

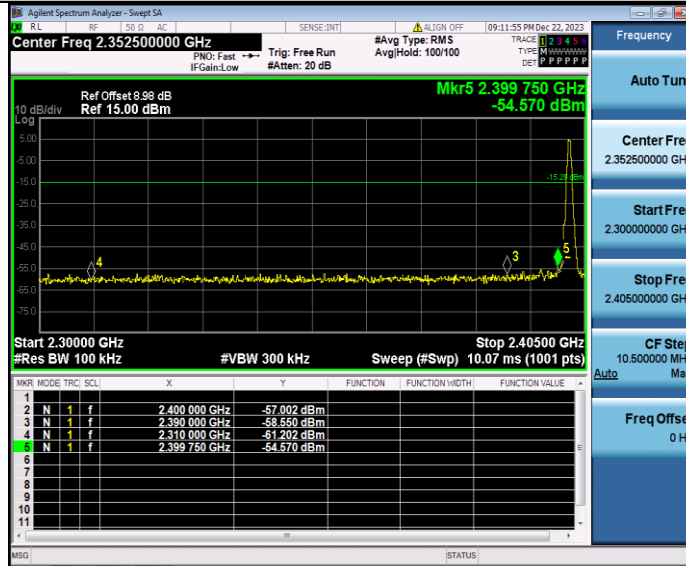
Band edge measurements

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:

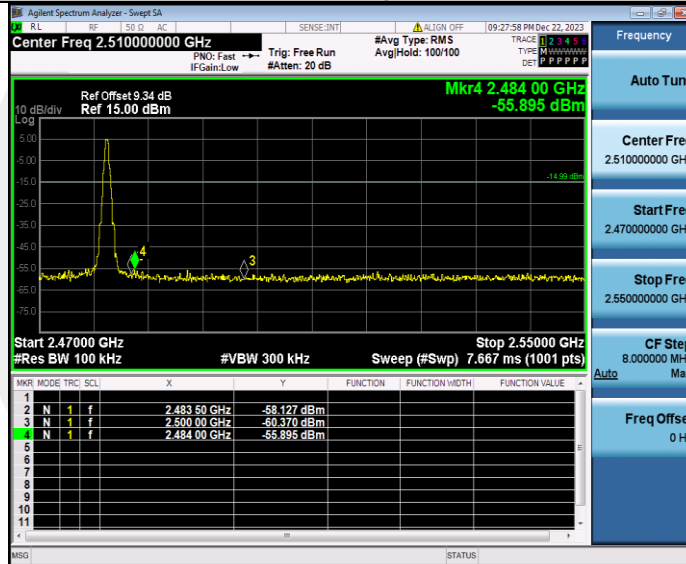
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.71	-54.57	≤ -15.29	PASS
		High	2480	5.01	-55.9	≤ -14.99	PASS
		Low	Hop_2402	3.46	-56.92	≤ -16.54	PASS
		High	Hop_2480	4.20	-56.41	≤ -15.8	PASS
2DH5	Ant1	Low	2402	4.92	-52.28	≤ -15.08	PASS
		High	2480	5.75	-56.32	≤ -14.25	PASS
		Low	Hop_2402	0.99	-57.18	≤ -19.01	PASS
		High	Hop_2480	5.54	-55.8	≤ -14.46	PASS
3DH5	Ant1	Low	2402	5.35	-54.02	≤ -14.65	PASS
		High	2480	5.60	-56.31	≤ -14.4	PASS
		Low	Hop_2402	1.11	-57.4	≤ -18.89	PASS
		High	Hop_2480	2.31	-57.19	≤ -17.69	PASS



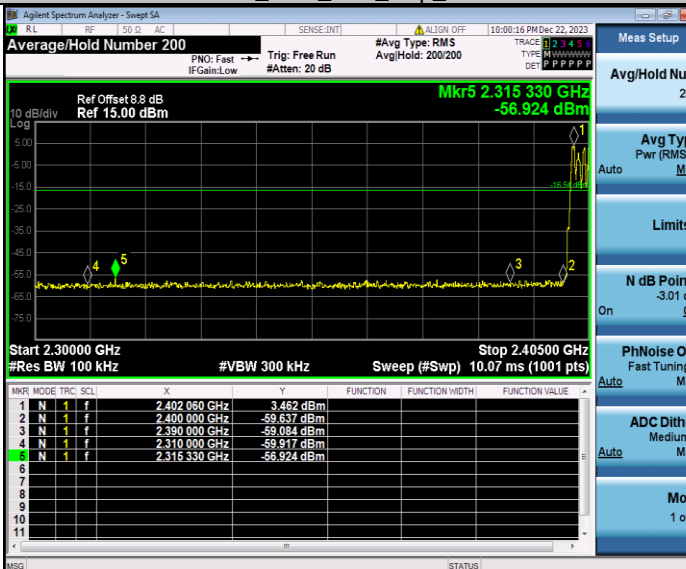
DH5_Ant1_Low_2402



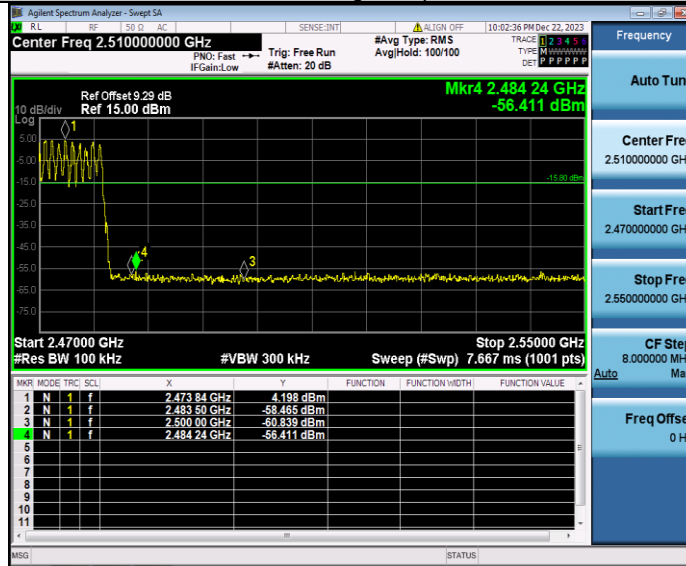
DH5_Ant1_High_2480



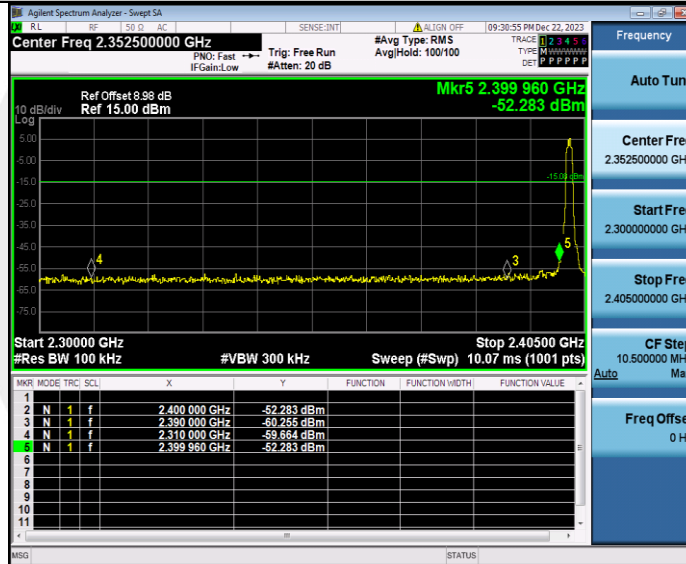
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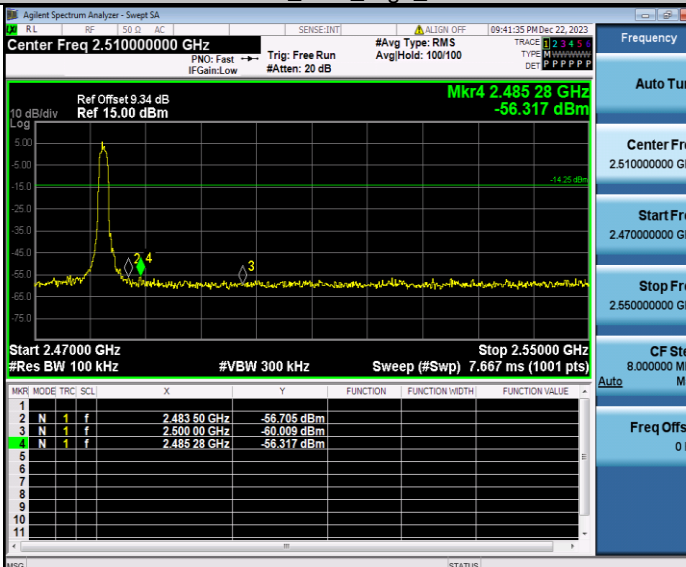
DH5_Ant1_High_Hop_2480



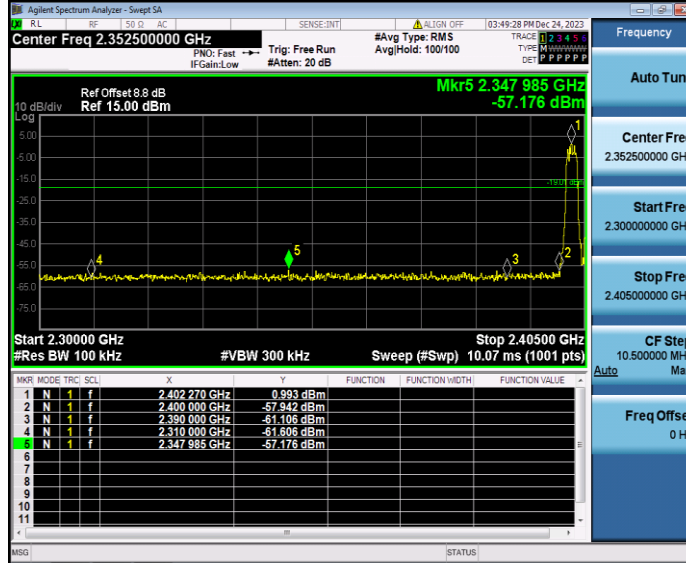
2DH5_Ant1_Low_2402



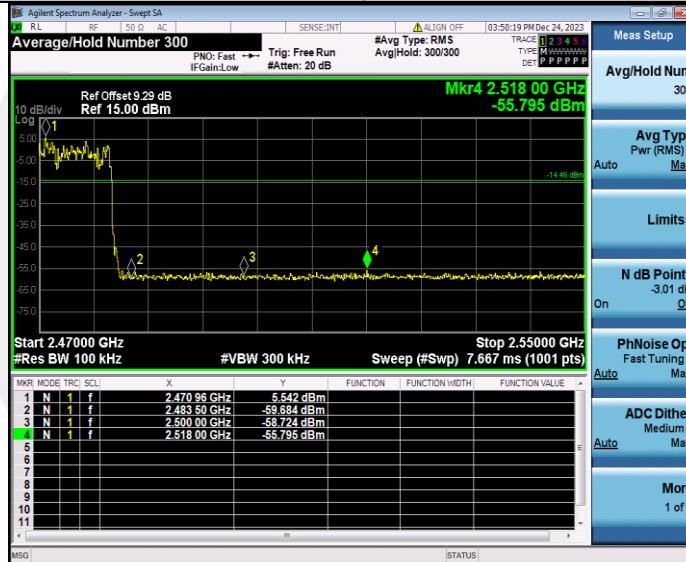
2DH5_Ant1_High_2480



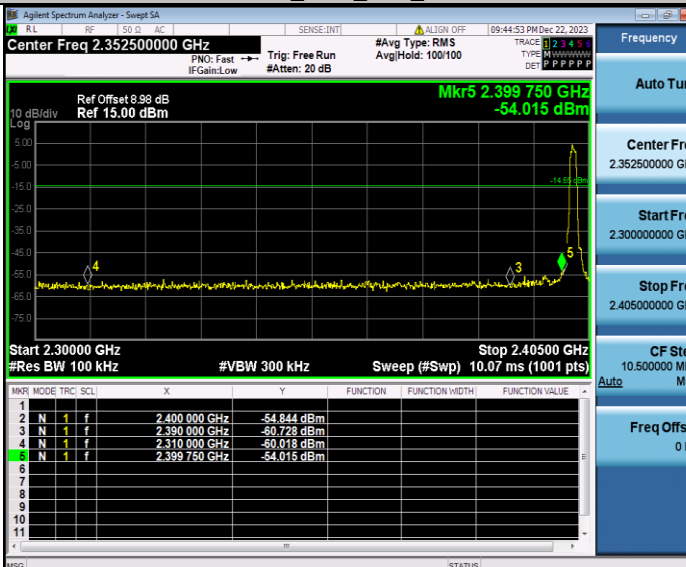
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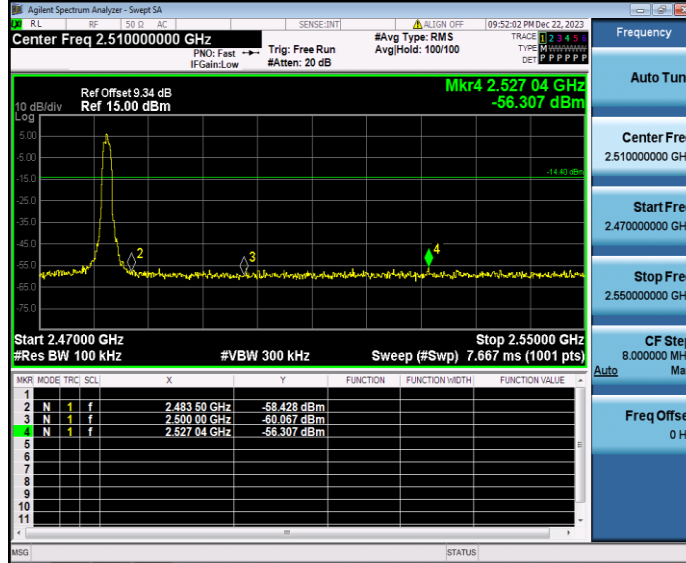
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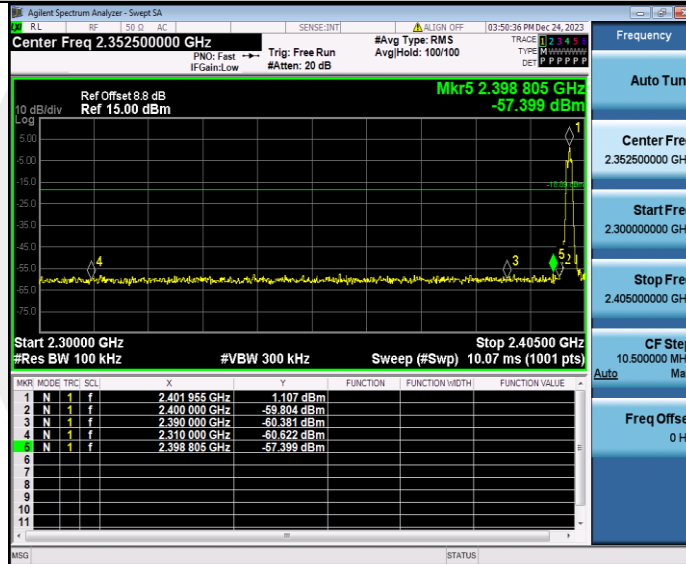
3DH5_Ant1_Low_2402



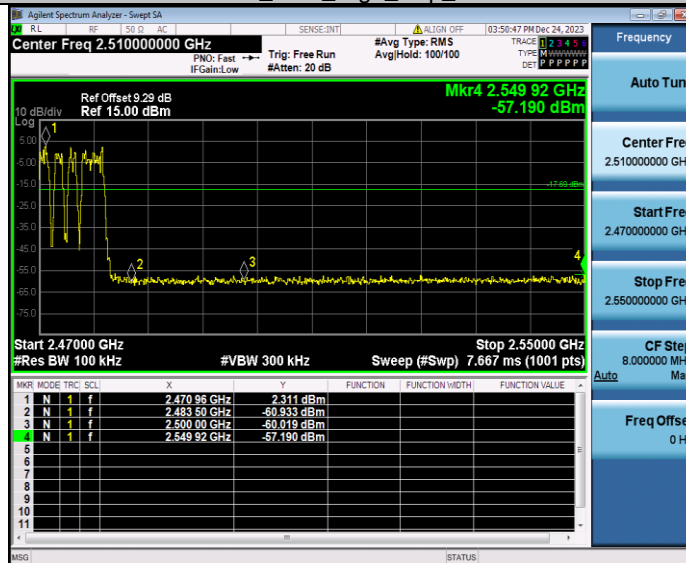
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

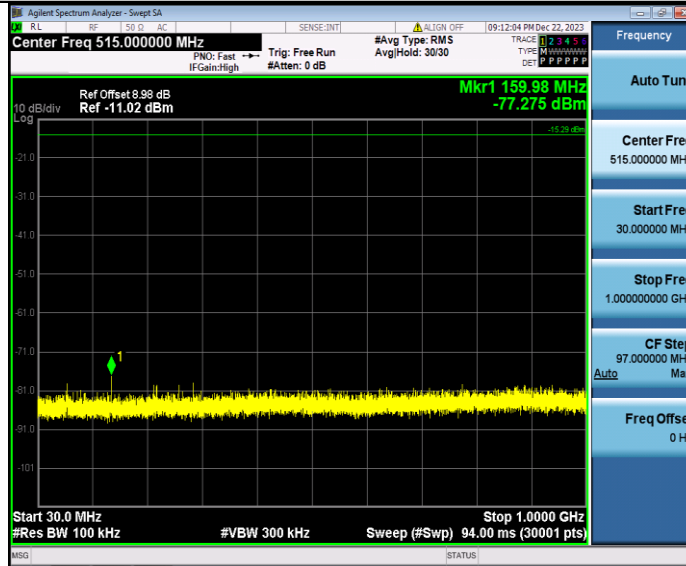


Conducted Spurious Emission

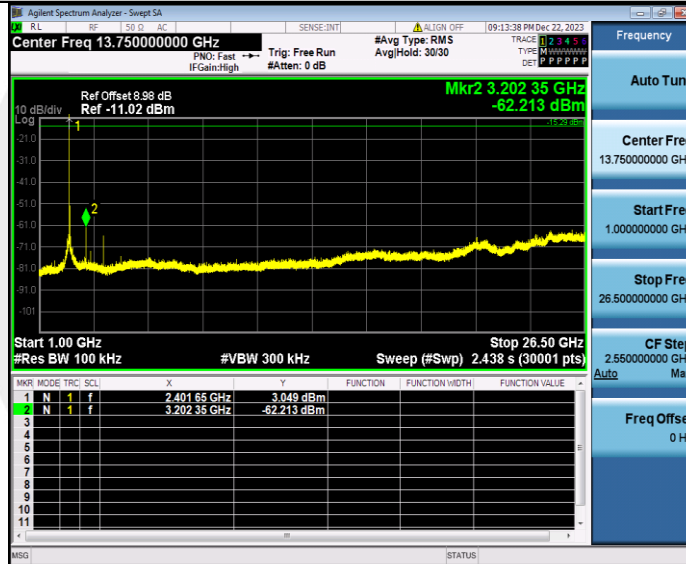
All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) result recorded was report as below:

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	4.71	-77.28	≤ -15.29	PASS
			1000~26500	4.71	-62.21	≤ -15.29	PASS
		2441	30~1000	4.21	-77.96	≤ -15.79	PASS
			1000~26500	4.21	-56.33	≤ -15.79	PASS
		2480	30~1000	5.01	-78.34	≤ -14.99	PASS
			1000~26500	5.01	-40.16	≤ -14.99	PASS
2DH5	Ant1	2402	30~1000	4.92	-78.33	≤ -15.08	PASS
			1000~26500	4.92	-50.48	≤ -15.08	PASS
		2441	30~1000	4.78	-77.67	≤ -15.22	PASS
			1000~26500	4.78	-40.67	≤ -15.22	PASS
		2480	30~1000	5.75	-77.43	≤ -14.25	PASS
			1000~26500	5.75	-39.56	≤ -14.25	PASS
3DH5	Ant1	2402	30~1000	5.35	-77.9	≤ -14.65	PASS
			1000~26500	5.35	-40.86	≤ -14.65	PASS
		2441	30~1000	4.93	-77.03	≤ -15.07	PASS
			1000~26500	4.93	-50.35	≤ -15.07	PASS
		2480	30~1000	5.60	-78.37	≤ -14.4	PASS
			1000~26500	5.60	-50.36	≤ -14.4	PASS

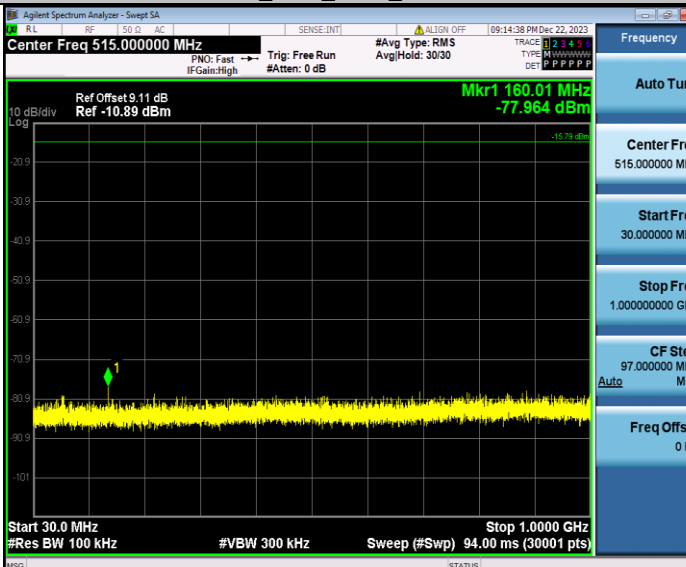
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



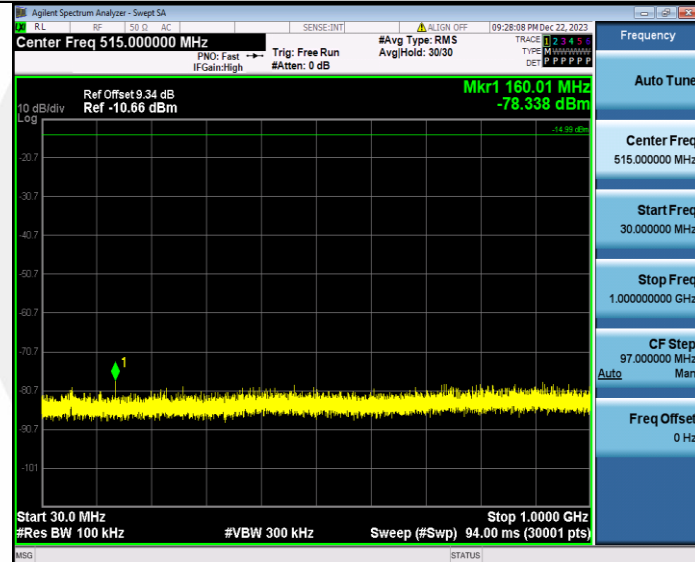
DH5_Ant1_2441_30~1000



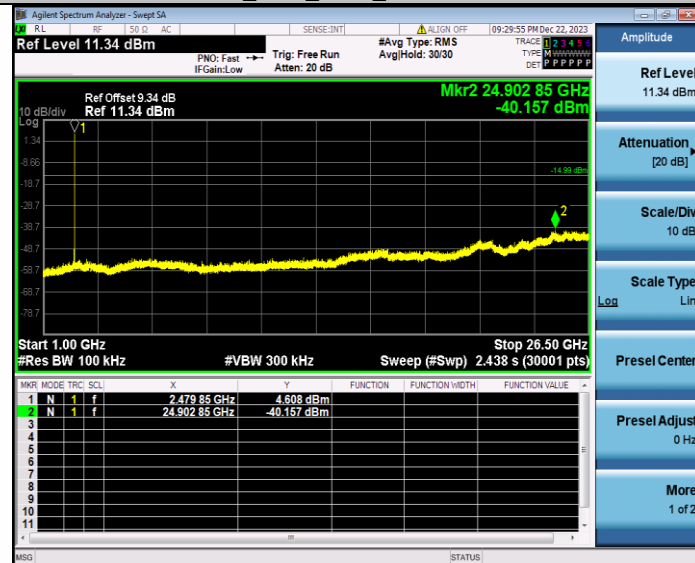
DH5_Ant1_2441_1000~26500



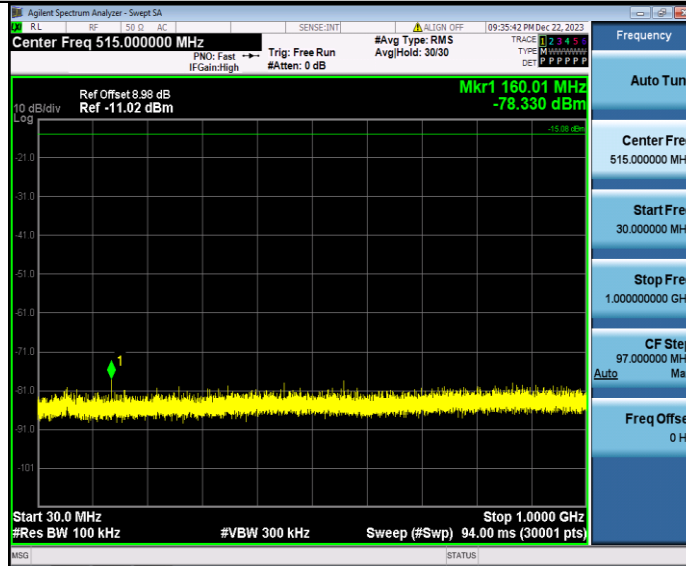
DH5_Ant1_2480_30~1000



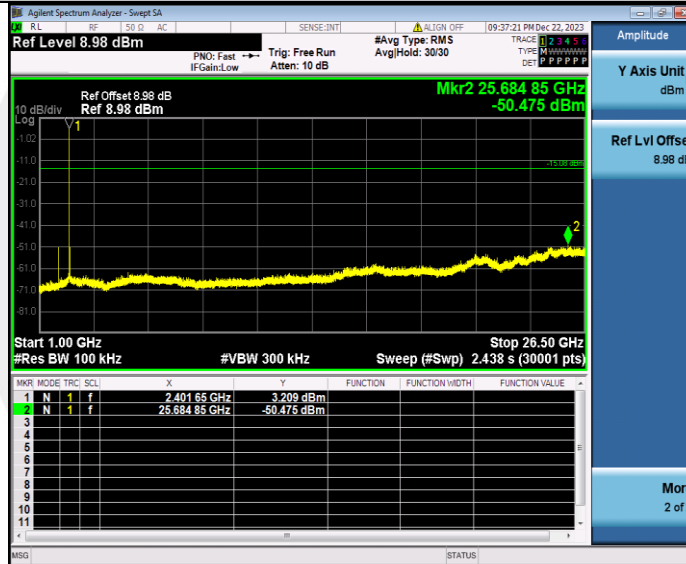
DH5_Ant1_2480_1000~26500



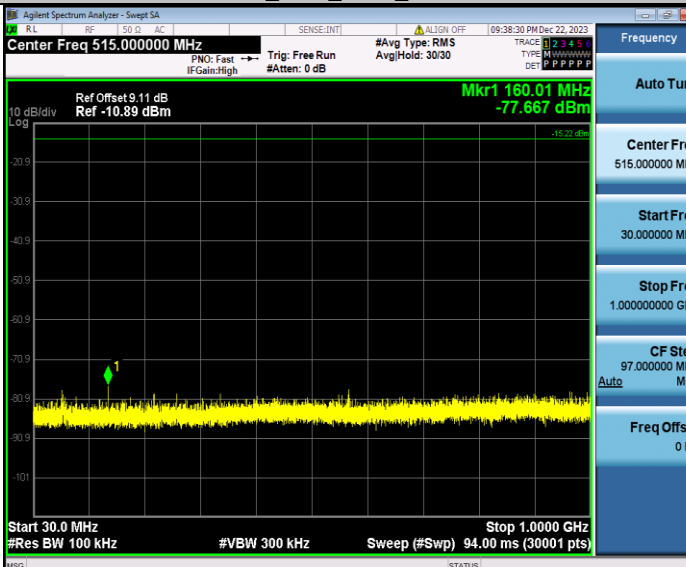
2DH5_Ant1_2402_30~1000



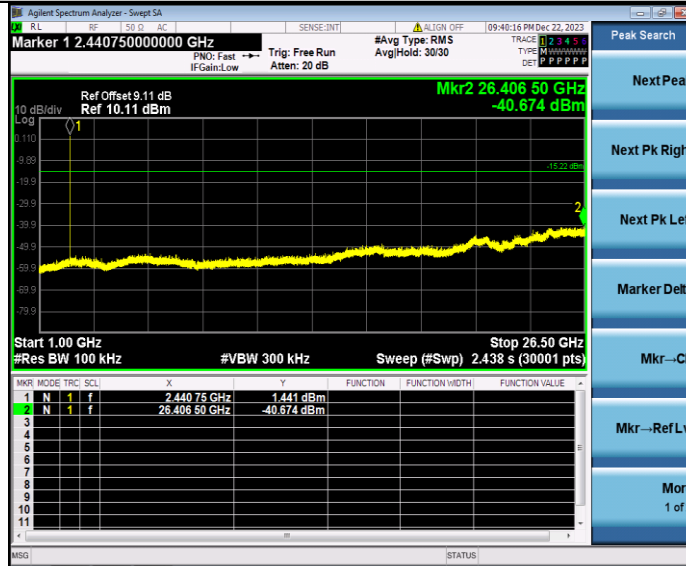
2DH5_Ant1_2402_1000~26500



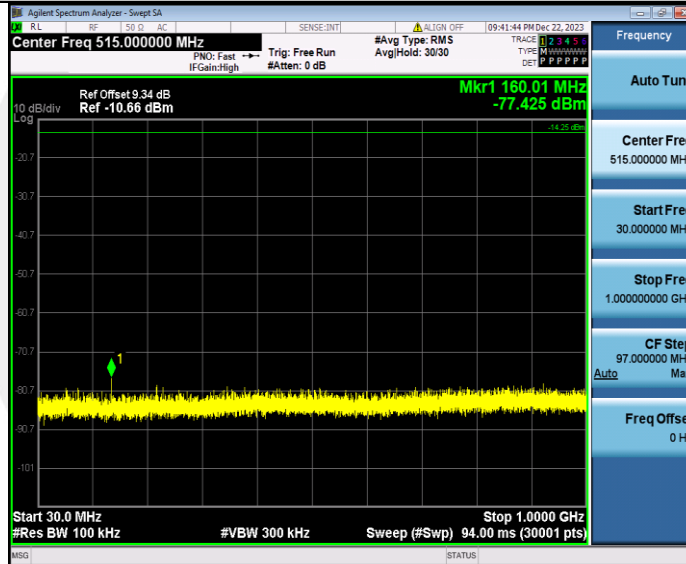
2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



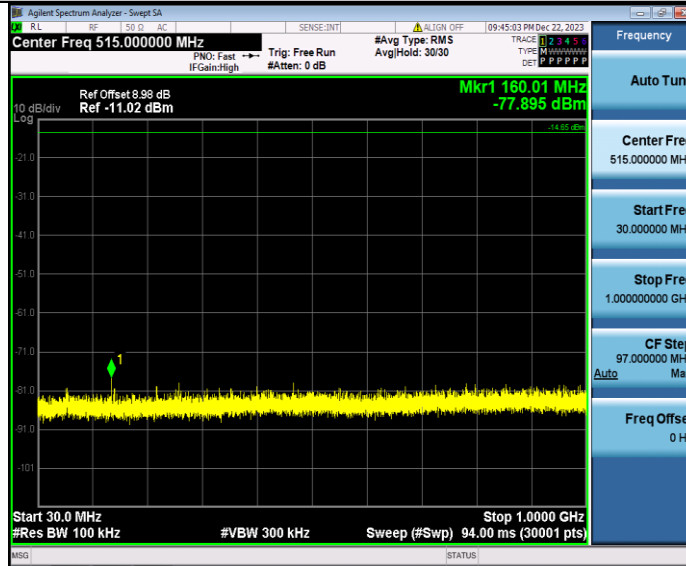
2DH5_Ant1_2480_30~1000



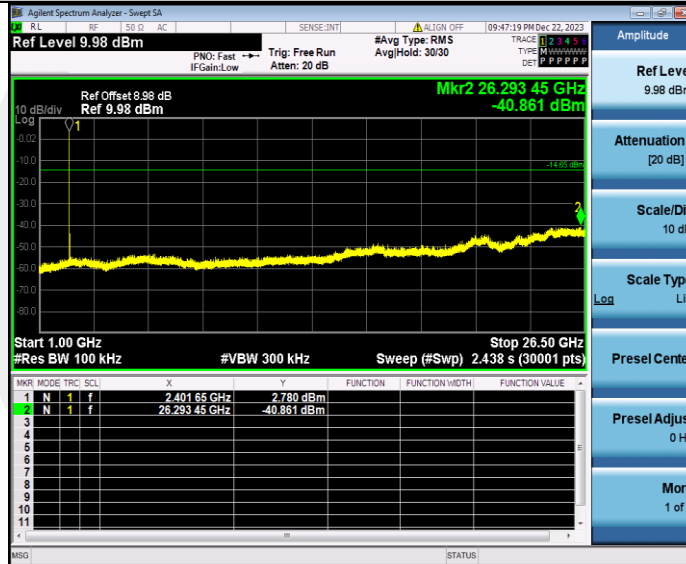
2DH5_Ant1_2480_1000~26500



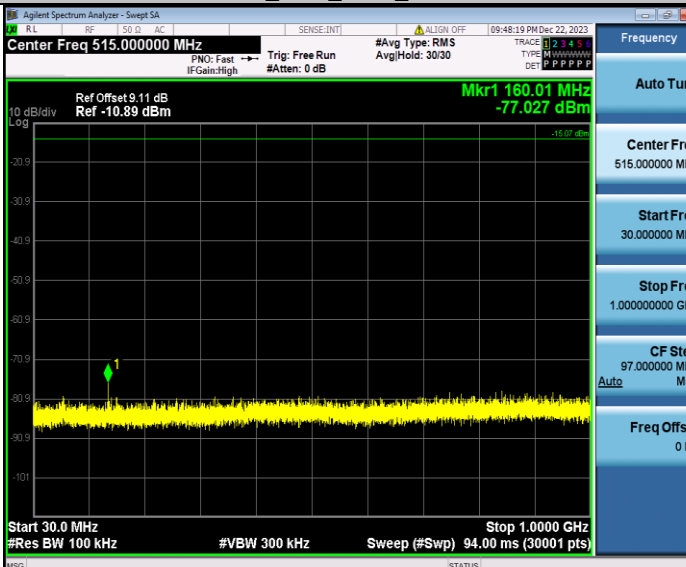
3DH5_Ant1_2402_30~1000



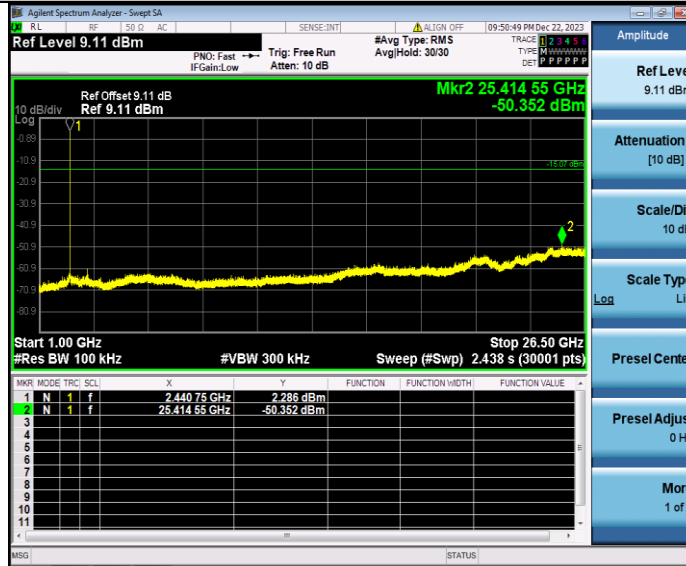
3DH5_Ant1_2402_1000~26500



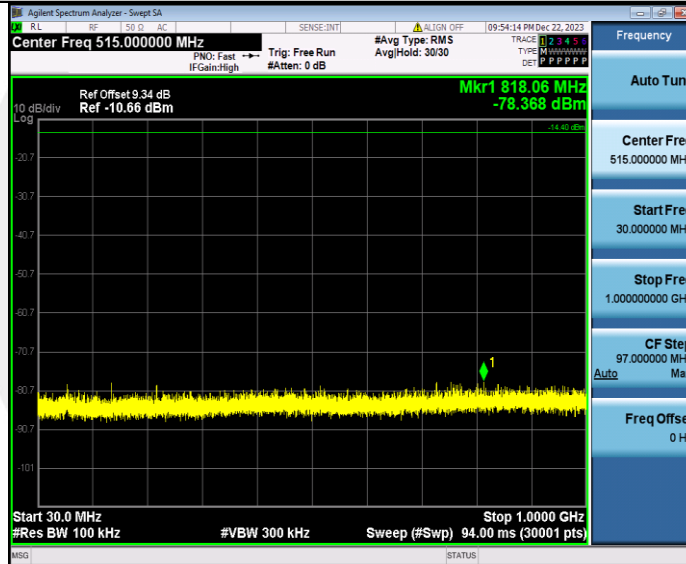
3DH5_Ant1_2441_30~1000



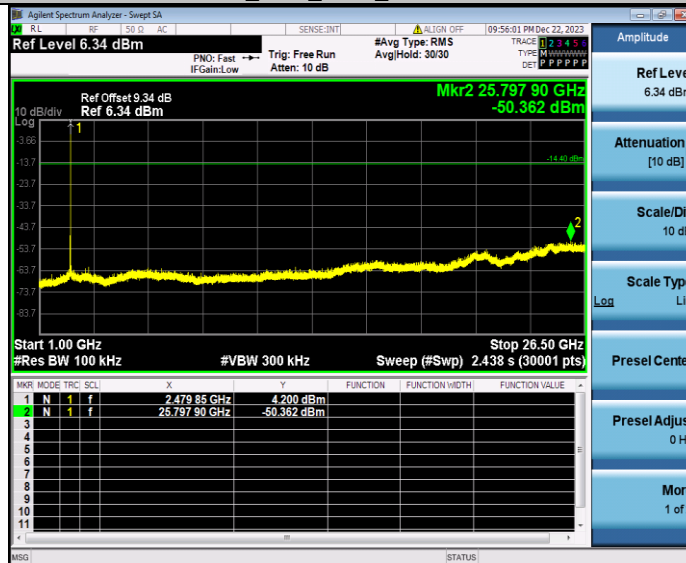
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



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 ($\mu\text{V}/\text{m}$)	Field Strength ($\text{dB}\mu\text{V}/\text{m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	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 \geq 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 ≥ 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 ≥ 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 ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 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:	22° C
Relative Humidity:	45%
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
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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:

Test mode: GFSK Frequency: Channel 0: 2402MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
11501.2	V	60.60	42.06	74.00	54.00	13.40	11.94
14563.1	V	62.90	43.66	74.00	54.00	11.10	10.34
17595	V	67.16	46.25	74.00	54.00	6.84	7.75
11503.1	H	60.51	41.92	74.00	54.00	13.49	12.08
14557.5	H	63.37	43.53	74.00	54.00	10.63	10.47
17606.2	H	67.88	46.05	74.00	54.00	6.12	7.95

Test mode: GFSK Frequency: Channel 39: 2441MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
11501.2	V	59.89	42.42	74.00	54.00	14.11	11.58
14617.5	V	62.24	44.46	74.00	54.00	11.76	9.54
17598.7	V	66.54	46.84	74.00	54.00	7.46	7.16
11456.2	H	59.71	41.73	74.00	54.00	14.29	12.27
14632.5	H	62.31	44.10	74.00	54.00	11.69	9.90
17964.3	H	66.86	43.35	74.00	54.00	7.14	10.65

Test mode: GFSK Frequency: Channel 78: 2480MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
11473.1	V	59.61	42.03	74.00	54.00	14.39	11.97
14641.85	V	62.56	44.37	74.00	54.00	11.44	9.63
17656.8	V	65.46	45.56	74.00	54.00	8.54	8.44
11304.3	H	59.33	41.48	74.00	54.00	14.67	12.52
15148.1	H	62.68	41.17	74.00	54.00	11.32	12.83
17628.7	H	67.20	45.53	74.00	54.00	6.80	8.47

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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

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

Test mode: GFSK Frequency: Channel 0: 2402MHz

Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2389.25	H	44.65	74.00	54.00	54.00
2389.19	V	44.53	74.00	34.34	54.00

Test mode: GFSK Frequency: Channel 78: 2480MHz

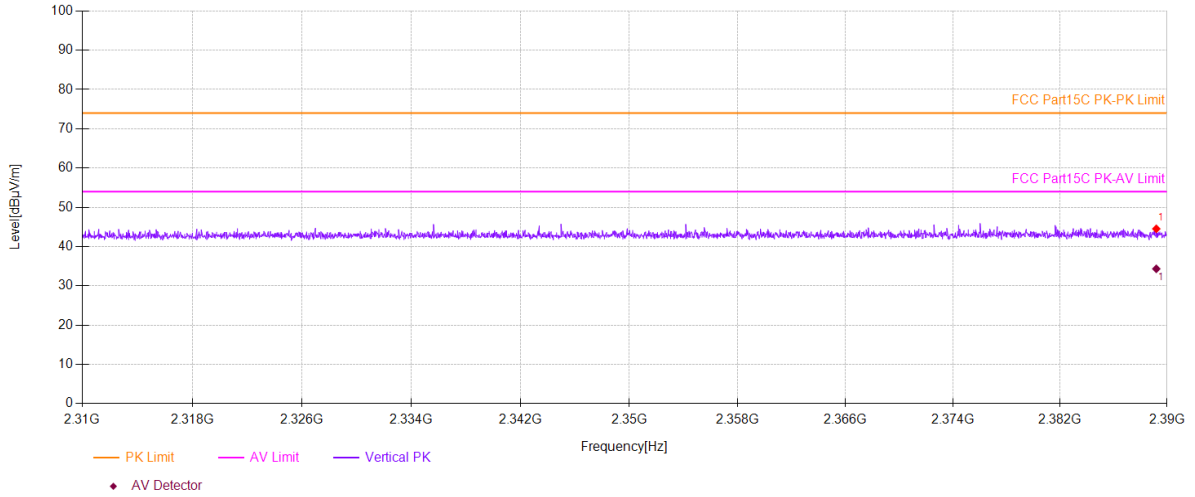
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2484.70	H	48.29	74.00	36.26	54.00
2484.32	V	45.33	74.00	34.16	54.00

Test mode: GFSK Frequency: Hopping

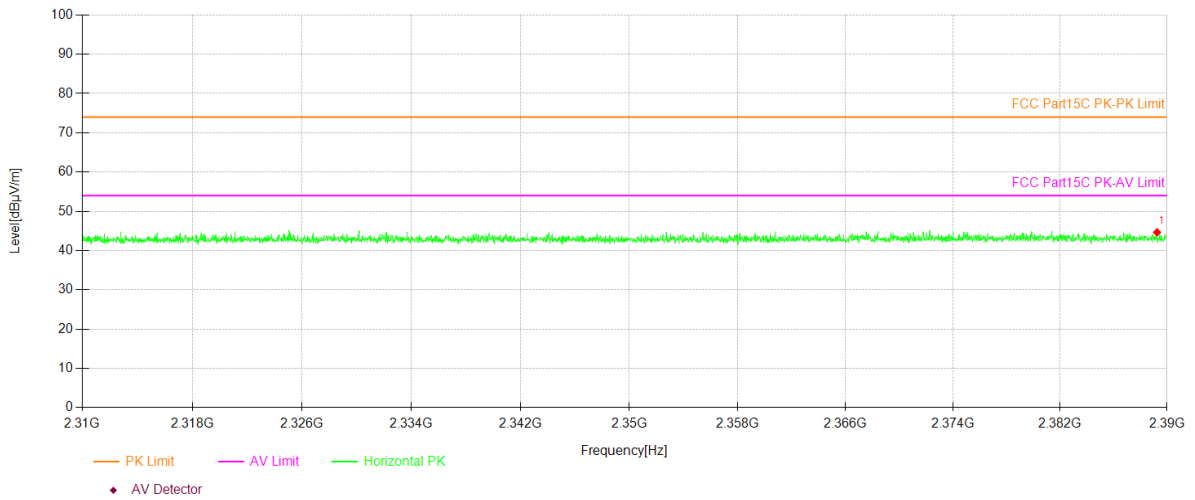
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2400.00	H	53.12	74.00	37.51	54.00
2483.50	H	33.44	74.00	31.18	54.00
2400.00	V	40.60	74.00	34.05	54.00
2483.50	V	32.16	74.00	31.22	54.00

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

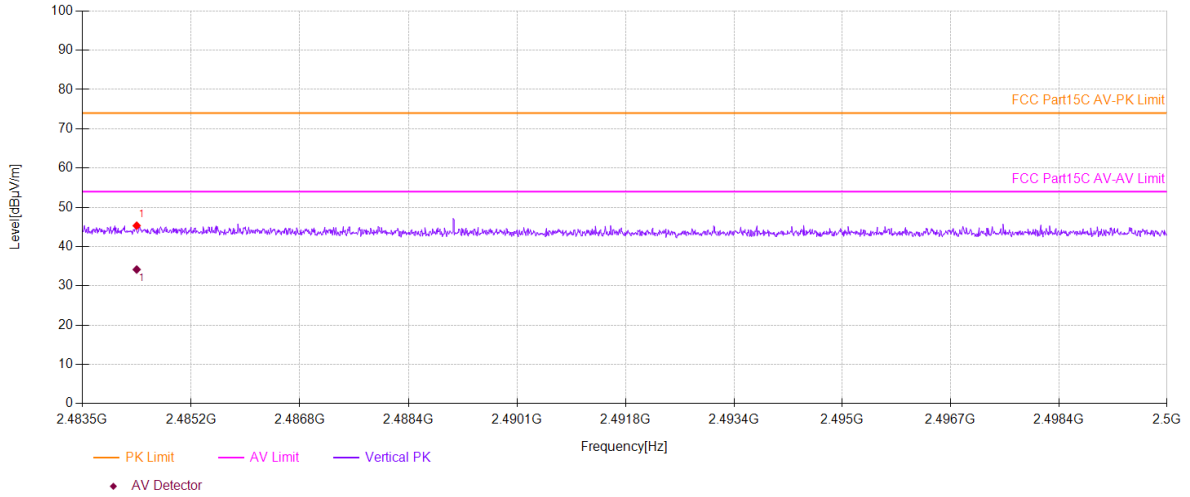
Test Model **Spurious Emission in Restricted Band 2310-2390MHz**
Channel 0: 2402MHz **GFSK** **V**



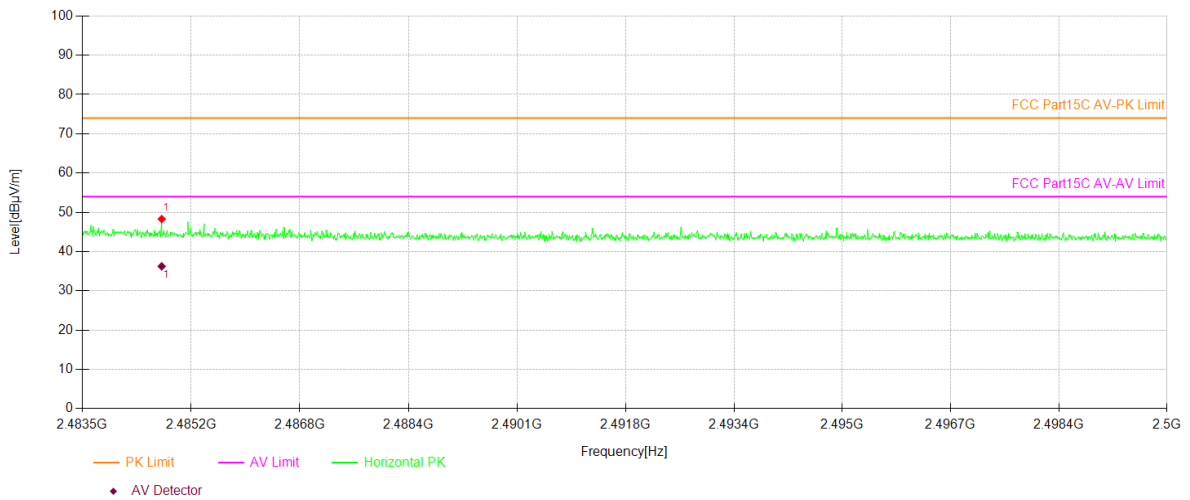
Test Model **Spurious Emission in Restricted Band 2310-2390MHz**
Channel 0: 2402MHz **GFSK** **H**



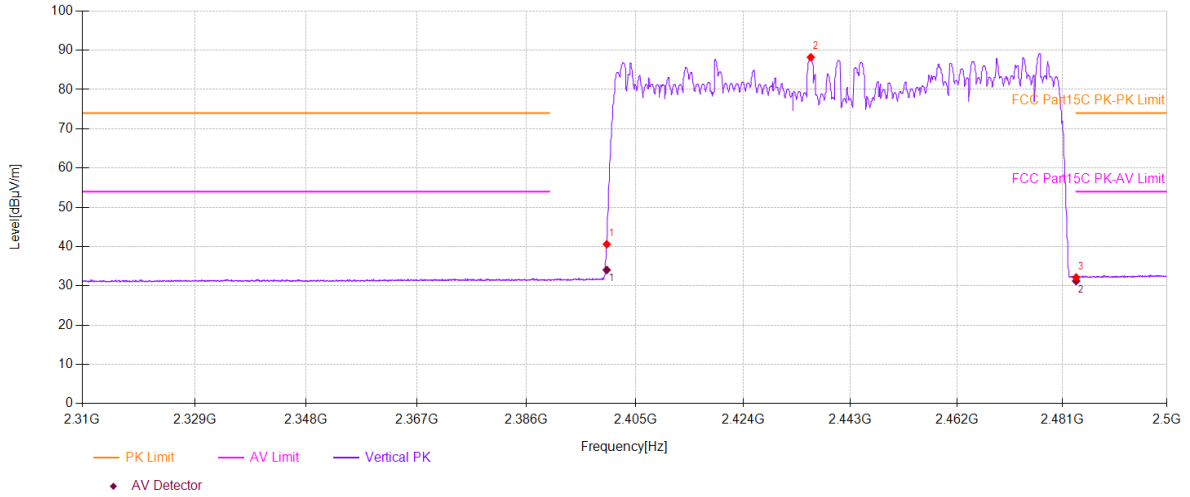
Test Model **Spurious Emission in Restricted Band 2483.5-2500MHz**
Channel 78: 2480MHz **GFSK** **V**



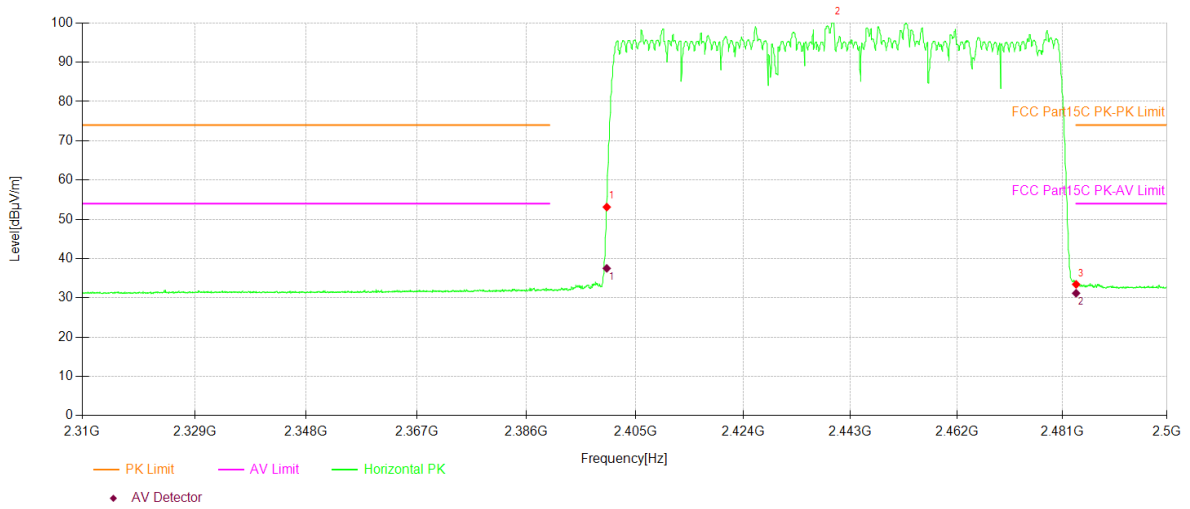
Test Model **Spurious Emission in Restricted Band 2483.5-2500MHz**
Channel 78: 2480MHz **GFSK** **H**



Test Model Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Hopping GFSK V

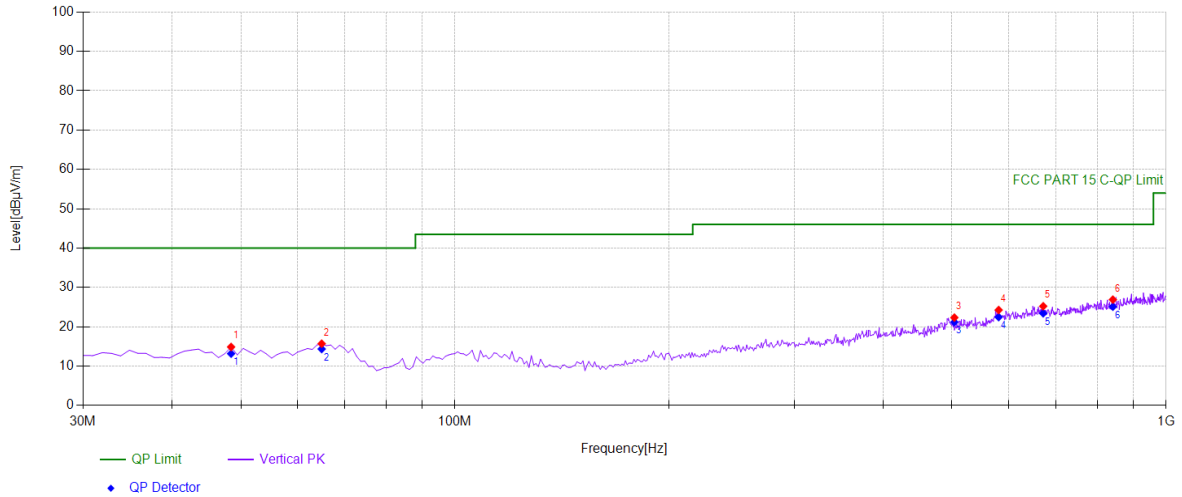


Test Model Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Hopping GFSK H



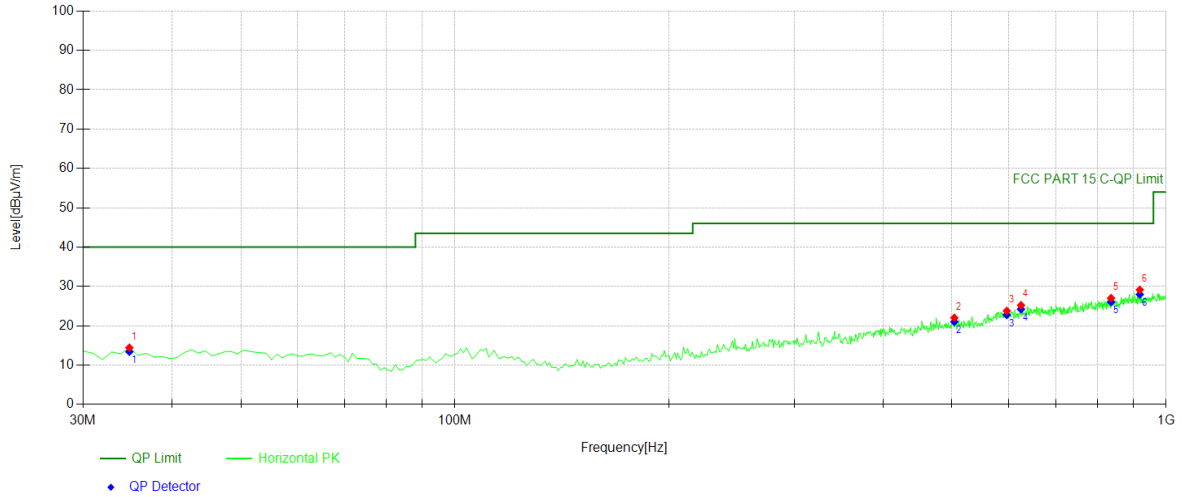
- Spurious Emission below 1GHz(30MHz to 1GHz)
- All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) result recorded was report as below:

Mode:	BT 2402
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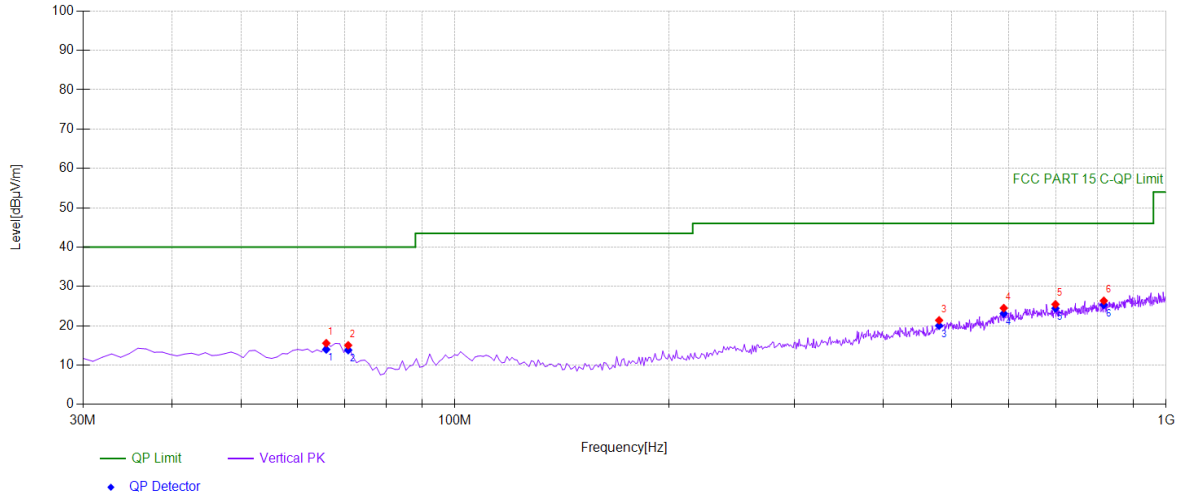
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	48.4484	32.19	-17.32	14.87	PK	40.00	25.13	Vertical
2	64.955	34.95	-19.25	15.70	PK	40.00	24.30	Vertical
3	503.833	32.11	-9.77	22.34	PK	46.00	23.66	Vertical
4	581.511	31.40	-7.14	24.26	PK	46.00	21.74	Vertical
5	671.811	31.37	-6.14	25.23	PK	46.00	20.77	Vertical
6	841.731	30.75	-3.85	26.90	PK	46.00	19.10	Vertical

Mode:	BT 2402
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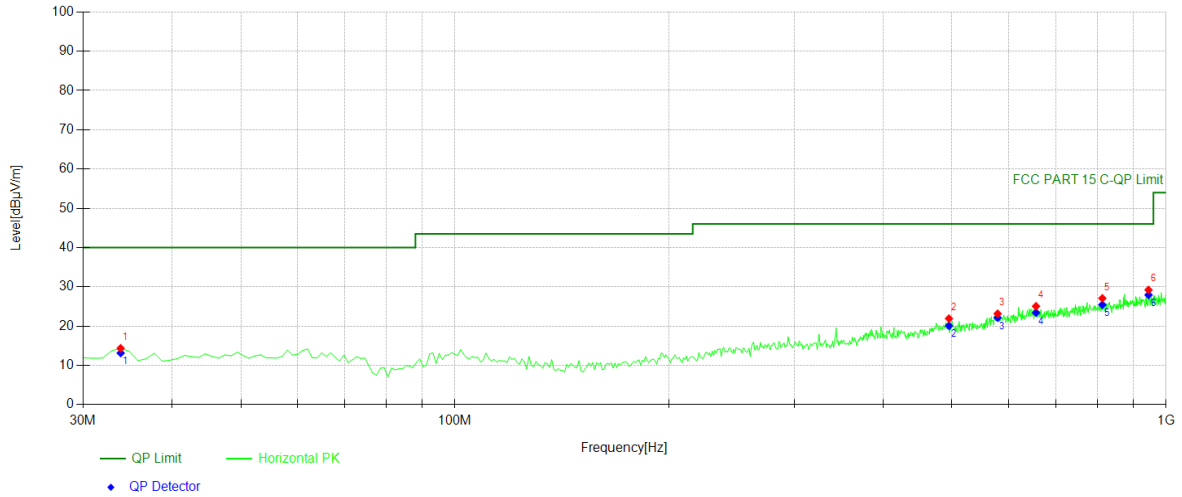
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	34.8549	32.66	-18.23	14.43	PK	40.00	25.57	Horizontal
2	503.833	31.80	-9.77	22.03	PK	46.00	23.97	Horizontal
3	597.047	30.92	-7.14	23.78	PK	46.00	22.22	Horizontal
4	625.205	32.14	-6.92	25.22	PK	46.00	20.78	Horizontal
5	836.876	30.98	-3.94	27.04	PK	46.00	18.96	Horizontal
6	918.438	32.01	-2.86	29.15	PK	46.00	16.85	Horizontal

Mode:	BT 2441
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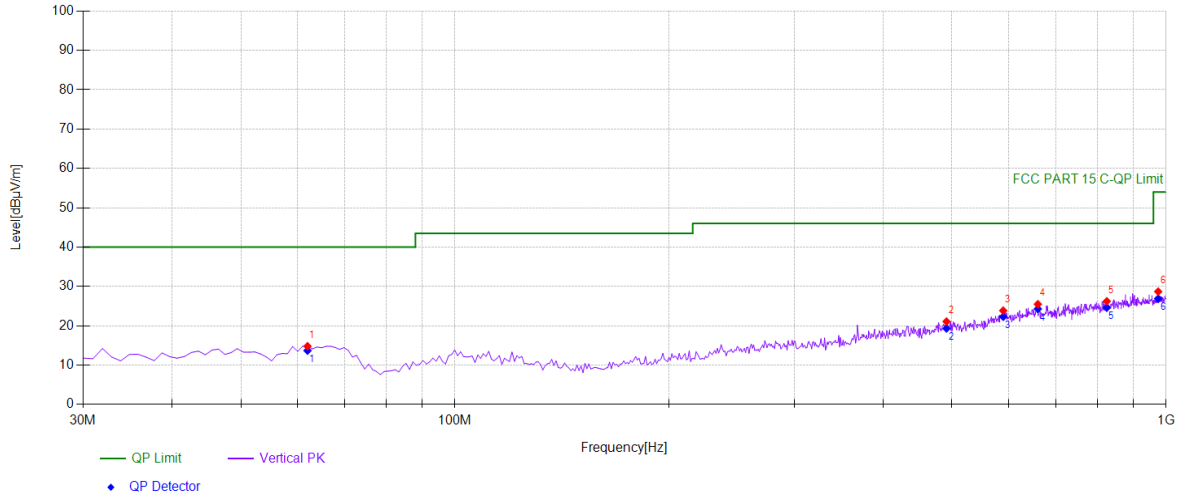
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	65.9259	34.96	-19.39	15.57	PK	40.00	24.43	Vertical
2	70.7808	35.12	-20.08	15.04	PK	40.00	24.96	Vertical
3	479.559	31.21	-9.81	21.40	PK	46.00	24.60	Vertical
4	591.221	31.64	-7.14	24.50	PK	46.00	21.50	Vertical
5	698.999	31.41	-5.95	25.46	PK	46.00	20.54	Vertical
6	817.457	30.65	-4.30	26.35	PK	46.00	19.65	Vertical

Mode:	BT 2441
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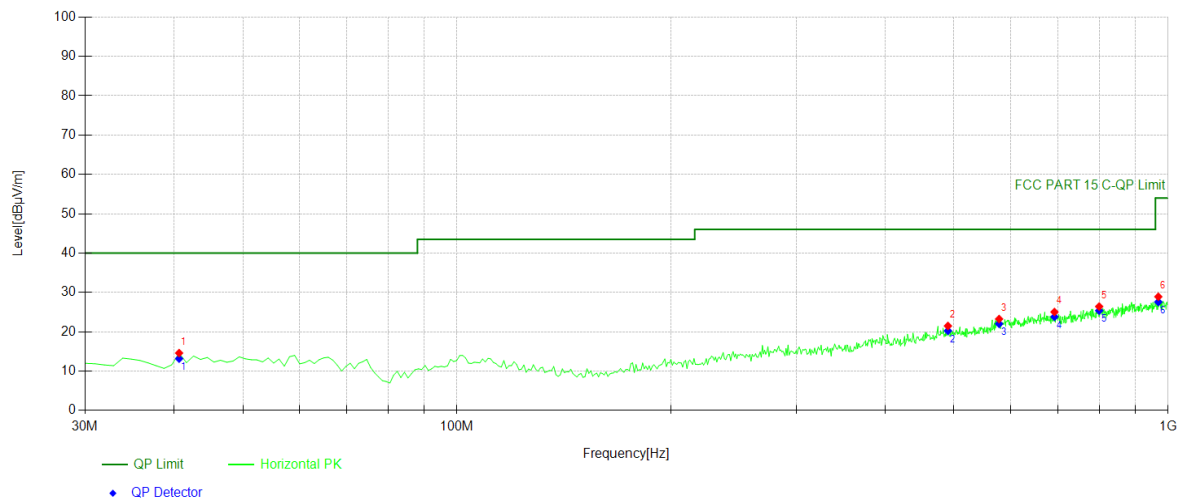
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	32.65	-18.29	14.36	PK	40.00	25.64	Horizontal
2	495.095	31.71	-9.78	21.93	PK	46.00	24.07	Horizontal
3	579.569	30.34	-7.18	23.16	PK	46.00	22.84	Horizontal
4	656.276	31.22	-6.16	25.06	PK	46.00	20.94	Horizontal
5	813.573	31.41	-4.32	27.09	PK	46.00	18.91	Horizontal
6	944.654	31.62	-2.39	29.23	PK	46.00	16.77	Horizontal

Mode:	BT 2480
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	62.042	33.65	-18.84	14.81	PK	40.00	25.19	Vertical
2	491.211	30.88	-9.80	21.08	PK	46.00	24.92	Vertical
3	590.250	30.99	-7.14	23.85	PK	46.00	22.15	Vertical
4	660.160	31.62	-6.13	25.49	PK	46.00	20.51	Vertical
5	825.225	30.44	-4.21	26.23	PK	46.00	19.77	Vertical
6	974.754	30.61	-1.91	28.70	PK	54.00	25.30	Vertical

Mode:	BT 2480
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	40.6807	32.46	-17.86	14.60	PK	40.00	25.40	Horizontal
2	490.240	31.28	-9.80	21.48	PK	46.00	24.52	Horizontal
3	578.598	30.52	-7.27	23.25	PK	46.00	22.75	Horizontal
4	692.202	31.05	-6.01	25.04	PK	46.00	20.96	Horizontal
5	799.98	30.84	-4.42	26.42	PK	46.00	19.58	Horizontal
6	968.928	30.97	-2.06	28.91	PK	54.00	25.09	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

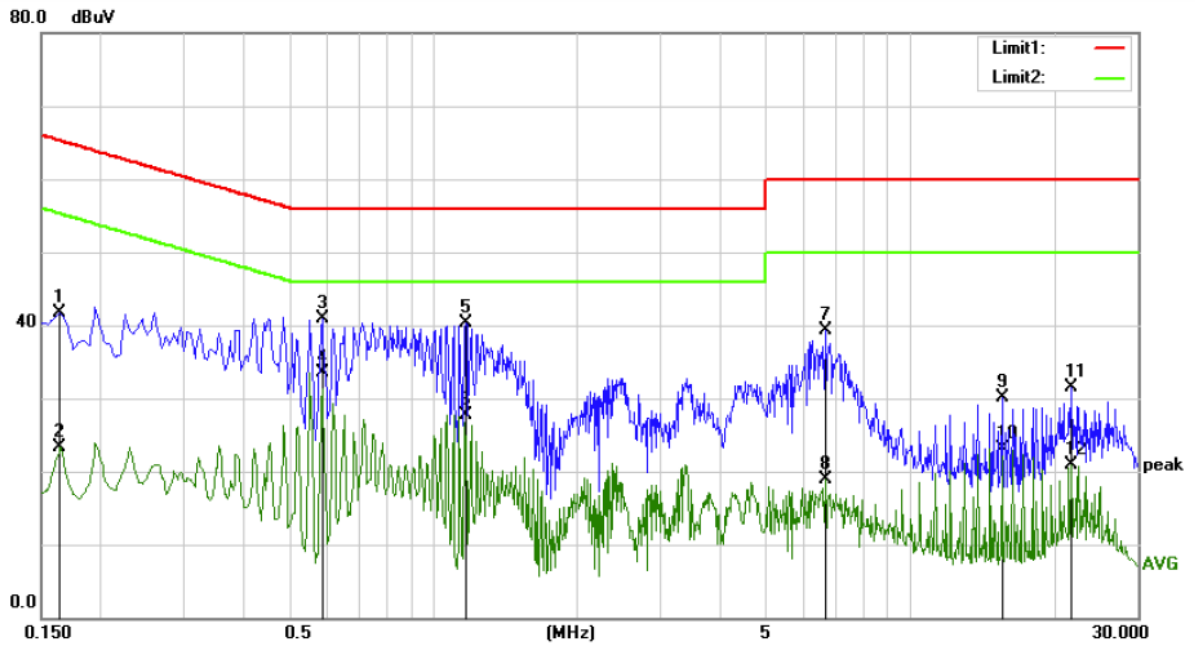
Test according to clause 7.3 conducted emission test setup

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



Site Conduction #1

Phase: **N**

Temperature: 21.9

Limit: (CE)FCC PART 15 class B_QP

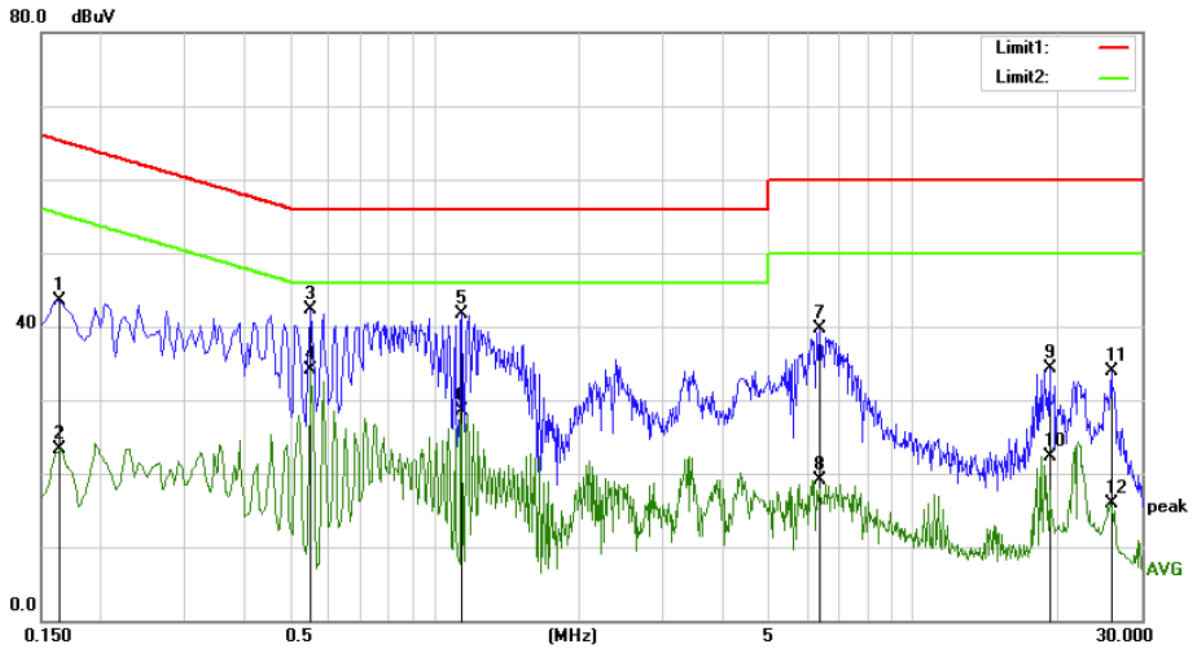
Power: AC 120V/60Hz

Humidity: 58 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	32.23	9.54	41.77	65.21	-23.44	QP	
2		0.1650	13.76	9.54	23.30	55.21	-31.91	AVG	
3		0.5850	31.34	9.53	40.87	56.00	-15.13	QP	
4	*	0.5850	23.92	9.53	33.45	46.00	-12.55	AVG	
5		1.1700	30.79	9.55	40.34	56.00	-15.66	QP	
6		1.1700	18.21	9.55	27.76	46.00	-18.24	AVG	
7		6.6550	29.62	9.61	39.23	60.00	-20.77	QP	
8		6.6550	9.31	9.61	18.92	50.00	-31.08	AVG	
9		15.5550	20.34	9.82	30.16	60.00	-29.84	QP	
10		15.5550	13.38	9.82	23.20	50.00	-26.80	AVG	
11		21.7800	21.62	9.95	31.57	60.00	-28.43	QP	
12		21.7800	10.91	9.95	20.86	50.00	-29.14	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 21.9

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 58 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	34.00	9.54	43.54	65.21	-21.67	QP	
2		0.1650	13.79	9.54	23.33	55.21	-31.88	AVG	
3		0.5500	32.69	9.53	42.22	56.00	-13.78	QP	
4	*	0.5500	24.66	9.53	34.19	46.00	-11.81	AVG	
5		1.1400	32.17	9.55	41.72	56.00	-14.28	QP	
6		1.1400	18.96	9.55	28.51	46.00	-17.49	AVG	
7		6.3800	30.02	9.60	39.62	60.00	-20.38	QP	
8		6.3800	9.48	9.60	19.08	50.00	-30.92	AVG	
9		19.2300	24.42	9.87	34.29	60.00	-25.71	QP	
10		19.2300	12.41	9.87	22.28	50.00	-27.72	AVG	
11		25.9300	23.72	10.13	33.85	60.00	-26.15	QP	
12		25.9300	5.75	10.13	15.88	50.00	-34.12	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 ***