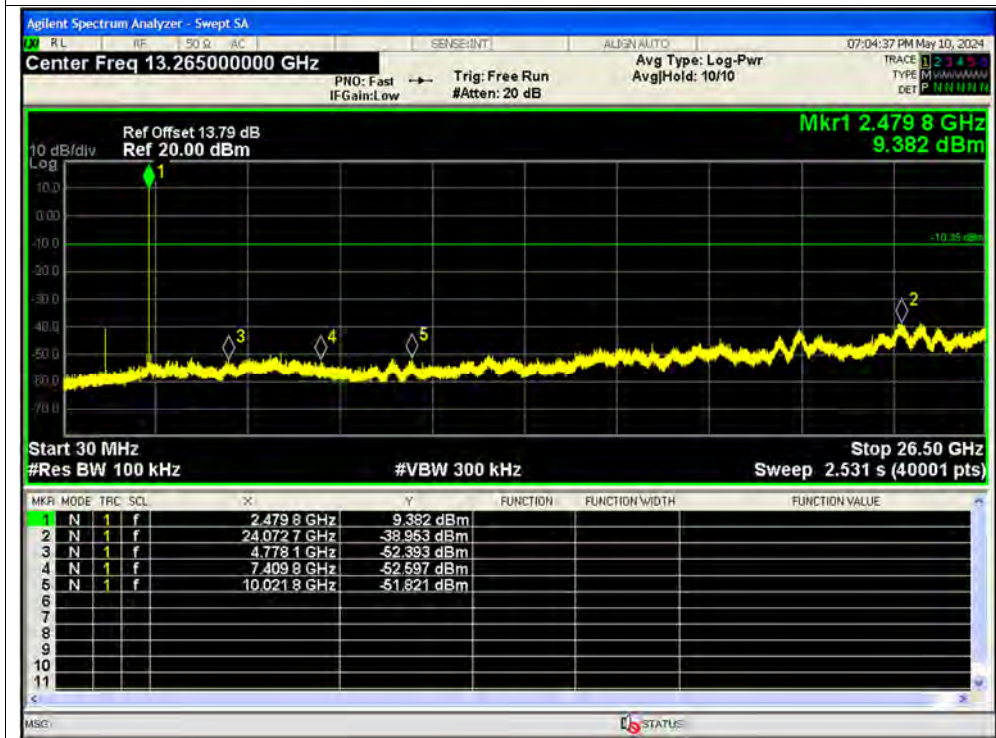


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

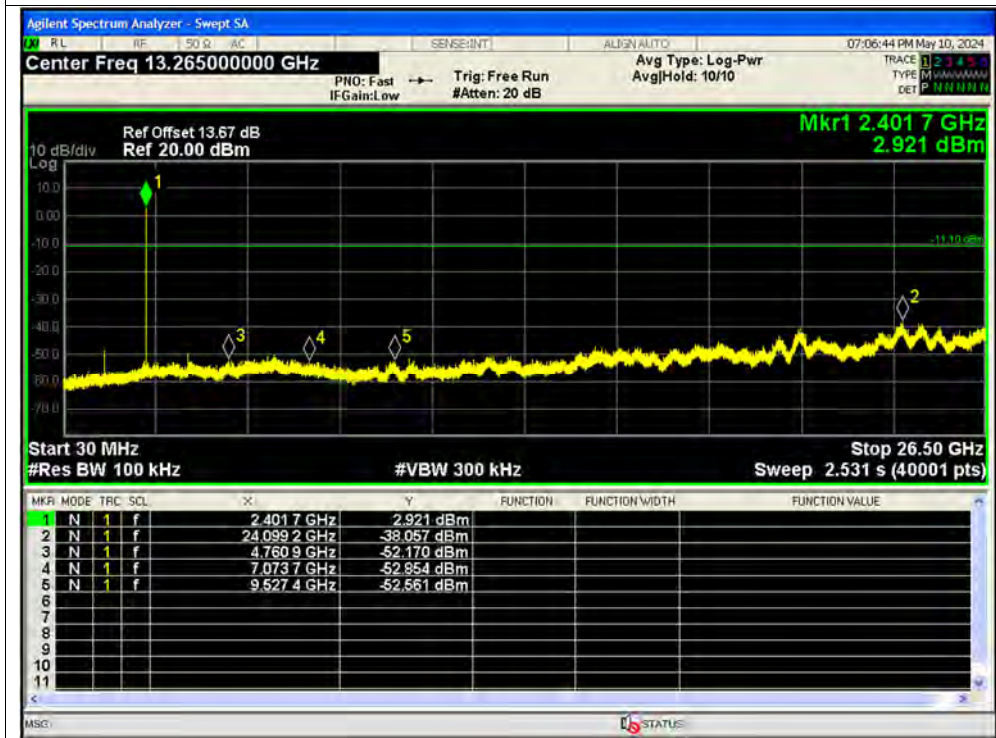




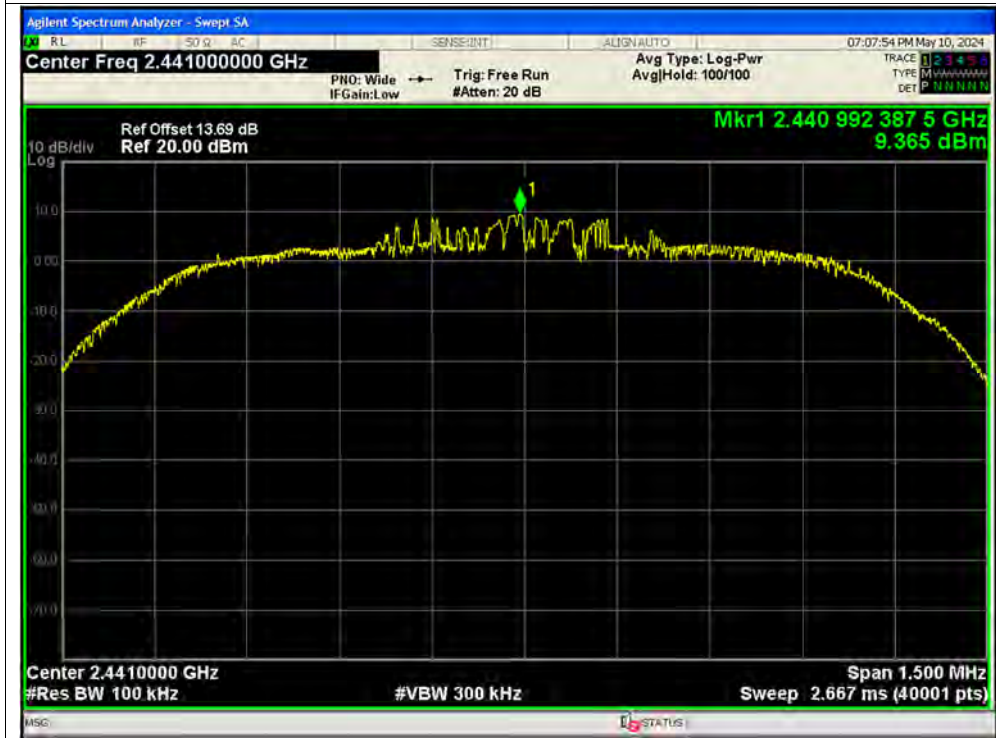
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



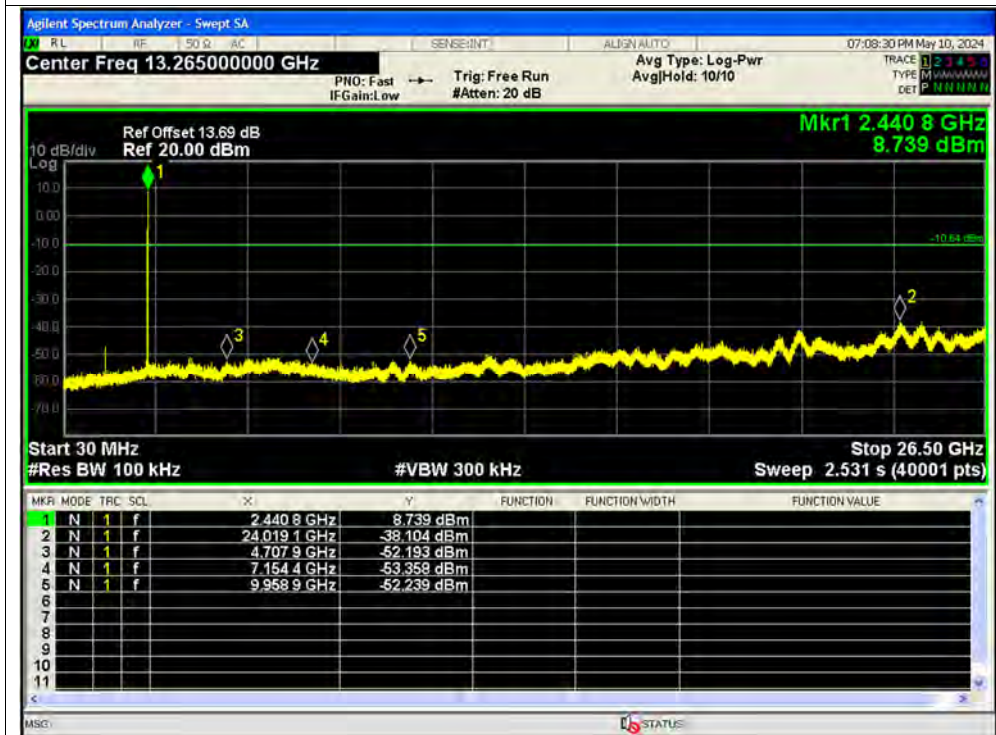
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



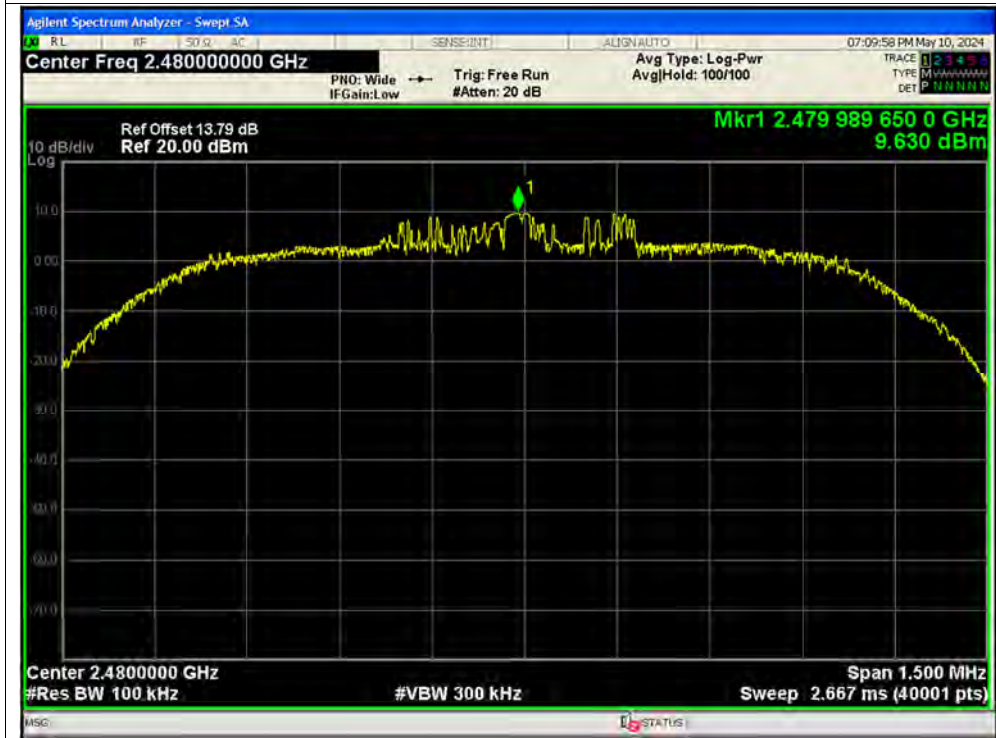
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



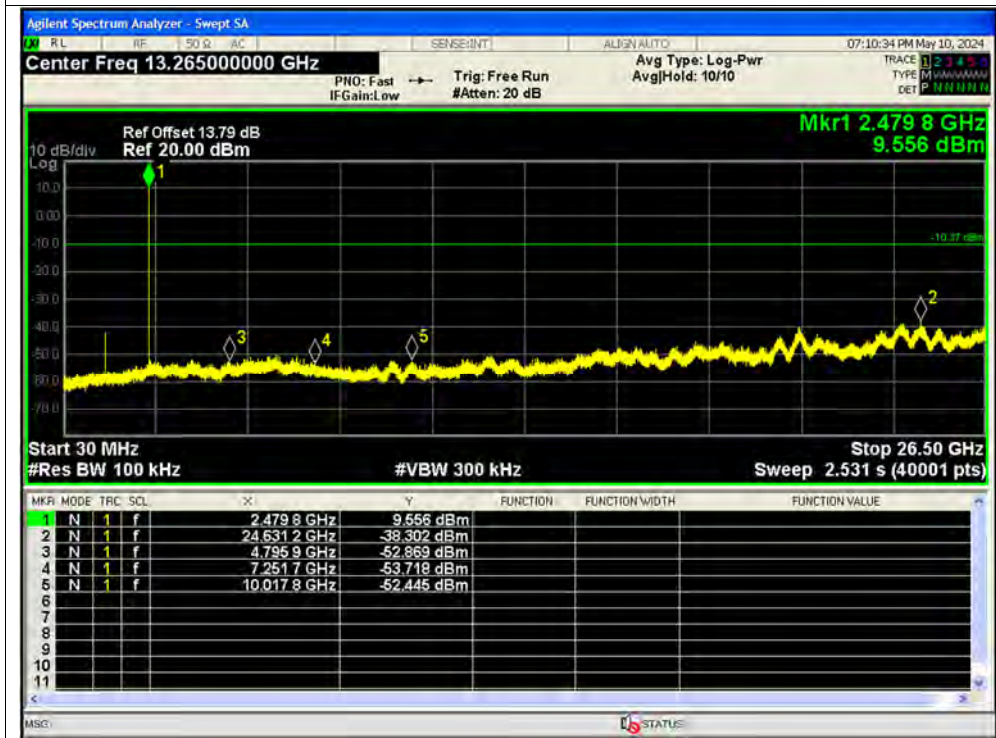
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

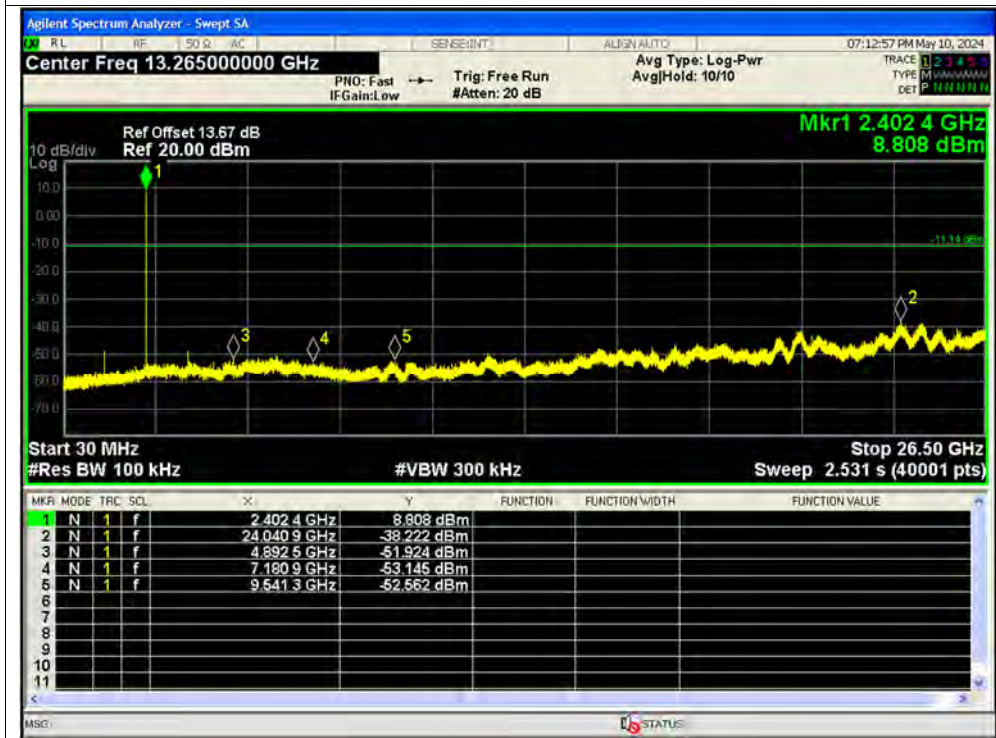




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

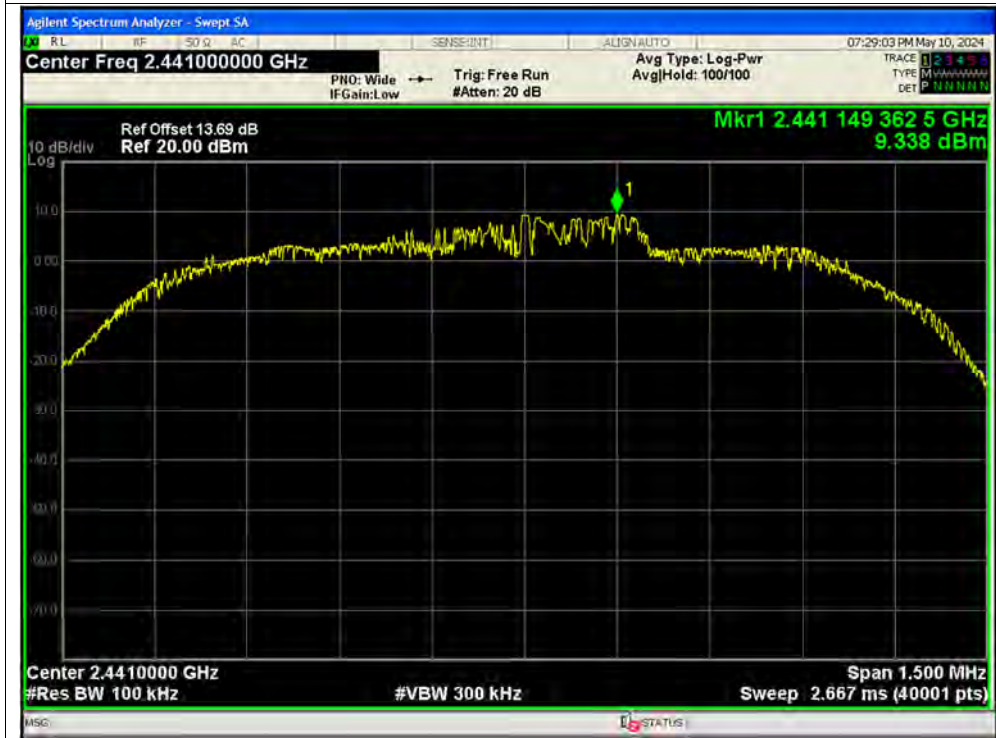


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

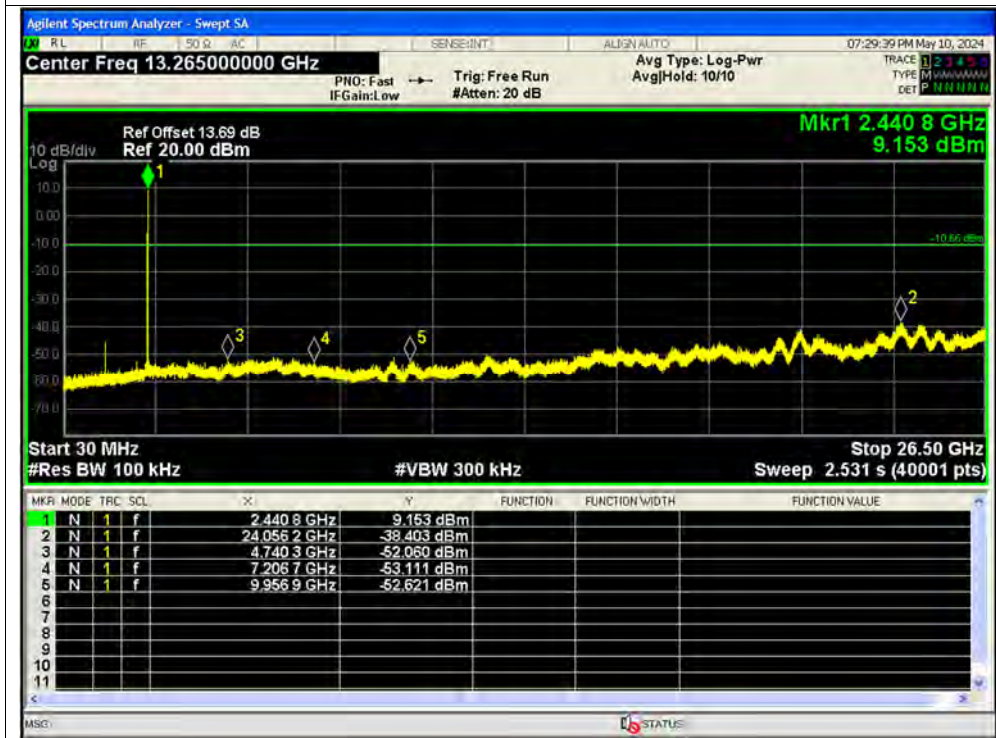




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

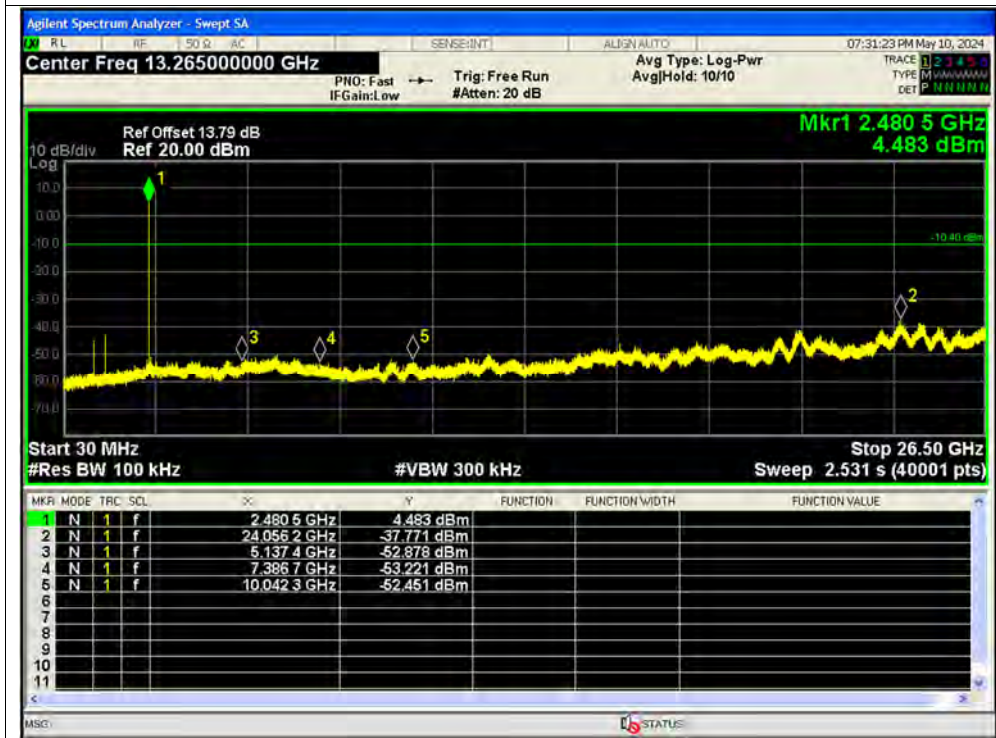




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

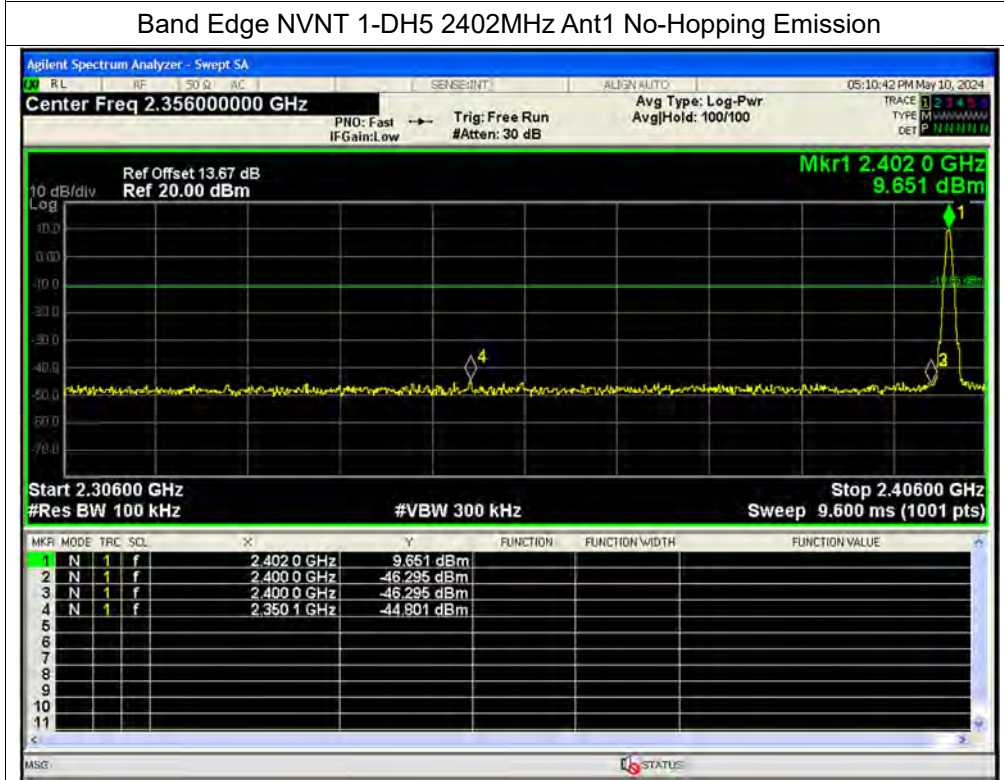
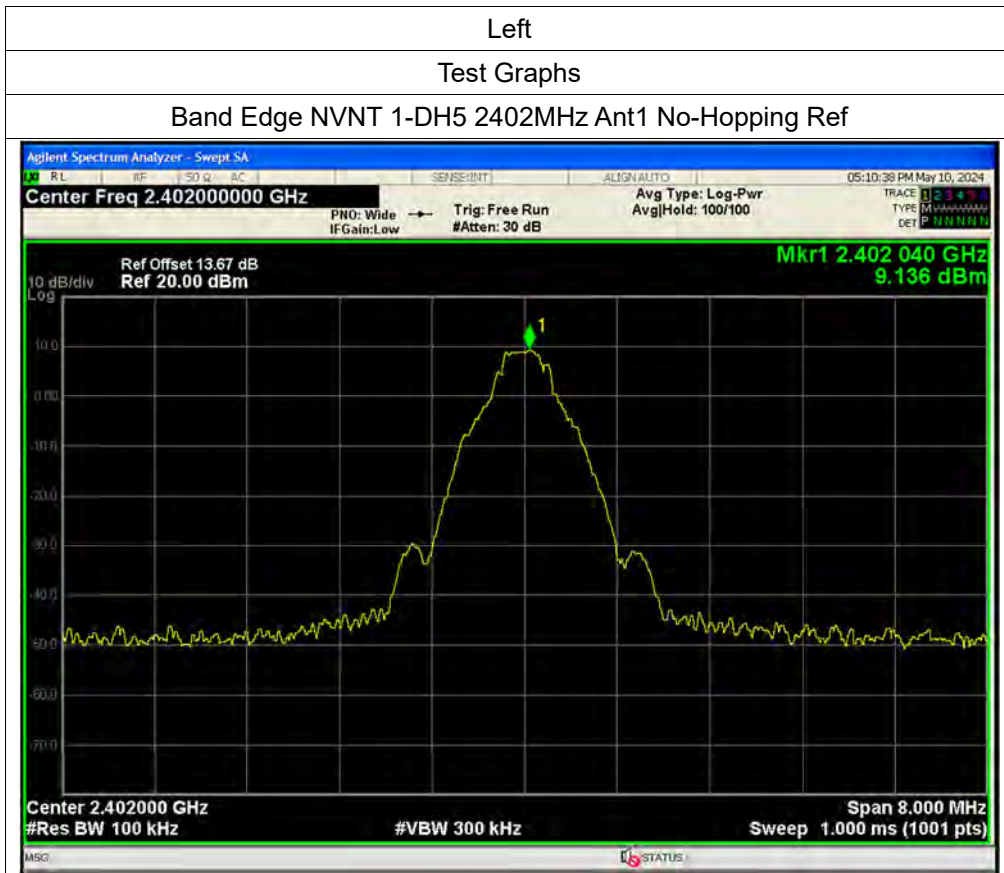


**A.9. Band Edge****Left**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.94	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.37	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.41	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.34	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.1	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-53.01	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.78	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.7	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.46	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.36	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.4	-20	Pass

Right

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.47	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.22	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.1	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.53	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-53.09	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.23	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.51	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.35	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.05	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.71	-20	Pass

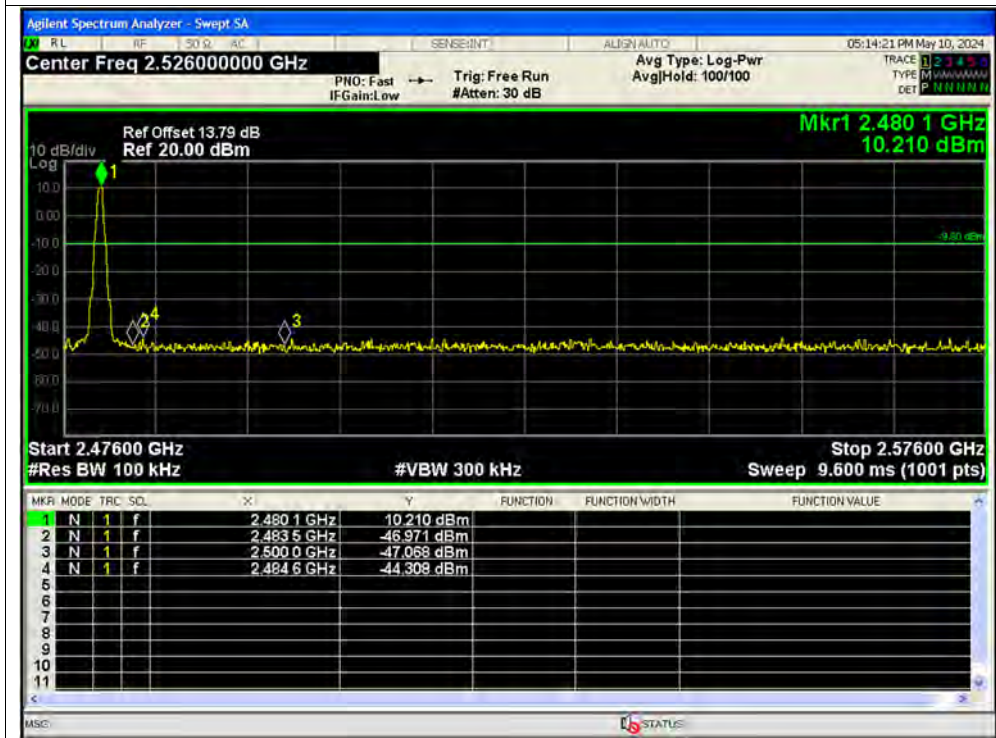




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

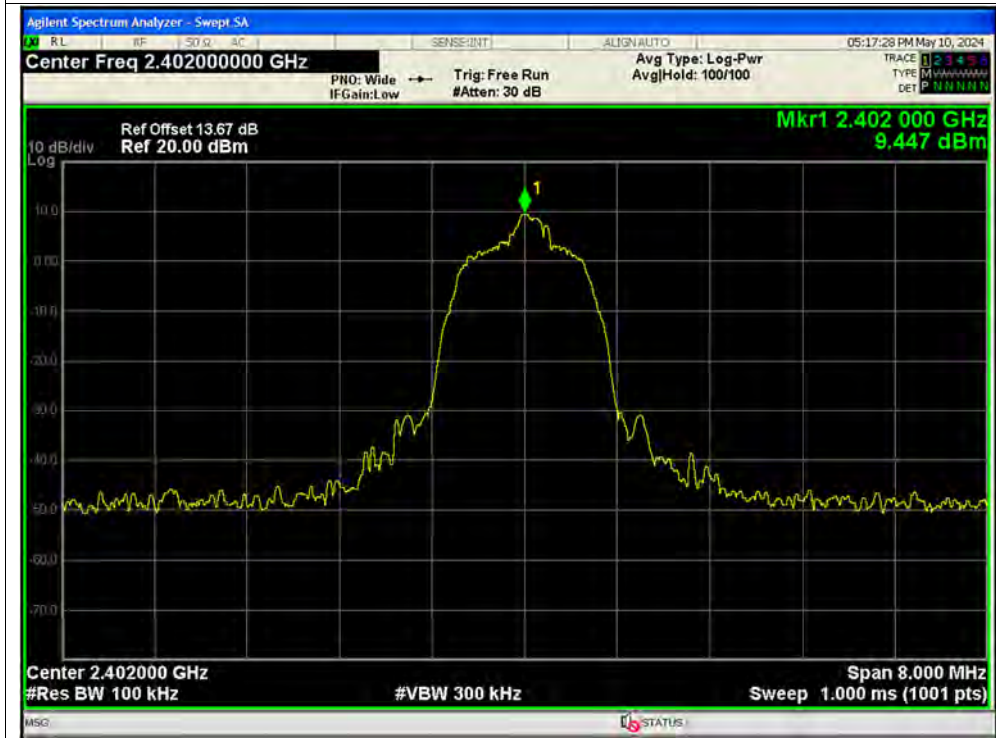


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

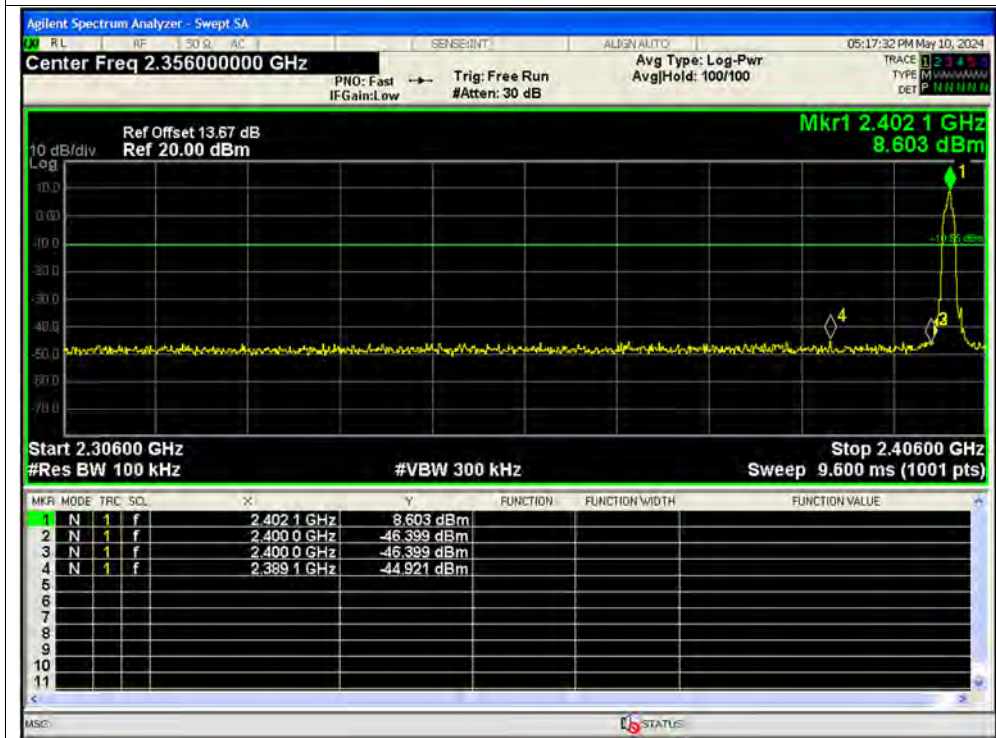




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



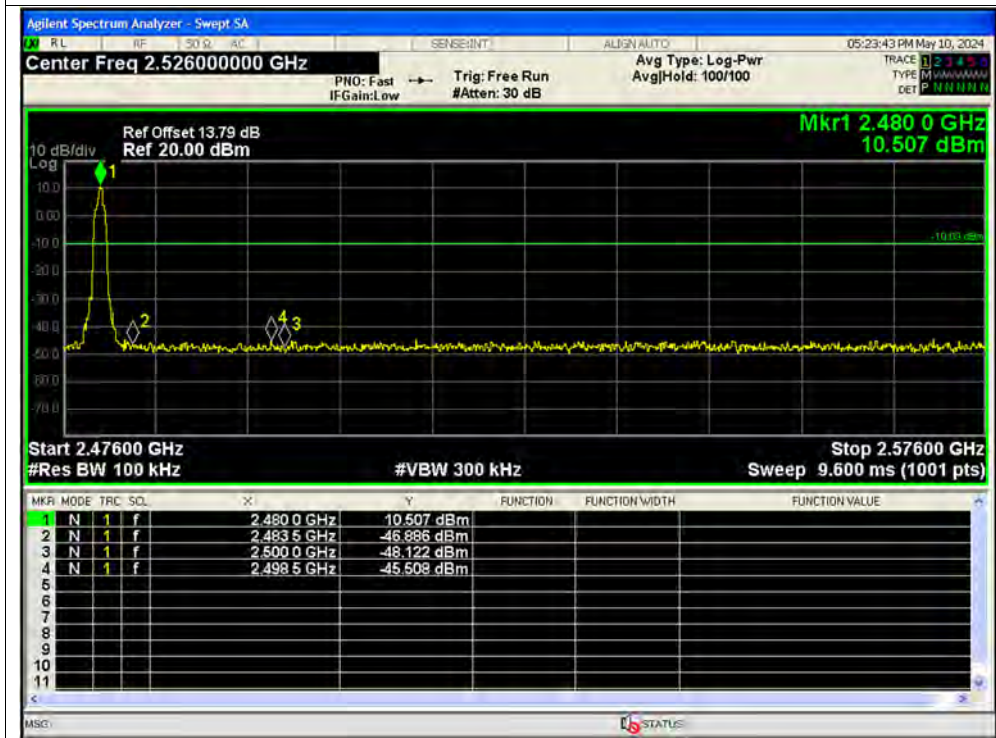
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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



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

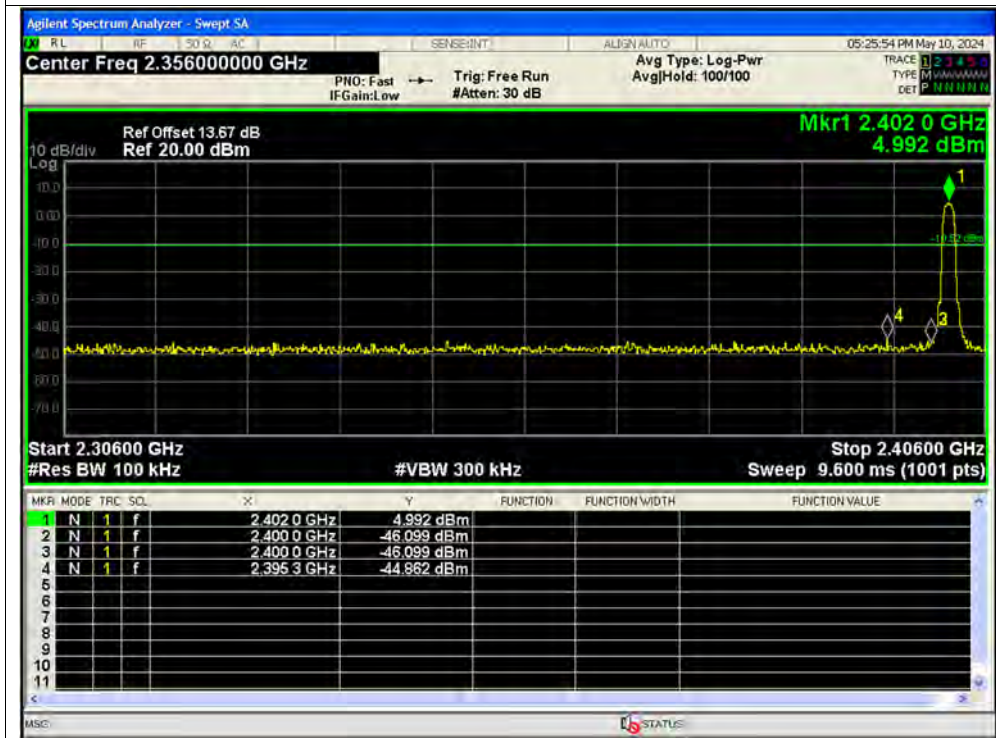




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

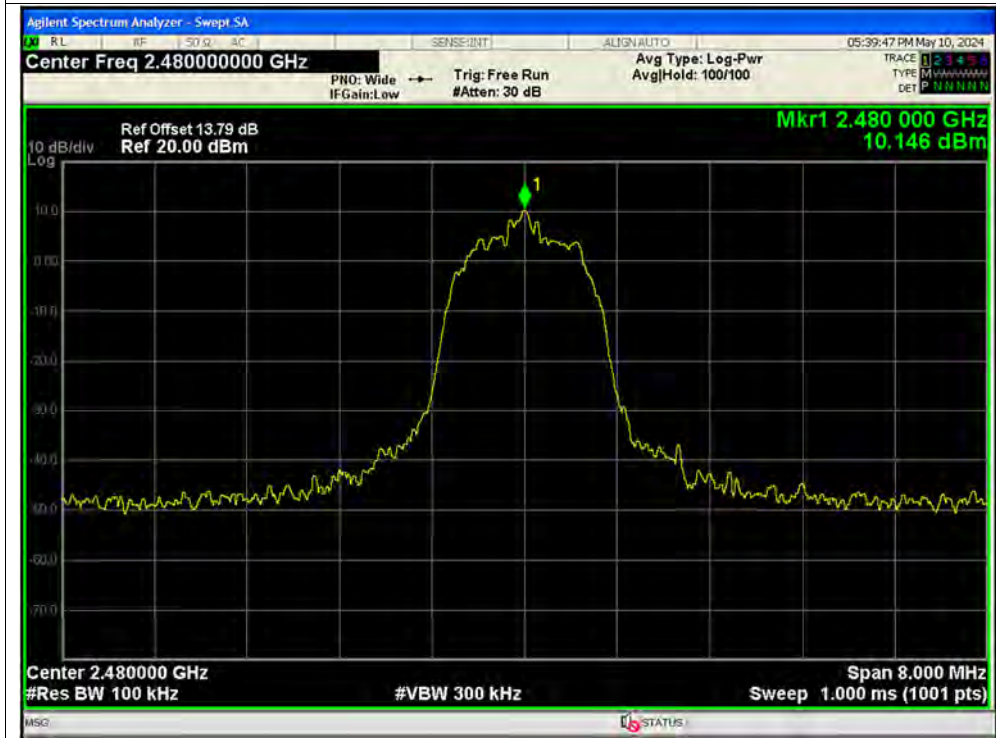


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

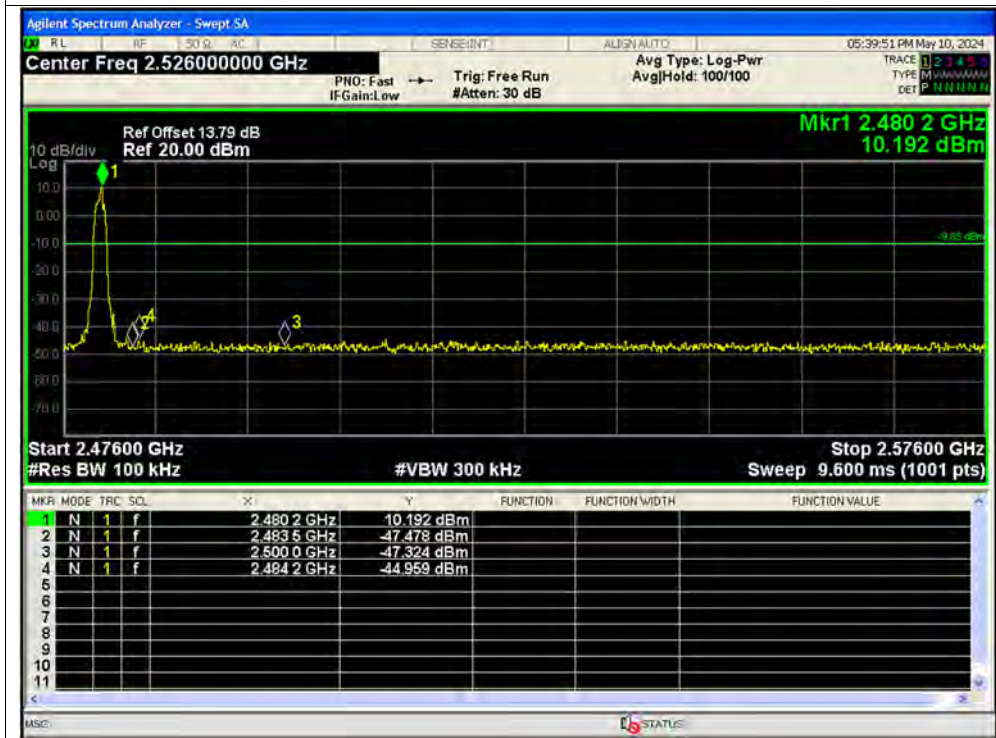


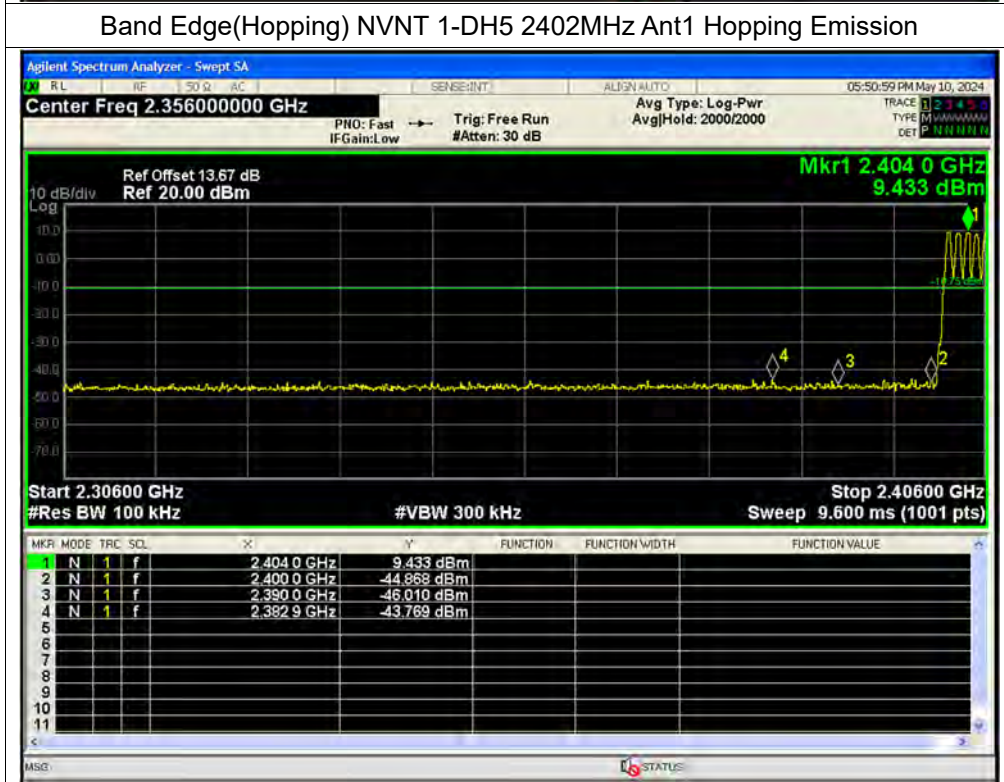


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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

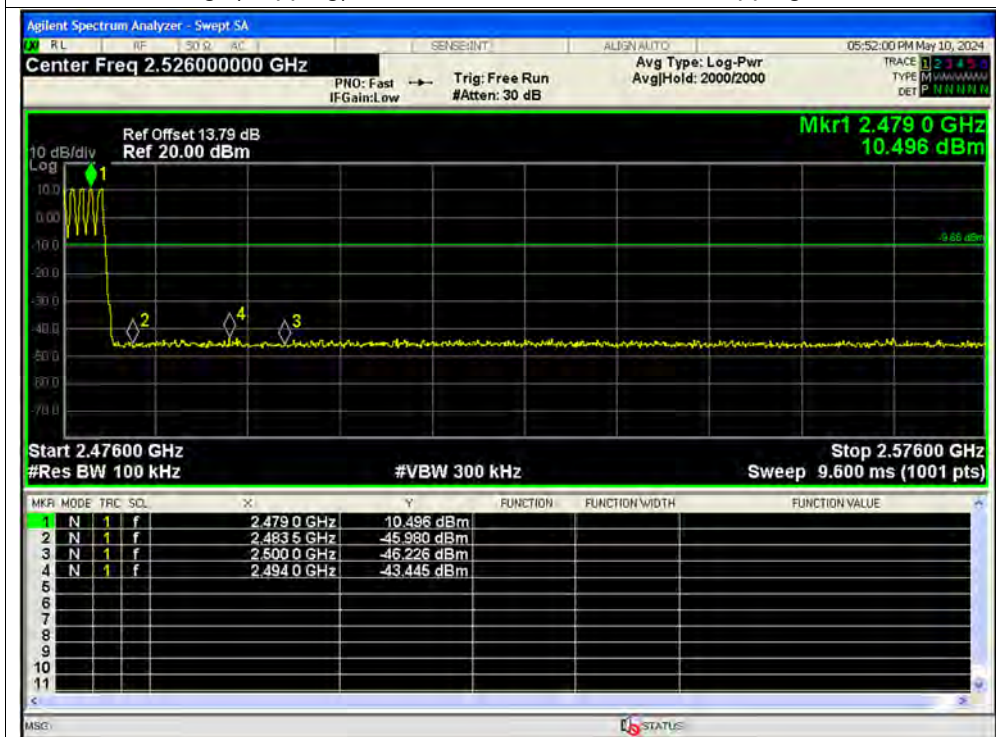




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

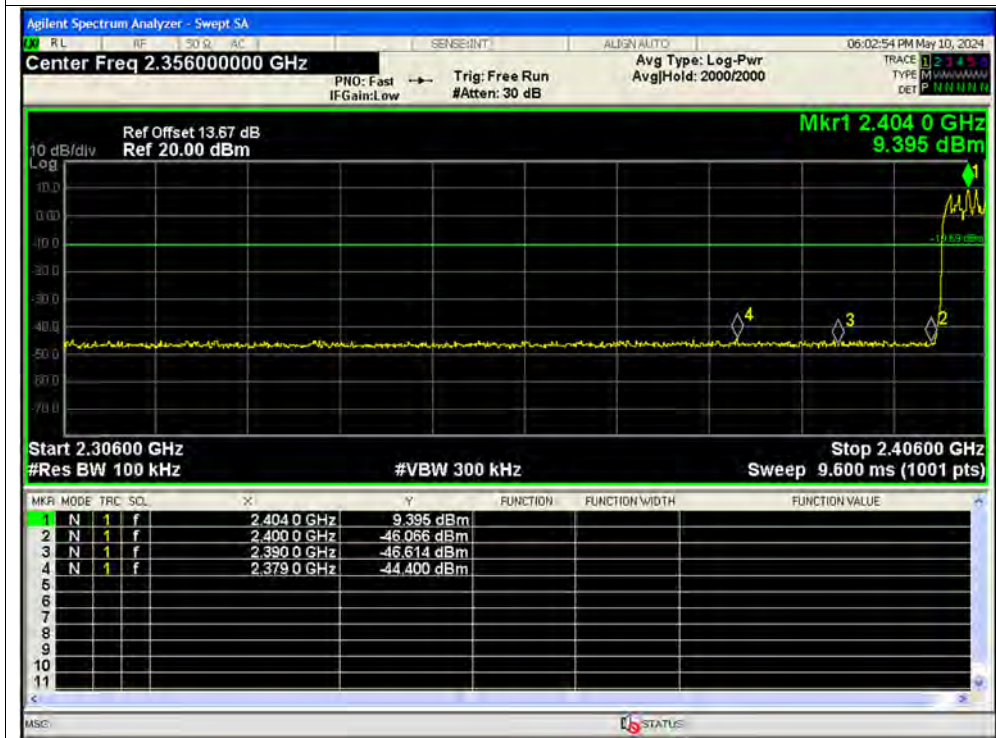




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



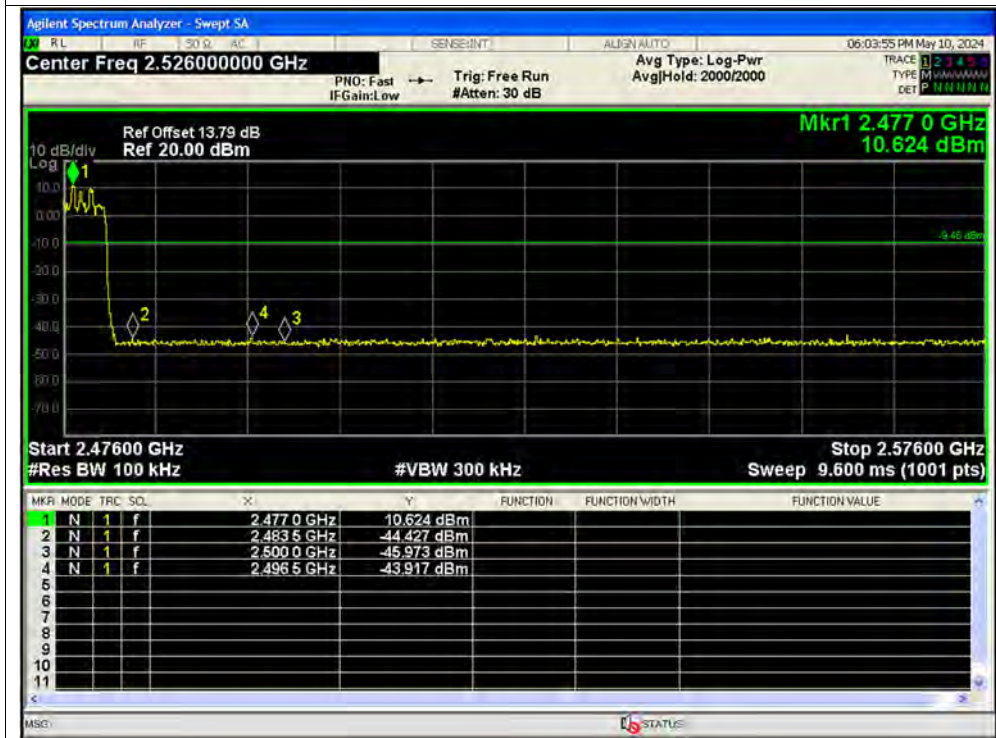
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



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

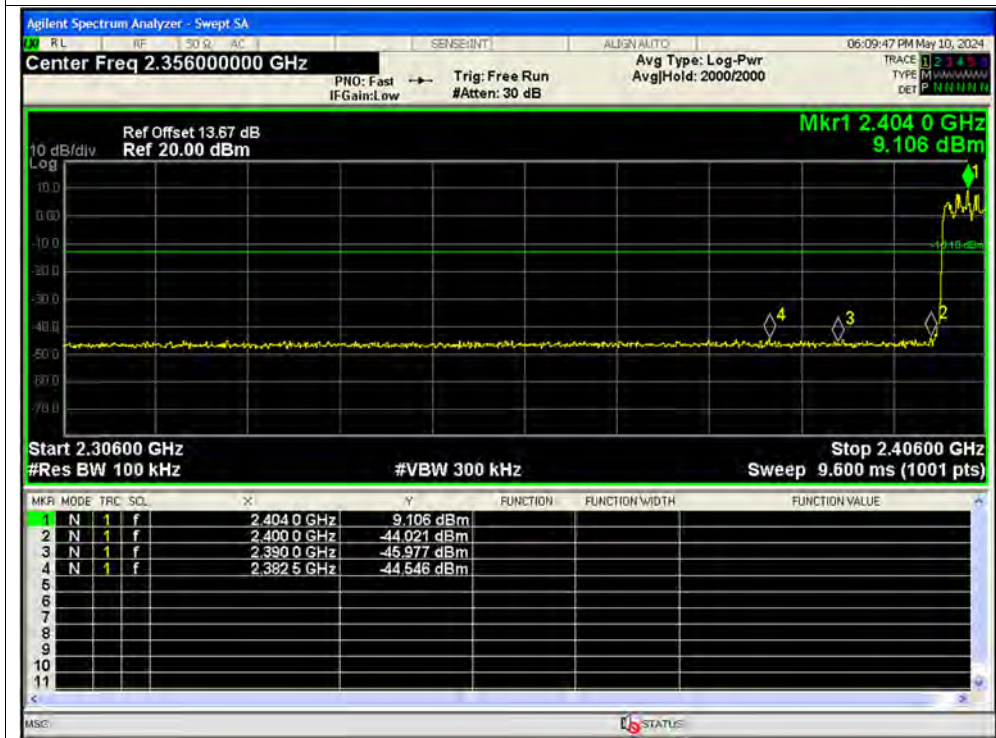




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



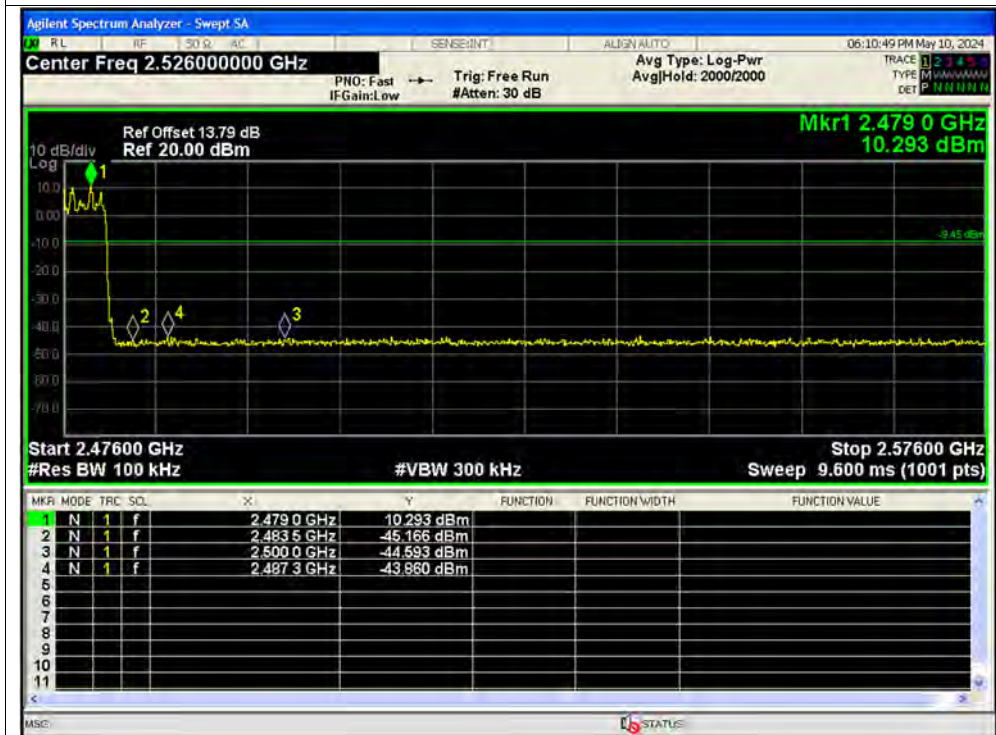
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

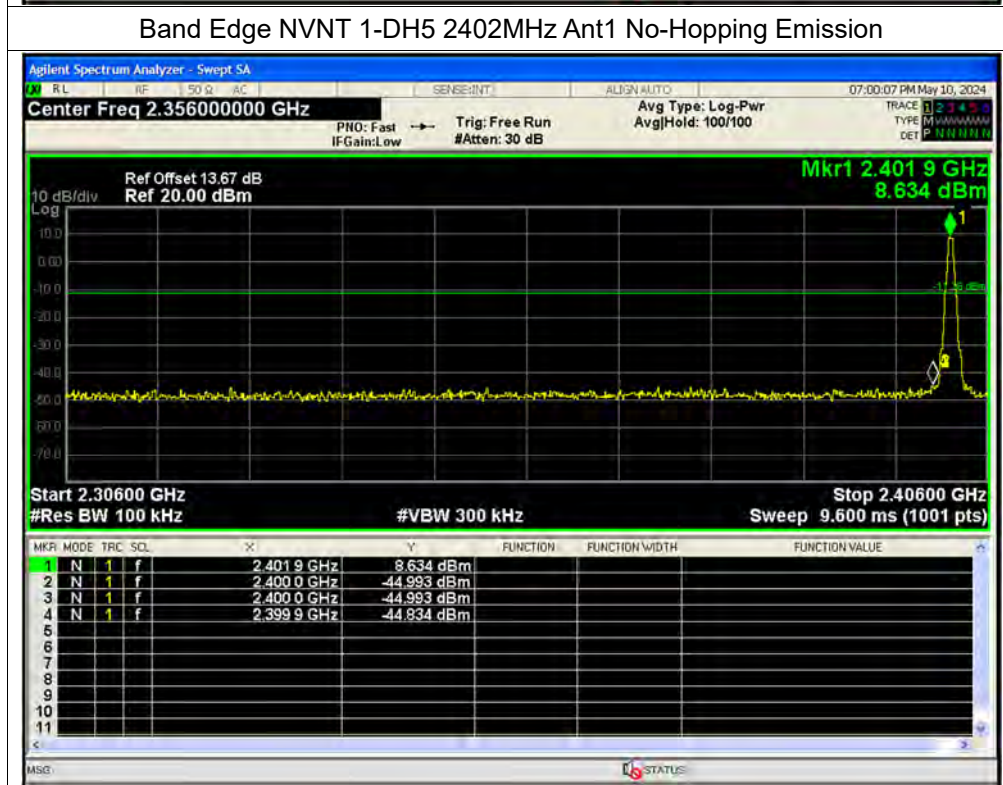
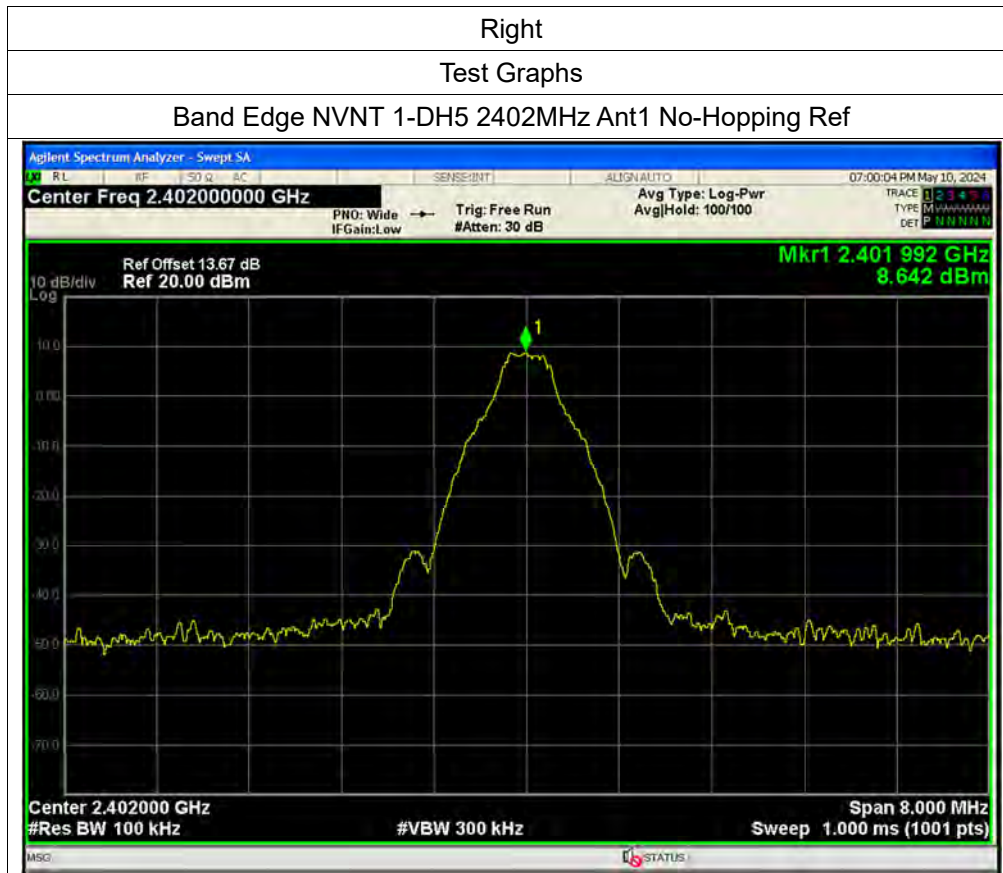


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



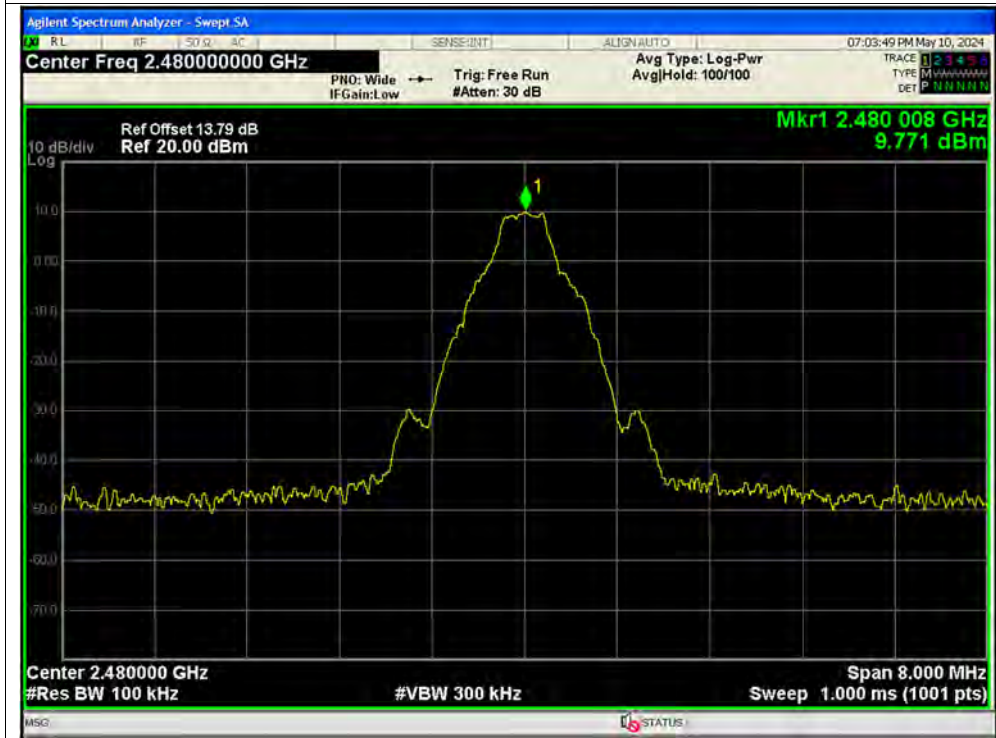
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



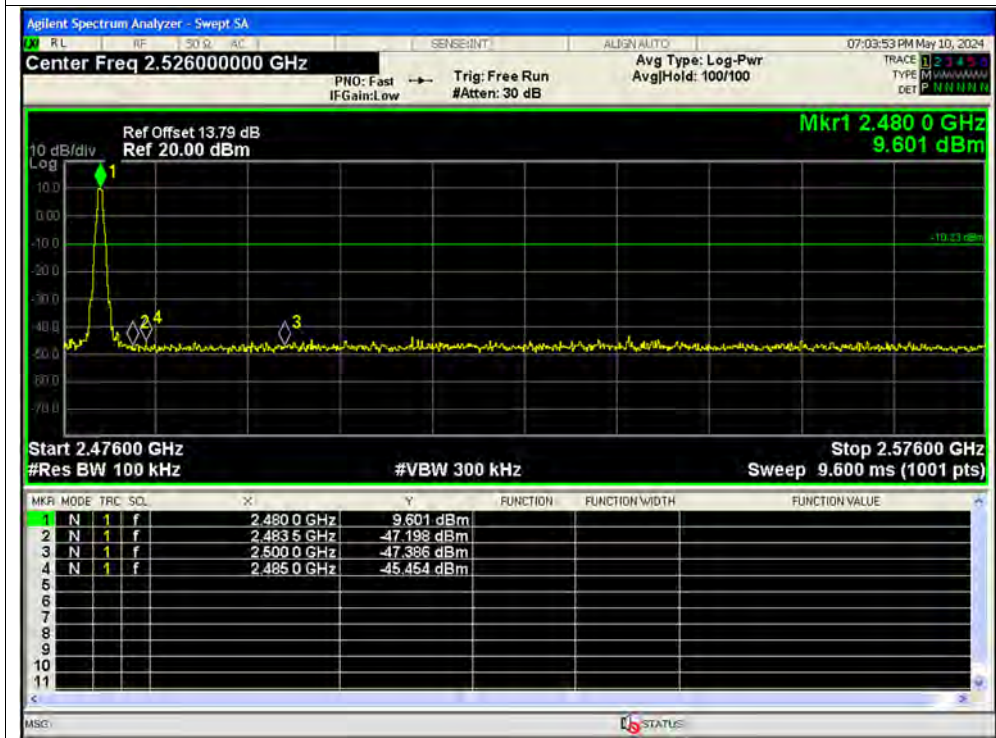




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

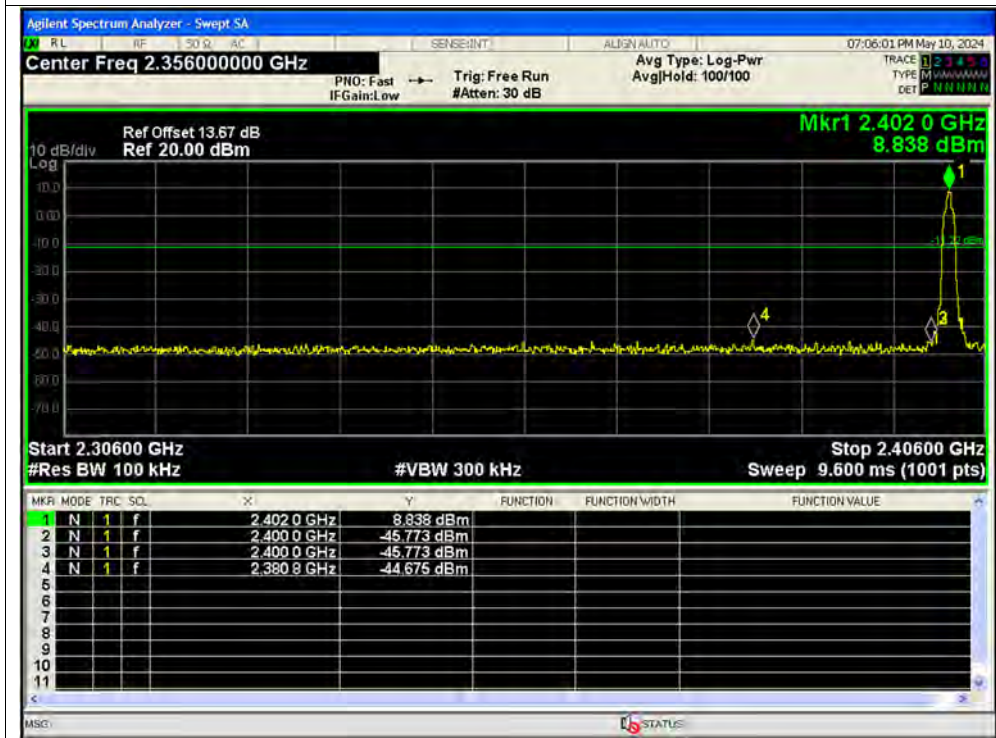




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



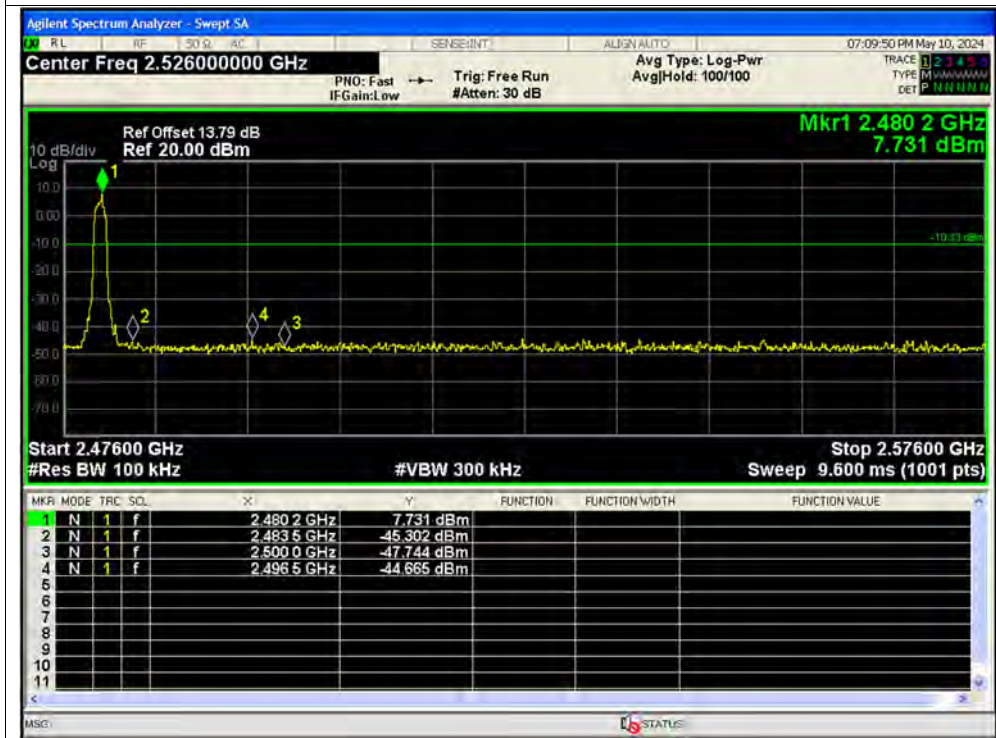
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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



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

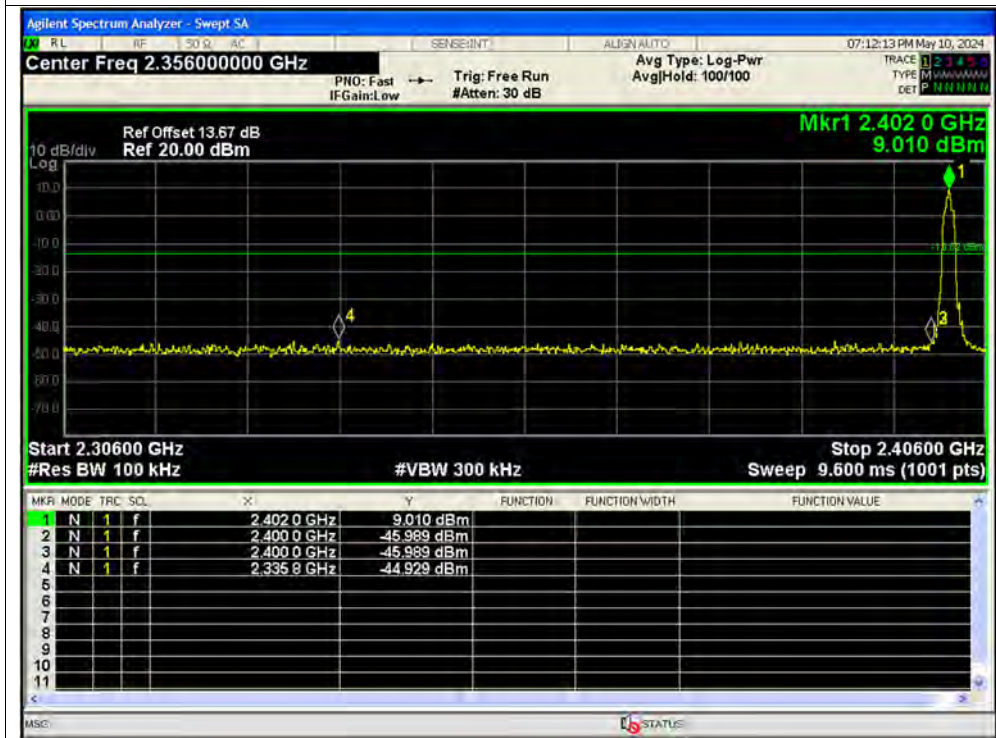




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

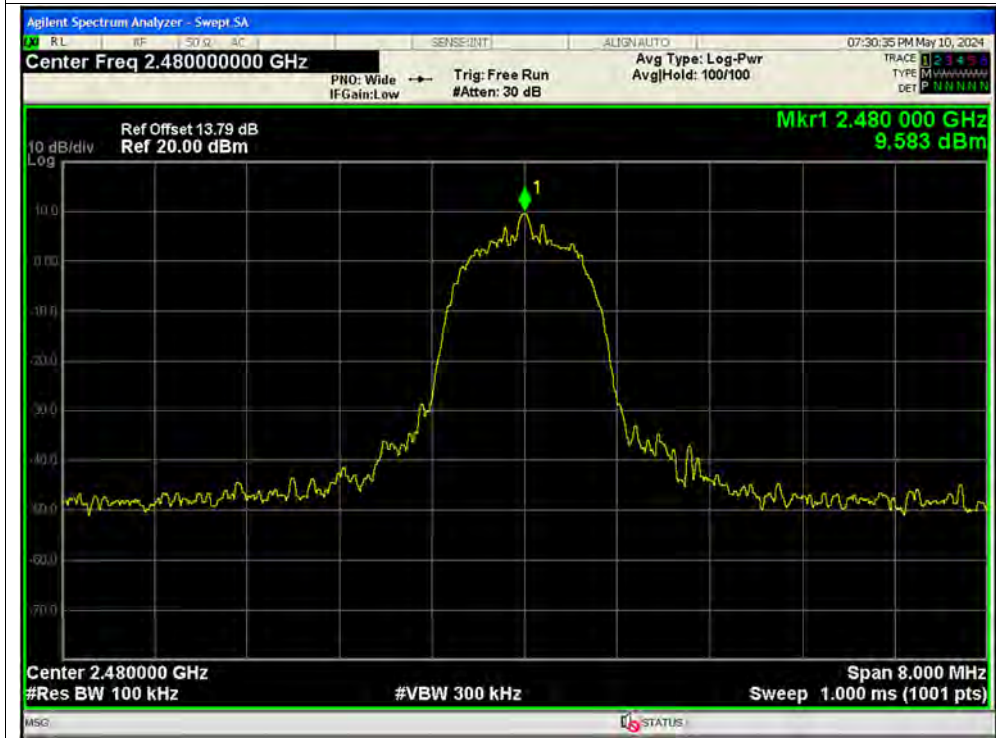


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

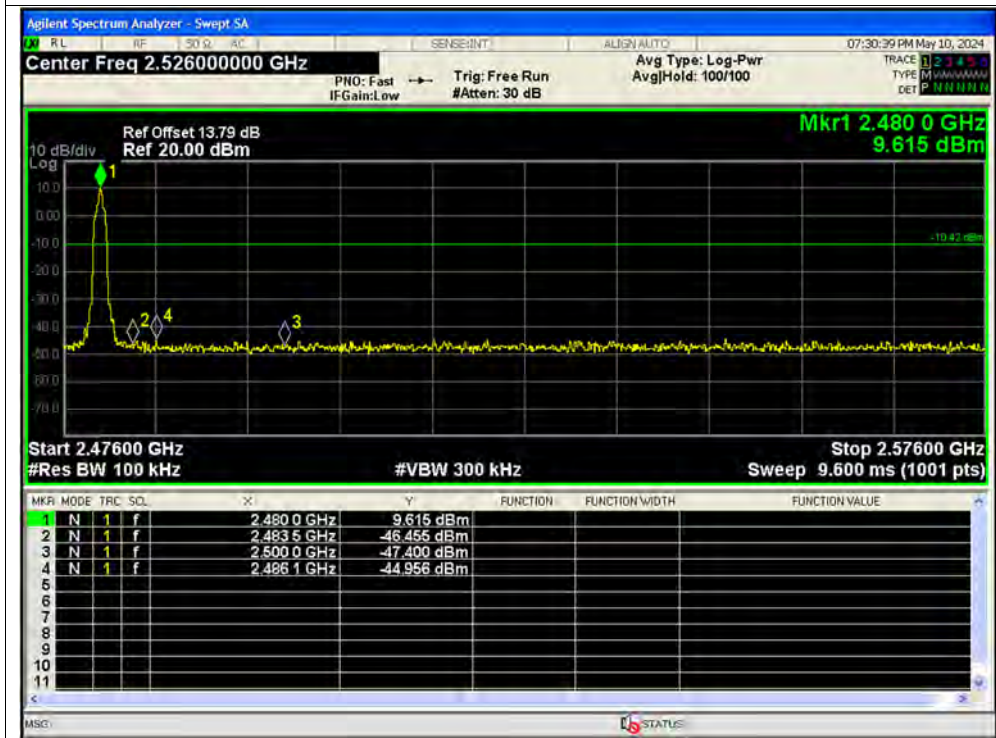


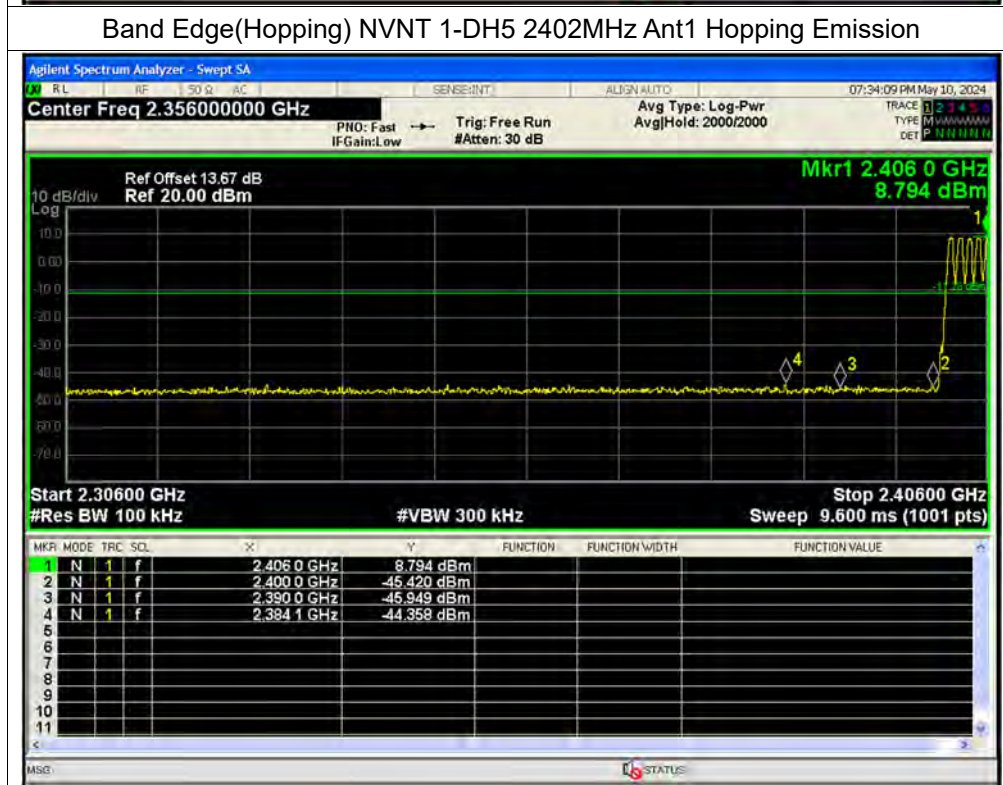


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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

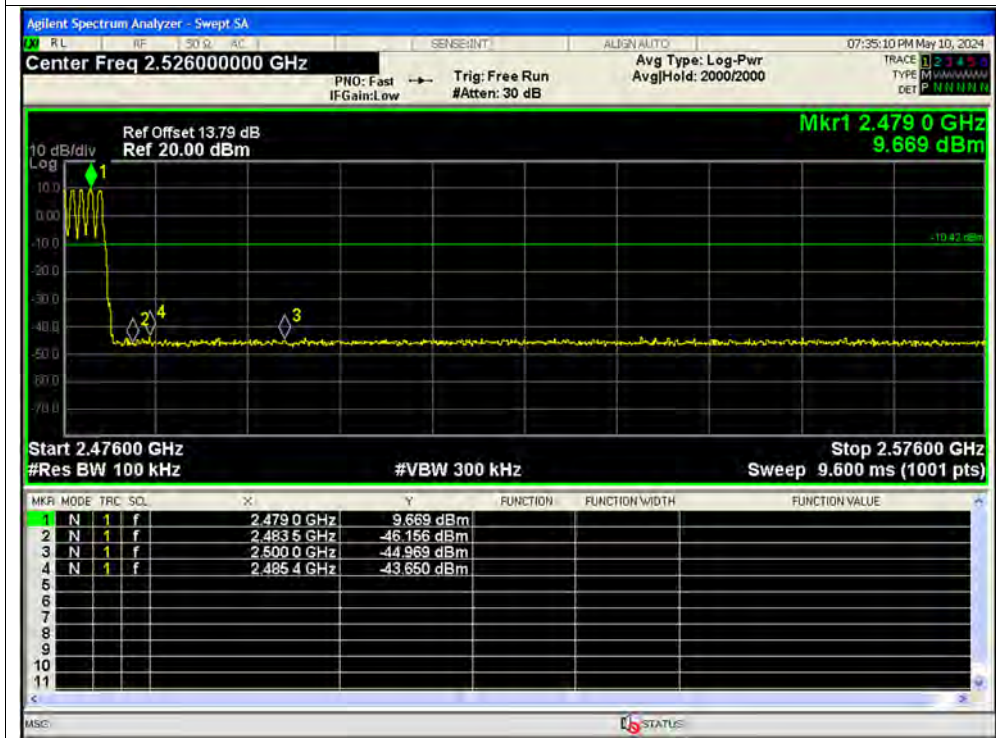




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

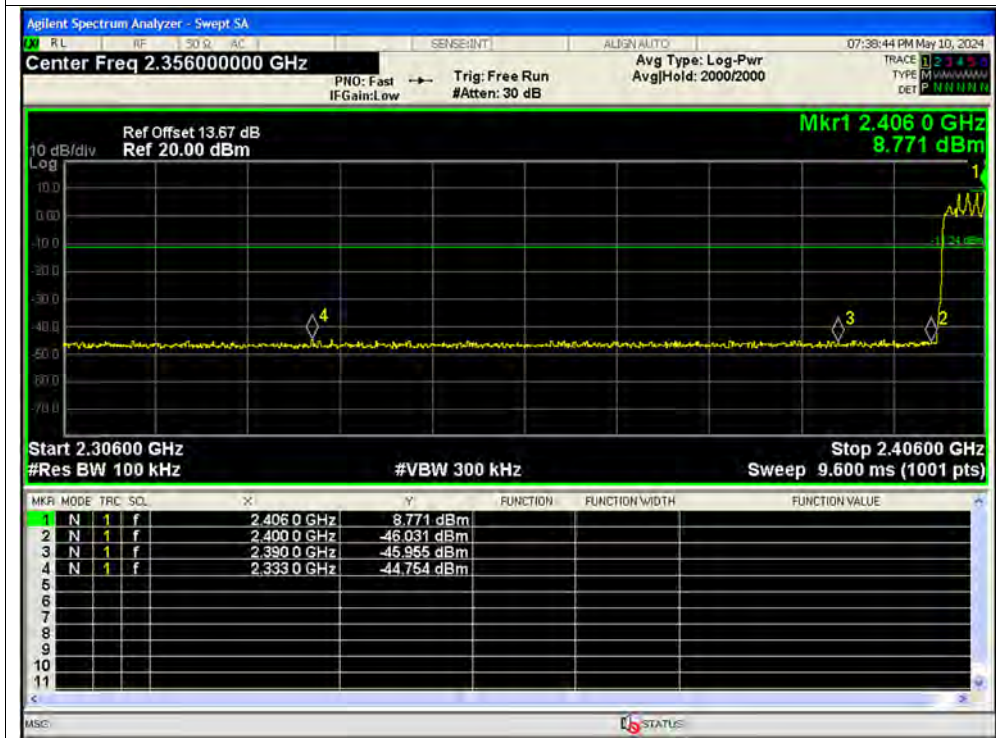




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

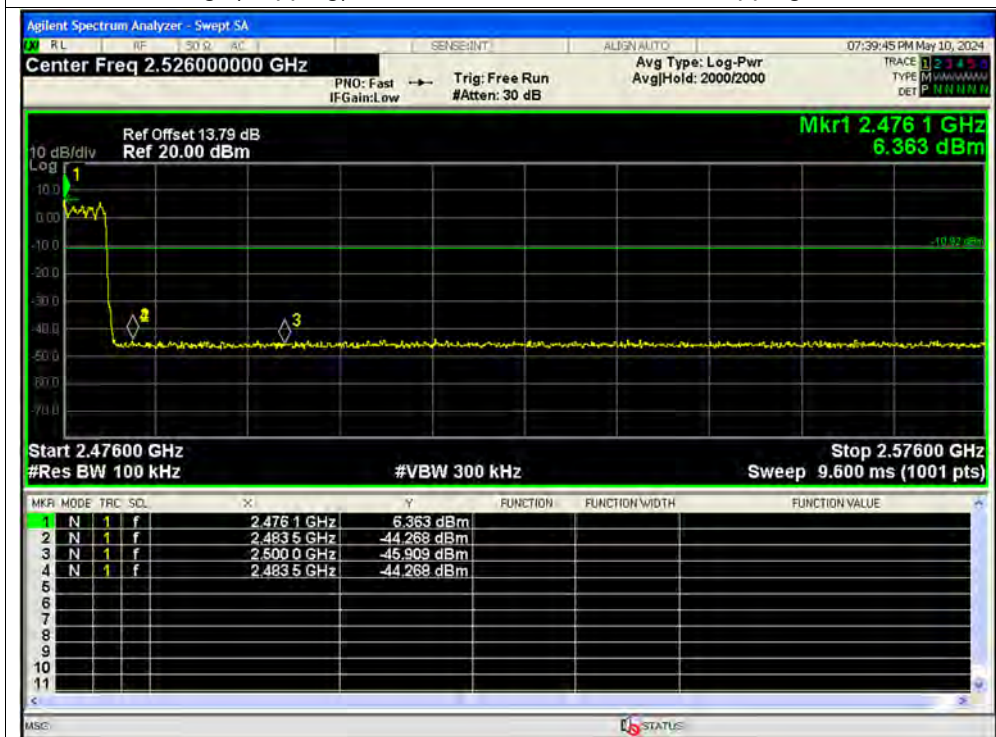




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

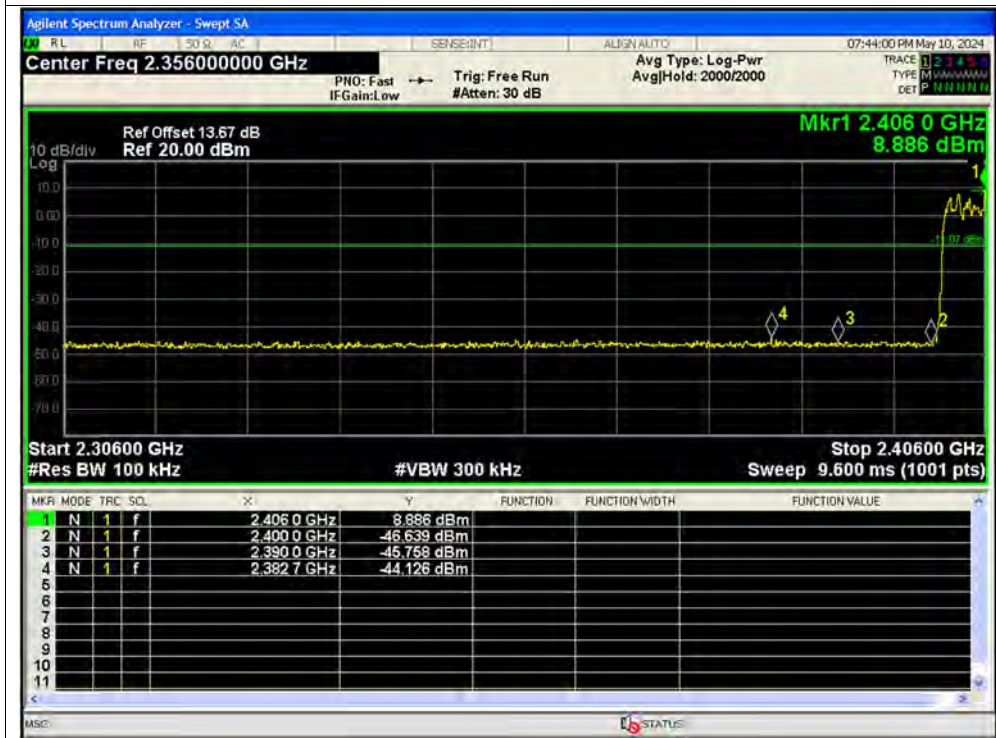




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



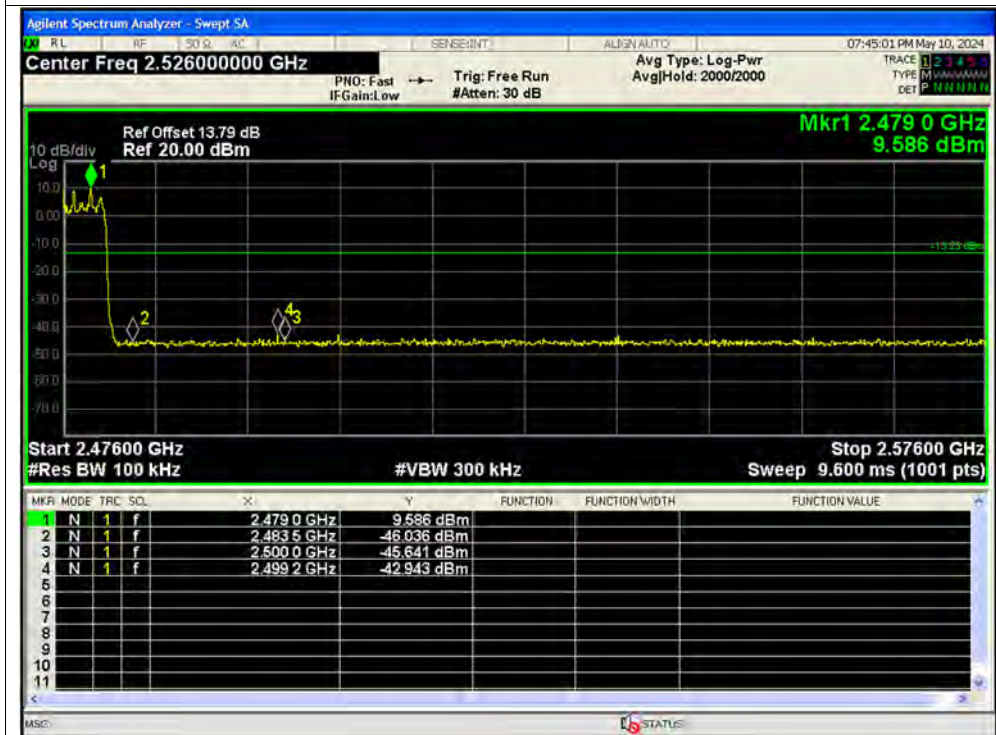
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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





A.10. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+PC+PC Adapter + BT TX

Test voltage: AC 120V/60Hz

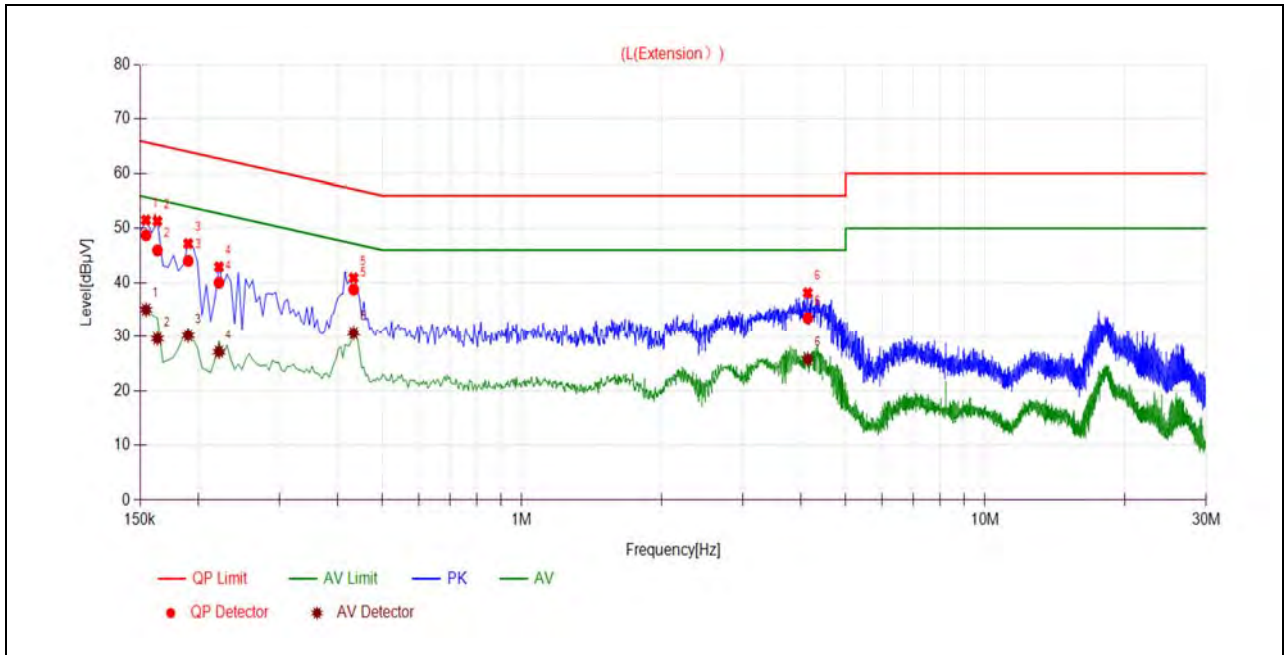
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

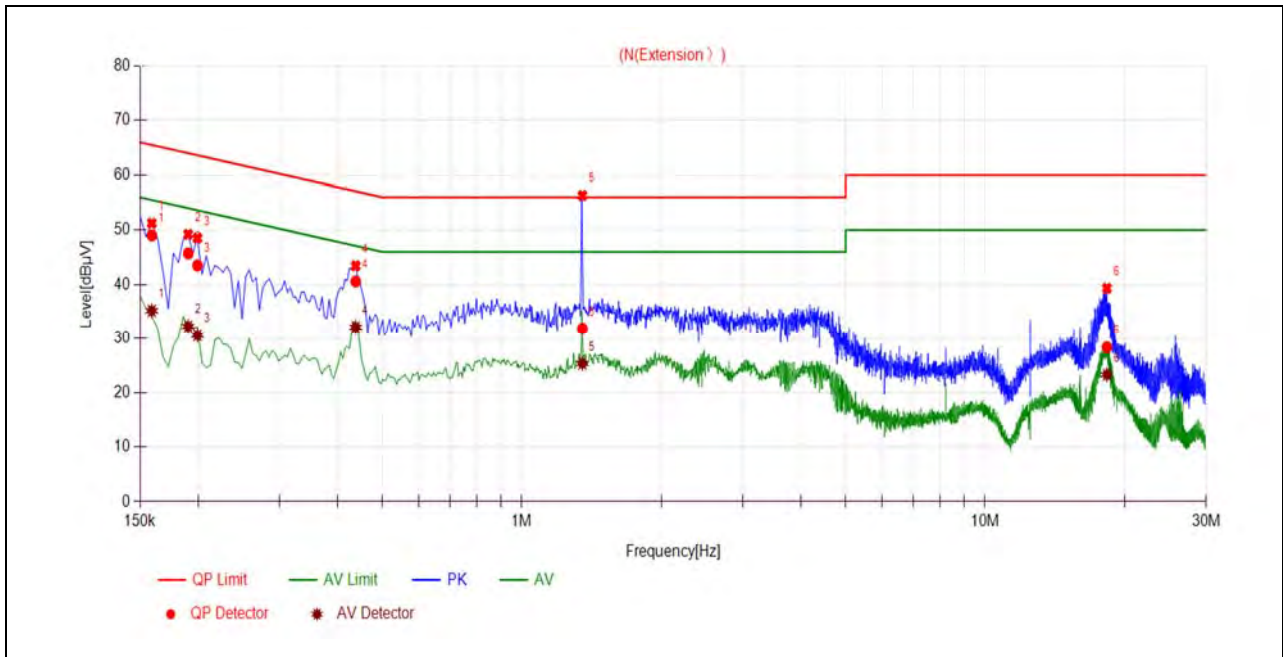
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	48.74	35.01	65.75	55.75	Line	PASS
2	0.1635	45.95	29.60	65.28	55.28		PASS
3	0.1905	44.02	30.18	64.02	54.02		PASS
4	0.2220	40.00	27.14	62.74	52.74		PASS
5	0.4335	38.74	30.65	57.19	47.19		PASS
6	4.1416	33.47	25.79	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	49.02	35.18	65.52	55.52	Neutral	PASS
2	0.1905	45.73	32.28	64.01	54.01		PASS
3	0.1995	43.52	30.62	63.63	53.63		PASS
4	0.4380	40.58	32.14	57.10	47.10		PASS
5	1.3516	31.88	25.32	56.00	46.00		PASS
6	18.3161	28.35	23.26	60.00	50.00		PASS

**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

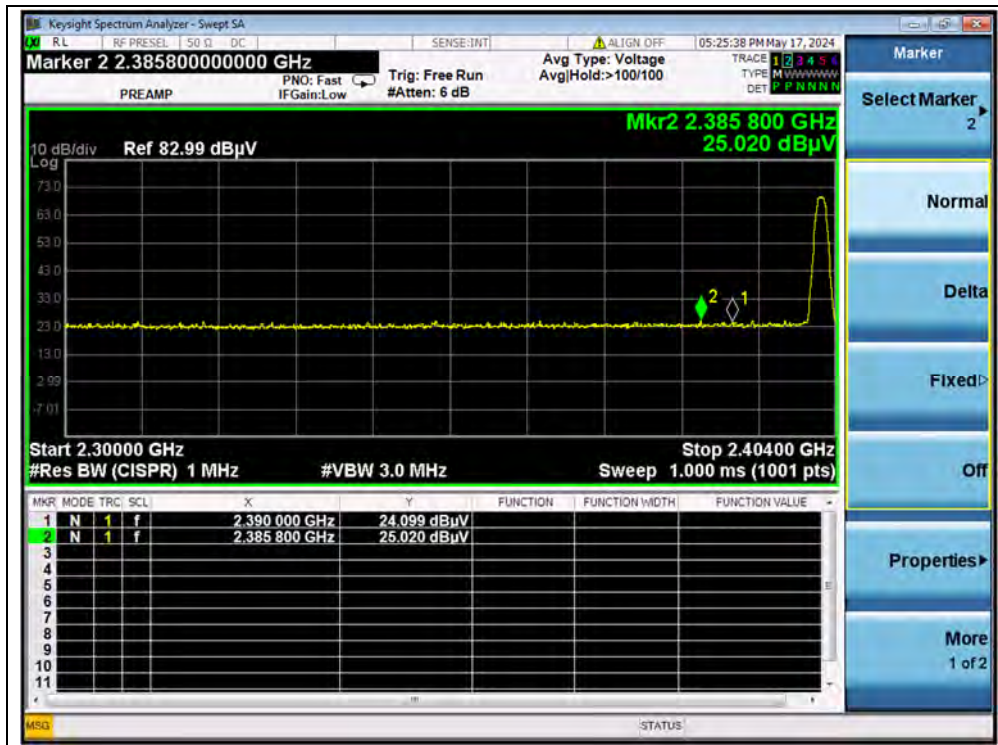
A_{Factor} : Antenna Factor at 3m

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.

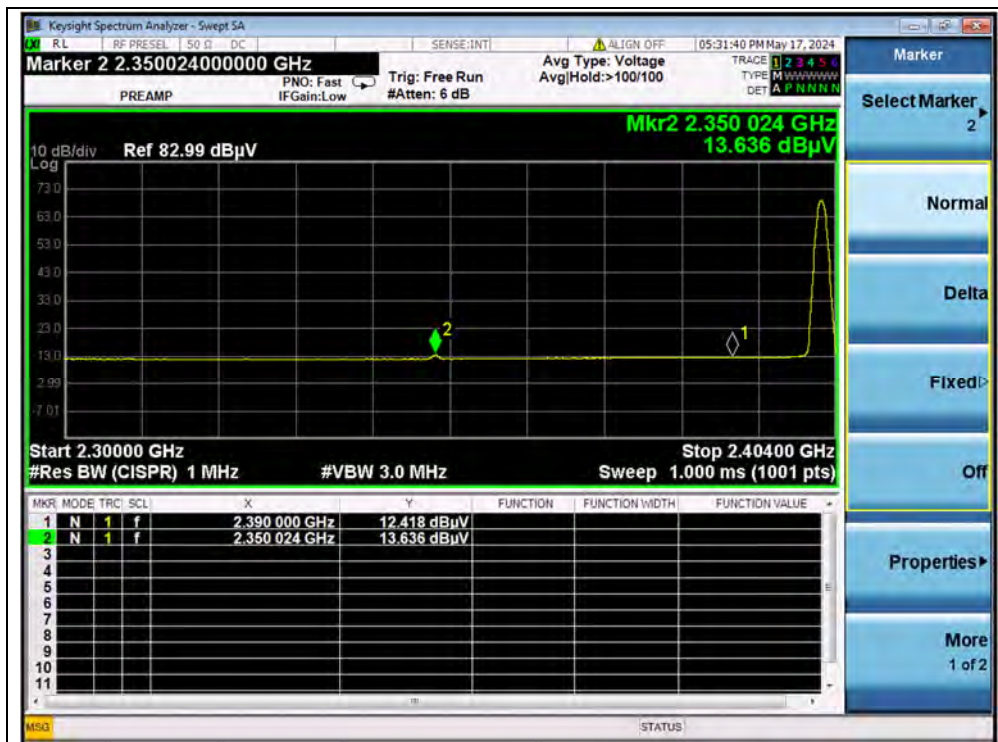
Left

GFSK Mode

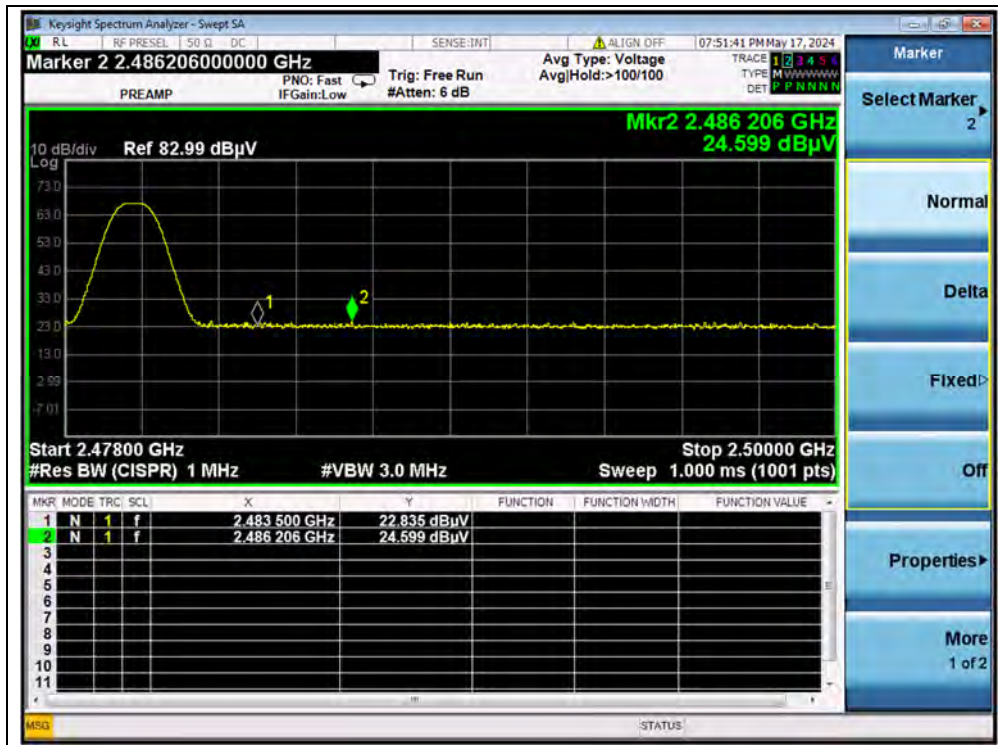
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2385.	PK	25.02	6.74	27.20	58.96	74	PASS
0	2350.02	AV	13.64	6.74	27.20	47.58	54	PASS
78	2486.21	PK	24.60	6.74	27.20	58.54	74	PASS
78	2483.63	AV	12.51	6.74	27.20	46.45	54	PASS



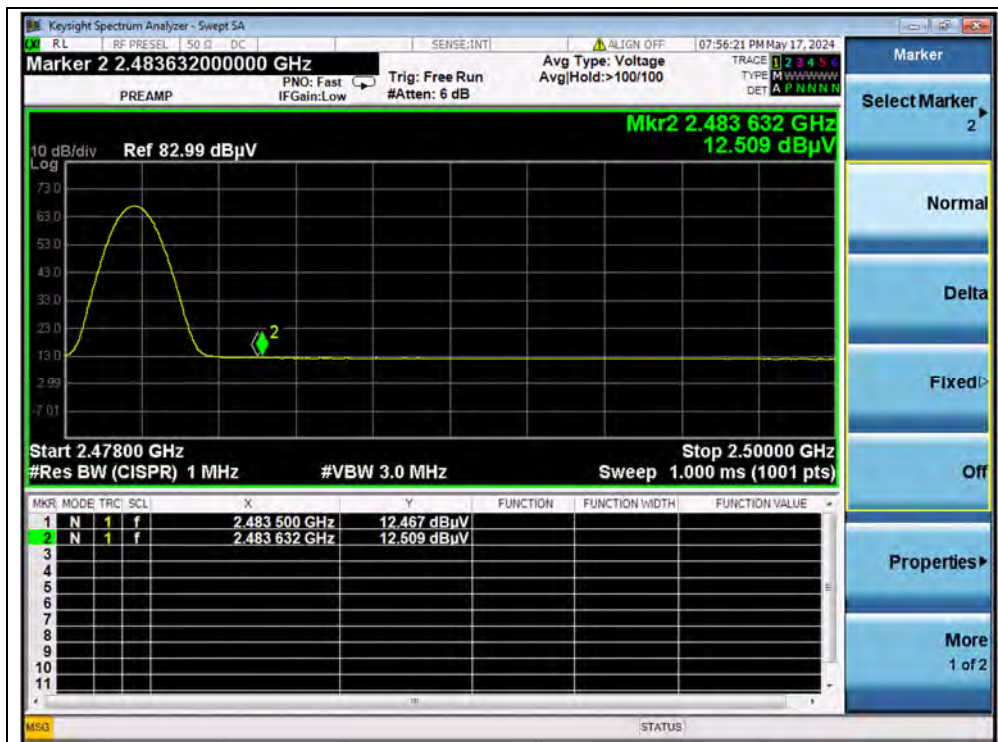
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

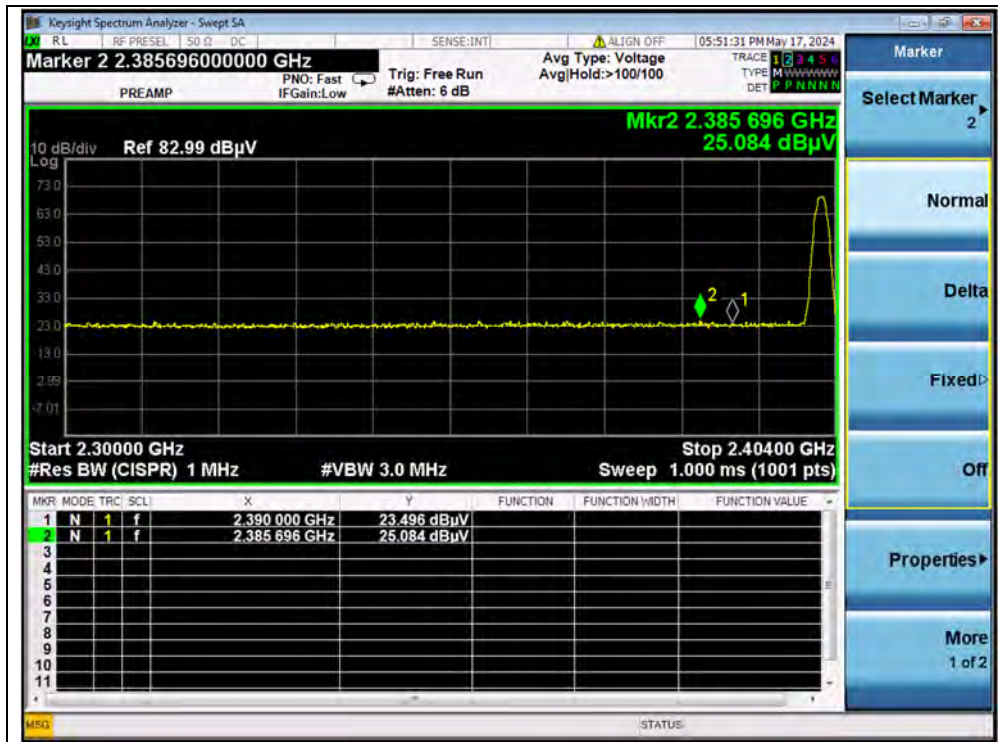


(AVERAGE, Channel 78, GFSK)

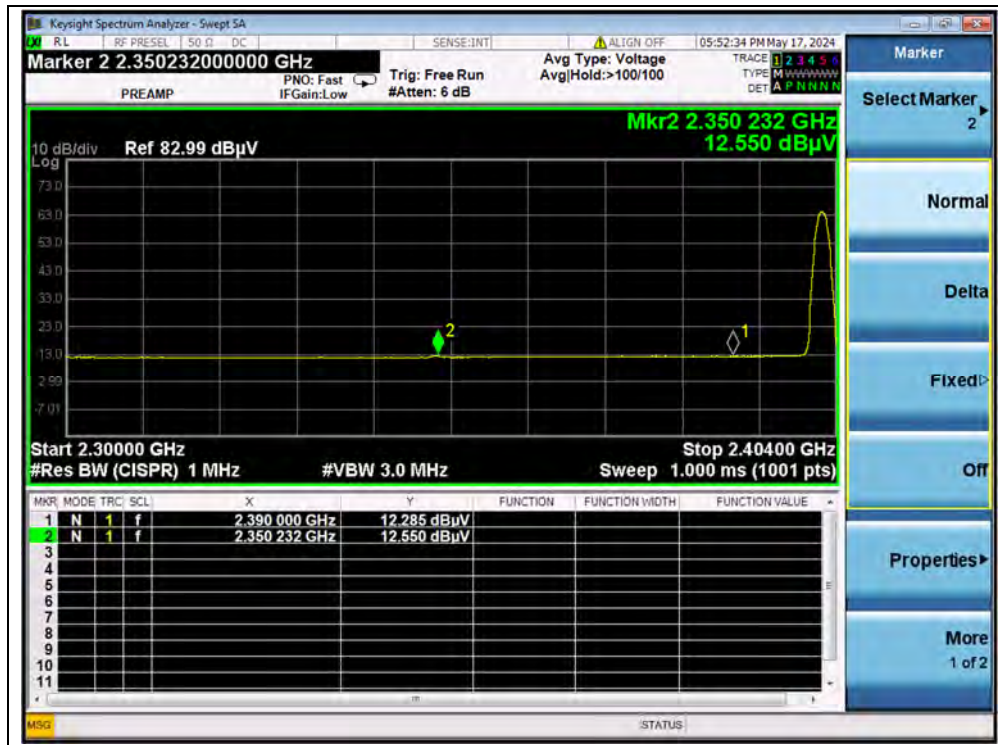


$\pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
0	2385.70	PK	25.08	6.74	27.20	59.02	74	PASS
0	2350.23	AV	12.55	6.74	27.20	46.49	54	PASS
78	2488.47	PK	24.67	6.74	27.20	58.61	74	PASS
78	2483.94	AV	12.39	6.74	27.20	46.33	54	PASS



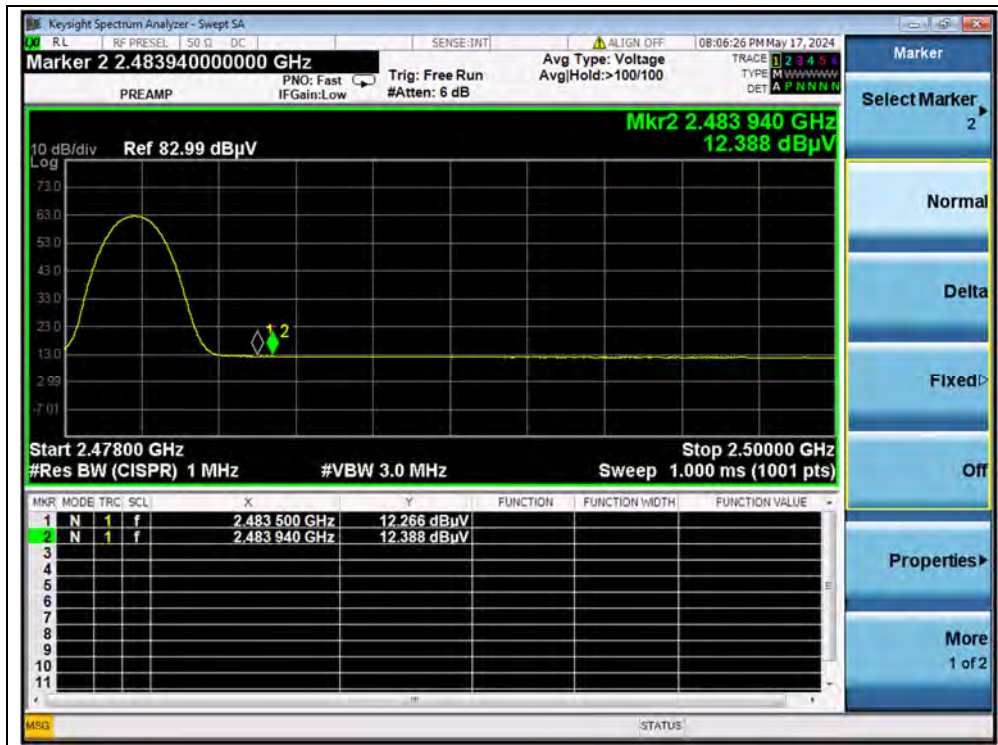
(PEAK, Channel 0, $\pi/4$ -DQPSK)



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



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

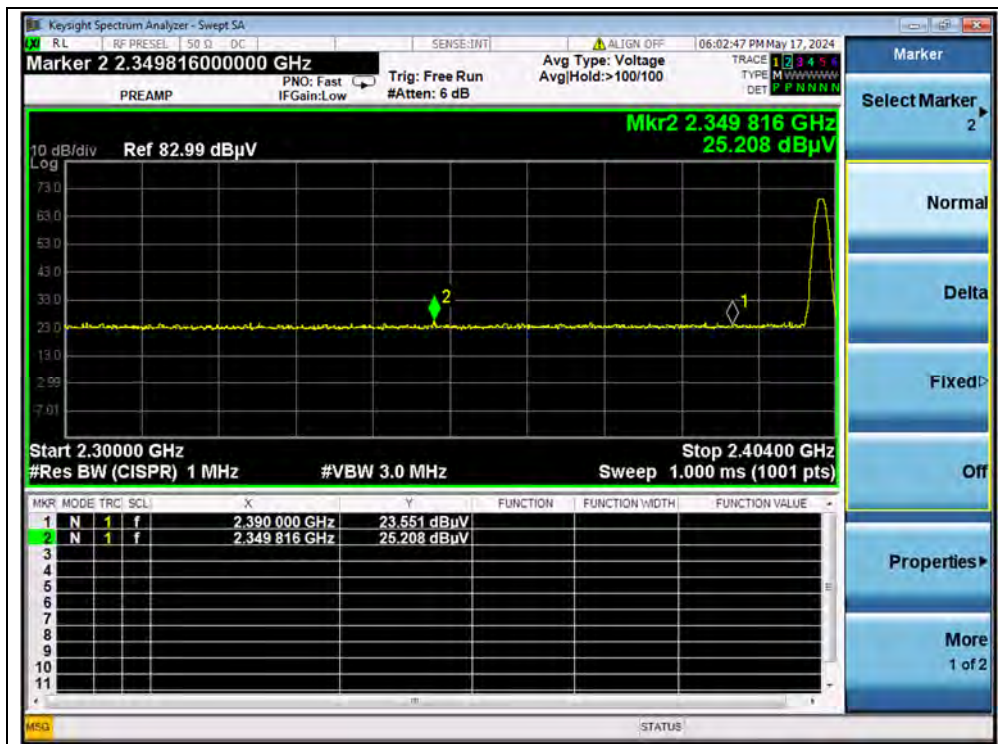


(AVERAGE, Channel 78, π/4-DQPSK)

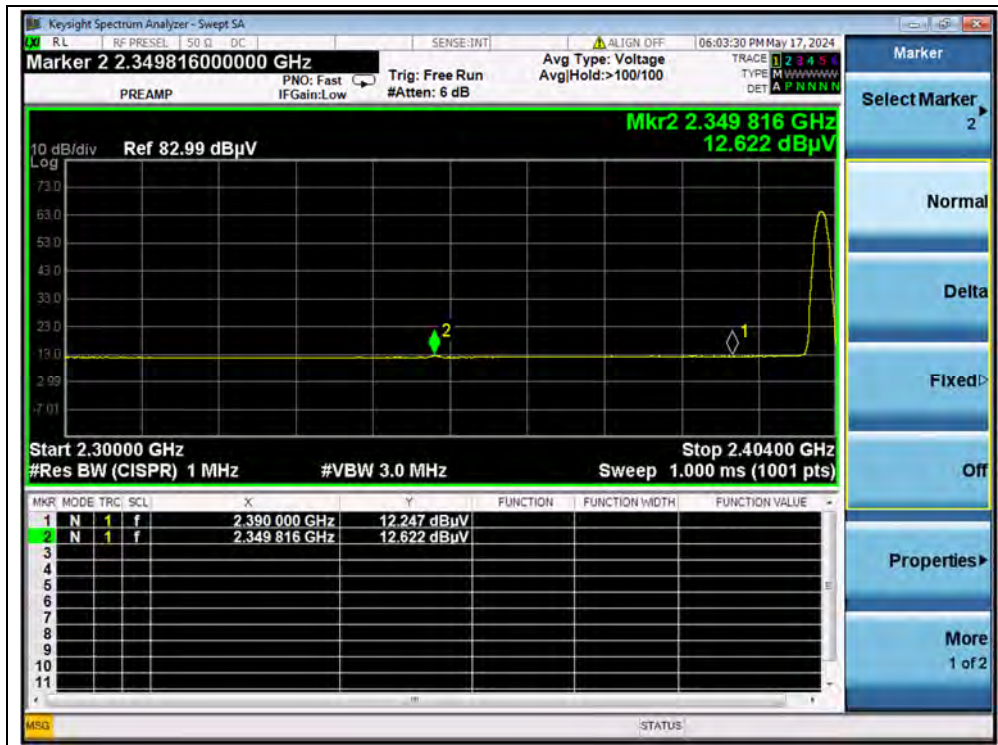


8-DPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
0	2349.82	PK	25.21	6.74	27.20	59.15	74	PASS
0	2349.82	AV	12.62	6.74	27.20	46.56	54	PASS
78	2488.38	PK	24.97	6.74	27.20	58.91	74	PASS
78	2484.12	AV	12.46	6.74	27.20	46.40	54	PASS



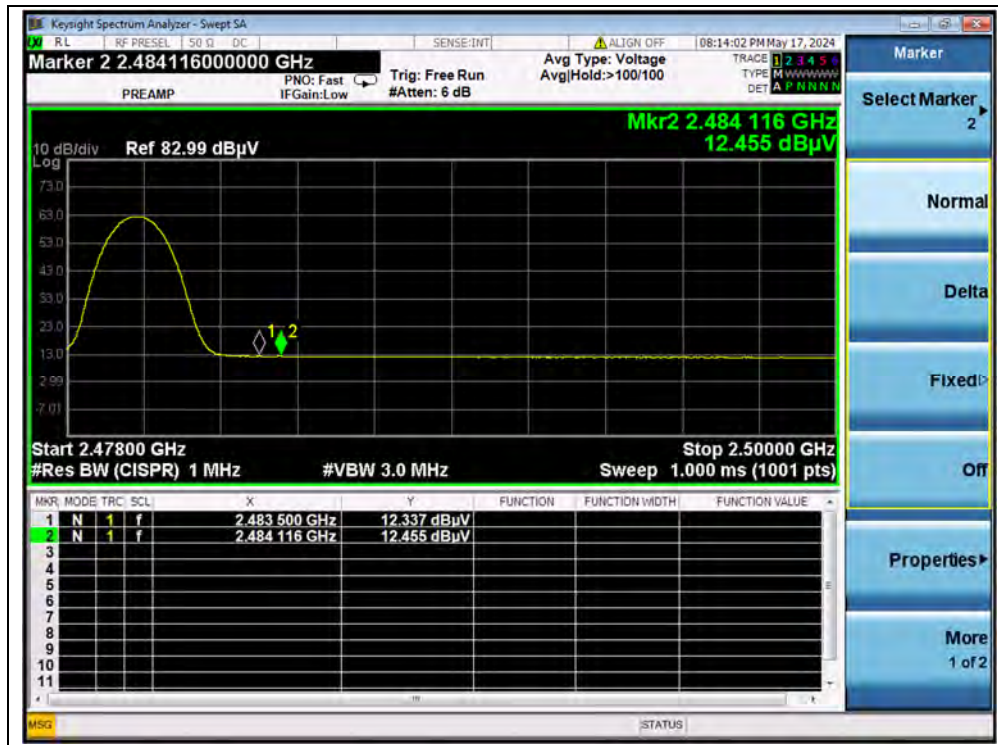
(PEAK, Channel 0, 8-DPSK)



(AVERAGE, Channel 0, 8-DPSK)



(PEAK, Channel 78, 8-DPSK)



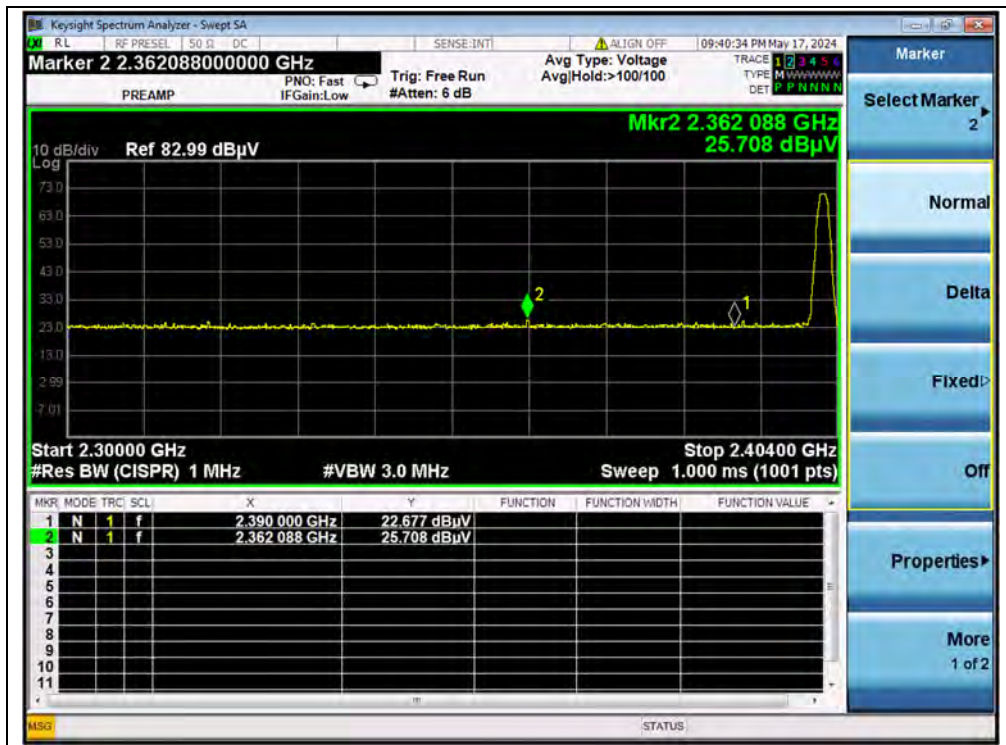
(AVERAGE, Channel 78, 8-DPSK)



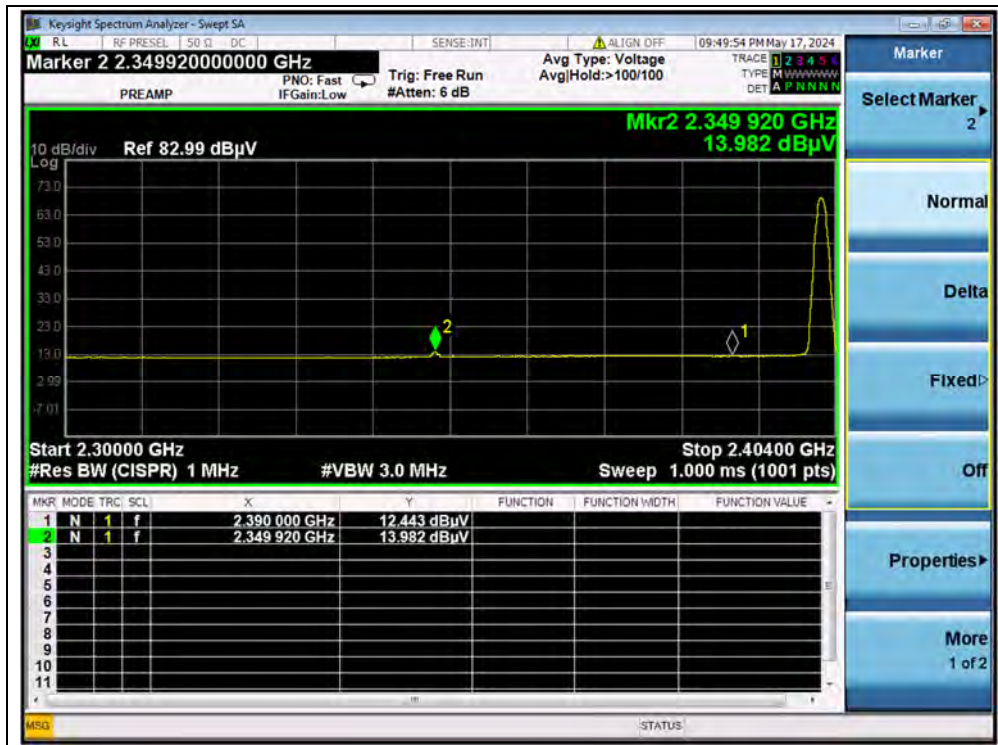
Right

GFSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (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	2362.09	PK	25.71	6.74	27.20	59.65	74	PASS
0	2349.92	AV	13.98	6.74	27.20	47.92	54	PASS
78	2489.15	PK	23.79	6.74	27.20	57.73	74	PASS
78	2483.65	AV	11.88	6.74	27.20	45.82	54	PASS



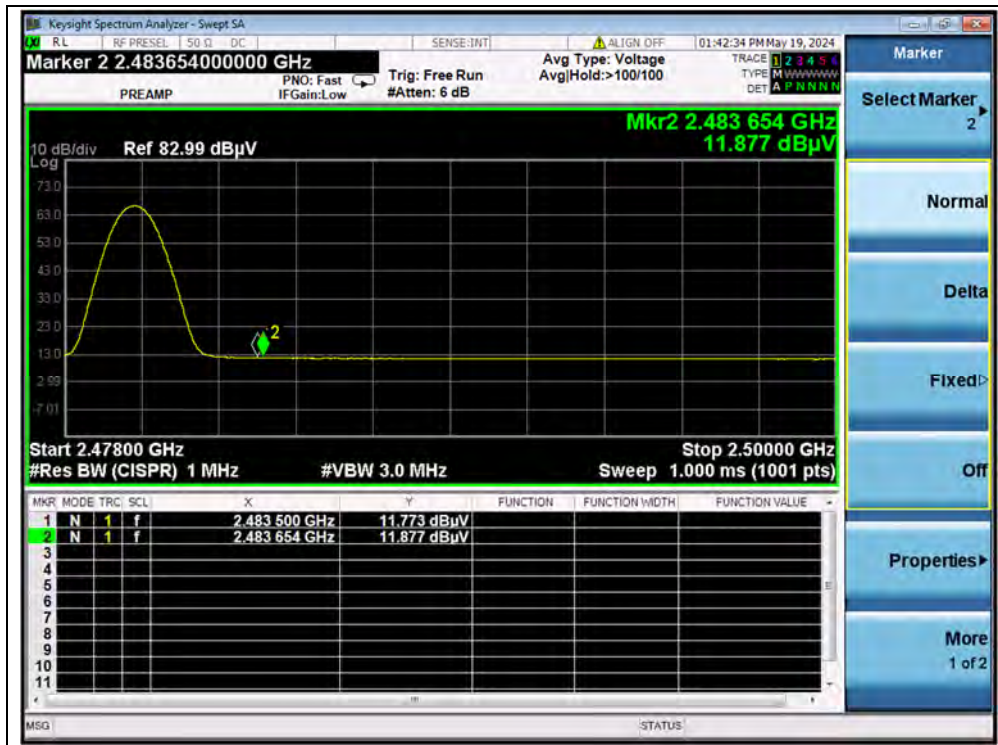
(PEAK, Channel 0, GFSK)



AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

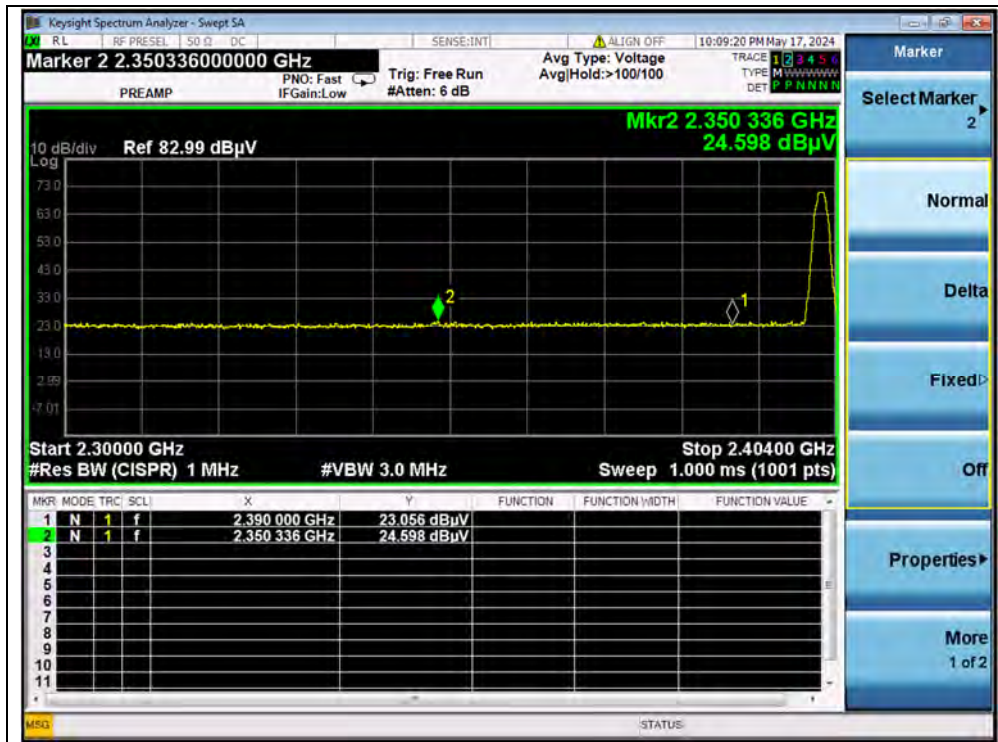


(AVERAGE, Channel 78, GFSK)

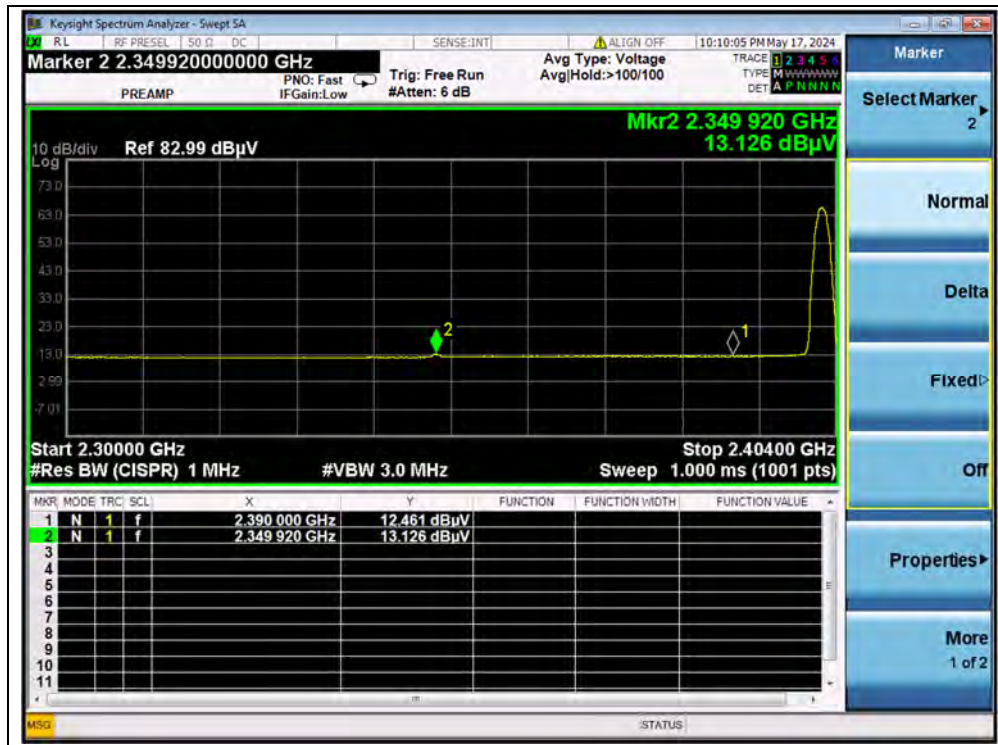


$\pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
0	2350.34	PK	24.60	6.74	27.20	58.54	74	PASS
0	2349.92	AV	13.13	6.74	27.20	47.07	54	PASS
78	2486.54	PK	23.88	6.74	27.20	57.82	74	PASS
78	2484.84	AV	11.71	6.74	27.20	45.65	54	PASS



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



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



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



(AVERAGE, Channel 78, π/4-DQPSK)

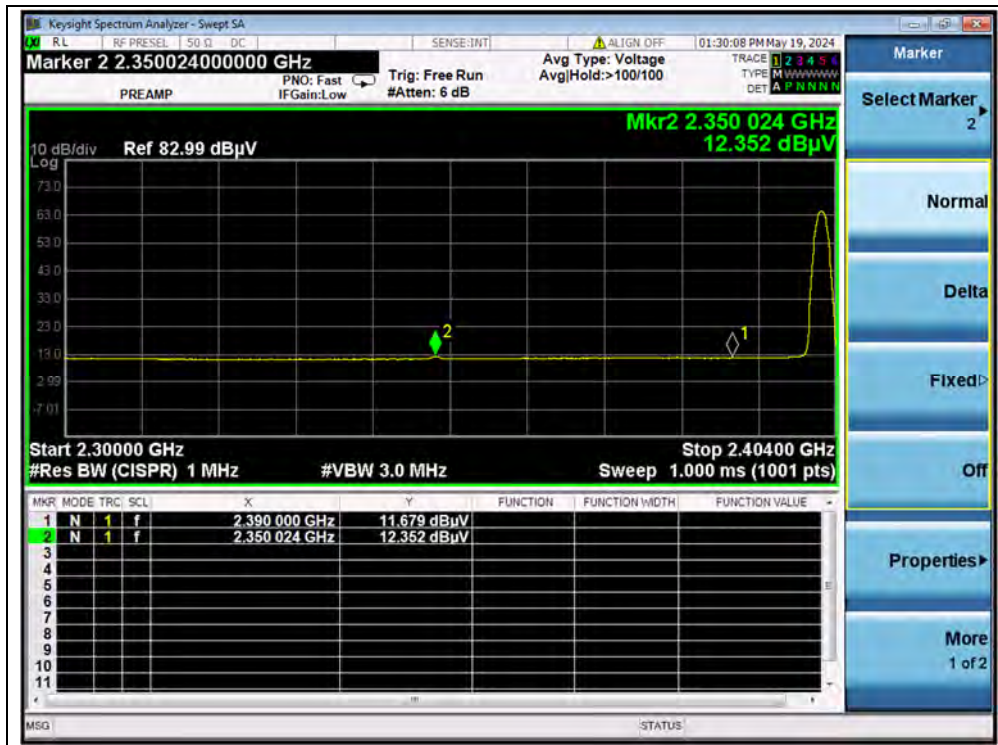


8-DPSK Mode

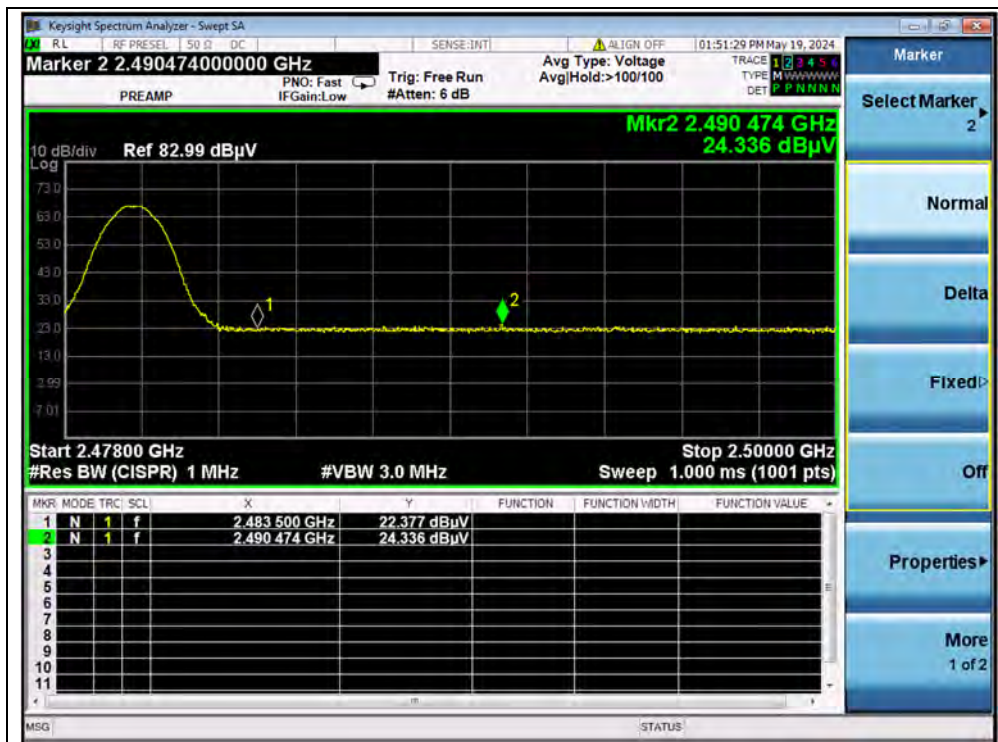
Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
0	3269.78	PK	24.76	6.74	27.20	58.70	74	PASS
0	2350.02	AV	12.35	6.74	27.20	46.29	54	PASS
78	2490.47	PK	24.34	6.74	27.20	58.28	74	PASS
78	2484.29	AV	11.74	6.74	27.20	45.68	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.

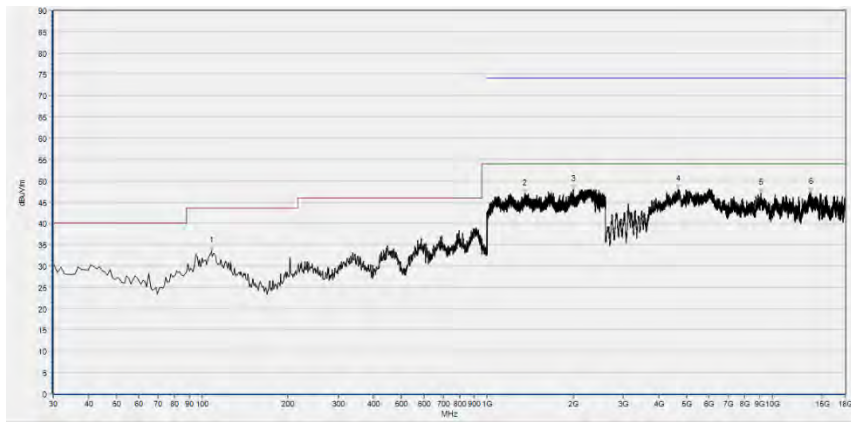
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

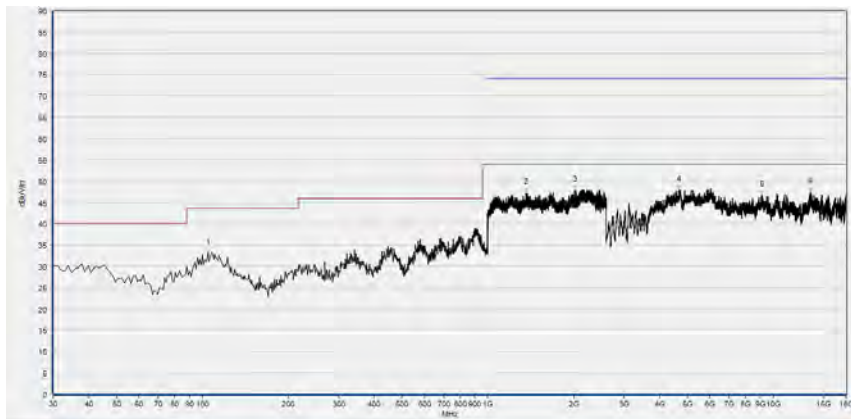
Left, GFSK Mode

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
107.600	33.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1354.667	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2006.400	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4666.680	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9120.360	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13660.280	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

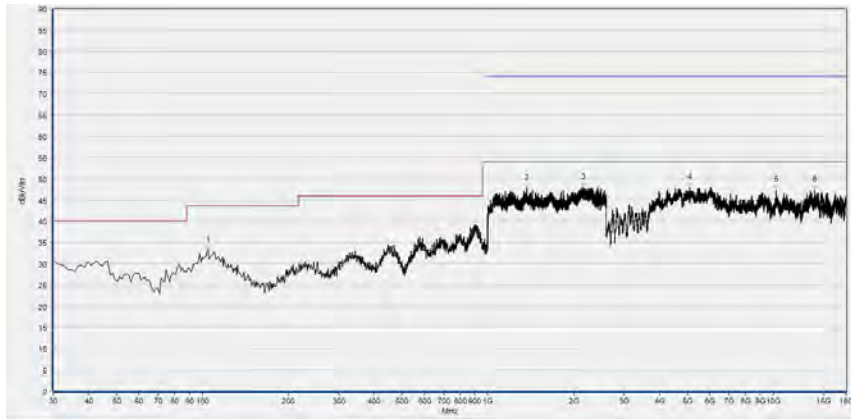
(Antenna Horizontal, 30MHz to 18GHz)



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
104.690	33.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1362.667	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2018.133	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4682.080	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9095.720	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13469.320	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

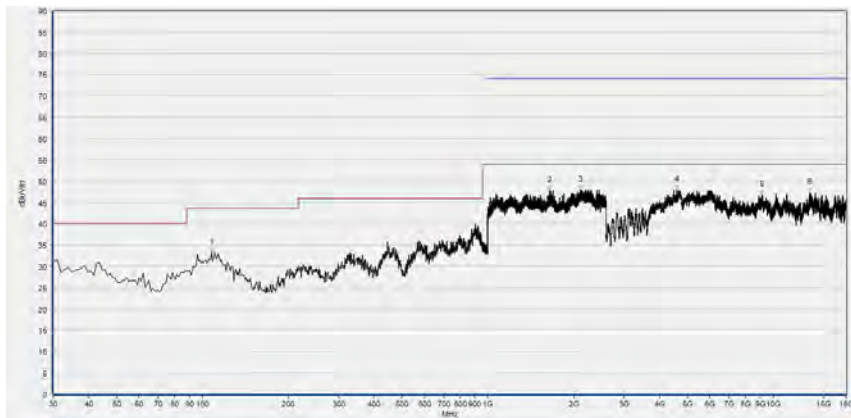
(Antenna Vertical, 30MHz to 18GHz)

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
104.690	33.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1371.733	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2164.267	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5085.560	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10232.240	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13989.840	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

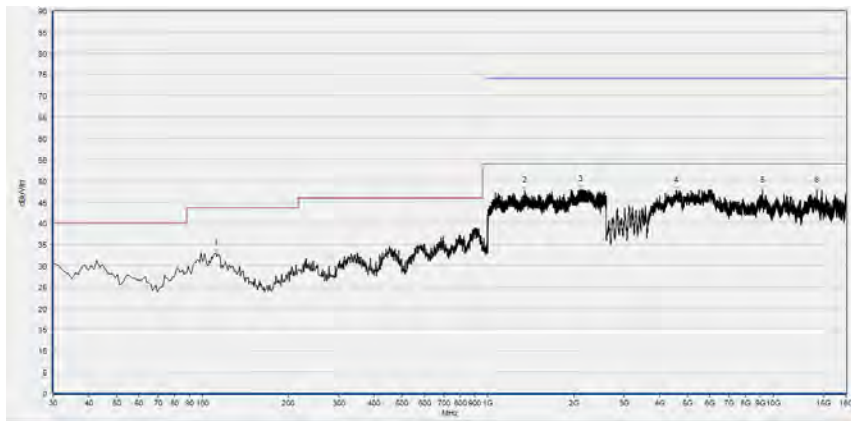
(Antenna Horizontal, 30MHz to 18GHz)



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
107.600	33.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1644.267	47.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2112.000	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4586.600	47.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9145.000	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13453.920	47.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

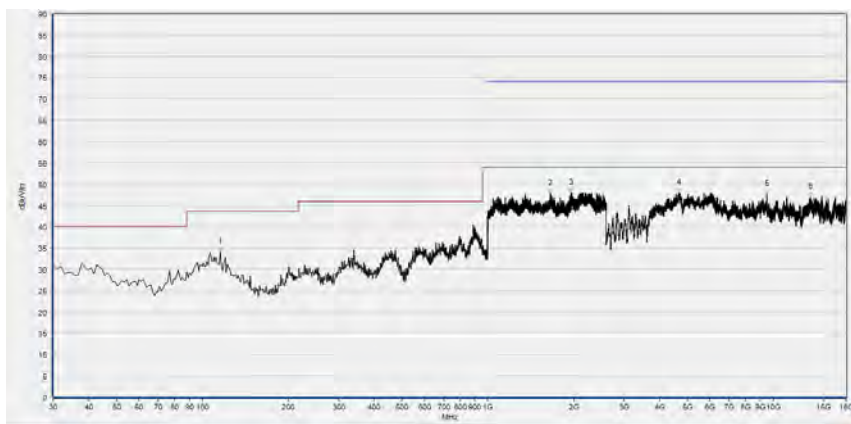
(Antenna Vertical, 30MHz to 18GHz)

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
111.480	32.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.333	47.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2114.133	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4565.040	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9160.400	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14190.040	47.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

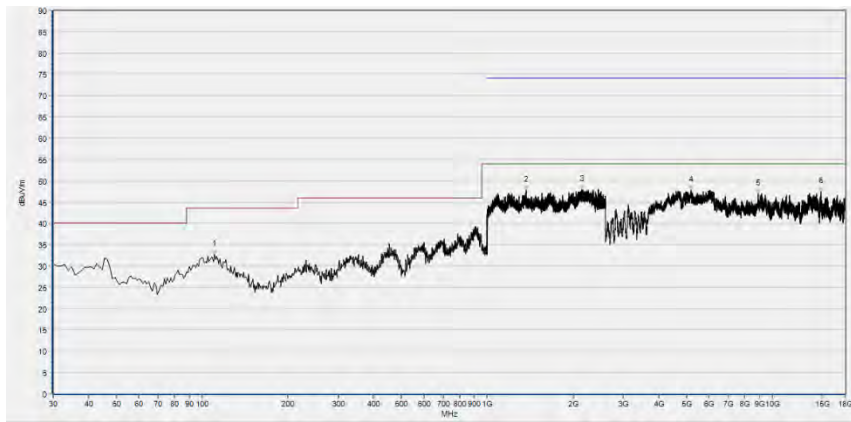


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.360	34.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1658.133	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1962.133	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4666.680	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9508.440	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13469.320	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

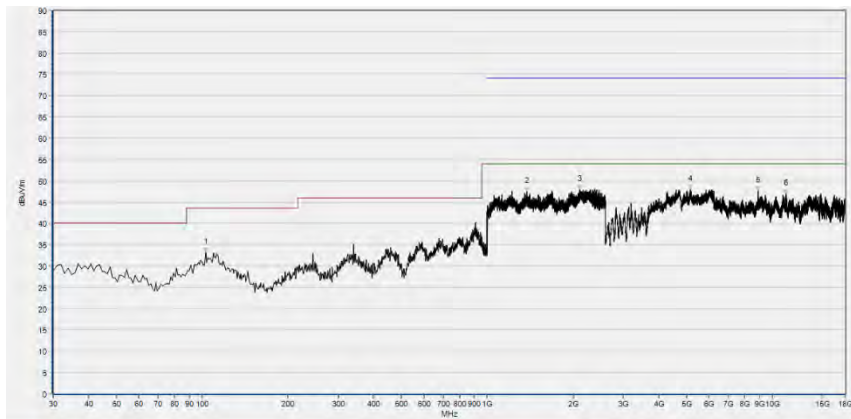
$\pi/4$ -DQPSK Mode

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
110.510	32.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1366.933	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2152.533	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5177.960	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8889.360	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14781.400	47.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

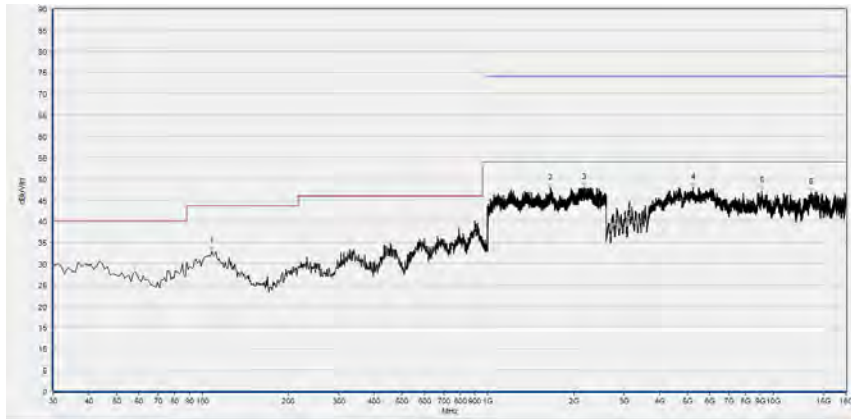
(Antenna Horizontal, 30MHz to 18GHz)



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	33.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1374.933	47.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2110.400	47.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5147.160	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8901.680	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11177.800	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

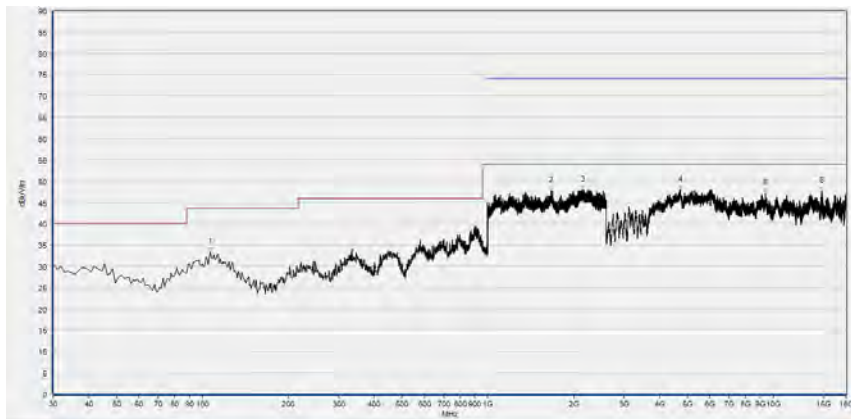
(Antenna Vertical, 30MHz to 18GHz)

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	32.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1658.133	47.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2175.467	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5242.640	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13570.960	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

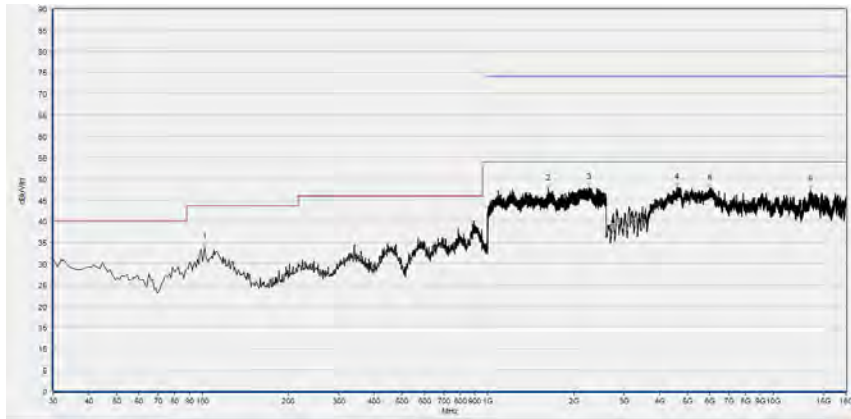
(Antenna Horizontal, 30MHz to 18GHz)



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
106.630	33.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1661.867	47.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2148.800	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.280	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9391.400	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14806.040	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

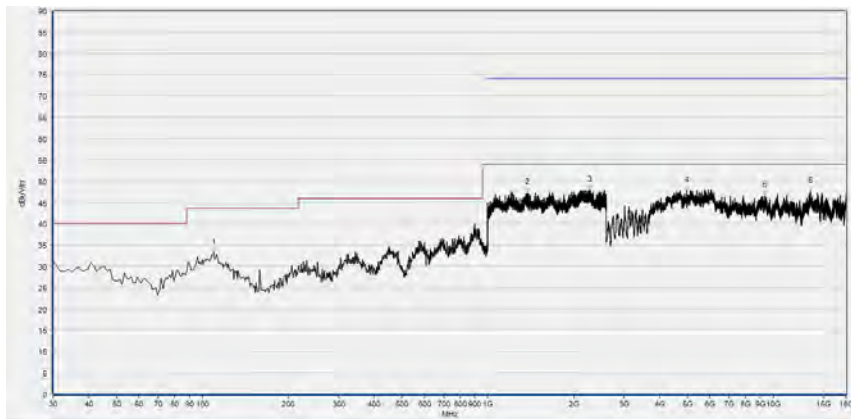
(Antenna Vertical, 30MHz to 18GHz)

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
101.780	33.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1630.400	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2254.400	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4595.840	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5994.160	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13469.320	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

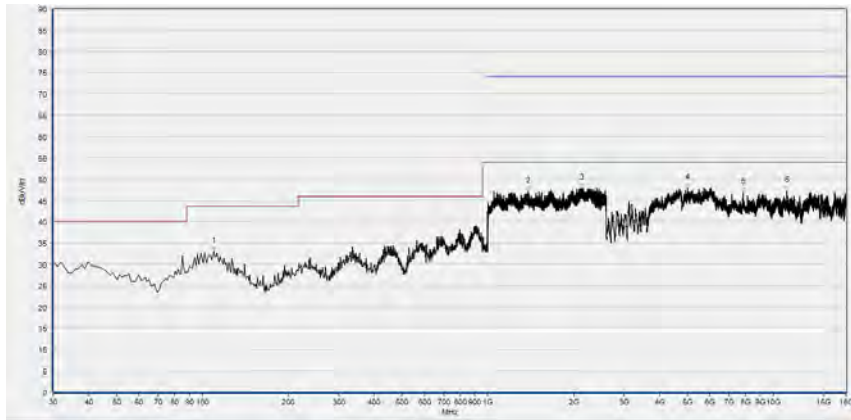


Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	33.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1380.267	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2269.867	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4965.440	47.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9351.360	46.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13466.240	47.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

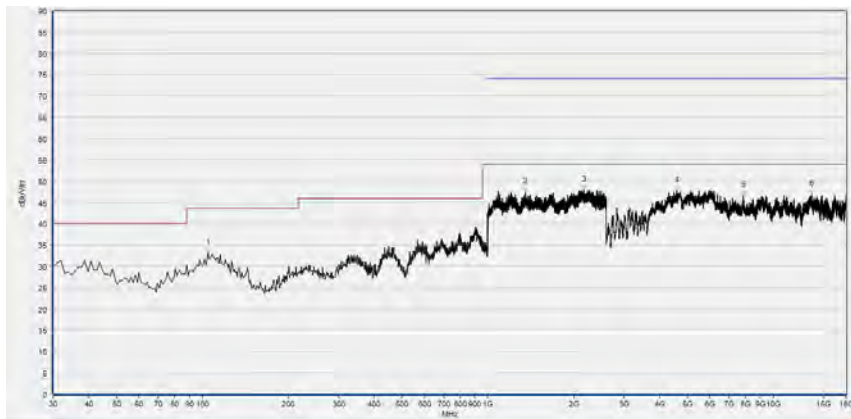
8-DPSK Mode

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
109.540	33.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1381.333	47.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2132.800	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5008.560	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7842.160	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11156.240	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

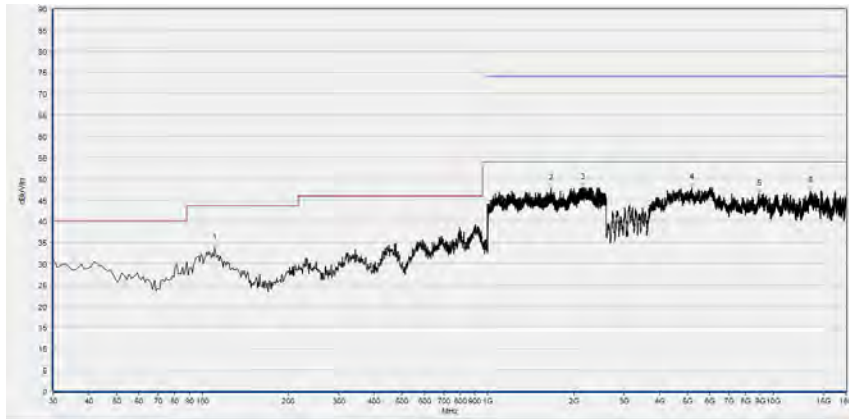
(Antenna Horizontal, 30MHz to 18GHz)



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
104.690	33.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1350.933	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2173.333	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4592.760	47.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7842.160	46.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13611.000	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

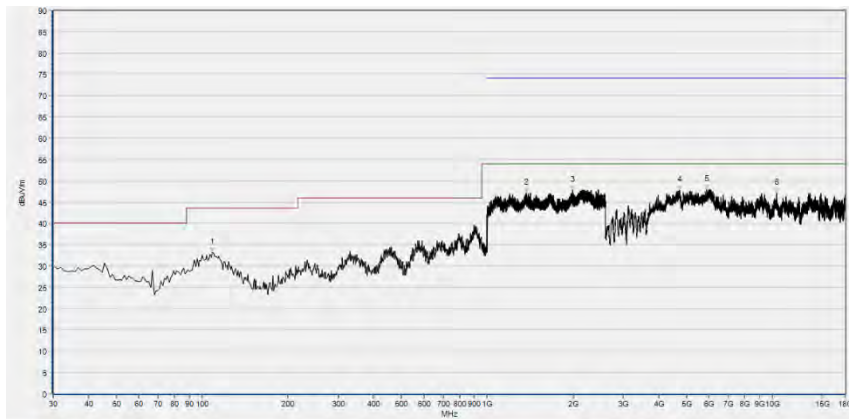
(Antenna Vertical, 30MHz to 18GHz)

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	33.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1663.467	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2144.533	47.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5187.200	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8907.840	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13487.800	47.02	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
108.570	33.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1369.600	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1994.667	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	47.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5877.120	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10327.720	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

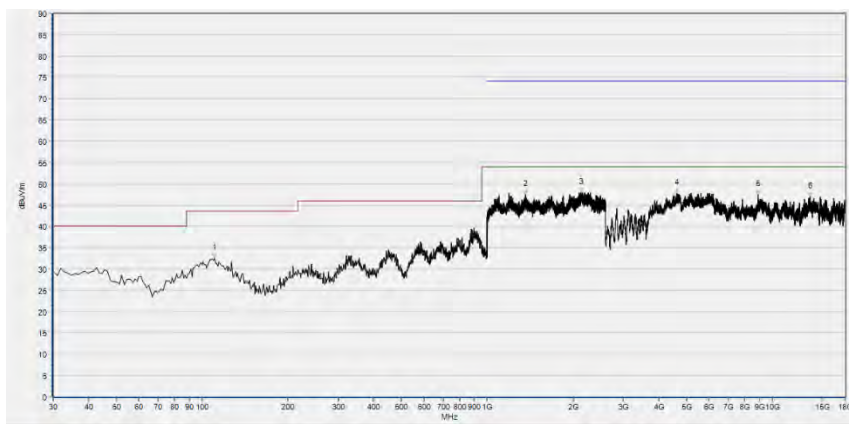
(Antenna Vertical, 30MHz to 18GHz)

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
103.720	33.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1675.200	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2132.800	47.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4685.160	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6089.640	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9181.960	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

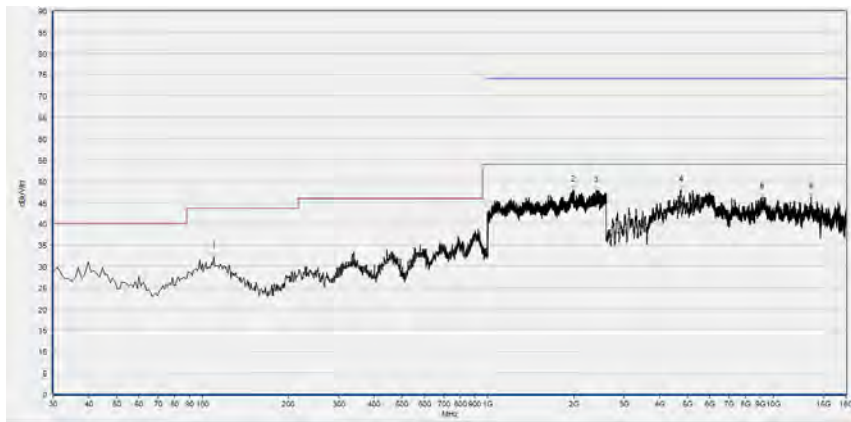


Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	32.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1361.600	47.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2128.000	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4632.800	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8917.080	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13552.480	46.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

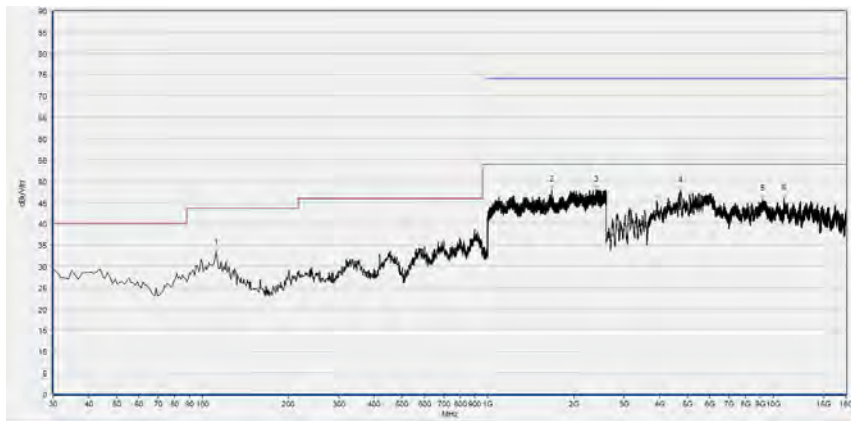
Right, GFSK Mode

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
109.540	32.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1988.800	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2401.600	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9095.720	46.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13564.800	46.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

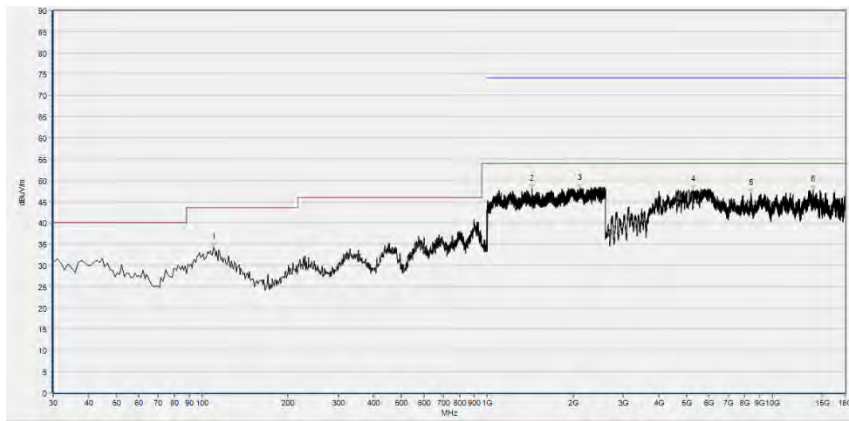
(Antenna Horizontal, 30MHz to 18GHz)



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	33.24	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1678.933	47.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2401.600	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9160.400	45.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10925.240	45.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

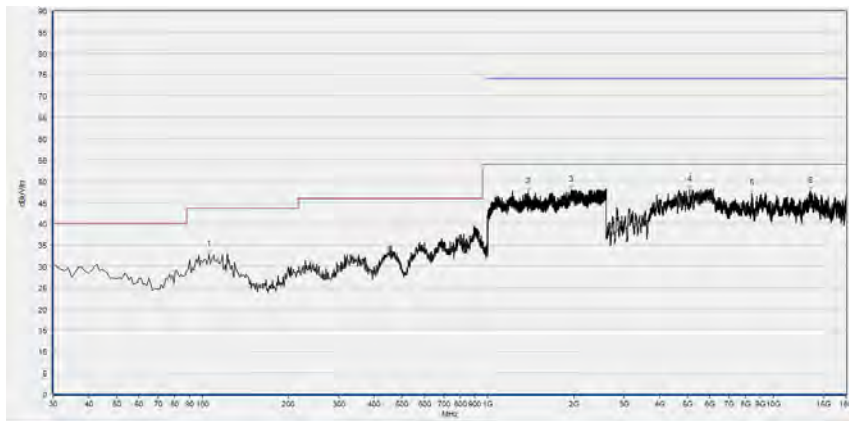
(Antenna Vertical, 30MHz to 18GHz)

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	34.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1433.067	47.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2113.600	47.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5288.840	47.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13900.520	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

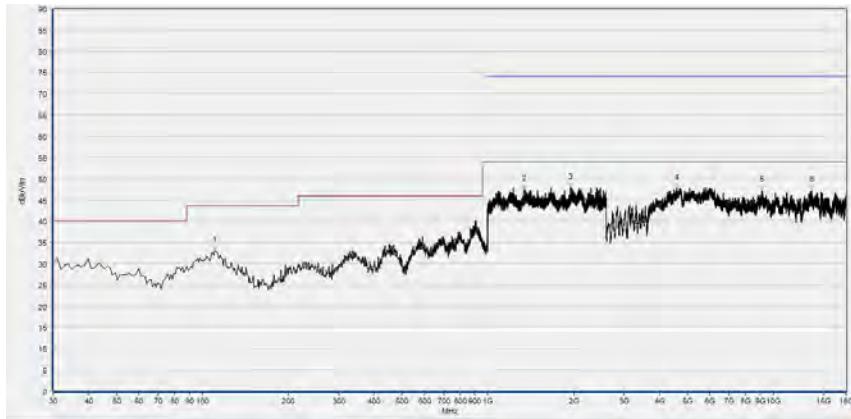
(Antenna Horizontal, 30MHz to 18GHz)



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	32.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1383.467	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1954.133	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5100.960	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8427.360	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13487.800	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

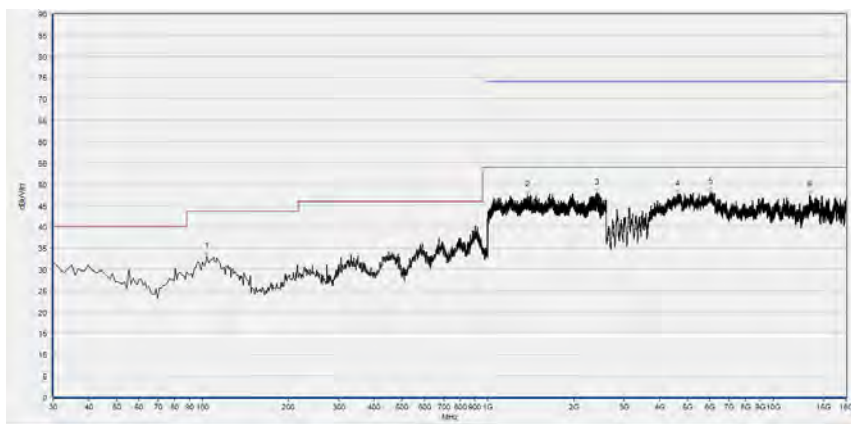
(Antenna Vertical, 30MHz to 18GHz)

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
110.510	33.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1334.400	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1945.067	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4583.520	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9123.440	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13669.520	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

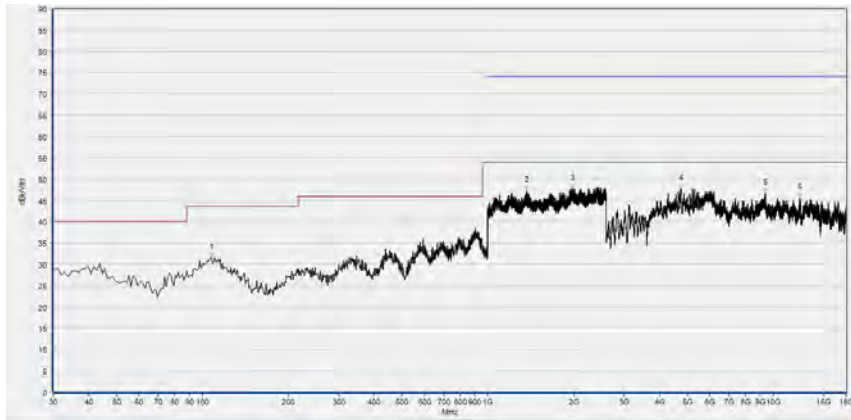


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
103.720	33.06	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1373.333	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2402.133	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4620.480	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6037.280	47.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13450.840	47.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

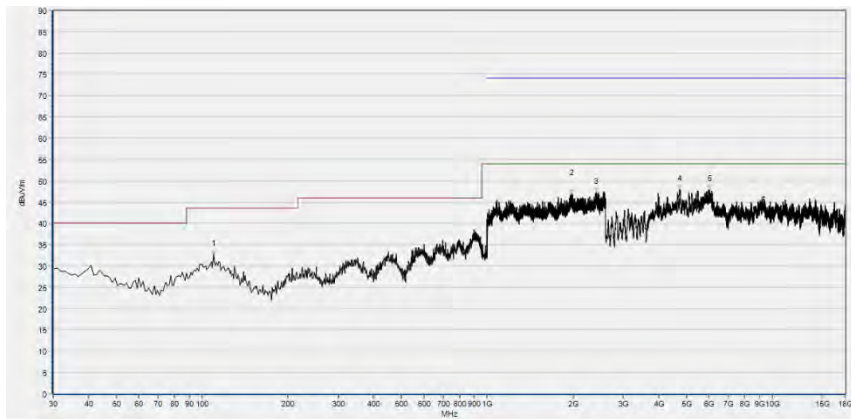
$\pi/4$ -DQPSK Mode

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	31.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1372.800	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1984.000	47.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9372.920	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12366.680	45.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

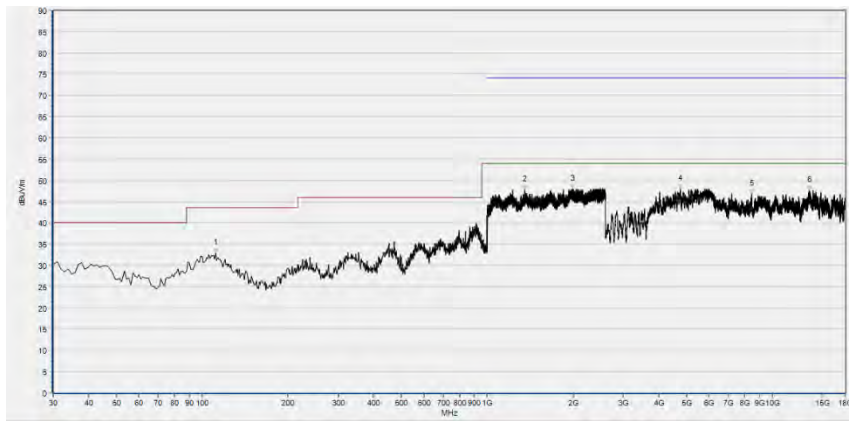
(Antenna Horizontal, 30MHz to 18GHz)



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	32.75	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1980.267	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2411.200	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	47.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6021.880	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9277.440	45.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

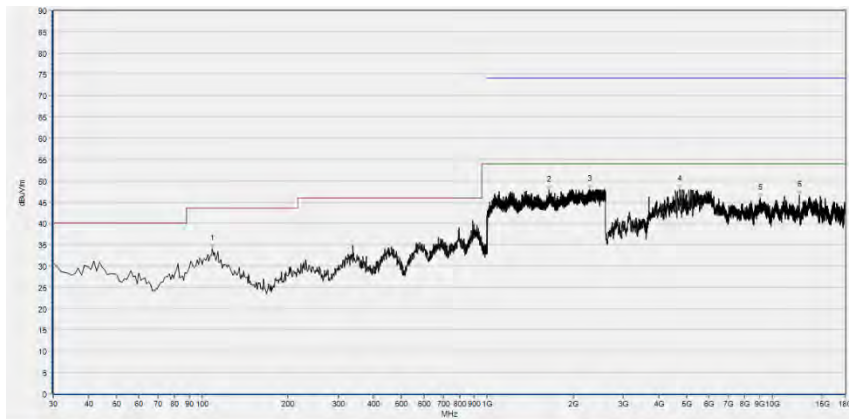
(Antenna Vertical, 30MHz to 18GHz)

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
111.480	32.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1354.667	47.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1992.000	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4752.920	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8439.680	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

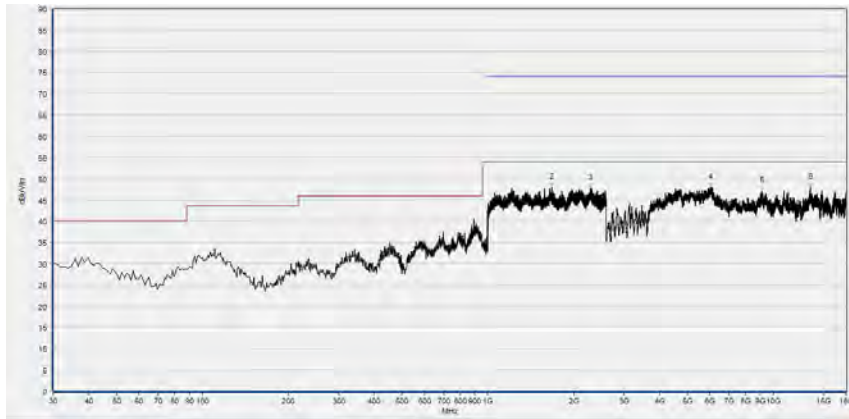
(Antenna Horizontal, 30MHz to 18GHz)



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
108.570	34.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1644.800	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2285.867	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	47.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9068.000	45.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12412.880	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

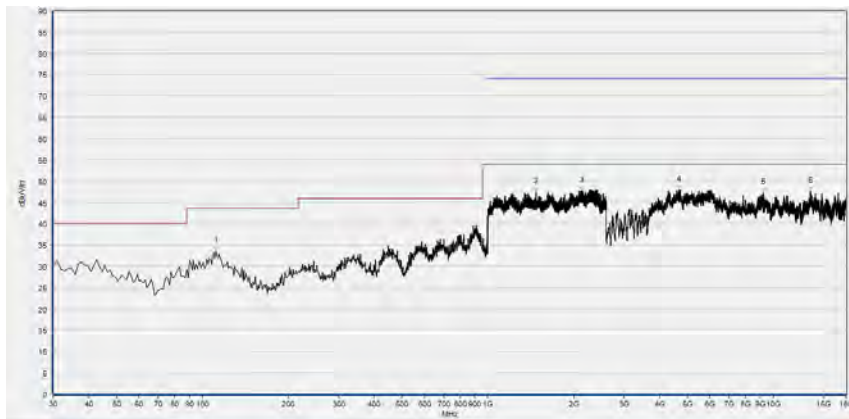
(Antenna Vertical, 30MHz to 18GHz)

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	32.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1672.000	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2293.333	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6015.720	47.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9120.360	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13484.720	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



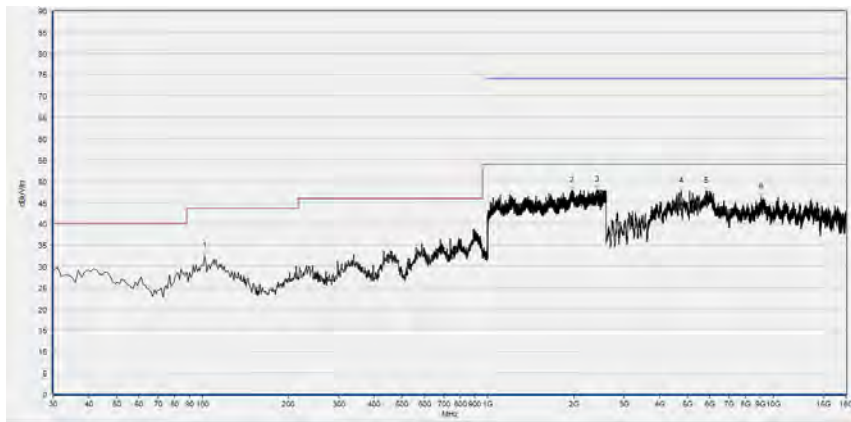
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
111.480	33.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1475.200	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2132.800	47.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4672.840	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9215.840	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13484.720	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



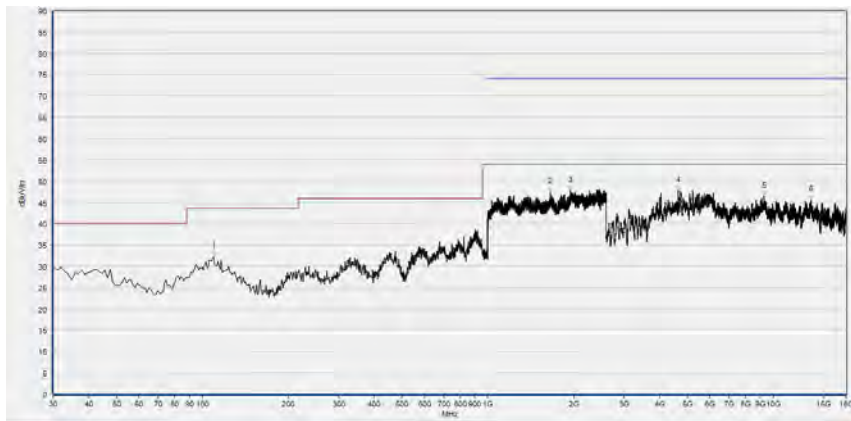
8-DPSK Mode

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	32.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1965.333	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2413.333	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4746.760	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	47.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9077.240	46.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

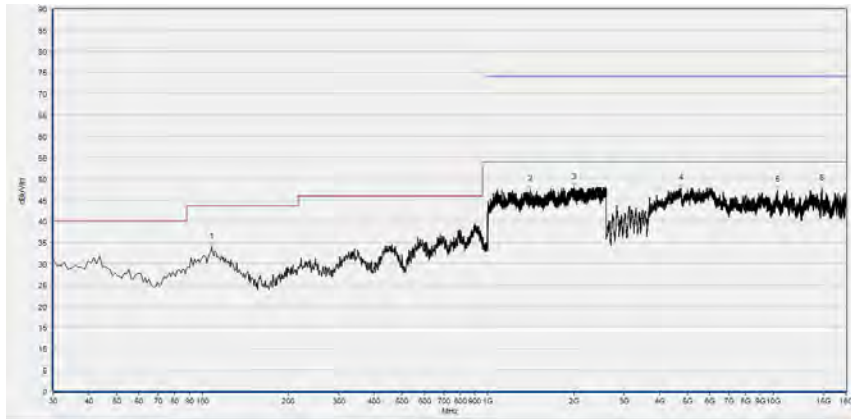
(Antenna Horizontal, 30MHz to 18GHz)



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	32.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1657.600	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1951.467	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4654.360	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9280.520	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13577.120	45.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

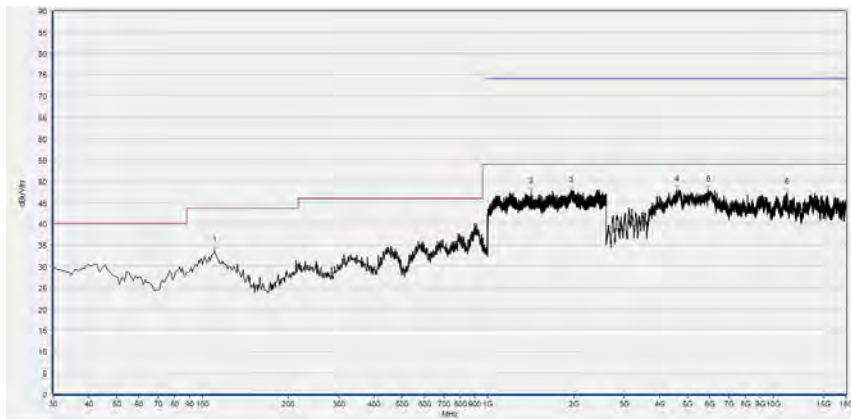
(Antenna Vertical, 30MHz to 18GHz)

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	33.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1412.267	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2007.467	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10324.640	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14818.360	47.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

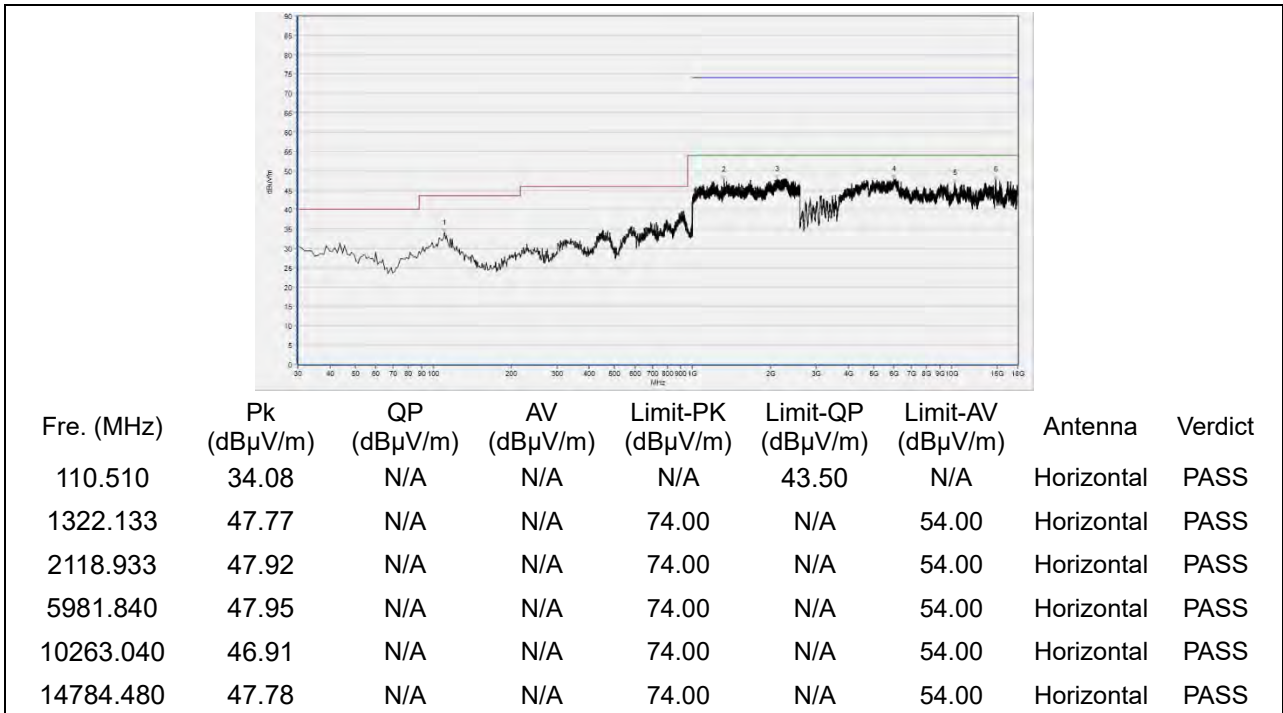
(Antenna Horizontal, 30MHz to 18GHz)



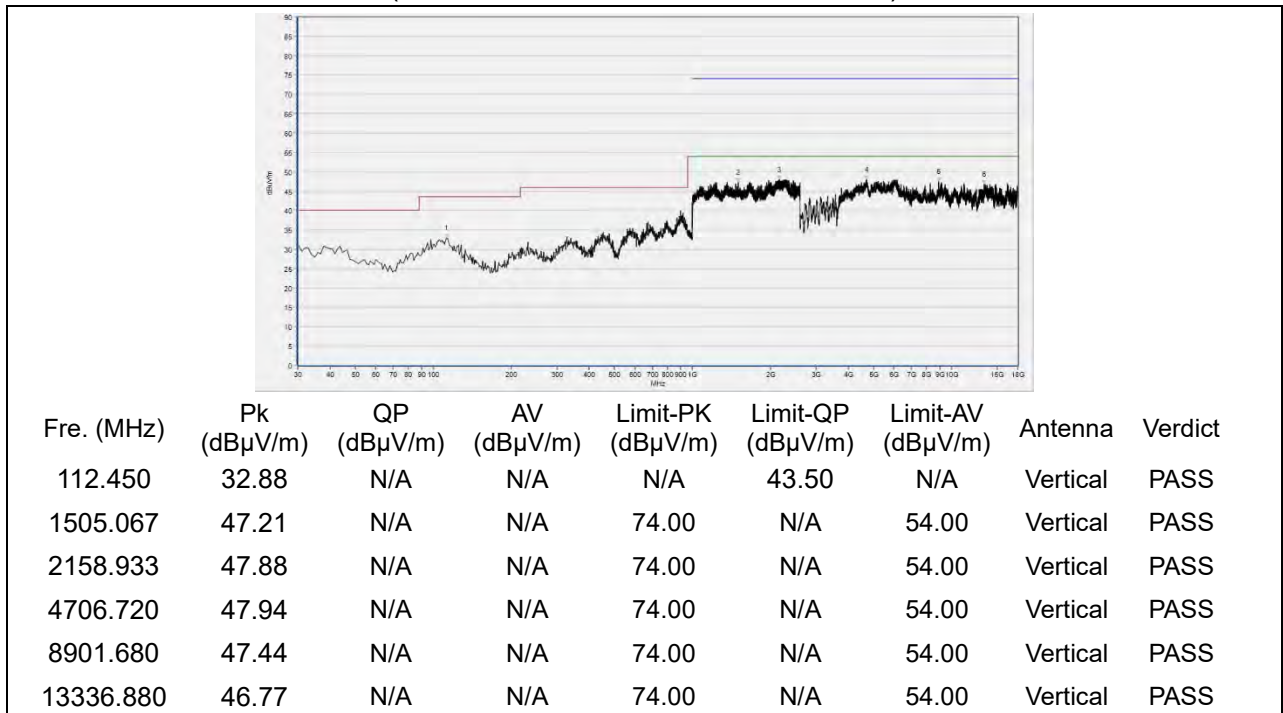
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	33.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1420.800	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1954.667	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4586.600	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5901.760	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11150.080	47.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————