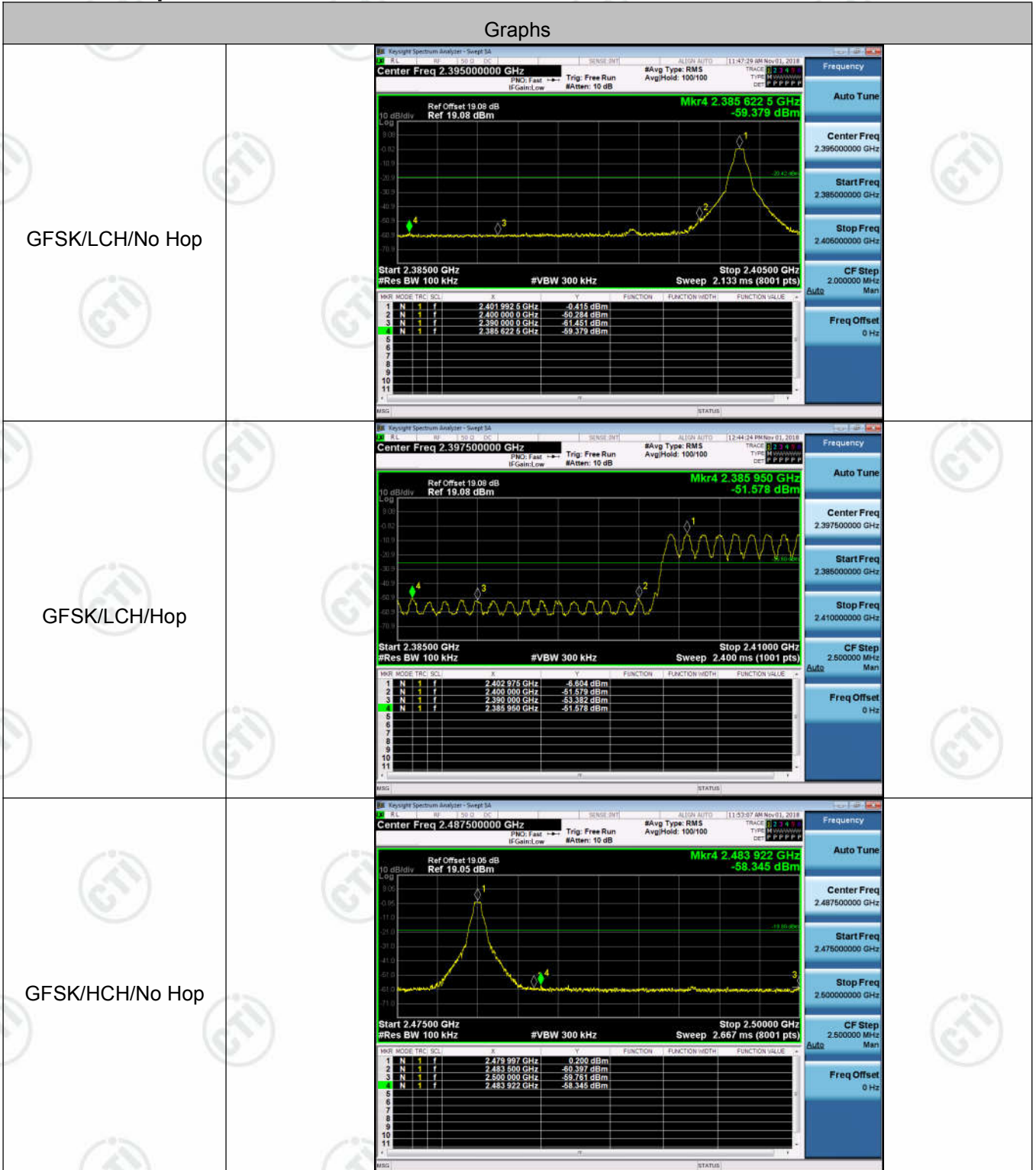


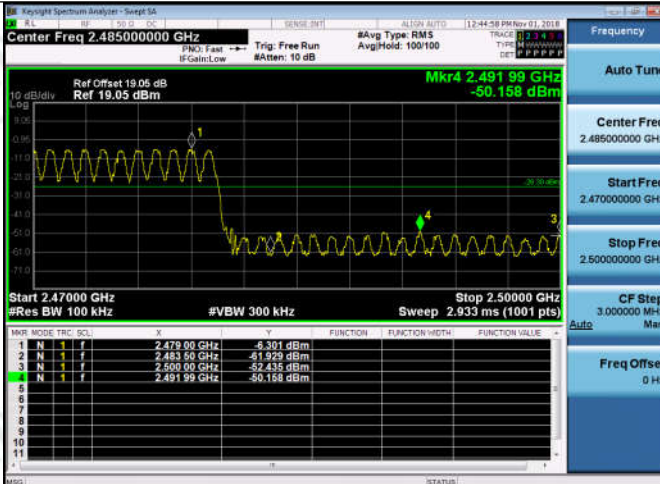
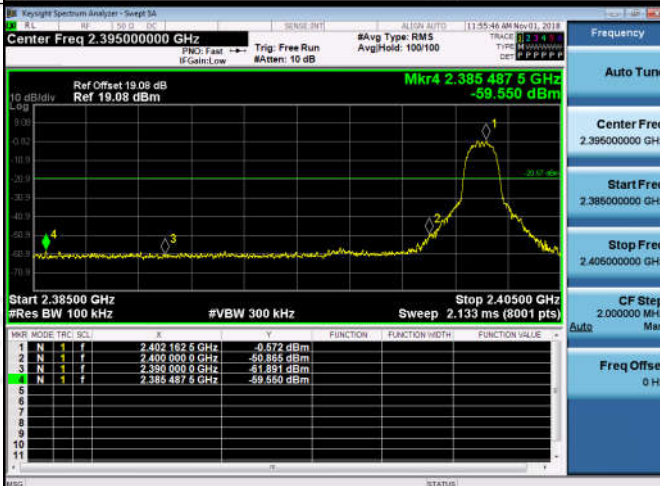
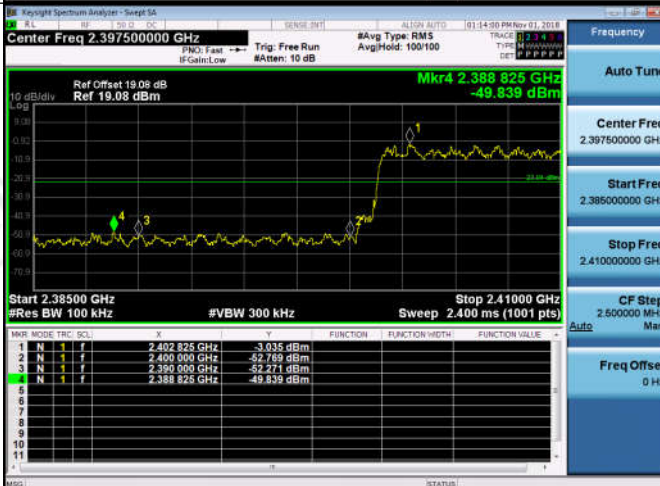
Appendix F): Band-edge for RF Conducted Emissions

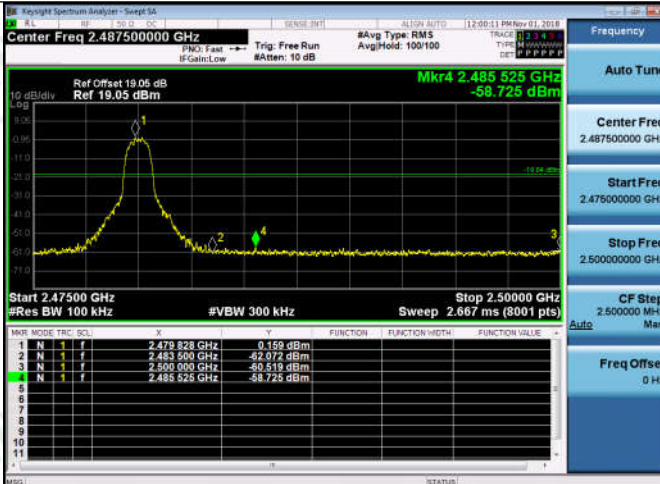
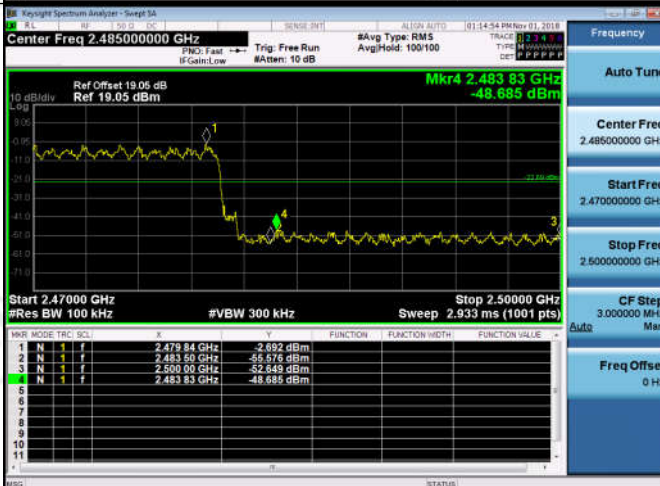
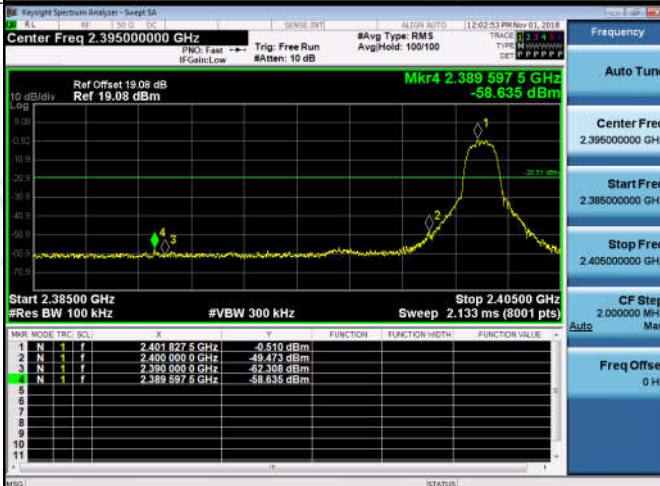
Result Table

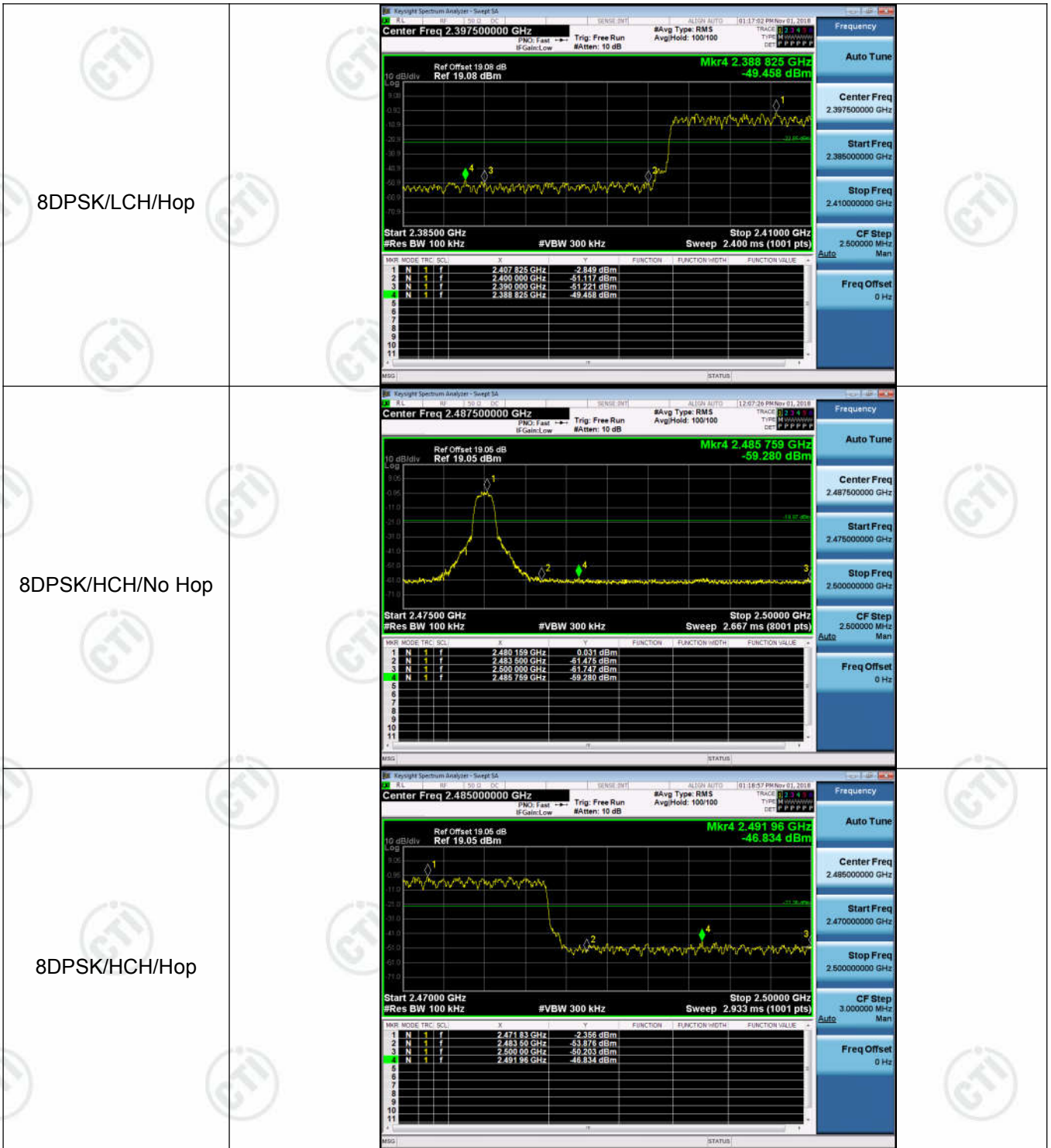
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-0.415	Off	-59.379	-20.42	PASS
			-6.604	On	-51.578	-26.6	PASS
GFSK	HCH	2480	0.200	Off	-58.345	-19.8	PASS
			-6.301	On	-50.158	-26.3	PASS
$\pi/4$ DQPSK	LCH	2402	-0.572	Off	-59.550	-20.57	PASS
			-3.035	On	-49.839	-23.04	PASS
$\pi/4$ DQPSK	HCH	2480	0.159	Off	-58.725	-19.84	PASS
			-2.692	On	-48.685	-22.69	PASS
8DPSK	LCH	2402	-0.510	Off	-58.635	-20.51	PASS
			-2.849	On	-49.458	-22.85	PASS
8DPSK	HCH	2480	0.031	Off	-59.280	-19.97	PASS
			-2.356	On	-46.834	-22.36	PASS

Test Graph



<p>GFSK/HCH/Hop</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.485000000 GHz</p> <p>Start Freq 2.470000000 GHz</p> <p>Stop Freq 2.500000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>$\pi/4$DQPSK/LCH/No Hop</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.395000000 GHz</p> <p>Start Freq 2.385000000 GHz</p> <p>Stop Freq 2.405000000 GHz</p> <p>CF Step 2.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>$\pi/4$DQPSK/LCH/Hop</p>		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.397500000 GHz</p> <p>Start Freq 2.385000000 GHz</p> <p>Stop Freq 2.410000000 GHz</p> <p>CF Step 2.500000 MHz</p> <p>Freq Offset 0 Hz</p>

<p>$\pi/4$DQPSK/HCH/No Hop</p>	 <table border="1" data-bbox="654 616 1220 761"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.479 828 GHz</td> <td>0.159 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.483 500 GHz</td> <td>-52.072 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.500 000 GHz</td> <td>-50.519 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.485 525 GHz</td> <td>-58.725 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.479 828 GHz	0.159 dBm				2	N	1	f	2.483 500 GHz	-52.072 dBm				3	N	1	f	2.500 000 GHz	-50.519 dBm				4	N	1	f	2.485 525 GHz	-58.725 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.487500000 GHz</p> <p>Start Freq 2.476000000 GHz</p> <p>Stop Freq 2.500000000 GHz</p> <p>CF Step 2.5000000 MHz</p> <p>Freq Offset 0 Hz</p>
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<p>$\pi/4$DQPSK/HCH/Hop</p>	 <table border="1" data-bbox="654 1108 1220 1254"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.479 84 GHz</td> <td>-2.692 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.483 83 GHz</td> <td>-55.576 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.500 00 GHz</td> <td>-52.549 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.483 83 GHz</td> <td>-48.685 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.479 84 GHz	-2.692 dBm				2	N	1	f	2.483 83 GHz	-55.576 dBm				3	N	1	f	2.500 00 GHz	-52.549 dBm				4	N	1	f	2.483 83 GHz	-48.685 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.486000000 GHz</p> <p>Start Freq 2.470000000 GHz</p> <p>Stop Freq 2.500000000 GHz</p> <p>CF Step 3.0000000 MHz</p> <p>Freq Offset 0 Hz</p>
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<p>8DPSK/LCH/No Hop</p>	 <table border="1" data-bbox="654 1601 1220 1747"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.401 827 5 GHz</td> <td>-0.510 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.400 000 0 GHz</td> <td>-49.472 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.390 000 0 GHz</td> <td>-52.308 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.389 597 5 GHz</td> <td>-58.635 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.401 827 5 GHz	-0.510 dBm				2	N	1	f	2.400 000 0 GHz	-49.472 dBm				3	N	1	f	2.390 000 0 GHz	-52.308 dBm				4	N	1	f	2.389 597 5 GHz	-58.635 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.396000000 GHz</p> <p>Start Freq 2.385000000 GHz</p> <p>Stop Freq 2.405000000 GHz</p> <p>CF Step 2.0000000 MHz</p> <p>Freq Offset 0 Hz</p>
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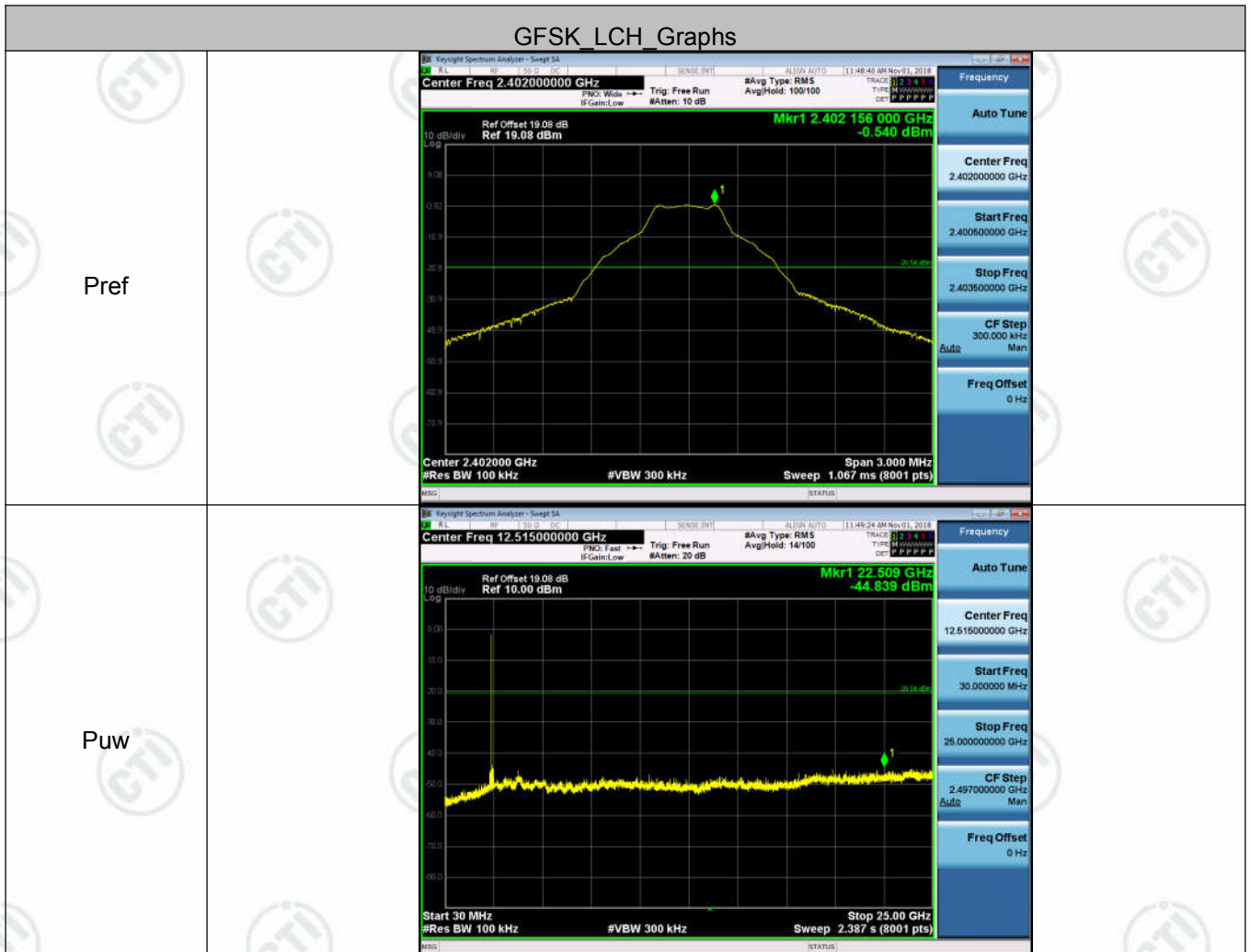


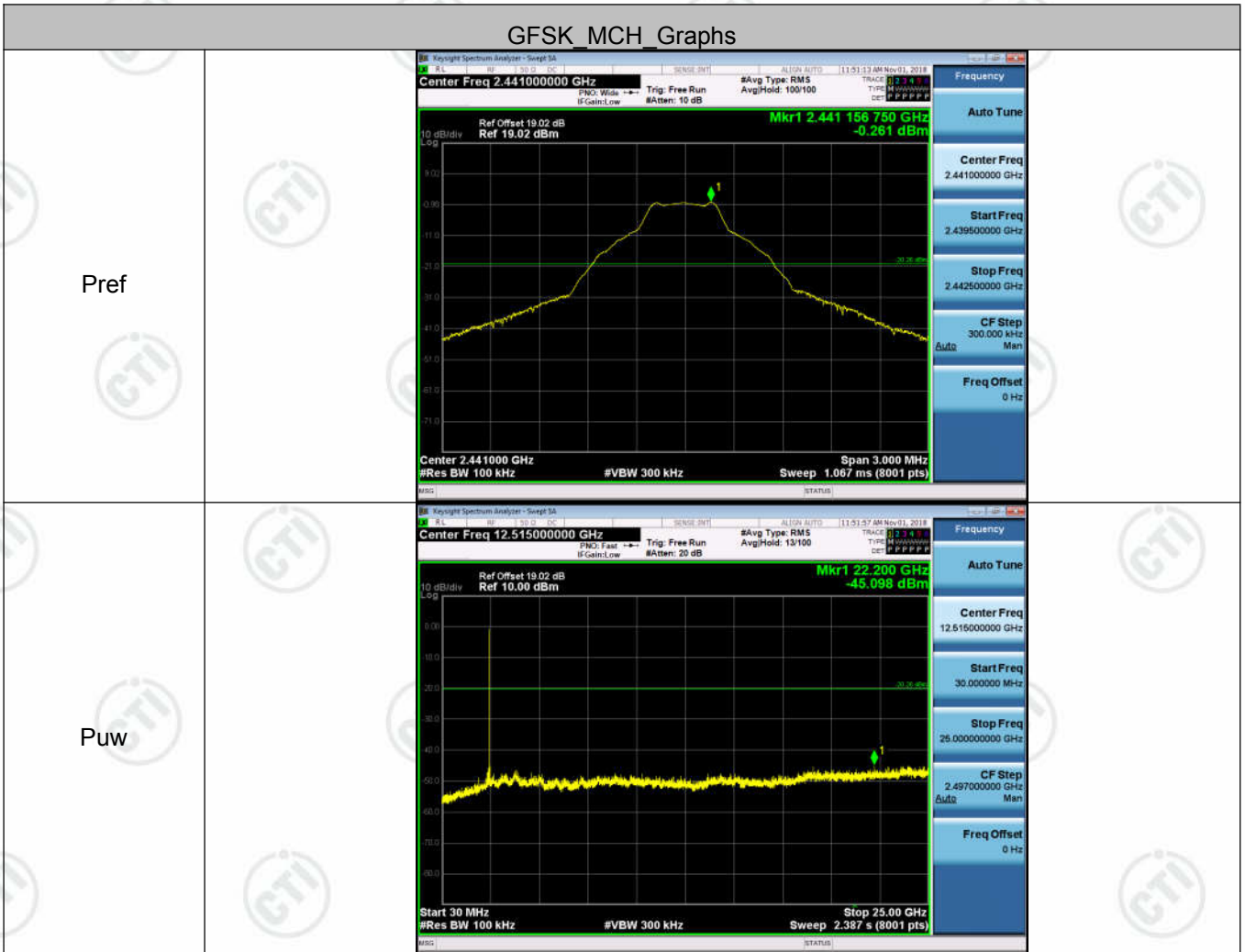
Appendix G): RF Conducted Spurious Emissions

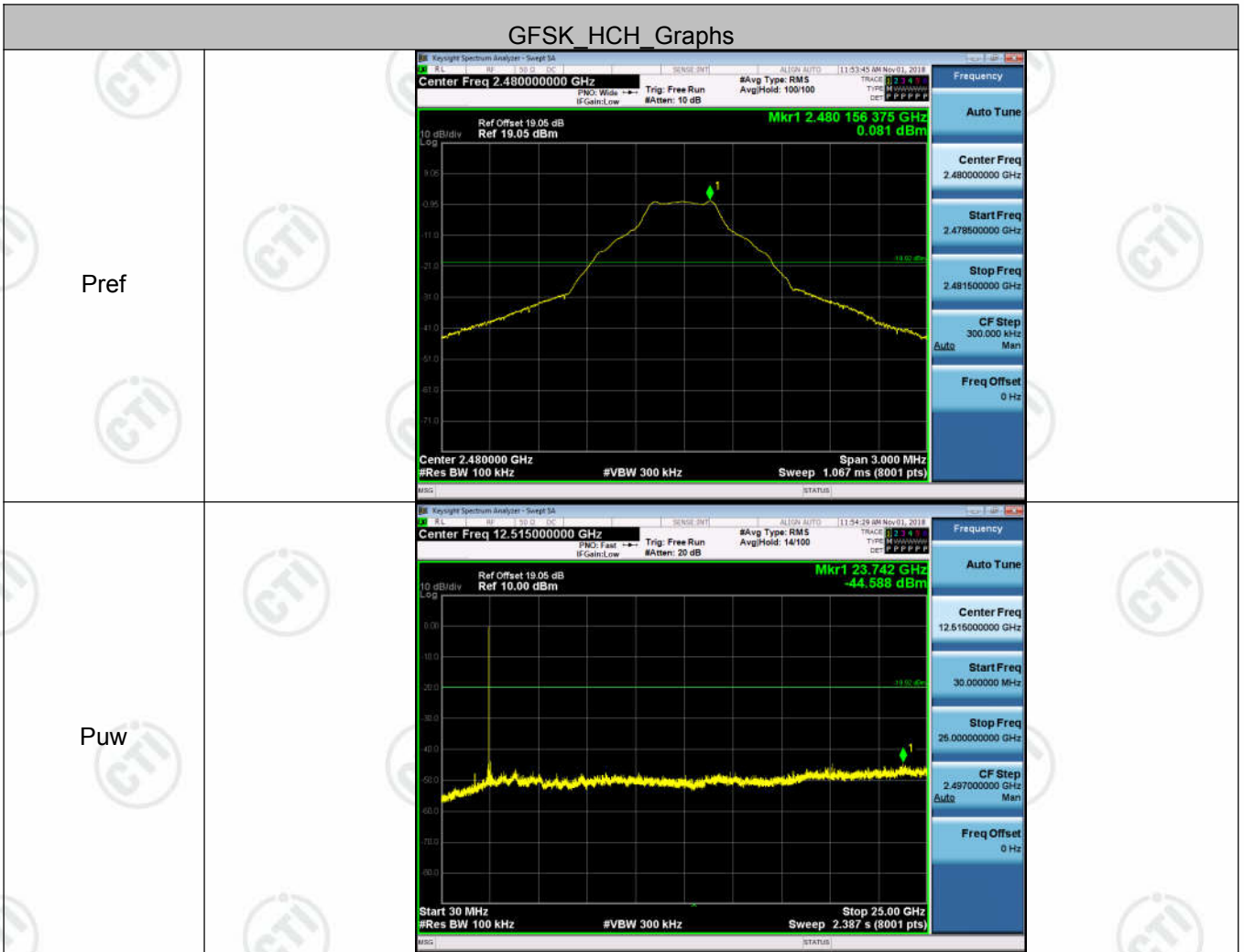
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-0.54	<Limit	PASS
GFSK	MCH	-0.261	<Limit	PASS
GFSK	HCH	0.081	<Limit	PASS
$\pi/4$ DQPSK	LCH	-0.583	<Limit	PASS
$\pi/4$ DQPSK	MCH	-0.314	<Limit	PASS
$\pi/4$ DQPSK	HCH	0.071	<Limit	PASS
8DPSK	LCH	-0.584	<Limit	PASS
8DPSK	MCH	-0.322	<Limit	PASS
8DPSK	HCH	0.027	<Limit	PASS

Test Graph

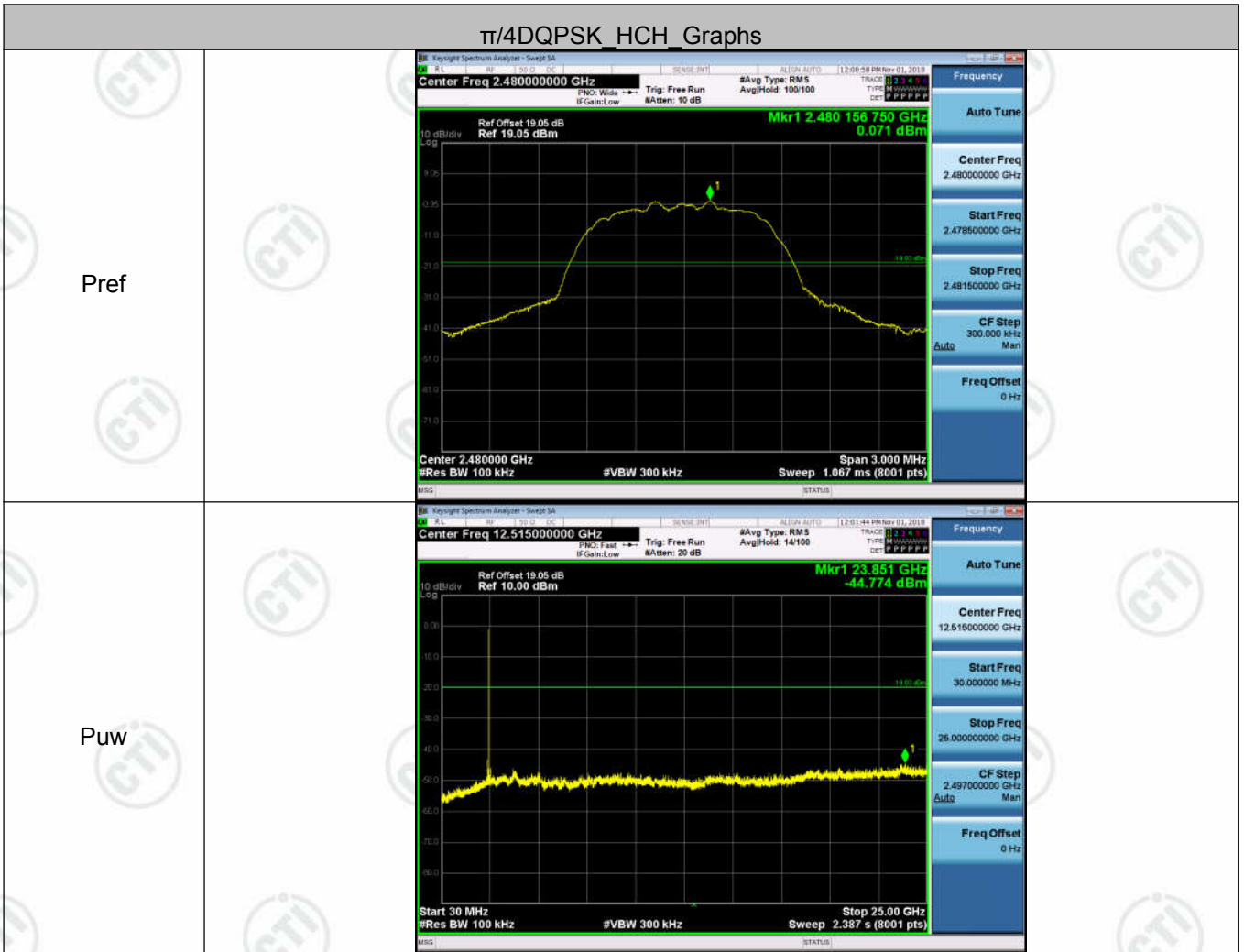


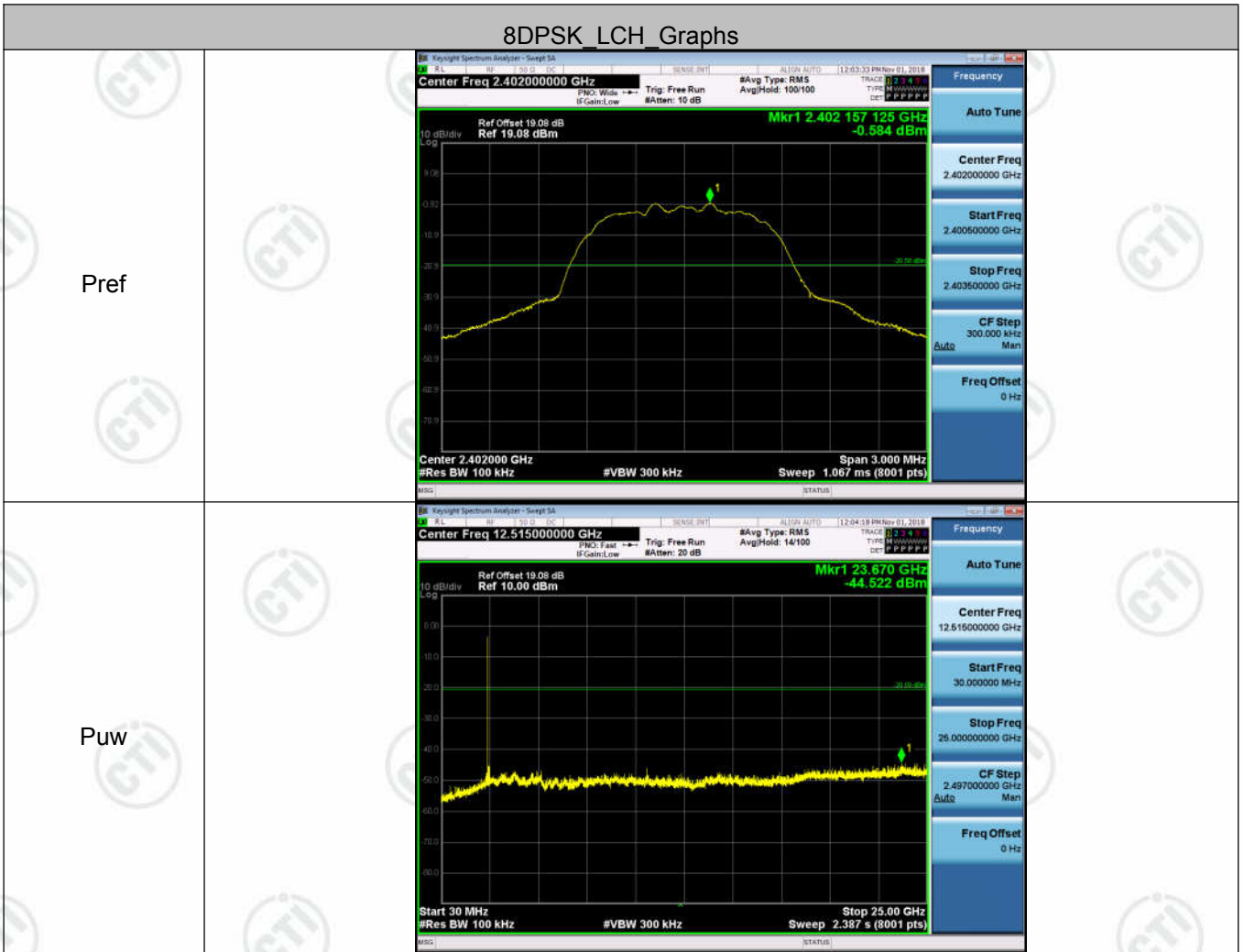


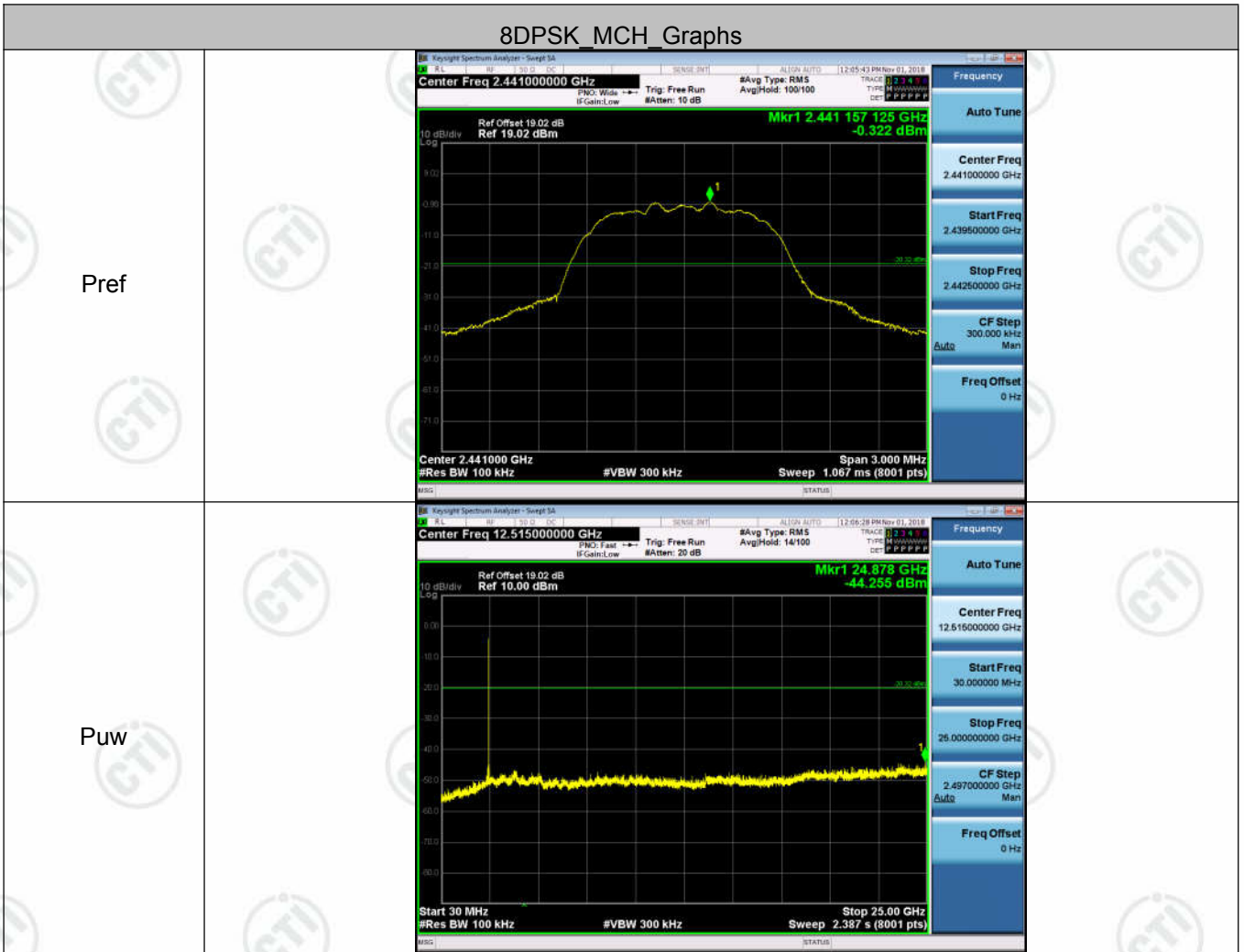






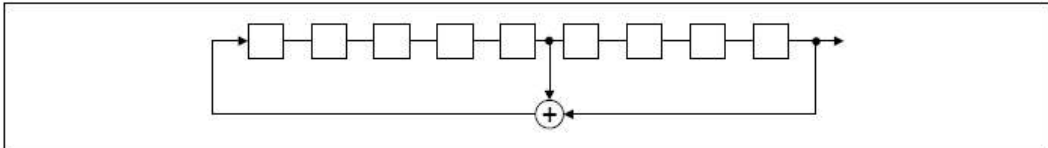
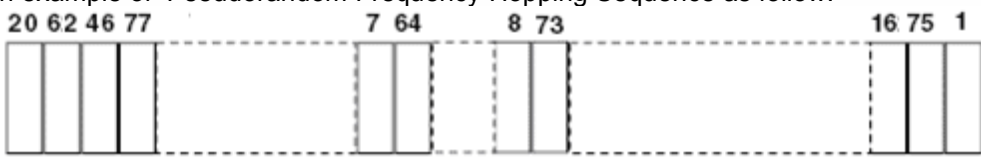








Appendix H): Pseudorandom Frequency Hopping Sequence

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1) requirement:
<p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>	
EUT Pseudorandom Frequency Hopping Sequence	
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.</p>	
<ul style="list-style-type: none"> • Number of shift register stages: 9 • Length of pseudo-random sequence: $2^9 - 1 = 511$ bits • Longest sequence of zeros: 8 (non-inverted signal) 	
	
<p><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p>	
<p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p>	
	
<p>Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>	
<p>The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.</p>	

Appendix I): Antenna Requirement

15.203 requirement:

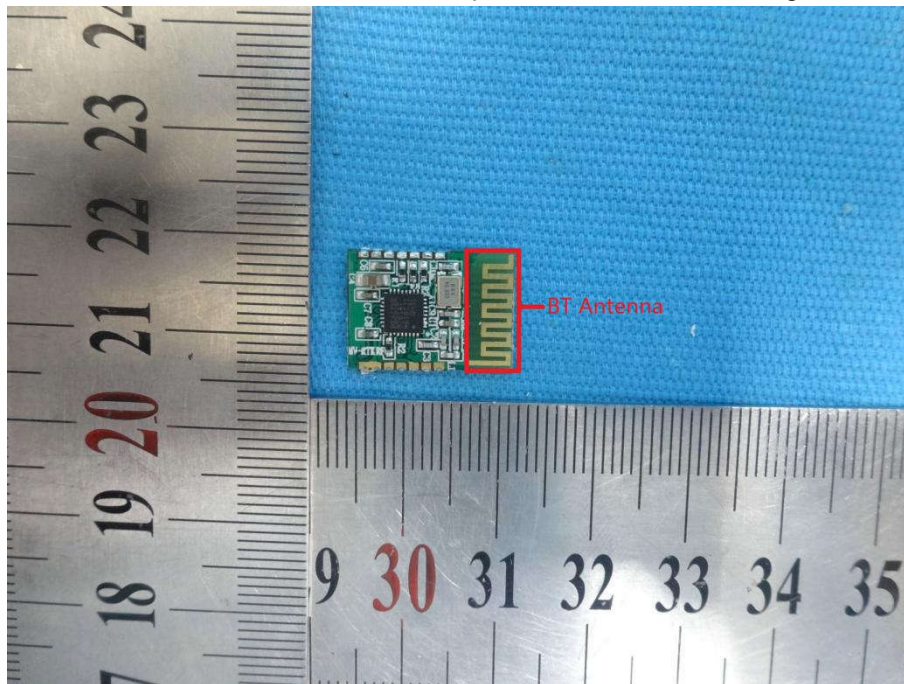
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna is 4dBi.



Appendix J): AC Power Line Conducted Emission

<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) 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 on conducted measurement. 														
<p>Limit:</p>	<table border="1" data-bbox="497 1160 1366 1379"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</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> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dB μ V)		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 (dB μ V)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

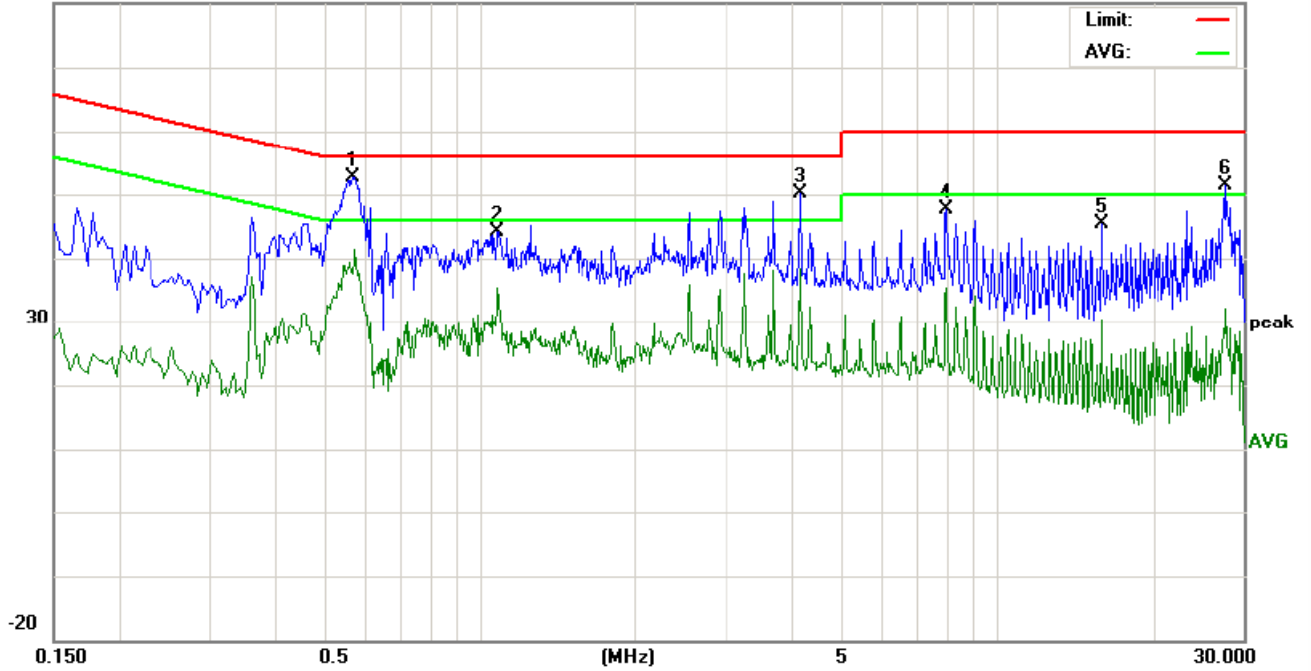
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

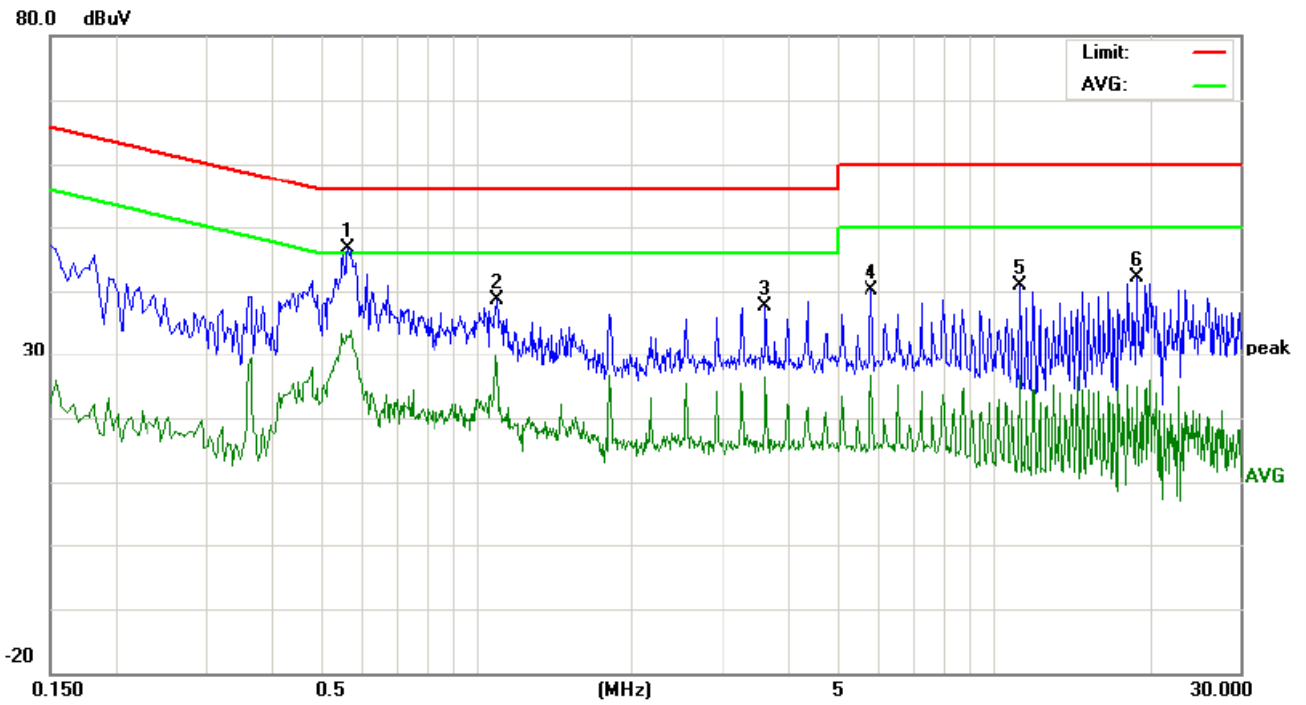
Live line:

80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5700	42.66	40.05	29.29	9.84	52.50	49.89	39.13	56.00	46.00	-6.11	-6.87	P	
2	1.0859	34.34	31.57	25.44	9.81	44.15	41.38	35.25	56.00	46.00	-14.62	-10.75	P	
3	4.1619	40.35	37.14	28.62	9.72	50.07	46.86	38.34	56.00	46.00	-9.14	-7.66	P	
4	7.9819	37.86	34.21	25.68	9.81	47.67	44.02	35.49	60.00	50.00	-15.98	-14.51	P	
5	15.9579	35.22	32.58	20.09	10.20	45.42	42.78	30.29	60.00	50.00	-17.22	-19.71	P	
6	27.7540	41.11	38.57	22.01	10.19	51.30	48.76	32.20	60.00	50.00	-11.24	-17.80	P	

Neutral line:



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5660	36.81	33.25	22.94	9.84	46.65	43.09	32.78	56.00	46.00	-12.91	-13.22	P	
2	1.0940	28.71	25.47	17.78	9.81	38.52	35.28	27.59	56.00	46.00	-20.72	-18.41	P	
3	3.6300	27.84	24.14	16.67	9.72	37.56	33.86	26.39	56.00	46.00	-22.14	-19.61	P	
4	5.8179	30.29	27.56	16.95	9.72	40.01	37.28	26.67	60.00	50.00	-22.72	-23.33	P	
5	11.2779	30.71	27.35	16.57	10.05	40.76	37.40	26.62	60.00	50.00	-22.60	-23.38	P	
6	18.8859	31.89	28.21	14.78	10.17	42.06	38.38	24.95	60.00	50.00	-21.62	-25.05	P	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

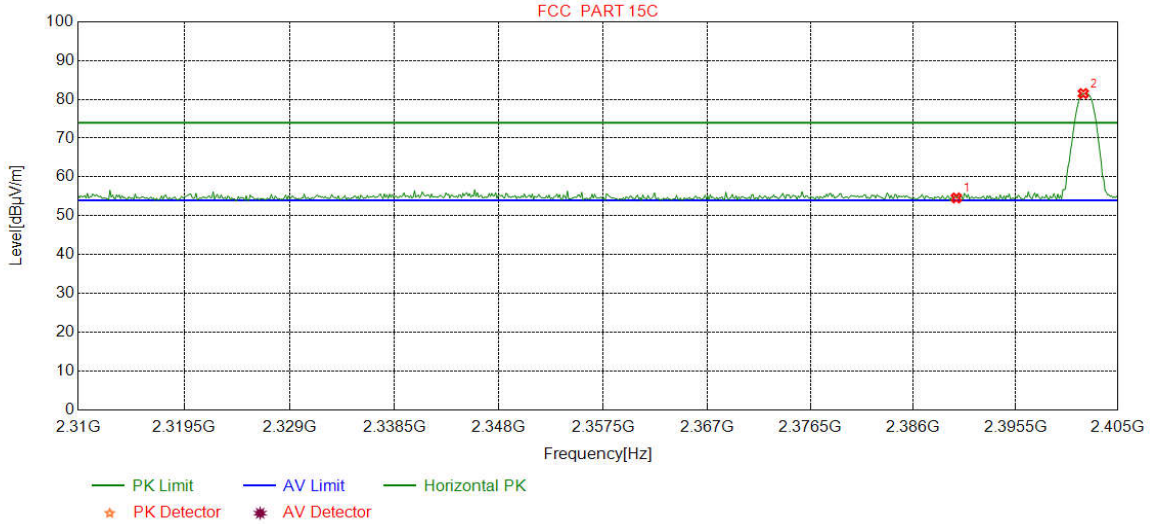
Appendix K): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter). b. Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. 				
Limit:	Frequency	Limit (dB μ V/m @3m)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test plot as follows:

Mode:	GFSK Transmitting	Channel:	2402
Remark:	PK		

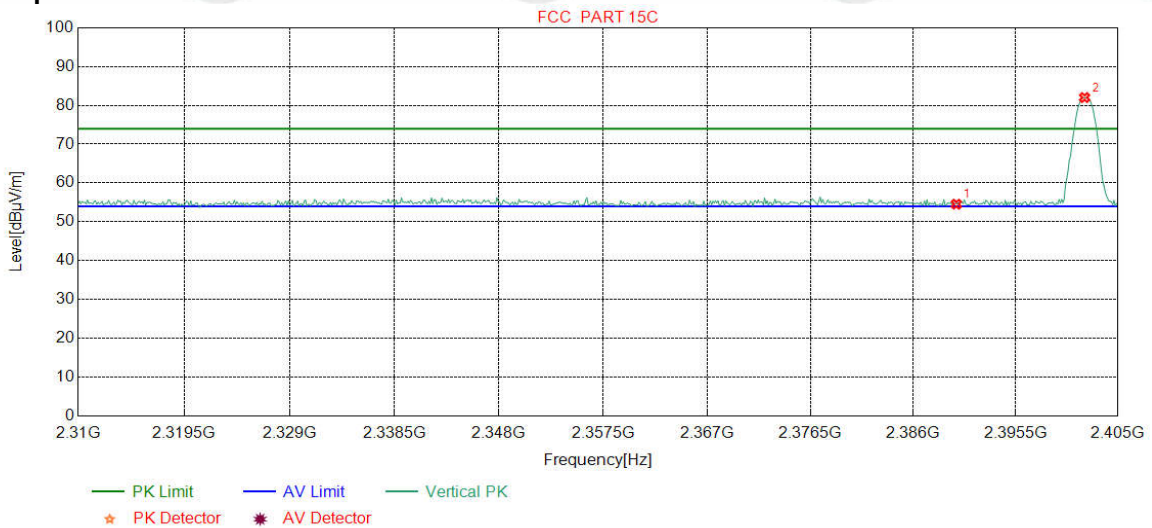
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	45.59	54.59	74.00	19.41	Pass	H	Peak
2	2401.7897	32.26	13.31	-36.60	72.55	81.52	74.00	-7.52	Pass	H	Peak

Mode:	GFSK Transmitting	Channel:	2402
Remark:	PK		

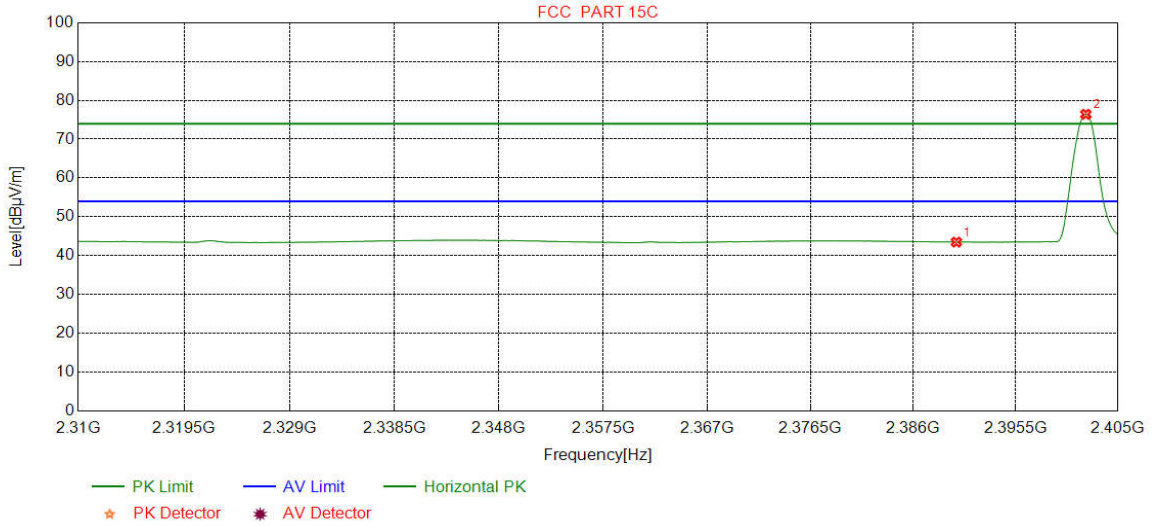
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	45.52	54.52	74.00	19.48	Pass	V	Peak
2	2401.9086	32.26	13.31	-36.60	73.05	82.02	74.00	-8.02	Pass	V	Peak

Mode:	GFSK Transmitting	Channel:	2402
Remark:	AV		

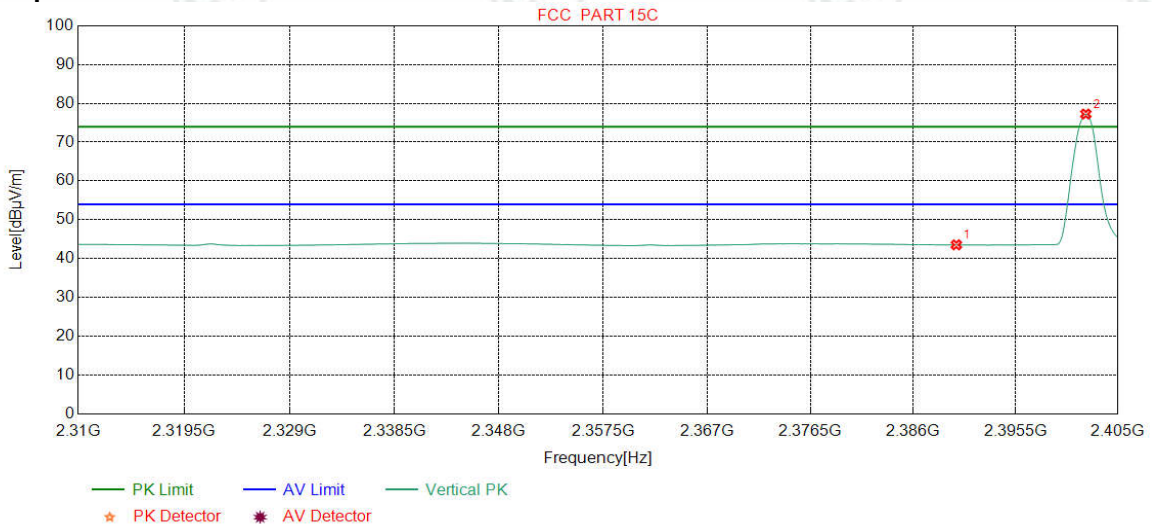
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.46	43.46	54.00	10.54	Pass	H	Average
2	2402.0275	32.26	13.31	-36.60	67.45	76.42	54.00	-22.42	Pass	H	Average

Mode:	GFSK Transmitting	Channel:	2402
Remark:	AV		

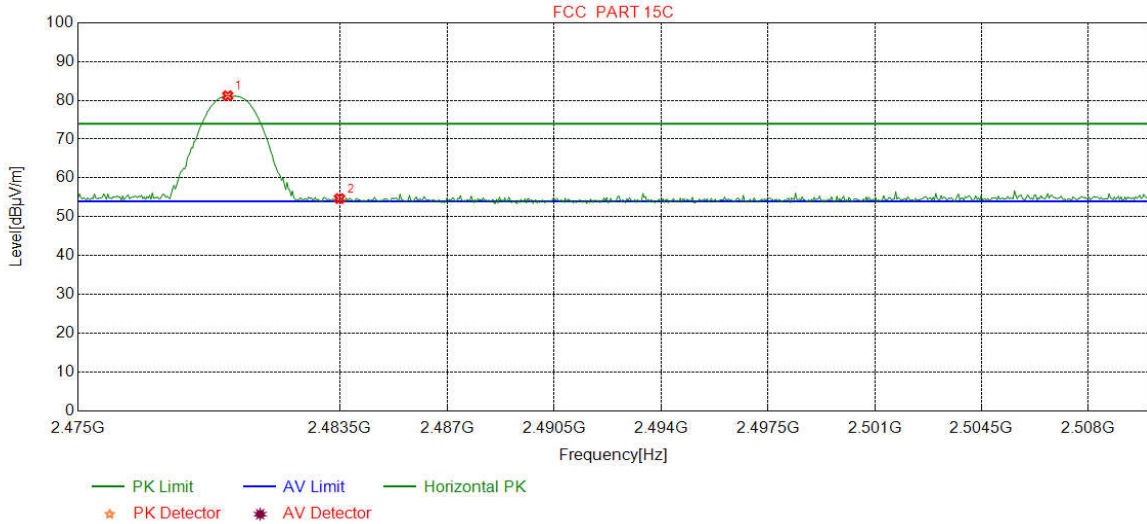
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.53	43.53	54.00	10.47	Pass	V	Average
2	2402.0275	32.26	13.31	-36.60	68.29	77.26	54.00	-23.26	Pass	V	Average

Mode:	GFSK Transmitting	Channel:	2480
Remark:	PK		

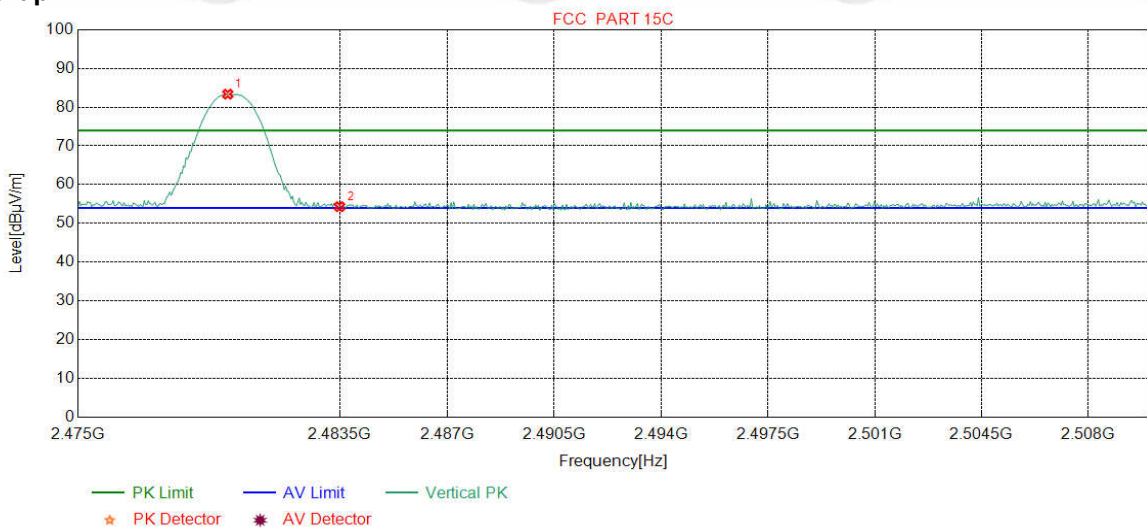
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.8623	32.37	13.39	-36.77	72.20	81.19	74.00	-7.19	Pass	H	Peak
2	2483.5000	32.38	13.38	-36.80	45.72	54.68	74.00	19.32	Pass	H	Peak

Mode:	GFSK Transmitting	Channel:	2480
Remark:	PK		

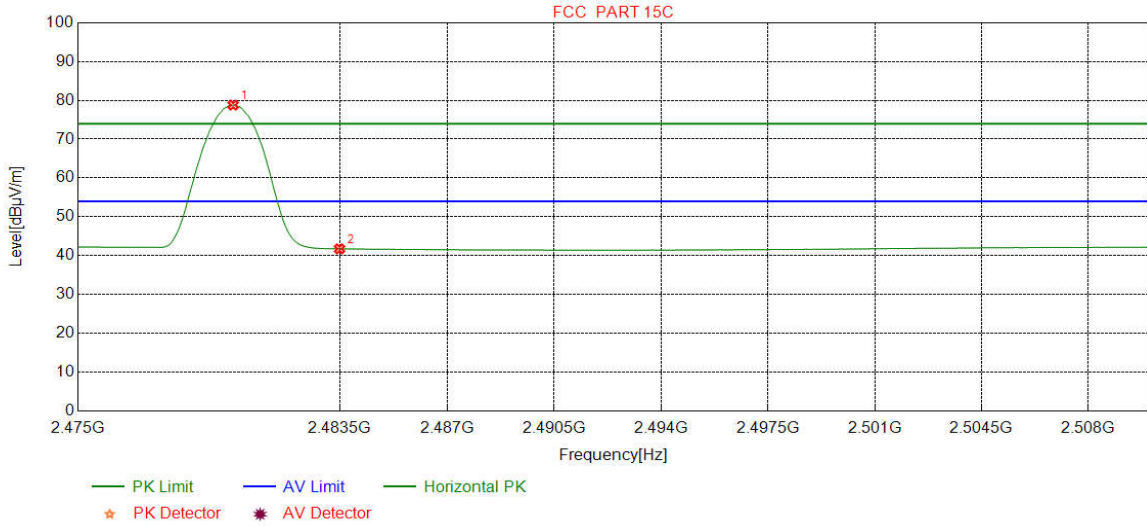
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.8623	32.37	13.39	-36.77	74.38	83.37	74.00	-9.37	Pass	V	Peak
2	2483.5000	32.38	13.38	-36.80	45.34	54.30	74.00	19.70	Pass	V	Peak

Mode:	GFSK Transmitting	Channel:	2480
Remark:	AV		

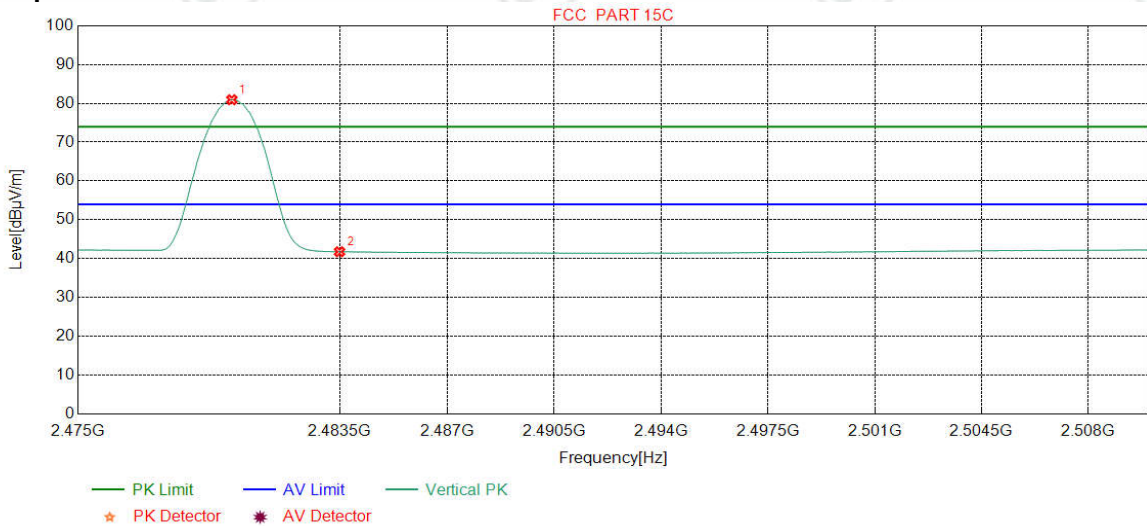
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2480.0375	32.37	13.39	-36.77	69.81	78.80	54.00	-24.80	Pass	H	Average
2	2483.5000	32.38	13.38	-36.80	32.76	41.72	54.00	12.28	Pass	H	Average

Mode:	GFSK Transmitting	Channel:	2480
Remark:	AV		

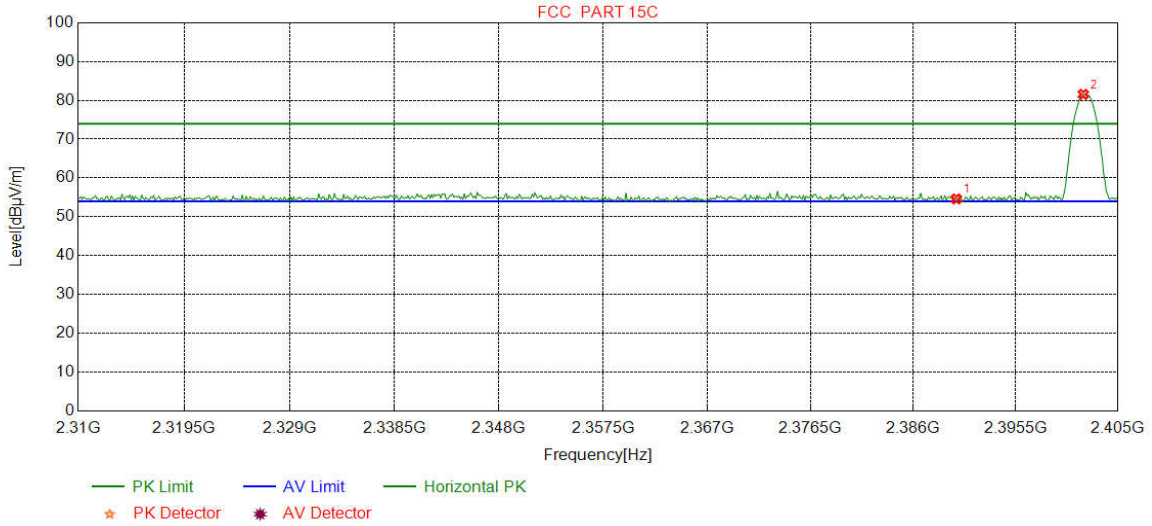
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.9937	32.37	13.39	-36.77	71.95	80.94	54.00	-26.94	Pass	V	Average
2	2483.5000	32.38	13.38	-36.80	32.79	41.75	54.00	12.25	Pass	V	Average

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2402
Remark:	PK		

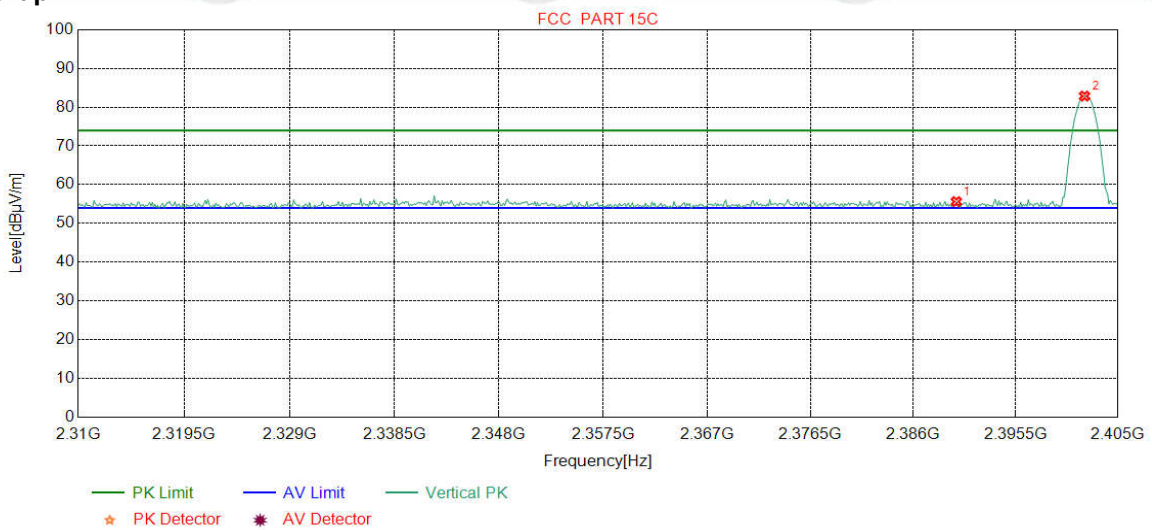
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	45.60	54.60	74.00	19.40	Pass	H	Peak
2	2401.7897	32.26	13.31	-36.60	72.59	81.56	74.00	-7.56	Pass	H	Peak

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2402
Remark:	PK		

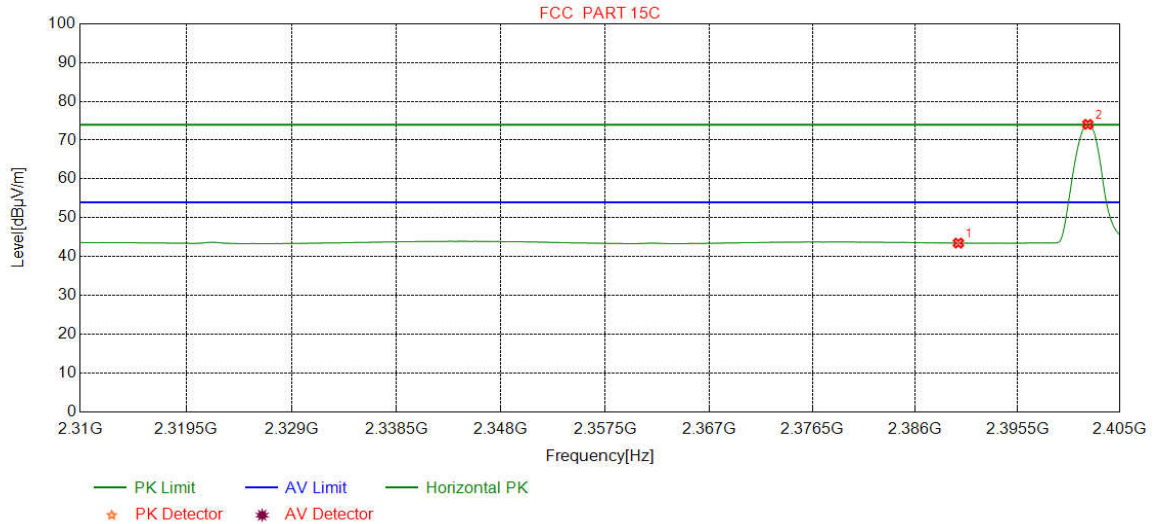
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	46.61	55.61	74.00	18.39	Pass	V	Peak
2	2401.9086	32.26	13.31	-36.60	73.90	82.87	74.00	-8.87	Pass	V	Peak

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2402
Remark:	AV		

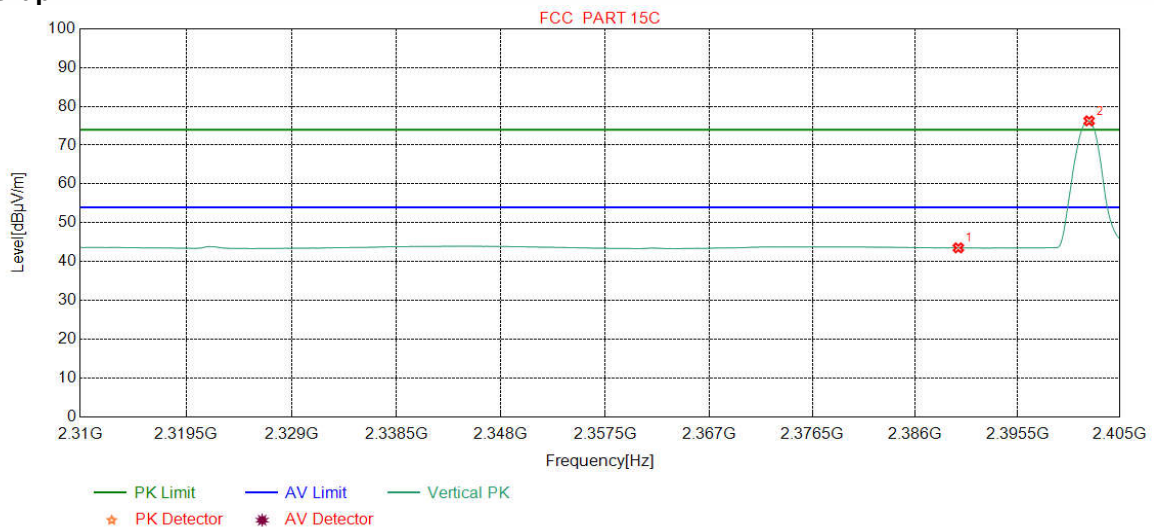
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.46	43.46	54.00	10.54	Pass	H	Average
2	2402.0275	32.26	13.31	-36.60	65.10	74.07	54.00	-20.07	Pass	H	Average

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2402
Remark:	AV		

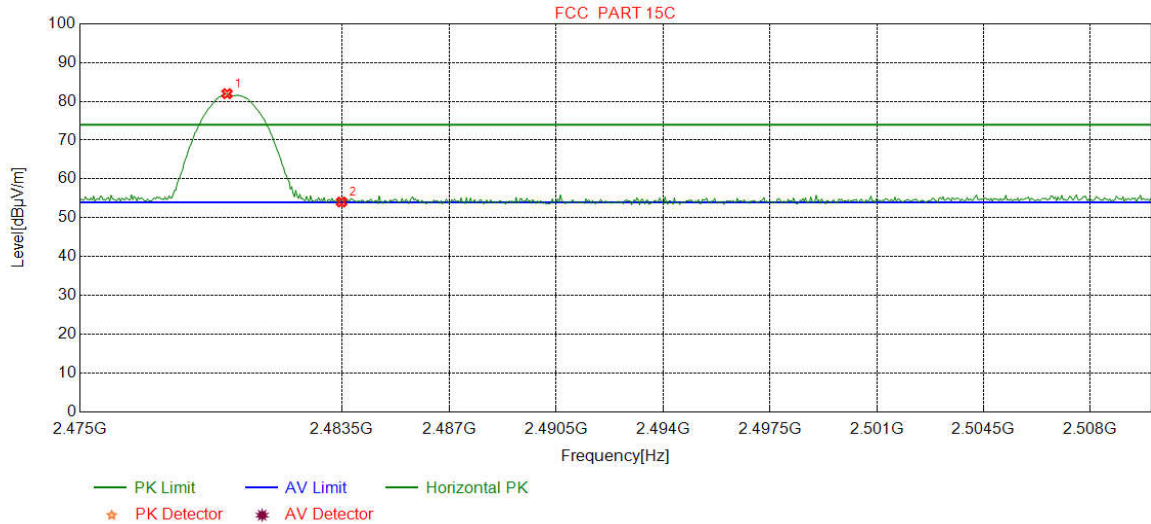
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.52	43.52	54.00	10.48	Pass	V	Average
2	2402.1464	32.26	13.31	-36.60	67.29	76.26	54.00	-22.26	Pass	V	Average

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2480
Remark:	PK		

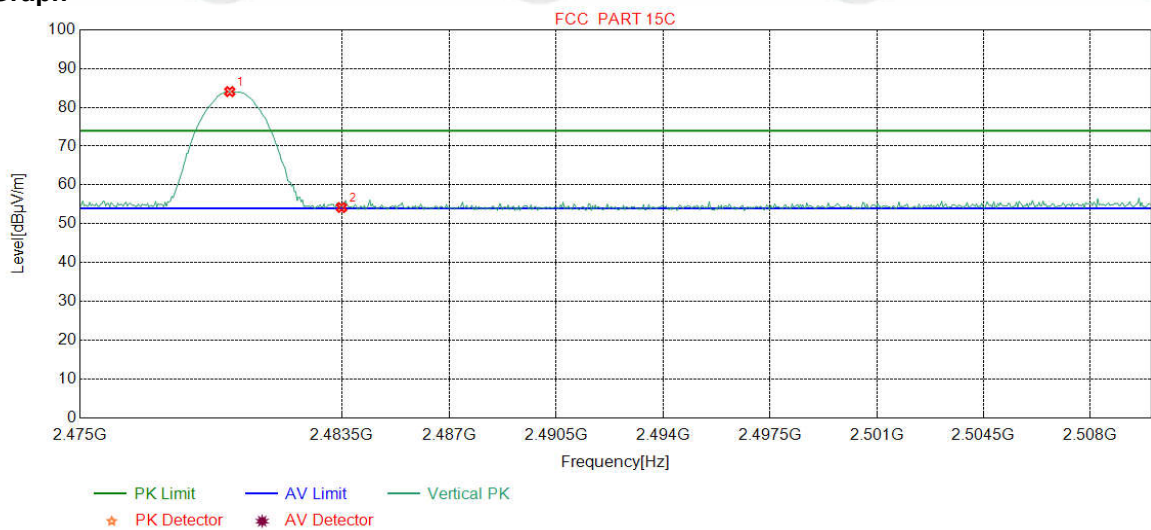
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.7747	32.37	13.39	-36.77	73.00	81.99	74.00	-7.99	Pass	H	Peak
2	2483.5000	32.38	13.38	-36.80	45.10	54.06	74.00	19.94	Pass	H	Peak

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2480
Remark:	PK		

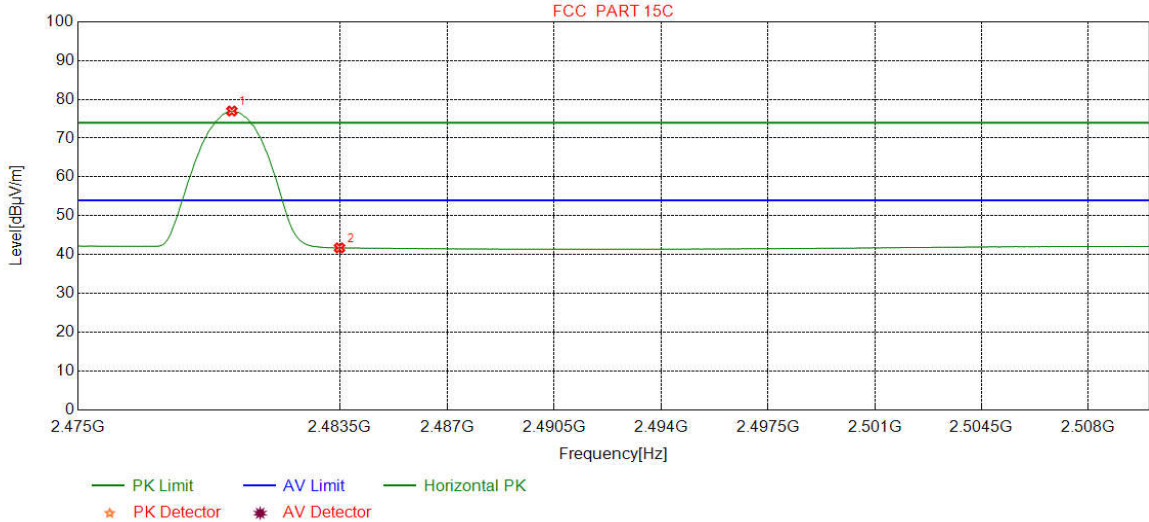
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.8623	32.37	13.39	-36.77	75.08	84.07	74.00	-10.07	Pass	V	Peak
2	2483.5000	32.38	13.38	-36.80	45.21	54.17	74.00	19.83	Pass	V	Peak

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2480
Remark:	AV		

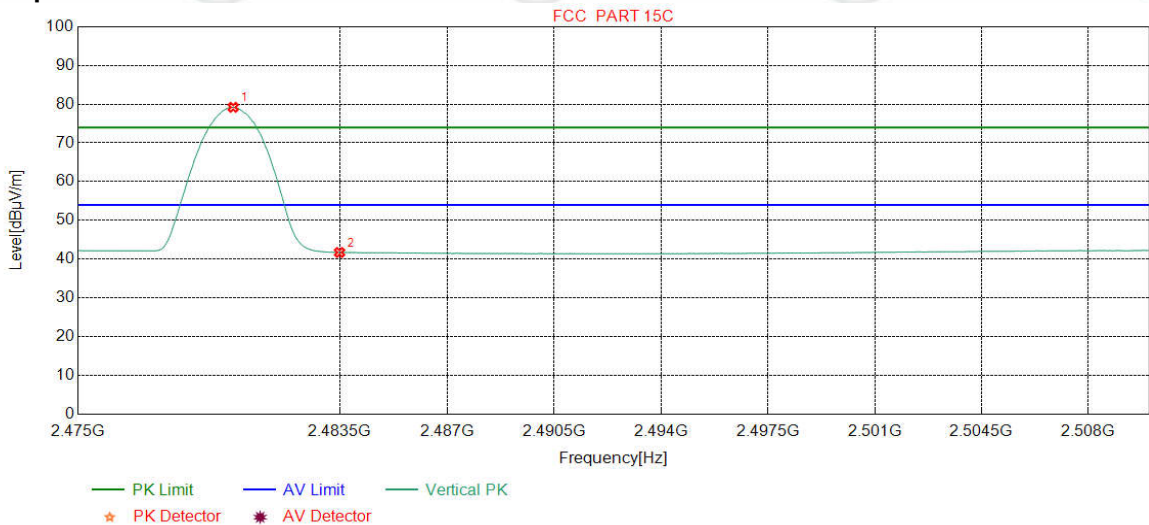
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.9937	32.37	13.39	-36.77	68.00	76.99	54.00	-22.99	Pass	H	Average
2	2483.5000	32.38	13.38	-36.80	32.76	41.72	54.00	12.28	Pass	H	Average

Mode:	$\pi/4$ DQPSK Transmitting	Channel:	2480
Remark:	AV		

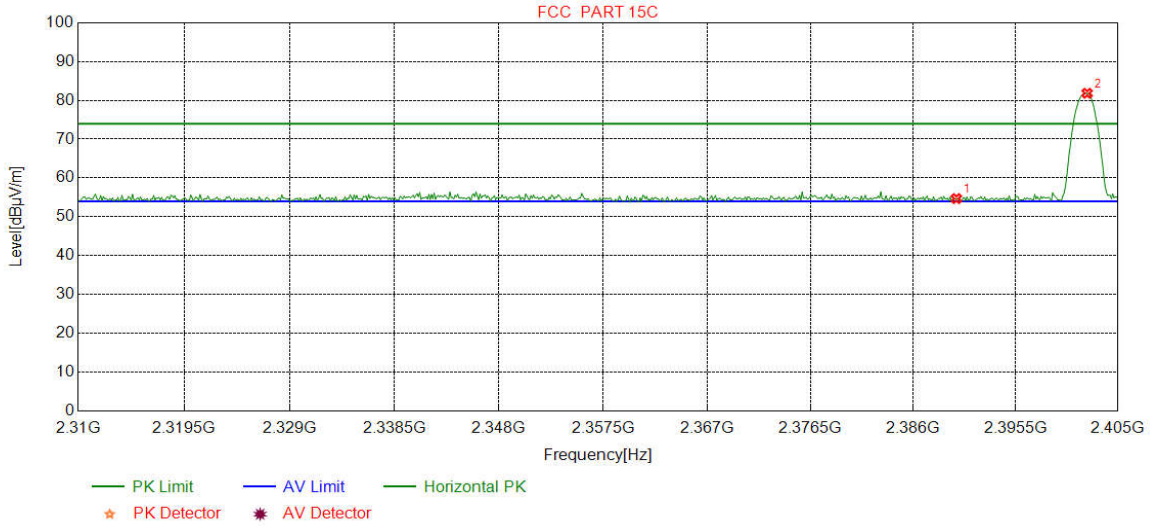
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2480.0375	32.37	13.39	-36.77	70.21	79.20	54.00	-25.20	Pass	V	Average
2	2483.5000	32.38	13.38	-36.80	32.75	41.71	54.00	12.29	Pass	V	Average

Mode:	8DPSK Transmitting	Channel:	2402
Remark:	PK		

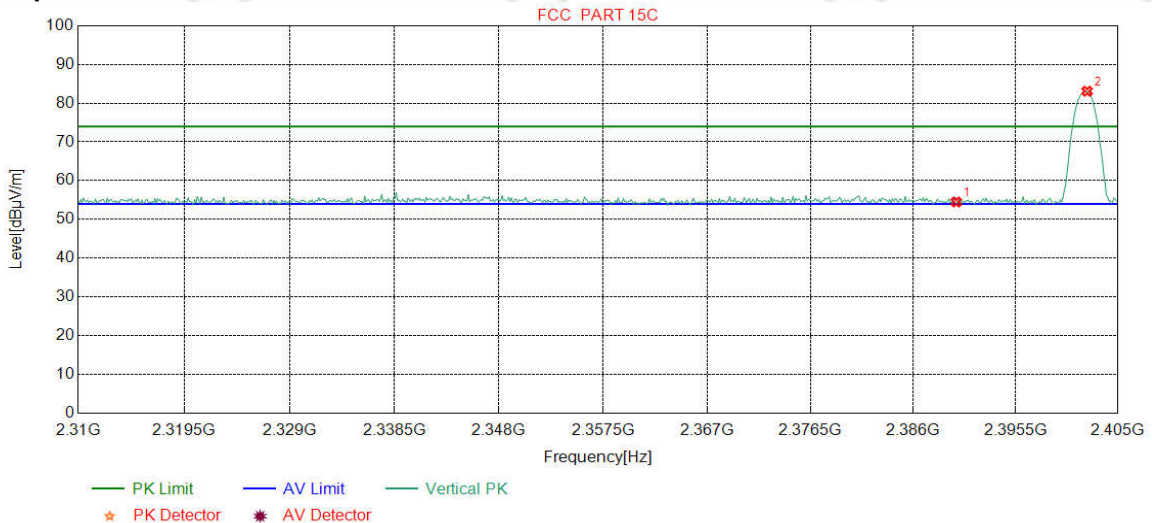
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	45.68	54.68	74.00	19.32	Pass	H	Peak
2	2402.1464	32.26	13.31	-36.60	72.87	81.84	74.00	-7.84	Pass	H	Peak

Mode:	8DPSK Transmitting	Channel:	2402
Remark:	PK		

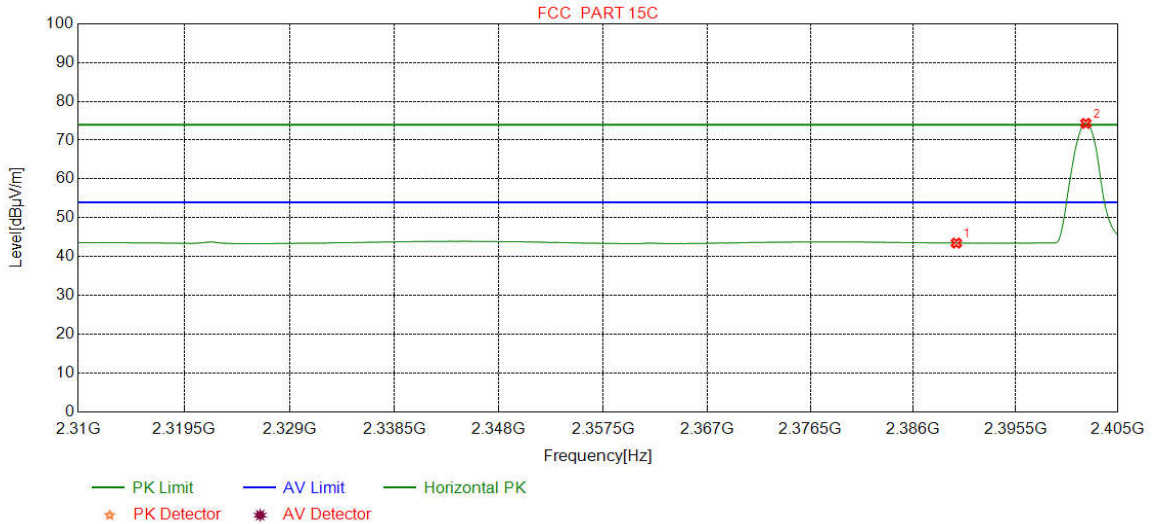
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	45.48	54.48	74.00	19.52	Pass	V	Peak
2	2402.1464	32.26	13.31	-36.60	74.13	83.10	74.00	-9.10	Pass	V	Peak

Mode:	8DPSK Transmitting	Channel:	2402
Remark:	AV		

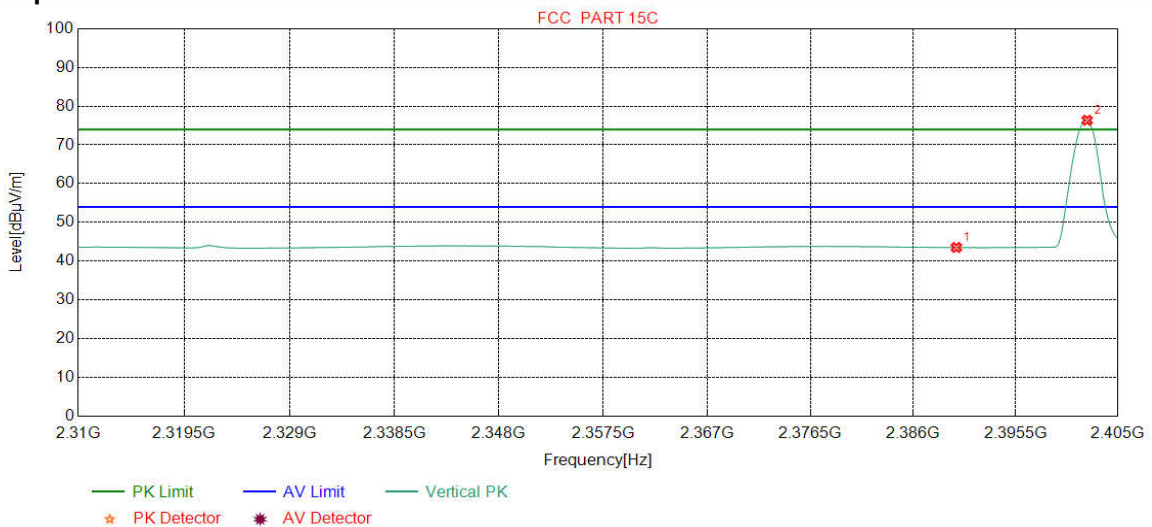
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.47	43.47	54.00	10.53	Pass	H	Average
2	2402.0275	32.26	13.31	-36.60	65.36	74.33	54.00	-20.33	Pass	H	Average

Mode:	8DPSK Transmitting	Channel:	2402
Remark:	AV		

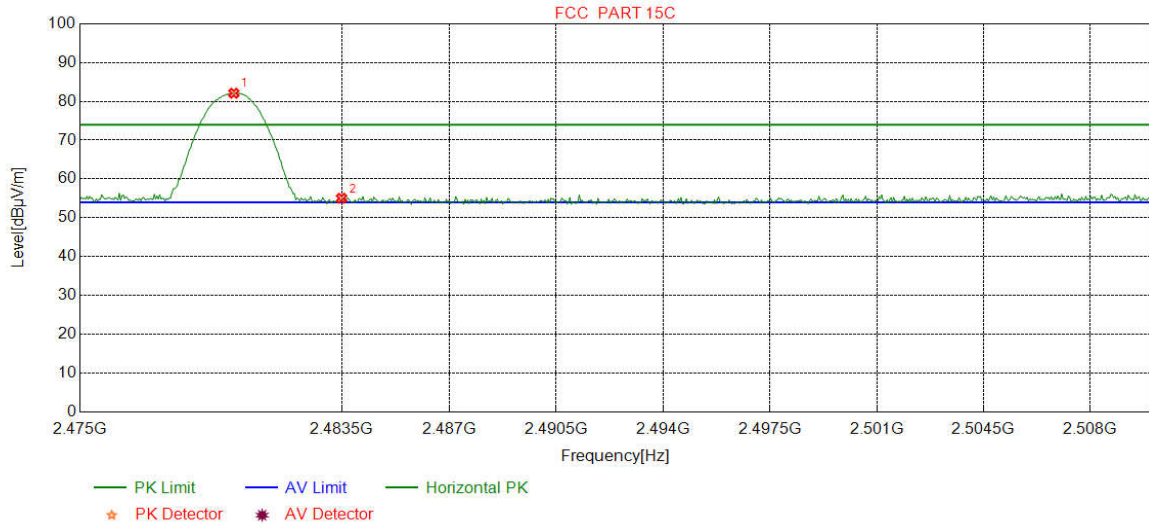
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	32.25	13.37	-36.62	34.51	43.51	54.00	10.49	Pass	V	Average
2	2402.1464	32.26	13.31	-36.60	67.39	76.36	54.00	-22.36	Pass	V	Average

Mode:	8DPSK Transmitting	Channel:	2480
Remark:	PK		

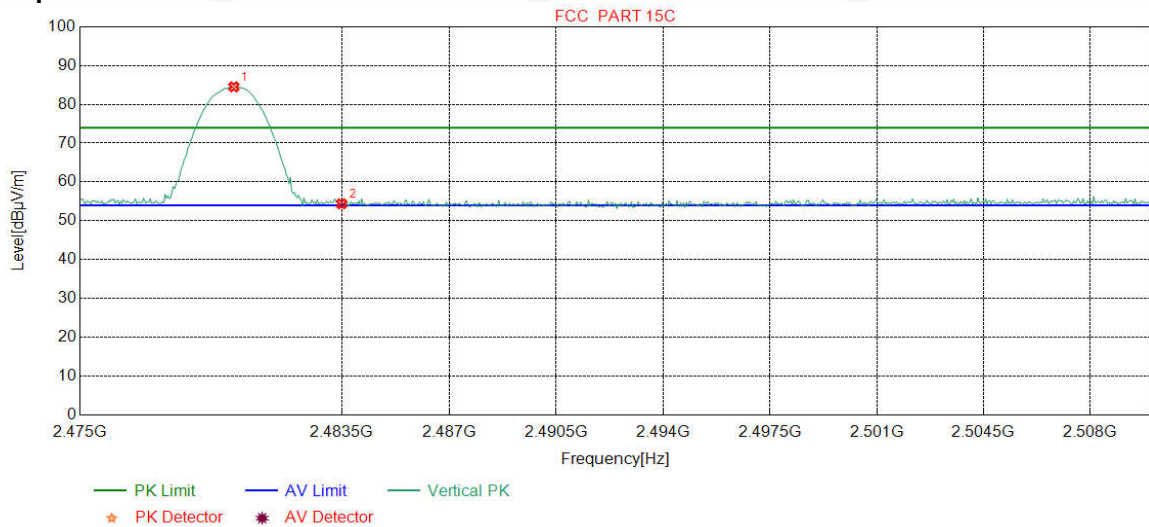
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.9937	32.37	13.39	-36.77	73.12	82.11	74.00	-8.11	Pass	H	Peak
2	2483.5000	32.38	13.38	-36.80	46.06	55.02	74.00	18.98	Pass	H	Peak

Mode:	8DPSK Transmitting	Channel:	2480
Remark:	PK		

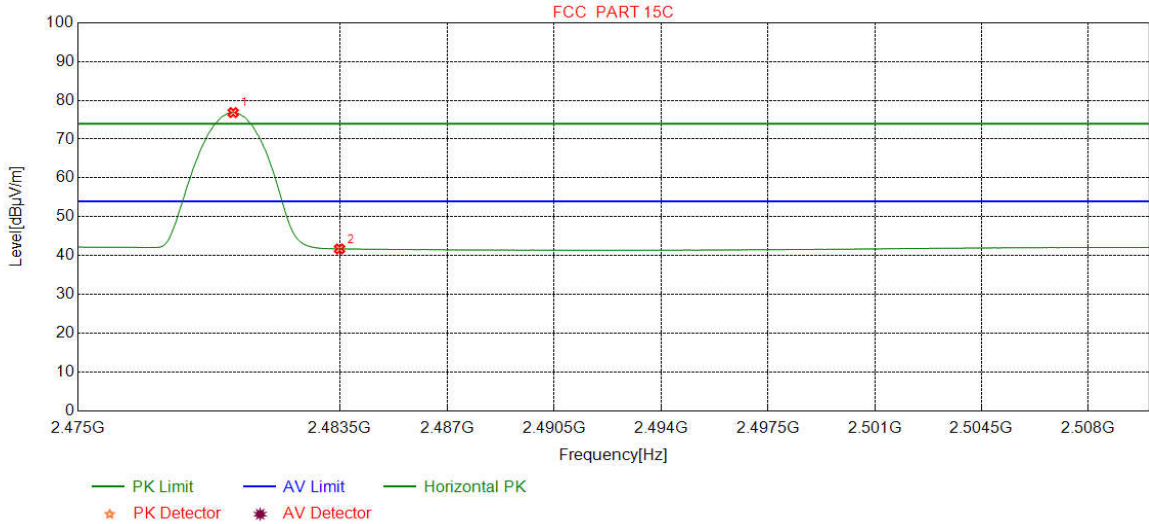
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.9937	32.37	13.39	-36.77	75.54	84.53	74.00	-10.53	Pass	V	Peak
2	2483.5000	32.38	13.38	-36.80	45.41	54.37	74.00	19.63	Pass	V	Peak

Mode:	8DPSK Transmitting	Channel:	2480
Remark:	AV		

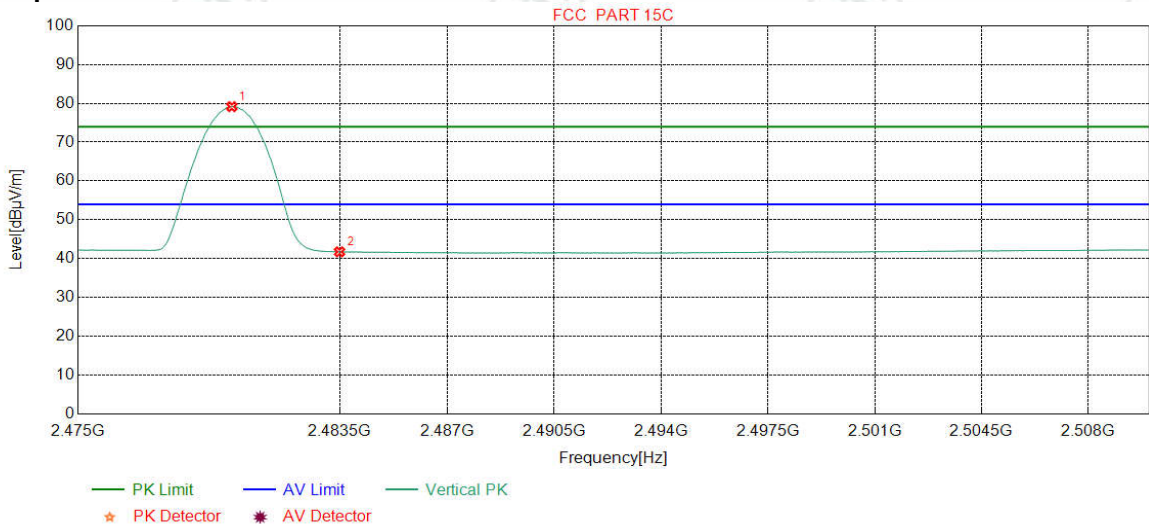
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2480.0375	32.37	13.39	-36.77	67.87	76.86	54.00	-22.86	Pass	H	Average
2	2483.5000	32.38	13.38	-36.80	32.74	41.70	54.00	12.30	Pass	H	Average

Mode:	8DPSK Transmitting	Channel:	2480
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2479.9937	32.37	13.39	-36.77	70.17	79.16	54.00	-25.16	Pass	V	Average
2	2483.5000	32.38	13.38	-36.80	32.77	41.73	54.00	12.27	Pass	V	Average

Note:

1) Through Pre-scan transmitter mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of $\pi/4$ DQPSK modulation type, the 3-DH5 of data type is the worse case of 8DPSK modulation type in charge + transmitter mode.

2) As shown in this section, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.

3) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

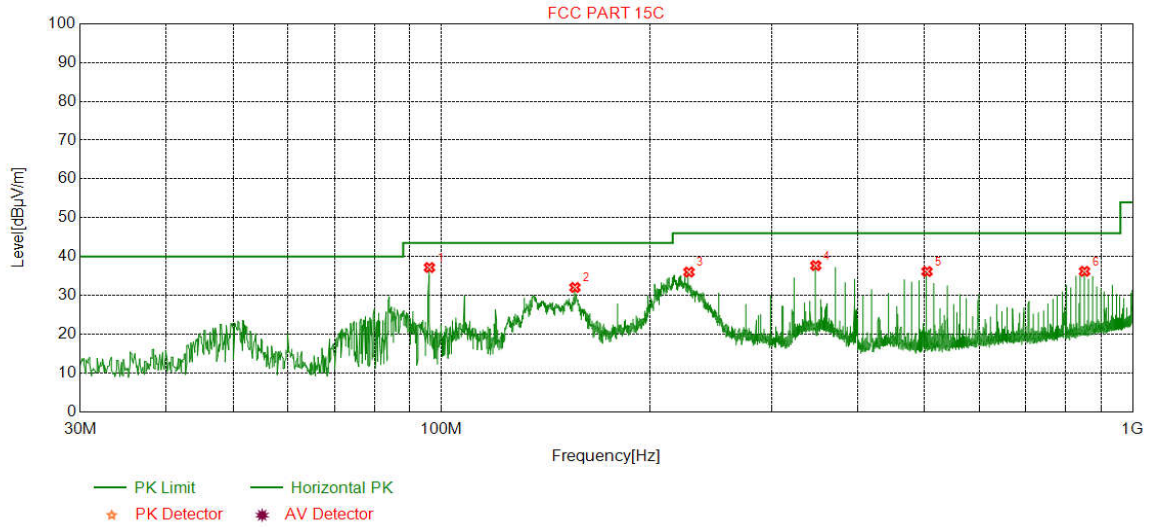
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

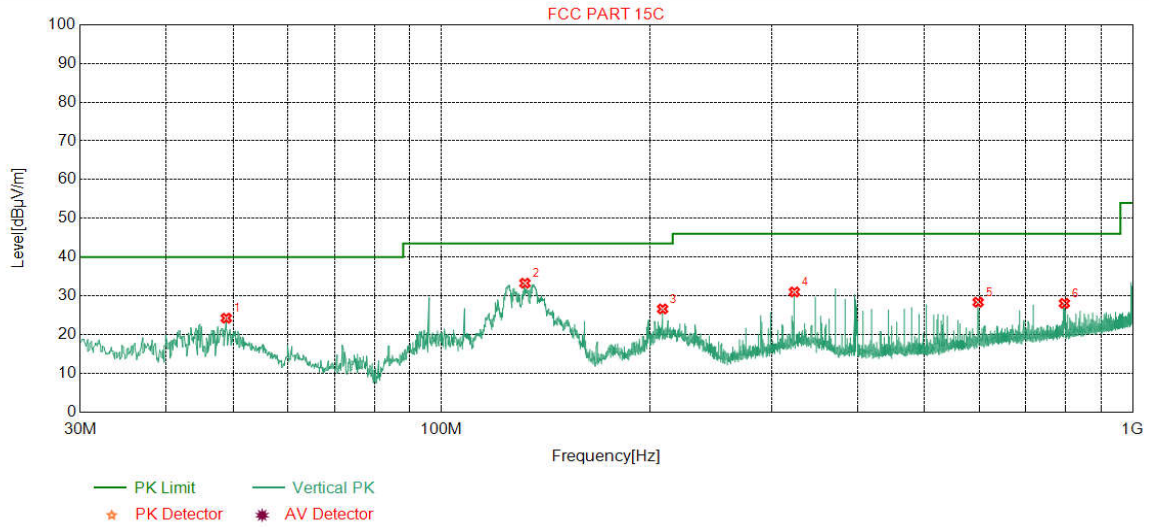
Appendix L): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Test Procedure:					
Below 1GHz test procedure as below:					
<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>					
Above 1GHz test procedure as below:					
<p>g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).</p> <p>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
<p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p>					

**Radiated Spurious Emissions test Data:
Radiated Emission below 1GHz**



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Magin [dB]	Result	Polarity
1	96.0636	10.37	1.13	-32.07	57.73	37.16	43.50	6.34	Pass	Horizontal
2	156.0156	7.76	1.46	-31.99	54.78	32.01	43.50	11.49	Pass	Horizontal
3	228.0938	11.63	1.79	-31.91	54.48	35.99	46.00	10.01	Pass	Horizontal
4	347.9978	14.26	2.22	-31.86	53.04	37.66	46.00	8.34	Pass	Horizontal
5	504.0864	17.08	2.68	-31.92	48.29	36.13	46.00	9.87	Pass	Horizontal
6	852.0602	21.52	3.51	-31.74	42.89	36.18	46.00	9.82	Pass	Horizontal



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	48.8199	13.20	0.79	-32.12	42.34	24.21	40.00	15.79	Pass	Vertical
2	132.0542	7.60	1.34	-32.01	56.32	33.25	43.50	10.25	Pass	Vertical
3	208.8859	11.13	1.71	-31.94	45.69	26.59	43.50	16.91	Pass	Vertical
4	324.0364	13.73	2.14	-31.81	46.92	30.98	46.00	15.02	Pass	Vertical
5	597.7008	18.95	2.94	-31.97	38.41	28.33	46.00	17.67	Pass	Vertical
6	796.5707	20.86	3.38	-32.01	35.81	28.04	46.00	17.96	Pass	Vertical

Transmitter Emission above 1GHz

Mode: GFSK Transmitting(1-DH5)								Channel: 2402MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1195.6391	28.10	2.66	-37.65	51.28	44.39	74.00	29.61	Pass	H	Peak
2	2632.7265	32.61	4.09	-36.65	47.80	47.85	74.00	26.15	Pass	H	Peak
3	4804.0000	34.50	4.55	-36.15	42.40	45.30	74.00	28.70	Pass	H	Peak
4	5331.4581	34.83	4.82	-35.94	45.35	49.06	74.00	24.94	Pass	H	Peak
5	7206.0000	36.31	5.81	-36.43	42.35	48.04	74.00	25.96	Pass	H	Peak
6	9608.0000	37.64	6.63	-36.79	43.50	50.98	74.00	23.02	Pass	H	Peak
7	1196.4393	28.10	2.66	-37.65	53.11	46.22	74.00	27.78	Pass	V	Peak
8	2961.9924	33.14	4.44	-36.79	47.37	48.16	74.00	25.84	Pass	V	Peak
9	4804.0000	34.50	4.55	-36.15	41.80	44.70	74.00	29.30	Pass	V	Peak
10	6074.4824	35.81	5.23	-36.28	43.75	48.51	74.00	25.49	Pass	V	Peak
11	7206.0000	36.31	5.81	-36.43	42.29	47.98	74.00	26.02	Pass	V	Peak
12	9608.0000	37.64	6.63	-36.79	43.36	50.84	74.00	23.16	Pass	V	Peak

Mode: GFSK Transmitting(1-DH5)								Channel: 2441MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1394.8790	28.29	2.89	-37.20	49.87	43.85	74.00	30.15	Pass	H	Peak
2	2987.1974	33.18	4.51	-36.73	47.04	48.00	74.00	26.00	Pass	H	Peak
3	4804.0000	34.50	4.55	-36.15	41.48	44.38	74.00	29.62	Pass	H	Peak
4	6025.7276	35.81	5.27	-36.28	43.86	48.66	74.00	25.34	Pass	H	Peak
5	7206.0000	36.31	5.81	-36.43	41.88	47.57	74.00	26.43	Pass	H	Peak
6	9608.0000	37.64	6.63	-36.79	43.33	50.81	74.00	23.19	Pass	H	Peak
7	1195.6391	28.10	2.66	-37.65	52.53	45.64	74.00	28.36	Pass	V	Peak
8	2015.4031	31.72	3.50	-36.75	47.58	46.05	74.00	27.95	Pass	V	Peak
9	3417.3417	33.37	4.51	-36.61	46.18	47.45	74.00	26.55	Pass	V	Peak
10	4804.0000	34.50	4.55	-36.15	40.72	43.62	74.00	30.38	Pass	V	Peak
11	7206.0000	36.31	5.81	-36.43	41.04	46.73	74.00	27.27	Pass	V	Peak
12	9608.0000	37.64	6.63	-36.79	43.43	50.91	74.00	23.09	Pass	V	Peak

Mode: GFSK Transmitting(1-DH5)								Channel: 2480MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1190.8382	28.09	2.67	-37.67	48.02	41.11	74.00	32.89	Pass	H	Peak
2	1814.5629	30.48	3.34	-36.86	46.71	43.67	74.00	30.33	Pass	H	Peak
3	3873.6874	33.70	4.35	-36.15	43.62	45.52	74.00	28.48	Pass	H	Peak
4	4960.0000	34.50	4.82	-36.20	41.71	44.83	74.00	29.17	Pass	H	Peak
5	7440.0000	36.54	5.85	-36.34	40.70	46.75	74.00	27.25	Pass	H	Peak
6	9920.0000	37.77	6.79	-36.82	42.91	50.65	74.00	23.35	Pass	H	Peak
7	1996.5993	31.68	3.47	-36.74	48.29	46.70	74.00	27.30	Pass	V	Peak
8	3291.5542	33.32	4.56	-36.80	45.44	46.52	74.00	27.48	Pass	V	Peak
9	4960.0000	34.50	4.82	-36.20	41.66	44.78	74.00	29.22	Pass	V	Peak
10	5889.2139	35.62	5.06	-36.18	43.16	47.66	74.00	26.34	Pass	V	Peak
11	7440.0000	36.54	5.85	-36.34	42.12	48.17	74.00	25.83	Pass	V	Peak
12	9920.0000	37.77	6.79	-36.82	42.99	50.73	74.00	23.27	Pass	V	Peak

Mode: π /4DQPSK Transmitting(2-DH5)								Channel: 2402MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1428.8858	28.33	2.93	-37.16	48.49	42.59	74.00	31.41	Pass	H	Peak
2	2704.3409	32.73	4.12	-36.72	47.93	48.06	74.00	25.94	Pass	H	Peak
3	4804.0000	34.50	4.55	-36.15	41.80	44.70	74.00	29.30	Pass	H	Peak
4	5550.8551	35.08	5.16	-36.04	43.18	47.38	74.00	26.62	Pass	H	Peak
5	7206.0000	36.31	5.81	-36.43	40.68	46.37	74.00	27.63	Pass	H	Peak
6	9608.0000	37.64	6.63	-36.79	43.18	50.66	74.00	23.34	Pass	H	Peak
7	1198.8398	28.10	2.66	-37.64	51.50	44.62	74.00	29.38	Pass	V	Peak
8	2991.5983	33.19	4.52	-36.73	46.34	47.32	74.00	26.68	Pass	V	Peak
9	4804.0000	34.50	4.55	-36.15	41.52	44.42	74.00	29.58	Pass	V	Peak
10	5945.7696	35.71	5.30	-36.16	44.20	49.05	74.00	24.95	Pass	V	Peak
11	7206.0000	36.31	5.81	-36.43	42.12	47.81	74.00	26.19	Pass	V	Peak
12	9608.0000	37.64	6.63	-36.79	43.39	50.87	74.00	23.13	Pass	V	Peak

Mode: $\pi/4$ DQPSK Transmitting(2-DH5)								Channel: 2441MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1976.1952	31.54	3.45	-36.79	48.32	46.52	74.00	27.48	Pass	H	Peak
2	3174.5425	33.27	4.61	-36.83	46.55	47.60	74.00	26.40	Pass	H	Peak
3	4882.0000	34.50	4.81	-36.10	42.03	45.24	74.00	28.76	Pass	H	Peak
4	5979.8980	35.77	5.33	-36.25	43.91	48.76	74.00	25.24	Pass	H	Peak
5	7323.0000	36.42	5.85	-36.41	42.78	48.64	74.00	25.36	Pass	H	Peak
6	9764.0000	37.71	6.71	-36.83	43.13	50.72	74.00	23.28	Pass	H	Peak
7	1596.5193	29.04	3.07	-37.00	50.42	45.53	74.00	28.47	Pass	V	Peak
8	3004.8755	33.20	4.92	-36.72	47.14	48.54	74.00	25.46	Pass	V	Peak
9	4882.0000	34.50	4.81	-36.10	41.82	45.03	74.00	28.97	Pass	V	Peak
10	5945.7696	35.71	5.30	-36.16	43.95	48.80	74.00	25.20	Pass	V	Peak
11	7323.0000	36.42	5.85	-36.41	42.29	48.15	74.00	25.85	Pass	V	Peak
12	9764.0000	37.71	6.71	-36.83	42.79	50.38	74.00	23.62	Pass	V	Peak

Mode: $\pi/4$ DQPSK Transmitting(2-DH5)								Channel: 2480MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1852.5705	30.73	3.38	-36.94	48.55	45.72	74.00	28.28	Pass	H	Peak
2	2987.5975	33.18	4.51	-36.73	47.10	48.06	74.00	25.94	Pass	H	Peak
3	4960.0000	34.50	4.82	-36.20	43.05	46.17	74.00	27.83	Pass	H	Peak
4	6120.3120	35.82	5.26	-36.28	43.90	48.70	74.00	25.30	Pass	H	Peak
5	7440.0000	36.54	5.85	-36.34	42.54	48.59	74.00	25.41	Pass	H	Peak
6	9920.0000	37.77	6.79	-36.82	43.12	50.86	74.00	23.14	Pass	H	Peak
7	1397.2795	28.30	2.90	-37.21	52.65	46.64	74.00	27.36	Pass	V	Peak
8	3762.5263	33.61	4.36	-36.21	43.60	45.36	74.00	28.64	Pass	V	Peak
9	4960.0000	34.50	4.82	-36.20	41.25	44.37	74.00	29.63	Pass	V	Peak
10	6892.5893	36.06	5.82	-36.30	44.29	49.87	74.00	24.13	Pass	V	Peak
11	7440.0000	36.54	5.85	-36.34	42.07	48.12	74.00	25.88	Pass	V	Peak
12	9920.0000	37.77	6.79	-36.82	42.98	50.72	74.00	23.28	Pass	V	Peak

Mode: 8DPSK Transmitting(3-DH5)								Channel: 2402MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1397.6795	28.30	2.90	-37.21	49.62	43.61	74.00	30.39	Pass	H	Peak
2	3195.9946	33.28	4.64	-36.71	46.23	47.44	74.00	26.56	Pass	H	Peak
3	4804.0000	34.50	4.55	-36.15	42.42	45.32	74.00	28.68	Pass	H	Peak
4	6040.3540	35.81	5.24	-36.26	44.00	48.79	74.00	25.21	Pass	H	Peak
5	7206.0000	36.31	5.81	-36.43	42.41	48.10	74.00	25.90	Pass	H	Peak
6	9608.0000	37.64	6.63	-36.79	42.47	49.95	74.00	24.05	Pass	H	Peak
7	1393.2787	28.29	2.89	-37.21	53.97	47.94	74.00	26.06	Pass	V	Peak
8	3198.9199	33.28	4.65	-36.70	47.08	48.31	74.00	25.69	Pass	V	Peak
9	4804.0000	34.50	4.55	-36.15	43.24	46.14	74.00	27.86	Pass	V	Peak
10	5973.0723	35.76	5.33	-36.23	43.51	48.37	74.00	25.63	Pass	V	Peak
11	7206.0000	36.31	5.81	-36.43	41.36	47.05	74.00	26.95	Pass	V	Peak
12	9608.0000	37.64	6.63	-36.79	43.35	50.83	74.00	23.17	Pass	V	Peak

Mode: 8DPSK Transmitting(3-DH5)								Channel: 2441MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1853.7708	30.73	3.38	-36.93	47.03	44.21	74.00	29.79	Pass	H	Peak
2	3564.5815	33.45	4.41	-36.48	44.93	46.31	74.00	27.69	Pass	H	Peak
3	4882.0000	34.50	4.81	-36.10	41.76	44.97	74.00	29.03	Pass	H	Peak
4	5985.7486	35.78	5.33	-36.27	43.07	47.91	74.00	26.09	Pass	H	Peak
5	7323.0000	36.42	5.85	-36.41	41.93	47.79	74.00	26.21	Pass	H	Peak
6	9764.0000	37.71	6.71	-36.83	43.06	50.65	74.00	23.35	Pass	H	Peak
7	1195.6391	28.10	2.66	-37.65	53.09	46.20	74.00	27.80	Pass	V	Peak
8	3198.9199	33.28	4.65	-36.70	46.67	47.90	74.00	26.10	Pass	V	Peak
9	4882.0000	34.50	4.81	-36.10	41.78	44.99	74.00	29.01	Pass	V	Peak
10	5916.5167	35.67	5.15	-36.22	44.52	49.12	74.00	24.88	Pass	V	Peak
11	7323.0000	36.42	5.85	-36.41	42.30	48.16	74.00	25.84	Pass	V	Peak
12	9764.0000	37.71	6.71	-36.83	42.79	50.38	74.00	23.62	Pass	V	Peak

Mode: 8DPSK Transmitting (3-DH5)								Channel:2480MHz			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1395.2791	28.30	2.89	-37.21	50.10	44.08	74.00	29.92	Pass	H	Peak
2	3202.8203	33.28	4.64	-36.70	45.74	46.96	74.00	27.04	Pass	H	Peak
3	4960.0000	34.50	4.82	-36.20	41.65	44.77	74.00	29.23	Pass	H	Peak
4	6324.1074	35.86	5.46	-36.18	43.38	48.52	74.00	25.48	Pass	H	Peak
5	7440.0000	36.54	5.85	-36.34	40.94	46.99	74.00	27.01	Pass	H	Peak
6	9920.0000	37.77	6.79	-36.82	43.01	50.75	74.00	23.25	Pass	H	Peak
7	1194.8390	28.09	2.66	-37.65	53.76	46.86	74.00	27.14	Pass	V	Peak
8	3011.7012	33.20	4.91	-36.75	47.01	48.37	74.00	25.63	Pass	V	Peak
9	4960.0000	34.50	4.82	-36.20	43.88	47.00	74.00	27.00	Pass	V	Peak
10	6245.1245	35.85	5.34	-36.30	44.49	49.38	74.00	24.62	Pass	V	Peak
11	7440.0000	36.54	5.85	-36.34	42.63	48.68	74.00	25.32	Pass	V	Peak
12	9920.0000	37.77	6.79	-36.82	43.12	50.86	74.00	23.14	Pass	V	Peak

Note:

1) Through Pre-scan transmitter mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of $\pi/4$ DQPSK modulation type, the 3-DH5 of data type is the worse case of 8DPSK modulation type in transmitter mode.

2) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.

3) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

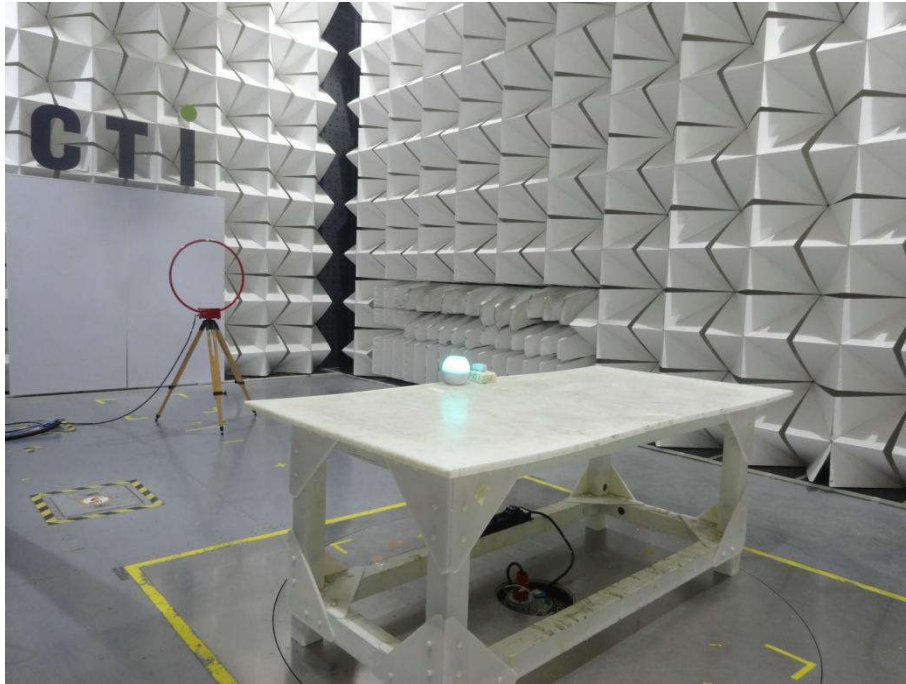
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

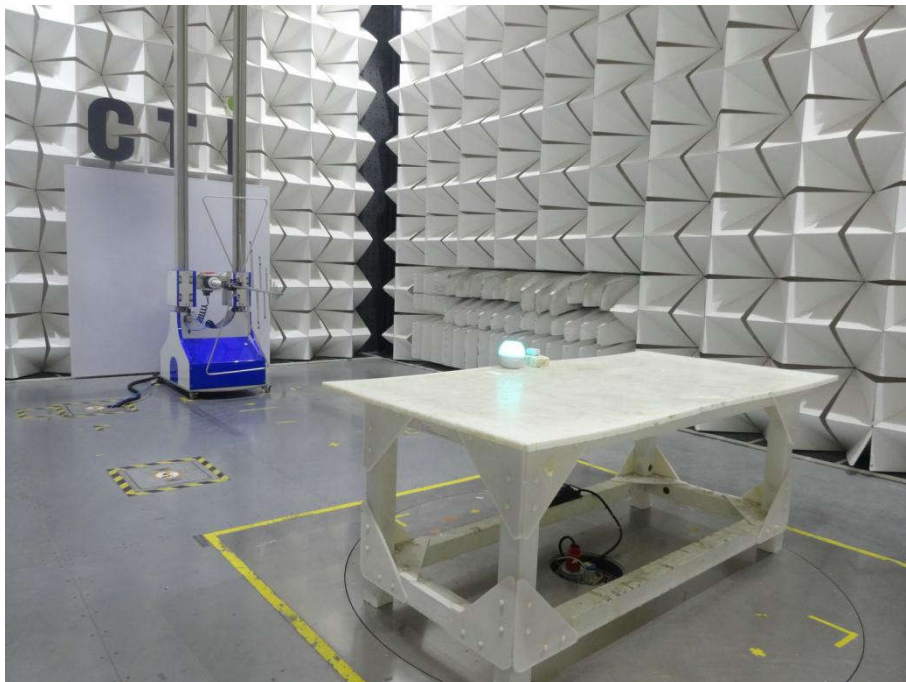
4) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

PHOTOGRAPHS OF TEST SETUP

Test model No.: TEW201



Radiated spurious emission Test Setup-1(Below 30MHz)



Radiated spurious emission Test Setup-2(30MHz-1GHz)



Radiated spurious emission Test Setup-3(Above 1GHz)



Conducted Emissions Test Setup

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32K00287201 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.