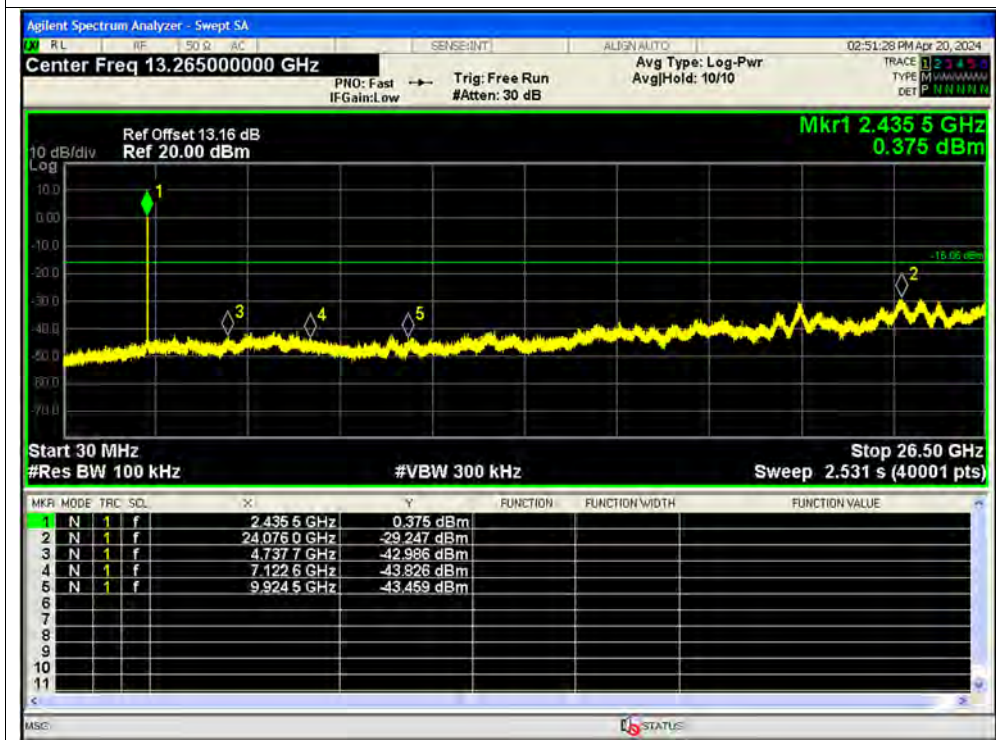




Tx. Spurious NVNT g 2437MHz Ant1 Ref SISO



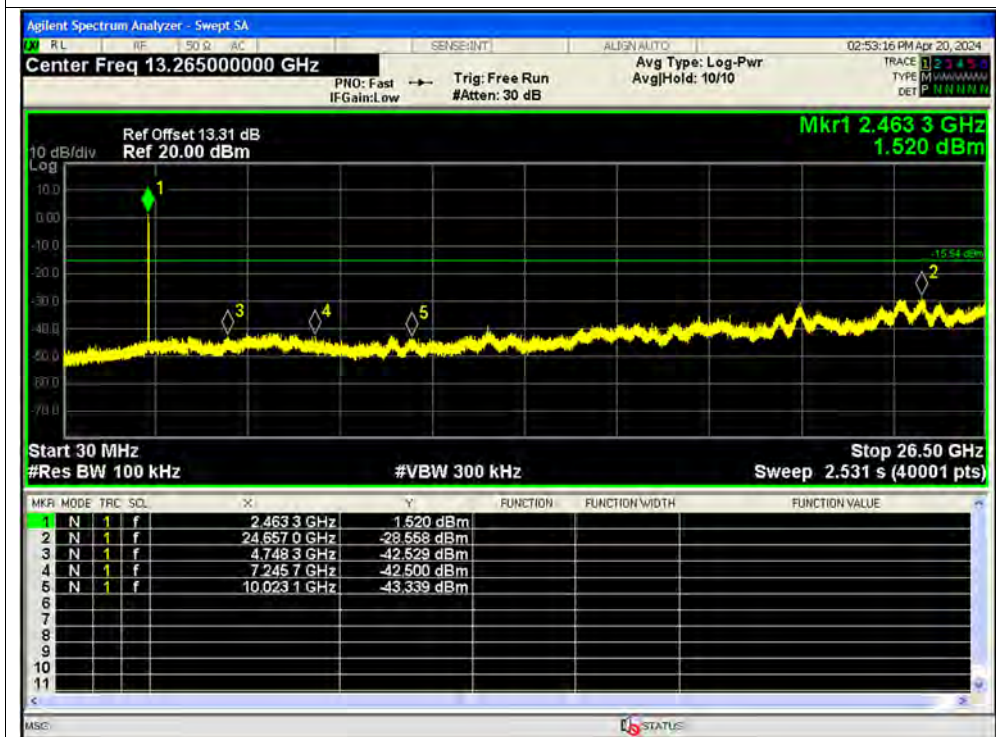
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Tx. Spurious NVNT g 2462MHz Ant1 Ref SISO



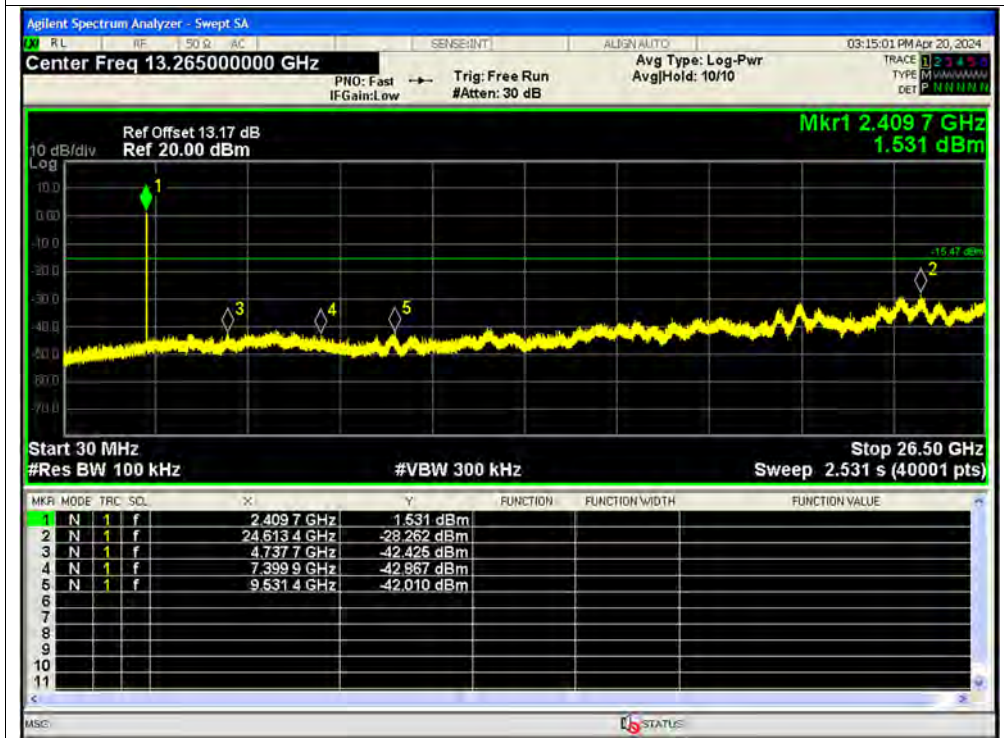
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Tx. Spurious NVNT g 2412MHz Ant2 Ref SISO



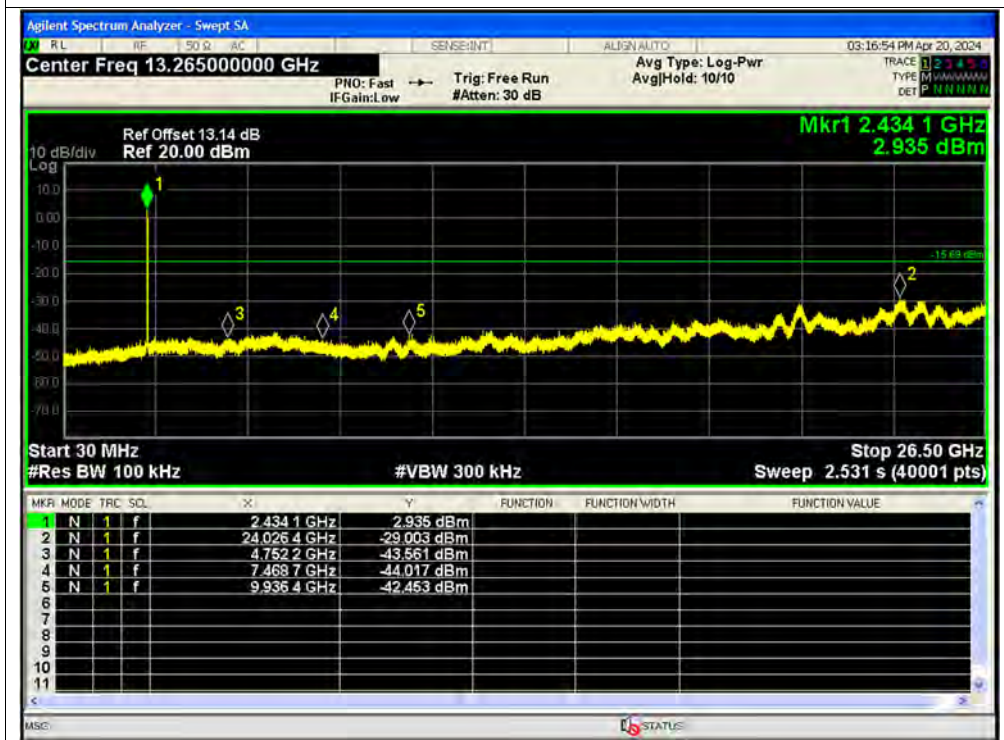
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Tx. Spurious NVNT g 2437MHz Ant2 Ref SISO



Tx. Spurious NVNT g 2437MHz Ant2 Emission SISO

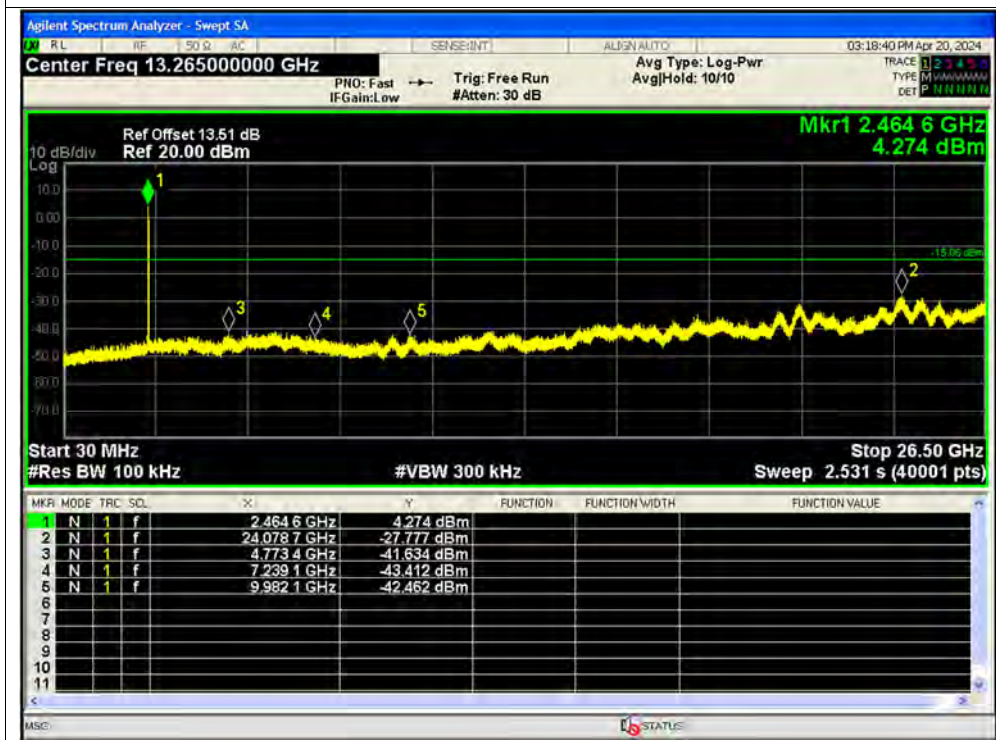




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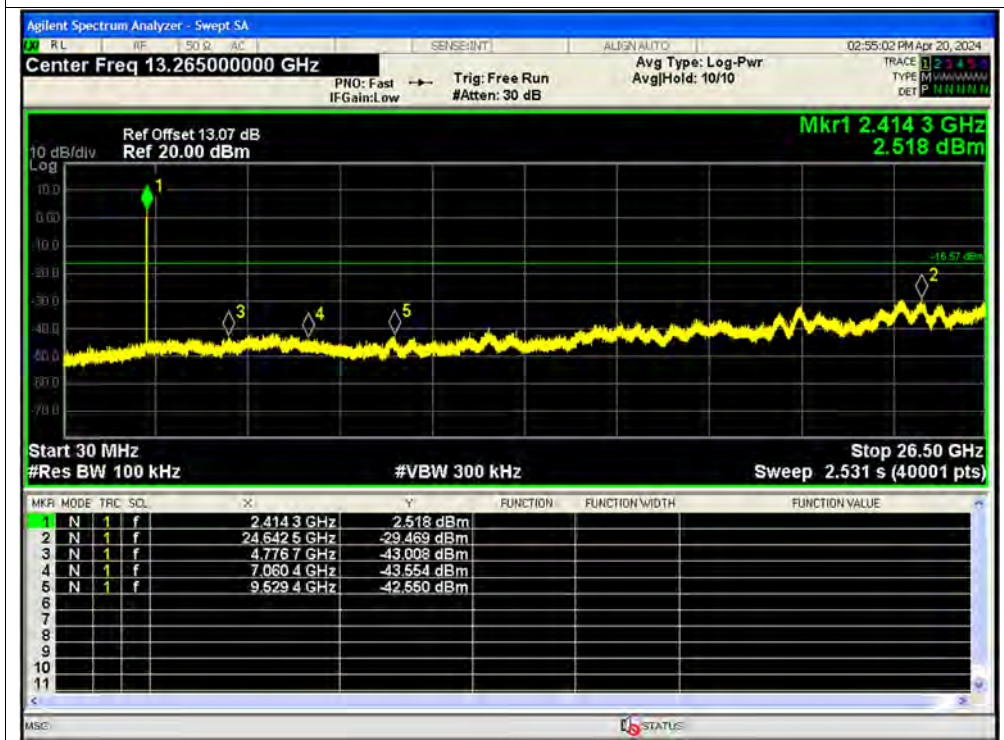
Tx. Spurious NVNT g 2462MHz Ant2 Emission SISO



Tx. Spurious NVNT n20 2412MHz Ant1 Ref SISO



Tx. Spurious NVNT n20 2412MHz Ant1 Emission SISO

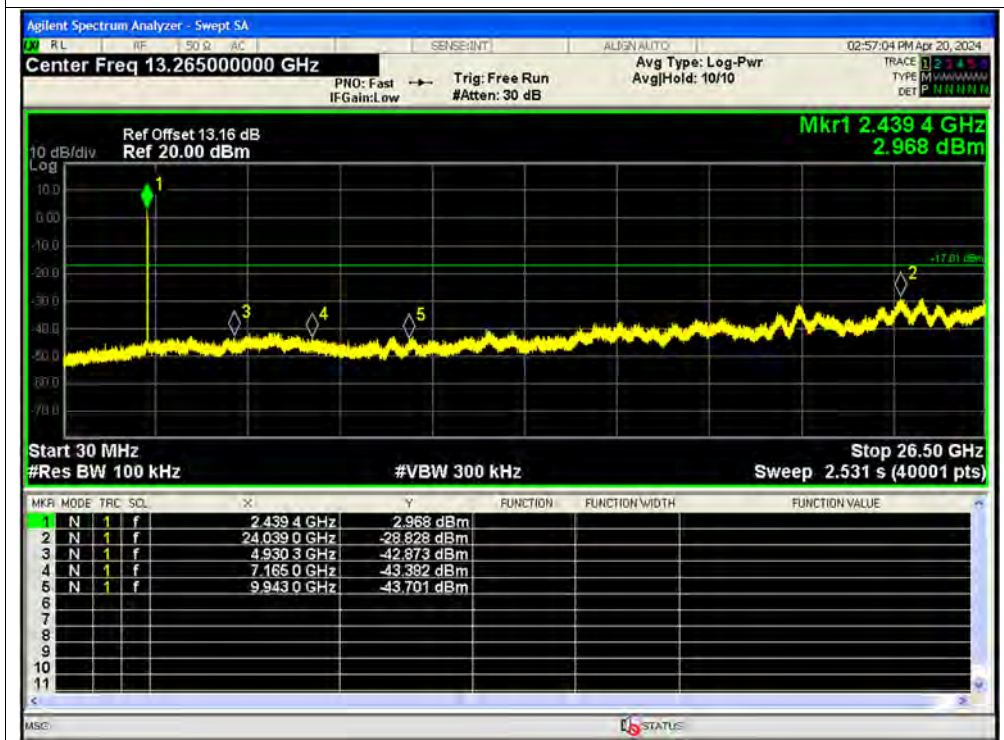




Tx. Spurious NVNT n20 2437MHz Ant1 Ref SISO



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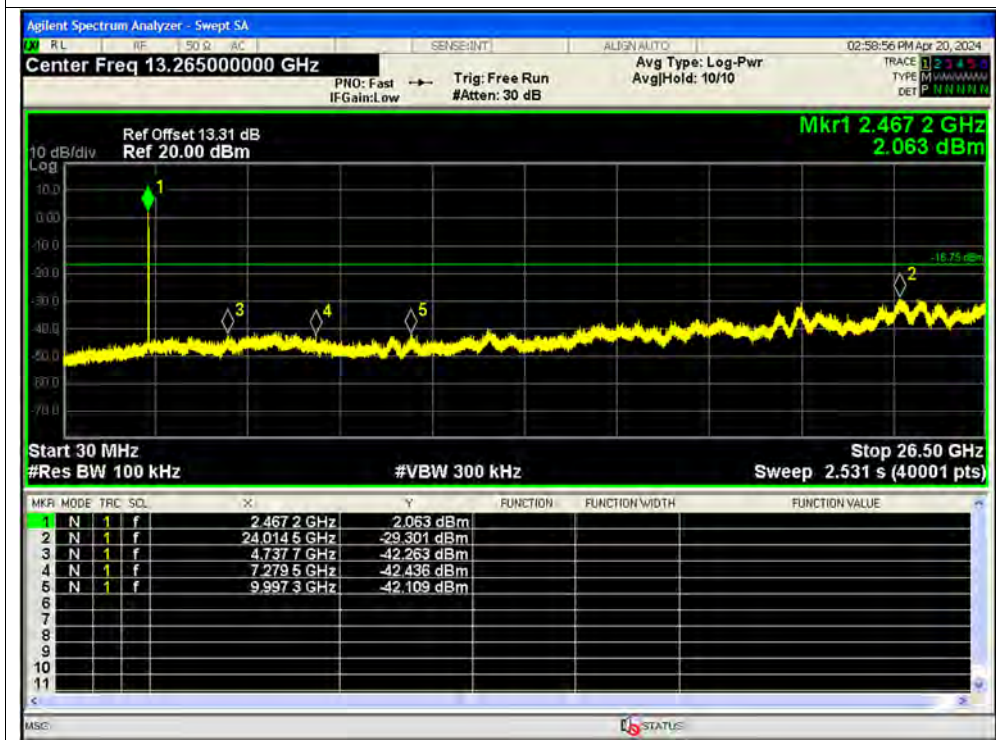




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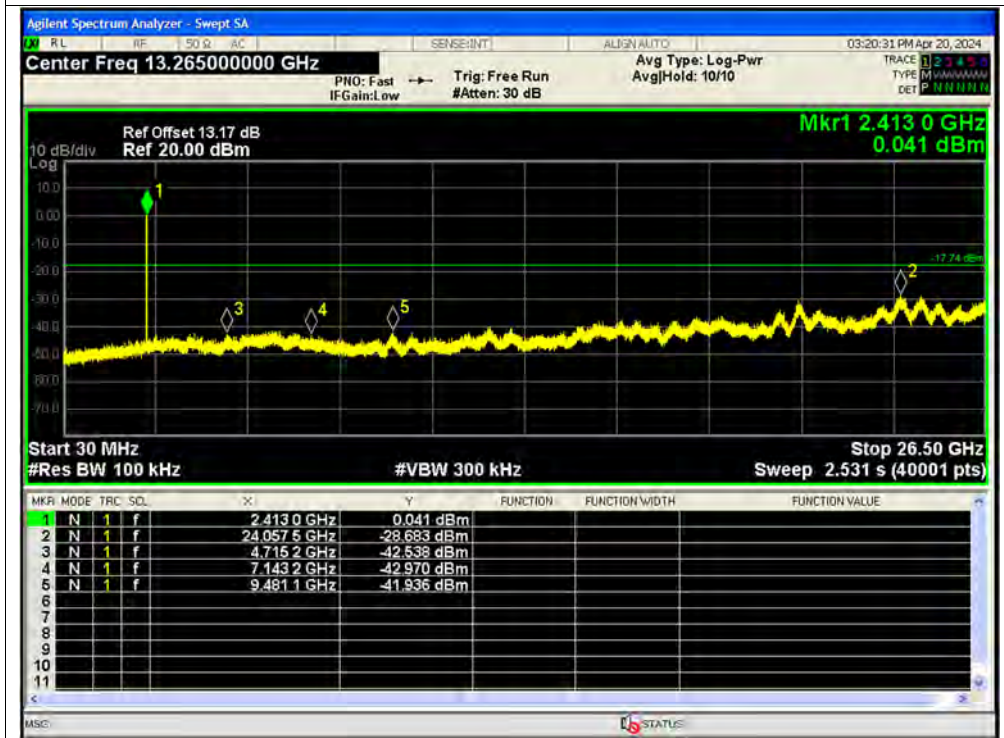




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Tx. Spurious NVNT n20 2412MHz Ant2 Emission SISO

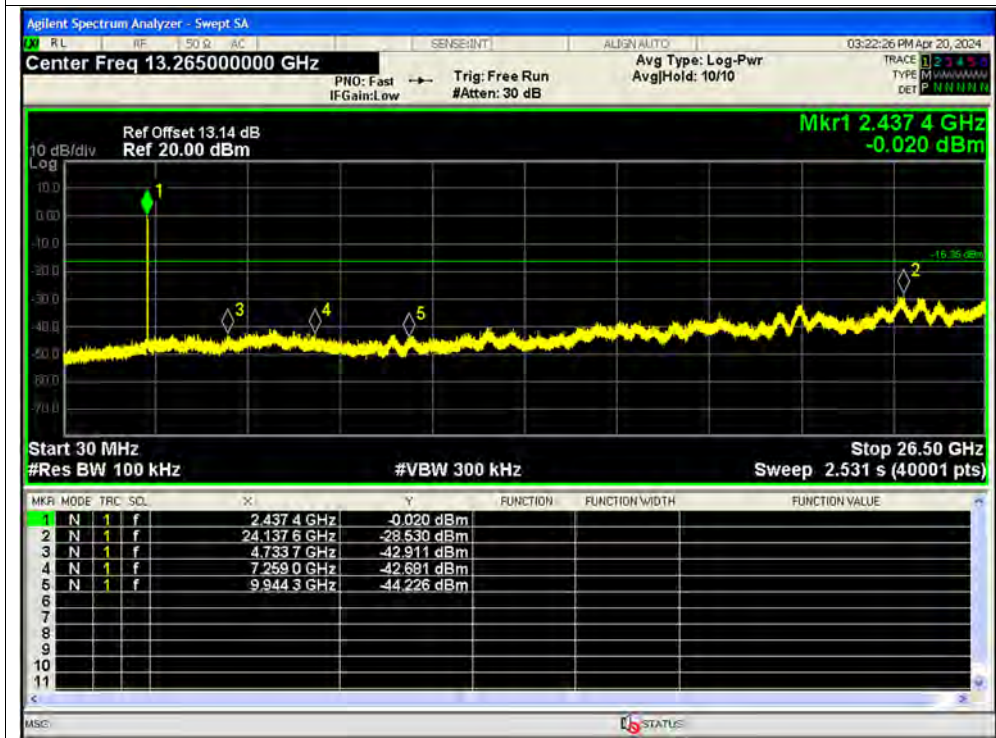




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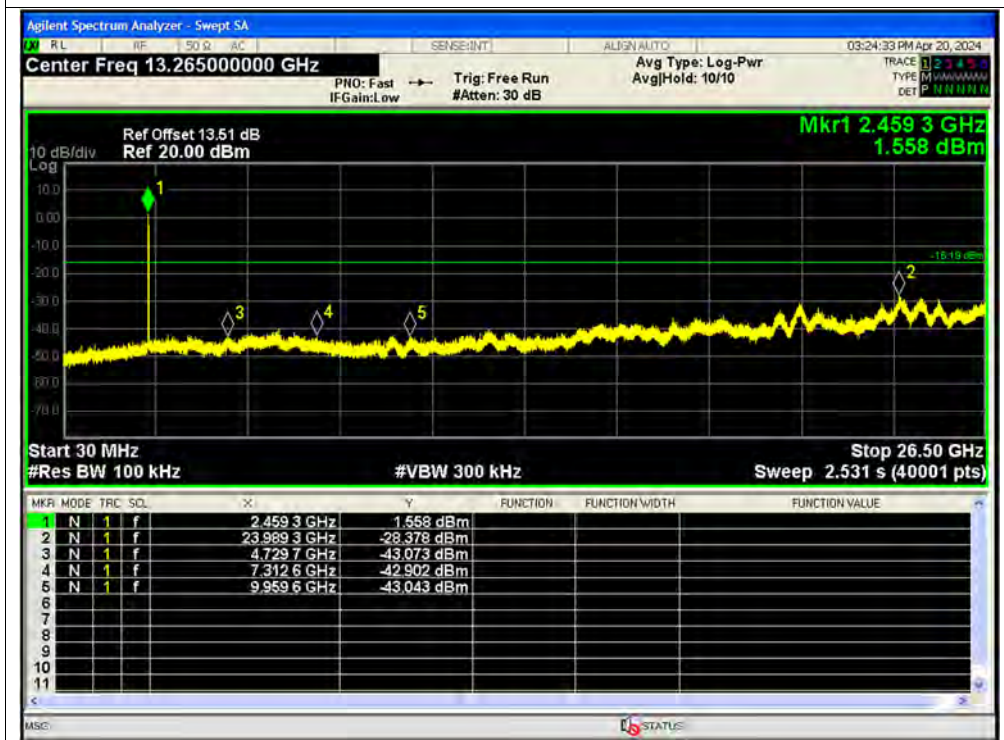




Tx. Spurious NVNT n20 2462MHz Ant2 Ref SISO



Tx. Spurious NVNT n20 2462MHz Ant2 Emission SISO

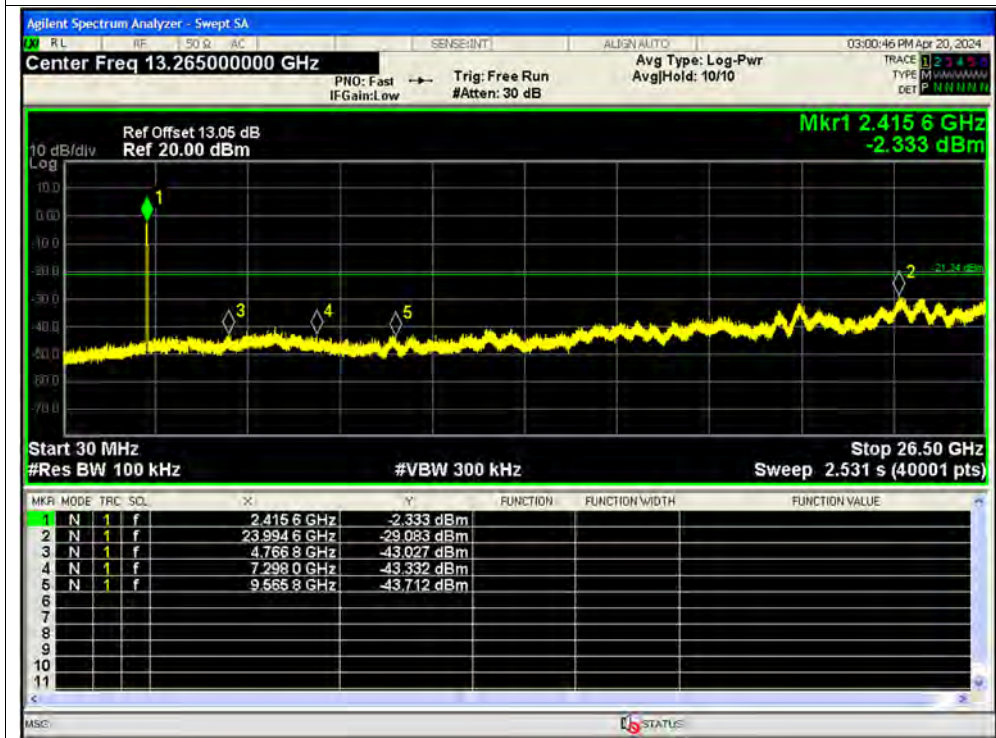




Tx. Spurious NVNT n40 2422MHz Ant1 Ref SISO



Tx. Spurious NVNT n40 2422MHz Ant1 Emission SISO

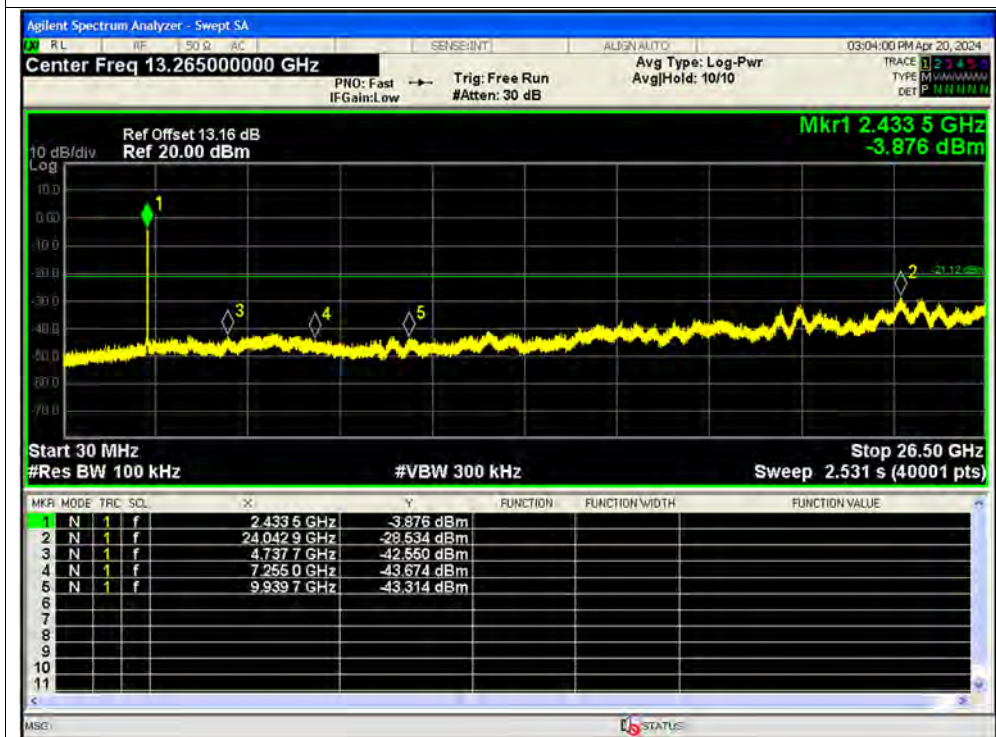




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Tx. Spurious NVNT n40 2437MHz Ant1 Emission SISO

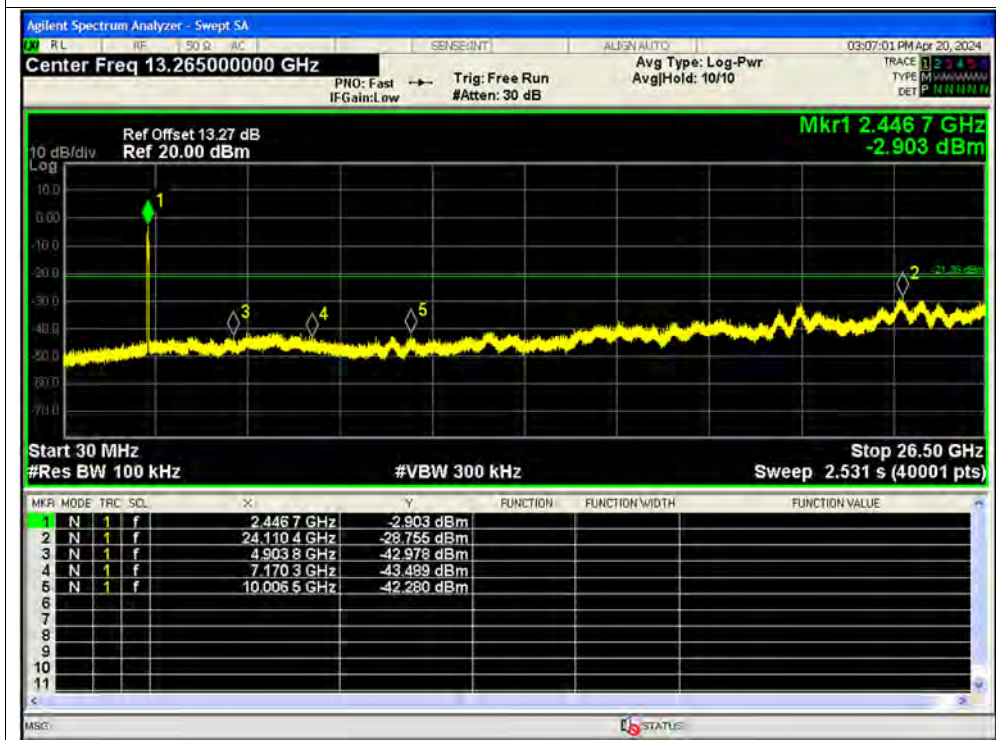




Tx. Spurious NVNT n40 2452MHz Ant1 Ref SISO



Tx. Spurious NVNT n40 2452MHz Ant1 Emission SISO

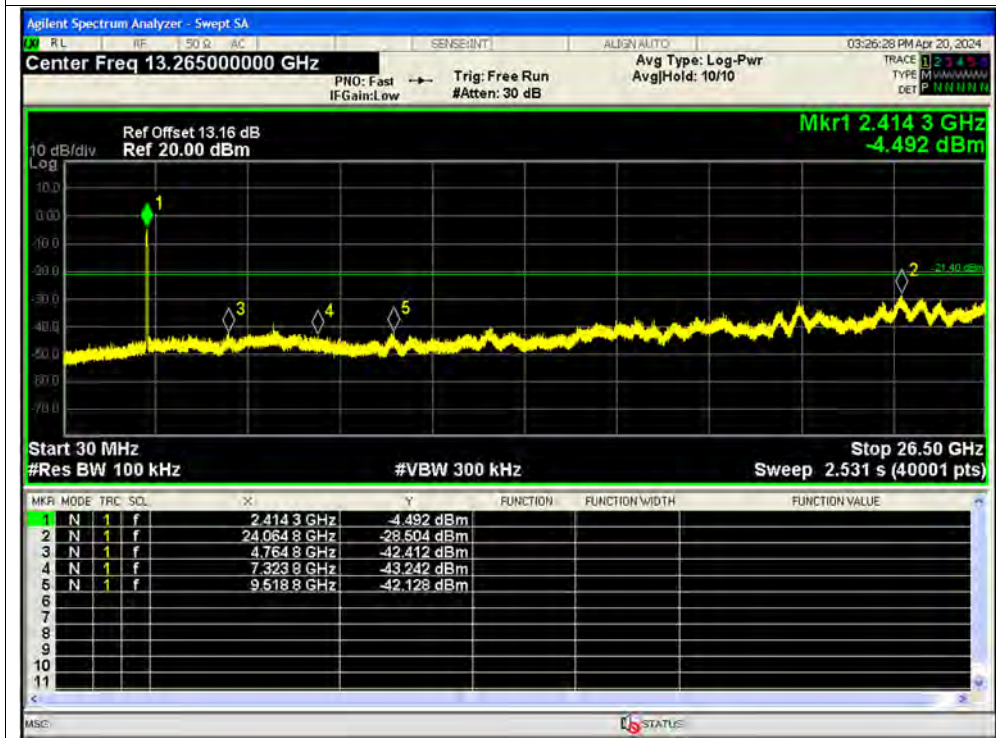




Tx. Spurious NVNT n40 2422MHz Ant2 Ref SISO



Tx. Spurious NVNT n40 2422MHz Ant2 Emission SISO

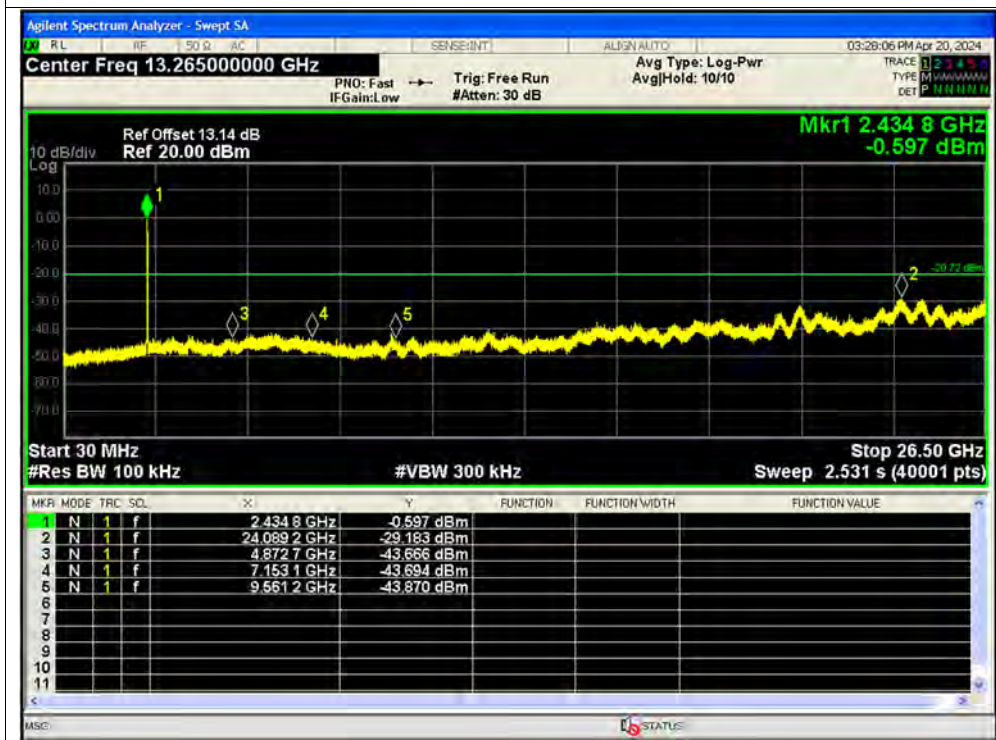




Tx. Spurious NVNT n40 2437MHz Ant2 Ref SISO



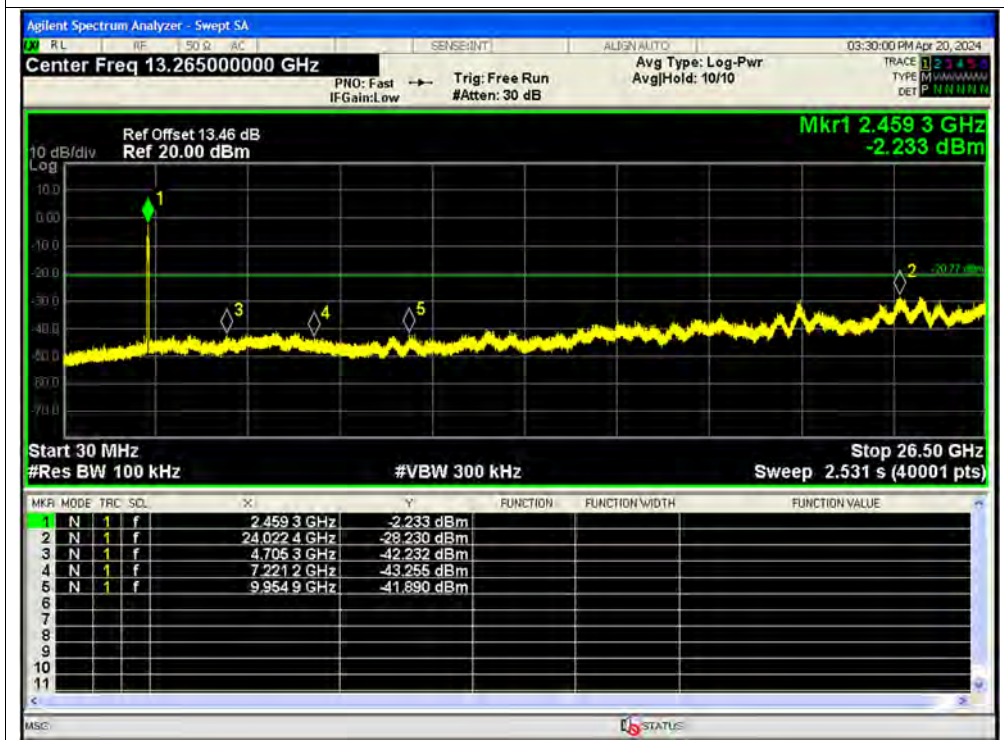
Tx. Spurious NVNT n40 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT n40 2452MHz Ant2 Ref SISO



Tx. Spurious NVNT n40 2452MHz Ant2 Emission SISO



**A.6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b SISO	2412	Ant1	-46.02	-20	Pass
NVNT	b SISO	2462	Ant1	-52.8	-20	Pass
NVNT	b SISO	2412	Ant2	-45.39	-20	Pass
NVNT	b SISO	2462	Ant2	-52.21	-20	Pass
NVNT	g SISO	2412	Ant1	-42.86	-20	Pass
NVNT	g SISO	2462	Ant1	-50.07	-20	Pass
NVNT	g SISO	2412	Ant2	-44.2	-20	Pass
NVNT	g SISO	2462	Ant2	-49.78	-20	Pass
NVNT	n20 SISO	2412	Ant1	-44.28	-20	Pass
NVNT	n20 SISO	2462	Ant1	-48.56	-20	Pass
NVNT	n20 SISO	2412	Ant2	-44.15	-20	Pass
NVNT	n20 SISO	2462	Ant2	-49.08	-20	Pass
NVNT	n20 MIMO	2412	Ant1	-43.83	-20	Pass
NVNT	n20 MIMO	2412	Ant2	-43.34	-20	Pass
NVNT	n20 MIMO	2462	Ant1	-47.22	-20	Pass
NVNT	n20 MIMO	2462	Ant2	-49.48	-20	Pass
NVNT	n40 SISO	2422	Ant1	-38.15	-20	Pass
NVNT	n40 SISO	2452	Ant1	-44.91	-20	Pass
NVNT	n40 SISO	2422	Ant2	-36.69	-20	Pass
NVNT	n40 SISO	2452	Ant2	-44.07	-20	Pass
NVNT	n40 MIMO	2422	Ant1	-37.61	-20	Pass
NVNT	n40 MIMO	2422	Ant2	-36.06	-20	Pass
NVNT	n40 MIMO	2452	Ant1	-42.85	-20	Pass
NVNT	n40 MIMO	2452	Ant2	-43.7	-20	Pass

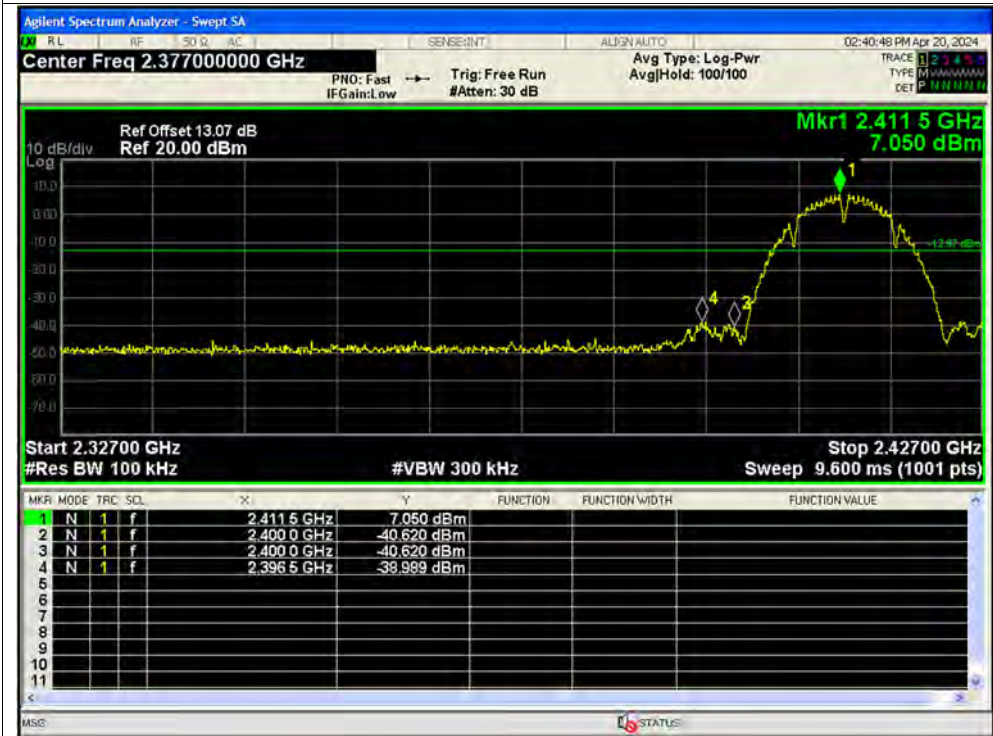


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref SISO



Band Edge NVNT b 2412MHz Ant1 Emission SISO





Band Edge NVNT b 2462MHz Ant1 Ref SISO



Band Edge NVNT b 2462MHz Ant1 Emission SISO

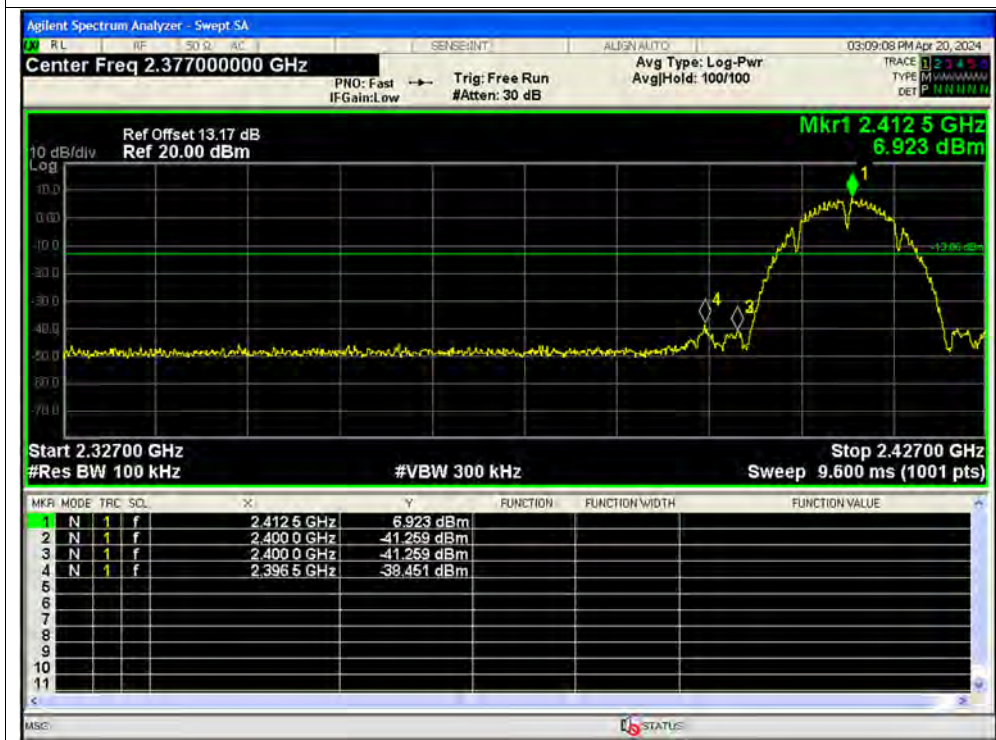




Band Edge NVNT b 2412MHz Ant2 Ref SISO



Band Edge NVNT b 2412MHz Ant2 Emission SISO

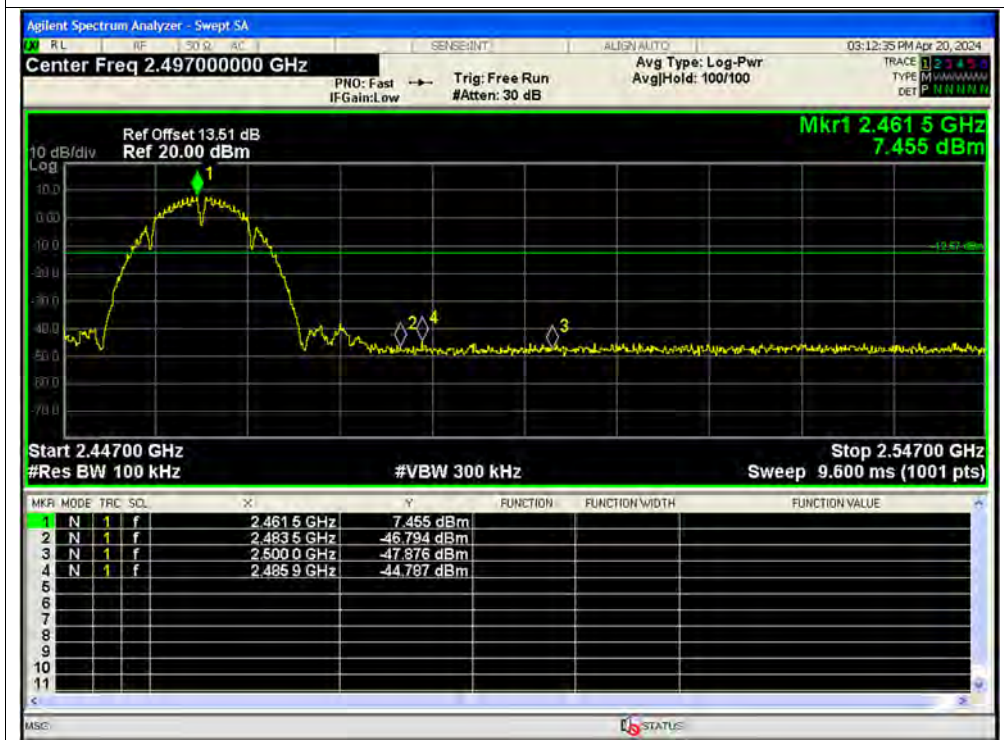




Band Edge NVNT b 2462MHz Ant2 Ref SISO



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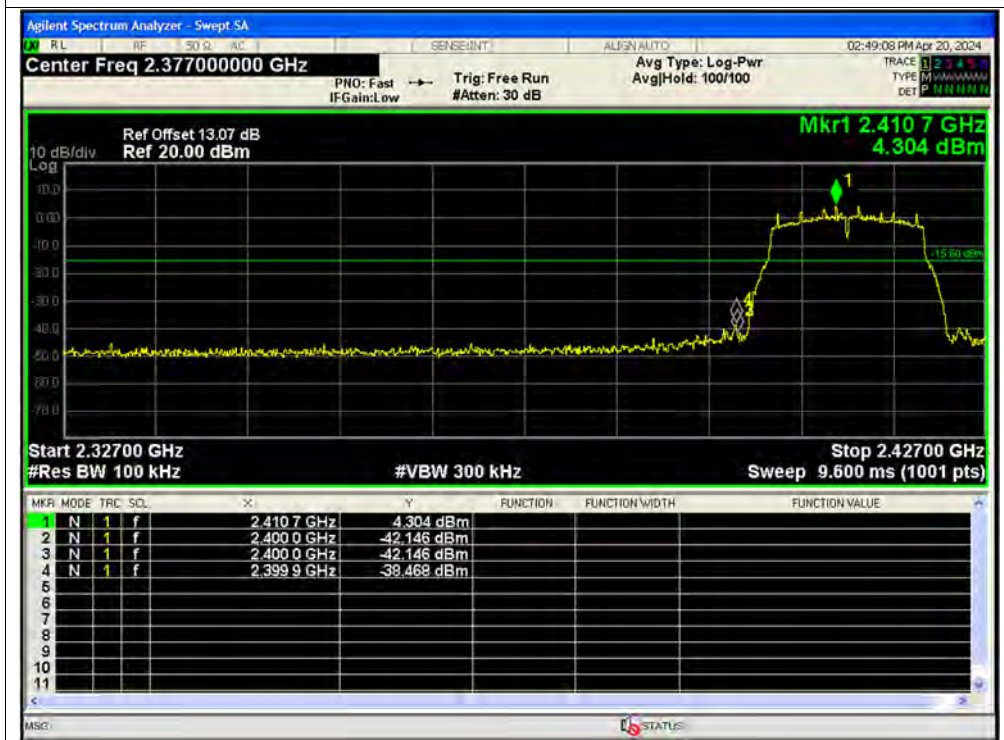




Band Edge NVNT g 2412MHz Ant1 Ref SISO



Band Edge NVNT g 2412MHz Ant1 Emission SISO

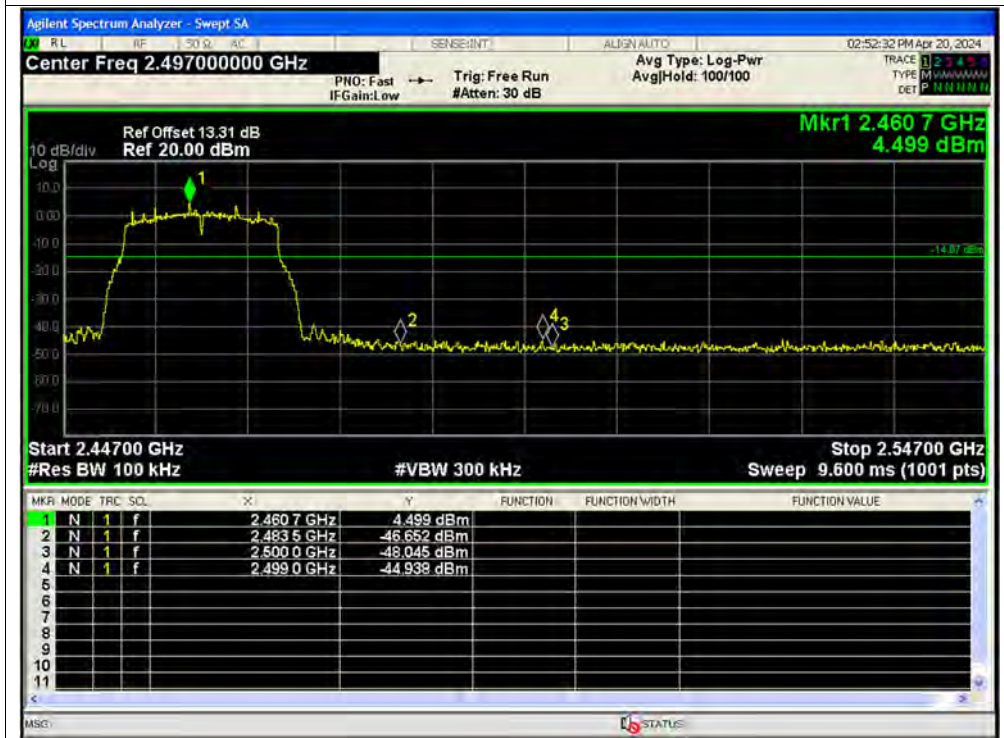




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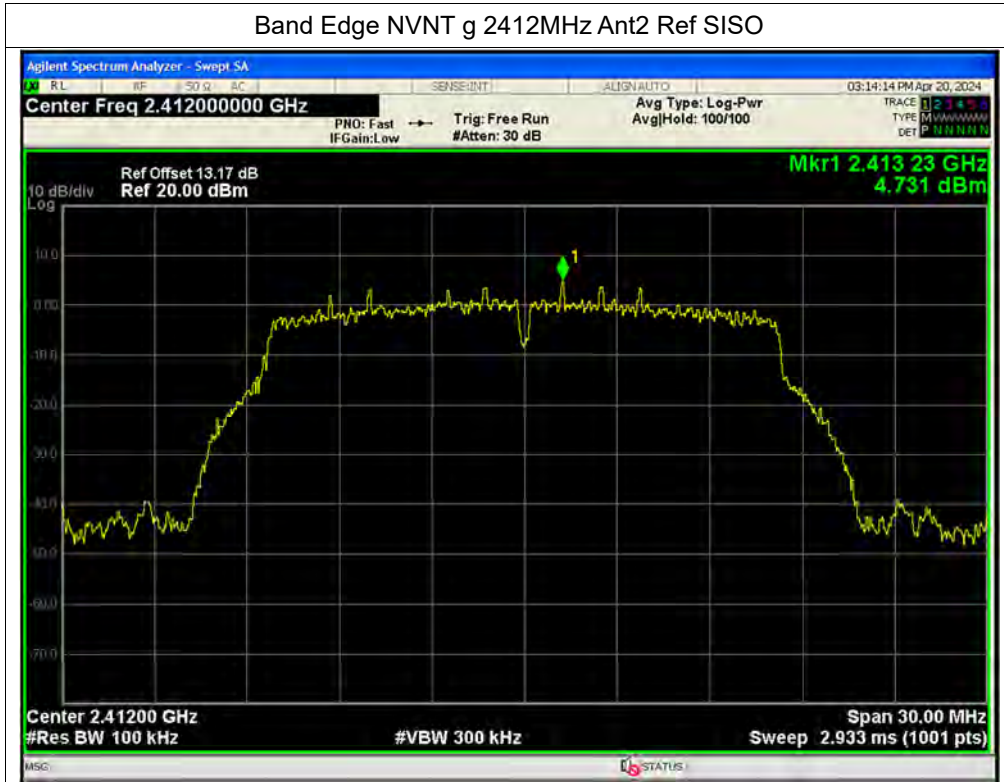


Band Edge NVNT g 2462MHz Ant1 Emission SISO

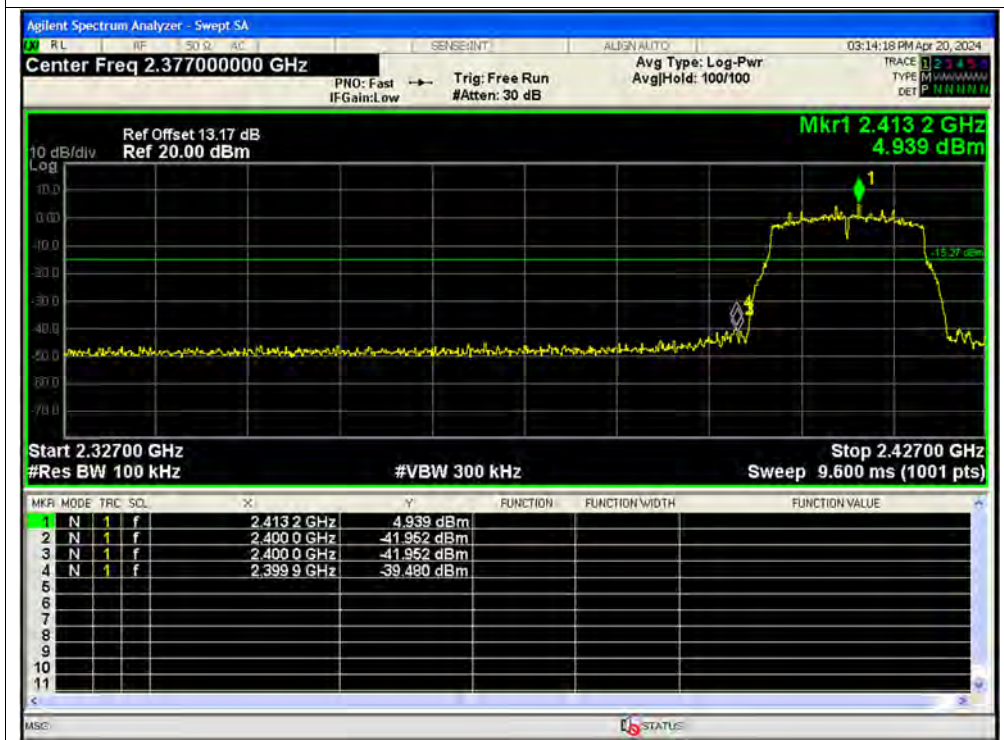




Band Edge NVNT g 2412MHz Ant2 Ref SISO



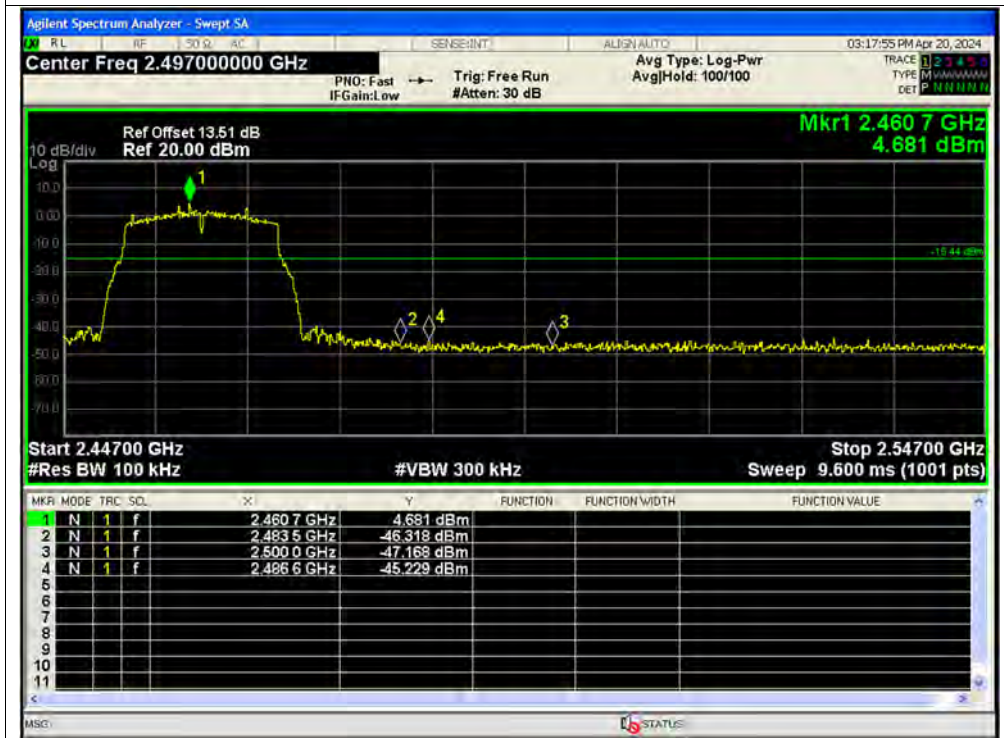
Band Edge NVNT g 2412MHz Ant2 Emission SISO



Band Edge NVNT g 2462MHz Ant2 Ref SISO



Band Edge NVNT g 2462MHz Ant2 Emission SISO

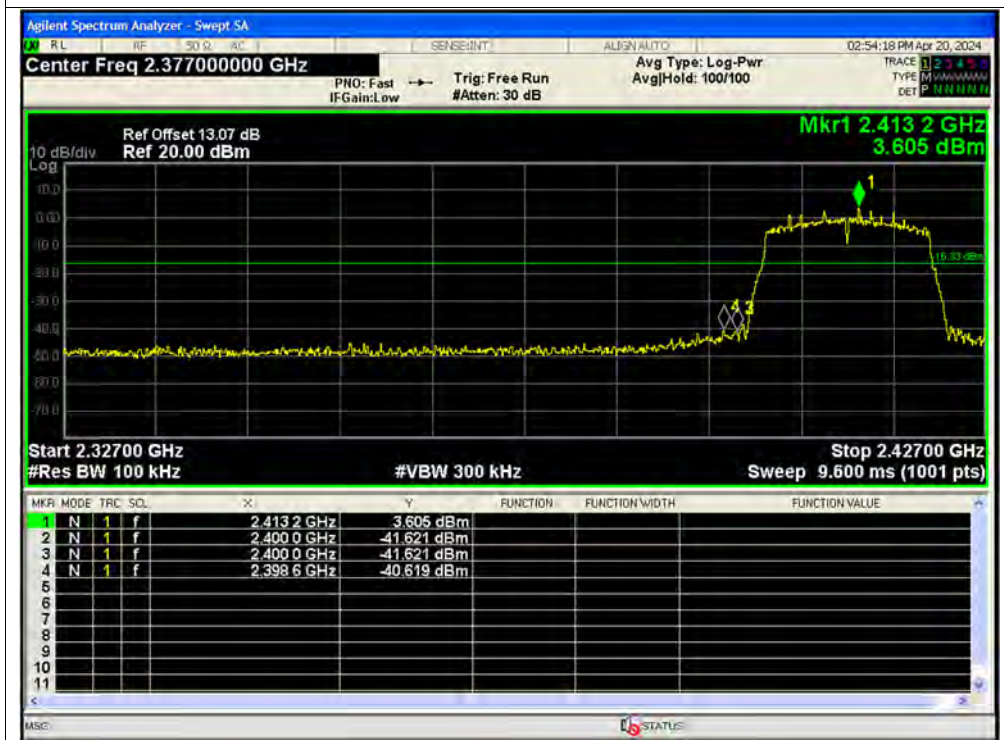




Band Edge NVNT n20 2412MHz Ant1 Ref SISO



Band Edge NVNT n20 2412MHz Ant1 Emission SISO

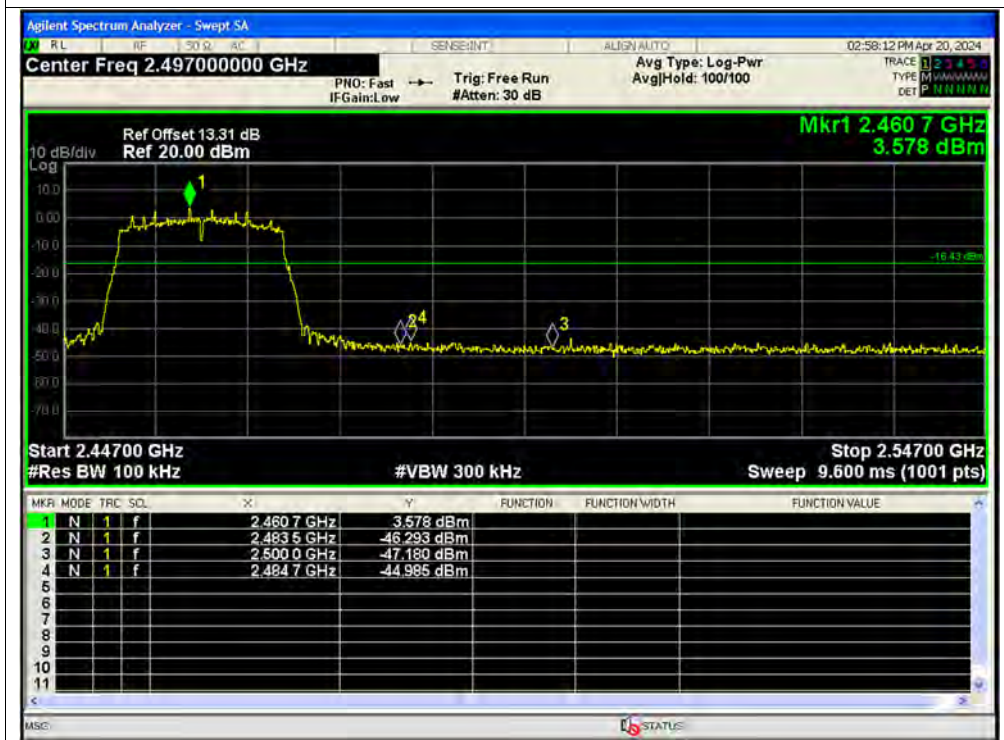




Band Edge NVNT n20 2462MHz Ant1 Ref SISO



Band Edge NVNT n20 2462MHz Ant1 Emission SISO

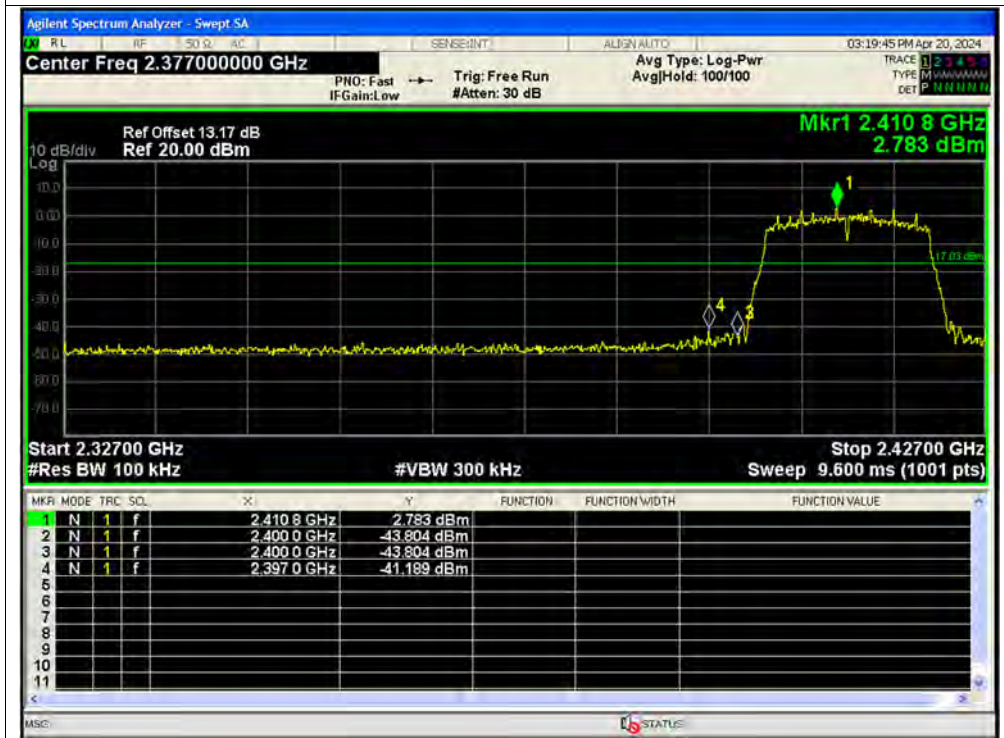




Band Edge NVNT n20 2412MHz Ant2 Ref SISO

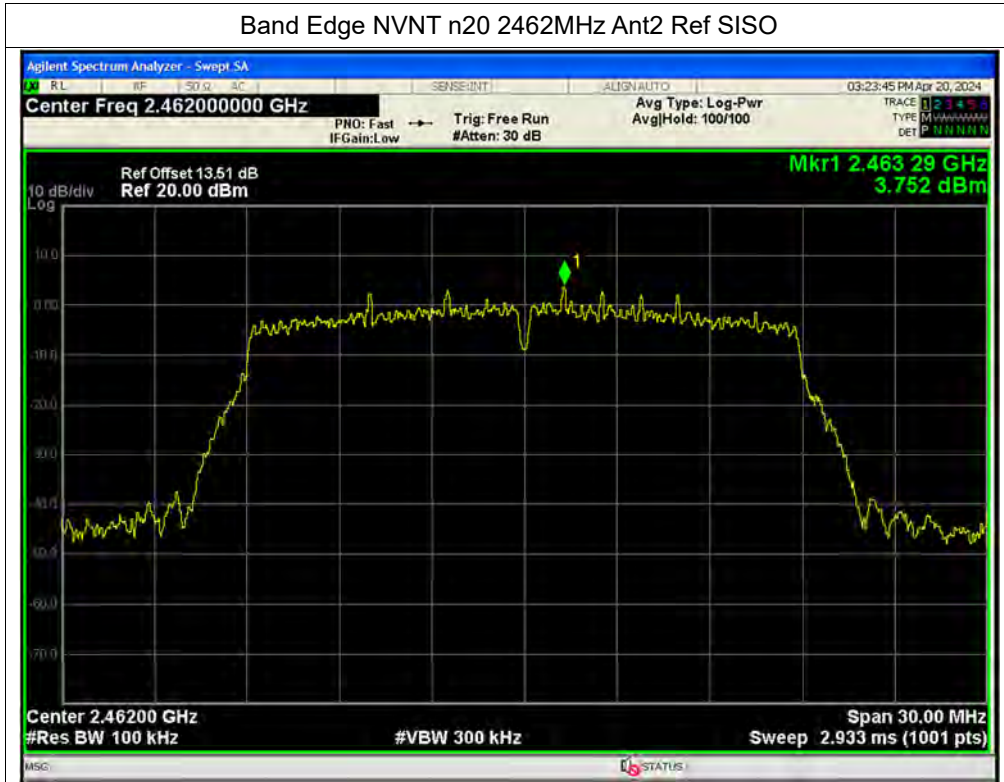


Band Edge NVNT n20 2412MHz Ant2 Emission SISO

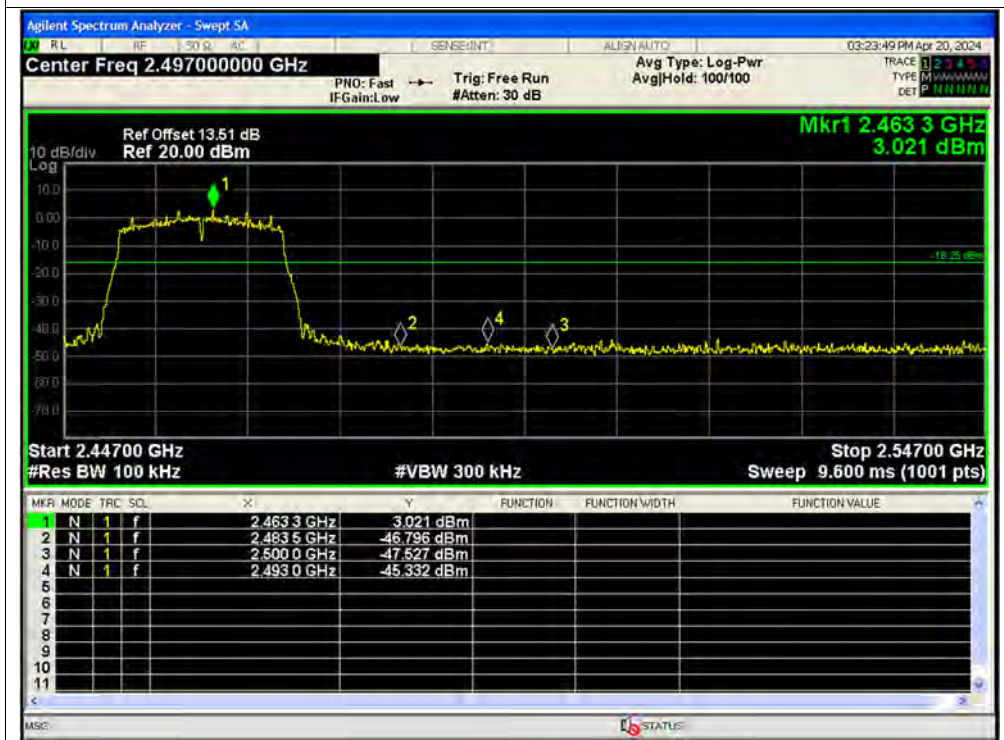




Band Edge NVNT n20 2462MHz Ant2 Ref SISO



Band Edge NVNT n20 2462MHz Ant2 Emission SISO

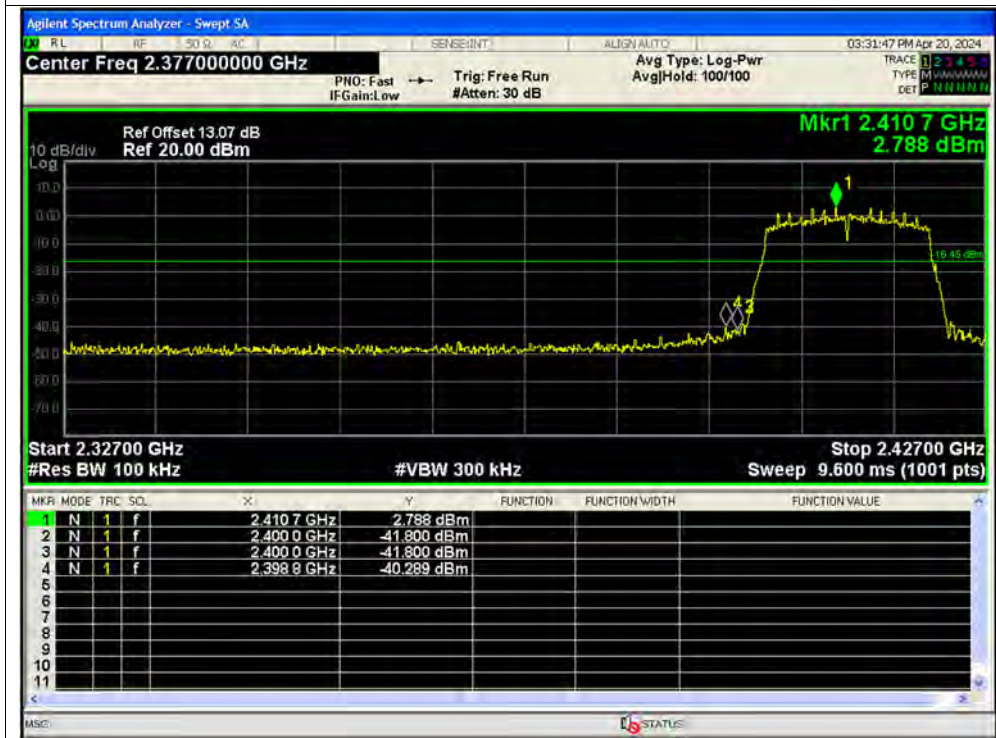




Band Edge NVNT n20 2412MHz Ant1 Ref MIMO



Band Edge NVNT n20 2412MHz Ant1 Emission MIMO

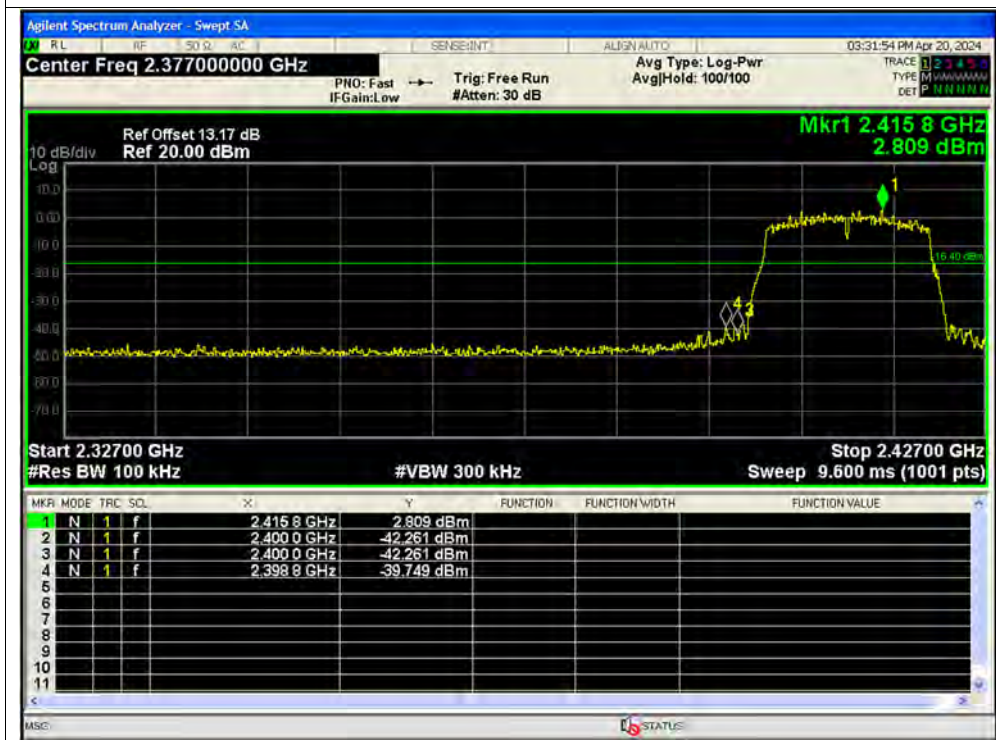




Band Edge NVNT n20 2412MHz Ant2 Ref MIMO



Band Edge NVNT n20 2412MHz Ant2 Emission MIMO

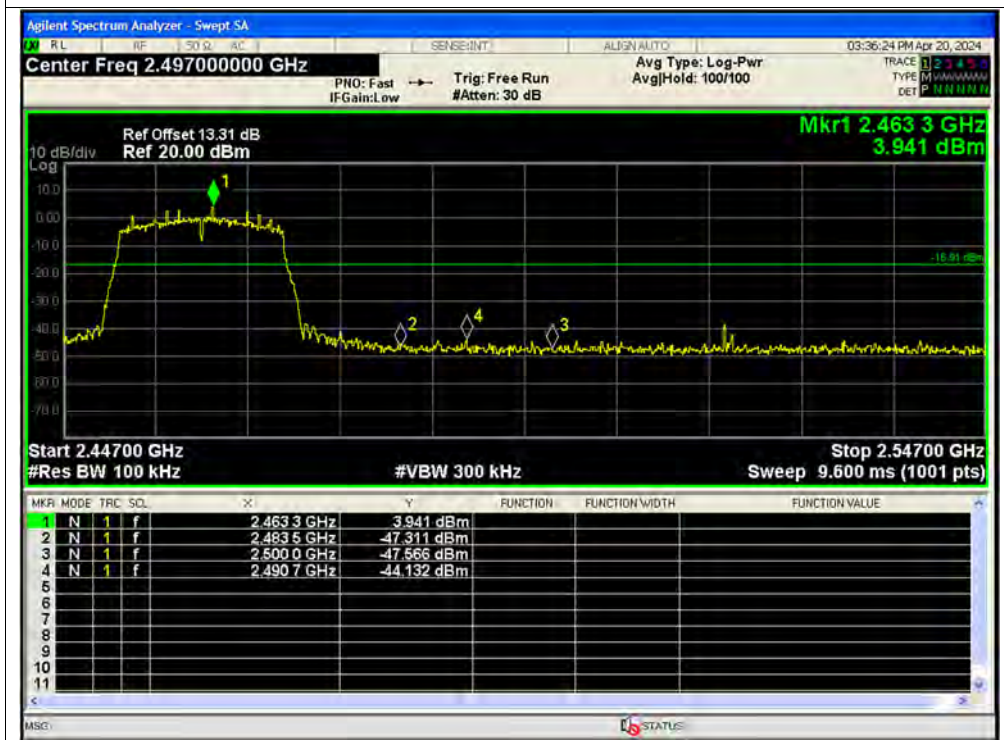




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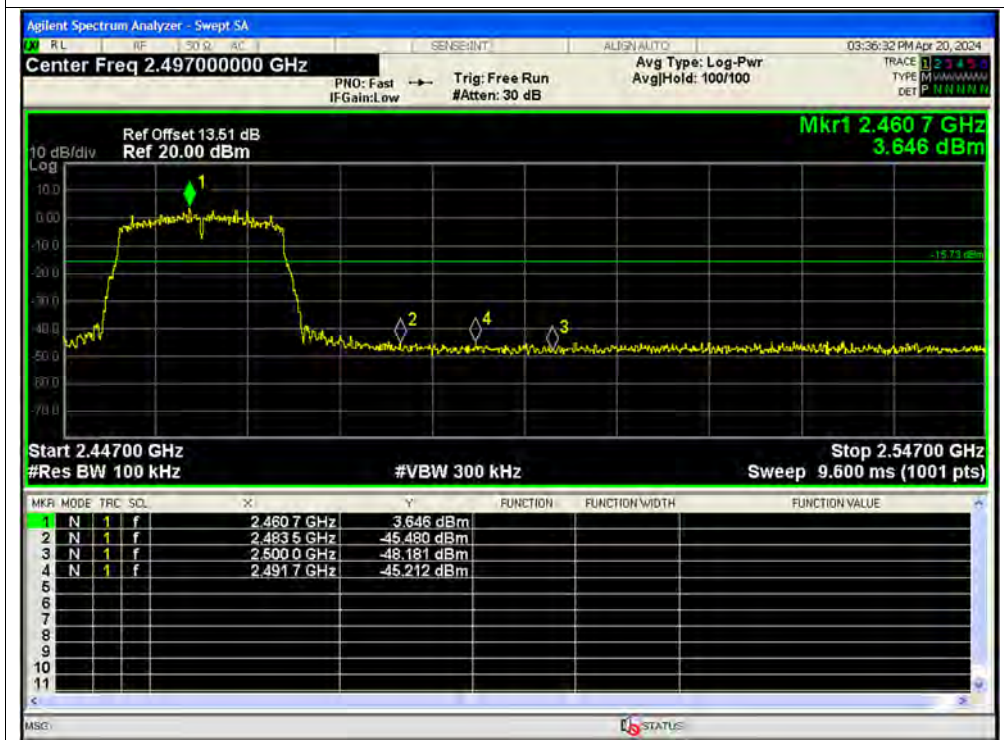




Band Edge NVNT n20 2462MHz Ant2 Ref MIMO



Band Edge NVNT n20 2462MHz Ant2 Emission MIMO

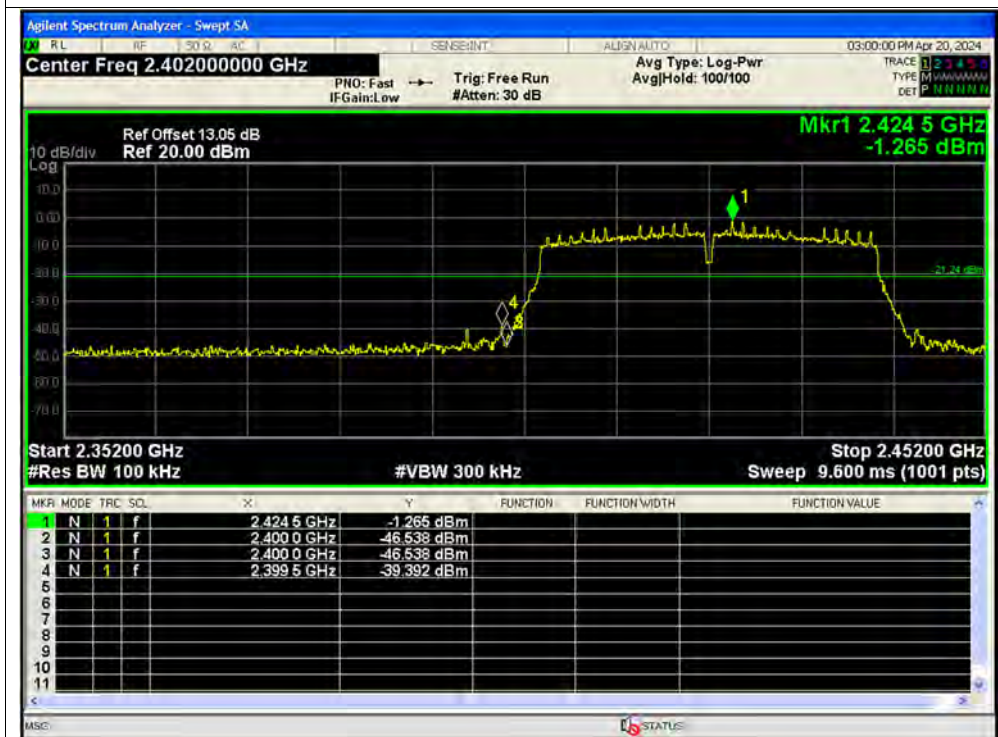




Band Edge NVNT n40 2422MHz Ant1 Ref SISO



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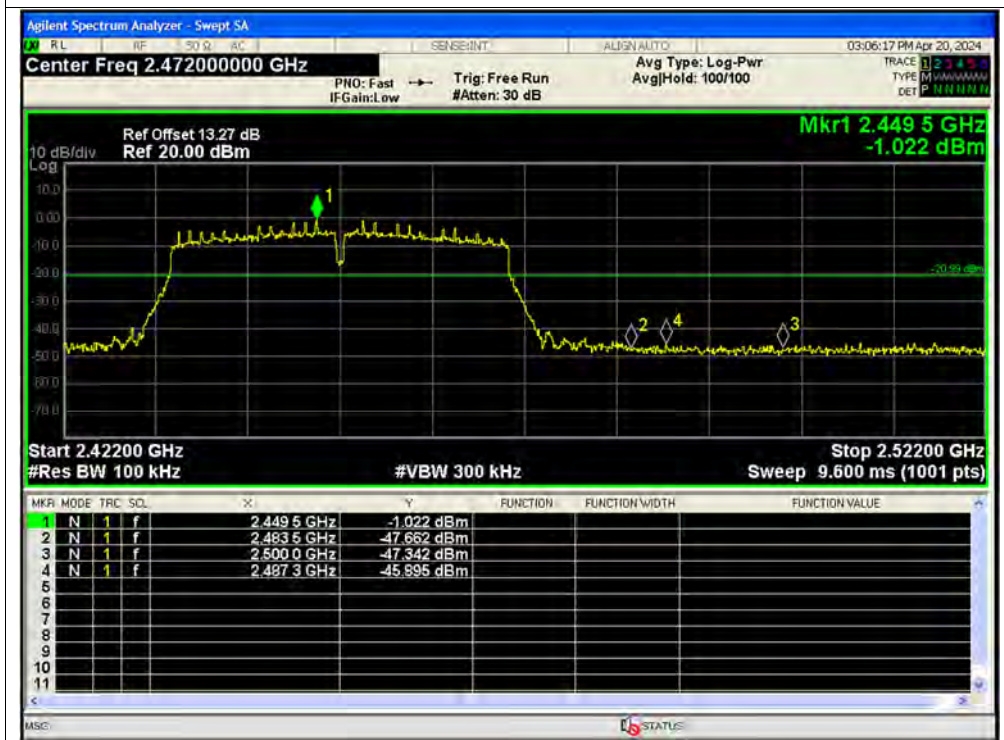




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Band Edge NVNT n40 2452MHz Ant1 Emission SISO

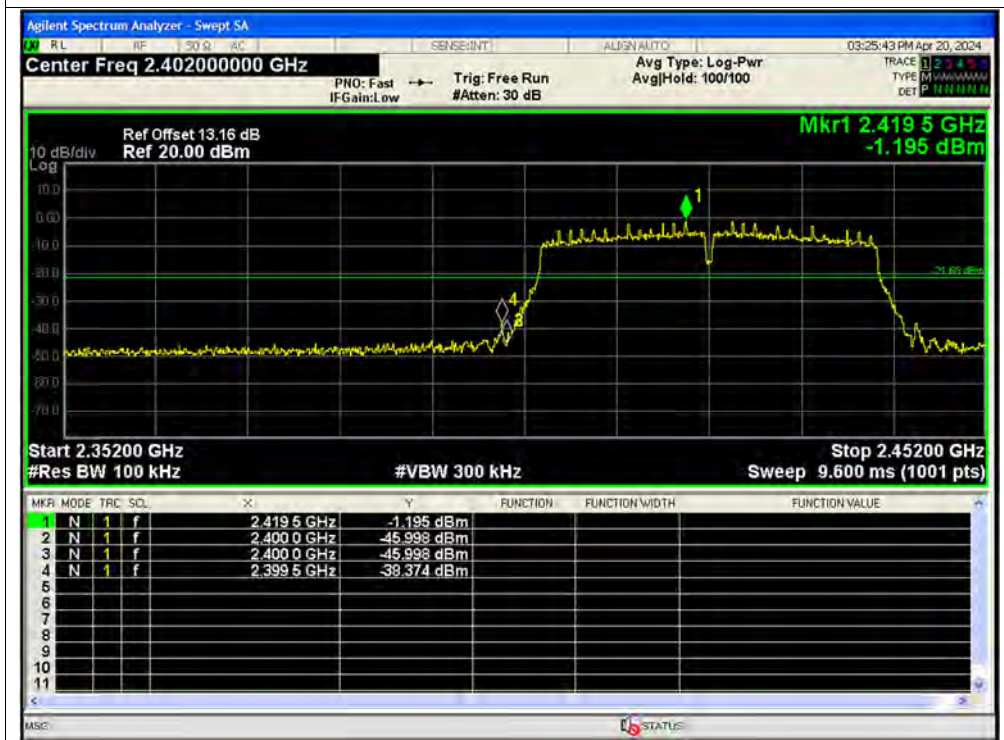




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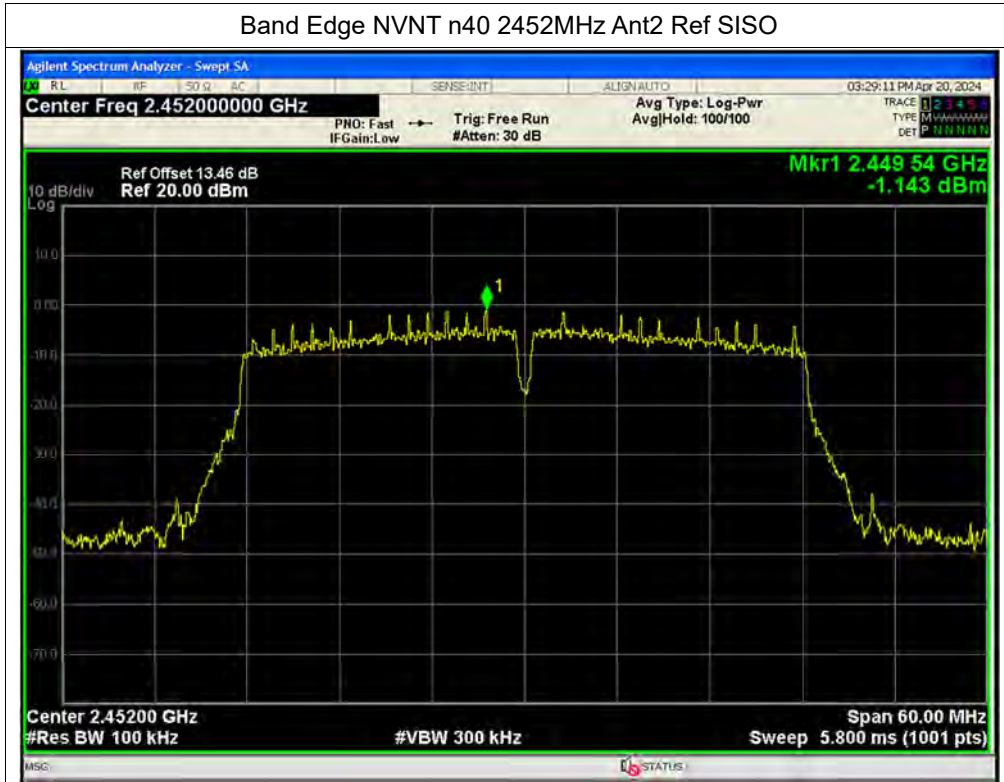


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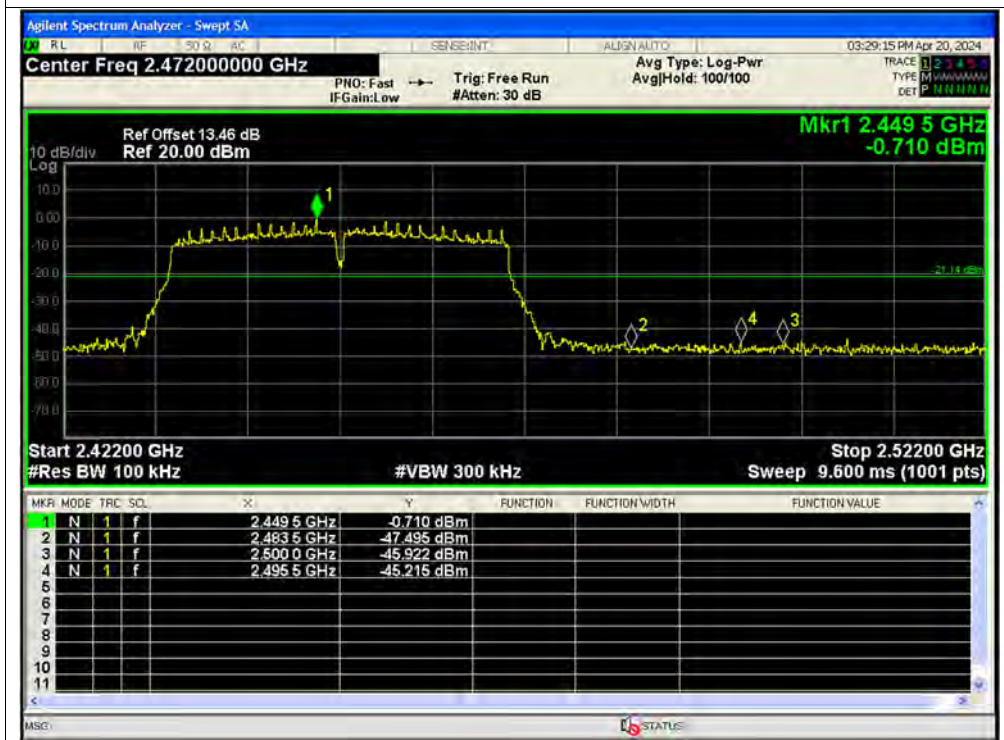




Band Edge NVNT n40 2452MHz Ant2 Ref SISO



Band Edge NVNT n40 2452MHz Ant2 Emission SISO

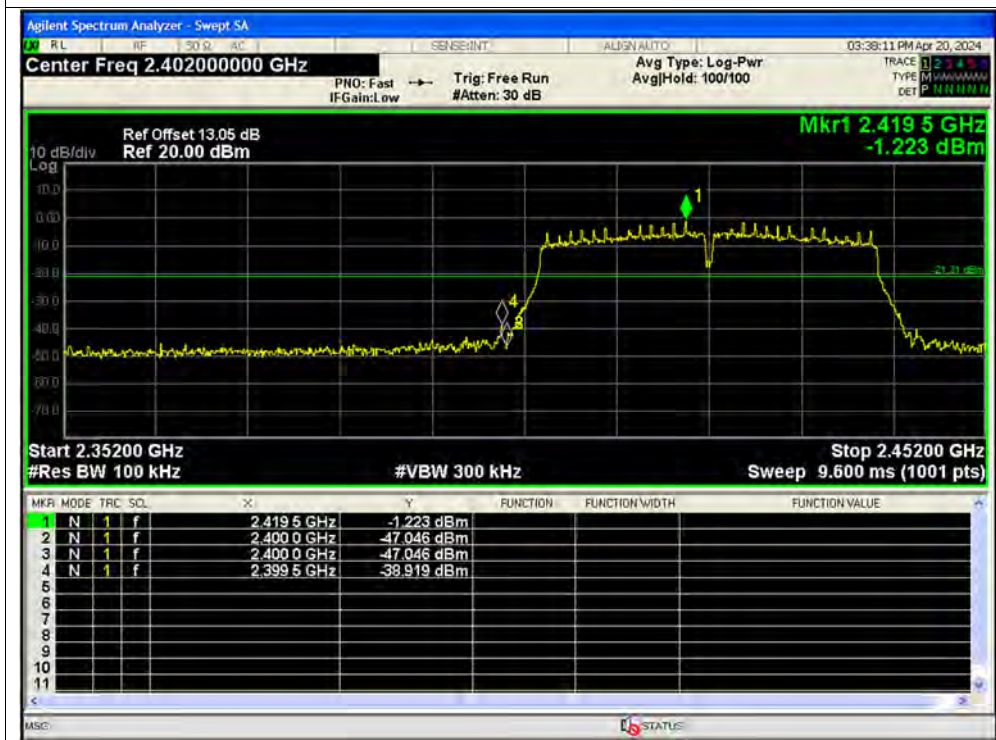




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Band Edge NVNT n40 2422MHz Ant1 Emission MIMO

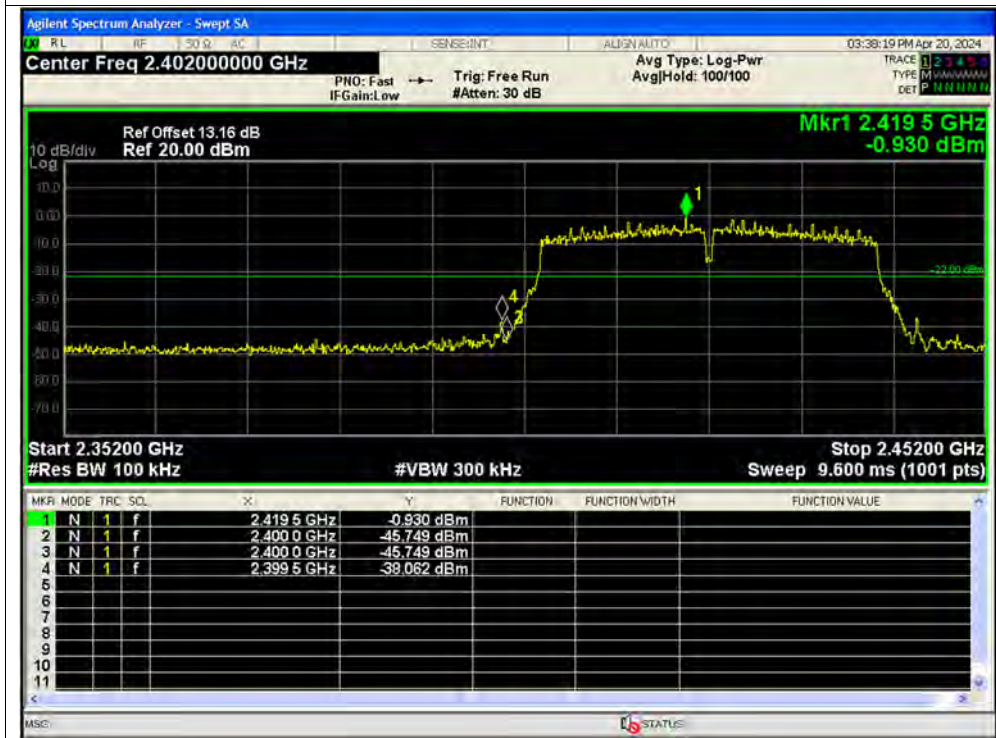




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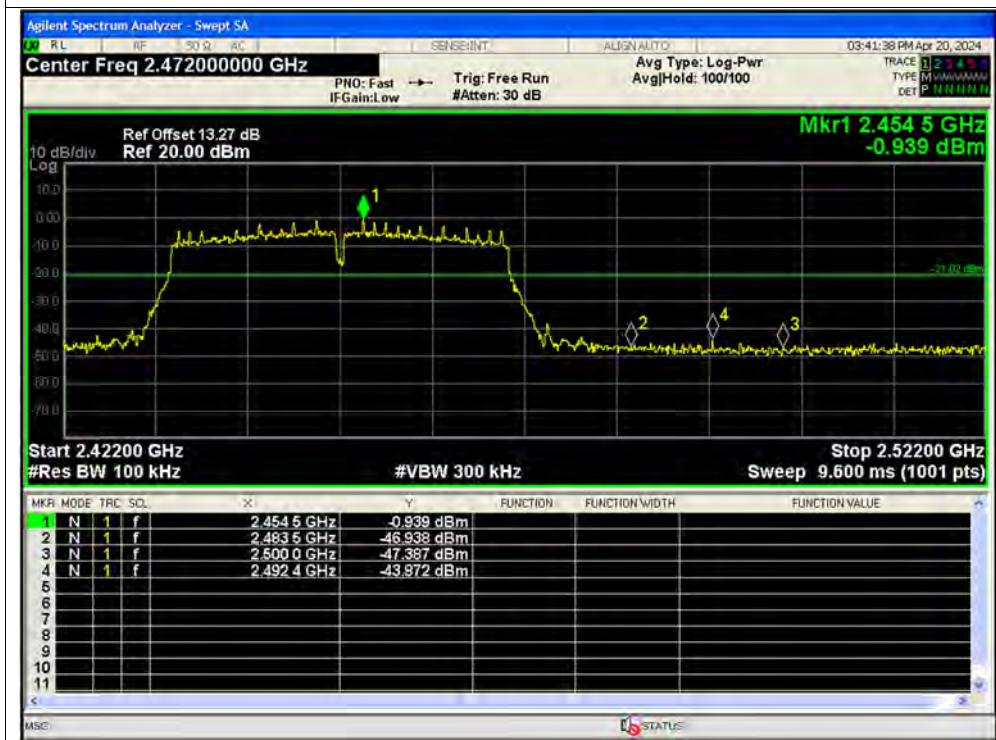




Band Edge NVNT n40 2452MHz Ant1 Ref MIMO



Band Edge NVNT n40 2452MHz Ant1 Emission MIMO

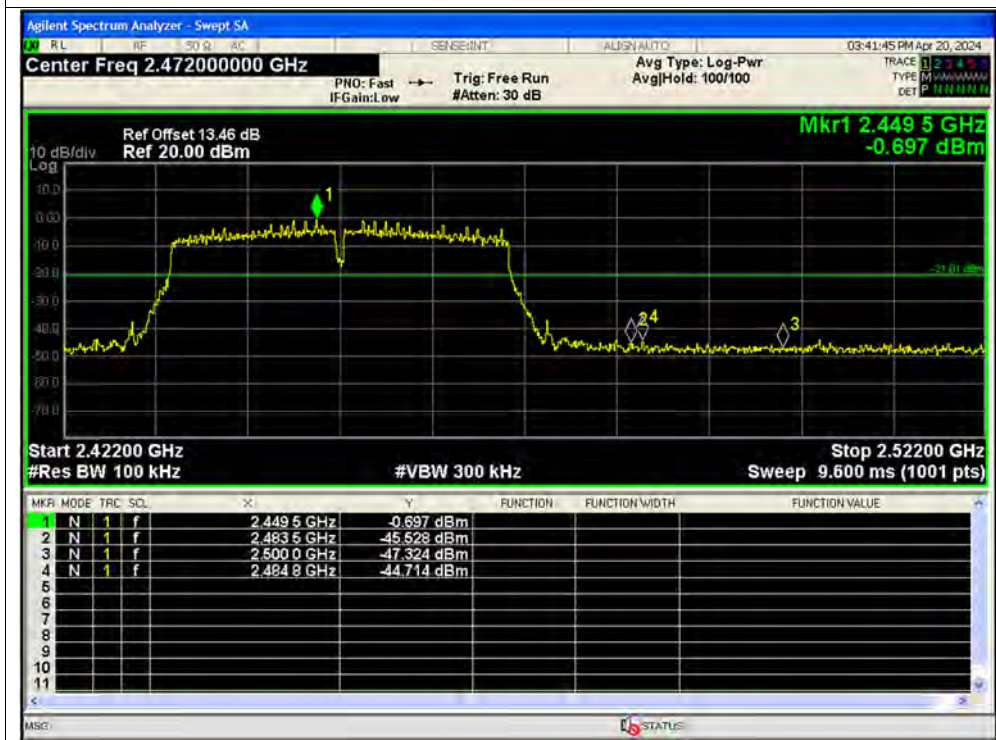




Band Edge NVNT n40 2452MHz Ant2 Ref MIMO



Band Edge NVNT n40 2452MHz Ant2 Emission MIMO





A.7. Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm /3kHz)	Duty Factor (dB)	Total PSD (dBm /3kHz)	Limit (dBm /3kHz)	Verdict
NVNT	b SISO	2412	Ant1	-4.07	0	-4.07	8	Pass
NVNT	b SISO	2437	Ant1	-7.55	0	-7.55	8	Pass
NVNT	b SISO	2462	Ant1	-3.72	0	-3.72	8	Pass
NVNT	b SISO	2412	Ant2	-5.15	0	-5.15	8	Pass
NVNT	b SISO	2437	Ant2	-3.68	0	-3.68	8	Pass
NVNT	b SISO	2462	Ant2	-4.57	0	-4.57	8	Pass
NVNT	g SISO	2412	Ant1	-10.76	0	-10.76	8	Pass
NVNT	g SISO	2437	Ant1	-10.83	0	-10.83	8	Pass
NVNT	g SISO	2462	Ant1	-10.51	0	-10.51	8	Pass
NVNT	g SISO	2412	Ant2	-10.21	0	-10.21	8	Pass
NVNT	g SISO	2437	Ant2	-11.01	0	-11.01	8	Pass
NVNT	g SISO	2462	Ant2	-10.18	0	-10.18	8	Pass
NVNT	n20 SISO	2412	Ant1	-10.62	0	-10.62	8	Pass
NVNT	n20 SISO	2437	Ant1	-10.51	0	-10.51	8	Pass
NVNT	n20 SISO	2462	Ant1	-10.58	0	-10.58	8	Pass
NVNT	n20 SISO	2412	Ant2	-10.8	0	-10.8	8	Pass
NVNT	n20 SISO	2437	Ant2	-10.57	0	-10.57	8	Pass
NVNT	n20 SISO	2462	Ant2	-10.28	0	-10.28	8	Pass
NVNT	n20 MIMO	2412	Ant1	-10.66	0	-10.66	8	Pass
NVNT	n20 MIMO	2412	Ant2	-11.01	0	-11.01	8	Pass
NVNT	n20 MIMO	2412	Sum	-7.82	0	-7.82	8	Pass
NVNT	n20 MIMO	2437	Ant1	-10.69	0	-10.69	8	Pass
NVNT	n20 MIMO	2437	Ant2	-11.14	0	-11.14	8	Pass
NVNT	n20 MIMO	2437	Sum	-7.9	0	-7.9	8	Pass
NVNT	n20 MIMO	2462	Ant1	-10.7	0	-10.7	8	Pass
NVNT	n20 MIMO	2462	Ant2	-11.14	0	-11.14	8	Pass
NVNT	n20 MIMO	2462	Sum	-7.9	0	-7.9	8	Pass
NVNT	n40 SISO	2422	Ant1	-17.07	0	-17.07	8	Pass
NVNT	n40 SISO	2437	Ant1	-16.06	0	-16.06	8	Pass
NVNT	n40 SISO	2452	Ant1	-16.27	0	-16.27	8	Pass
NVNT	n40 SISO	2422	Ant2	-16.36	0	-16.36	8	Pass
NVNT	n40 SISO	2437	Ant2	-16.78	0	-16.78	8	Pass
NVNT	n40 SISO	2452	Ant2	-16.24	0	-16.24	8	Pass



NVNT	n40 MIMO	2422	Ant1	-17.04	0	-17.04	8	Pass
NVNT	n40 MIMO	2422	Ant2	-16.18	0	-16.18	8	Pass
NVNT	n40 MIMO	2422	Sum	-13.58	0	-13.58	8	Pass
NVNT	n40 MIMO	2437	Ant1	-16.02	0	-16.02	8	Pass
NVNT	n40 MIMO	2437	Ant2	-15.85	0	-15.85	8	Pass
NVNT	n40 MIMO	2437	Sum	-12.92	0	-12.92	8	Pass
NVNT	n40 MIMO	2452	Ant1	-16.38	0	-16.38	8	Pass
NVNT	n40 MIMO	2452	Ant2	-15.34	0	-15.34	8	Pass
NVNT	n40 MIMO	2452	Sum	-12.82	0	-12.82	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1 SISO



PSD NVNT b 2437MHz Ant1 SISO





PSD NVNT b 2462MHz Ant1 SISO

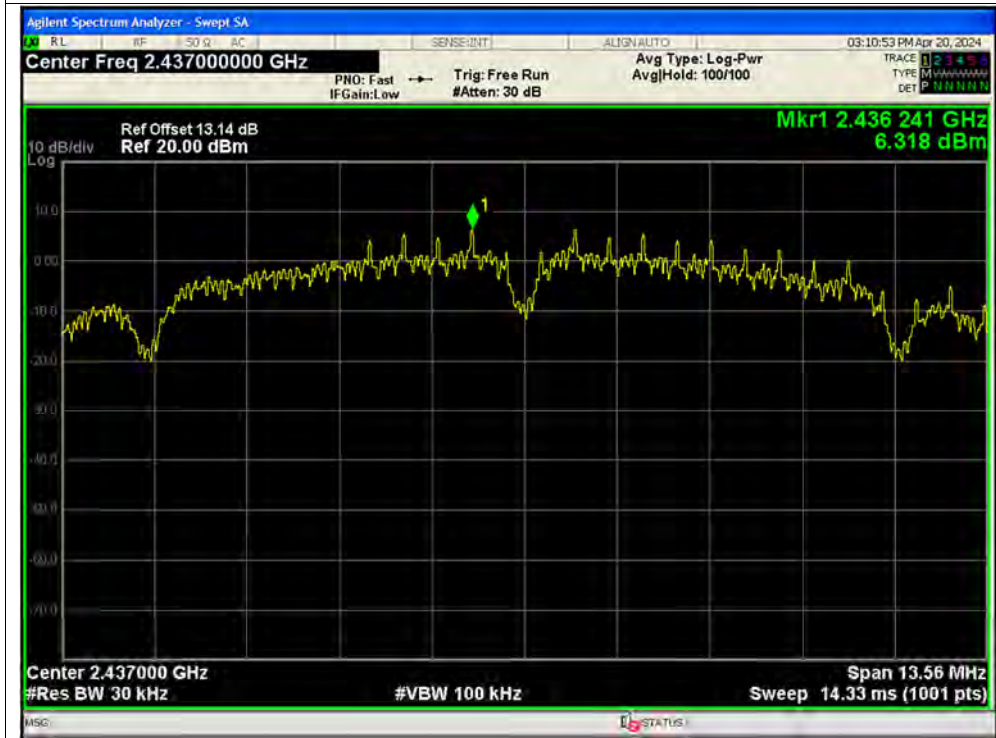


PSD NVNT b 2412MHz Ant2 SISO





PSD NVNT b 2437MHz Ant2 SISO



PSD NVNT b 2462MHz Ant2 SISO





PSD NVNT g 2412MHz Ant1 SISO



PSD NVNT g 2437MHz Ant1 SISO



PSD NVNT g 2462MHz Ant1 SISO



PSD NVNT g 2412MHz Ant2 SISO

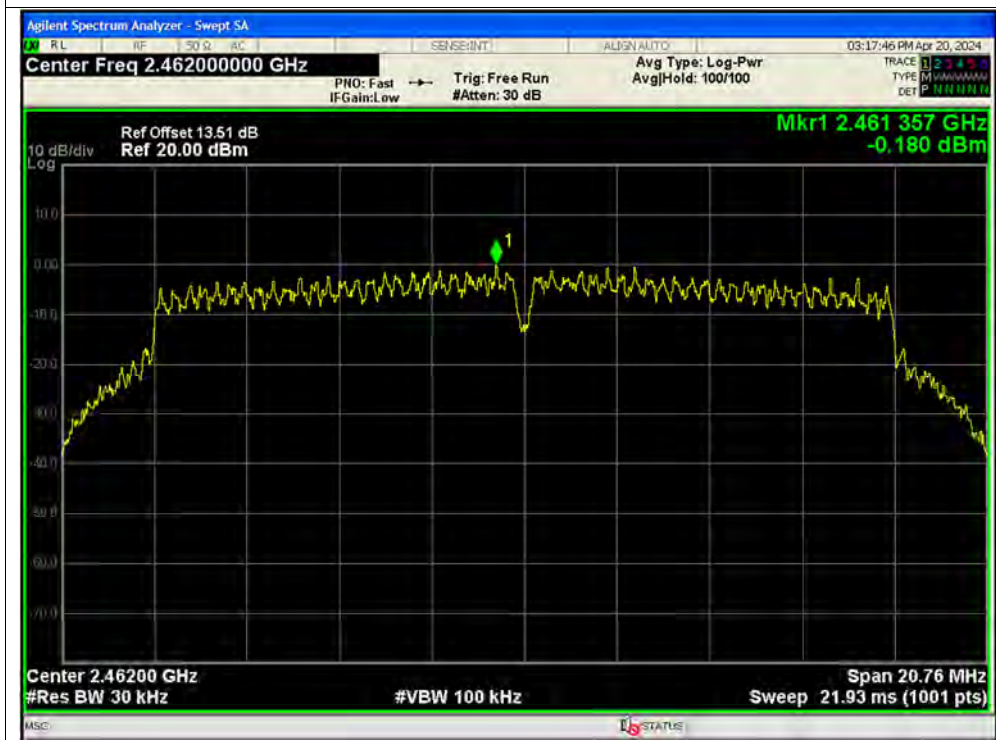




PSD NVNT g 2437MHz Ant2 SISO

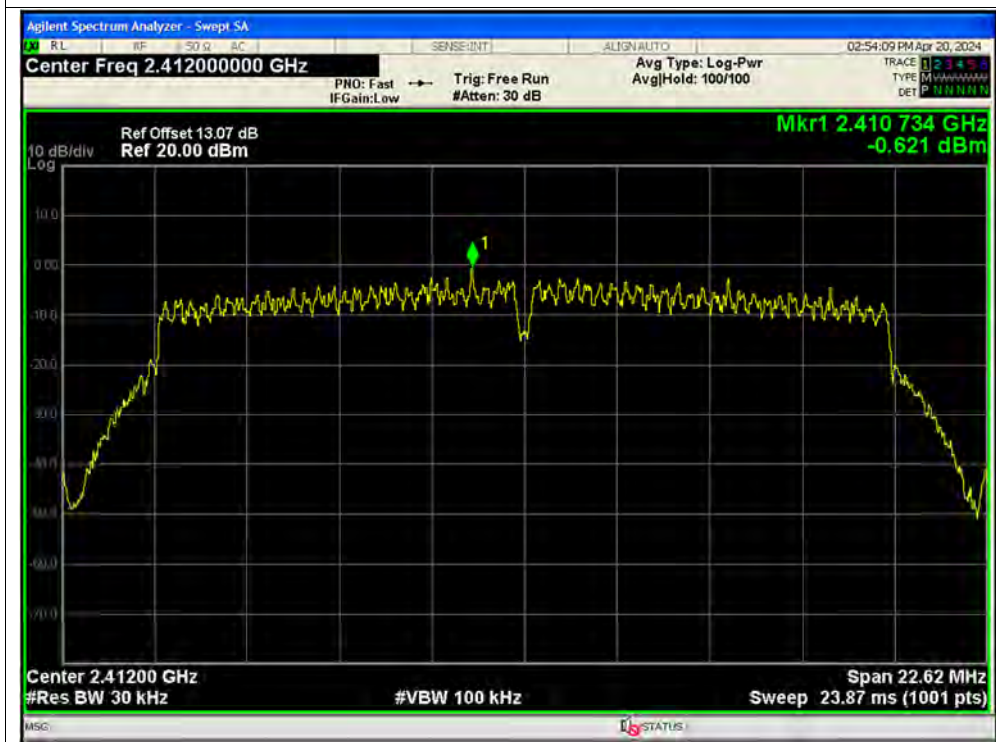


PSD NVNT g 2462MHz Ant2 SISO

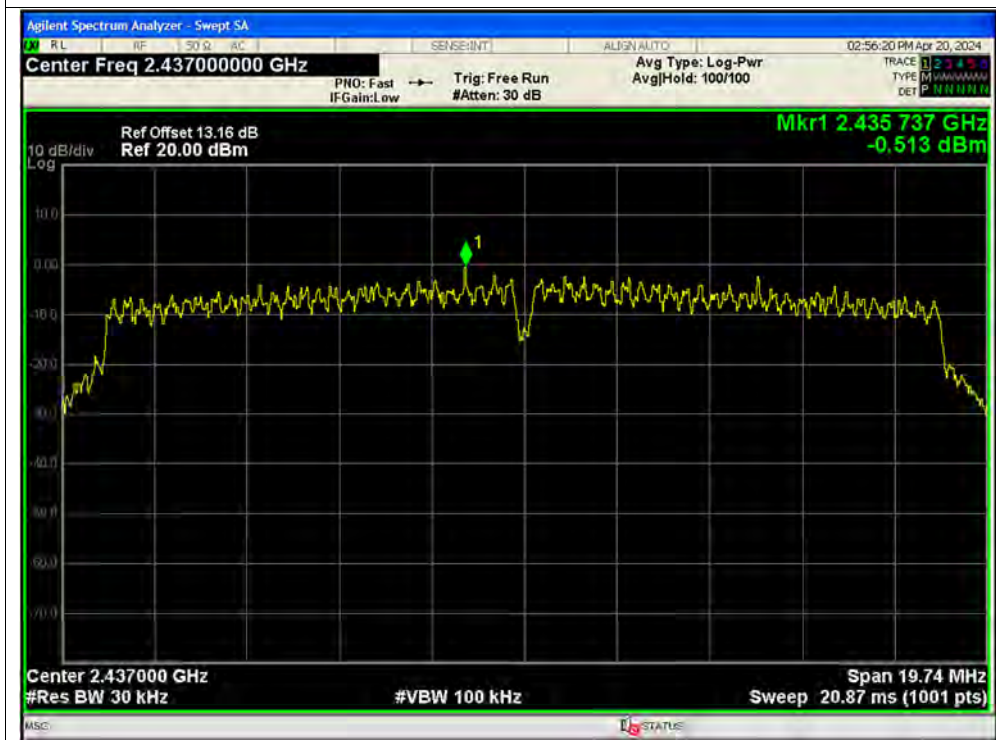




PSD NVNT n20 2412MHz Ant1 SISO



PSD NVNT n20 2437MHz Ant1 SISO





PSD NVNT n20 2462MHz Ant1 SISO



PSD NVNT n20 2412MHz Ant2 SISO





PSD NVNT n20 2437MHz Ant2 SISO

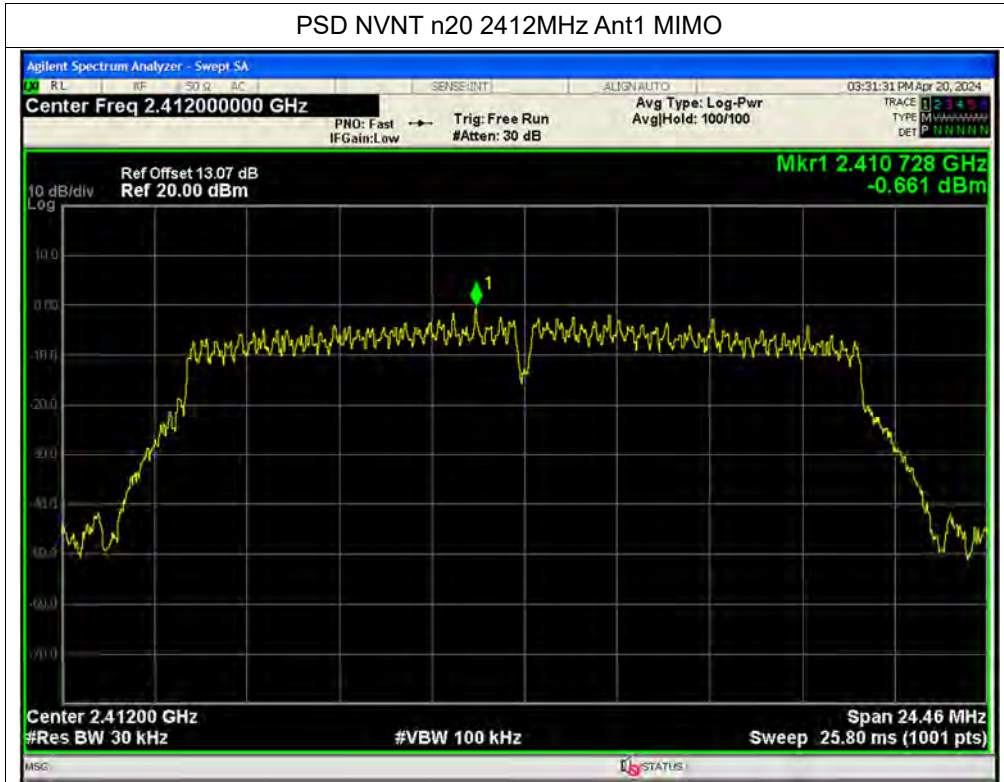


PSD NVNT n20 2462MHz Ant2 SISO

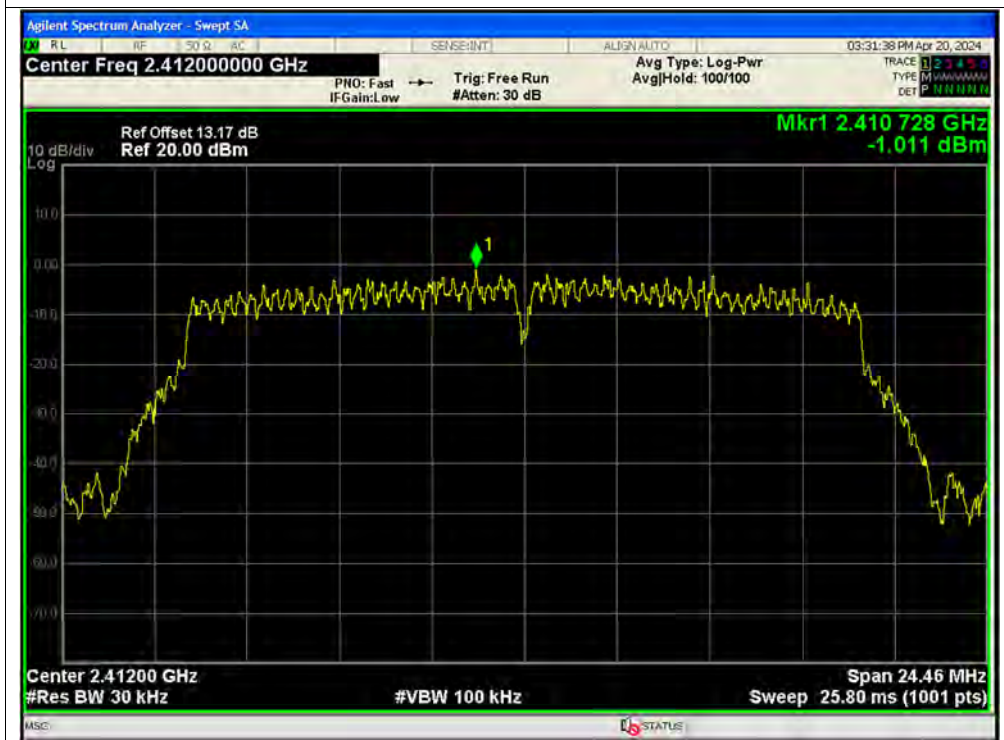




PSD NVNT n20 2412MHz Ant1 MIMO



PSD NVNT n20 2412MHz Ant2 MIMO





PSD NVNT n20 2437MHz Ant1 MIMO

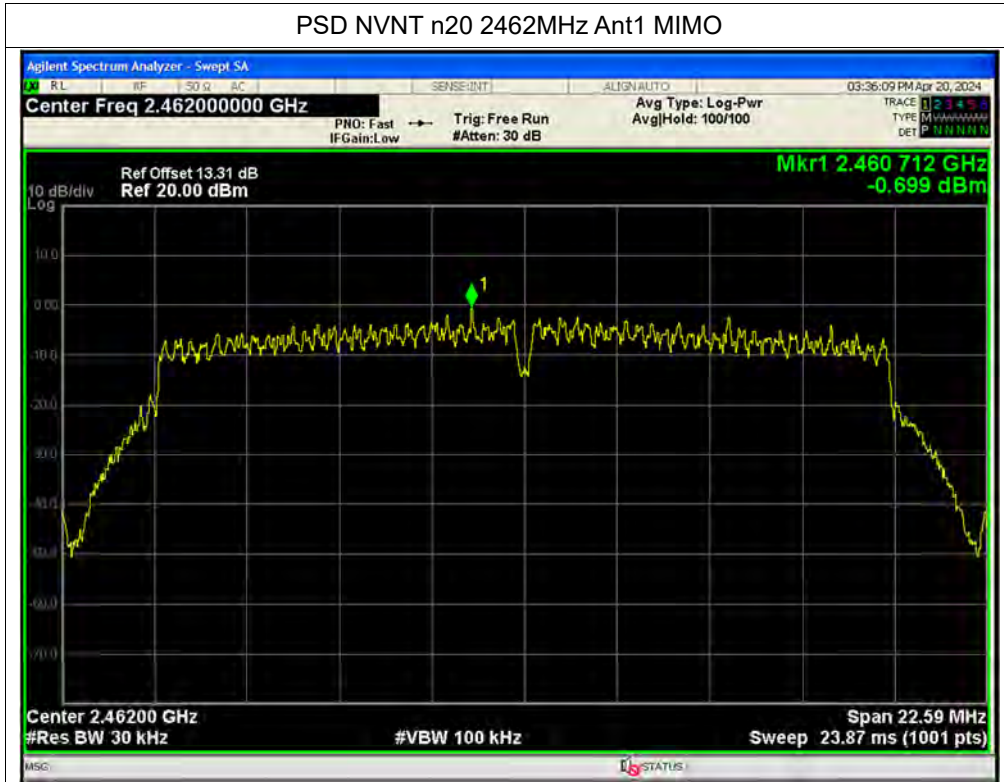


PSD NVNT n20 2437MHz Ant2 MIMO

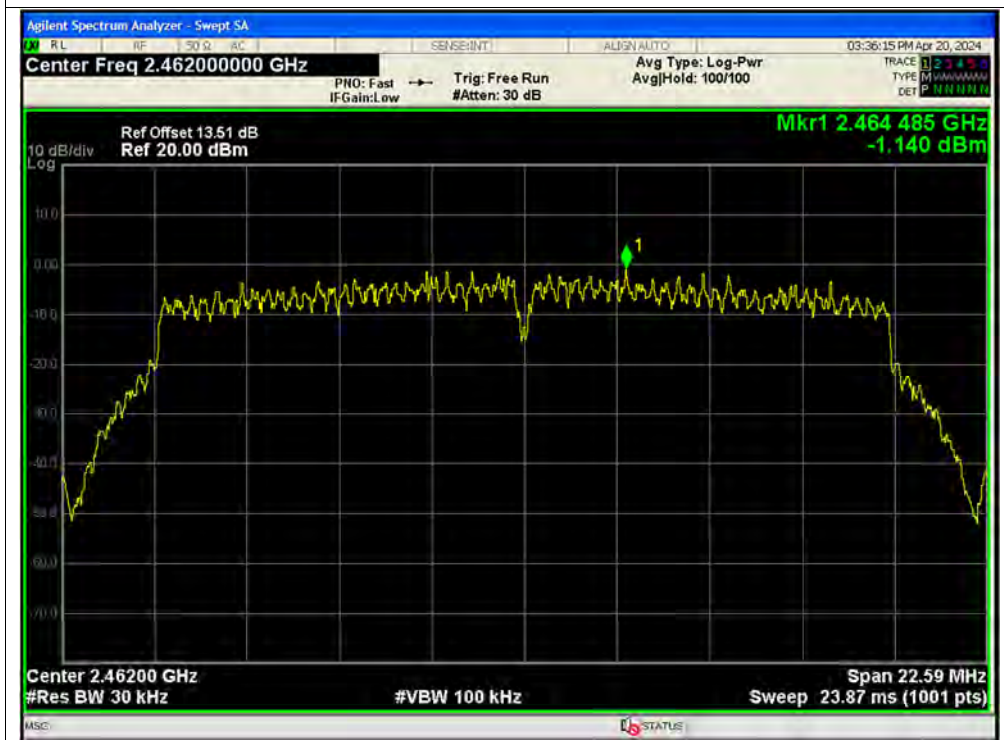




PSD NVNT n20 2462MHz Ant1 MIMO



PSD NVNT n20 2462MHz Ant2 MIMO





PSD NVNT n40 2422MHz Ant1 SISO



PSD NVNT n40 2437MHz Ant1 SISO





PSD NVNT n40 2452MHz Ant1 SISO



PSD NVNT n40 2422MHz Ant2 SISO





PSD NVNT n40 2437MHz Ant2 SISO

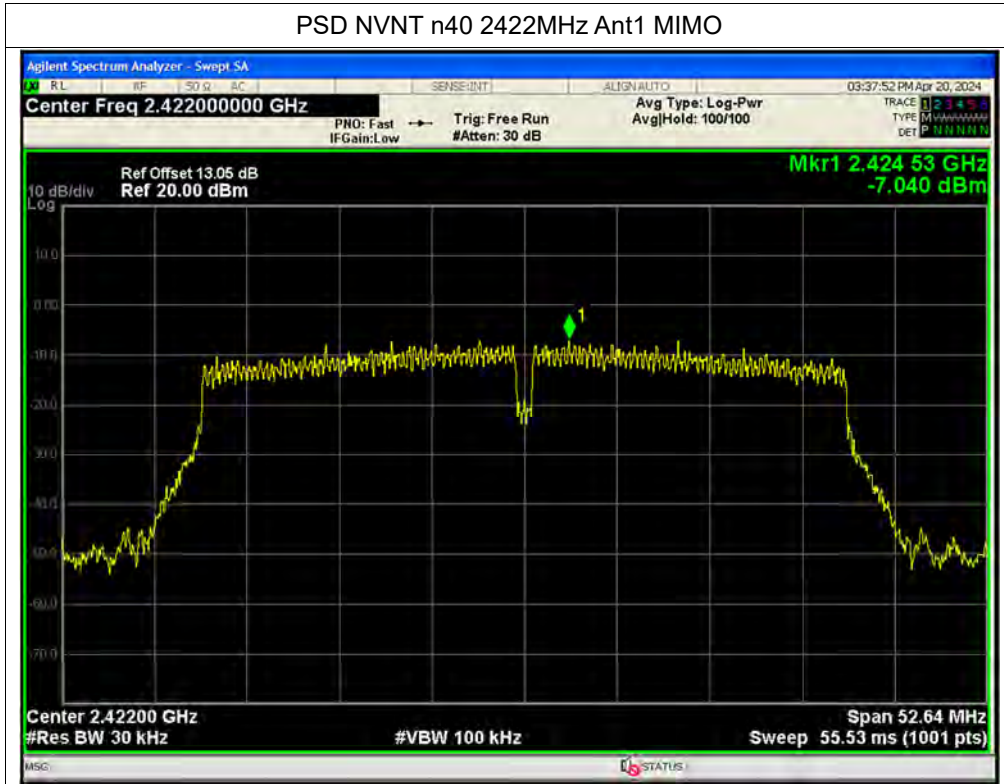


PSD NVNT n40 2452MHz Ant2 SISO

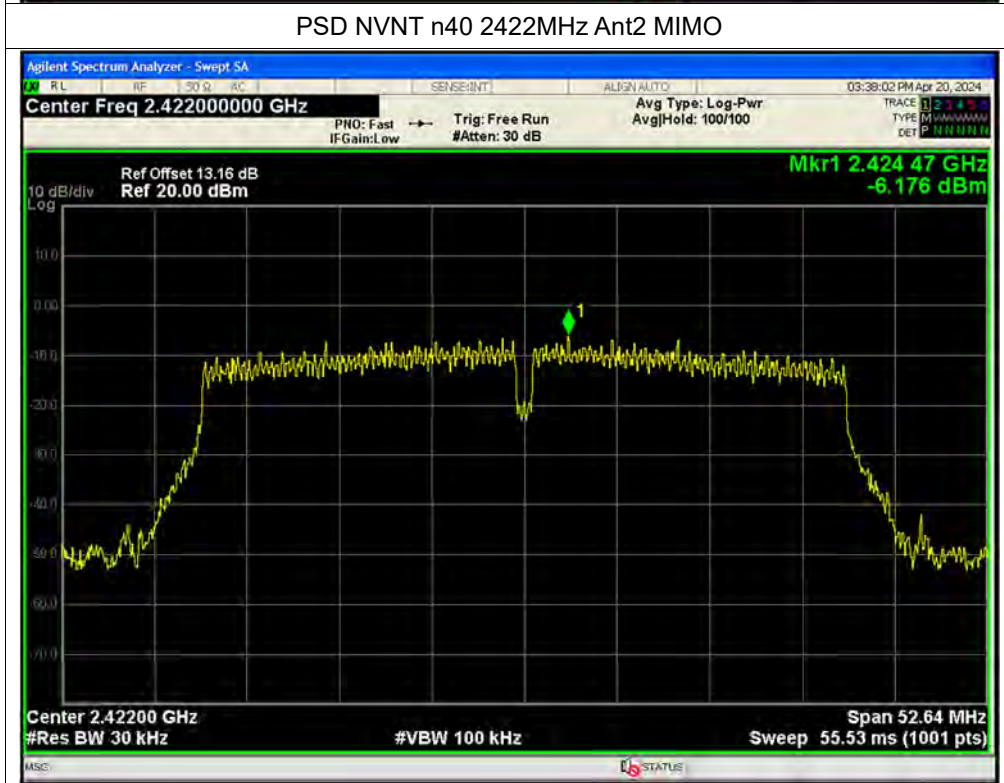




PSD NVNT n40 2422MHz Ant1 MIMO

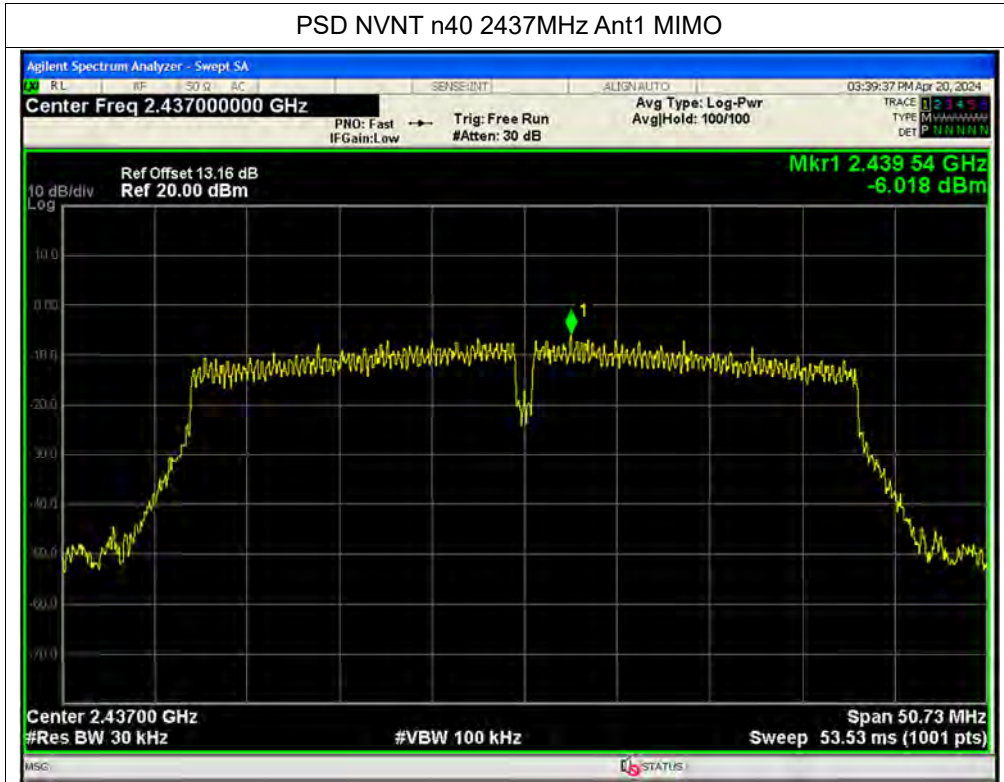


PSD NVNT n40 2422MHz Ant2 MIMO

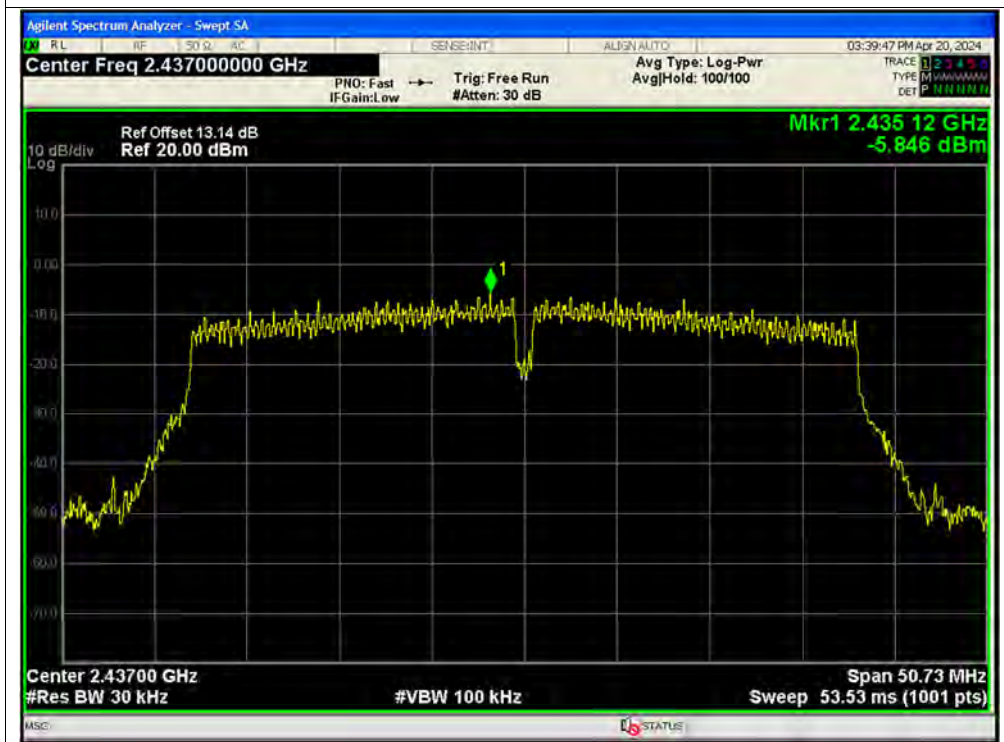




PSD NVNT n40 2437MHz Ant1 MIMO



PSD NVNT n40 2437MHz Ant2 MIMO





PSD NVNT n40 2452MHz Ant1 MIMO



PSD NVNT n40 2452MHz Ant2 MIMO





A.8. 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 +WIFI TX

Test voltage: AC 120V/60Hz

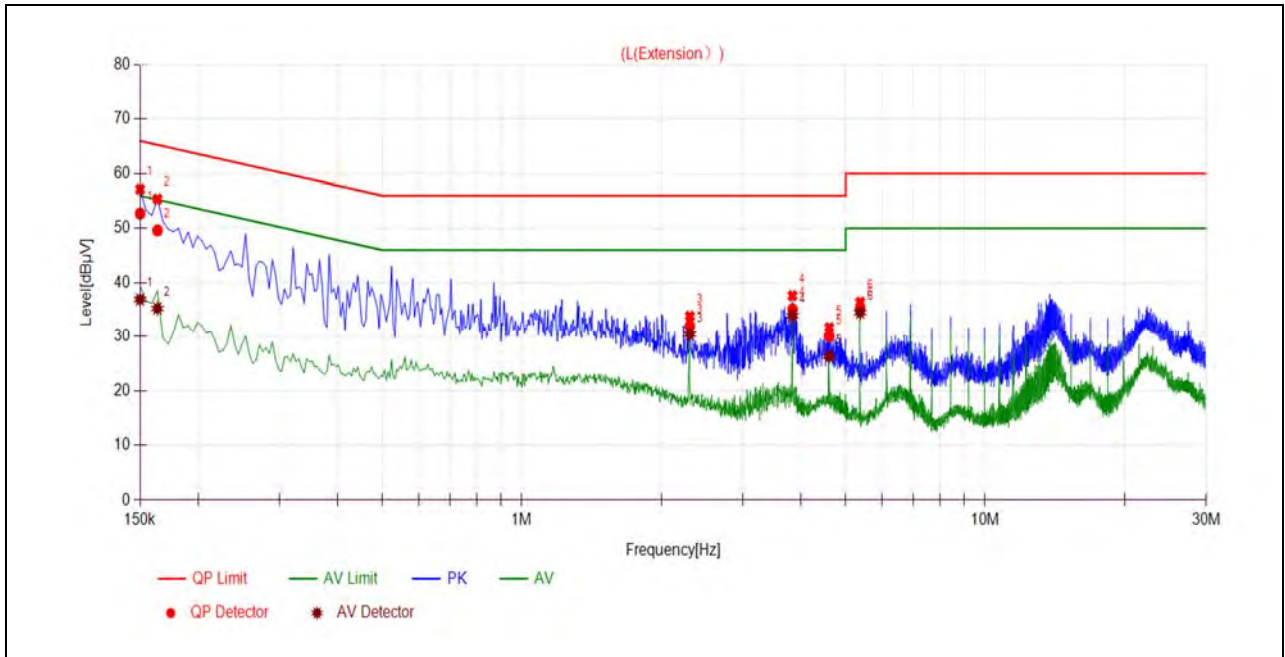
The measurement results are obtained as below:

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

U_R : Receiver Reading

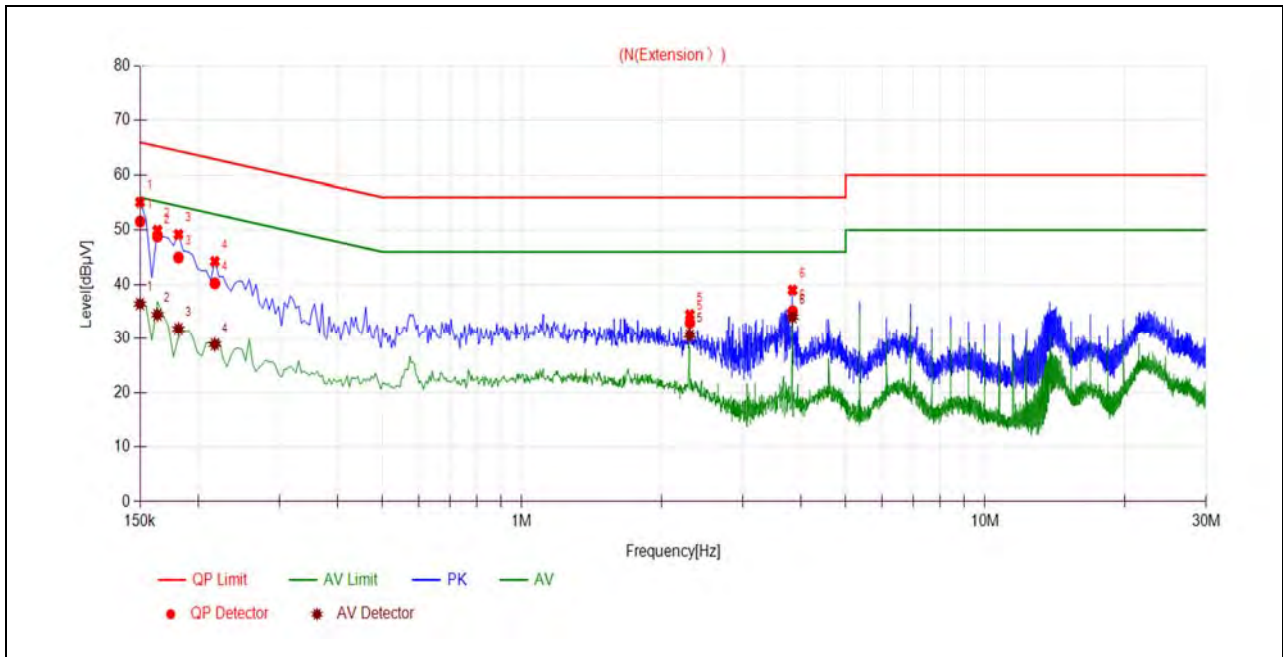
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	52.72	36.91	66.00	56.00	Line	PASS
2	0.1635	49.64	35.25	65.29	55.29		PASS
3	2.3053	32.00	30.39	56.00	46.00		PASS
4	3.8400	35.11	33.89	56.00	46.00		PASS
5	4.6095	30.00	26.28	56.00	46.00		PASS
6	5.3742	35.19	34.47	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	51.58	36.45	66.00	56.00	Neutral	PASS
2	0.1635	48.86	34.45	65.28	55.28		PASS
3	0.1815	44.97	31.80	64.42	54.42		PASS
4	0.2175	40.24	28.90	62.91	52.91		PASS
5	2.3055	32.97	30.64	56.00	46.00		PASS
6	3.8403	35.08	34.02	56.00	46.00		PASS

**A.9. 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

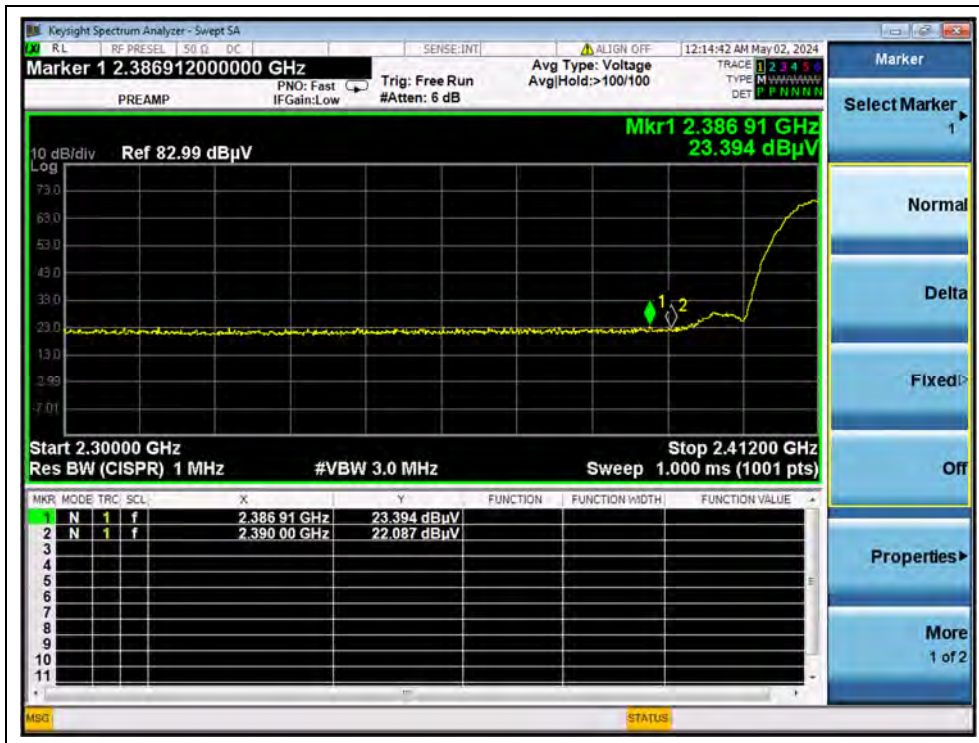
G_{preamp} : Preamplifier Gain

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 (Horizontal) was recorded in this test report.

802.11b Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
1	2386.91	PK	23.39	6.74	27.20	57.33	74	PASS
1	2390.00	AV	11.10	6.74	27.20	45.04	54	PASS
11	2484.19	PK	22.80	6.74	27.20	56.74	74	PASS
11	2483.50	AV	11.22	6.74	27.20	45.16	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

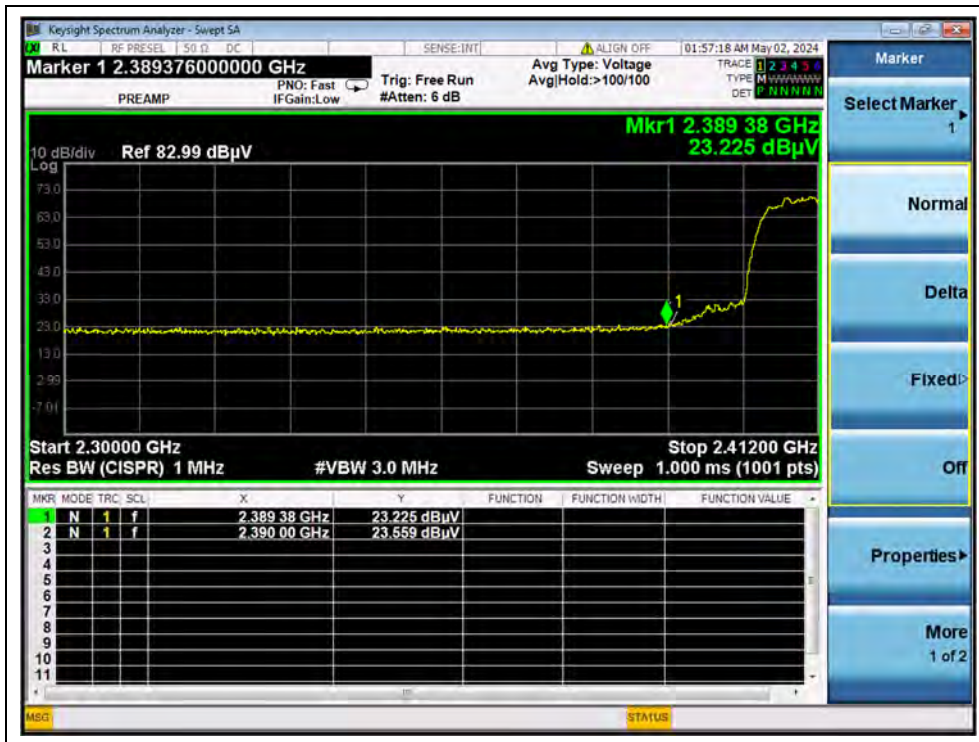


(AVERAGE, Channel 11, 802.11b)

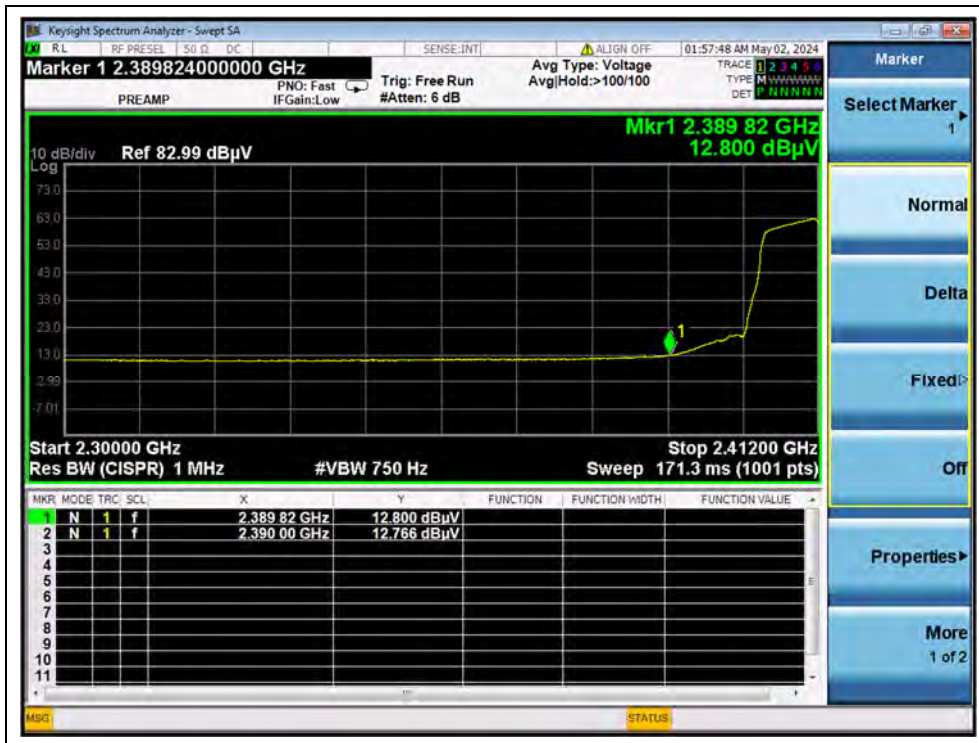


802.11g Mode

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						
1	2390.00	PK	23.56	6.74	27.20	57.50	74	PASS
1	2389.82	AV	12.80	6.74	27.20	46.74	54	PASS
11	2483.70	PK	24.60	6.74	27.20	58.54	74	PASS
11	2483.74	AV	13.35	6.74	27.20	47.29	54	PASS



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

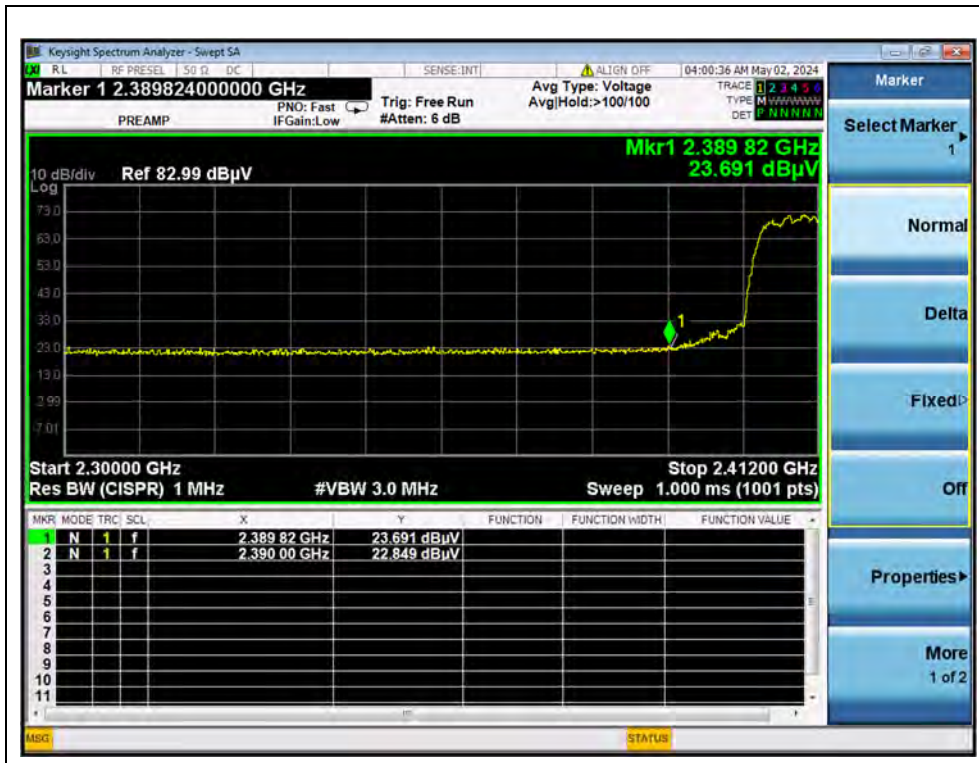


(AVERAGE, Channel 11, 802.11g)

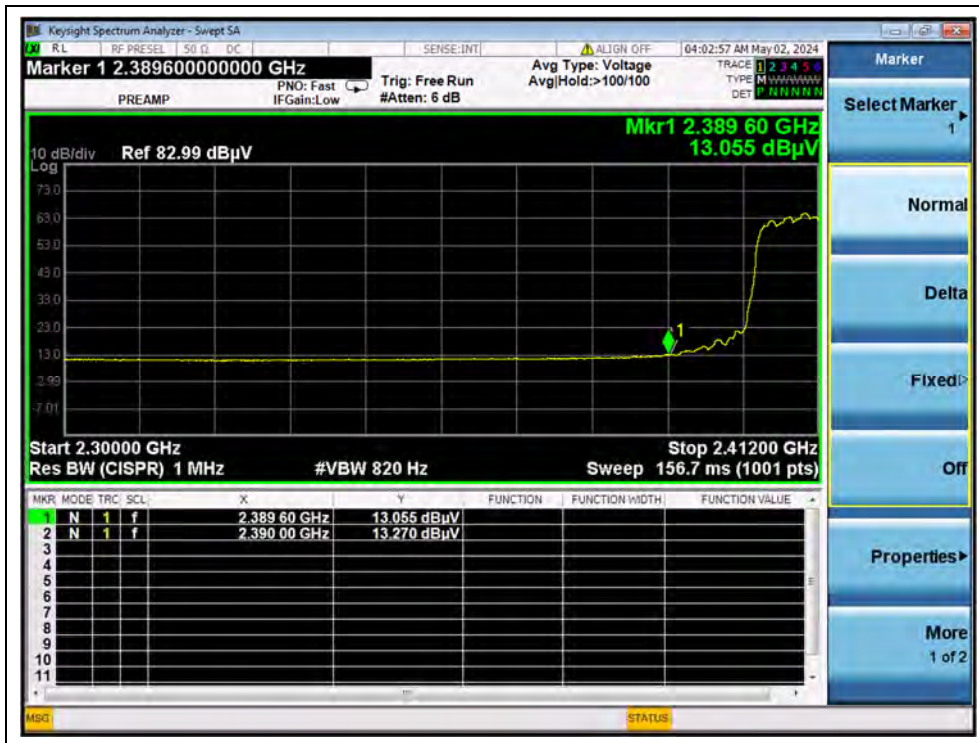


802.11n (HT20) Mode

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						
1	2389.82	PK	23.69	6.74	27.20	57.63	74	PASS
1	2390.00	AV	13.27	6.74	27.20	47.21	54	PASS
11	2485.67	PK	24.95	6.74	27.20	58.89	74	PASS
11	2485.07	AV	13.46	6.74	27.20	47.40	54	PASS



(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



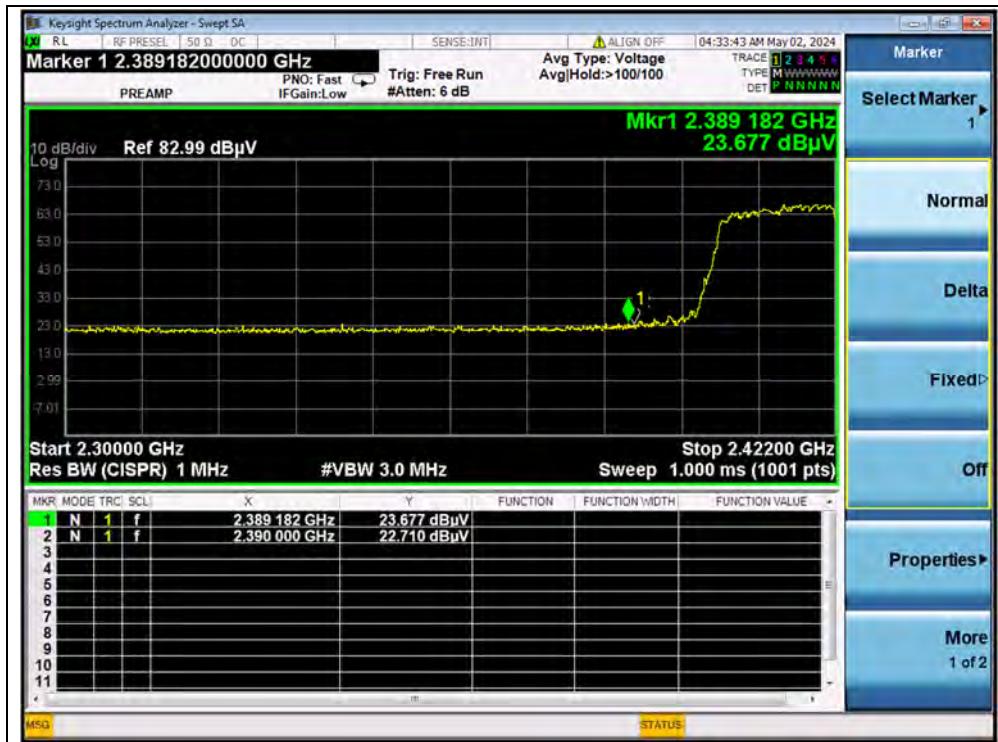
(PEAK, Channel 11, 802.11n (HT20))



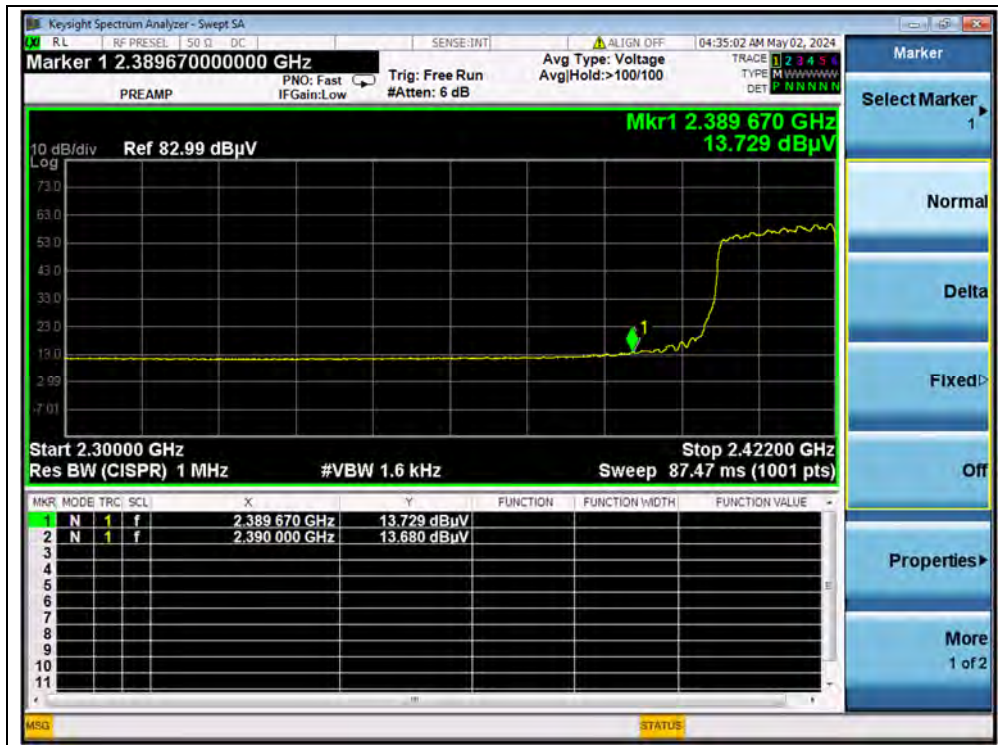
(AVERAGE, Channel 11, 802.11n (HT20))

802.11n (HT40) 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						
3	2389.18	PK	23.68	6.74	27.20	57.62	74	PASS
3	2389.67	AV	13.73	6.74	27.20	47.67	54	PASS
9	2486.66	PK	23.82	6.74	27.20	57.76	74	PASS
9	2483.87	AV	13.66	6.74	27.20	47.60	54	PASS



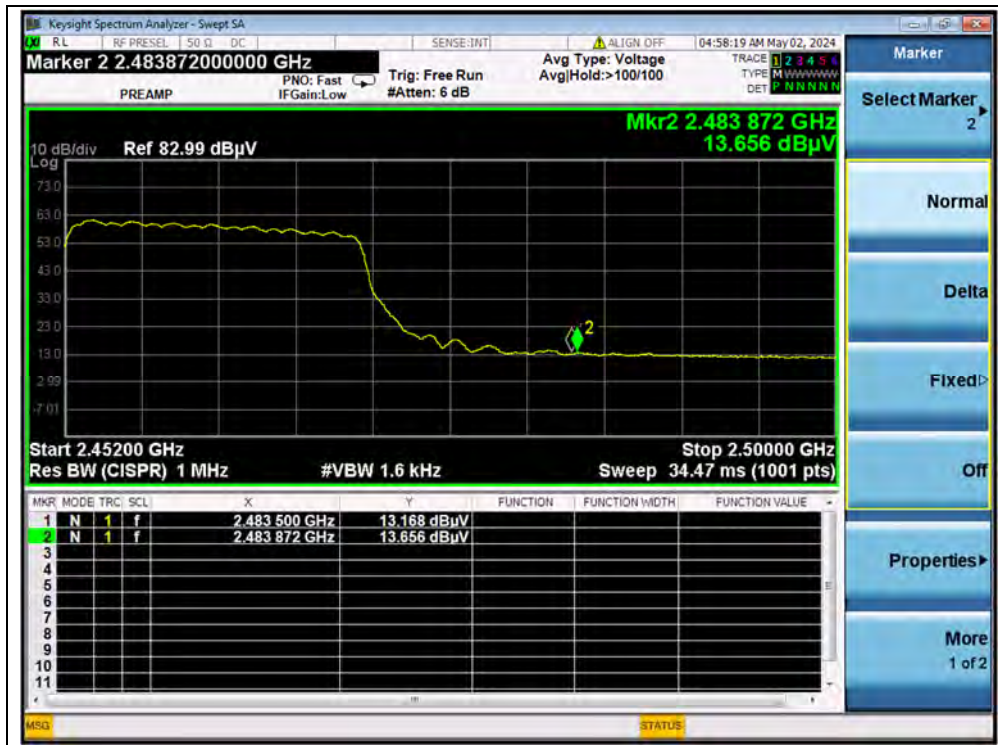
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 9, 802.11n (HT40))



(AVERAGE, Channel 9, 802.11n (HT40))



A.10. 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:

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

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.

Field strength of fundamental:

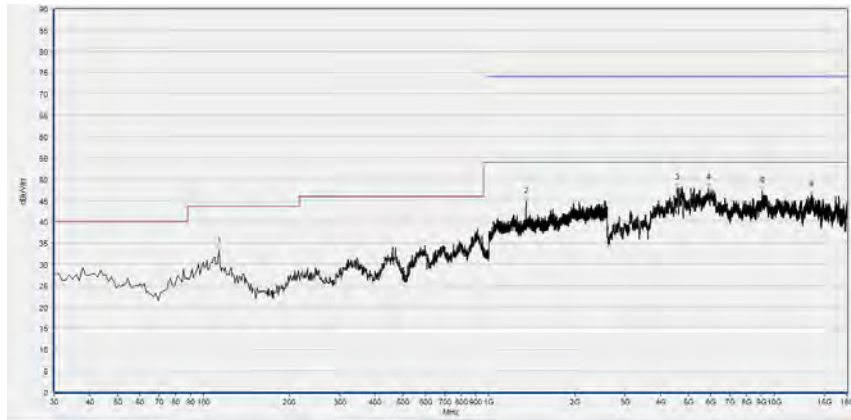
Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
2425.60	67.69	27.20	6.74	101.63	Horizontal

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).



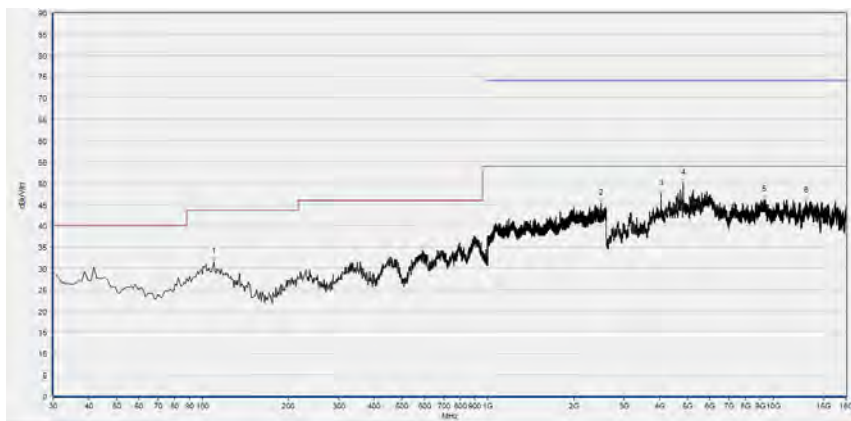
802.11b Mode

Plot for Channel 1



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	33.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.867	44.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4574.280	47.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5883.280	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13463.160	46.30	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
109.540	31.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2498.667	45.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4050.680	47.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4823.760	49.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9277.440	46.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13062.760	45.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

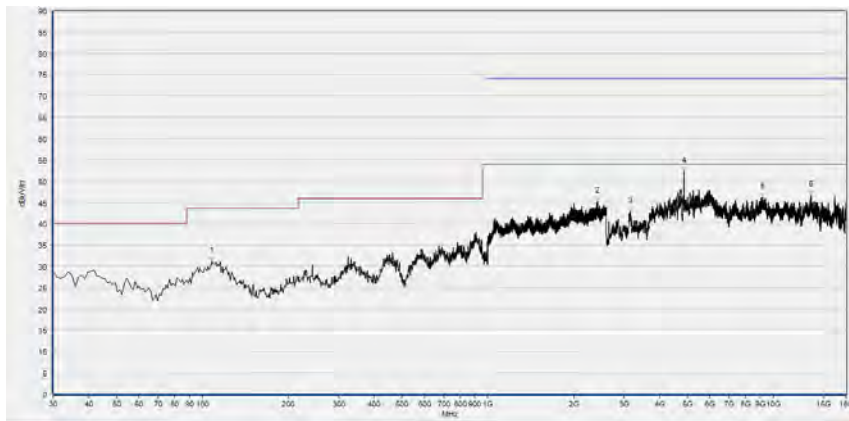
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	31.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.867	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5735.440	47.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9246.640	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13444.680	46.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

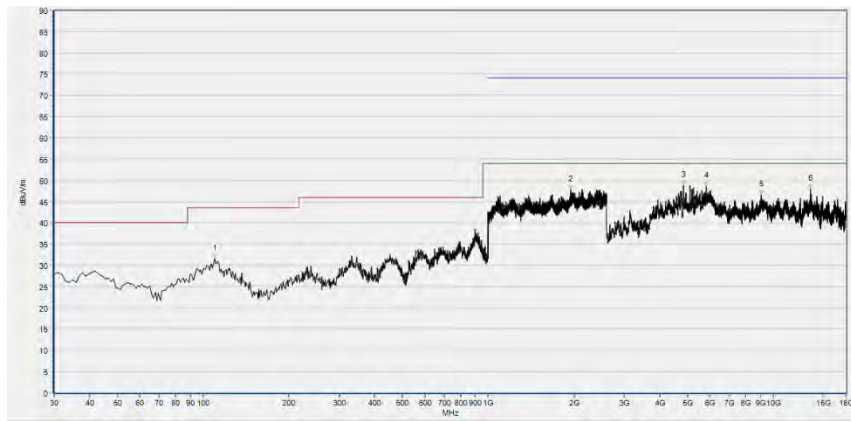
(Antenna Horizontal, 30MHz to 18GHz)



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
107.600	31.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2418.133	45.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3160.560	42.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4873.040	52.24	N/A	50.72	74.00	N/A	54.00	Vertical	PASS
9178.880	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13570.960	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



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	31.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1945.067	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4829.920	48.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5818.600	48.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9074.160	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13530.920	47.98	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
102.750	32.48	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2462.400	50.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2831.000	44.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4925.400	51.56	N/A	50.97	74.00	N/A	54.00	Vertical	PASS
8427.360	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13497.040	47.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



802.11g Mode

Plot for Channel 1



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	30.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2409.067	48.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5239.560	48.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9354.440	46.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13112.040	45.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

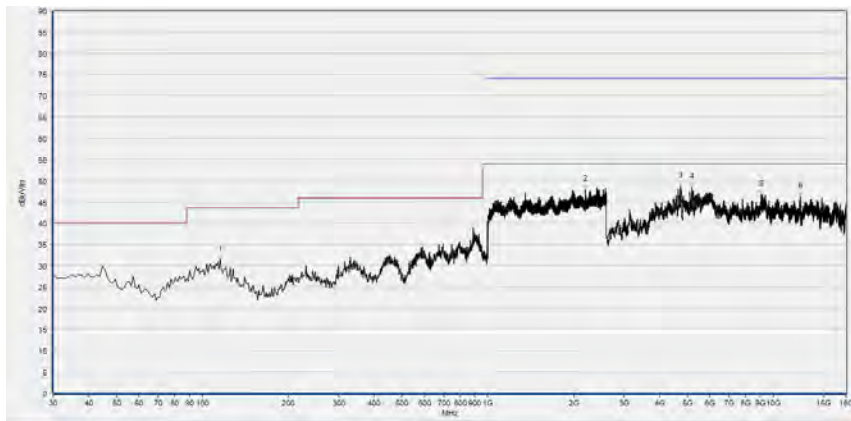
(Antenna Horizontal, 30MHz to 18GHz)



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	30.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2573.333	45.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4648.200	48.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5991.080	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9064.920	45.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13580.200	45.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

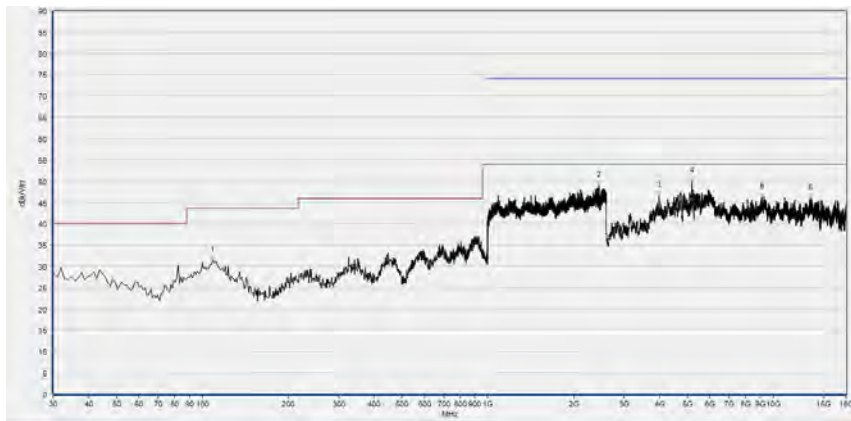
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2202.133	47.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	48.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5174.880	48.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12415.960	46.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

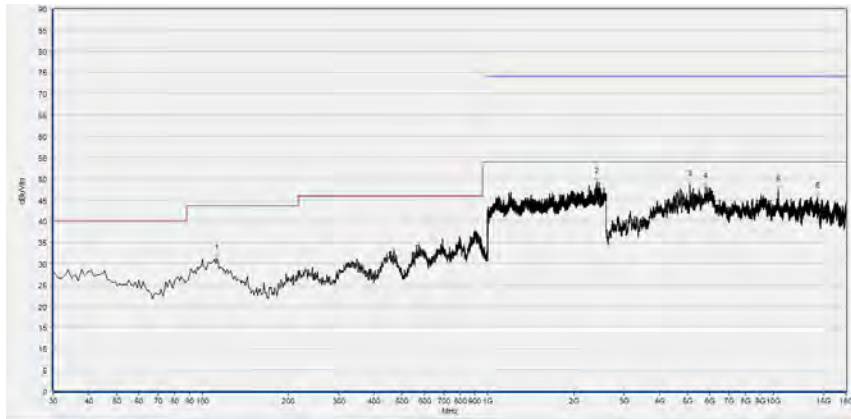
(Antenna Horizontal, 30MHz to 18GHz)



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	31.39	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2449.067	48.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3986.000	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5187.200	49.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9092.640	46.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13481.640	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

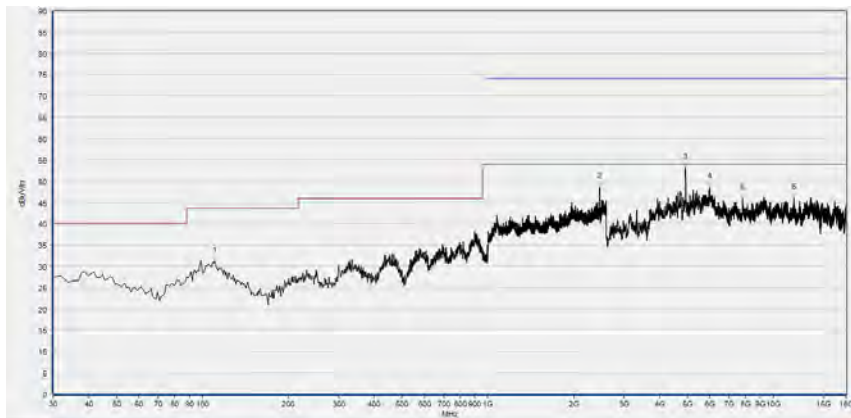
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



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
112.450	31.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2411.733	49.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5107.120	48.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5797.040	48.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10410.880	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14270.120	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



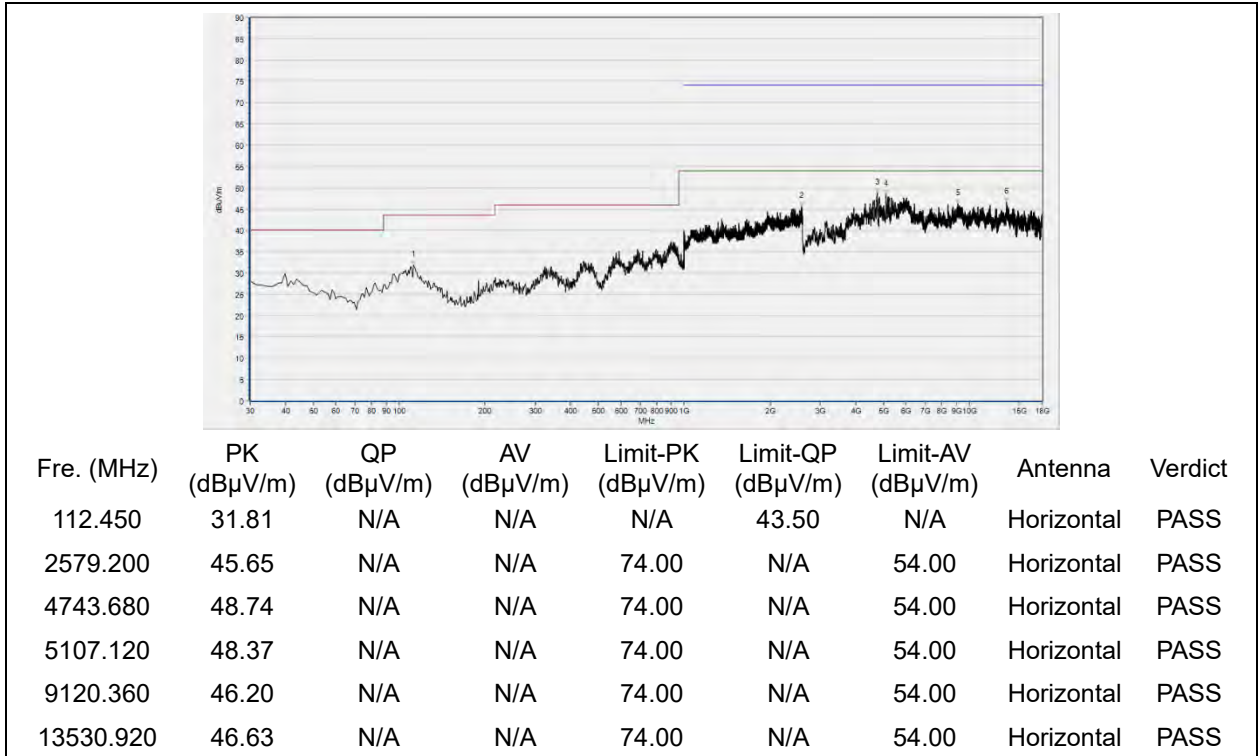
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	31.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2464.533	48.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4922.320	53.16	N/A	42.93	74.00	N/A	54.00	Vertical	PASS
5972.600	48.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7805.200	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11812.280	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

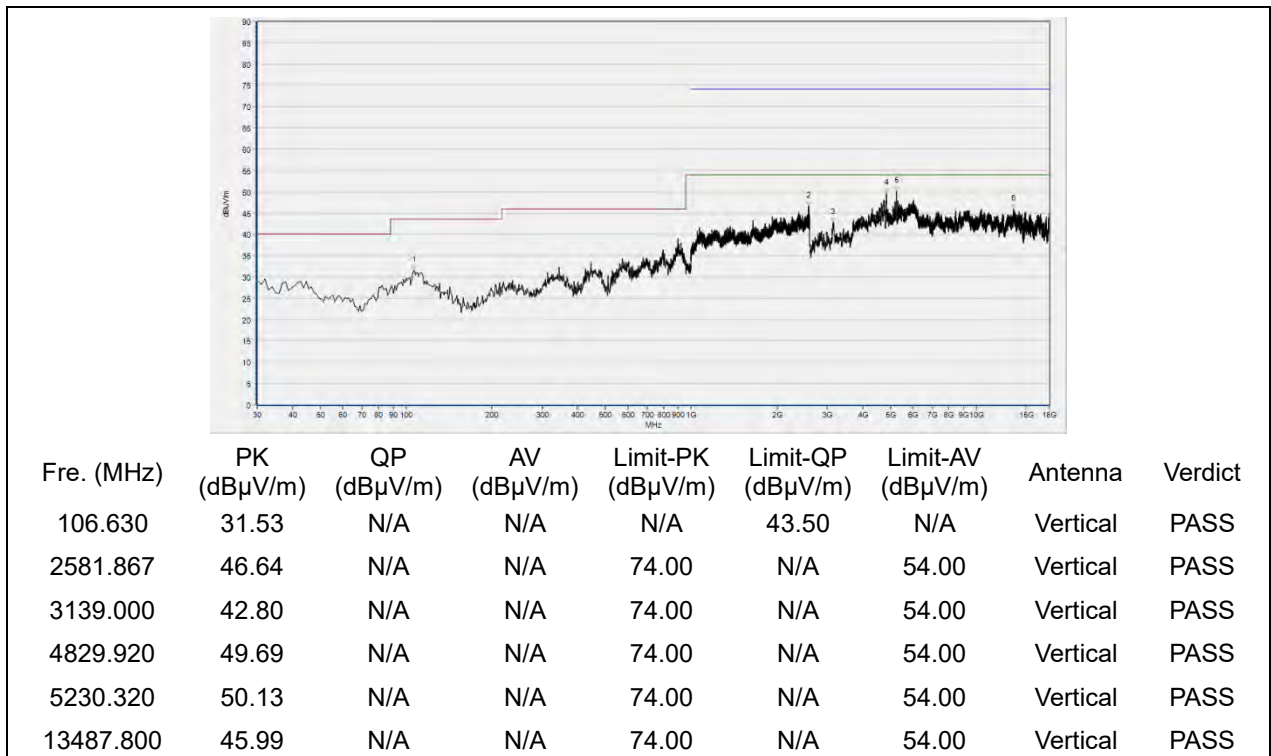


802.11n (HT20) Mode

Plot for Channel 1

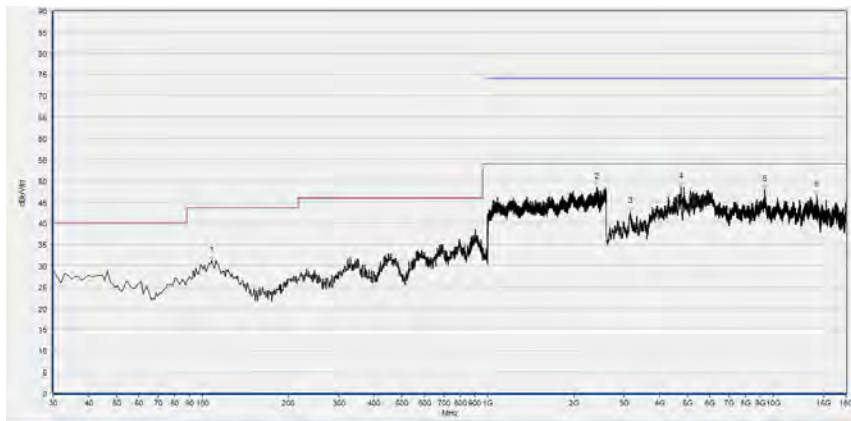


(Antenna Horizontal, 30MHz to 18GHz)



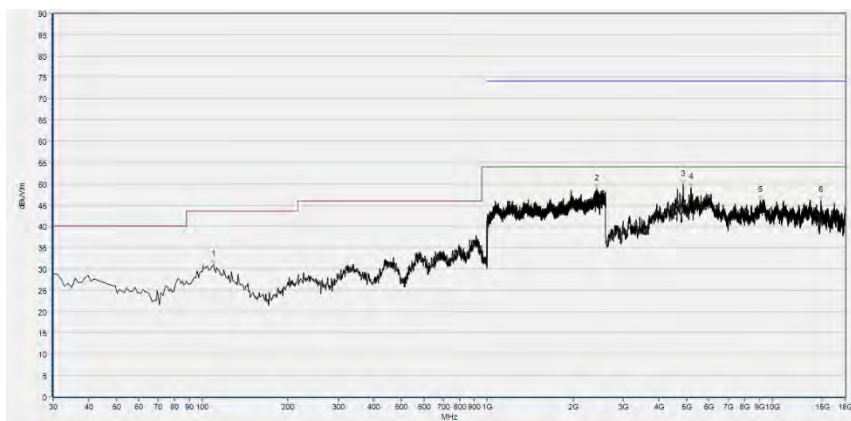
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	31.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2415.467	48.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3151.320	42.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	48.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9351.360	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14183.880	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

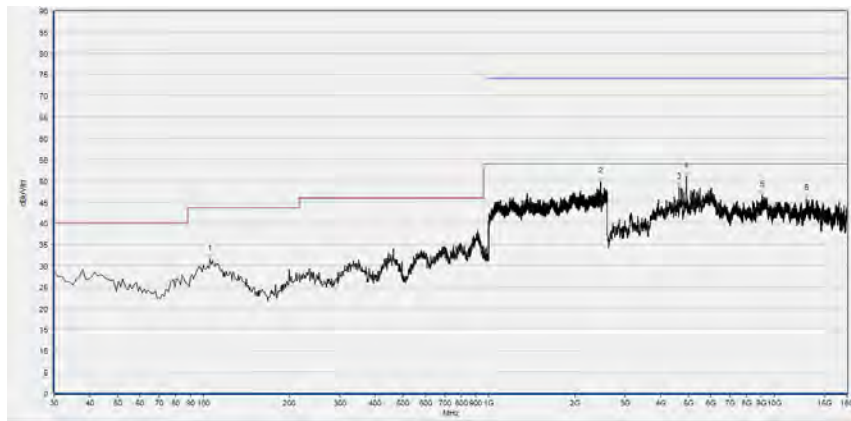
(Antenna Horizontal, 30MHz to 18GHz)



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	31.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2417.067	48.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4876.120	49.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5174.880	49.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9071.080	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14781.400	46.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

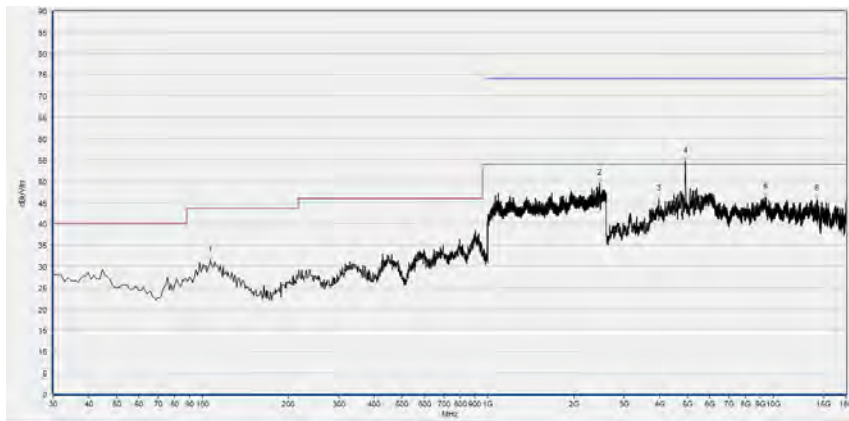
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



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	31.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2464.533	49.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4648.200	48.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4925.400	50.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9086.480	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12988.840	45.81	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	31.35	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2464.533	49.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3979.840	45.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4928.480	54.65	N/A	41.88	74.00	N/A	54.00	Vertical	PASS
9376.000	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14190.040	45.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

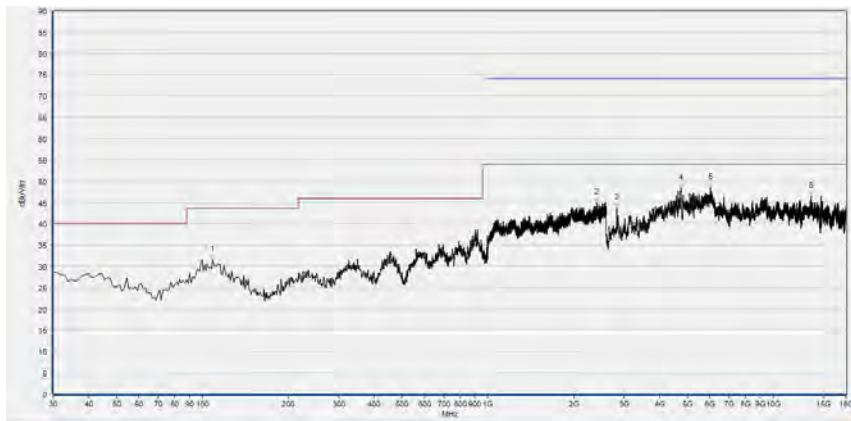
802.11n (HT40) Mode

Plot for Channel 3



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	31.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2414.400	48.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	49.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5877.120	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9274.360	46.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13943.640	45.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

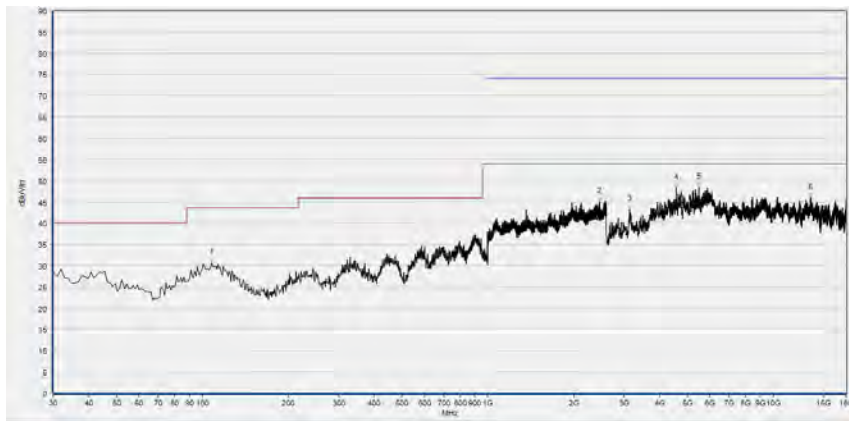
(Antenna Horizontal, 30MHz to 18GHz)



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	31.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2402.133	44.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2827.920	43.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4746.760	48.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6034.200	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13595.600	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

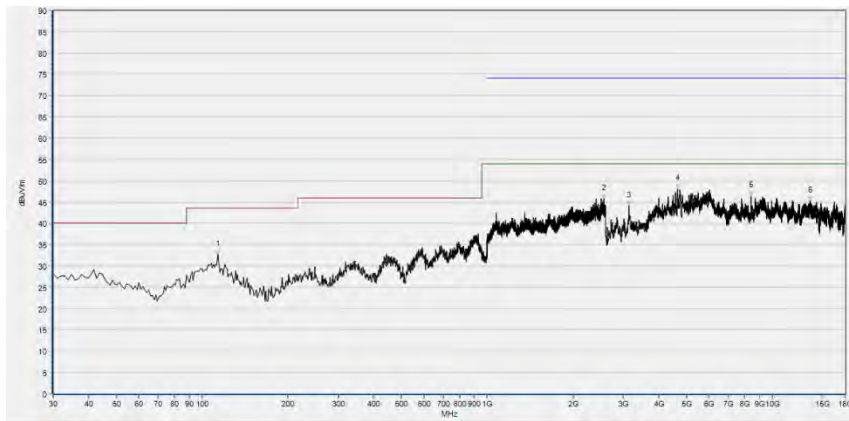
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	30.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2461.867	45.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3132.840	43.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4577.360	48.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5476.720	48.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	45.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

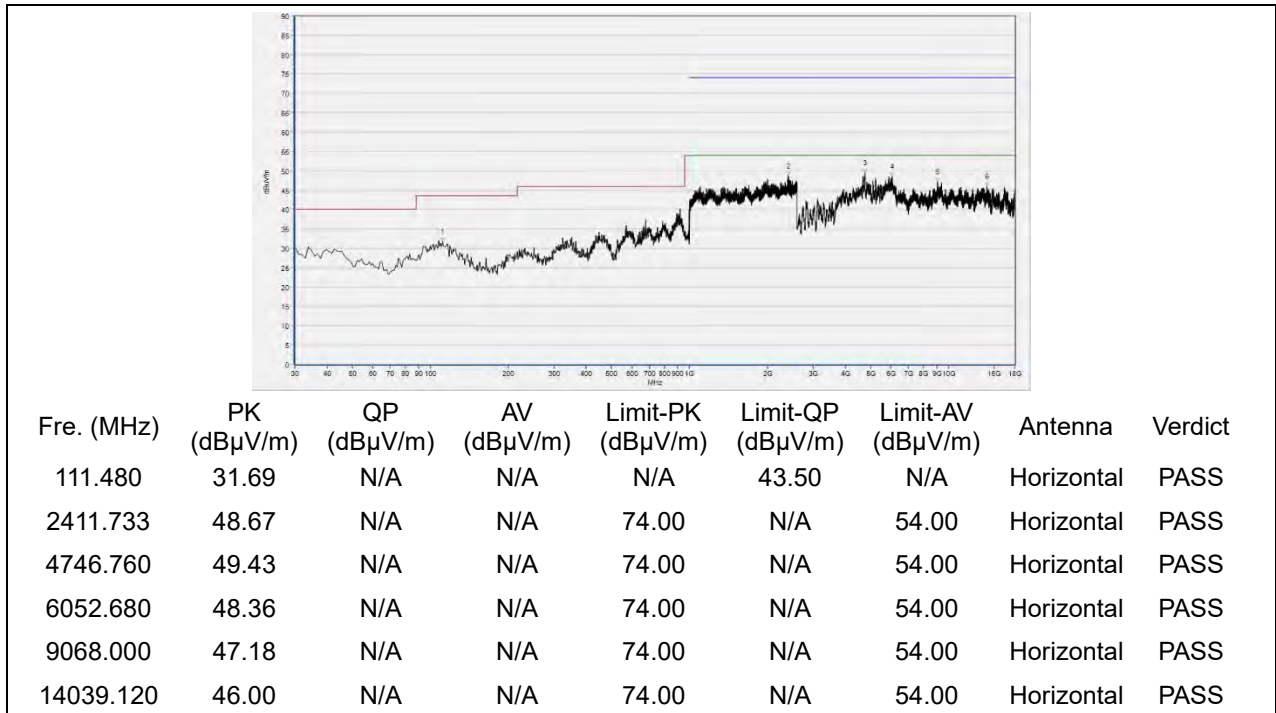
(Antenna Horizontal, 30MHz to 18GHz)



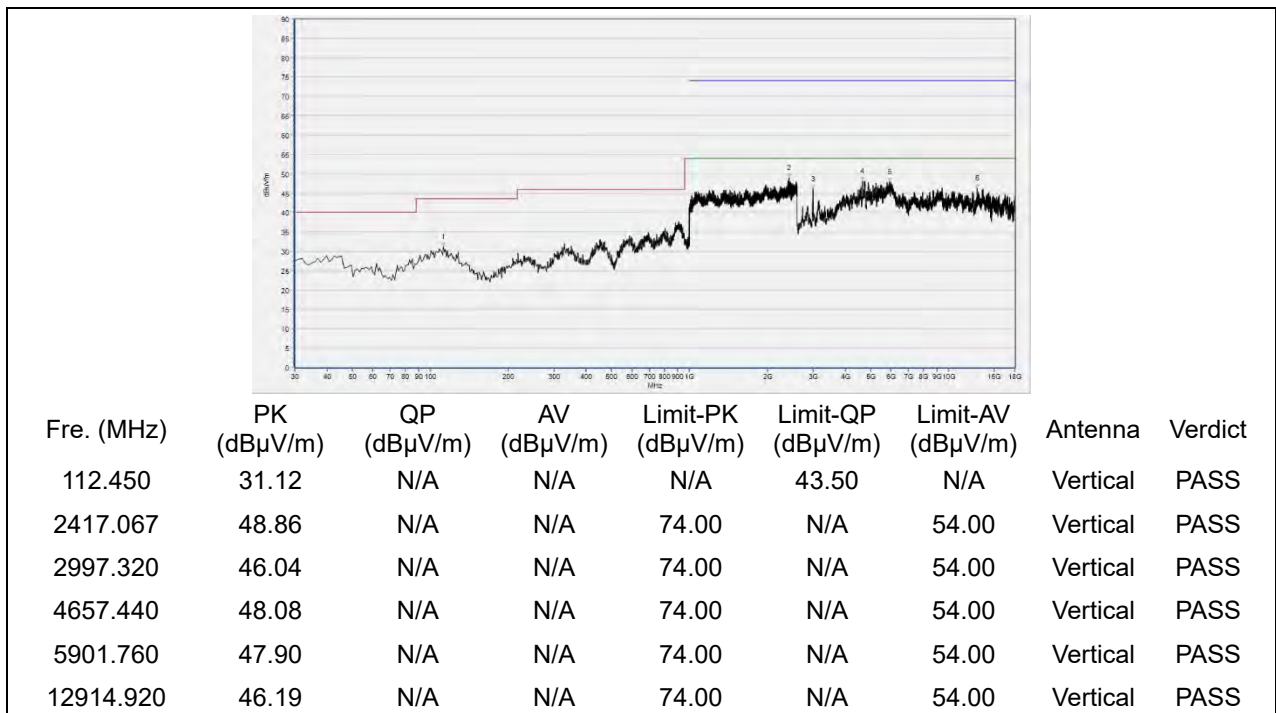
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2571.733	45.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3145.160	44.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4648.200	48.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8418.120	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13570.960	45.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————