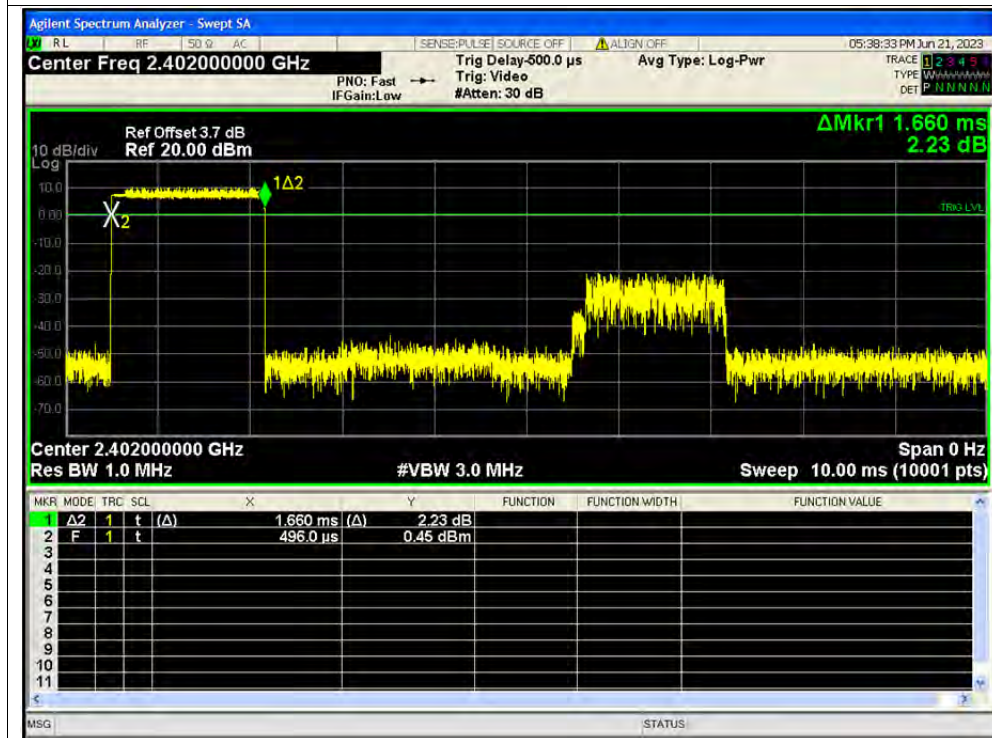


Dwell NVNT 3-DH3 2402MHz Ant1 One Burst

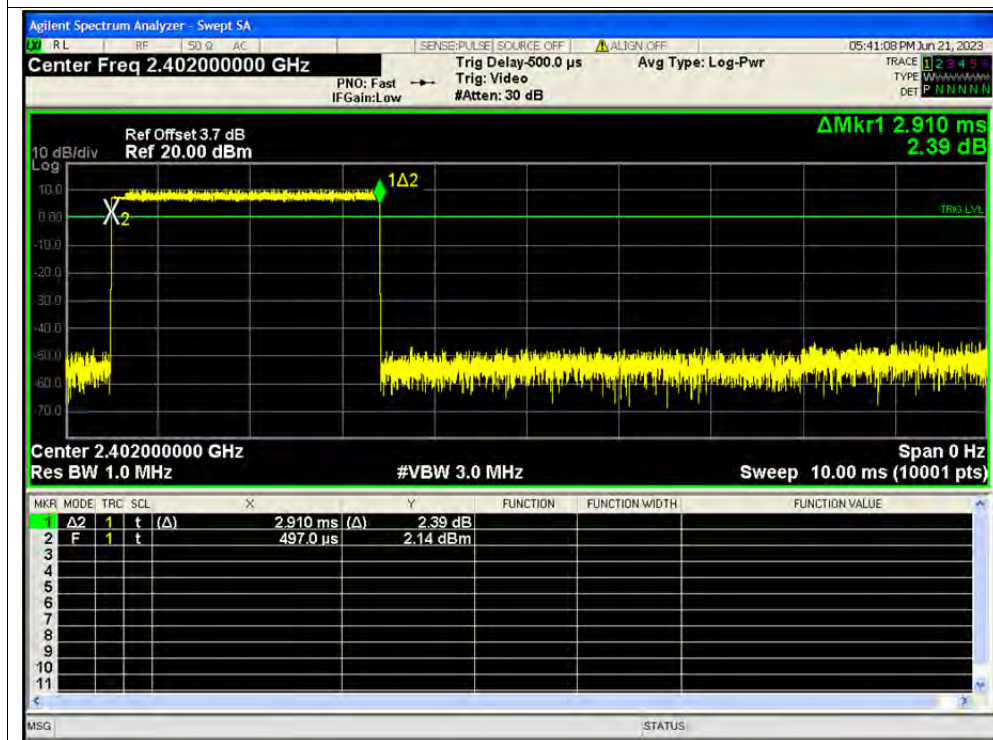


Dwell NVNT 3-DH3 2402MHz Ant1 Accumulated

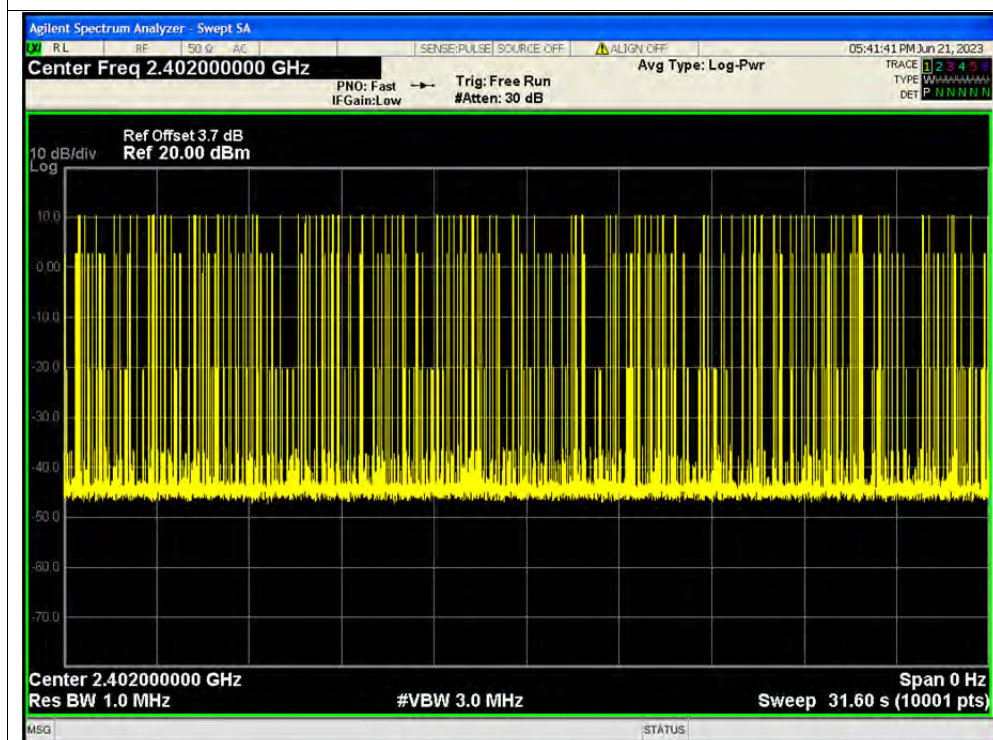




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



**A.8. Conducted Spurious Emissions**

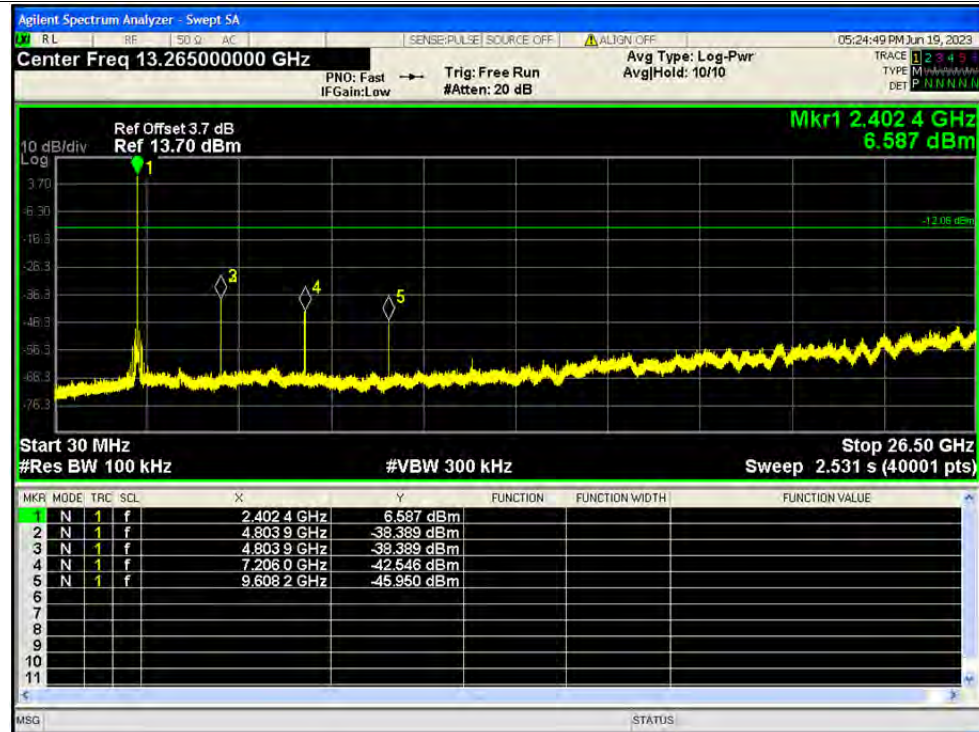
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.32	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.46	-20	Pass
NVNT	1-DH5	2480	Ant1	-43.29	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.12	-20	Pass
NVNT	2-DH5	2441	Ant1	-45.41	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.1	-20	Pass
NVNT	3-DH5	2402	Ant1	-46.87	-20	Pass
NVNT	3-DH5	2441	Ant1	-46.47	-20	Pass
NVNT	3-DH5	2480	Ant1	-45.21	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



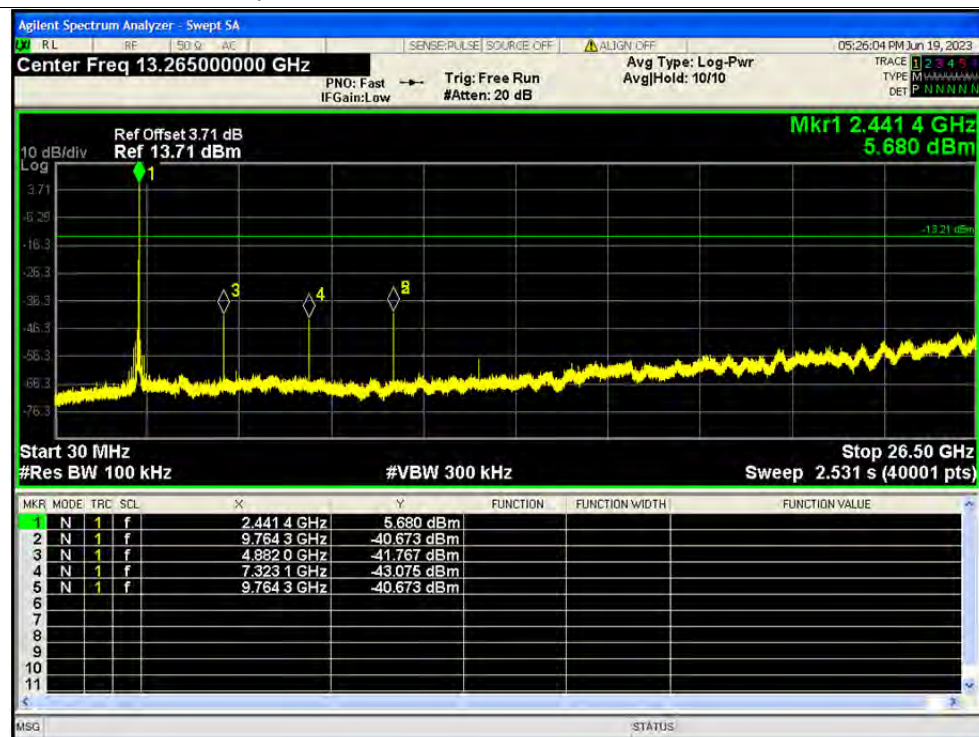
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



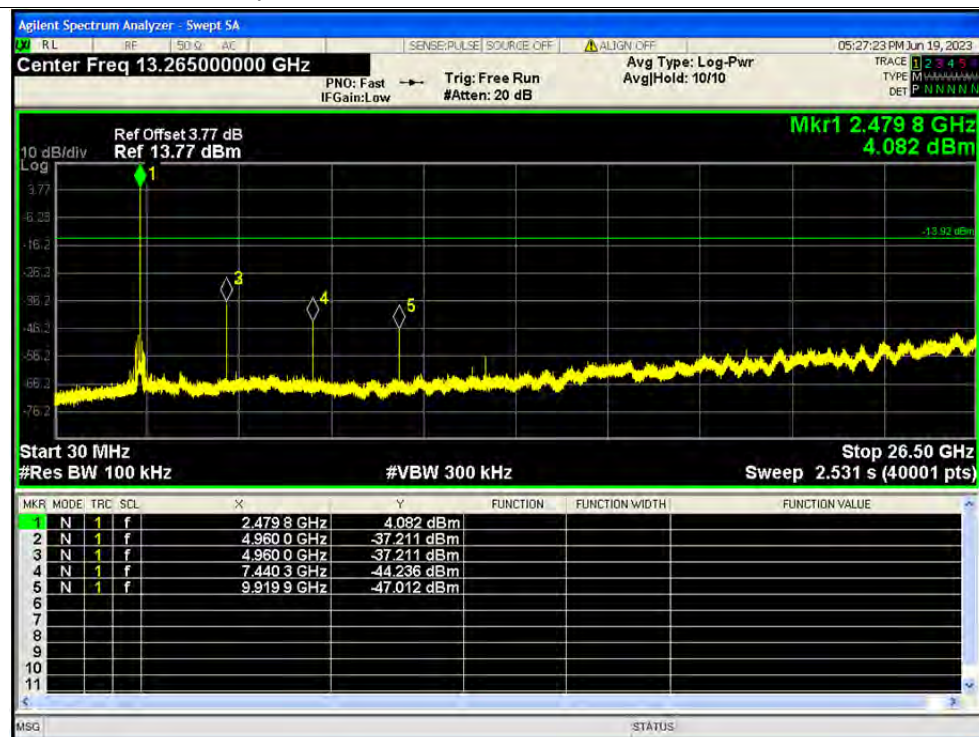
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



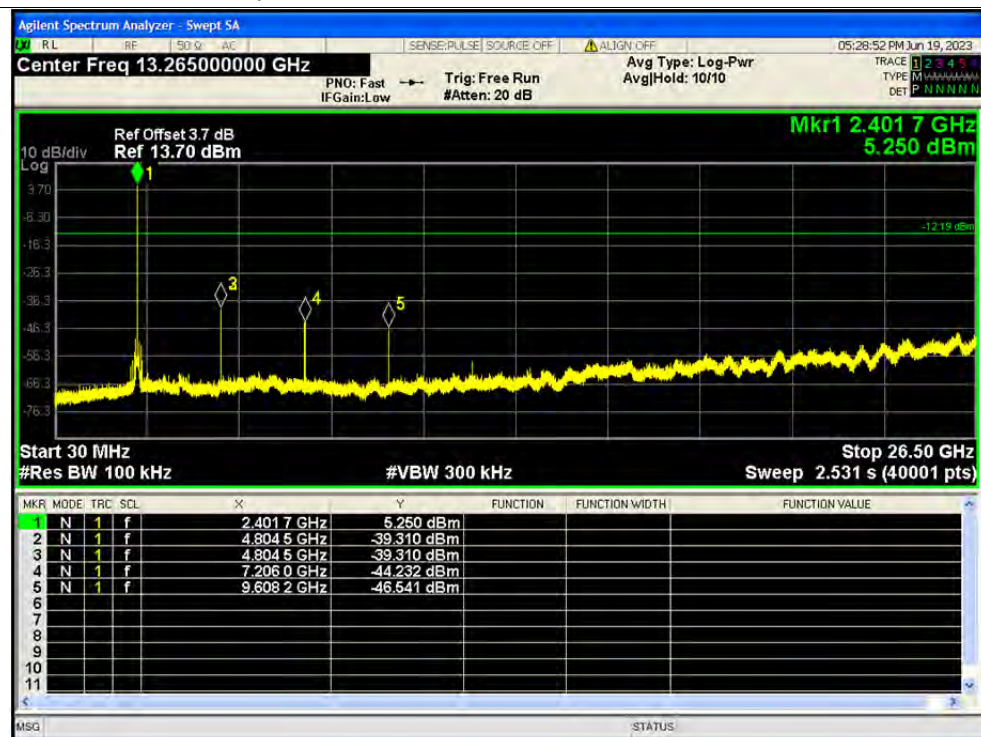
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



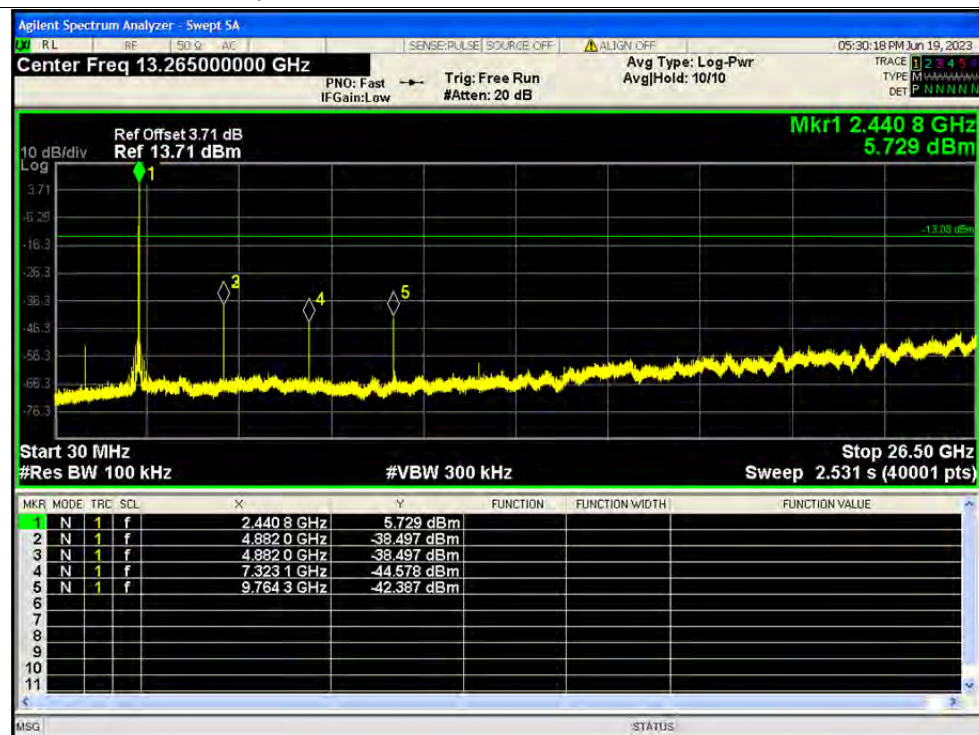
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



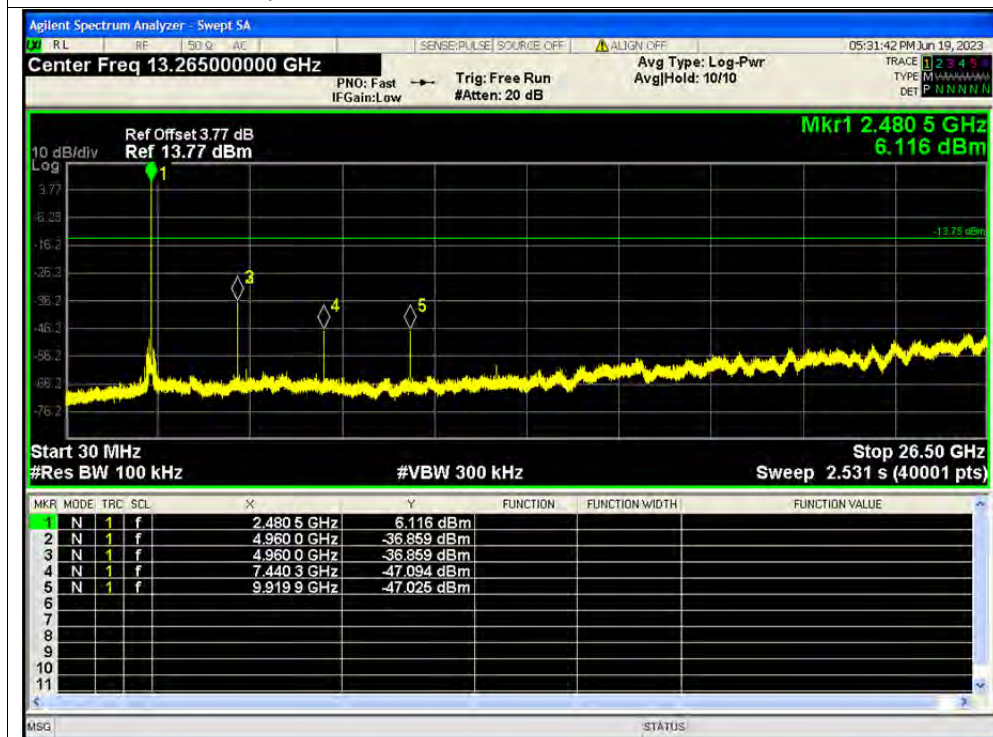
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



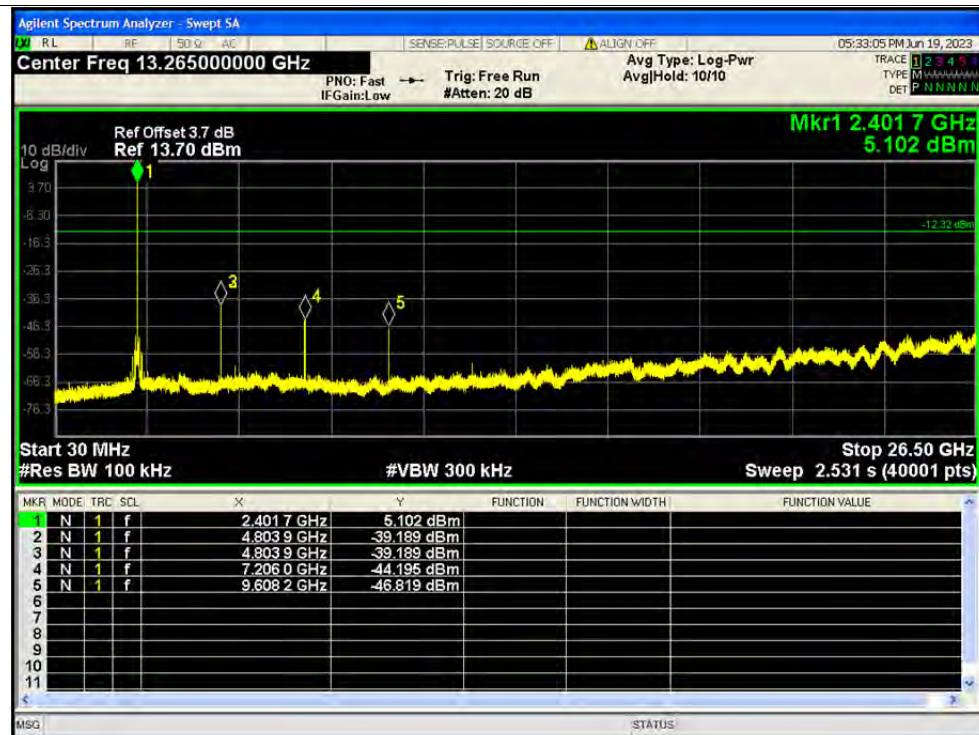
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



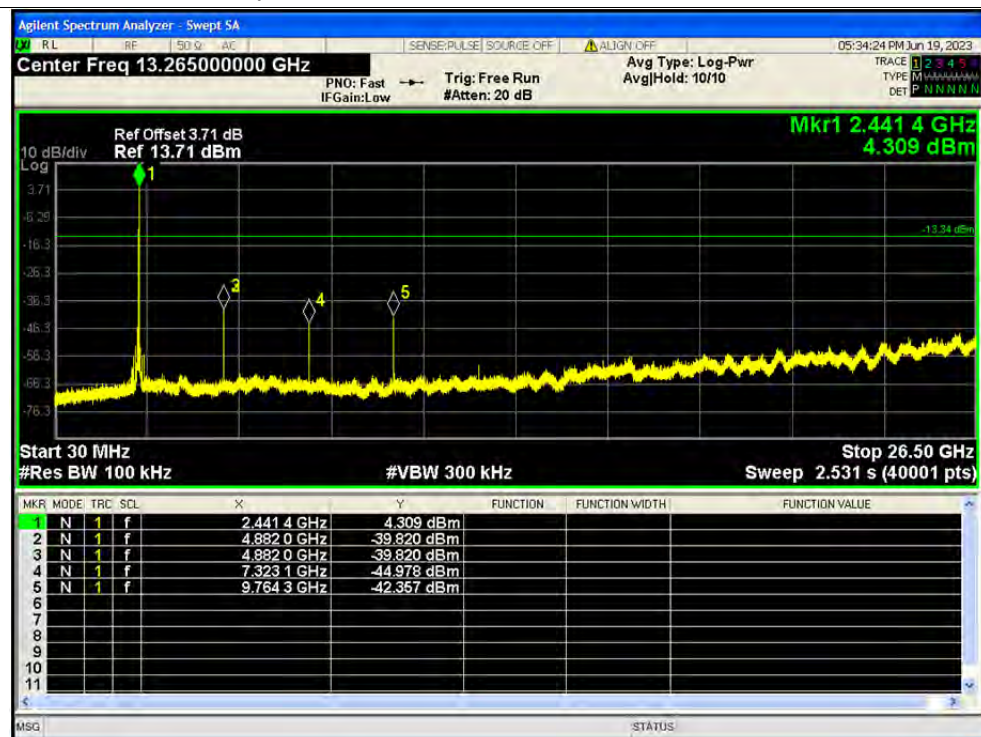
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



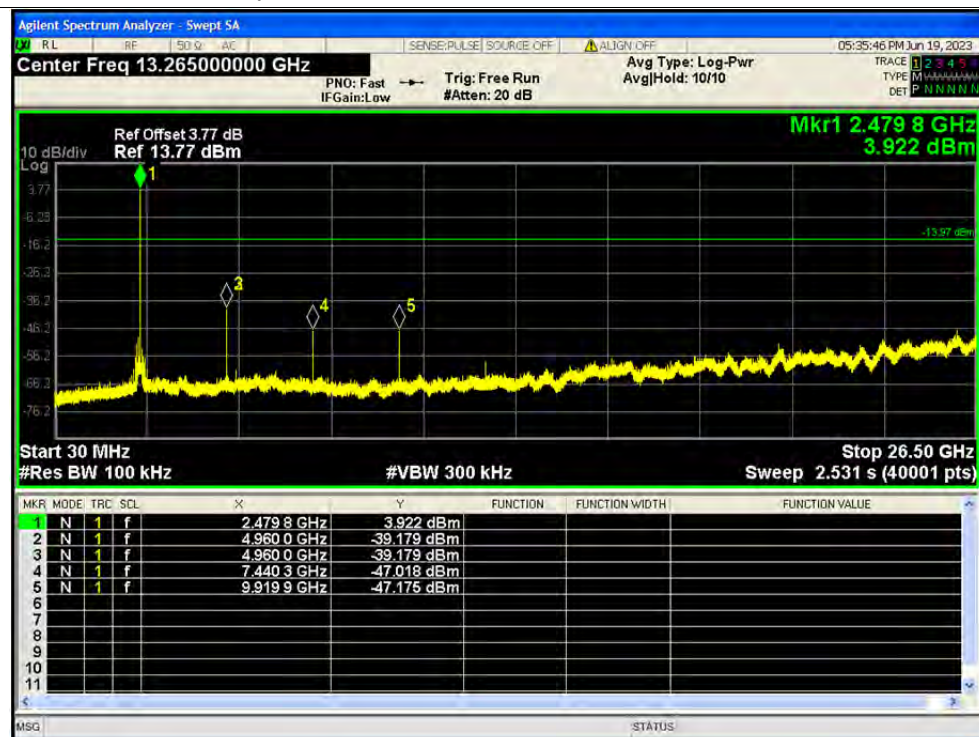
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



**A.9. Band Edge**

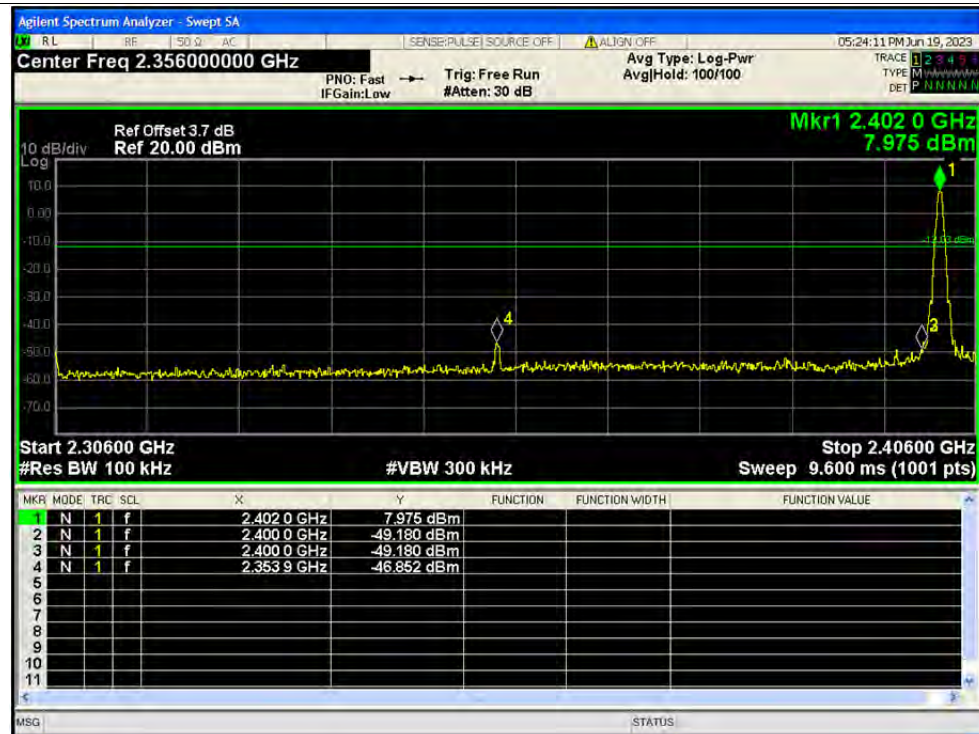
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.82	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.47	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.55	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.44	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.66	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.47	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-53.54	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.09	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.23	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.11	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.43	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.08	-20	Pass

Test Graphs

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



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

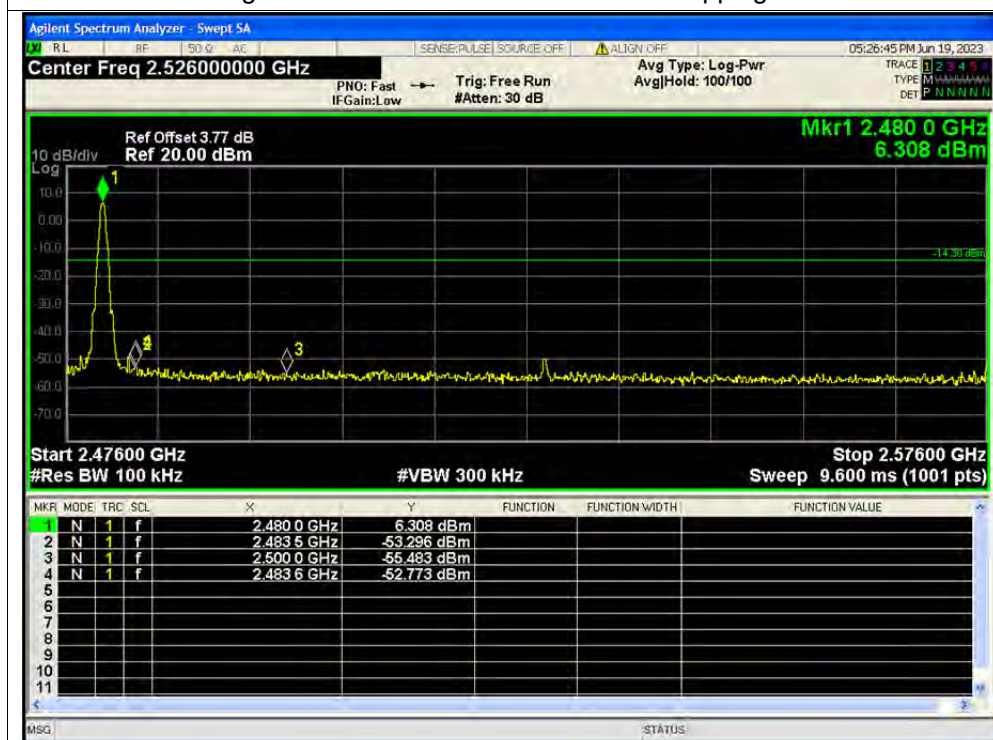




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



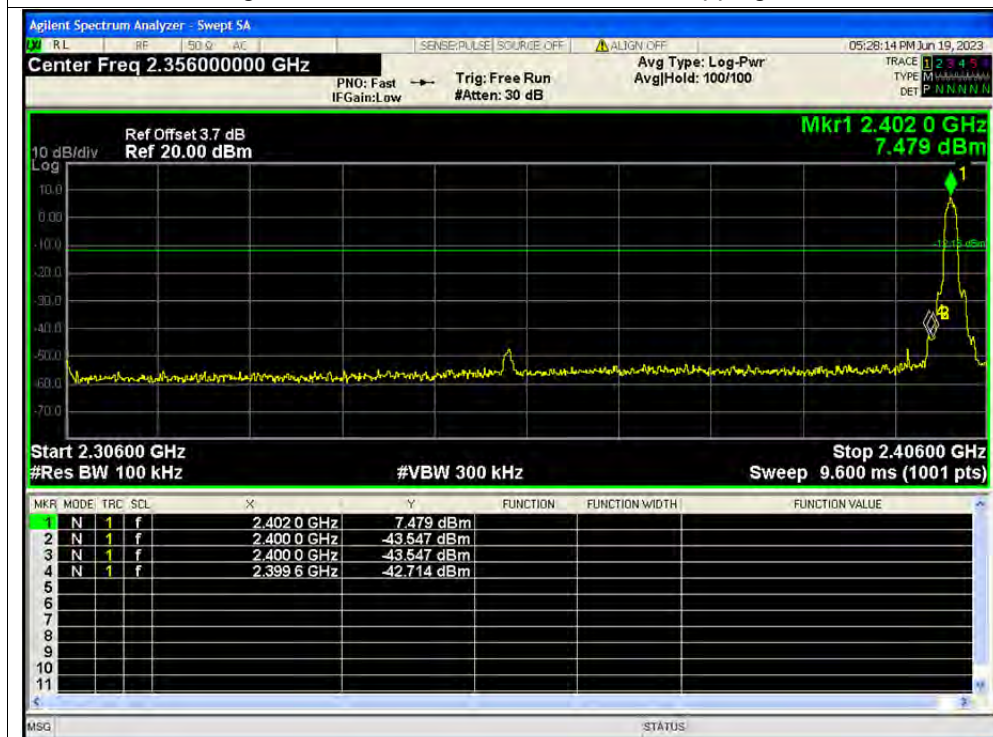
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



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



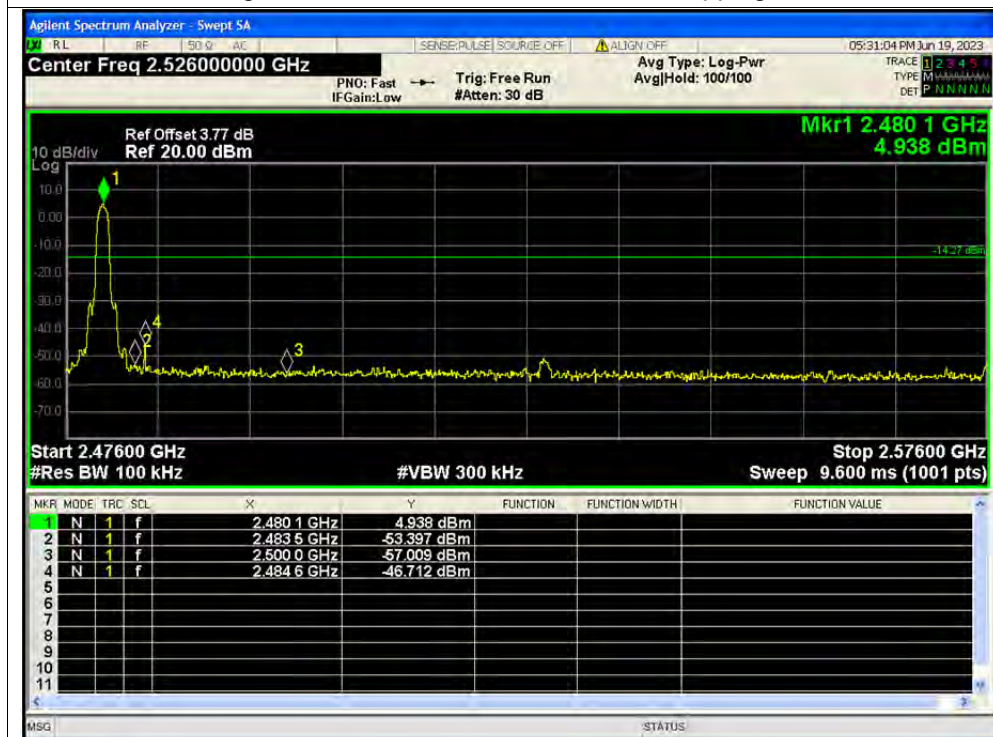
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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



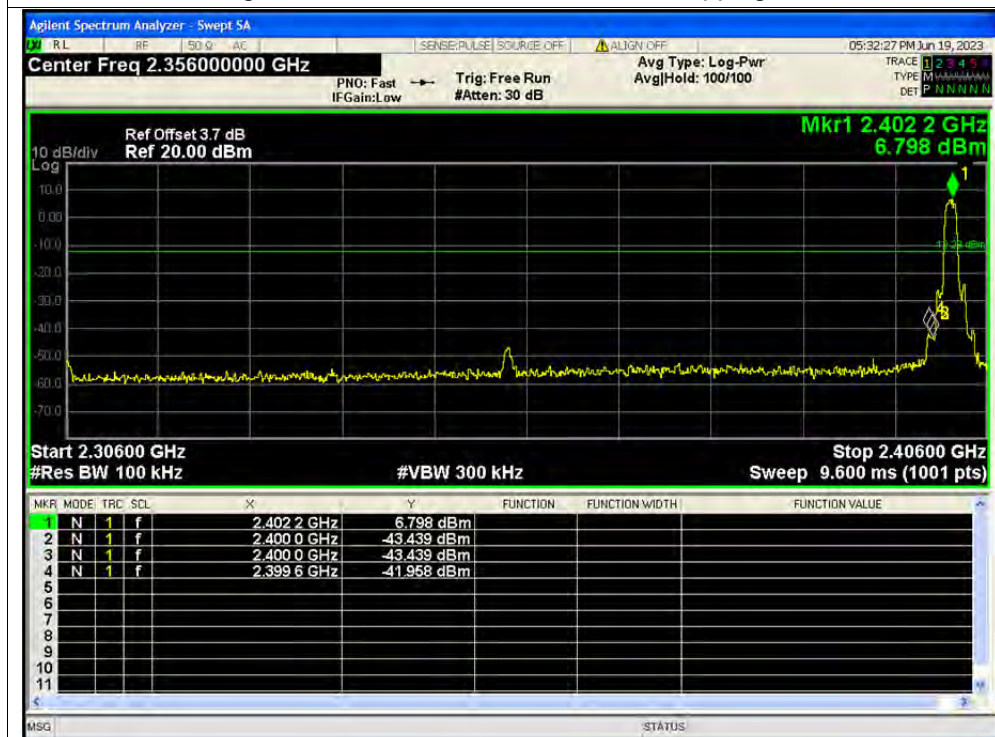
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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



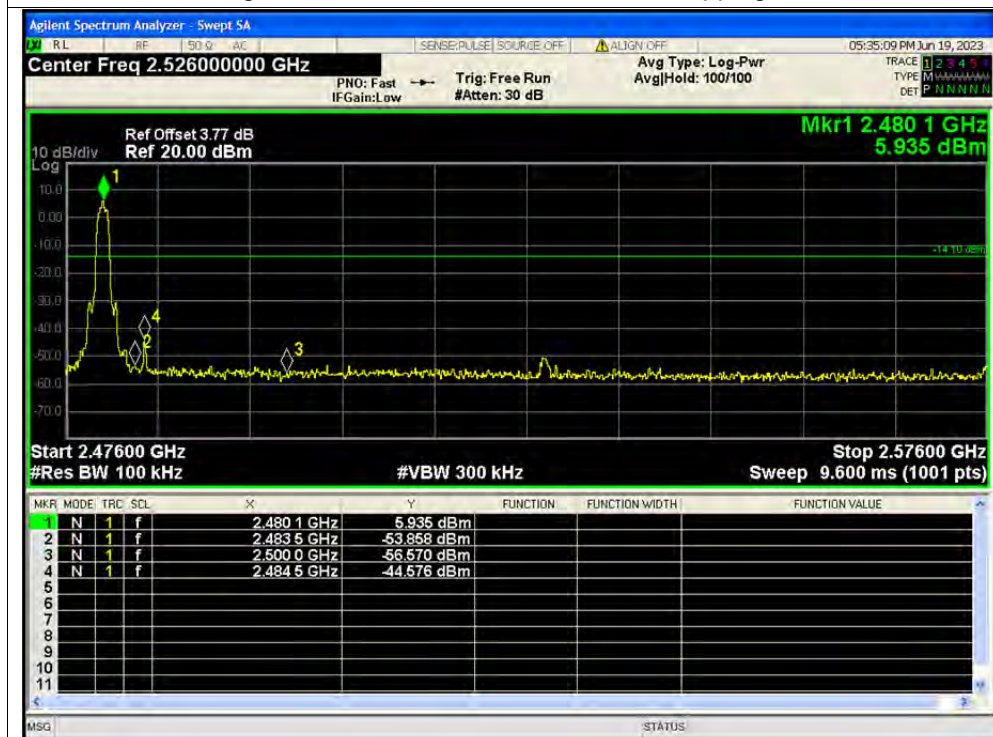
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

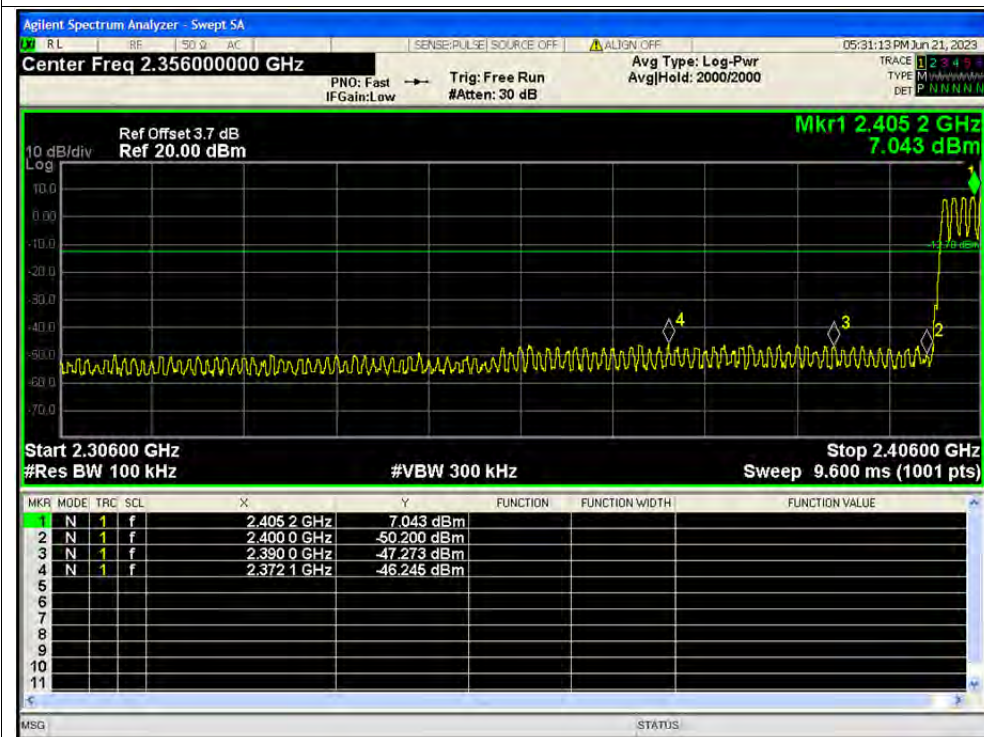


Test Graphs

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



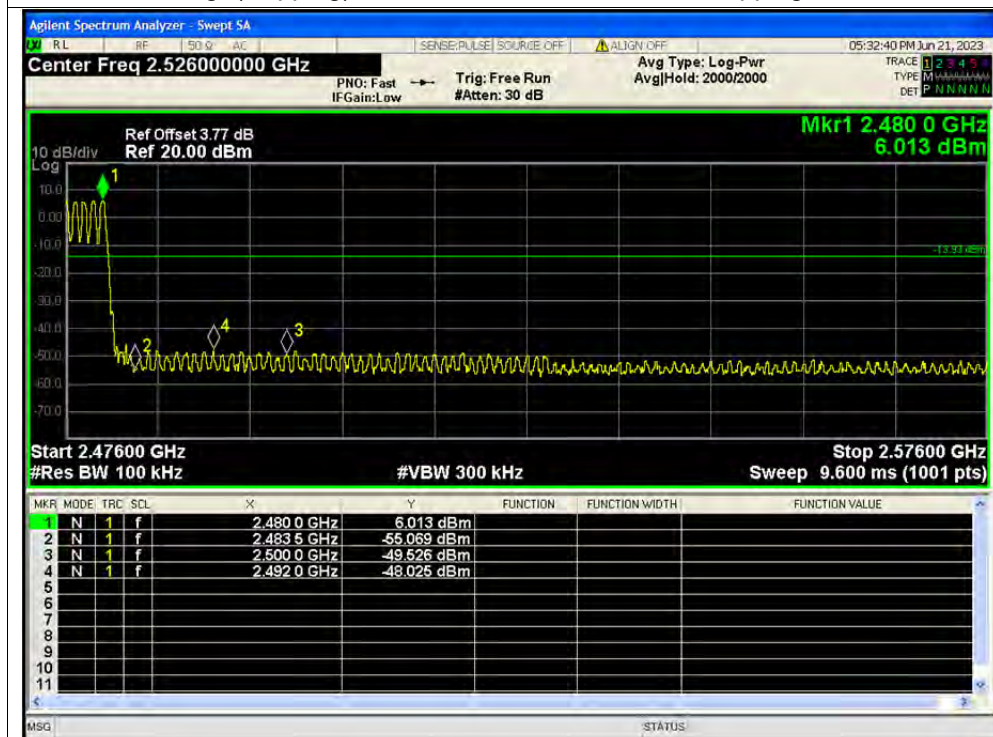
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



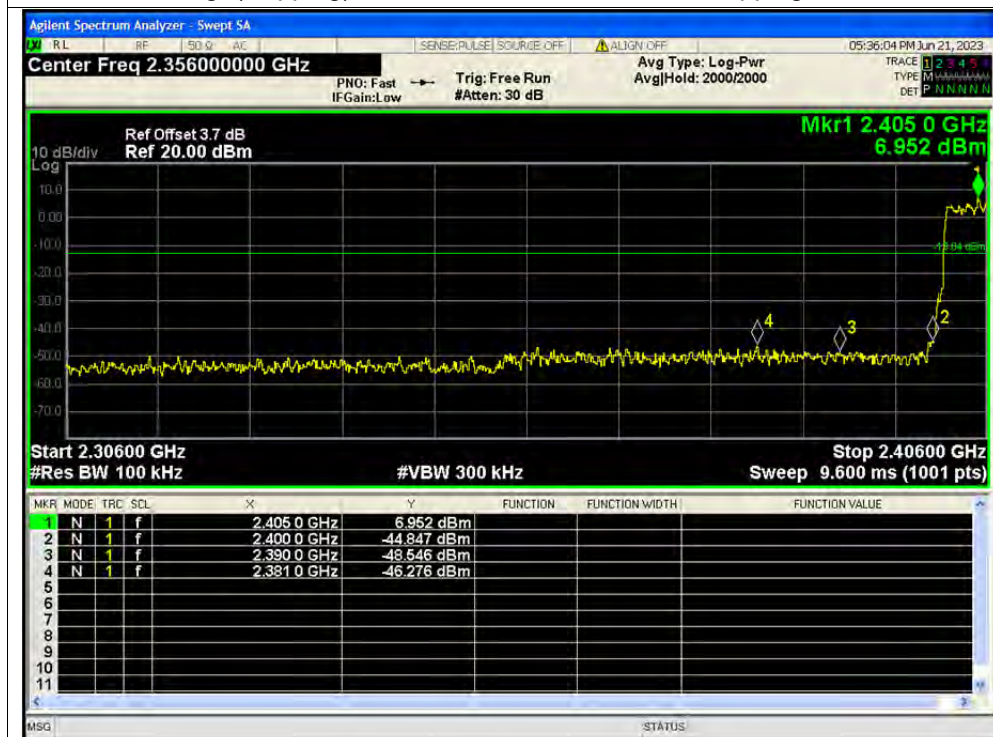
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



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

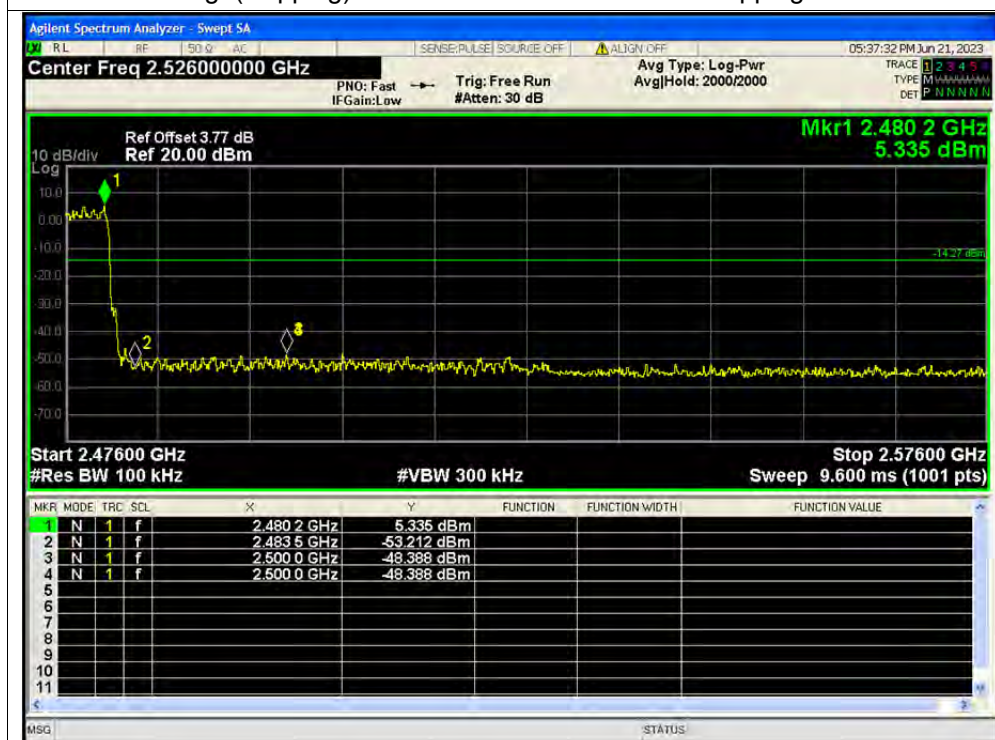




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

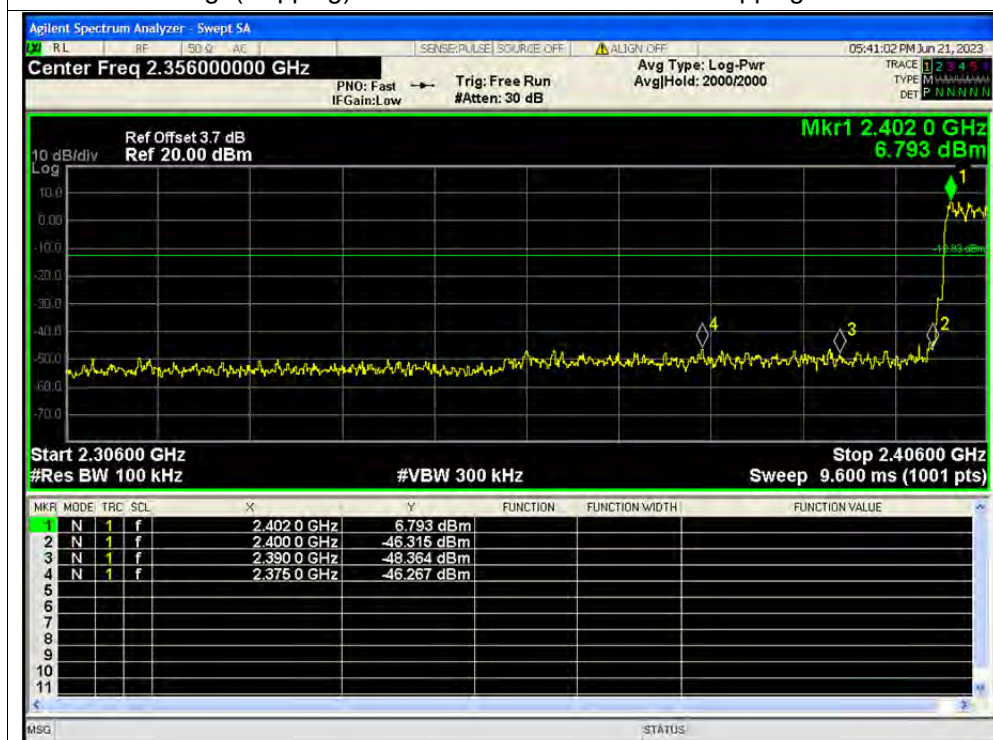




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



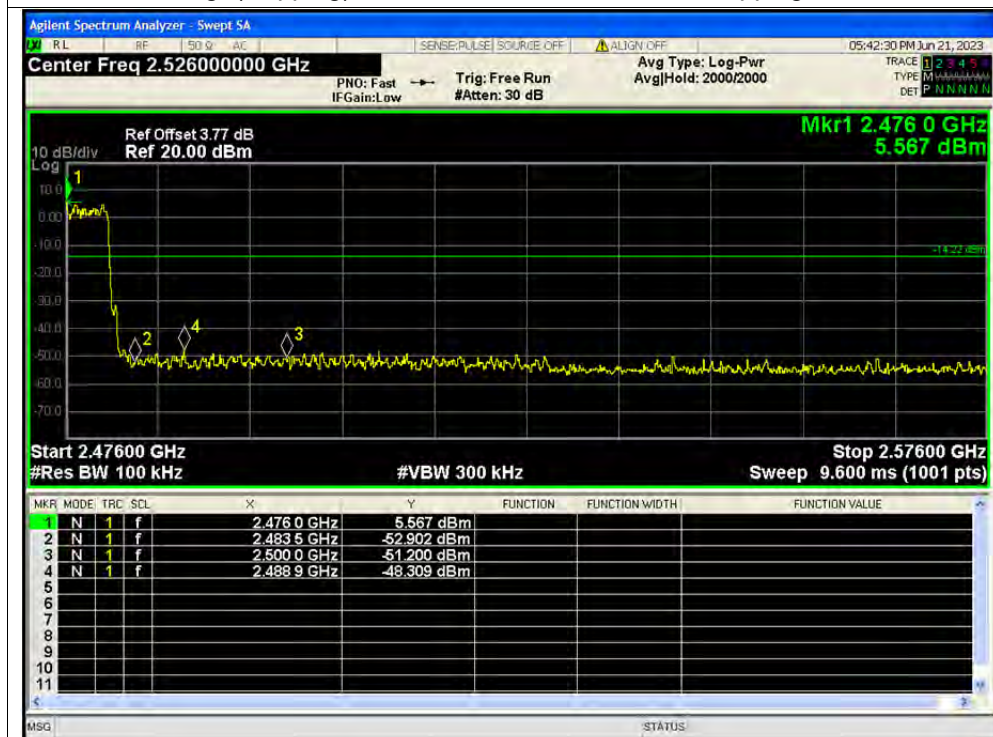
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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





REPORT No.: SZ23060064W02

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

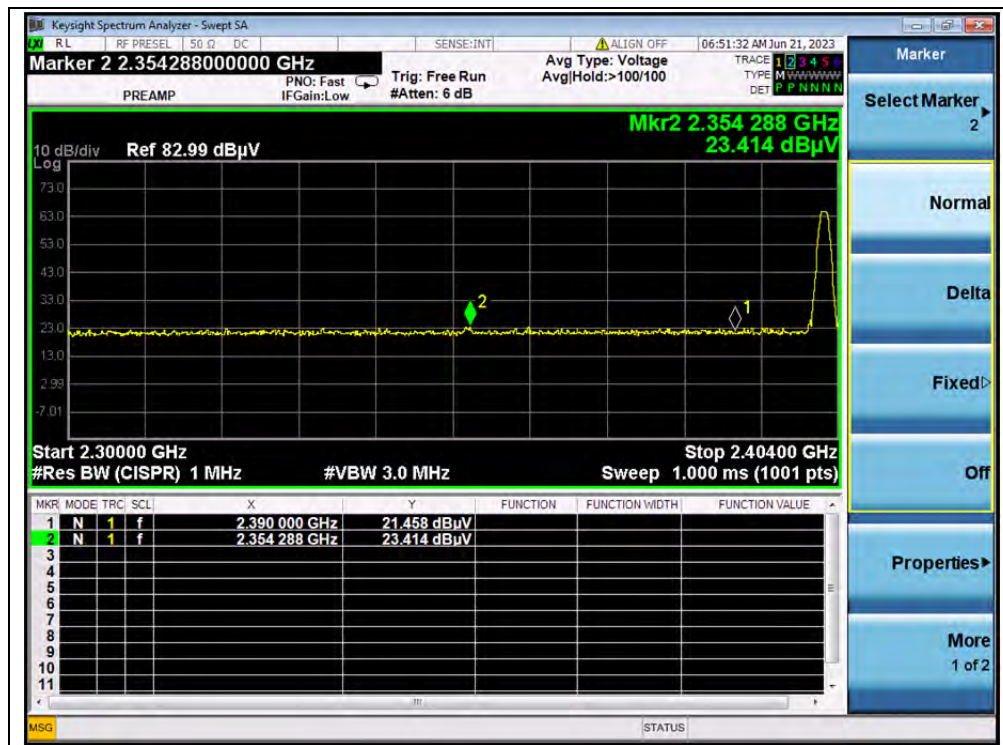
A_{Factor} : Antenna Factor at 3m

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.

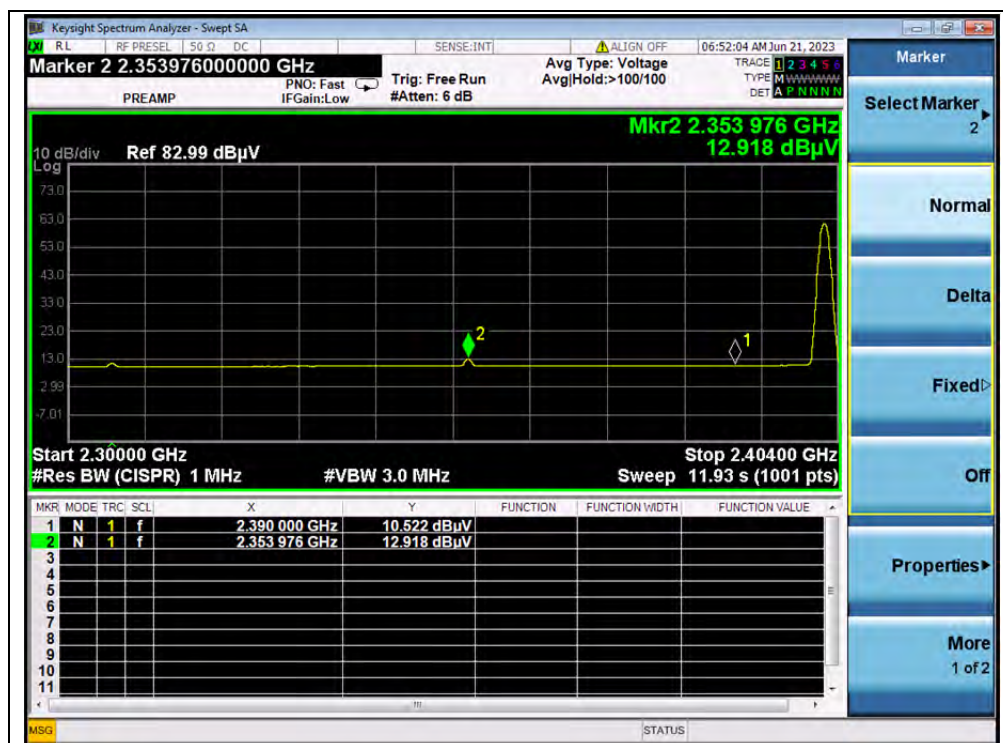
Left

GFSK Mode

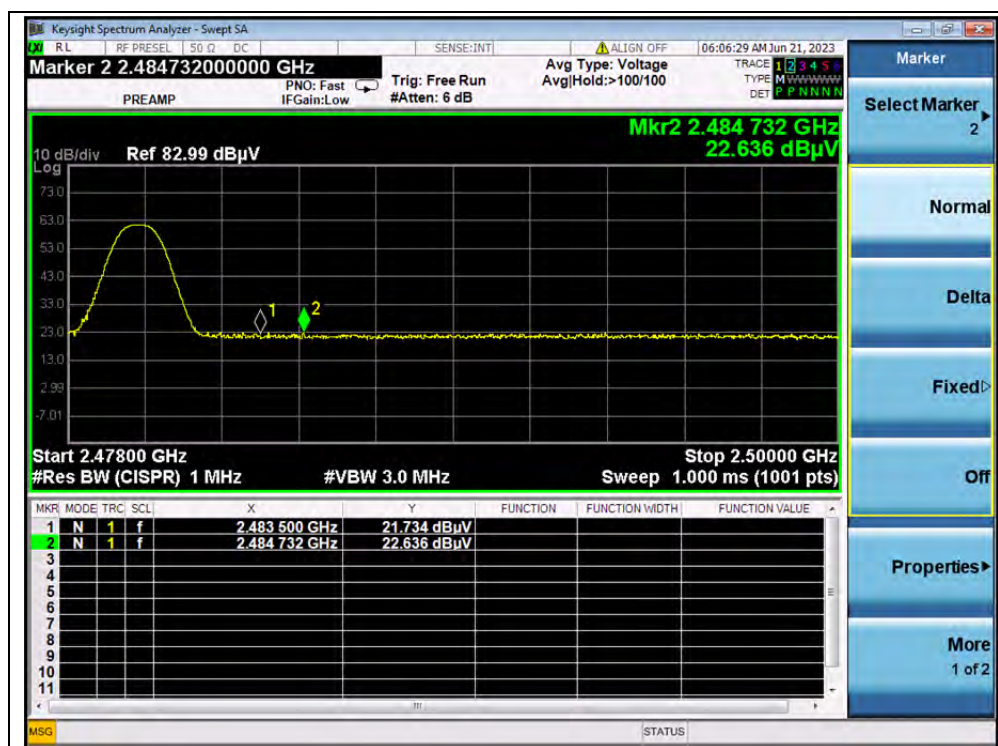
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2354.29	PK	23.41	6.74	27.20	57.35	74	PASS
0	2353.98	AV	12.92	6.74	27.20	46.86	54	PASS
78	2484.732	PK	22.64	6.74	27.20	56.58	74	PASS
78	2483.54	AV	10.16	6.74	27.20	44.10	54	PASS



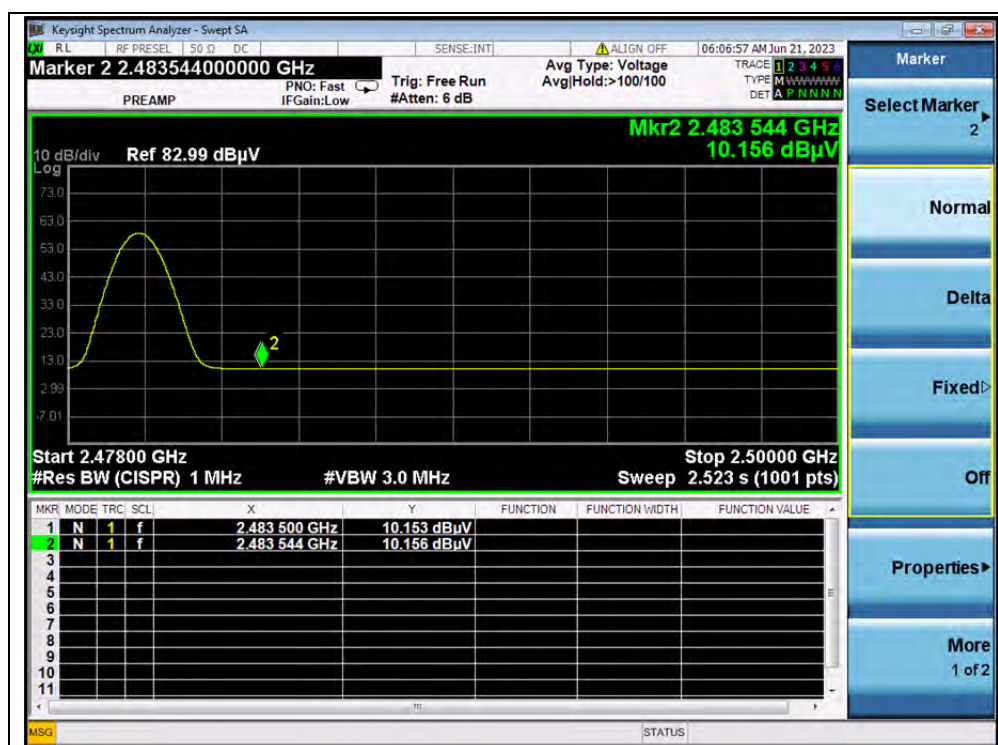
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

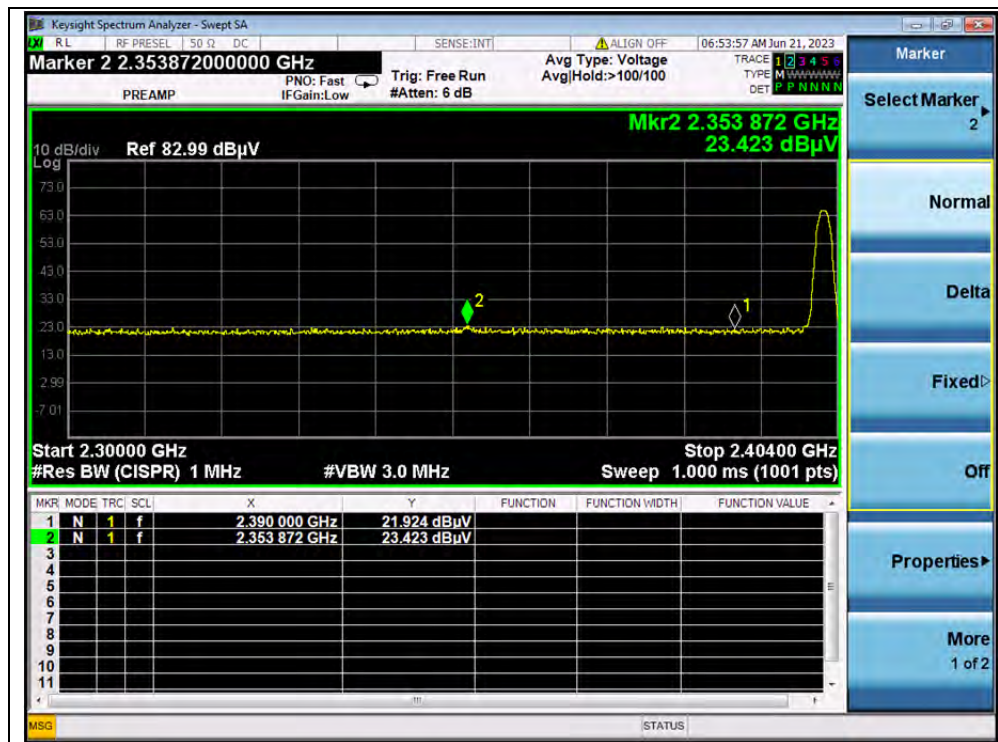


(AVERAGE, Channel 78, GFSK)

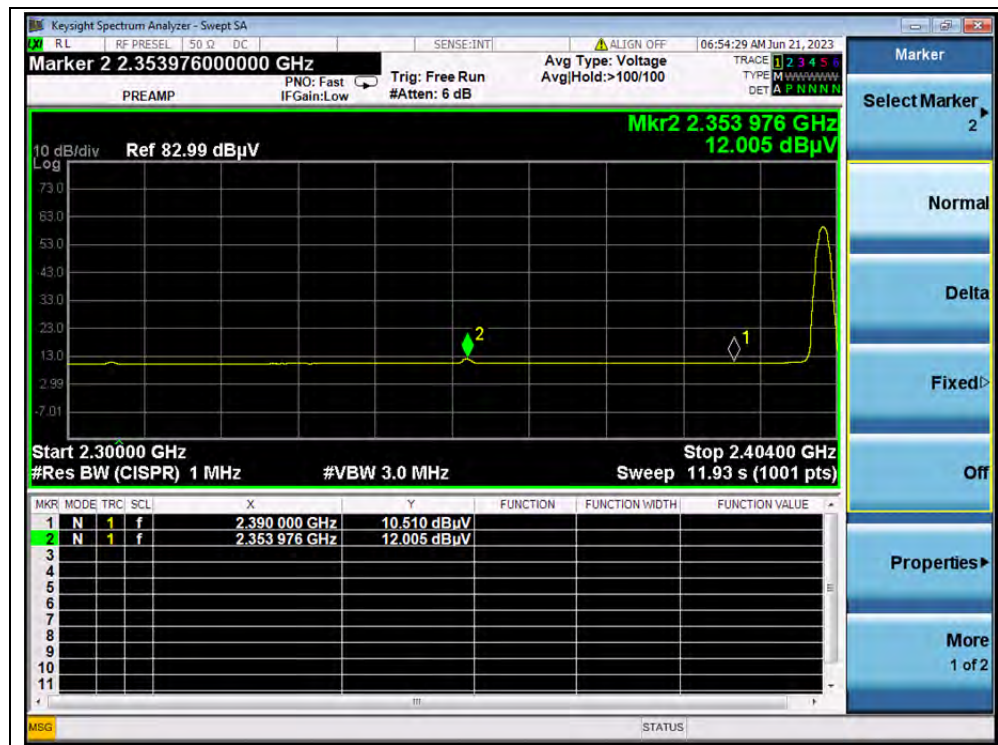
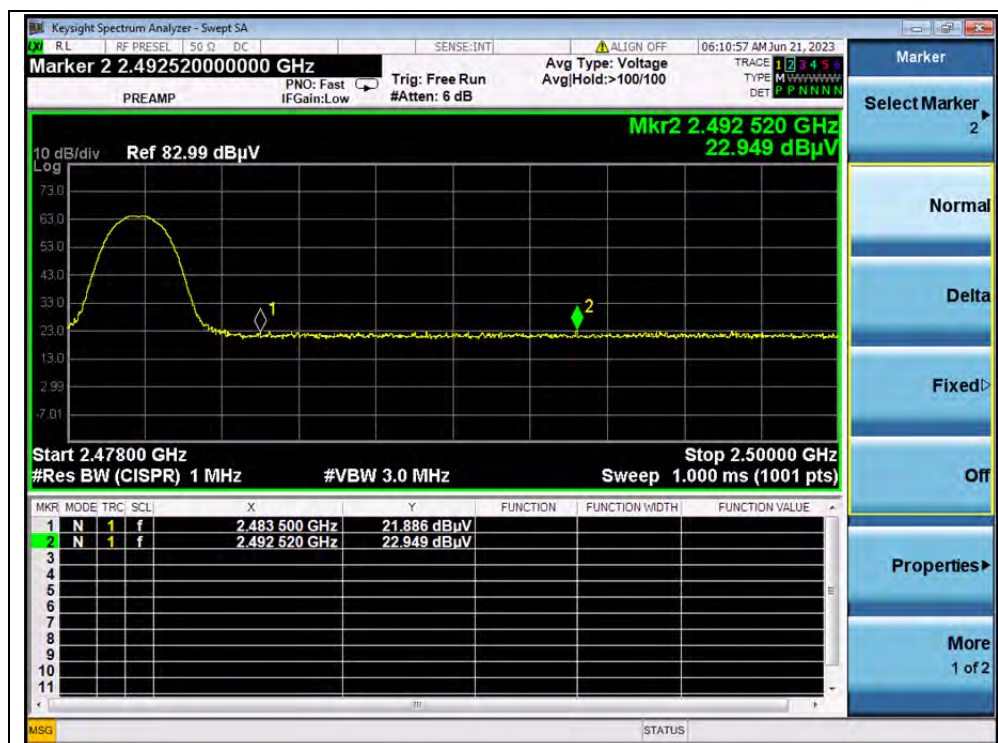


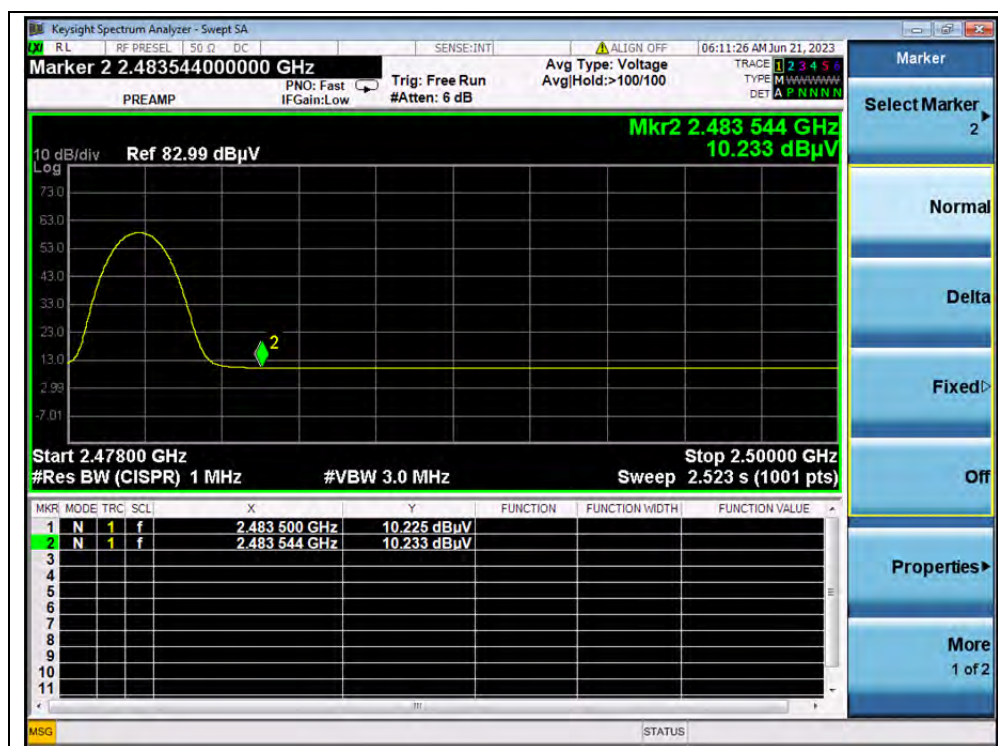
$\pi/4$ -DQPSK Mode

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	2353.87	PK	23.42	6.74	27.20	57.36	74	PASS
0	2353.98	AV	12.01	6.74	27.20	45.95	54	PASS
78	2492.52	PK	22.95	6.74	27.20	56.89	74	PASS
78	2483.54	AV	10.23	6.74	27.20	44.17	54	PASS



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

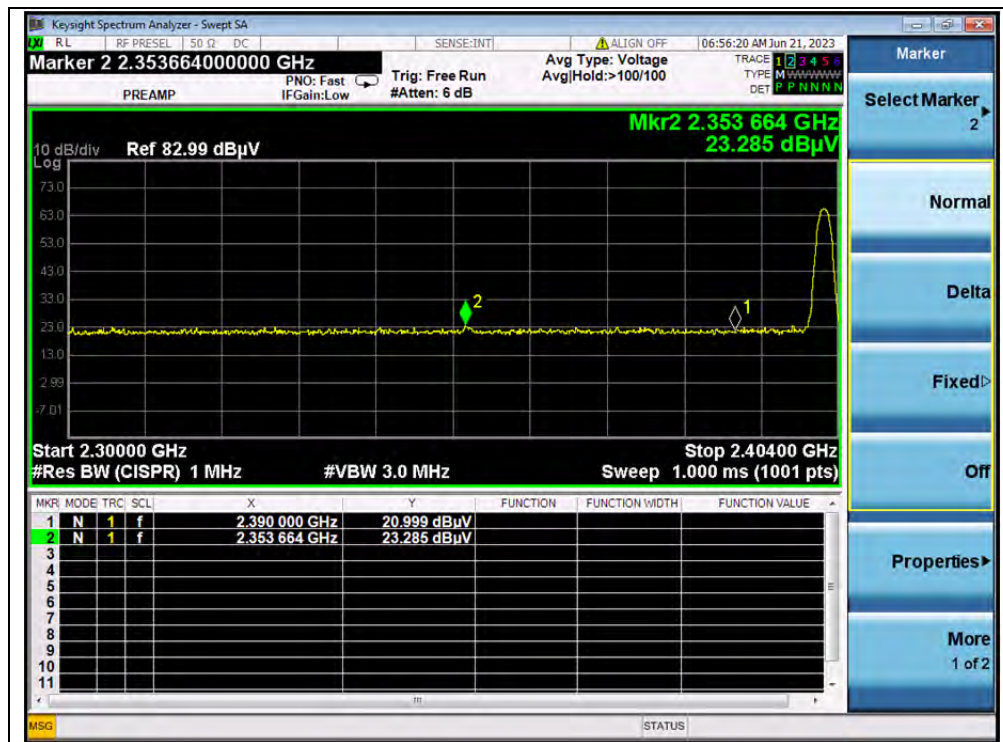

(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

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

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

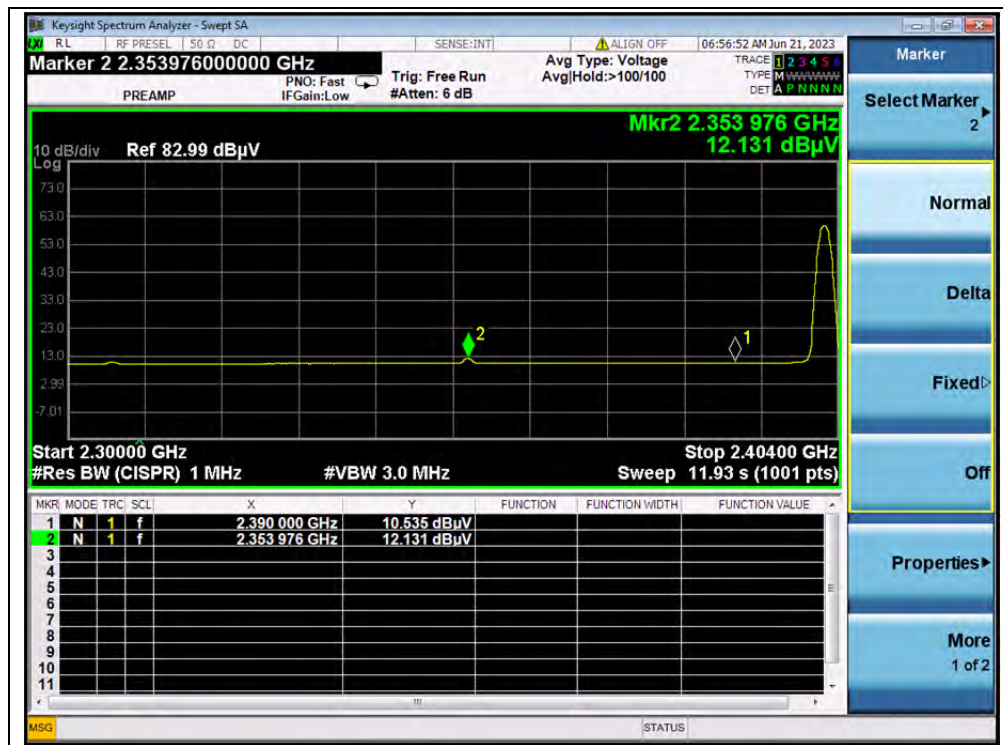


8-DPSK Mode

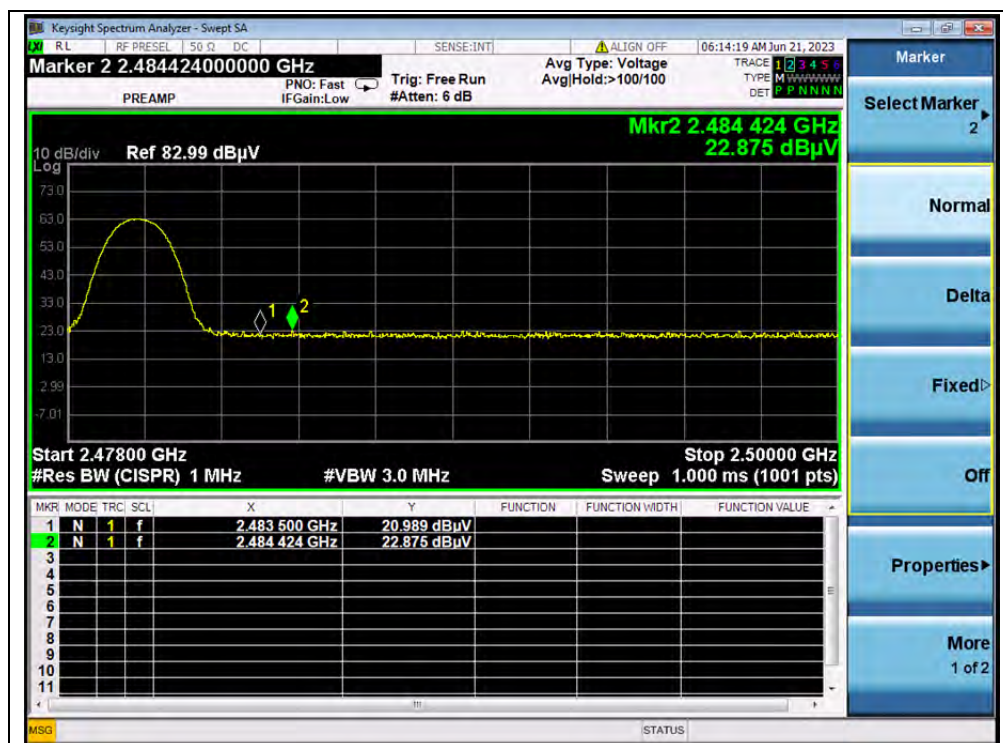
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2363.66	PK	23.29	6.74	27.20	57.23	74	PASS
0	2365.98	AV	12.13	6.74	27.20	46.07	54	PASS
78	2484.42	PK	22.88	6.74	27.20	56.82	74	PASS
78	2483.50	AV	10.16	6.74	27.20	44.10	54	PASS



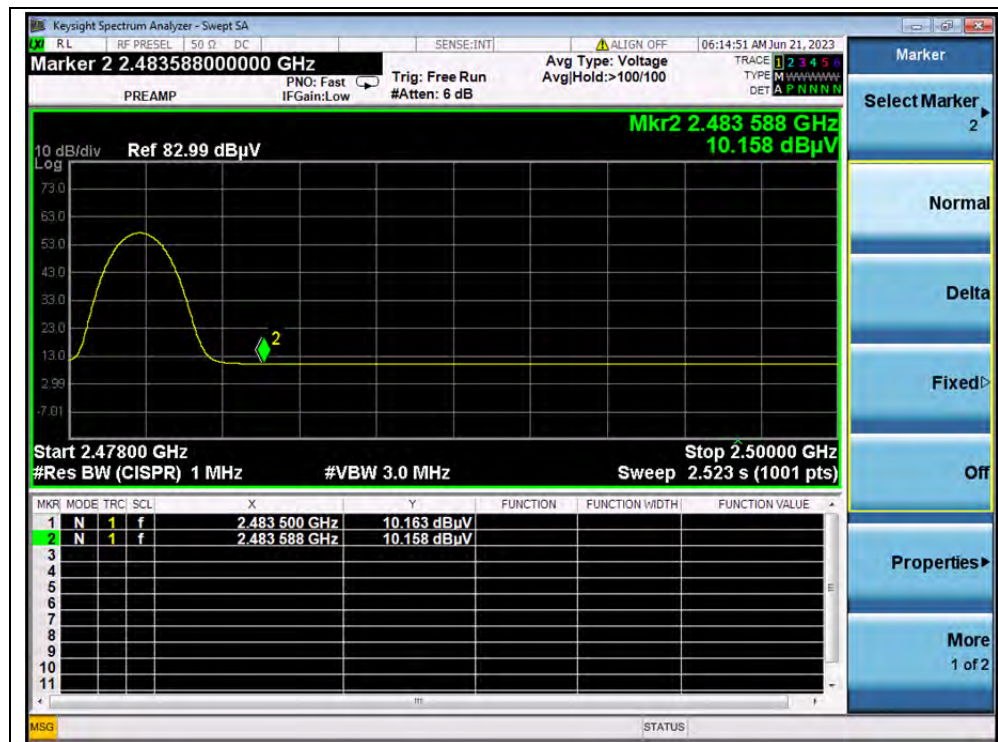
(PEAK, Channel 0, 8-DPSK)



(AVERAGE, Channel 0, 8-DPSK)



(PEAK, Channel 78, 8-DPSK)



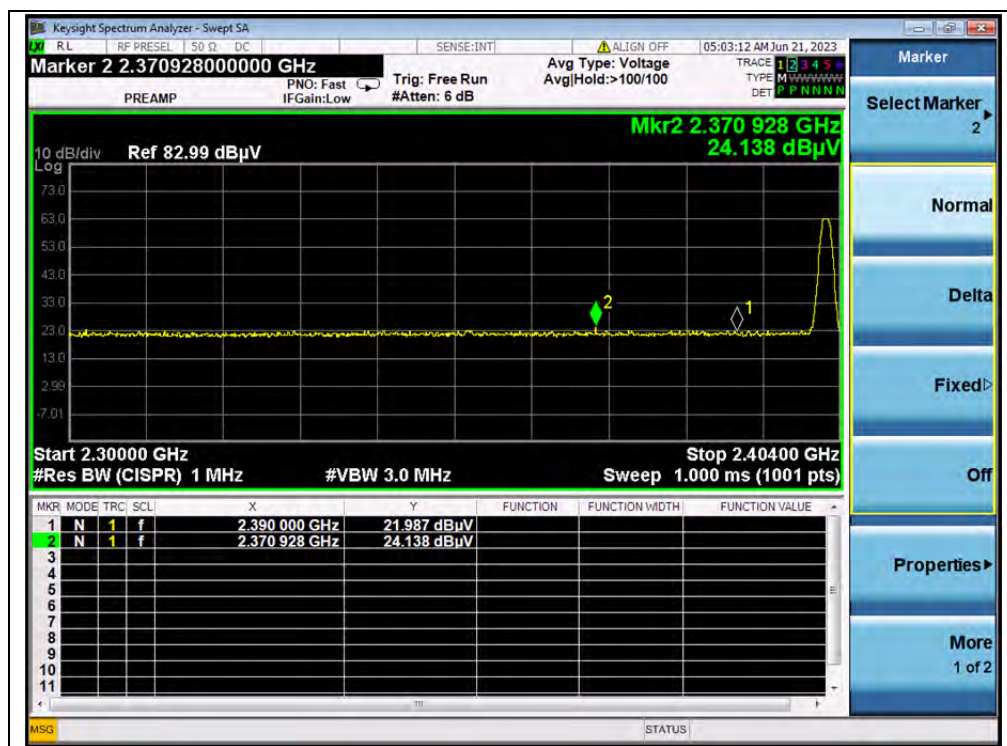
(AVERAGE, Channel 78, 8-DPSK)



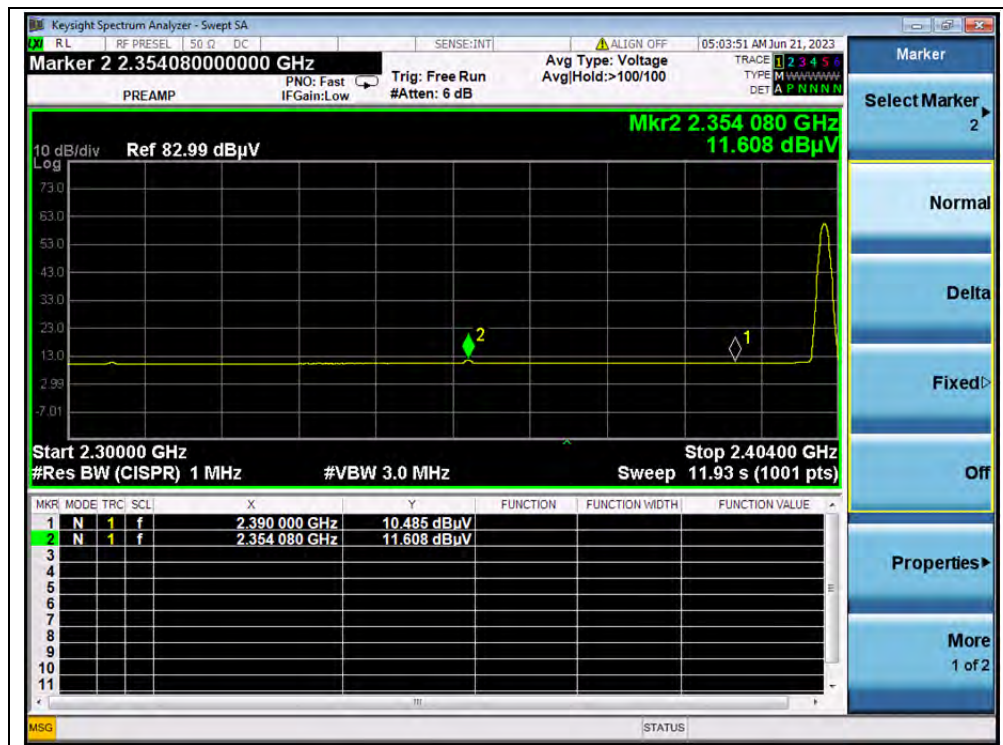
Right

GFSK Mode

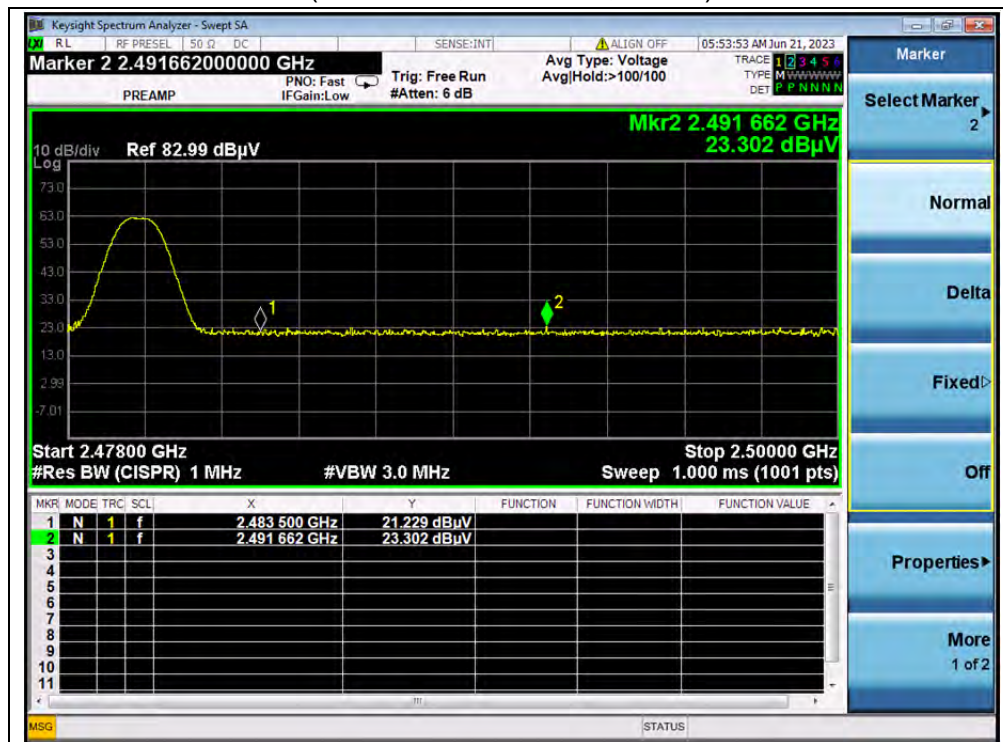
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
0	2370.93	PK	24.14	6.74	27.20	58.08	74	PASS
0	2354.08	AV	11.61	6.74	27.20	45.55	54	PASS
78	2491.66	PK	23.30	6.74	27.20	57.24	74	PASS
78	2483.50	AV	10.21	6.74	27.20	44.15	54	PASS



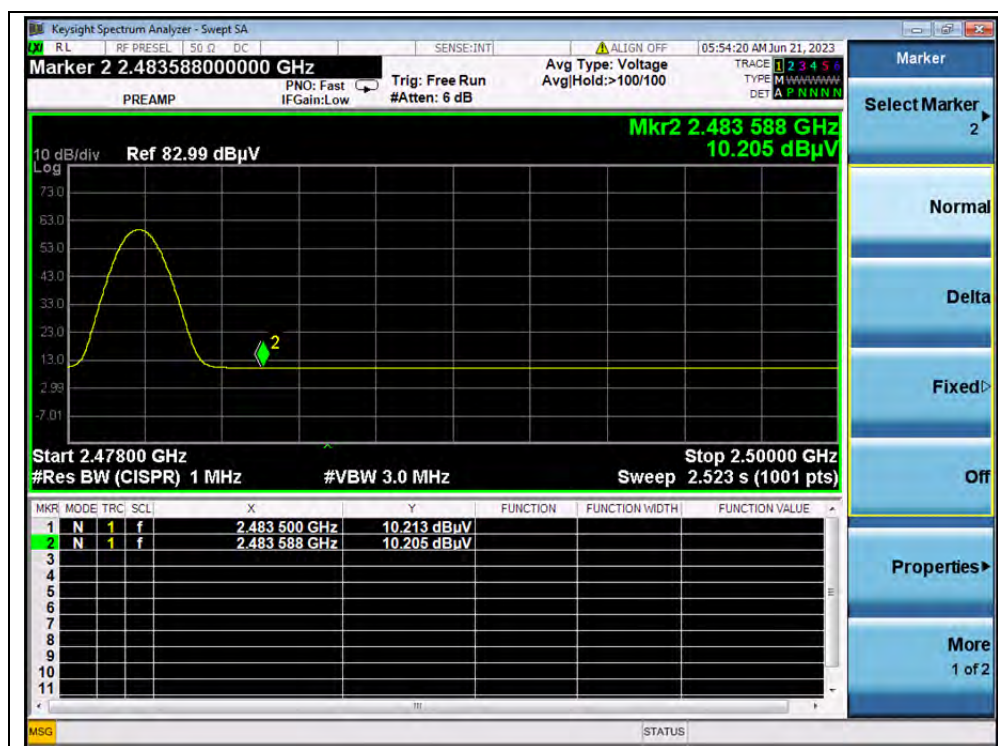
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

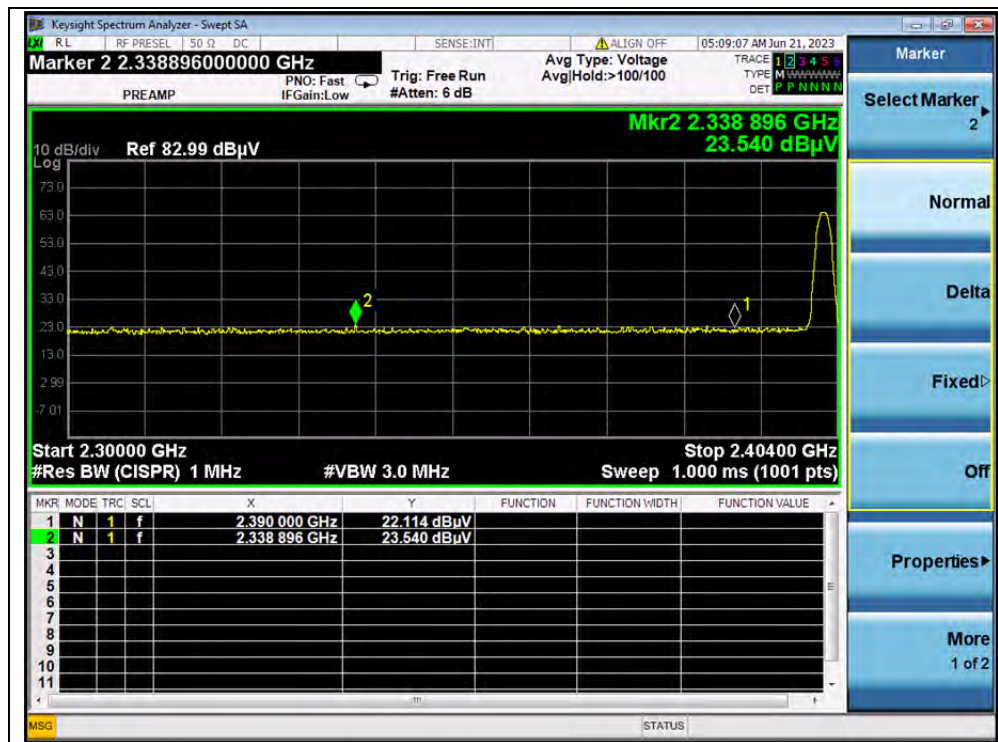


(AVERAGE, Channel 78, GFSK)

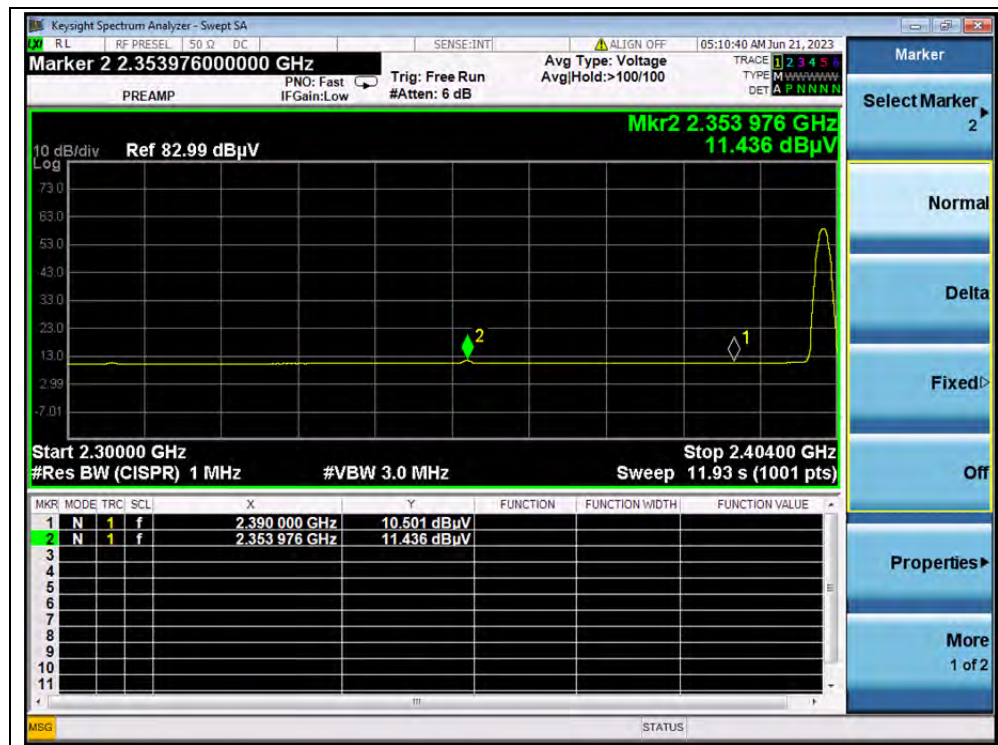
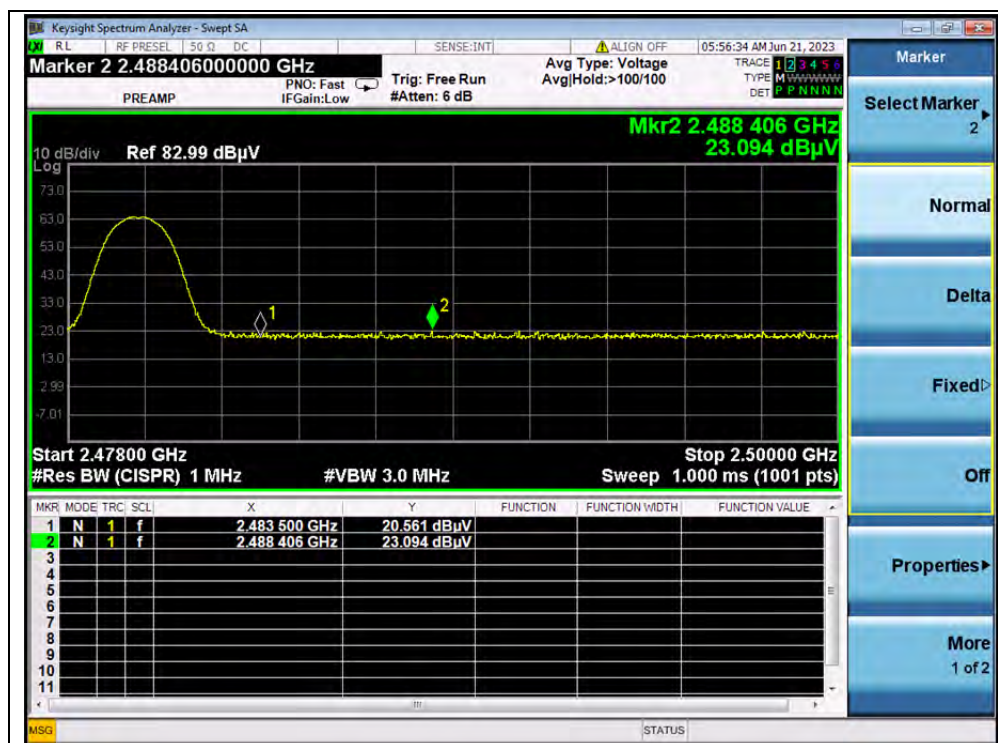


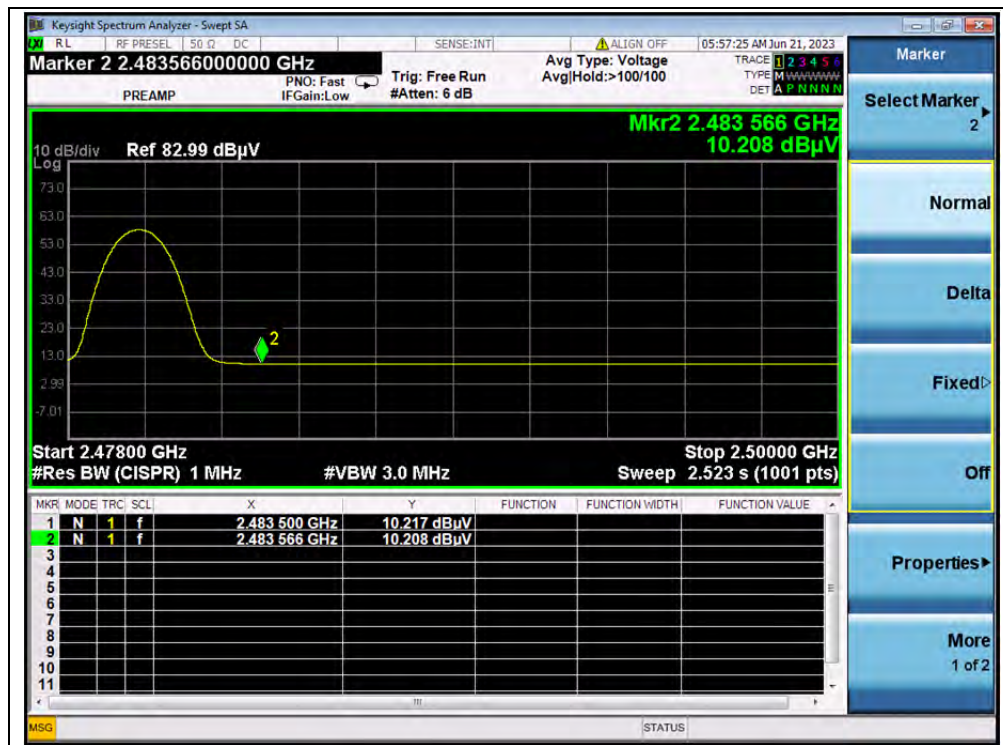
$\pi/4$ -DQPSK Mode

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	2338.90	PK	23.54	6.74	27.20	57.48	74	PASS
0	2353.98	AV	11.44	6.74	27.20	45.38	54	PASS
78	2488.41	PK	23.09	6.74	27.20	57.03	74	PASS
78	2483.50	AV	10.22	6.74	27.20	44.16	54	PASS



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

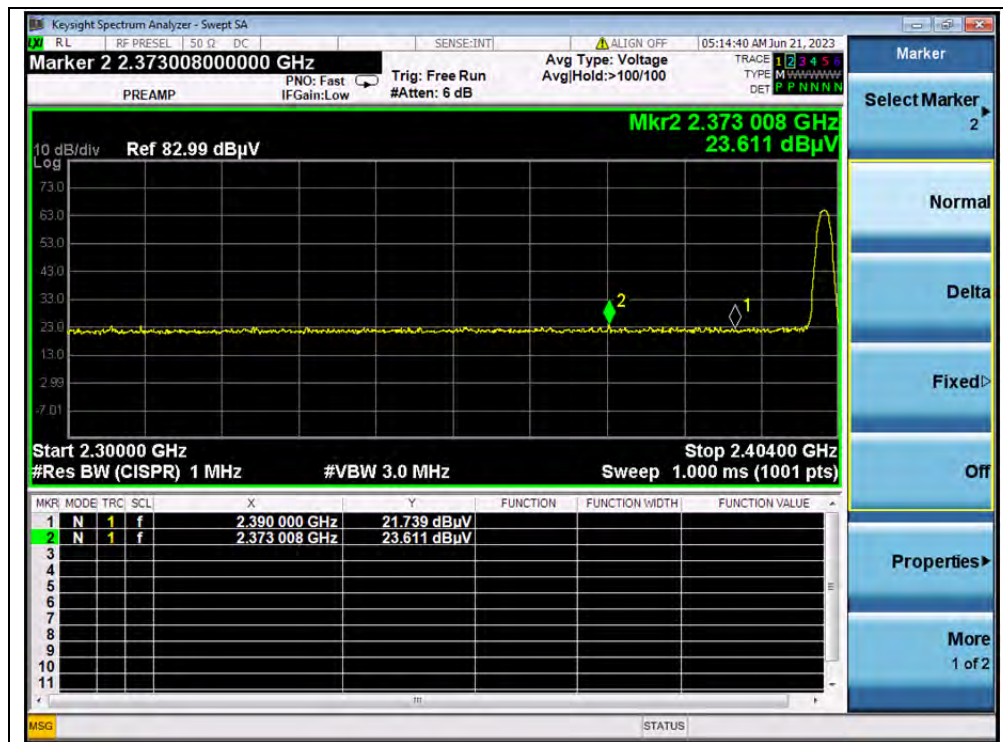

(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

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

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

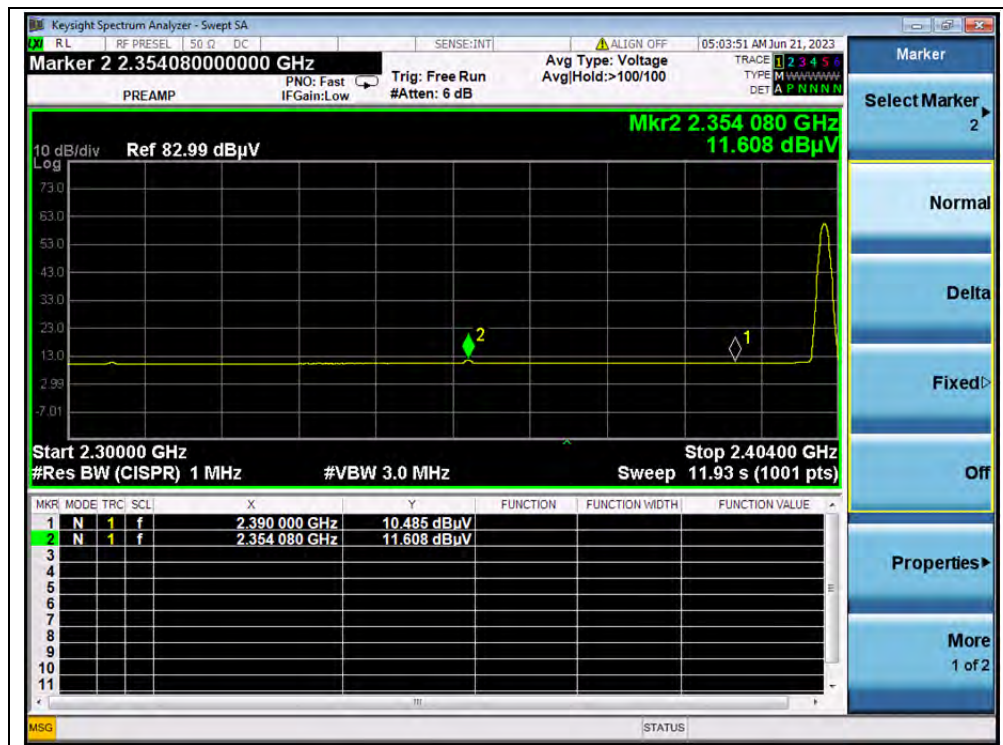


8-DPSK Mode

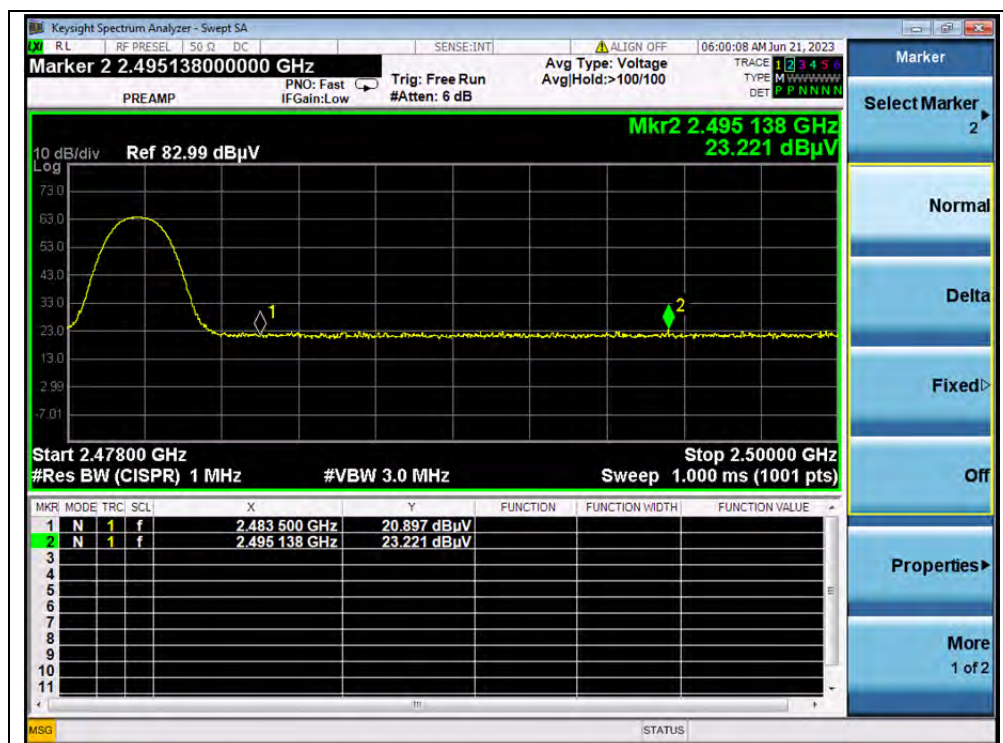
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2373.01	PK	23.61	6.74	27.20	57.55	74	PASS
0	2353.87	AV	11.44	6.74	27.20	45.38	54	PASS
78	2495.14	PK	23.22	6.74	27.20	57.16	74	PASS
78	2483.68	AV	10.21	6.74	27.20	44.15	54	PASS



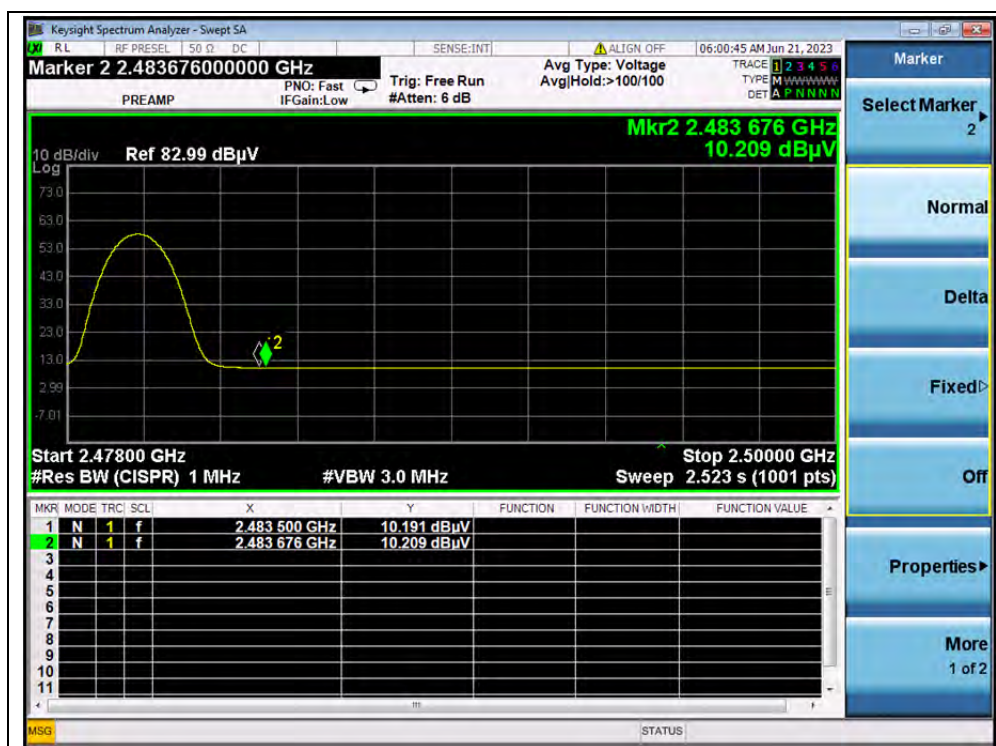
(PEAK, Channel 0, 8-DPSK)



(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.

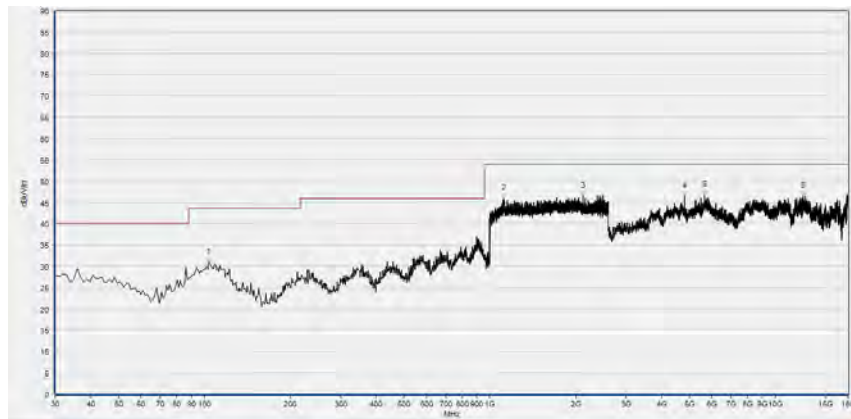
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

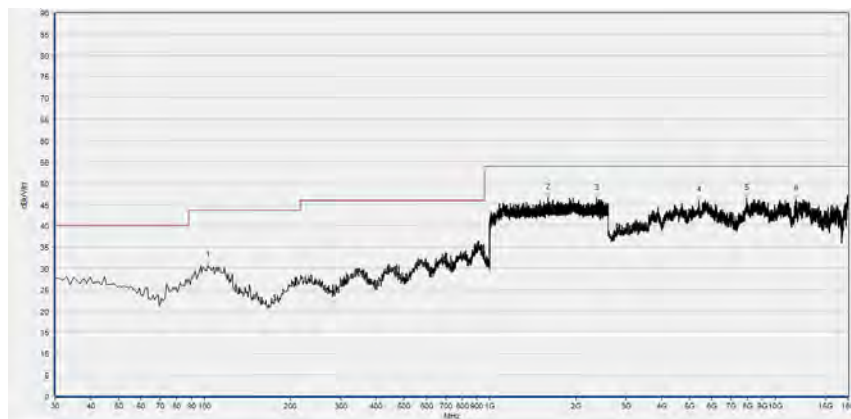
**Left, GFSK Mode**

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
103.720	30.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1121.067	45.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2121.600	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4805.280	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.200	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12514.520	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

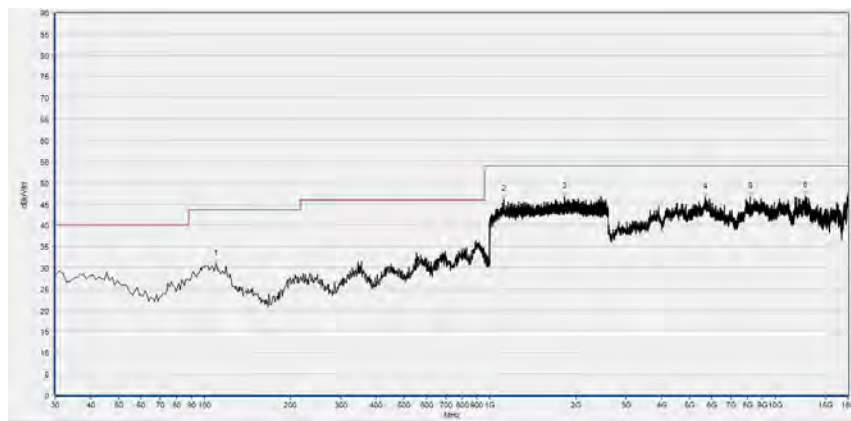
(Antenna Horizontal, 30MHz to 18GHz)



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	30.67	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1600.000	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2365.333	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5393.560	45.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7934.560	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11821.520	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

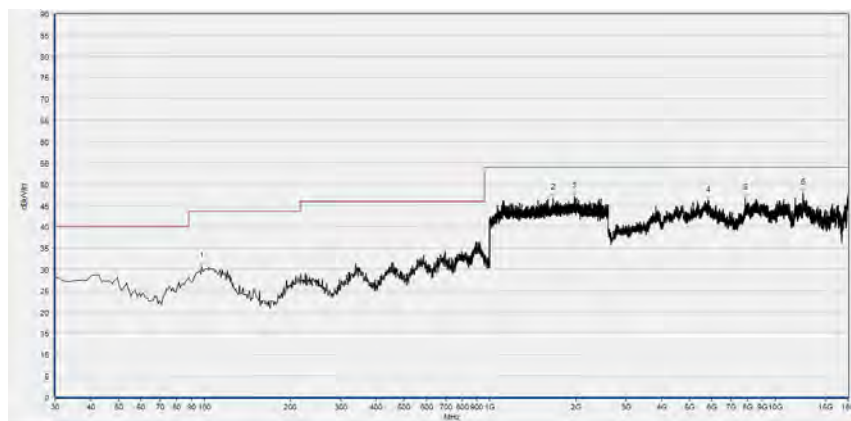
(Antenna Vertical, 30MHz to 18GHz)

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
109.540	30.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1120.533	46.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1828.800	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5695.400	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8187.120	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12739.360	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

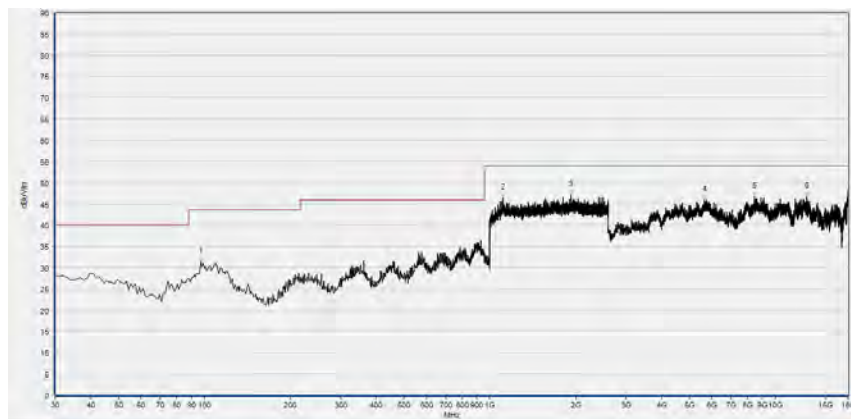
(Antenna Horizontal, 30MHz to 18GHz)



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
97.900	30.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1666.133	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1984.000	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	46.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7863.720	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12520.680	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

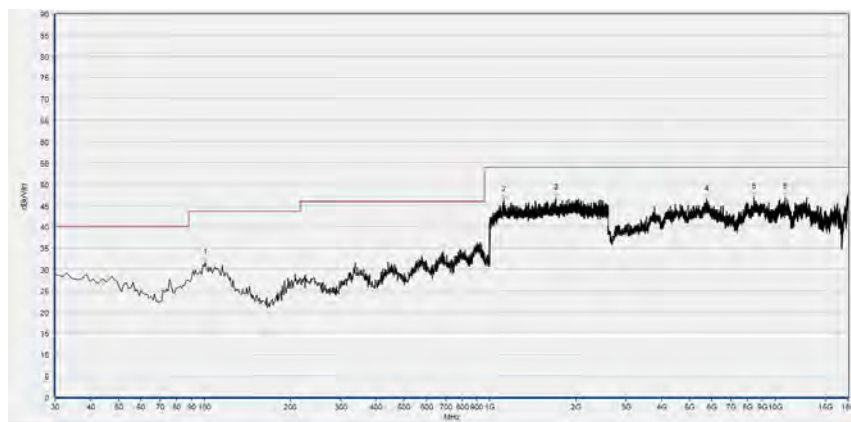
(Antenna Vertical, 30MHz to 18GHz)

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
96.930	31.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1112.533	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1925.333	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.200	45.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8476.640	46.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12893.360	46.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

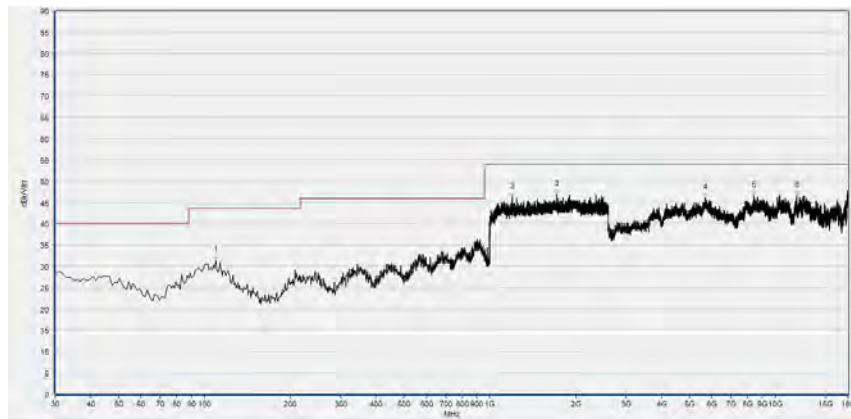


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1118.933	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1702.933	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	46.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8427.360	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10845.160	46.87	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
109.540	31.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1198.400	46.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1715.733	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5689.240	46.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8418.120	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11901.600	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

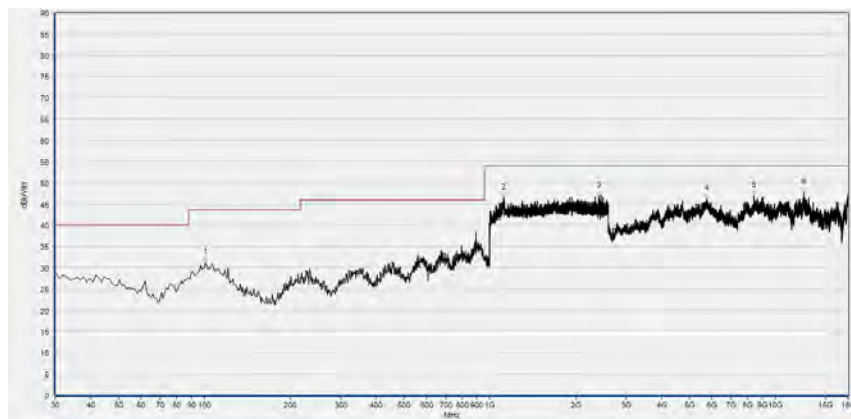


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	30.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1398.933	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1999.467	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5704.640	45.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8415.040	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12151.080	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

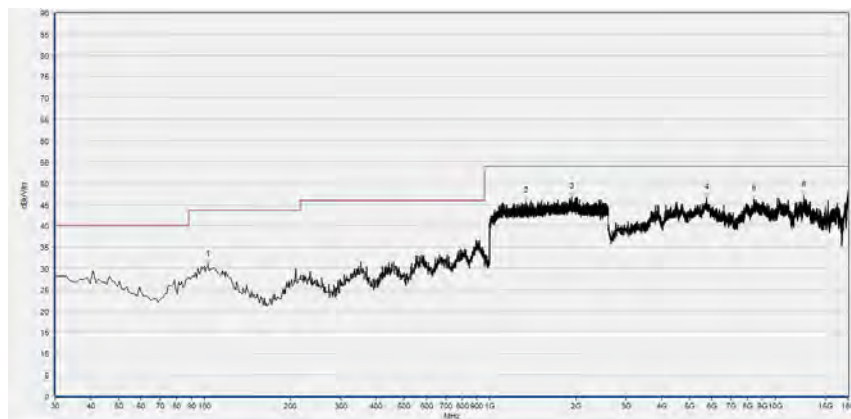


Plot for Channel 39



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
100.810	31.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1118.400	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2406.400	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5747.760	46.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8408.880	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12594.600	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

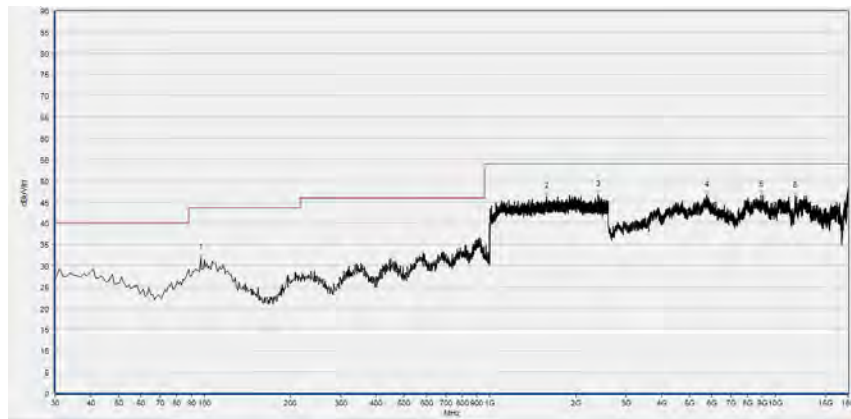


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1965.333	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3773.480	44.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4882.280	58.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7962.280	48.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12539.160	48.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

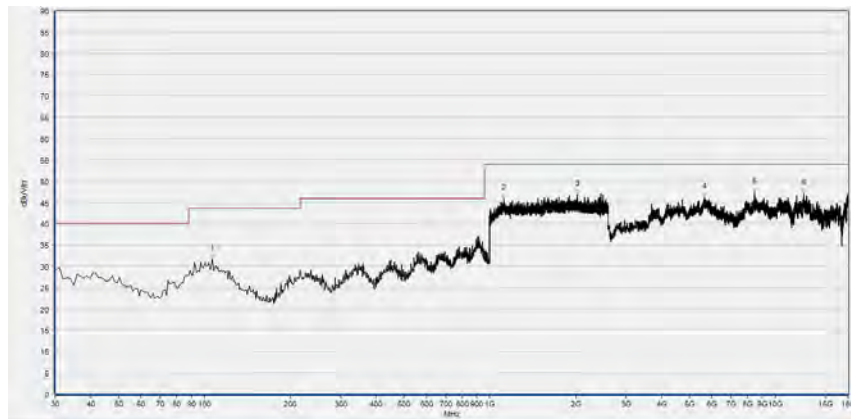


Plot for Channel 78



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
96.930	31.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1582.400	46.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2390.400	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5763.160	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8914.000	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11769.160	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

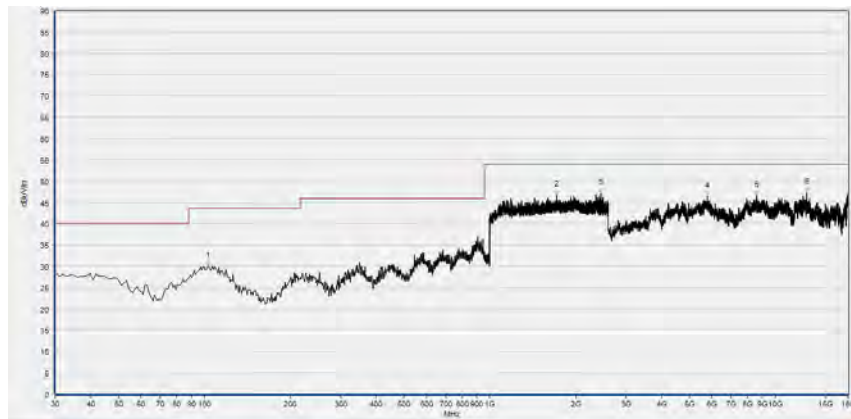


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1121.067	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2030.933	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5661.520	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8476.640	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12613.080	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

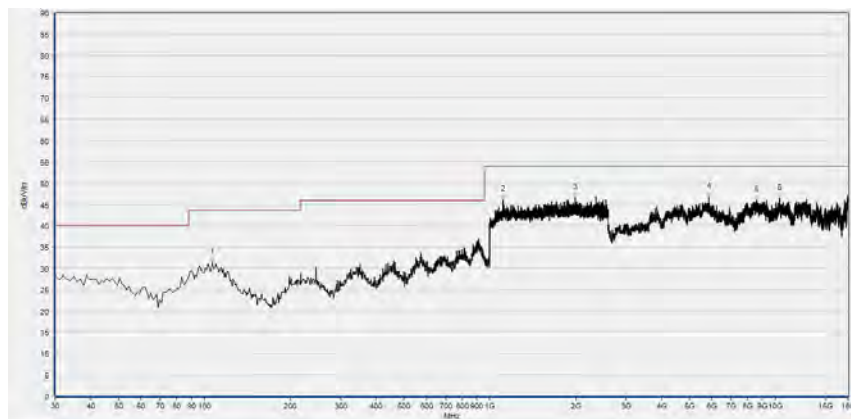
**8-DPSK Mode**

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
102.750	29.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1718.400	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2451.733	47.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5793.960	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8621.400	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12896.440	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

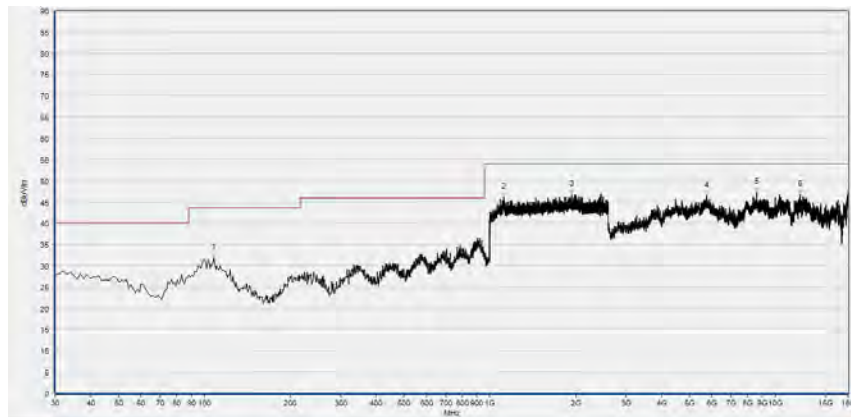


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1110.400	46.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1987.200	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5858.640	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8599.840	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10367.760	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

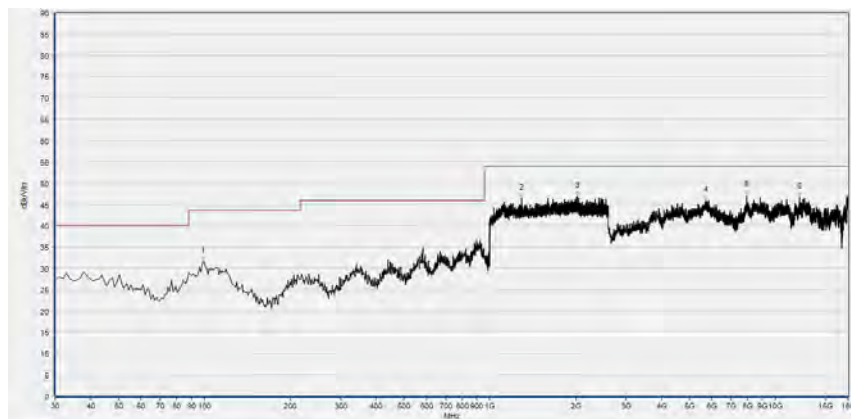


Plot for Channel 39



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
107.600	31.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1119.467	46.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1935.467	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5753.920	46.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8615.240	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12209.600	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

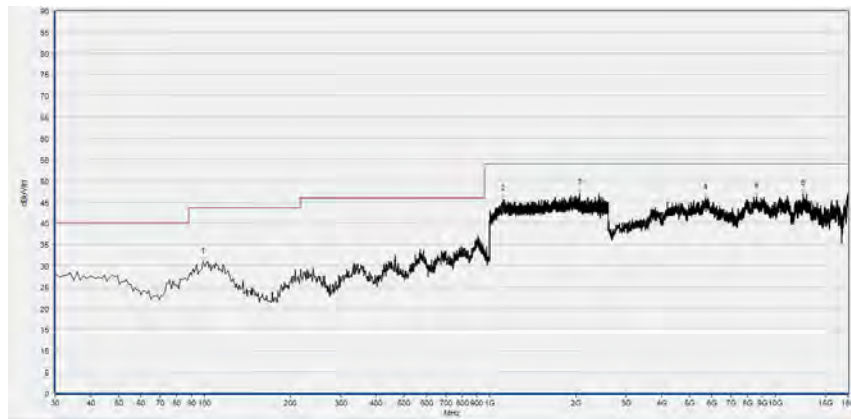
(Antenna Horizontal, 30MHz to 18GHz)



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	31.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1293.333	46.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2021.333	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5704.640	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7949.960	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12144.920	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

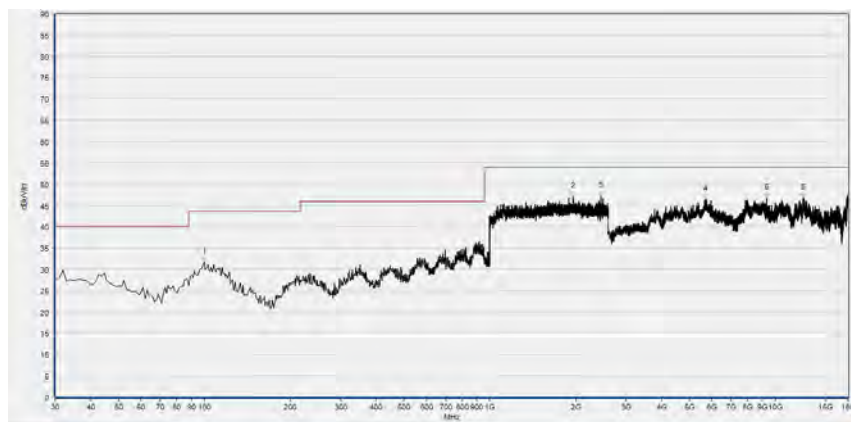
(Antenna Vertical, 30MHz to 18GHz)

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
98.870	30.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1112.000	45.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2058.667	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5670.760	45.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8615.240	46.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12523.760	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

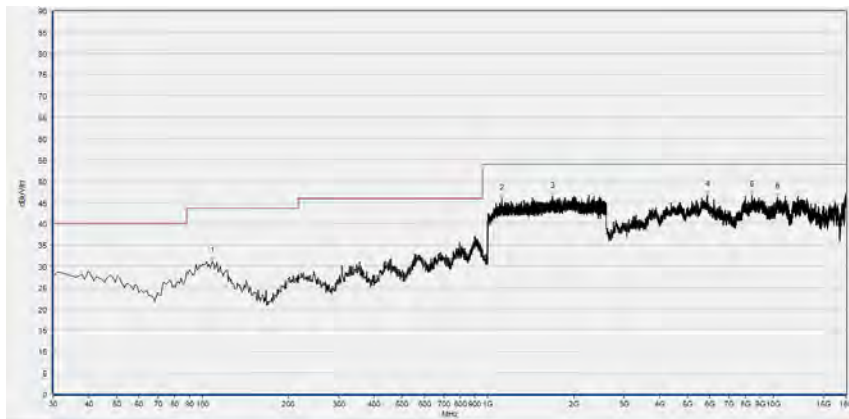


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.71	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1961.600	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2453.867	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5680.000	46.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9342.120	46.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12523.760	46.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

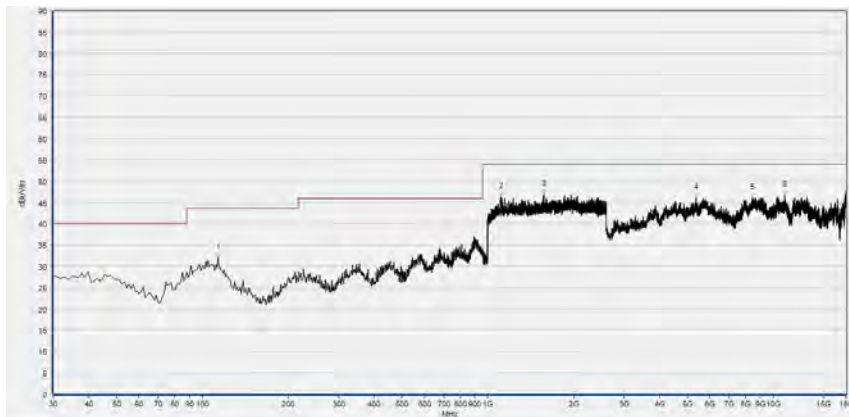
**Right, GFSK Mode**

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
108.570	31.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1117.333	45.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1688.000	46.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5877.120	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10361.600	46.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

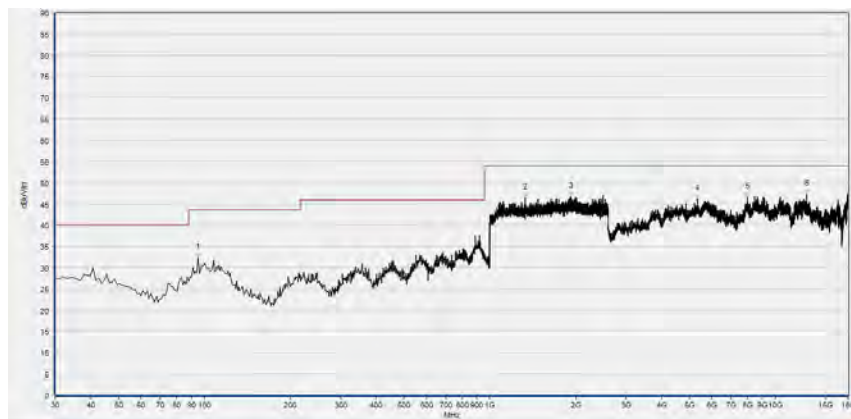


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	31.99	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1112.533	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1574.400	47.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5375.080	46.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8473.560	46.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10989.920	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

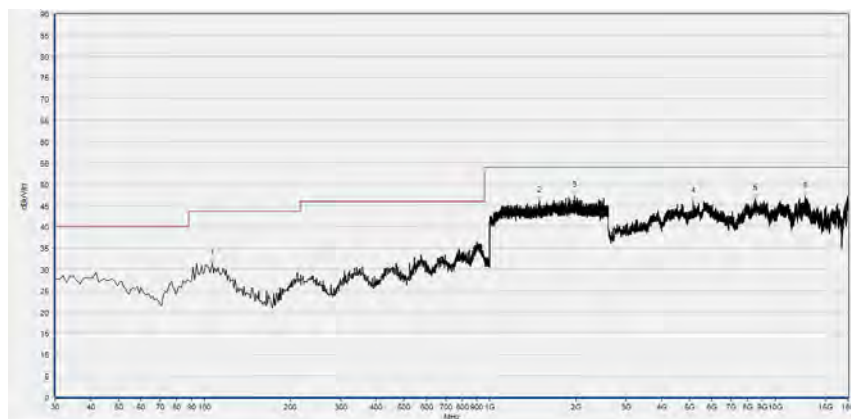


Plot for Channel 39



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
94.990	32.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1332.800	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1926.400	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5347.360	46.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7971.520	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12893.360	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

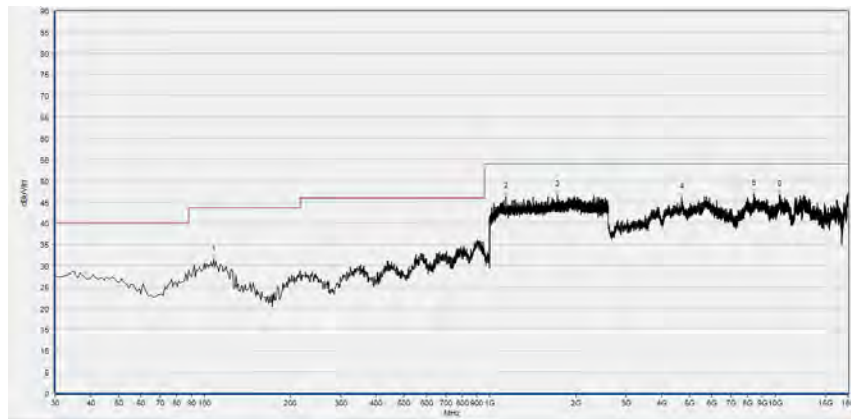


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1489.067	46.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1982.400	47.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5150.240	45.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8485.880	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12723.960	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Vertical, 30MHz to 18GHz)

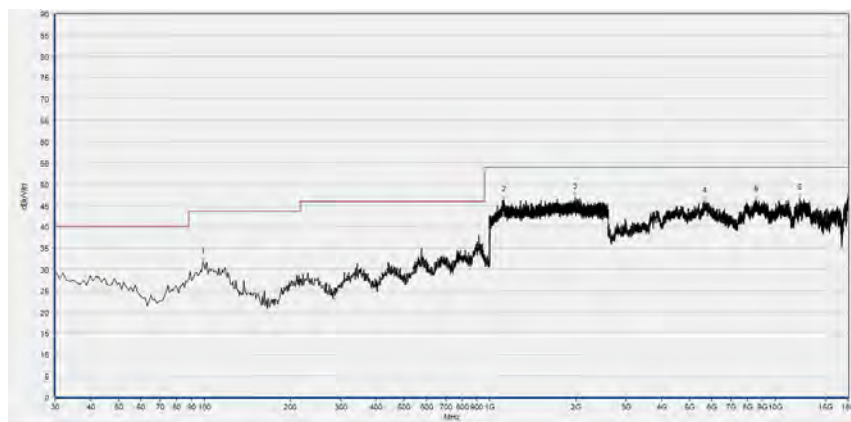


Plot for Channel 78



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
107.600	31.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1140.800	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1726.933	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4709.800	46.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10361.600	46.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

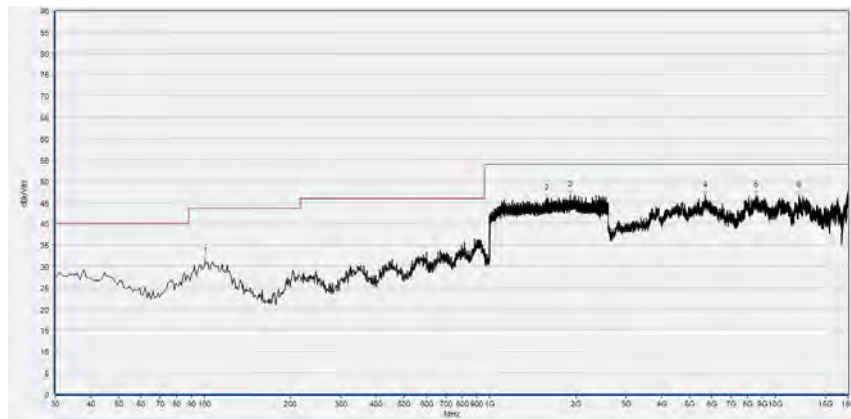


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.71	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1120.533	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1988.800	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.360	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8575.200	46.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12141.840	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

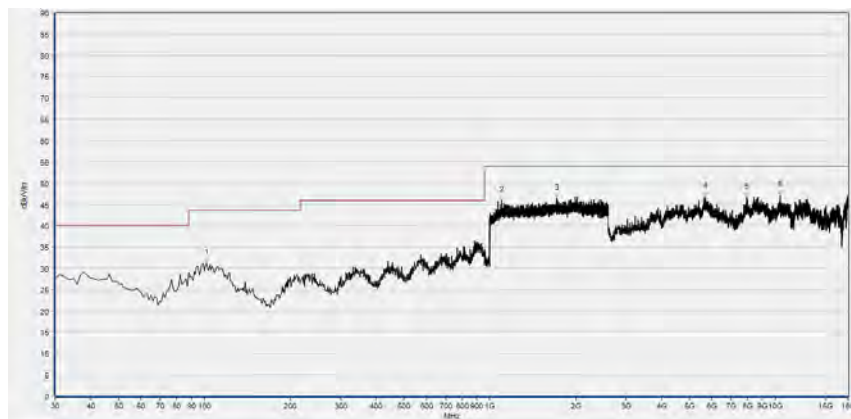
 **$\pi/4$ -DQPSK Mode**

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	31.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1577.067	45.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1910.400	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5689.240	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8559.800	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12111.040	46.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

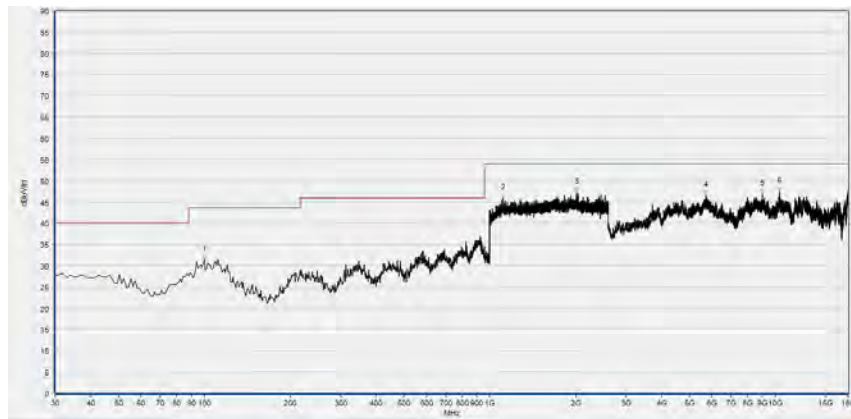
(Antenna Horizontal, 30MHz to 18GHz)



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	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1100.267	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1713.600	46.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5698.480	46.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7940.720	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10413.960	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

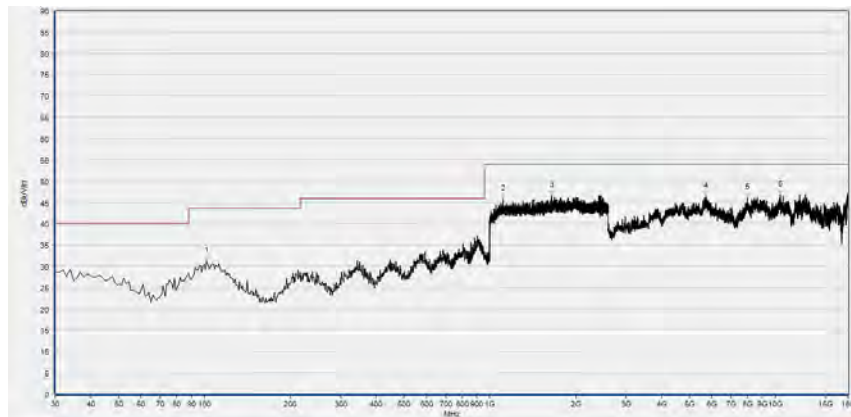
(Antenna Vertical, 30MHz to 18GHz)

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	31.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1110.933	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2013.867	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5707.720	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9009.480	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10355.440	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

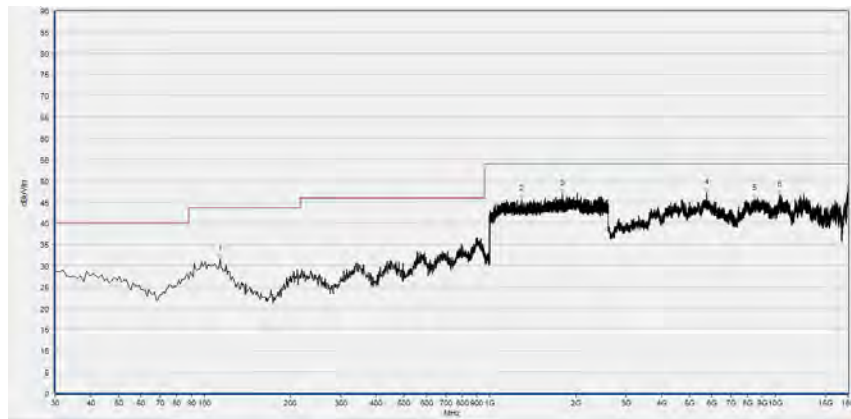


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1113.600	45.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1650.667	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5726.200	46.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7999.240	46.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10435.520	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

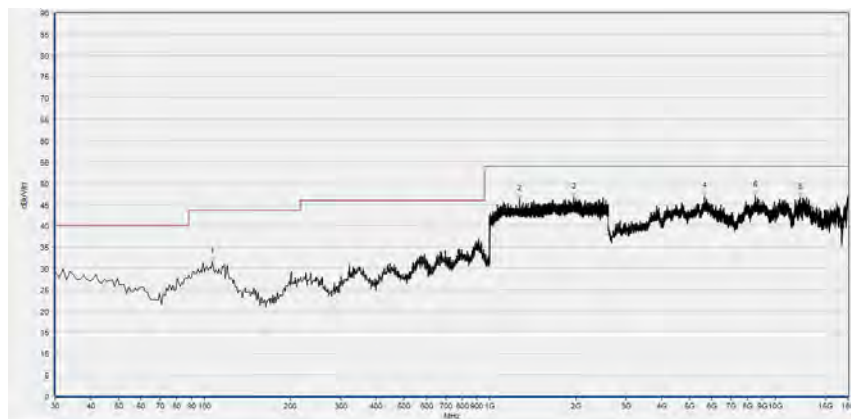


Plot for Channel 78



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
113.420	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1294.933	45.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1798.400	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5747.760	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8445.840	45.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10343.120	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

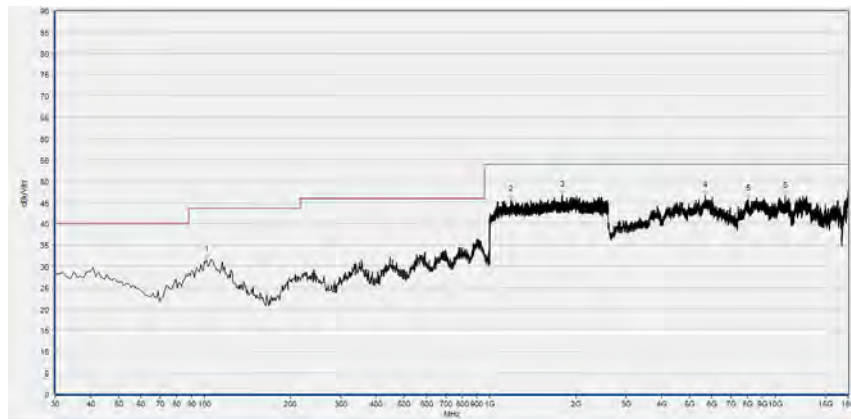


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1273.600	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1969.600	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5658.440	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8519.760	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12206.520	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

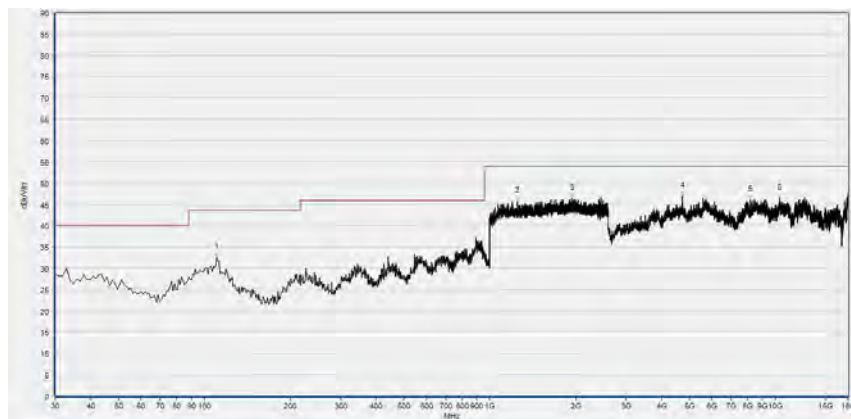
**8-DPSK Mode**

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
101.780	31.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1186.667	45.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1795.200	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5692.320	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8014.640	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10820.520	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

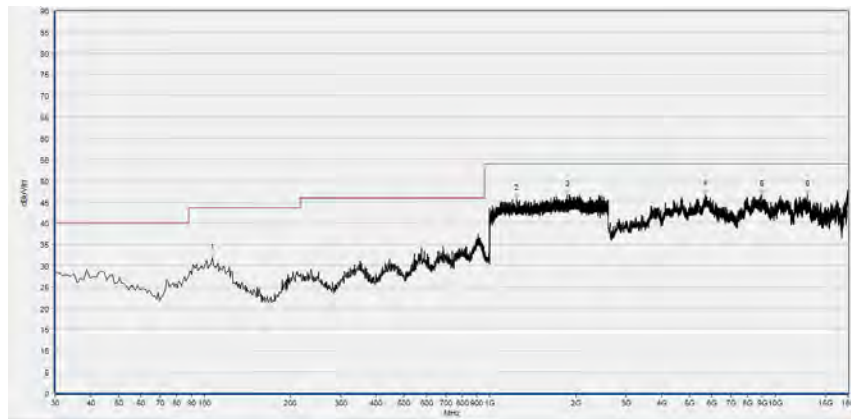
(Antenna Horizontal, 30MHz to 18GHz)



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
110.510	32.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1245.867	45.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1930.133	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8190.200	46.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10358.520	46.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

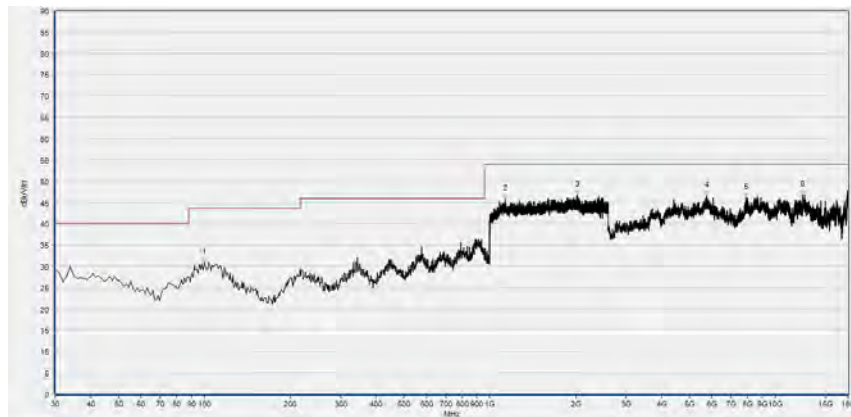
(Antenna Vertical, 30MHz to 18GHz)

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	31.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1243.200	45.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1869.333	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5686.160	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8941.720	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12924.160	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

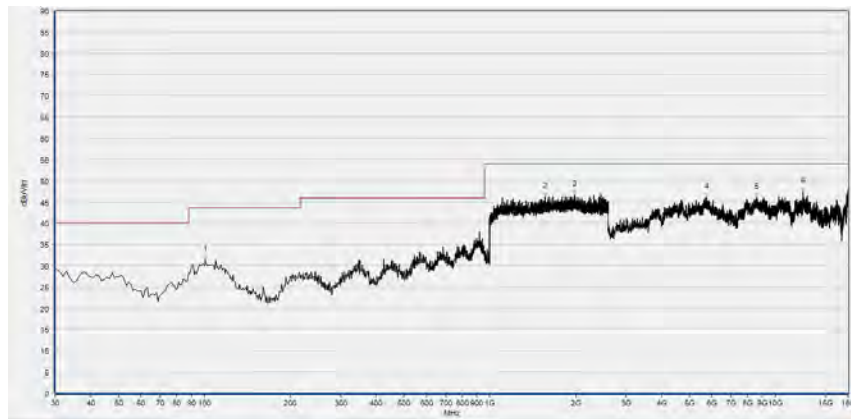
(Antenna Horizontal, 30MHz to 18GHz)



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
99.840	30.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1132.267	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2032.000	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7885.280	46.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12480.640	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

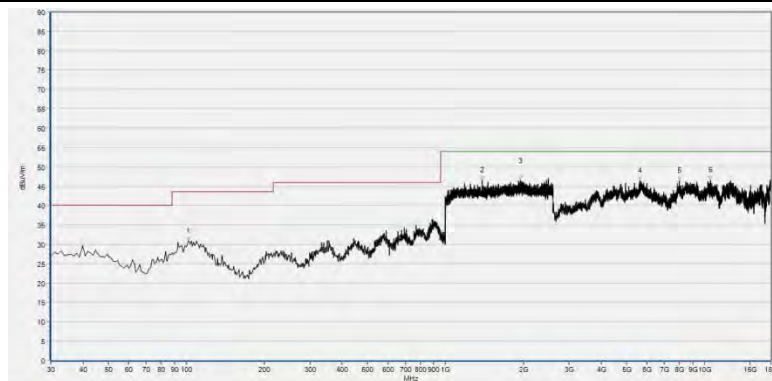
(Antenna Vertical, 30MHz to 18GHz)

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	31.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1565.333	46.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1974.400	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5753.920	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8599.840	46.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12511.440	47.49	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	30.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1383.467	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1949.867	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5612.240	46.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8002.320	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10527.920	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT