




TEST REPORT

FCC ID :	2AUAR393TKX11	
Test Report No :	TCT230425E052	
Date of issue :	Jul. 10, 2023	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name :	THINKCAR TECH CO., LTD.	
Address :	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China	
Manufacturer's name ... :	THINKCAR TECH CO., LTD.	
Address :	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	
Product Name :	Remote Diagnostic Service	
Trade Mark	THINKCAR, XHINKCAR, MUCAR	
Model/Type reference :	TKX11, THINKTOOL Expert 393, THINKTOOL Euro 393, THINKTOOL Platinum 393, THINKTOOL X10 Pro, TKX10	
Rating(s) :	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC 3.8V	
Date of receipt of test item	Apr. 25, 2023	
Date (s) of performance of test :	Apr. 25, 2023 - Jul. 10, 2023	
Tested by (+signature) ... :	Brews XU	
Check by (+signature) :	Beryl ZHAO	
Approved by (+signature):	Tomsin	



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1. General Product Information

1.1. EUT description

Product Name:	Remote Diagnostic Service
Model/Type reference:	TKX11
Sample Number:	TCT230425E041-0101
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:	1.88dBi
Rating(s):	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC 3.8V

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	TKX11	<input checked="" type="checkbox"/>
Other models	THINKTOOL Expert 393, THINKTOOL Euro 393, THINKTOOL Platinum 393, THINKTOOL X10 Pro, TKX10	<input type="checkbox"/>

Note: TKX11 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names, trademarks and color. So the test data of TKX11 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 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:	23.5 °C	26.3 °C
Humidity:	52 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	Engineering Mode	
Power Level:	16	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery	
<p>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.</p>		

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

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: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, 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	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5.2. Conducted Emission

5.2.1. Test Specification

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

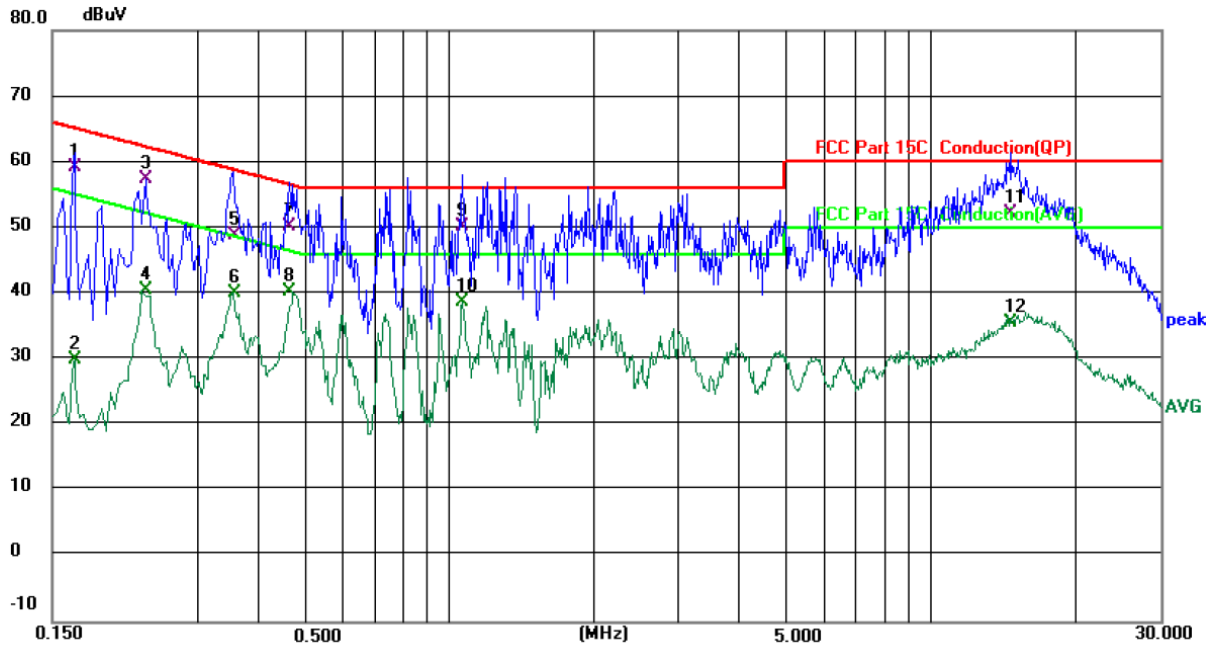
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jun. 30, 2024
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024
Line-5	TCT	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

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 844 Shielding Room

Phase: L1

Temperature: 23.5 (°C)

Humidity: 52 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1660	49.07	10.13	59.20	65.16	-5.96	QP	
2		0.1660	19.79	10.13	29.92	55.16	-25.24	AVG	
3	*	0.2340	47.45	9.95	57.40	62.31	-4.91	QP	
4		0.2340	30.48	9.95	40.43	52.31	-11.88	AVG	
5		0.3539	39.31	9.59	48.90	58.87	-9.97	QP	
6		0.3539	30.49	9.59	40.08	48.87	-8.79	AVG	
7		0.4660	40.71	9.49	50.20	56.58	-6.38	QP	
8		0.4660	30.80	9.49	40.29	46.58	-6.29	AVG	
9		1.0700	41.19	8.91	50.10	56.00	-5.90	QP	
10		1.0700	29.75	8.91	38.66	46.00	-7.34	AVG	
11		14.6340	42.13	10.17	52.30	60.00	-7.70	QP	
12		14.6340	25.43	10.17	35.60	50.00	-14.40	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

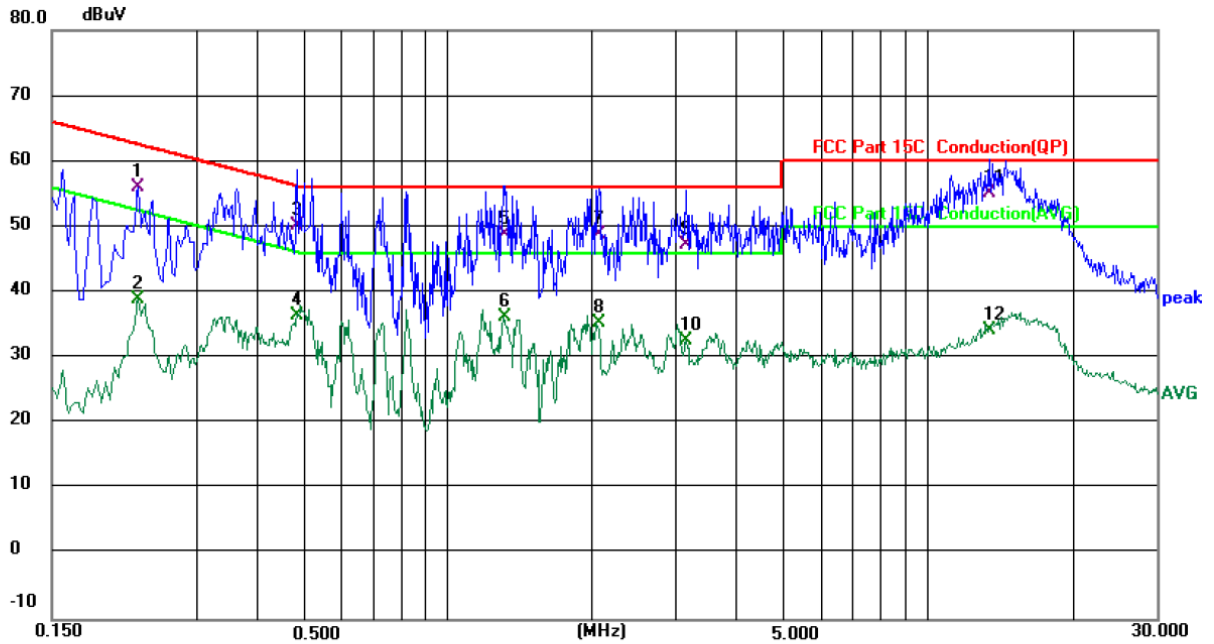
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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 844 Shielding Room Phase: **N** Temperature: 23.5 (°C) Humidity: 52 %
 Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz

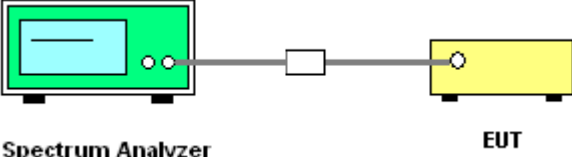
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2260	46.15	9.95	56.10	62.60	-6.50	QP	
2		0.2260	29.03	9.95	38.98	52.60	-13.62	AVG	
3		0.4858	40.73	9.47	50.20	56.24	-6.04	QP	
4		0.4858	27.03	9.47	36.50	46.24	-9.74	AVG	
5		1.3220	38.89	10.01	48.90	56.00	-7.10	QP	
6		1.3220	26.30	10.01	36.31	46.00	-9.69	AVG	
7		2.0659	38.88	10.02	48.90	56.00	-7.10	QP	
8		2.0659	25.35	10.02	35.37	46.00	-10.63	AVG	
9		3.1500	37.15	10.05	47.20	56.00	-8.80	QP	
10		3.1500	22.56	10.05	32.61	46.00	-13.39	AVG	
11	*	13.4178	44.87	10.23	55.10	60.00	-4.90	QP	
12		13.4178	23.97	10.23	34.20	50.00	-15.80	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.

5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification


Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 30, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. Power Spectral Density

5.5.1. Test Specification

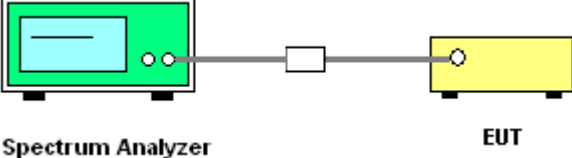
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting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

5.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 30, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

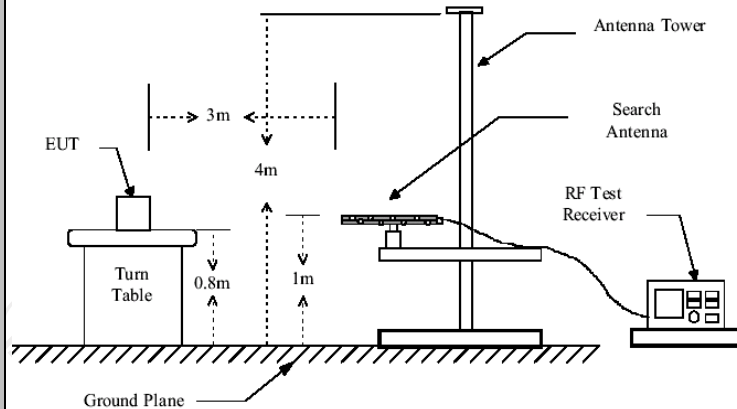
5.6.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 30, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

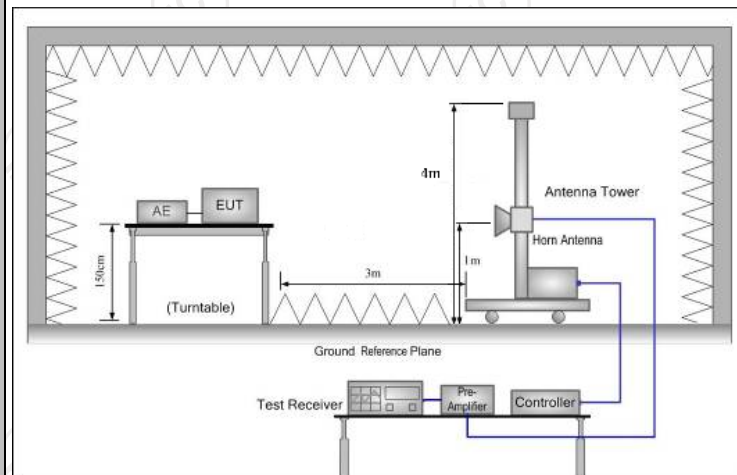
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209																													
Test Method:	ANSI C63.10:2013																													
Frequency Range:	9 kHz to 25 GHz																													
Measurement Distance:	3 m																													
Antenna Polarization:	Horizontal & Vertical																													
Operation mode:	Transmitting mode with modulation																													
Receiver Setup:	<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																										
Limit:	<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																											
	Test setup:	<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																											
Test setup:	<p>For radiated emissions below 30MHz</p>																													
	<p>30MHz to 1GHz</p>																													



Above 1GHz



Test Procedure:

1. 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> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=120 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement.</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, 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>
Test results:	PASS

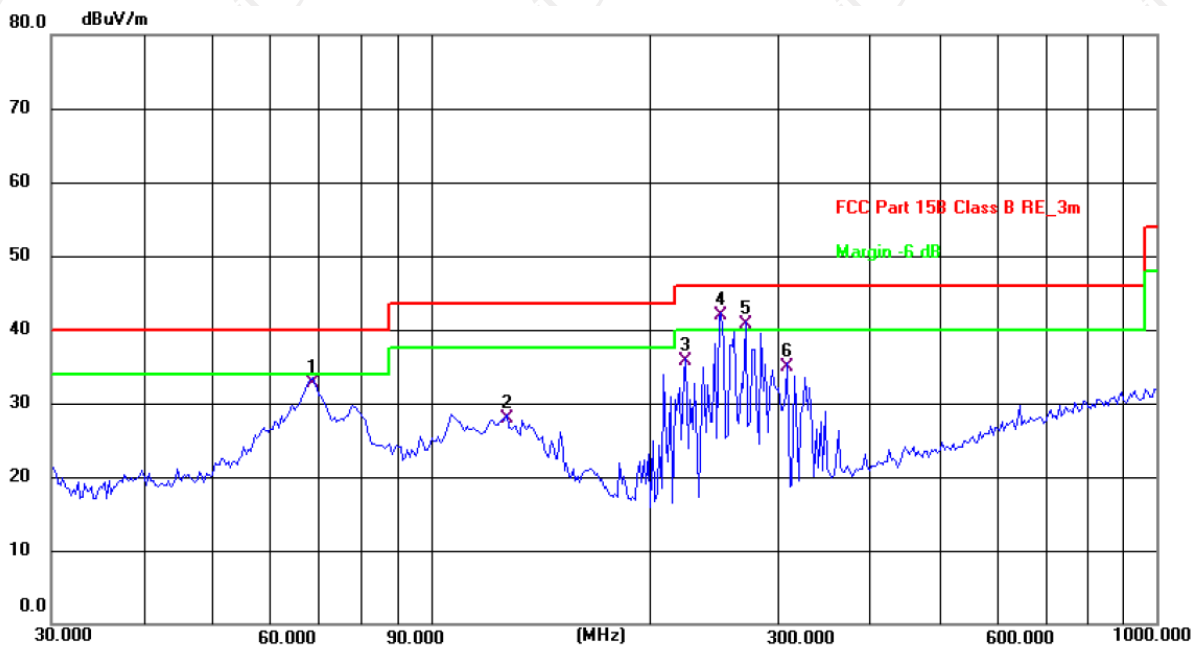
5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 30, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 30, 2024
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jun. 30, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 30, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 30, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.7.3. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:

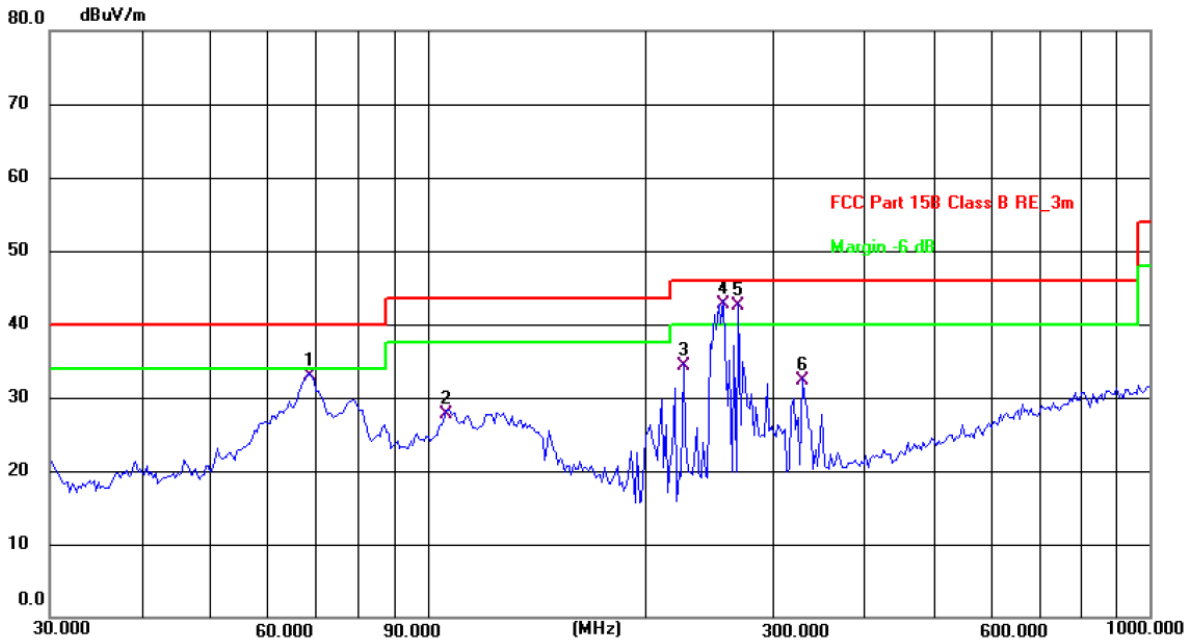


Site: #1 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 26.3(C) Humidity: 55 %

Limit: FCC Part 15B Class B RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	68.6310	21.55	11.07	32.62	40.00	-7.38	QP	P	
2	127.2176	14.77	13.04	27.81	43.50	-15.69	QP	P	
3	224.5192	23.97	11.66	35.63	46.00	-10.37	QP	P	
4 *	251.1802	29.42	12.46	41.88	46.00	-4.12	QP	P	
5 !	271.3245	27.56	13.19	40.75	46.00	-5.25	QP	P	
6	309.9977	20.64	14.32	34.96	46.00	-11.04	QP	P	

Vertical:



Site: #1 3m Anechoic Chamber Polarization: **Vertical** Temperature: 26.3(C) Humidity: 55 %

Limit: FCC Part 15B Class B RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	68.6310	21.74	11.07	32.81	40.00	-7.19	QP	P	
2	106.0126	16.44	11.18	27.62	43.50	-15.88	QP	P	
3	226.0994	22.48	11.77	34.25	46.00	-11.75	QP	P	
4 *	256.5210	30.06	12.57	42.63	46.00	-3.37	QP	P	
5 !	269.4282	29.38	13.13	42.51	46.00	-3.49	QP	P	
6	330.1947	17.56	14.75	32.31	46.00	-13.69	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 (Middle channel and 802.11n(HT20)) 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

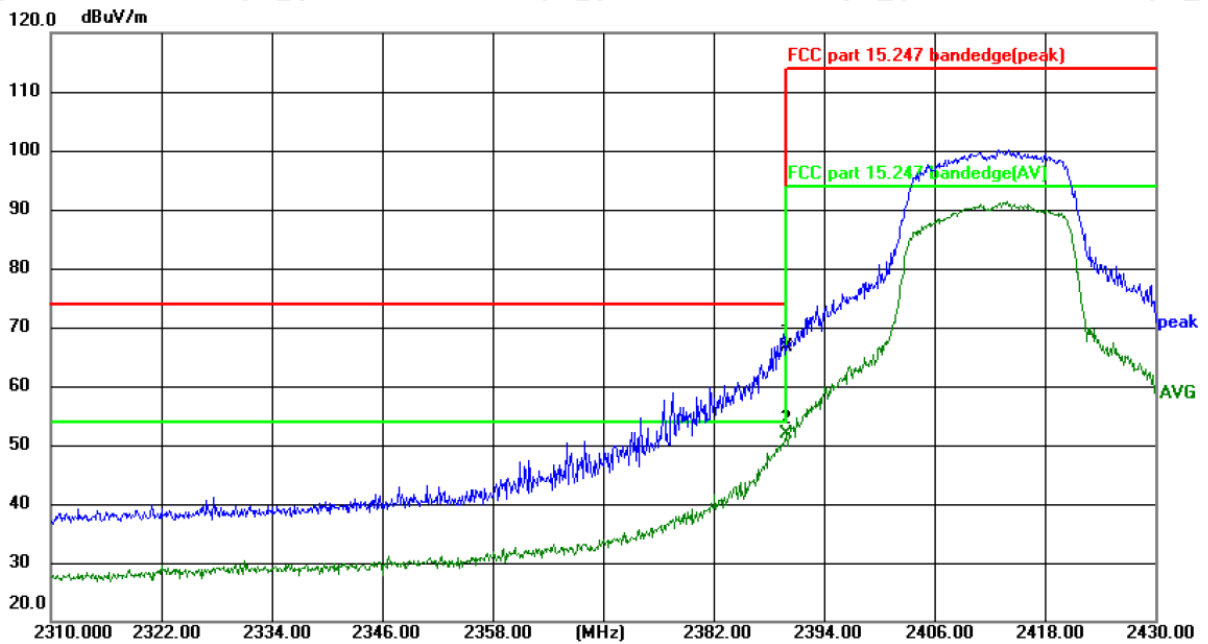
Margin (dB) = Measurement (dBuV/m) – Limits (dBuV/m)

* is meaning the worst frequency has been tested in the test frequency range.

Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

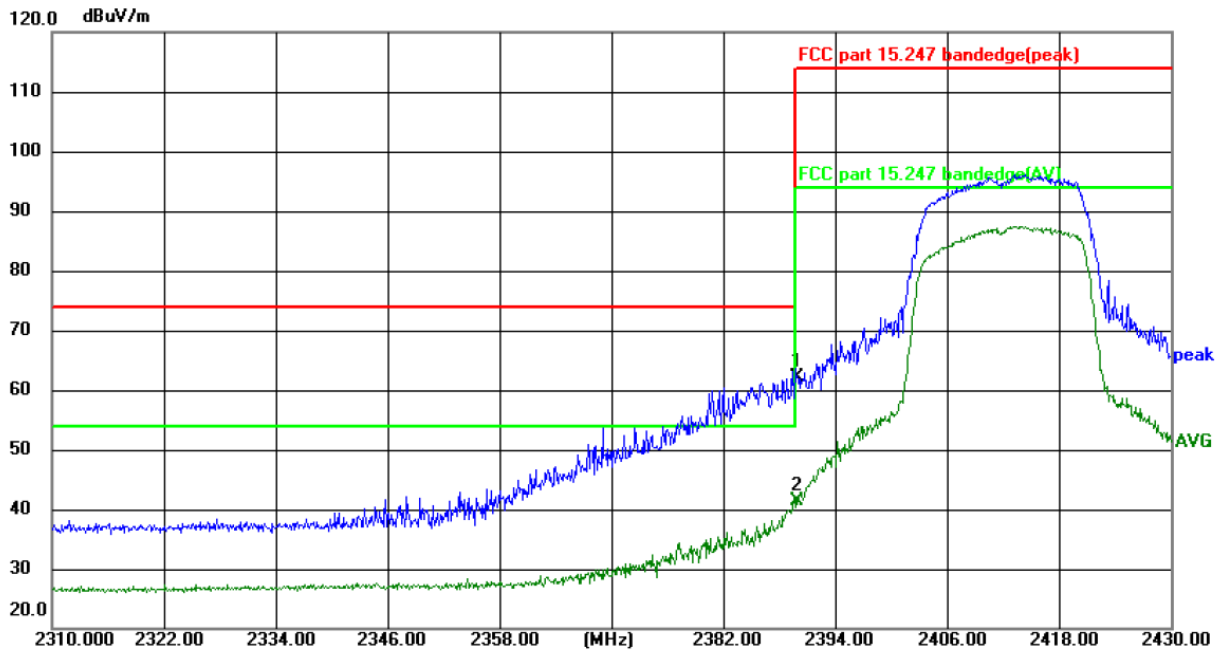


Site: #3 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 25.8(°C) Humidity: 53 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	83.73	-17.10	66.63	74.00	-7.37	peak	P	
2 *	2390.000	69.03	-17.10	51.93	54.00	-2.07	AVG	P	

Vertical:



Site: #3 3m Anechoic Chamber Polarization: **Vertical** Temperature: 25.8(°C) Humidity: 53 %

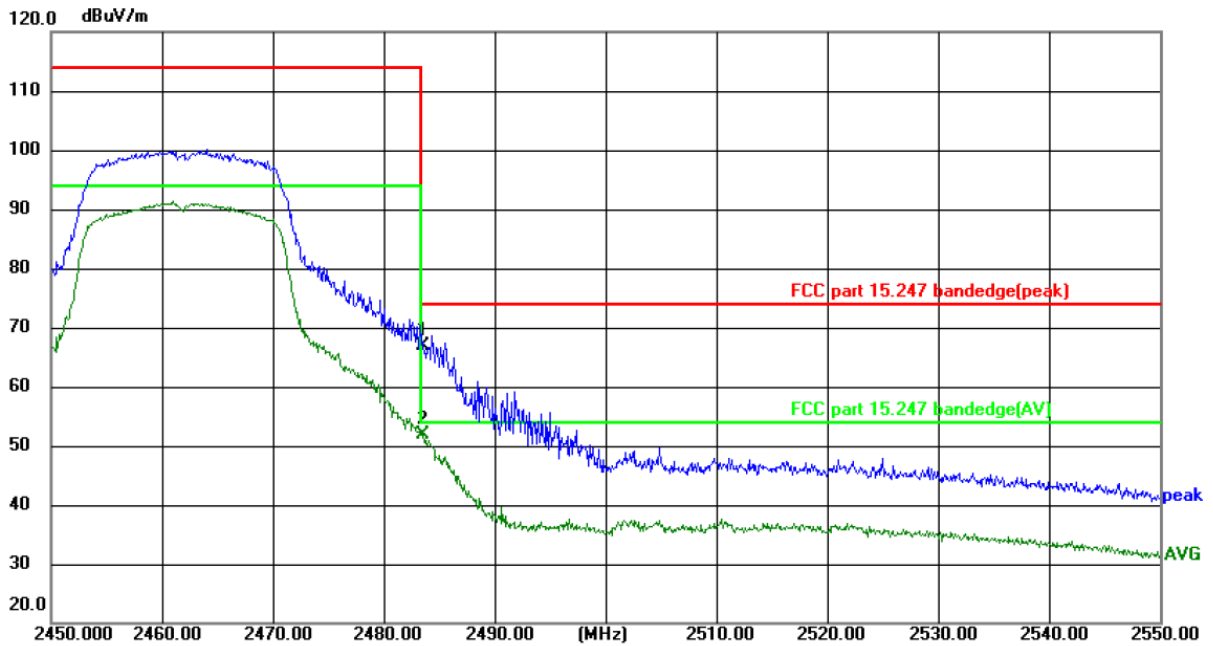
Limit: FCC part 15.247 bandedge(peak) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	79.25	-17.10	62.15	74.00	-11.85	peak	P	
2	2390.000	58.43	-17.10	41.33	54.00	-12.67	AVG	P	

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(HT20) was submitted only.

Highest channel 2462:

Horizontal:



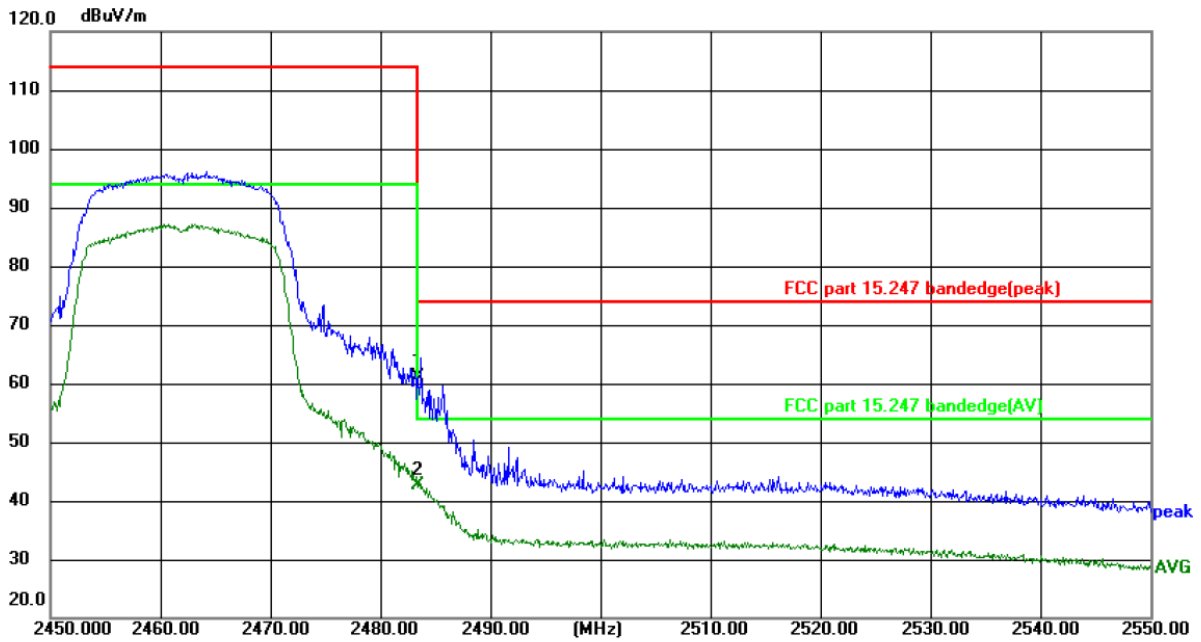
Site: #3 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 25.8(°C) Humidity: 53 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	83.84	-16.88	66.96	74.00	-7.04	peak	P	
2 *	2483.500	68.84	-16.88	51.96	54.00	-2.04	AVG	P	



Vertical:



Site: #3 3m Anechoic Chamber Polarization: **Vertical** Temperature: 25.8(°C) Humidity: 53 %

Limit: FCC part 15.247 bandedge(peak) Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	78.05	-16.88	61.17	74.00	-12.83	peak	P	
2 *	2483.500	59.48	-16.88	42.60	54.00	-11.40	AVG	P	

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(HT20) 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	45.02	---	0.75	45.77	---	74	54	-8.23
7236	H	34.59	---	9.87	44.46	---	74	54	-9.54
---	H	---	---	---	---	---	---	---	---
4824	V	45.63	---	0.75	46.38	---	74	54	-7.62
7236	V	36.01	---	9.87	45.88	---	74	54	-8.12
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 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)			
4874	H	45.08	---	0.97	46.05	---	74	54	-7.95
7311	H	34.34	---	9.83	44.17	---	74	54	-9.83
---	H	---	---	---	---	---	---	---	---
4874	V	43.64	---	0.97	44.61	---	74	54	-9.39
7311	V	34.38	---	9.83	44.21	---	74	54	-9.79
---	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	45.46	---	1.18	46.64	---	74	54	-7.36
7386	H	35.22	---	10.07	45.29	---	74	54	-8.71
---	H	---	---	---	---	---	---	---	---
4924	V	43.85	---	1.18	45.03	---	74	54	-8.97
7386	V	34.71	---	10.07	44.78	---	74	54	-9.22
---	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. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11g

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	44.06	---	0.75	44.81	---	74	54	-9.19
7236	H	34.27	---	9.87	44.14	---	74	54	-9.86
---	H	---	---	---	---	---	---	---	---
4824	V	45.43	---	0.75	46.18	---	74	54	-7.82
7236	V	34.52	---	9.87	44.39	---	74	54	-9.61
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 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)			
4874	H	44.15	---	0.97	45.12	---	74	54	-8.88
7311	H	34.66	---	9.83	44.49	---	74	54	-9.51
---	H	---	---	---	---	---	---	---	---
4874	V	45.07	---	0.97	46.04	---	74	54	-7.96
7311	V	35.63	---	9.83	45.46	---	74	54	-8.54
---	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	44.57	---	1.18	45.75	---	74	54	-8.25
7386	H	35.42	---	10.07	45.49	---	74	54	-8.51
---	H	---	---	---	---	---	---	---	---
4924	V	45.18	---	1.18	46.36	---	74	54	-7.64
7386	V	35.27	---	10.07	45.34	---	74	54	-8.66
---	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. All the restriction bands are compliance with the limit of 15.209.

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	45.28	---	0.75	46.03	---	74	54	-7.97
7236	H	34.57	---	9.87	44.44	---	74	54	-9.56
---	H	---	---	---	---	---	---	---	---
4824	V	44.77	---	0.75	45.52	---	74	54	-8.48
7236	V	34.96	---	9.87	44.83	---	74	54	-9.17
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 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)			
4874	H	44.52	---	0.97	45.49	---	74	54	-8.51
7311	H	35.13	---	9.83	44.96	---	74	54	-9.04
---	H	---	---	---	---	---	---	---	---
4874	V	45.09	---	0.97	46.06	---	74	54	-7.94
7311	V	35.18	---	9.83	45.01	---	74	54	-8.99
---	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	45.07	---	1.18	46.25	---	74	54	-7.75
7386	H	34.65	---	10.07	44.72	---	74	54	-9.28
---	H	---	---	---	---	---	---	---	---
4924	V	44.35	---	1.18	45.53	---	74	54	-8.47
7386	V	34.81	---	10.07	44.88	---	74	54	-9.12
---	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. All the restriction bands are compliance with the limit of 15.209.

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	45.83	---	0.75	46.58	---	74	54	-7.42
7266	H	35.76	---	9.87	45.63	---	74	54	-8.37
---	H	---	---	---	---	---	---	---	---
4824	V	44.54	---	0.75	45.29	---	74	54	-8.71
7236	V	34.88	---	9.87	44.75	---	74	54	-9.25
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 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)			
4874	H	44.48	---	0.97	45.45	---	74	54	-8.55
7311	H	34.22	---	9.83	44.05	---	74	54	-9.95
---	H	---	---	---	---	---	---	---	---
4874	V	45.95	---	0.97	46.92	---	74	54	-7.08
7311	V	35.13	---	9.83	44.96	---	74	54	-9.04
---	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	44.84	---	1.18	46.02	---	74	54	-7.98
7356	H	34.61	---	10.07	44.68	---	74	54	-9.32
---	H	---	---	---	---	---	---	---	---
4904	V	45.74	---	1.18	46.92	---	74	54	-7.08
7356	V	35.12	---	10.07	45.19	---	74	54	-8.81
---	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. All the restriction bands are compliance with the limit of 15.209.

Appendix A: Test Result of Conducted Test

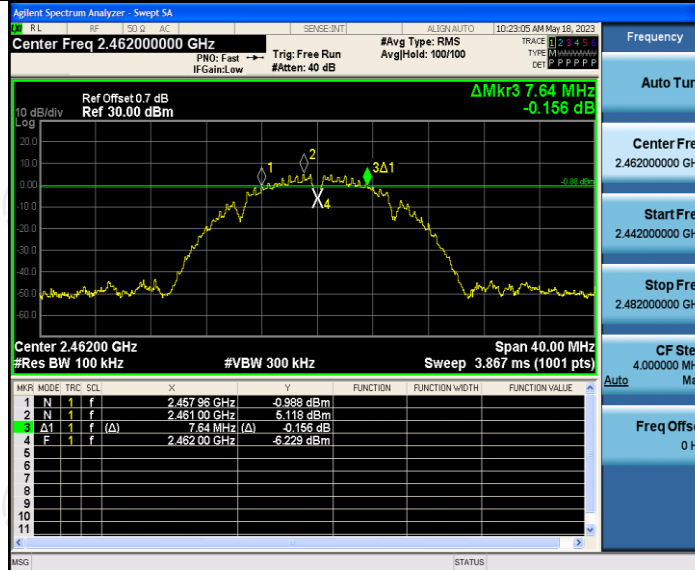
DTS Bandwidth

Test Result

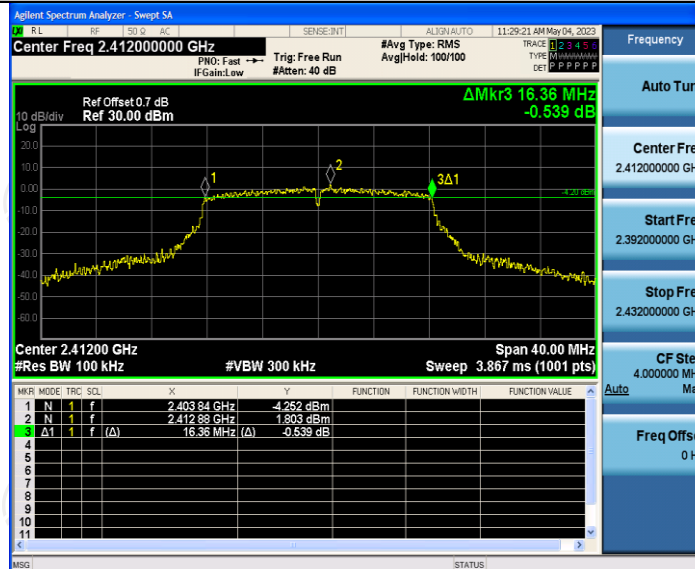
Test Mode	Channel	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	2412	8.160	2407.920	2416.080	0.5	PASS
	2437	8.080	2432.960	2441.040	0.5	PASS
	2462	7.640	2457.960	2465.600	0.5	PASS
11G	2412	16.360	2403.840	2420.200	0.5	PASS
	2437	16.440	2428.800	2445.240	0.5	PASS
	2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	2412	17.680	2403.200	2420.880	0.5	PASS
	2437	17.680	2428.200	2445.880	0.5	PASS
	2462	17.720	2453.160	2470.880	0.5	PASS
11N40SISO	2422	36.240	2404.000	2440.240	0.5	PASS
	2437	36.240	2419.000	2455.240	0.5	PASS
	2452	34.800	2435.440	2470.240	0.5	PASS

Test Graphs

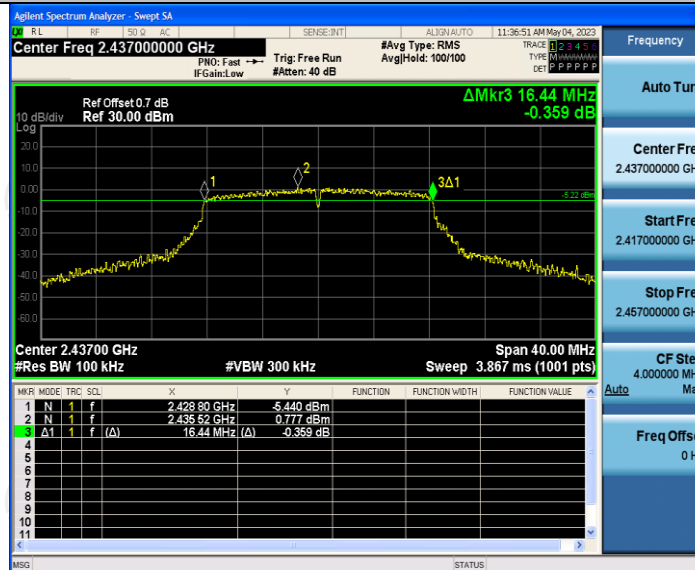




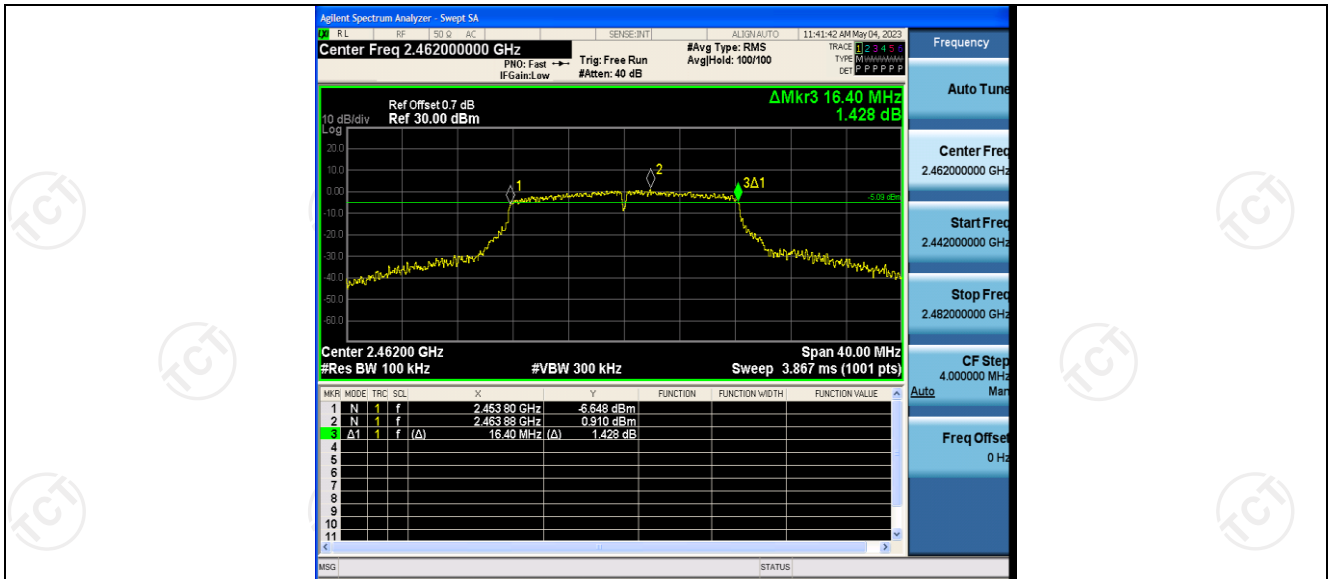
11G_2412



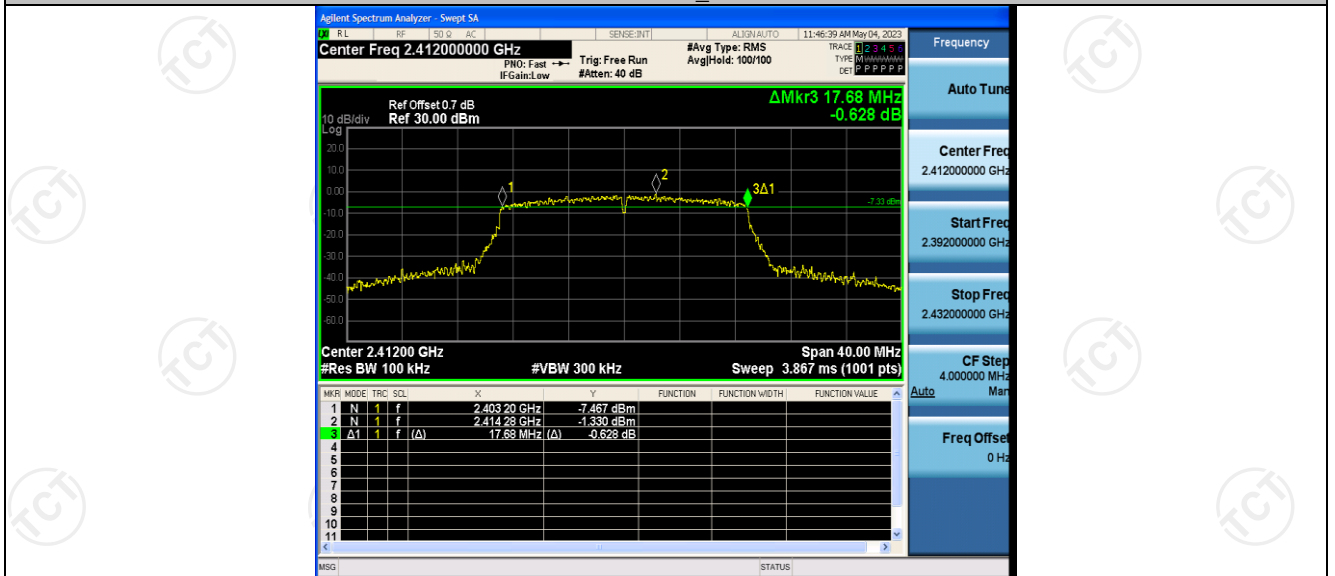
11G_2437



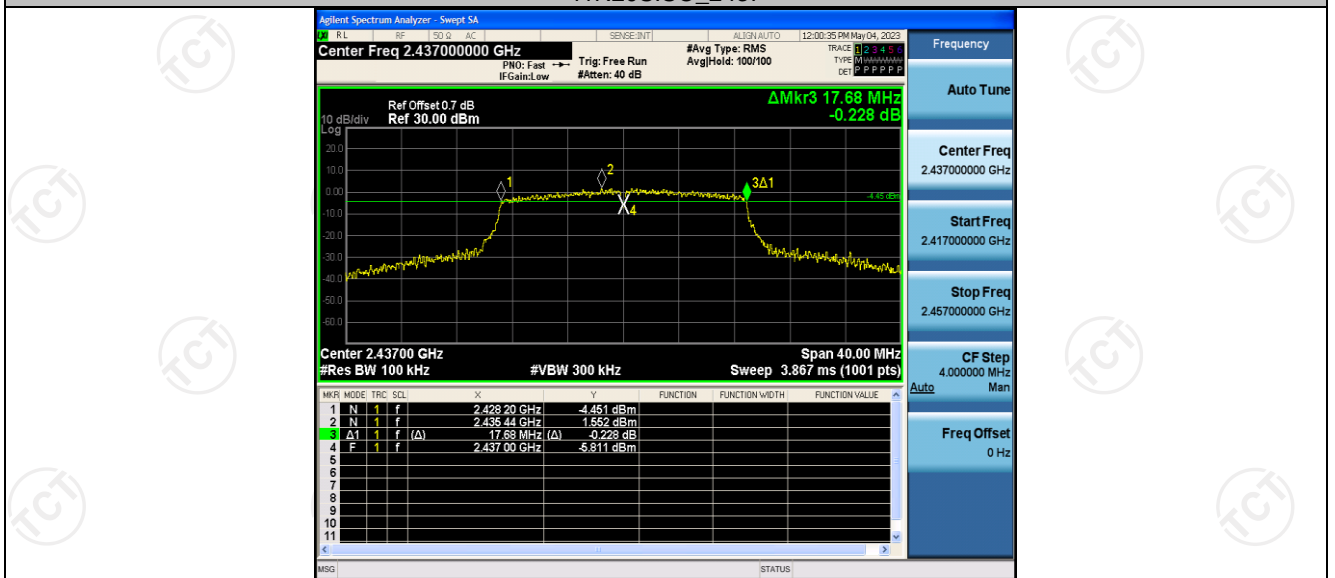
11G_2462



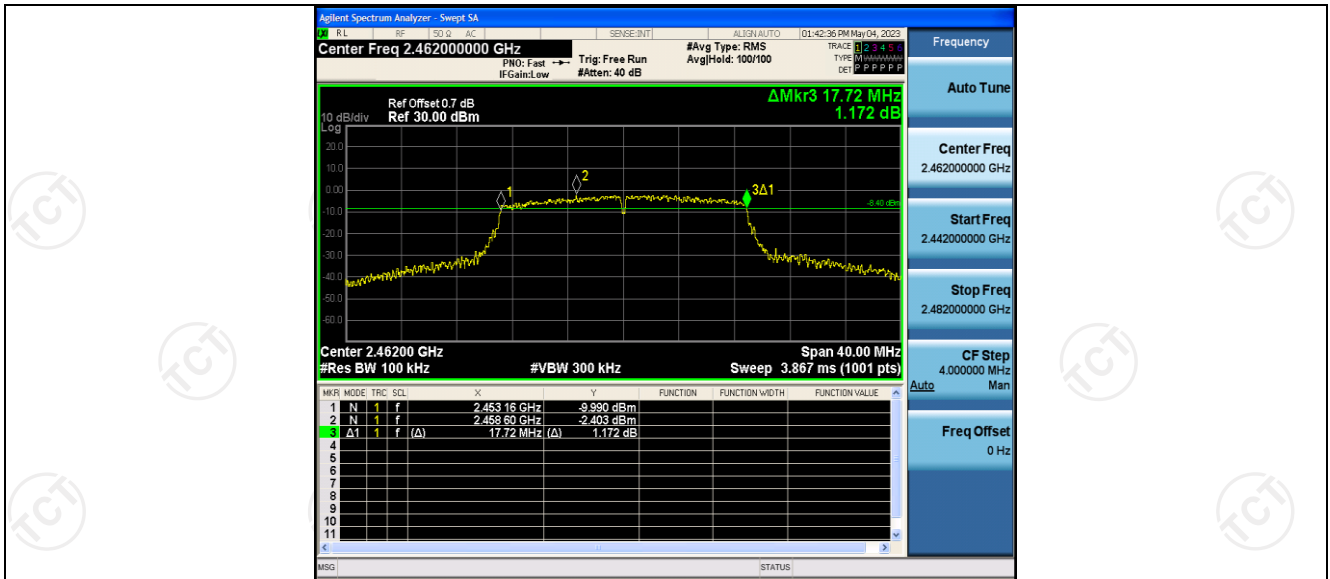
11N20SISO_2412



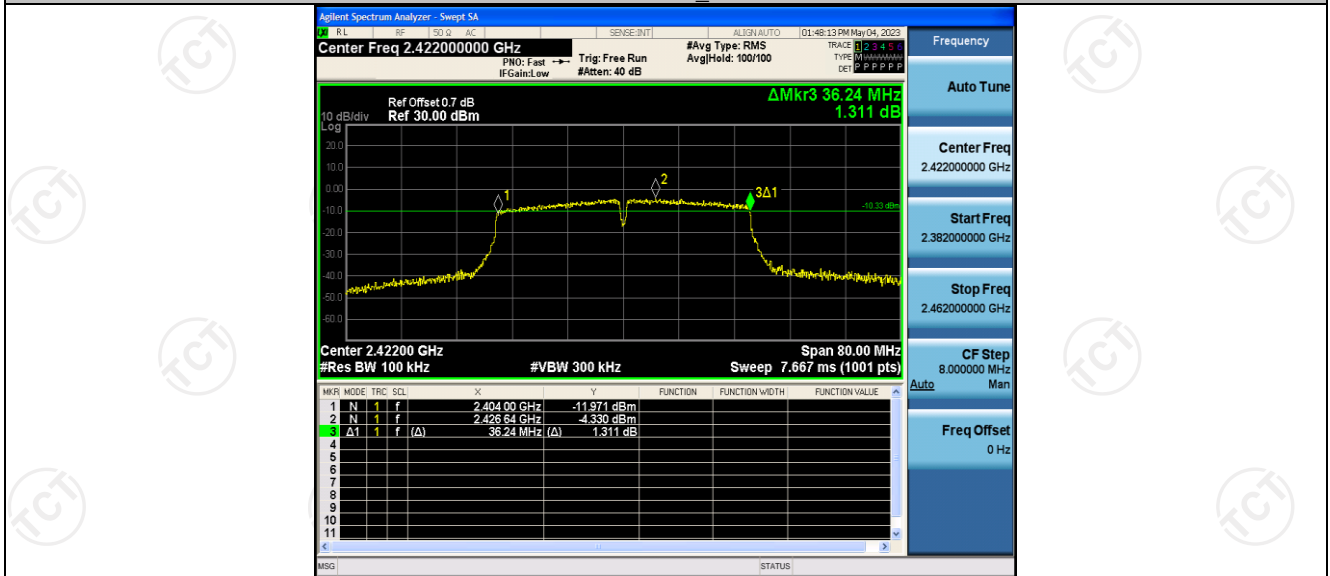
11N20SISO_2437



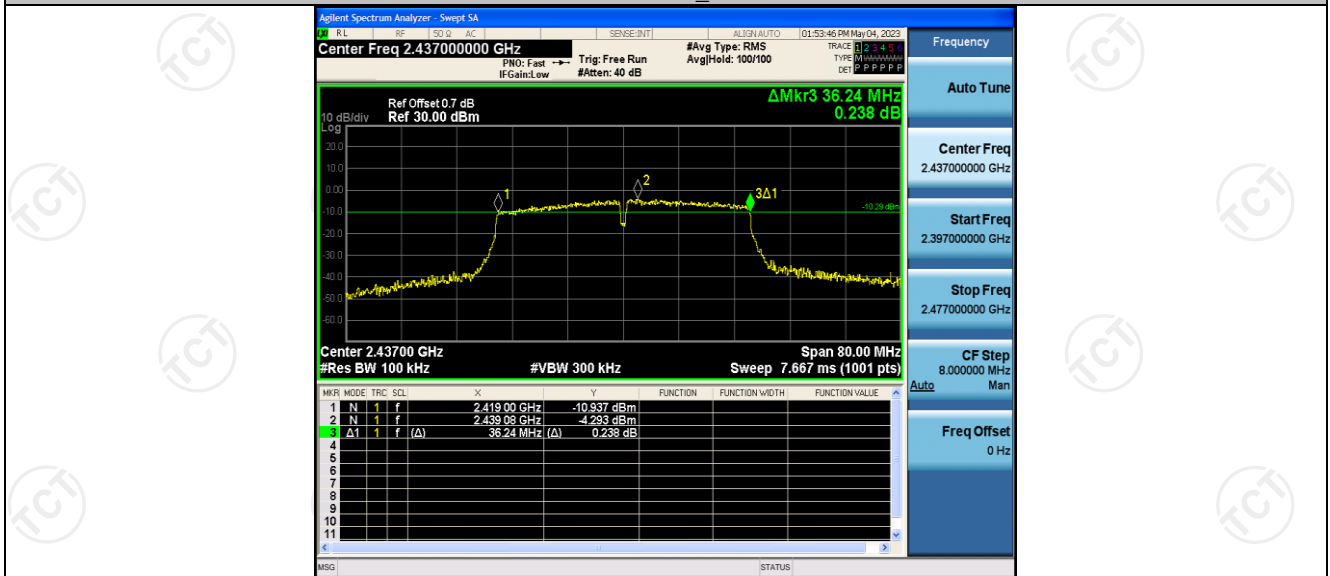
11N20SISO_2462



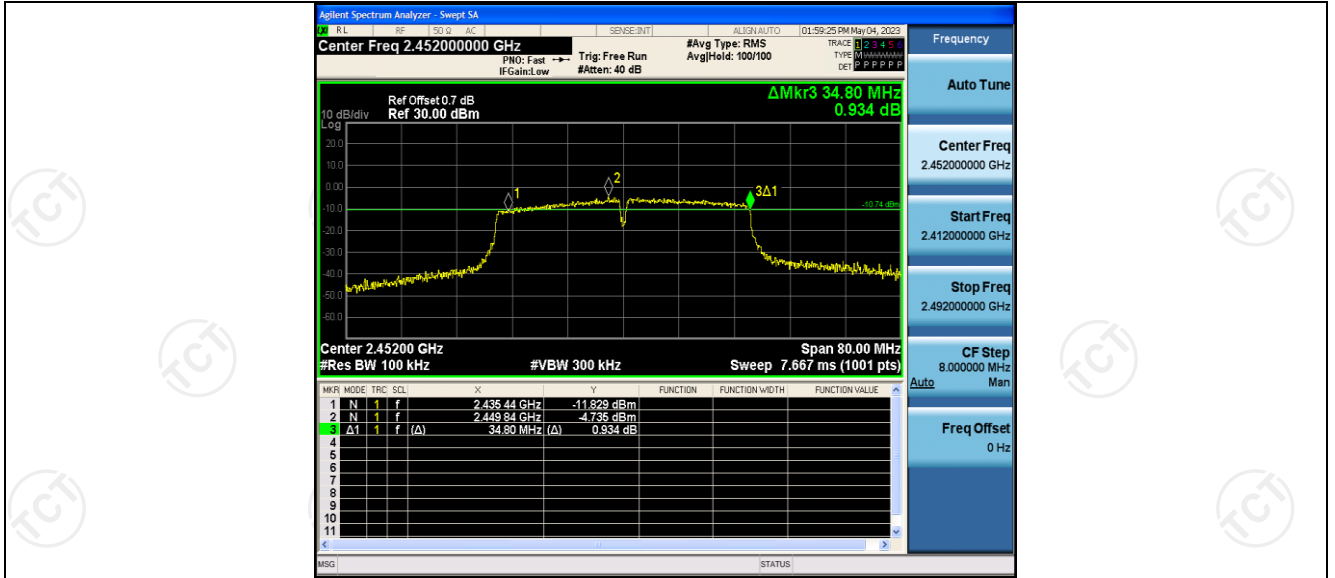
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452

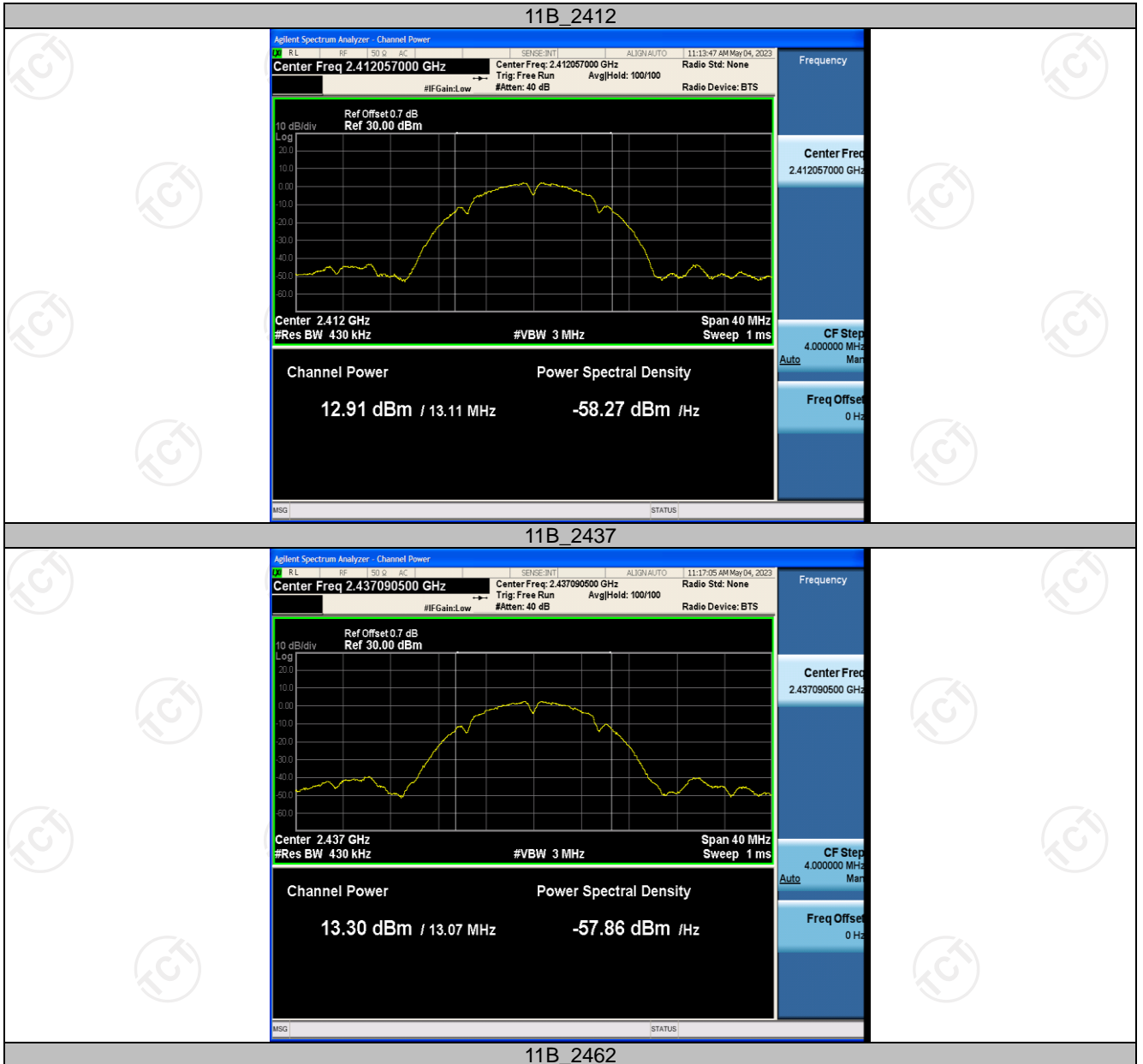


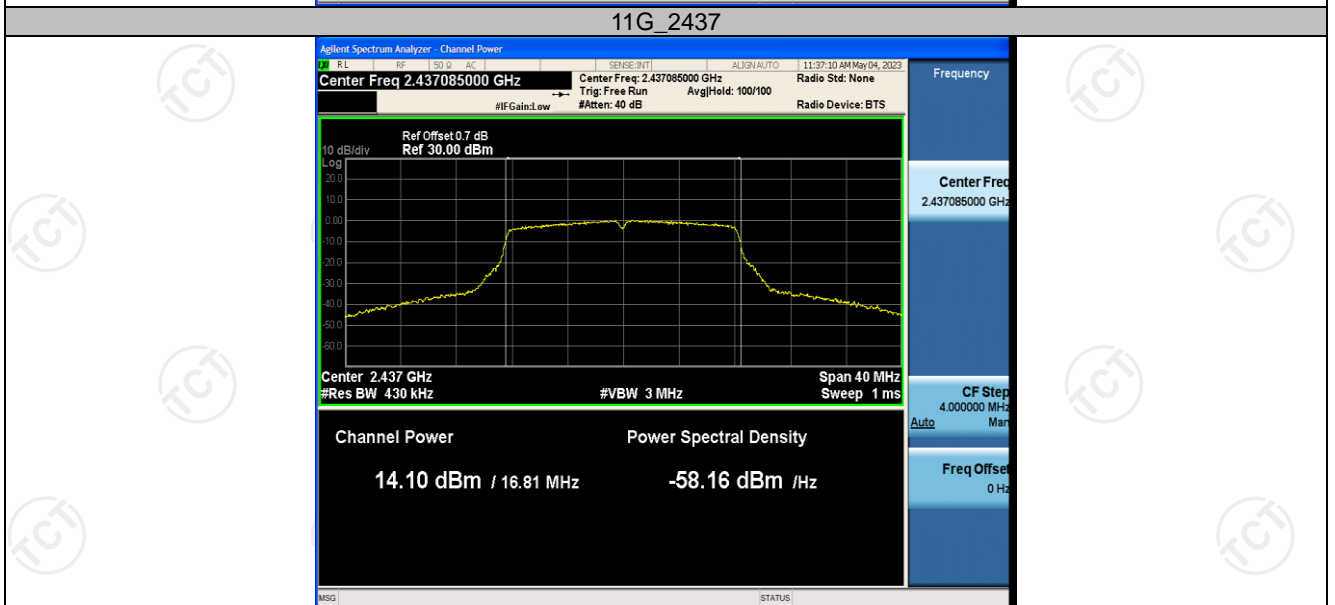
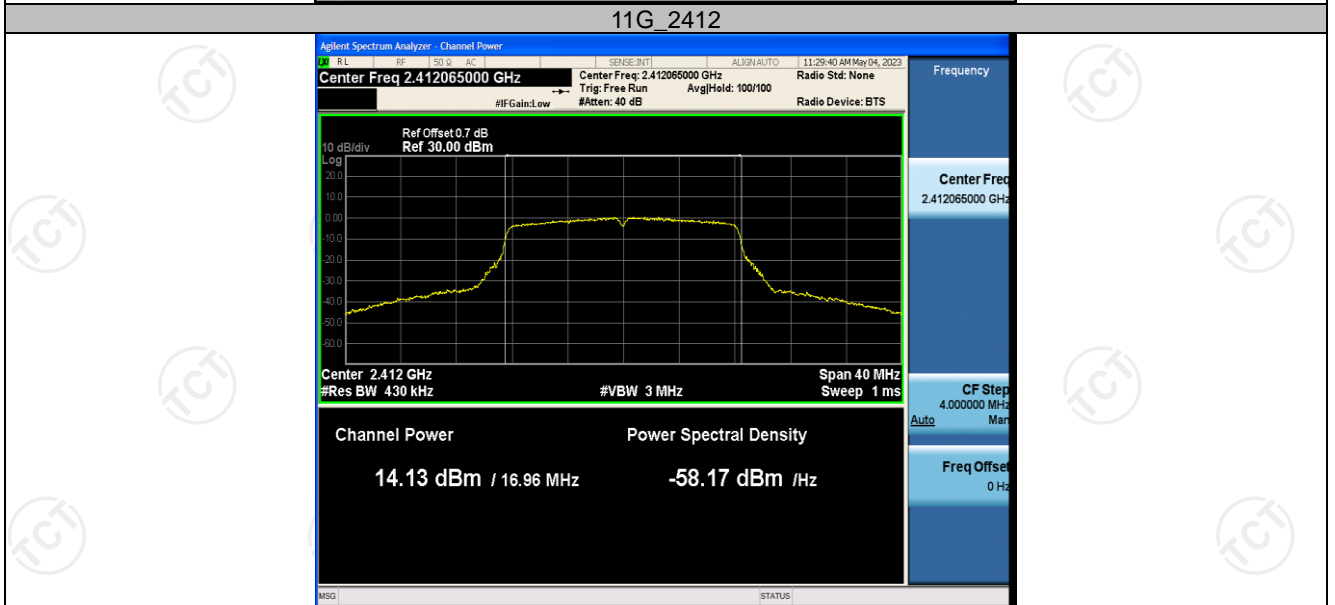
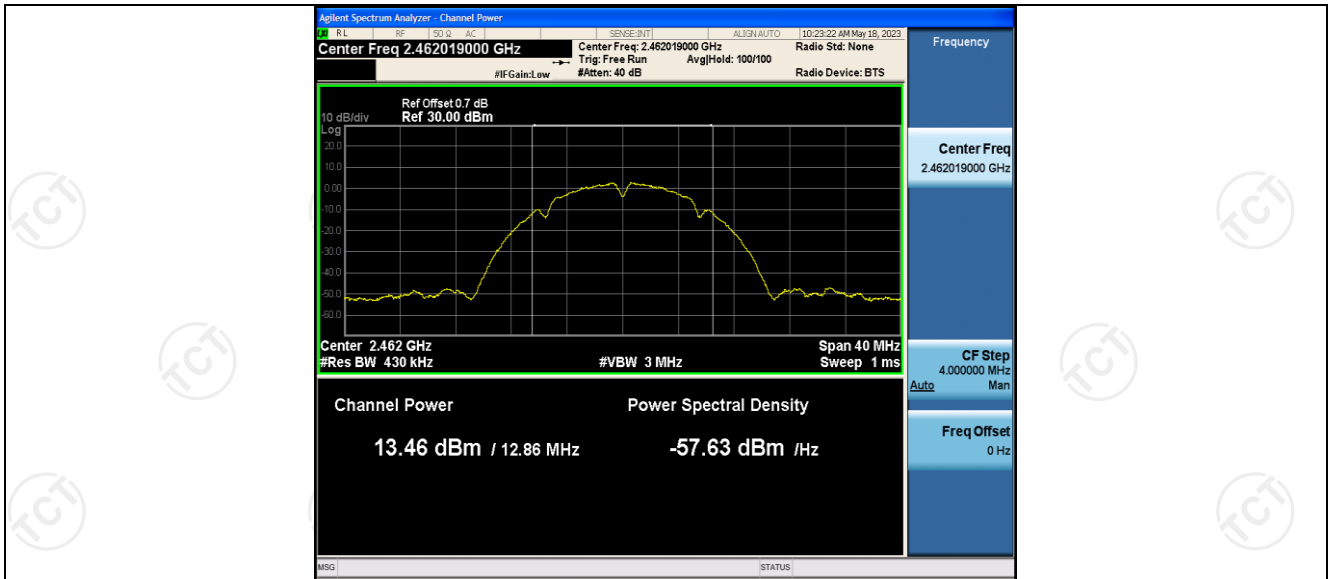
Maximum conducted output power

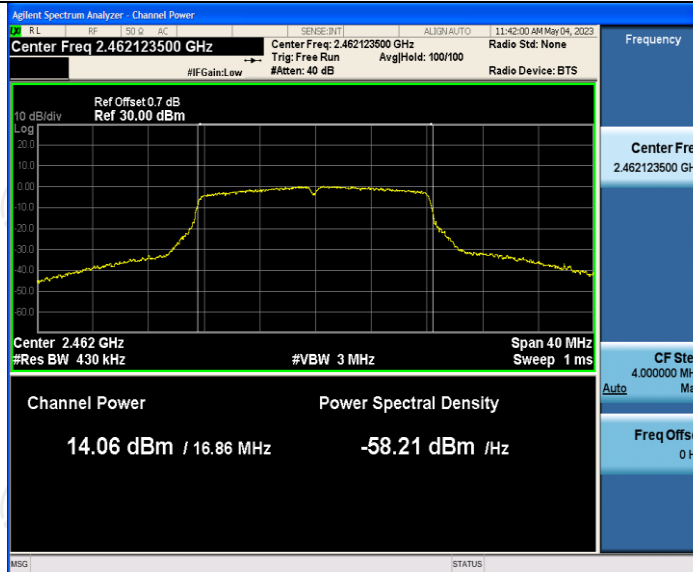
Test Result

Test Mode	Channel	Result [dBm]	Limit [dBm]	Verdict
11B	2412	12.91	<=30	PASS
	2437	13.30	<=30	PASS
	2462	13.46	<=30	PASS
11G	2412	14.13	<=30	PASS
	2437	14.10	<=30	PASS
	2462	14.06	<=30	PASS
11N20SISO	2412	12.30	<=30	PASS
	2437	14.98	<=30	PASS
	2462	11.62	<=30	PASS
11N40SISO	2422	12.19	<=30	PASS
	2437	11.36	<=30	PASS
	2452	11.31	<=30	PASS

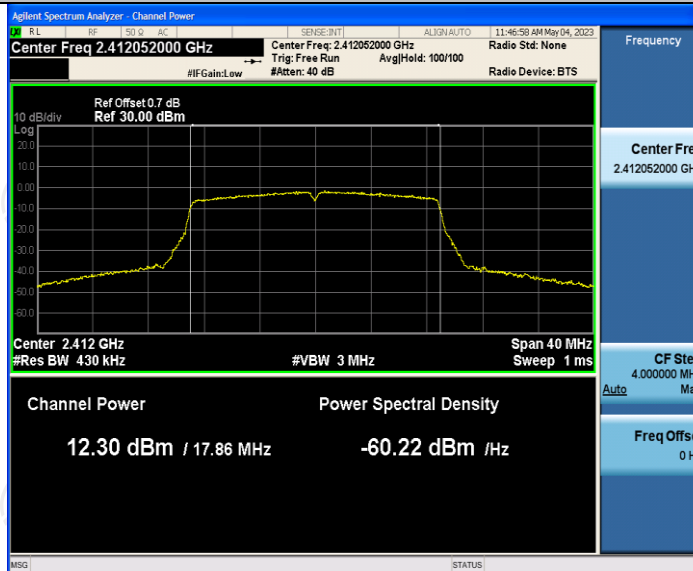
Test Graphs



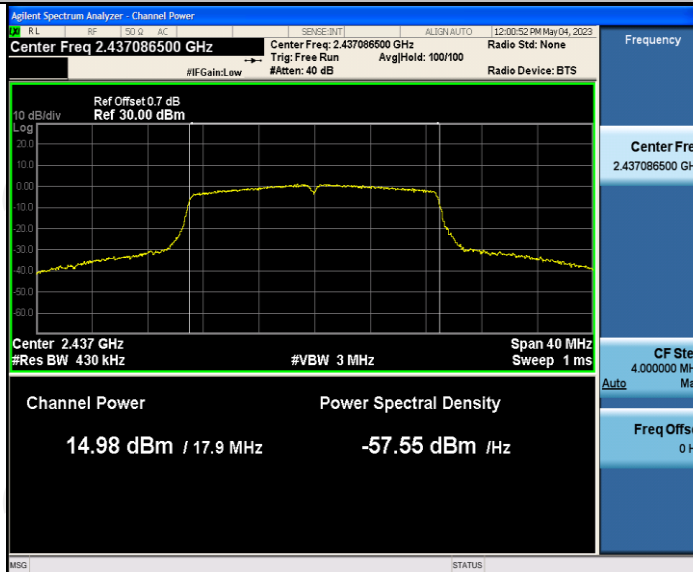




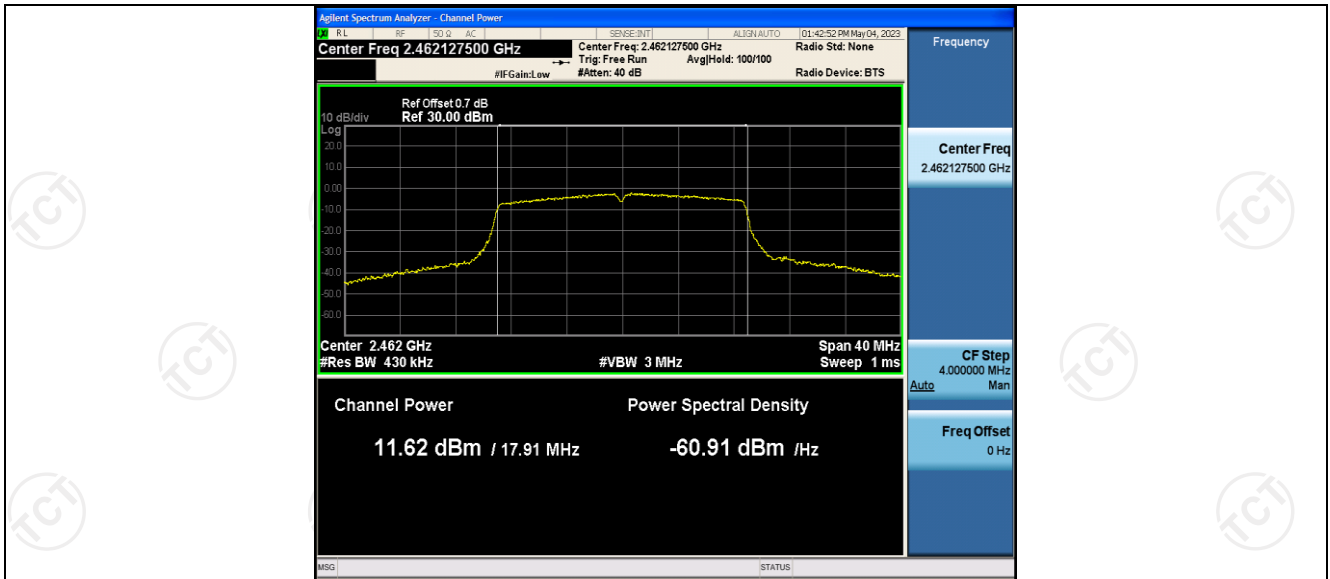
11N20SISO_2412



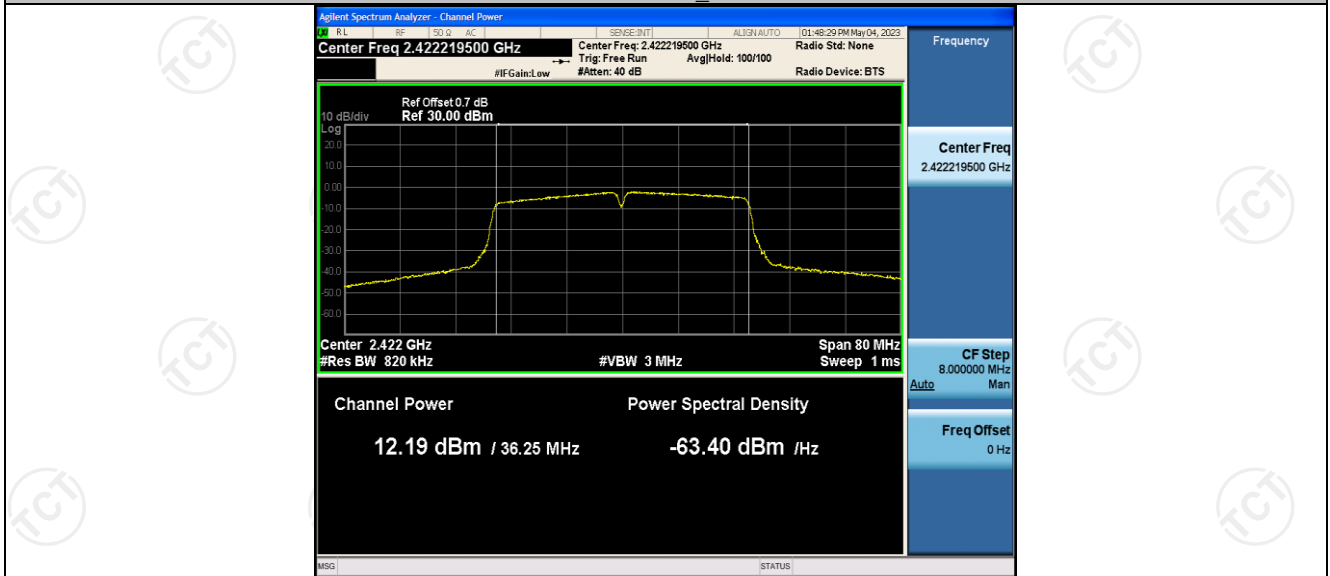
11N20SISO_2437



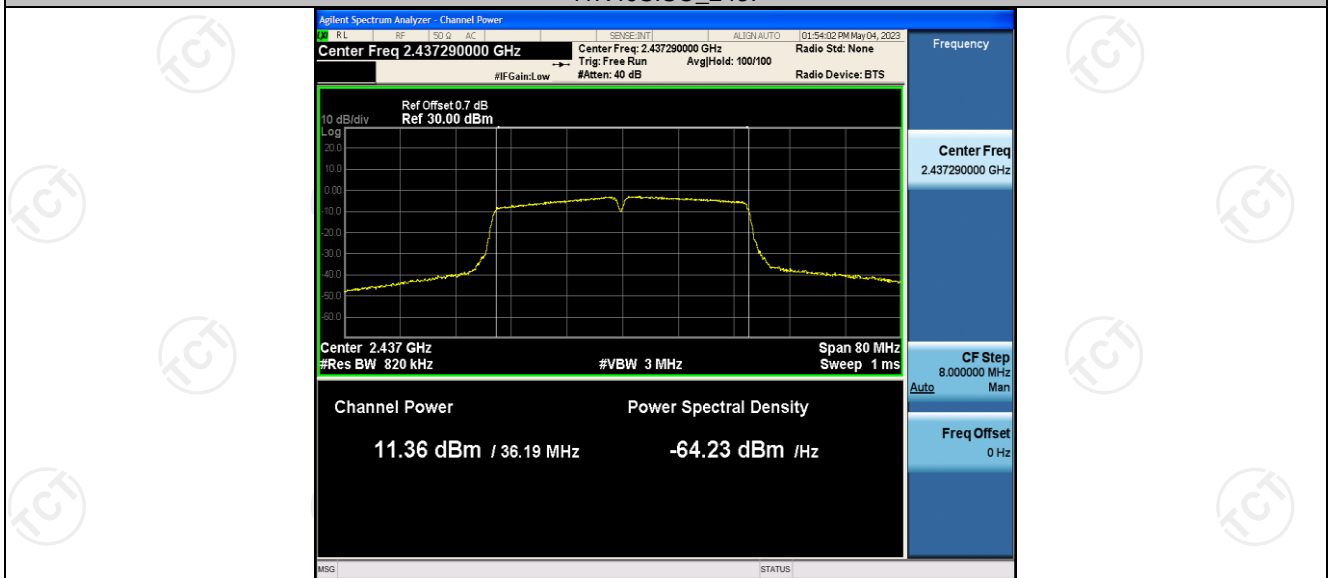
11N20SISO_2462



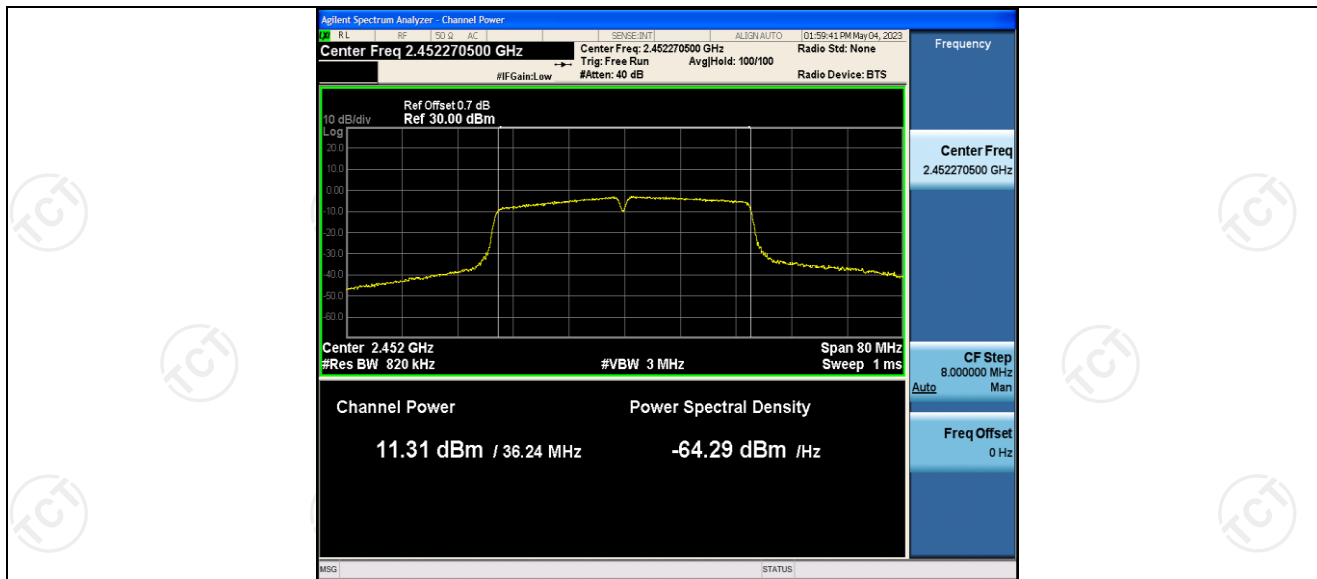
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452



Maximum power spectral density

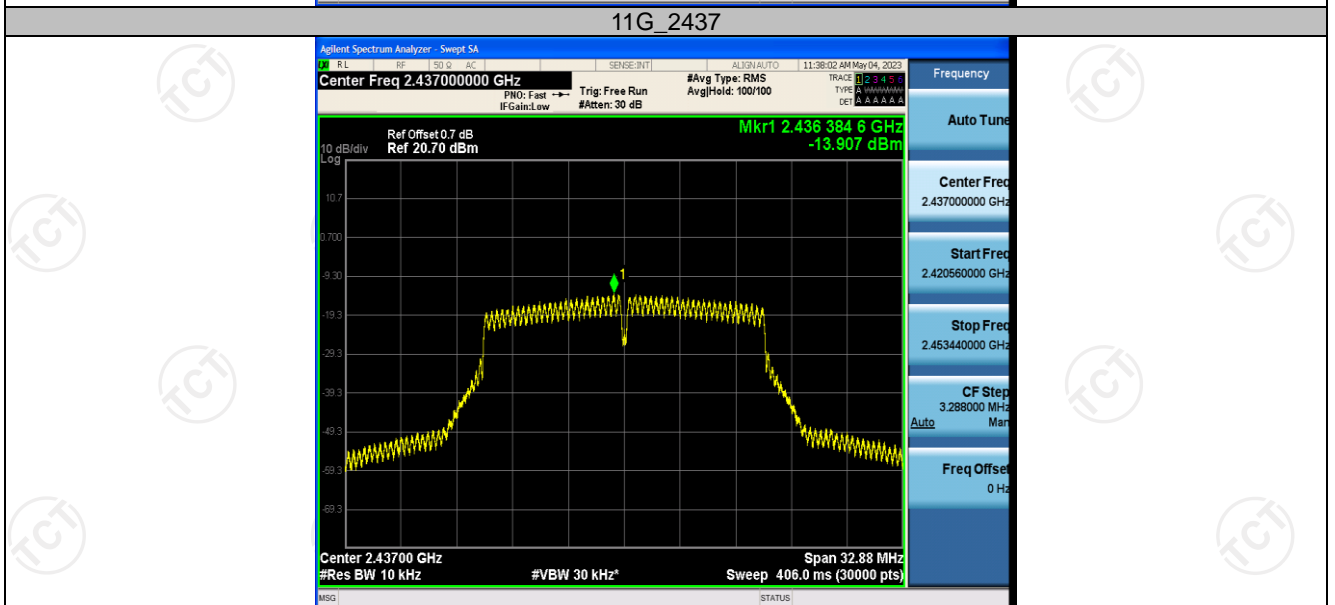
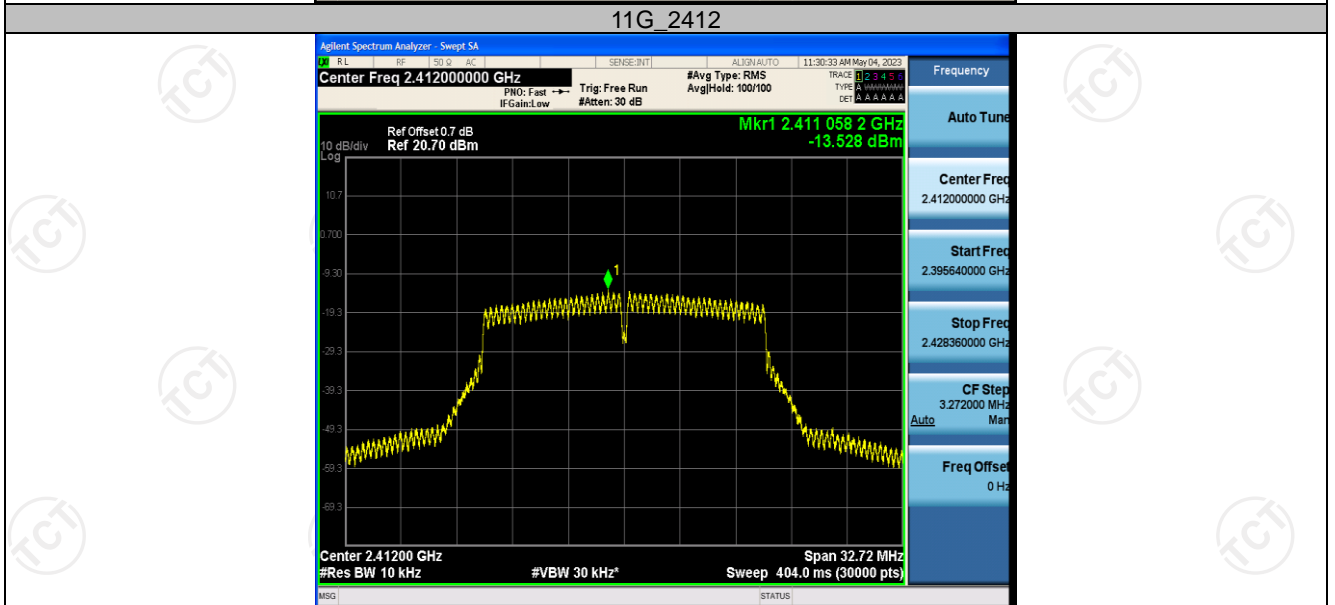
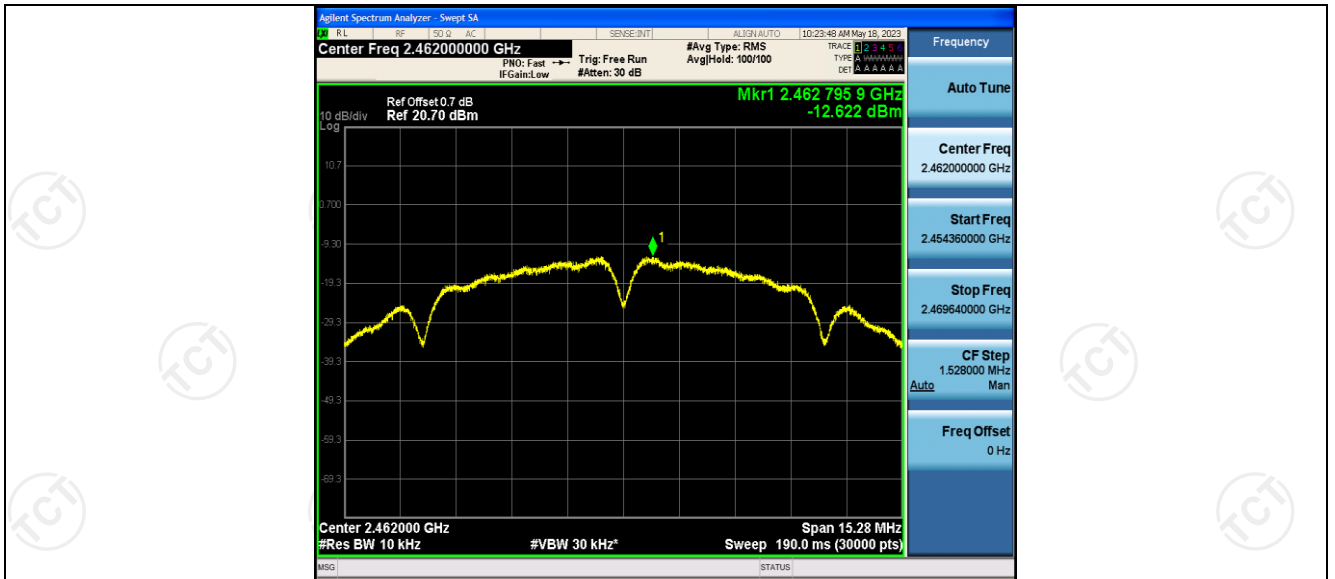
Test Result

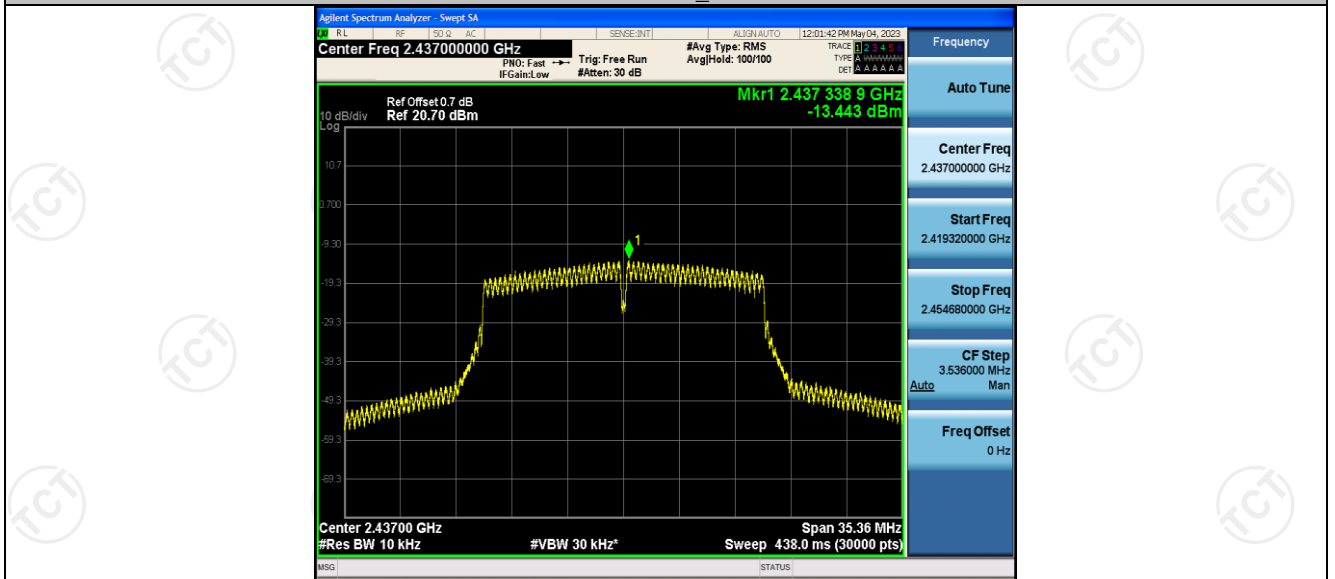
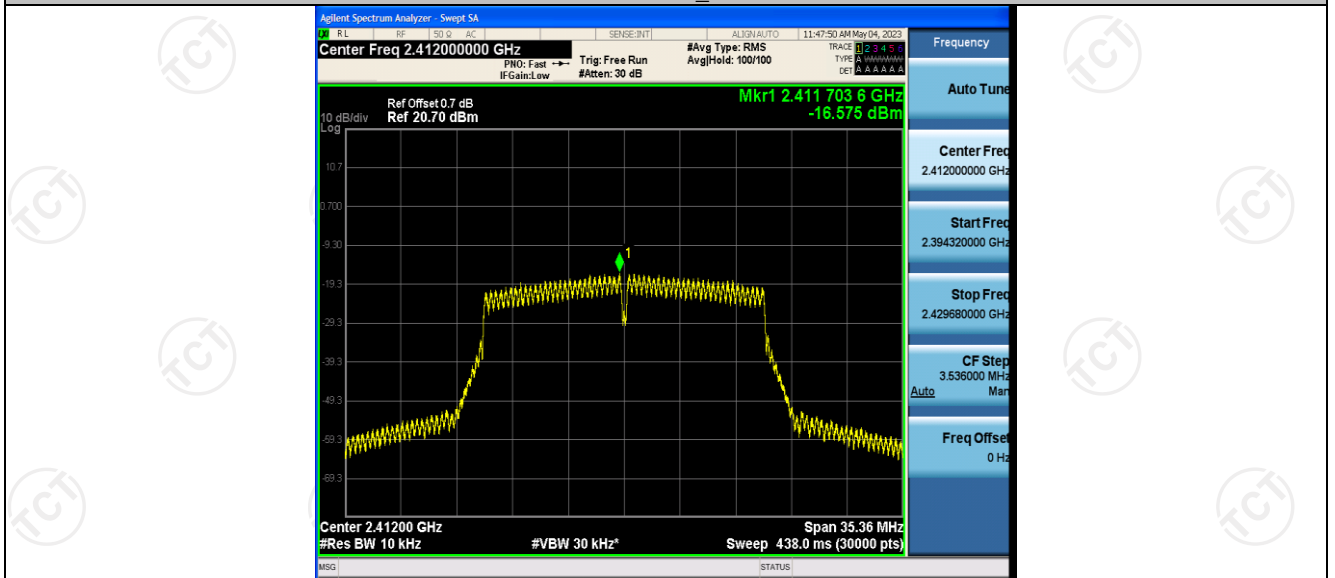
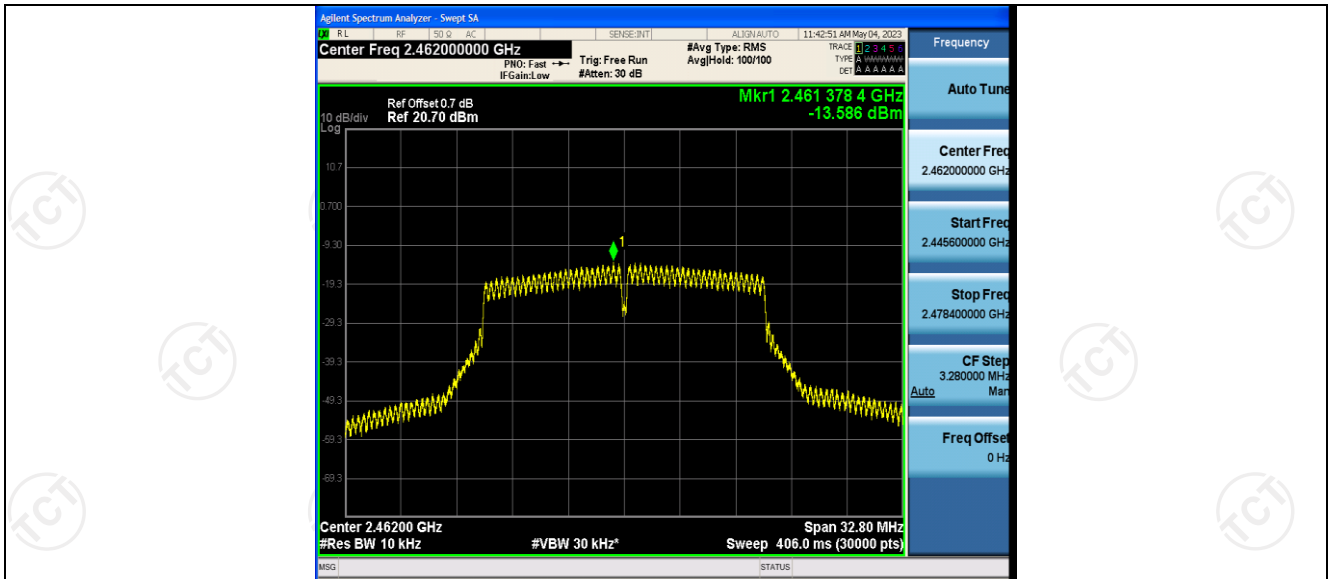
Test Mode	Channel	Conducted PSD [dBm/10kHz]	Conducted PSD [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	2412	-13.70	-18.93	<=8	PASS
	2437	-12.83	-18.06	<=8	PASS
	2462	-12.62	-17.85	<=8	PASS
11G	2412	-13.53	-18.76	<=8	PASS
	2437	-13.91	-19.14	<=8	PASS
	2462	-13.59	-18.82	<=8	PASS
11N20SISO	2412	-16.58	-21.81	<=8	PASS
	2437	-13.44	-18.67	<=8	PASS
	2462	-16.58	-21.81	<=8	PASS
11N40SISO	2422	-19.17	-24.40	<=8	PASS
	2437	-19.87	-25.10	<=8	PASS
	2452	-19.92	-25.15	<=8	PASS

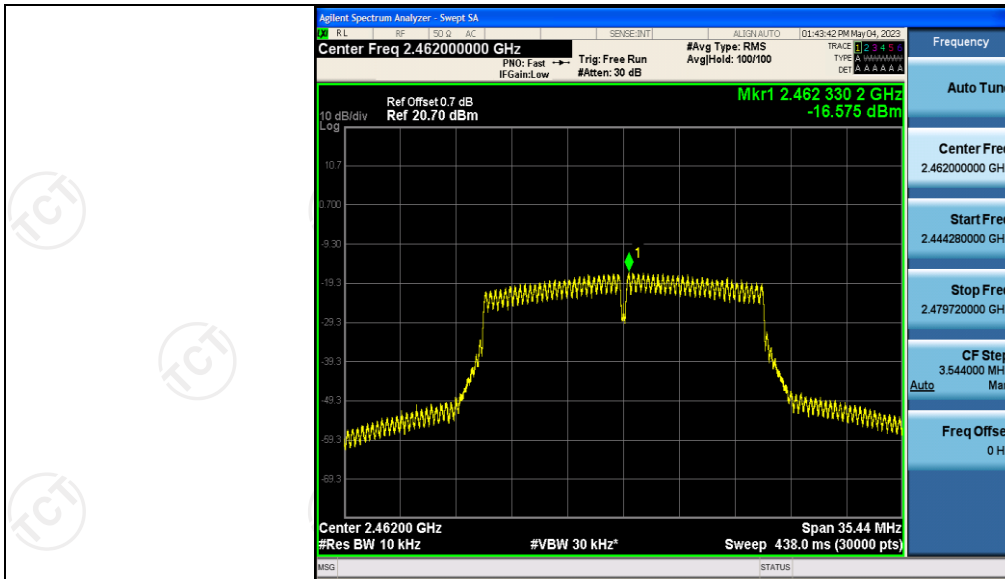
Note: Conducted PSD [dBm/3kHz] = Conducted PSD [dBm/10kHz] +10log(3kHz/10kHz)

Test Graphs

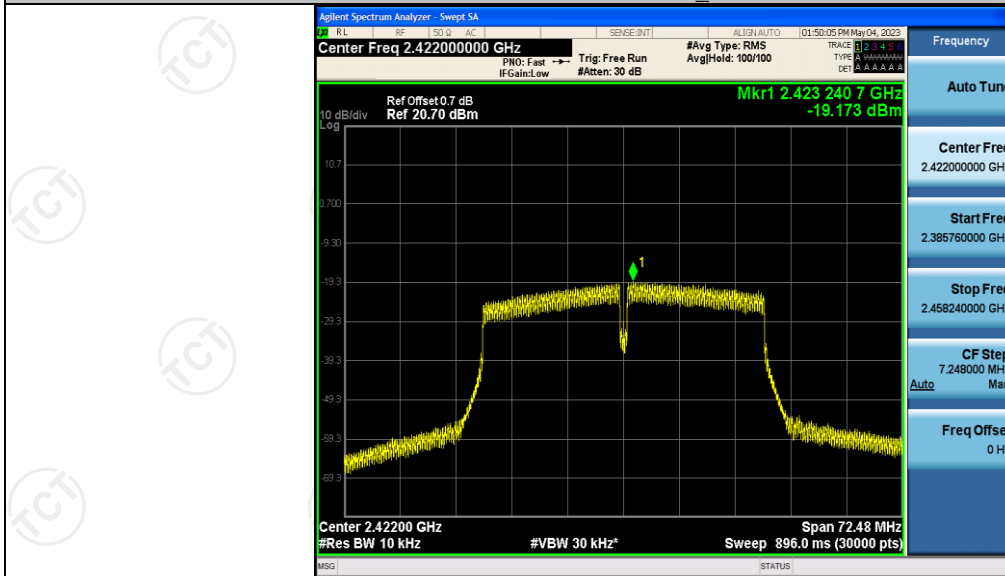




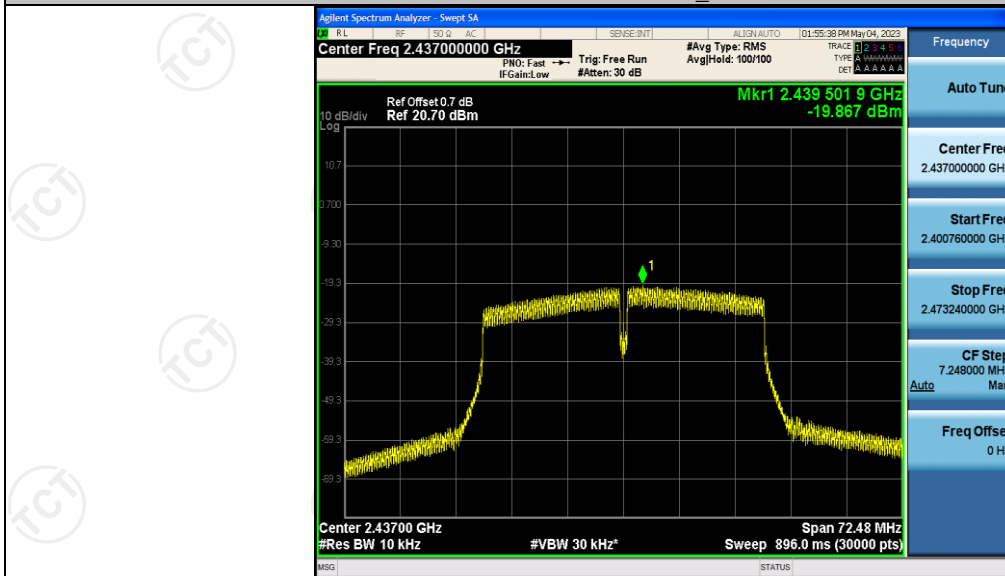




11N40SISO_2422



11N40SISO_2437



11N40SISO_2452

