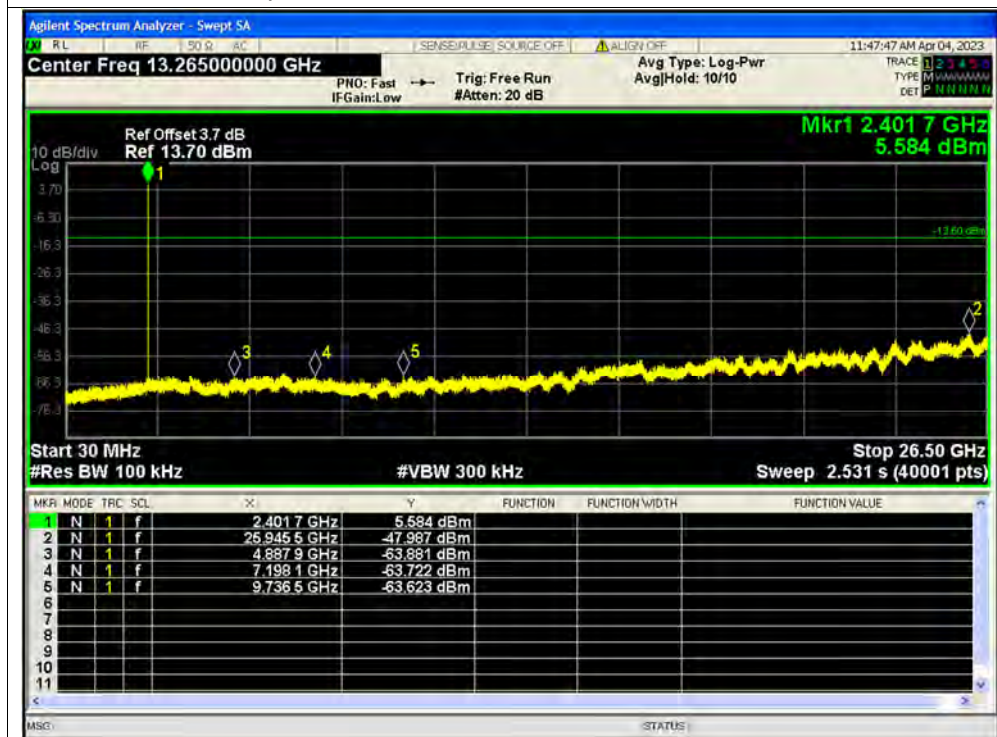


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



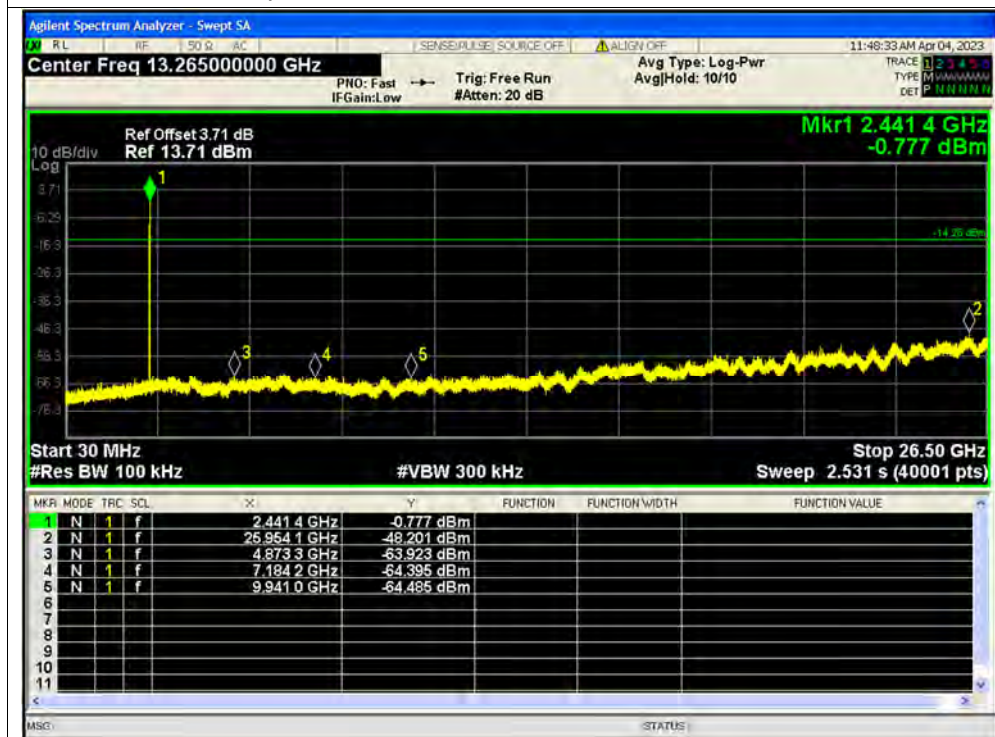
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



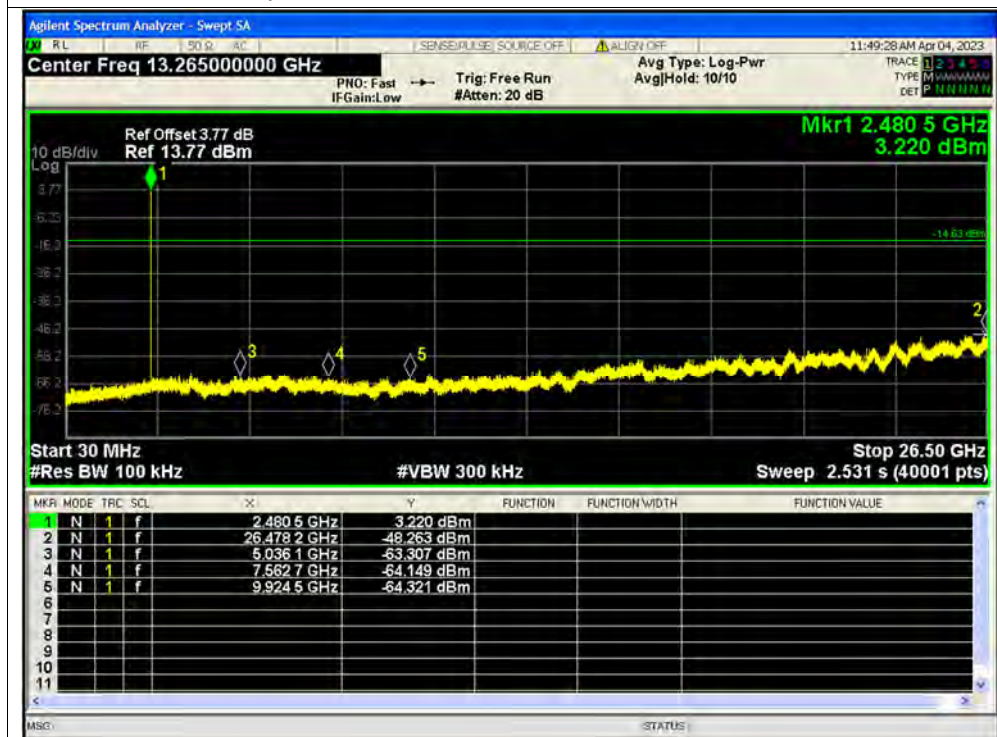
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



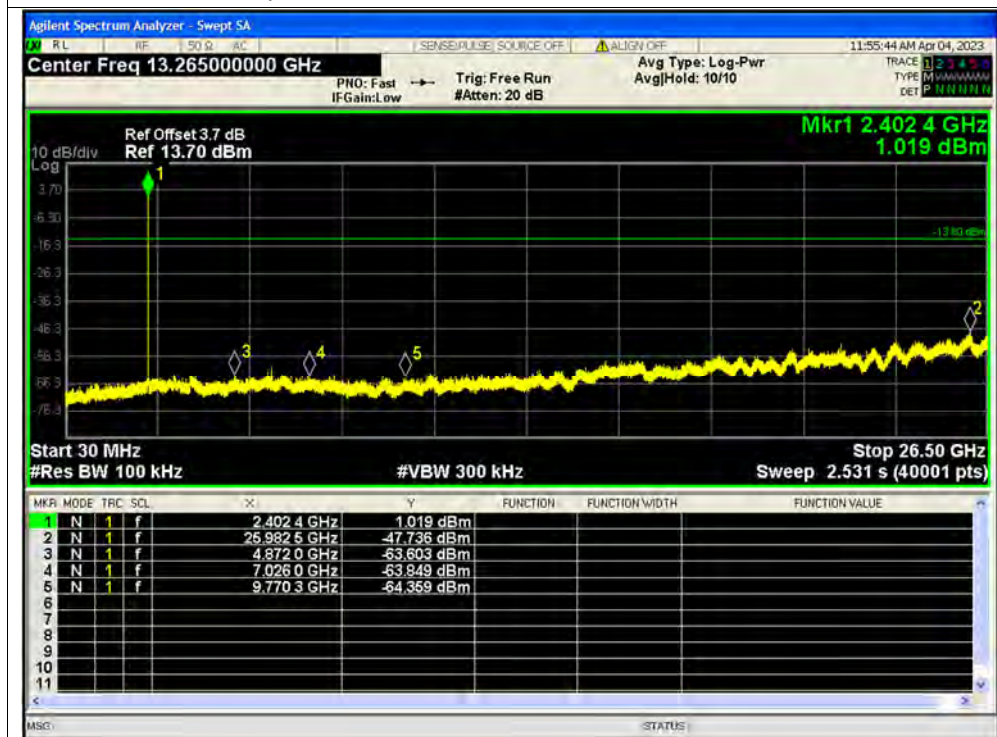
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



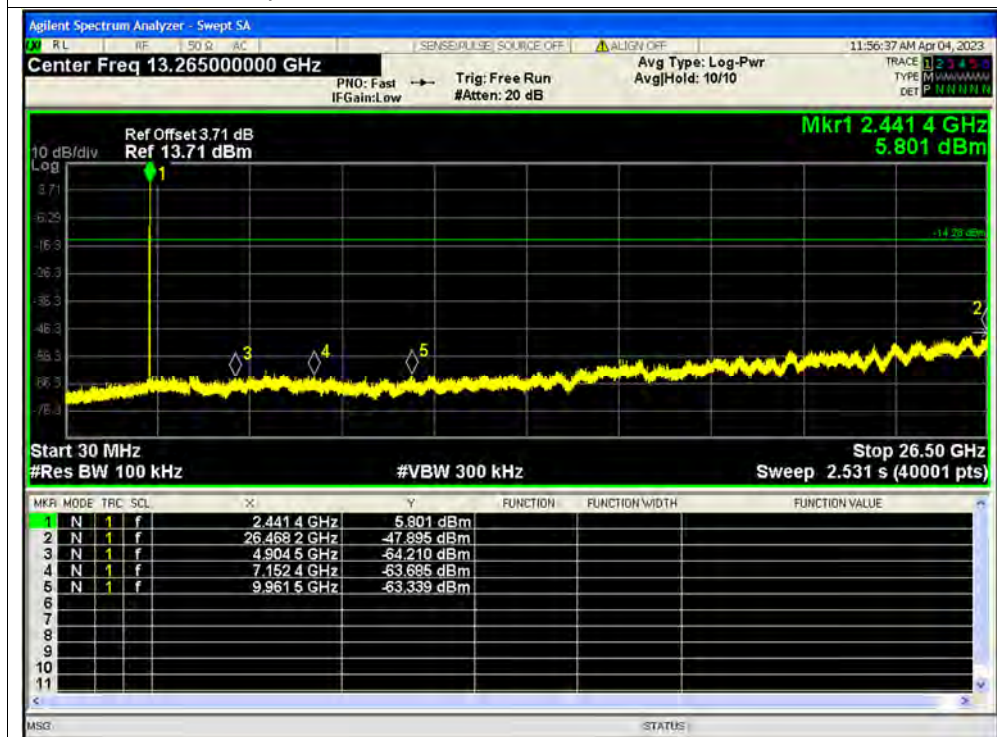
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



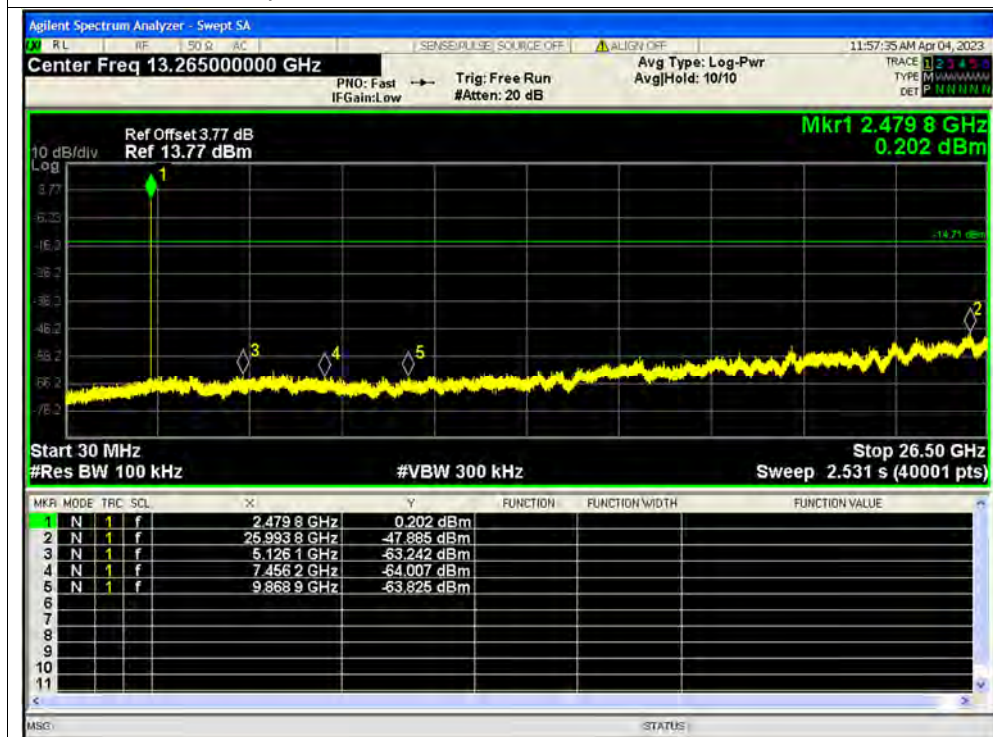
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



**A.9. Band Edge****Left**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.89	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-62.52	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.14	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.55	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-59.05	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-62.95	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-62.67	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-62.65	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-61.39	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-60.55	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-61.84	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-61.39	-20	Pass

Right

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.06	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.1	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-60.59	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.7	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-59.65	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.05	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-60.3	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.14	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.73	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.12	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.65	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.86	-20	Pass

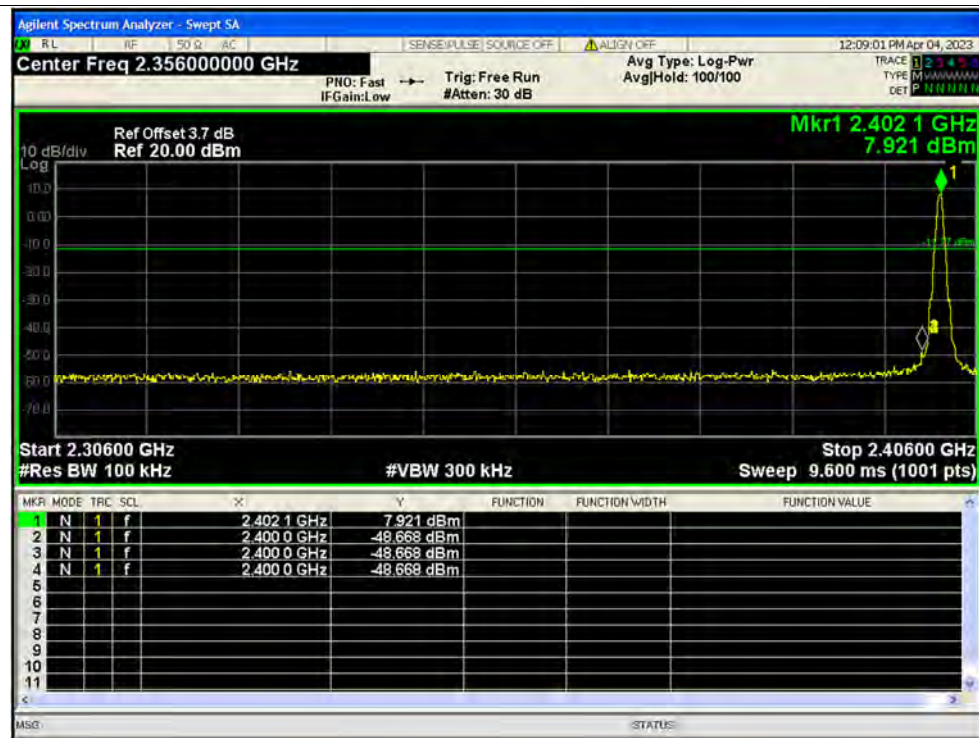
Left

Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



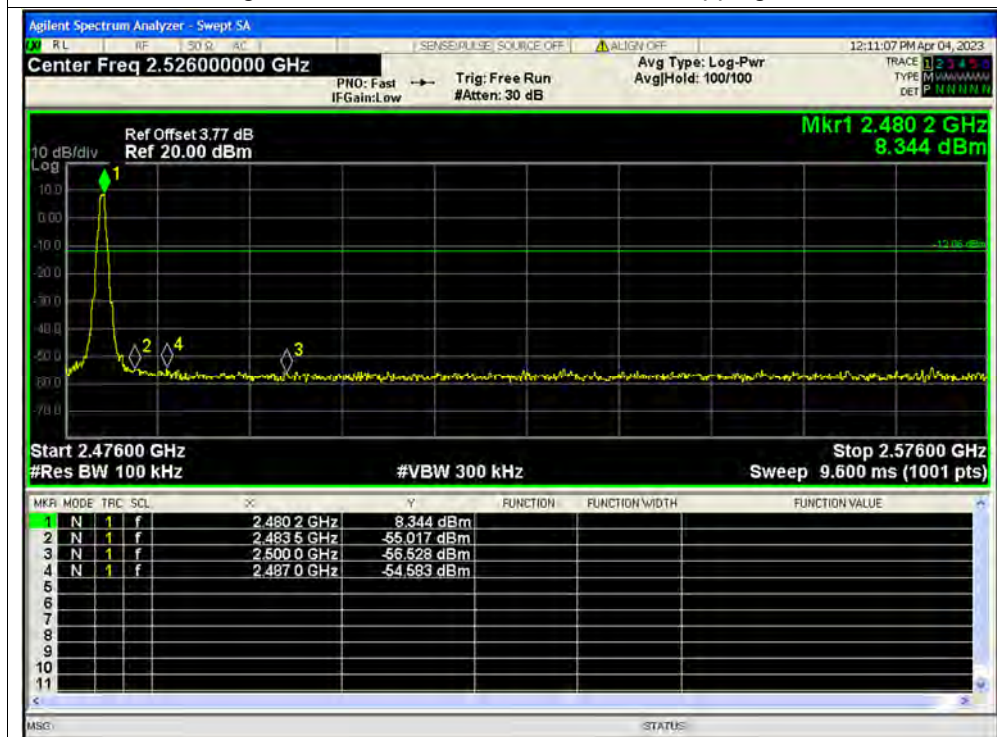
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



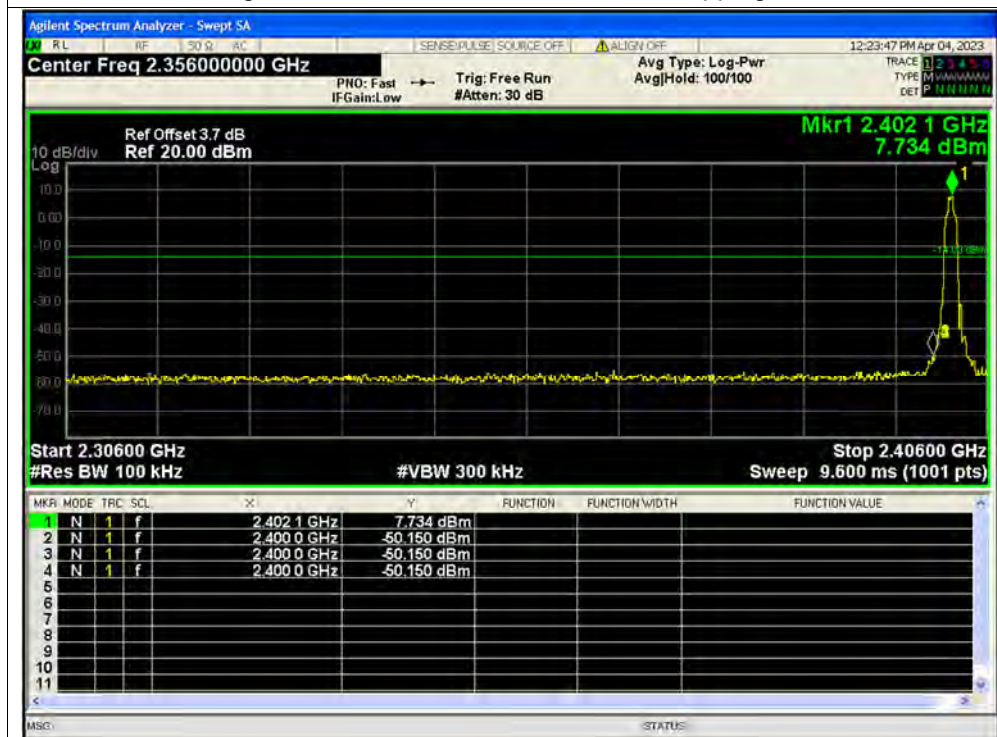
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



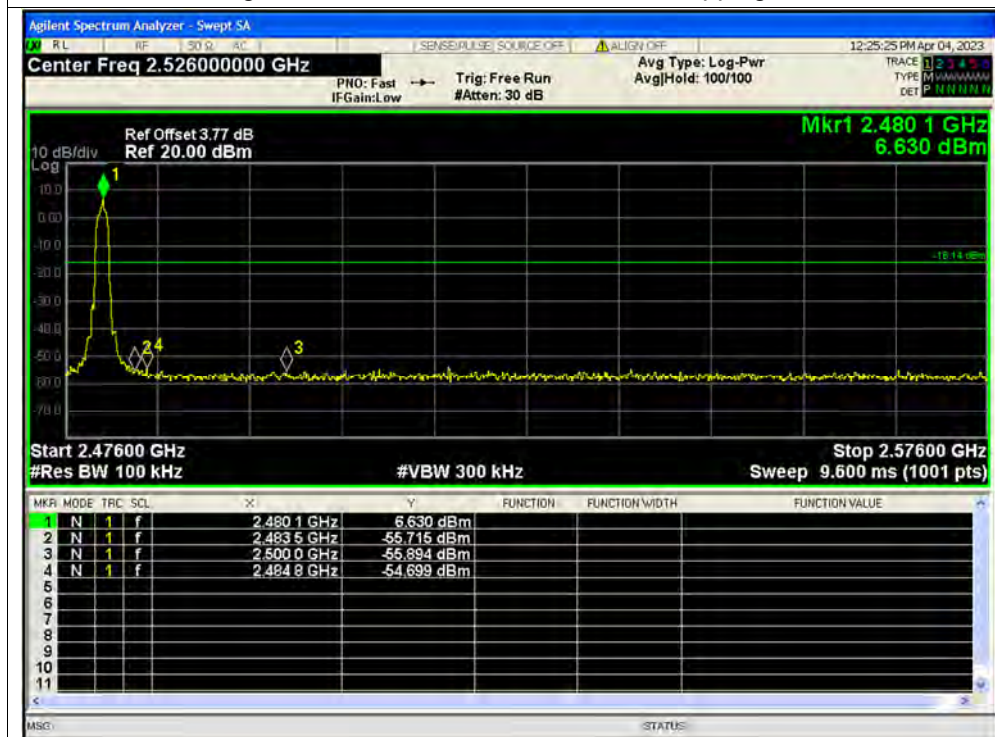
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



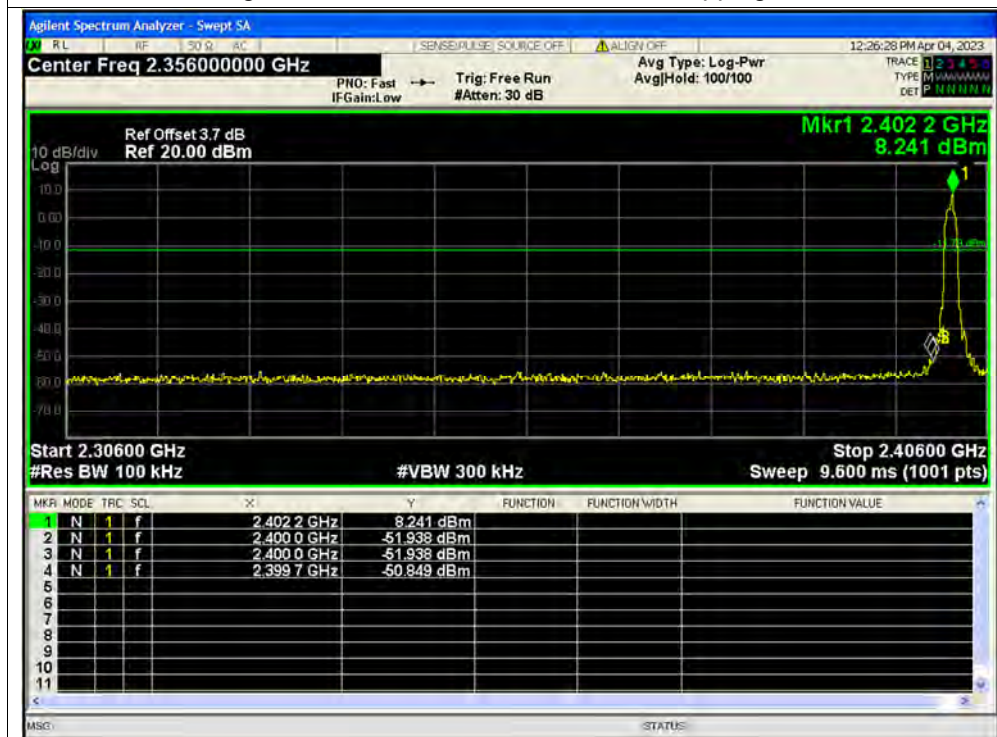
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



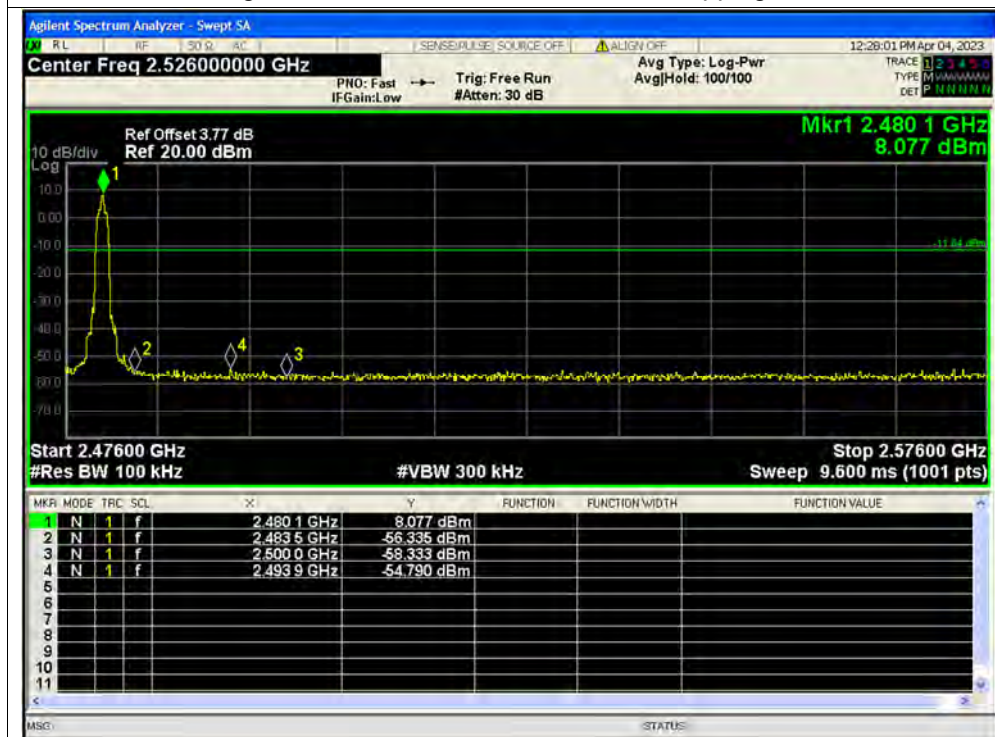
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



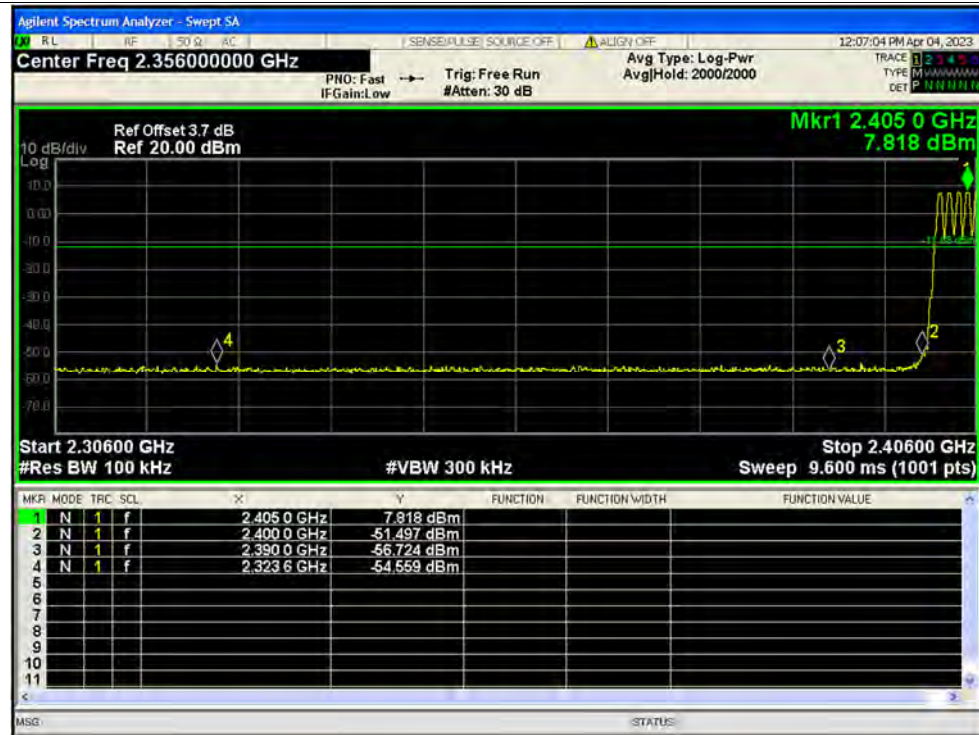
Left

Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



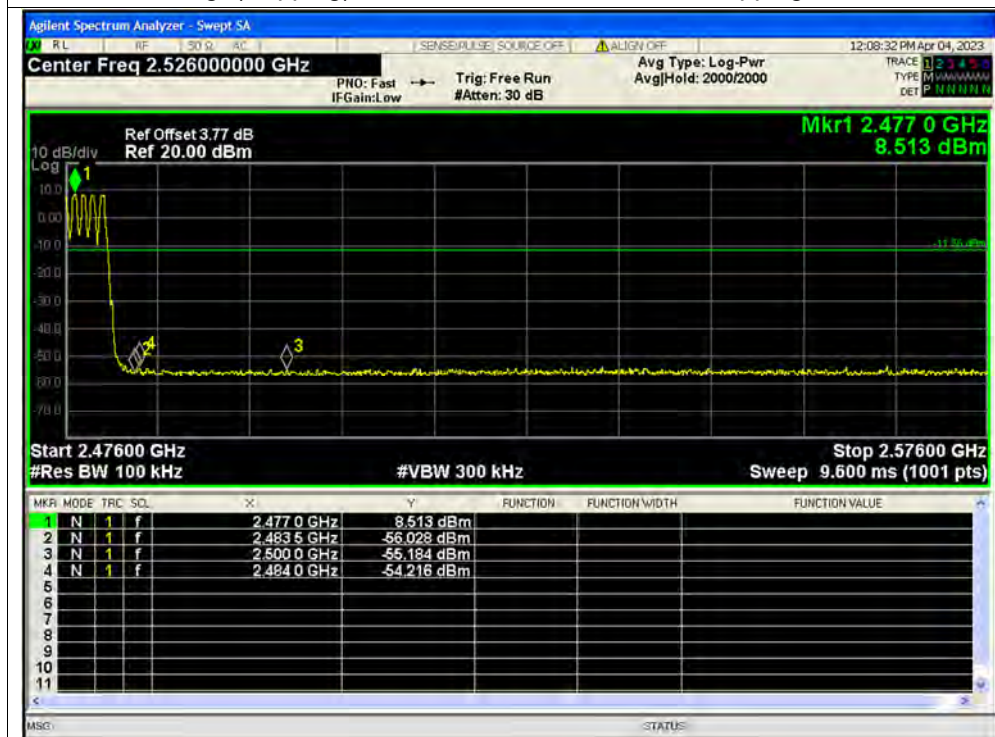
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



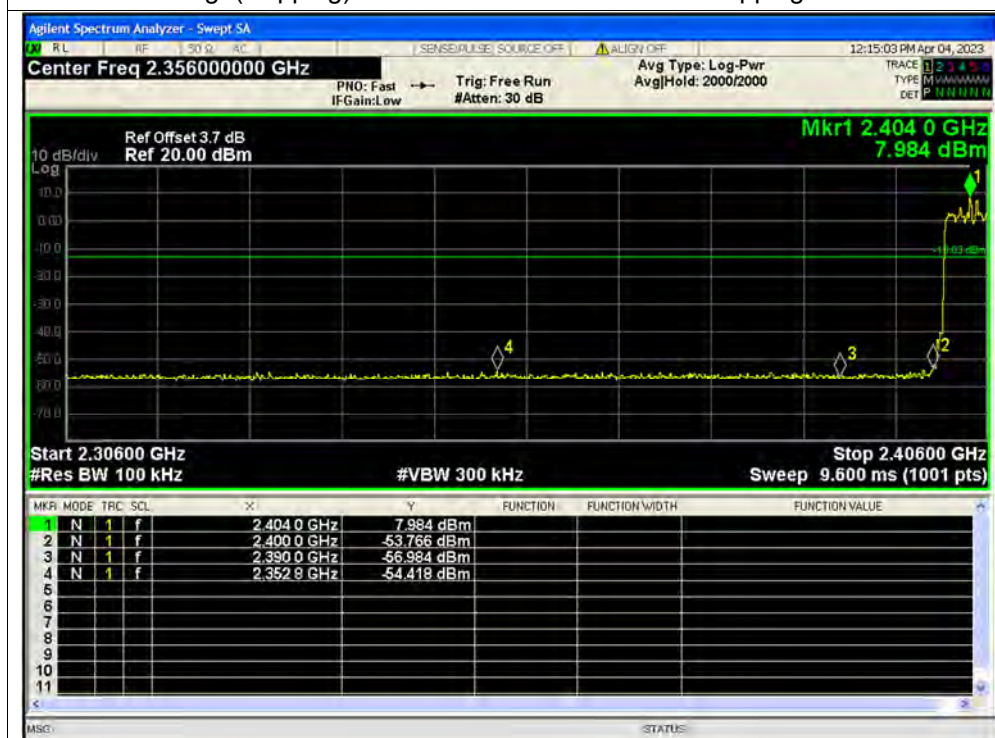
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



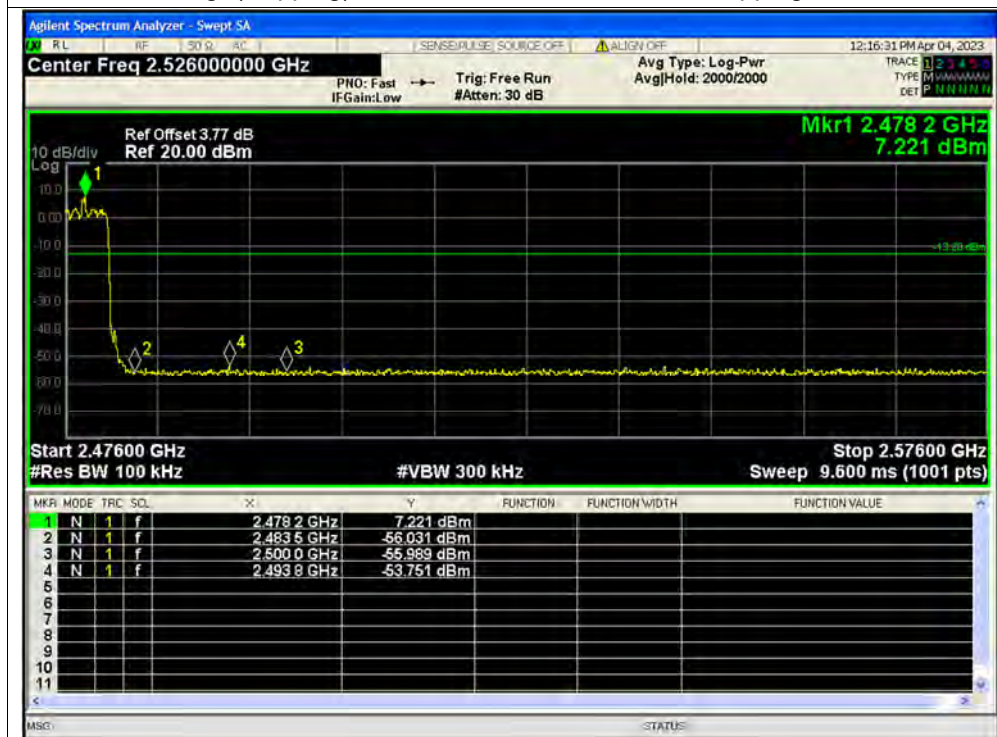
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

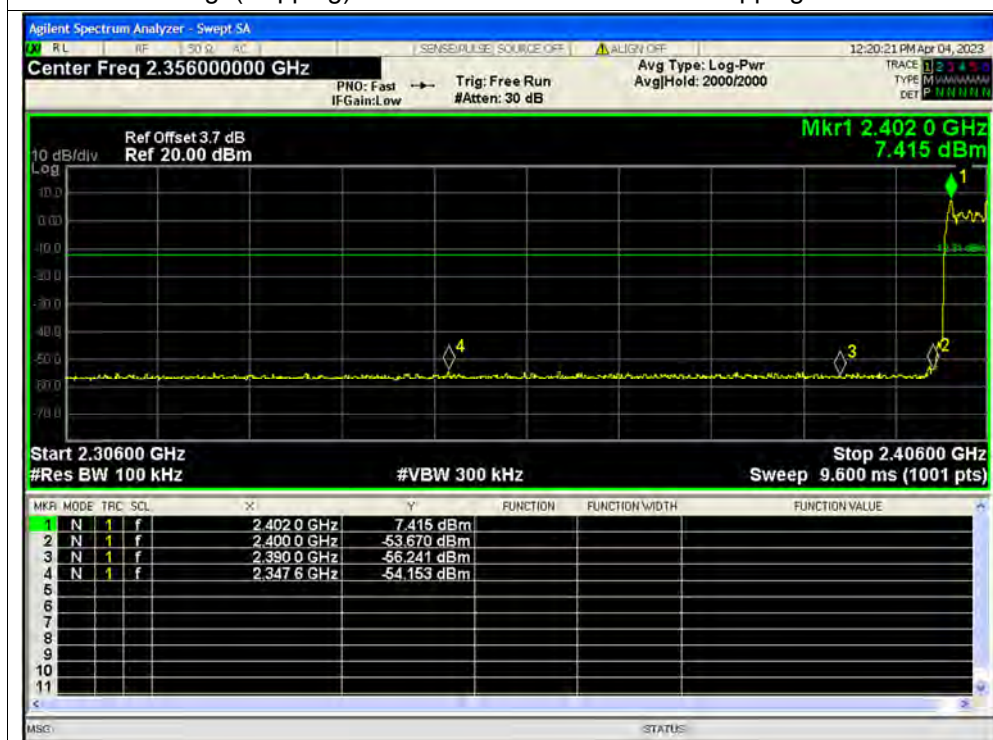




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



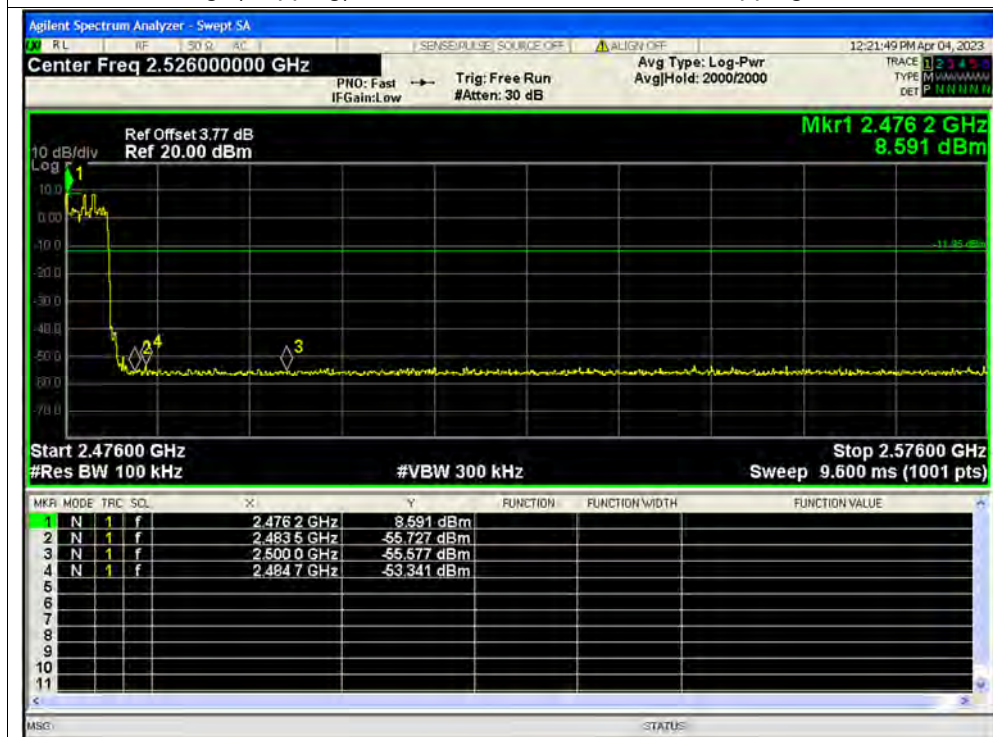
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



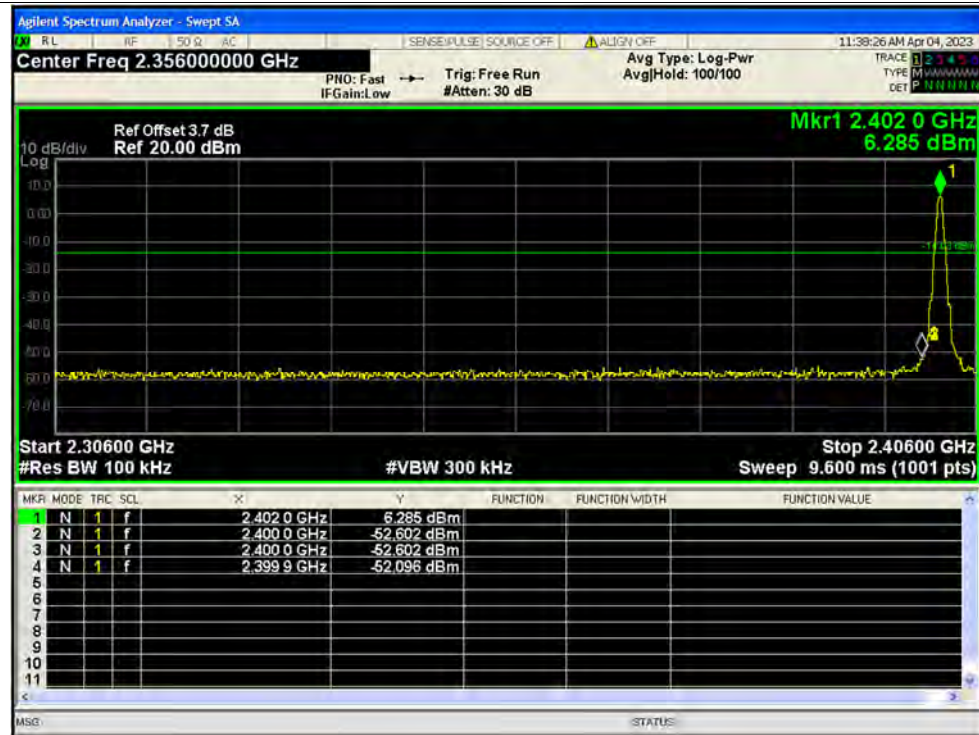
Right

Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



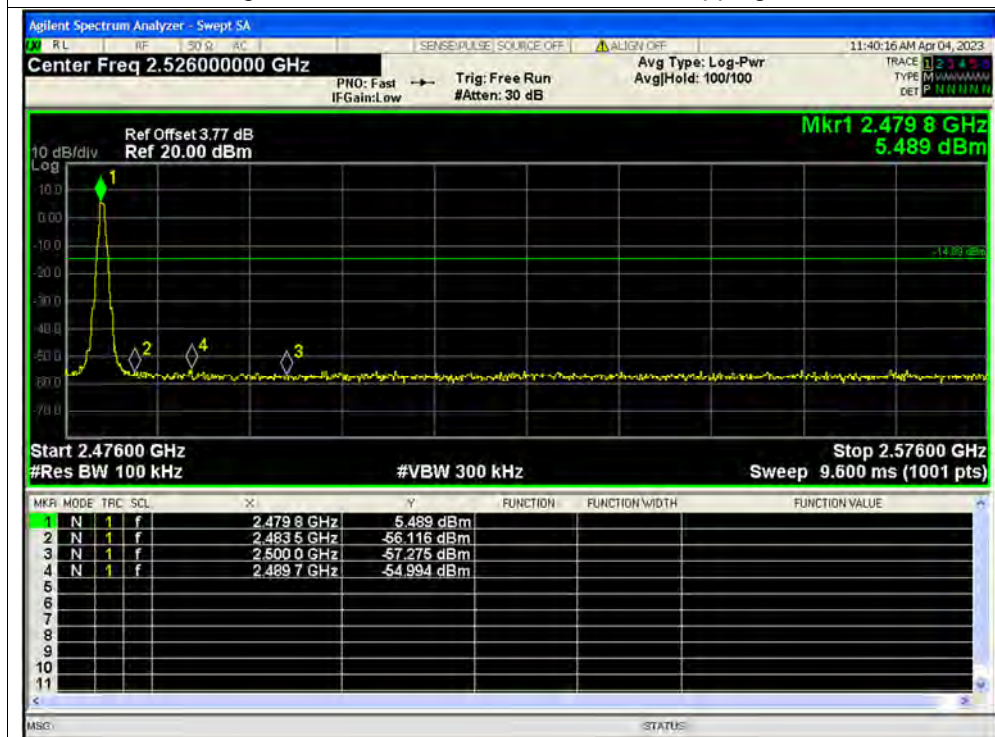
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

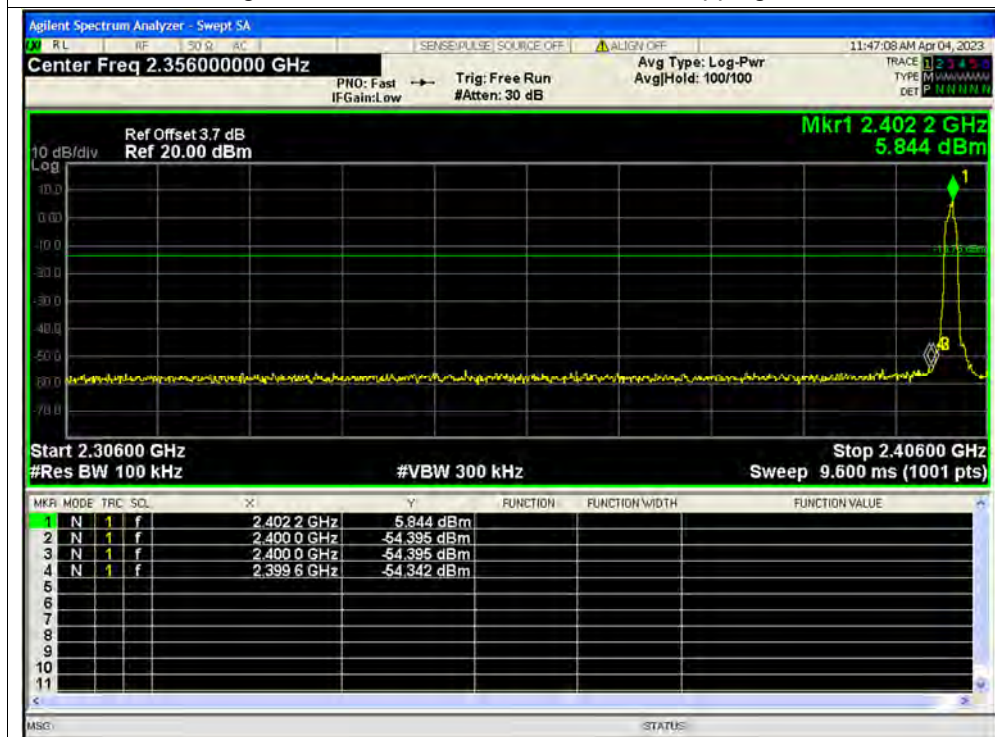




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



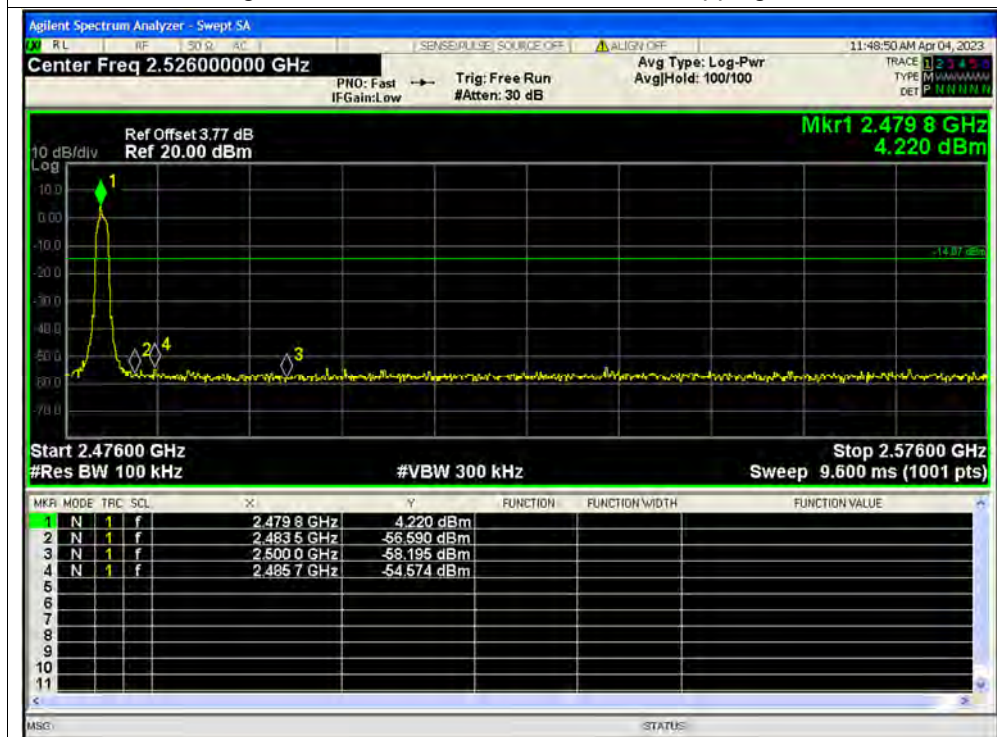
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



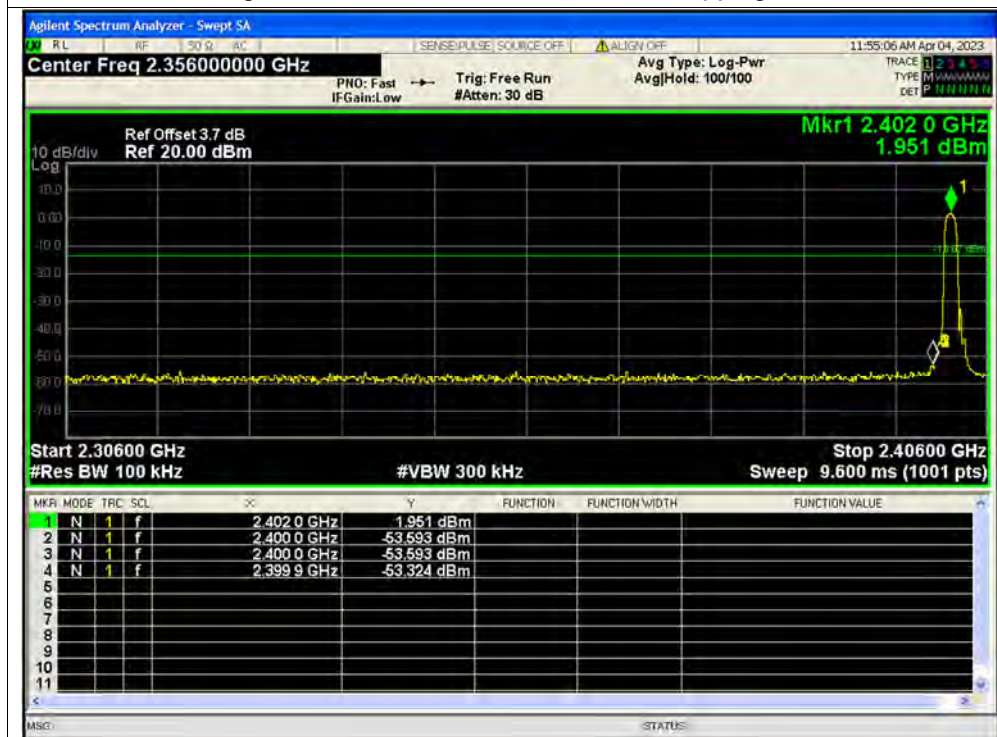
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



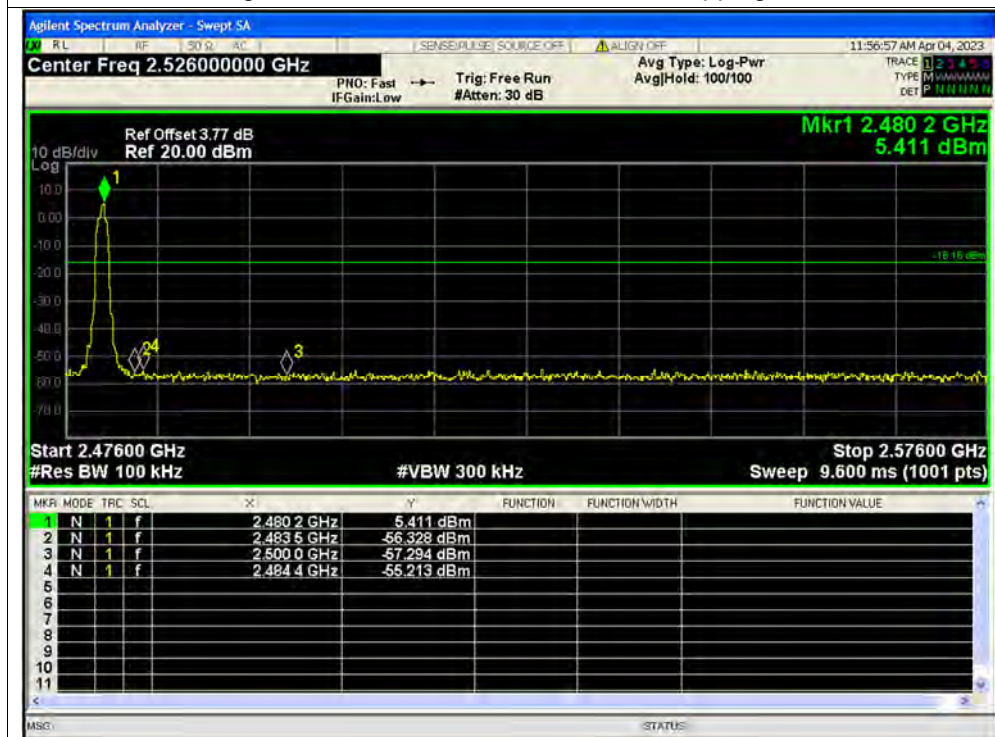
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



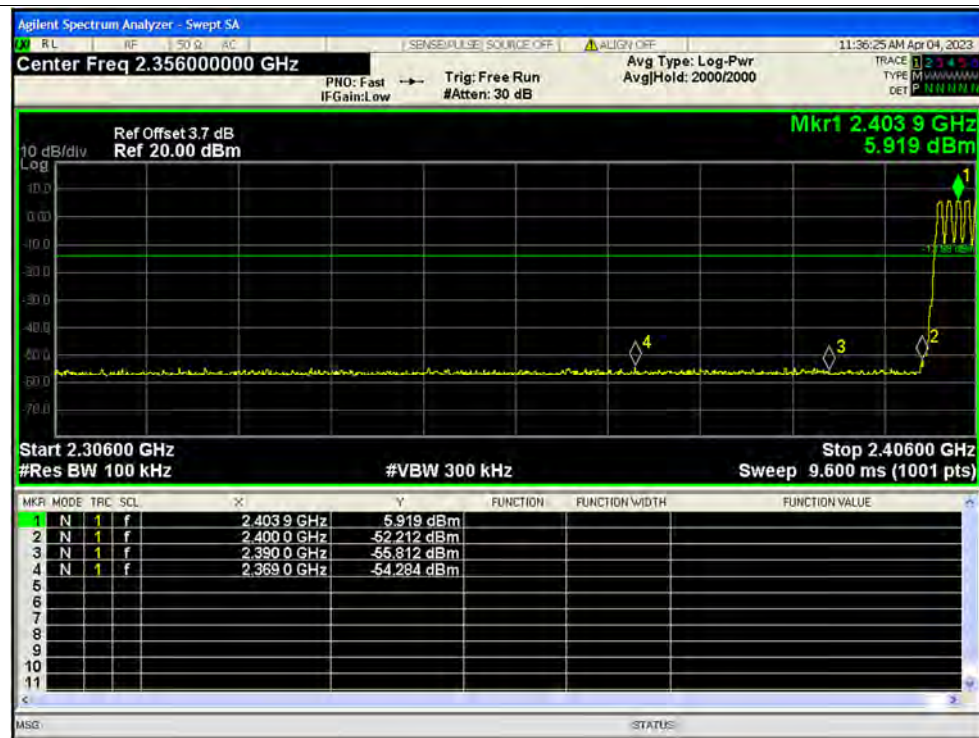
Right

Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



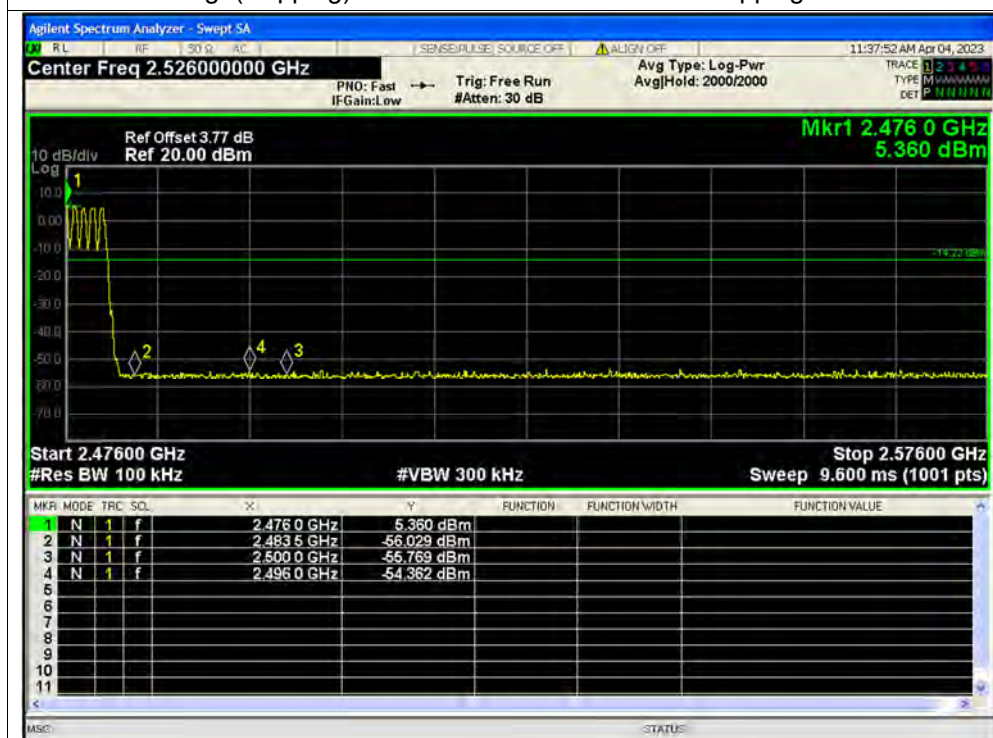
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



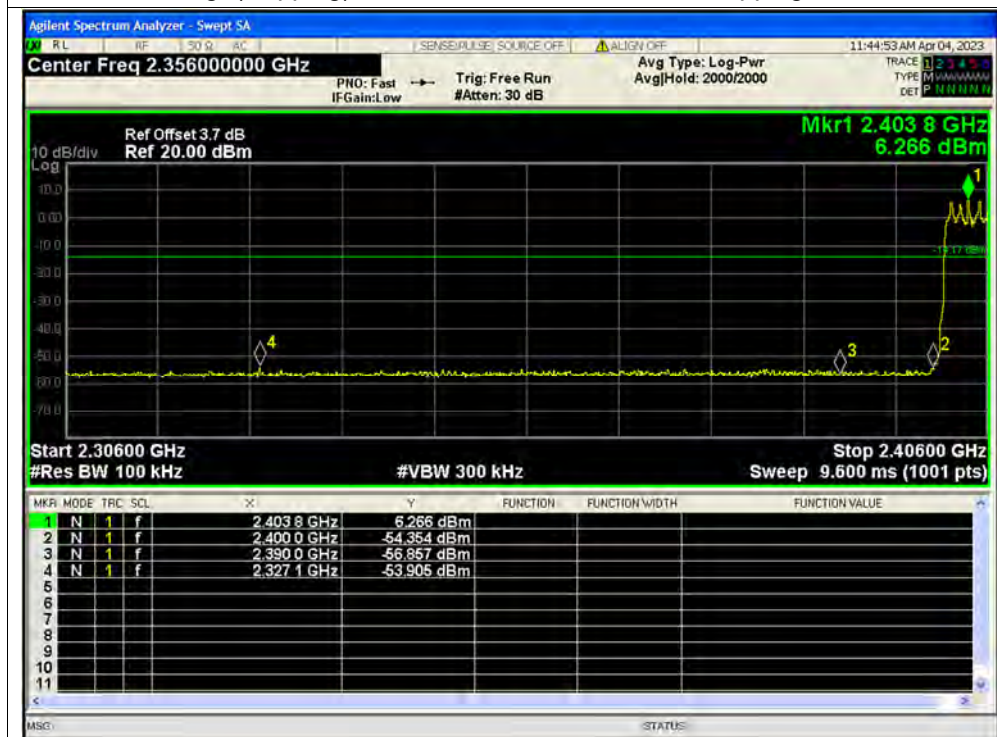
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



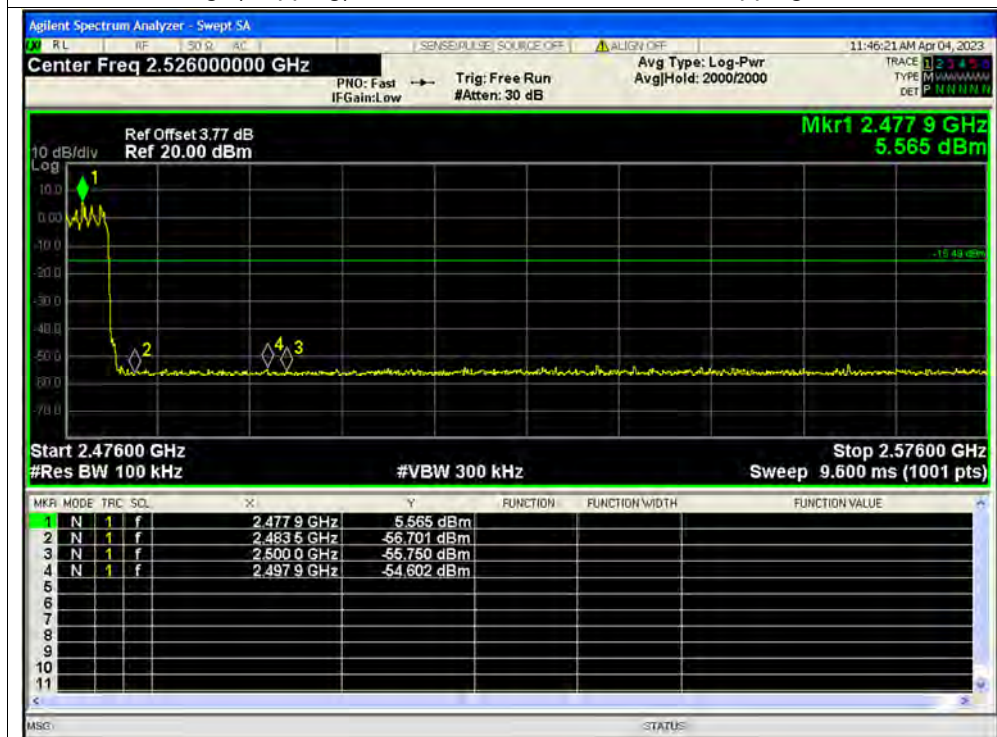
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



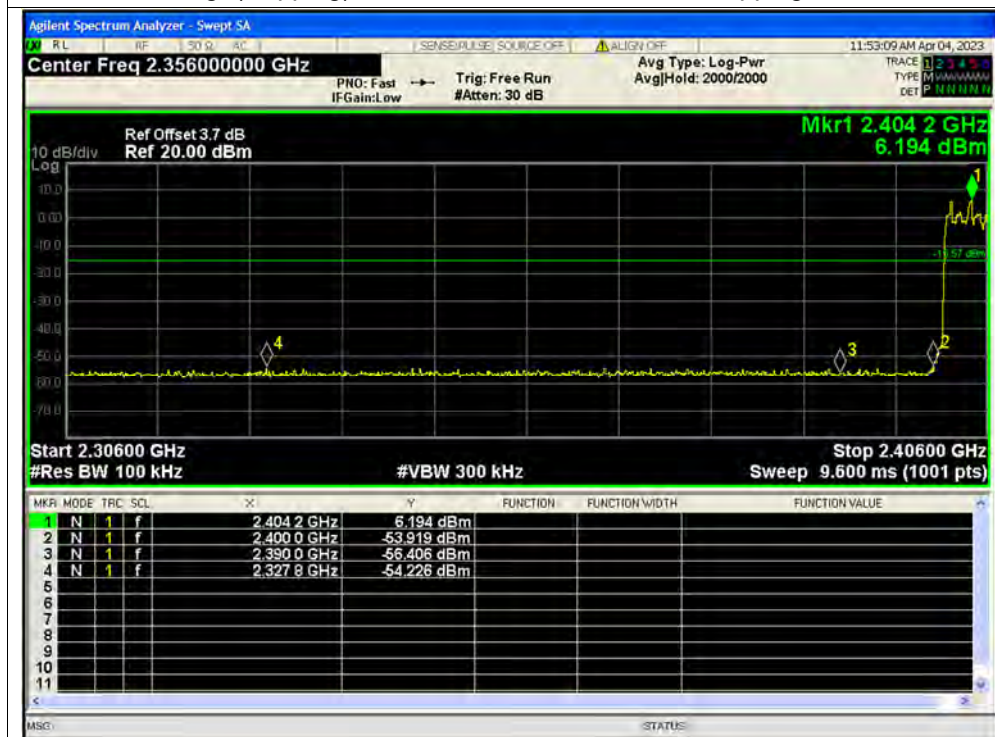
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



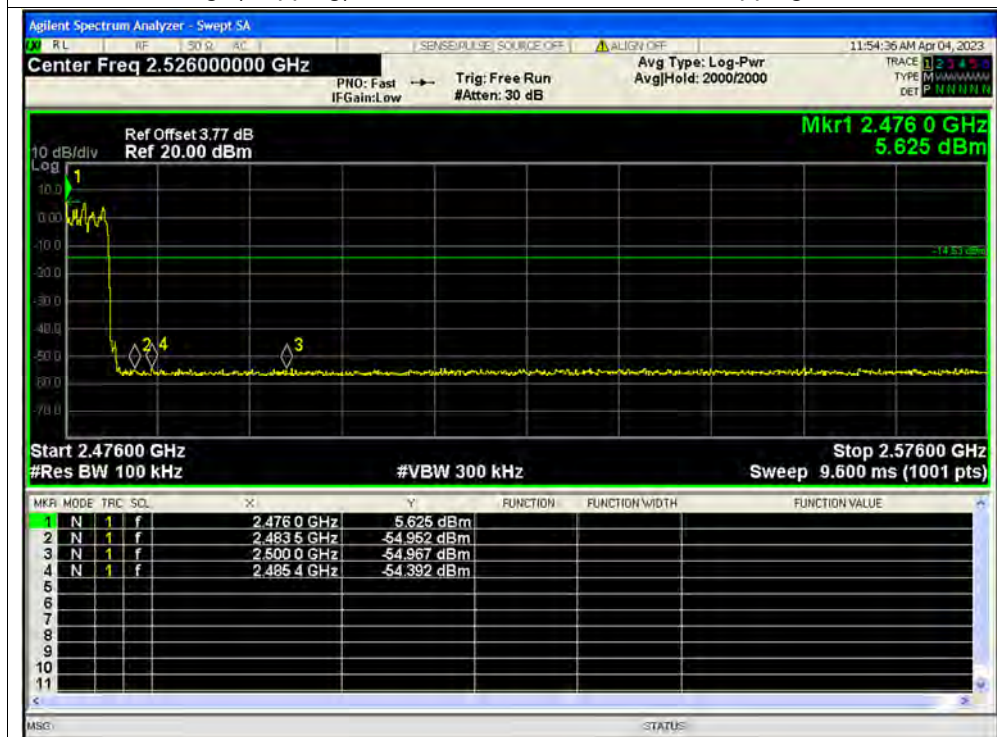
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





REPORT No. : SZ23030352W02

A.10. Conducted Emission

This test case does not apply this kind of EUT.

**A.11. Restricted Frequency Bands**

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

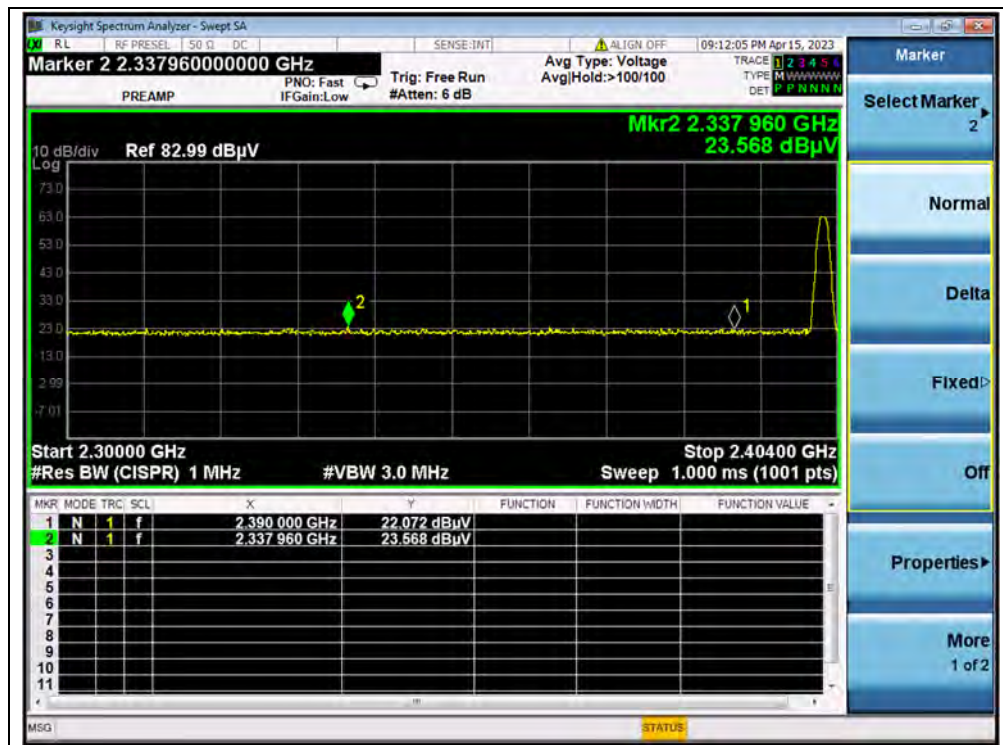
A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

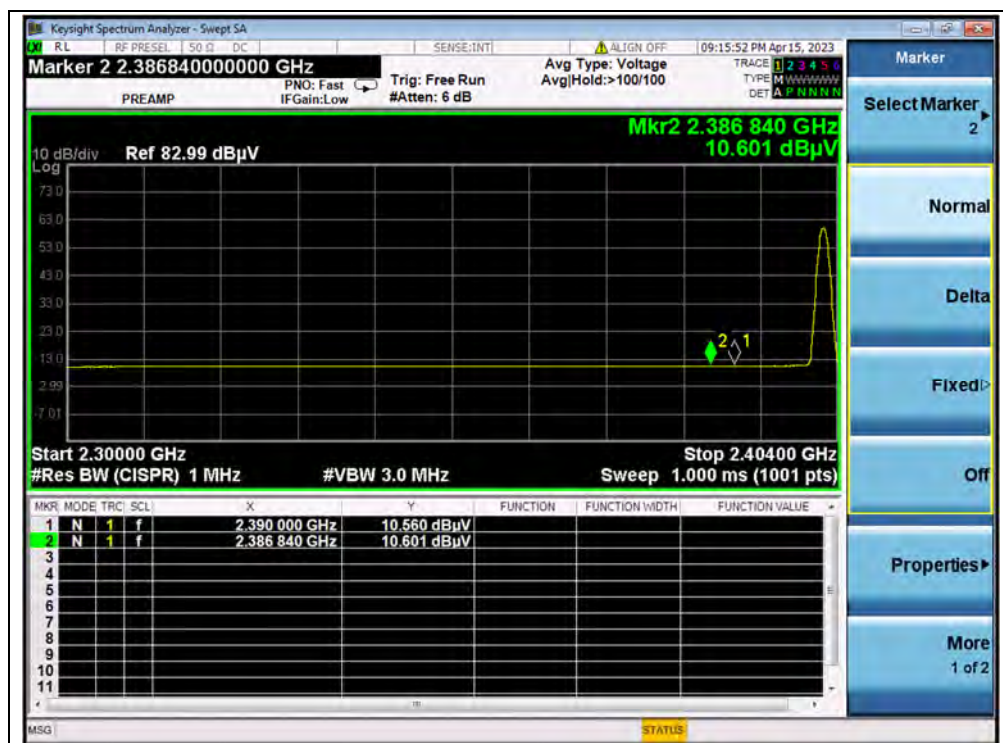
Left

GFSK Mode

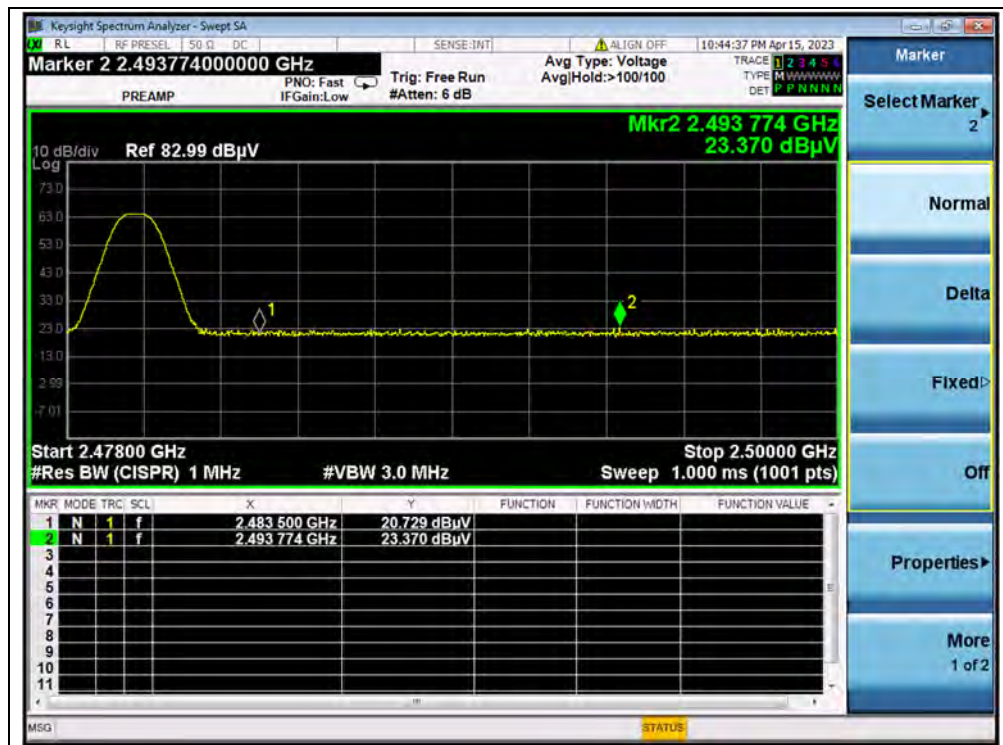
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2337.96	PK	23.57	6.74	27.20	57.51	74	PASS
0	2386.84	AV	10.60	6.74	27.20	44.54	54	PASS
78	2493.77	PK	23.37	6.74	27.20	57.31	74	PASS
78	2483.76	AV	10.23	6.74	27.20	44.17	54	PASS



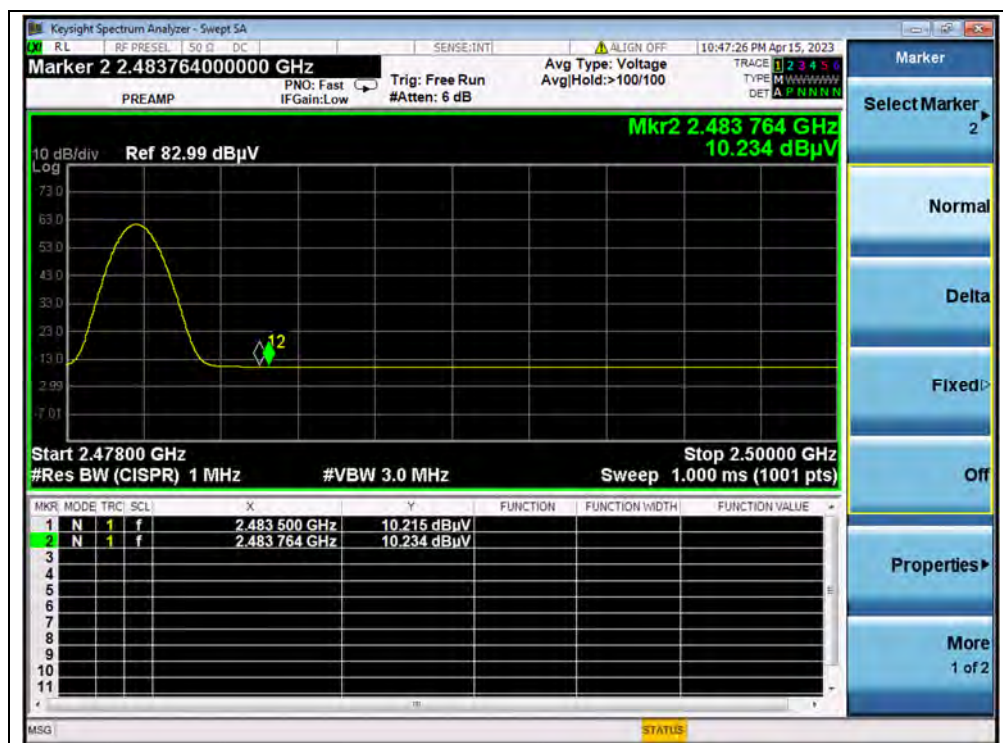
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

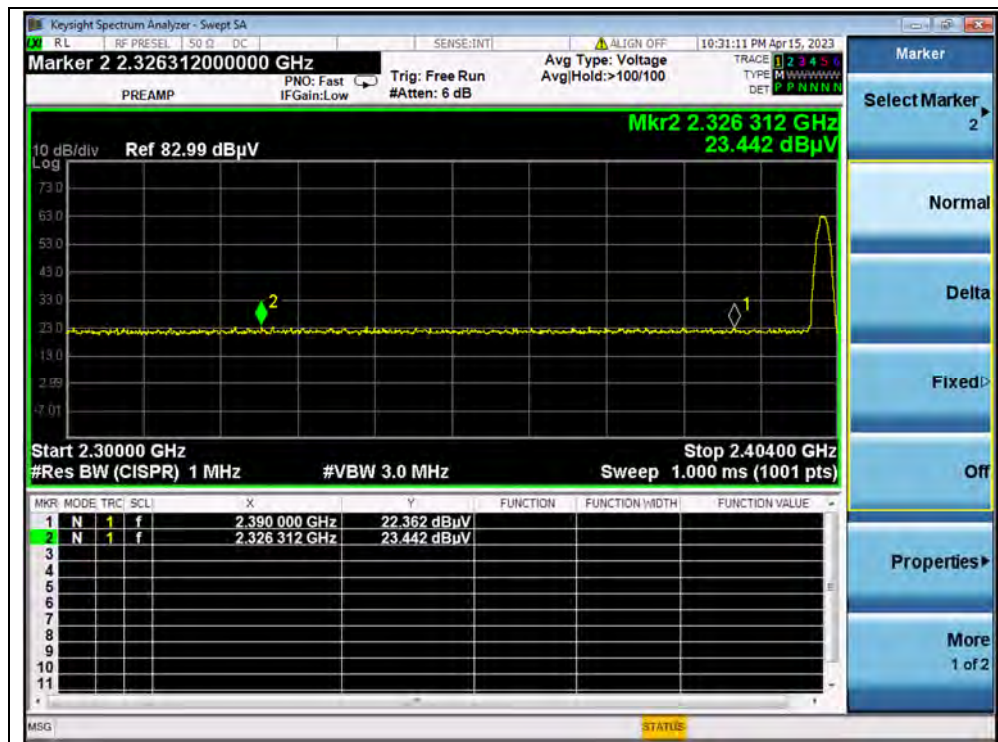


(AVERAGE, Channel 78, GFSK)

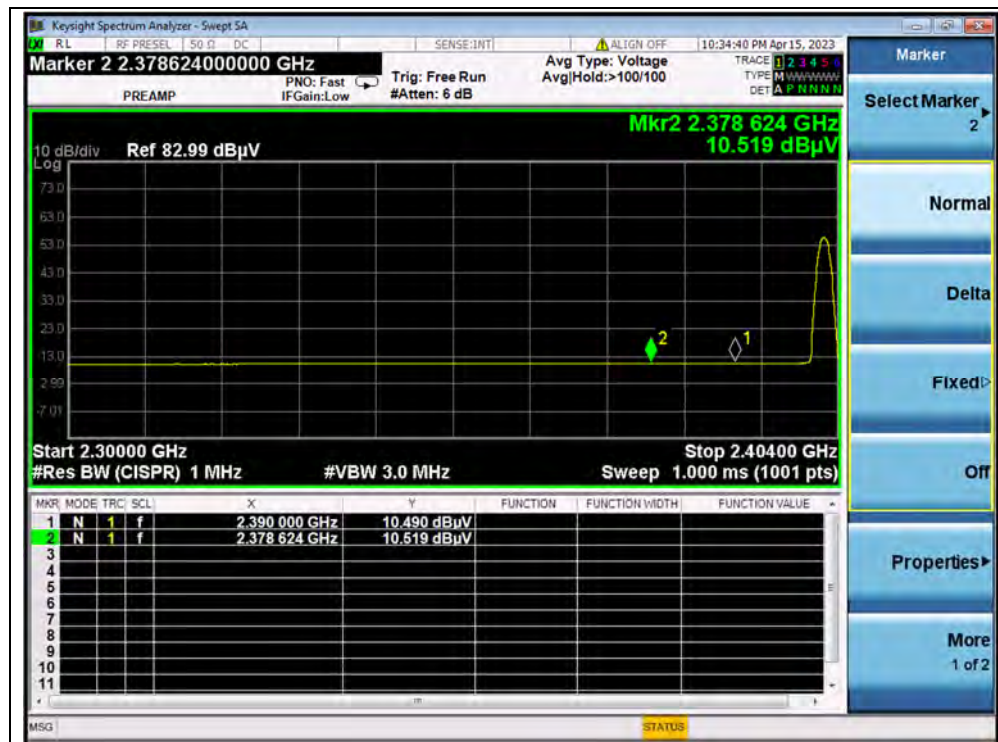
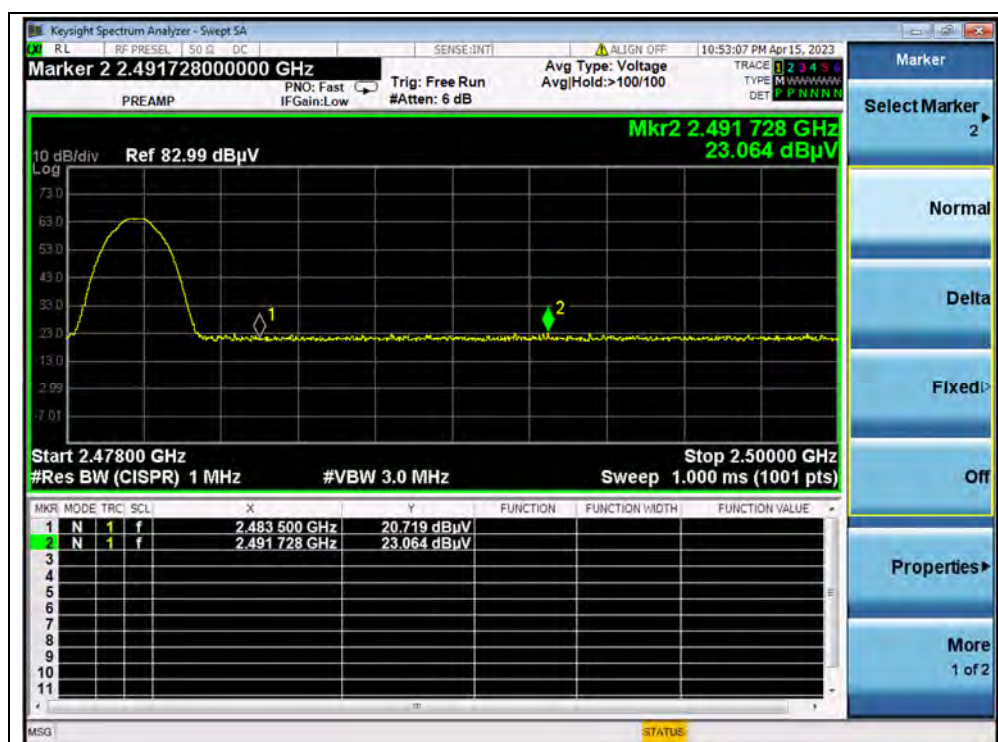


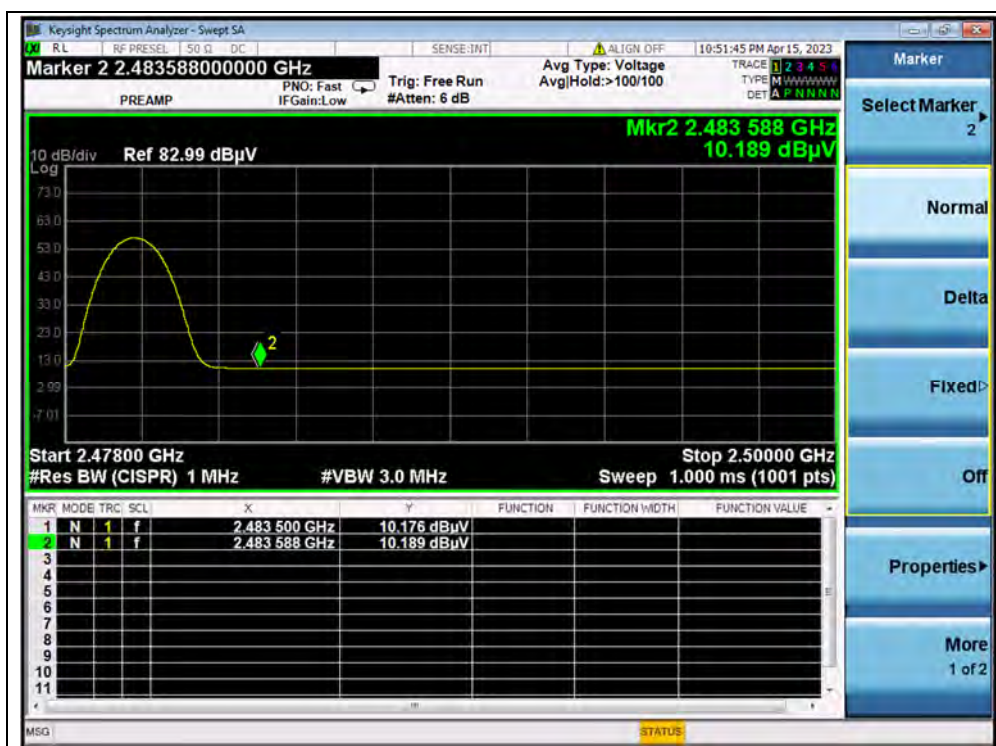
$\pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2326.31	PK	23.44	6.74	27.20	57.38	74	PASS
0	2378.62	AV	10.52	6.74	27.20	44.46	54	PASS
78	2491.73	PK	23.06	6.74	27.20	57.00	74	PASS
78	2483.59	AV	10.19	6.74	27.20	44.13	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)


(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

(PEAK, Channel 78, $\pi/4$ -DQPSK)

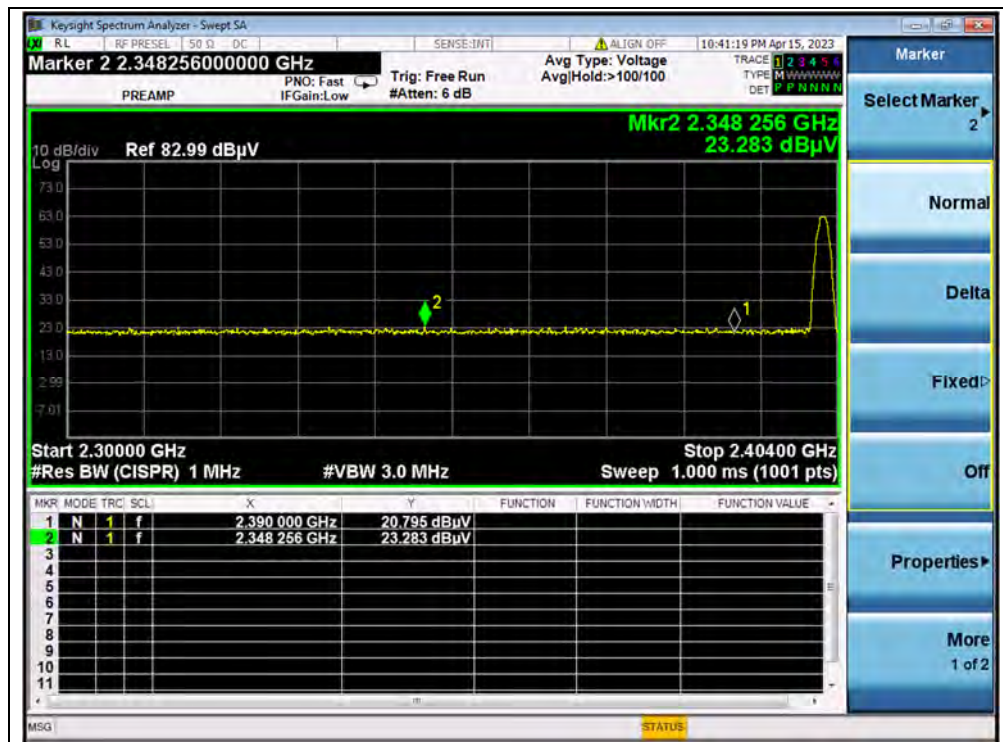


(AVERAGE, Channel 78, $\pi/4$ -DQPSK)



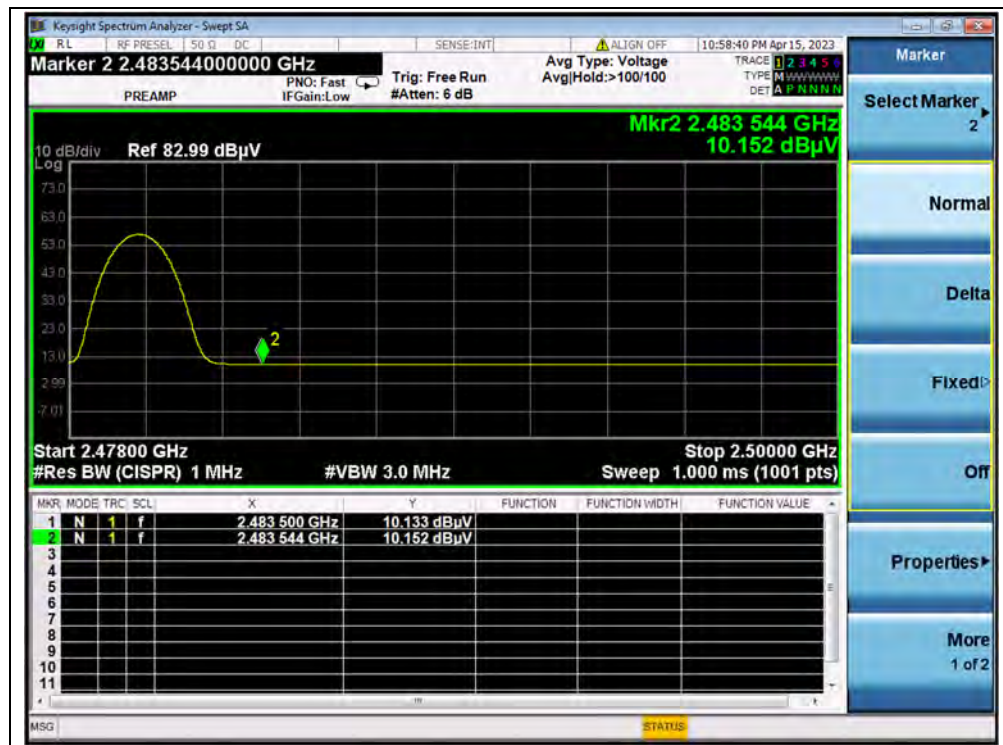
8-DPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2348.26	PK	23.28	6.74	27.20	57.22	74	PASS
0	2389.02	AV	10.48	6.74	27.20	44.42	54	PASS
78	2490.52	PK	22.78	6.74	27.20	56.72	74	PASS
78	2483.54	AV	10.15	6.74	27.20	44.09	54	PASS



(PEAK, Channel 0, 8-DPSK)





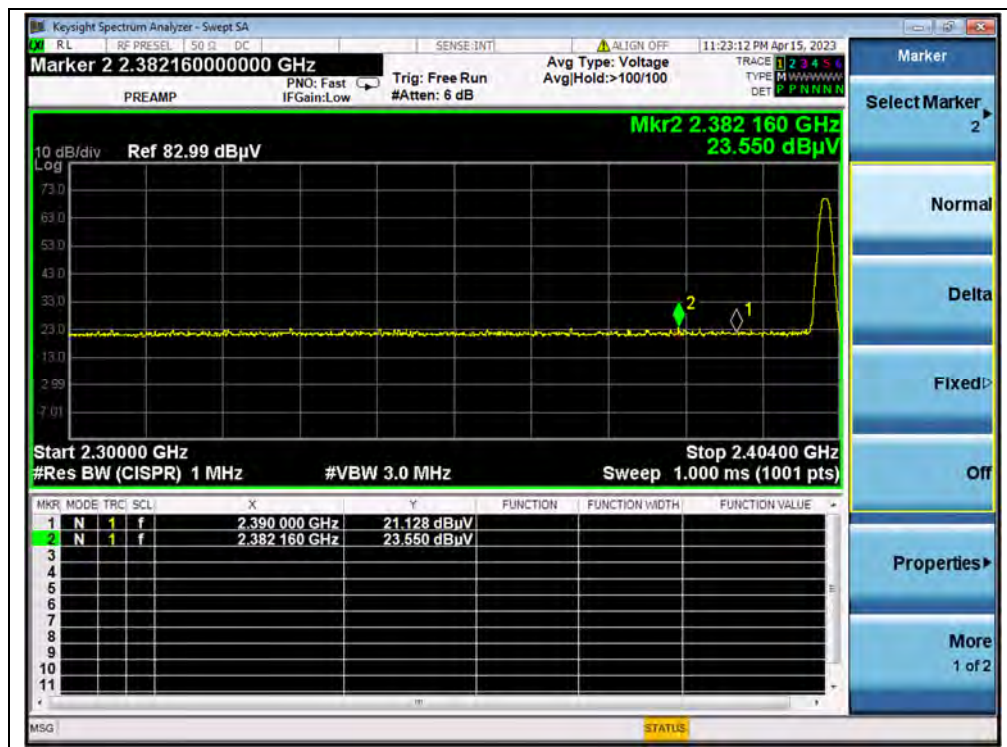
(AVERAGE, Channel 78, 8-DPSK)



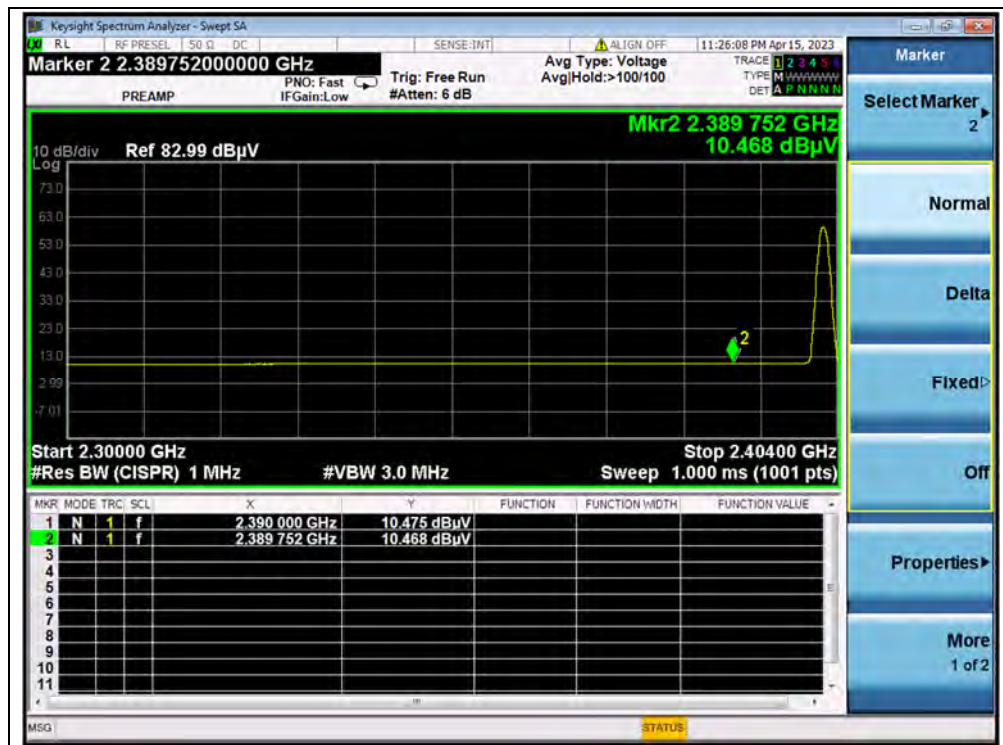
Right

GFSK Mode

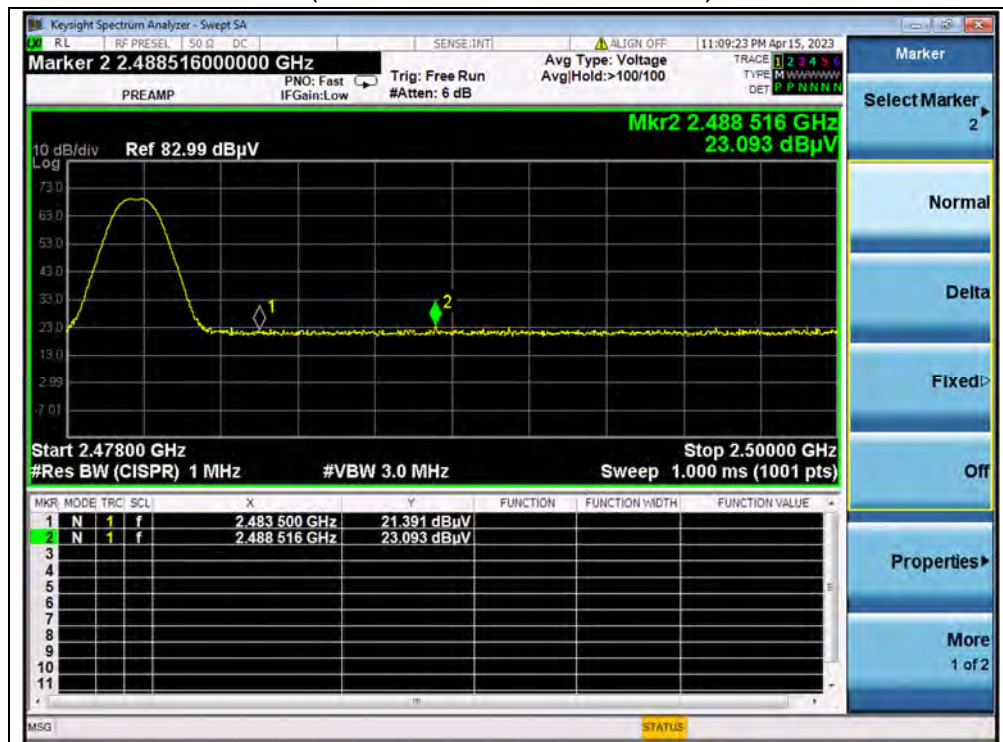
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
0	2382.16	PK	23.55	6.74	27.20	57.49	74	PASS
0	2390.00	AV	10.48	6.74	27.20	44.42	54	PASS
78	2488.52	PK	23.09	6.74	27.20	57.03	74	PASS
78	2483.54	AV	10.30	6.74	27.20	44.24	54	PASS



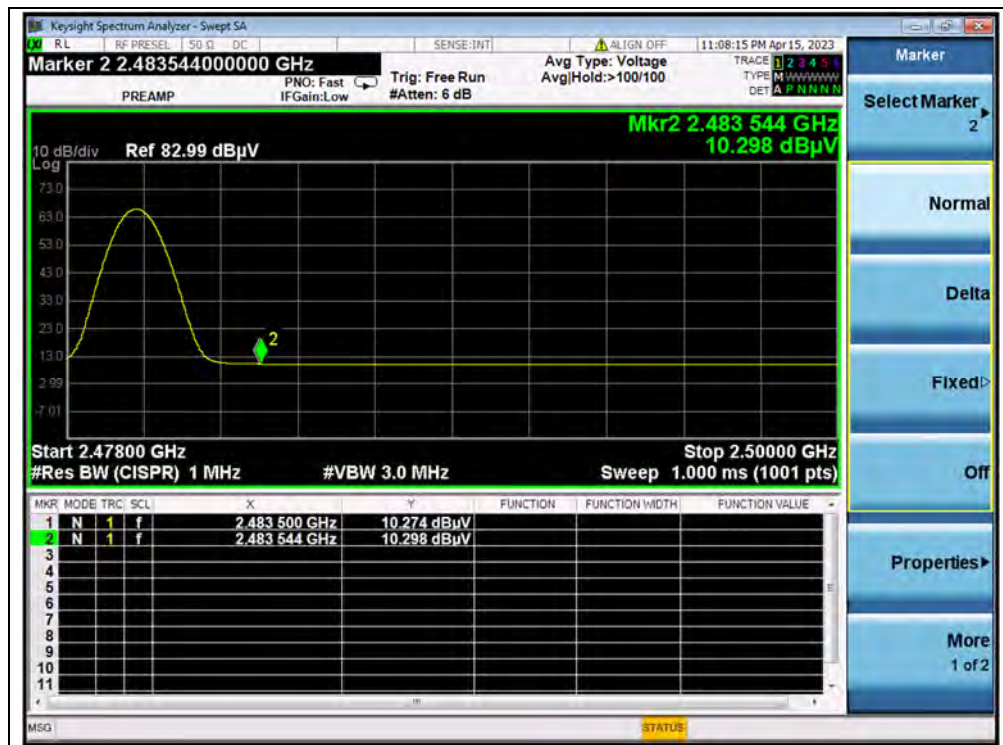
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

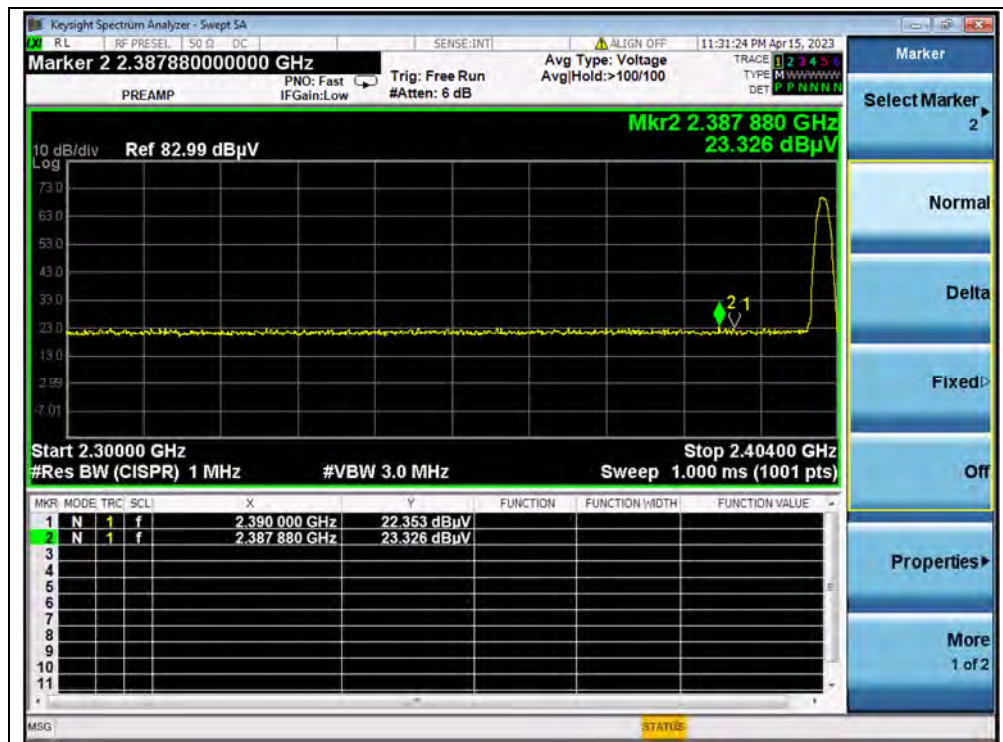


(AVERAGE, Channel 78, GFSK)

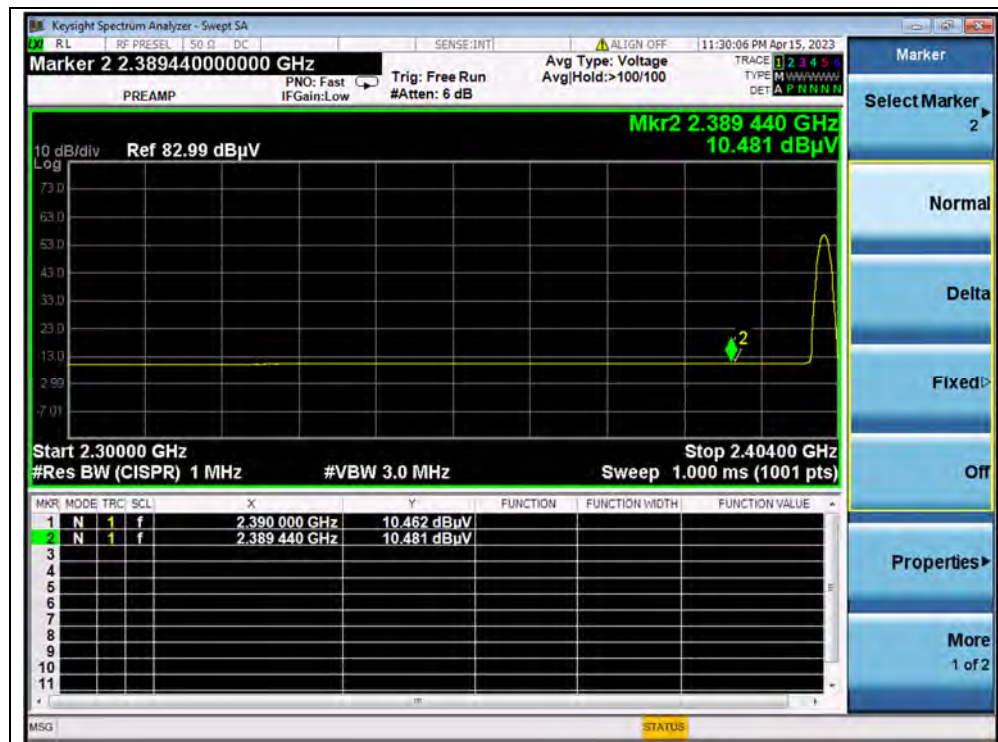
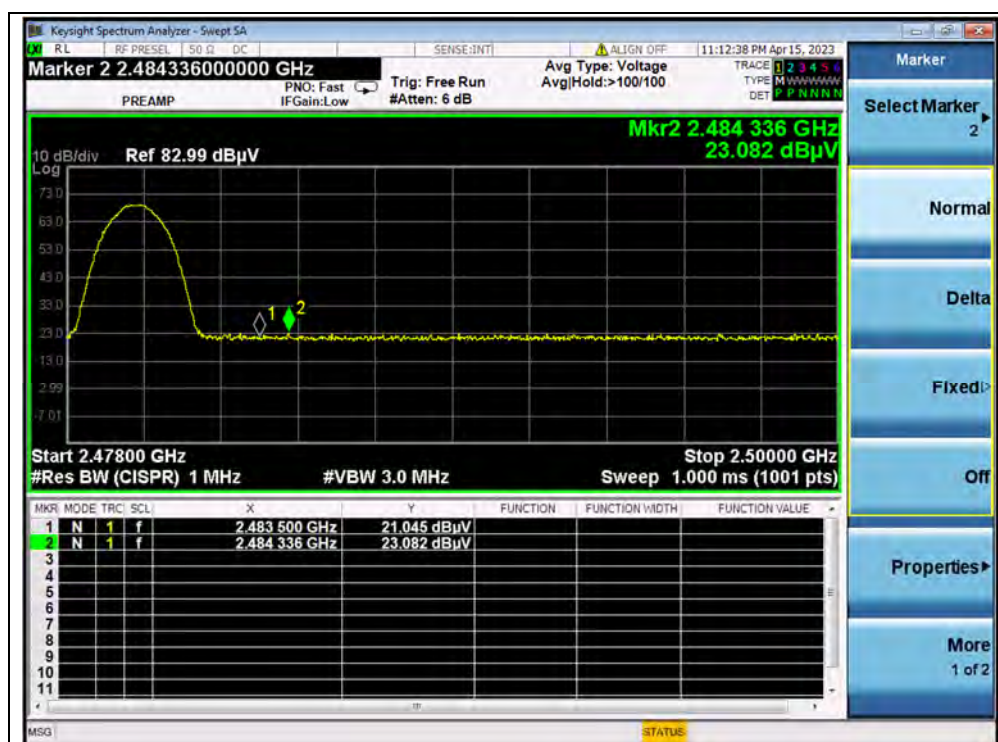


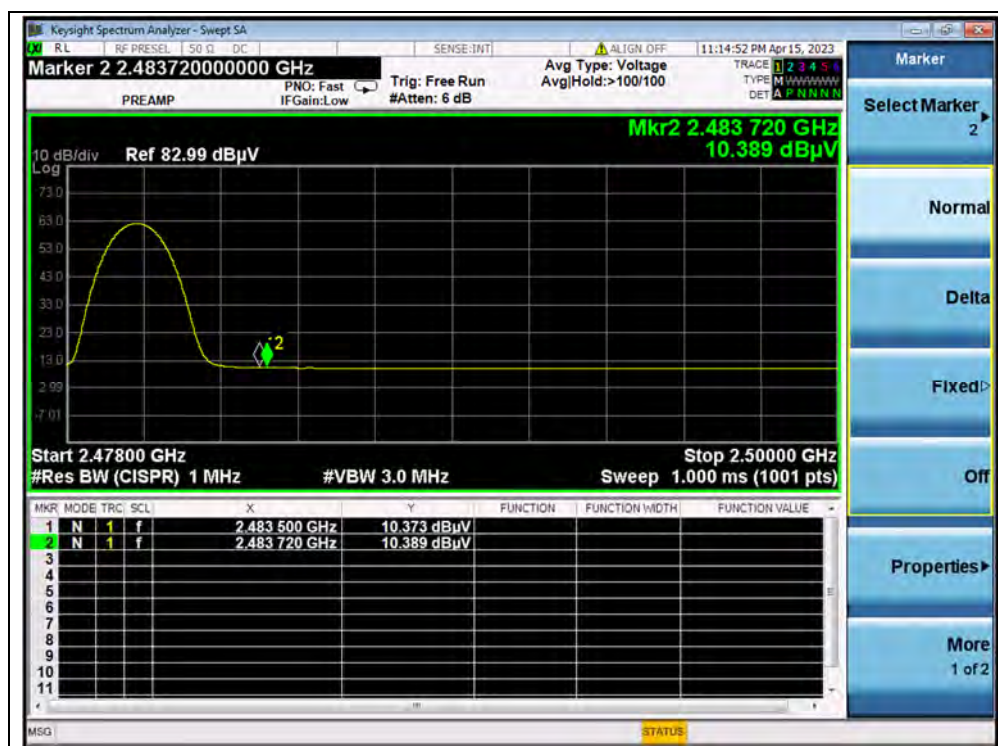
$\pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2387.88	PK	23.33	6.74	27.20	57.27	74	PASS
0	2389.44	AV	10.48	6.74	27.20	44.42	54	PASS
78	2484.34	PK	23.08	6.74	27.20	57.02	74	PASS
78	2483.72	AV	10.39	6.74	27.20	44.33	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)

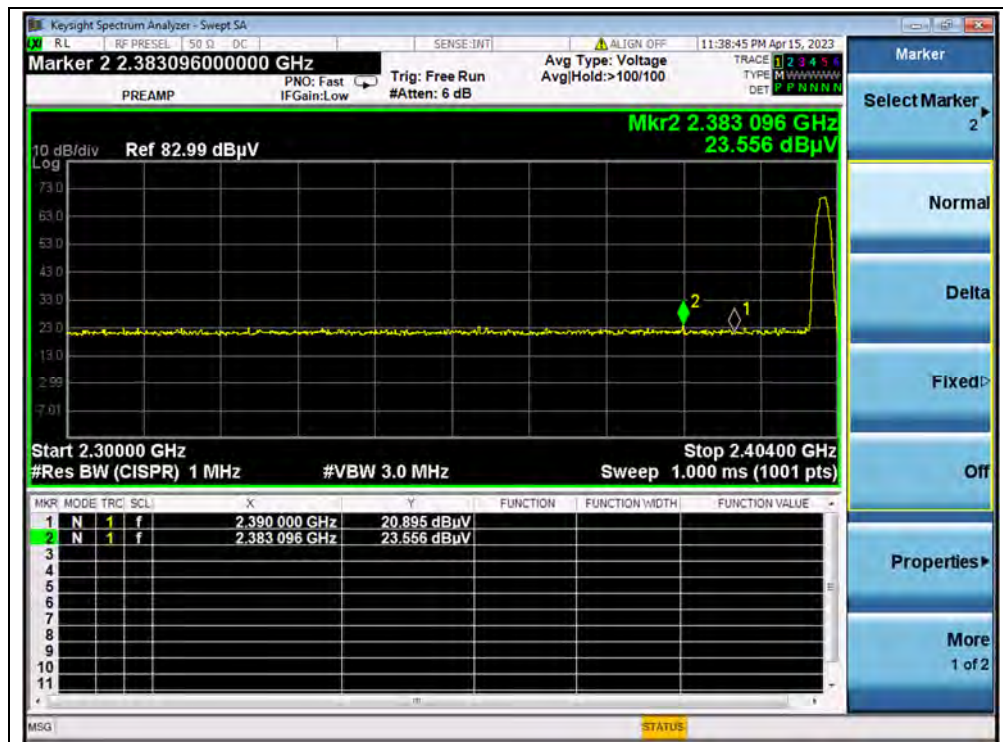

(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

(PEAK, Channel 78, $\pi/4$ -DQPSK)

(AVERAGE, Channel 78, $\pi/4$ -DQPSK)

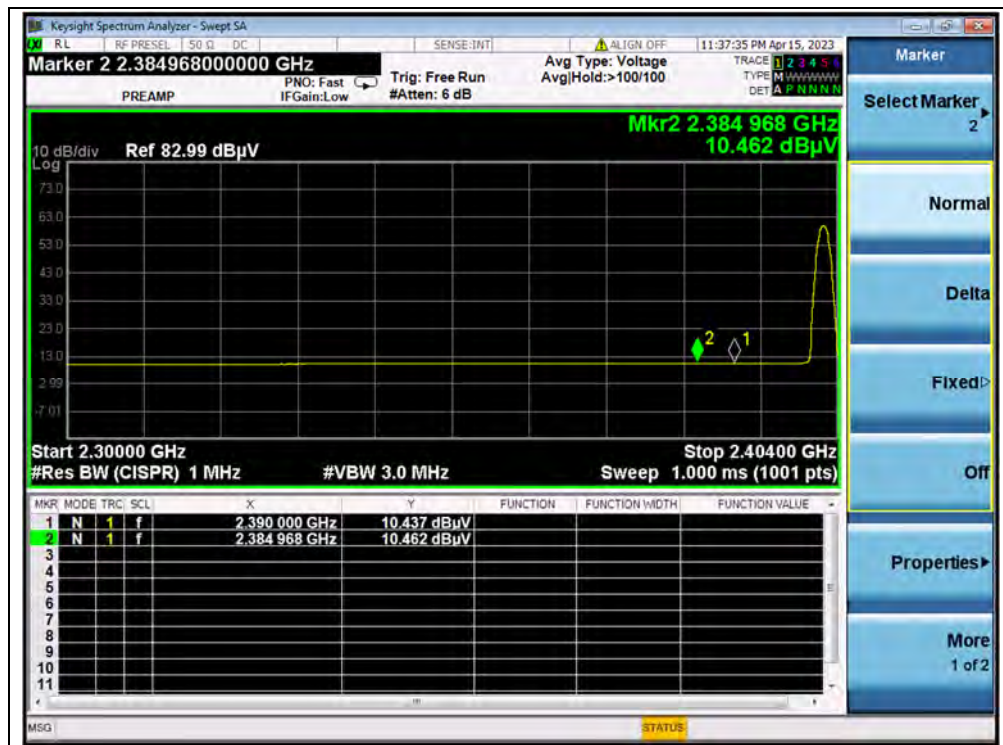


8-DPSK Mode

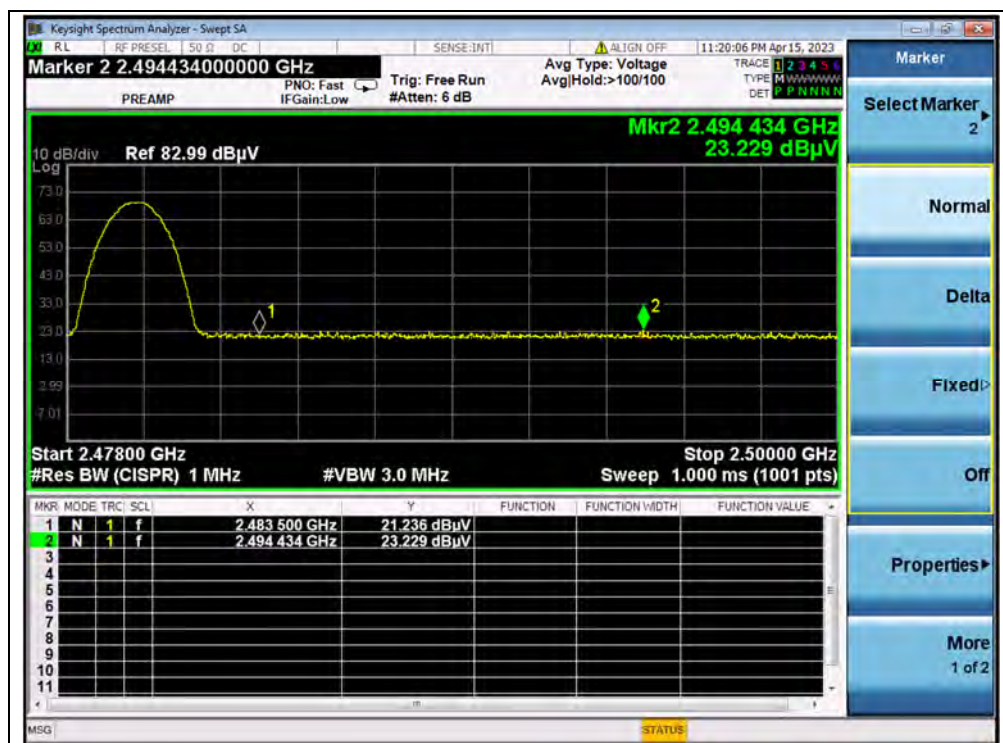
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2383.10	PK	23.56	6.74	27.20	57.50	74	PASS
0	2384.97	AV	10.49	6.74	27.20	44.43	54	PASS
78	2494.43	PK	23.23	6.74	27.20	57.17	74	PASS
78	2483.54	AV	10.36	6.74	27.20	44.30	54	PASS



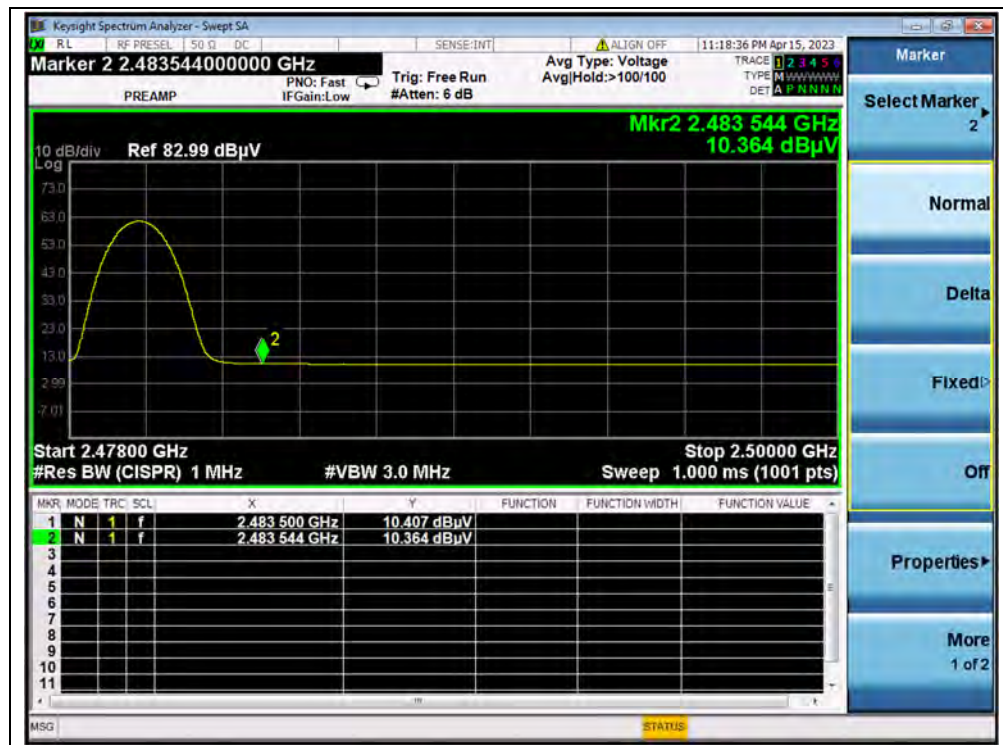
(PEAK, Channel 0, 8-DPSK)



(AVERAGE, Channel 0, 8-DPSK)



(PEAK, Channel 78, 8-DPSK)



(AVERAGE, Channel 78, 8-DPSK)



A.12. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

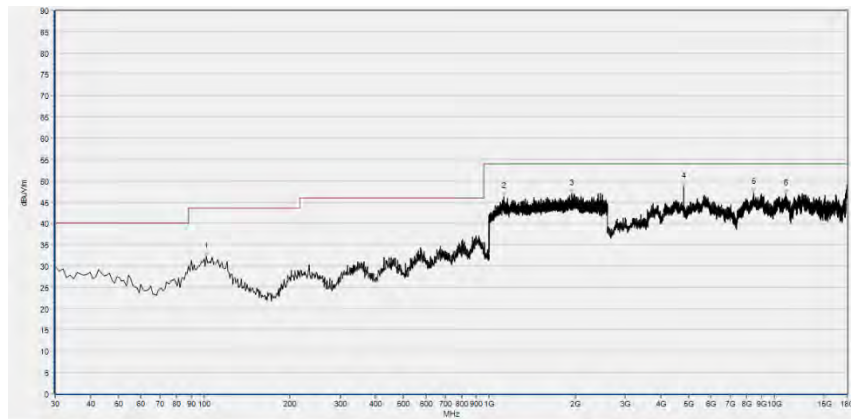
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.



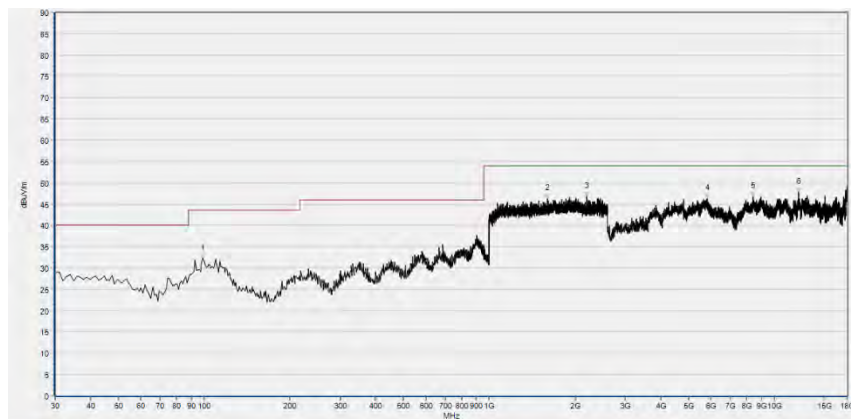
Left, GFSK Mode

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1126.933	46.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1944.533	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4805.280	48.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8458.160	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10974.520	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

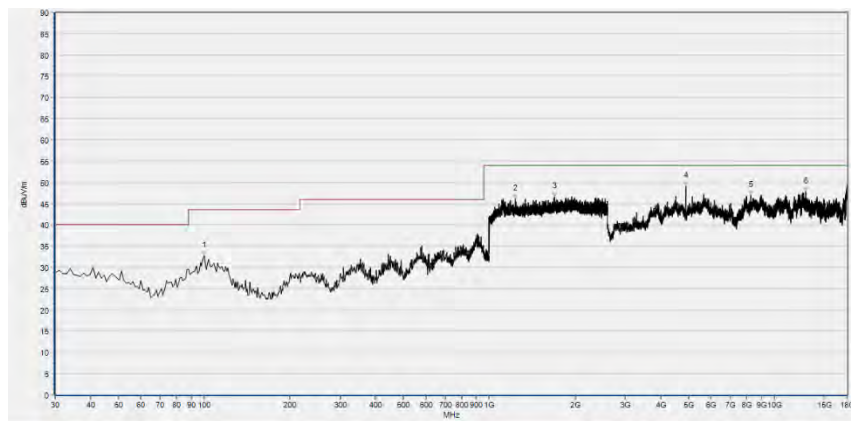


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	32.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1600.000	46.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2202.133	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5812.440	46.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8411.960	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12138.760	47.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

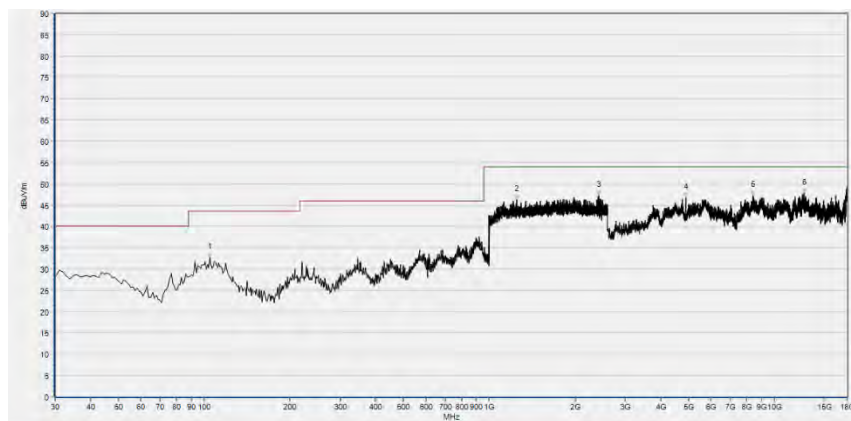


Plot for Channel 39



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1236.800	46.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1694.933	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4882.280	49.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8270.280	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12887.200	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

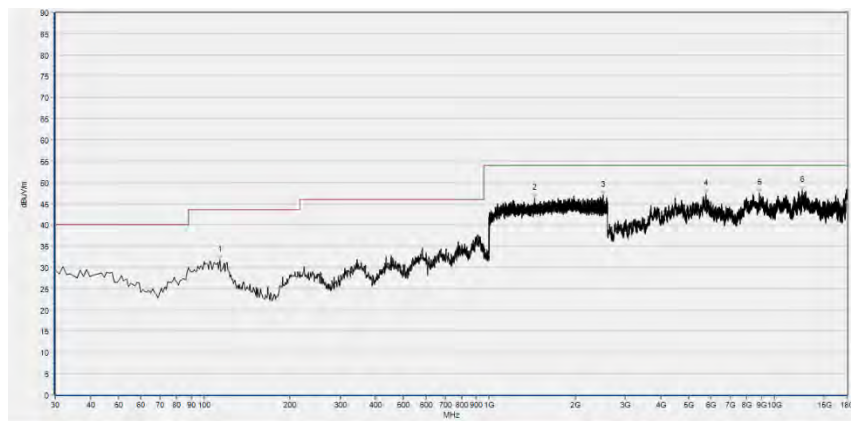


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1246.400	46.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2417.067	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4882.280	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8418.120	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12754.760	47.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Vertical, 30MHz to 18GHz)

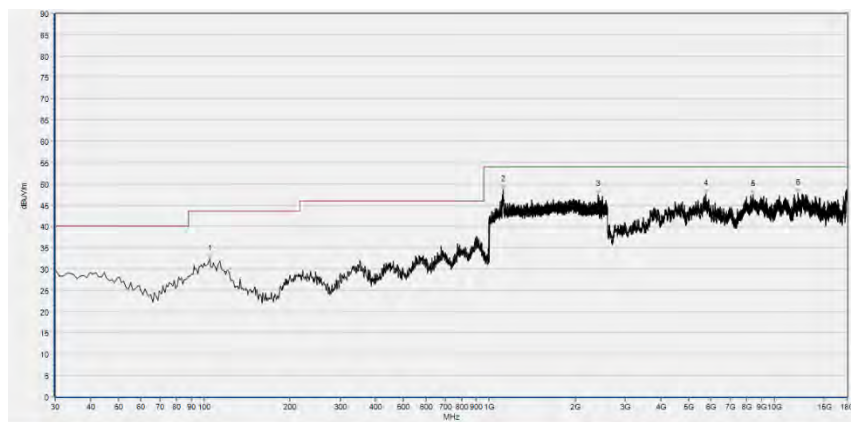


Plot for Channel 78



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	31.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1441.600	46.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2512.533	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5760.080	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8849.320	47.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12529.920	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

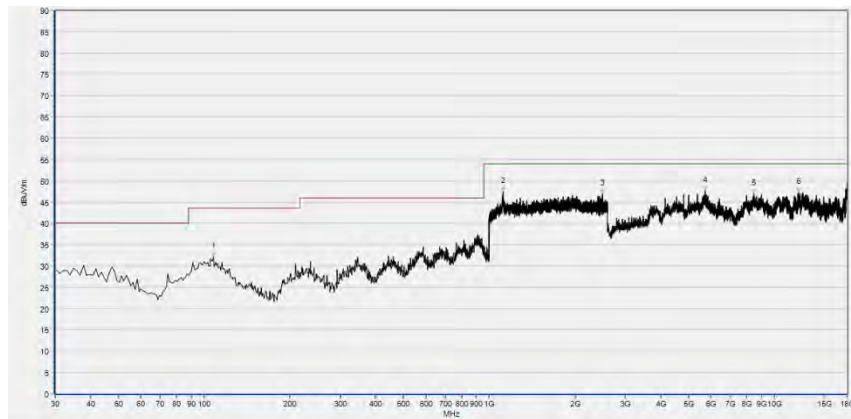


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1118.400	48.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2412.267	47.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5763.160	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8405.800	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12126.440	47.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

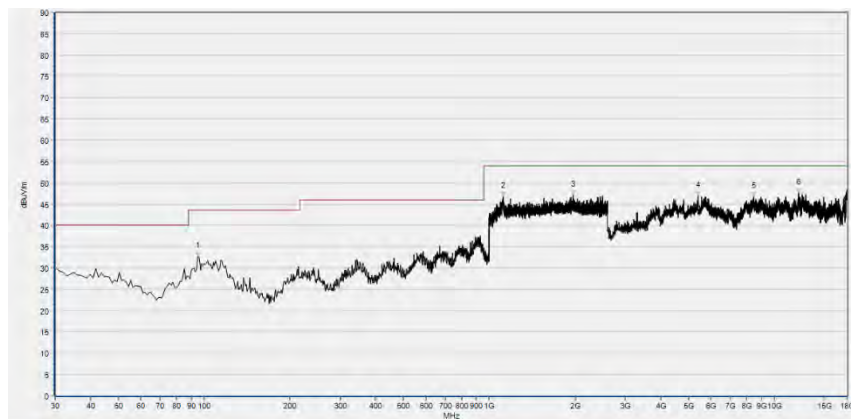
 **$\pi/4$ -DQPSK Mode**

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1121.067	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2494.933	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5701.560	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8479.720	46.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12148.000	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

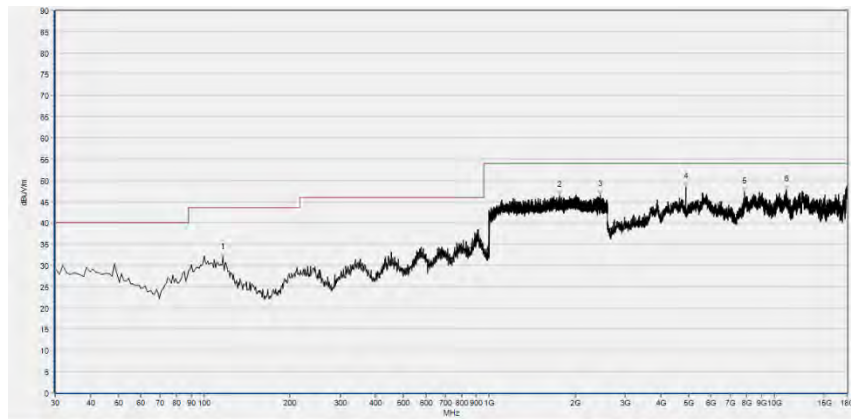


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.990	32.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1120.000	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1972.267	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5399.720	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8442.760	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12138.760	47.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

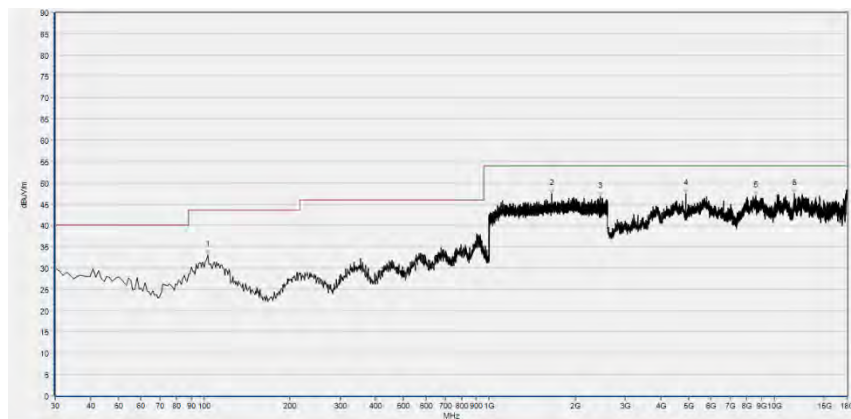


Plot for Channel 39



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
116.330	31.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1761.600	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2454.400	46.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4882.280	48.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7869.880	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11029.960	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

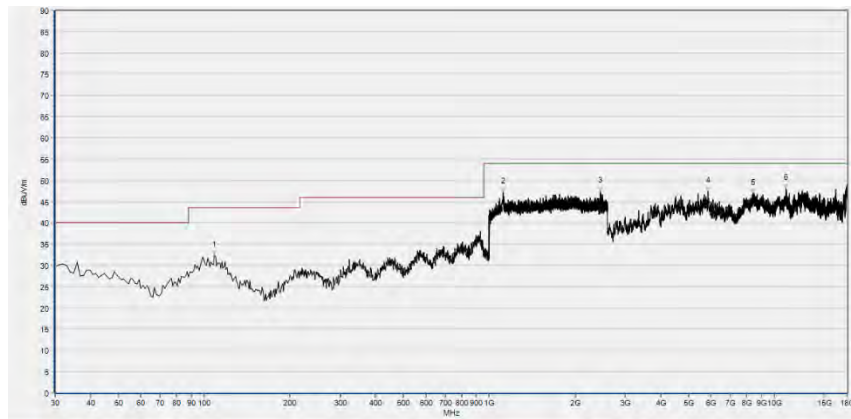


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	33.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1652.800	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2454.933	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4882.280	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8621.400	46.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11738.360	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

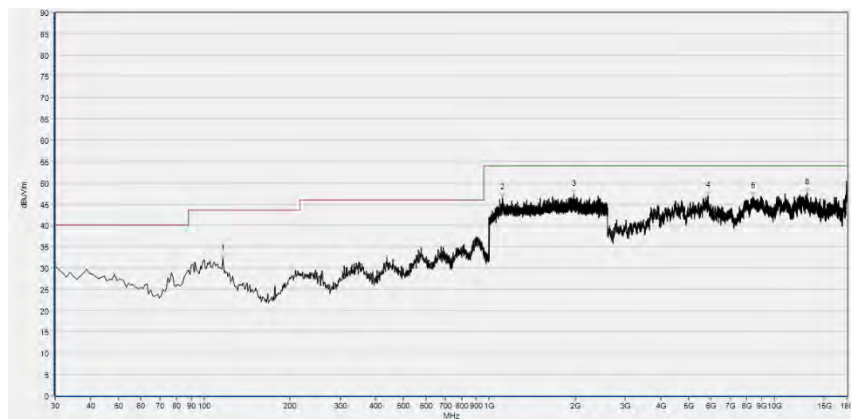


Plot for Channel 78



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.39	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1119.467	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2456.000	47.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5849.400	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8421.200	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10996.080	48.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

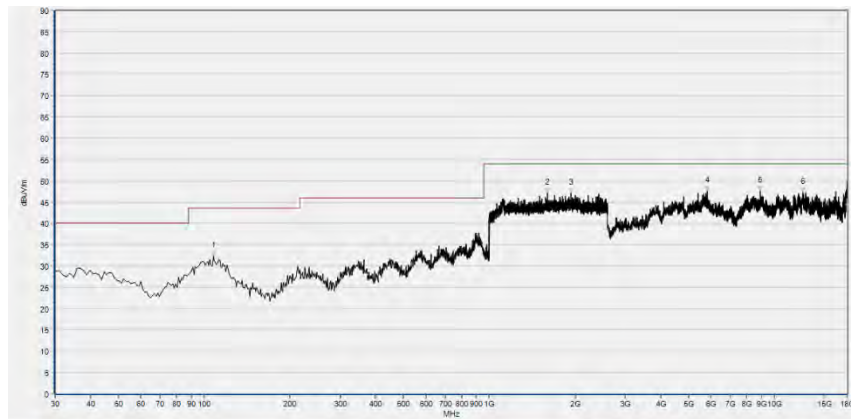


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
116.330	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1112.000	46.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1974.400	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5858.640	46.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8424.280	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13053.520	47.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

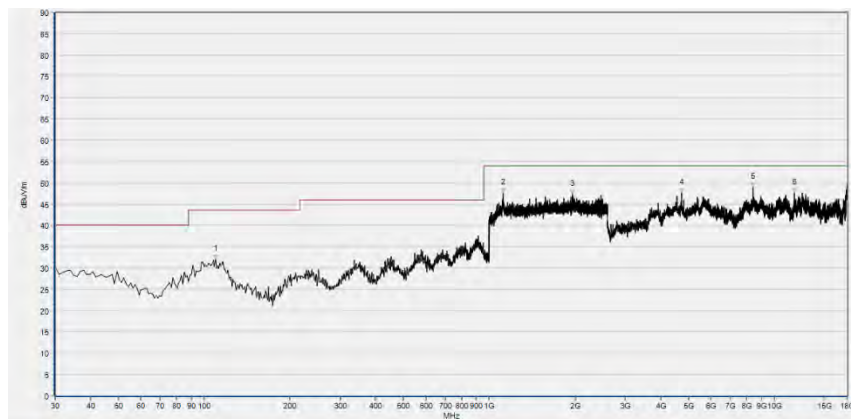
**8-DPSK Mode**

Plots for Channel 0



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1600.000	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1933.867	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5806.280	47.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8935.560	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12576.120	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

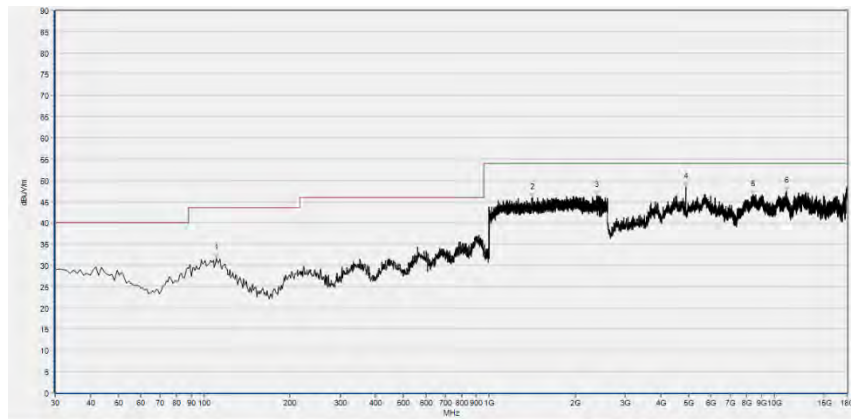


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1116.800	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1956.800	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.280	47.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8427.360	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11750.680	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

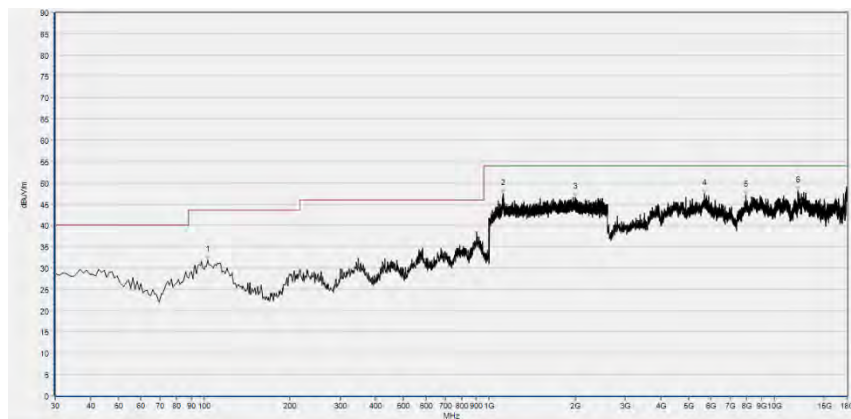


Plot for Channel 39



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	31.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1419.733	45.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2383.467	46.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4882.280	48.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8411.960	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11011.480	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

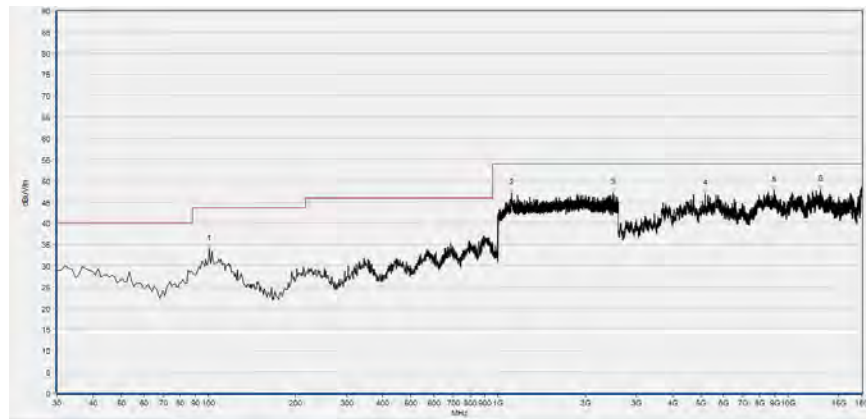


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1116.267	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2001.600	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5686.160	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7946.880	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12120.280	48.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

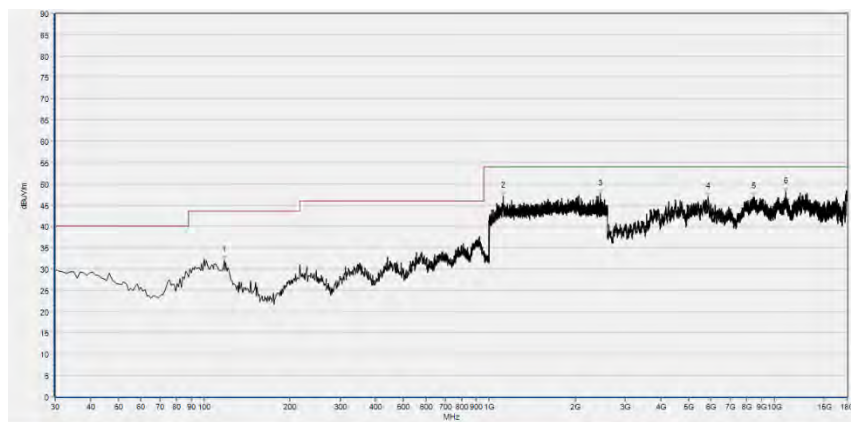


Plot for Channel 78



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	33.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1110.400	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2492.800	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5181.040	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8972.520	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12942.640	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

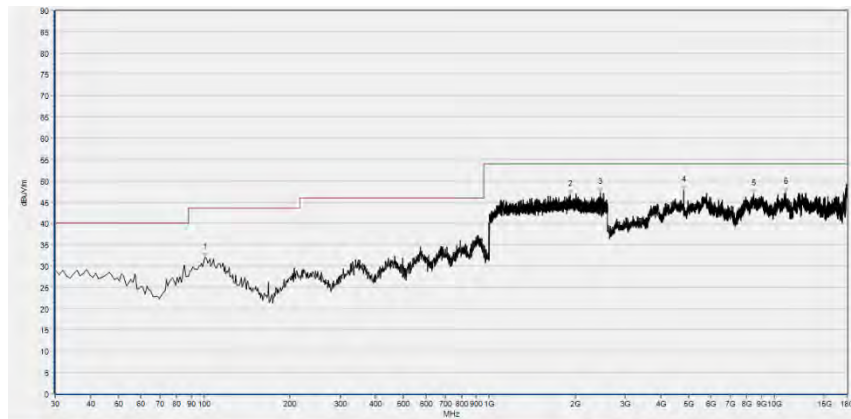


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
117.300	31.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1118.933	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2454.400	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5864.800	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8448.920	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10996.080	48.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

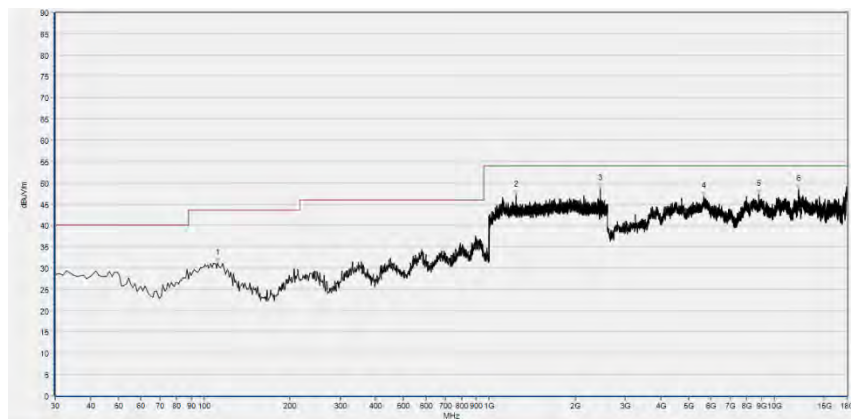
**Right, GFSK Mode**

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1918.933	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2446.400	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4802.200	47.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8470.480	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10965.280	47.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

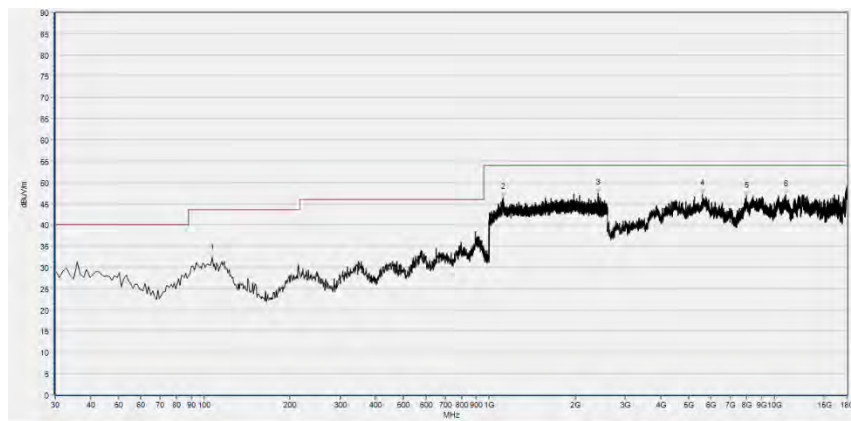


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	31.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1244.267	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2451.200	48.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	46.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8806.200	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12178.800	48.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

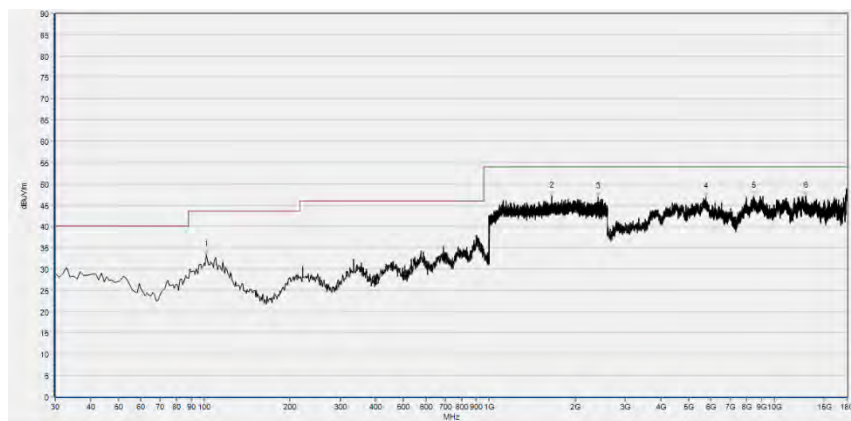


Plot for Channel 39



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1118.400	46.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2404.267	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5603.000	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7965.360	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10962.200	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

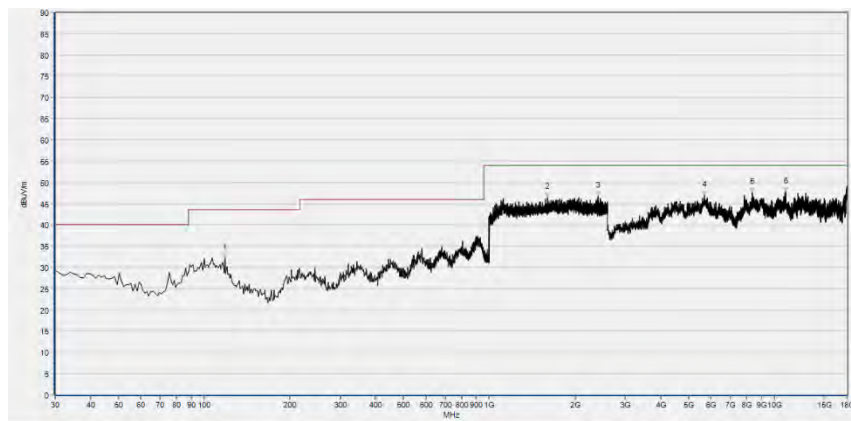


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	33.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1656.000	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2410.133	46.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5757.000	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8439.680	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12890.280	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Vertical, 30MHz to 18GHz)

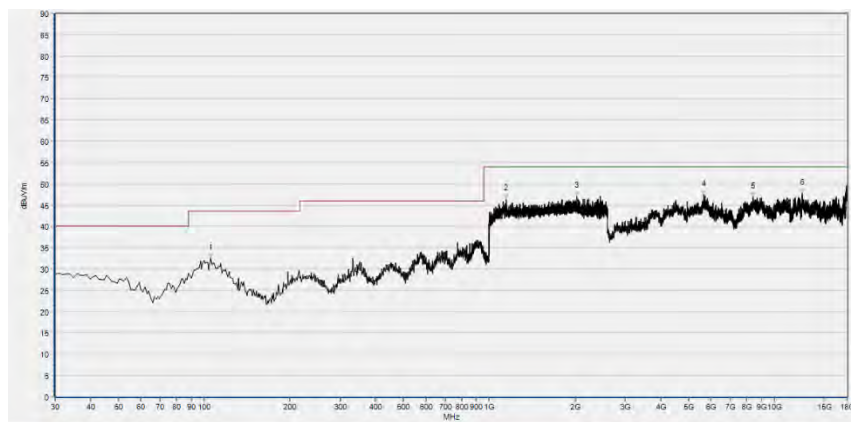


Plot for Channel 78



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
118.270	32.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1597.867	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2407.467	46.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5692.320	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8359.600	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10983.760	47.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

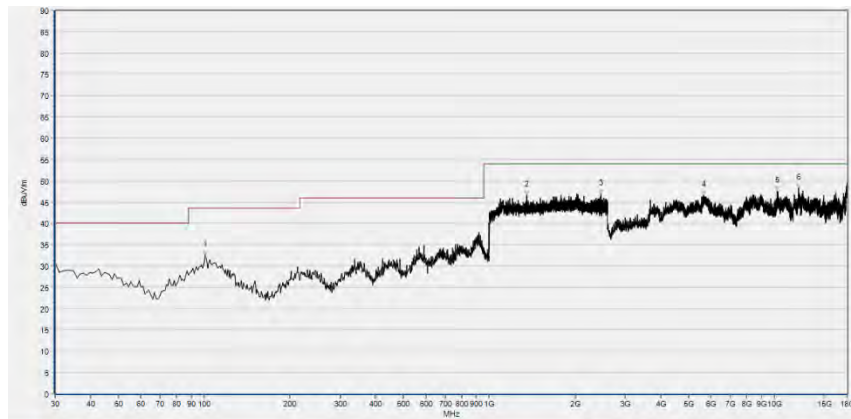


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1148.267	46.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2024.000	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5667.680	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8393.480	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12529.920	47.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

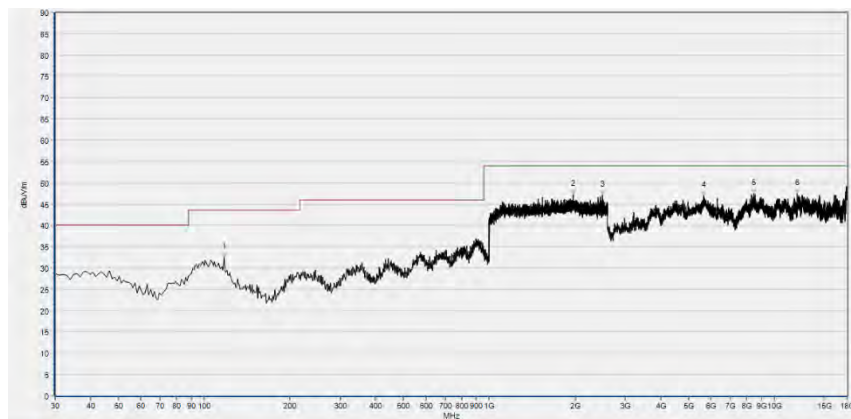
 **$\pi/4$ -DQPSK Mode**

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1353.067	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2458.667	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10213.760	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	48.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

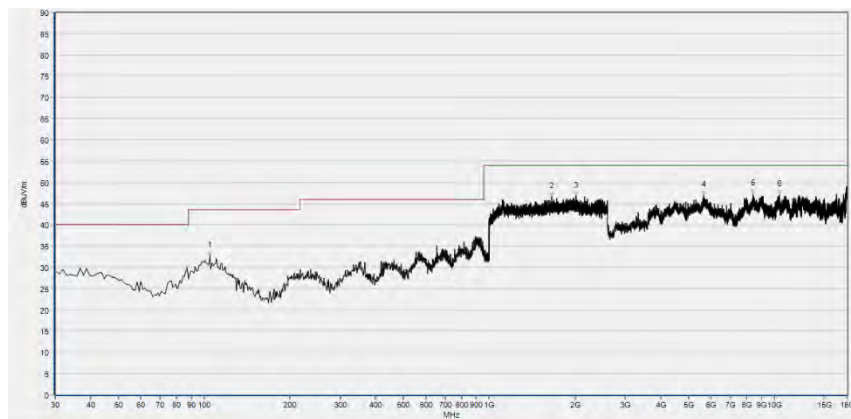


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
117.300	32.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1964.800	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2490.133	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5643.040	46.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8458.160	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12052.520	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

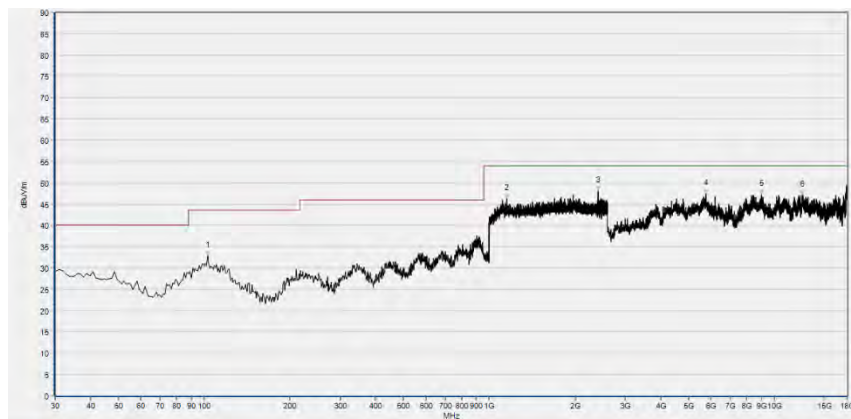


Plot for Channel 39



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1657.600	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2019.200	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	46.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8408.880	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10392.400	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

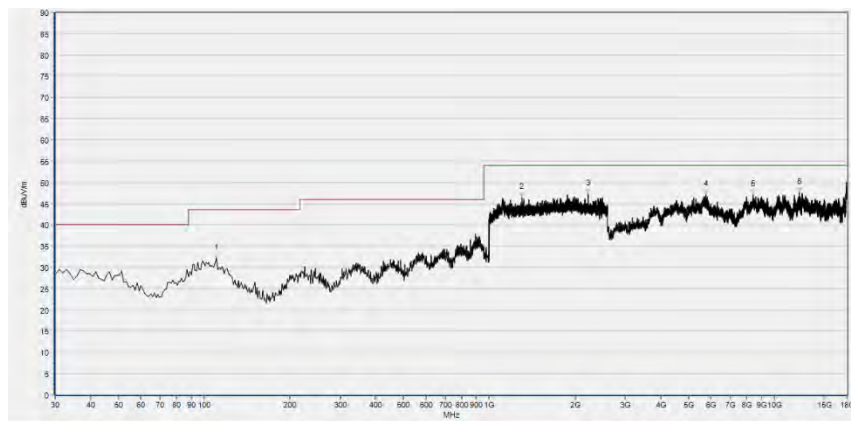


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1150.400	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2410.667	48.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5760.080	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8997.160	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12545.320	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

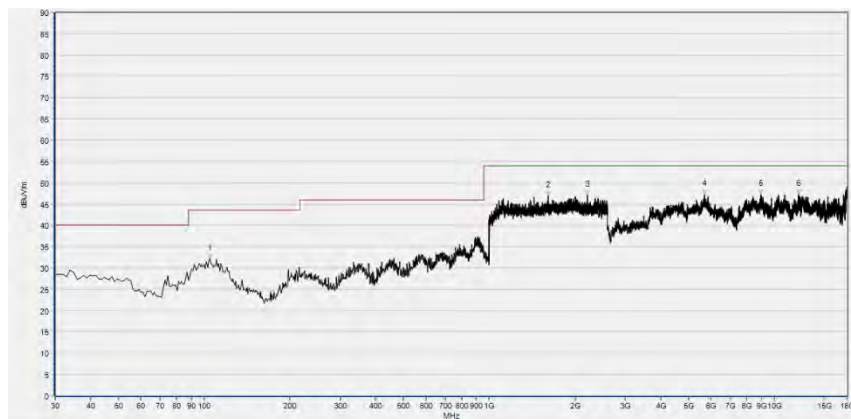


Plot for Channel 78



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1303.467	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2221.867	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12209.600	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1608.000	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2213.333	47.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5683.080	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8941.720	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12148.000	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

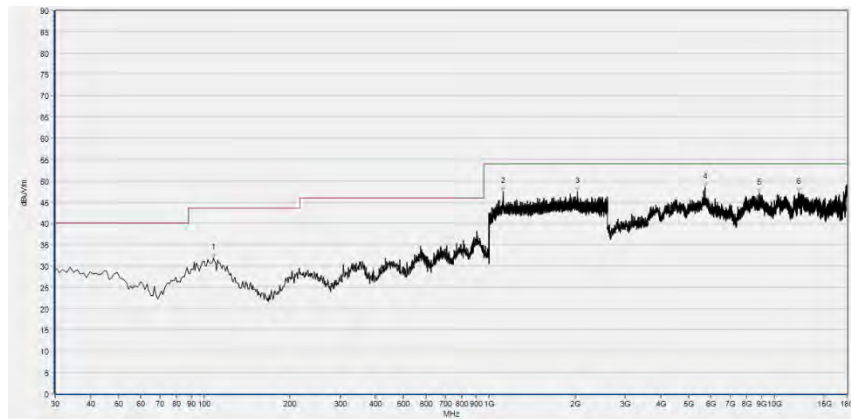
**8-DPSK Mode**

Plots for Channel 0



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1918.400	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2450.133	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5680.000	47.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7971.520	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12154.160	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

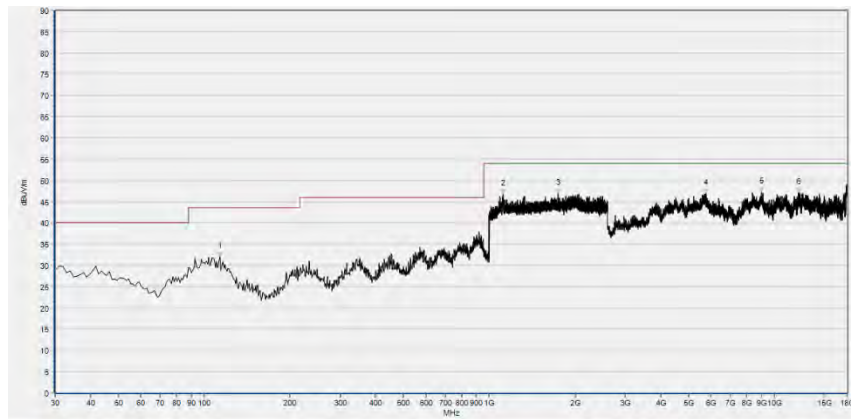


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1119.467	47.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2040.533	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8861.640	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12157.240	47.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

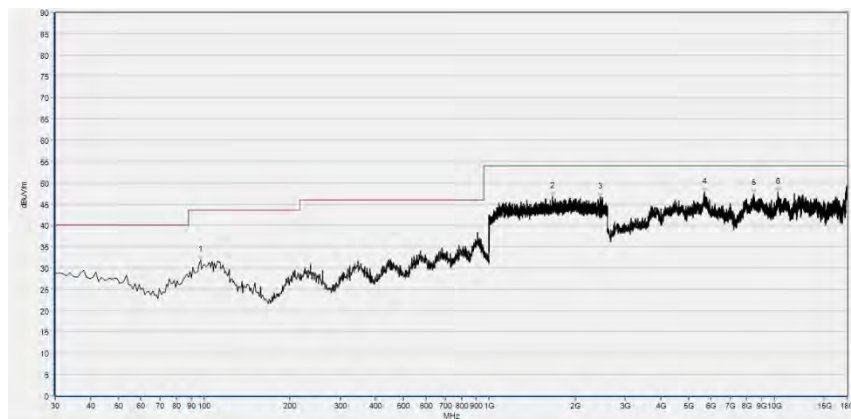


Plot for Channel 39



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1116.267	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1748.800	46.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5744.680	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9009.480	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12135.680	47.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	31.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1665.600	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2448.000	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8458.160	47.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10269.200	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

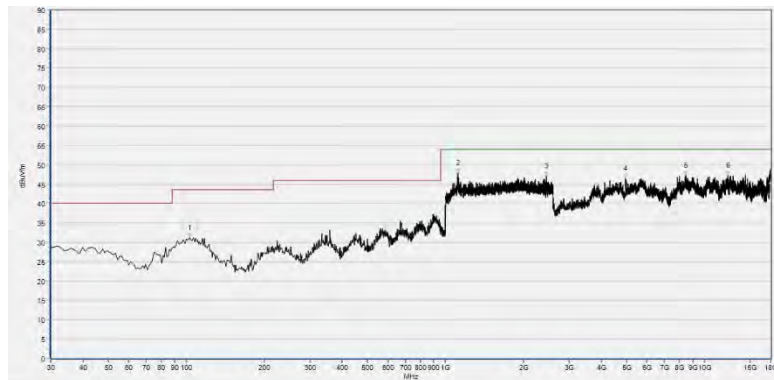


Plot for Channel 78



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1355.200	46.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2389.867	47.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5664.600	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7943.800	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10278.440	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1116.267	47.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2449.067	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4959.280	46.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8442.760	47.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12308.160	47.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT