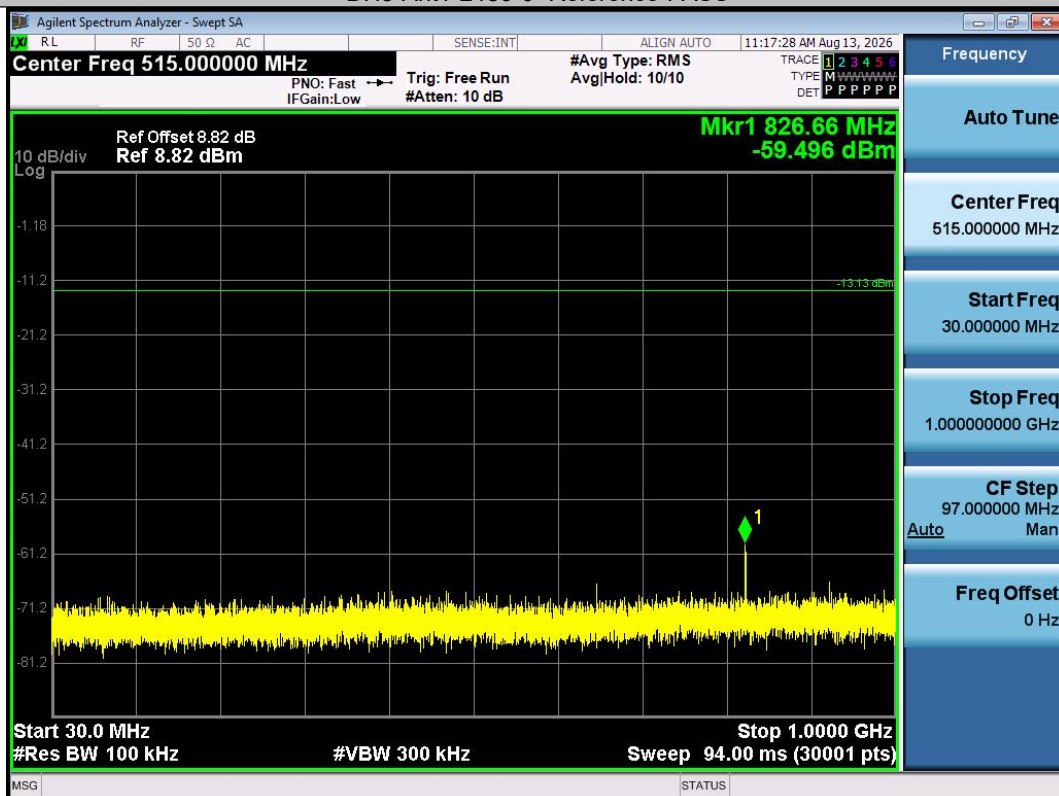
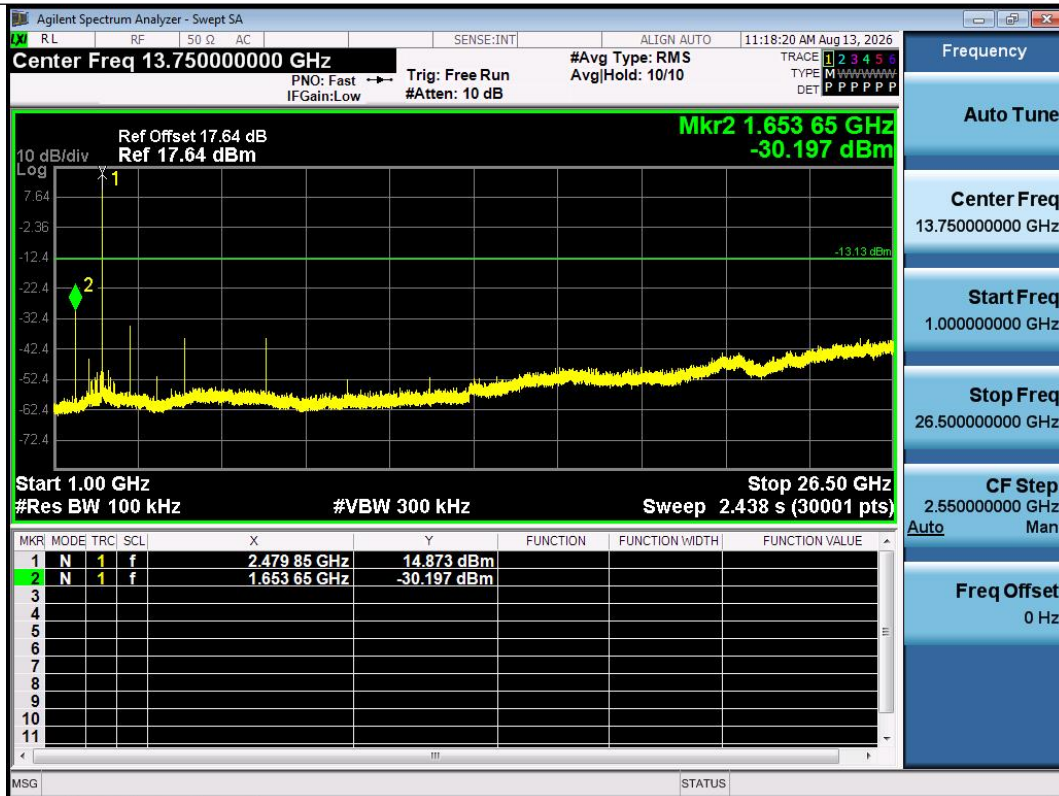




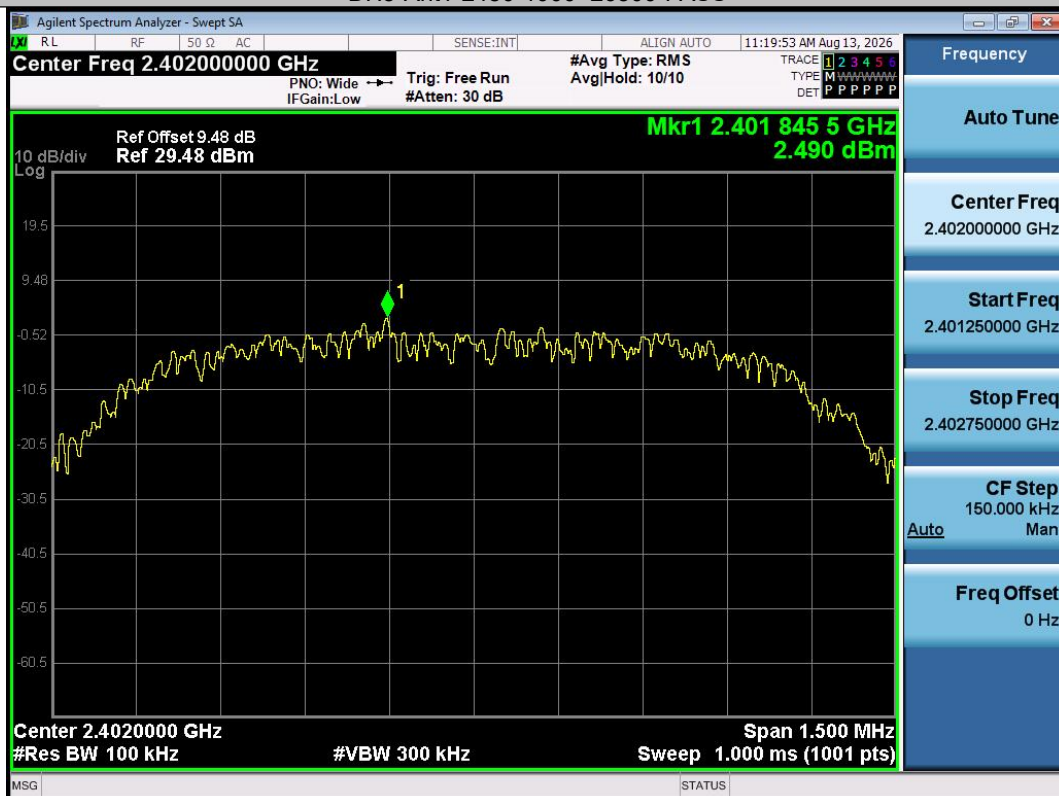
DH5-Ant1-2480-0~Reference-PASS



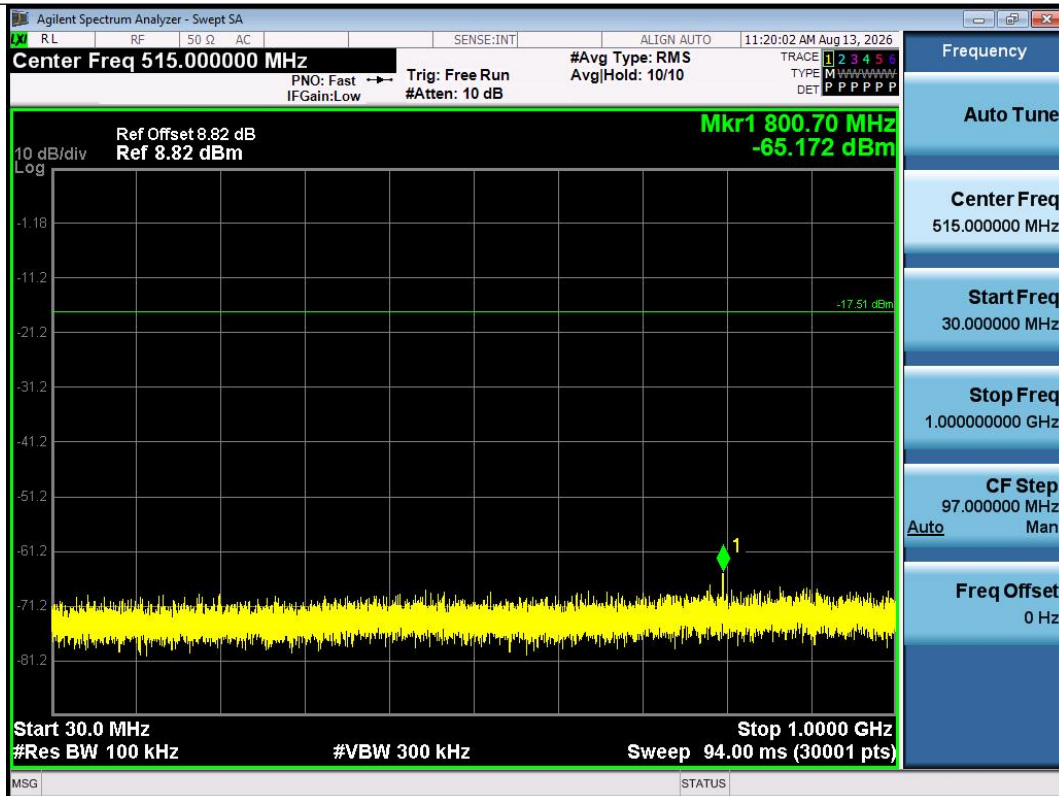
DH5-Ant1-2480-30~1000-PASS



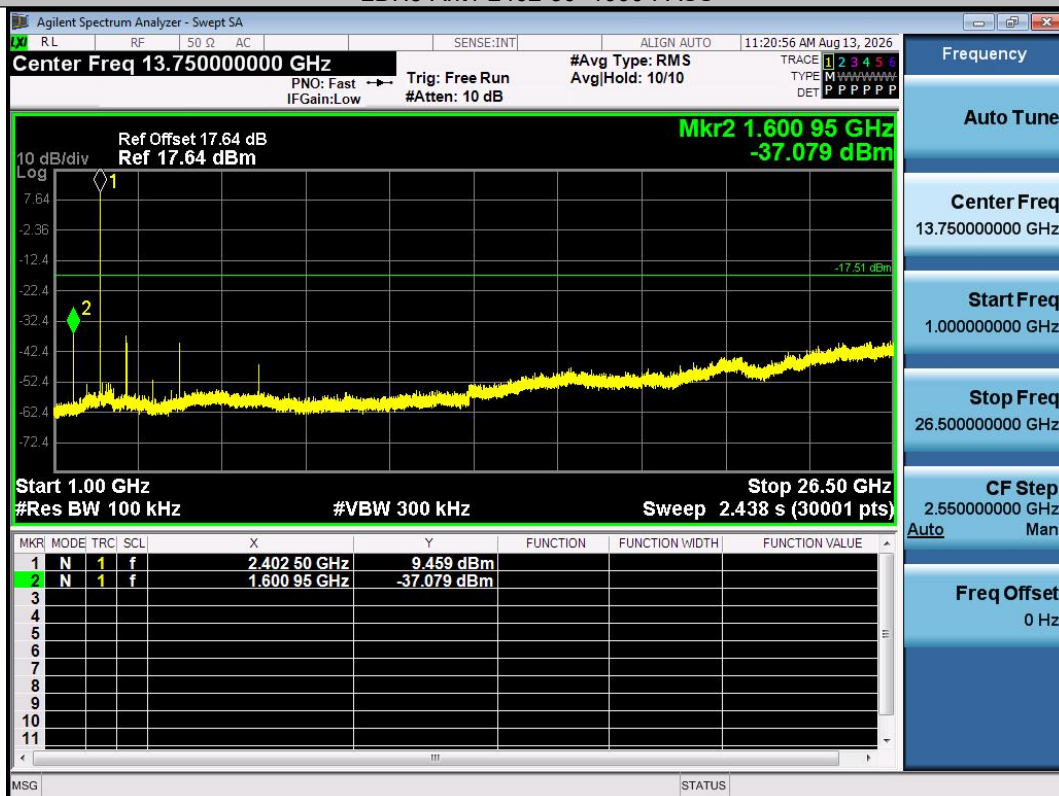
DH5-Ant1-2480-1000~26500-PASS



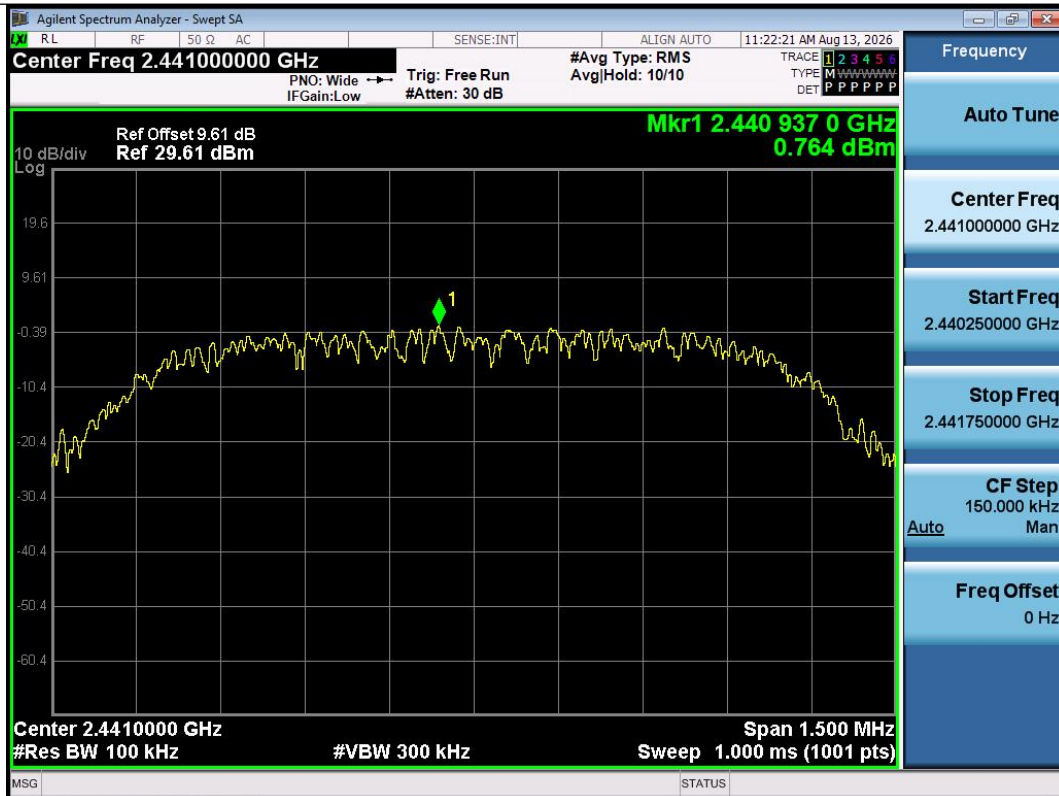
2DH5-Ant1-2402-0~Reference-PASS



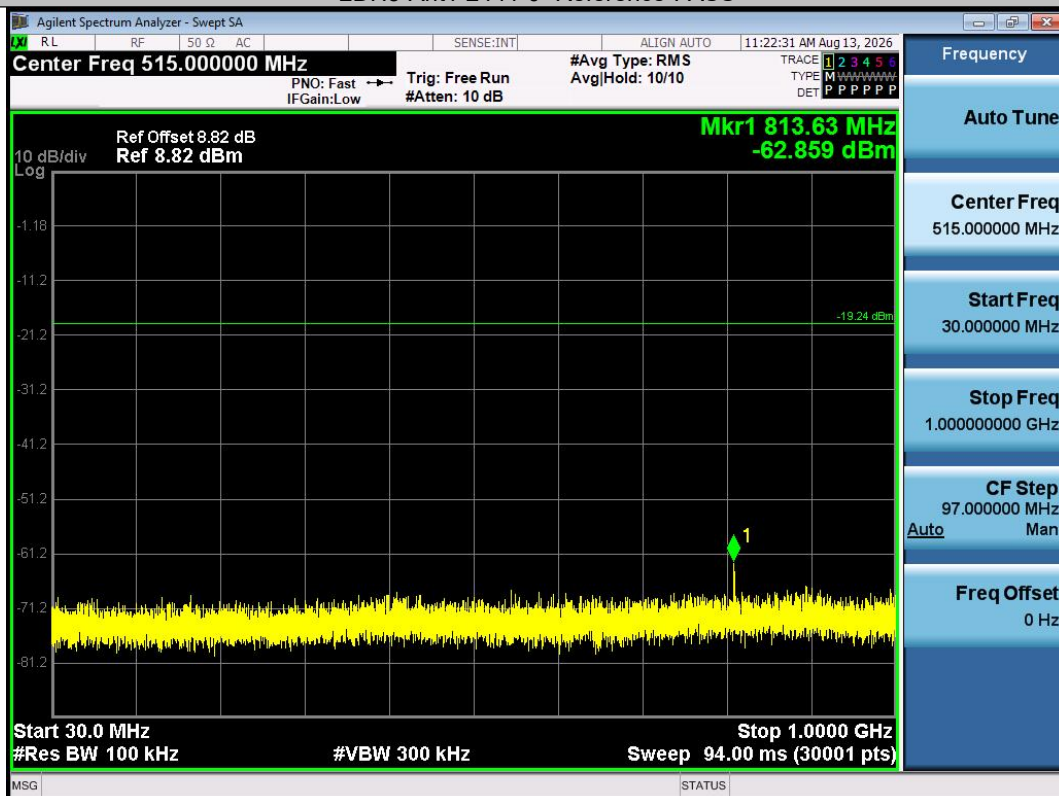
2DH5-Ant1-2402-30~1000-PASS



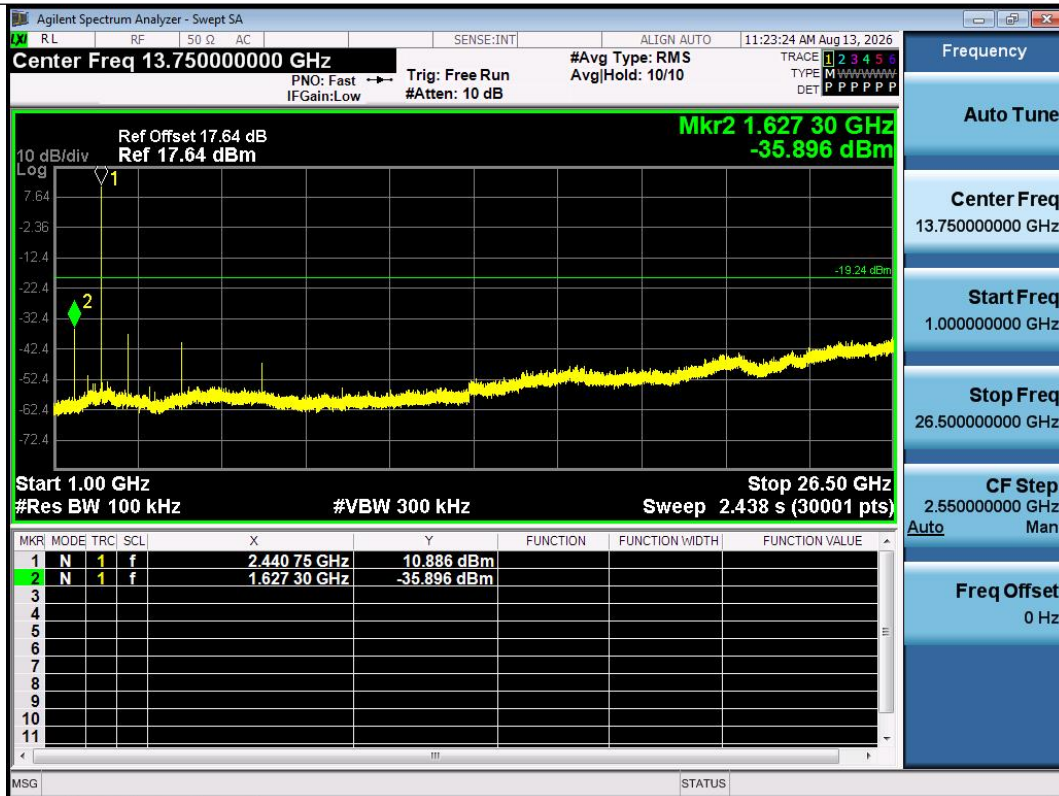
2DH5-Ant1-2402-1000~26500-PASS



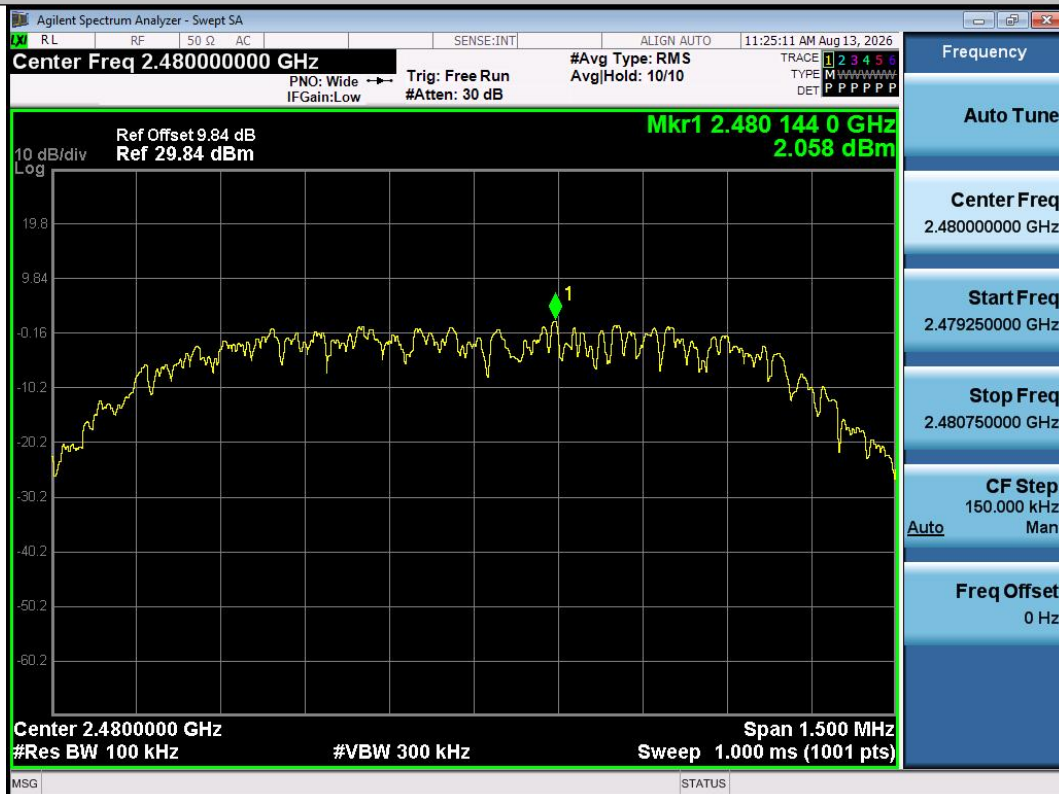
2DH5-Ant1-2441-0~Reference-PASS



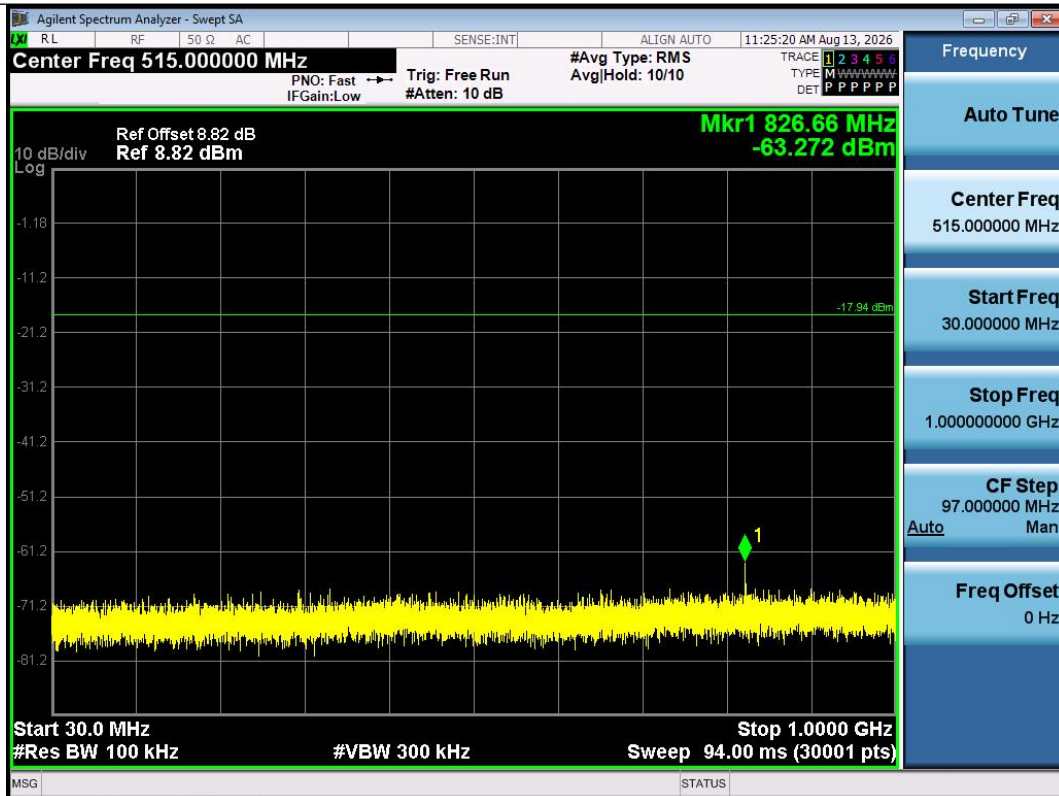
2DH5-Ant1-2441-30~1000-PASS



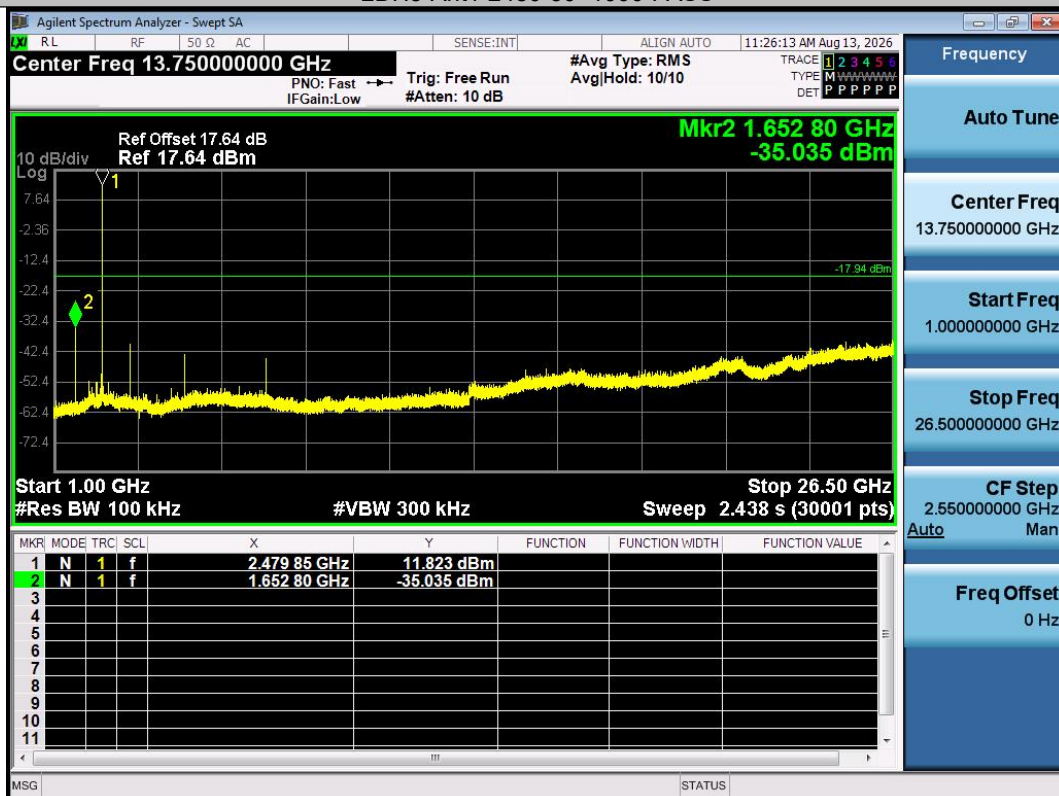
2DH5-Ant1-2441-1000~26500-PASS



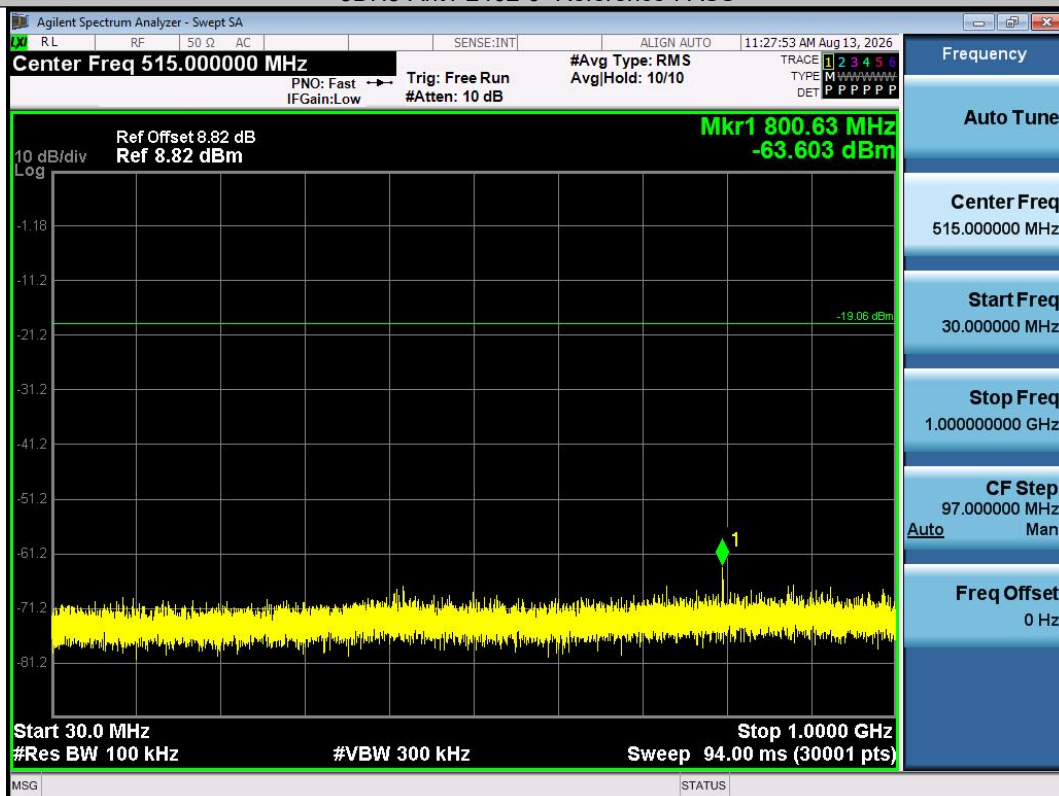
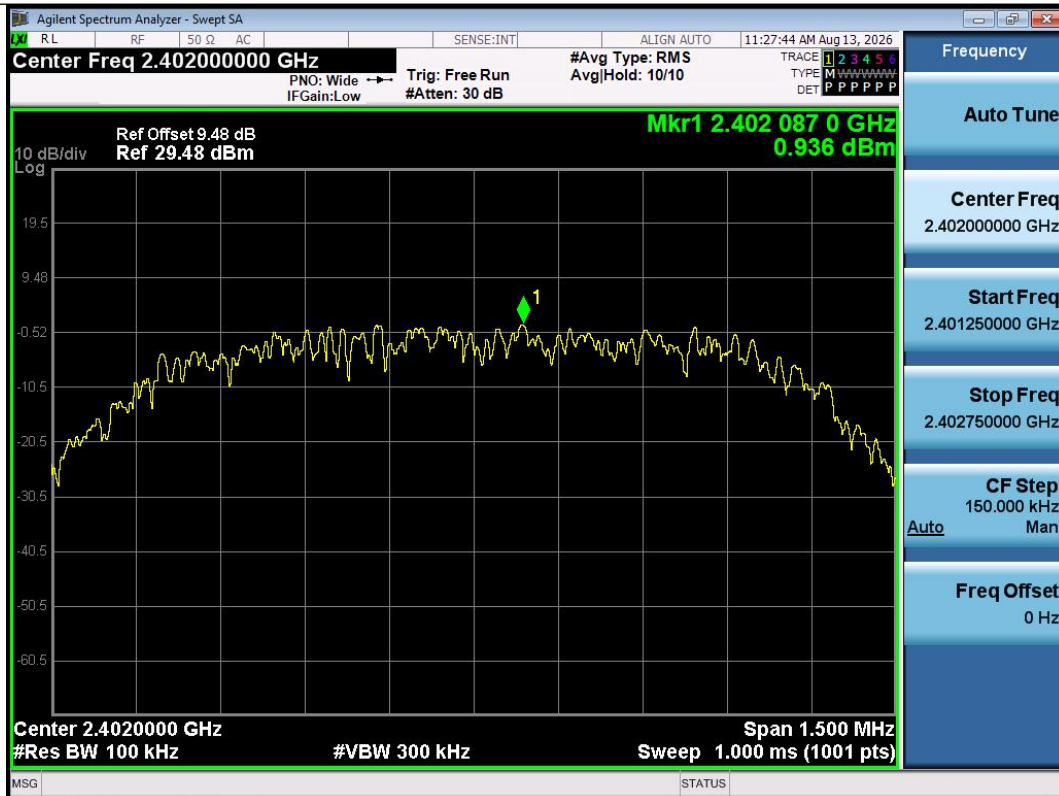
2DH5-Ant1-2480-0~Reference-PASS

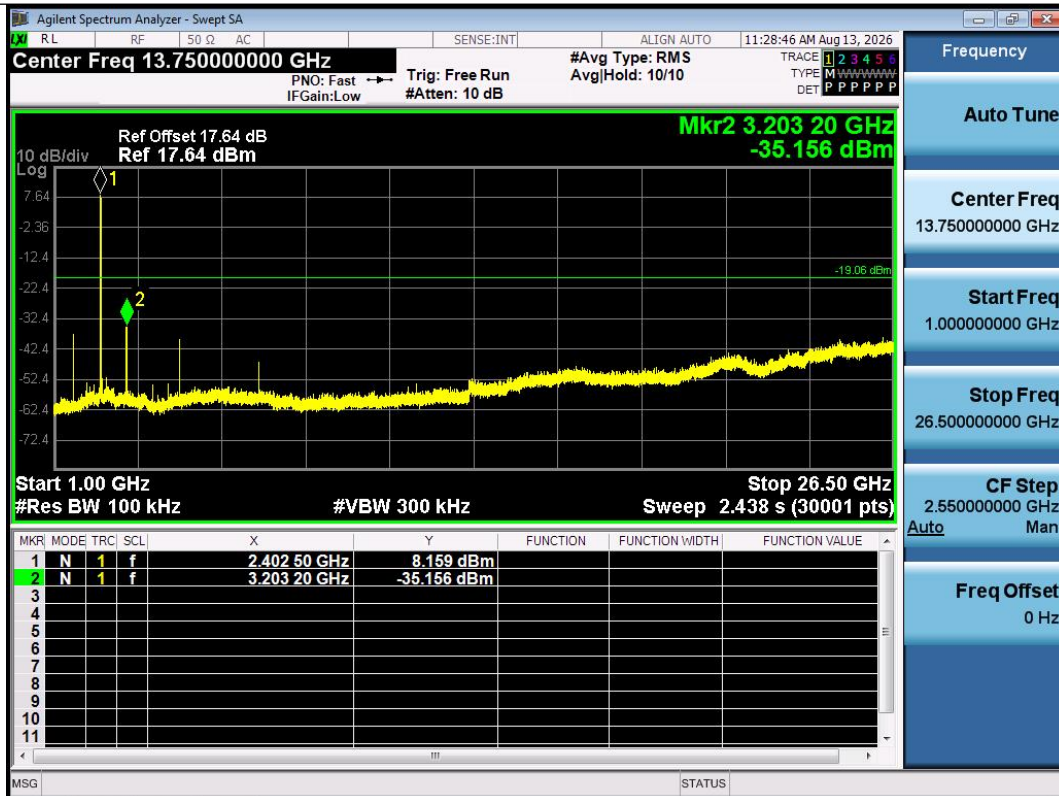


2DH5-Ant1-2480-30~1000-PASS

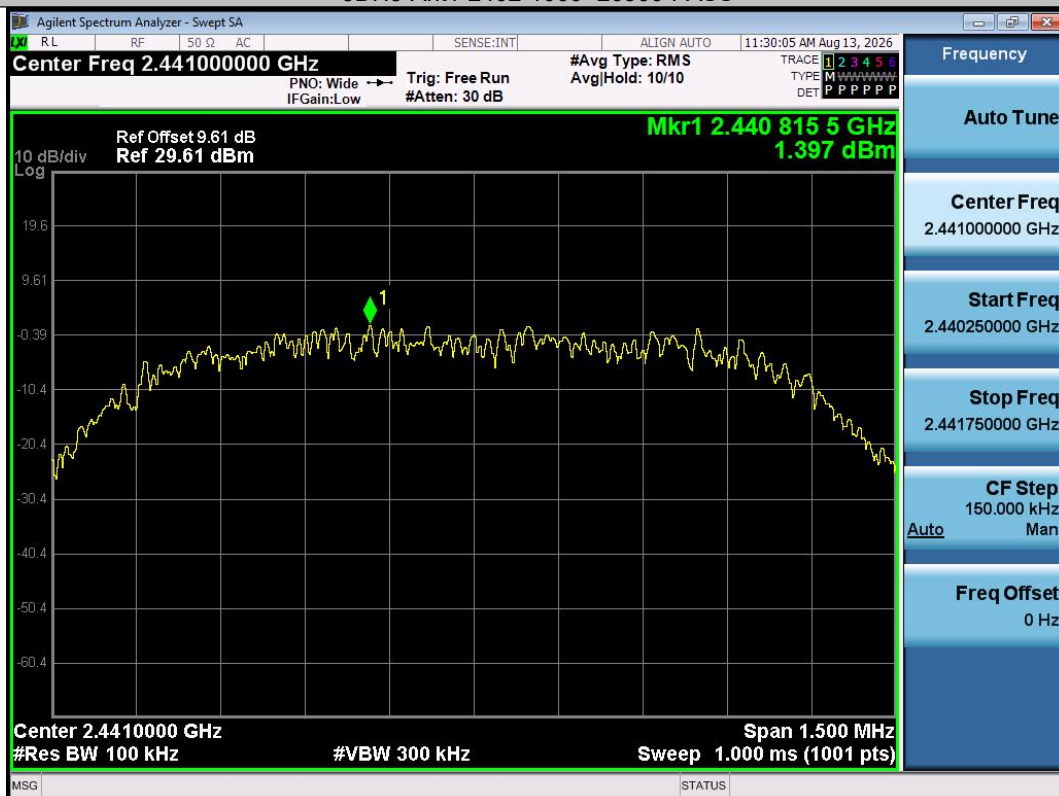


2DH5-Ant1-2480-1000~26500-PASS

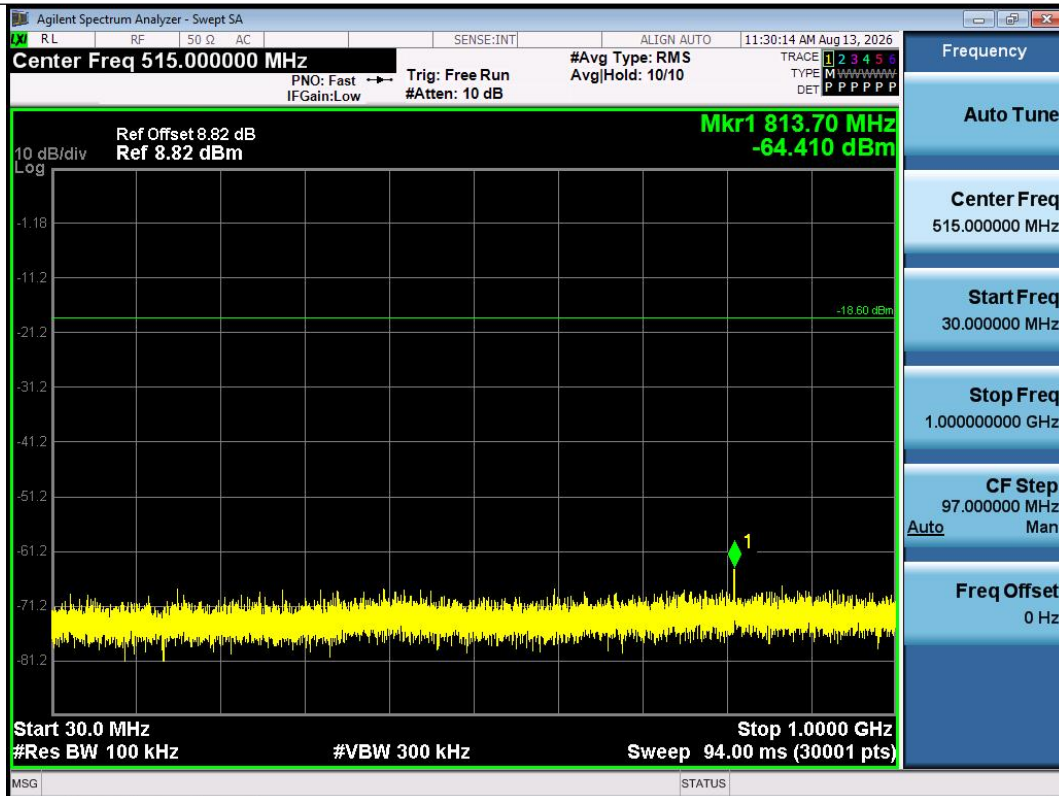




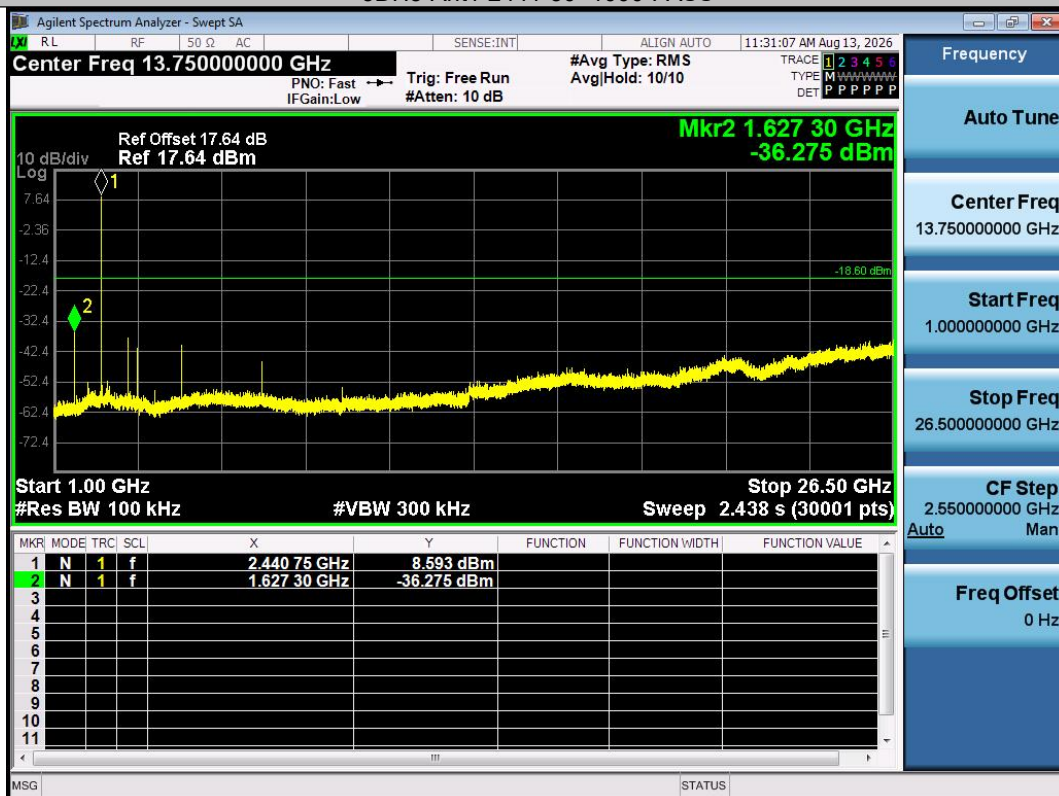
3DH5-Ant1-2402-1000~26500-PASS



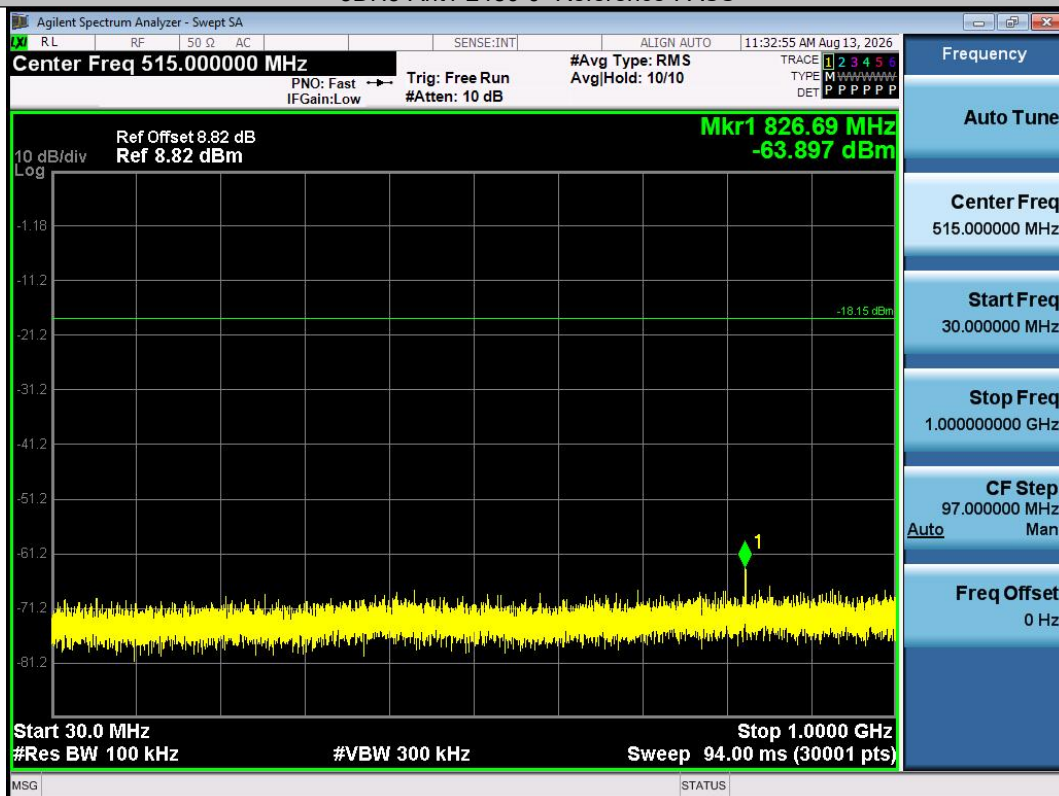
3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS



3DH5-Ant1-2441-1000~26500-PASS





9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02
According to IC RSS-Gen and RSS-247

9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

9.7.5 Test Results

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Temperature:	25° C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})$ (dB);

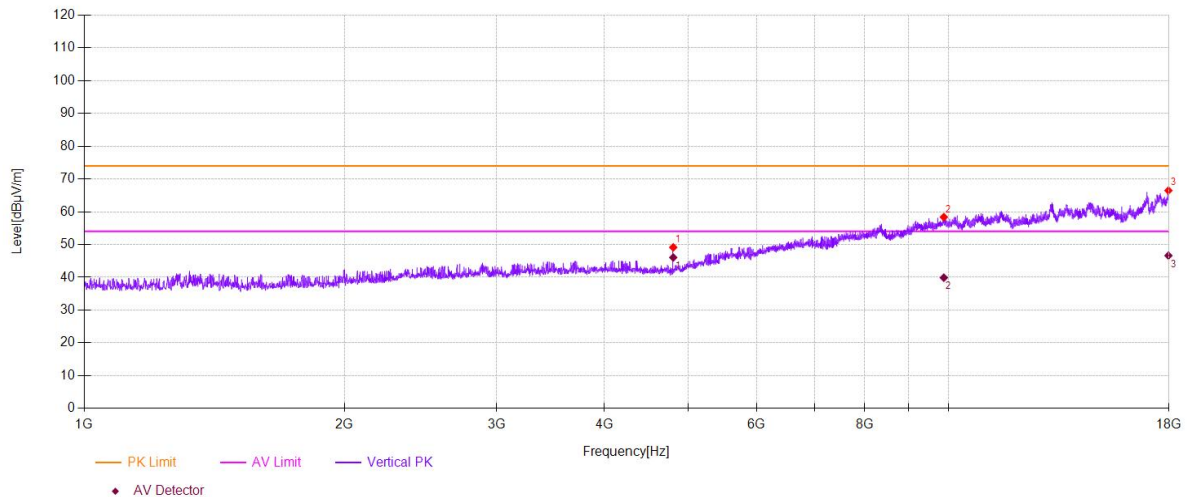
Limit line = Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) result recorded was report as below:

no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 1GHz to 18 GHz.

Test mode: GFSK Frequency: Channel 0: 2402MHz

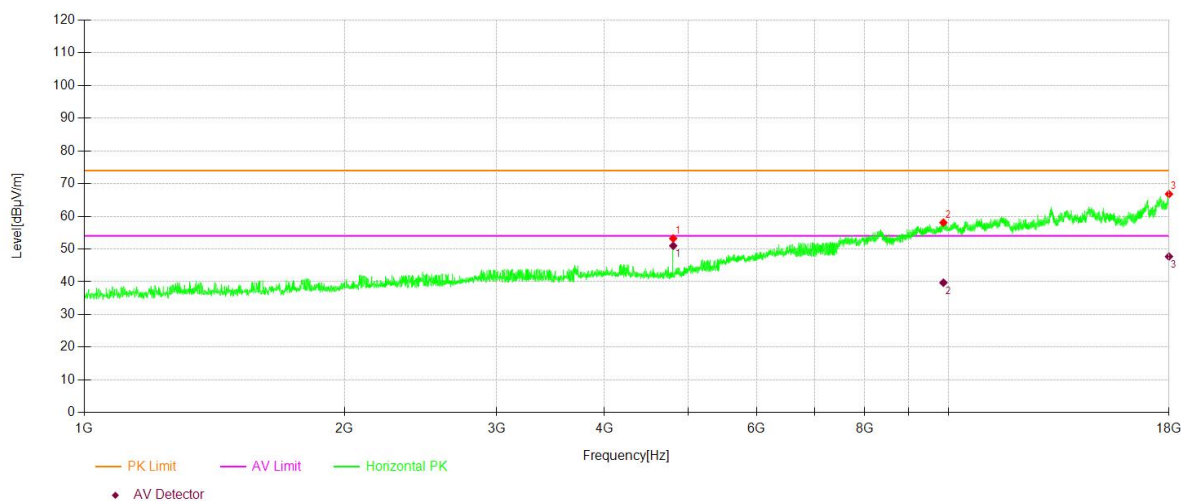


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4803.75	49.14	-12.36	74.00	24.86	PK	Vertical
2	9879.375	58.36	1.65	74.00	15.64	PK	Vertical
3	17973.75	66.48	11.01	74.00	7.52	PK	Vertical

AV Final Data List

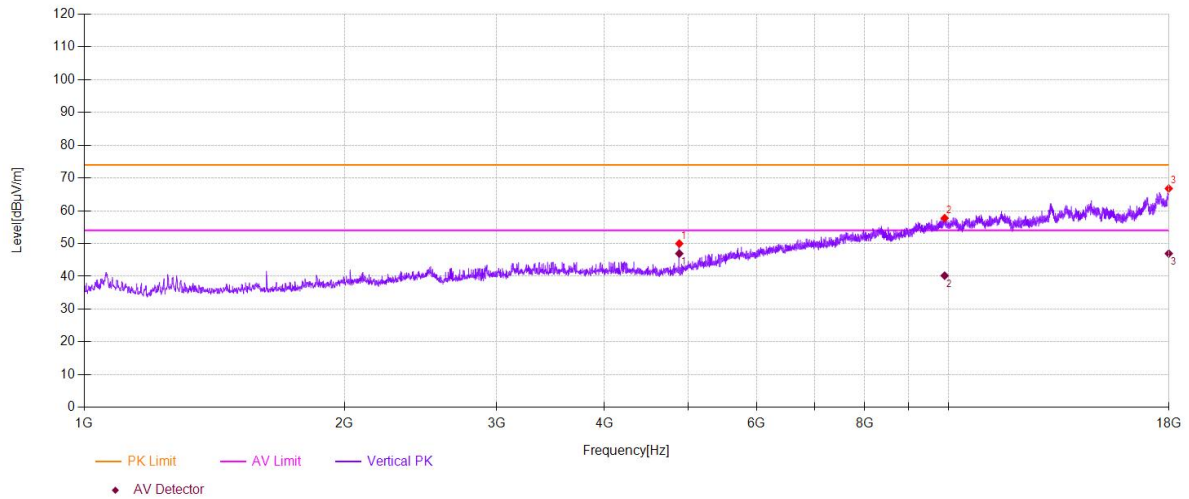
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4803.9698	46.06	54.00	7.94	AV	Vertical
2	9879.375	39.89	54.00	14.11	AV	Vertical
3	17973.75	46.62	54.00	7.38	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4803.75	53.24	-12.36	74.00	20.76	PK	Horizontal
2	9868.125	58.08	1.50	74.00	15.92	PK	Horizontal
3	18000	66.80	12.07	74.00	7.20	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4804.0097	50.99	54.00	3.01	AV	Horizontal
2	9868.125	39.71	54.00	14.29	AV	Horizontal
3	18000	47.71	54.00	6.29	AV	Horizontal

Test mode: GFSK Frequency: Channel 39: 2441MHz

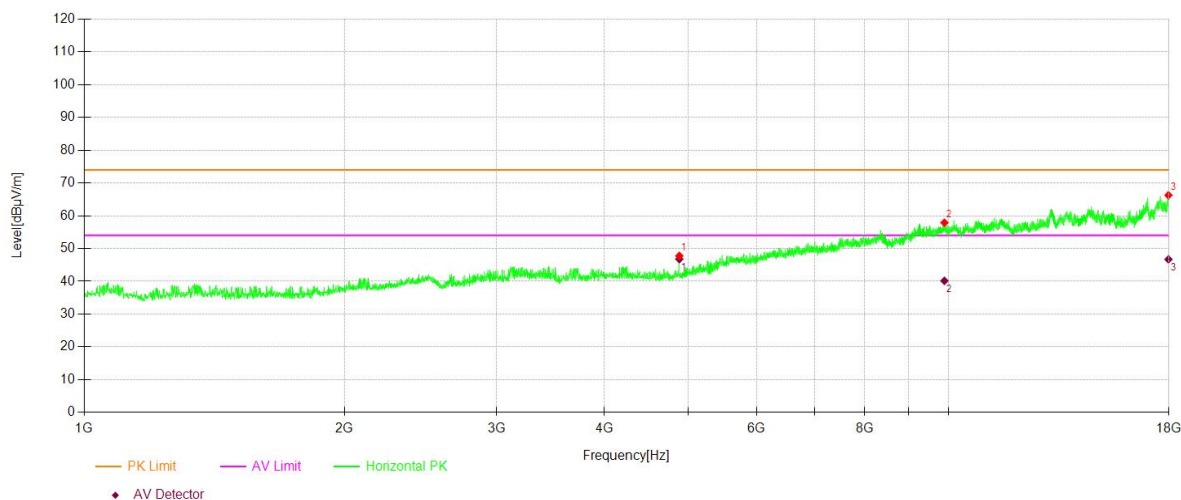


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4882.5	49.98	-12.35	74.00	24.02	PK	Vertical
2	9900	57.73	1.93	74.00	16.27	PK	Vertical
3	17990.625	66.78	11.69	74.00	7.22	PK	Vertical

AV Final Data List

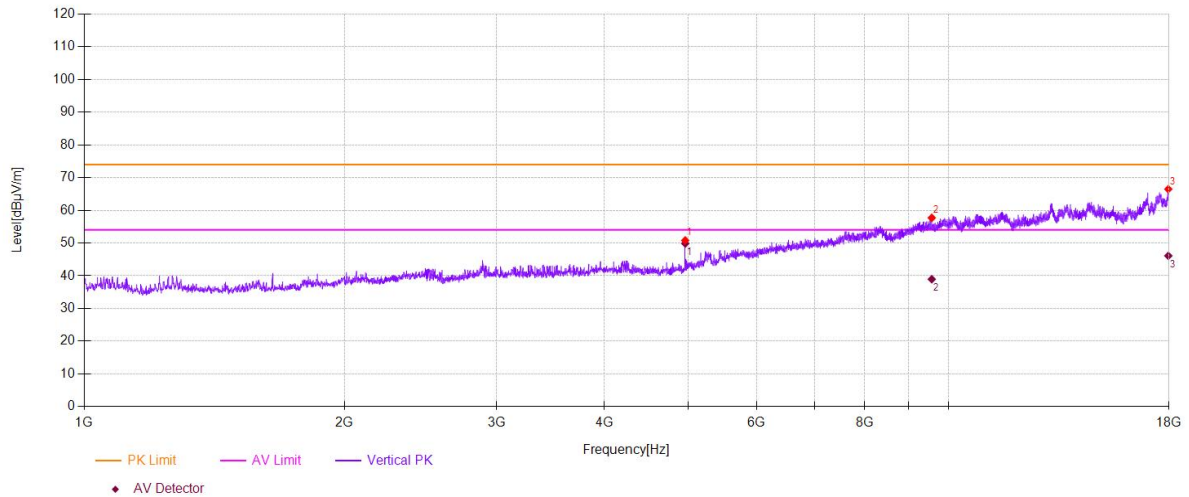
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4881.7707	46.94	54.00	7.06	AV	Vertical
2	9900	40.20	54.00	13.80	AV	Vertical
3	17990.625	46.95	54.00	7.05	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4882.5	47.75	-12.35	74.00	26.25	PK	Horizontal
2	9894.375	57.89	1.85	74.00	16.11	PK	Horizontal
3	17975.625	66.26	11.09	74.00	7.74	PK	Horizontal

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	
1	4881.9955	46.77	54.00	7.23	AV	Horizontal	
2	9894.375	40.14	54.00	13.86	AV	Horizontal	
3	17975.625	46.70	54.00	7.30	AV	Horizontal	

Test mode: GFSK Frequency: Channel 78: 2480MHz

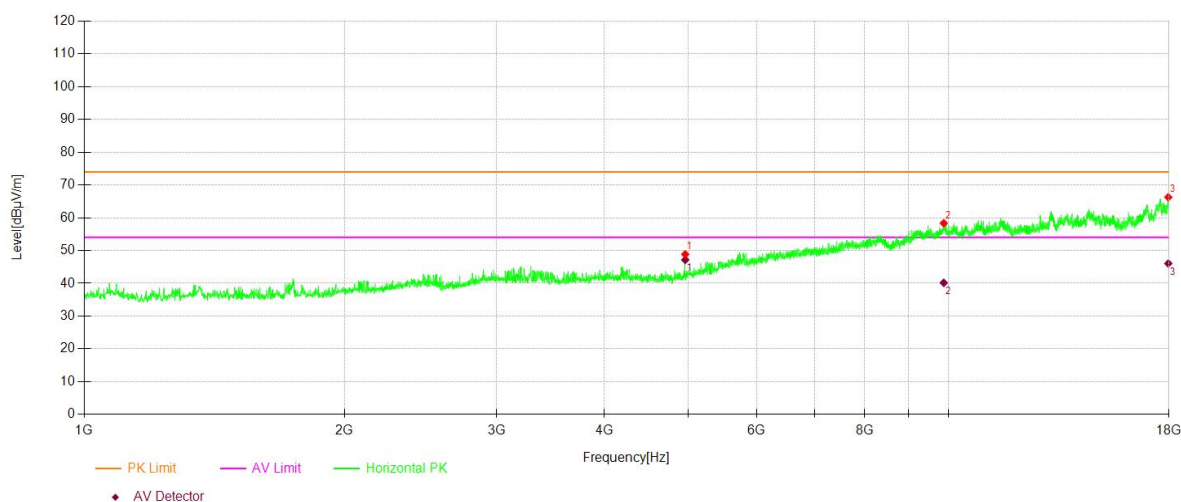


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4959.375	50.81	-12.20	74.00	23.19	PK	Vertical
2	9566.25	57.71	0.30	74.00	16.29	PK	Vertical
3	17968.125	66.47	10.79	74.00	7.53	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4959.9744	49.86	54.00	4.14	AV	Vertical
2	9566.25	38.94	54.00	15.06	AV	Vertical
3	17968.125	46.10	54.00	7.90	AV	Vertical



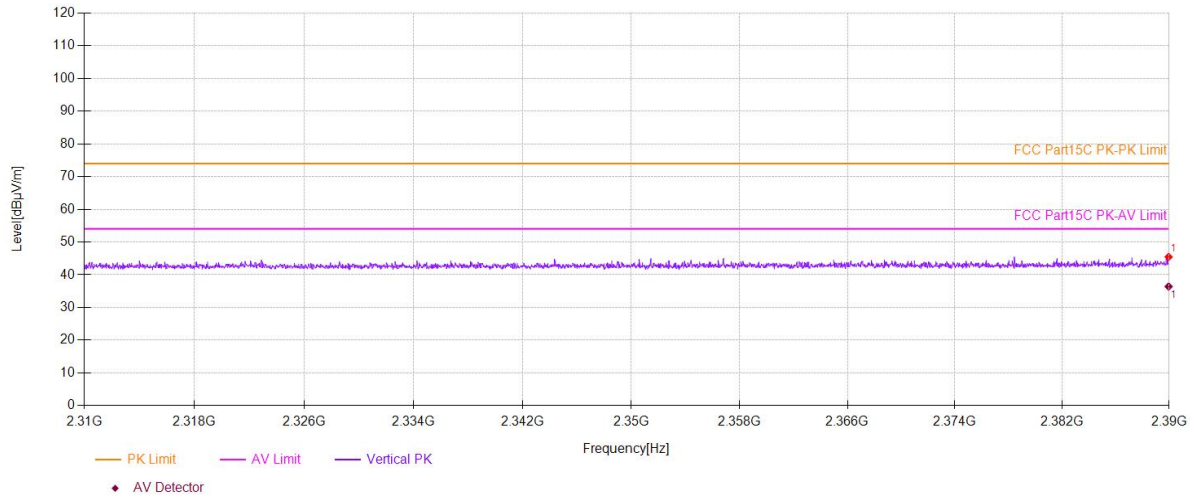
Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4959.375	48.84	-12.20	74.00	25.16	PK	Horizontal
2	9877.5	58.34	1.63	74.00	15.66	PK	Horizontal
3	17968.125	66.27	10.79	74.00	7.73	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4959.9245	47.16	54.00	6.84	AV	Horizontal
2	9877.5	40.16	54.00	13.84	AV	Horizontal
3	17968.125	46.05	54.00	7.95	AV	Horizontal

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK, Hopping) mode have been tested, and the worst(Antenna 1,GFSK, Hopping) result recorded was report as below:

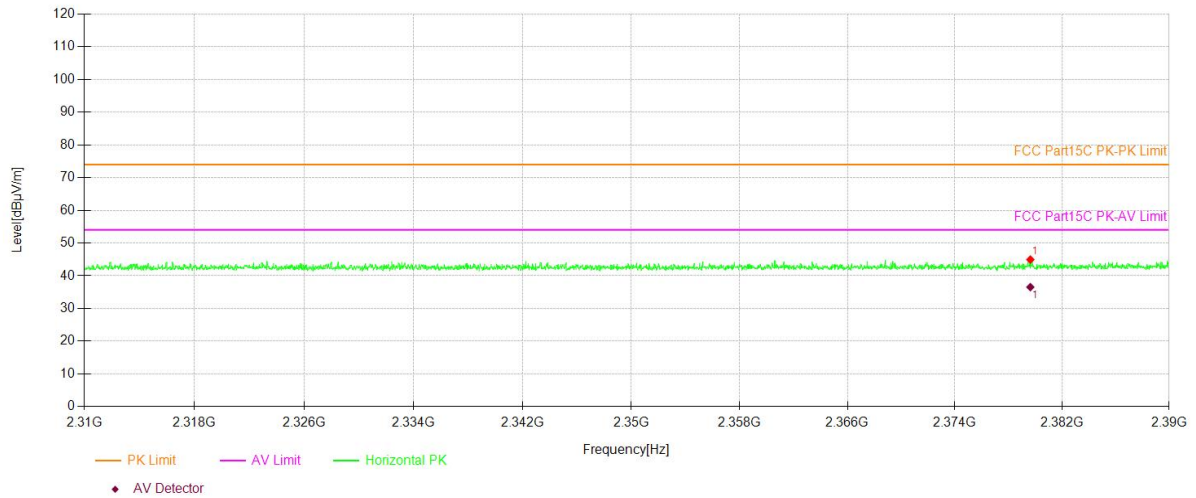
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Channel 0: 2402MHz	GFSK	V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.9733	45.46	30.29	74.00	28.54	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2389.9733	36.41	54.00	17.59	AV	Vertical

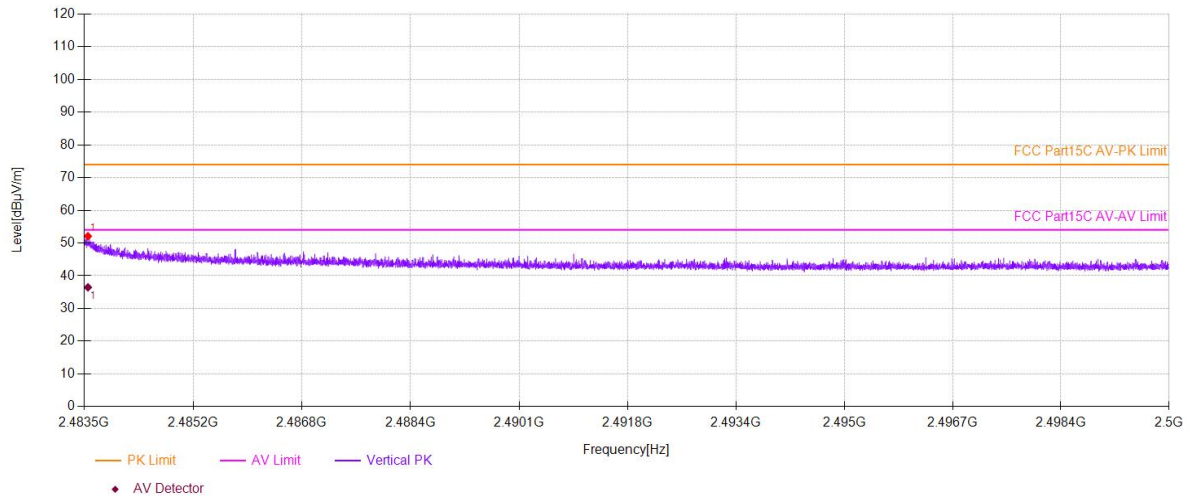
Test Model	Spurious Emission in Restricted Band 2310-2390MHz Channel 0: 2402MHz	GFSK	H
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Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2379.6232	44.95	30.29	74.00	29.05	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2379.6232	36.53	54.00	17.47	AV	Horizontal

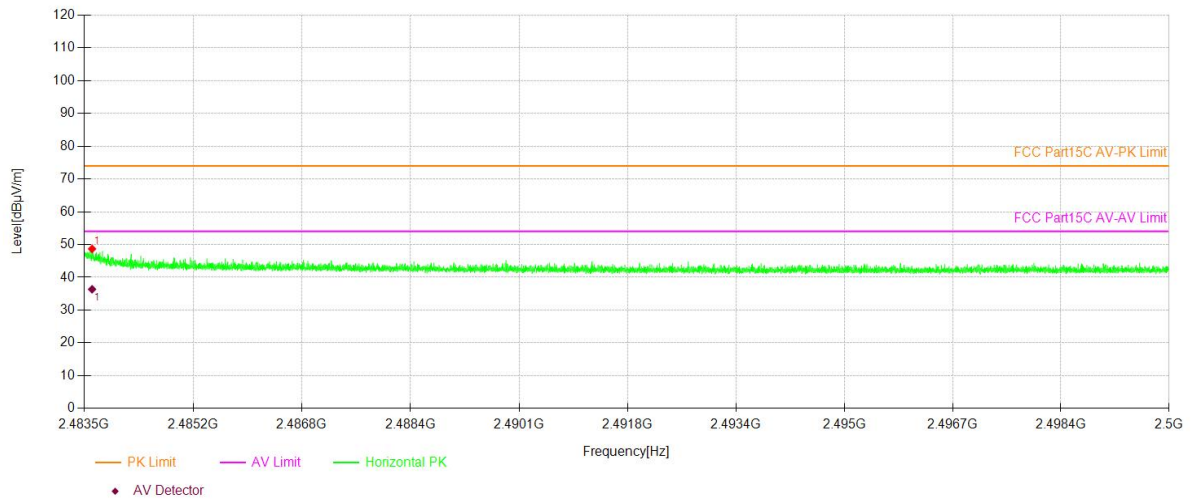
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Channel 78: 2480MHz	GFSK	V
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Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.5561	52.10	30.12	74.00	21.90	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2483.5561	36.47	54.00	17.53	AV	Vertical

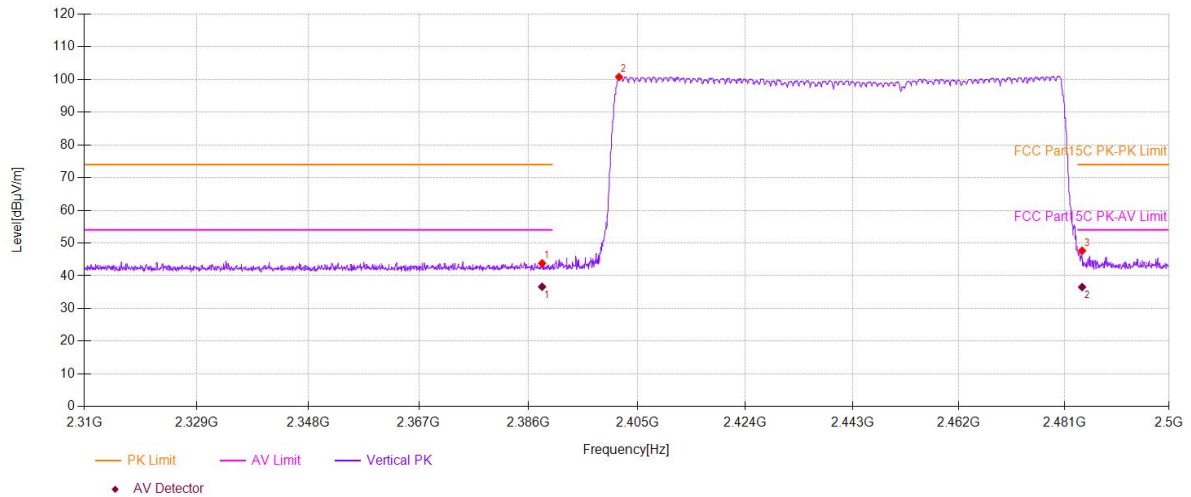
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Channel 78: 2480MHz	GFSK	H
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Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.6188	48.67	30.12	74.00	25.33	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2483.6188	36.35	54.00	17.65	AV	Horizontal

Test Model	Spurious Emission in Restricted Band2310-2390MHz and 2400-2483.5MHz Hopping	GFSK	V
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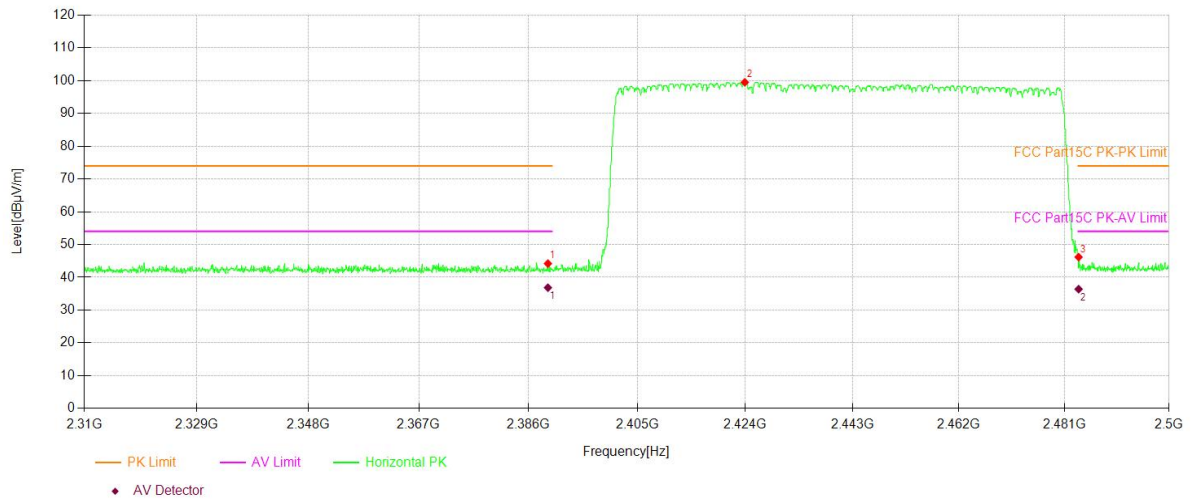


Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.3695	43.81	30.28	74.00	30.19	PK	Vertical
2	2401.8006	100.76	30.27	-	-	PK	Vertical
3	2484.2247	47.67	30.12	74.00	26.33	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2388.3695	36.64	54.00	17.36	AV	Vertical
2	2484.2247	36.54	54.00	17.46	AV	Vertical

Test Model

Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz
Hopping GFSK H



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.3831	44.19	30.29	74.00	29.81	PK	Horizontal
2	2423.9113	99.49	30.22	-	-	PK	Horizontal
3	2483.5912	46.17	30.12	74.00	27.83	PK	Horizontal

AV Final Data List

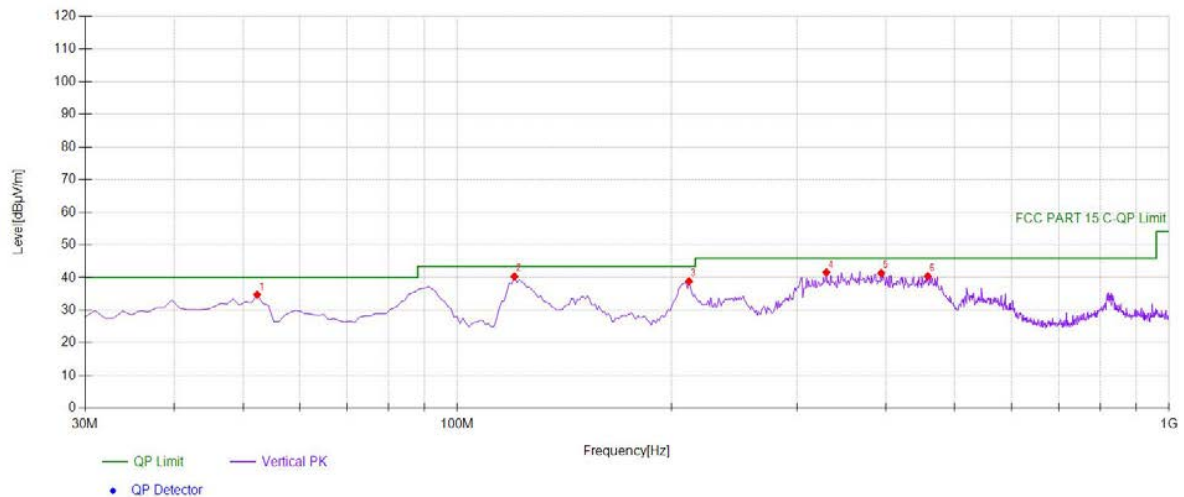
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2389.3831	36.85	54.00	17.15	AV	Horizontal
2	2483.5912	36.39	54.00	17.61	AV	Horizontal

■ Spurious Emission below 1GHz(30MHz to 1GHz)

All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) result recorded was report as below:

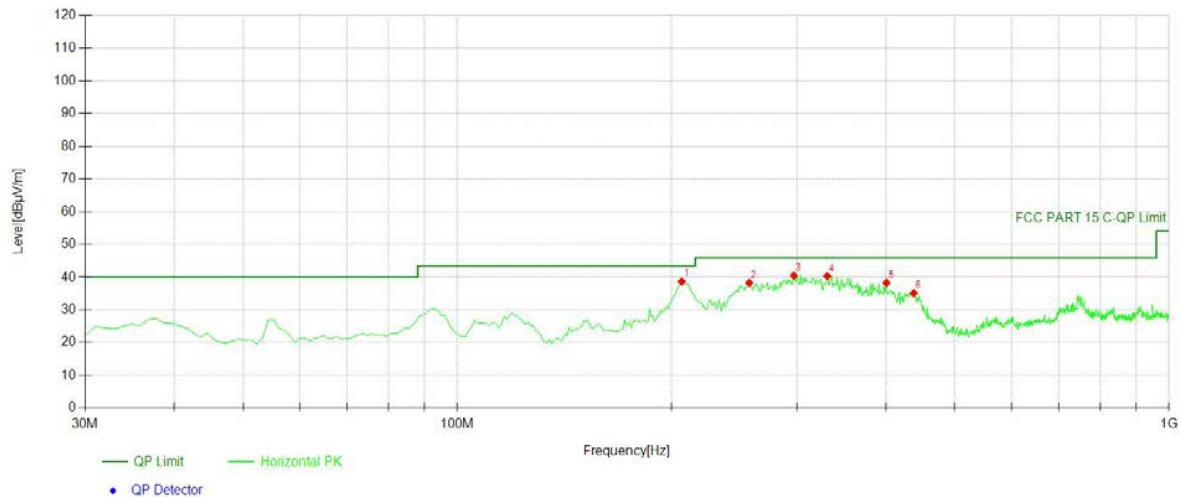
■

Mode:	BT 2402
Environment:	Temp: 25°C; Humi:60%



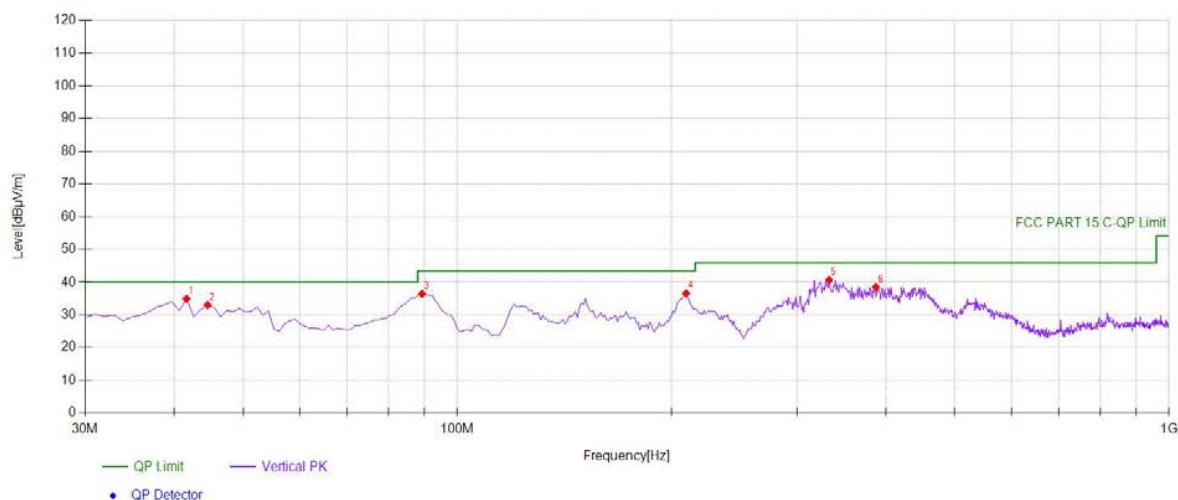
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	52.3323	45.72	-10.97	34.75	PK	40.00	5.25	Vertical
2	120.300	53.72	-13.34	40.38	PK	43.50	3.12	Vertical
3	211.571	50.45	-11.56	38.89	PK	43.50	4.61	Vertical
4	330.03	48.91	-7.28	41.63	PK	46.00	4.37	Vertical
5	394.114	46.99	-5.59	41.40	PK	46.00	4.60	Vertical
6	458.198	44.92	-4.44	40.48	PK	46.00	5.52	Vertical

Mode:	BT 2402
Environment:	Temp: 25°C; Humi:60%



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	206.716	50.54	-11.88	38.66	PK	43.50	4.84	Horizontal
2	257.207	48.64	-10.36	38.28	PK	46.00	7.72	Horizontal
3	297.017	48.90	-8.37	40.53	PK	46.00	5.47	Horizontal
4	331.001	47.57	-7.21	40.36	PK	46.00	5.64	Horizontal
5	400.910	43.85	-5.57	38.28	PK	46.00	7.72	Horizontal
6	437.807	40.40	-5.26	35.14	PK	46.00	10.86	Horizontal

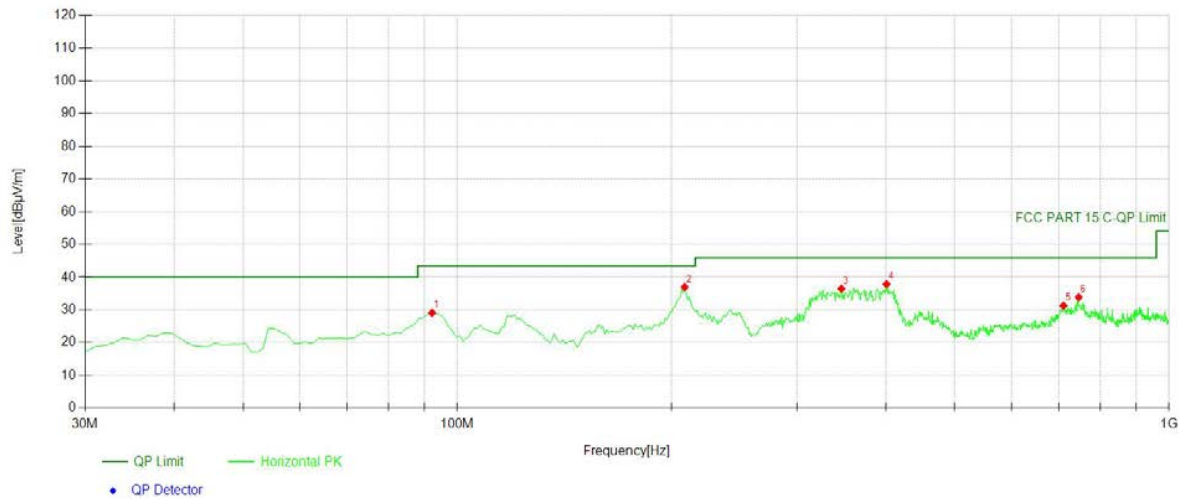
Mode:	BT 2441
Environment:	Temp: 25°C; Humi:60%



Suspected Data List

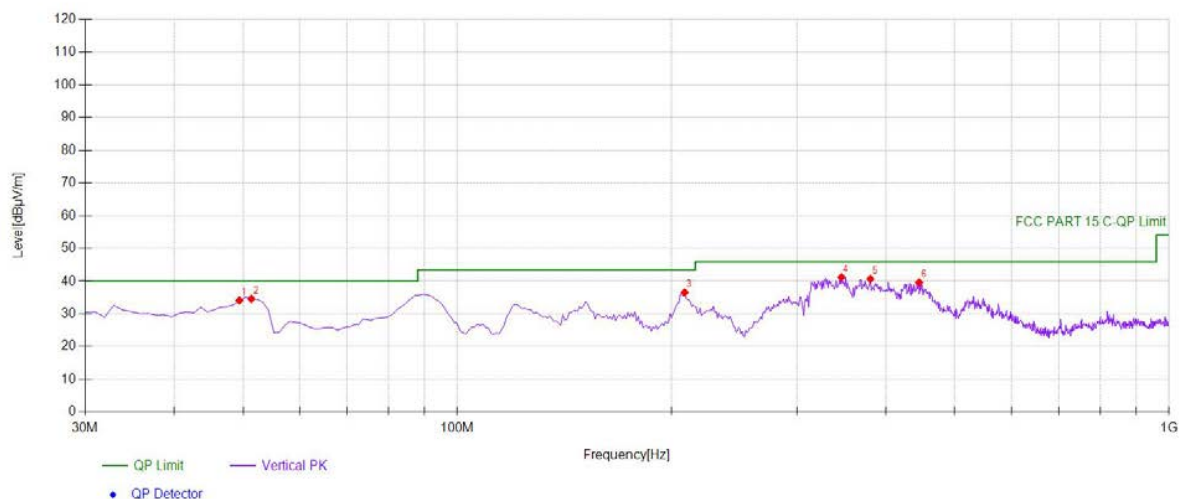
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	41.6517	46.92	-11.99	34.93	PK	40.00	5.07	Vertical
2	44.5646	44.56	-11.53	33.03	PK	40.00	6.97	Vertical
3	89.2292	49.93	-13.50	36.43	PK	43.50	7.07	Vertical
4	209.629	48.27	-11.66	36.61	PK	43.50	6.89	Vertical
5	332.942	47.74	-7.06	40.68	PK	46.00	5.32	Vertical
6	387.317	44.22	-5.69	38.53	PK	46.00	7.47	Vertical

Mode:	BT 2441
Environment:	Temp: 25°C; Humi:60%



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	92.1421	42.14	-13.04	29.10	PK	43.50	14.40	Horizontal
2	208.658	48.71	-11.74	36.97	PK	43.50	6.53	Horizontal
3	346.536	43.06	-6.58	36.48	PK	46.00	9.52	Horizontal
4	400.910	43.43	-5.57	37.86	PK	46.00	8.14	Horizontal
5	710.650	31.46	-0.19	31.27	PK	46.00	14.73	Horizontal
6	746.576	33.83	0.03	33.86	PK	46.00	12.14	Horizontal

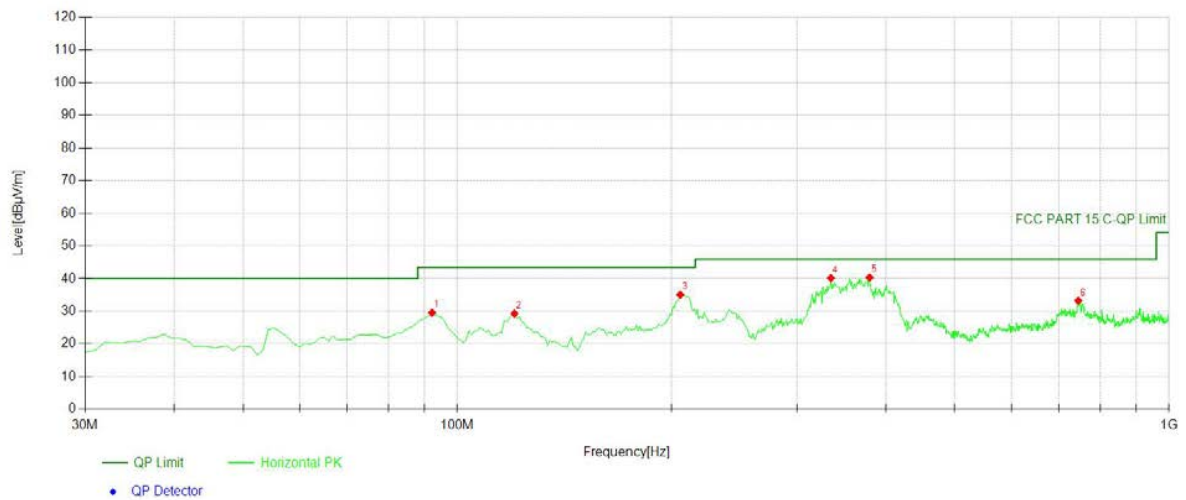
Mode:	BT 2480
Environment:	Temp: 25°C; Humi:60%



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	44.88	-10.75	34.13	PK	40.00	5.87	Vertical
2	51.3614	45.45	-10.85	34.60	PK	40.00	5.40	Vertical
3	208.658	48.32	-11.74	36.58	PK	43.50	6.92	Vertical
4	346.536	47.83	-6.58	41.25	PK	46.00	4.75	Vertical
5	380.520	46.54	-5.84	40.70	PK	46.00	5.30	Vertical
6	445.575	44.59	-4.93	39.66	PK	46.00	6.34	Vertical

Mode:	BT 2480
Environment:	Temp: 25°C; Humi:60%



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	92.1421	42.59	-13.04	29.55	PK	43.50	13.95	Horizontal
2	120.300	42.60	-13.34	29.26	PK	43.50	14.24	Horizontal
3	205.745	47.04	-11.96	35.08	PK	43.50	8.42	Horizontal
4	334.884	47.11	-6.93	40.18	PK	46.00	5.82	Horizontal
5	379.549	46.24	-5.86	40.38	PK	46.00	5.62	Horizontal
6	745.605	33.12	0.10	33.22	PK	46.00	12.78	Horizontal

9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207
According to IC RSS-Gen 8.8

9.8.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

9.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

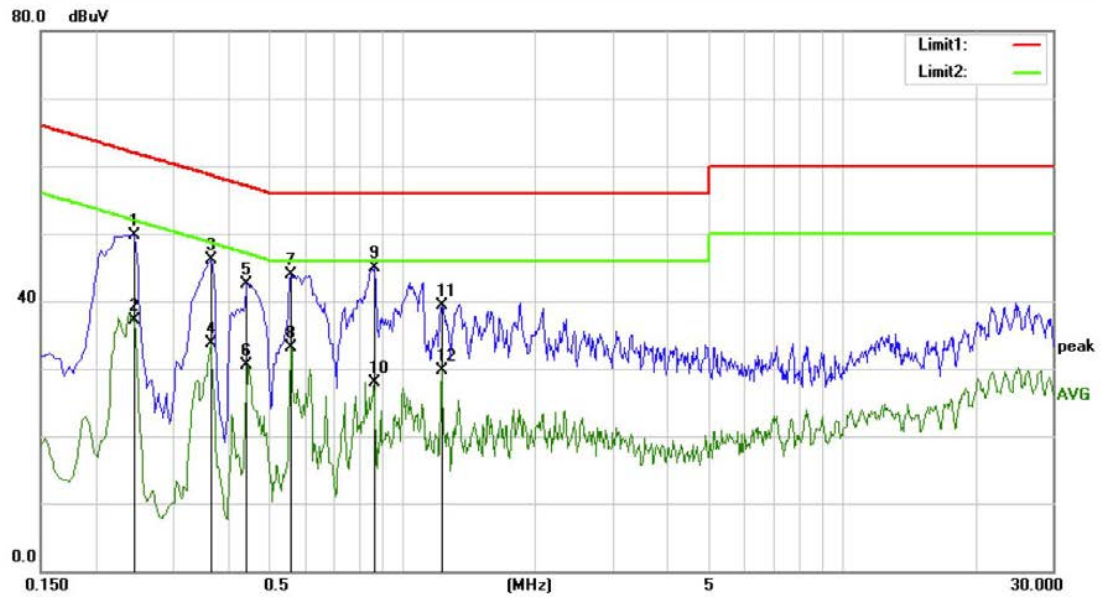
9.8.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

9.8.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1

Phase: **L1**

Temperature: 23.2

Limit: (CE)FCC PART 15 class B_QP

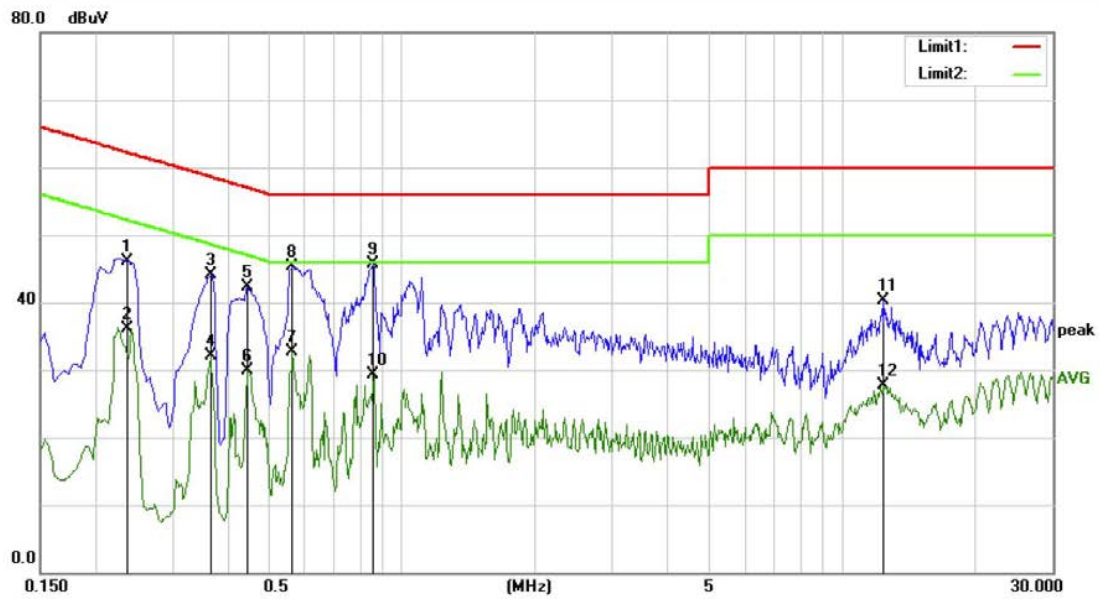
Power: AC 120V/60Hz

Humidity: 64 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2460	39.93	9.82	49.75	61.89	-12.14	QP	
2		0.2460	27.37	9.82	37.19	51.89	-14.70	AVG	
3		0.3660	36.22	9.89	46.11	58.59	-12.48	QP	
4		0.3660	23.88	9.89	33.77	48.59	-14.82	AVG	
5		0.4420	32.64	9.82	42.46	57.02	-14.56	QP	
6		0.4420	20.59	9.82	30.41	47.02	-16.61	AVG	
7		0.5580	33.94	9.90	43.84	56.00	-12.16	QP	
8		0.5580	23.23	9.90	33.13	46.00	-12.87	AVG	
9	*	0.8620	34.95	9.90	44.85	56.00	-11.15	QP	
10		0.8620	17.98	9.90	27.88	46.00	-18.12	AVG	
11		1.2260	29.37	10.00	39.37	56.00	-16.63	QP	
12		1.2260	19.61	10.00	29.61	46.00	-16.39	AVG	



Site Conduction #1
 Limit: (CE)FCC PART 15 class B_QP
 Mode: BT mode
 Note:

Phase: **N**
 Power: AC 120V/60Hz

Temperature: 23.2
 Humidity: 64 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2366	36.32	9.79	46.11	62.21	-16.10	QP	
2		0.2366	26.39	9.79	36.18	52.21	-16.03	AVG	
3		0.3660	34.19	9.89	44.08	58.59	-14.51	QP	
4		0.3660	22.25	9.89	32.14	48.59	-16.45	AVG	
5		0.4460	32.43	9.83	42.26	56.95	-14.69	QP	
6		0.4460	20.09	9.83	29.92	46.95	-17.03	AVG	
7		0.5620	22.80	9.90	32.70	46.00	-13.30	AVG	
8		0.5620	35.39	9.90	45.29	56.00	-10.71	QP	
9	*	0.8580	35.86	9.90	45.76	56.00	-10.24	QP	
10		0.8580	19.44	9.90	29.34	46.00	-16.66	AVG	
11		12.3420	29.49	10.85	40.34	60.00	-19.66	QP	
12		12.3420	16.79	10.85	27.64	50.00	-22.36	AVG	

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 shall be considered sufficient to comply with the provisions of this section. 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.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

9.9.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached documentInternal Photos to show the antenna connector.

*** End of Report ***

10 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



11 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.



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