

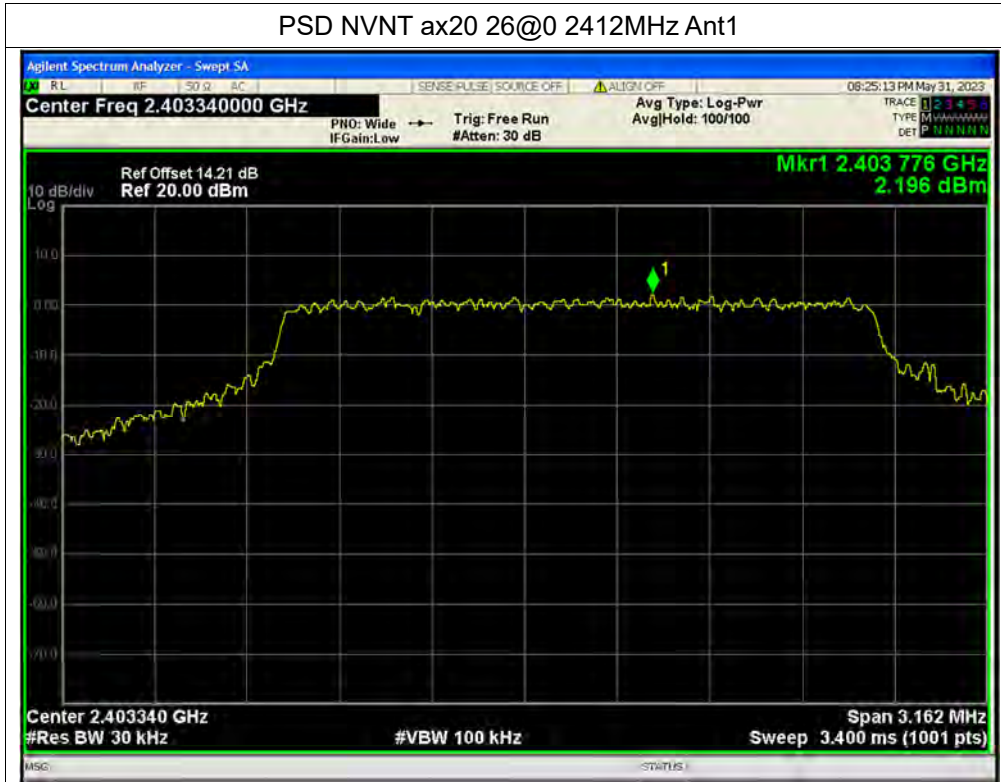
PSD NVNT ax40 2452MHz Ant1



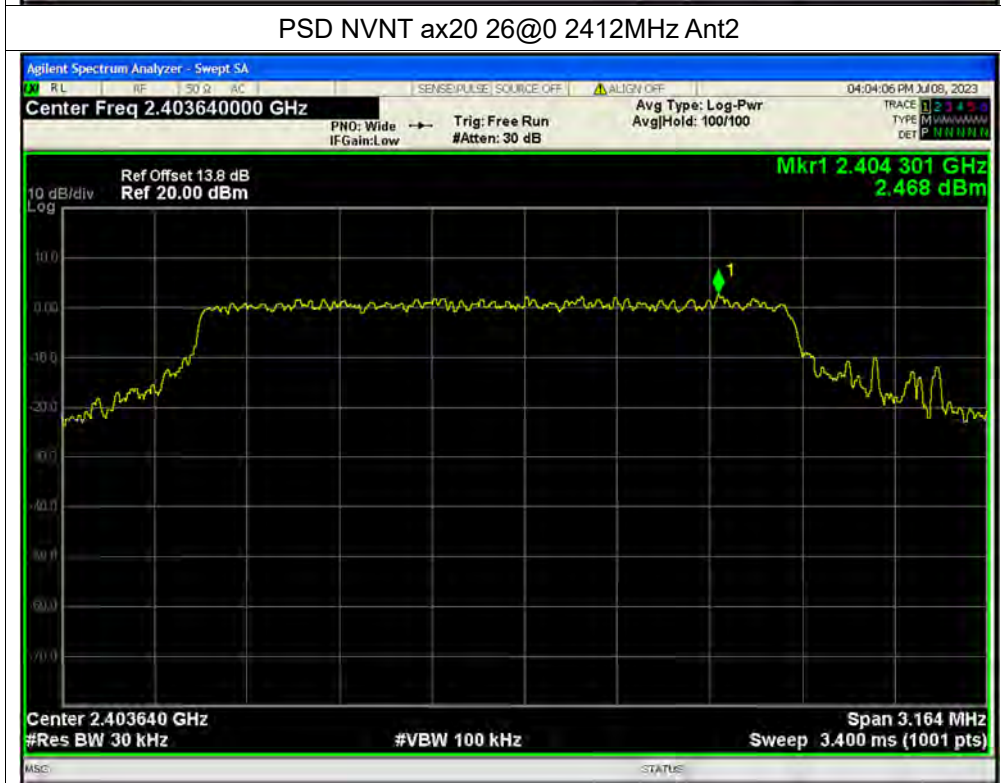
PSD NVNT ax40 2452MHz Ant2



PSD NVNT ax20 26@0 2412MHz Ant1



PSD NVNT ax20 26@0 2412MHz Ant2





PSD NVNT ax20 26@0 2412MHz Ant1



PSD NVNT ax20 26@0 2412MHz Ant2





PSD NVNT ax20 26@4 2437MHz Ant1



PSD NVNT ax20 26@4 2437MHz Ant2

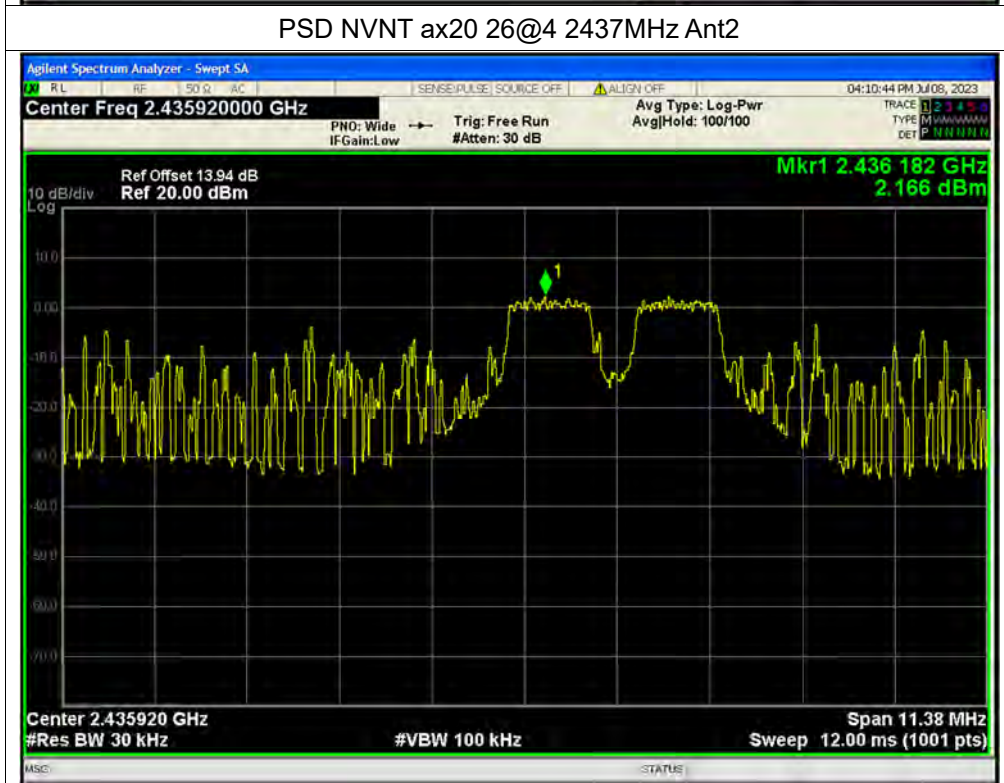




PSD NVNT ax20 26@4 2437MHz Ant1



PSD NVNT ax20 26@4 2437MHz Ant2





PSD NVNT ax20 26@8 2462MHz Ant1

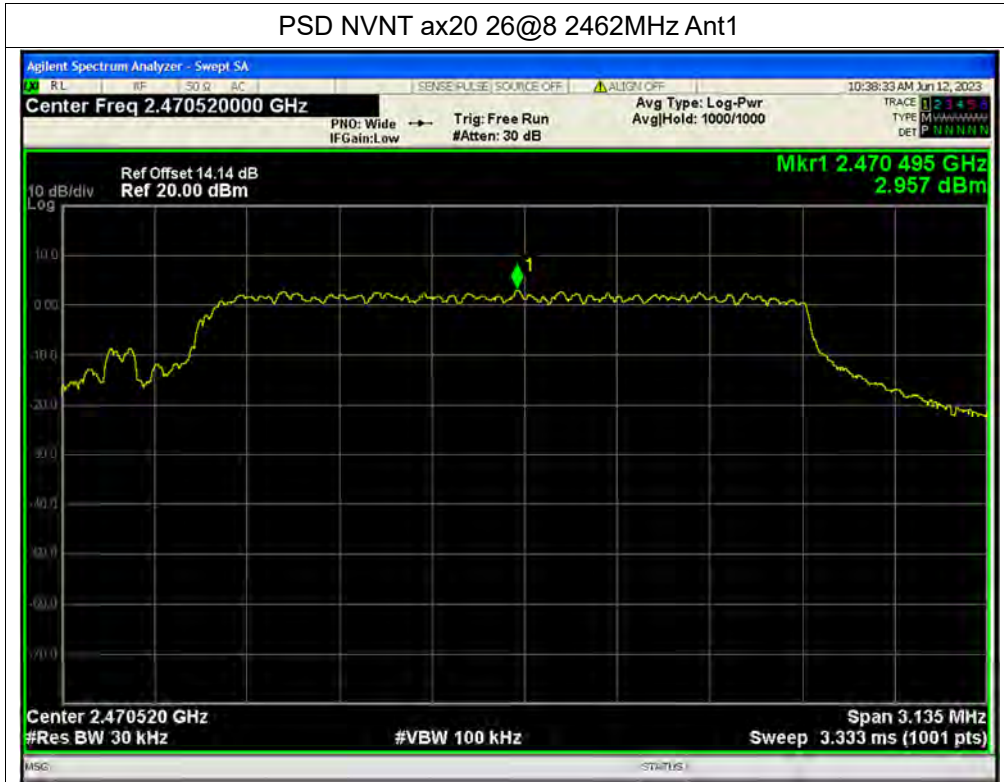


PSD NVNT ax20 26@8 2462MHz Ant2





PSD NVNT ax20 26@8 2462MHz Ant1

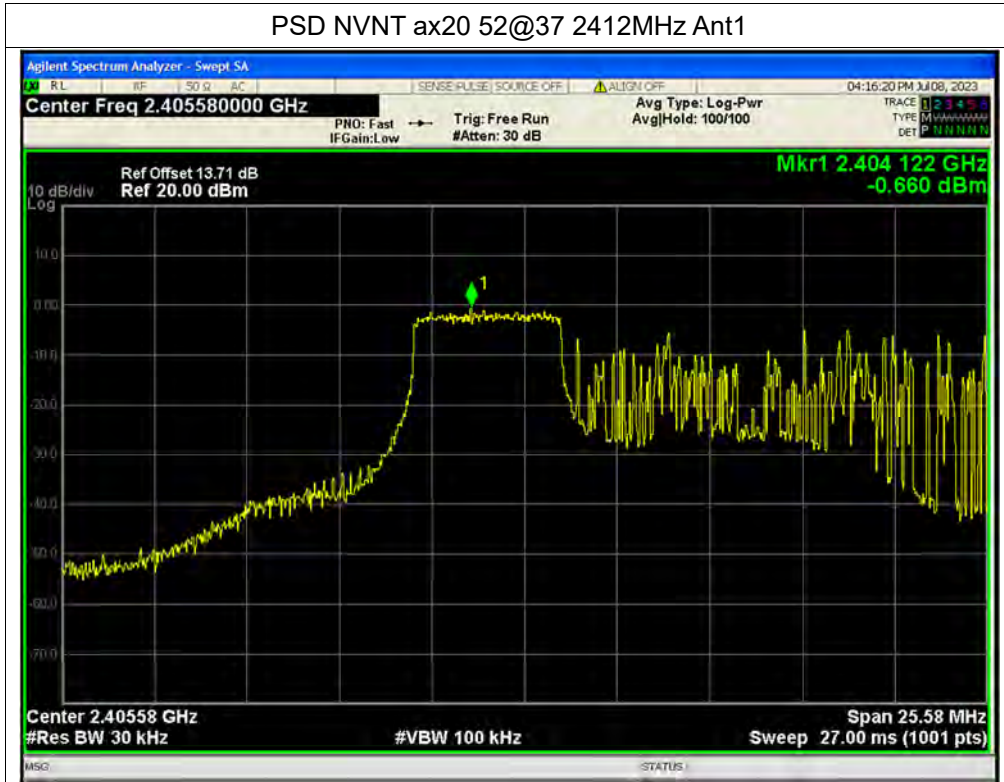


PSD NVNT ax20 26@8 2462MHz Ant2

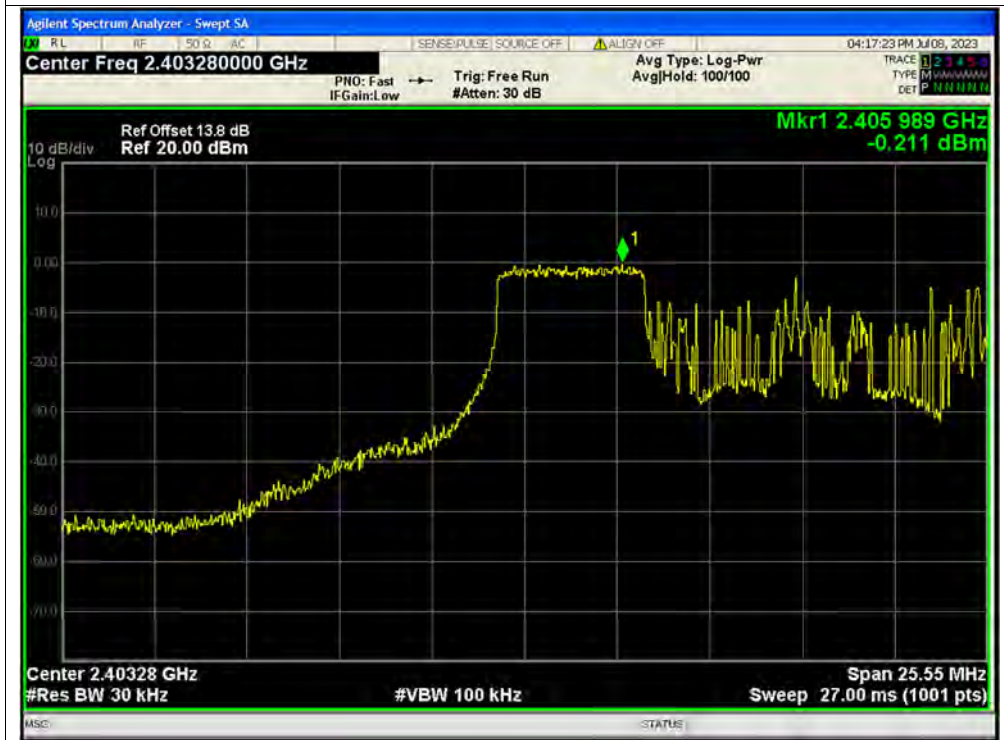




PSD NVNT ax20 52@37 2412MHz Ant1

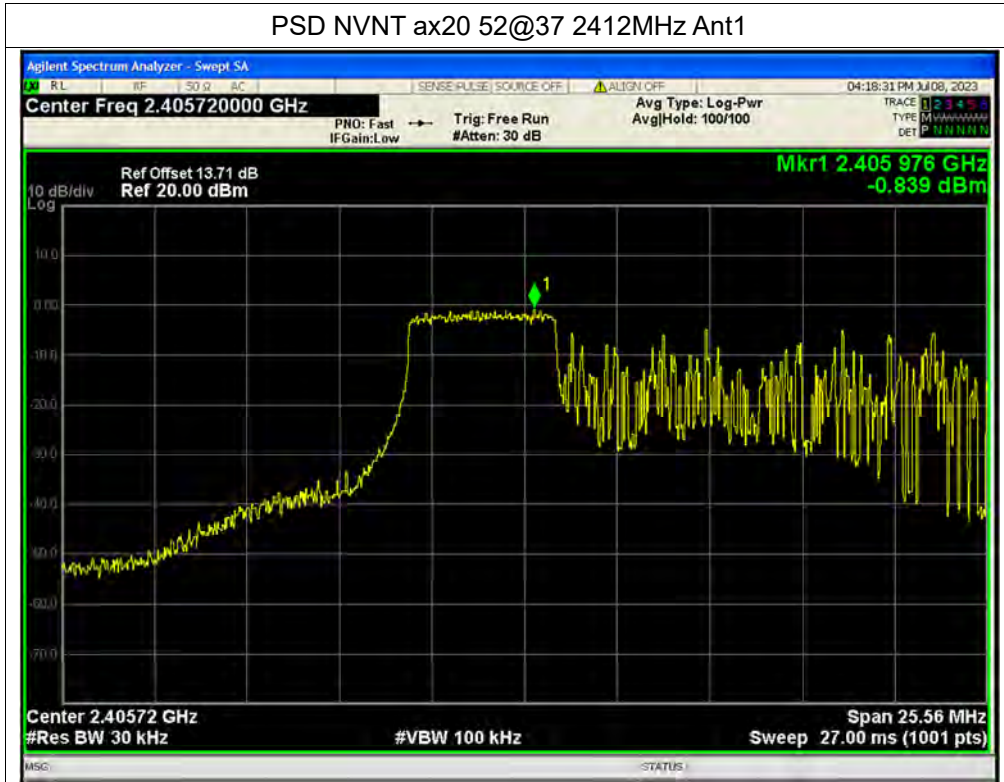


PSD NVNT ax20 52@37 2412MHz Ant2

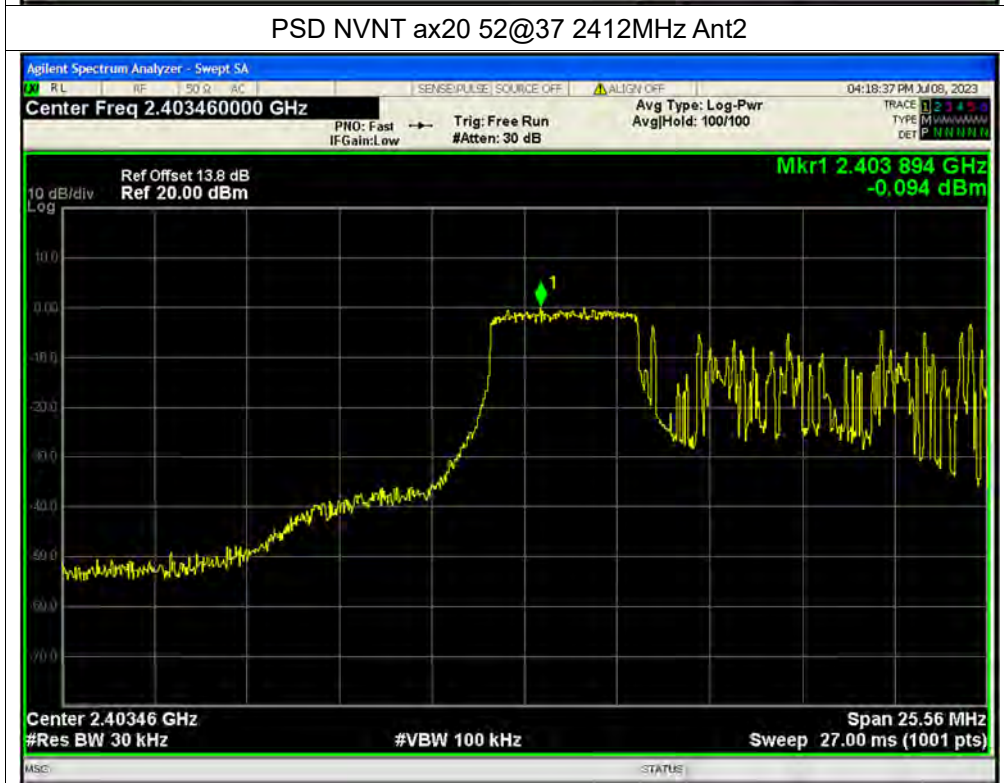




PSD NVNT ax20 52@37 2412MHz Ant1



PSD NVNT ax20 52@37 2412MHz Ant2

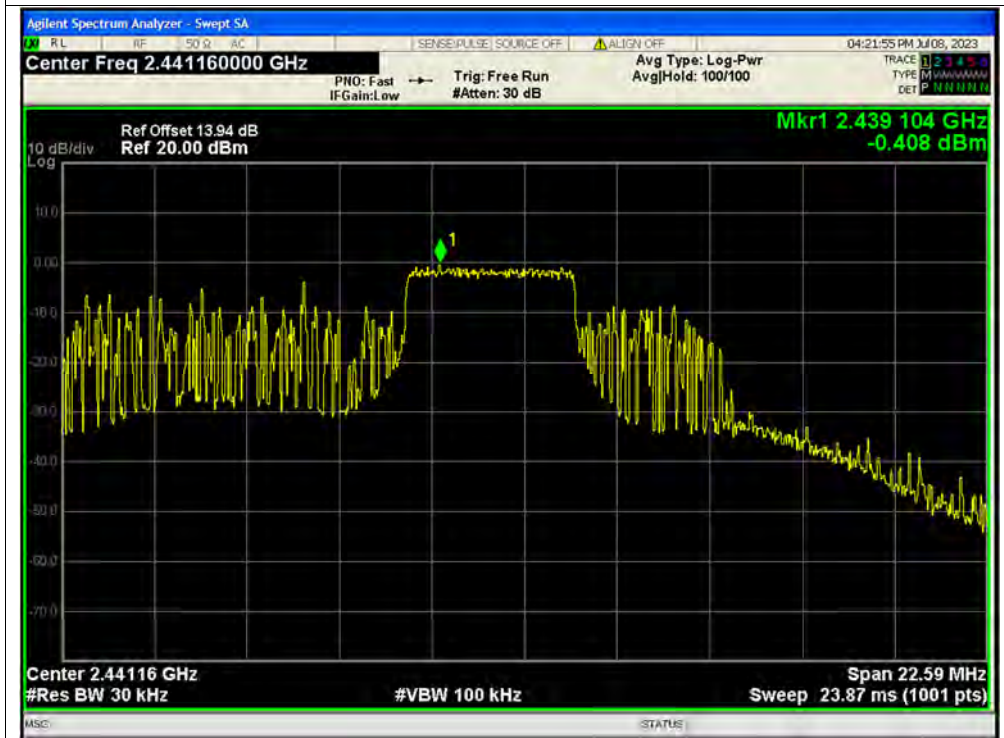




PSD NVNT ax20 52@38 2437MHz Ant1

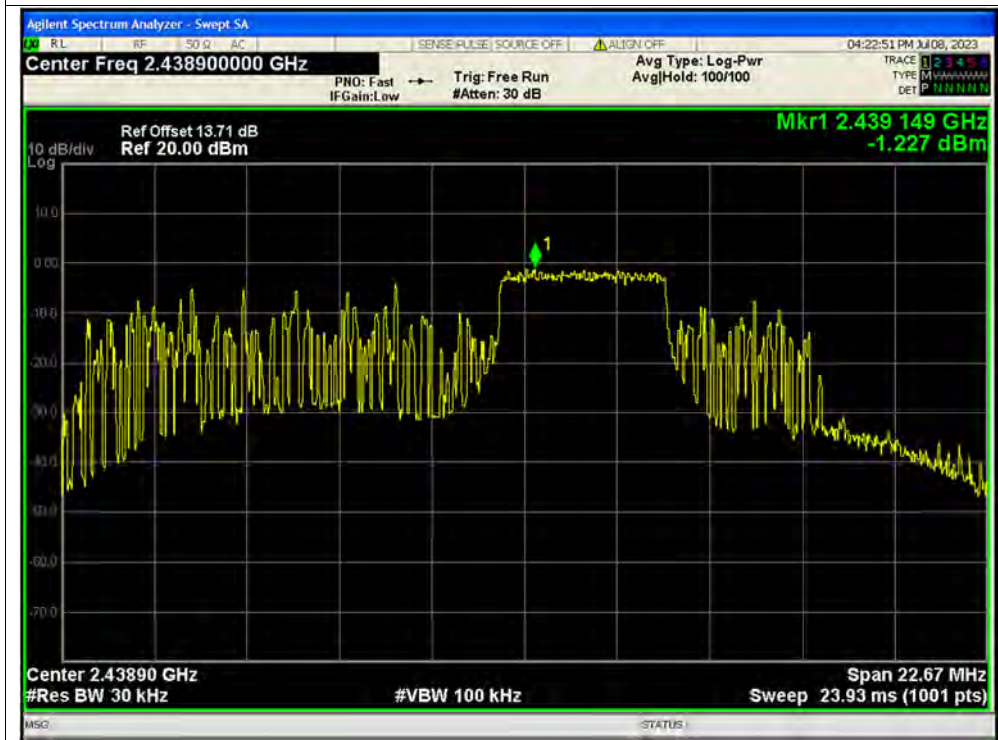


PSD NVNT ax20 52@38 2437MHz Ant2

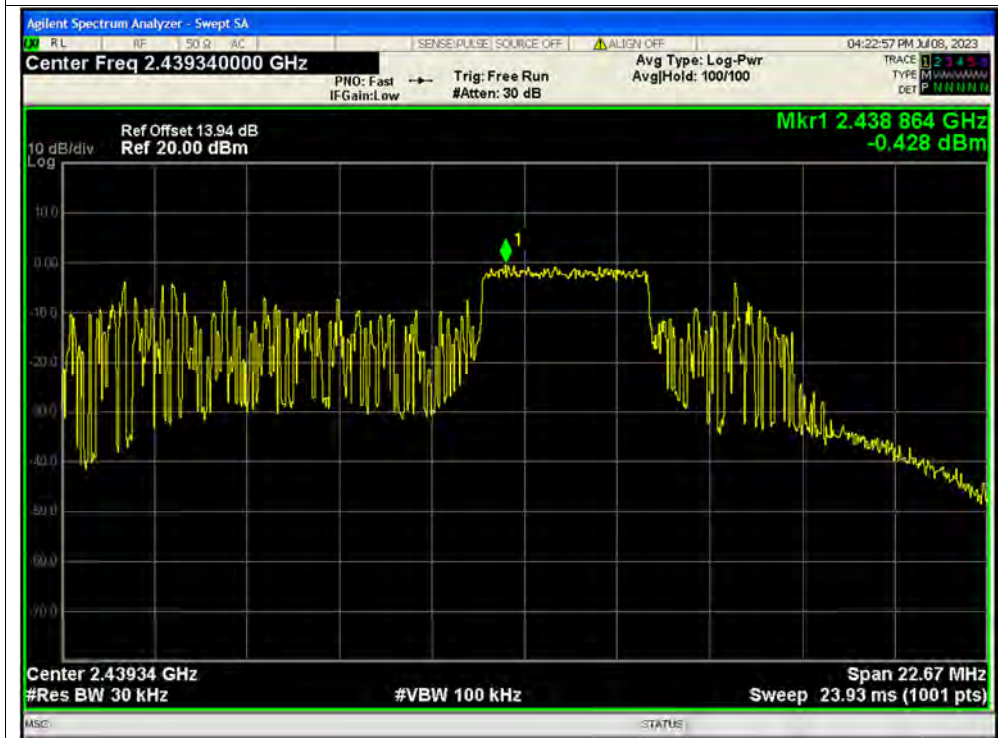




PSD NVNT ax20 52@38 2437MHz Ant1



PSD NVNT ax20 52@38 2437MHz Ant2





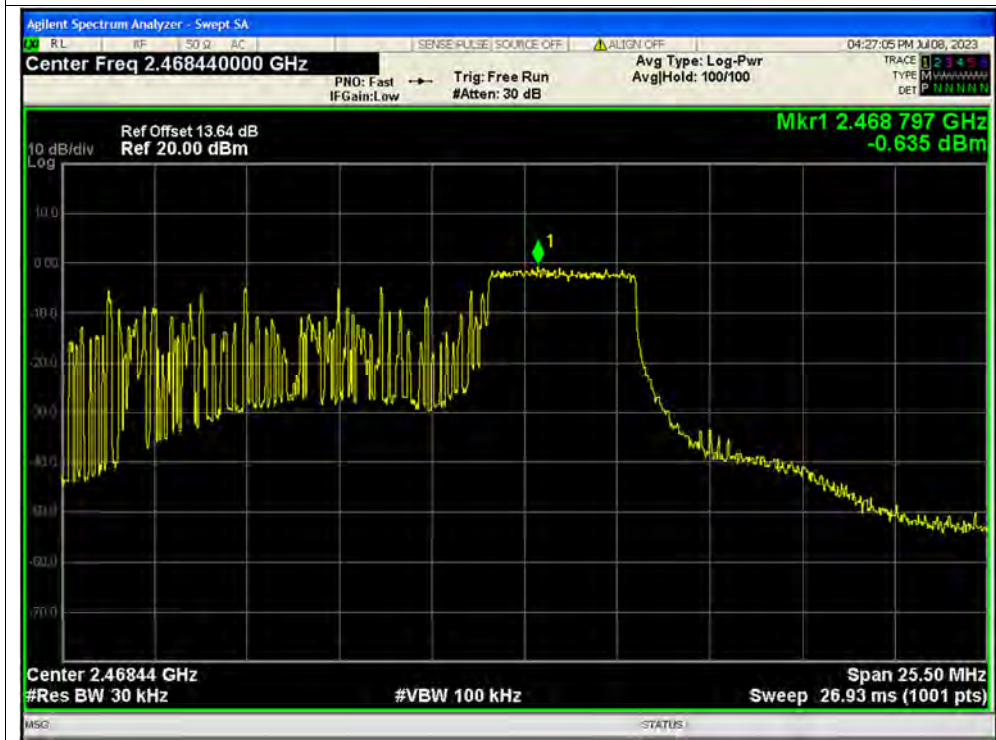
PSD NVNT ax20 52@40 2462MHz Ant1



PSD NVNT ax20 52@40 2462MHz Ant2



PSD NVNT ax20 52@40 2462MHz Ant1



PSD NVNT ax20 52@40 2462MHz Ant2

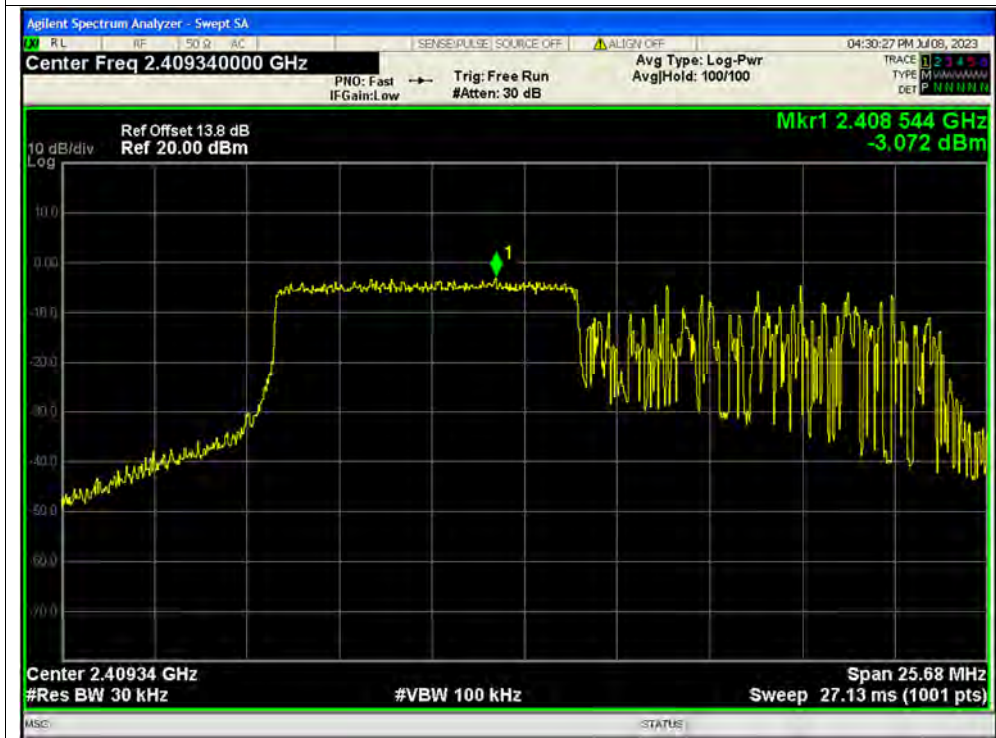




PSD NVNT ax20 106@53 2412MHz Ant1



PSD NVNT ax20 106@53 2412MHz Ant2





PSD NVNT ax20 106@53 2412MHz Ant1



PSD NVNT ax20 106@53 2412MHz Ant2

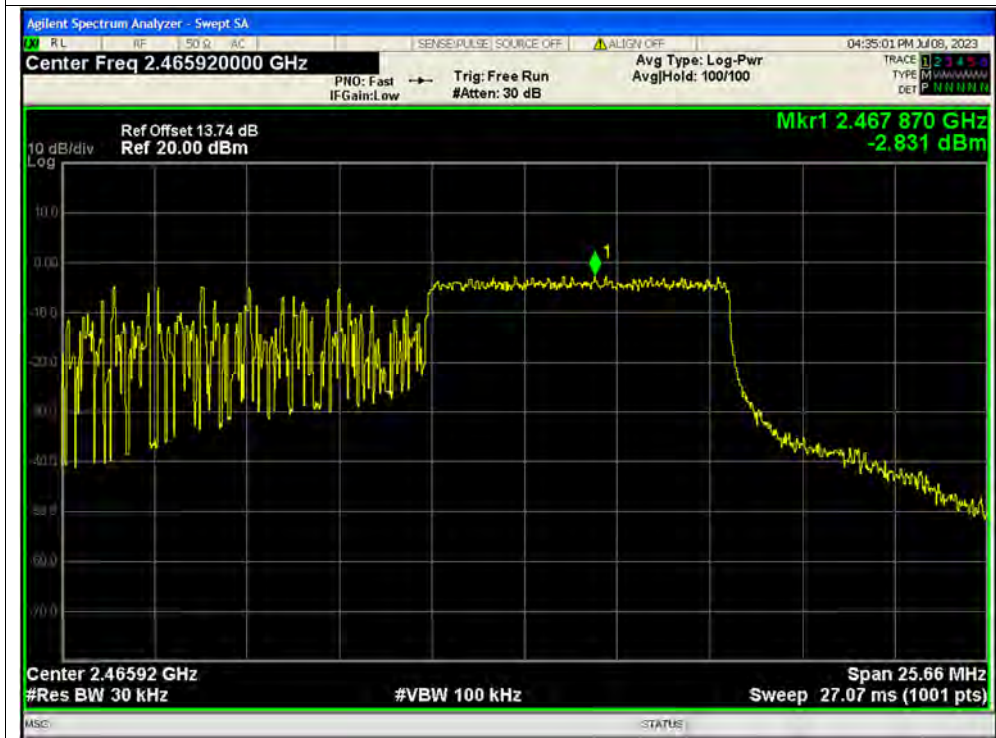




PSD NVNT ax20 106@54 2462MHz Ant1



PSD NVNT ax20 106@54 2462MHz Ant2

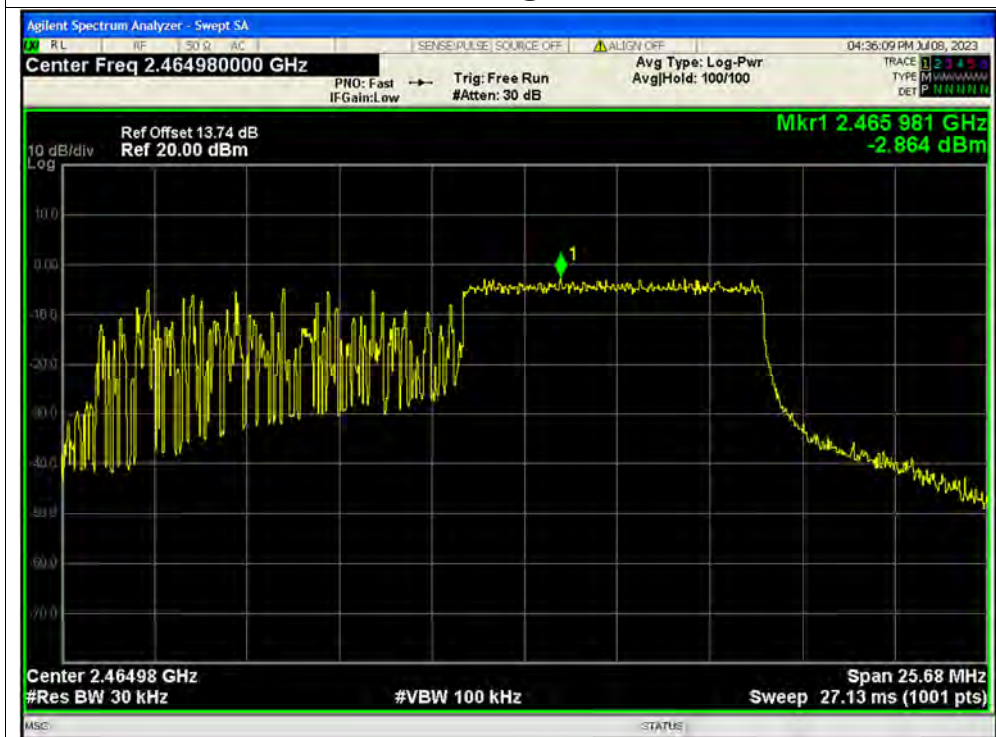




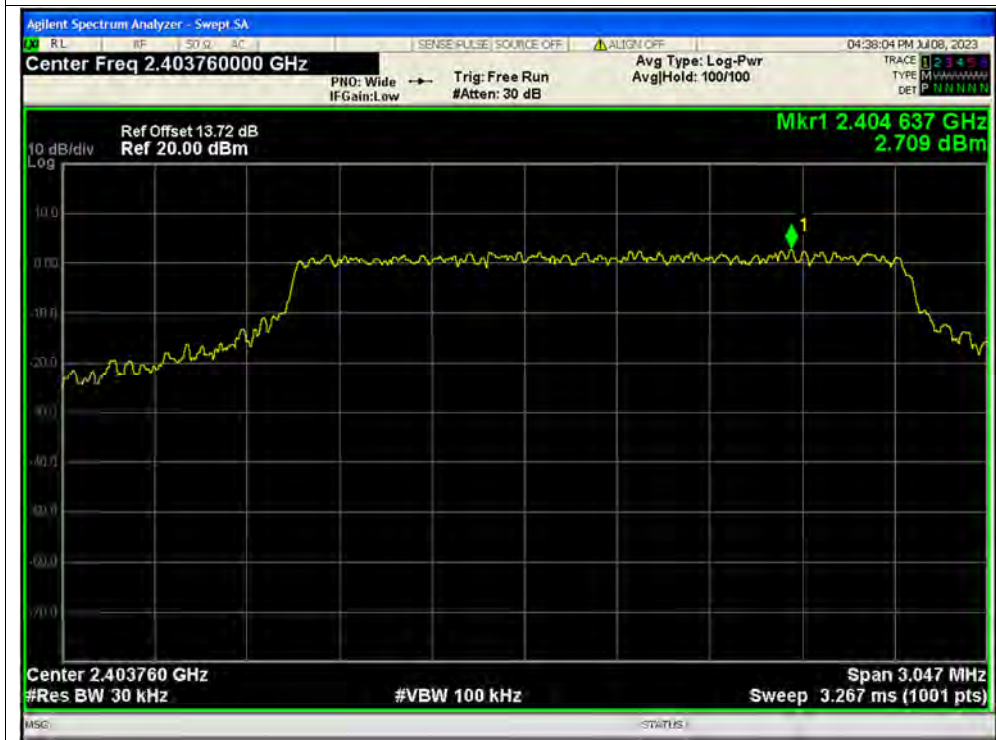
PSD NVNT ax20 106@54 2462MHz Ant1



PSD NVNT ax20 106@54 2462MHz Ant2



PSD NVNT ax40 26@0 2422MHz Ant1



PSD NVNT ax40 26@0 2422MHz Ant2





PSD NVNT ax40 26@0 2422MHz Ant1



PSD NVNT ax40 26@0 2422MHz Ant2





PSD NVNT ax40 26@8 2437MHz Ant1



PSD NVNT ax40 26@8 2437MHz Ant2





PSD NVNT ax40 26@8 2437MHz Ant1

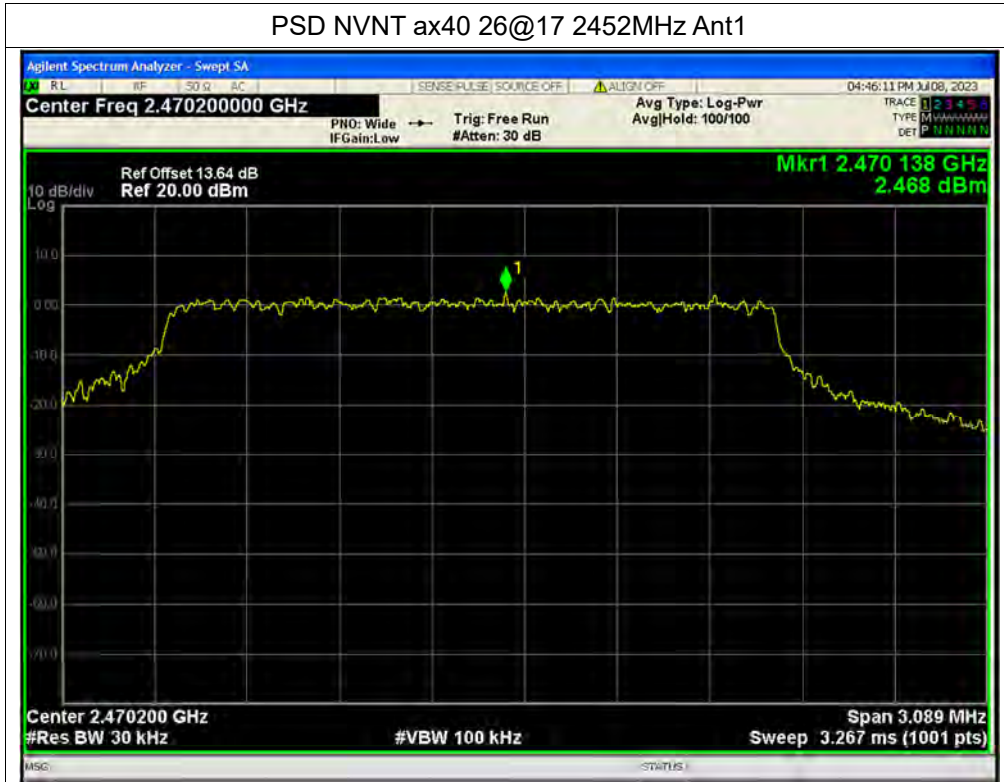


PSD NVNT ax40 26@8 2437MHz Ant2

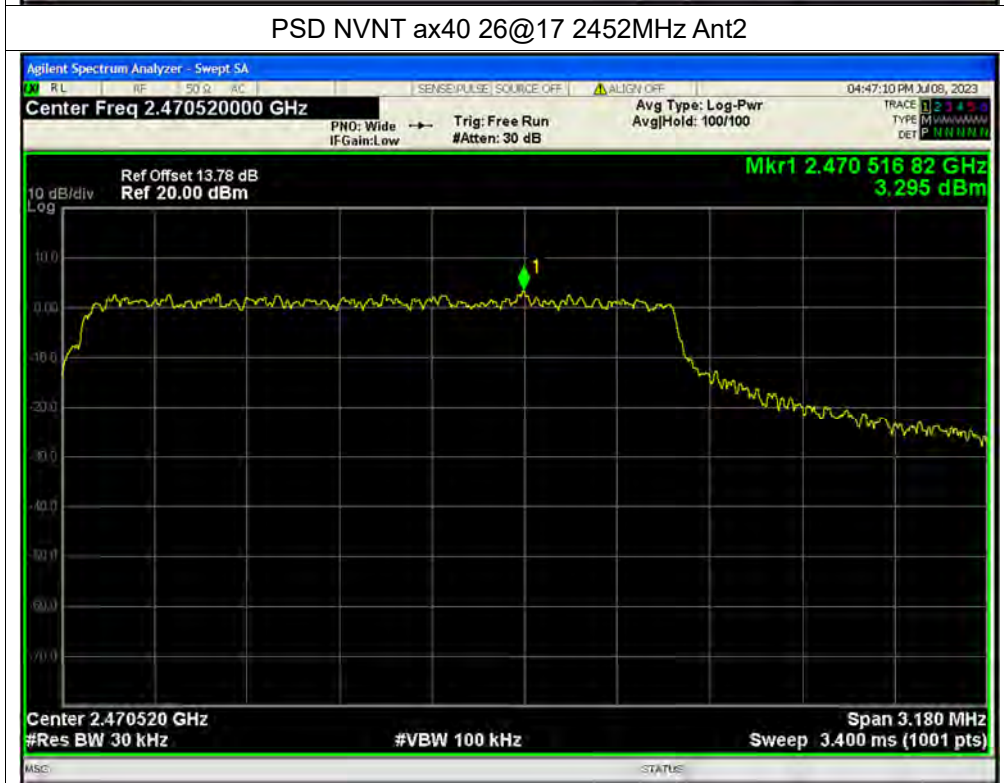




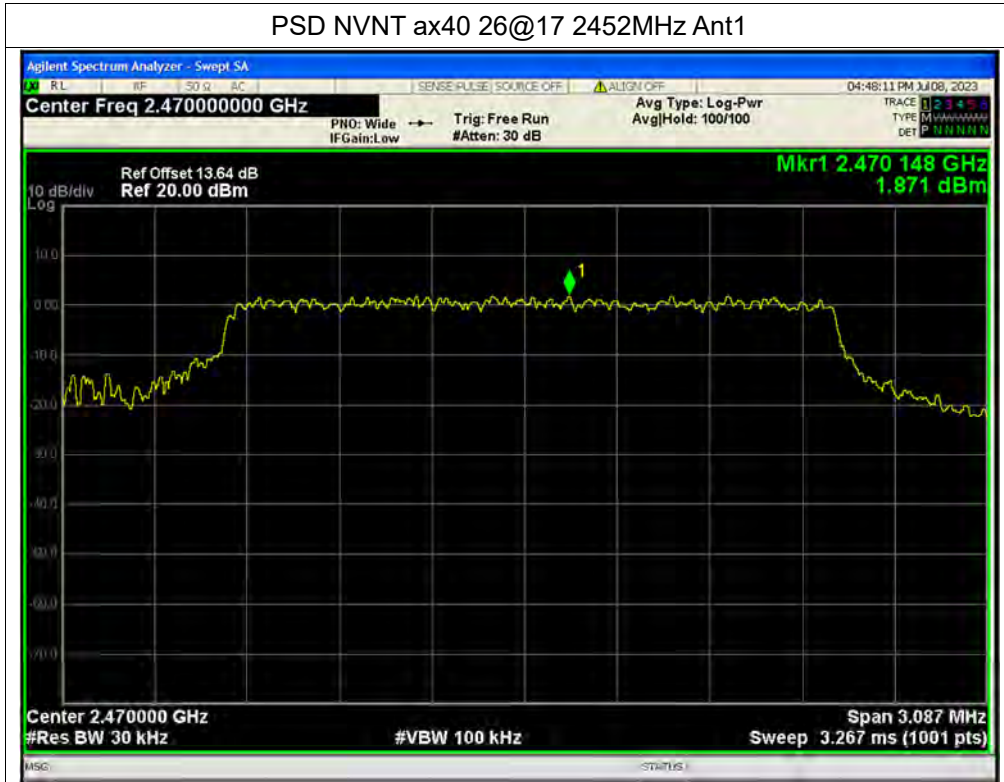
PSD NVNT ax40 26@17 2452MHz Ant1



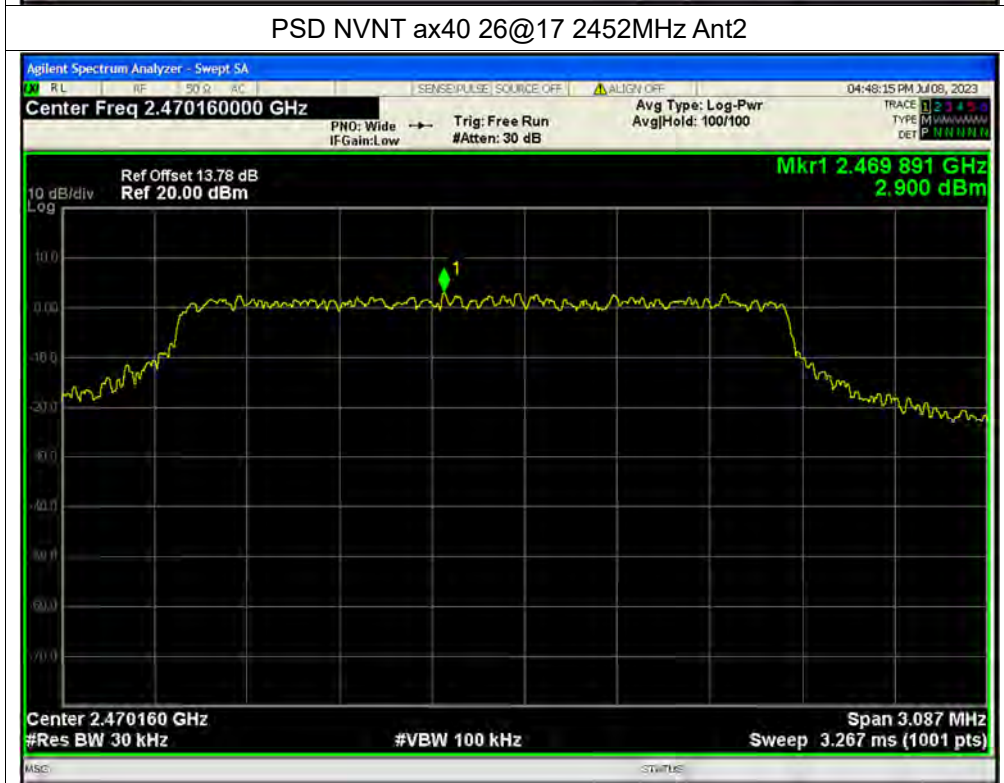
PSD NVNT ax40 26@17 2452MHz Ant2



PSD NVNT ax40 26@17 2452MHz Ant1

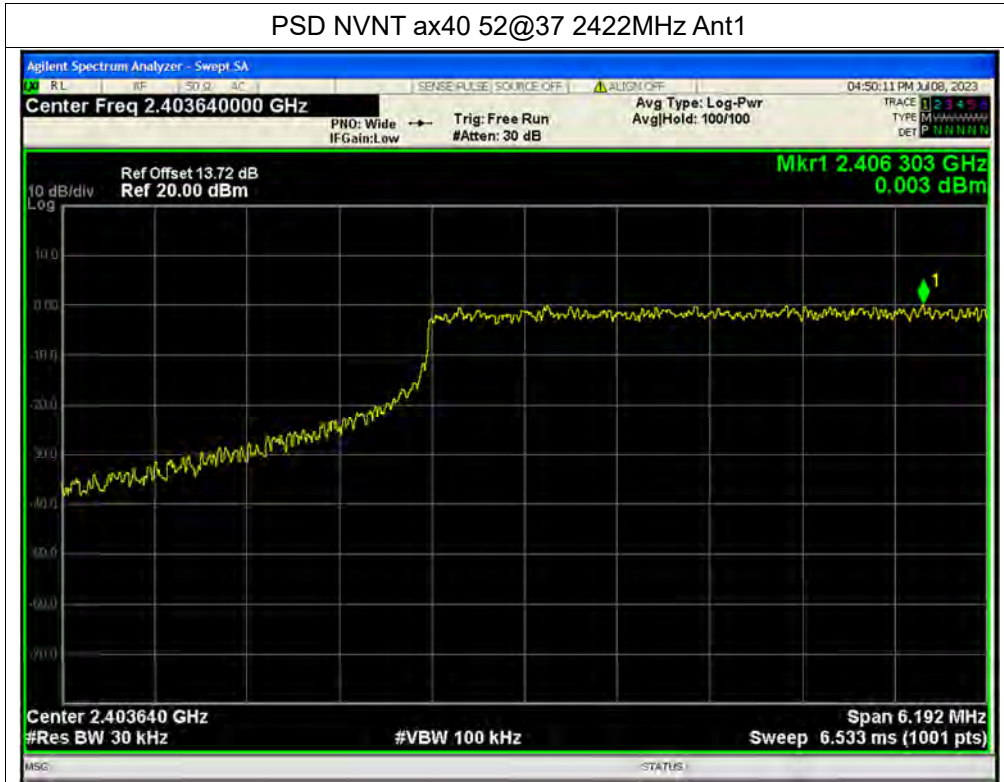


PSD NVNT ax40 26@17 2452MHz Ant2





PSD NVNT ax40 52@37 2422MHz Ant1

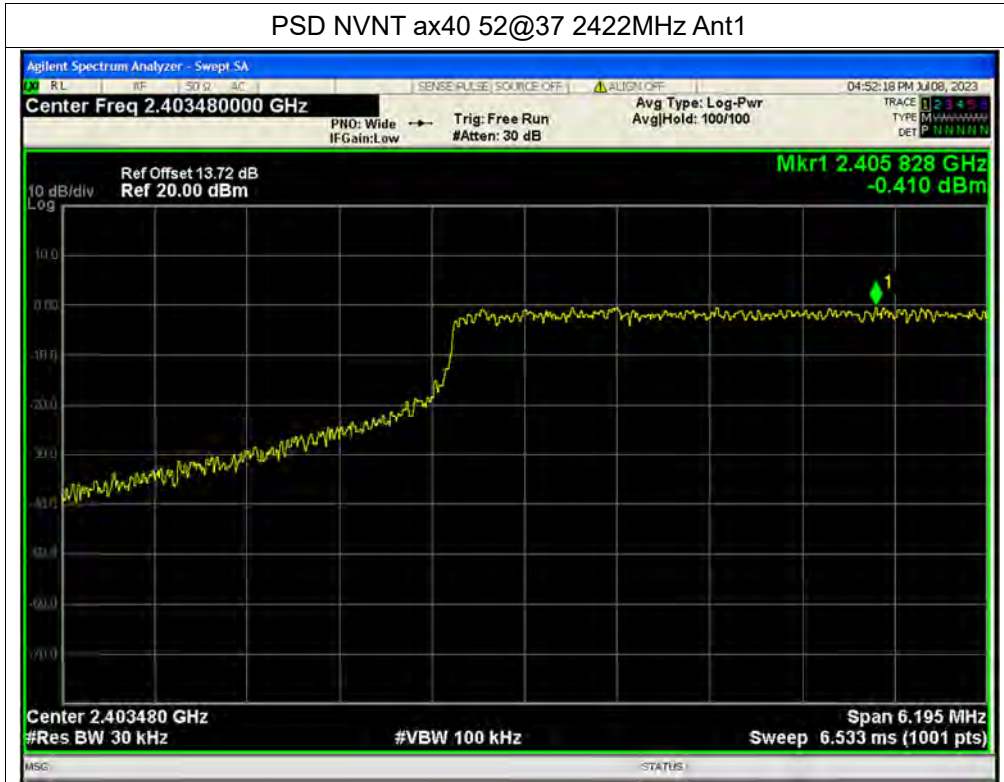


PSD NVNT ax40 52@37 2422MHz Ant2

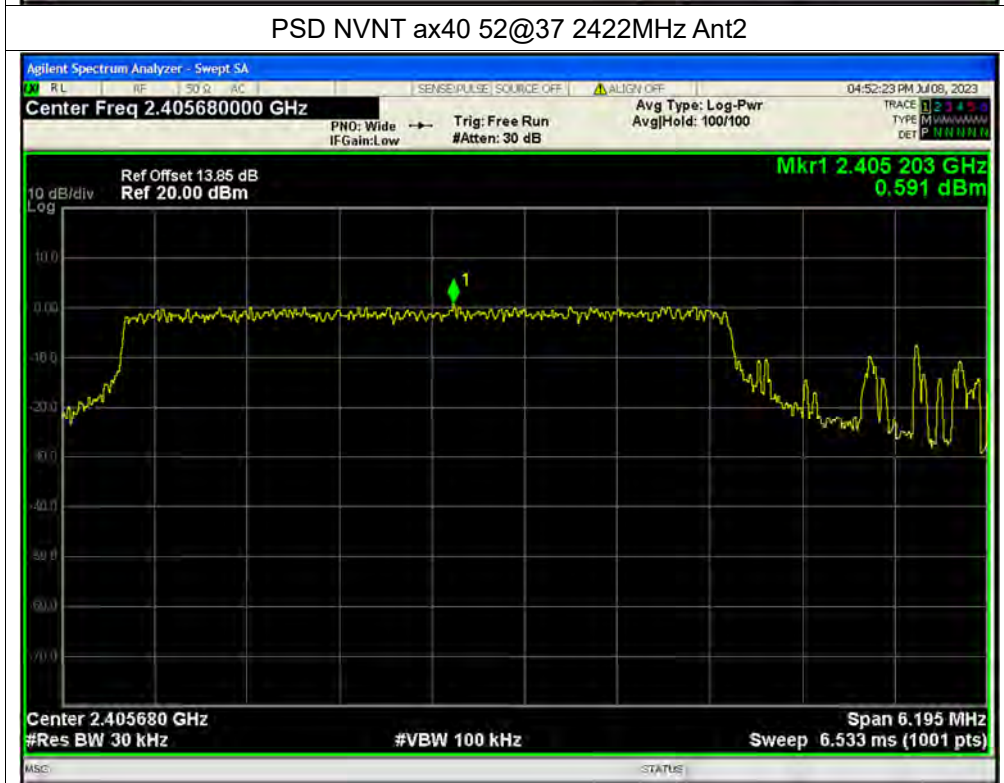




PSD NVNT ax40 52@37 2422MHz Ant1



PSD NVNT ax40 52@37 2422MHz Ant2

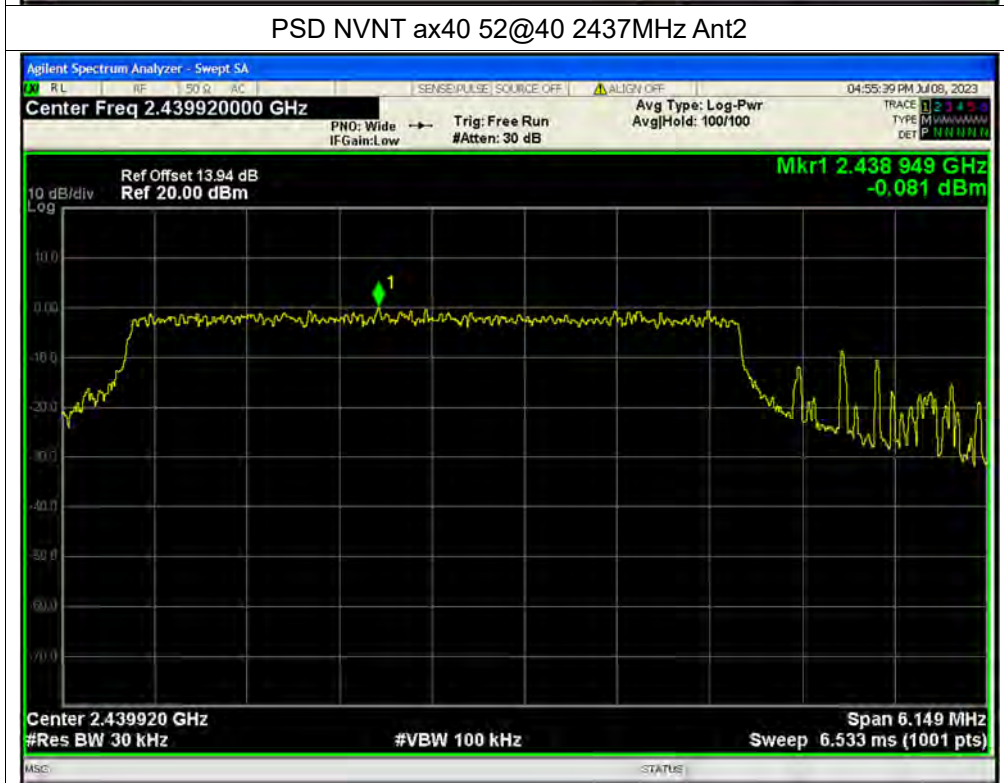




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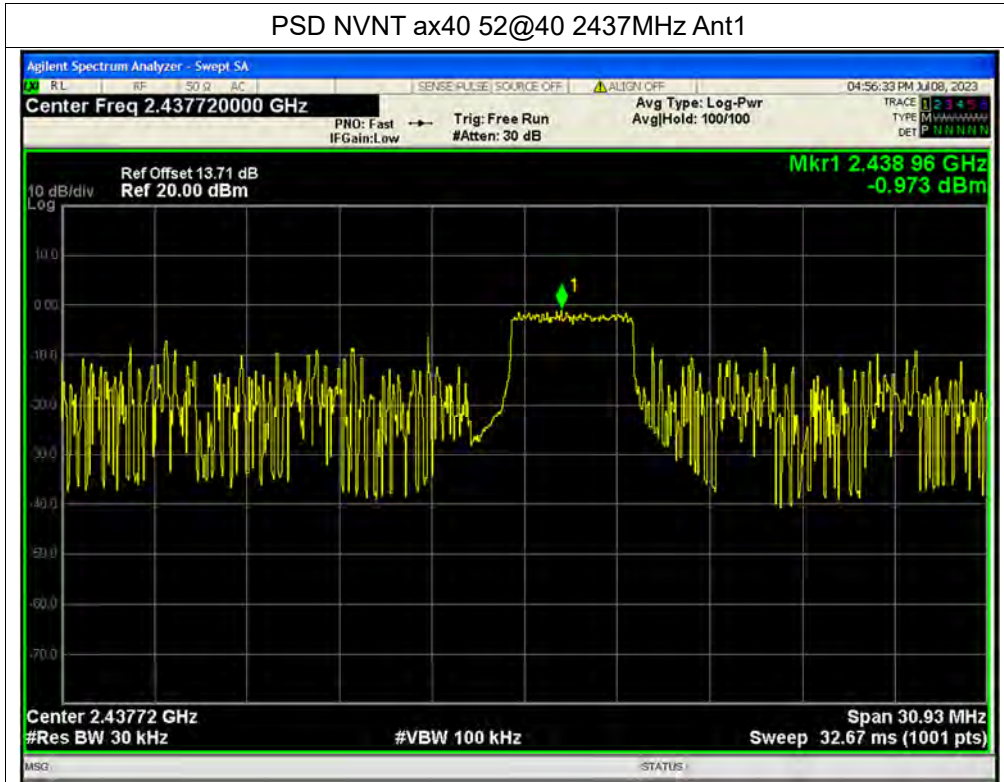


PSD NVNT ax40 52@40 2437MHz Ant2





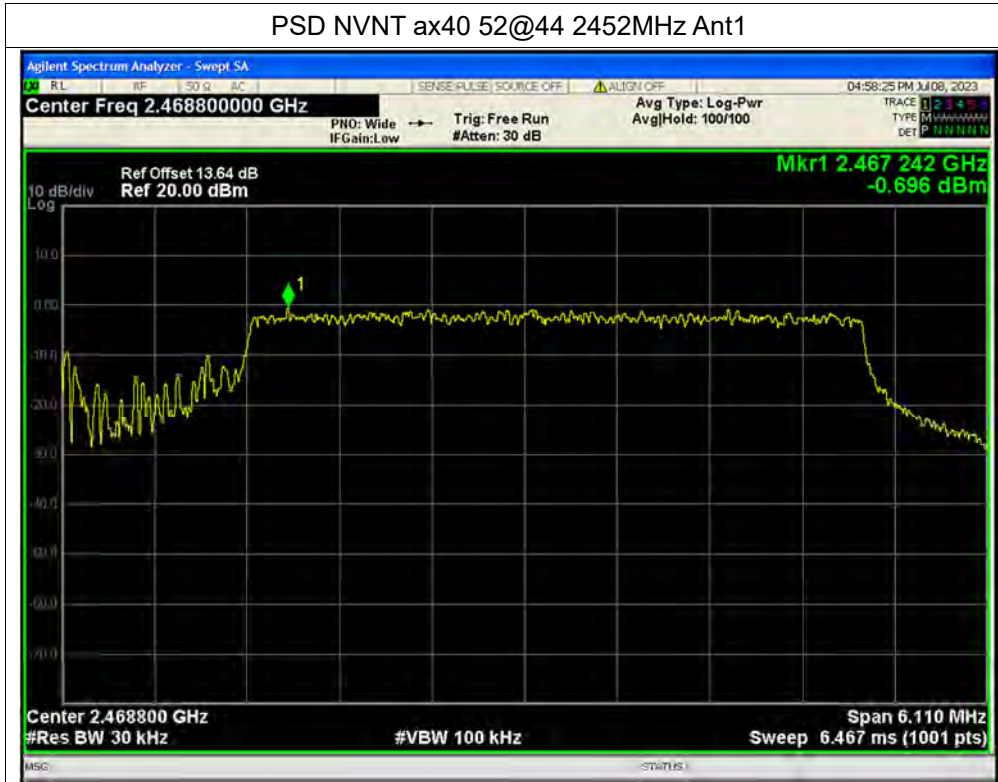
PSD NVNT ax40 52@40 2437MHz Ant1



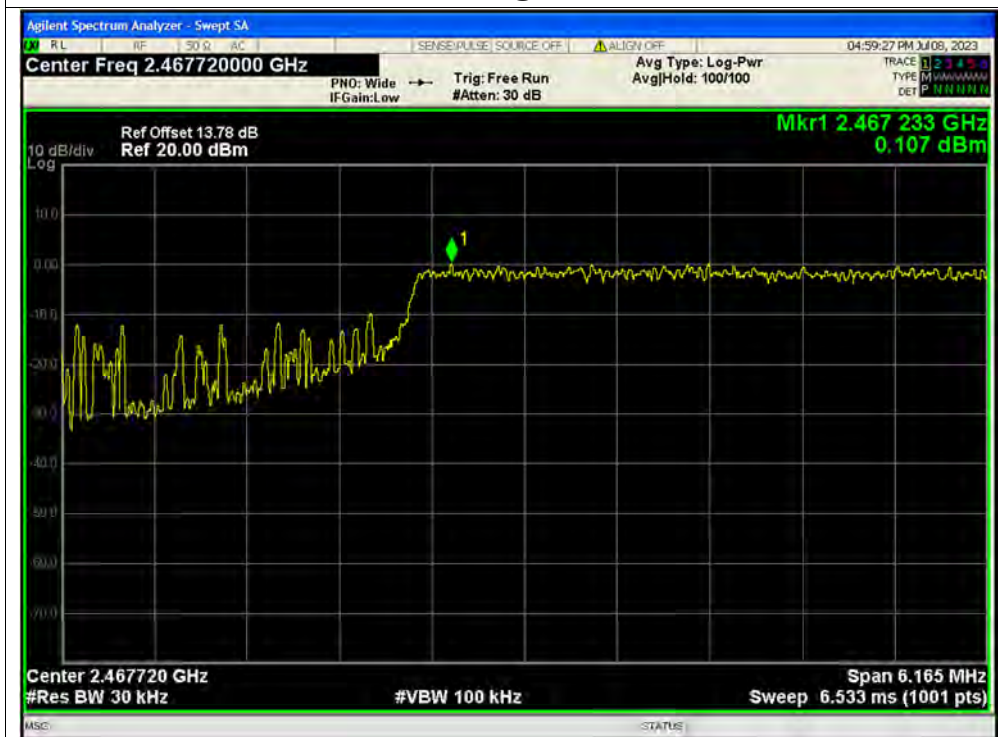
PSD NVNT ax40 52@40 2437MHz Ant2



PSD NVNT ax40 52@44 2452MHz Ant1



PSD NVNT ax40 52@44 2452MHz Ant2





PSD NVNT ax40 52@44 2452MHz Ant1

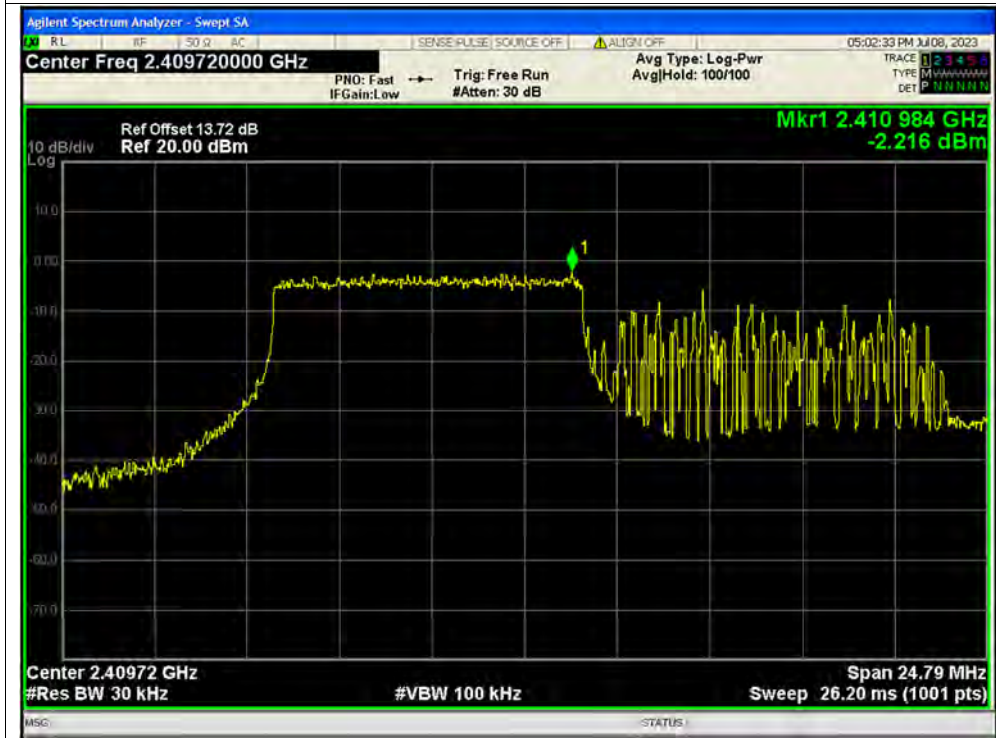


PSD NVNT ax40 52@44 2452MHz Ant2

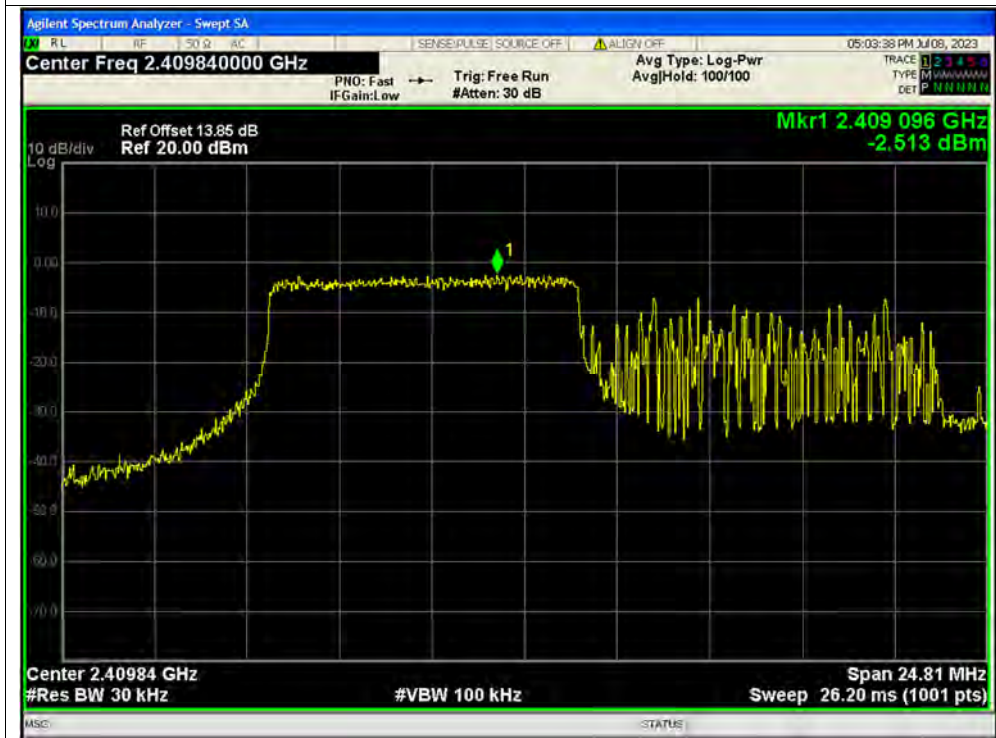




PSD NVNT ax40 106@53 2422MHz Ant1

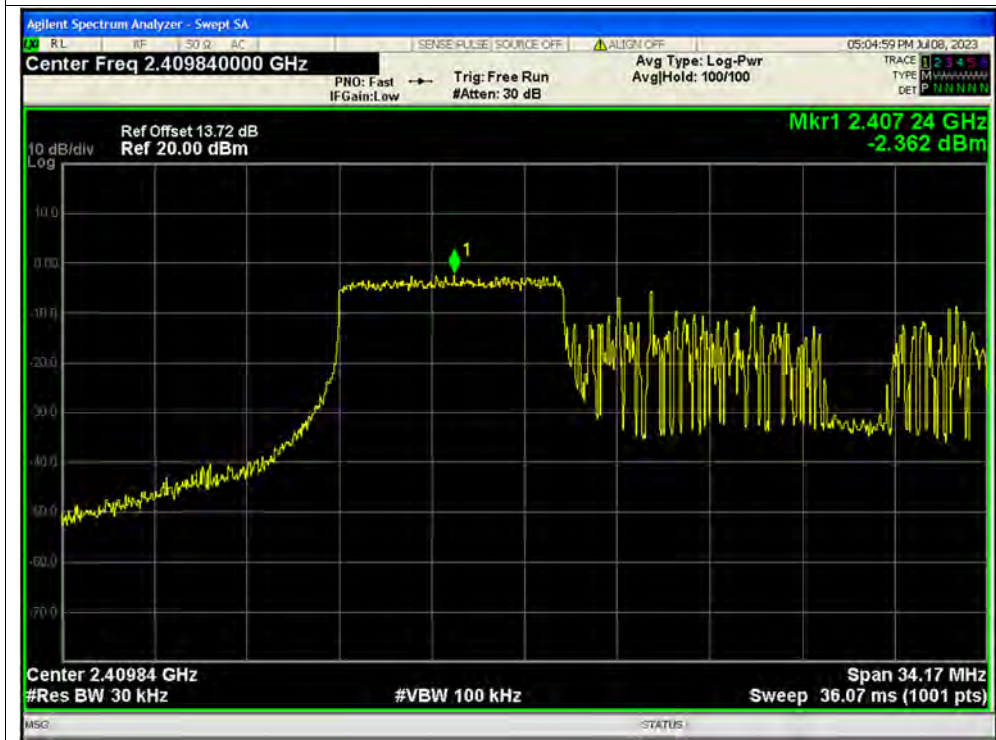


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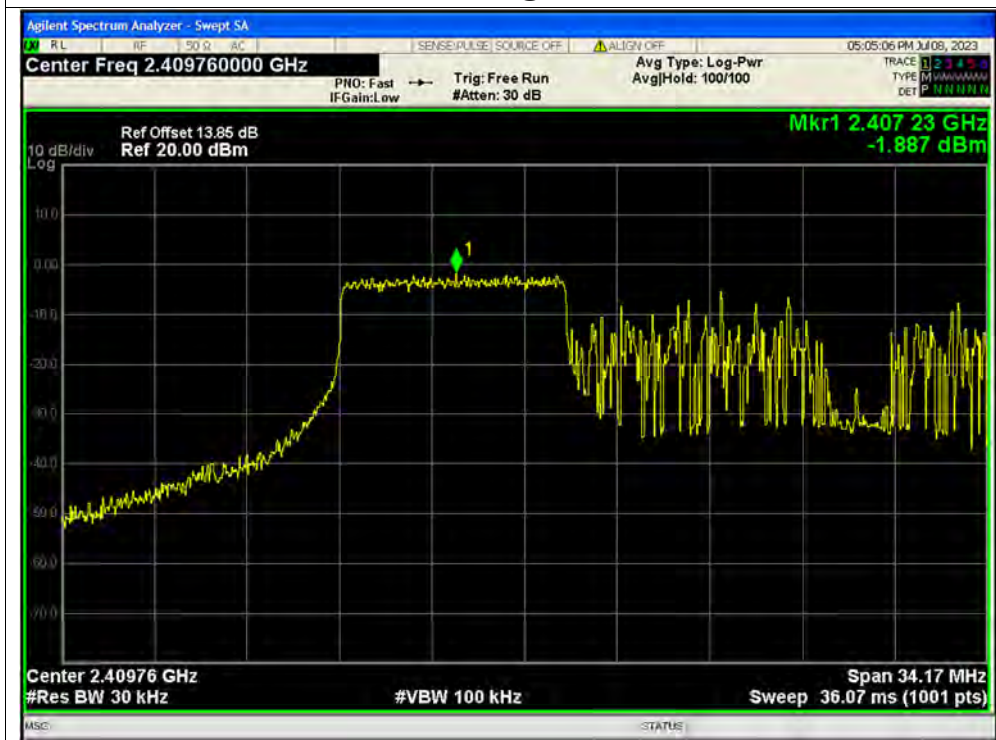




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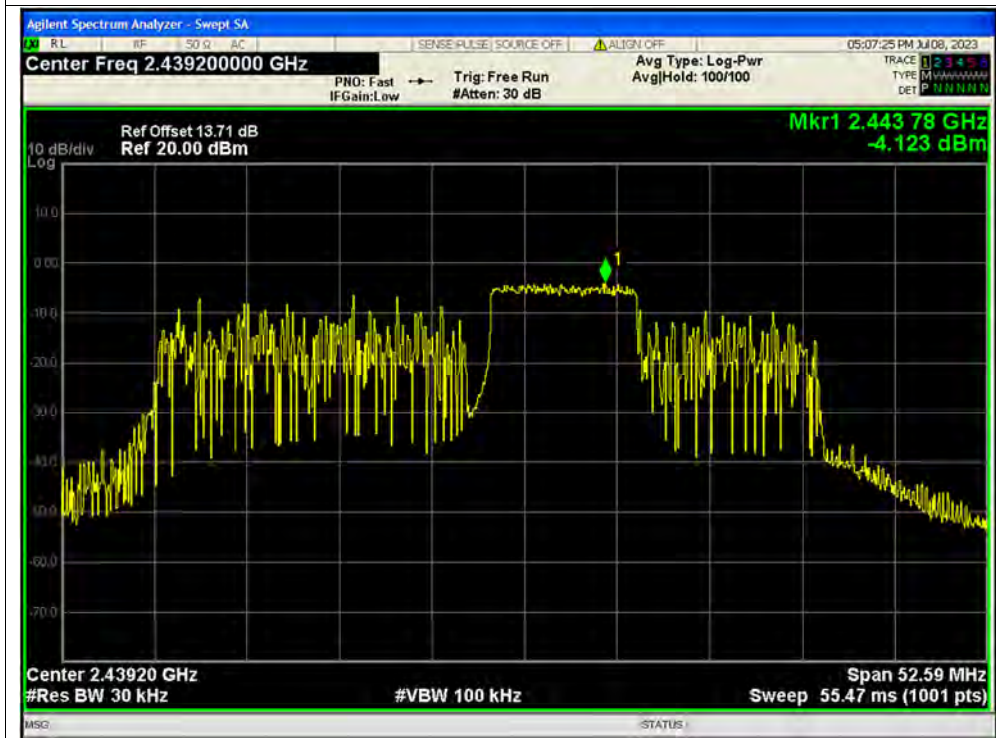


PSD NVNT ax40 106@53 2422MHz Ant2





PSD NVNT ax40 106@54 2437MHz Ant1

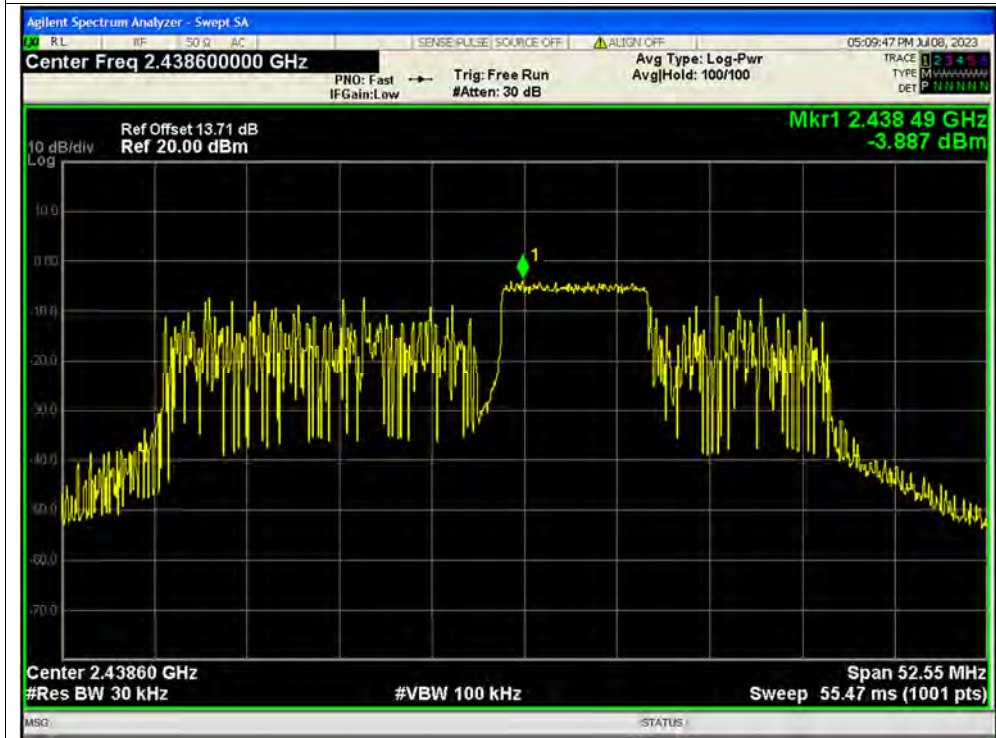


PSD NVNT ax40 106@54 2437MHz Ant2

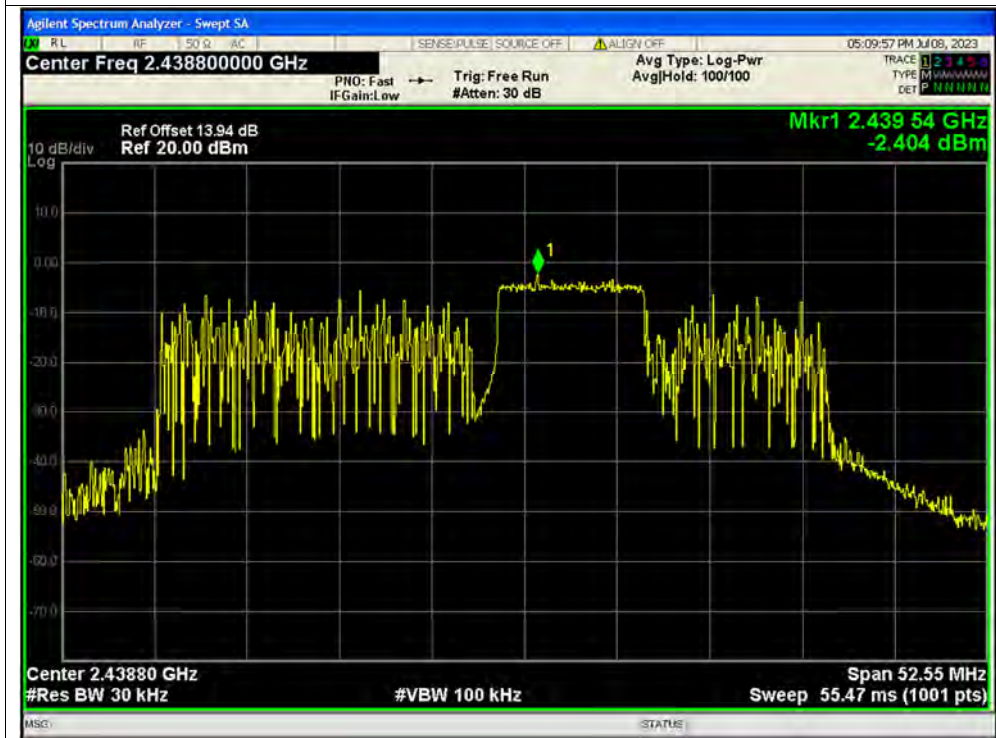




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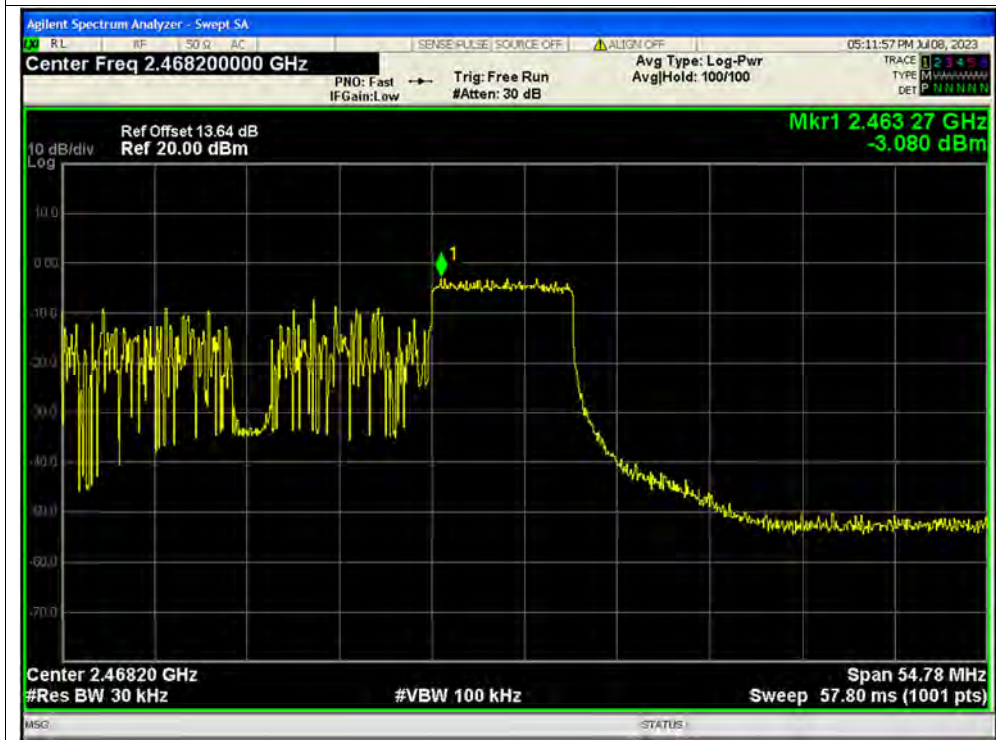


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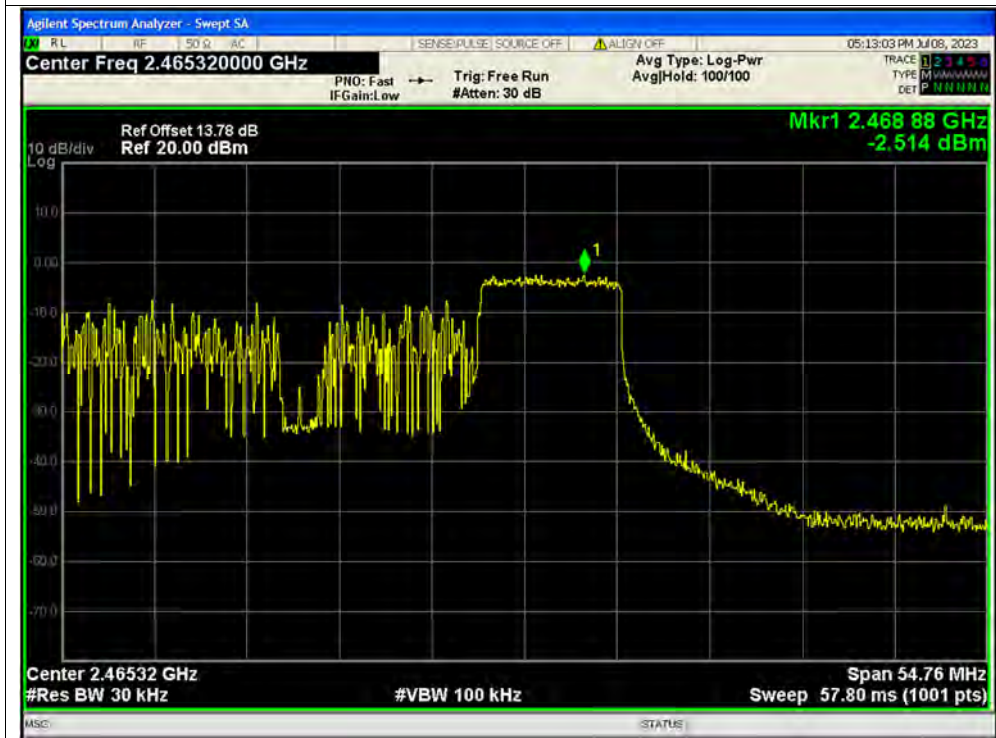




PSD NVNT ax40 106@56 2452MHz Ant1

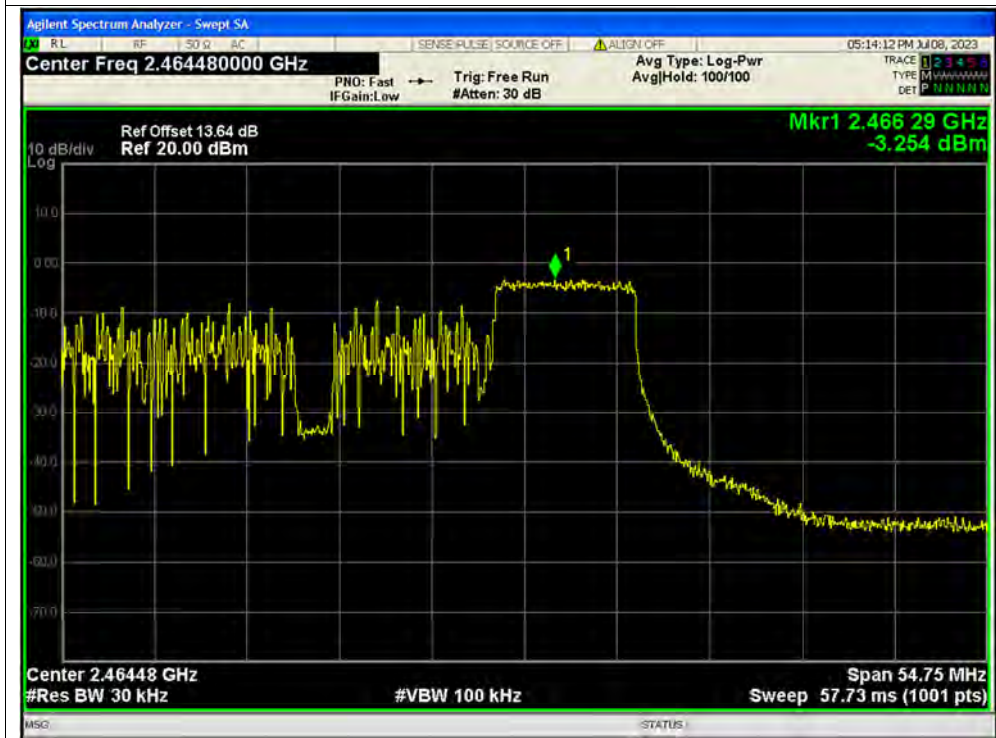


PSD NVNT ax40 106@56 2452MHz Ant2

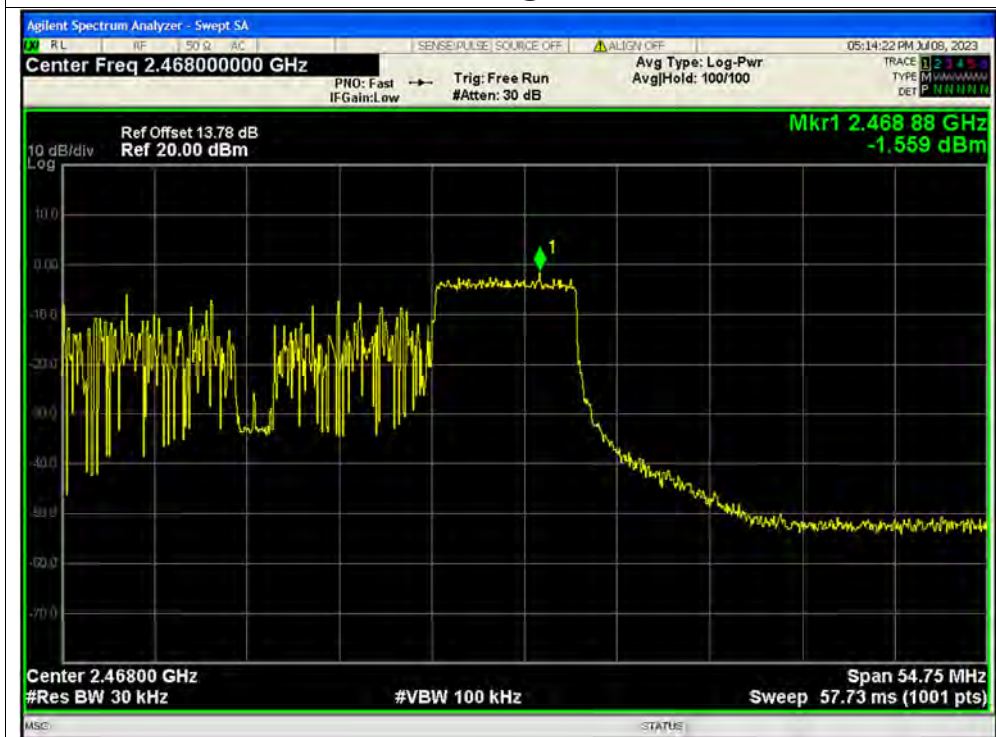




PSD NVNT ax40 106@56 2452MHz Ant1

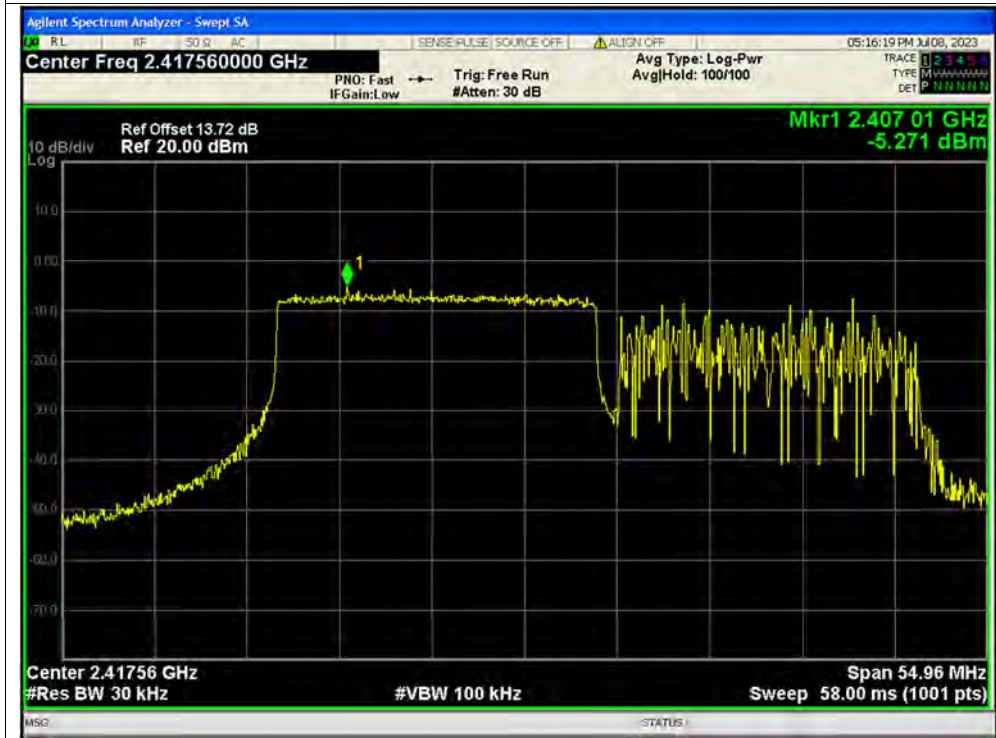


PSD NVNT ax40 106@56 2452MHz Ant2

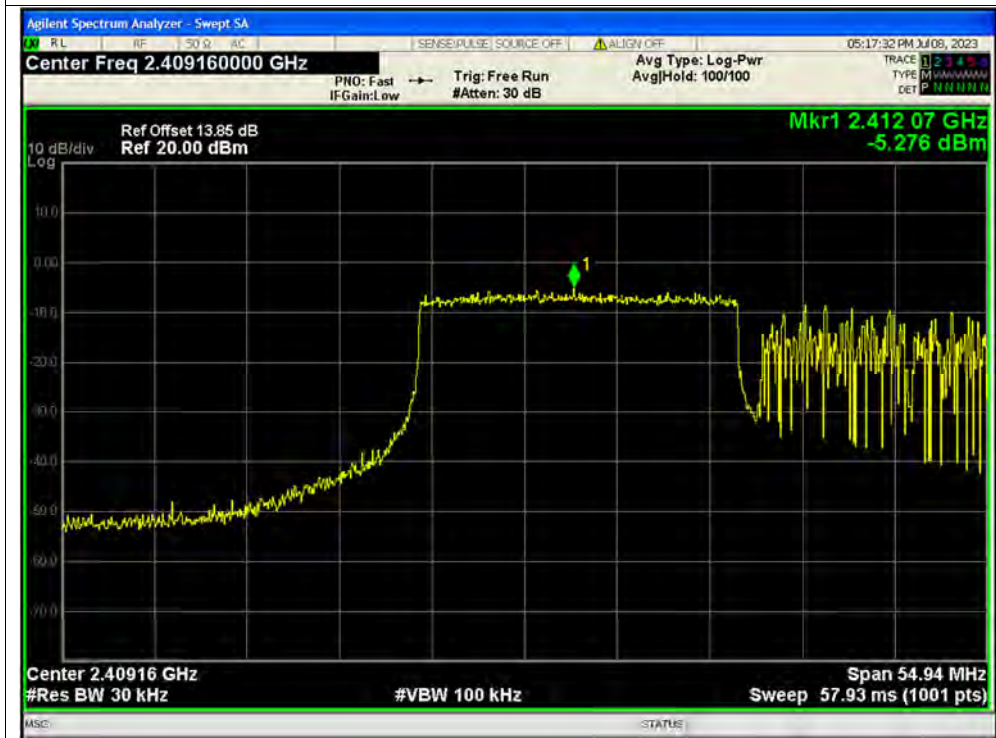




PSD NVNT ax40 242@61 2422MHz Ant1

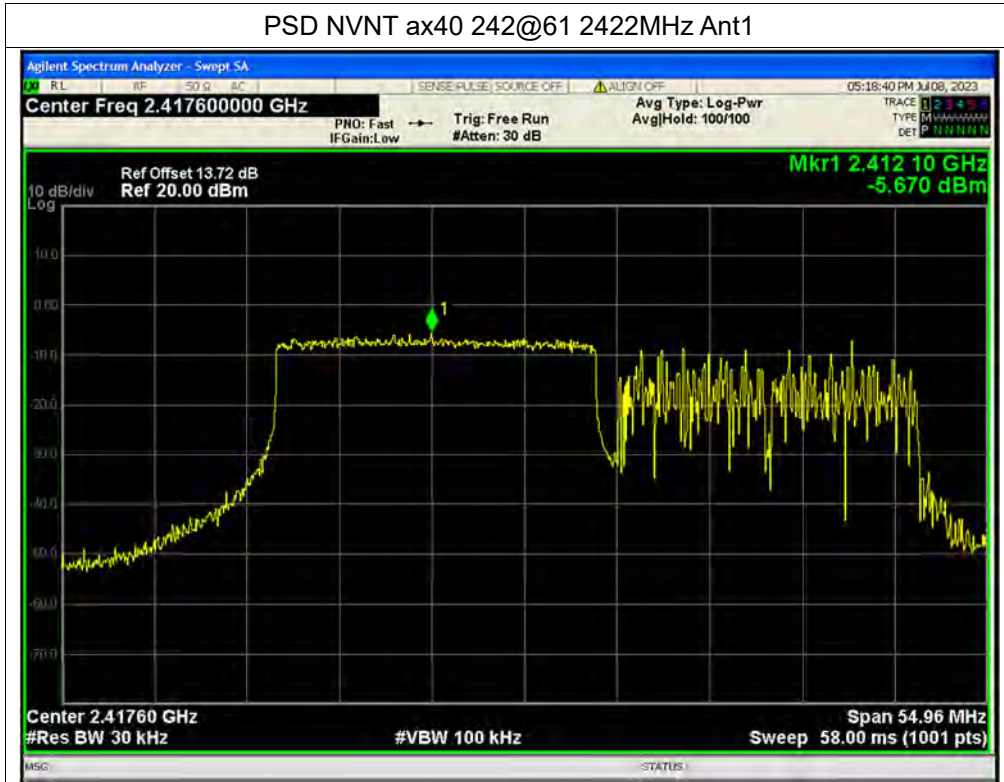


PSD NVNT ax40 242@61 2422MHz Ant2

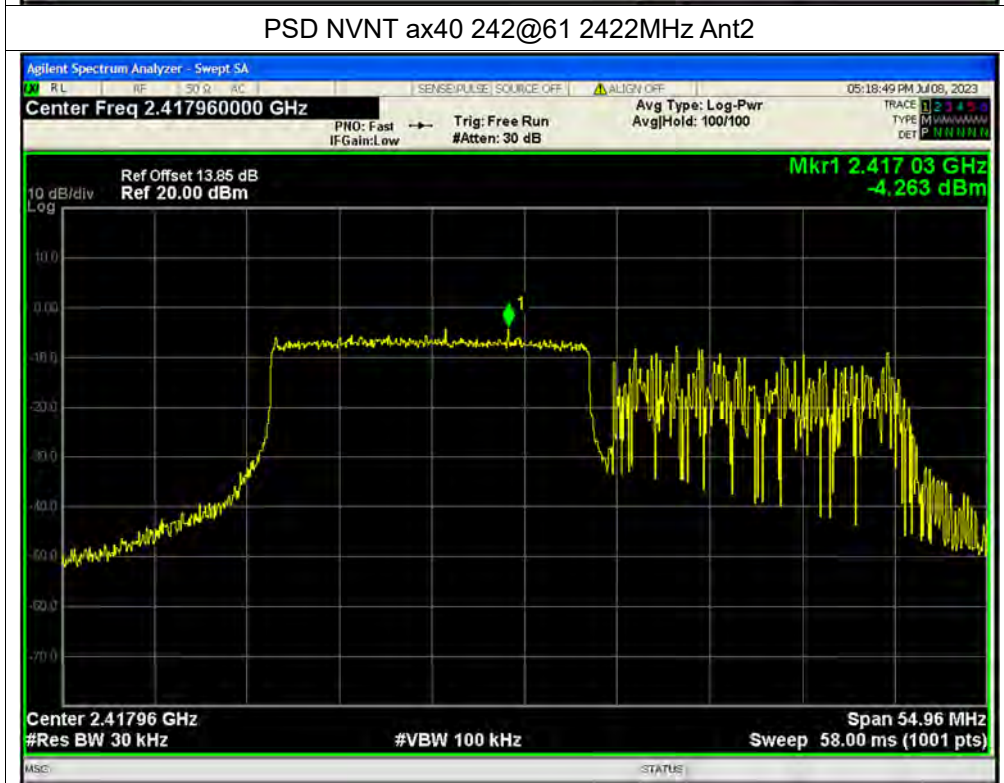




PSD NVNT ax40 242@61 2422MHz Ant1



PSD NVNT ax40 242@61 2422MHz Ant2





PSD NVNT ax40 242@62 2452MHz Ant1



PSD NVNT ax40 242@62 2452MHz Ant2





PSD NVNT ax40 242@62 2452MHz Ant1



PSD NVNT ax40 242@62 2452MHz Ant2





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 + Adapter + PC + USB Cable + HDMI Cable + Display screen + WIFI TX

Test voltage: AC 120V/60Hz

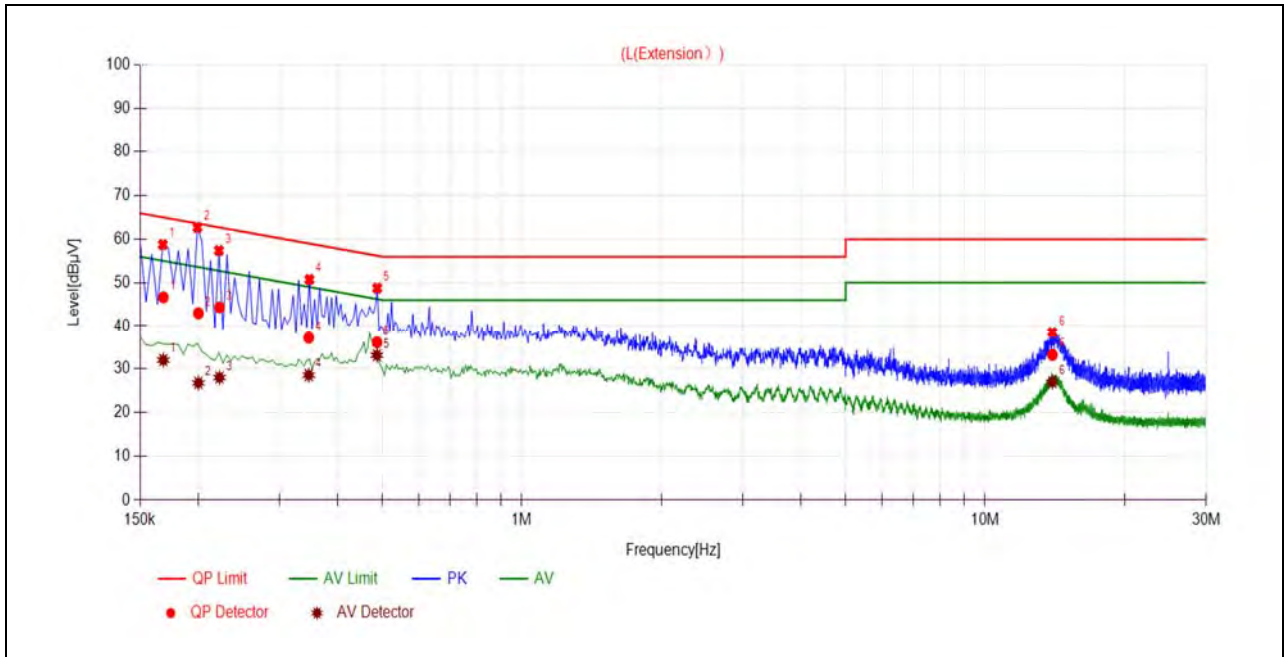
The measurement results are obtained as below:

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

U_R : Receiver Reading

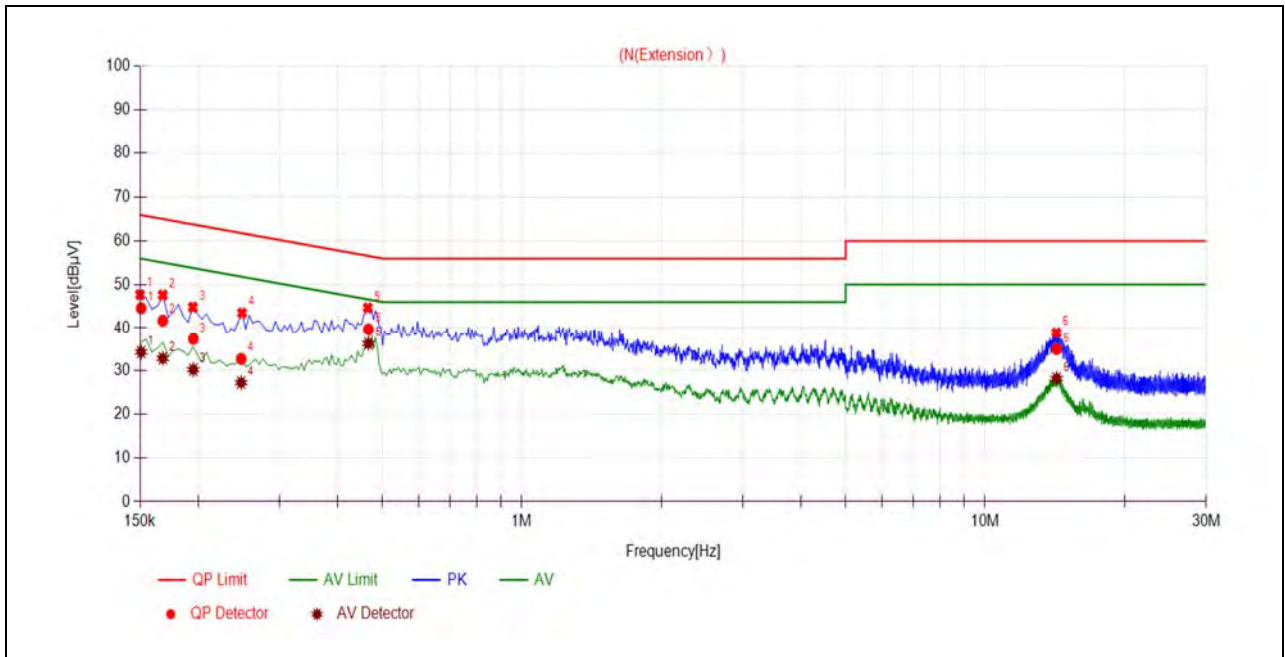
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1684	46.65	32.02	65.04	55.04	Line	PASS
2	0.2004	42.95	26.75	63.59	53.59		PASS
3	0.2226	44.31	27.99	62.72	52.72		PASS
4	0.3469	37.19	28.55	59.04	49.04		PASS
5	0.4868	36.12	33.14	56.22	46.22		PASS
6	13.9711	33.21	26.95	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	0.1508	44.57	34.33	65.96	55.96	Neutral	PASS
2	0.1679	41.69	32.87	65.07	55.07		PASS
3	0.1954	37.38	30.26	63.80	53.80		PASS
4	0.2479	32.73	27.27	61.83	51.83		PASS
5	0.4665	39.67	36.31	56.58	46.58		PASS
6	14.2661	35.03	28.21	60.00	50.00		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

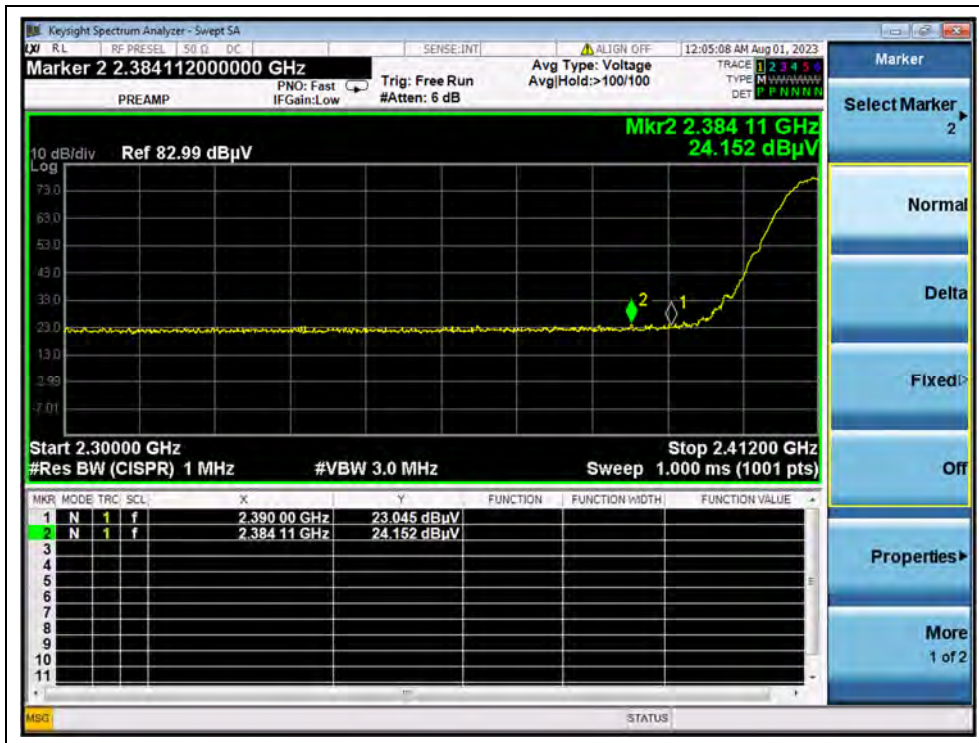
A_{Factor} : Antenna Factor at 3m

Note 1: 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.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

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	2384.11	PK	24.15	6.74	27.20	58.09	74	PASS
1	2389.71	AV	12.21	6.74	27.20	46.15	54	PASS
11	2488.75	PK	25.01	6.74	27.20	58.95	74	PASS
11	2483.50	AV	12.12	6.74	27.20	46.06	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	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
1	2389.82	PK	29.13	6.74	27.20	63.07	74	PASS
1	2390.00	AV	14.71	6.74	27.20	48.65	54	PASS
11	2483.50	PK	29.18	6.74	27.20	63.12	74	PASS
11	2483.50	AV	16.82	6.74	27.20	50.76	54	PASS



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

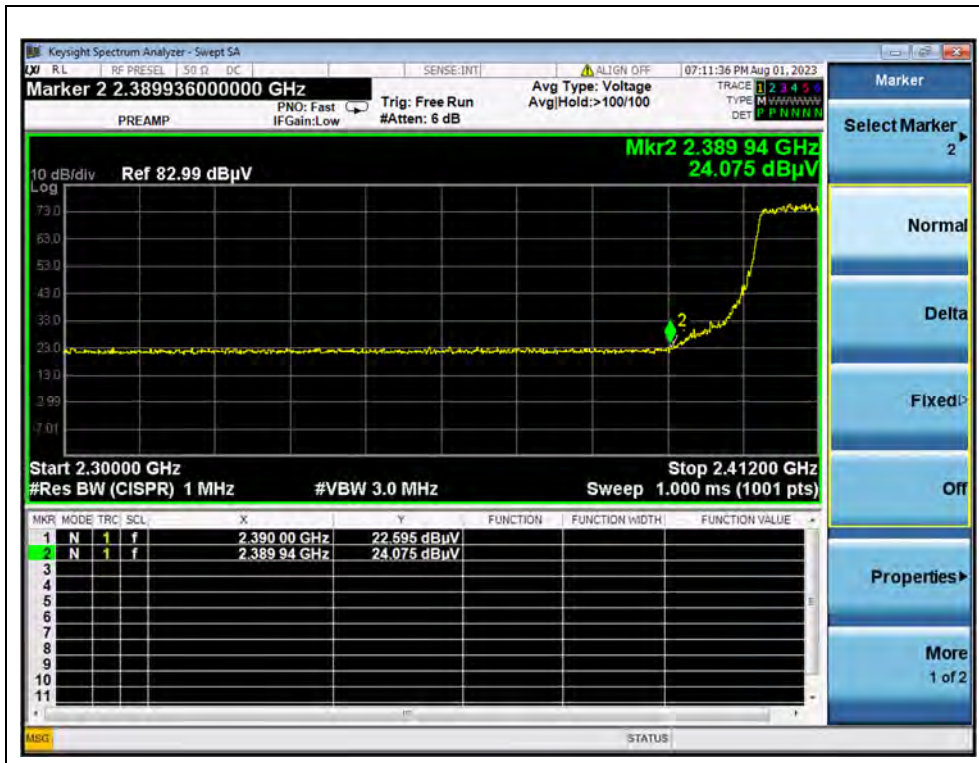


(AVERAGE, Channel 11, 802.11g)

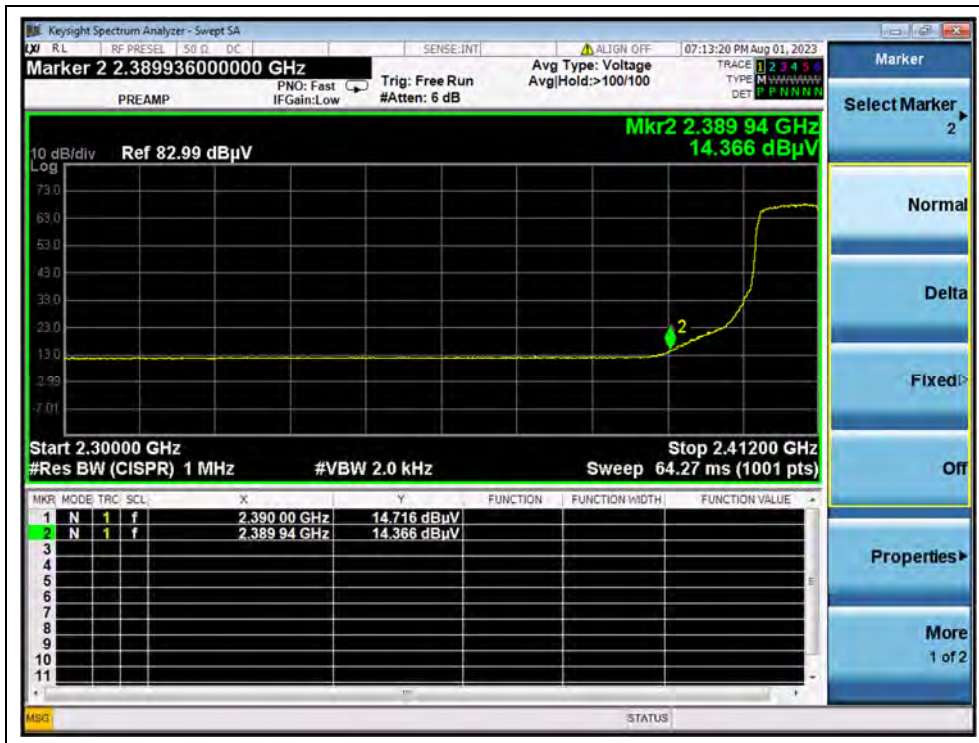


802.11n (HT20) Mode

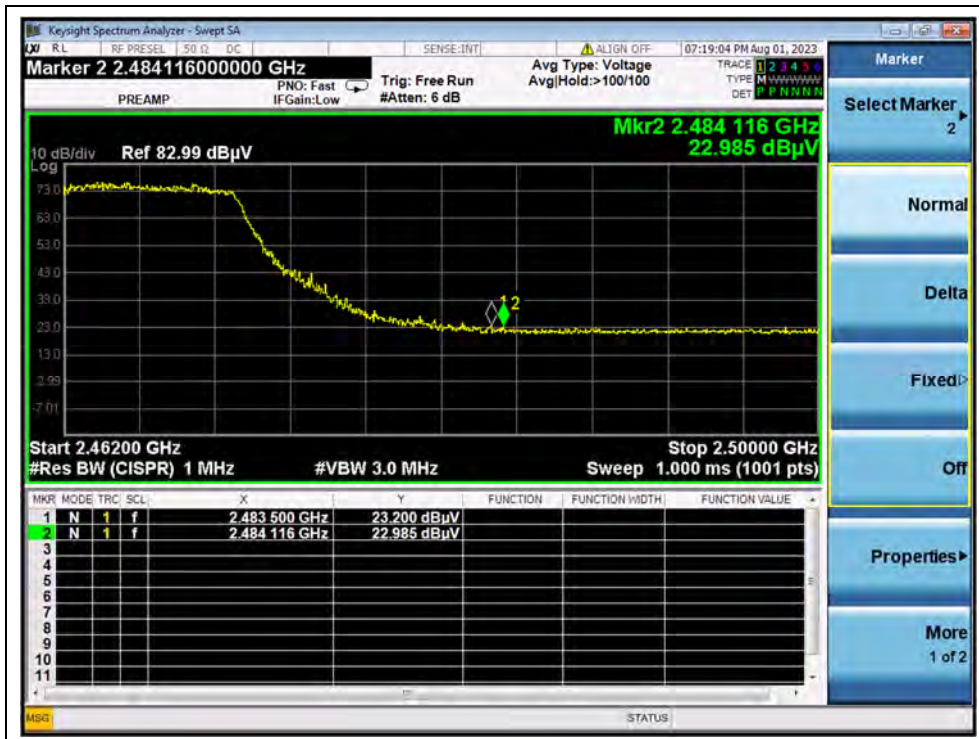
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.94	PK	24.08	6.74	27.20	58.02	74	PASS
1	2390.00	AV	14.72	6.74	27.20	48.66	54	PASS
11	2483.50	PK	23.20	6.74	27.20	57.14	74	PASS
11	2483.66	AV	13.39	6.74	27.20	47.33	54	PASS



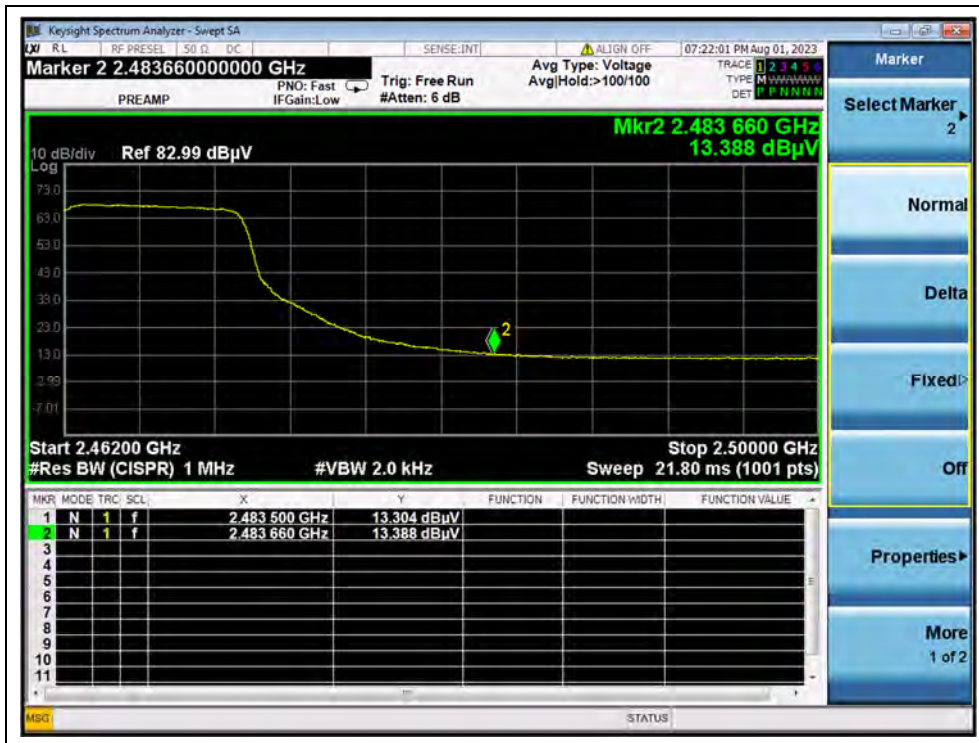
(PEAK, Channel 1, 802.11n (HT20))



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



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

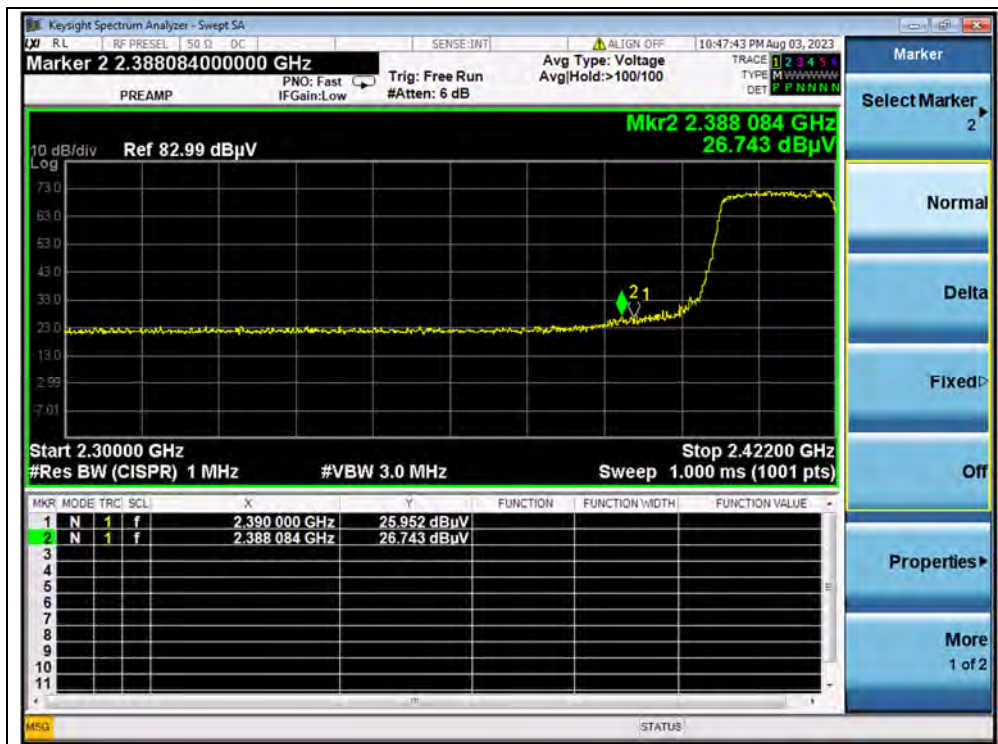


(AVERAGE, Channel 11, 802.11n (HT20))

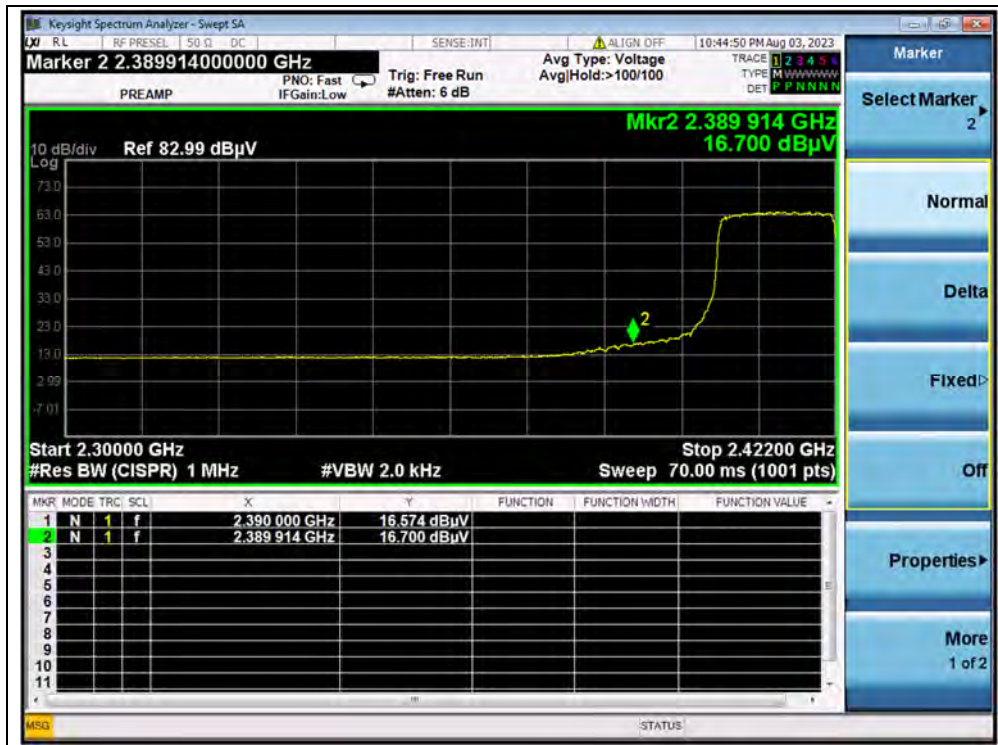


802.11n (HT40) Mode

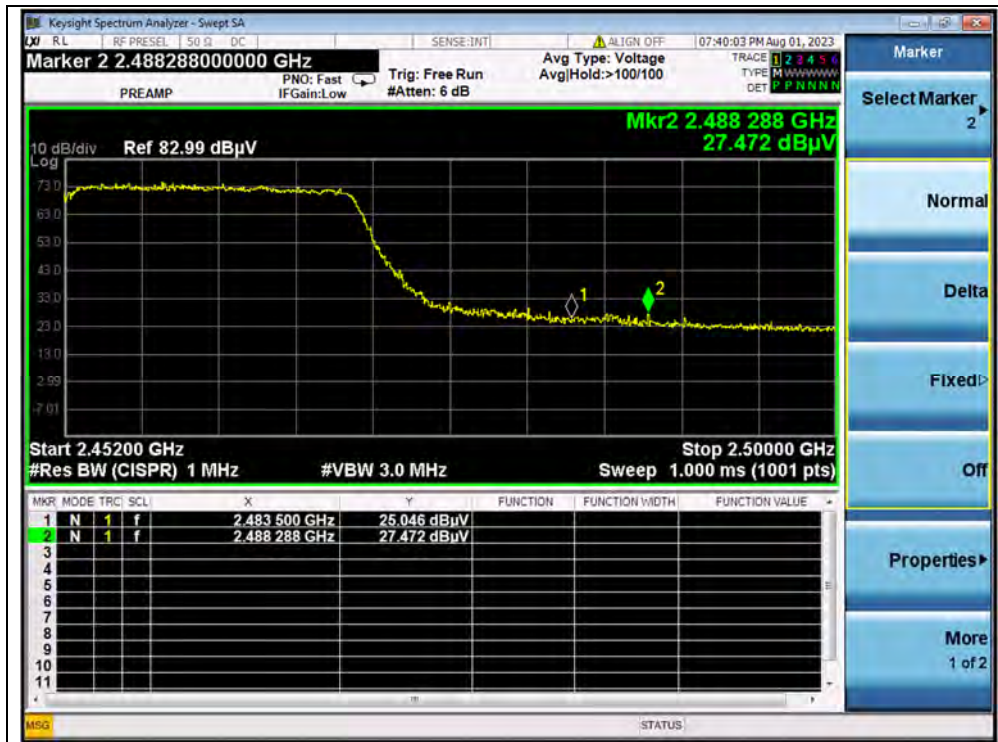
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2388.08	PK	26.74	6.74	27.20	60.68	74	PASS
3	2389.91	AV	16.70	6.74	27.20	50.64	54	PASS
9	2488.29	PK	27.47	6.74	27.20	61.41	74	PASS
9	2483.92	AV	16.80	6.74	27.20	50.74	54	PASS



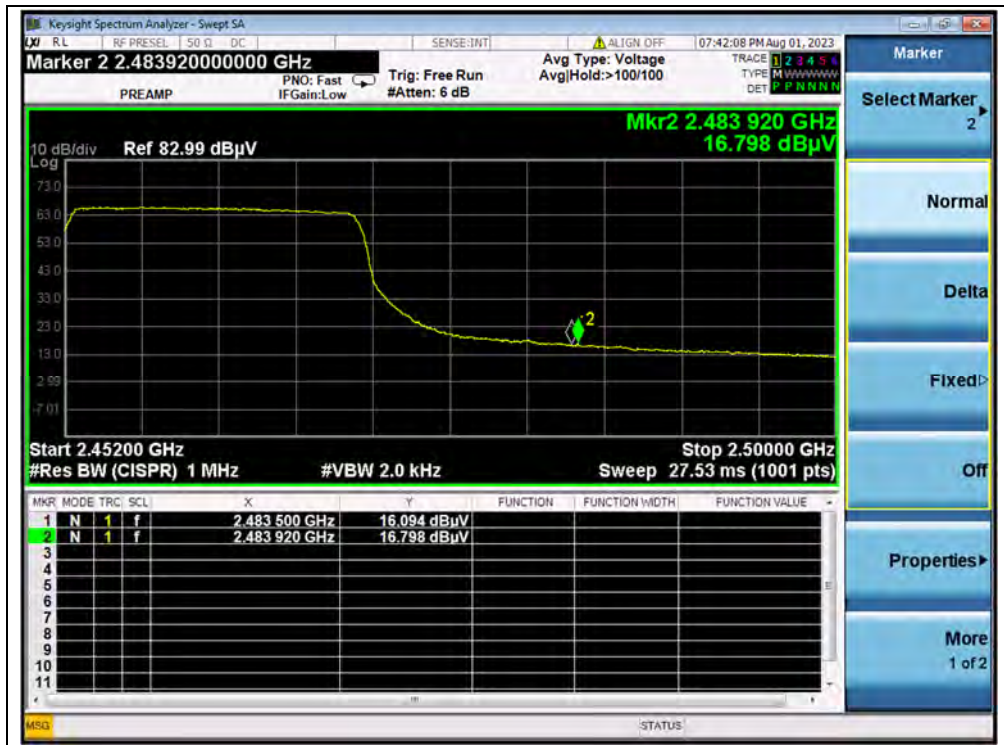
(PEAK, Channel 3, 802.11n (HT40))



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



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

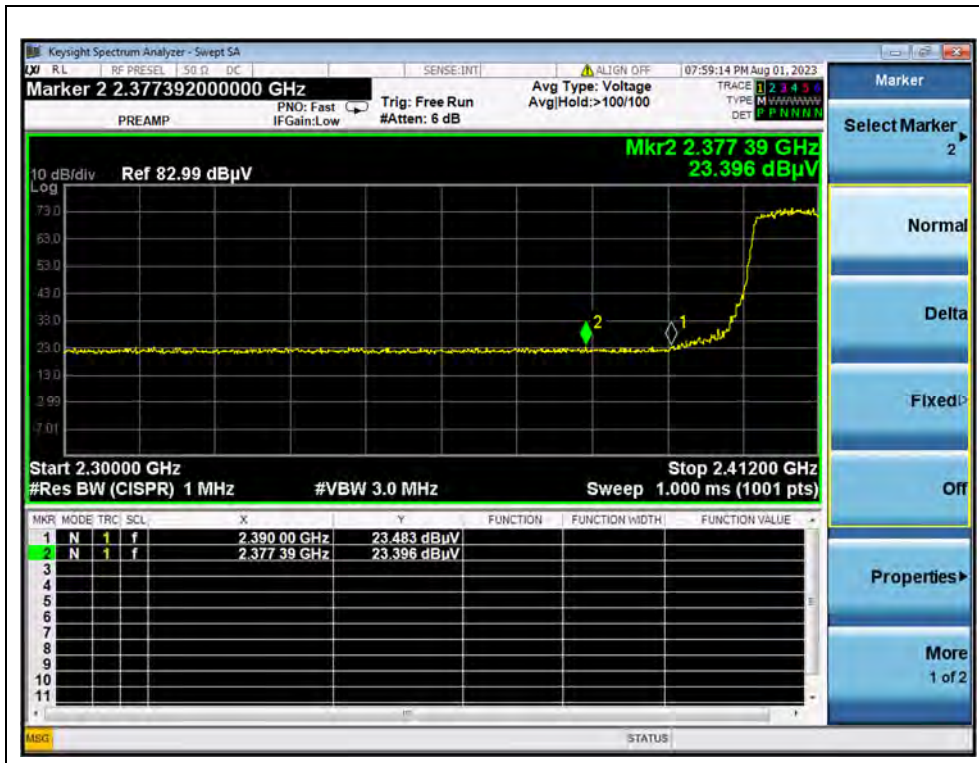


(AVERAGE, Channel 9, 802.11n (HT40))

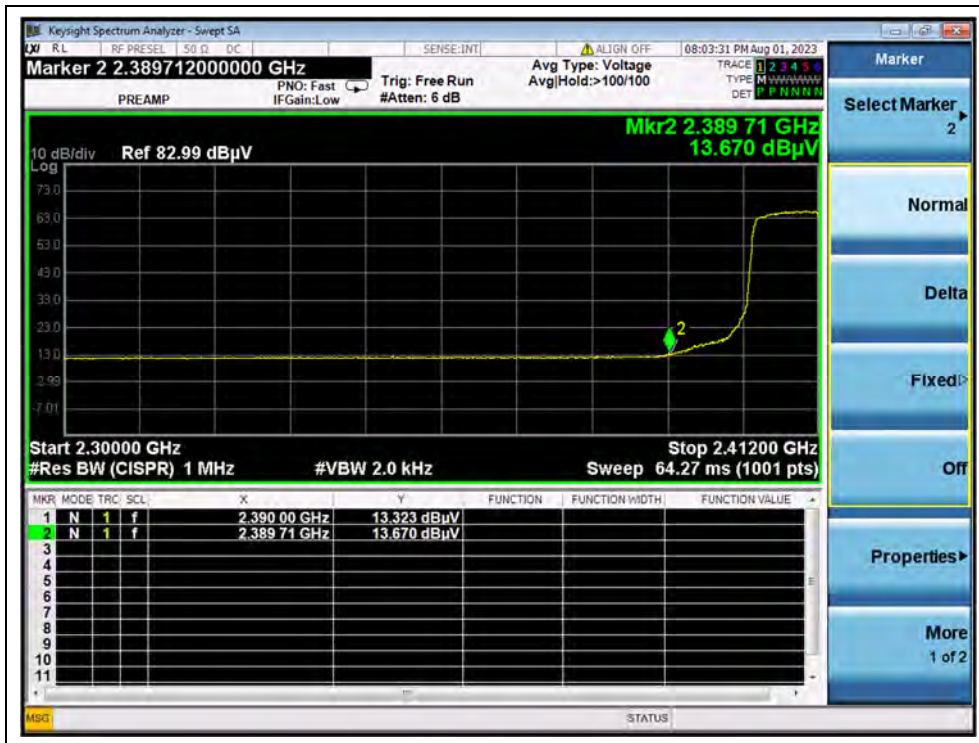


802.11ax (HEW20) Mode

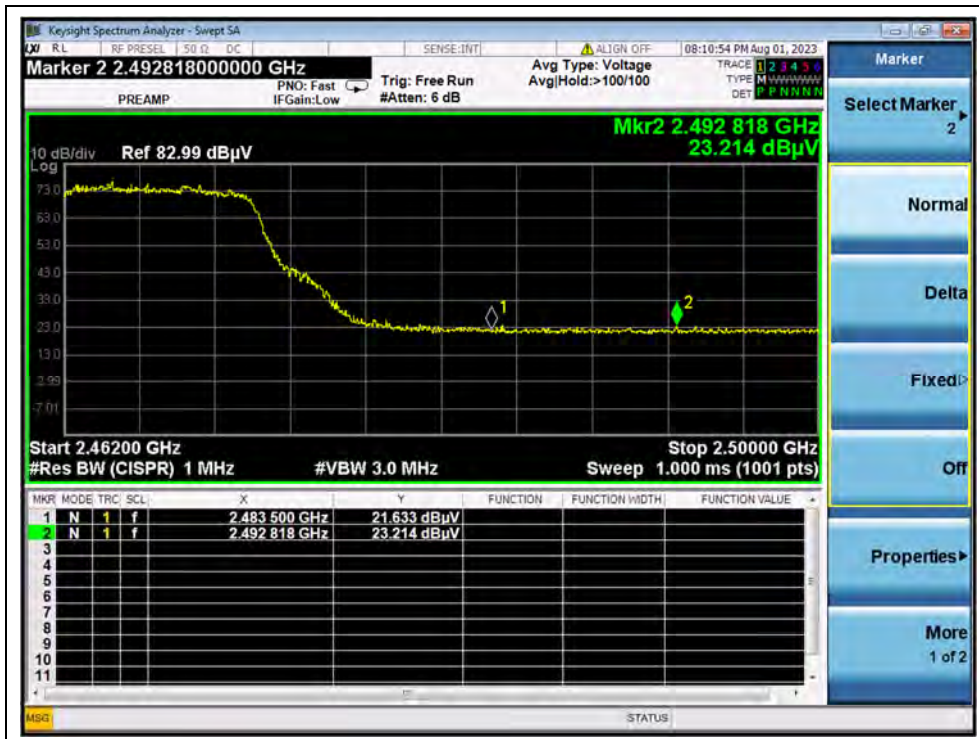
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	23.48	6.74	27.20	57.42	74	PASS
1	2389.71	AV	13.67	6.74	27.20	47.61	54	PASS
11	2492.92	PK	23.21	6.74	27.20	57.15	74	PASS
11	2483.77	AV	12.28	6.74	27.20	46.22	54	PASS



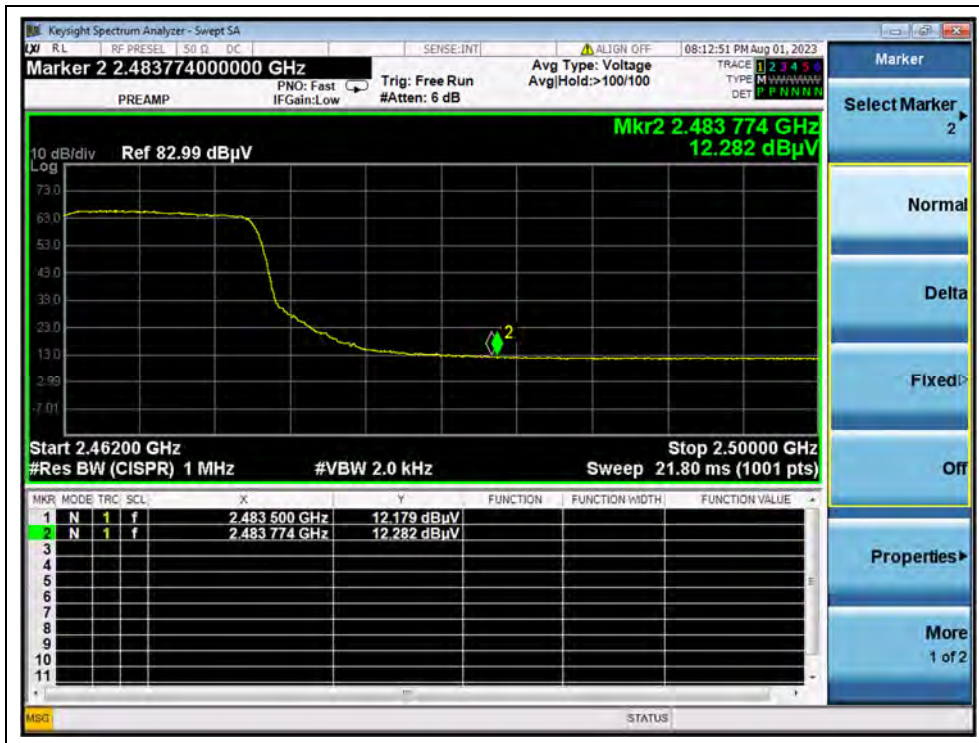
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 11, 802.11ax (HEW20))

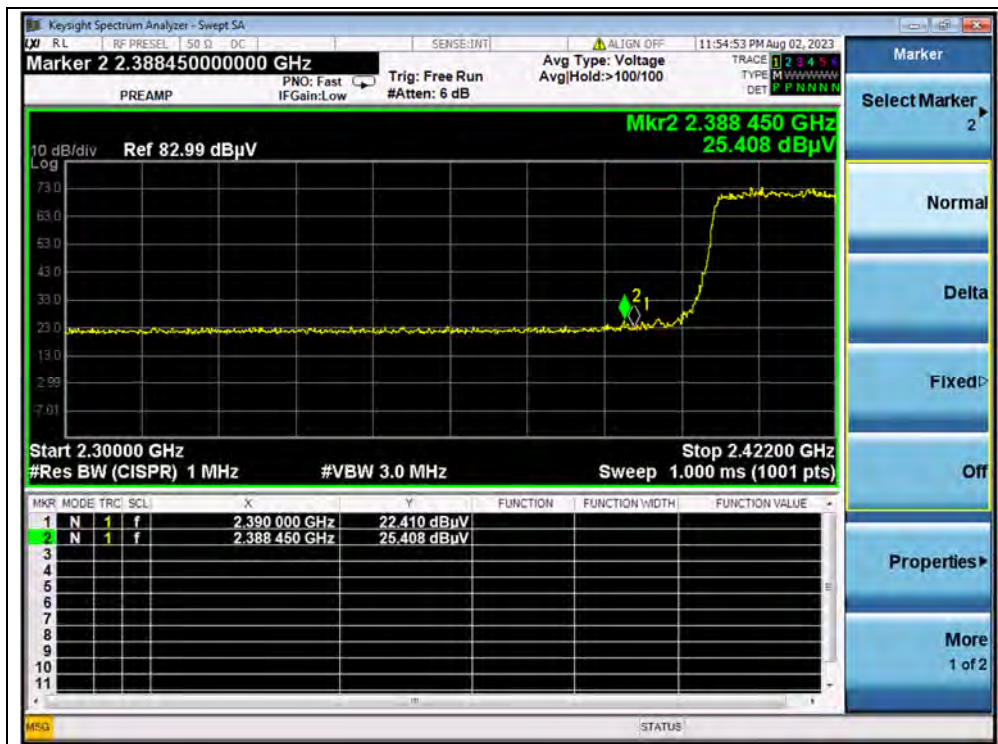


(AVERAGE, Channel 11, 802.11ax (HEW20))

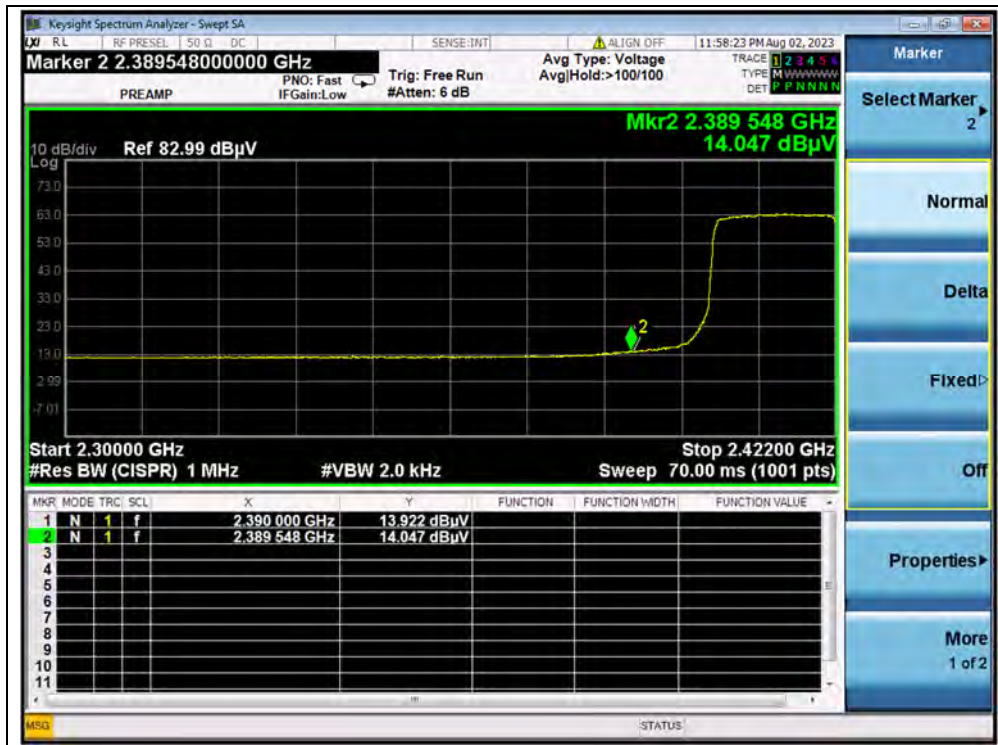


802.11ax (HEW40) Mode

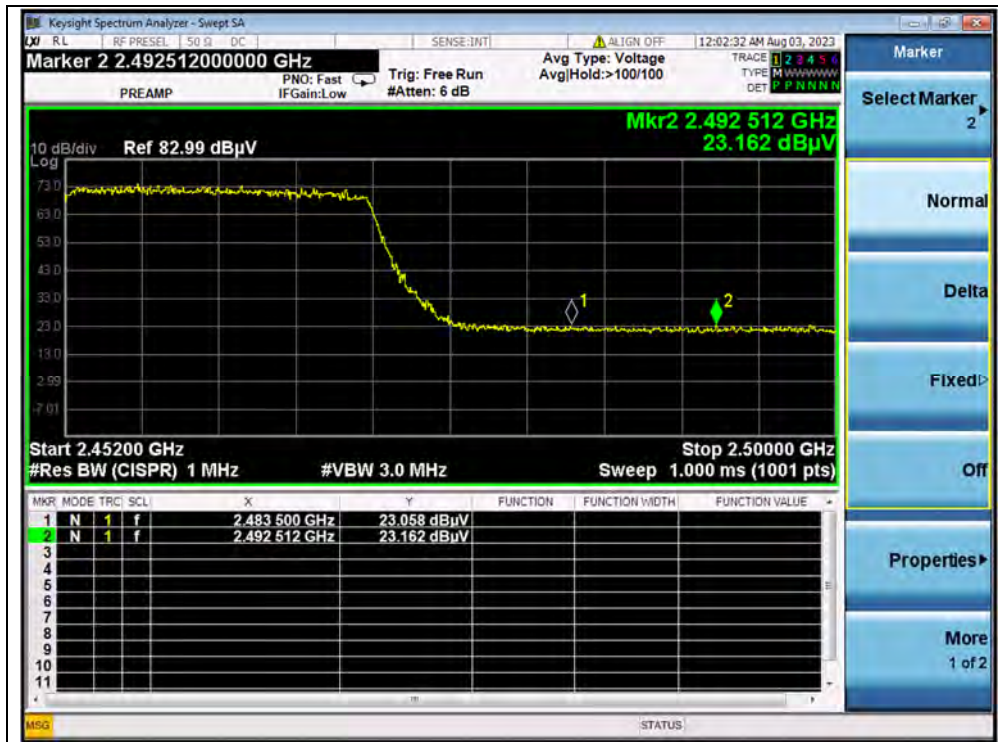
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2388.45	PK	25.41	6.74	27.20	59.35	74	PASS
3	2389.55	AV	14.05	6.74	27.20	47.99	54	PASS
9	2492.51	PK	23.16	6.74	27.20	57.10	74	PASS
9	2483.63	AV	12.97	6.74	27.20	46.91	54	PASS



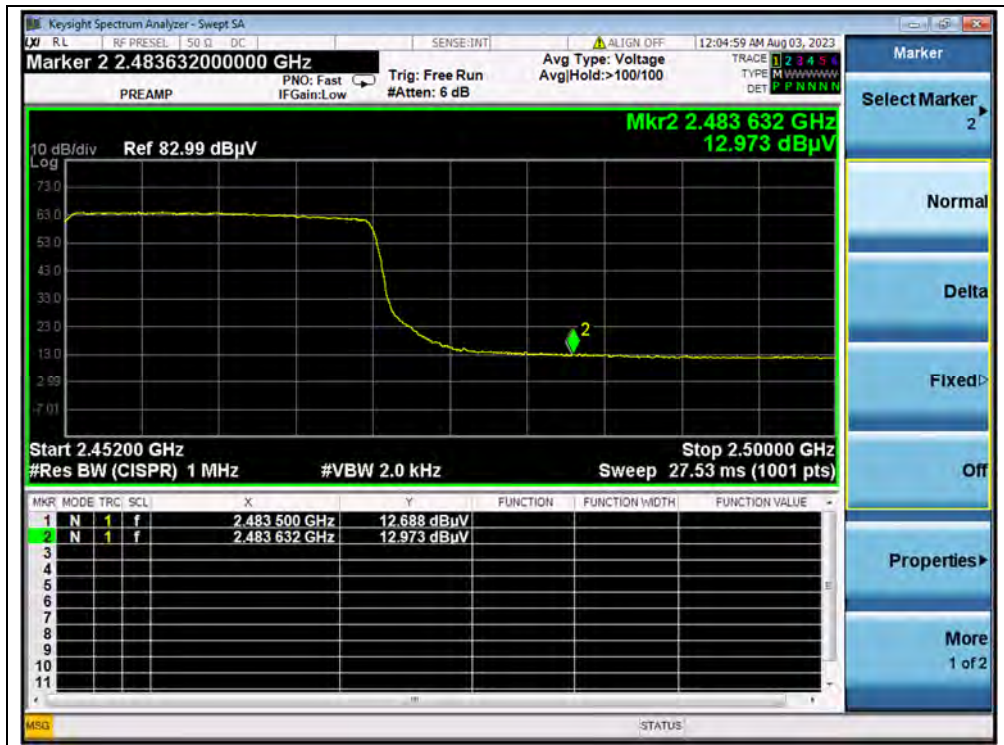
(PEAK, Channel 3, 802.11ax (HEW40))



(AVERAGE, Channel 3, 802.11ax (HEW40))



(PEAK, Channel 9, 802.11ax (HEW40))



(AVERAGE, Channel 9, 802.11ax (HEW40))



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:

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

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.

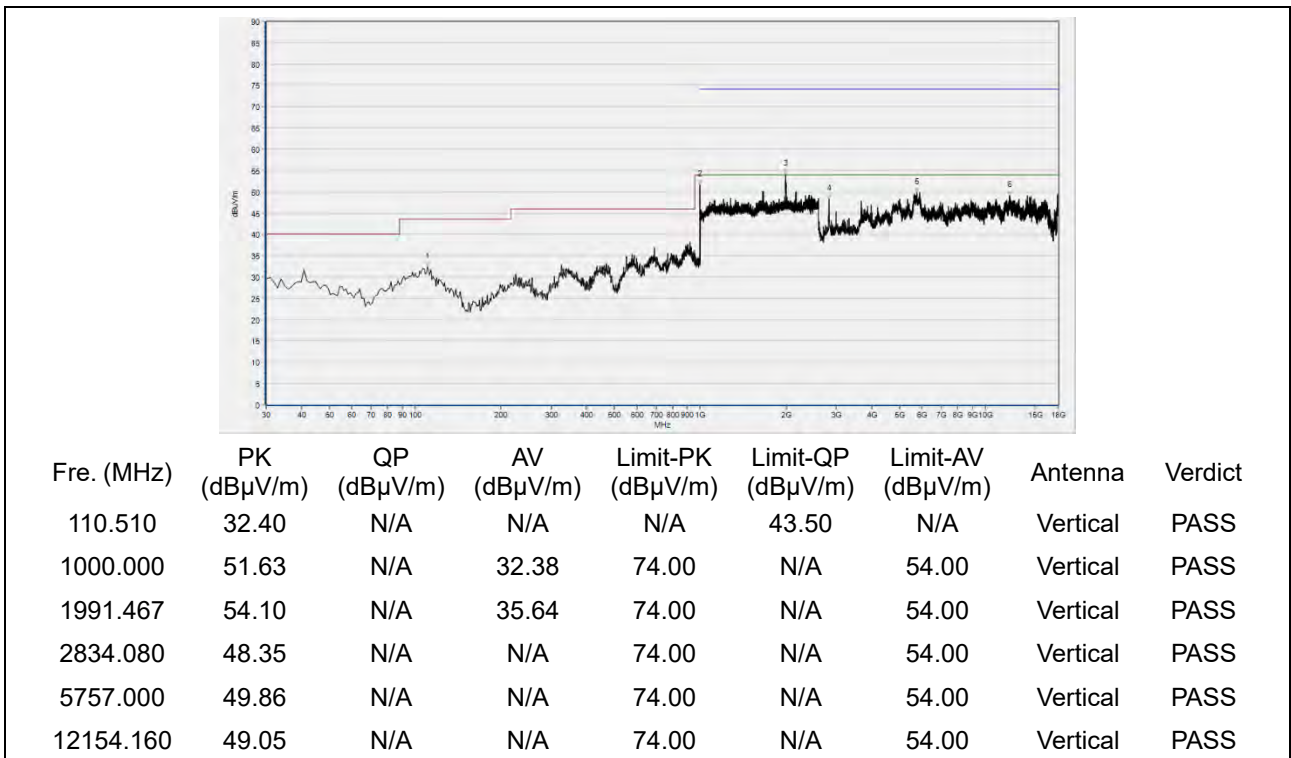


802.11b Mode

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
105.660	32.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1666.133	48.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2365.333	49.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5874.040	50.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10346.200	48.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12141.840	49.45	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
1997.867	51.38	N/A	33.26	74.00	N/A	54.00	Vertical	PASS
2156.800	50.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5310.400	50.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5790.880	50.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12508.360	49.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

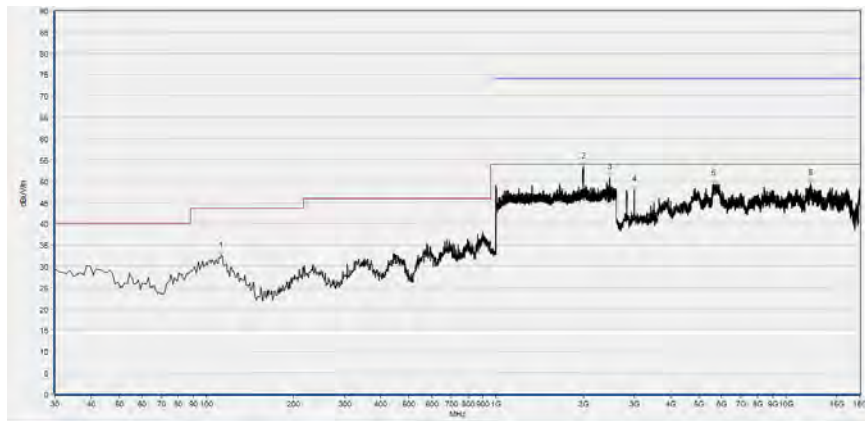
(Antenna Vertical, 30MHz to 18GHz)

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
110.510	32.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1992.533	49.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2462.933	55.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5753.920	50.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7854.480	47.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12200.360	49.54	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
112.450	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1998.400	53.25	N/A	35.37	74.00	N/A	54.00	Vertical	PASS
2462.400	50.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2994.240	48.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5624.560	49.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12191.120	49.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



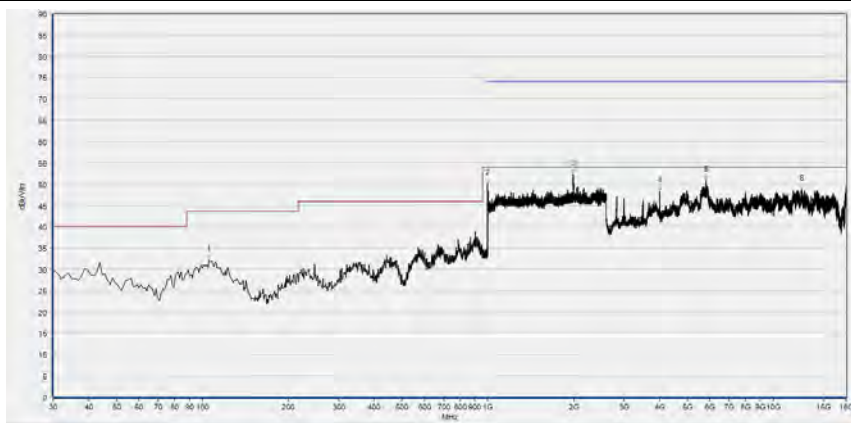
802.11g Mode

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
110.510	32.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1994.133	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2403.733	50.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.040	50.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	49.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16386.080	48.62	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	32.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	50.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1995.200	52.24	N/A	34.65	74.00	N/A	54.00	Vertical	PASS
3992.160	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5830.920	51.03	N/A	35.73	74.00	N/A	54.00	Vertical	PASS
12600.760	48.80	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
108.570	32.89	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1999.467	50.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2489.600	50.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5639.960	49.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	49.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14270.120	49.02	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	33.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	49.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1992.000	52.62	N/A	34.59	74.00	N/A	54.00	Vertical	PASS
2824.840	51.58	N/A	31.62	74.00	N/A	54.00	Vertical	PASS
5861.720	49.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13986.760	49.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

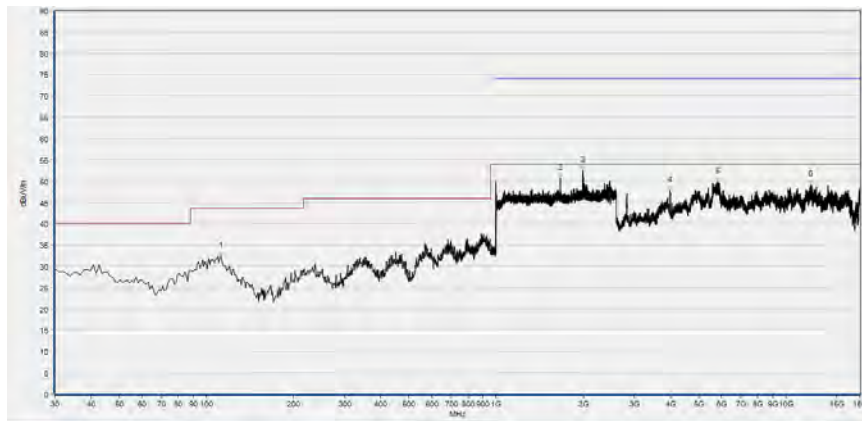
(Antenna Vertical, 30MHz to 18GHz)

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
99.840	32.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2164.267	49.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.000	54.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5880.200	49.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8442.760	48.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11750.680	49.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



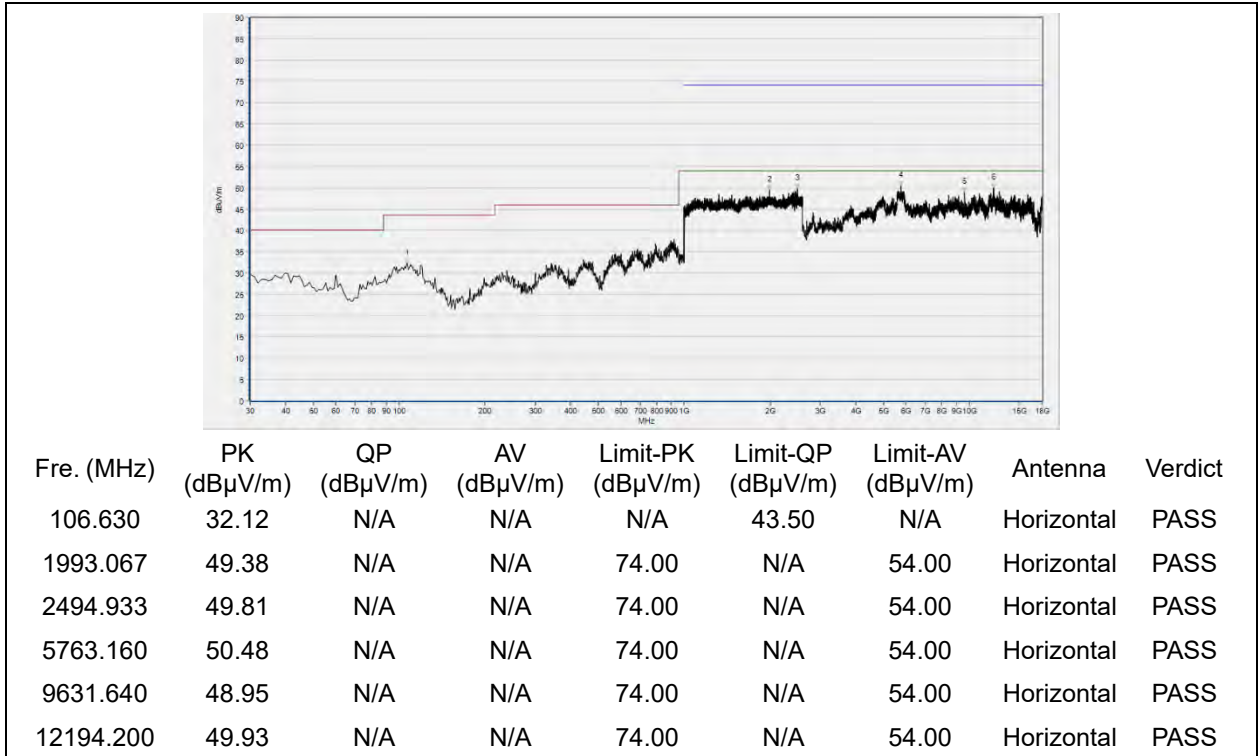
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1664.000	50.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1990.933	52.46	N/A	34.14	74.00	N/A	54.00	Vertical	PASS
3986.000	47.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5821.680	49.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12151.080	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

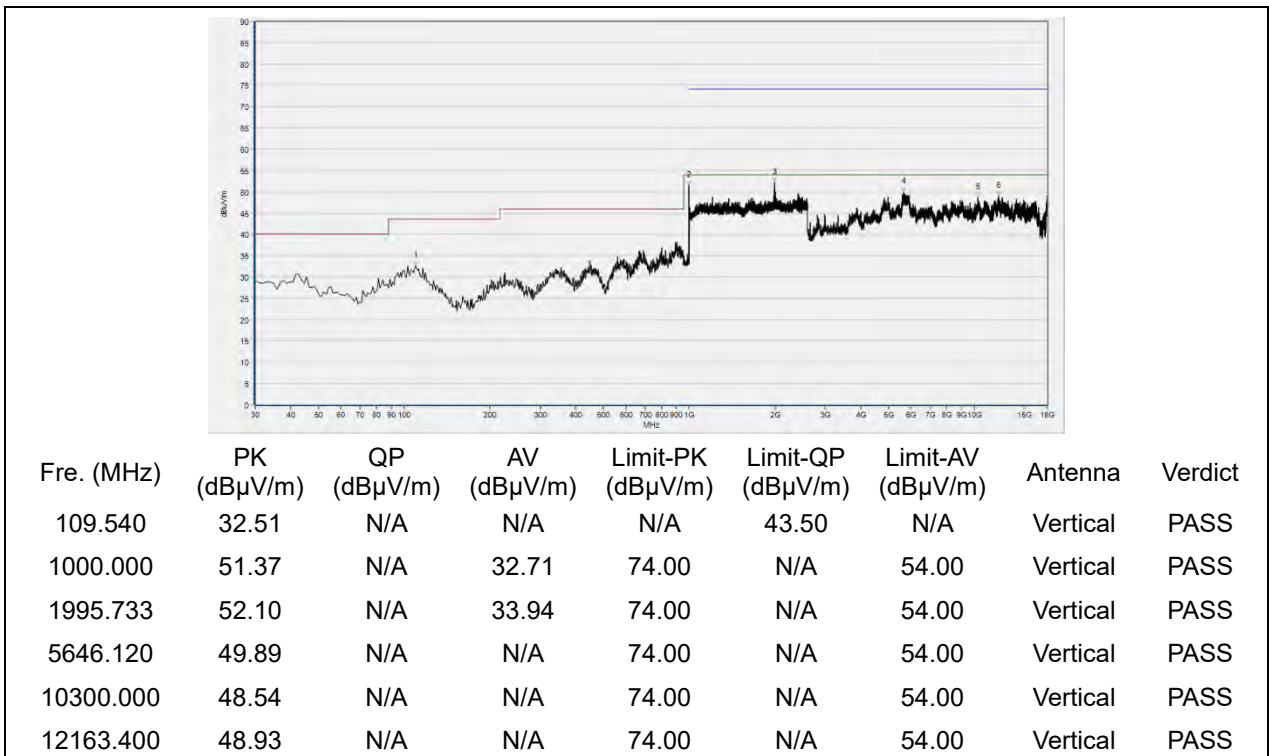


802.11n (HT20) Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



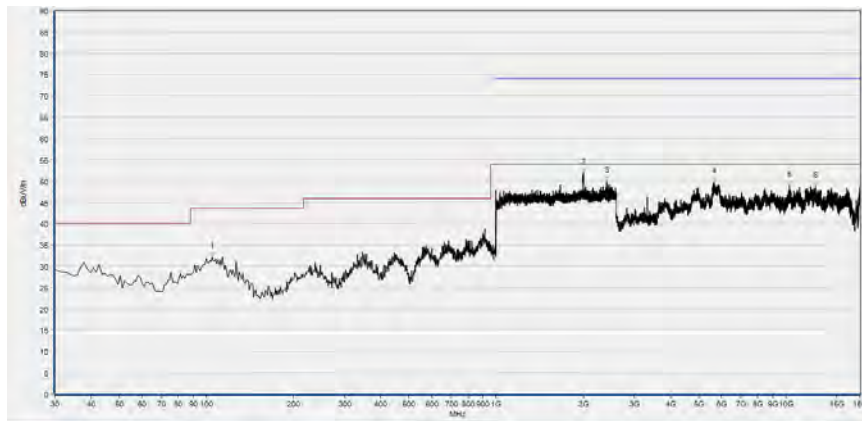
(Antenna Vertical, 30MHz to 18GHz)

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
110.510	32.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1360.533	48.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2451.733	49.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5886.360	50.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8442.760	49.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12203.440	49.74	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
104.690	32.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1997.333	51.97	N/A	34.57	74.00	N/A	54.00	Vertical	PASS
2411.733	50.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5661.520	49.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10278.440	48.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12677.760	48.84	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
107.600	32.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1991.467	49.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.533	53.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5760.080	50.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8288.760	48.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12163.400	49.23	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
112.450	32.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	50.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1990.400	51.91	N/A	34.48	74.00	N/A	54.00	Vertical	PASS
2464.533	52.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3986.000	50.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5747.760	49.37	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
107.600	32.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1992.533	49.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2452.800	50.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5713.880	49.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8402.720	48.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12107.960	49.46	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	32.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1998.933	50.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2452.800	49.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5907.920	49.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12520.680	49.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14094.560	49.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

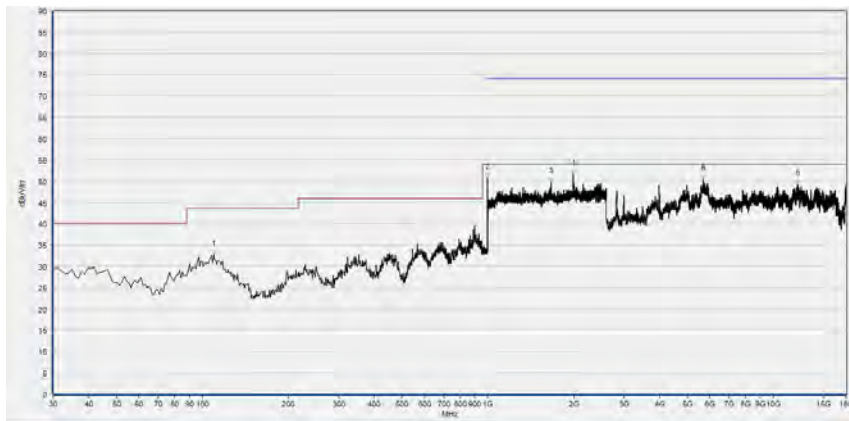
(Antenna Vertical, 30MHz to 18GHz)

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
106.630	33.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1992.000	50.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2458.667	49.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4977.760	49.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5735.440	49.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12148.000	49.80	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	32.67	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	50.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1665.067	49.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1995.200	51.59	N/A	34.12	74.00	N/A	54.00	Vertical	PASS
5676.920	50.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12163.400	49.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



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	32.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1330.133	50.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1995.200	49.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2463.467	51.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5824.760	49.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10330.800	48.96	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	32.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1993.067	52.04	N/A	34.71	74.00	N/A	54.00	Vertical	PASS
2453.333	49.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3998.320	48.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5609.160	49.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12200.360	49.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



802.11ax (HEW20) 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
106.630	32.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1993.067	50.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2416.533	49.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5639.960	50.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8932.480	48.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12154.160	50.59	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
113.420	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	49.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1990.400	55.19	N/A	34.70	74.00	N/A	54.00	Vertical	PASS
2831.000	48.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	49.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14421.040	49.21	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
108.570	32.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1992.533	49.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2453.333	49.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5858.640	49.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9064.920	48.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12058.680	49.51	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
97.900	33.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	52.63	N/A	35.49	74.00	N/A	54.00	Vertical	PASS
1994.133	52.13	N/A	34.51	74.00	N/A	54.00	Vertical	PASS
5680.000	49.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8402.720	48.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11732.200	49.64	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
108.570	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1997.333	49.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.000	52.99	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A
5883.280	50.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8470.480	49.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	49.40	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
113.420	33.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1661.333	50.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1993.600	52.92	N/A	N/A	74.00	N/A	54.00	Vertical	N/A
2468.267	50.76	N/A	34.85	74.00	N/A	54.00	Vertical	PASS
5723.120	50.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12148.000	50.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



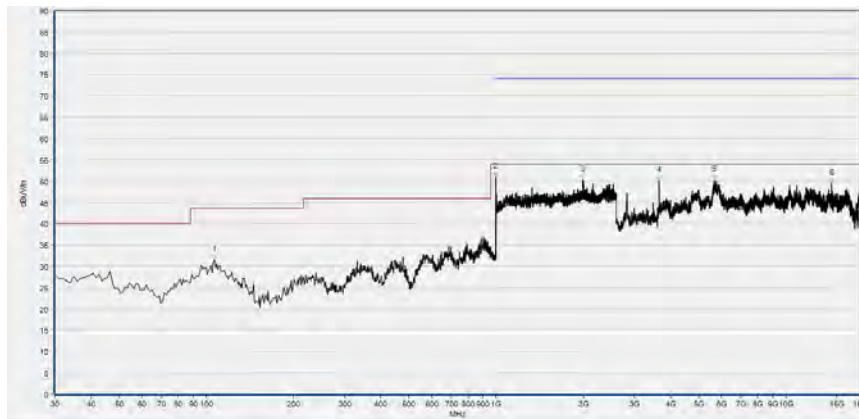
802.11ax (HEW40) Mode

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	31.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1999.467	48.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2388.267	49.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5627.640	49.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11750.680	49.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
15006.240	48.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

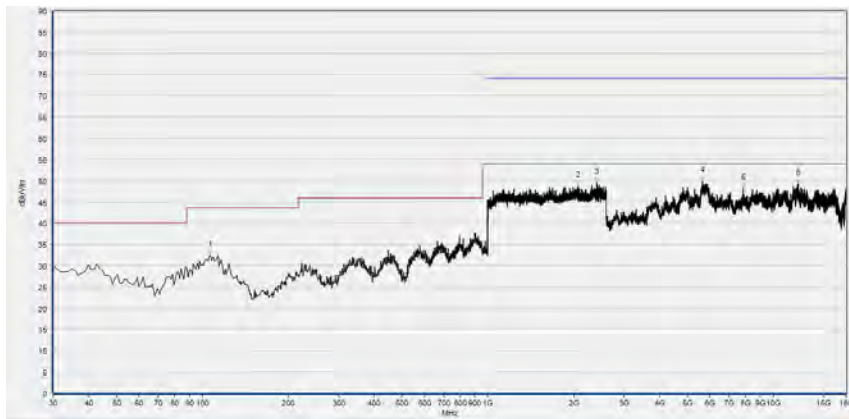
(Antenna Horizontal, 30MHz to 18GHz)



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
106.630	31.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	51.01	N/A	33.27	74.00	N/A	54.00	Vertical	PASS
1992.533	50.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3656.440	50.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5664.600	50.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14405.640	49.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

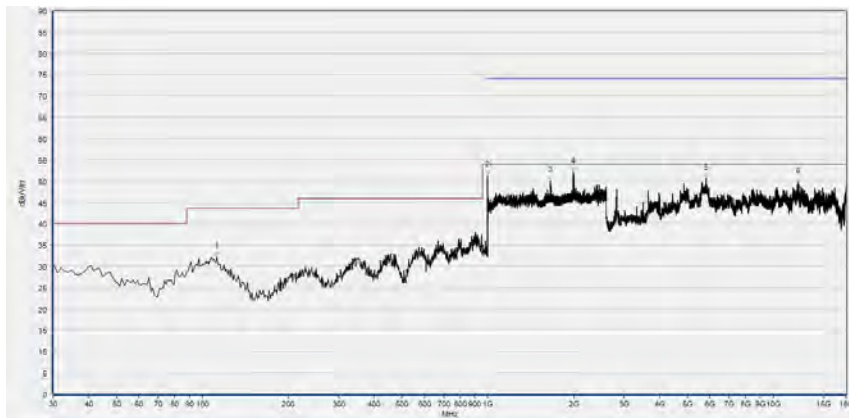
(Antenna Vertical, 30MHz to 18GHz)

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
106.630	32.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2069.867	48.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2412.267	49.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	49.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7857.560	48.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12215.760	49.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

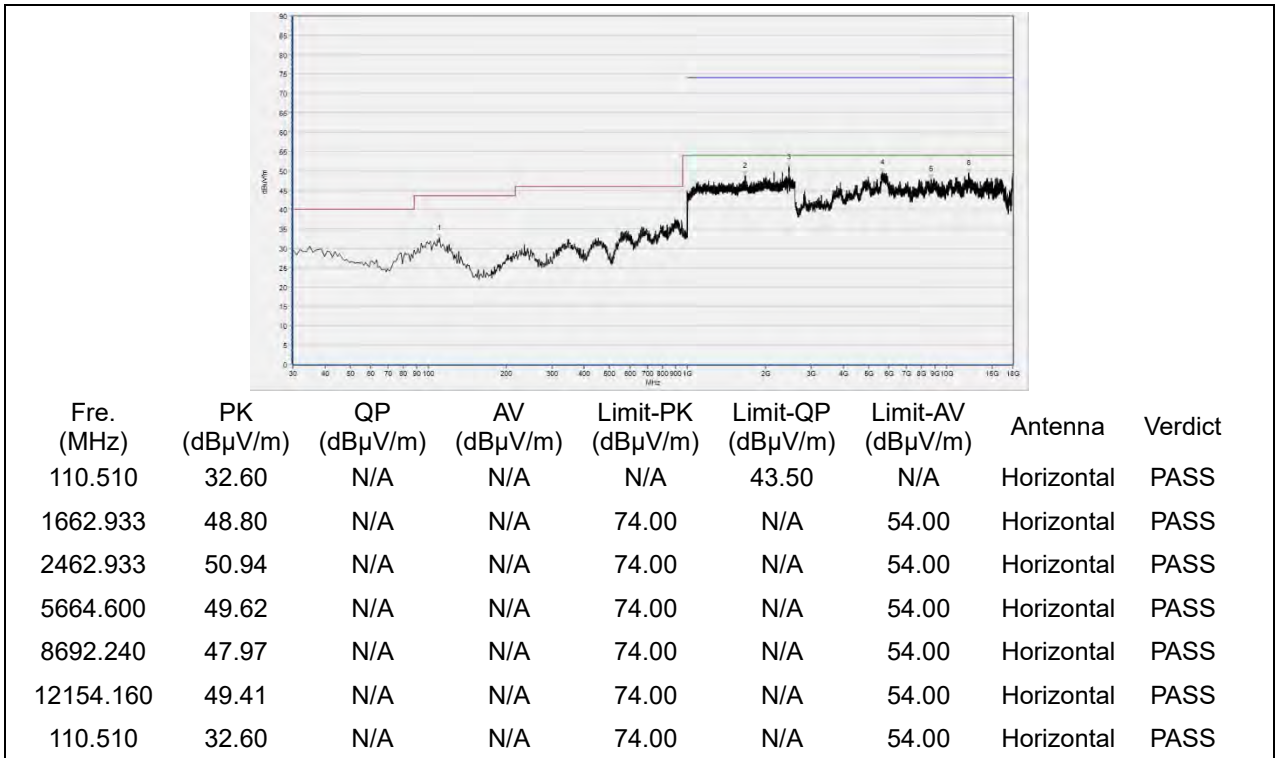
(Antenna Horizontal, 30MHz to 18GHz)



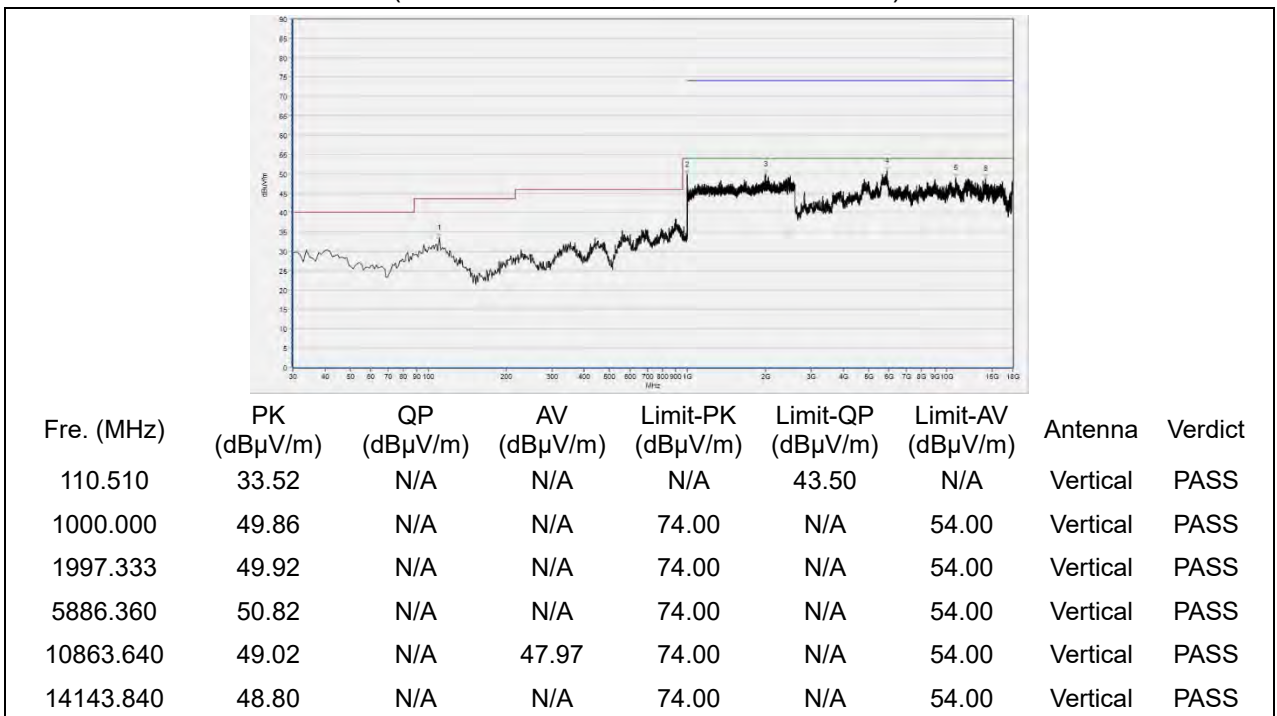
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1000.000	51.21	N/A	34.62	74.00	N/A	54.00	Vertical	PASS
1658.667	50.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1995.200	52.05	N/A	34.28	74.00	N/A	54.00	Vertical	PASS
5821.680	50.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12203.440	49.81	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