

# TEST REPORT

<b>FCC ID</b> .....	2ACJAHNDPF1008	
<b>Test Report No</b> .....	TCT210608E016	
<b>Date of issue</b> .....	Jun. 21, 2021	
<b>Testing laboratory</b> .....	SHENZHEN TONGCE TESTING LAB	
<b>Testing location/ address:</b>	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
<b>Applicant's name</b> .....	Shenzhen Harmony Technology Co., Ltd	
<b>Address</b> .....	Block 2, Jiayuan Industrial Zone, Heping Community, high-tech park, No 2 Fuyuan Road, Fuyong, Bao'an, Shenzhen, China	
<b>Manufacturer's name</b> ...	Shenzhen Harmony Technology Co., Ltd	
<b>Address</b> .....	Block 2, Jiayuan Industrial Zone, Heping Community, high-tech park, No 2 Fuyuan Road, Fuyong, Bao'an, Shenzhen, China	
<b>Standard(s)</b> .....	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	
<b>Test item description</b> .....	Social Photo Frame	
<b>Trade Mark</b> .....	N/A	
<b>Model/Type reference</b> .....	HN-DPF1008, HN-DPF10XX(XX=00-99)	
<b>Rating(s)</b> .....	Adapter Information: MODEL: RSF-DY056-0502000 INPUT: AC 100-240V, 50/60Hz, 0.4A OUTPUT: DC 5V, 2.0A	
<b>Date of receipt of test item</b> .....	Jun. 08, 2021	
<b>Date (s) of performance of test</b> .....	Jun. 18, 2021	
<b>Tested by (+signature)</b> ...	Aaron Mo	<i>Aaron Mo</i>
<b>Check by (+signature)</b> ....	Beryl Zhao	<i>Beryl Zhao</i>
<b>Approved by (+signature)</b> :	Tomsin	<i>Tomsin</i>

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## 1. General Product Information

### 1.1. EUT description

Test item description .....	Social Photo Frame
Model/Type reference.....	HN-DPF1008
Sample Number.....	TCT210608E016-0101
Operation Frequency .....	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation.....	5MHz
Number of Channel .....	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology .....	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed .....	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type.....	Internal Antenna
Antenna Gain.....	0dBi
Rating(s).....	Adapter Information: MODEL: RSF-DY056-0502000 INPUT: AC 100-240V, 50/60Hz, 0.4A OUTPUT: DC 5V, 2.0A
Remark.....	/

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

No.	Model No.	Tested with
1	HN-DPF1008	<input checked="" type="checkbox"/>
Other models	HN-DPF10XX(XX=00-99)	<input type="checkbox"/>

Note: HN-DPF1008 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of HN-DPF1008 can represent the remaining models.

### 1.3. Operation Frequency

**For 802.11b/g/n(HT20)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	--	--

**For 802.11n (HT40)**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
--	--	4	2427MHz	7	2442MHz	--	--
--	--	5	2432MHz	8	2447MHz	--	--
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:*

**802.11b/802.11g/802.11n (HT20)**

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

**802.11n (HT40)**

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. General Information

#### 3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25.0 °C	25.0 °C
Humidity:	55 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%).	
Software Information:	cmd command	
Power Level:	Defaults	

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.

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:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

### 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 4. Facilities and Accreditations

### 4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

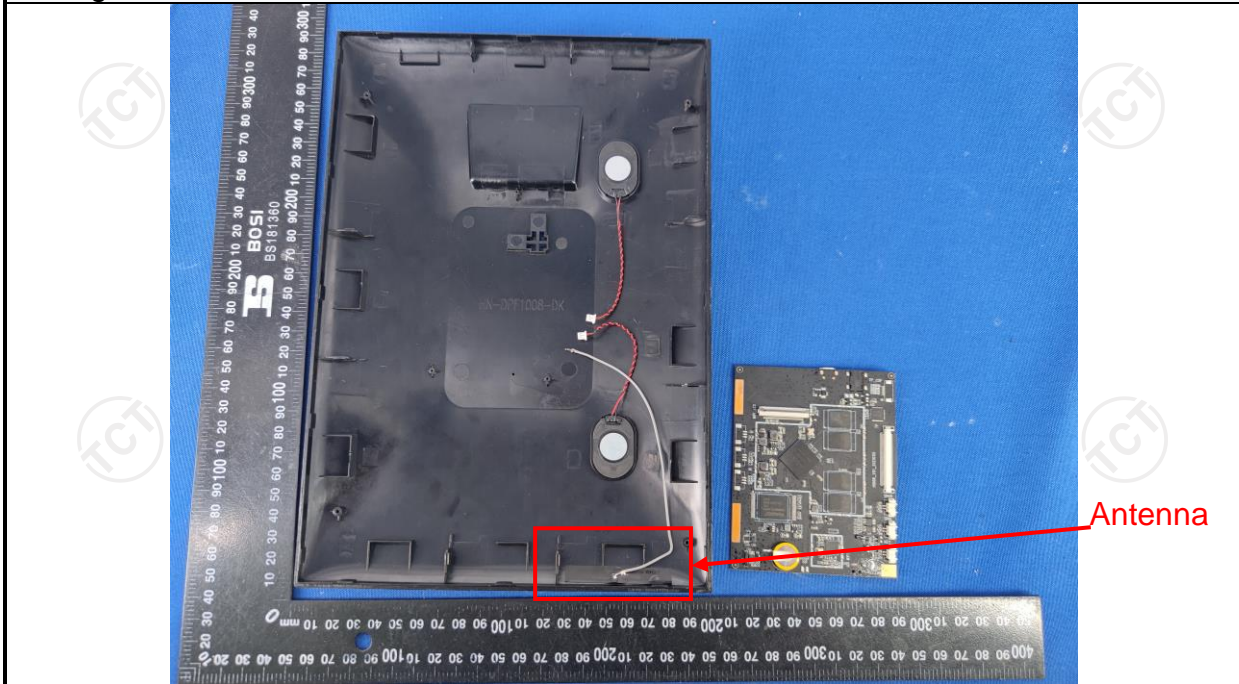
No.	Item	MU
1	Conducted Emission	$\pm 3.10$ dB
2	RF power, conducted	$\pm 0.12$ dB
3	Spurious emissions, conducted	$\pm 0.11$ dB
4	All emissions, radiated(<1 GHz)	$\pm 4.56$ dB
5	All emissions, radiated(1 GHz - 18 GHz)	$\pm 4.22$ dB
6	All emissions, radiated(18 GHz- 40 GHz)	$\pm 4.36$ dB



## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

<b>Standard requirement:</b>	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.	
<b>E.U.T Antenna:</b>	
The WIFI antennas are internal antennas which permanently attached, and the best case gains of the both antennas are 0dBi.	



## 5.2. Conducted Emission

### 5.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<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													
<b>Test Setup:</b>	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Charging + transmitting with modulation														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The E.U.T is 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.</li> <li>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).</li> <li>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.</li> </ol>														
<b>Test Result:</b>	PASS														

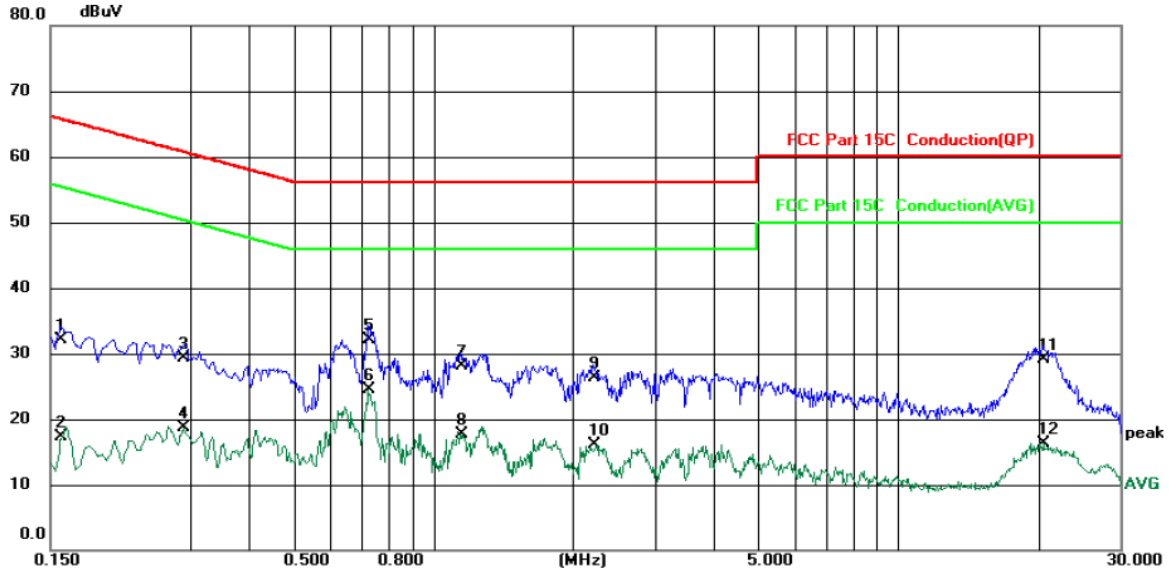
**5.2.2. Test Instruments**

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Test Receiver	R&S	ESCI3	100898	Jul. 28, 2020	Jul. 27, 2021
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 12, 2020	Sep. 11, 2021
Line-5	TCT	CE-05	N/A	Sep. 03, 2020	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site: \_\_\_\_\_ Phase: **L1** Temperature: 24.3 (C)  
Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Humidity: 42 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	22.70	9.45	32.15	65.57	-33.42	QP	
2		0.1580	7.91	9.45	17.36	55.57	-38.21	AVG	
3		0.2900	20.00	9.36	29.36	60.52	-31.16	QP	
4		0.2900	9.35	9.36	18.71	50.52	-31.81	AVG	
5		0.7260	22.90	9.25	32.15	56.00	-23.85	QP	
6	*	0.7260	15.23	9.25	24.48	46.00	-21.52	AVG	
7		1.1460	18.70	9.41	28.11	56.00	-27.89	QP	
8		1.1460	8.30	9.41	17.71	46.00	-28.29	AVG	
9		2.2060	16.80	9.51	26.31	56.00	-29.69	QP	
10		2.2060	6.69	9.51	16.20	46.00	-29.80	AVG	
11		20.5780	19.10	10.08	29.18	60.00	-30.82	QP	
12		20.5780	6.23	10.08	16.31	50.00	-33.69	AVG	

**Note:**

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

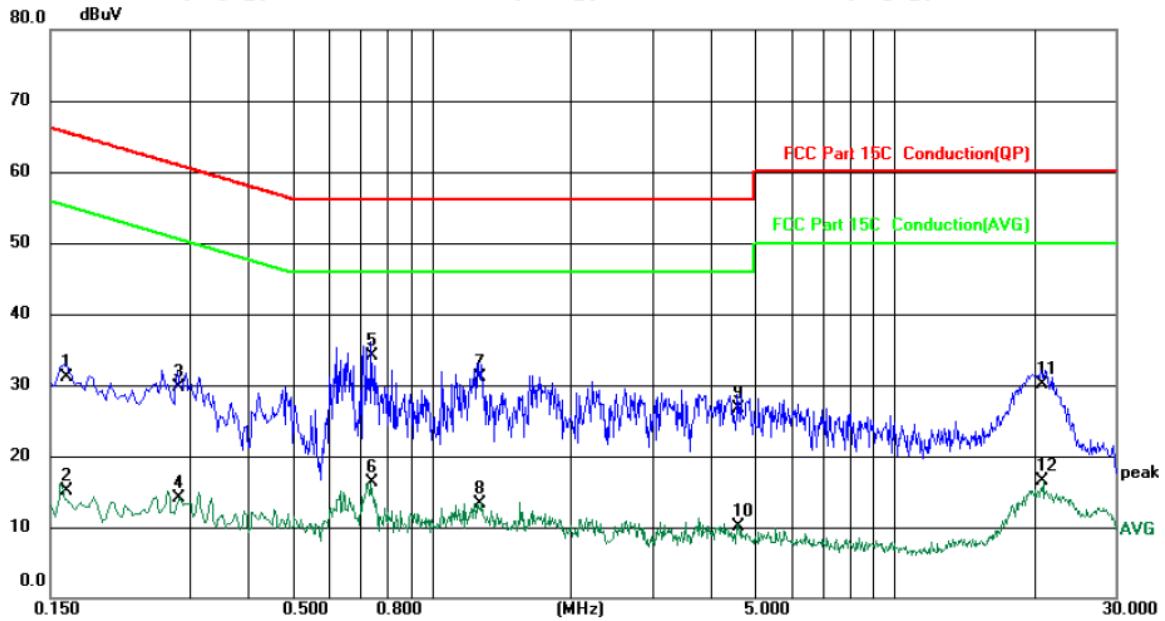
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

**Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)**



Site: \_\_\_\_\_ Phase: **N** Temperature: 24.3 (C)  
Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Humidity: 42 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	21.60	9.43	31.03	65.36	-34.33	QP	
2		0.1620	5.69	9.43	15.12	55.36	-40.24	AVG	
3		0.2819	20.40	9.38	29.78	60.76	-30.98	QP	
4		0.2819	4.71	9.38	14.09	50.76	-36.67	AVG	
5	*	0.7420	24.80	9.28	34.08	56.00	-21.92	QP	
6		0.7420	7.06	9.28	16.34	46.00	-29.66	AVG	
7		1.2660	21.70	9.41	31.11	56.00	-24.89	QP	
8		1.2660	3.96	9.41	13.37	46.00	-32.63	AVG	
9		4.5900	17.20	9.52	26.72	56.00	-29.28	QP	
10		4.5900	0.68	9.52	10.20	46.00	-35.80	AVG	
11		20.7460	20.00	10.07	30.07	60.00	-29.93	QP	
12		20.7460	6.46	10.07	16.53	50.00	-33.47	AVG	


**Note:**

- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = LISN factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak
- AVG =average
- \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



## 5.4. Emission Bandwidth

### 5.4.1. Test Specification


<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (a)(2)
<b>Test Method:</b>	KDB 558074 D01 v05r02
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>2. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>3. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 5.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020	Sep. 11, 2021
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020	Sep. 11, 2021

## 5.5. Power Spectral Density

### 5.5.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.247 (e)
<b>Test Method:</b>	KDB 558074
<b>Limit:</b>	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>. Video bandwidth <math>\text{VBW} \geq 3 \times \text{RBW}</math>. Set the span to at least 1.5 times the OBW.</li> <li>4. Detector = RMS, Sweep time = auto couple.</li> <li>5. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>6. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 5.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020	Sep. 11, 2021
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020	Sep. 11, 2021





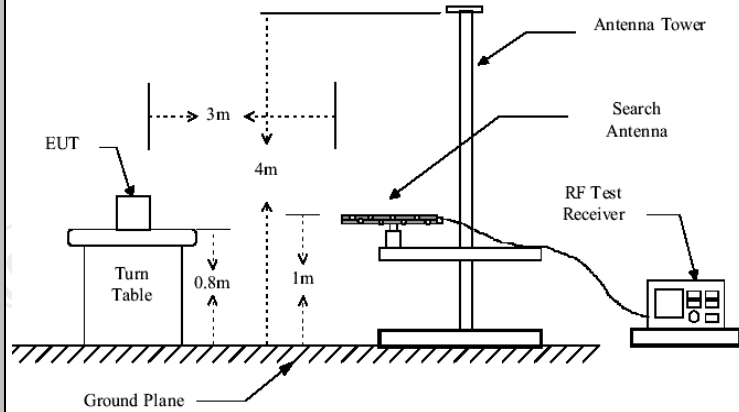
**5.6.2. Test Instruments**

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020	Sep. 11, 2021
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020	Sep. 11, 2021
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020	Sep. 11, 2021

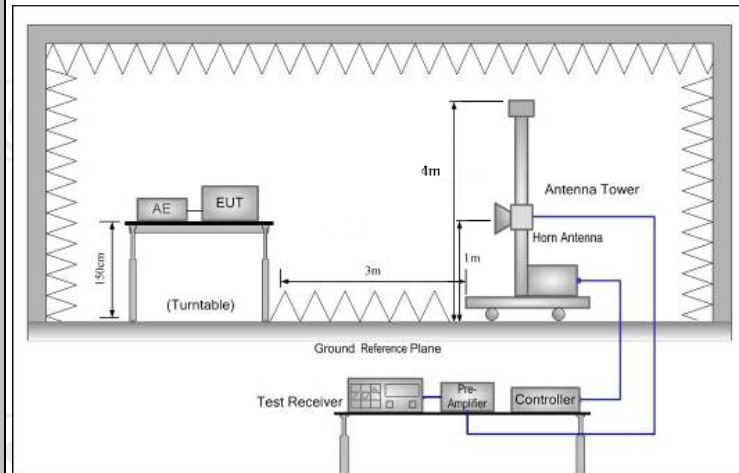
## 5.7. Radiated Spurious Emission Measurement

### 5.7.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.209																													
<b>Test Method:</b>	ANSI C63.10: 2013																													
<b>Frequency Range:</b>	9 kHz to 25 GHz																													
<b>Measurement Distance:</b>	3 m																													
<b>Antenna Polarization:</b>	Horizontal & Vertical																													
<b>Operation mode:</b>	Transmitting mode with modulation																													
<b>Receiver Setup:</b>	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td> <td>Quasi-peak</td> <td>200Hz</td> <td>1kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>Quasi-peak</td> <td>9kHz</td> <td>30kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
	Frequency	Detector	RBW	VBW	Remark																									
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																									
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																									
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value																									
Above 1GHz	Peak	1MHz	3MHz	Peak Value																										
	Peak	1MHz	10Hz	Average Value																										
<b>Limit:</b>	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Field Strength (microvolts/meter)</th> <th>Measurement Distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(KHz)</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(KHz)</td> <td>30</td> </tr> <tr> <td>1.705-30</td> <td>30</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table>	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	0.009-0.490	2400/F(KHz)	300	0.490-1.705	24000/F(KHz)	30	1.705-30	30	30	30-88	100	3	88-216	150	3	216-960	200	3	Above 960	500	3					
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)																											
	0.009-0.490	2400/F(KHz)	300																											
	0.490-1.705	24000/F(KHz)	30																											
	1.705-30	30	30																											
	30-88	100	3																											
	88-216	150	3																											
	216-960	200	3																											
	Above 960	500	3																											
	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Field Strength (microvolts/meter)</th> <th>Measurement Distance (meters)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td> <td>500</td> <td>3</td> <td>Average</td> </tr> <tr> <td>5000</td> <td>3</td> <td>Peak</td> </tr> </tbody> </table>	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector	Above 1GHz	500	3	Average	5000	3	Peak																		
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector																											
Above 1GHz	500	3	Average																											
	5000	3	Peak																											
<b>Test setup:</b>	<p>For radiated emissions below 30MHz</p>																													
	<p>30MHz to 1GHz</p>																													



Above 1GHz



**Test Procedure:**

- For the radiated emission test below 1GHz:  
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:  
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which

	<p>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>(1) Span shall wide enough to fully capture the emission being measured;</li> <li>(2) Set RBW=120 kHz for <math>f &lt; 1</math> GHz; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li> <li>(3) Set RBW = 1 MHz, VBW= 3MHz for <math>f &gt; 1</math> GHz for peak measurement.</li> </ul> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
<b>Test results:</b>	PASS

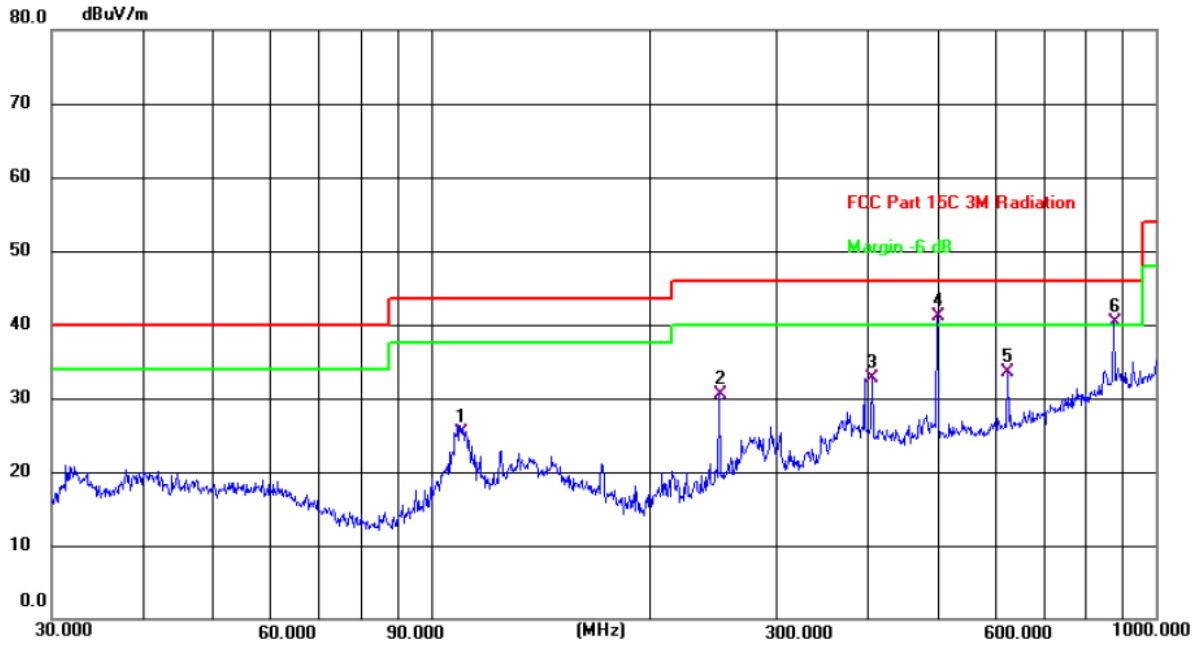
5.7.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Test Receiver	ROHDE&SCHWARZ	ESIB7	100197	Jul. 28, 2020	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHWARZ	FSQ40	200061	Sep. 12, 2020	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 03, 2020	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 03, 2020	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 06, 2020	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 05, 2020	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 05, 2020	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 05, 2020	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A	N/A
Line-4	TCT	RE-high-04	N/A	Sep. 03, 2020	Sep. 02, 2021
Line-8	TCT	RE-01	N/A	Sep. 03, 2020	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A

5.7.3. Test Data

Please refer to following diagram for individual  
Below 1GHz

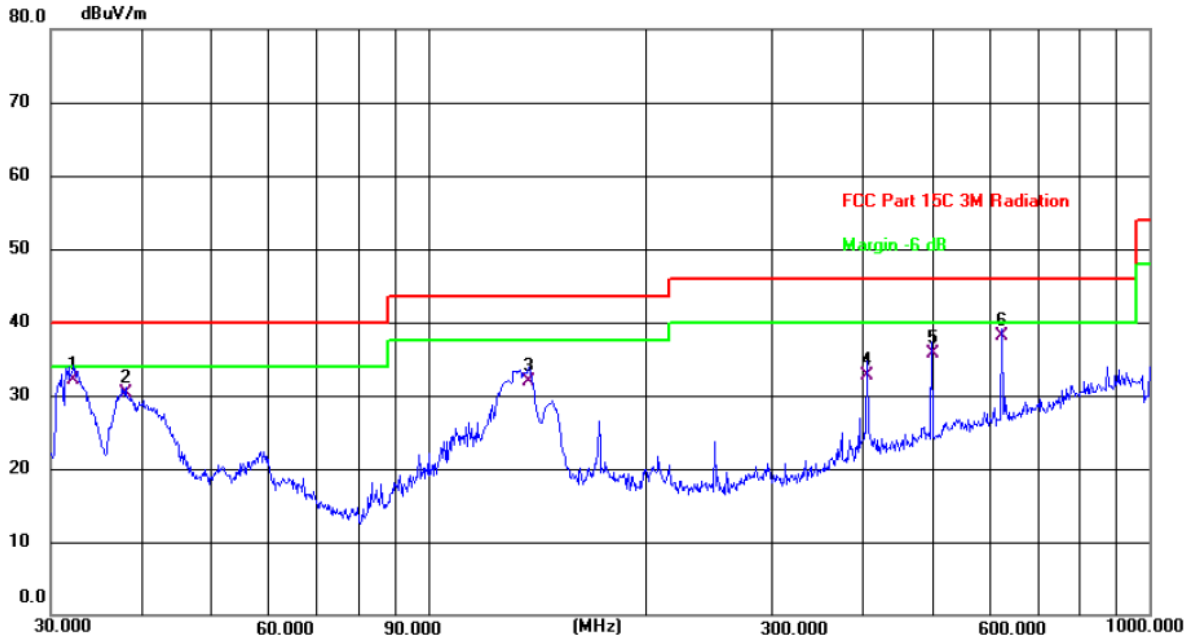
Horizontal:



Site: Polarization: **Horizontal** Temperature: 24.8(C)  
Limit: FCC Part 15C 3M Radiation Power: AC 120 V/60 Hz Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	109.7960	14.11	11.15	25.26	43.50	-18.24	QP	P	
2	250.3012	17.84	12.66	30.50	46.00	-15.50	QP	P	
3	406.0880	15.40	17.39	32.79	46.00	-13.21	QP	P	
4 *	499.4247	21.73	19.38	41.11	46.00	-4.89	QP	P	
5	625.0780	11.81	21.66	33.47	46.00	-12.53	QP	P	
6 !	875.2470	14.17	26.13	40.30	46.00	-5.70	QP	P	

Vertical:



Site: Polarization: **Vertical** Temperature: 24.8(C)  
 Limit: FCC Part 15C 3M Radiation Power: AC 120 V/60 Hz Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	32.2925	19.64	12.51	32.15	40.00	-7.85	QP	P	
2	38.0783	16.60	13.69	30.29	40.00	-9.71	QP	P	
3	137.9028	18.79	13.10	31.89	43.50	-11.61	QP	P	
4	406.0880	15.27	17.39	32.66	46.00	-13.34	QP	P	
5	499.4247	16.31	19.38	35.69	46.00	-10.31	QP	P	
6	625.0780	16.46	21.66	38.12	46.00	-7.88	QP	P	

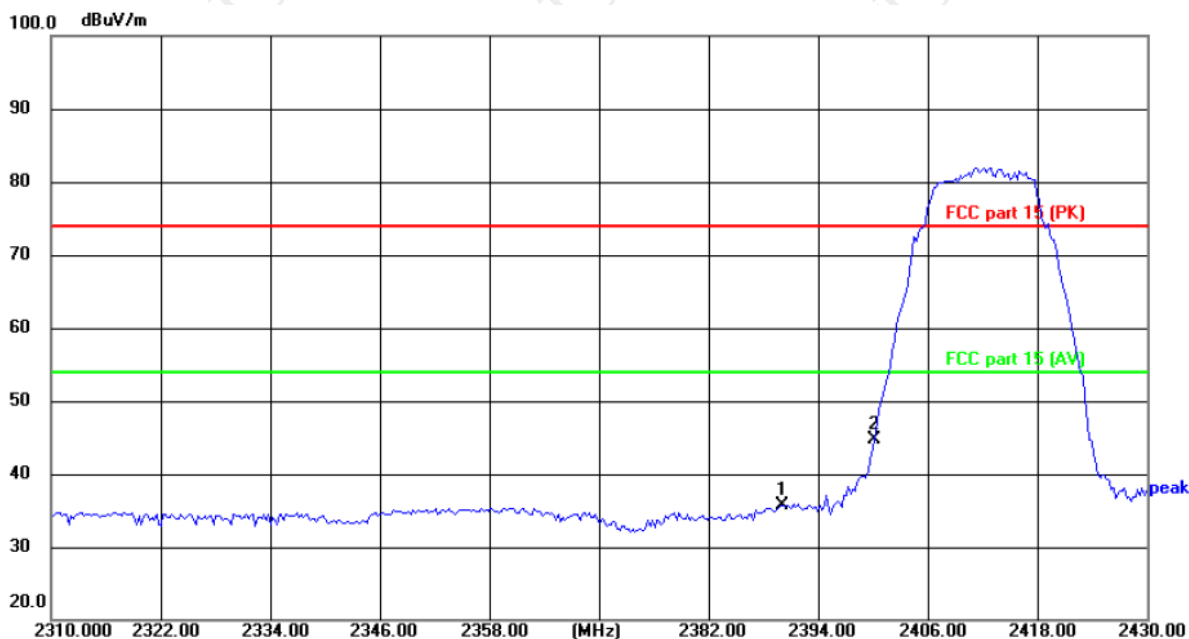
**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported  
 2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40) ), and the worst case Mode (Highest channel and 802.11b) was submitted only.  
 3. Freq. = Emission frequency in MHz  
 Measurement (dBuV/m) = Reading level (dBuV) + Corr. Factor (dB)  
 Correction Factor = Antenna Factor + Cable loss – Pre-amplifier  
 Limit (dBuV/m) = Limit stated in standard  
 Margin (dB) = Measurement (dBuV/m) – Limits (dBuV/m)  
 \* is meaning the worst frequency has been tested in the test frequency range.



Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

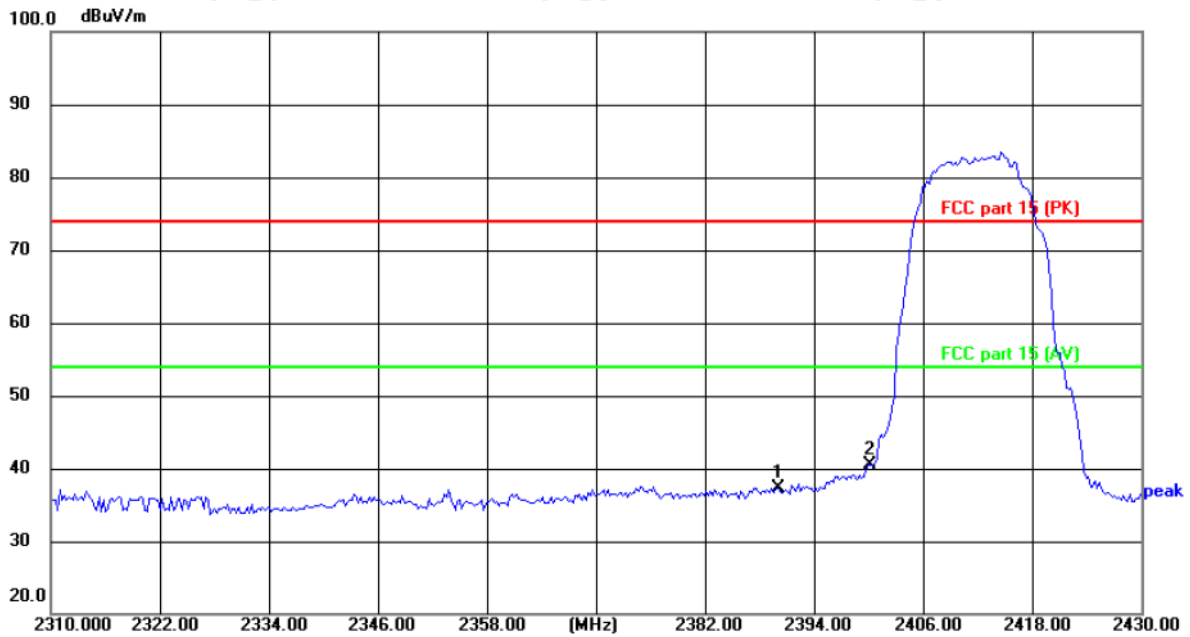
Horizontal:



Site: Polarization: *Horizontal* Temperature: 25(°C)  
Limit: FCC part 15 (PK) Power: AC 120 V/60 Hz Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	48.89	-13.15	35.74	74.00	-38.26	peak
2 *	2400.000	57.91	-13.12	44.79	74.00	-29.21	peak

Vertical:



Site  
Limit: FCC part 15 (PK)

Polarization: **Vertical**  
Power: AC 120 V/60 Hz

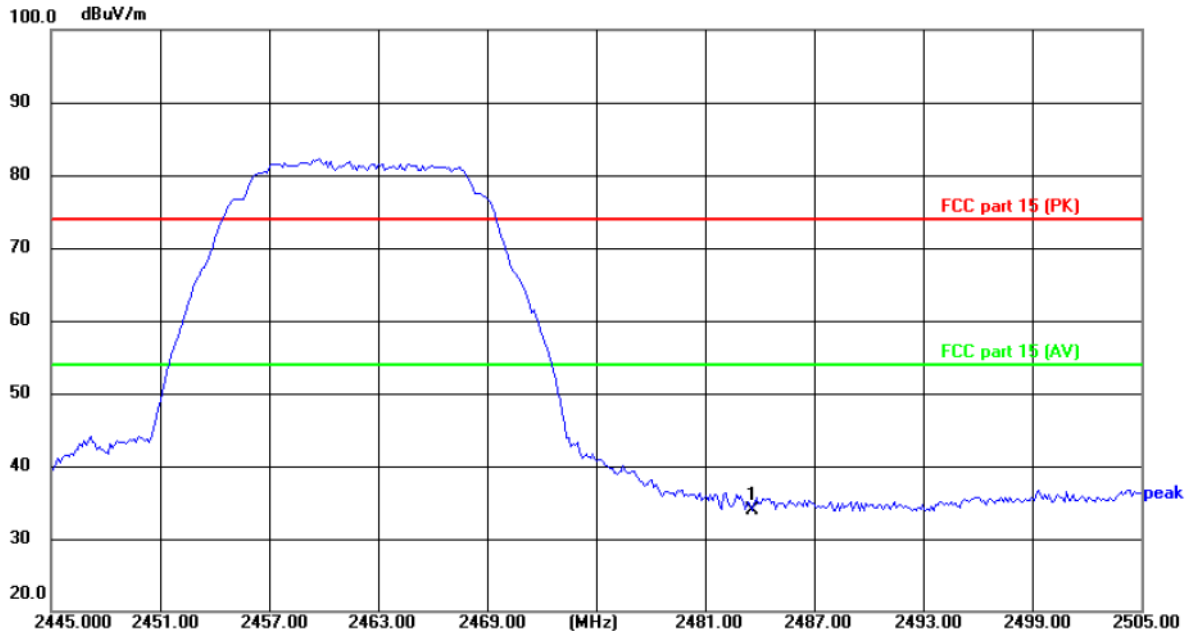
Temperature: 25(°C)  
Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	50.46	-13.15	37.31	74.00	-36.69	peak
2 *	2400.000	53.69	-13.12	40.57	74.00	-33.43	peak

**Note:** Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40).

Highest channel 2452:

Horizontal:



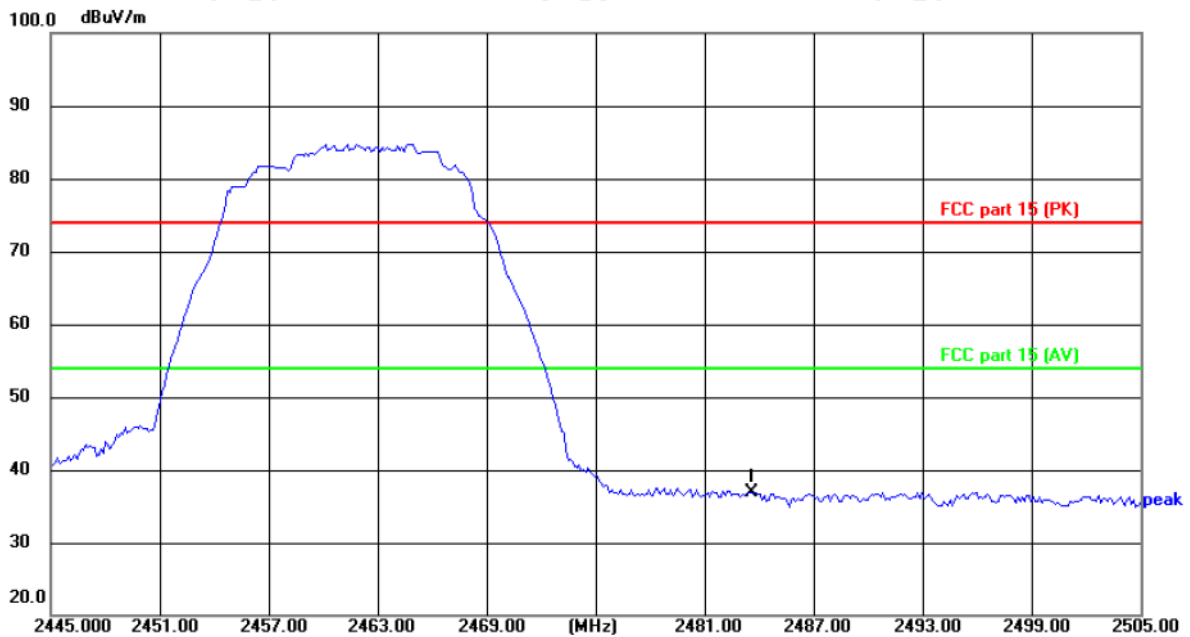
Site  
Limit: FCC part 15 (PK)

Polarization: *Horizontal*  
Power: AC 120 V/60 Hz

Temperature: 25(°C)  
Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	46.65	-12.74	33.91	74.00	-40.09	peak

Vertical:



Site  
Limit: FCC part 15 (PK)

Polarization: **Vertical**  
Power: AC 120 V/60 Hz

Temperature: 25(°C)  
Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	49.68	-12.74	36.94	74.00	-37.06	peak

**Note:**

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40) ), and the worst case Mode 802.11n(HT40) was submitted only.

## Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	47.31	---	0.75	48.06	---	74	54	-5.94
7236	H	37.25	---	9.87	47.12	---	74	54	-6.88
---	H	---	---	---	---	---	---	---	---
4824	V	46.91	---	0.75	47.66	---	74	54	-6.34
7236	V	35.37	---	9.87	45.24	---	74	54	-8.76
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	48.12	---	0.97	49.09	---	74	54	-4.91
7311	H	37.75	---	9.83	47.58	---	74	54	-6.42
---	H	---	---	---	---	---	---	---	---
4874	V	47.04	---	0.97	48.01	---	74	54	-5.99
7311	V	35.81	---	9.83	45.64	---	74	54	-8.36
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	48.34	---	1.18	49.52	---	74	54	-4.48
7386	H	37.28	---	10.07	47.35	---	74	54	-6.65
---	H	---	---	---	---	---	---	---	---
4924	V	46.41	---	1.33	47.74	---	74	54	-6.26
7386	V	35.60	---	10.22	45.82	---	74	54	-8.18
---	V	---	---	---	---	---	---	---	---

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. 802.11b is SISO mode.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4824	H	48.46	---	0.75	49.21	---	74	54	-4.79
7236	H	38.88	---	9.87	48.75	---	74	54	-5.25
---	H	---	---	---	---	---	---	---	---
4824	V	46.72	---	0.75	47.47	---	74	54	-6.53
7236	V	38.96	---	9.87	48.83	---	74	54	-5.17
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4874	H	47.14	---	0.97	48.11	---	74	54	-5.89
7311	H	40.22	---	9.83	50.05	---	74	54	-3.95
---	H	---	---	---	---	---	---	---	---
4874	V	46.35	---	0.97	47.32	---	74	54	-6.68
7311	V	39.71	---	9.83	49.54	---	74	54	-4.46
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB $\mu$ V)	AV reading (dB $\mu$ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB $\mu$ V/m)	AV limit (dB $\mu$ V/m)	Margin (dB)
					Peak (dB $\mu$ V/m)	AV (dB $\mu$ V/m)			
4924	H	46.91	---	1.18	48.09	---	74	54	-5.91
7386	H	38.70	---	10.07	48.77	---	74	54	-5.23
---	H	---	---	---	---	---	---	---	---
4924	V	45.45	---	1.18	46.63	---	74	54	-7.37
7386	V	36.29	---	10.07	46.36	---	74	54	-7.64
---	V	---	---	---	---	---	---	---	---

**Note:**

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. 802.11g is SISO mode.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	48.26	---	0.75	49.01	---	74	54	-4.99
7236	H	39.79	---	9.87	49.66	---	74	54	-4.34
---	H	---	---	---	---	---	---	---	---
4824	V	46.69	---	0.75	47.44	---	74	54	-6.56
7236	V	39.04	---	9.87	48.91	---	74	54	-5.09
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	47.08	---	0.97	48.05	---	74	54	-5.95
7311	H	39.39	---	9.83	49.22	---	74	54	-4.78
---	H	---	---	---	---	---	---	---	---
4874	V	46.30	---	0.97	47.27	---	74	54	-6.73
7311	V	38.71	---	9.83	48.54	---	74	54	-5.46
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	48.17	---	1.18	49.35	---	74	54	-4.65
7386	H	39.38	---	10.07	49.45	---	74	54	-4.55
---	H	---	---	---	---	---	---	---	---
4924	V	46.70	---	1.18	47.88	---	74	54	-6.12
7386	V	40.15	---	10.07	50.22	---	74	54	-3.78
---	V	---	---	---	---	---	---	---	---

**Note:**

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. 802.11n(HT20) is SISO mode.

Modulation Type: 802.11n (HT40)

Low channel: 2422 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4844	H	44.49	---	0.75	45.24	---	74	54	-8.76
7266	H	37.72	---	9.87	47.59	---	74	54	-6.41
---	H	---	---	---	---	---	---	---	---
4824	V	43.61	---	0.75	44.36	---	74	54	-9.64
7236	V	34.85	---	9.87	44.72	---	74	54	-9.28
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	45.55	---	0.97	46.52	---	74	54	-7.48
7311	H	35.78	---	9.83	45.61	---	74	54	-8.39
---	H	---	---	---	---	---	---	---	---
4874	V	42.85	---	0.97	43.82	---	74	54	-10.18
7311	V	36.46	---	9.83	46.29	---	74	54	-7.71
---	V	---	---	---	---	---	---	---	---

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4904	H	44.14	---	1.18	45.32	---	74	54	-8.68
7356	H	35.30	---	10.07	45.37	---	74	54	-8.63
---	H	---	---	---	---	---	---	---	---
4904	V	42.27	---	1.18	43.45	---	74	54	-10.55
7356	V	35.49	---	10.07	45.56	---	74	54	-8.44
---	V	---	---	---	---	---	---	---	---

**Note:**

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. 802.11n(HT40) is SISO mode.



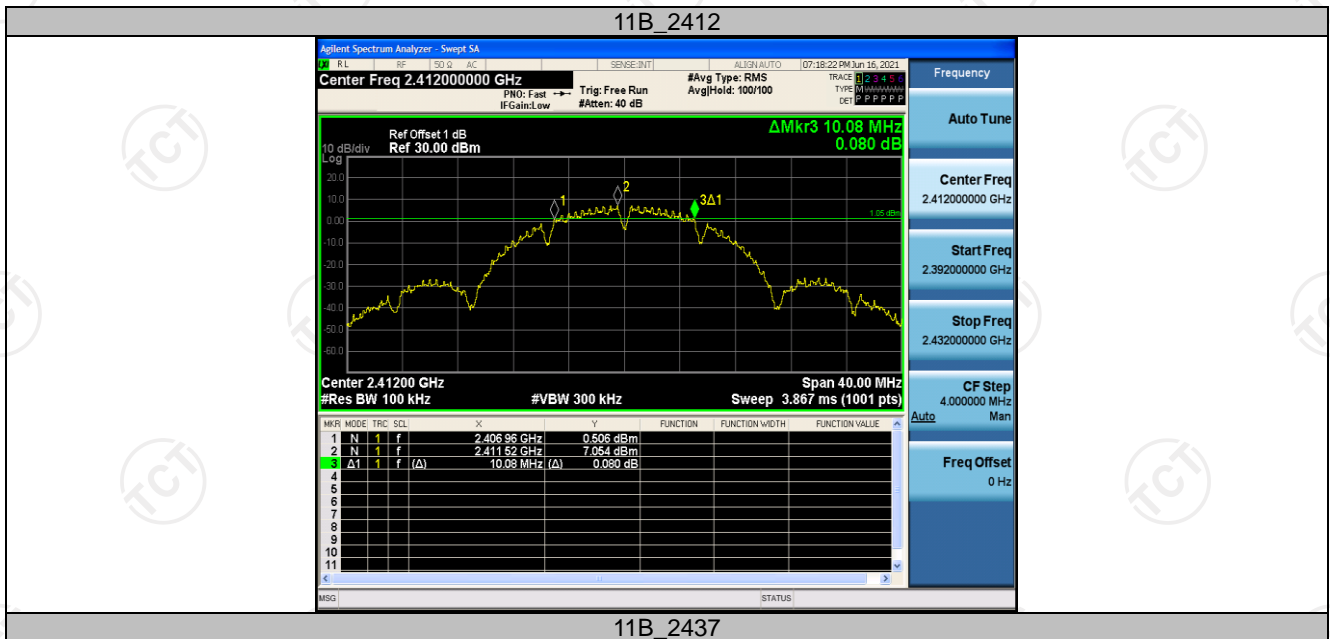
## Appendix A: Test Result of Conducted Test

### DTS Bandwidth

#### Test Result

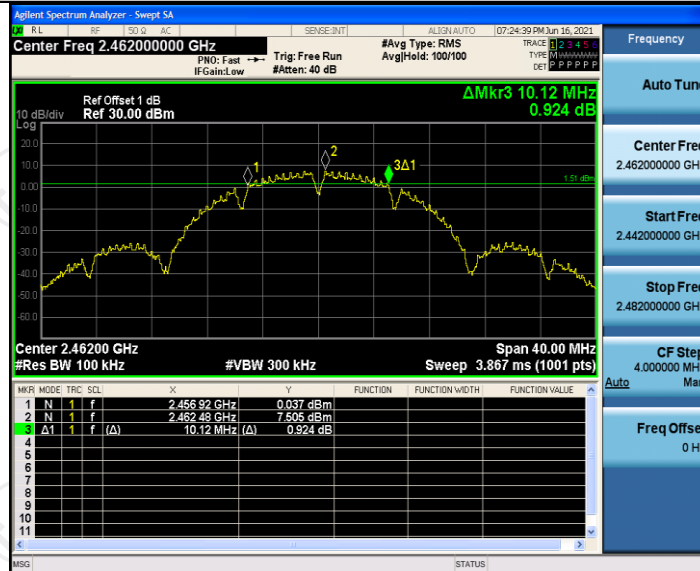
Test Mode	Channel	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	2412	10.080	2406.960	2417.040	0.5	PASS
	2437	9.600	2432.440	2442.040	0.5	PASS
	2462	10.120	2456.920	2467.040	0.5	PASS
11G	2412	16.400	2403.800	2420.200	0.5	PASS
	2437	16.400	2428.800	2445.200	0.5	PASS
	2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	2412	17.680	2403.160	2420.840	0.5	PASS
	2437	17.680	2428.160	2445.840	0.5	PASS
	2462	17.680	2453.160	2470.840	0.5	PASS
11N40SISO	2422	36.480	2403.760	2440.240	0.5	PASS
	2437	36.080	2419.160	2455.240	0.5	PASS
	2452	36.480	2433.760	2470.240	0.5	PASS

#### Test Graphs

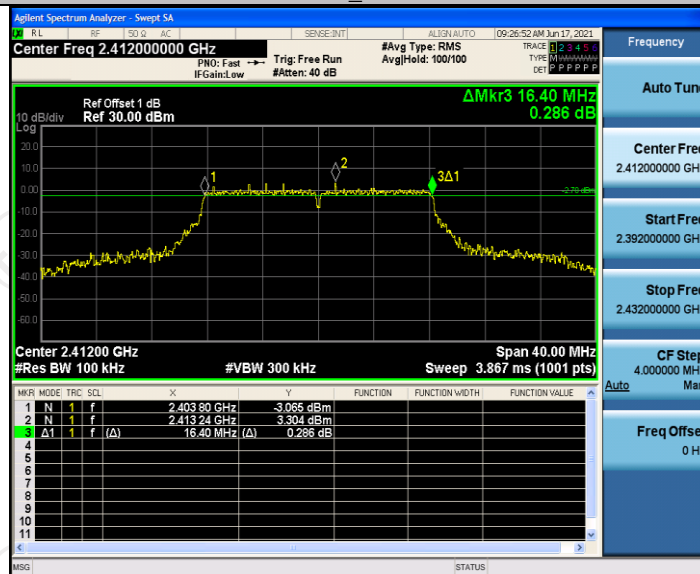




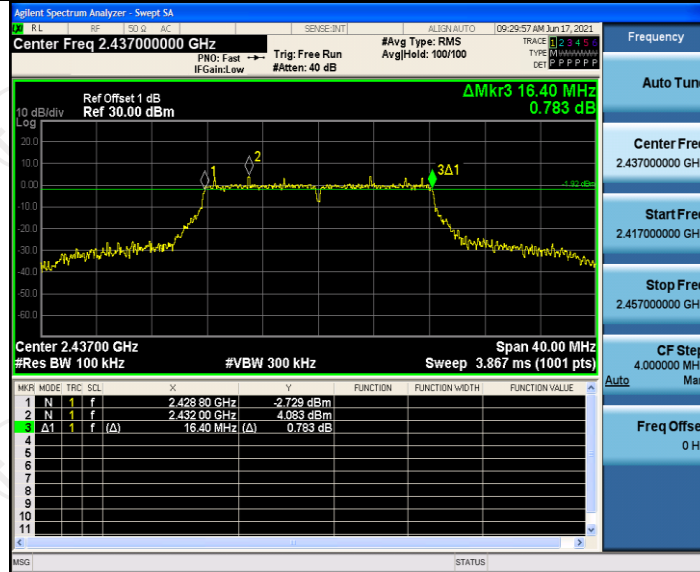
11B\_2462



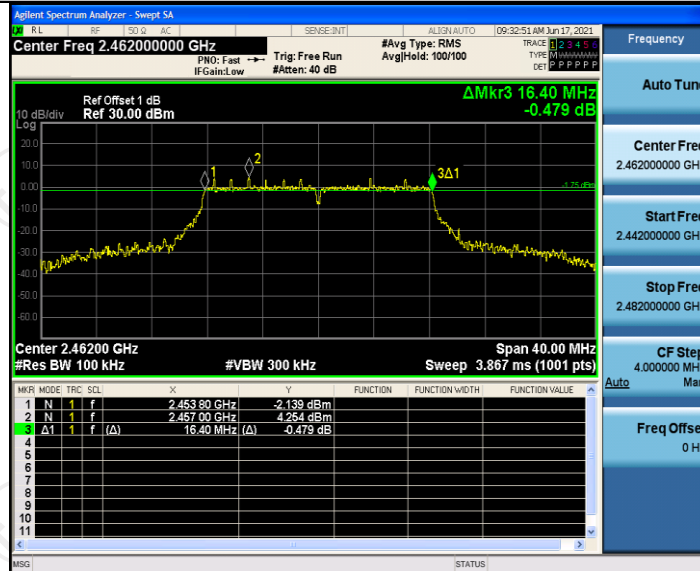
11G\_2412



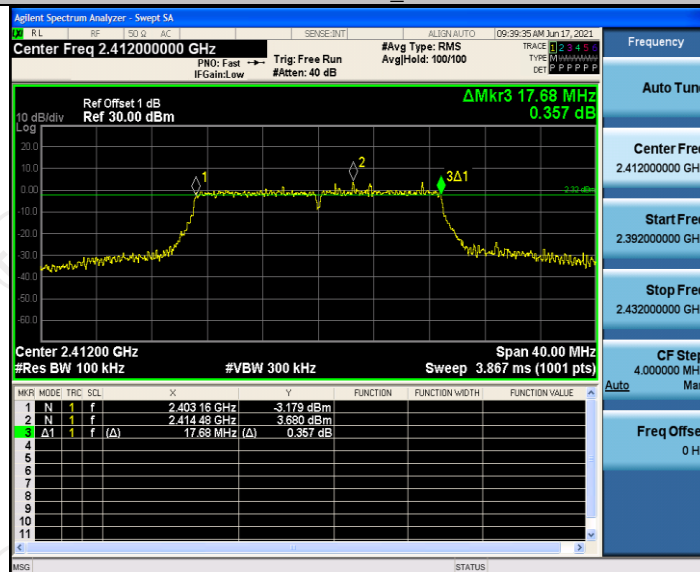
11G\_2437



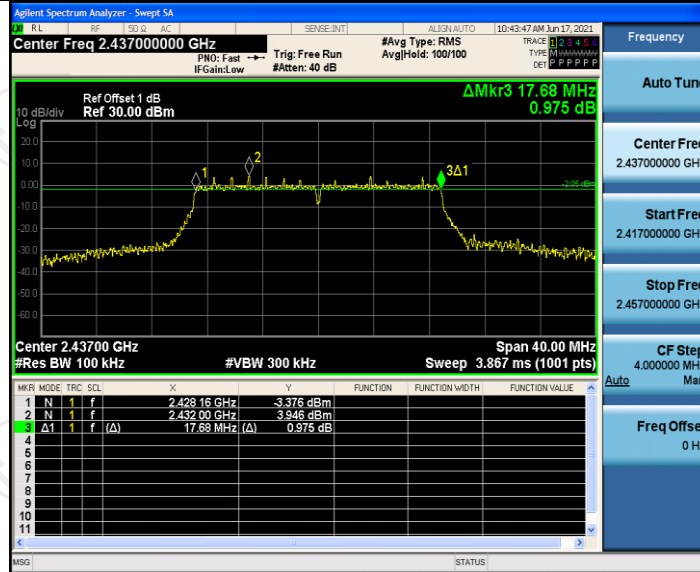
11G\_2462



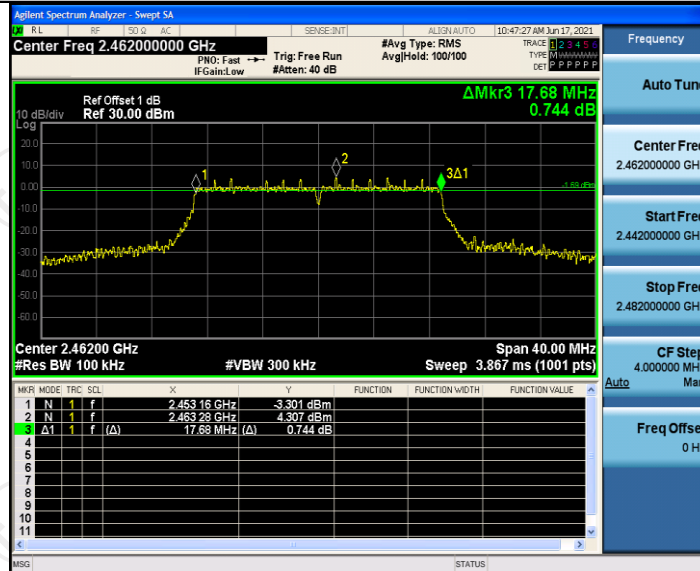
11N20SISO\_2412



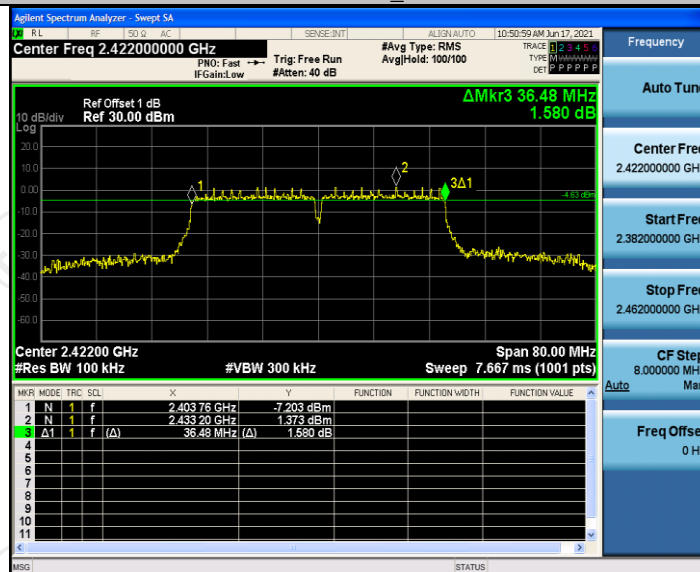
11N20SISO\_2437



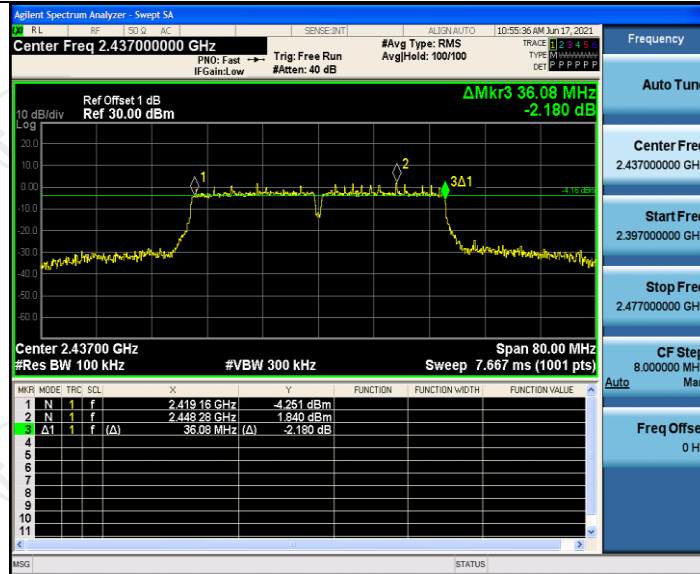
11N20SISO\_2462



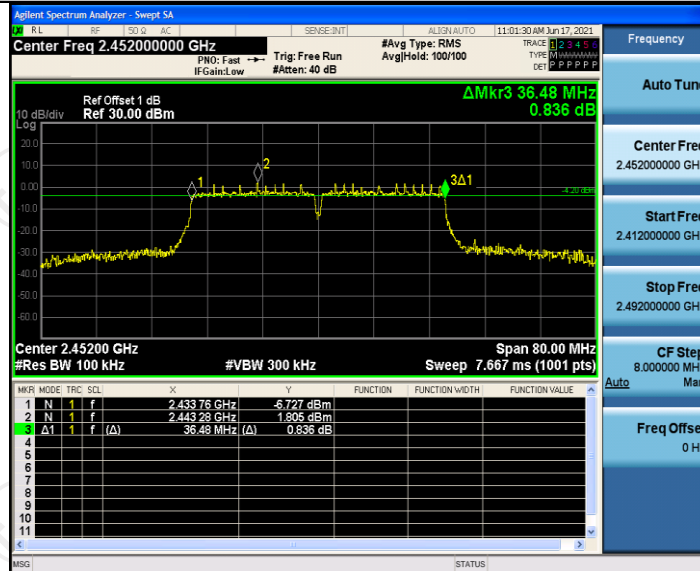
11N40SISO\_2422



11N40SISO\_2437



11N40SISO\_2452

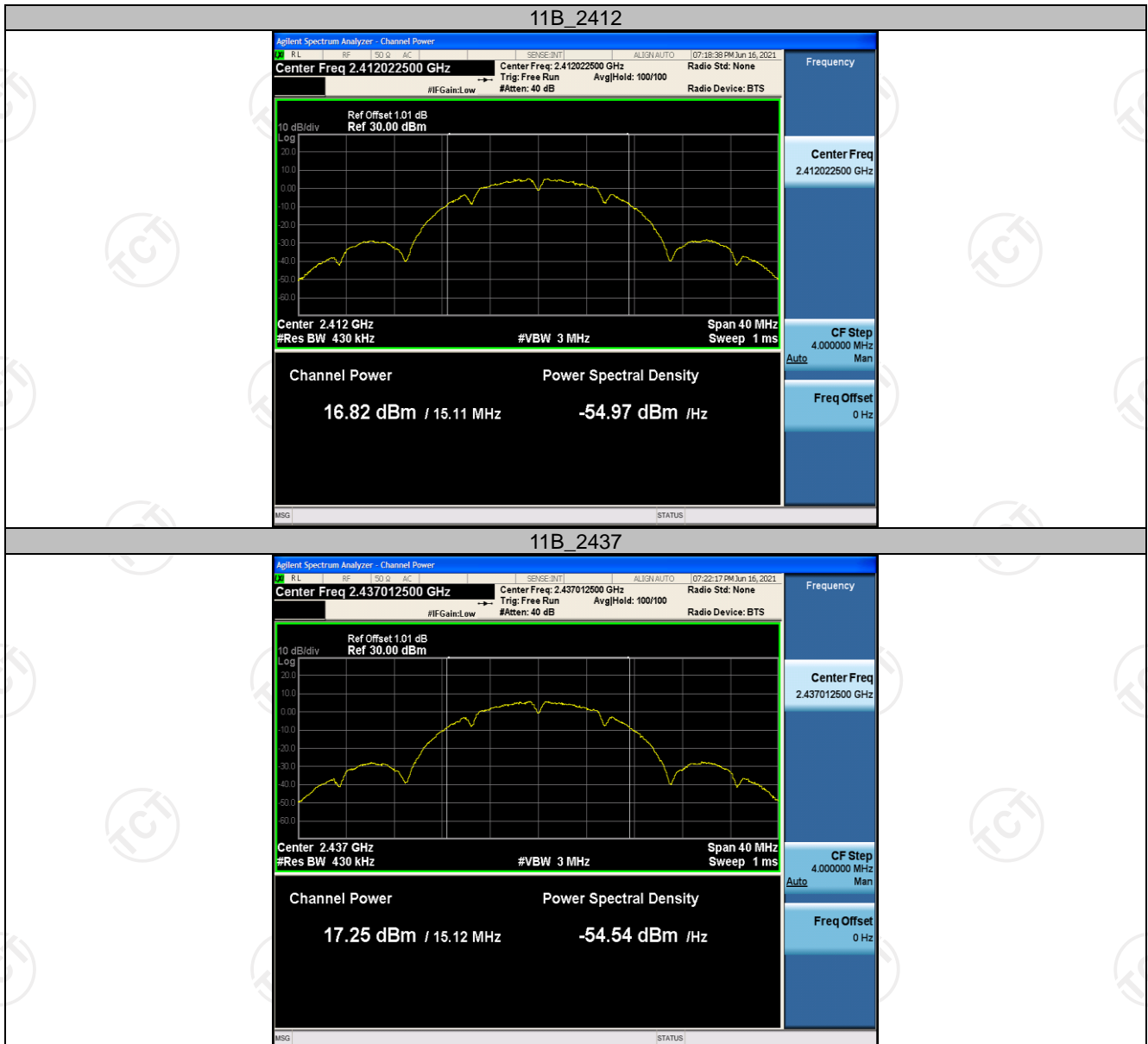


## Maximum conducted output power

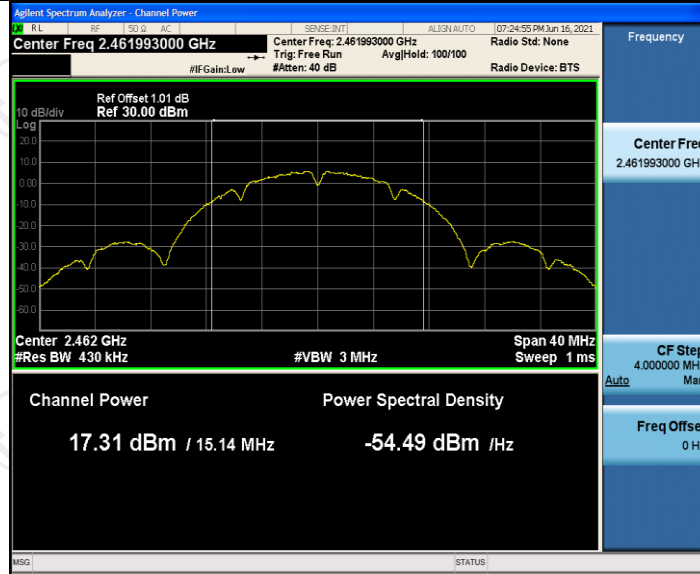
### Test Result

Test Mode	Channel	Result [dBm]	Limit [dBm]	Verdict
11B	2412	16.82	<=30	PASS
	2437	17.25	<=30	PASS
	2462	17.31	<=30	PASS
11G	2412	14.97	<=30	PASS
	2437	15.39	<=30	PASS
	2462	15.42	<=30	PASS
11N20SISO	2412	14.91	<=30	PASS
	2437	15.43	<=30	PASS
	2462	15.49	<=30	PASS
11N40SISO	2422	15.70	<=30	PASS
	2437	15.91	<=30	PASS
	2452	15.98	<=30	PASS

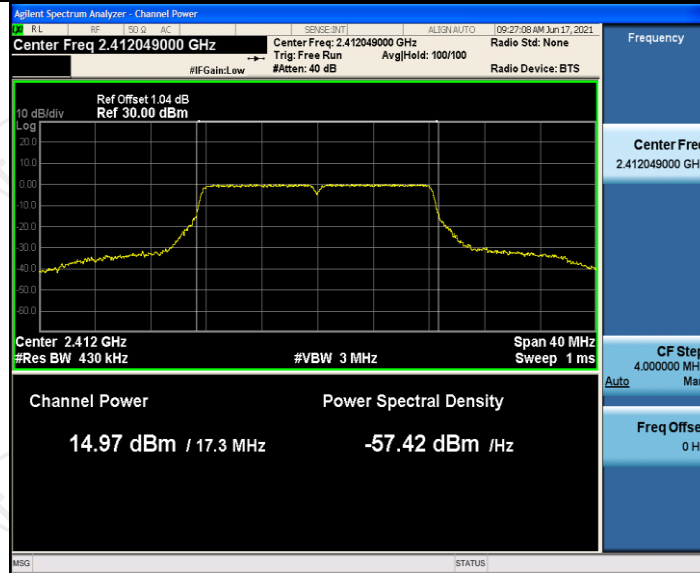
### Test Graphs



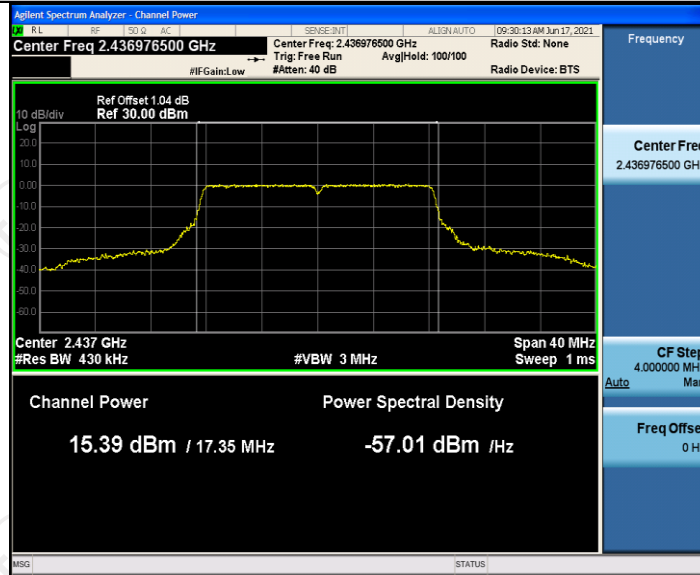
## 11B\_2462



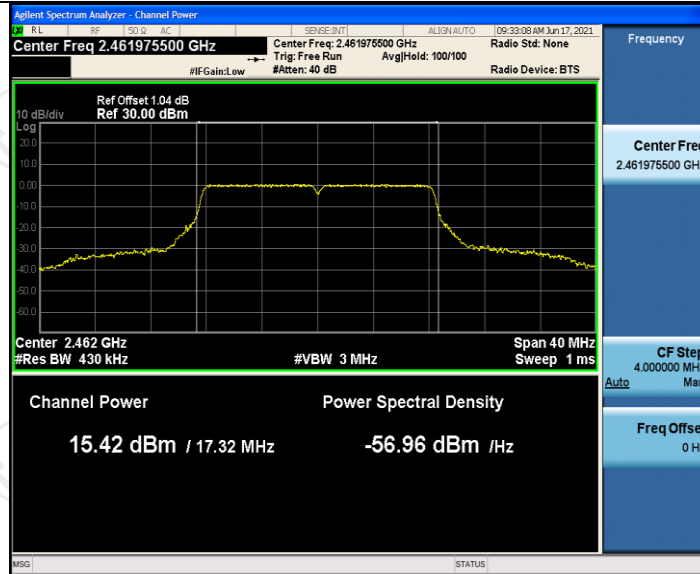
## 11G\_2412



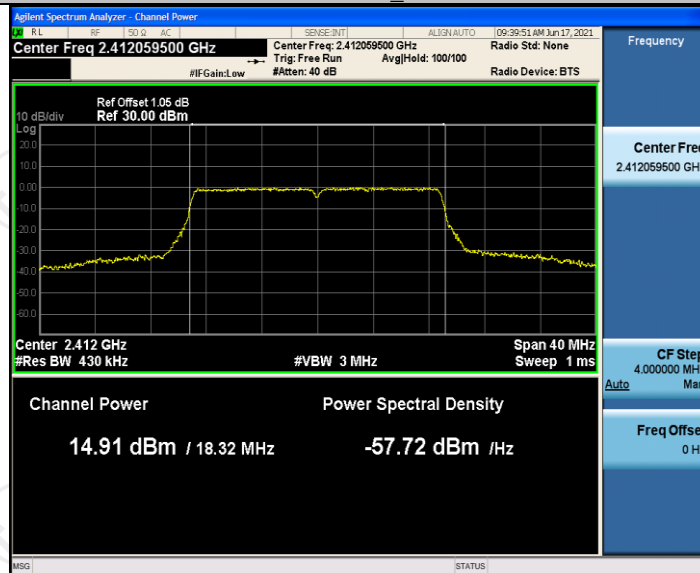
## 11G\_2437



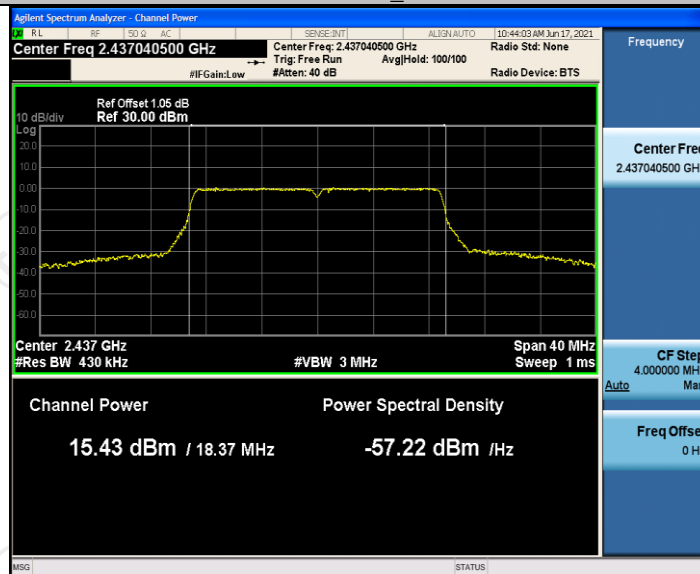
## 11G\_2462



11N20SISO\_2412

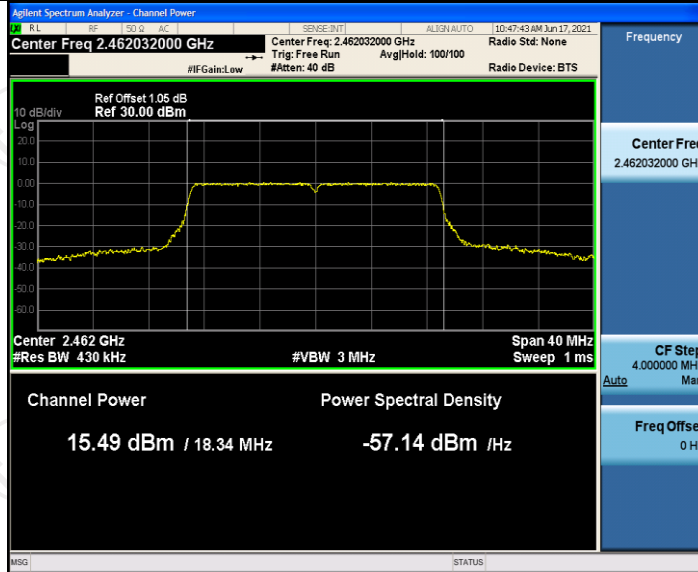


11N20SISO\_2437

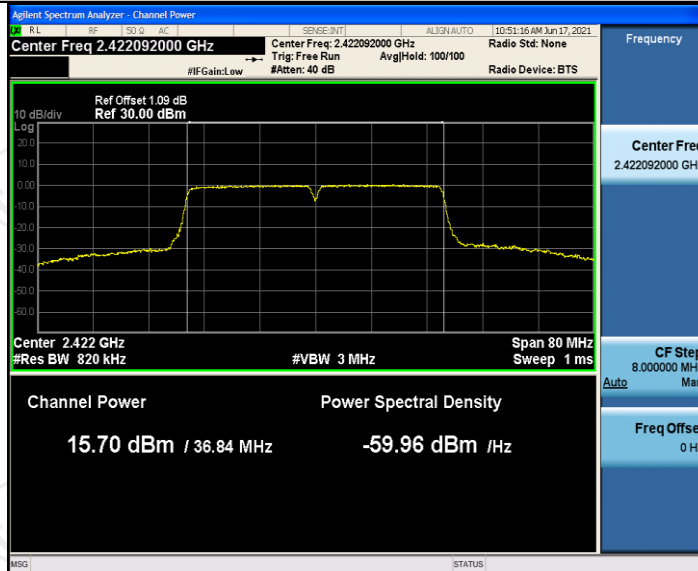


11N20SISO\_2462

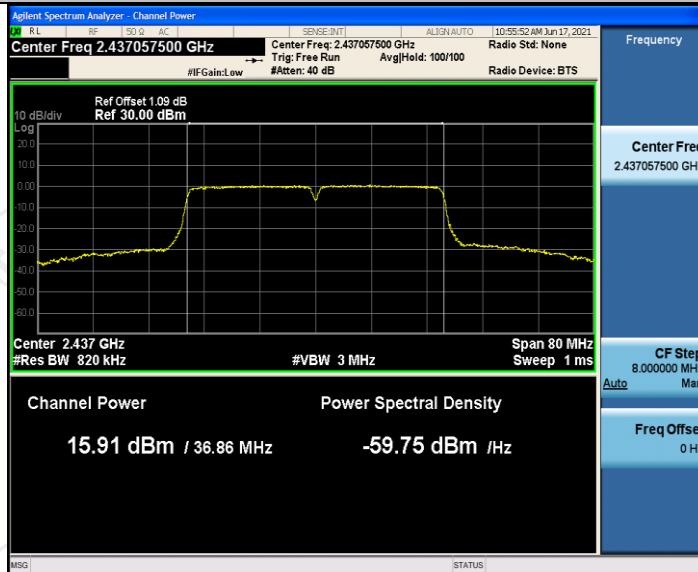




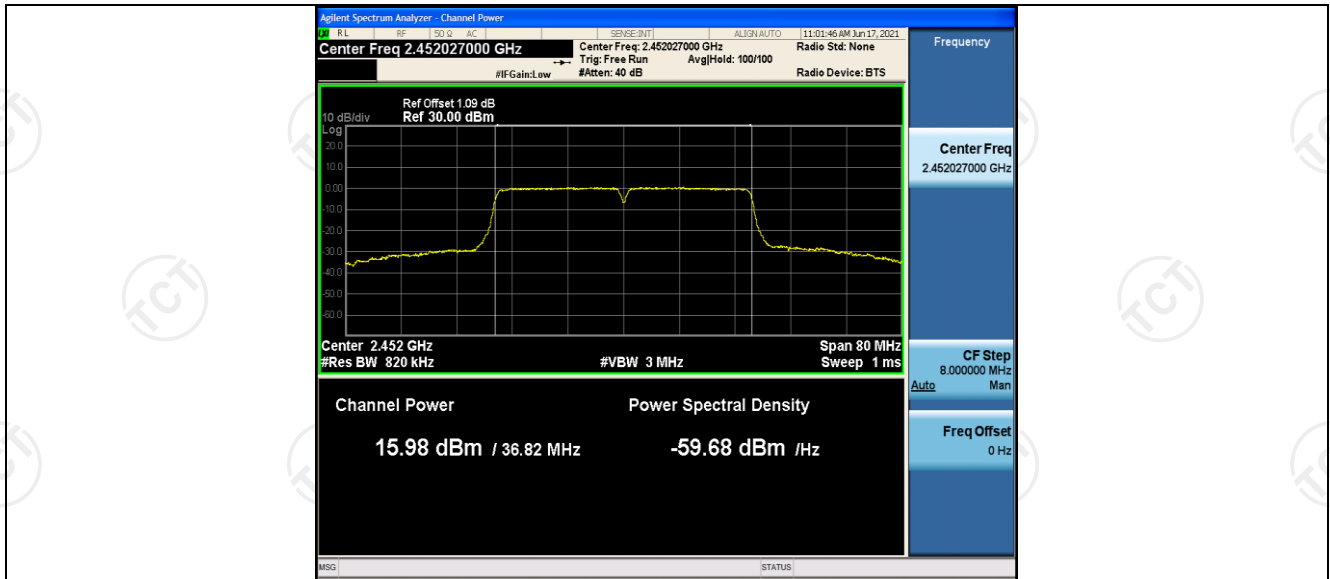
11N40SISO\_2422



11N40SISO\_2437



11N40SISO\_2452



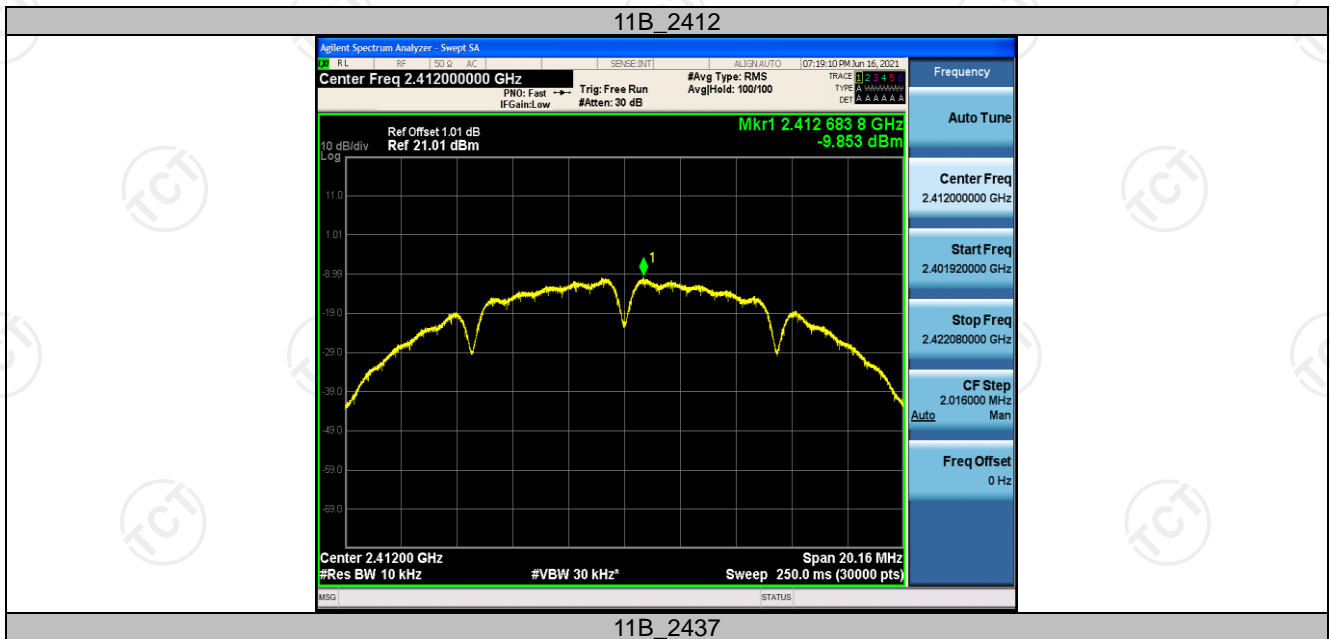
### Maximum power spectral density

#### Test Result

Test Mode	Channel	Result [dBm/10kHz]	Correction Factor	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	2412	-9.85	-5.23	-15.08	<=8	PASS
	2437	-8.75	-5.23	-13.98	<=8	PASS
	2462	-9.58	-5.23	-14.81	<=8	PASS
11G	2412	-13.95	-5.23	-19.18	<=8	PASS
	2437	-13.36	-5.23	-18.59	<=8	PASS
	2462	-13.64	-5.23	-18.87	<=8	PASS
11N20SISO	2412	-13.4	-5.23	-18.63	<=8	PASS
	2437	-13.39	-5.23	-18.62	<=8	PASS
	2462	-13.77	-5.23	-19.00	<=8	PASS
11N40SISO	2422	-16.05	-5.23	-21.28	<=8	PASS
	2437	-15.95	-5.23	-21.18	<=8	PASS
	2452	-15.32	-5.23	-20.55	<=8	PASS

Note: Correction Factor = 10log(3KHz/RBW in measurement)

#### Test Graphs

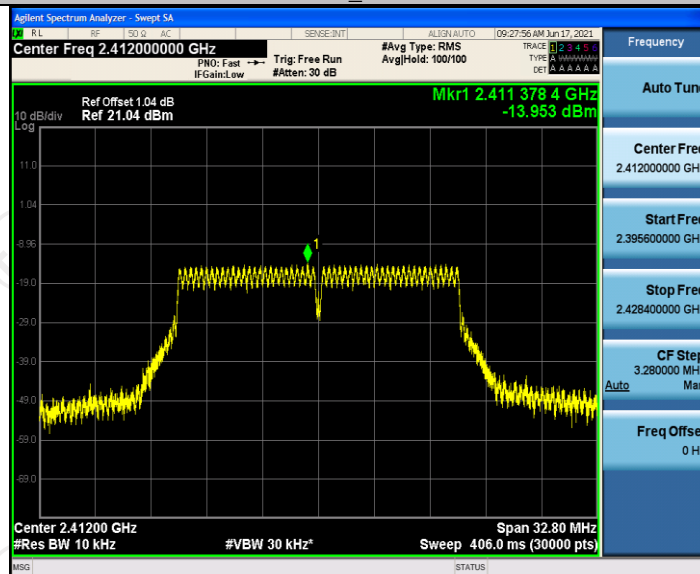




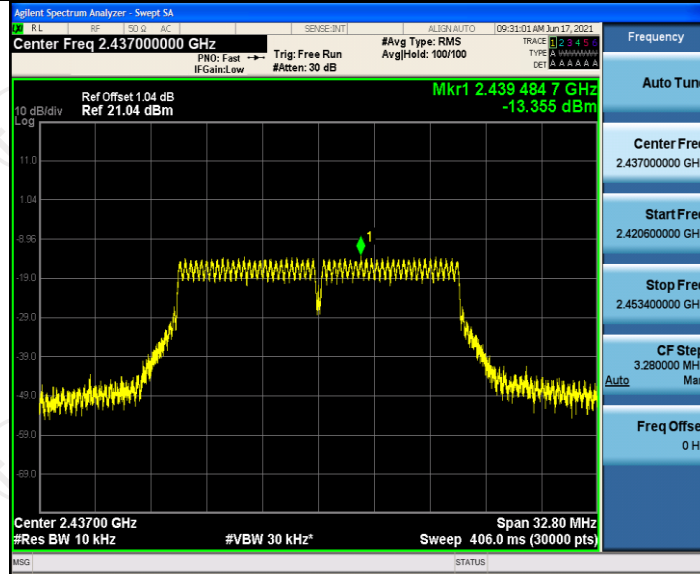
11B\_2462



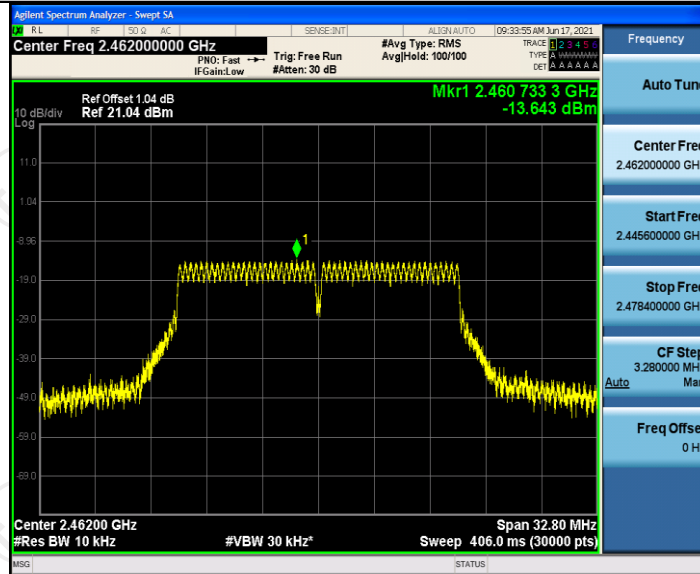
11G\_2412



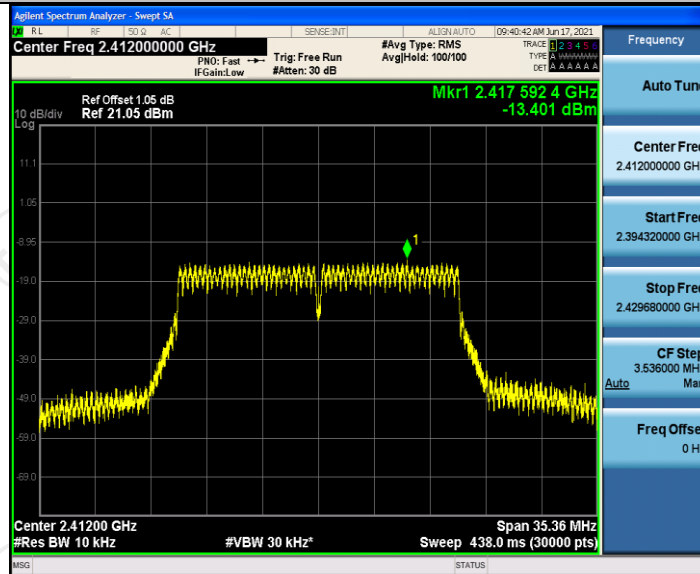
11G\_2437



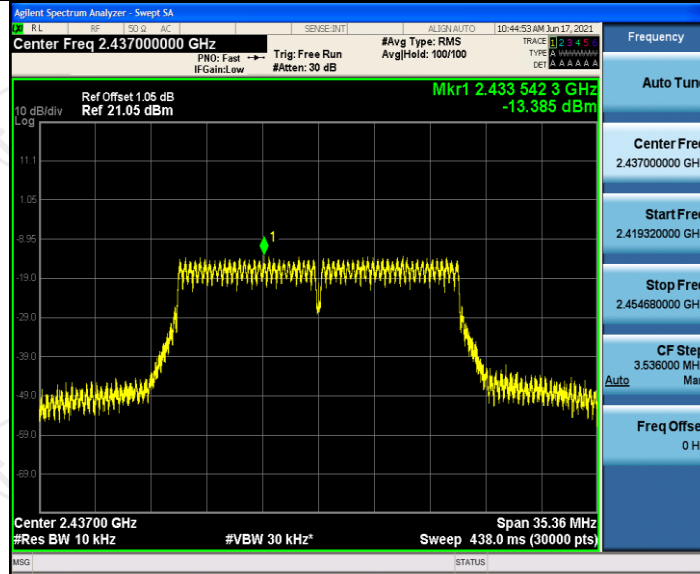
11G\_2462



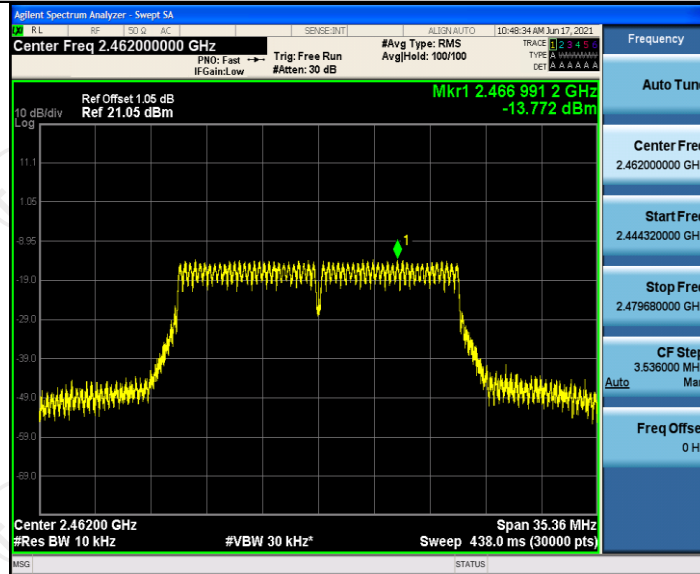
11N20SISO\_2412



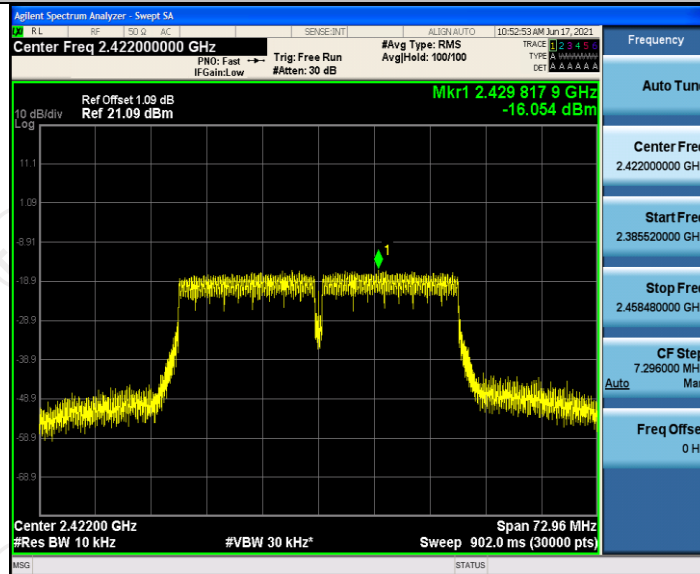
11N20SISO\_2437



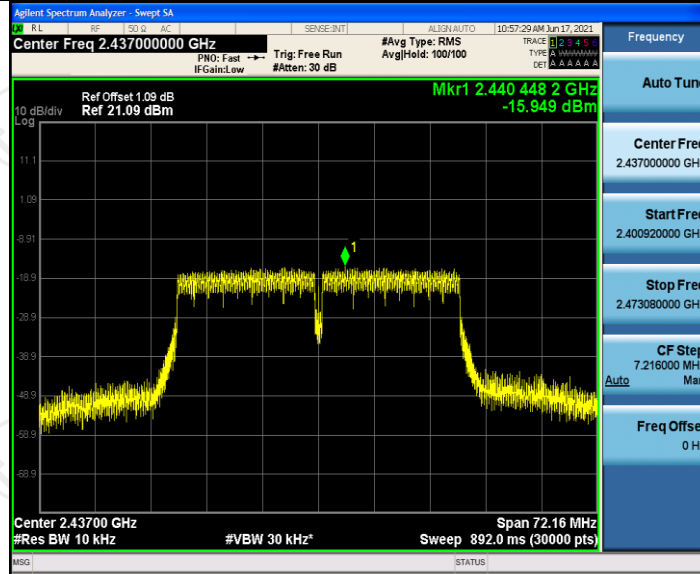
11N20SISO\_2462



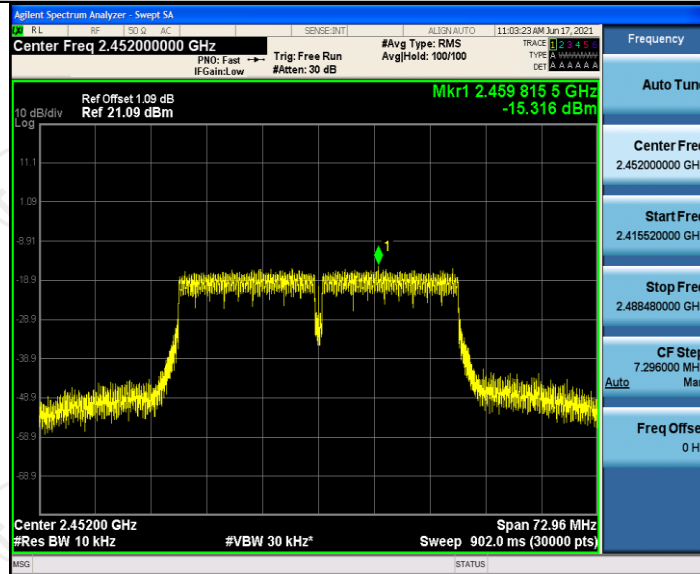
11N40SISO\_2422



11N40SISO\_2437



11N40SISO\_2452



### Band edge measurements

#### Test Result

Test Mode	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Low	2412	7.17	-26.24	<=-22.83	PASS
	High	2462	7.62	-47.59	<=-22.38	PASS
11G	Low	2412	3.79	-26.29	<=-26.21	PASS
	High	2462	4.28	-38.69	<=-25.72	PASS
11N20SISO	Low	2412	3.52	-27.93	<=-26.48	PASS
	High	2462	4.28	-34.3	<=-25.72	PASS
11N40SISO	Low	2422	1.73	-29.19	<=-28.27	PASS
	High	2452	1.52	-29.79	<=-28.48	PASS

#### Test Graphs

