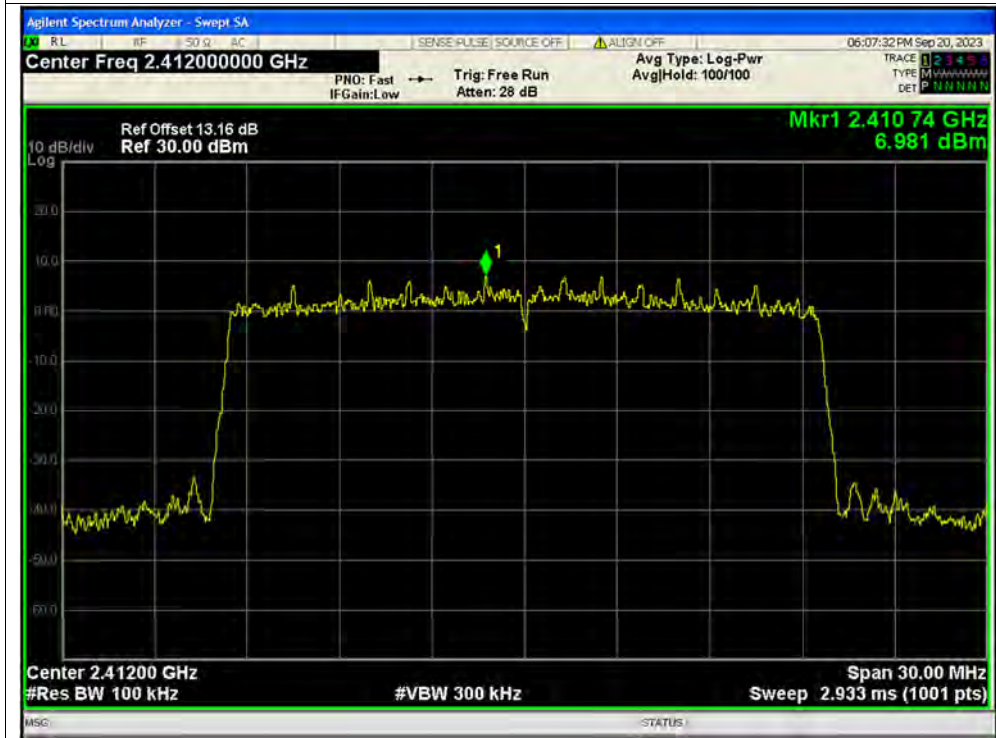
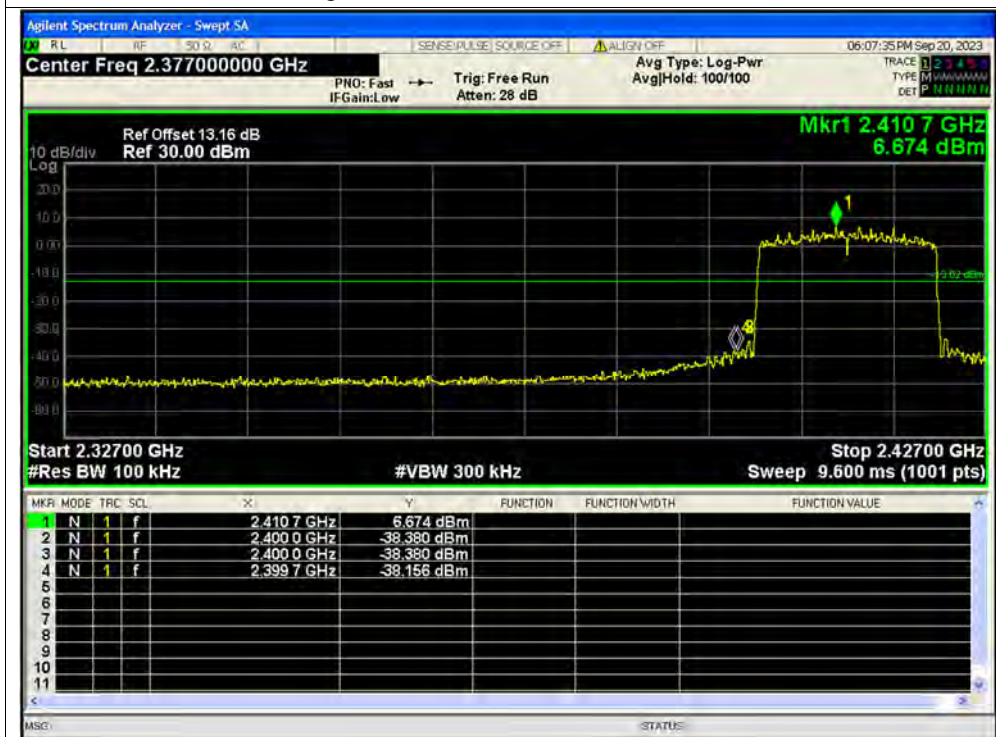




Band Edge NVNT ax20 2412MHz Ant2 Ref

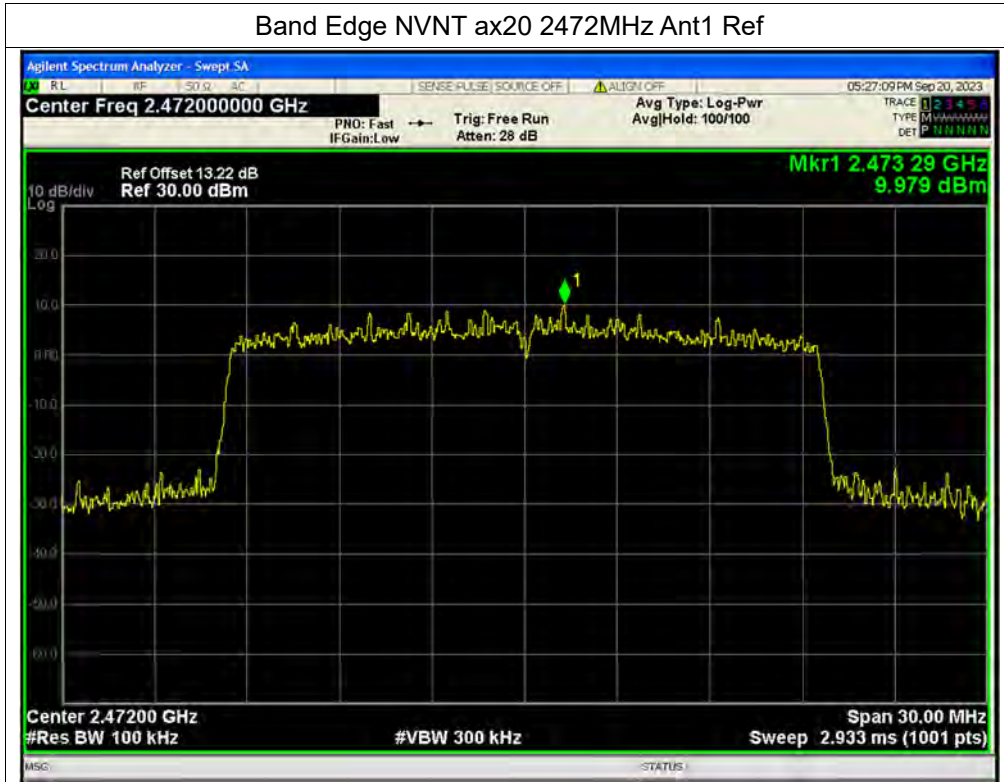


Band Edge NVNT ax20 2412MHz Ant2 Emission

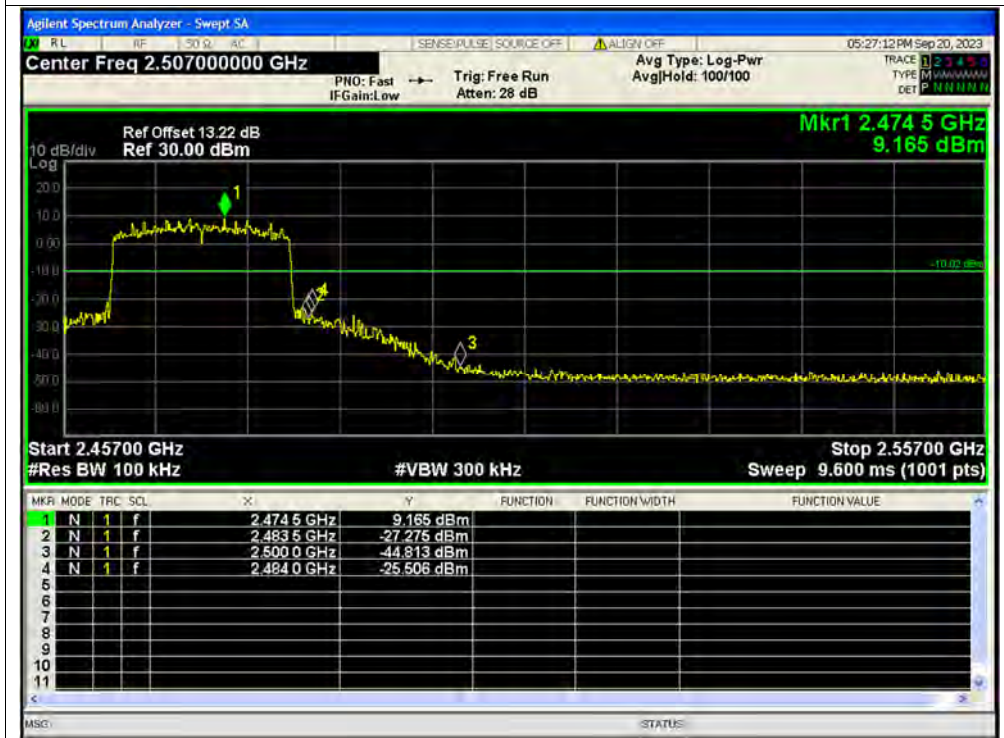




Band Edge NVNT ax20 2472MHz Ant1 Ref



Band Edge NVNT ax20 2472MHz Ant1 Emission

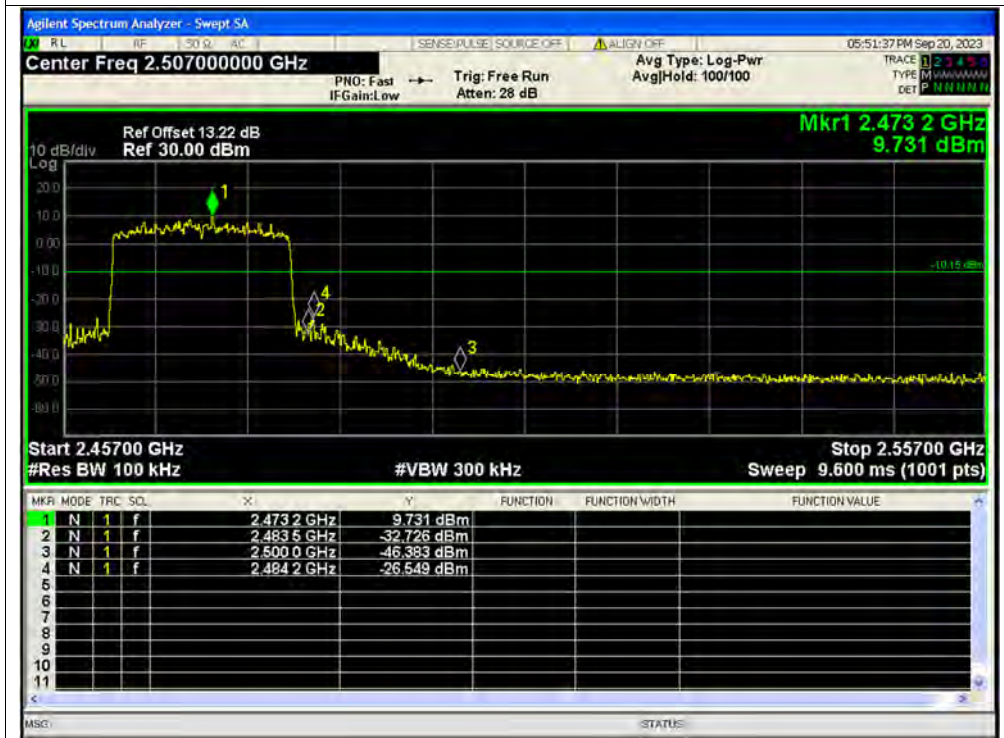




Band Edge NVNT ax20 2472MHz Ant2 Ref

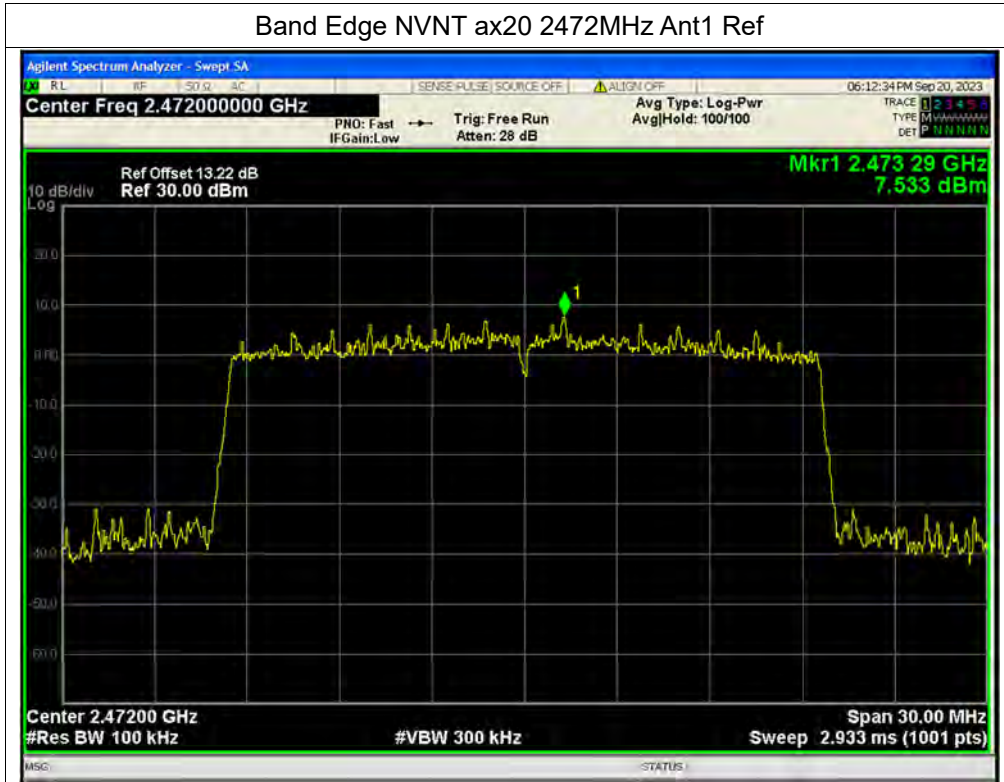


Band Edge NVNT ax20 2472MHz Ant2 Emission

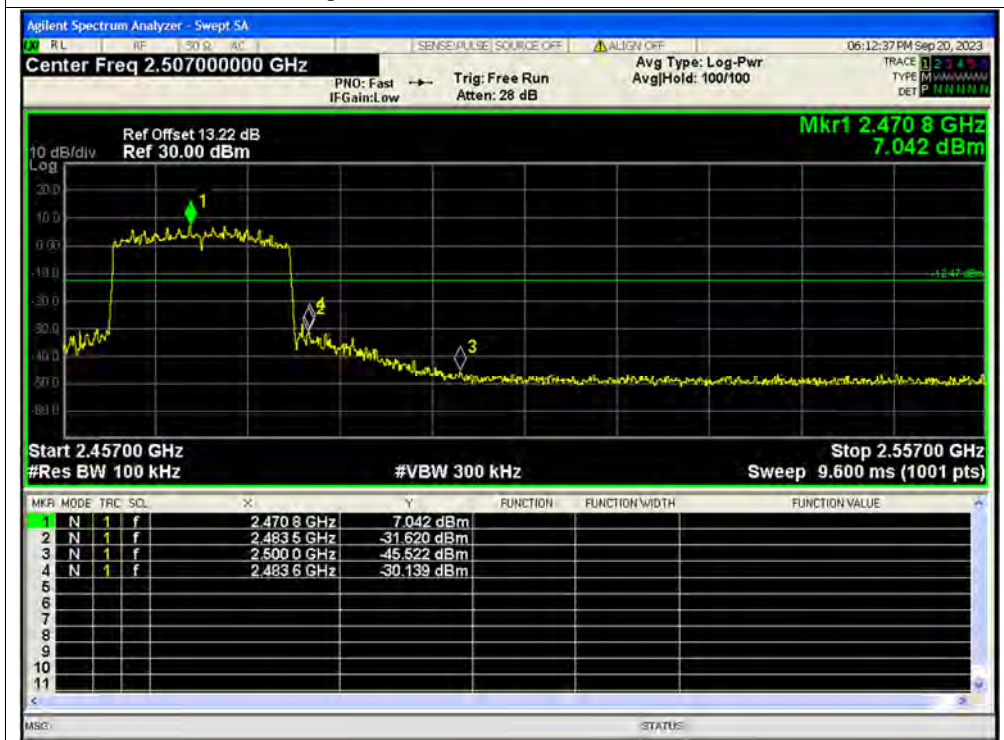




Band Edge NVNT ax20 2472MHz Ant1 Ref



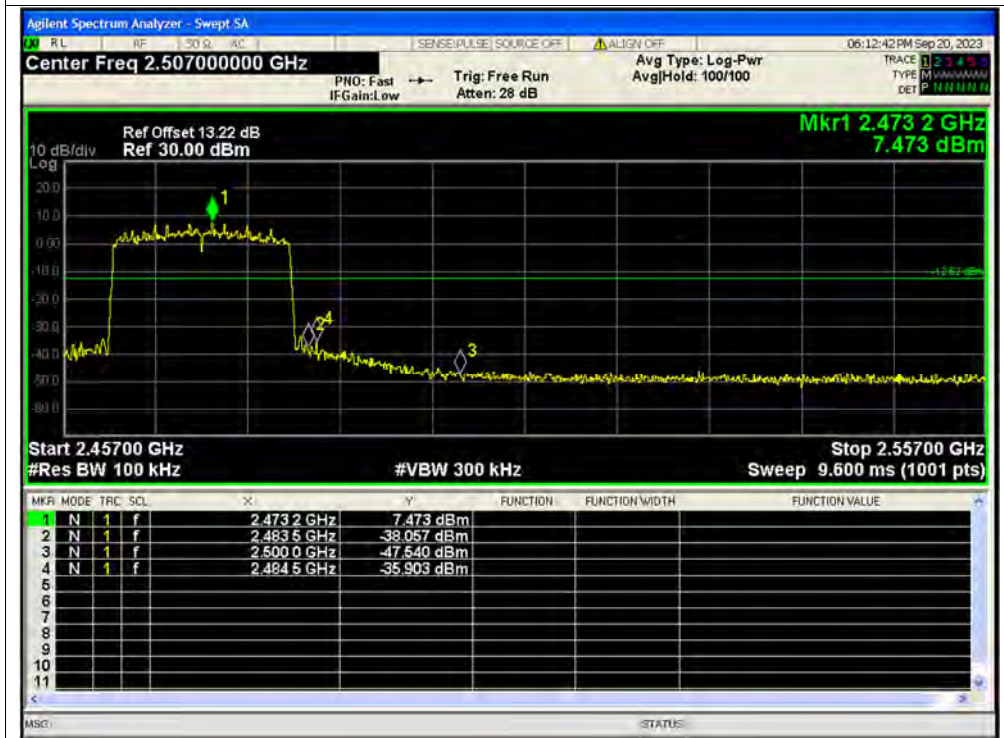
Band Edge NVNT ax20 2472MHz Ant1 Emission



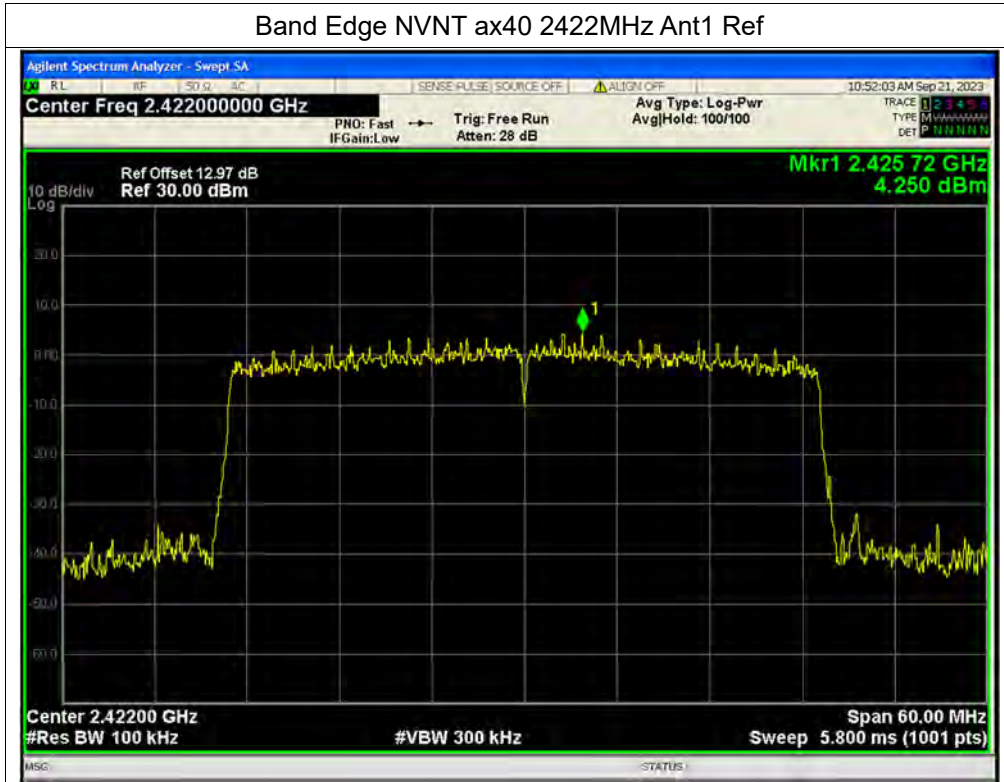
Band Edge NVNT ax20 2472MHz Ant2 Ref



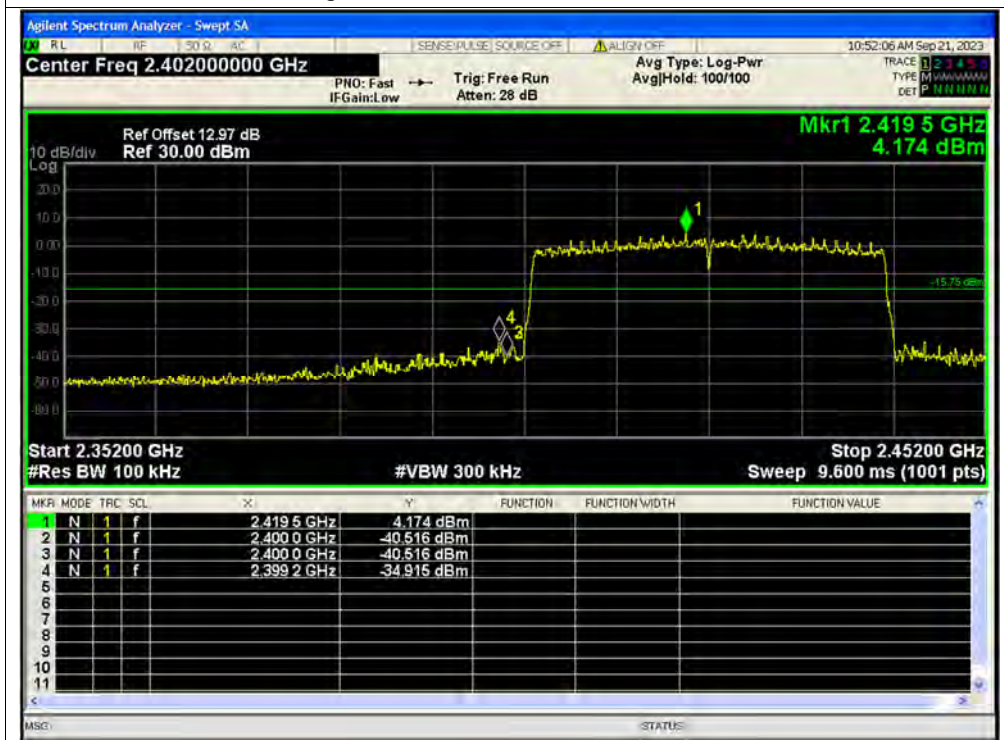
Band Edge NVNT ax20 2472MHz Ant2 Emission



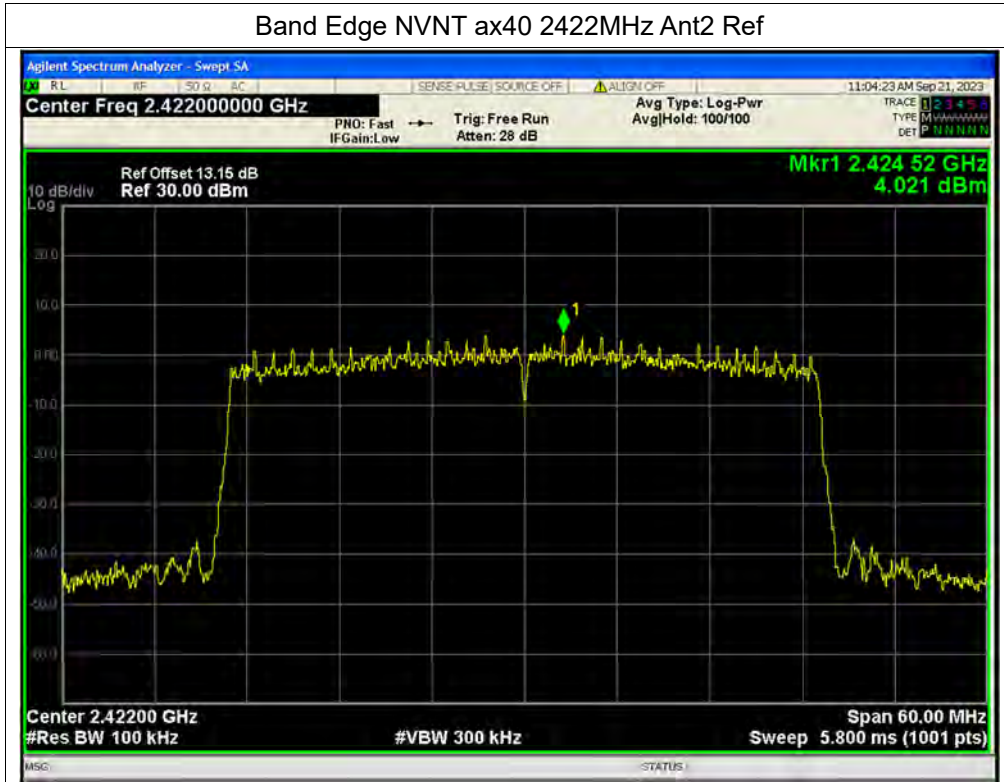
Band Edge NVNT ax40 2422MHz Ant1 Ref



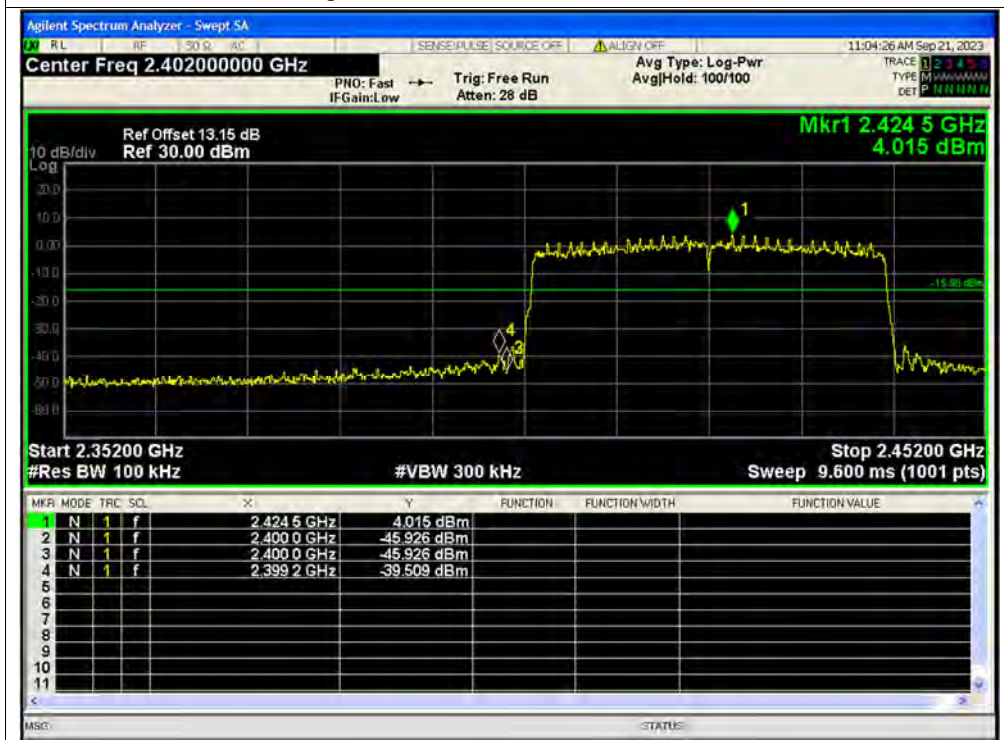
Band Edge NVNT ax40 2422MHz Ant1 Emission



Band Edge NVNT ax40 2422MHz Ant2 Ref

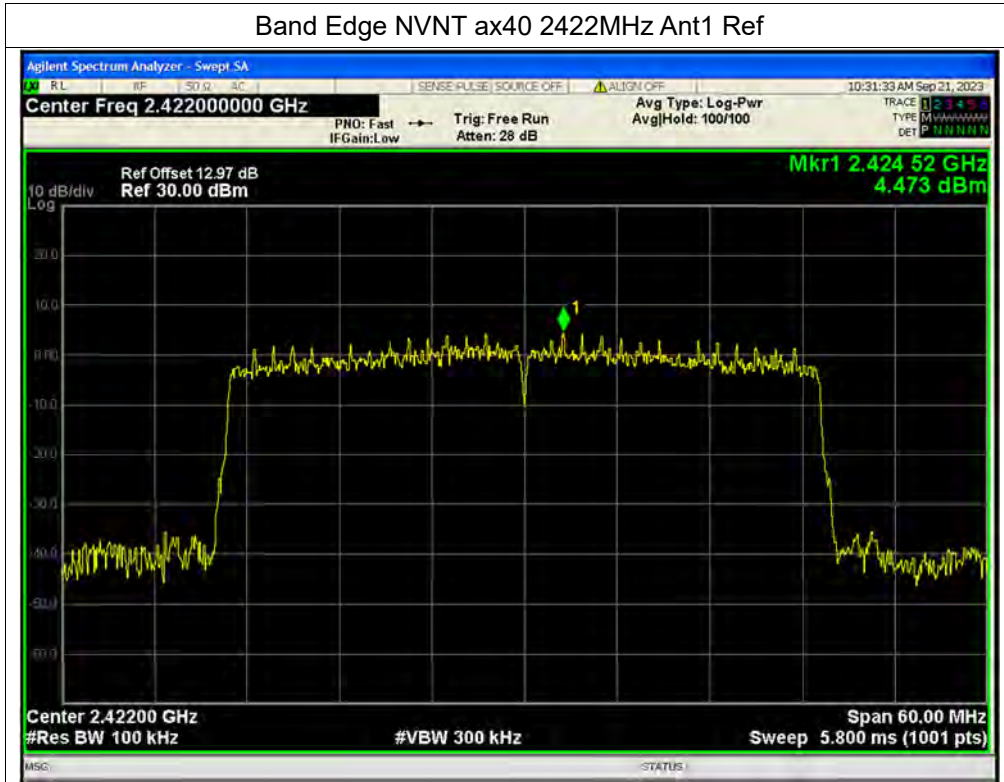


Band Edge NVNT ax40 2422MHz Ant2 Emission

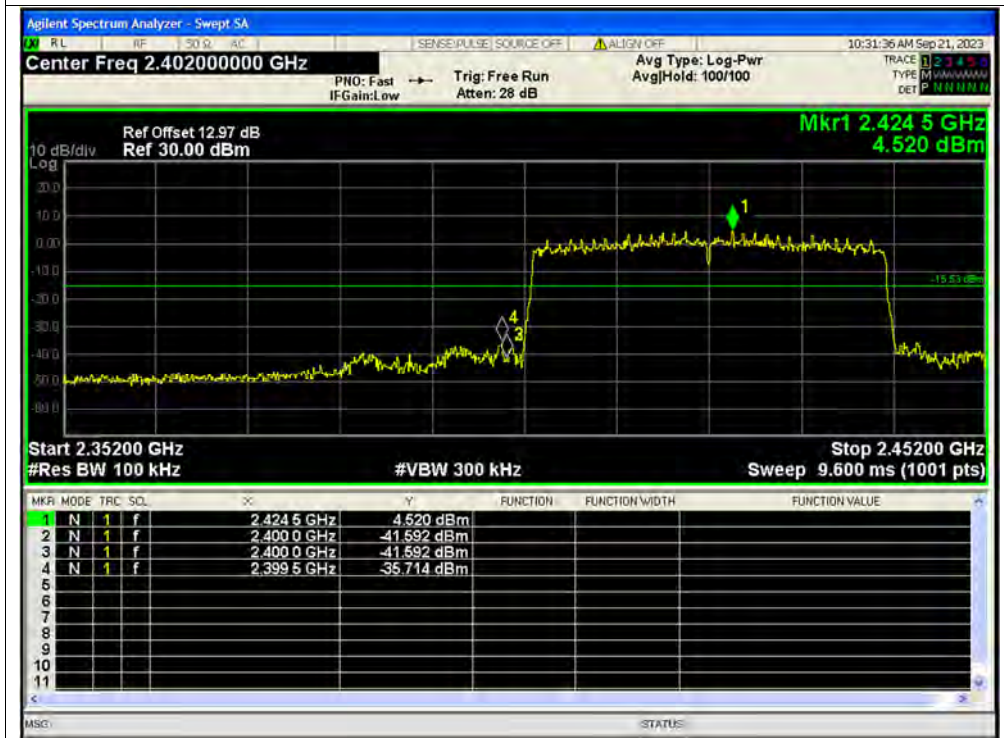




Band Edge NVNT ax40 2422MHz Ant1 Ref

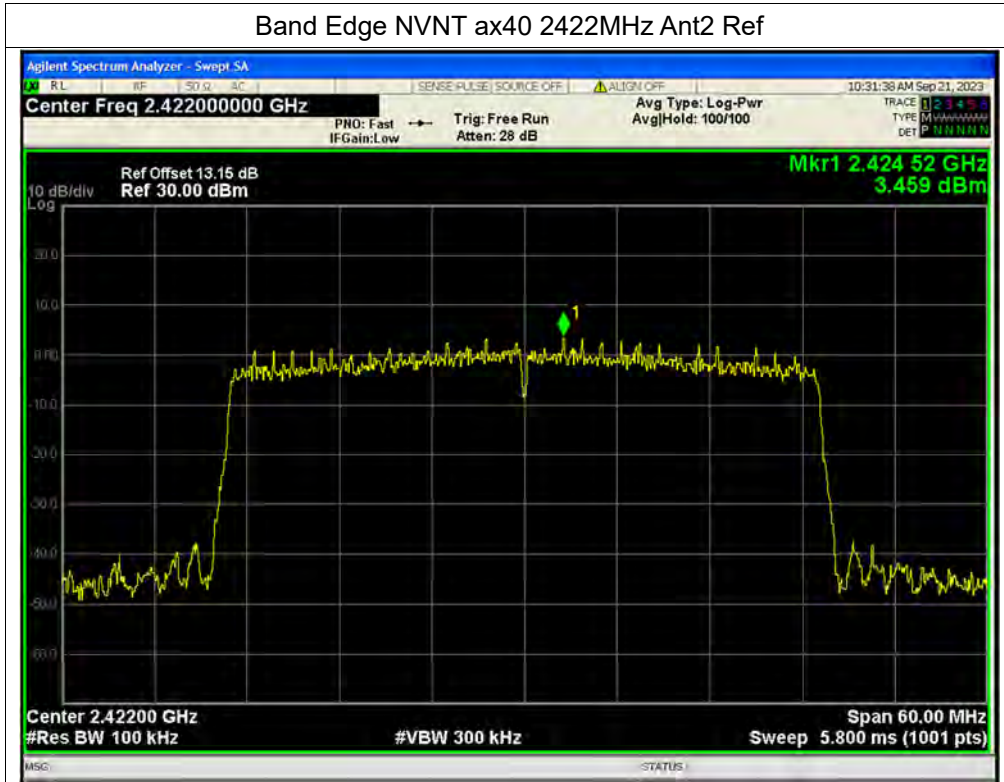


Band Edge NVNT ax40 2422MHz Ant1 Emission

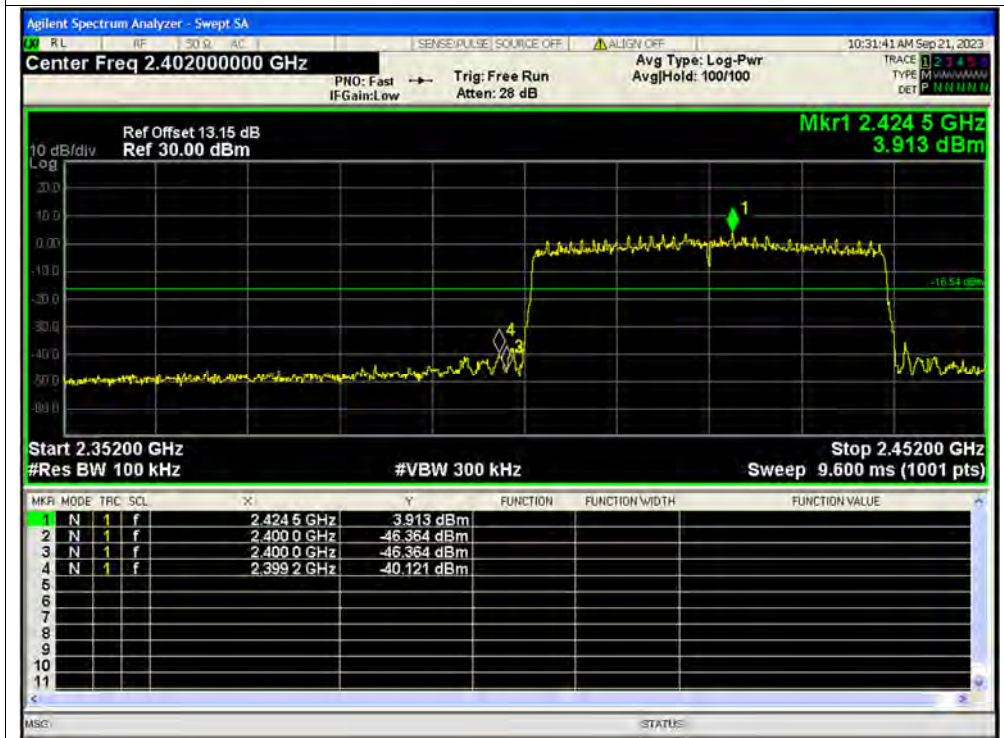




Band Edge NVNT ax40 2422MHz Ant2 Ref

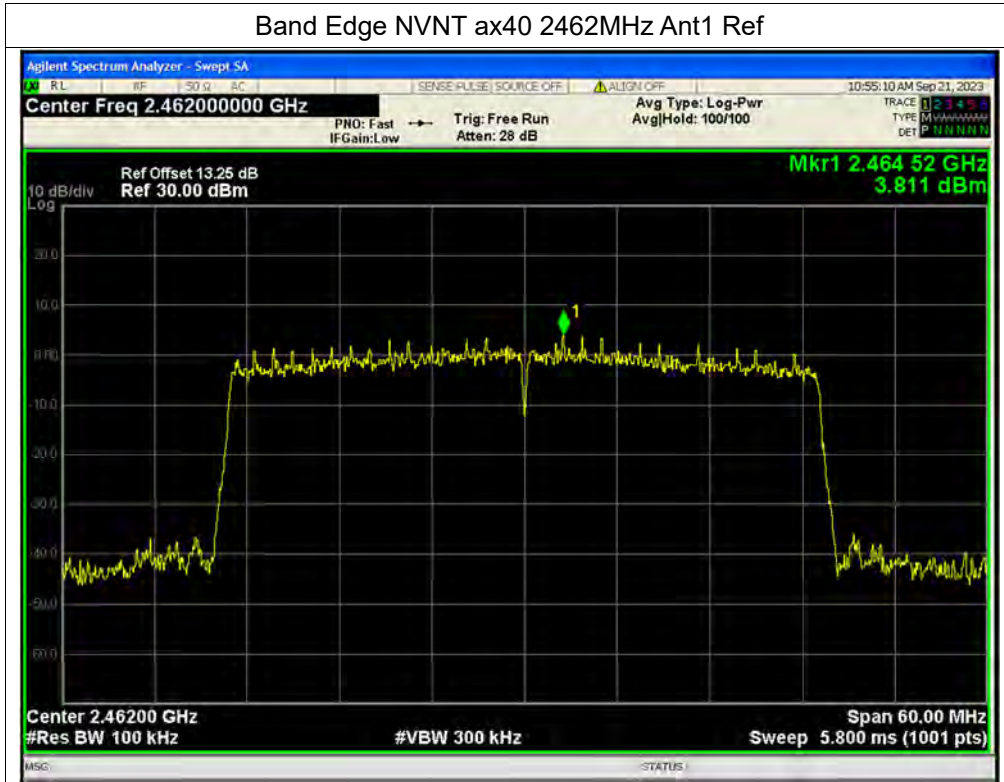


Band Edge NVNT ax40 2422MHz Ant2 Emission

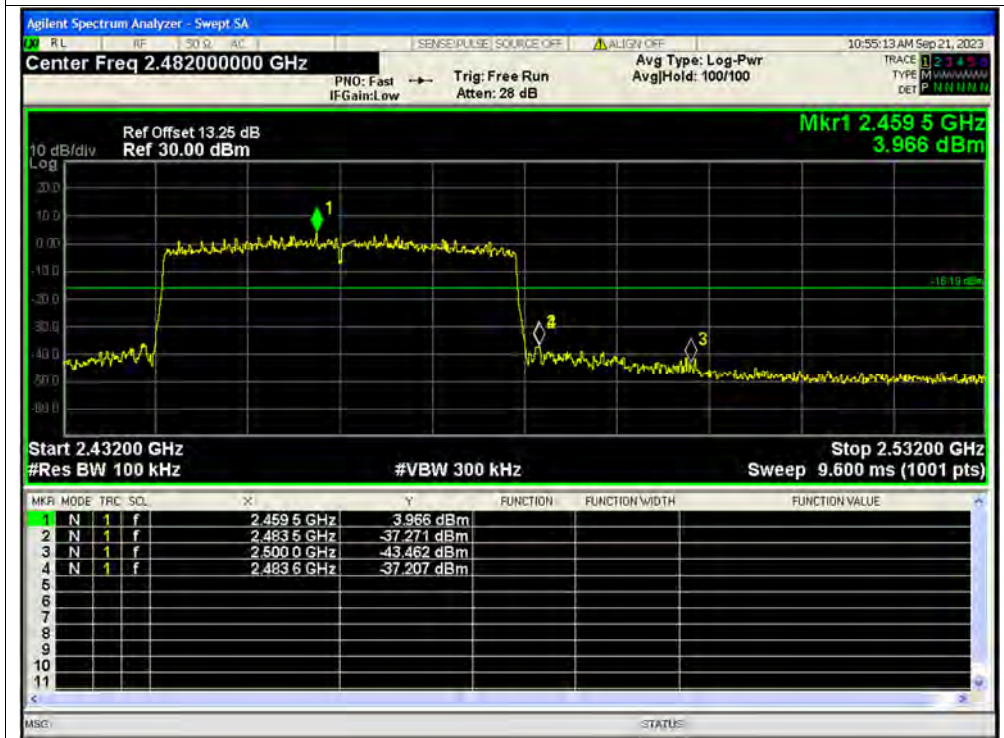




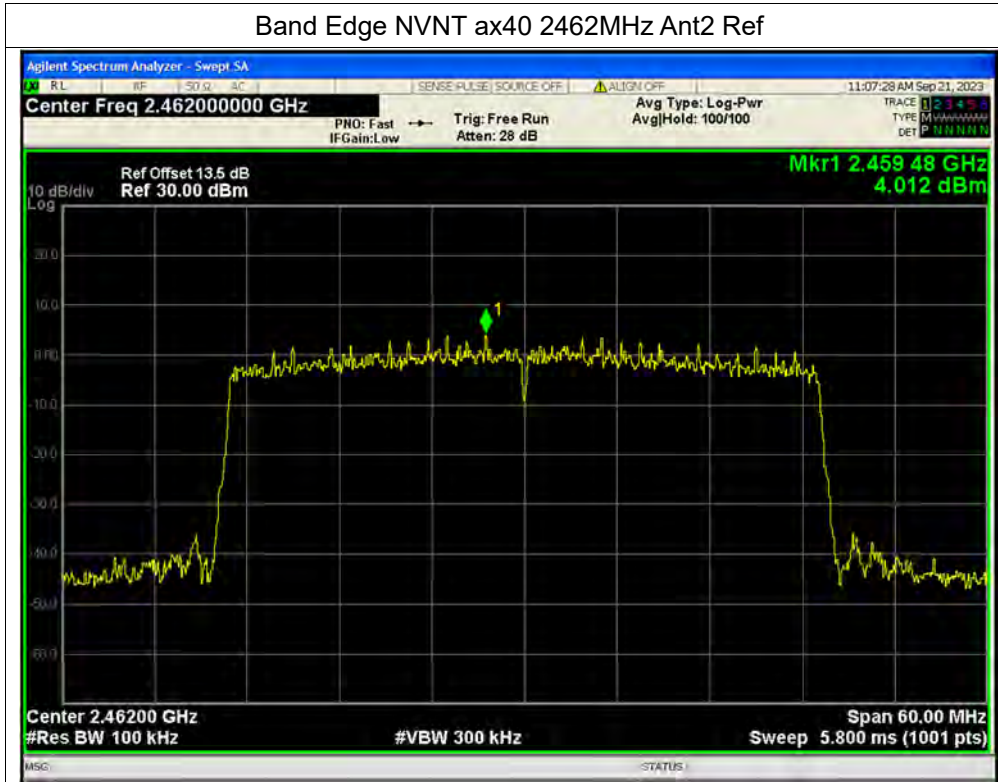
Band Edge NVNT ax40 2462MHz Ant1 Ref



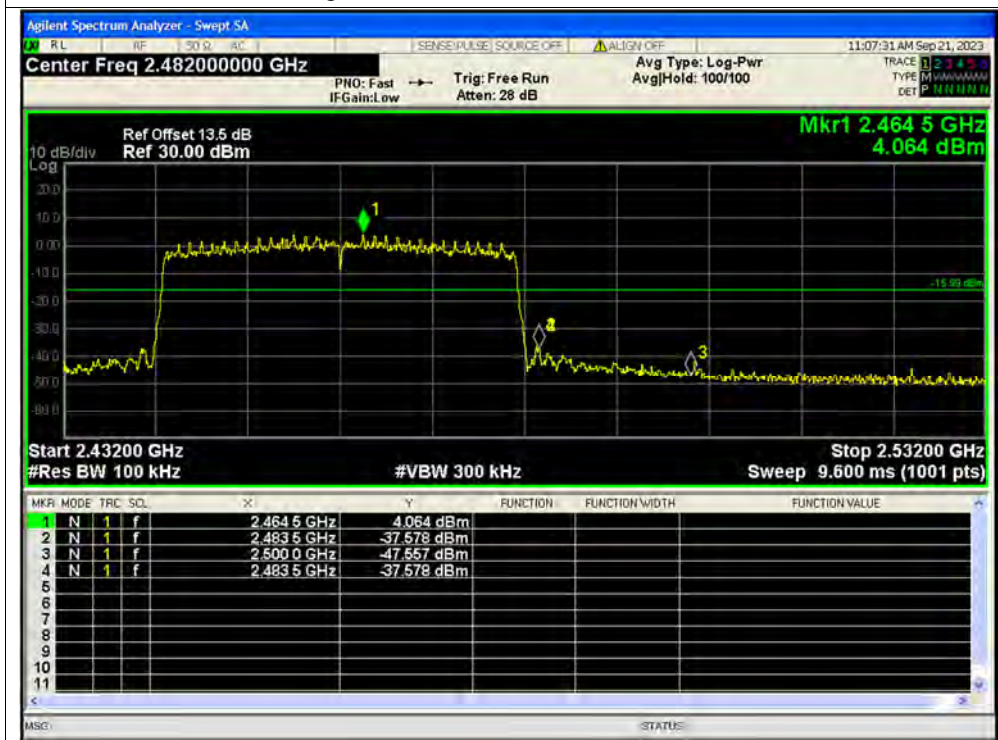
Band Edge NVNT ax40 2462MHz Ant1 Emission



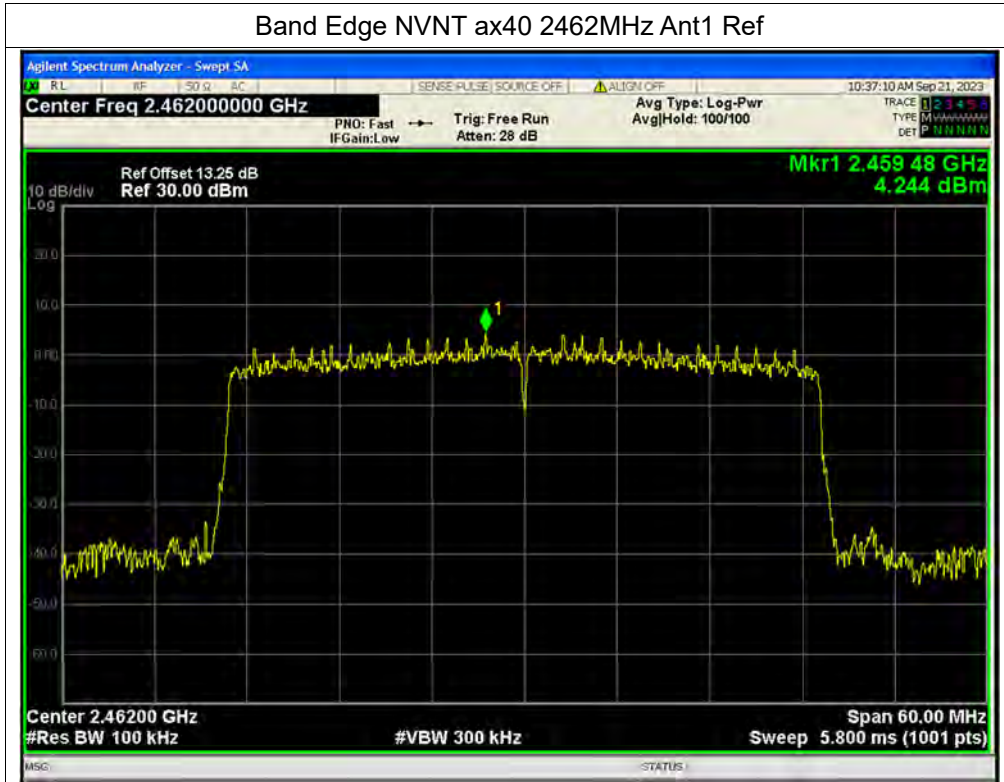
Band Edge NVNT ax40 2462MHz Ant2 Ref



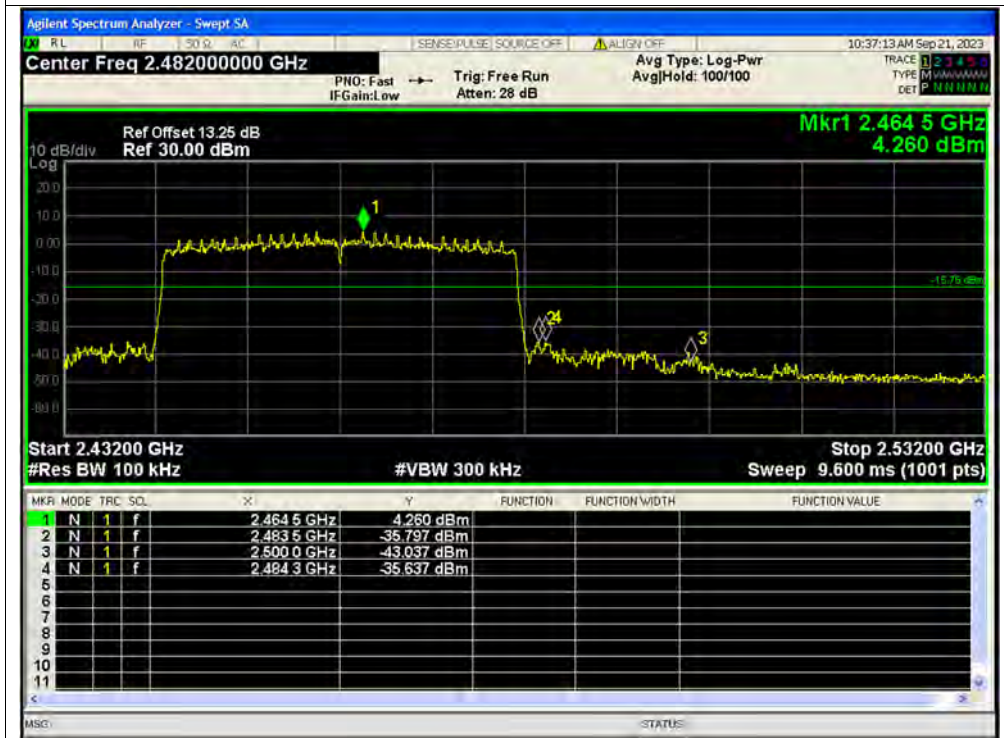
Band Edge NVNT ax40 2462MHz Ant2 Emission



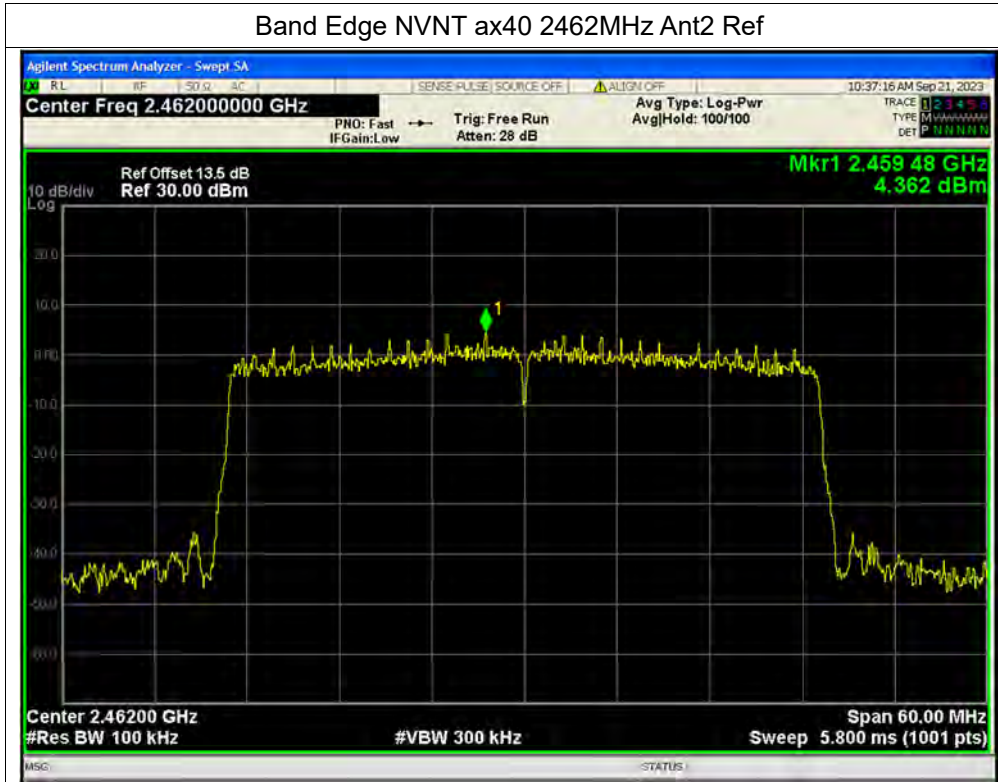
Band Edge NVNT ax40 2462MHz Ant1 Ref



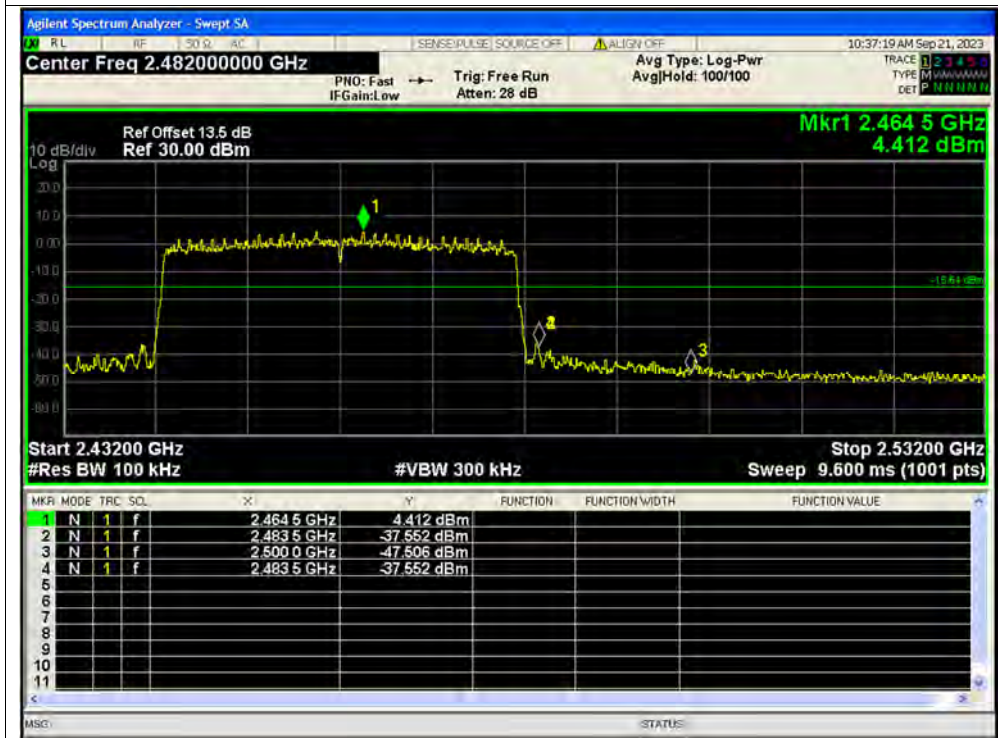
Band Edge NVNT ax40 2462MHz Ant1 Emission



Band Edge NVNT ax40 2462MHz Ant2 Ref



Band Edge NVNT ax40 2462MHz Ant2 Emission



**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	2412	Ant1	3.08	0	3.08	8	Pass
NVNT	b	2412	Ant2	1.88	0	1.88	8	Pass
NVNT	b	2442	Ant1	2.51	0	2.51	8	Pass
NVNT	b	2442	Ant2	2.68	0	2.68	8	Pass
NVNT	b	2472	Ant1	2.46	0	2.46	8	Pass
NVNT	b	2472	Ant2	3.19	0	3.19	8	Pass
NVNT	g	2412	Ant1	-3.69	0	-3.69	8	Pass
NVNT	g	2412	Ant2	-4.73	0	-4.73	8	Pass
NVNT	g	2442	Ant1	-3.29	0	-3.29	8	Pass
NVNT	g	2442	Ant2	-4.48	0	-4.48	8	Pass
NVNT	g	2472	Ant1	-4.25	0	-4.25	8	Pass
NVNT	g	2472	Ant2	-5.13	0	-5.13	8	Pass
NVNT	n20	2412	Ant1	-3.63	0	-3.63	8	Pass
NVNT	n20	2412	Ant2	-4.31	0	-4.31	8	Pass
NVNT	n20	2412	Ant1	-4.61	0	-4.61	8	Pass
NVNT	n20	2412	Ant2	-5.99	0	-5.99	8	Pass
NVNT	n20	2412	Sum	-2.24	0	-2.24	8	Pass
NVNT	n20	2442	Ant1	-3.52	0	-3.52	8	Pass
NVNT	n20	2442	Ant2	-5.14	0	-5.14	8	Pass
NVNT	n20	2442	Ant1	-4.63	0	-4.63	8	Pass
NVNT	n20	2442	Ant2	-5.8	0	-5.8	8	Pass
NVNT	n20	2442	Sum	-2.17	0	-2.17	8	Pass
NVNT	n20	2472	Ant1	-4.19	0	-4.19	8	Pass
NVNT	n20	2472	Ant2	-4.3	0	-4.3	8	Pass
NVNT	n20	2472	Ant1	-5.63	0	-5.63	8	Pass
NVNT	n20	2472	Ant2	-5.58	0	-5.58	8	Pass
NVNT	n20	2472	Sum	-2.59	0	-2.59	8	Pass
NVNT	n40	2422	Ant1	-9.06	0	-9.06	8	Pass
NVNT	n40	2422	Ant2	-10.09	0	-10.09	8	Pass
NVNT	n40	2422	Ant1	-9.59	0	-9.59	8	Pass
NVNT	n40	2422	Ant2	-9.53	0	-9.53	8	Pass
NVNT	n40	2422	Sum	-6.55	0	-6.55	8	Pass
NVNT	n40	2442	Ant1	-9.23	0	-9.23	8	Pass
NVNT	n40	2442	Ant2	-9.51	0	-9.51	8	Pass



NVNT	n40	2442	Ant1	-9.55	0	-9.55	8	Pass
NVNT	n40	2442	Ant2	-8.99	0	-8.99	8	Pass
NVNT	n40	2442	Sum	-6.25	0	-6.25	8	Pass
NVNT	n40	2462	Ant1	-10.16	0	-10.16	8	Pass
NVNT	n40	2462	Ant2	-9.55	0	-9.55	8	Pass
NVNT	n40	2462	Ant1	-9.36	0	-9.36	8	Pass
NVNT	n40	2462	Ant2	-9.16	0	-9.16	8	Pass
NVNT	n40	2462	Sum	-6.25	0	-6.25	8	Pass
NVNT	ax20	2412	Ant1	-5.12	0	-5.12	8	Pass
NVNT	ax20	2412	Ant2	-6.14	0	-6.14	8	Pass
NVNT	ax20	2412	Ant1	-6.76	0	-6.76	8	Pass
NVNT	ax20	2412	Ant2	-7.59	0	-7.59	8	Pass
NVNT	ax20	2412	Sum	-4.14	0	-4.14	8	Pass
NVNT	ax20	2442	Ant1	-5.1	0	-5.1	8	Pass
NVNT	ax20	2442	Ant2	-6.04	0	-6.04	8	Pass
NVNT	ax20	2442	Ant1	-6.99	0	-6.99	8	Pass
NVNT	ax20	2442	Ant2	-7.65	0	-7.65	8	Pass
NVNT	ax20	2442	Sum	-4.3	0	-4.3	8	Pass
NVNT	ax20	2472	Ant1	-5.42	0	-5.42	8	Pass
NVNT	ax20	2472	Ant2	-5.21	0	-5.21	8	Pass
NVNT	ax20	2472	Ant1	-7.6	0	-7.6	8	Pass
NVNT	ax20	2472	Ant2	-7.23	0	-7.23	8	Pass
NVNT	ax20	2472	Sum	-4.4	0	-4.4	8	Pass
NVNT	ax40	2422	Ant1	-10.78	0	-10.78	8	Pass
NVNT	ax40	2422	Ant2	-10.3	0	-10.3	8	Pass
NVNT	ax40	2422	Ant1	-9.61	0	-9.61	8	Pass
NVNT	ax40	2422	Ant2	-10.94	0	-10.94	8	Pass
NVNT	ax40	2422	Sum	-7.21	0	-7.21	8	Pass
NVNT	ax40	2442	Ant1	-11.11	0	-11.11	8	Pass
NVNT	ax40	2442	Ant2	-10.7	0	-10.7	8	Pass
NVNT	ax40	2442	Ant1	-10.15	0	-10.15	8	Pass
NVNT	ax40	2442	Ant2	-10.91	0	-10.91	8	Pass
NVNT	ax40	2442	Sum	-7.5	0	-7.5	8	Pass
NVNT	ax40	2462	Ant1	-11.3	0	-11.3	8	Pass
NVNT	ax40	2462	Ant2	-11.04	0	-11.04	8	Pass
NVNT	ax40	2462	Ant1	-10.49	0	-10.49	8	Pass
NVNT	ax40	2462	Ant2	-10.33	0	-10.33	8	Pass
NVNT	ax40	2462	Sum	-7.4	0	-7.4	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2412MHz Ant2





PSD NVNT b 2442MHz Ant1

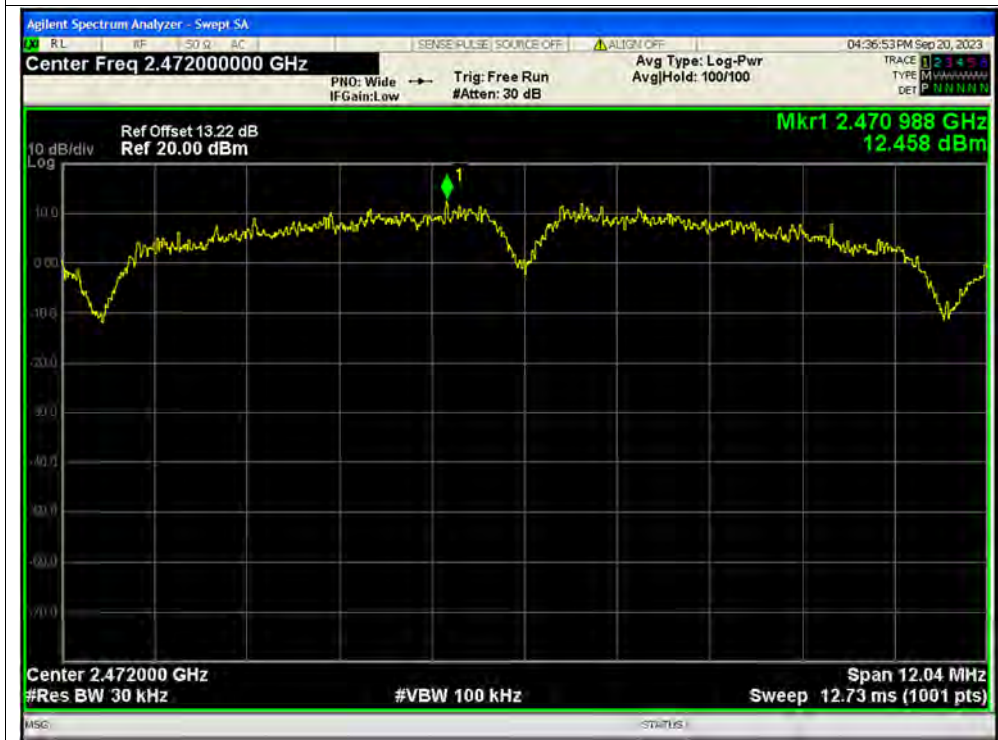


PSD NVNT b 2442MHz Ant2





PSD NVNT b 2472MHz Ant1

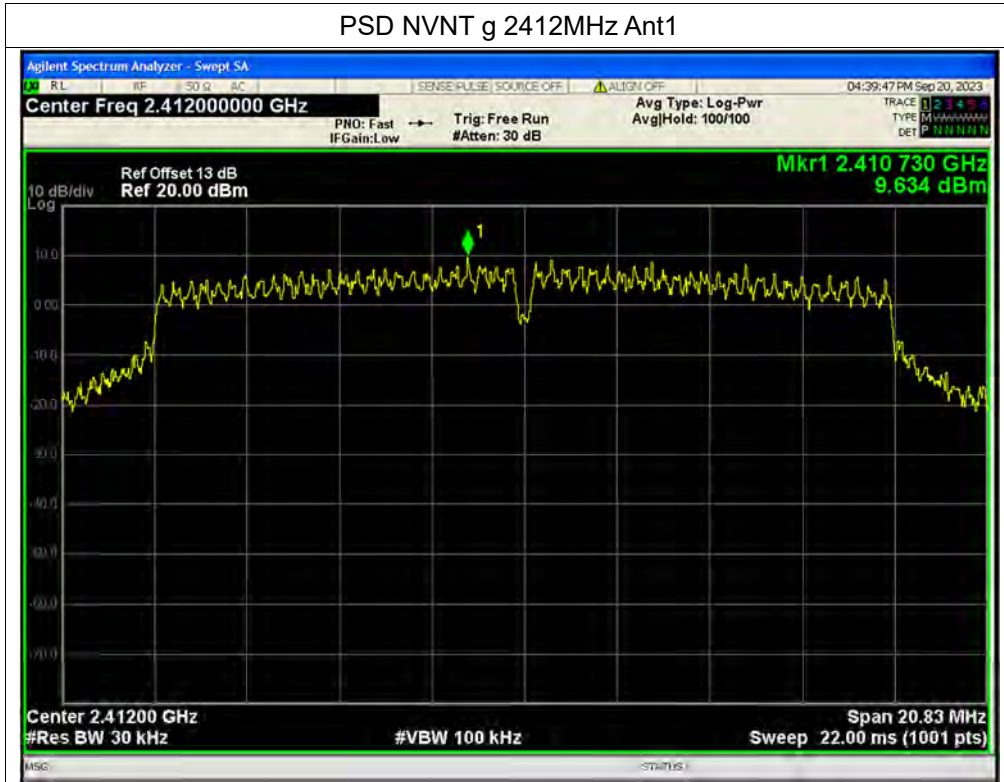


PSD NVNT b 2472MHz Ant2

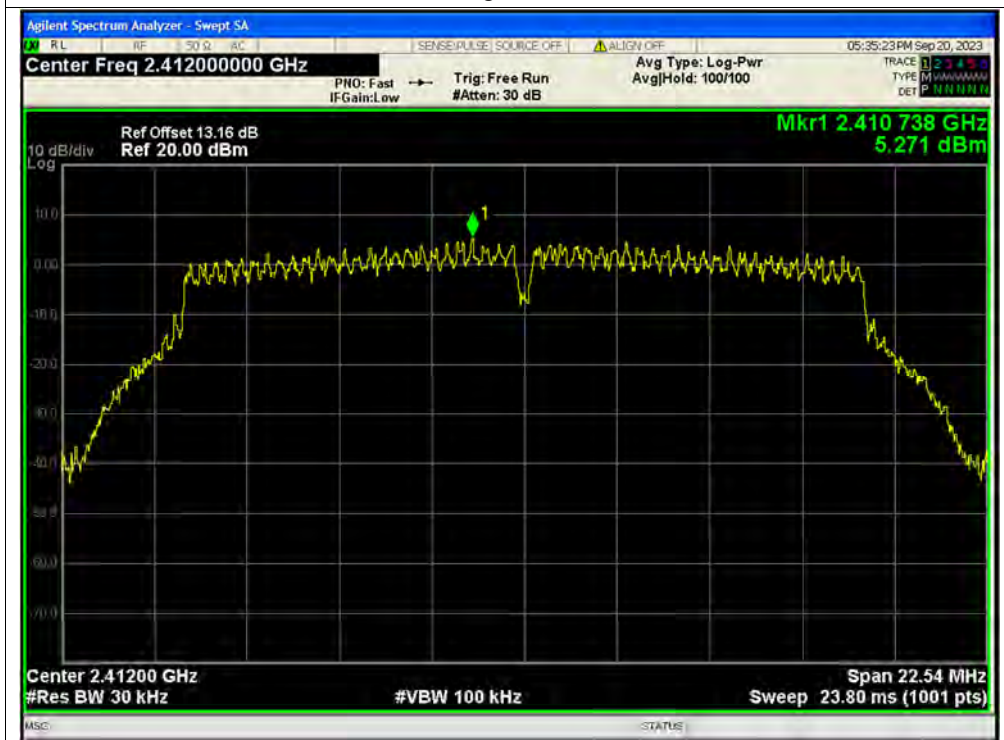




PSD NVNT g 2412MHz Ant1

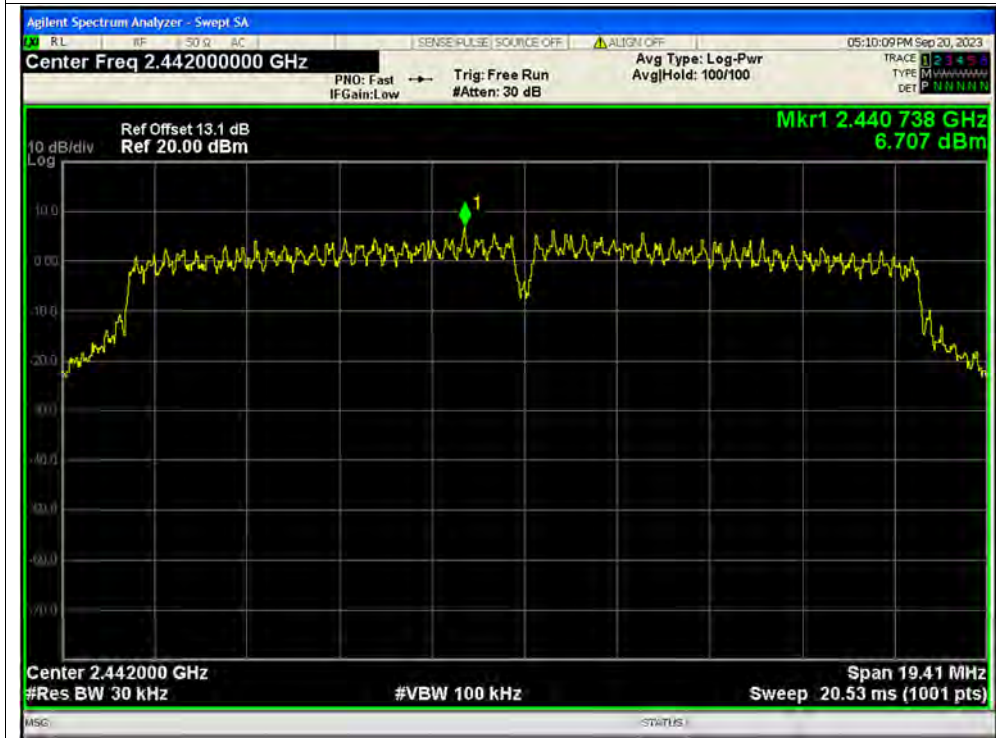


PSD NVNT g 2412MHz Ant2

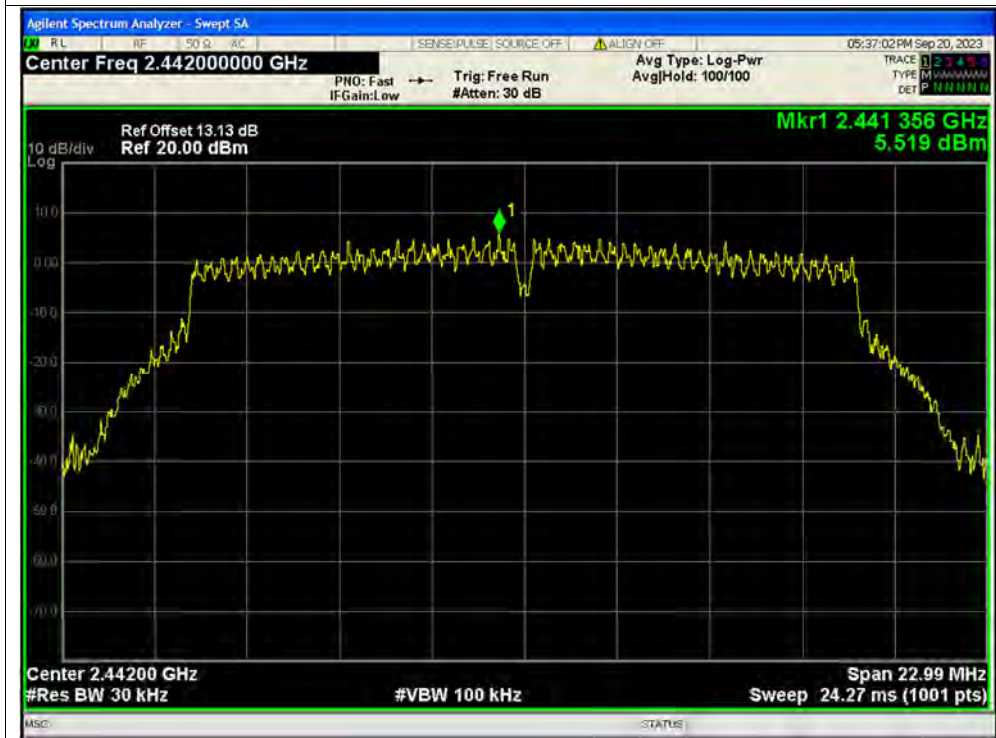




PSD NVNT g 2442MHz Ant1



PSD NVNT g 2442MHz Ant2

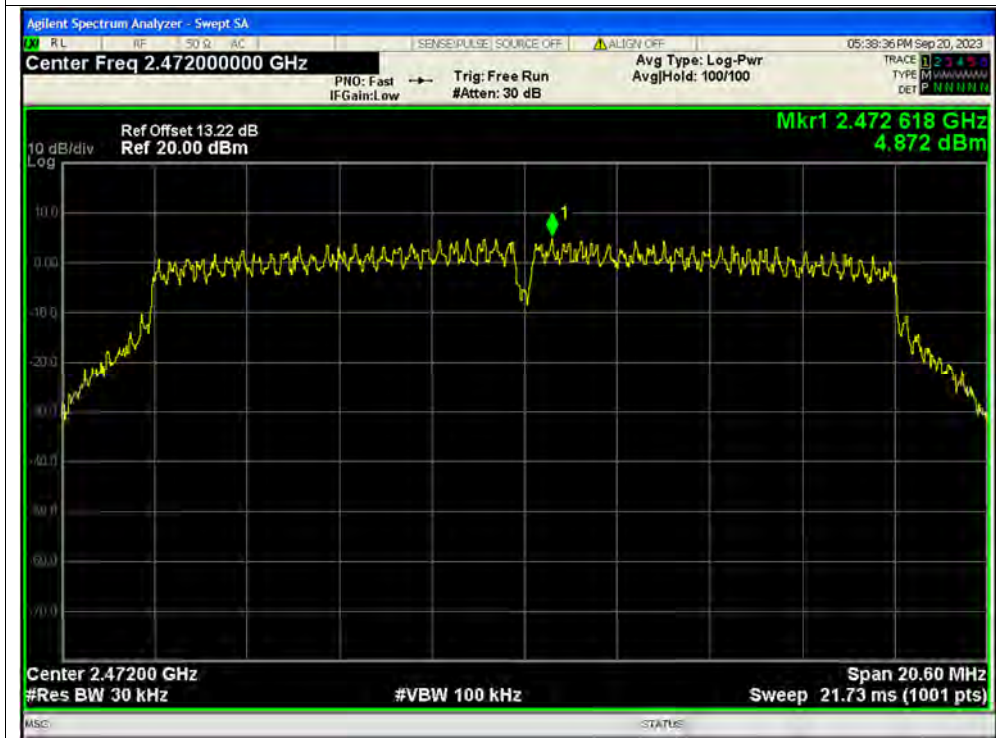




PSD NVNT g 2472MHz Ant1

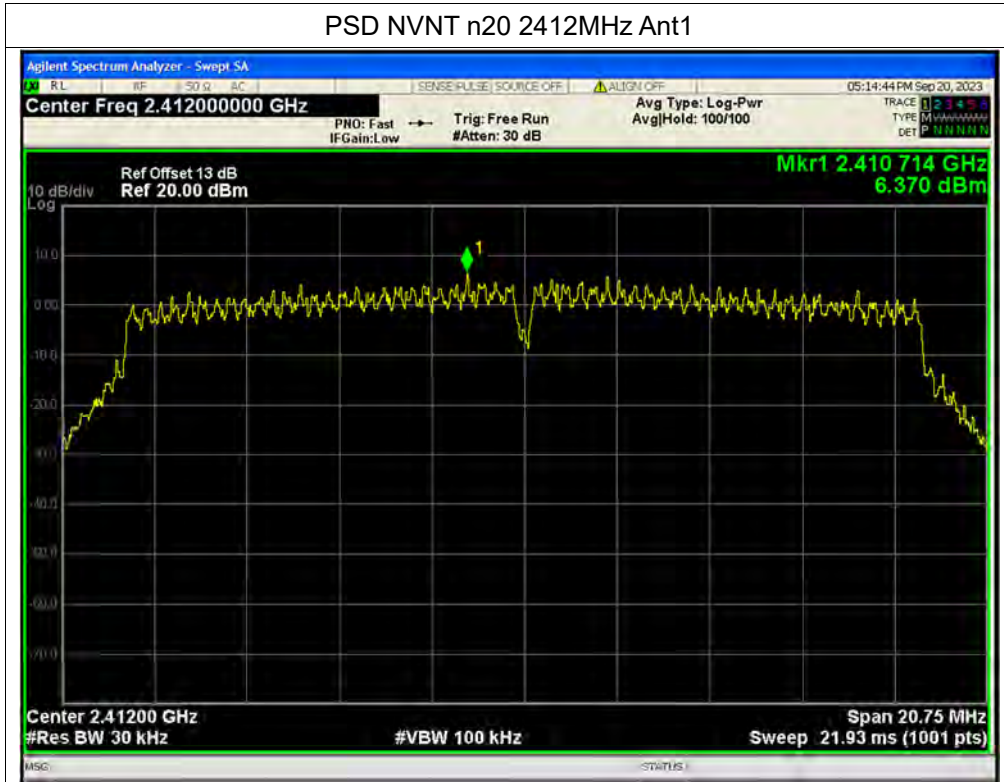


PSD NVNT g 2472MHz Ant2

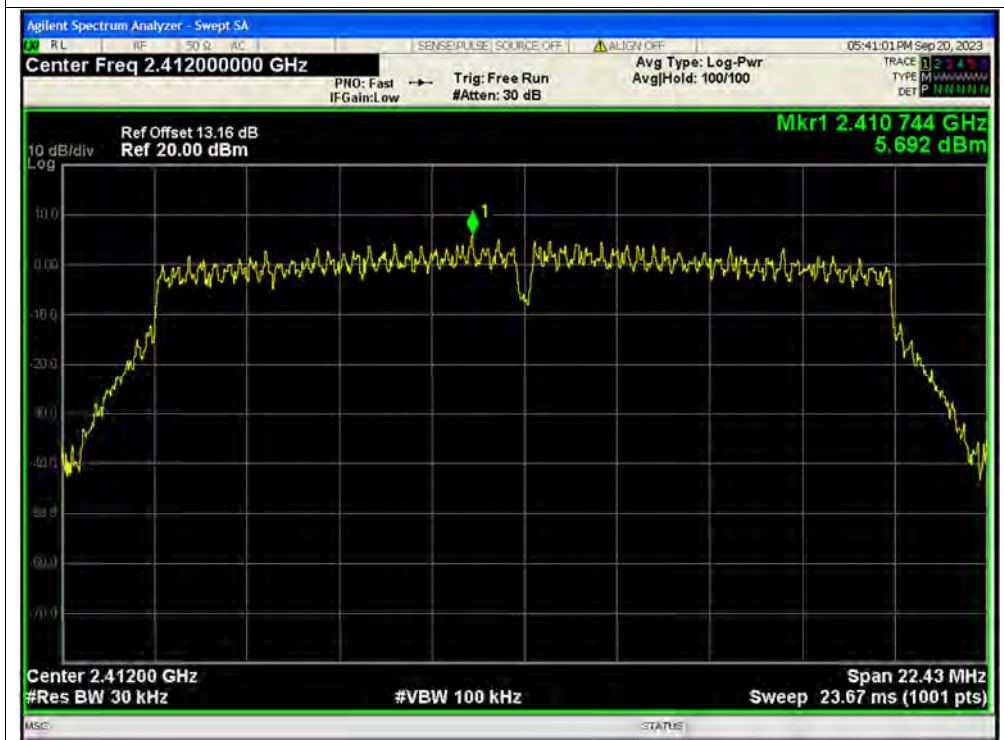




PSD NVNT n20 2412MHz Ant1

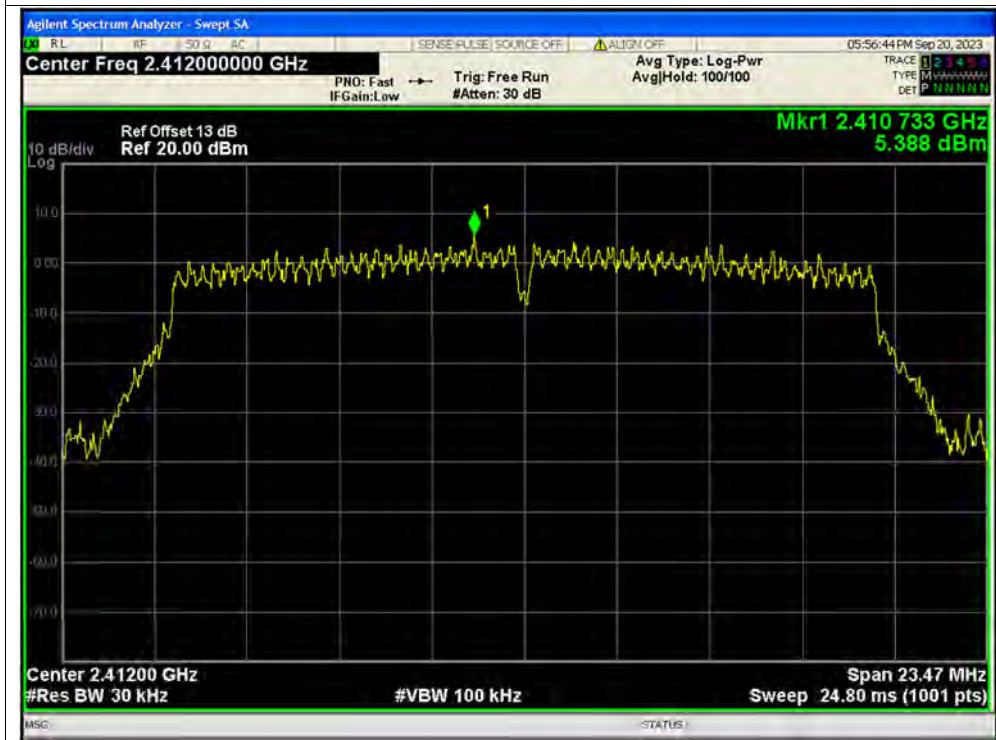


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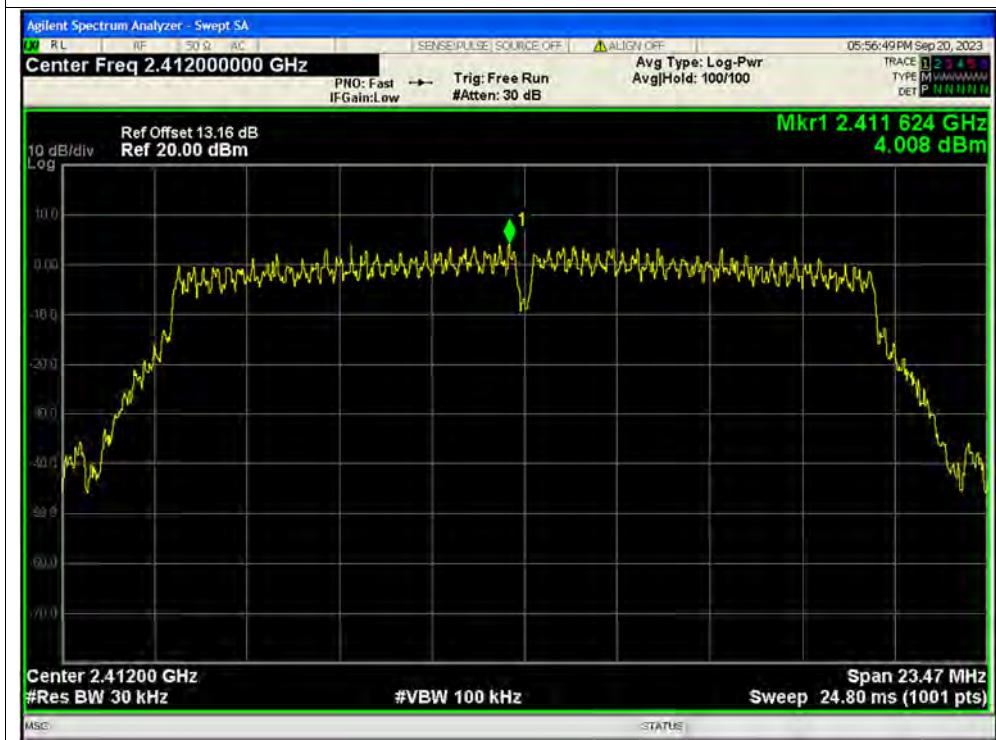




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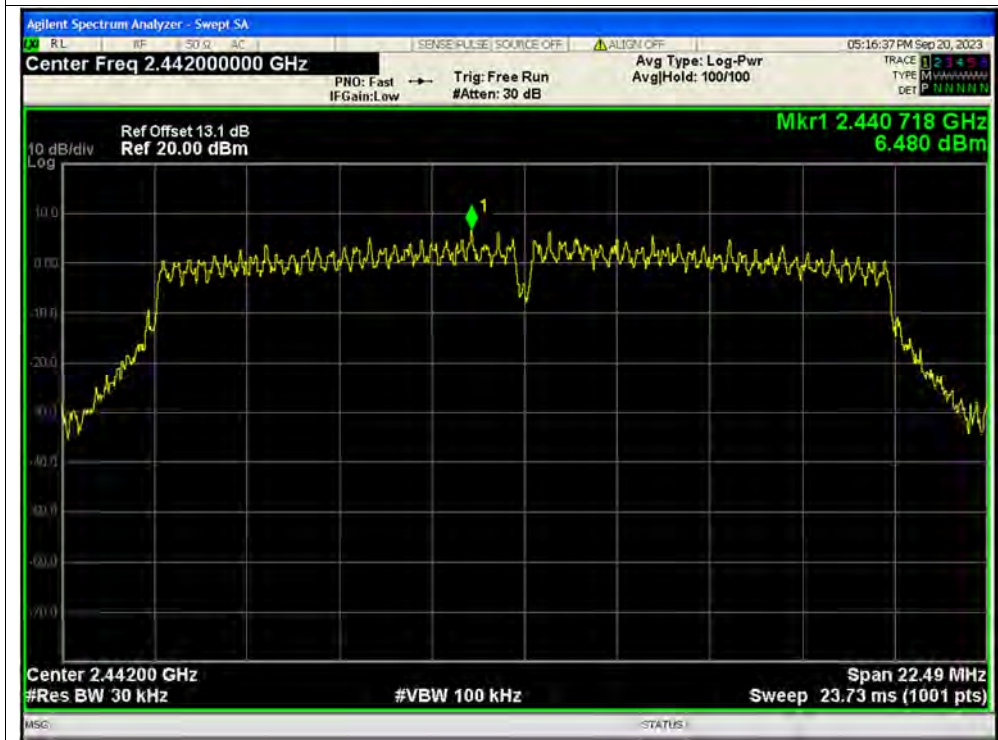


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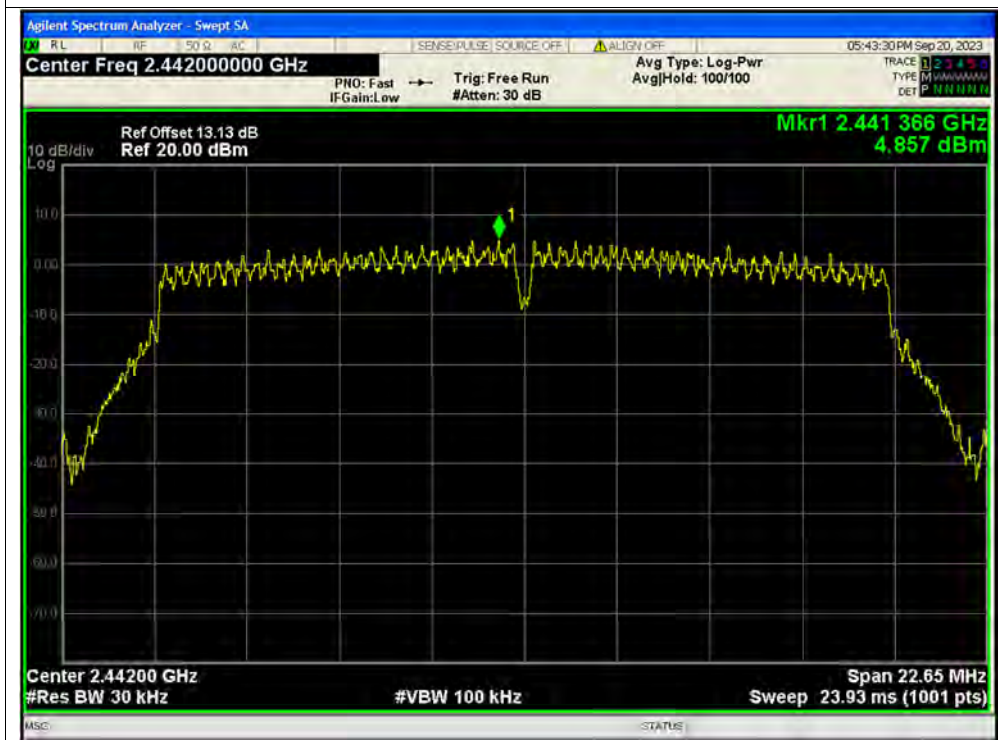




PSD NVNT n20 2442MHz Ant1

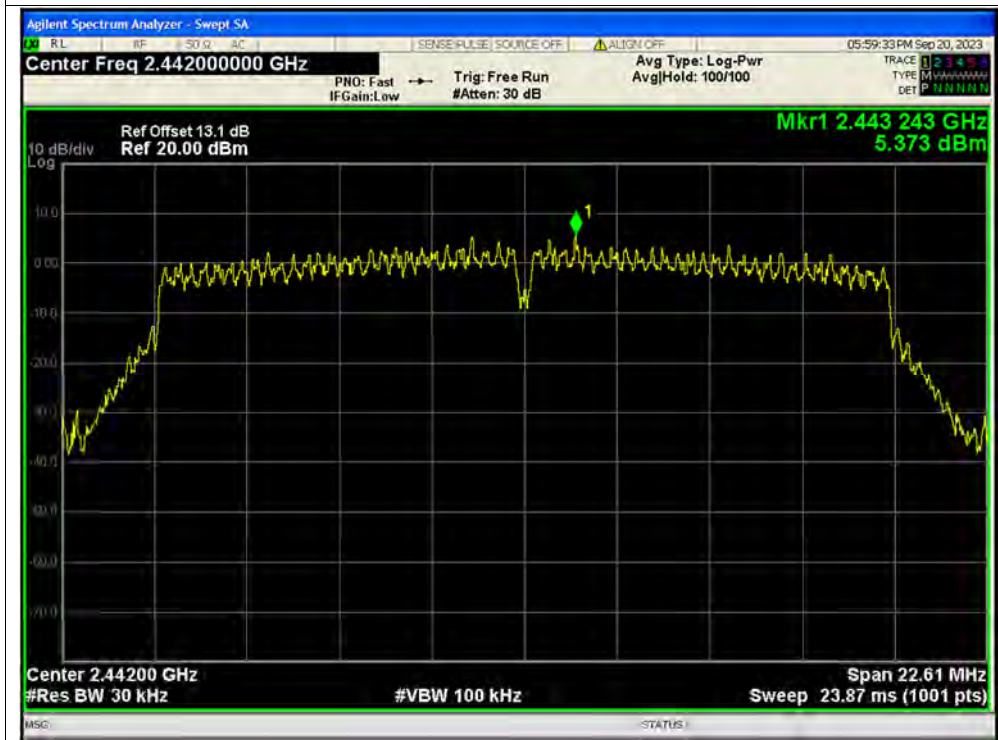


PSD NVNT n20 2442MHz Ant2

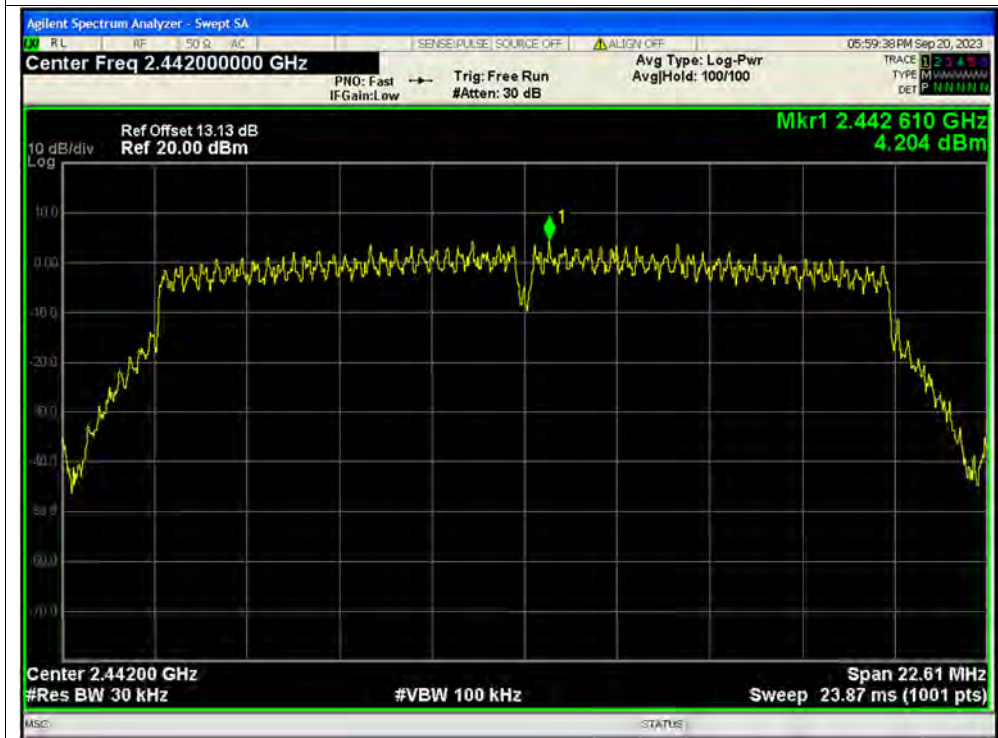




PSD NVNT n20 2442MHz Ant1

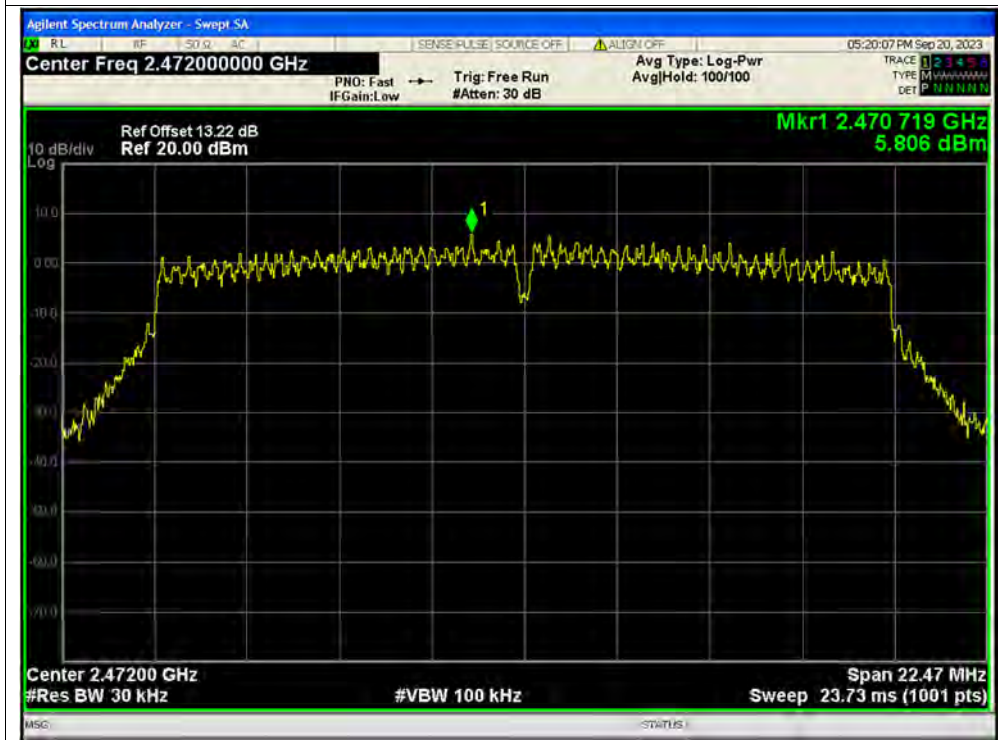


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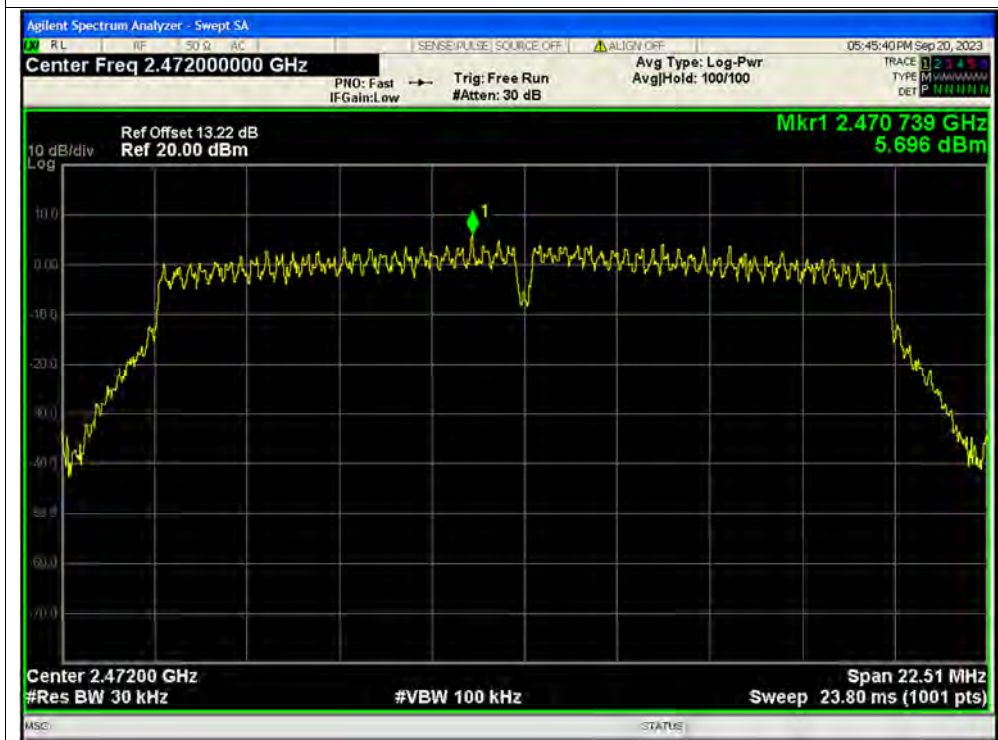




PSD NVNT n20 2472MHz Ant1

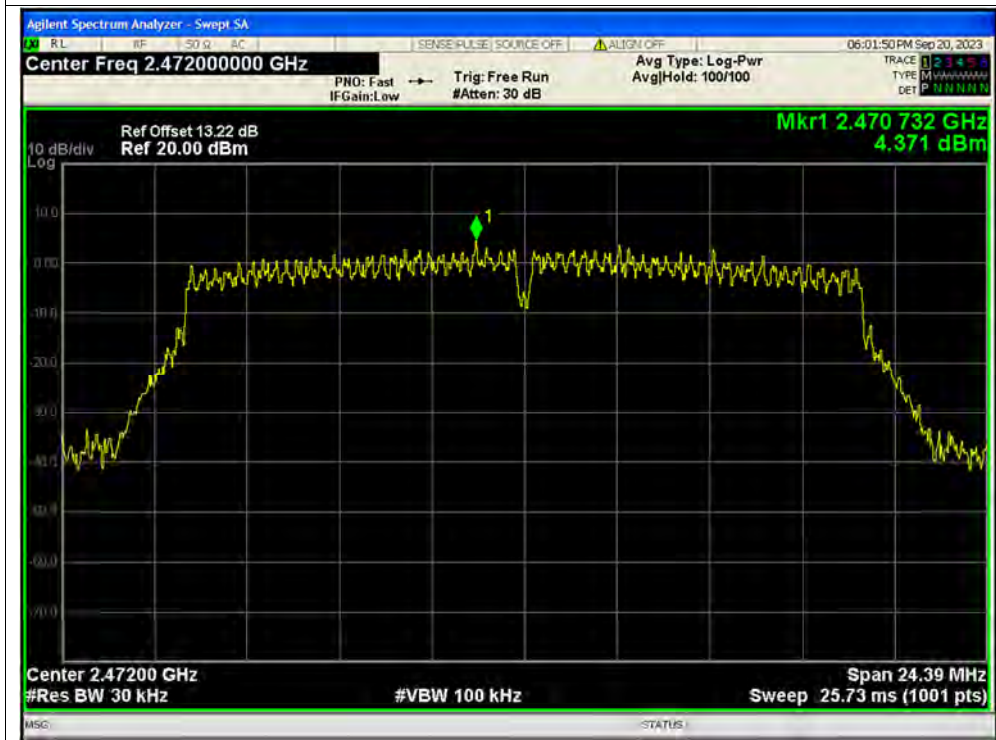


PSD NVNT n20 2472MHz Ant2

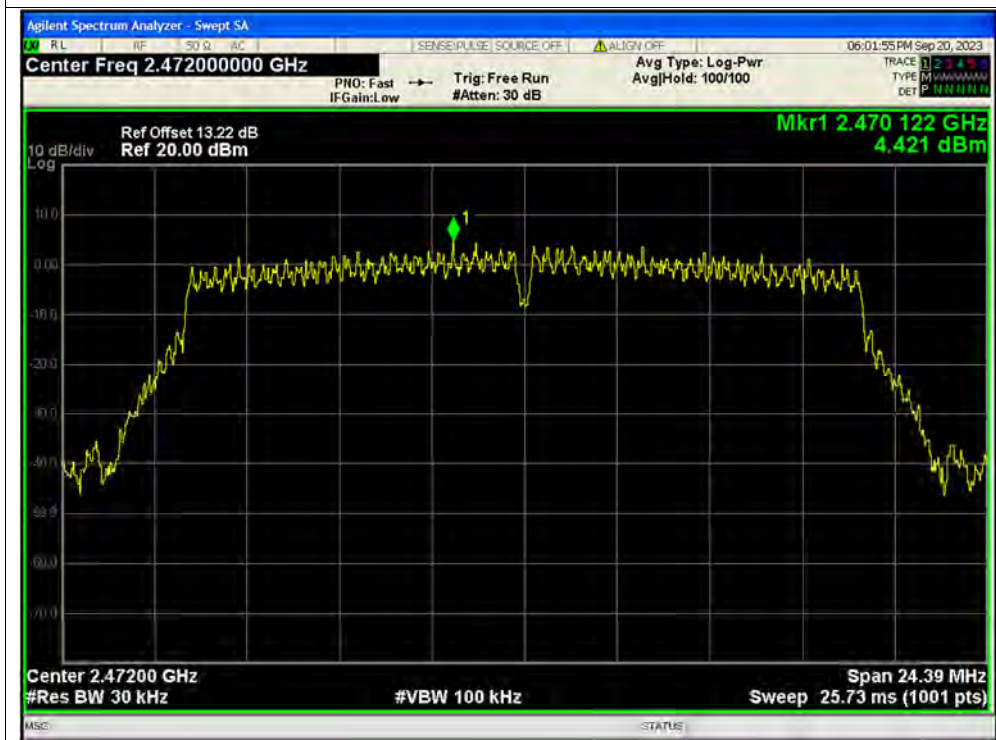




PSD NVNT n20 2472MHz Ant1



PSD NVNT n20 2472MHz Ant2





PSD NVNT n40 2422MHz Ant1

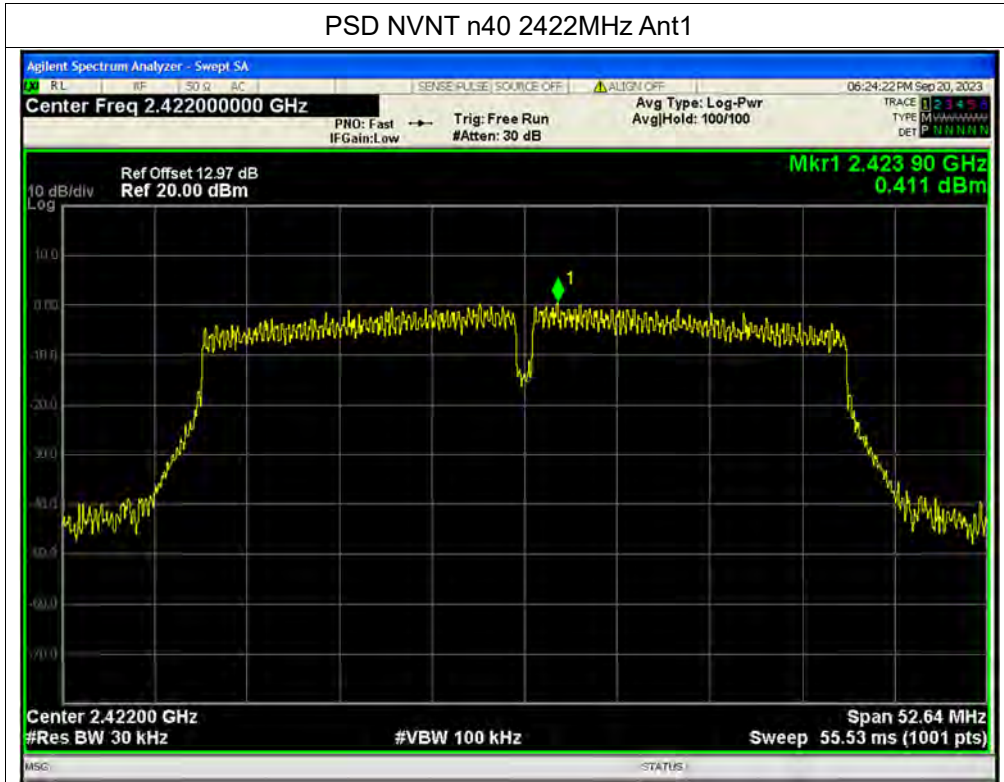


PSD NVNT n40 2422MHz Ant2

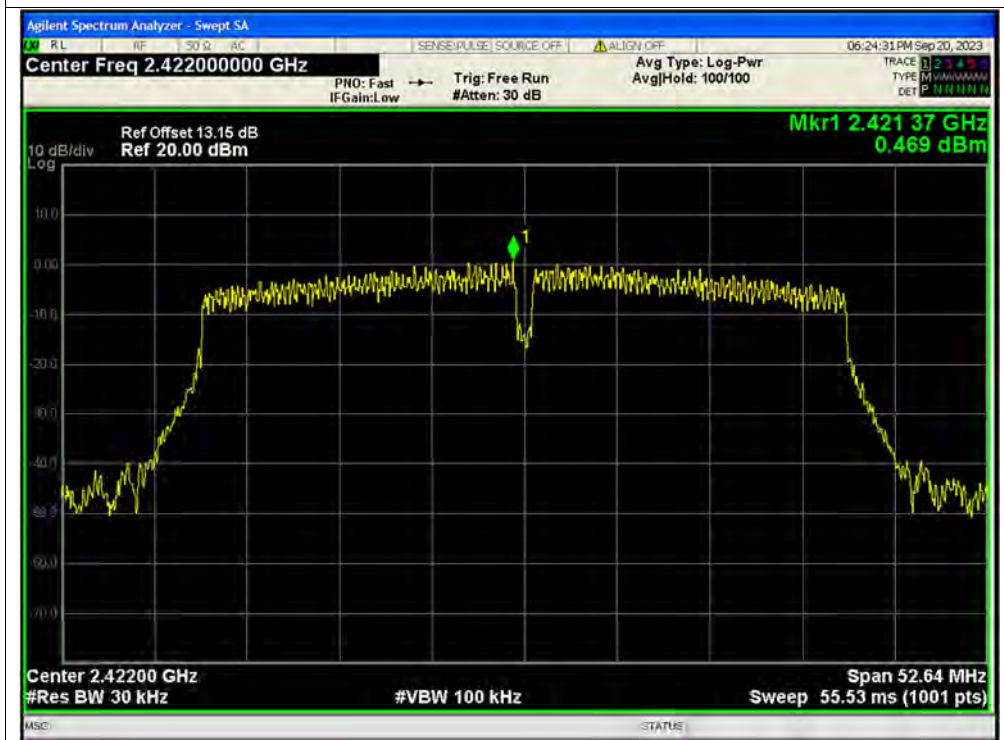




PSD NVNT n40 2422MHz Ant1

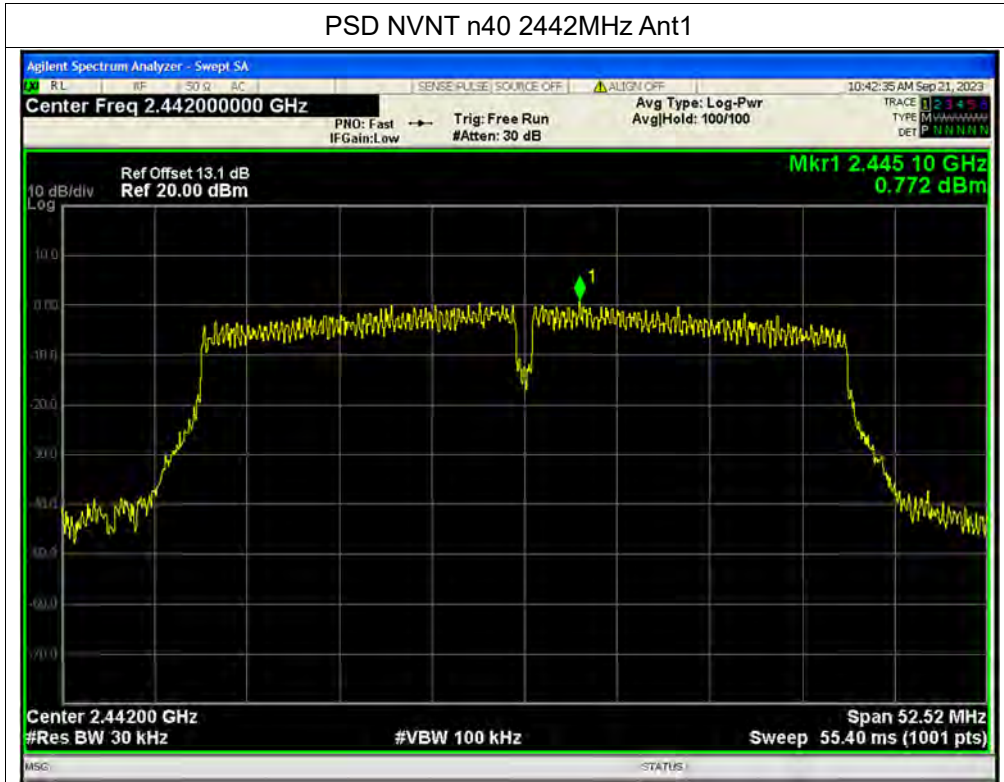


PSD NVNT n40 2422MHz Ant2





PSD NVNT n40 2442MHz Ant1



PSD NVNT n40 2442MHz Ant2





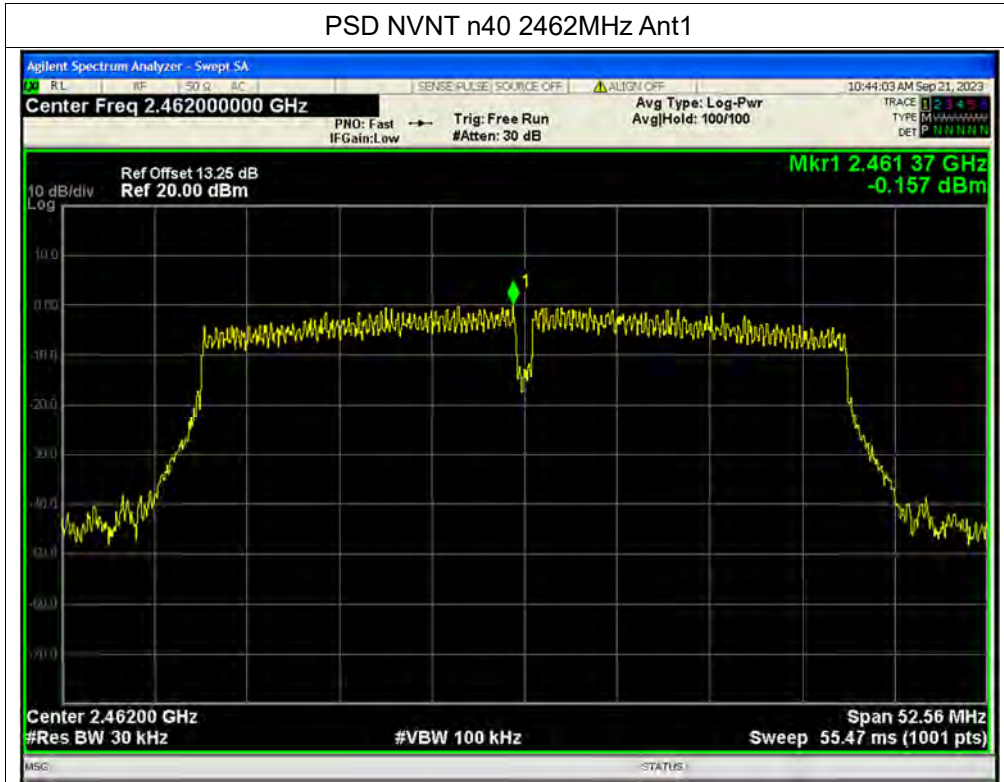
PSD NVNT n40 2442MHz Ant1



PSD NVNT n40 2442MHz Ant2



PSD NVNT n40 2462MHz Ant1

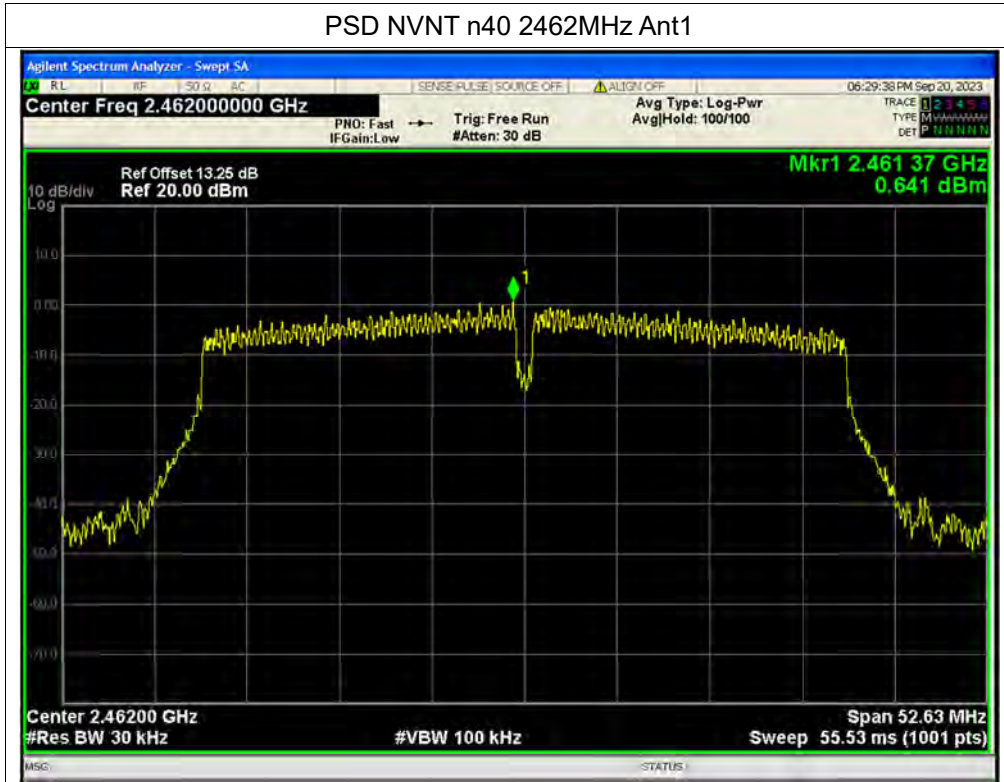


PSD NVNT n40 2462MHz Ant2





PSD NVNT n40 2462MHz Ant1

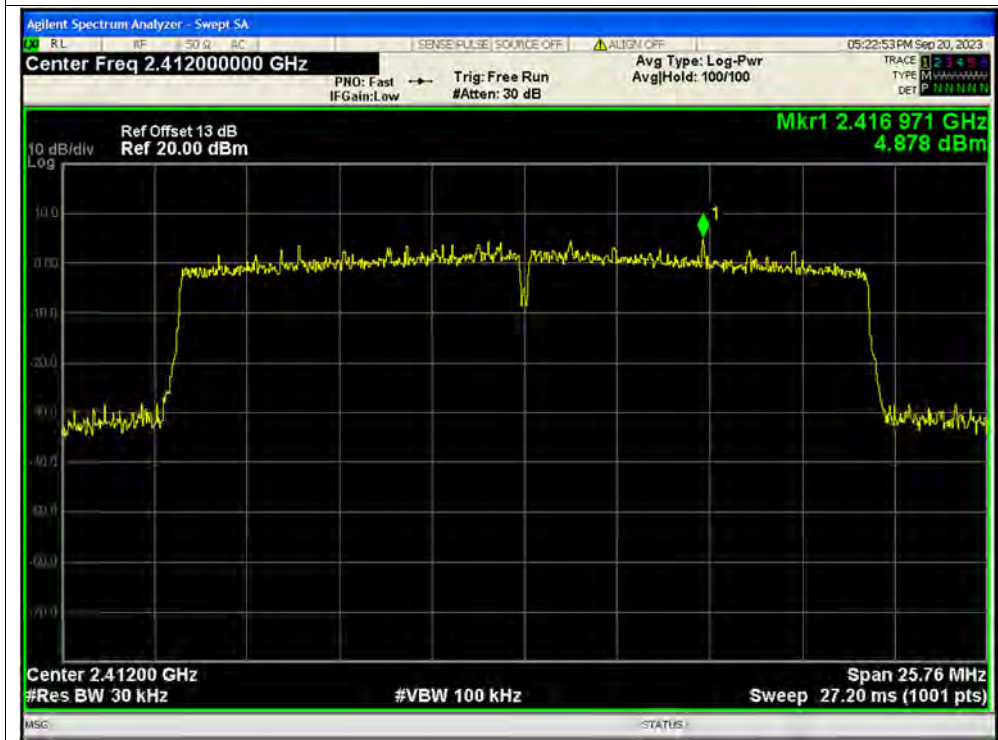


PSD NVNT n40 2462MHz Ant2

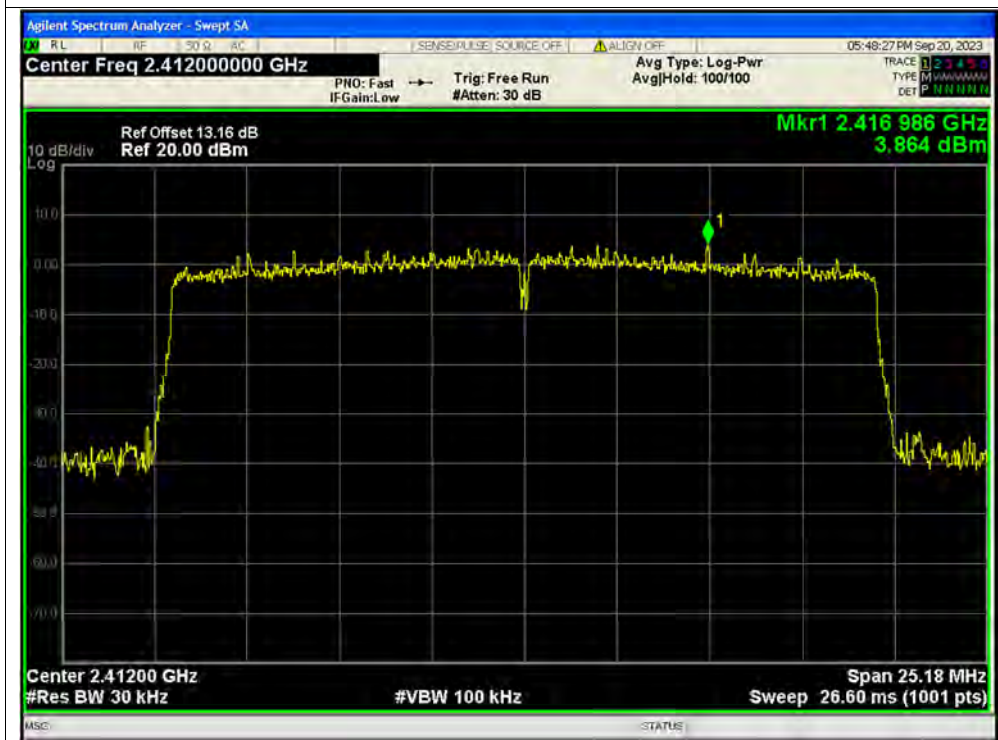




PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2412MHz Ant2





PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2412MHz Ant2

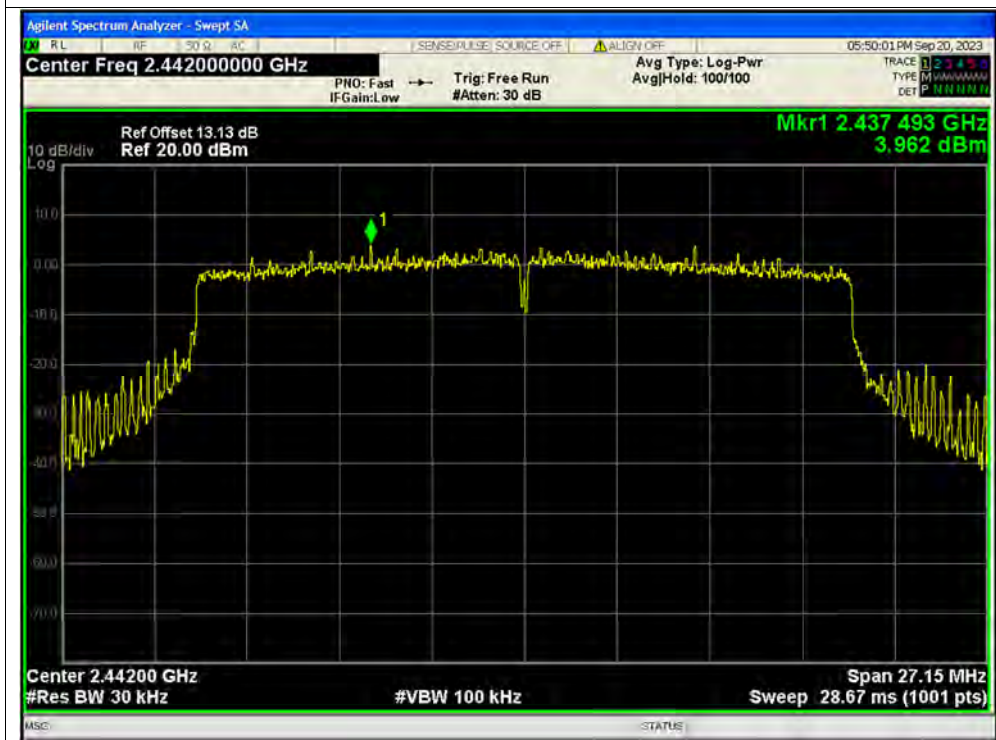




PSD NVNT ax20 2442MHz Ant1



PSD NVNT ax20 2442MHz Ant2





PSD NVNT ax20 2442MHz Ant1

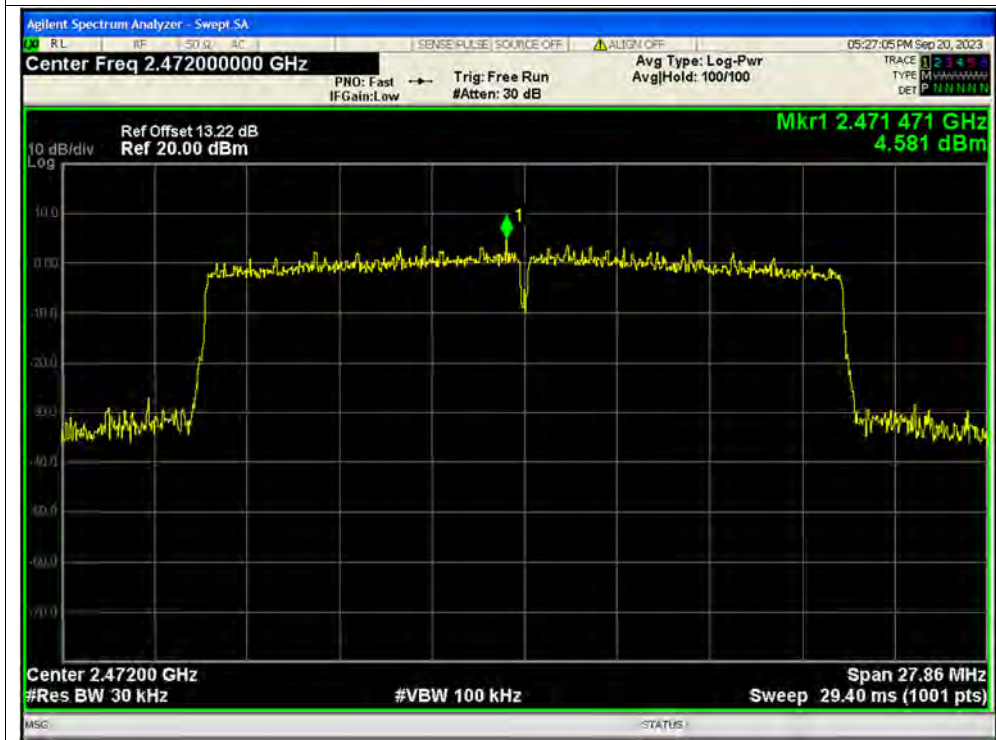


PSD NVNT ax20 2442MHz Ant2

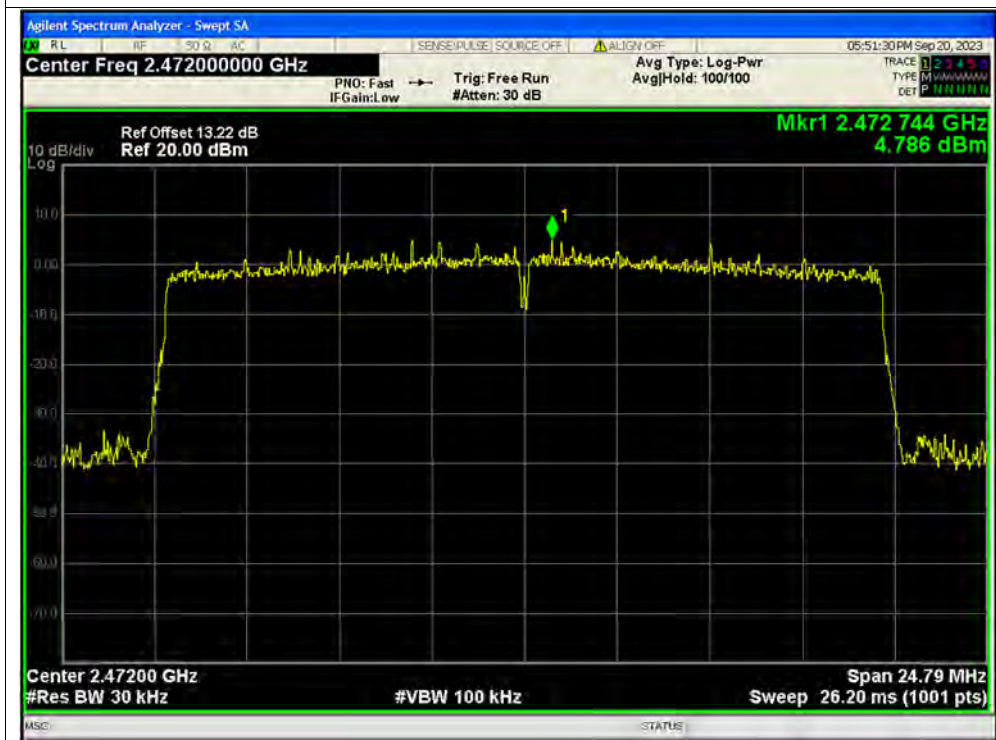




PSD NVNT ax20 2472MHz Ant1



PSD NVNT ax20 2472MHz Ant2





PSD NVNT ax20 2472MHz Ant1

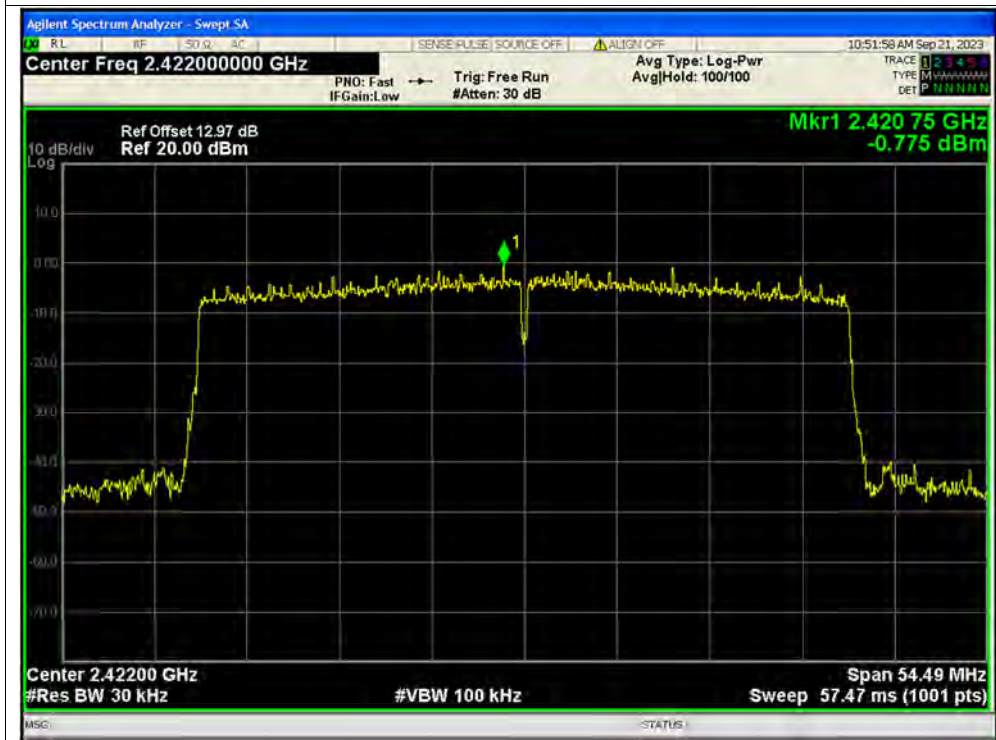


PSD NVNT ax20 2472MHz Ant2





PSD NVNT ax40 2422MHz Ant1

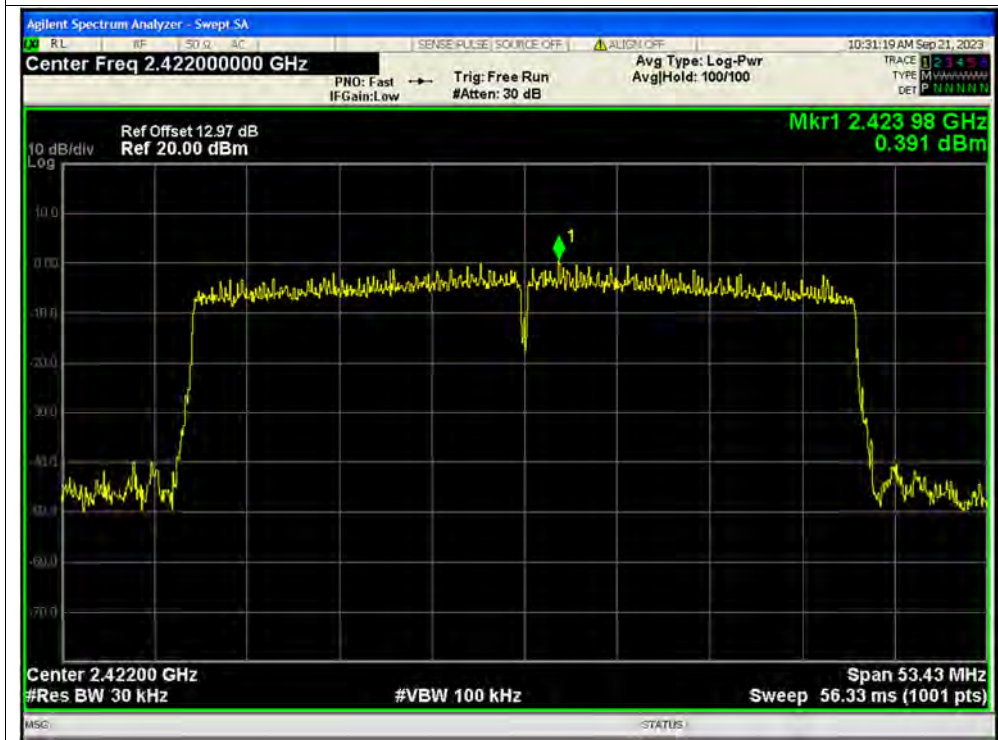


PSD NVNT ax40 2422MHz Ant2

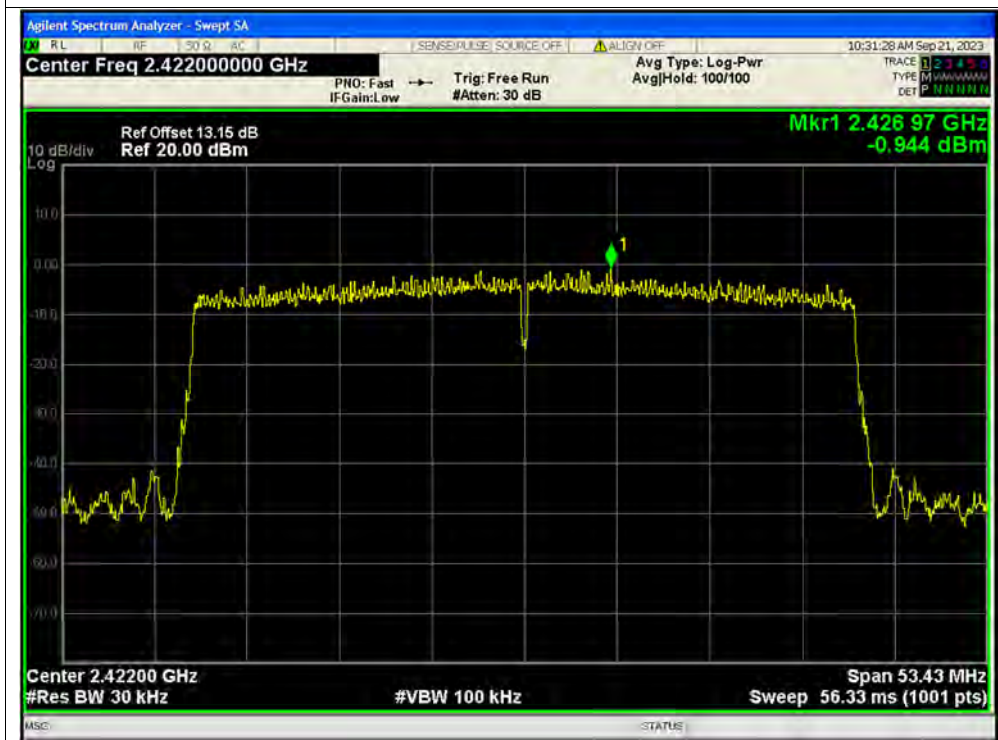




PSD NVNT ax40 2422MHz Ant1



PSD NVNT ax40 2422MHz Ant2





PSD NVNT ax40 2442MHz Ant1



PSD NVNT ax40 2442MHz Ant2

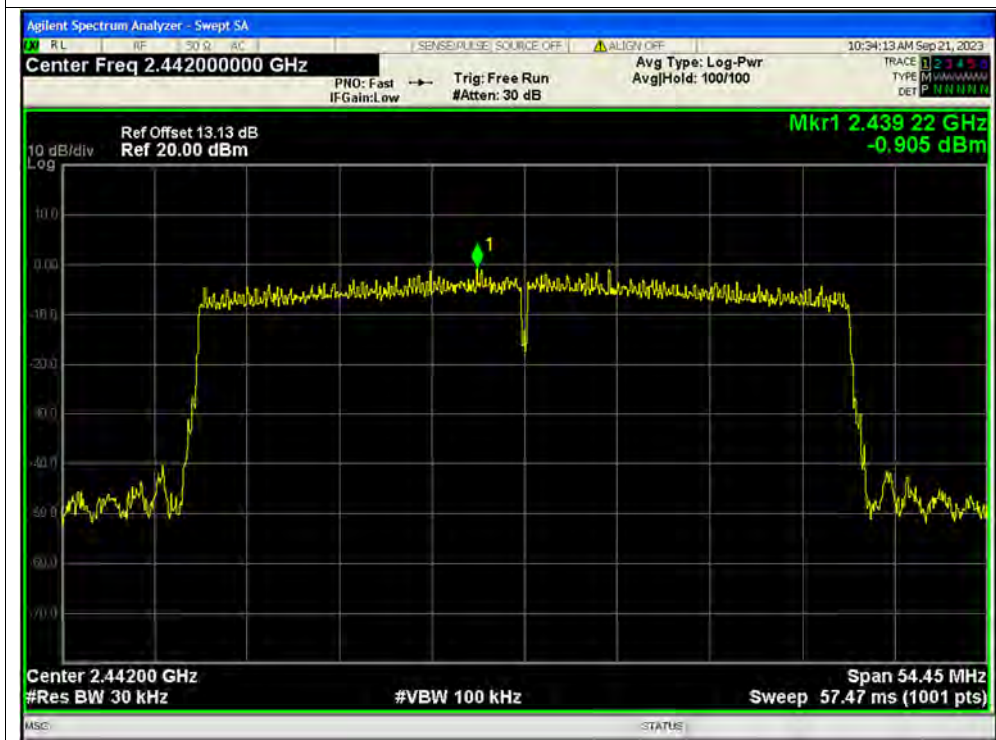




PSD NVNT ax40 2442MHz Ant1



PSD NVNT ax40 2442MHz Ant2





PSD NVNT ax40 2462MHz Ant1

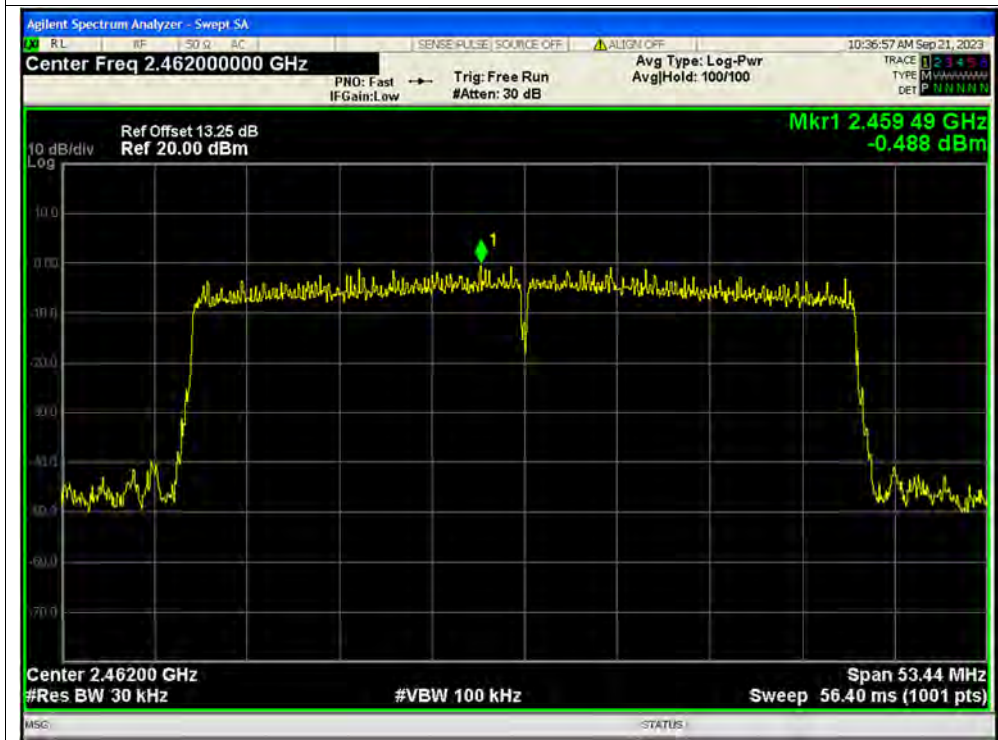


PSD NVNT ax40 2462MHz Ant2





PSD NVNT ax40 2462MHz Ant1



PSD NVNT ax40 2462MHz 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+Network cable+PC +WIFI TX

Test voltage: AC 120V/60Hz

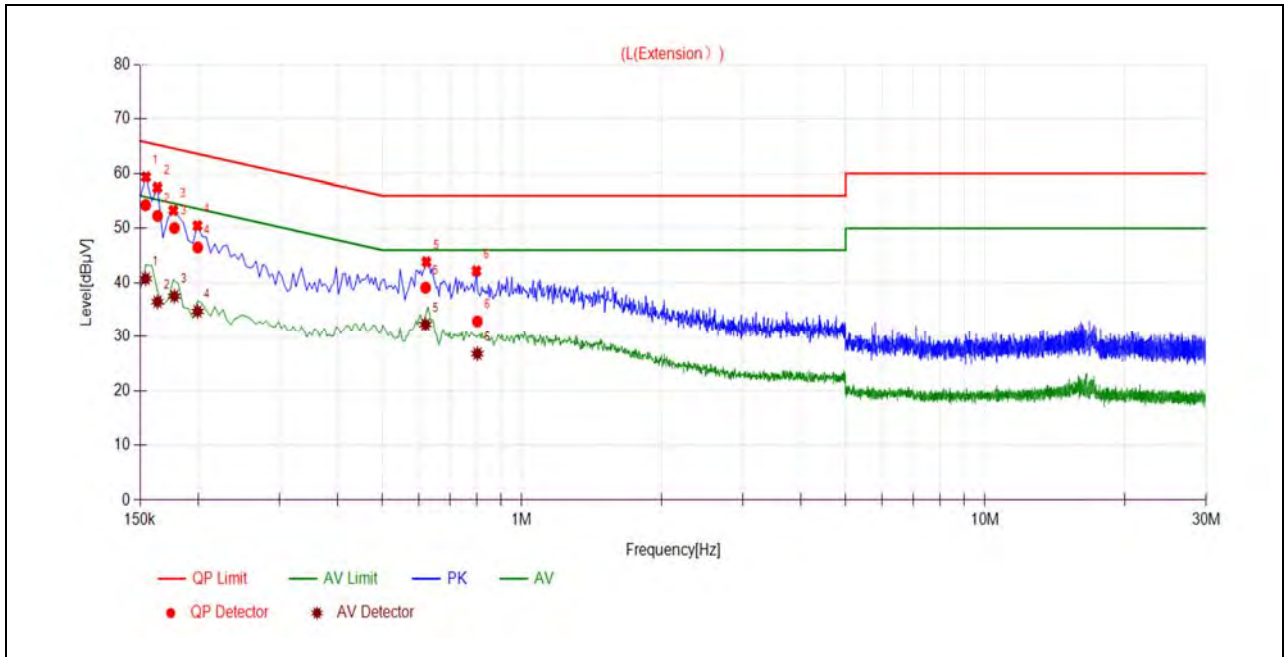
The measurement results are obtained as below:

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

U_R : Receiver Reading

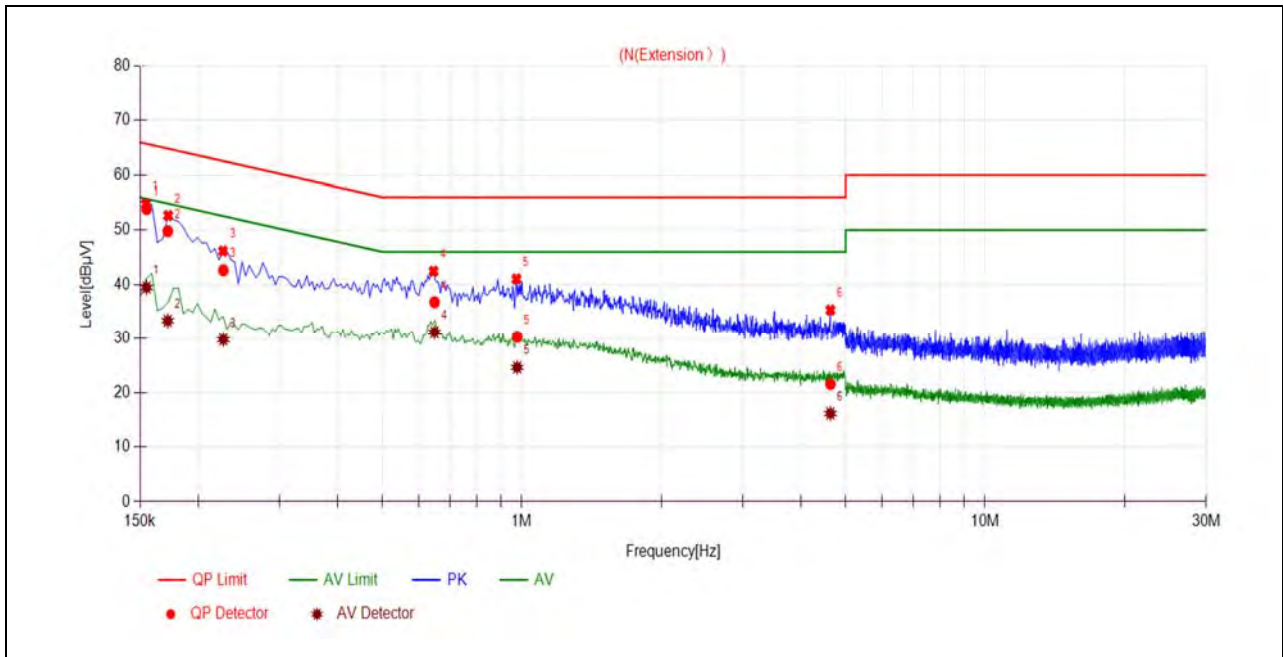
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1542	54.29	40.75	65.77	55.77	Line	PASS
2	0.1636	52.30	36.50	65.28	55.28		PASS
3	0.1779	50.07	37.52	64.58	54.58		PASS
4	0.1997	46.50	34.72	63.62	53.62		PASS
5	0.6197	39.09	32.27	56.00	46.00		PASS
6	0.8018	32.86	26.79	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	0.1549	53.86	39.48	65.73	39.48	Neutral	PASS
2	0.1721	49.81	33.34	64.86	33.34		PASS
3	0.2269	42.63	29.80	62.56	29.80		PASS
4	0.6480	36.76	31.19	56.00	31.19		PASS
5	0.9775	30.32	24.63	56.00	24.63		PASS
6	4.6353	21.57	16.13	56.00	16.13		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

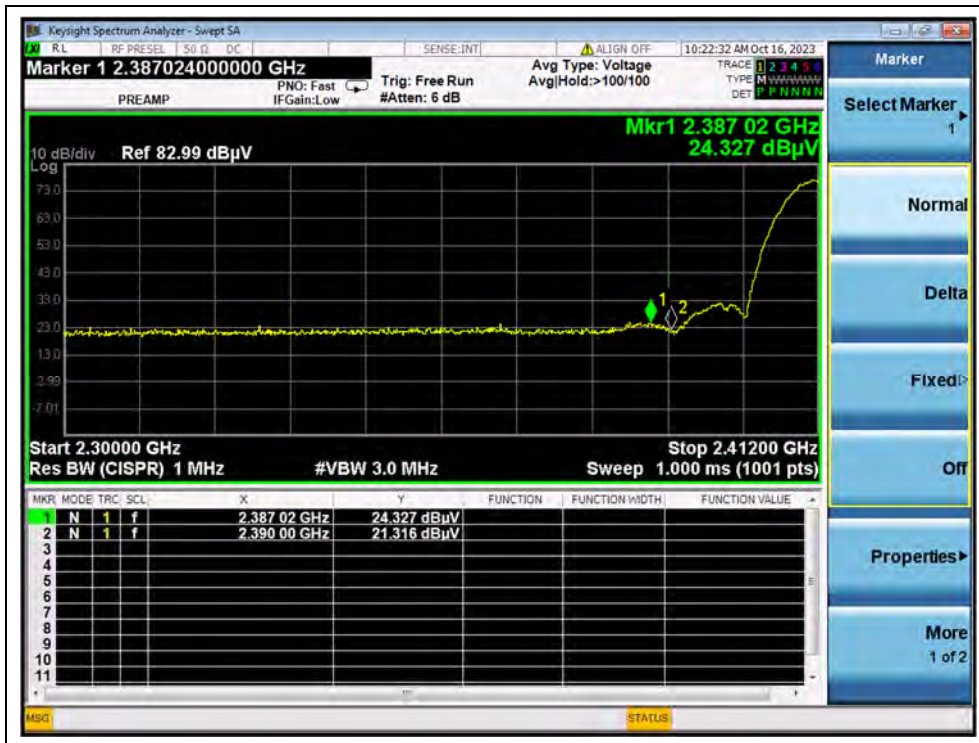
G_{preamp} : Preamplifier Gain

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 (vertical) was recorded in this test report.

802.11b Mode

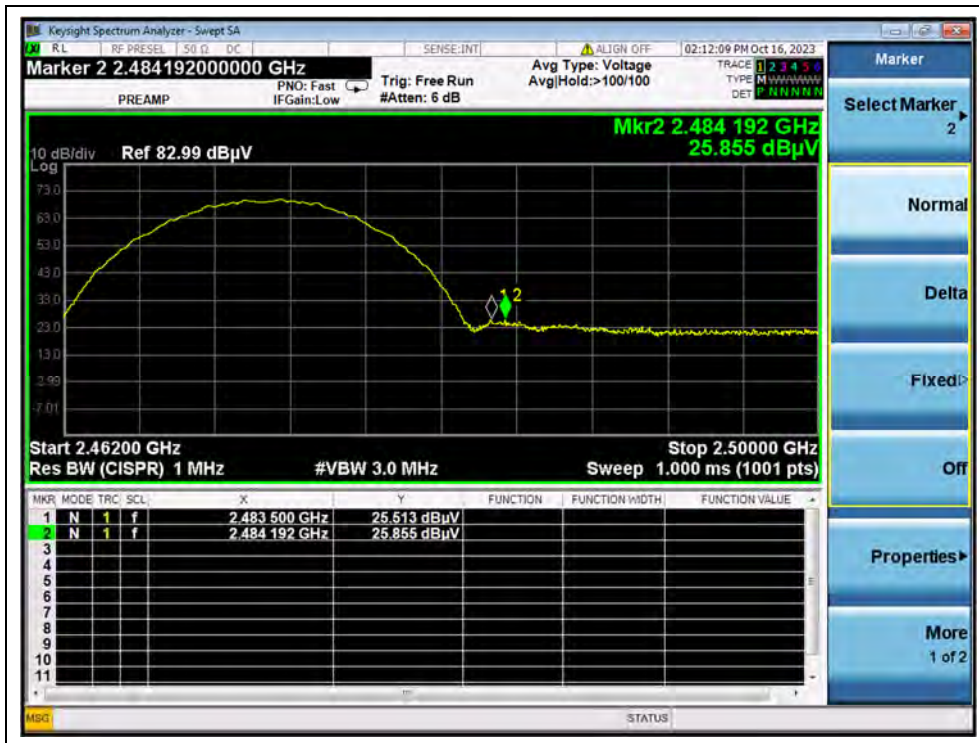
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
1	2387.02	PK	24.33	6.74	27.20	58.27	74	PASS
1	2385.34	AV	16.13	6.74	27.20	50.07	54	PASS
13	2484.19	PK	25.86	6.74	27.20	59.80	74	PASS
13	2483.77	AV	16.43	6.74	27.20	50.37	54	PASS



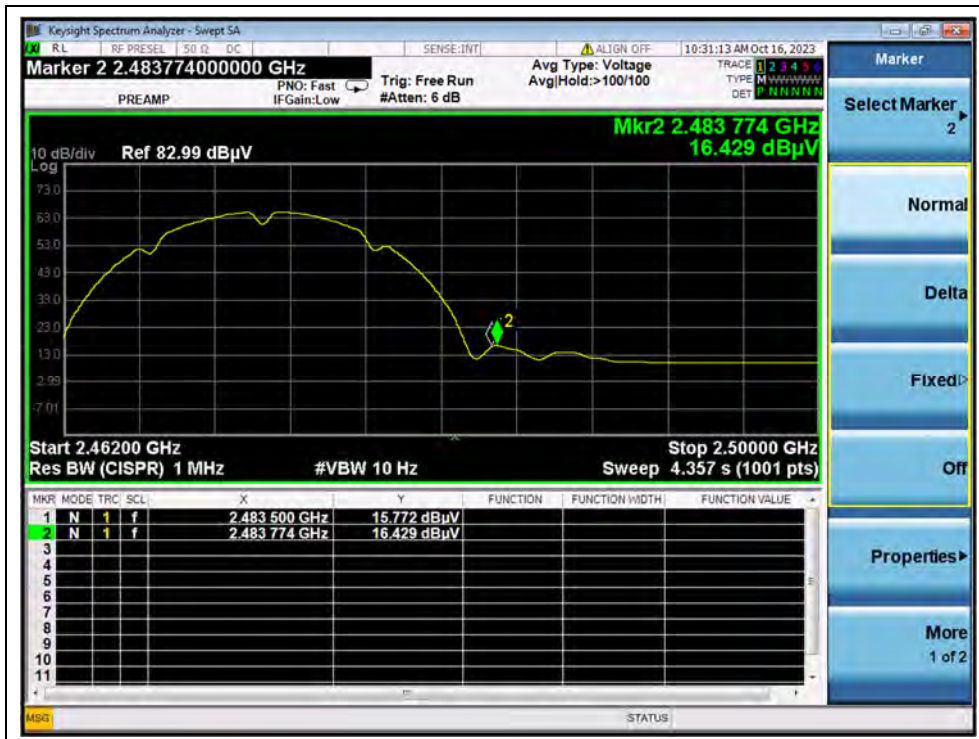
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 13, 802.11b)



(AVERAGE, Channel 13, 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	2389.04	PK	32.23	6.74	27.20	66.17	74	PASS
1	2390.00	AV	16.74	6.74	27.20	50.68	54	PASS
13	2484.12	PK	26.67	6.74	27.20	60.61	74	PASS
13	2484.15	AV	16.51	6.74	27.20	50.45	54	PASS



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 13, 802.11g)

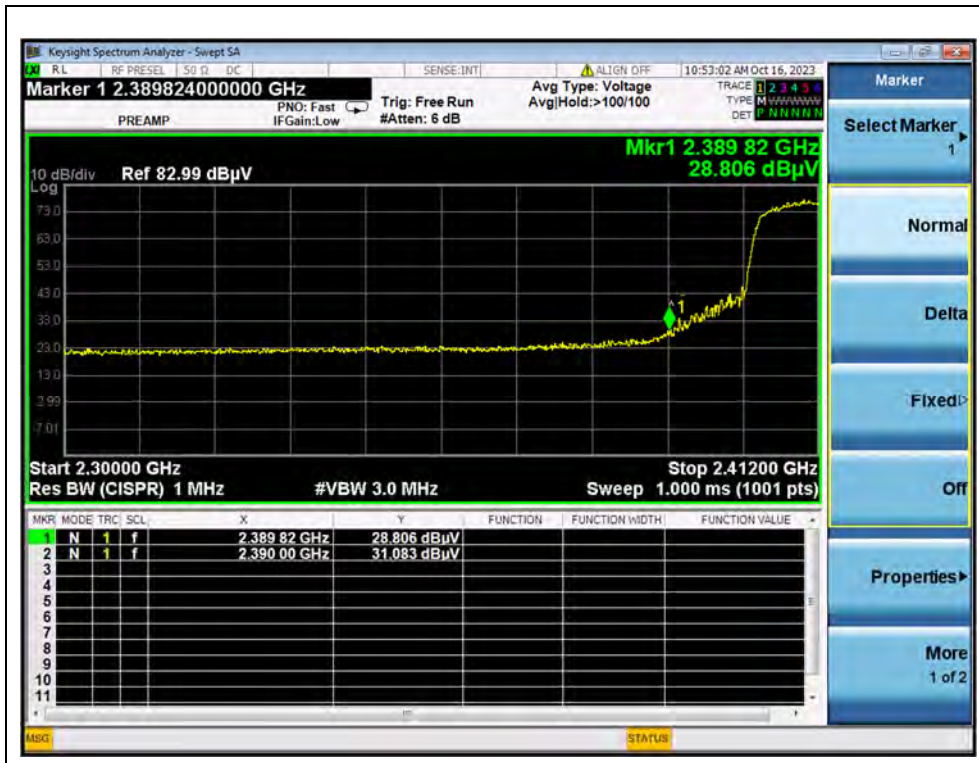


(AVERAGE, Channel 13, 802.11g)

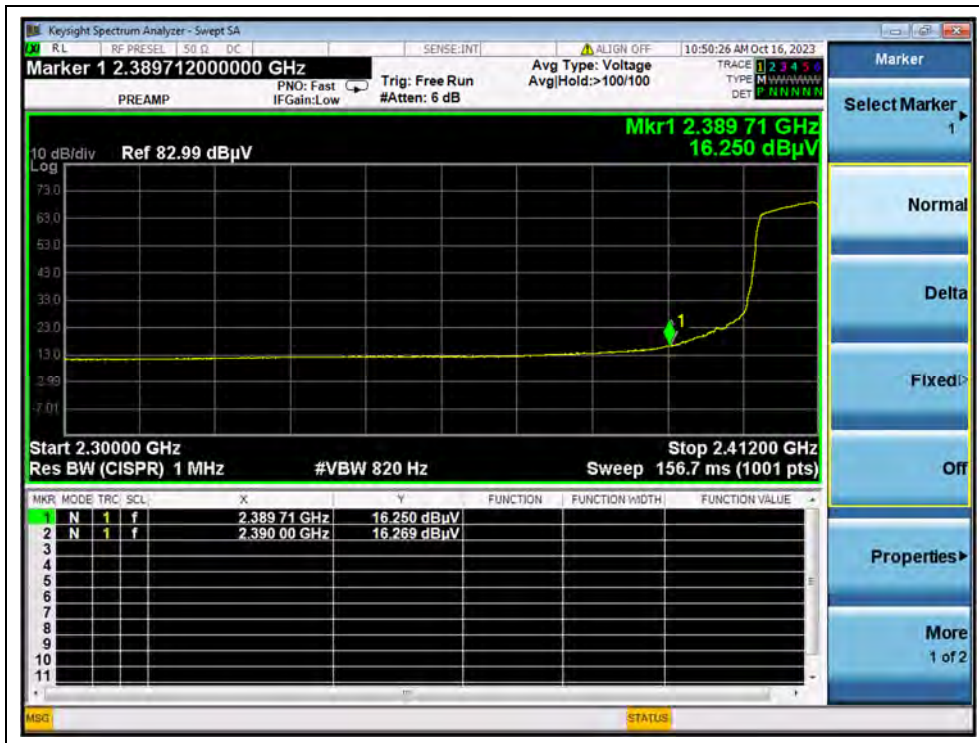


802.11n (HT20) Mode

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	2390.00	PK	31.08	6.74	27.20	65.02	74	PASS
1	2390.00	AV	16.27	6.74	27.20	50.21	54	PASS
13	2483.74	PK	26.17	6.74	27.20	60.11	74	PASS
13	2483.50	AV	16.98	6.74	27.20	50.92	54	PASS



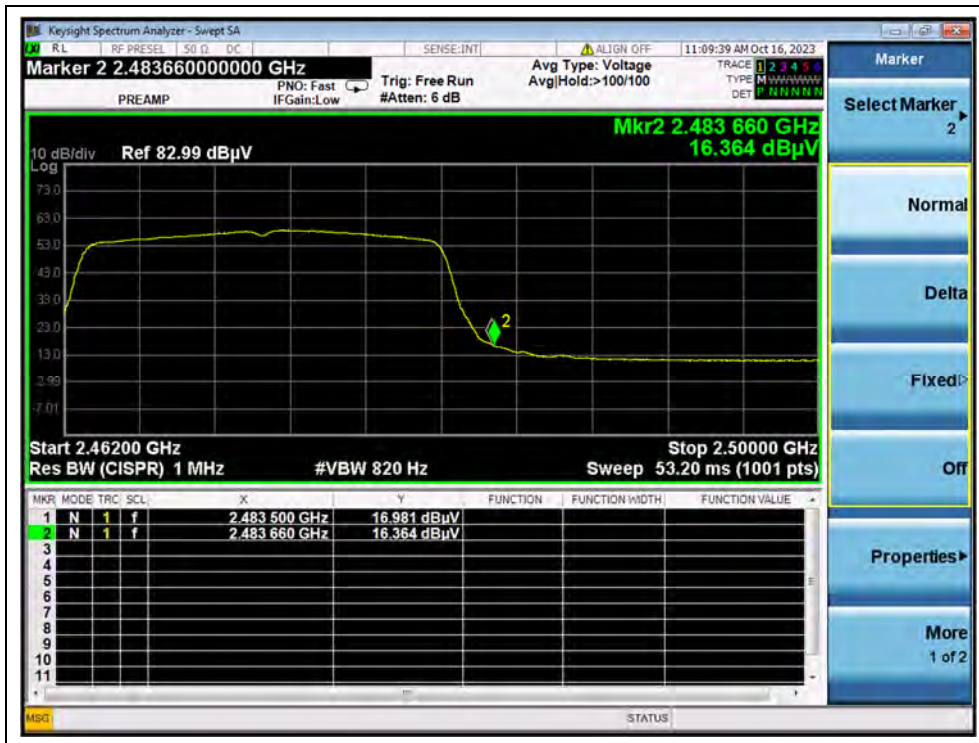
(PEAK, Channel 1, 802.11n (HT20))



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



(PEAK, Channel 13, 802.11n (HT20))

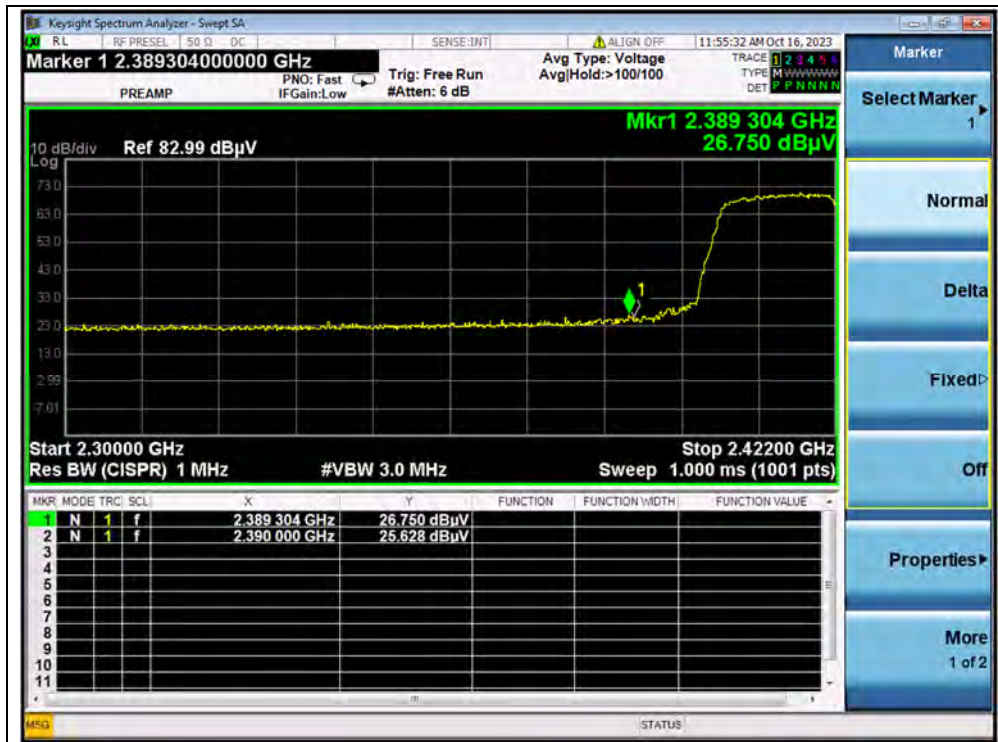


(AVERAGE, Channel 13, 802.11n (HT20))

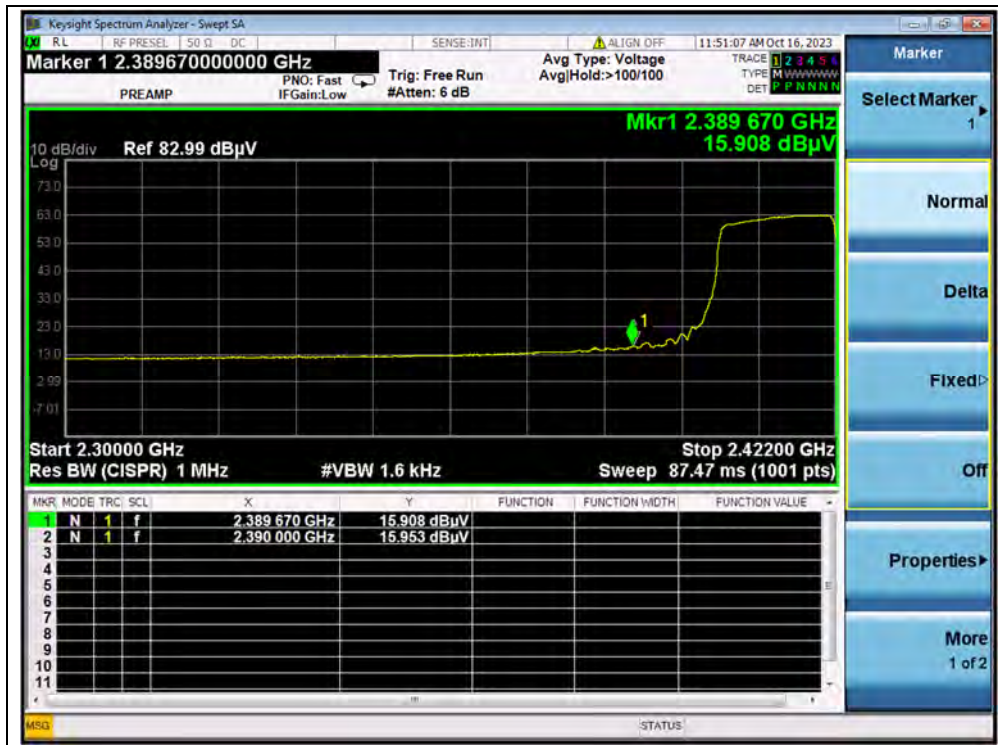


802.11n (HT40) Mode

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	2389.30	PK	26.75	6.74	27.20	60.69	74	PASS
3	2390.00	AV	15.95	6.74	27.20	49.89	54	PASS
11	2483.50	PK	29.81	6.74	27.20	63.75	74	PASS
11	2483.62	AV	16.70	6.74	27.20	50.64	54	PASS



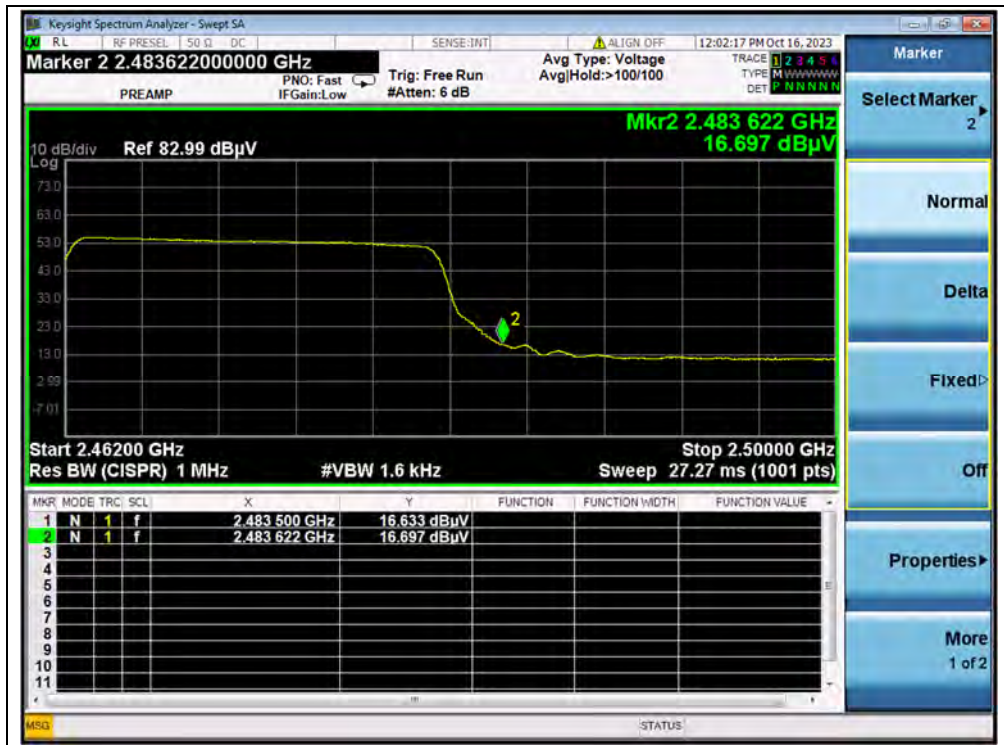
(PEAK, Channel 3, 802.11n (HT40))



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



(PEAK, Channel 11, 802.11n (HT40))

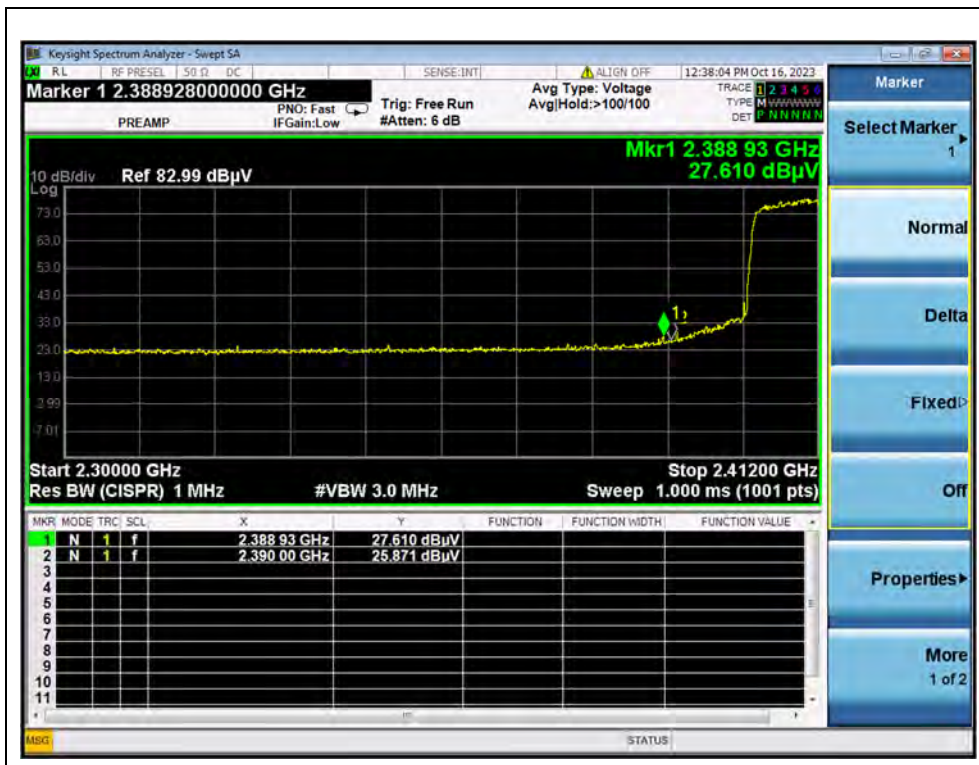


(AVERAGE, Channel 11, 802.11n (HT40))



802.11ax (HEW20) Mode

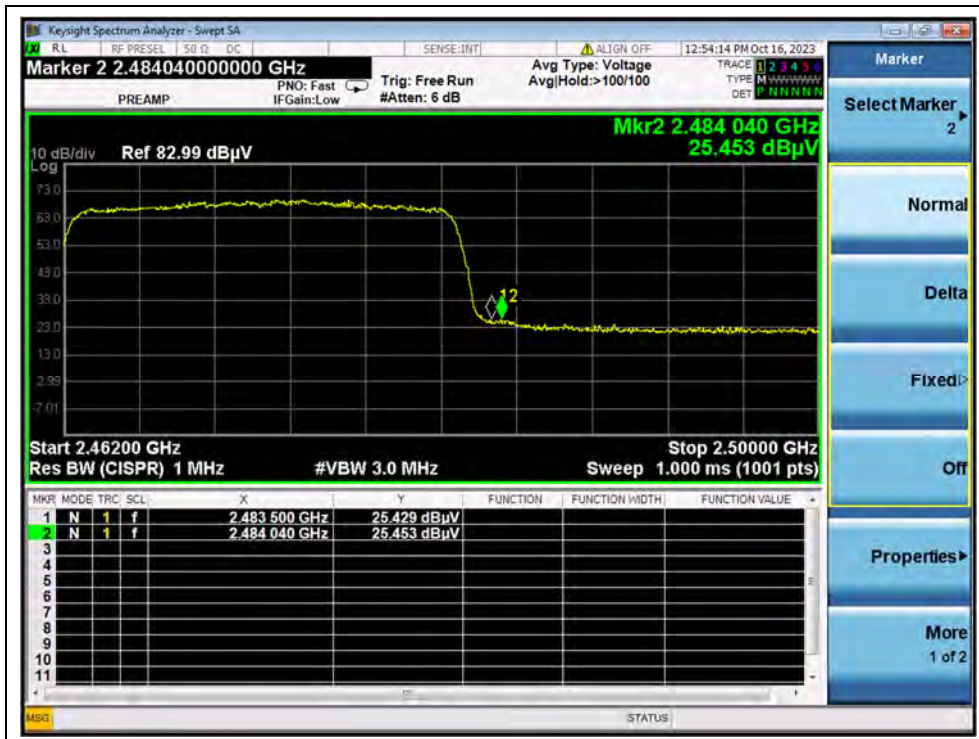
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2388.93	PK	27.61	6.74	27.20	61.55	74	PASS
1	2390.00	AV	17.06	6.74	27.20	51.00	54	PASS
13	2484.04	PK	25.45	6.74	27.20	59.39	74	PASS
13	2483.50	AV	16.31	6.74	27.20	50.25	54	PASS



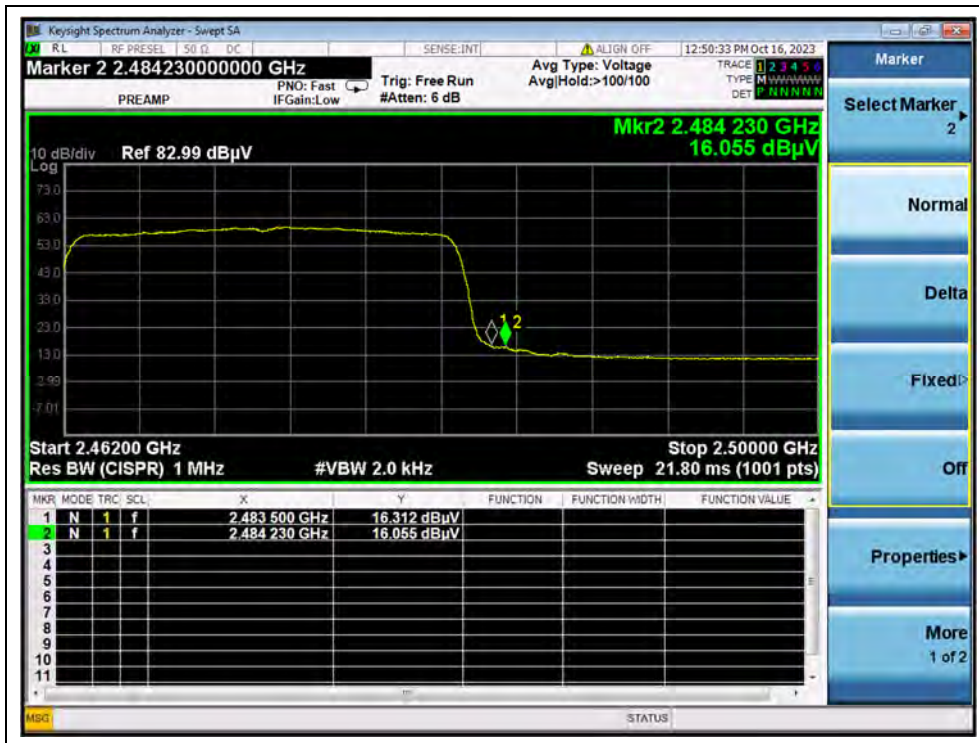
(PEAK, Channel 1, 802.11ax (HEW20))



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



(PEAK, Channel 13, 802.11ax (HEW20))

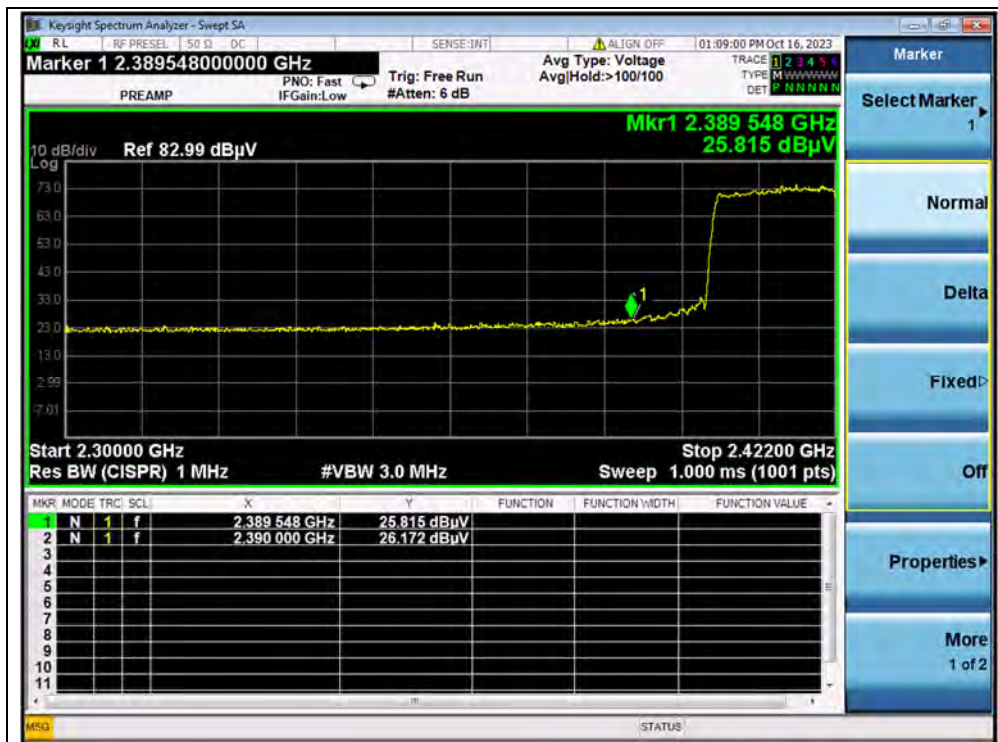


(AVERAGE, Channel 13, 802.11ax (HEW20))

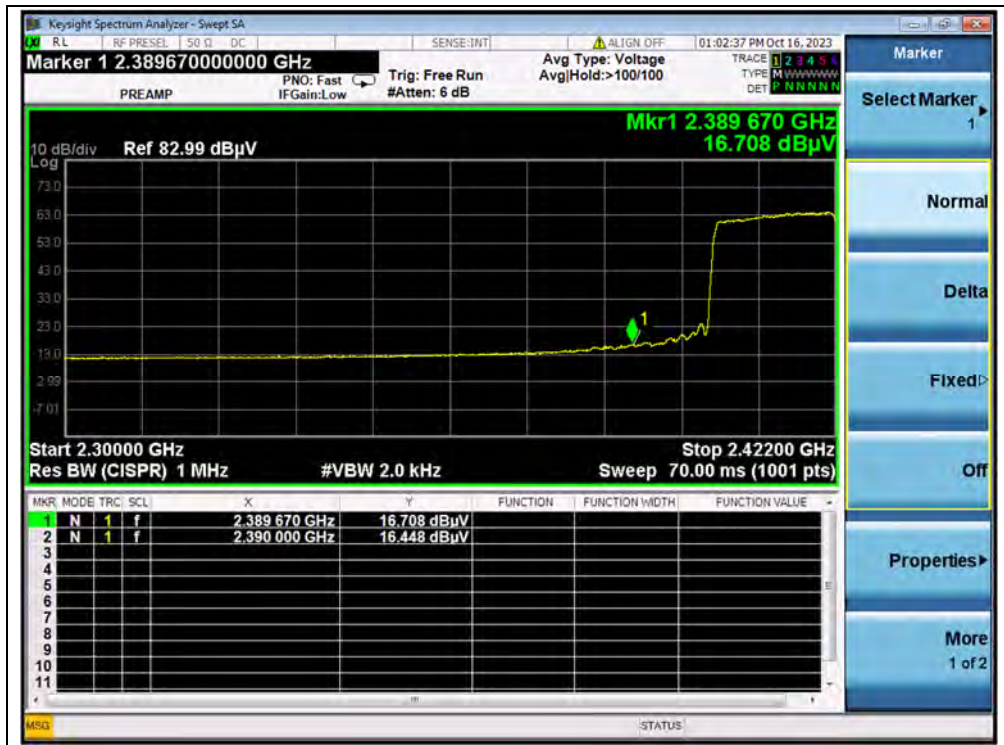


802.11ax (HEW40) Mode

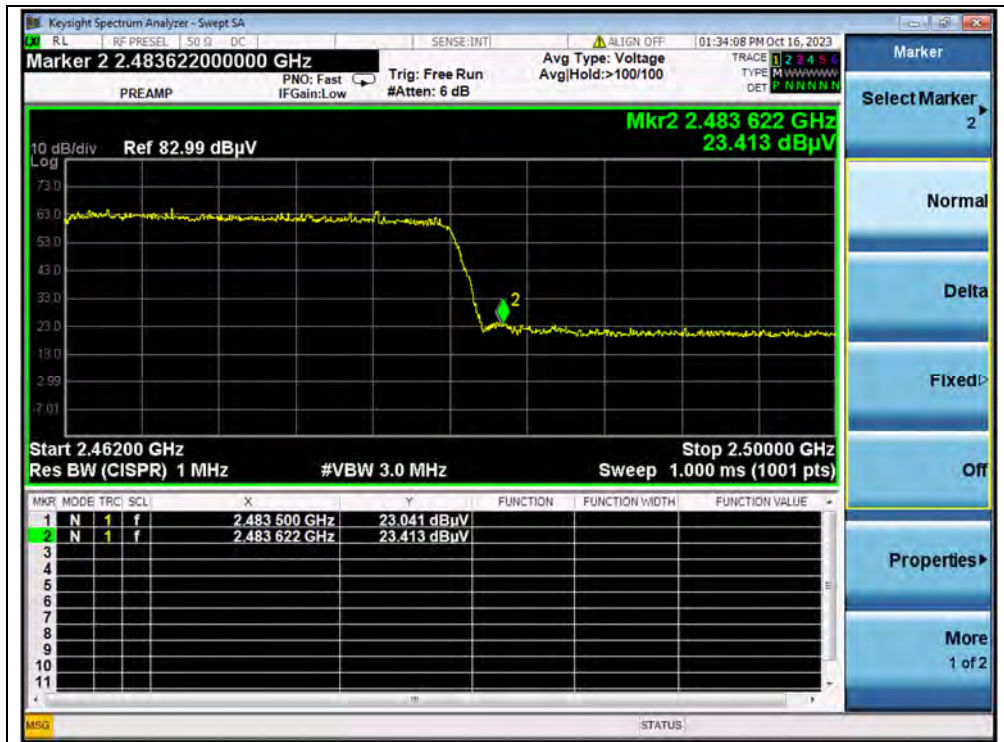
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2390.00	PK	26.17	6.74	27.20	60.11	74	PASS
3	2389.67	AV	16.71	6.74	27.20	50.65	54	PASS
11	2483.62	PK	23.41	6.74	27.20	57.35	74	PASS
11	2483.50	AV	16.64	6.74	27.20	50.58	54	PASS



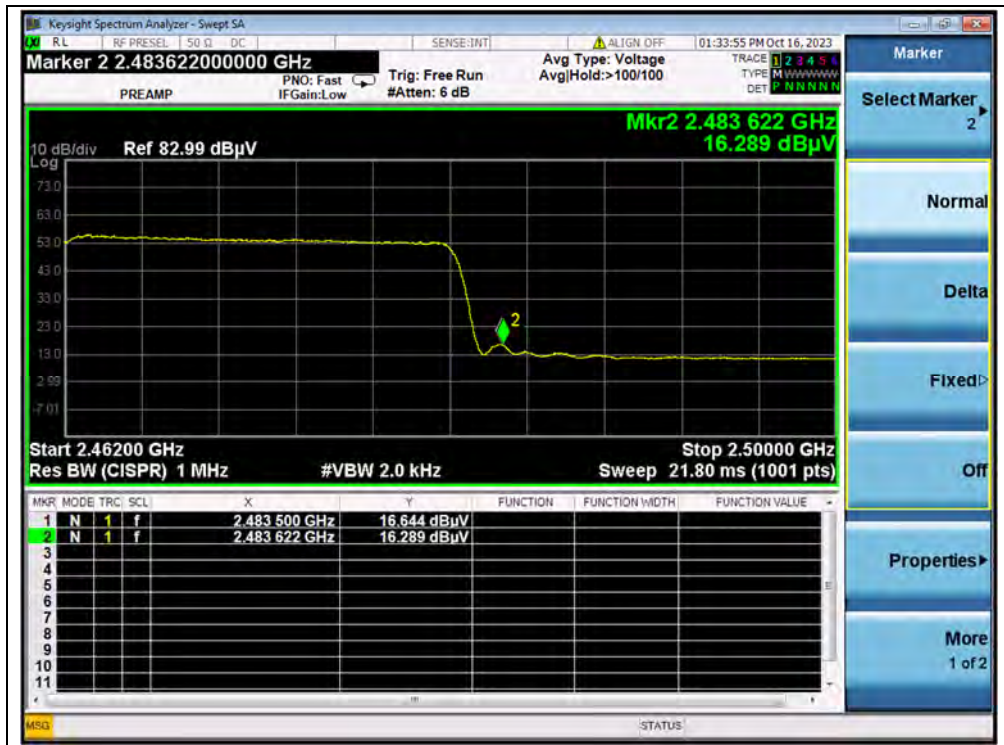
(PEAK, Channel 3, 802.11ax (HEW40))



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



(PEAK, Channel 11, 802.11ax (HEW40))



(AVERAGE, Channel 11, 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.

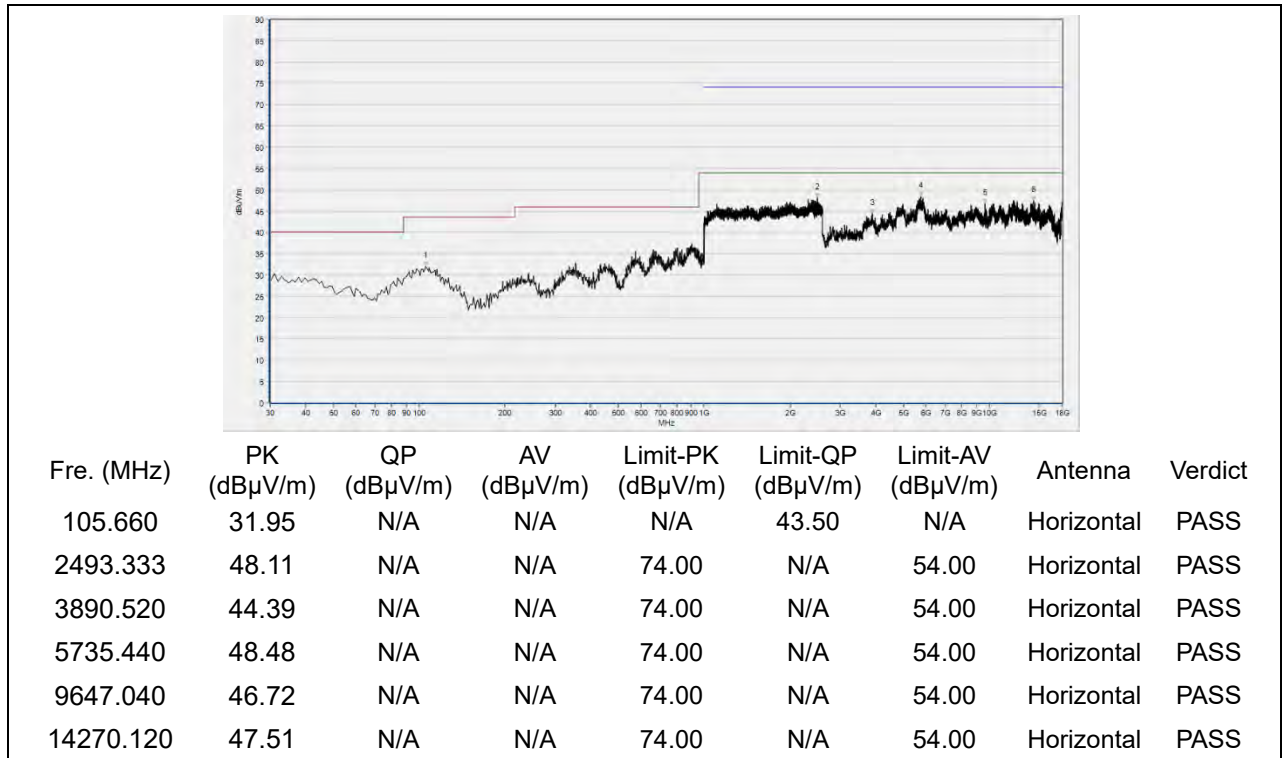
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

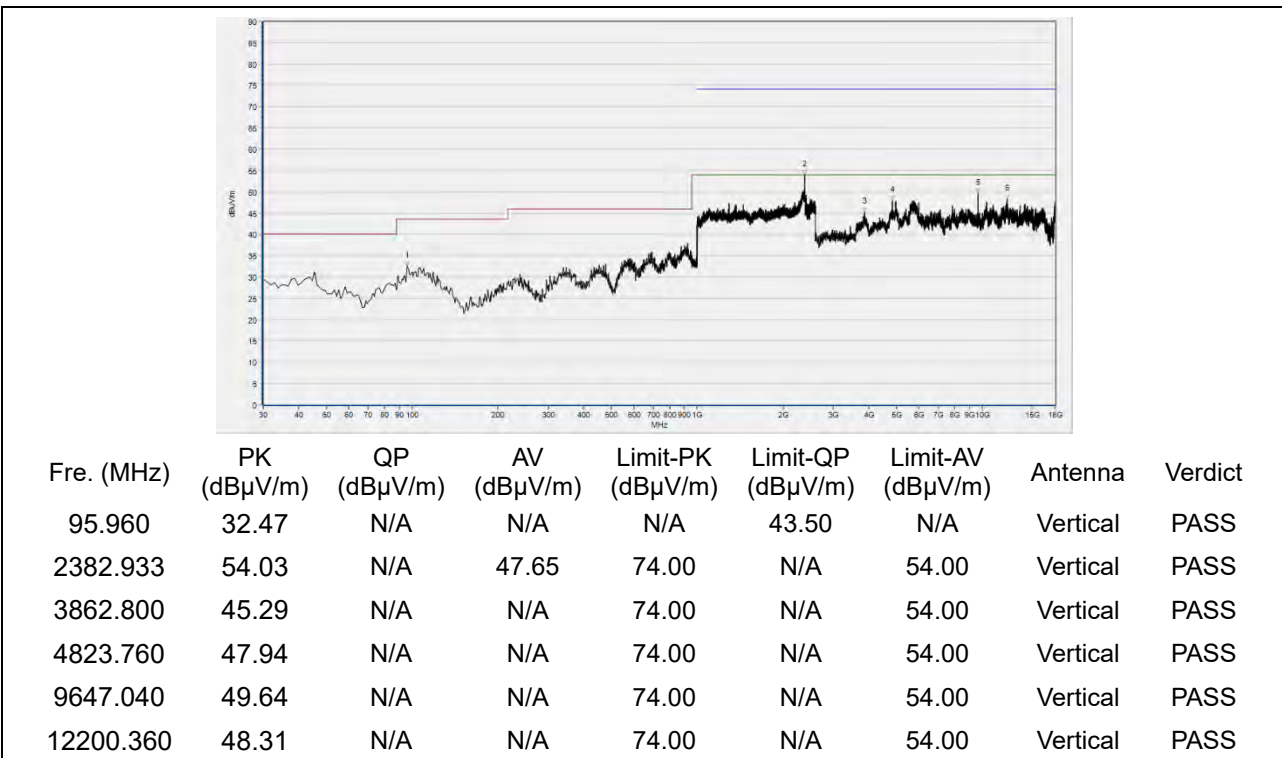


802.11b Mode

Plot for Channel 1

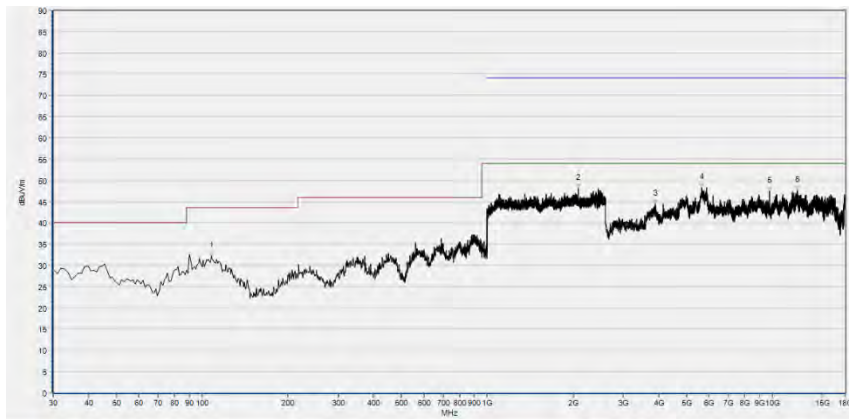


(Antenna Horizontal, 30MHz to 18GHz)



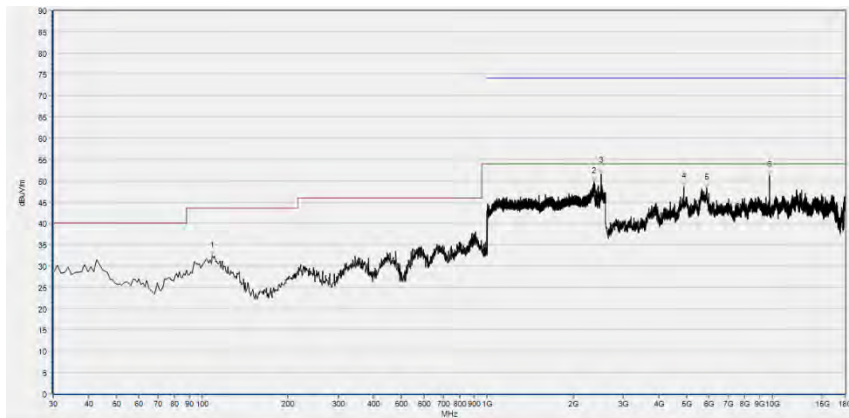
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	32.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2082.133	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3878.200	44.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5655.360	48.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9767.160	47.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12200.360	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2366.933	49.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2509.333	51.43	N/A	37.22	74.00	N/A	54.00	Vertical	PASS
4882.280	48.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5895.600	48.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9767.160	51.34	N/A	49.74	74.00	N/A	54.00	Vertical	PASS

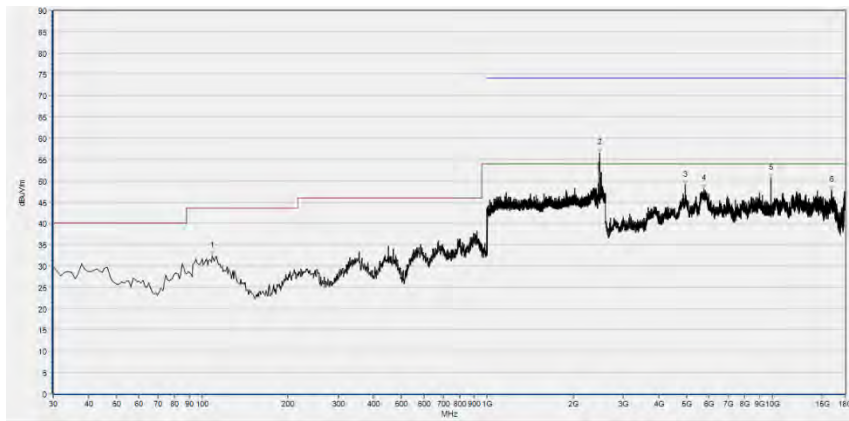
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



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	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2475.200	49.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4943.880	47.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5883.280	49.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9887.280	48.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13977.520	47.38	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	32.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2474.667	56.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4943.880	48.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	48.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9887.280	50.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16127.360	47.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



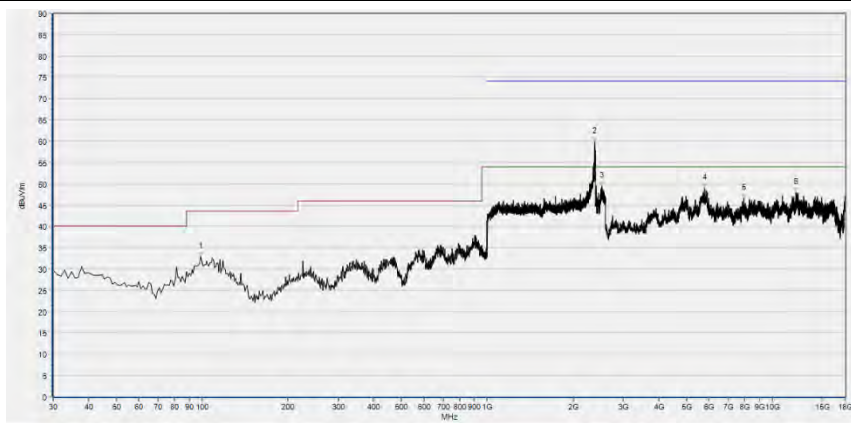
802.11g Mode

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
107.600	32.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2383.467	48.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4959.280	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5790.880	48.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8525.920	46.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12181.880	47.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

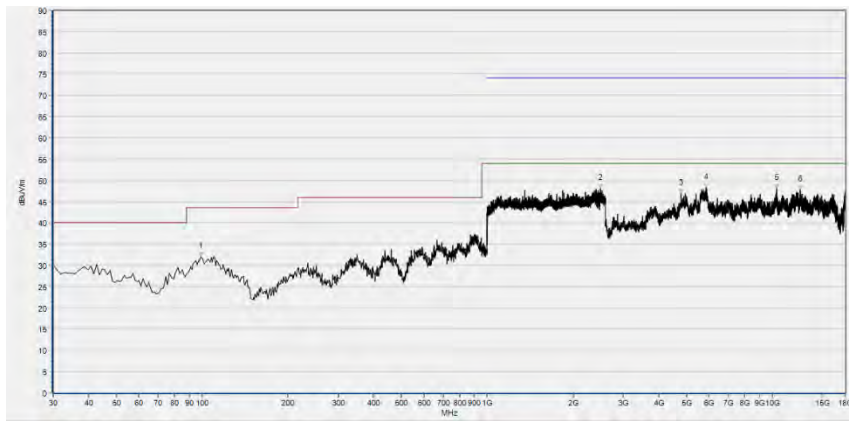
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
98.870	32.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2380.800	59.75	N/A	43.57	74.00	N/A	54.00	Vertical	PASS
2520.000	49.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5778.560	48.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7956.120	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12126.440	47.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
98.870	31.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2488.533	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4777.560	46.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5855.560	48.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10349.280	48.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12511.440	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	33.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2382.400	51.74	N/A	41.29	74.00	N/A	54.00	Vertical	PASS
2521.067	52.37	N/A	39.63	74.00	N/A	54.00	Vertical	PASS
5855.560	48.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8501.280	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13084.320	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

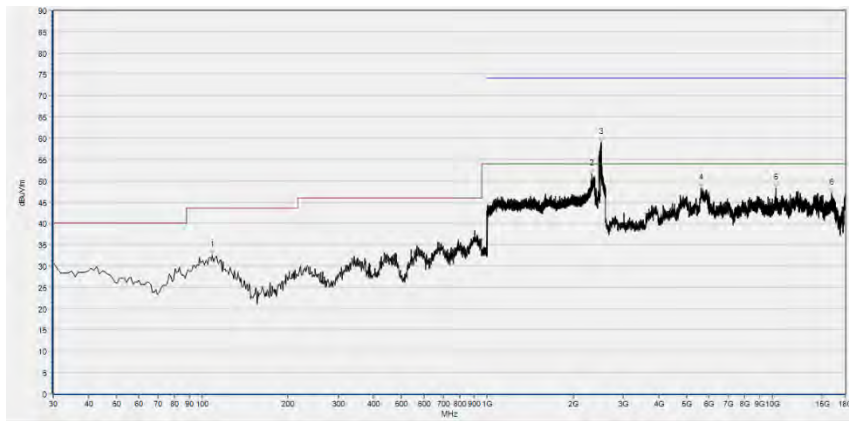
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



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
114.390	32.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2500.267	49.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3902.840	44.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5716.960	47.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8470.480	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12138.760	47.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



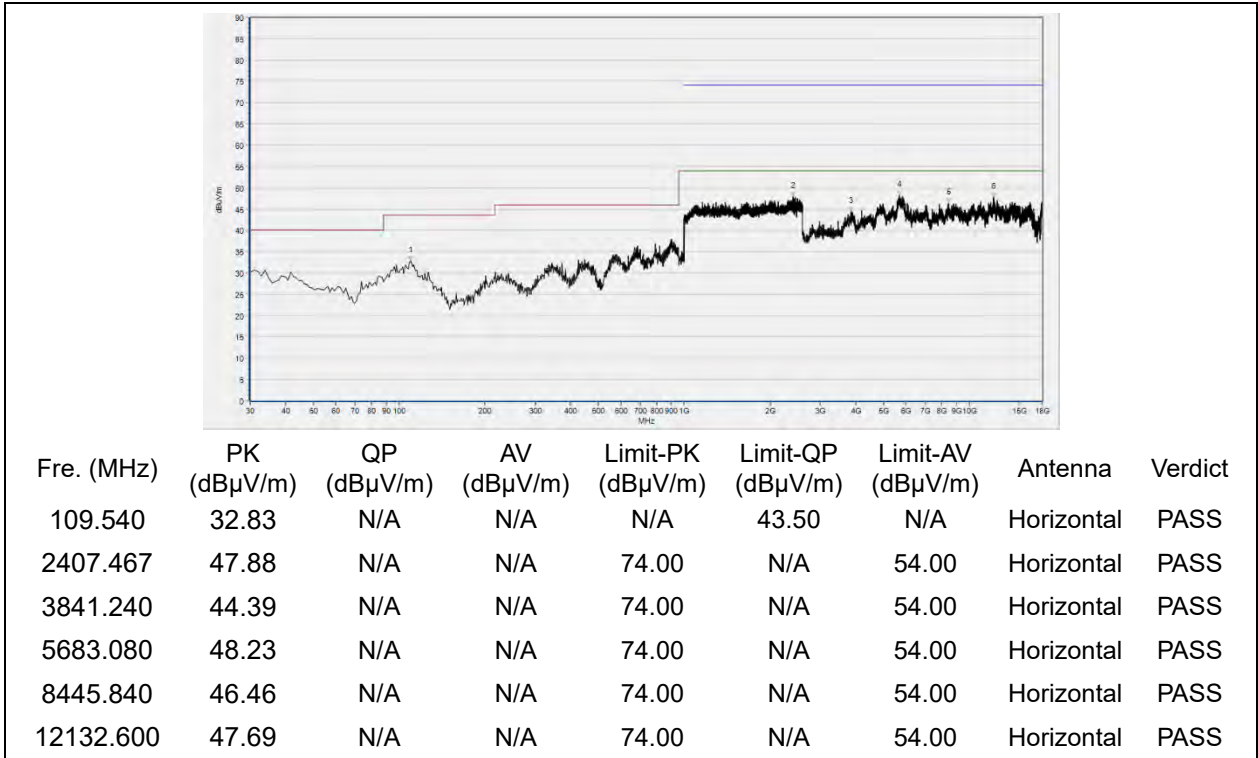
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2331.733	51.66	N/A	38.15	74.00	N/A	54.00	Vertical	PASS
2508.267	58.94	N/A	41.98	74.00	N/A	54.00	Vertical	PASS
5630.720	48.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10306.160	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16093.480	47.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

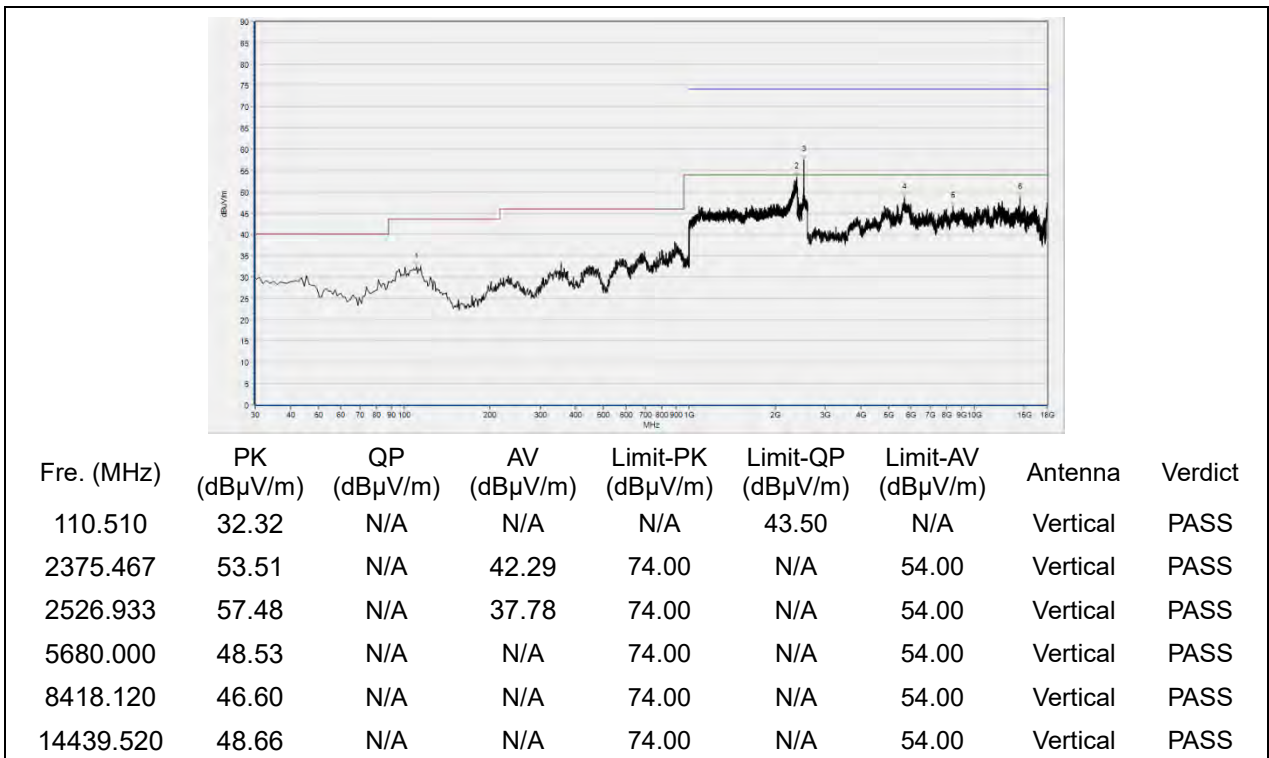


802.11n (HT20) Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



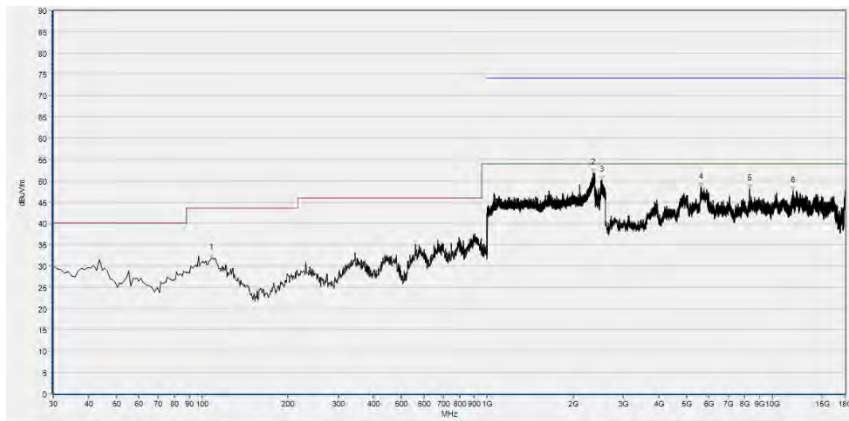
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



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	32.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2457.067	48.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4127.680	44.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5606.080	48.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8984.840	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10666.520	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
107.600	31.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2357.333	51.71	N/A	38.62	74.00	N/A	54.00	Vertical	PASS
2518.400	50.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5618.400	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8304.160	48.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11787.640	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 13



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	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2416.533	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3767.320	43.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	48.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9369.840	46.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12148.000	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



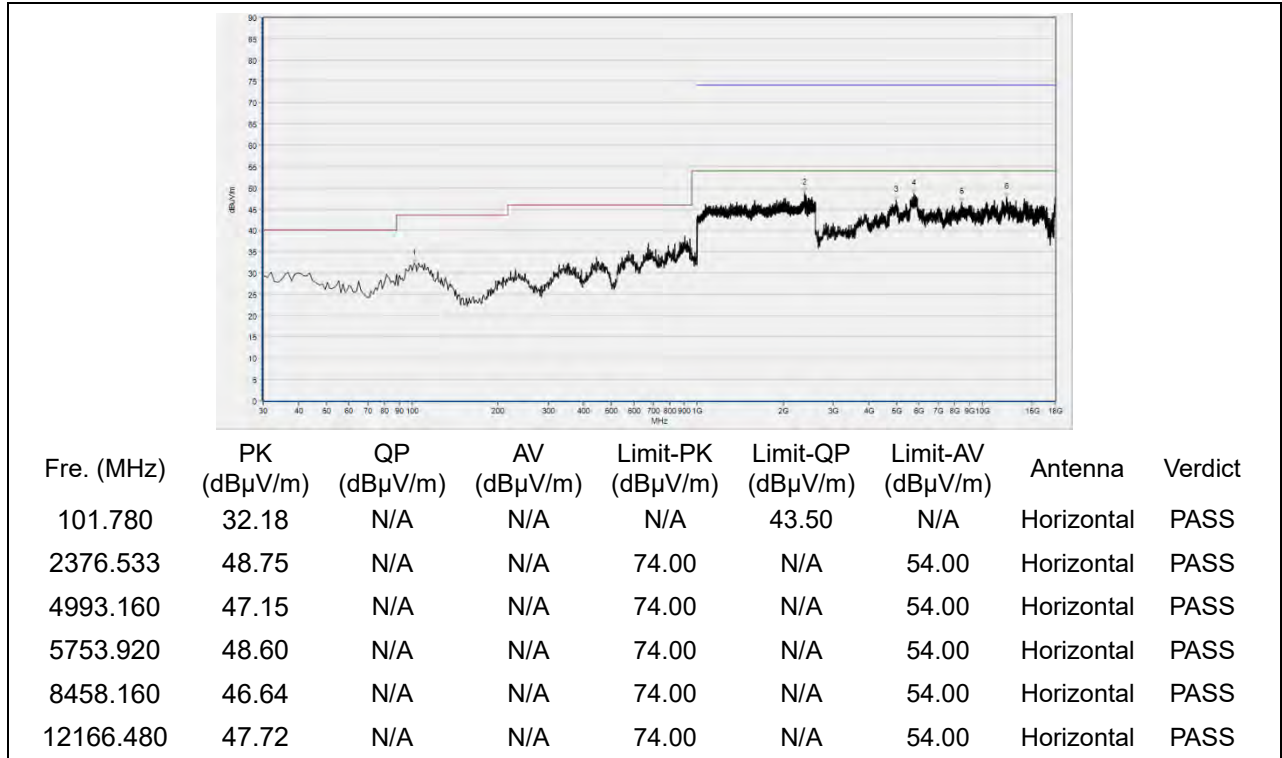
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2332.267	51.63	N/A	38.40	74.00	N/A	54.00	Vertical	PASS
2476.800	54.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5399.720	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6000.320	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12144.920	48.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

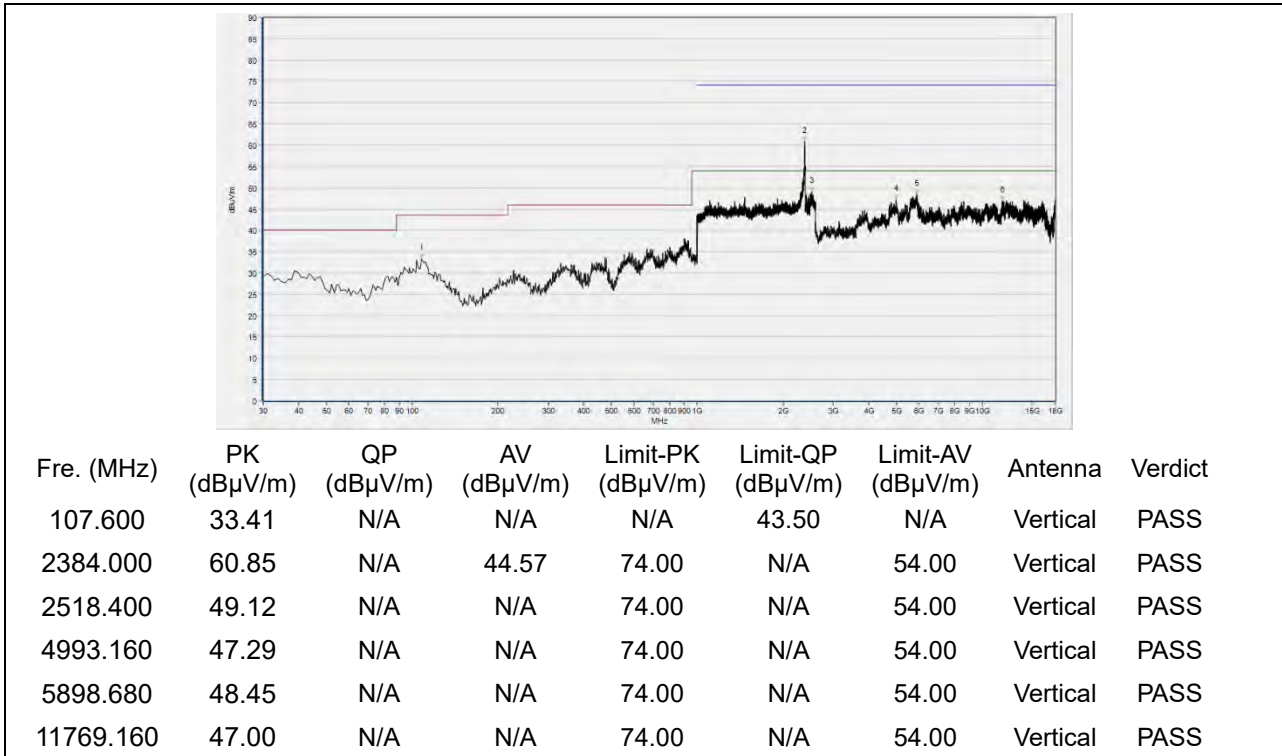


802.11n (HT40) Mode

Plot for Channel 3



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



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	32.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2454.400	48.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4817.600	45.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5676.920	49.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8978.680	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12277.360	48.29	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	32.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2370.133	51.79	N/A	40.02	74.00	N/A	54.00	Vertical	PASS
2510.933	50.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5686.160	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8381.160	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12160.320	48.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

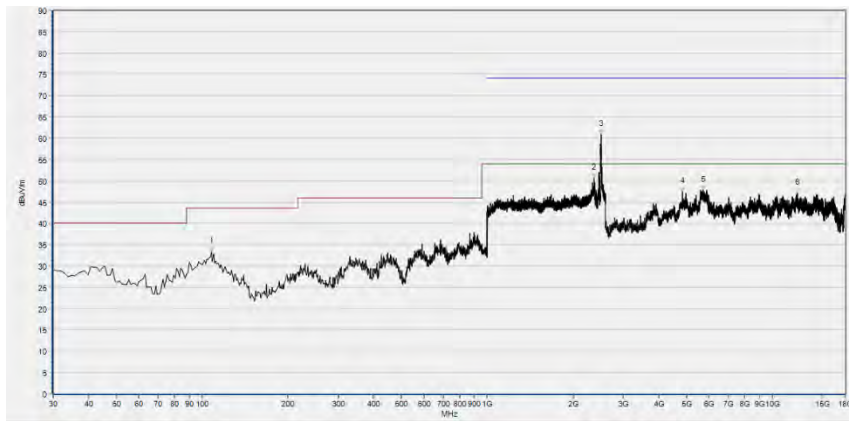


Plot for Channel 11



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	32.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2504.000	50.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4802.200	46.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.120	48.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8436.600	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12489.880	47.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



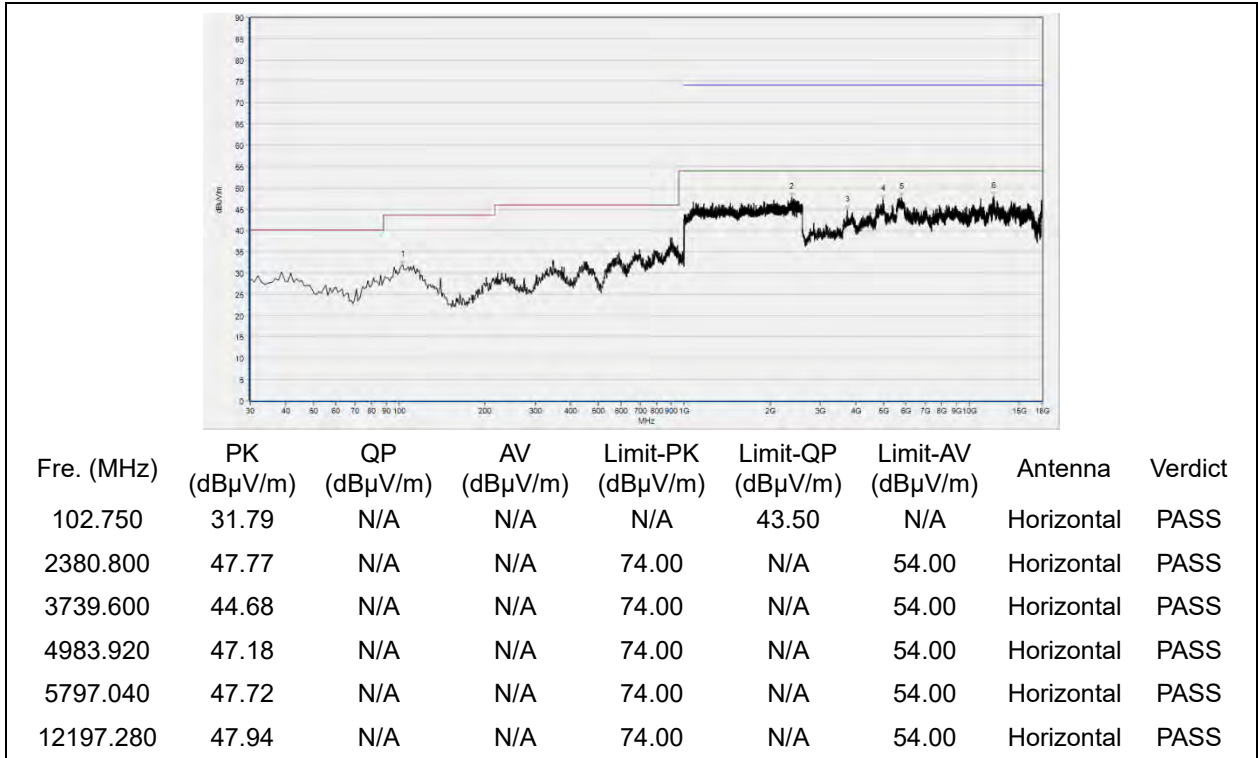
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	33.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2373.867	50.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2507.733	60.85	N/A	42.35	74.00	N/A	54.00	Vertical	PASS
4848.400	47.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12203.440	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

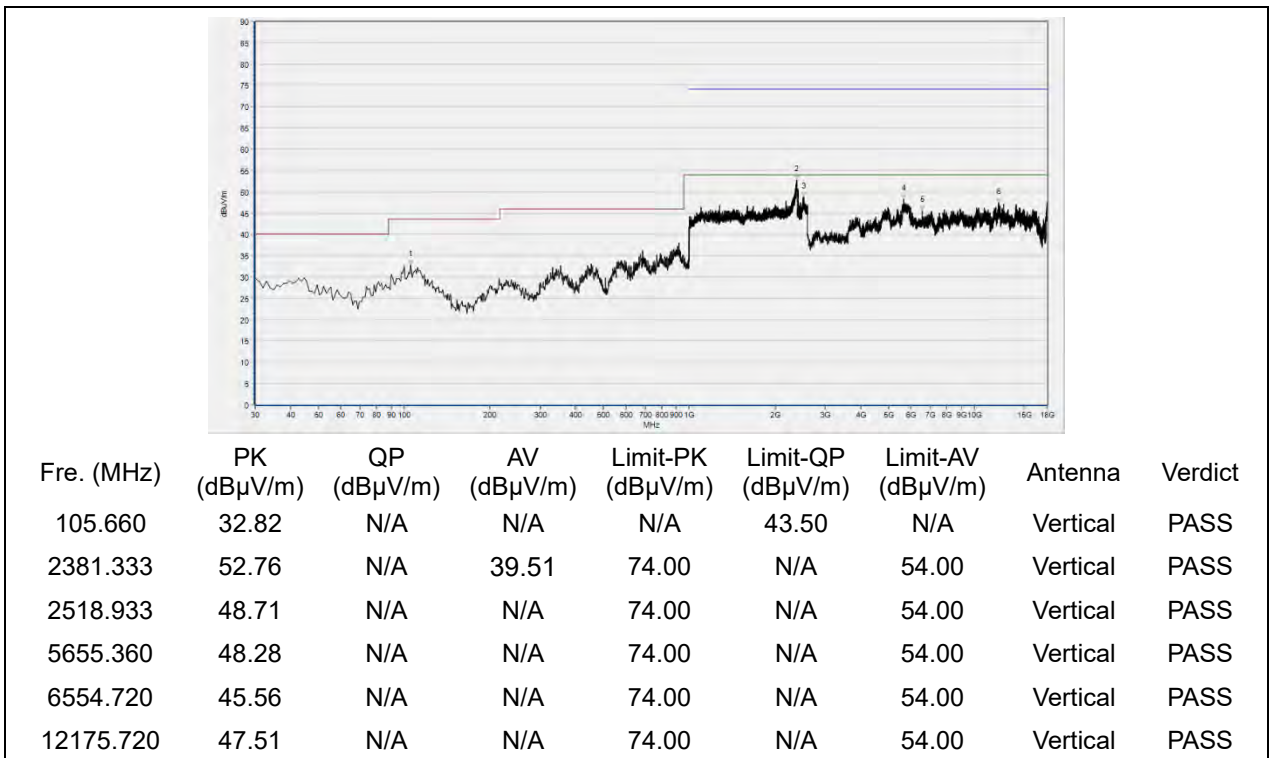


802.11ax (HEW20) Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



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	32.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2412.800	48.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3878.200	44.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5624.560	48.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	45.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14017.560	46.90	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	31.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2453.867	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4983.920	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5624.560	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9006.400	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12151.080	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

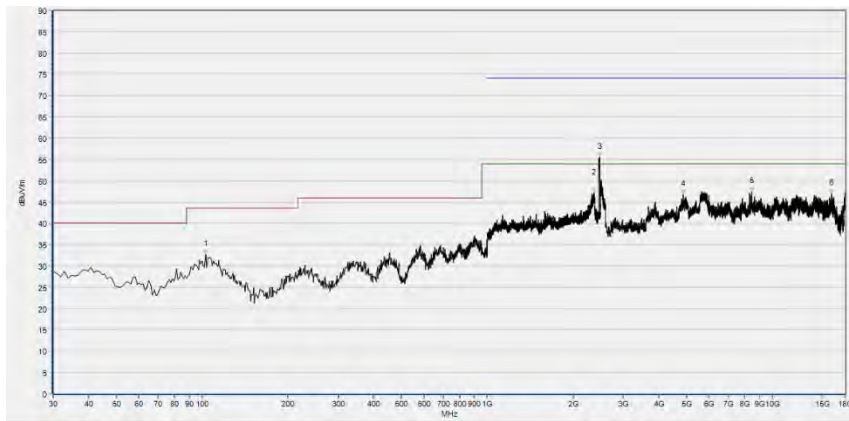
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



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	31.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2410.133	48.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5020.880	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.040	47.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8439.680	45.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11750.680	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



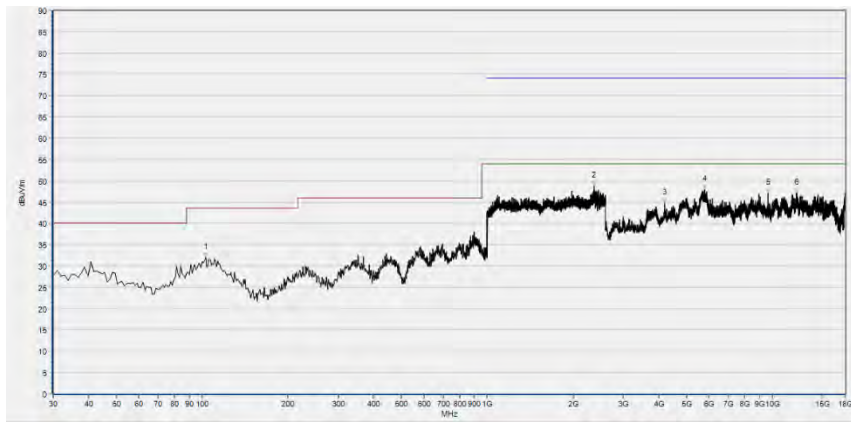
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.71	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2366.933	47.08	N/A	38.40	74.00	N/A	54.00	Vertical	PASS
2474.667	55.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4869.960	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8470.480	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16173.560	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



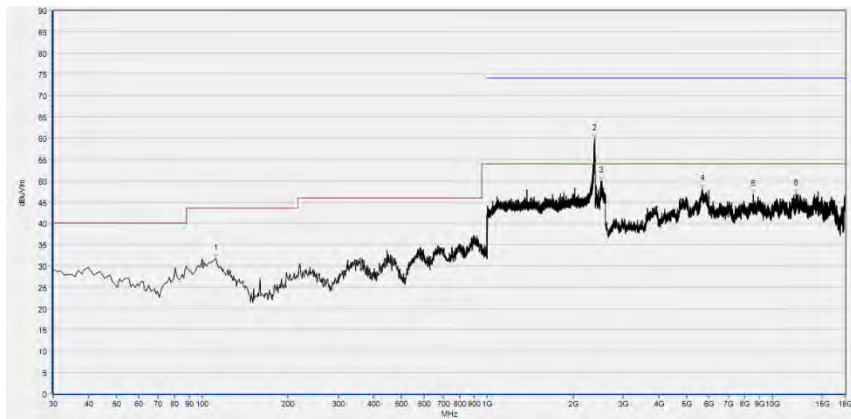
802.11n (HT40) Mode

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
102.750	32.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2373.867	48.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4195.440	44.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5793.960	47.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9643.960	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12151.080	47.03	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
111.480	31.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2385.600	59.85	N/A	43.54	74.00	N/A	54.00	Vertical	PASS
2507.200	49.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5689.240	48.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8581.360	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12126.440	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

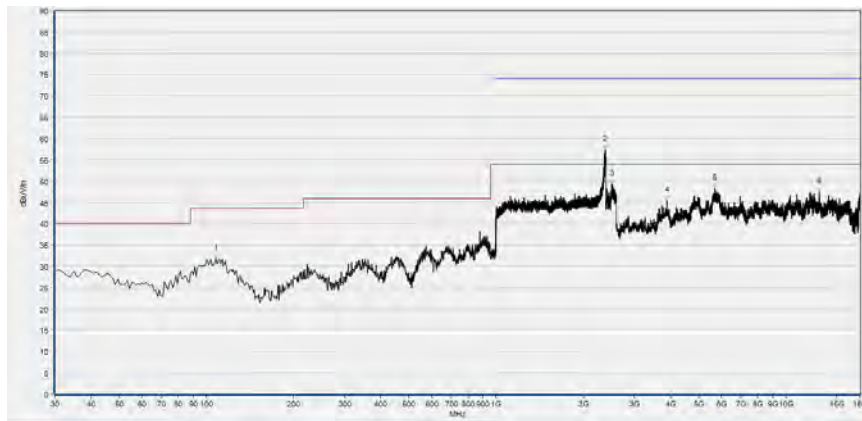
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



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	32.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2385.600	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4888.440	45.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5821.680	48.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8938.640	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12172.640	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

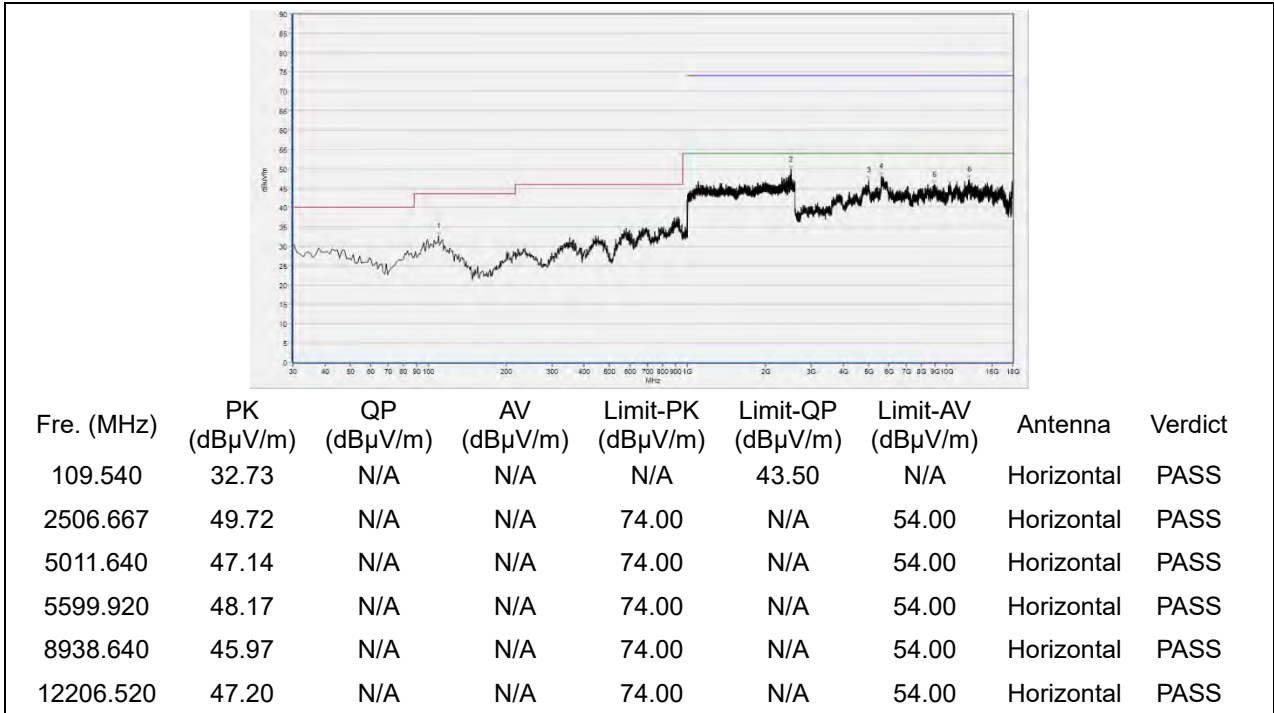


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2378.667	57.25	N/A	41.30	74.00	N/A	54.00	Vertical	PASS
2509.867	49.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3890.520	45.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5670.760	48.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13044.280	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

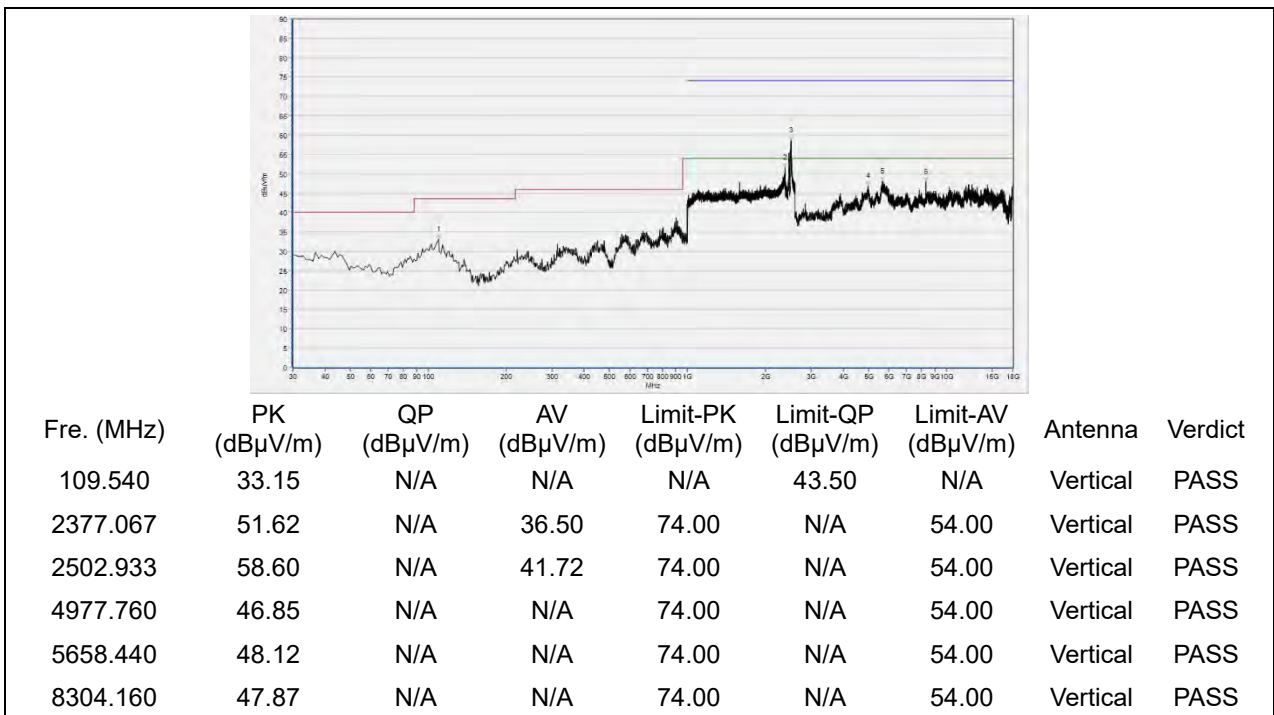
(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 11



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————