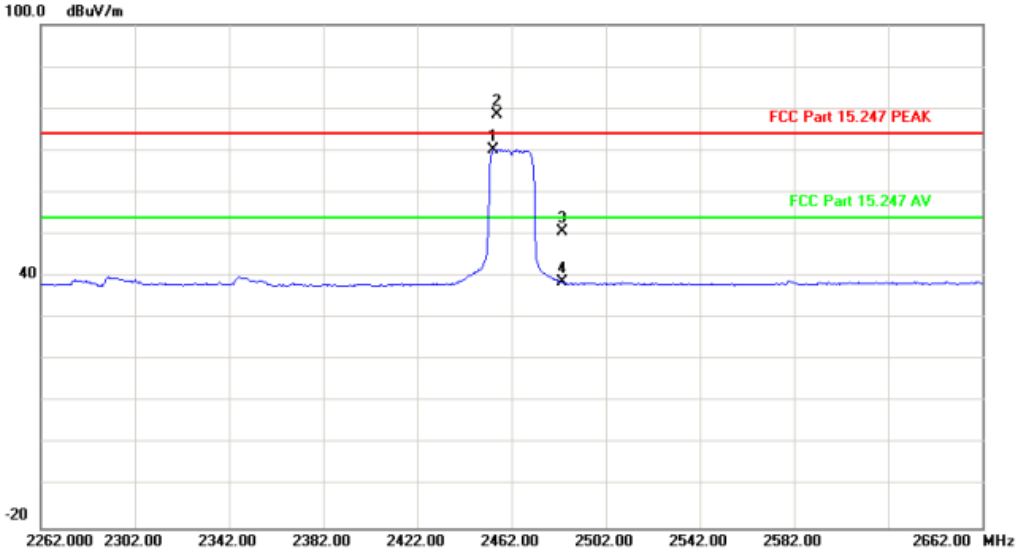


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	60.84	-9.11	51.73	74.00	-22.27	peak			
2		2390.000	48.66	-9.11	39.55	54.00	-14.45	AVG			
3	*	2430.200	96.95	-9.10	87.85	54.00	33.85	AVG			
4	X	2430.210	105.79	-9.10	96.69	74.00	22.69	peak			
5		2483.500	60.13	-9.08	51.05	74.00	-22.95	peak			
6		2483.500	47.95	-9.08	38.87	54.00	-15.13	AVG			

Test mode:	802.11n(HT20)	Test channel: 11	Highest

Vertical

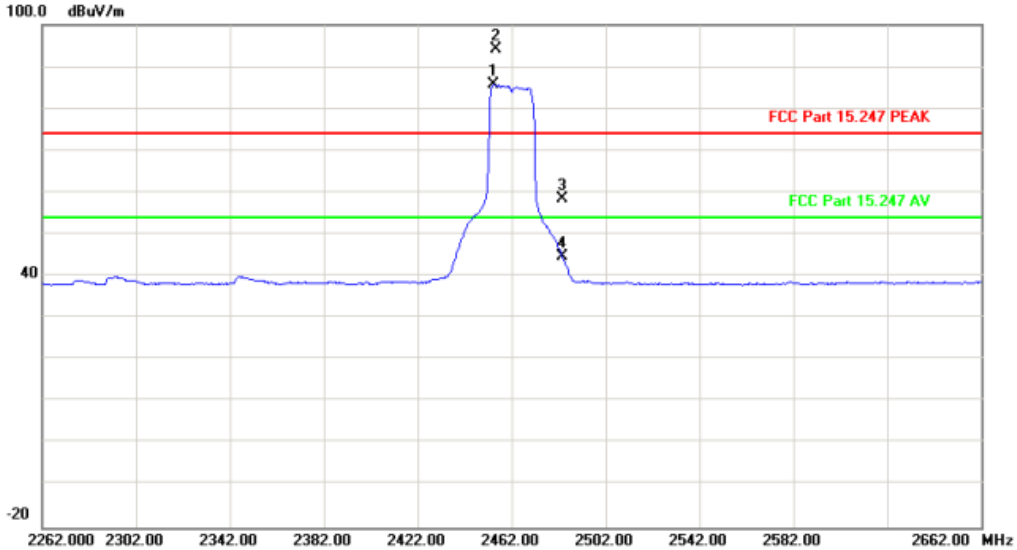
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2454.400	79.34	-9.09	70.25	54.00	16.25	AVG			
2	X	2455.610	87.70	-9.09	78.61	74.00	4.61	peak			
3		2483.500	59.62	-9.08	50.54	74.00	-23.46	peak			
4		2483.500	47.81	-9.08	38.73	54.00	-15.27	AVG			

Horizontal

Radiated Emission



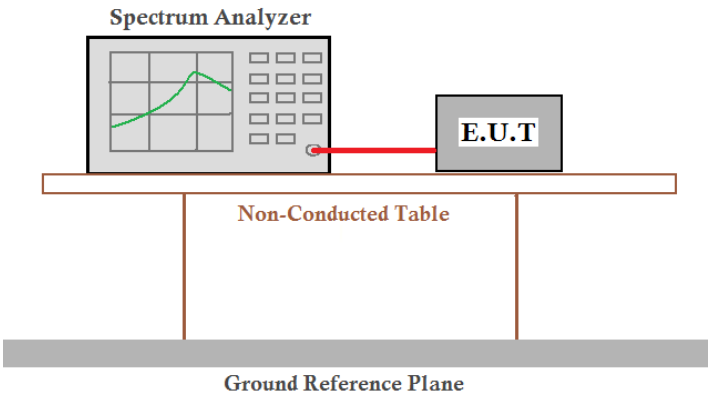
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2454.410	94.95	-9.09	85.86	54.00	31.86	AVG			
2	X	2455.210	103.21	-9.09	94.12	74.00	20.12	peak			
3		2483.500	67.56	-9.08	58.48	74.00	-15.52	peak			
4		2483.500	53.74	-9.08	44.66	54.00	-9.34	AVG			

Remarks:

1. *The pre-test were performed on lowest, middle and highest frequencies.*
2. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

7.7 Spurious Emission

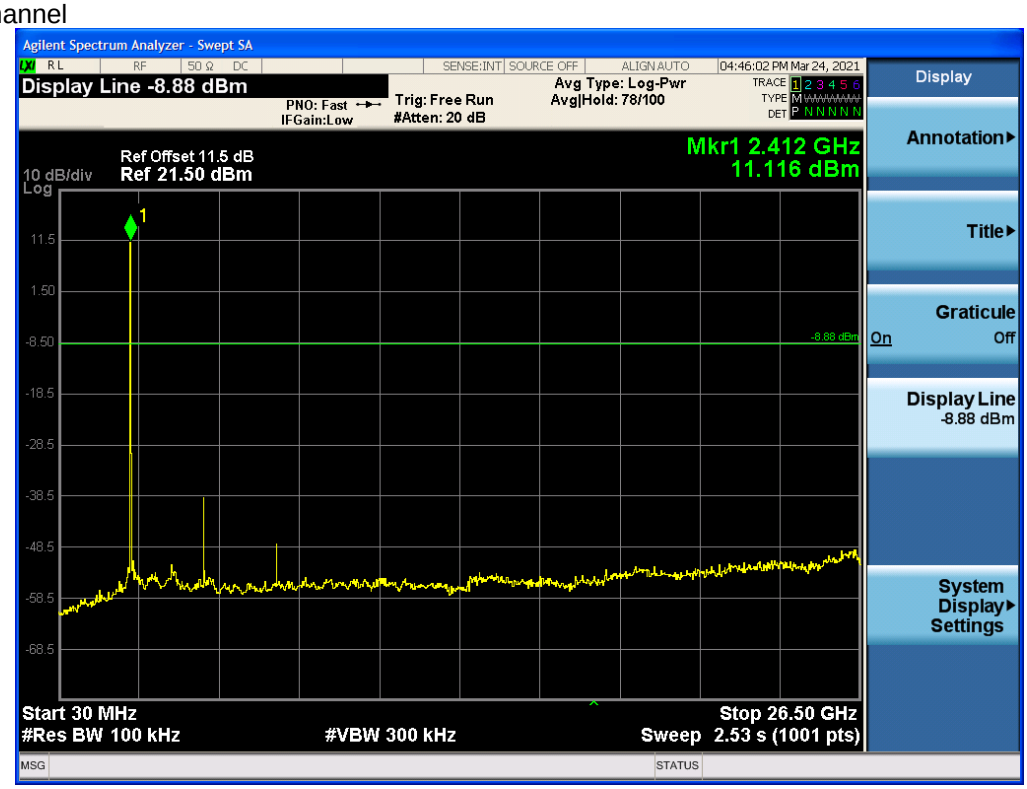
7.7.1 Conducted Emission Method

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

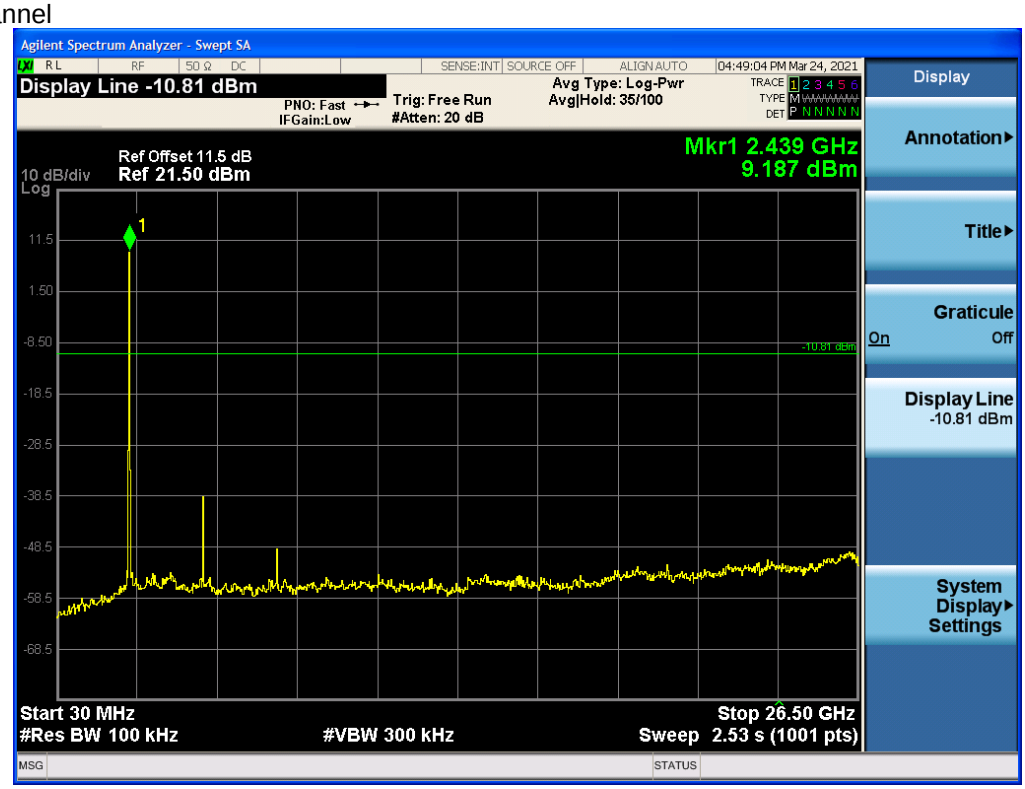
Test plot as follows:

802.11b

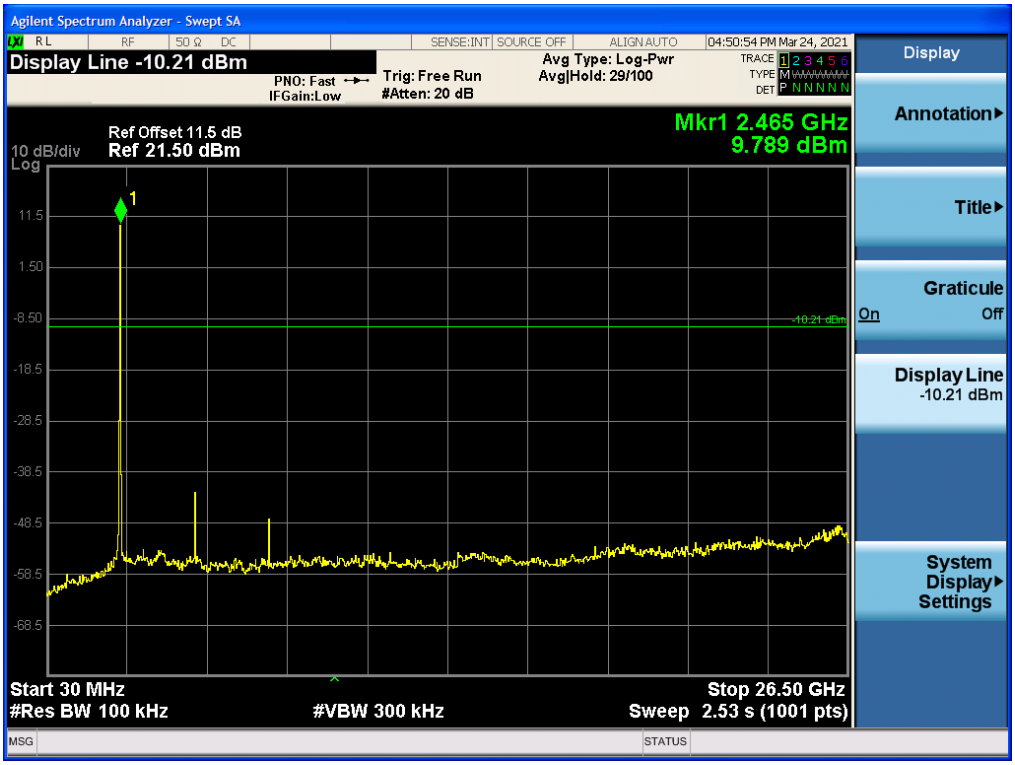
Lowest channel



Middle channel

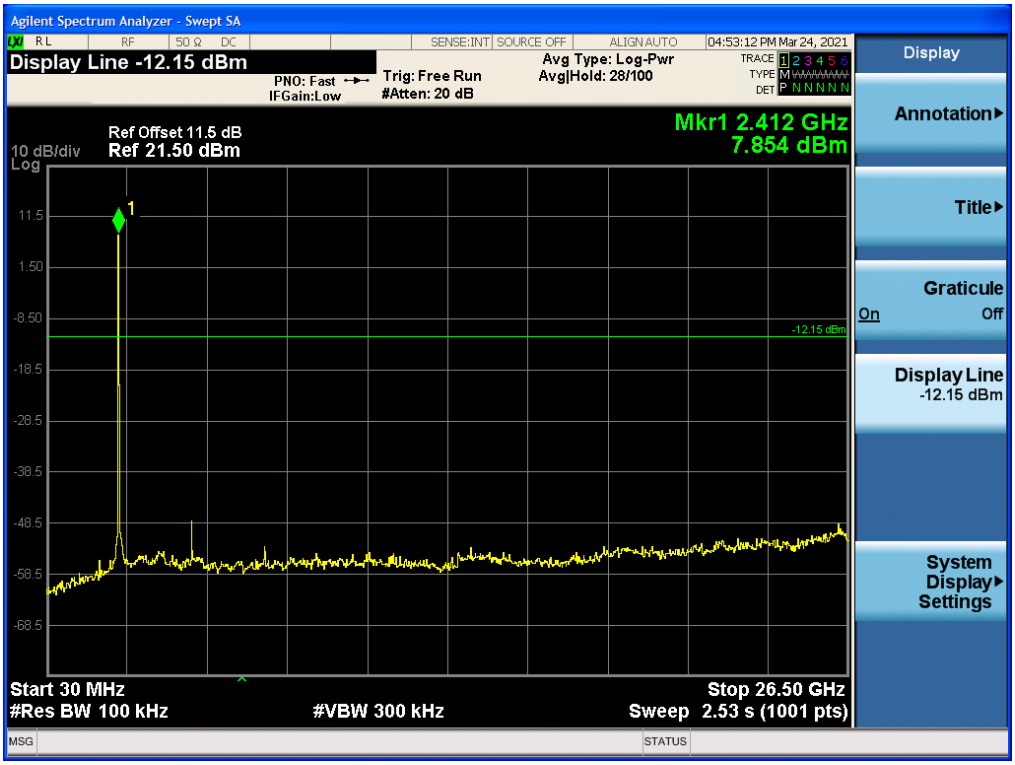


Highest channel

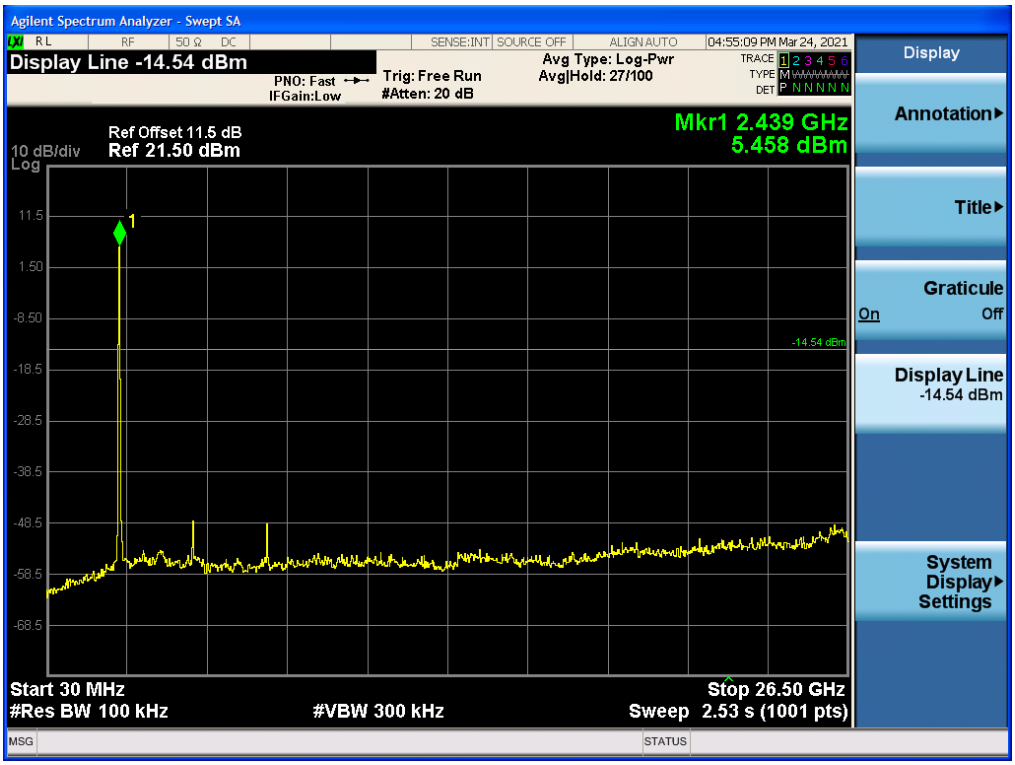


802.11g

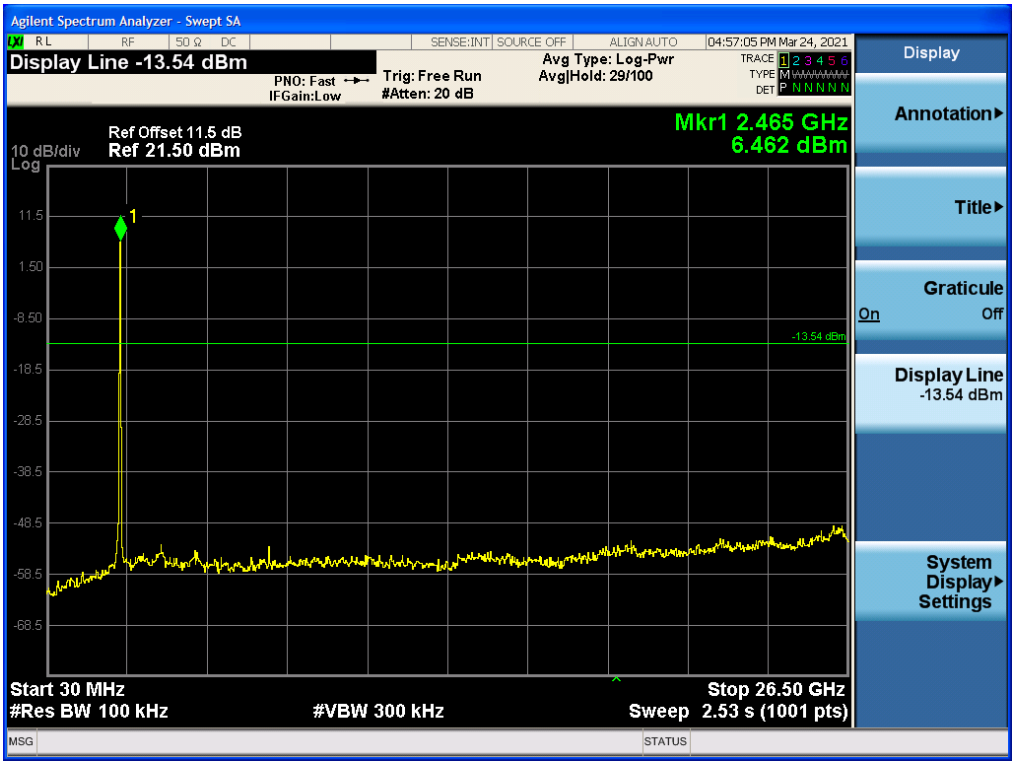
Lowest channel



Middle channel

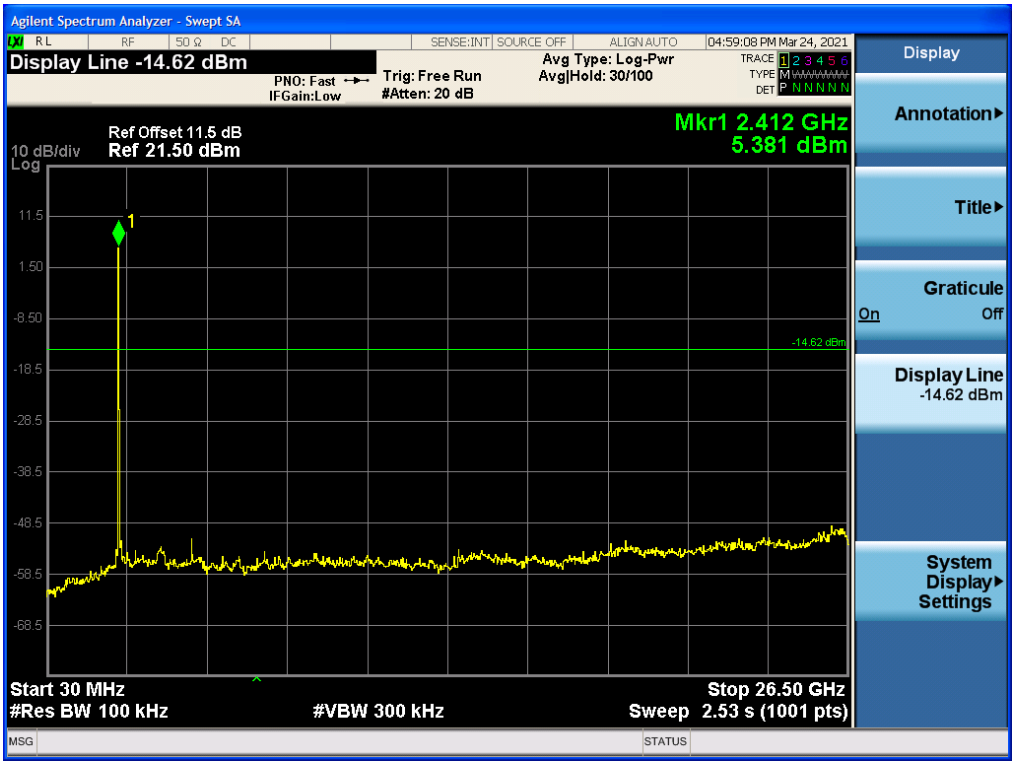


Highest channel

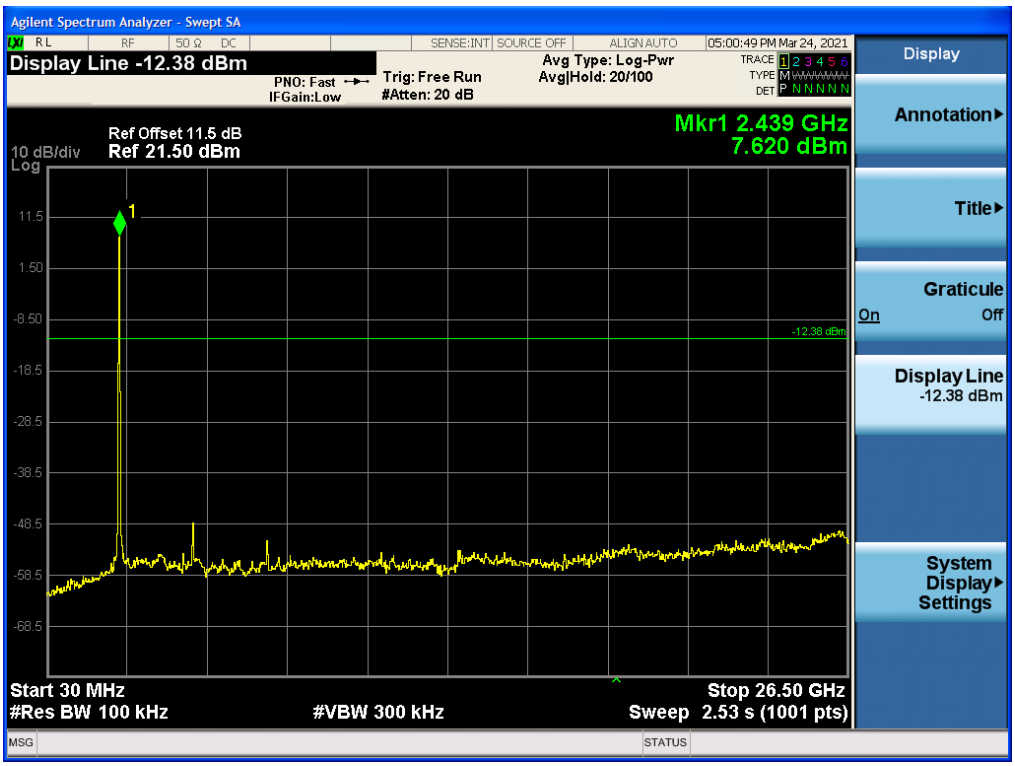


802.11n(HT20)

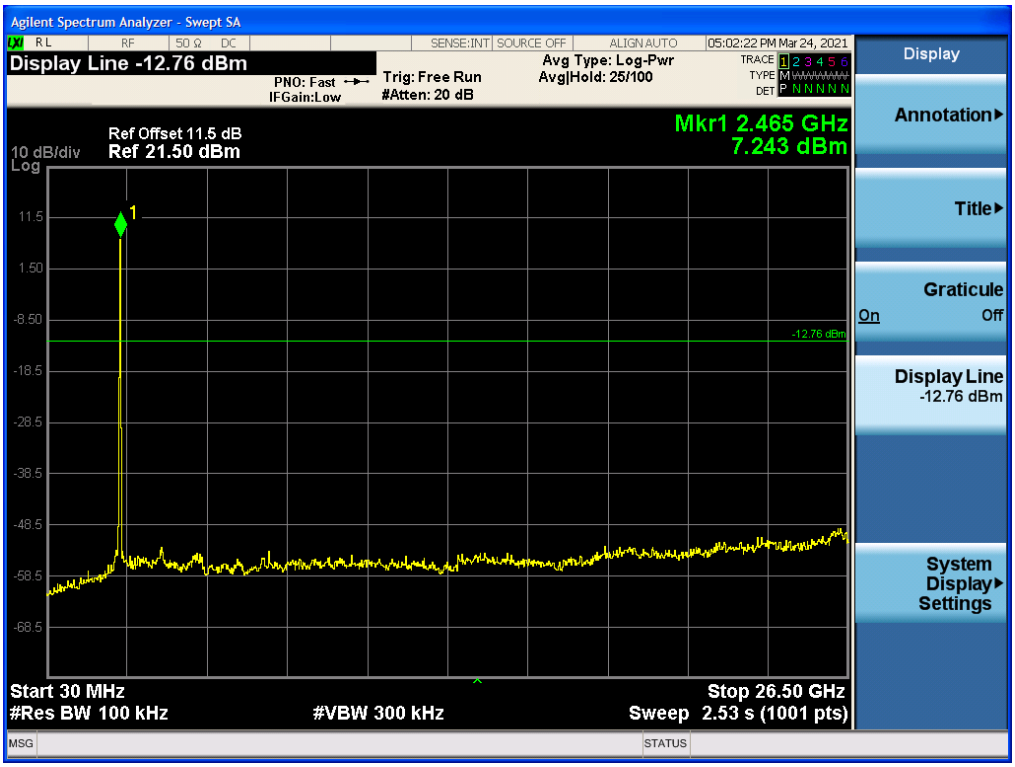
Lowest channel



Middle channel



Highest channel



7.7.2 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:

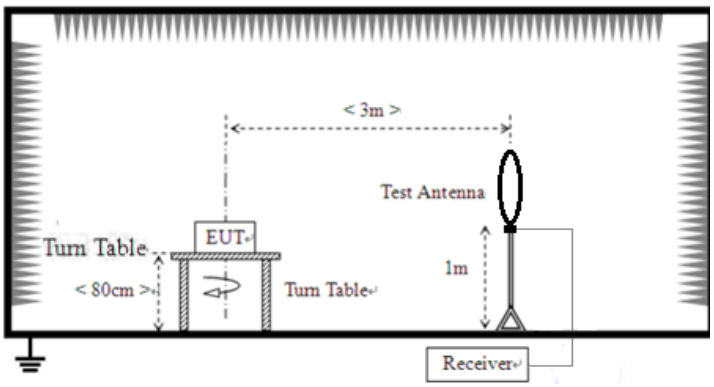
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

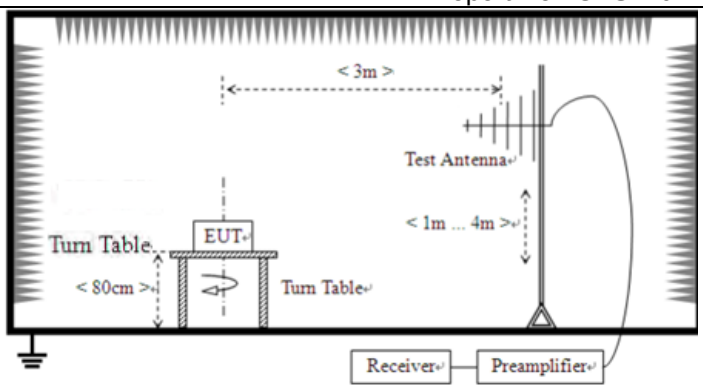
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	300m
1.705MHz-30MHz	30	QP	30m
30MHz-88MHz	100	QP	3m
88MHz-216MHz	150	QP	
216MHz-960MHz	200	QP	
960MHz-1GHz	500	QP	
Above 1GHz	500	Average	
	5000	Peak	

Test setup:

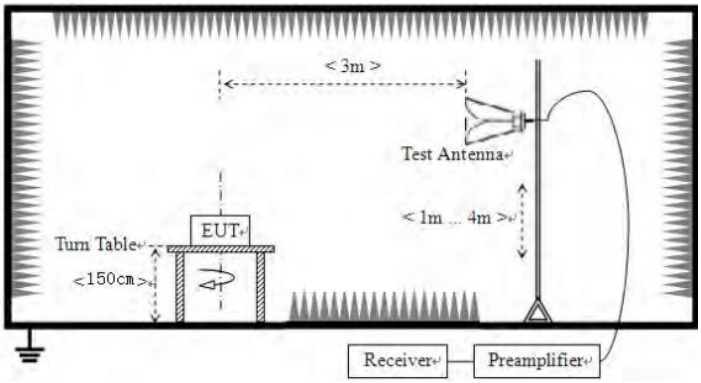
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:	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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 6.0 for details

Test mode:	Refer to section 5.2 for details					
Test voltage:	AC120V 60Hz					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

1. *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:

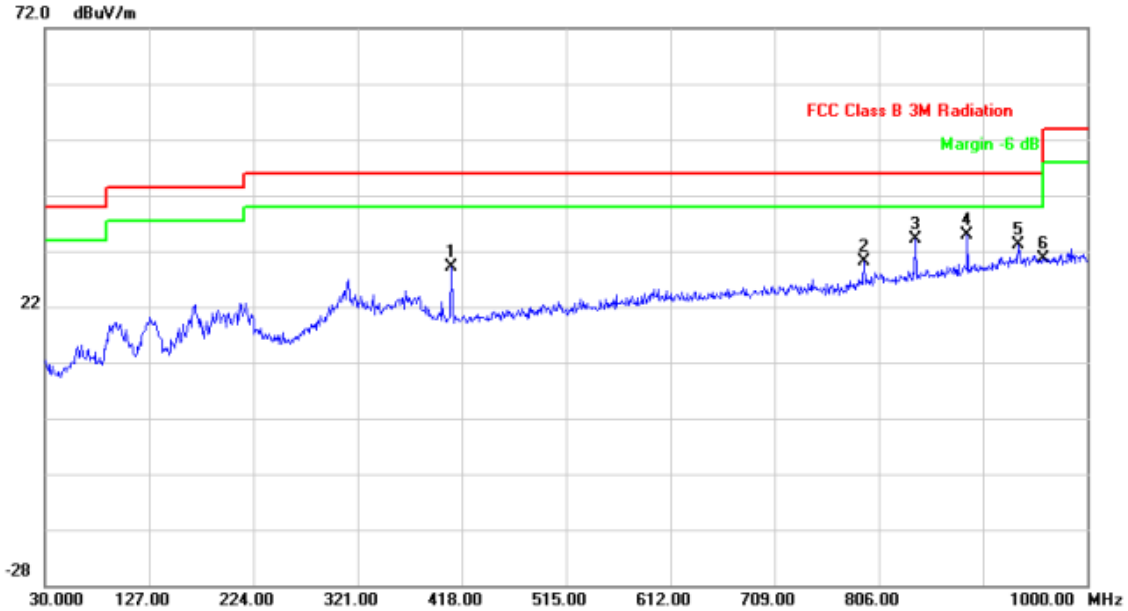
- **9kHz~30MHz**

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.

■ **Below 1GHz**

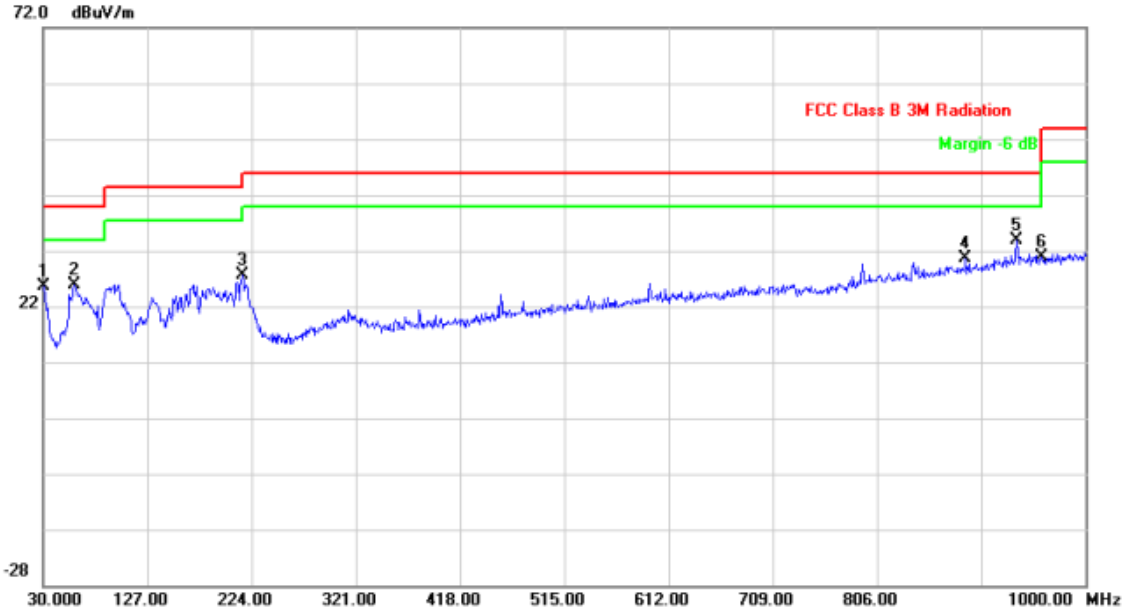
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		408.3000	9.74	19.29	29.03	46.00	-16.97	QP	100	326	
2		792.4200	3.63	26.41	30.04	46.00	-15.96	QP	100	285	
3		839.9500	6.70	27.35	34.05	46.00	-11.95	QP	100	297	
4	*	888.4500	6.42	28.35	34.77	46.00	-11.23	QP	100	1	
5		935.9800	3.25	30.00	33.25	46.00	-12.75	QP	100	29	
6		959.2600	0.40	30.16	30.56	46.00	-15.44	QP	100	94	

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	11.50	14.21	25.71	40.00	-14.29	QP	100	344	
2		59.1000	11.27	14.64	25.91	40.00	-14.09	QP	100	114	
3		215.2700	11.69	15.83	27.52	43.50	-15.98	QP	100	359	
4		888.4500	2.34	28.35	30.69	46.00	-15.31	QP	100	99	
5	*	935.9800	3.94	30.00	33.94	46.00	-12.06	QP	100	251	
6		959.2600	0.77	30.16	30.93	46.00	-15.07	QP	200	30	

■ **Above 1GHz**

Test mode:	802.11b	Test channel: 1	Lowest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	57.30	-1.66	55.64	74.00	-18.36	peak			
2	*	4819.260	54.95	-1.66	53.29	54.00	-0.71	AVG			
3		7239.250	46.13	4.43	50.56	74.00	-23.44	peak			
4		7239.330	40.67	4.43	45.10	54.00	-8.90	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	56.70	-1.66	55.04	74.00	-18.96	peak			
2	*	4824.000	54.60	-1.63	52.97	54.00	-1.03	AVG			
3		7236.000	48.86	4.42	53.28	74.00	-20.72	peak			
4		7239.250	43.05	4.43	47.48	54.00	-6.52	AVG			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11b	Test channel: 6	Middle

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4877.500	46.87	-1.29	45.58	74.00	-28.42	peak			
2	*	4879.150	43.12	-1.28	41.84	54.00	-12.16	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4874.000	55.32	-1.31	54.01	74.00	-19.99	peak			
2	*	4877.500	53.16	-1.29	51.87	54.00	-2.13	AVG			
3		7309.750	48.94	4.54	53.48	74.00	-20.52	peak			
4		7310.000	42.48	4.54	47.02	54.00	-6.98	AVG			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11b	Test channel: 11	Highest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.500	46.23	-0.99	45.24	74.00	-28.76	peak			
2	*	4925.870	43.87	-0.98	42.89	54.00	-11.11	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.000	54.78	-0.99	53.79	74.00	-20.21	peak			
2	*	4924.500	52.53	-0.99	51.54	54.00	-2.46	AVG			
3		7386.000	40.15	4.67	44.82	54.00	-9.18	AVG			
4		7392.000	46.72	4.68	51.40	74.00	-22.60	peak			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11g	Test channel: 1	lowest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4807.000	53.82	-1.74	52.08	74.00	-21.92	peak			
2		4824.000	42.96	-1.63	41.33	54.00	-12.67	AVG			
3		7227.500	51.78	4.41	56.19	74.00	-17.81	peak			
4	*	7230.000	39.80	4.41	44.21	54.00	-9.79	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	60.71	-1.66	59.05	74.00	-14.95	peak			
2		4824.000	49.39	-1.63	47.76	54.00	-6.24	AVG			
3	*	7236.000	43.86	4.42	48.28	54.00	-5.72	AVG			
4		7251.000	55.99	4.45	60.44	74.00	-13.56	peak			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11g	Test channel: 6	Middle

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4877.500	48.43	-1.29	47.14	74.00	-26.86	peak			
2		4879.100	36.74	-1.28	35.46	54.00	-18.54	AVG			
3	*	7308.000	37.45	4.54	41.99	54.00	-12.01	AVG			
4		7309.750	48.76	4.54	53.30	74.00	-20.70	peak			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4865.750	57.69	-1.36	56.33	74.00	-17.67	peak			
2		4872.000	45.45	-1.32	44.13	54.00	-9.87	AVG			
3		7298.000	55.45	4.52	59.97	74.00	-14.03	peak			
4	*	7308.000	43.66	4.54	48.20	54.00	-5.80	AVG			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11g	Test channel: 11	Highest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.500	47.17	-0.99	46.18	74.00	-27.82	peak			
2		4926.200	35.74	-0.98	34.76	54.00	-19.24	AVG			
3		7392.000	45.84	4.68	50.52	74.00	-23.48	peak			
4	*	7394.200	33.97	4.68	38.65	54.00	-15.35	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.000	45.01	-0.99	44.02	54.00	-9.98	AVG			
2		4924.500	58.11	-0.99	57.12	74.00	-16.88	peak			
3	*	7384.000	40.87	4.66	45.53	54.00	-8.47	AVG			
4		7392.000	52.48	4.68	57.16	74.00	-16.84	peak			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel: 1	Lowest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	53.19	-1.66	51.53	74.00	-22.47	peak			
2		4819.600	41.22	-1.66	39.56	54.00	-14.44	AVG			
3	*	7230.000	38.86	4.41	43.27	54.00	-10.73	AVG			
4		7239.250	52.41	4.43	56.84	74.00	-17.16	peak			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	60.11	-1.66	58.45	74.00	-15.55	peak			
2		4824.000	47.88	-1.63	46.25	54.00	-7.75	AVG			
3	*	7236.000	42.33	4.42	46.75	54.00	-7.25	AVG			
4		7239.250	54.76	4.43	59.19	74.00	-14.81	peak			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel: 6	Middle

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4865.750	51.88	-1.36	50.52	74.00	-23.48	peak			
2		4867.150	39.72	-1.35	38.37	54.00	-15.63	AVG			
3		7309.750	51.96	4.54	56.50	74.00	-17.50	peak			
4	*	7311.000	40.41	4.54	44.95	54.00	-9.05	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4865.750	54.11	-1.36	52.75	74.00	-21.25	peak			
2		4873.000	42.30	-1.32	40.98	54.00	-13.02	AVG			
3		7309.750	57.46	4.54	62.00	74.00	-12.00	peak			
4	*	7311.000	45.95	4.54	50.49	54.00	-3.51	AVG			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel: 11	Highest

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.500	51.10	-0.99	50.11	74.00	-23.89	peak			
2		4925.950	38.97	-0.98	37.99	54.00	-16.01	AVG			
3		7380.250	48.38	4.66	53.04	74.00	-20.96	peak			
4	*	7384.000	36.95	4.66	41.61	54.00	-12.39	AVG			

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.000	39.79	-0.99	38.80	54.00	-15.20	AVG			
2		4924.500	52.20	-0.99	51.21	74.00	-22.79	peak			
3	*	7382.000	42.88	4.66	47.54	54.00	-6.46	AVG			
4		7392.000	54.63	4.68	59.31	74.00	-14.69	peak			

Remarks:
The emission levels of other frequencies are 20dB lower than the limit and not show in test report.

8 Test Setup Photo

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

9 EUT Constructional Details

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

------End------