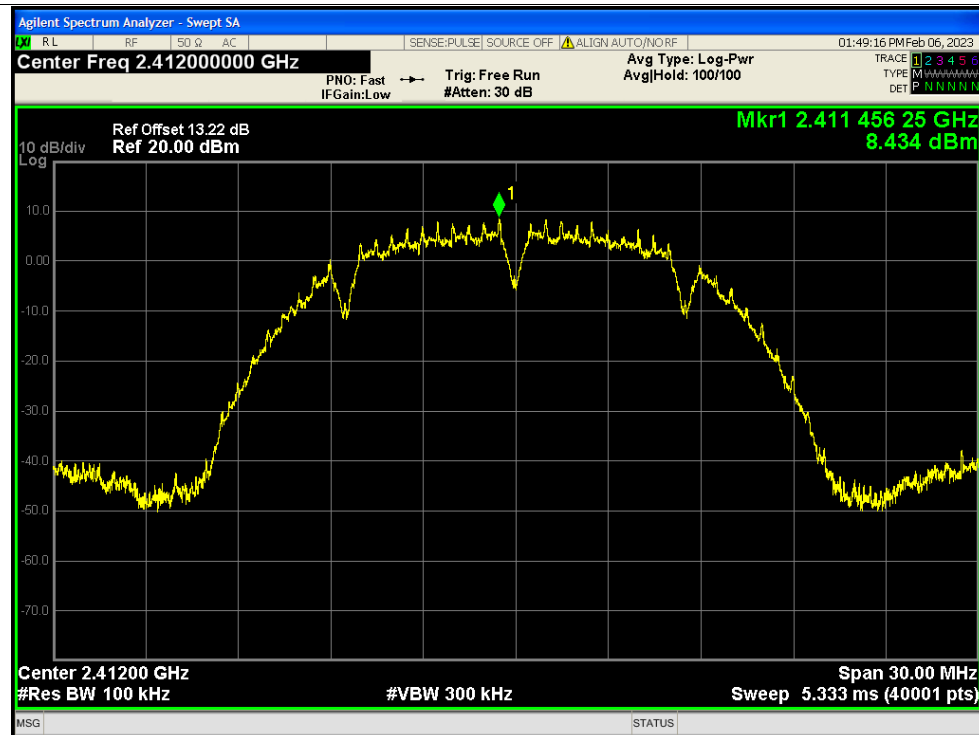


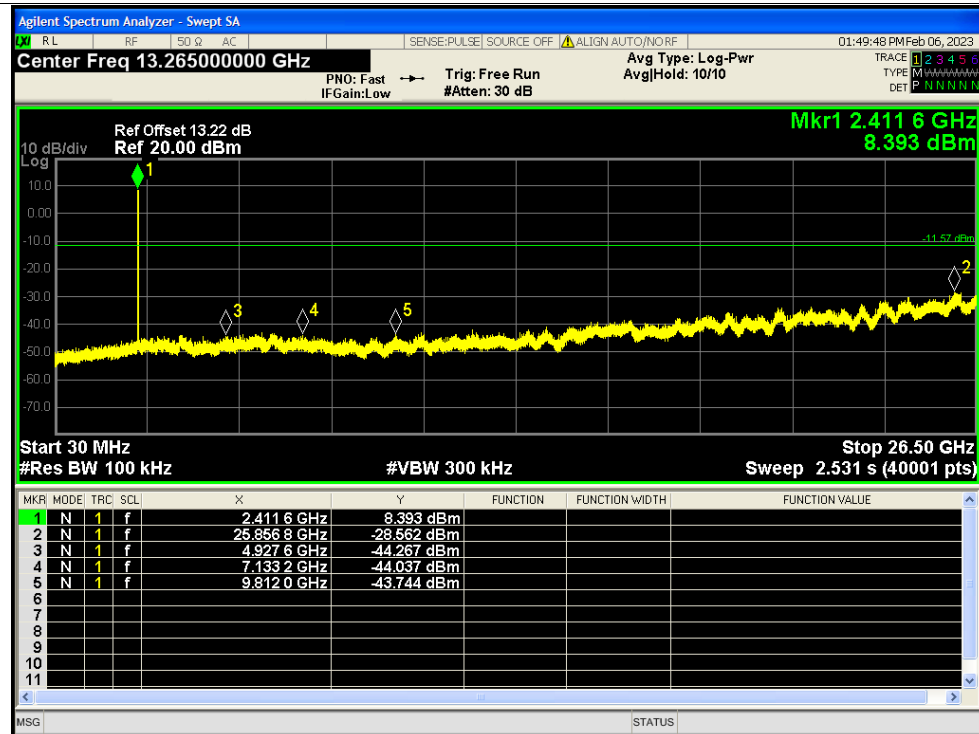


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

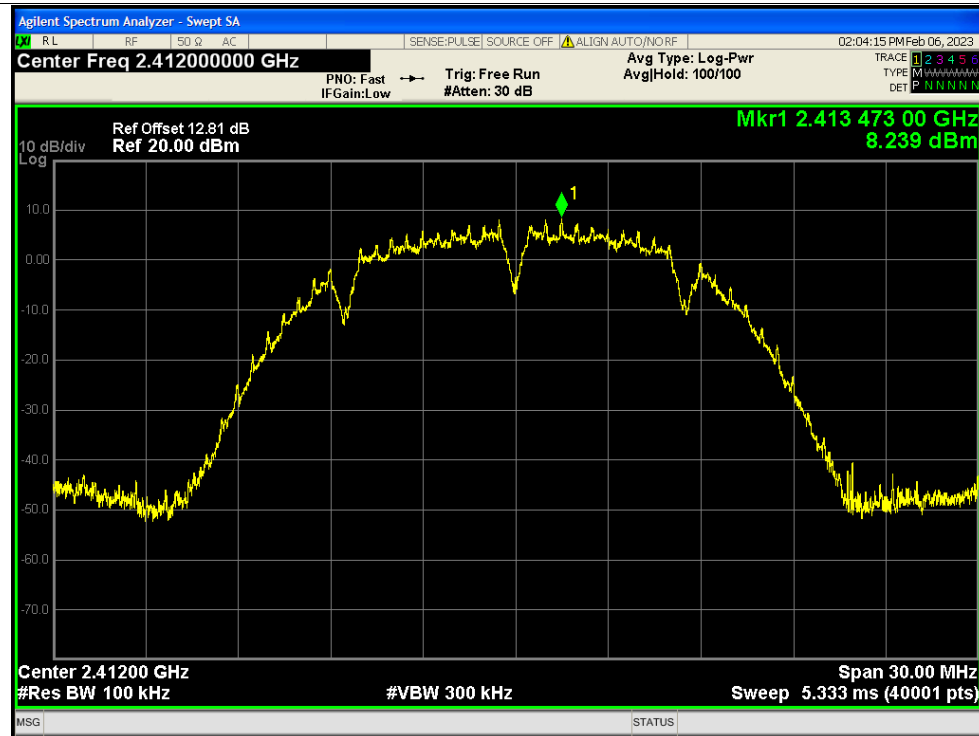


Tx. Spurious NVNT b 2412MHz Ant1 Emission

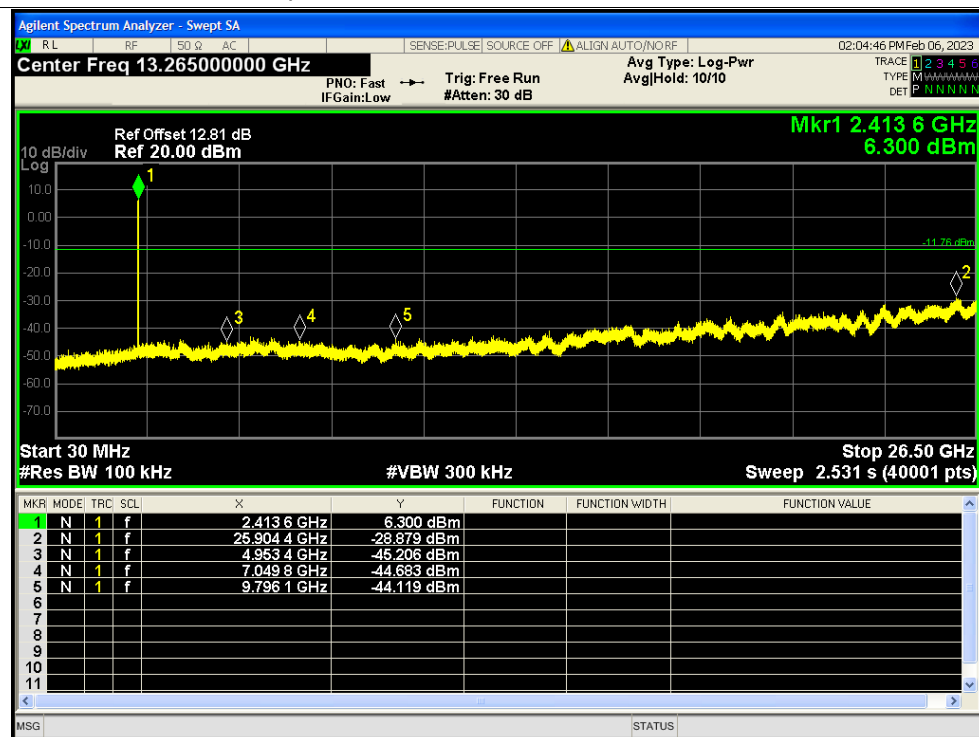




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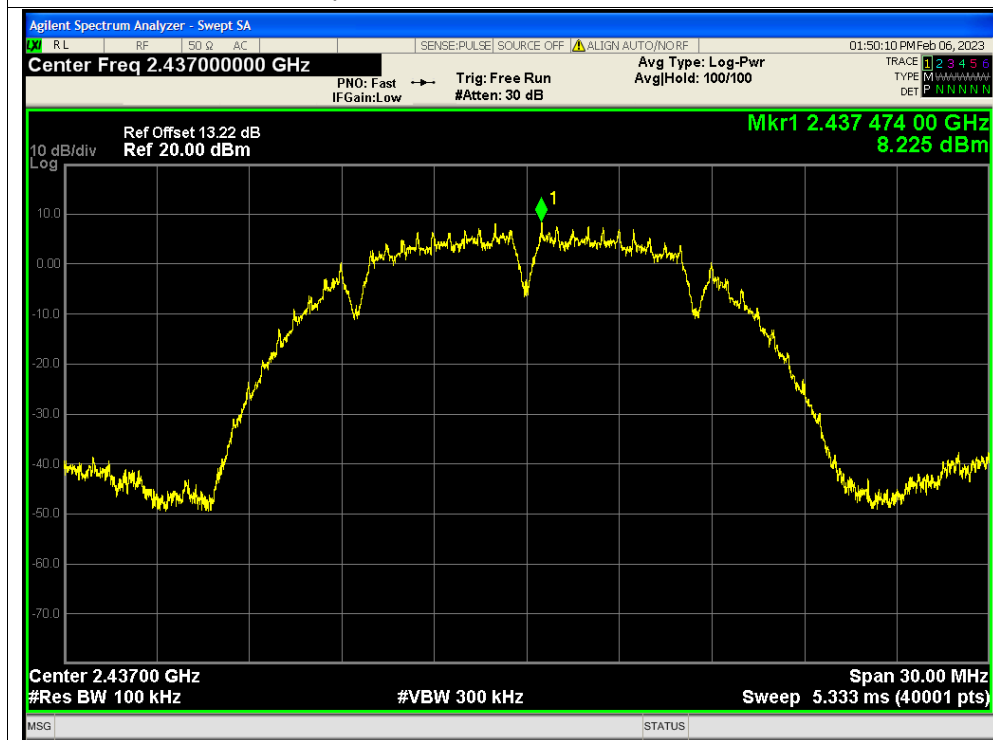


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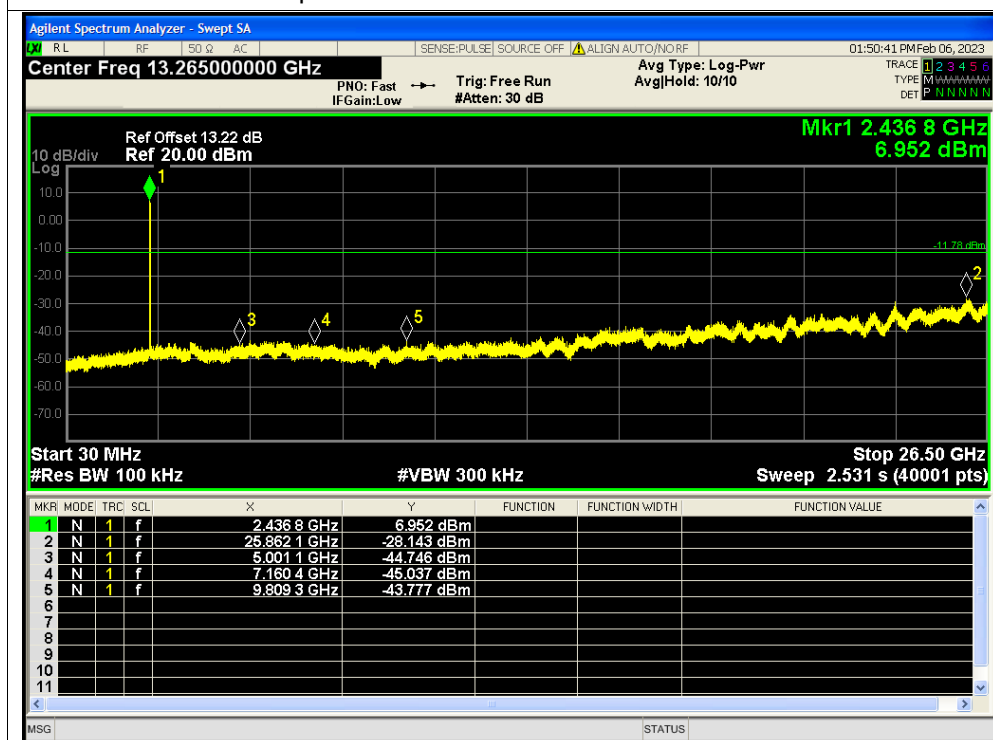




Tx. Spurious NVNT b 2437MHz Ant1 Ref

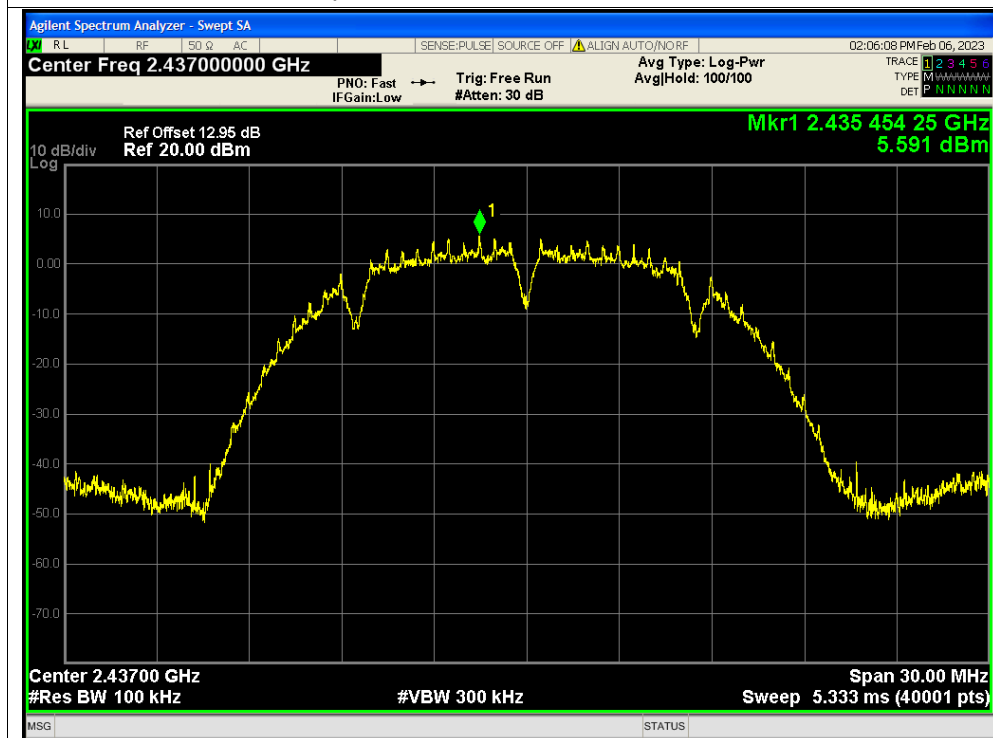


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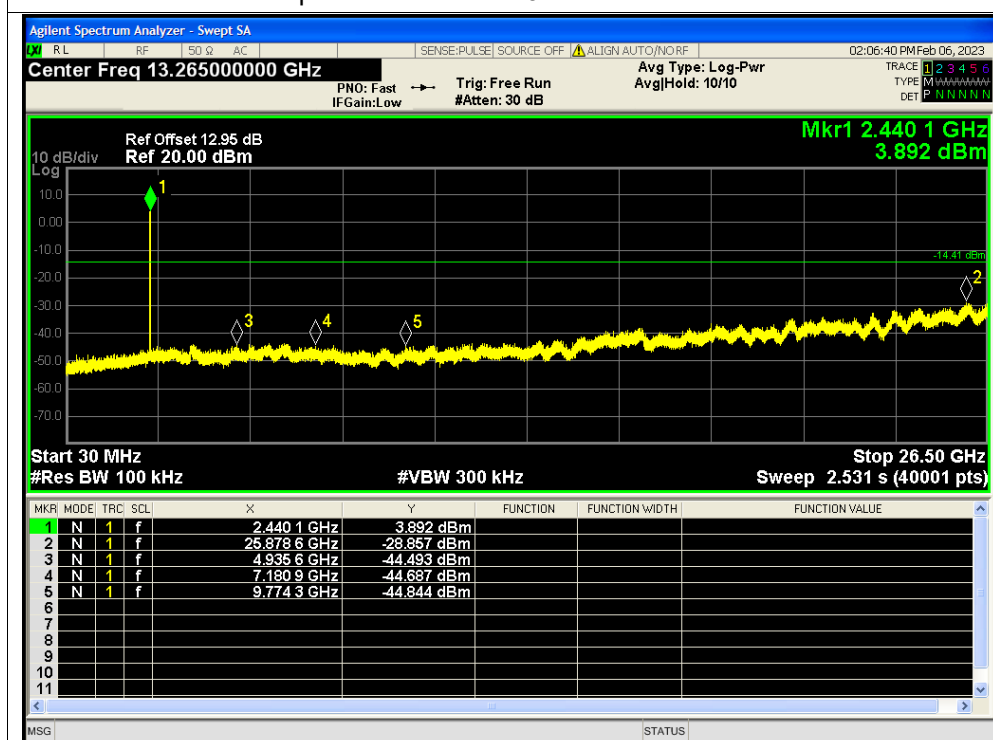




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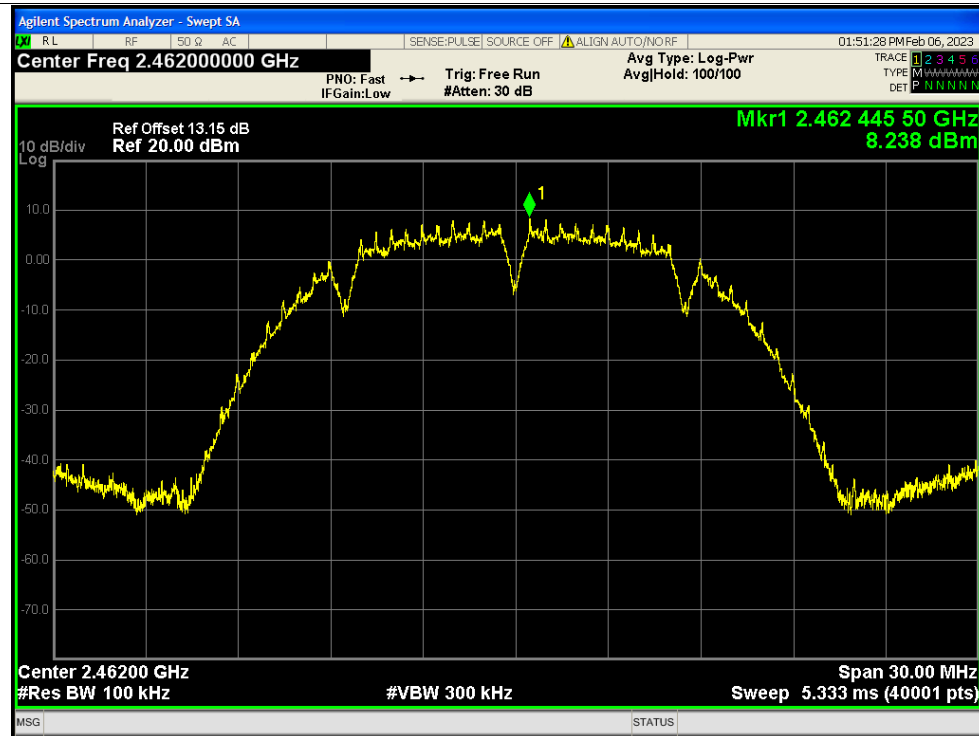


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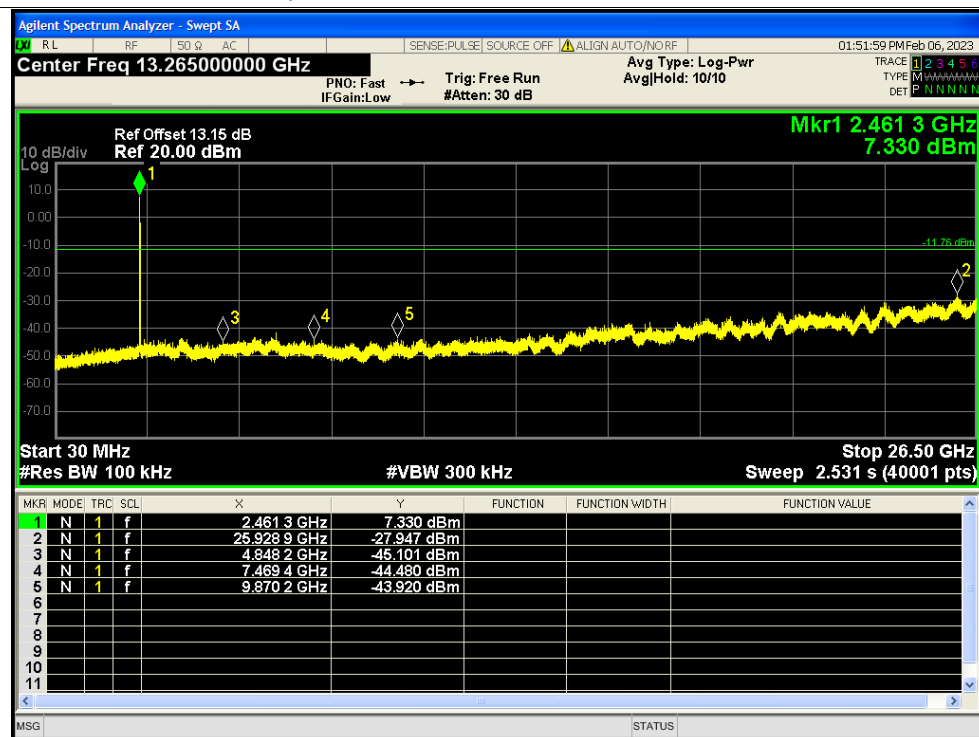




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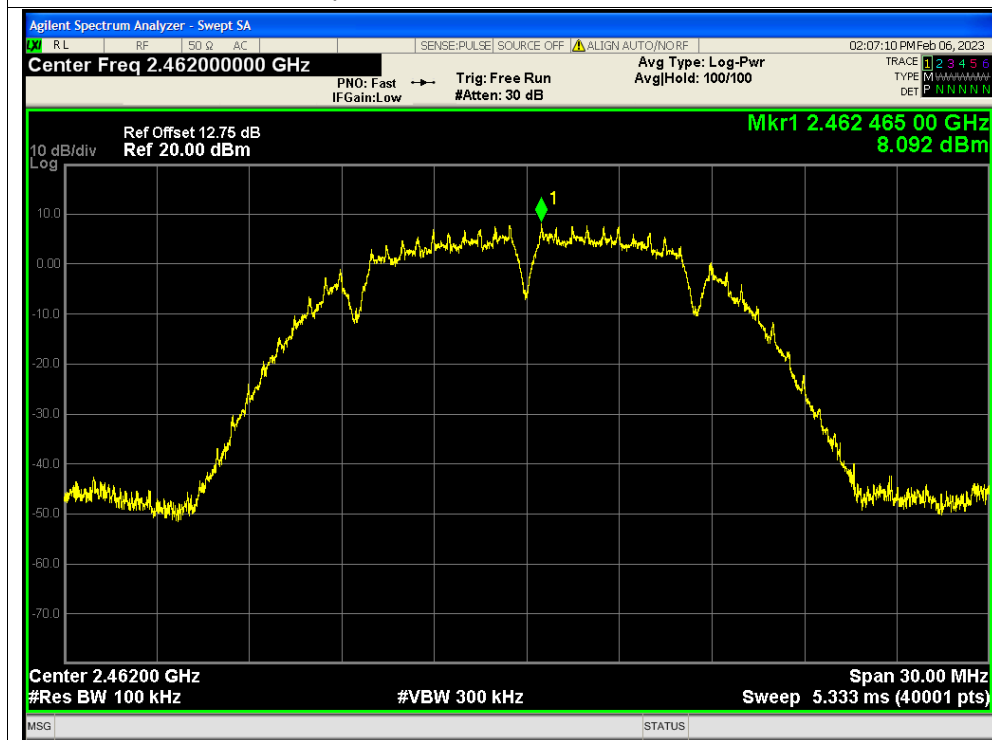


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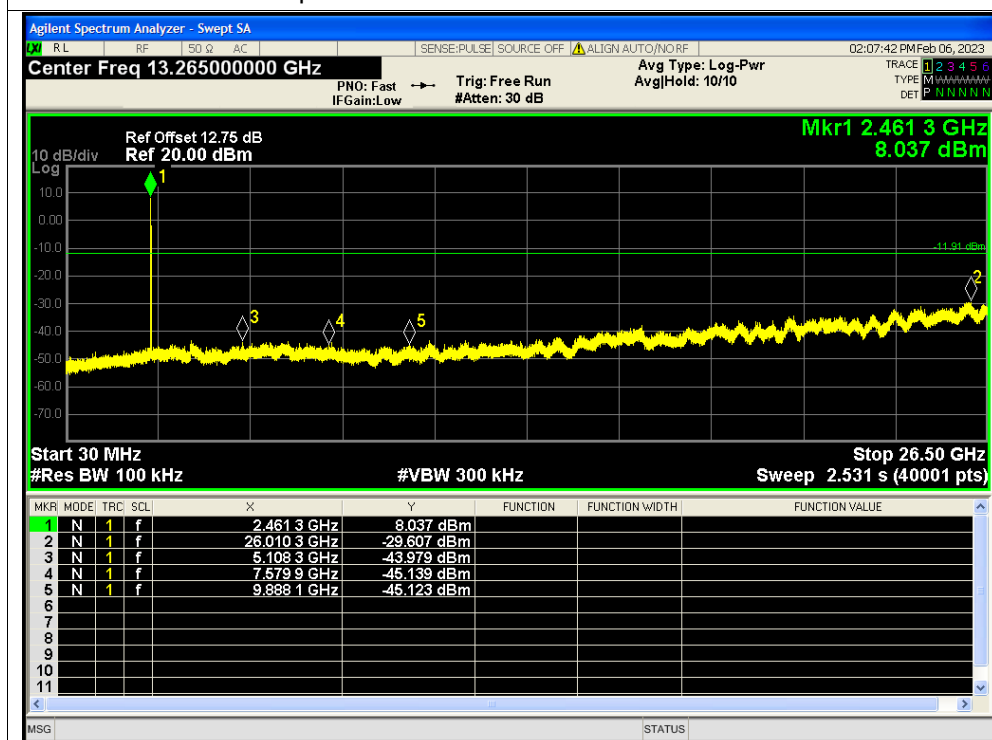




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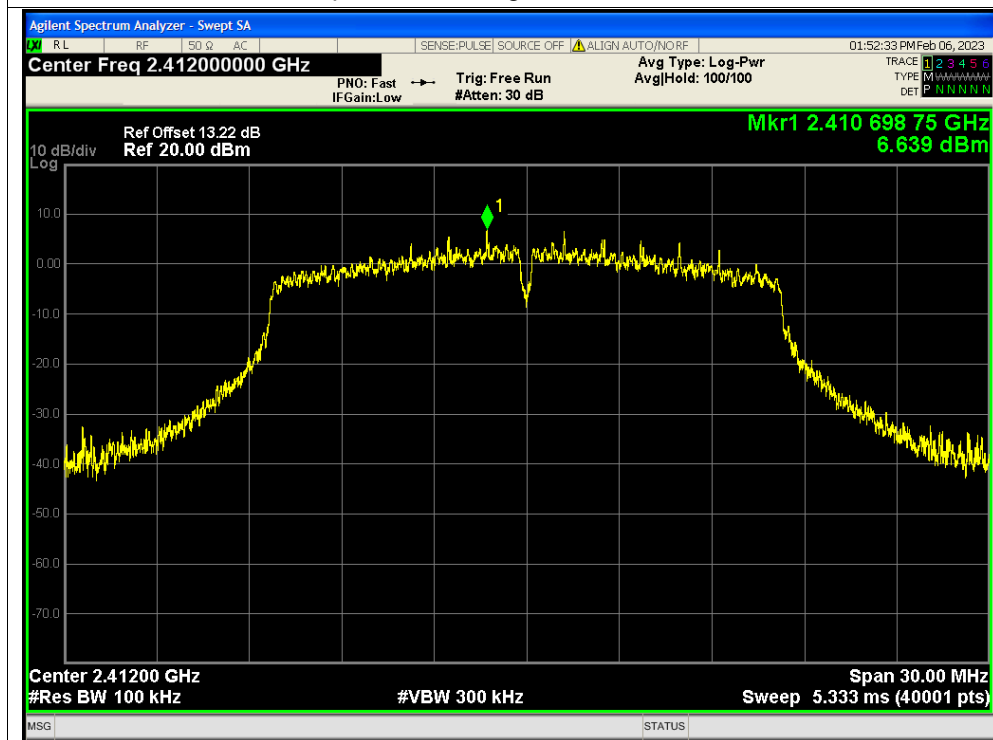


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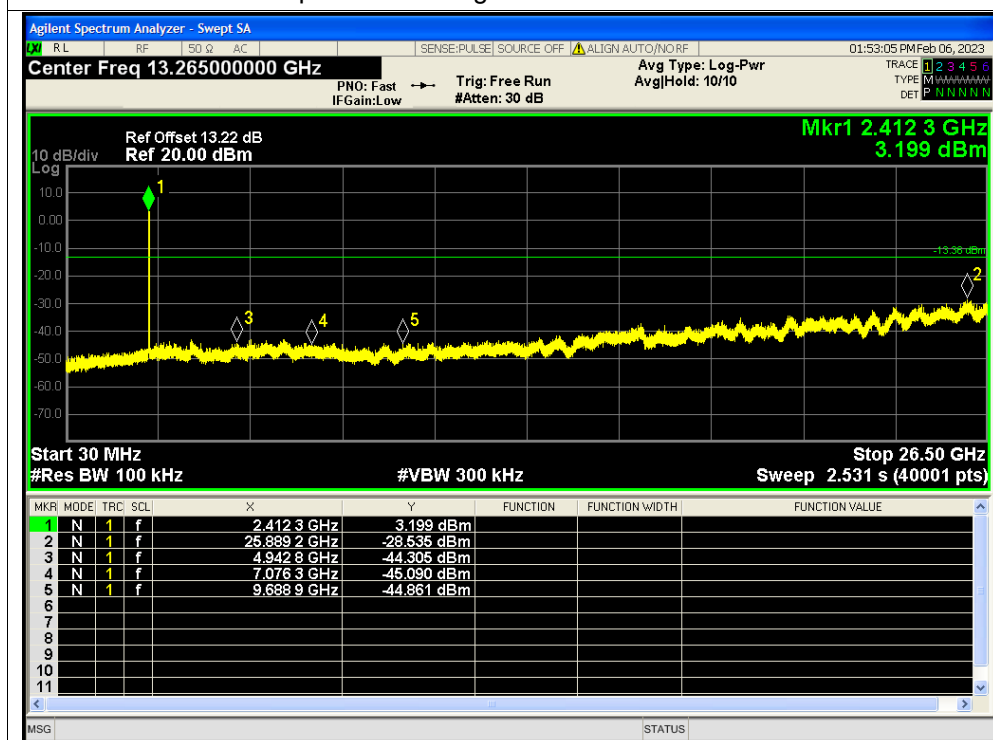




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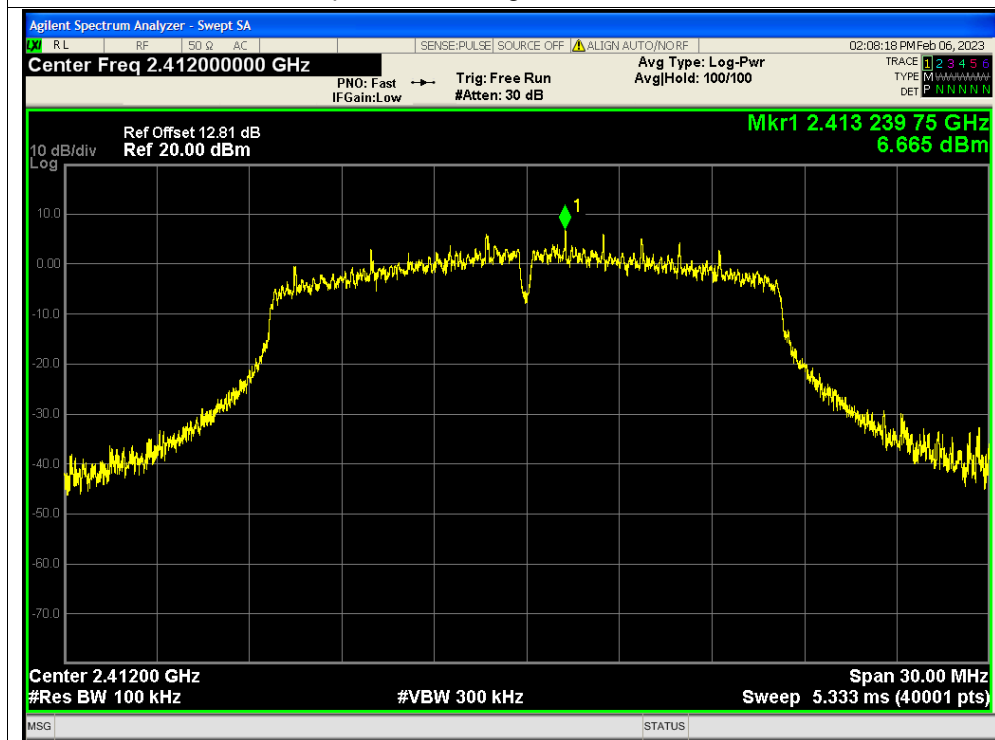


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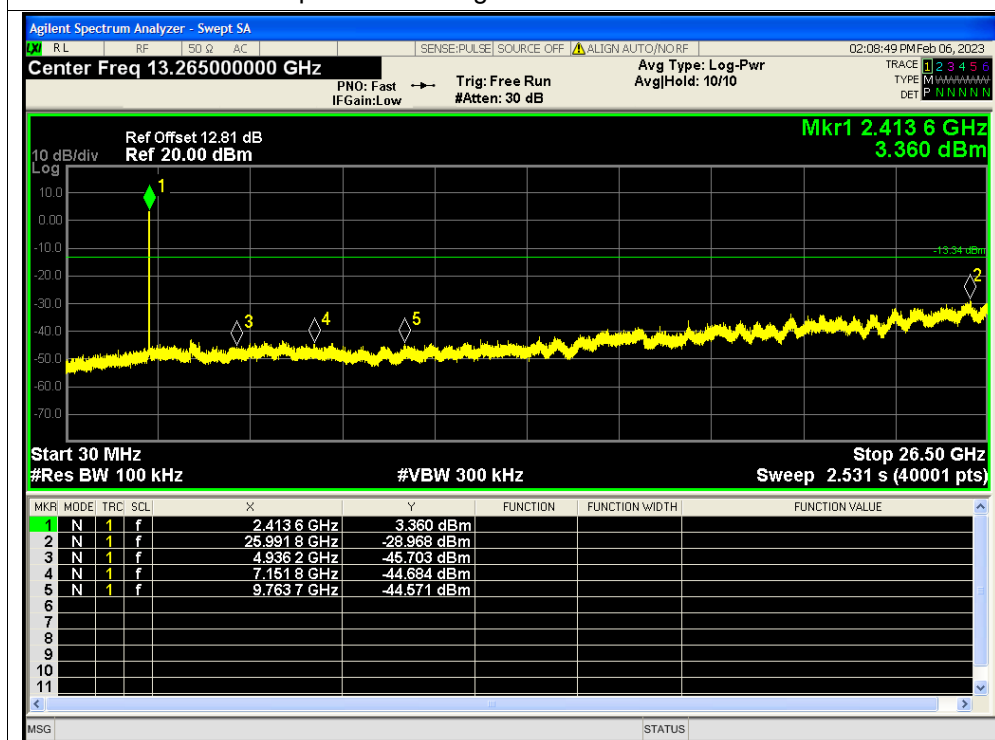




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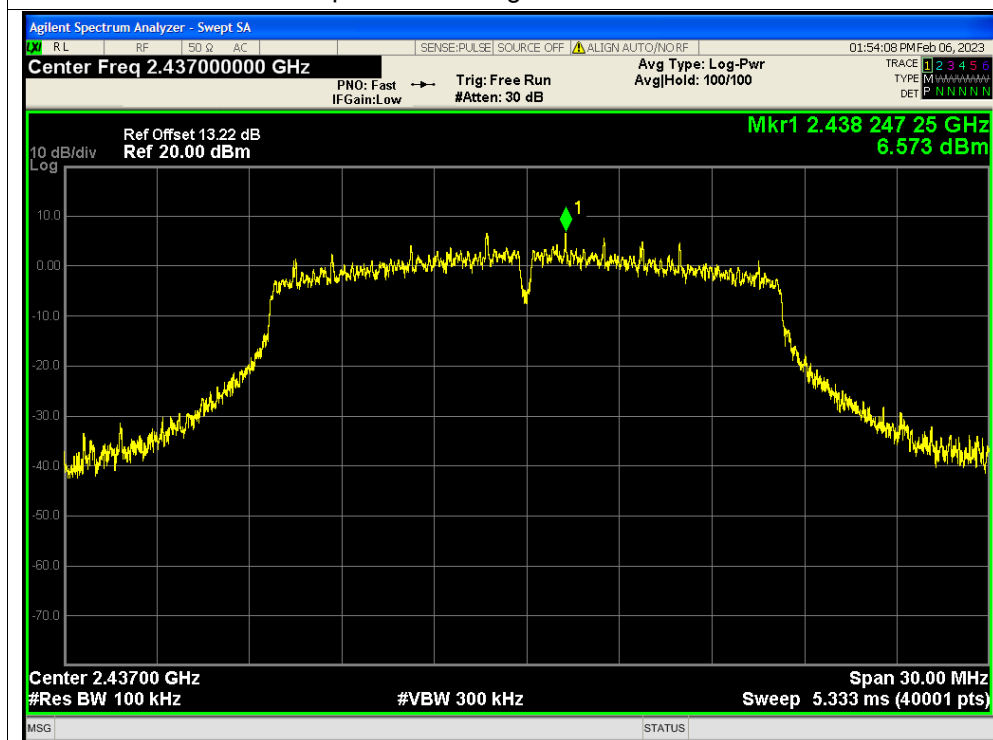


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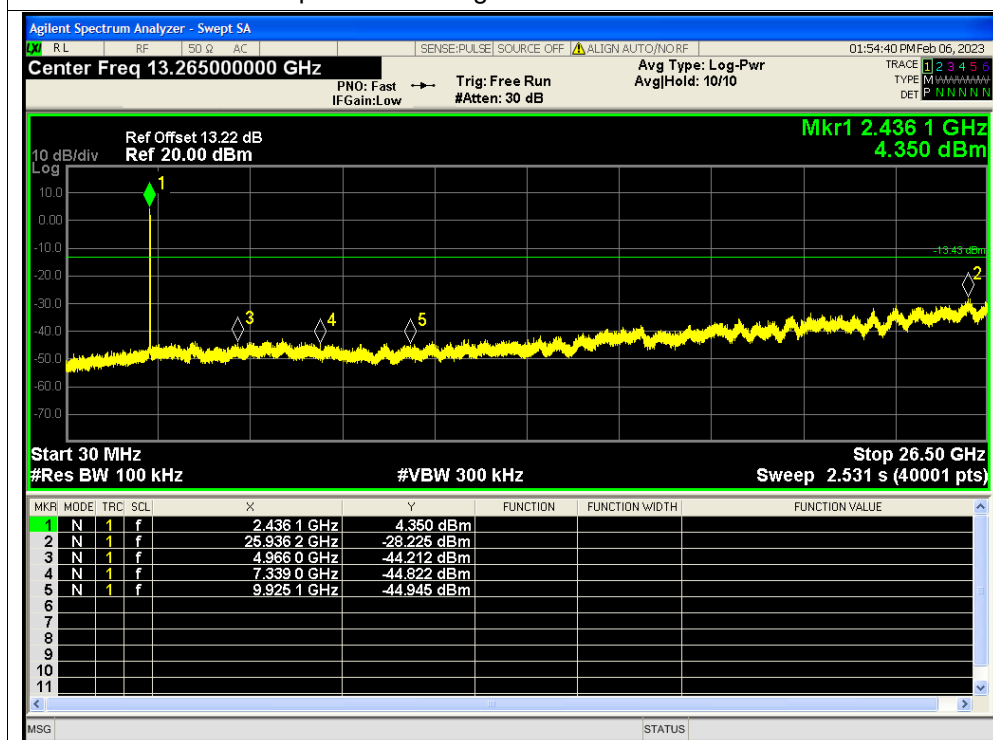




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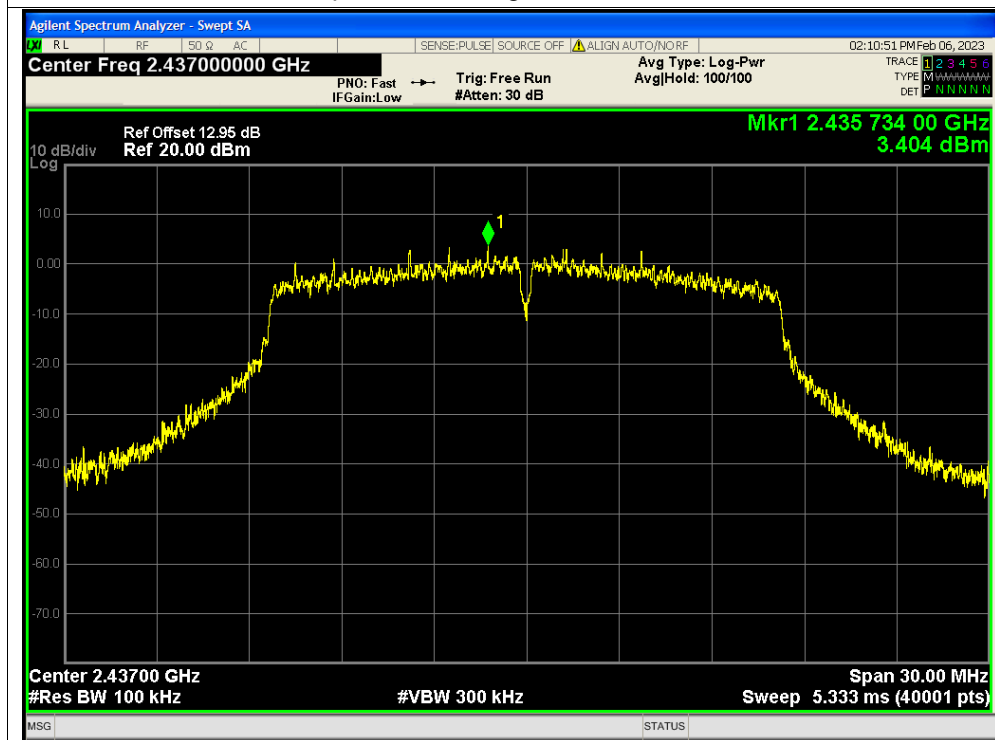


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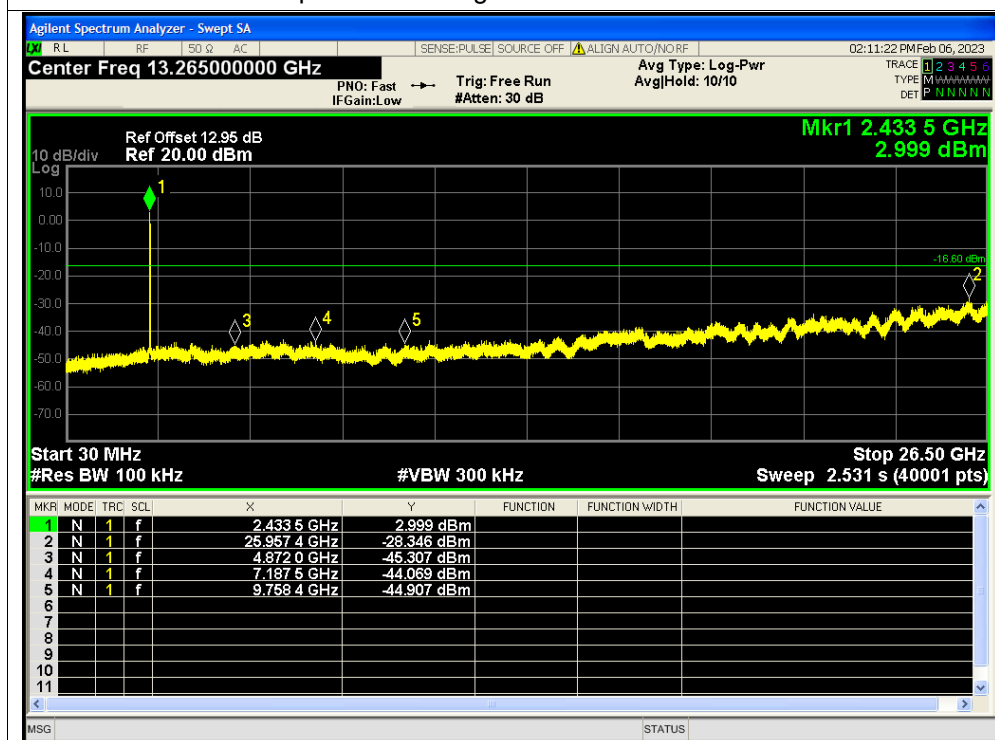




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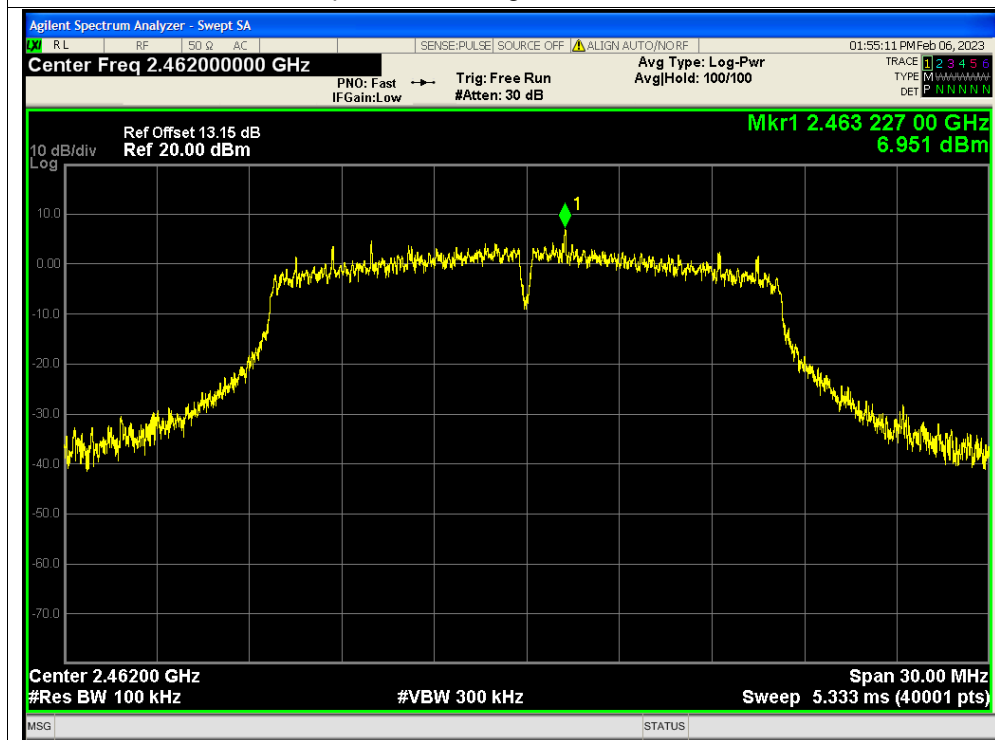


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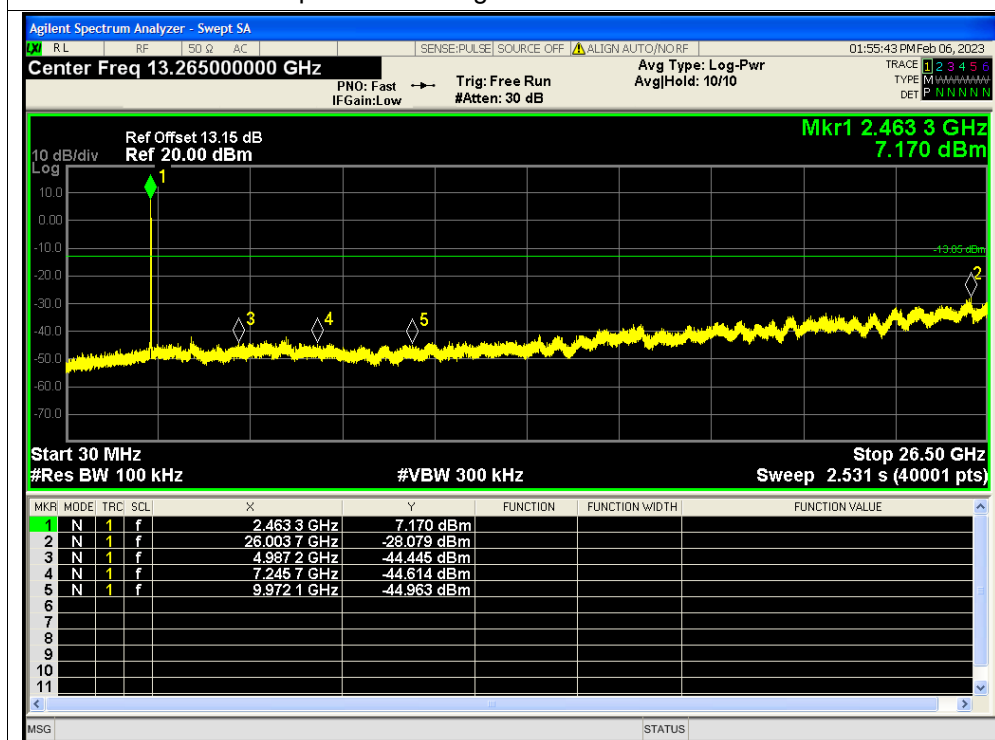




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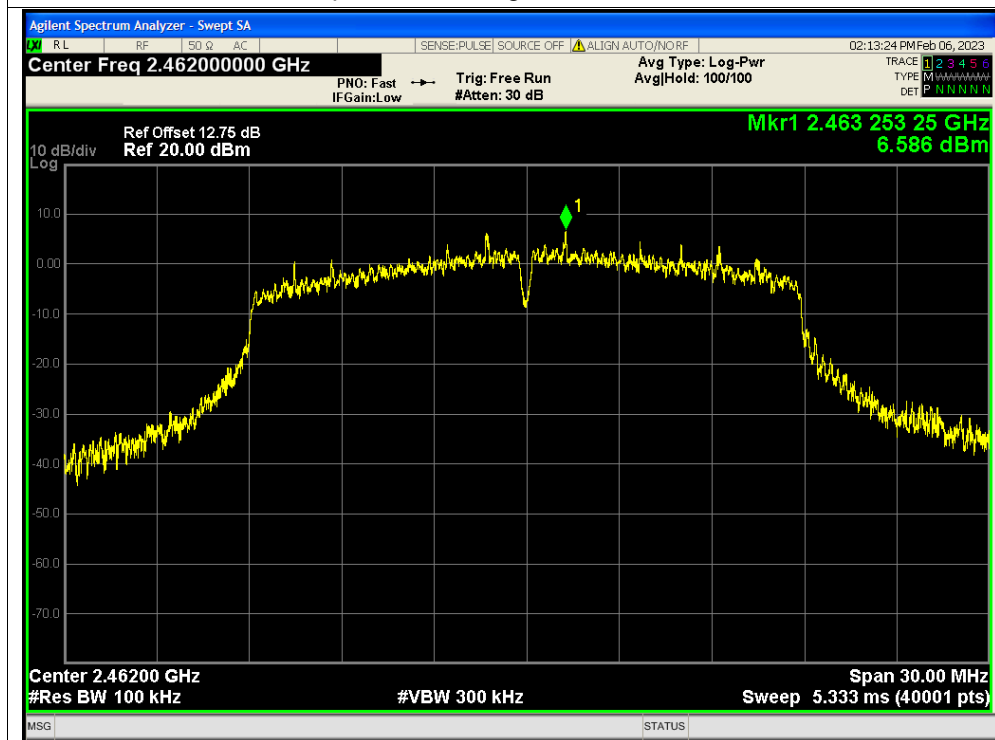


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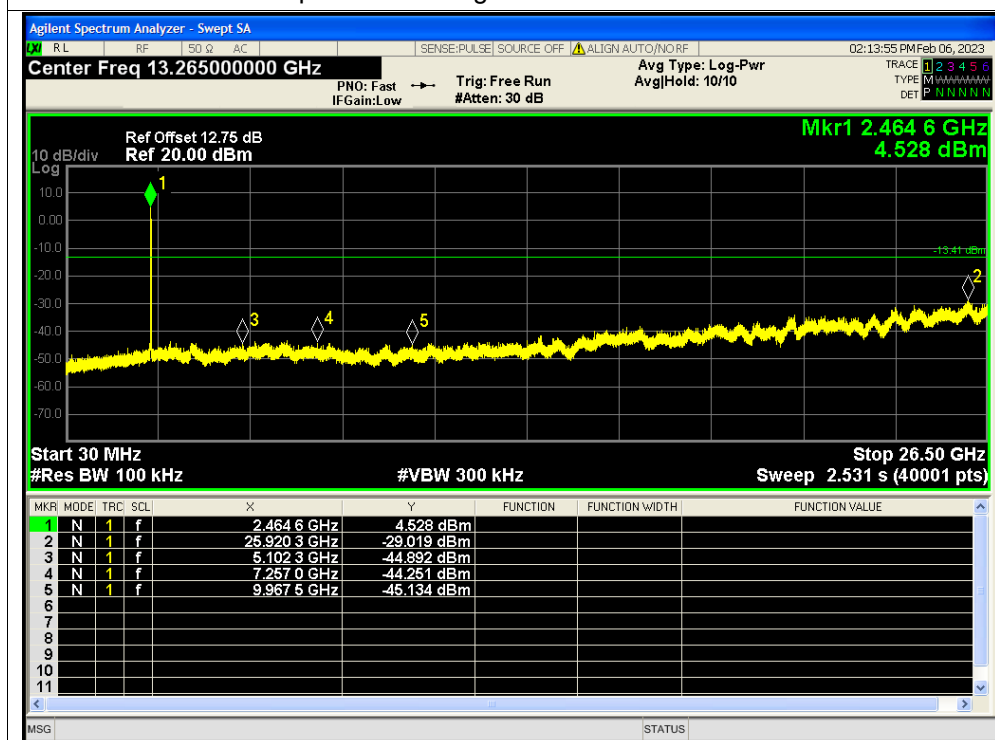




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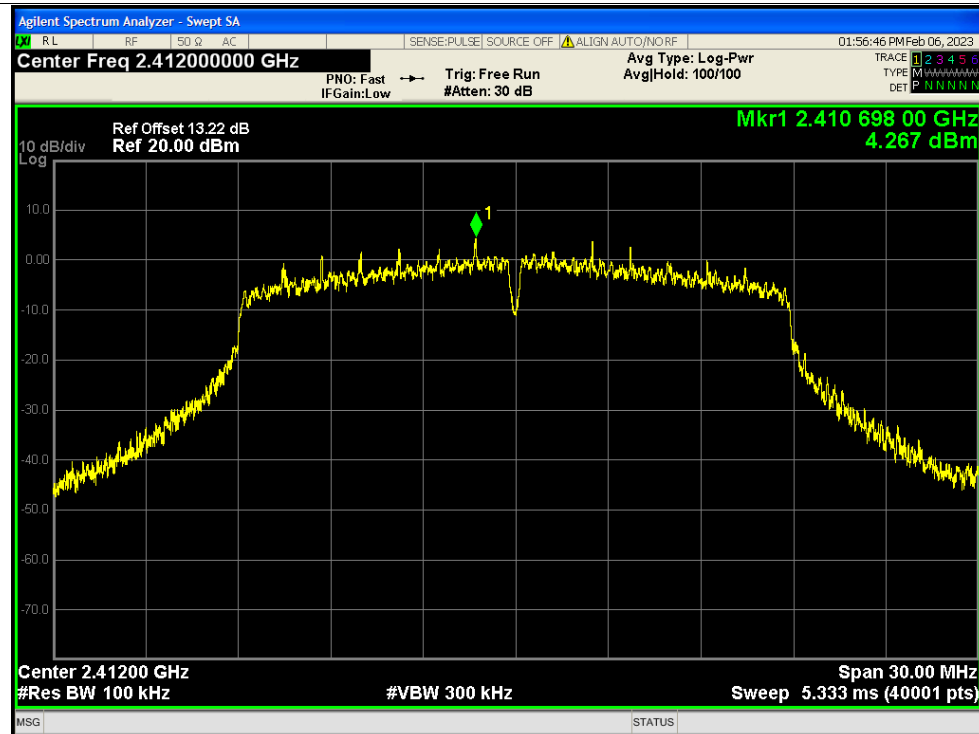


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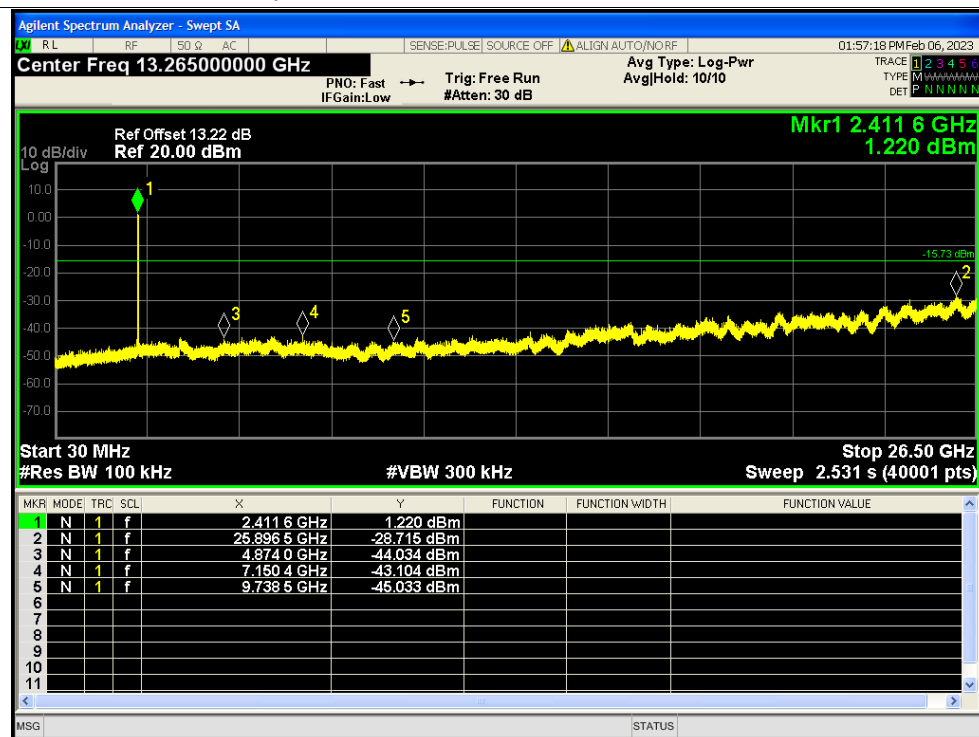




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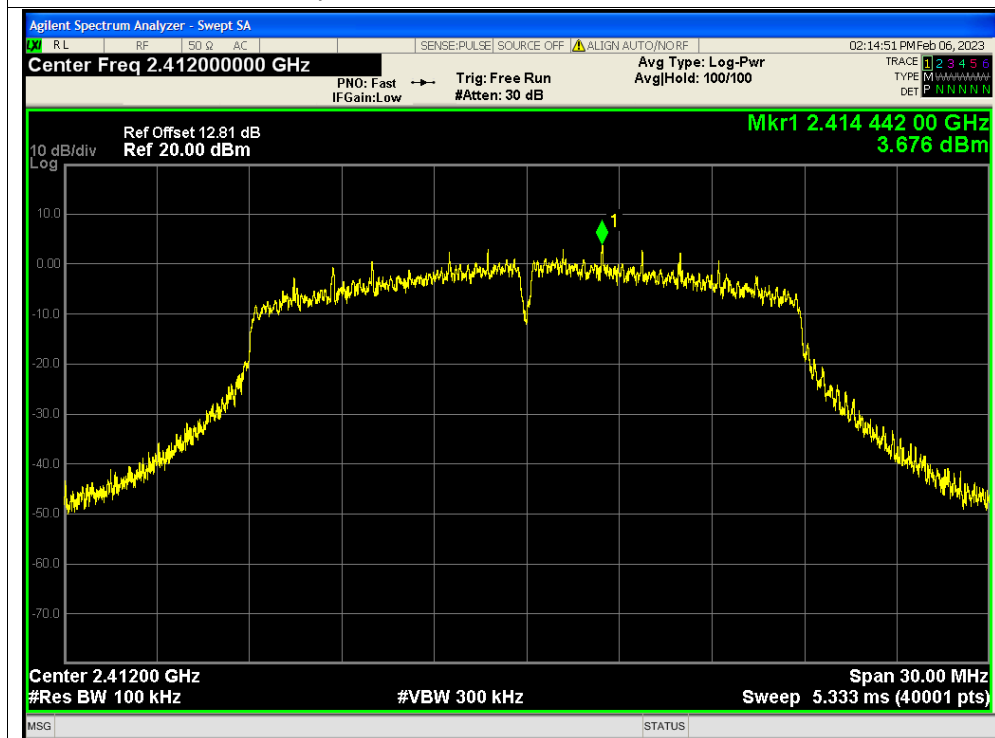


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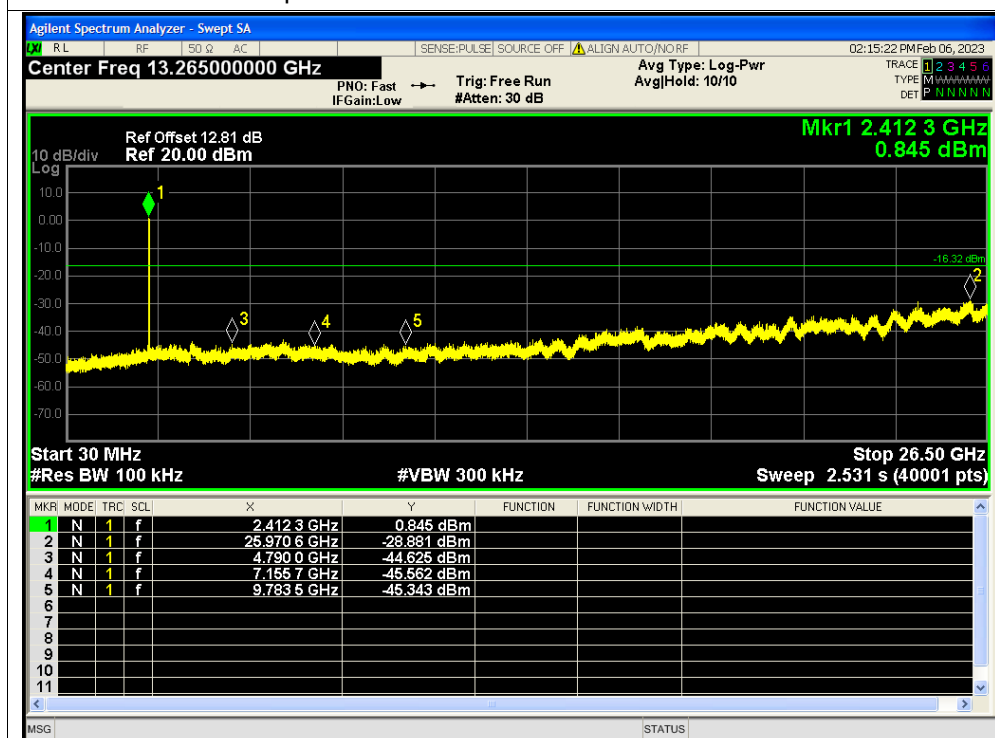




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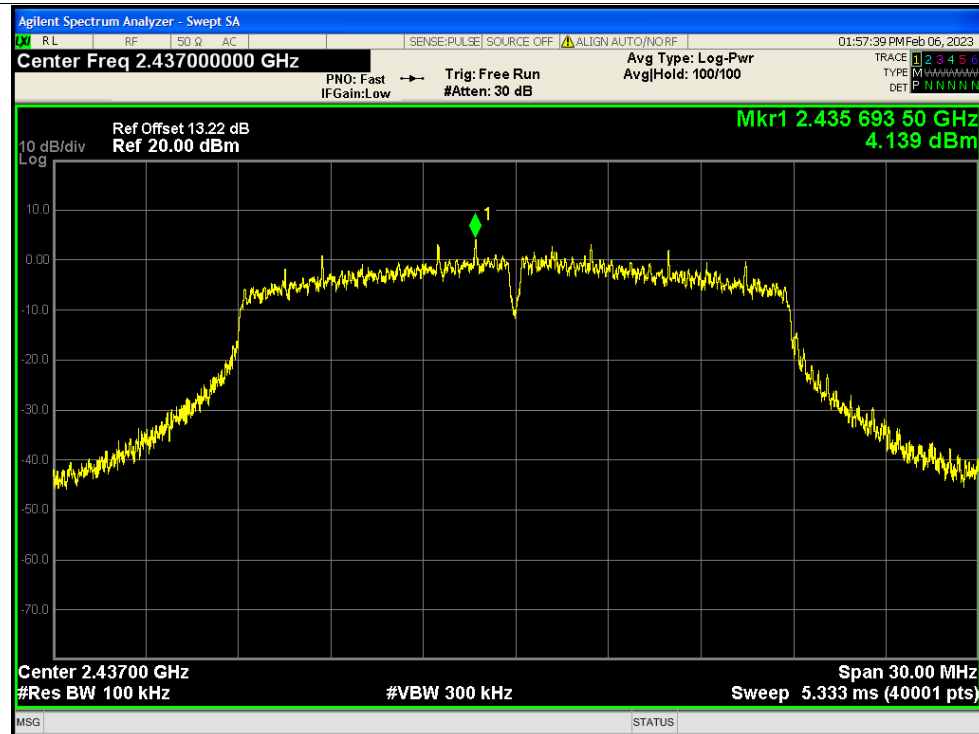


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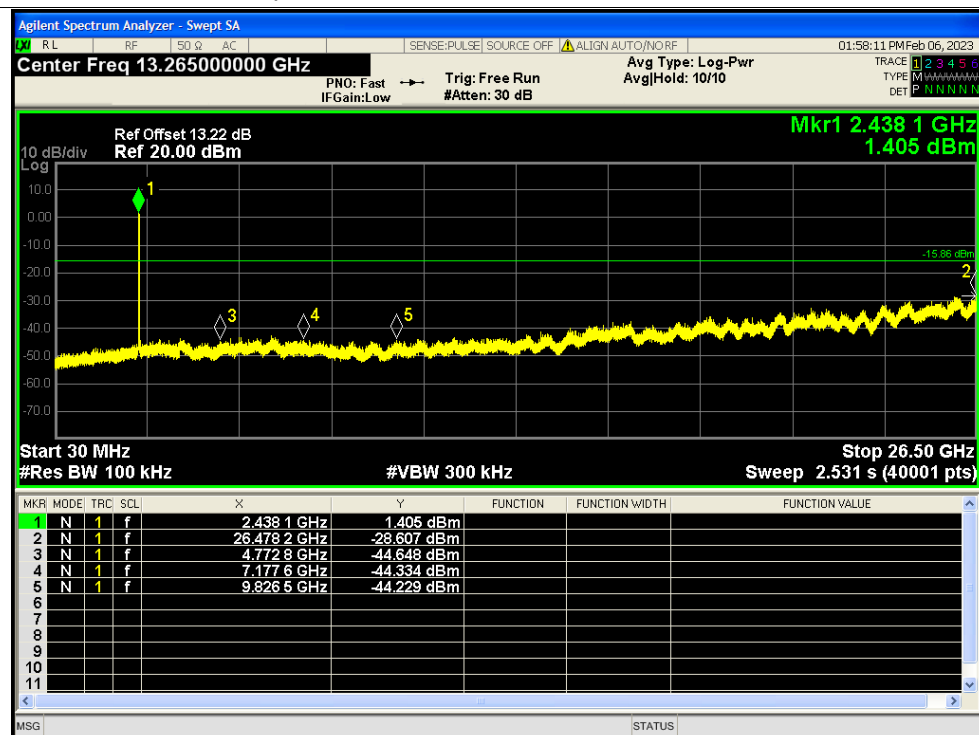




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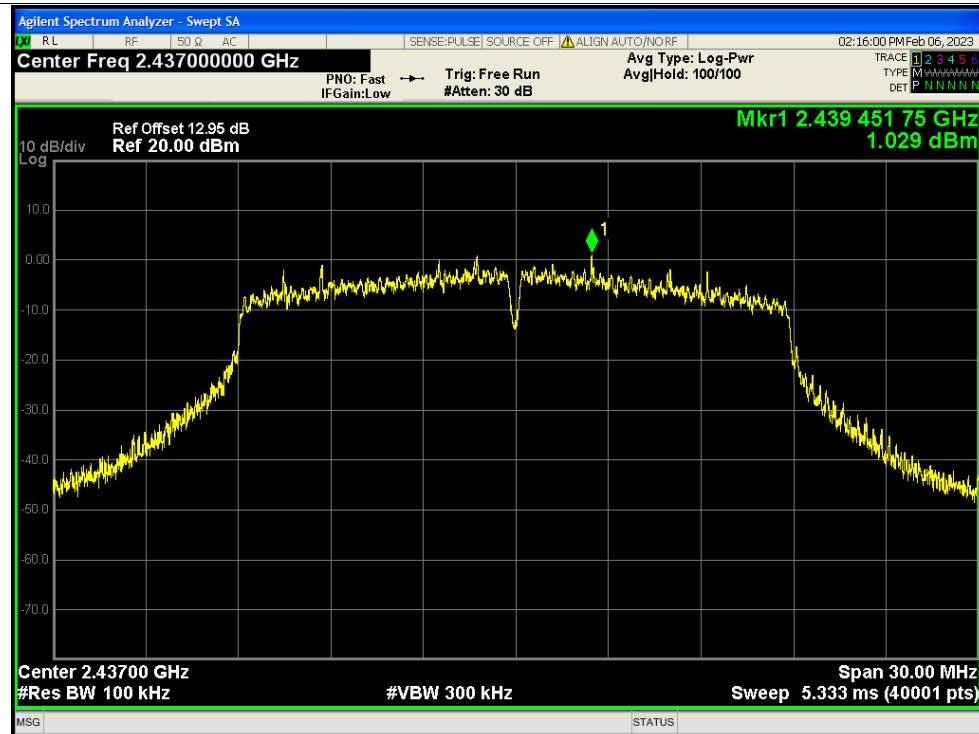


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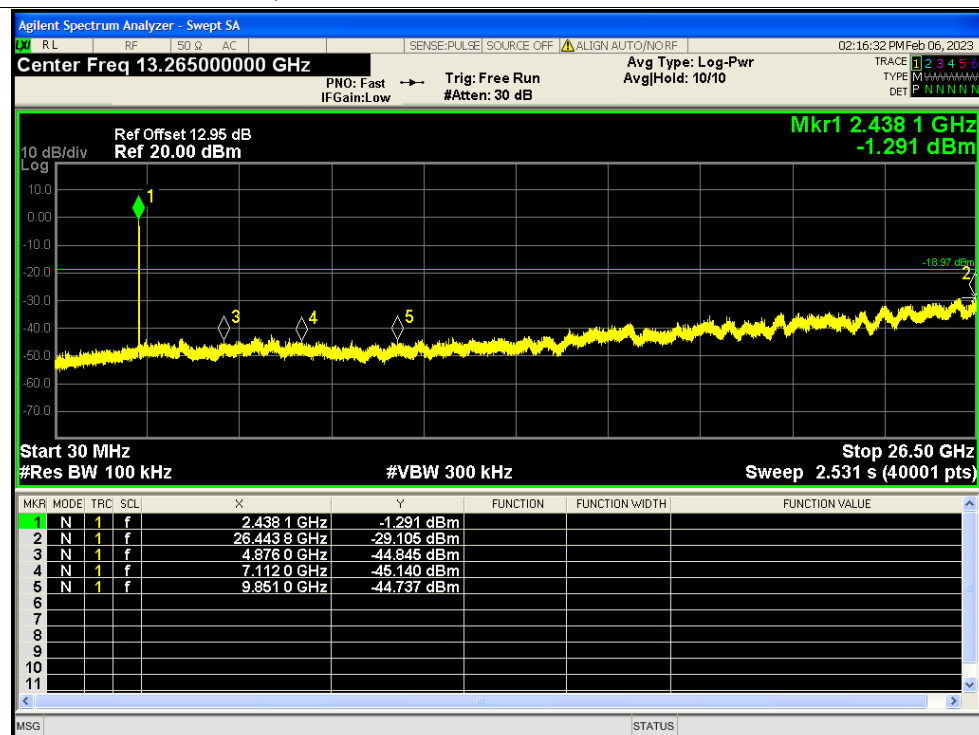




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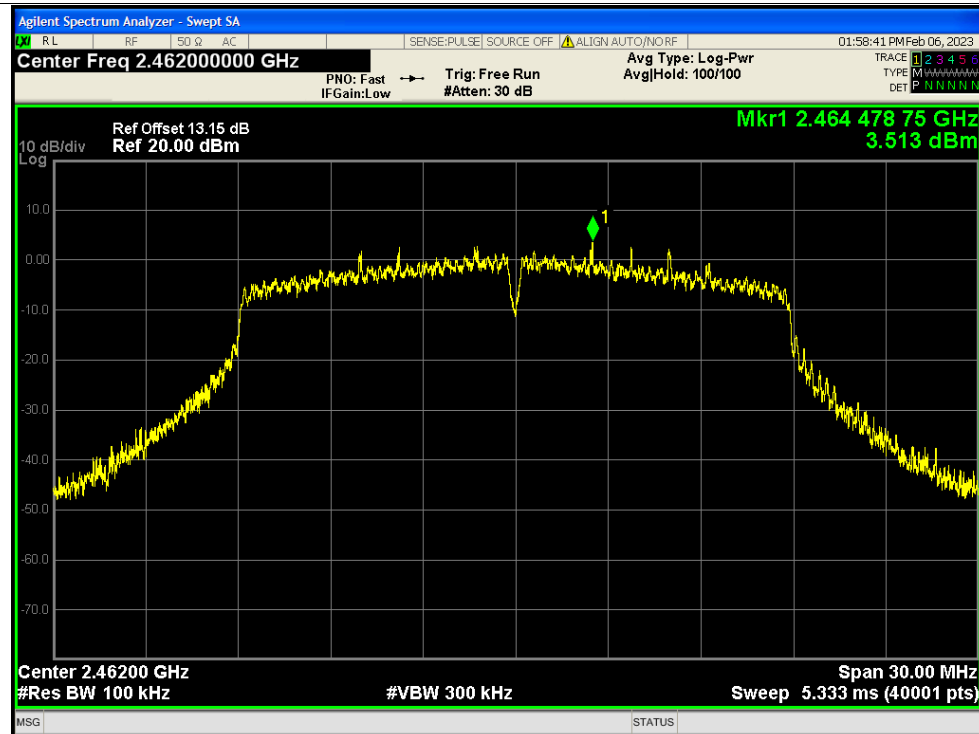


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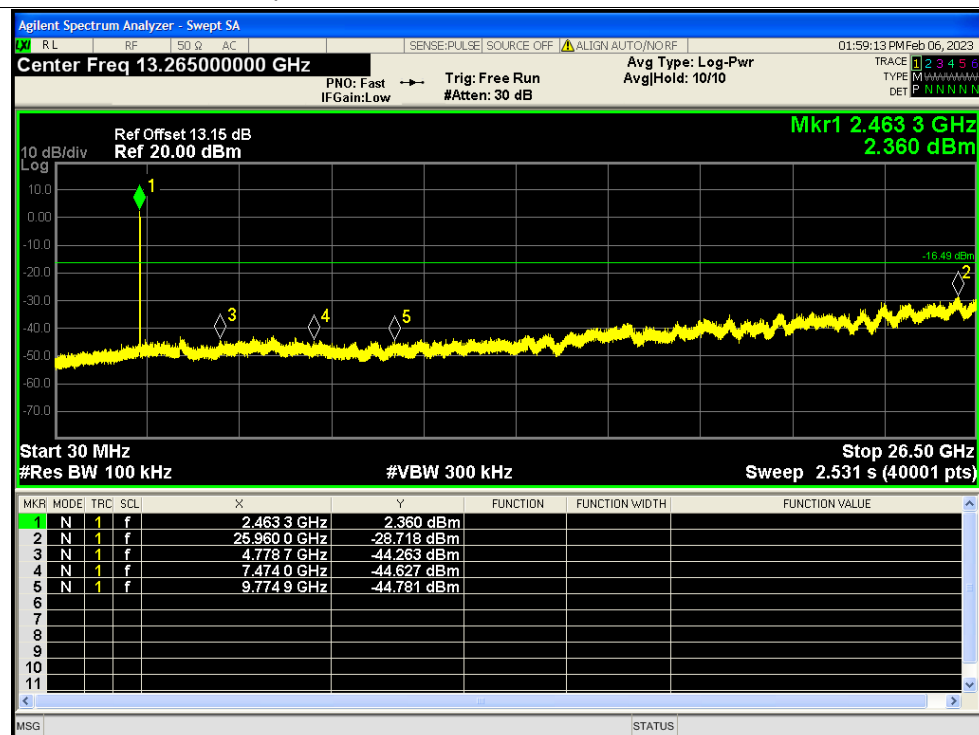




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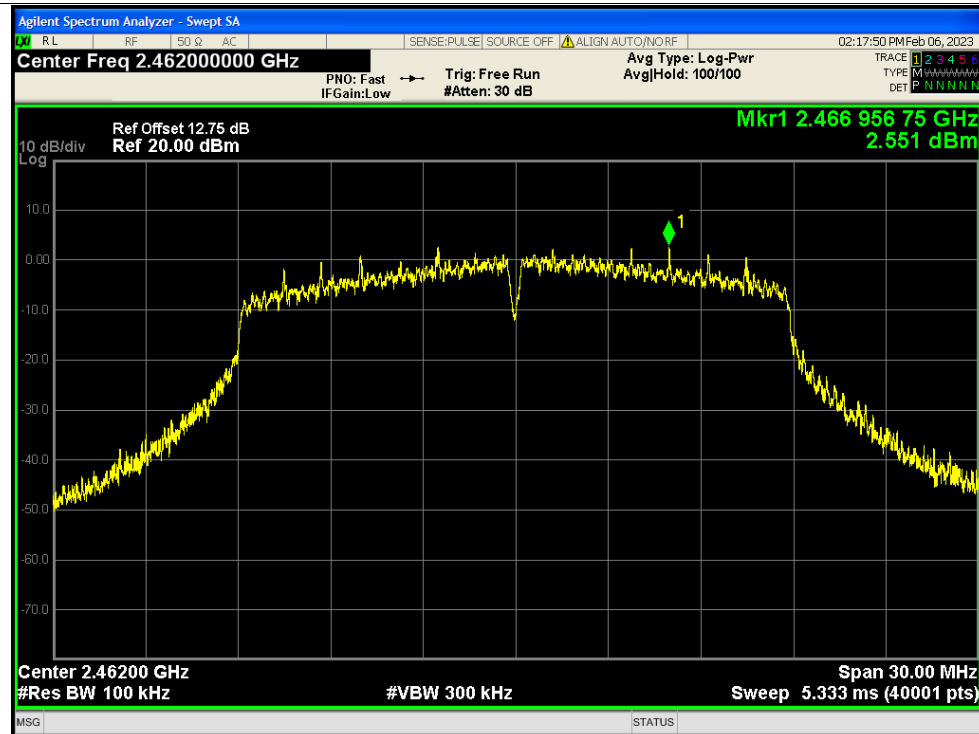


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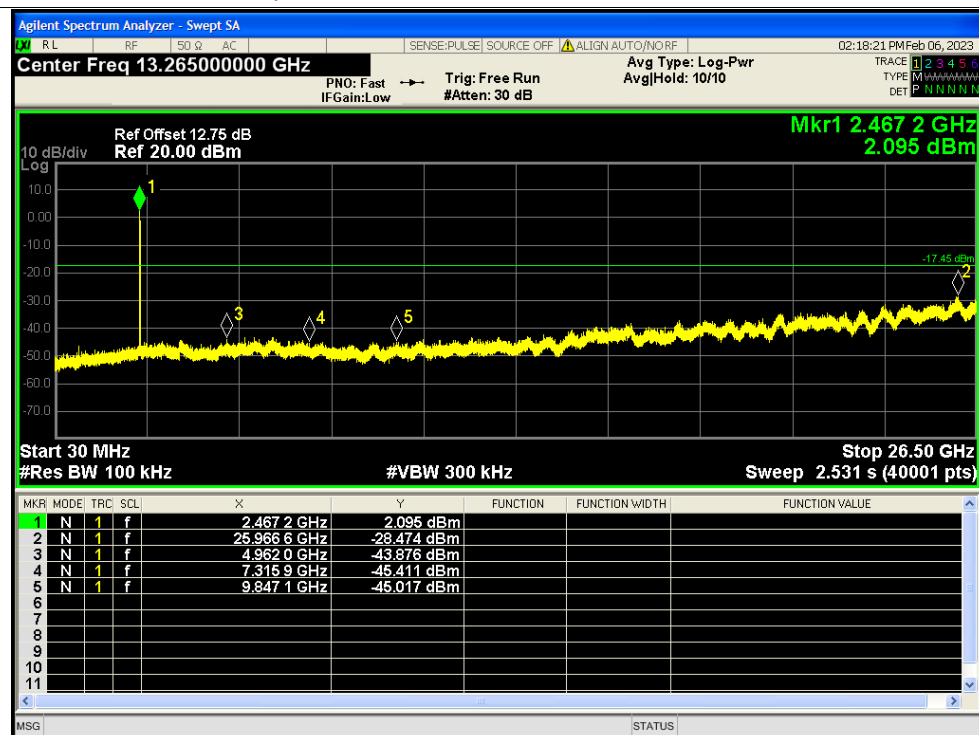




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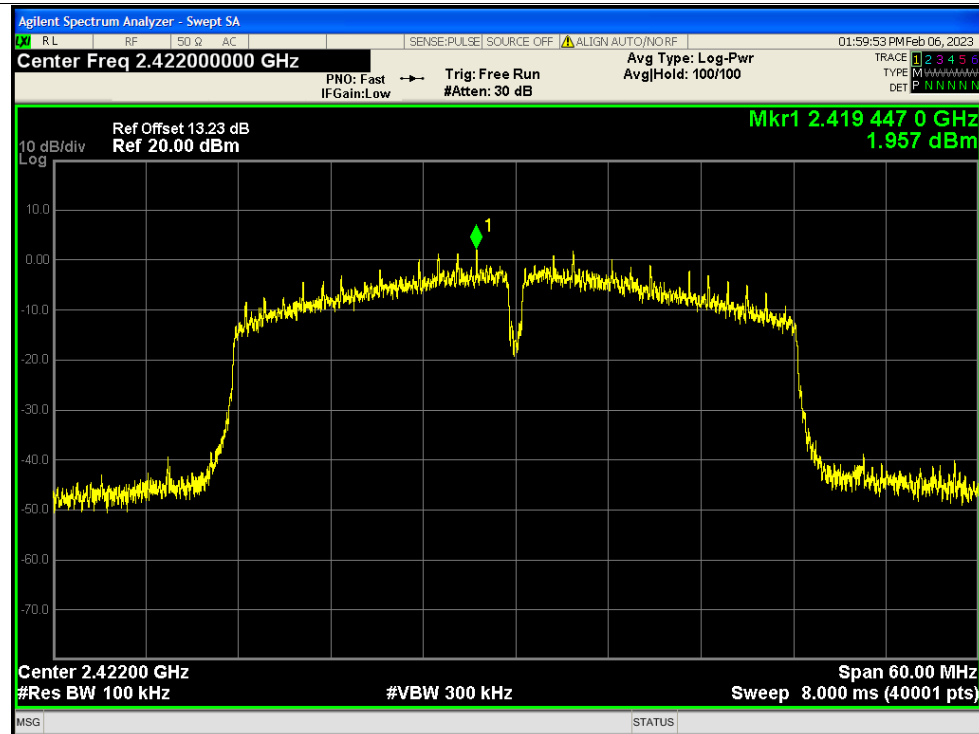


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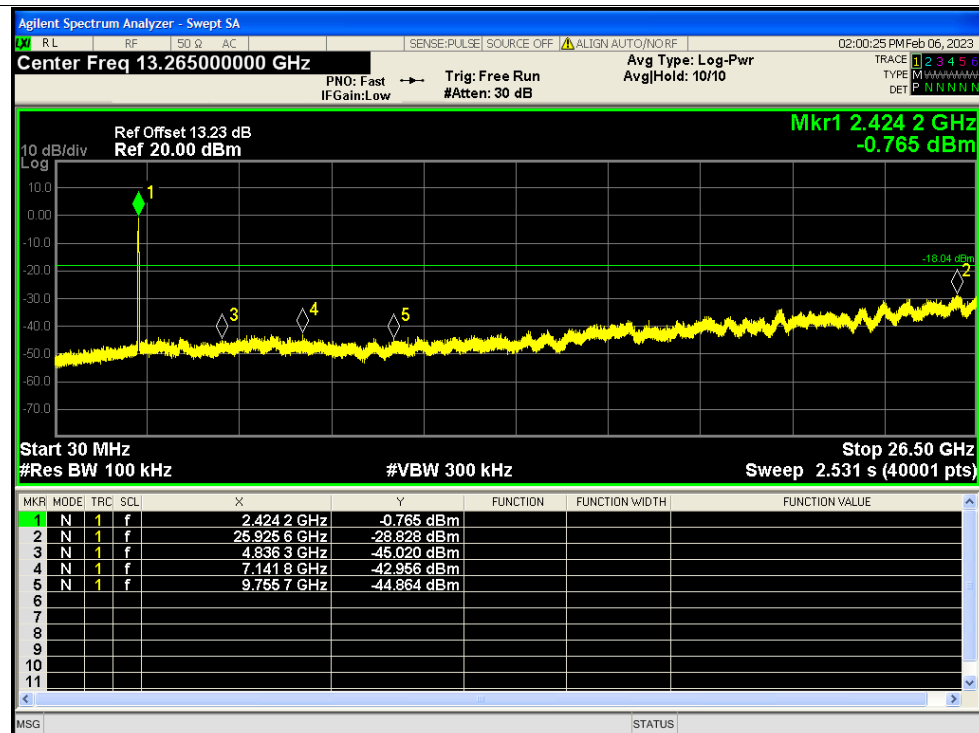




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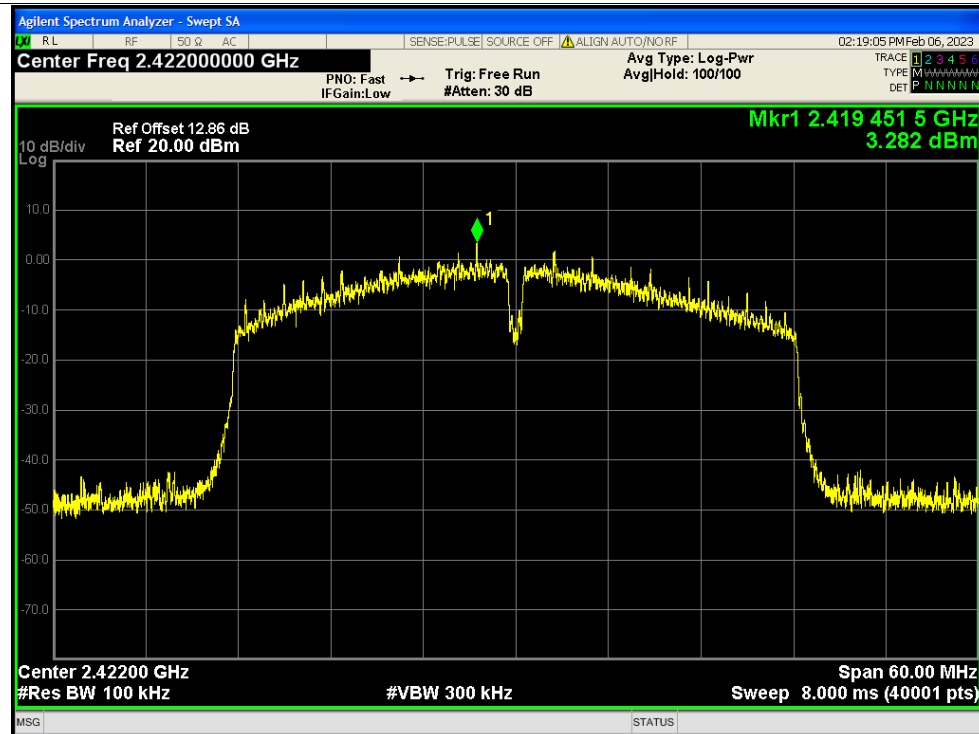


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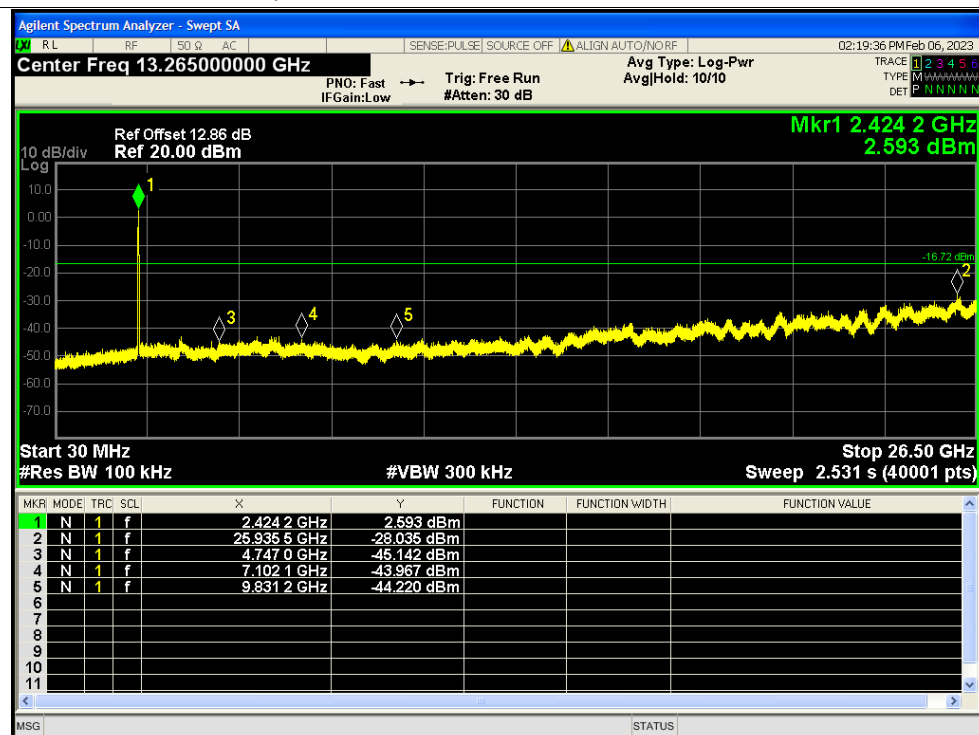




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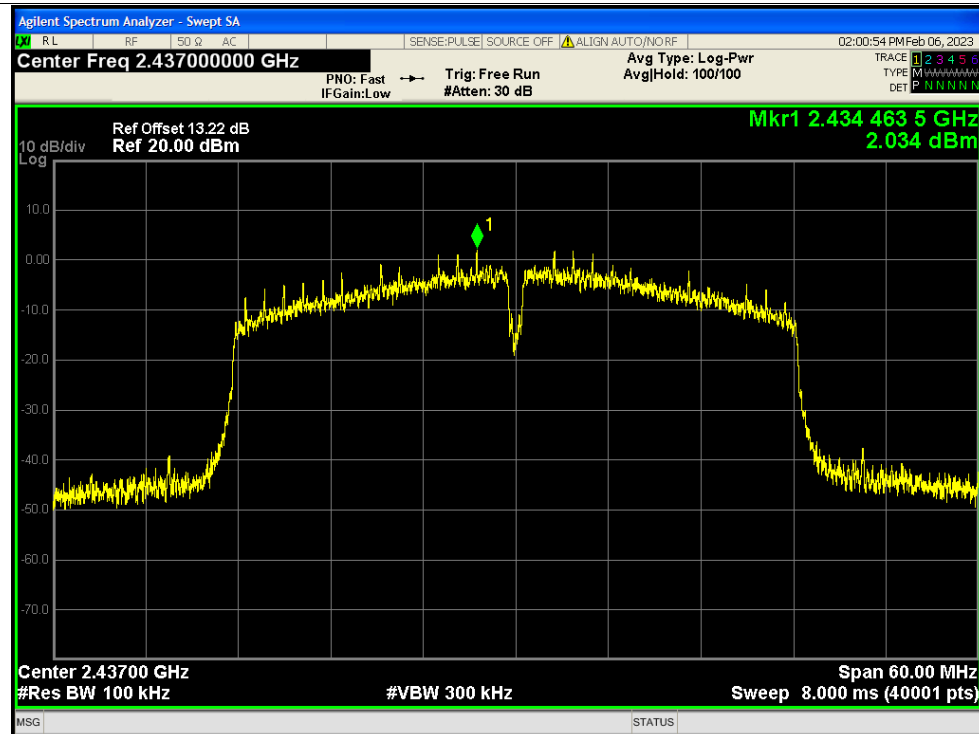


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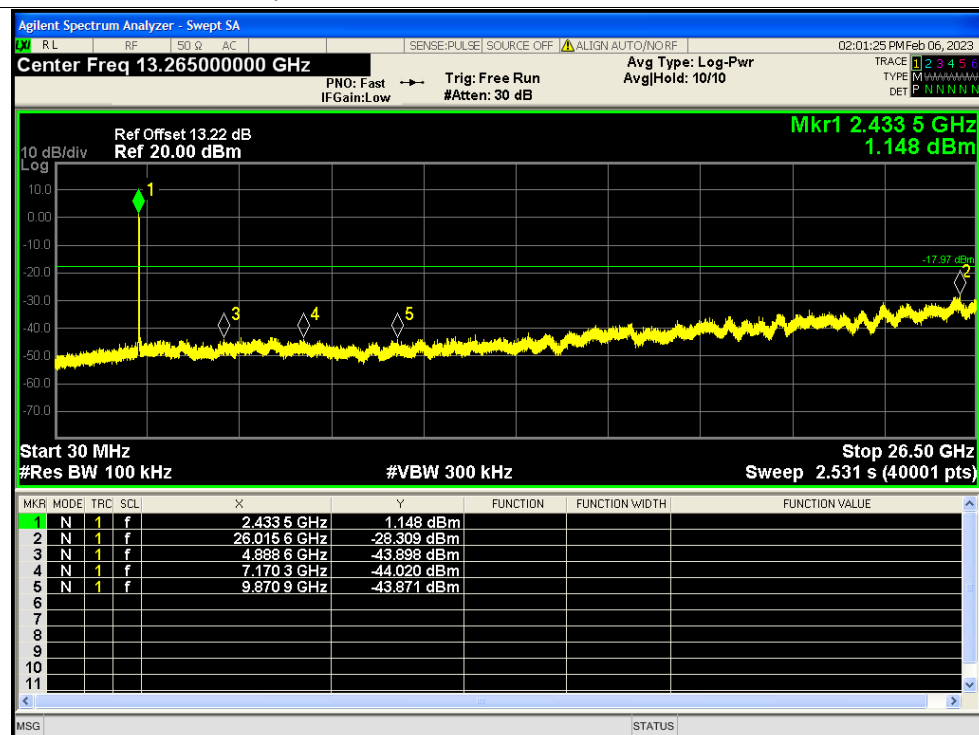




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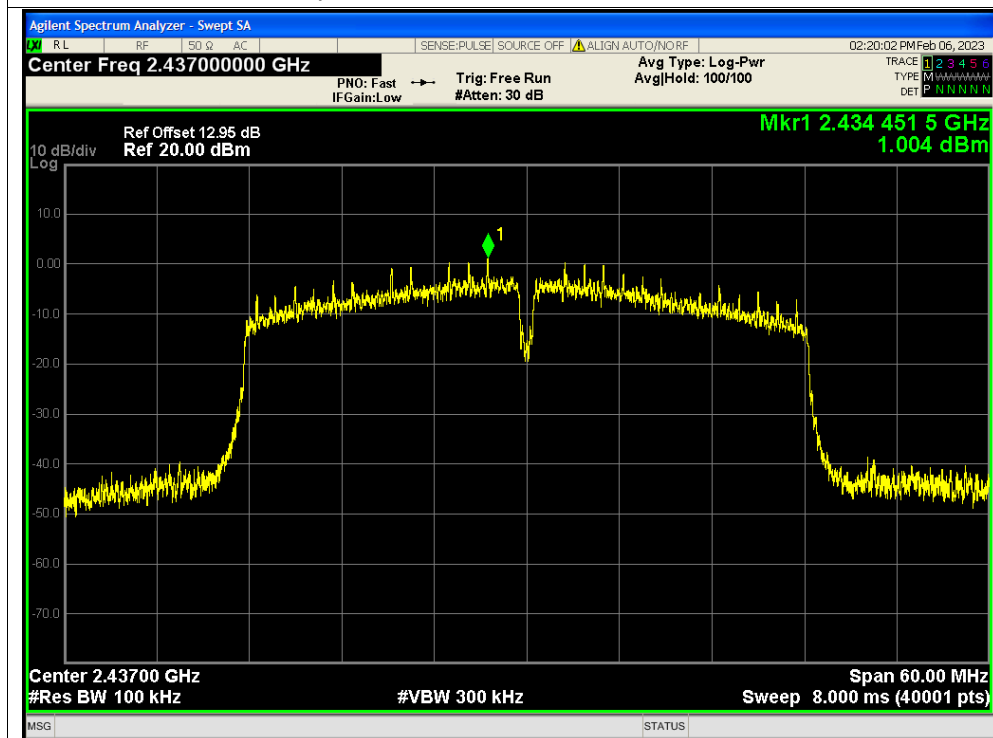


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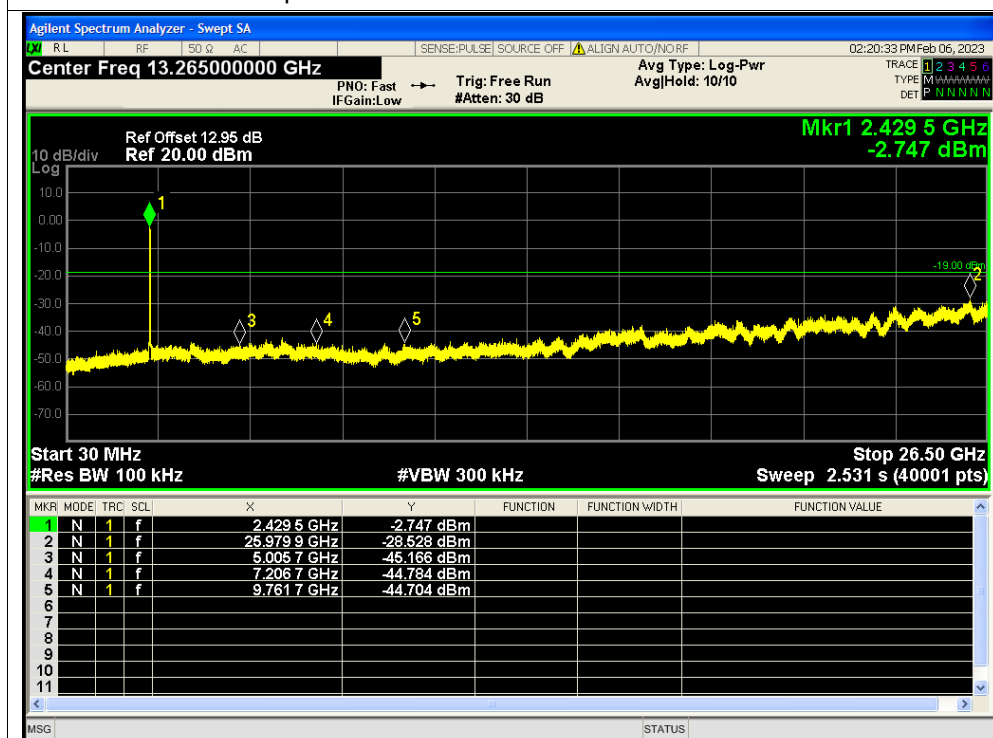




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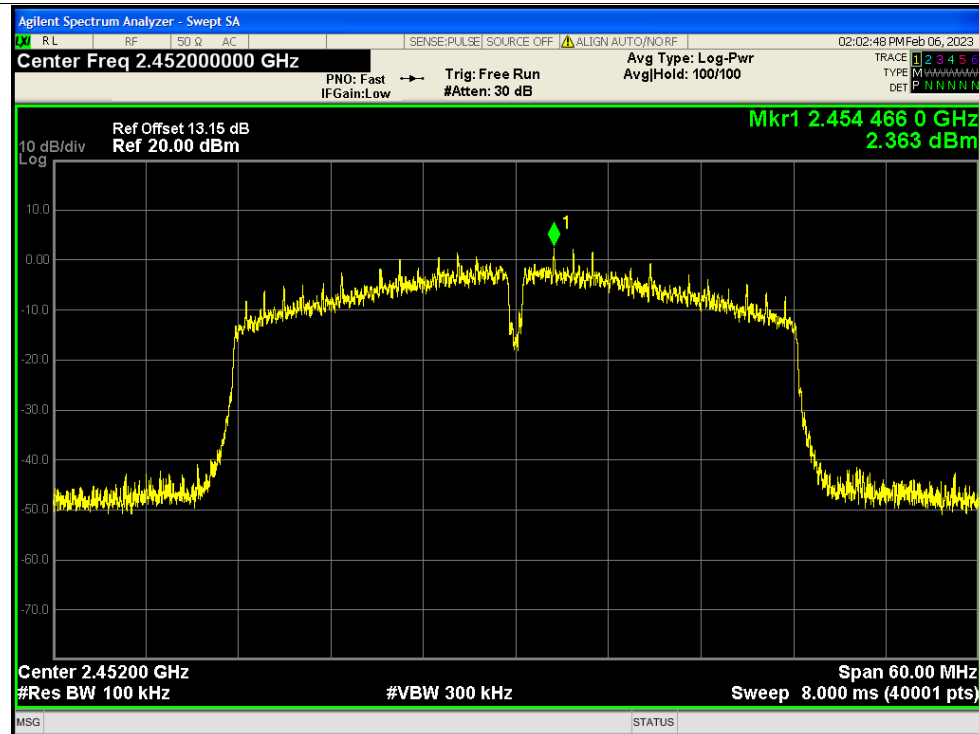


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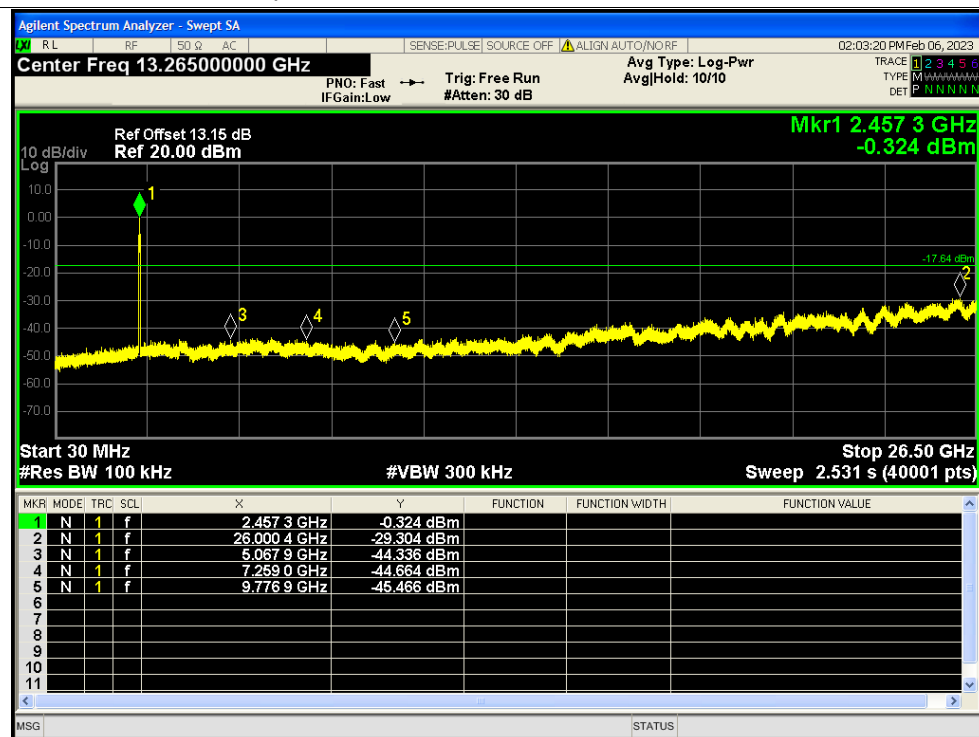




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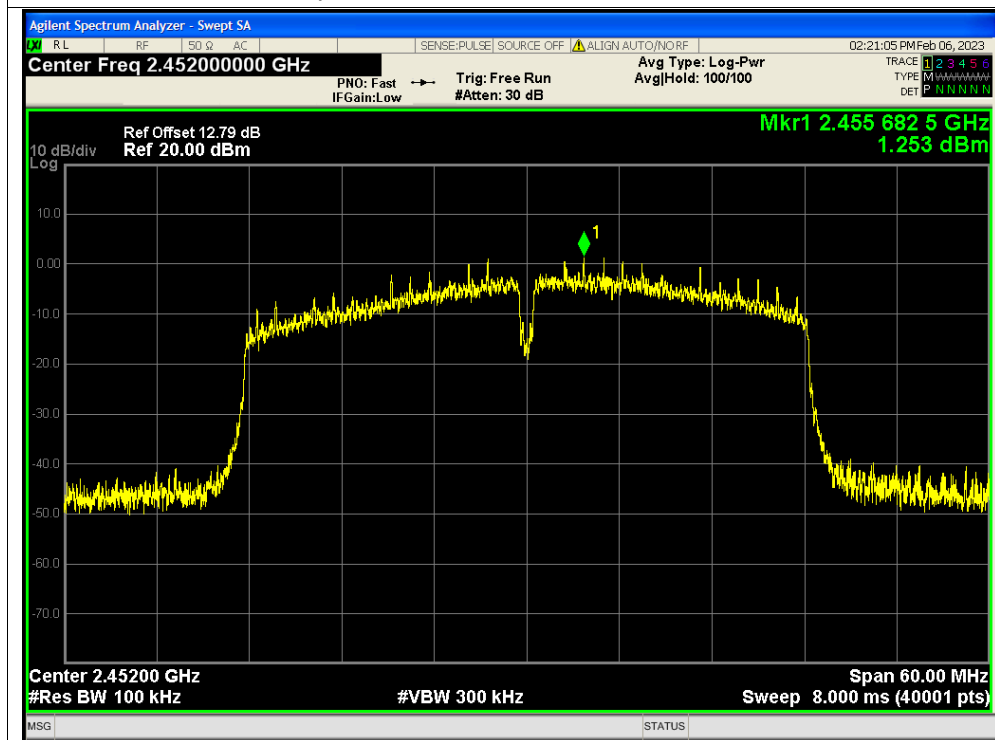


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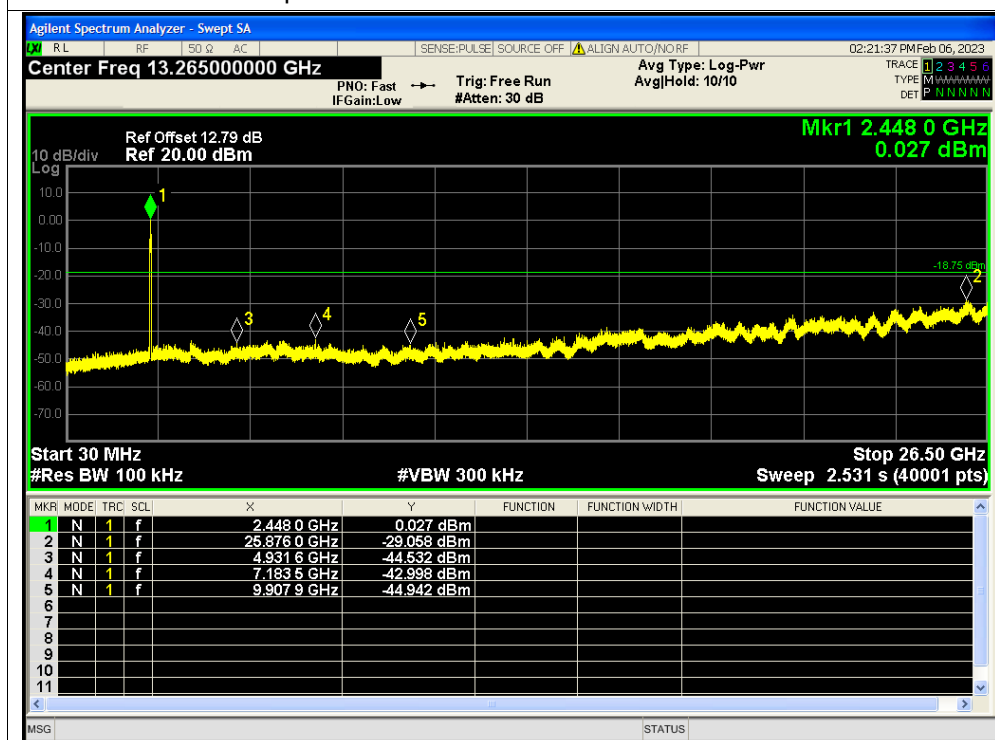




Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



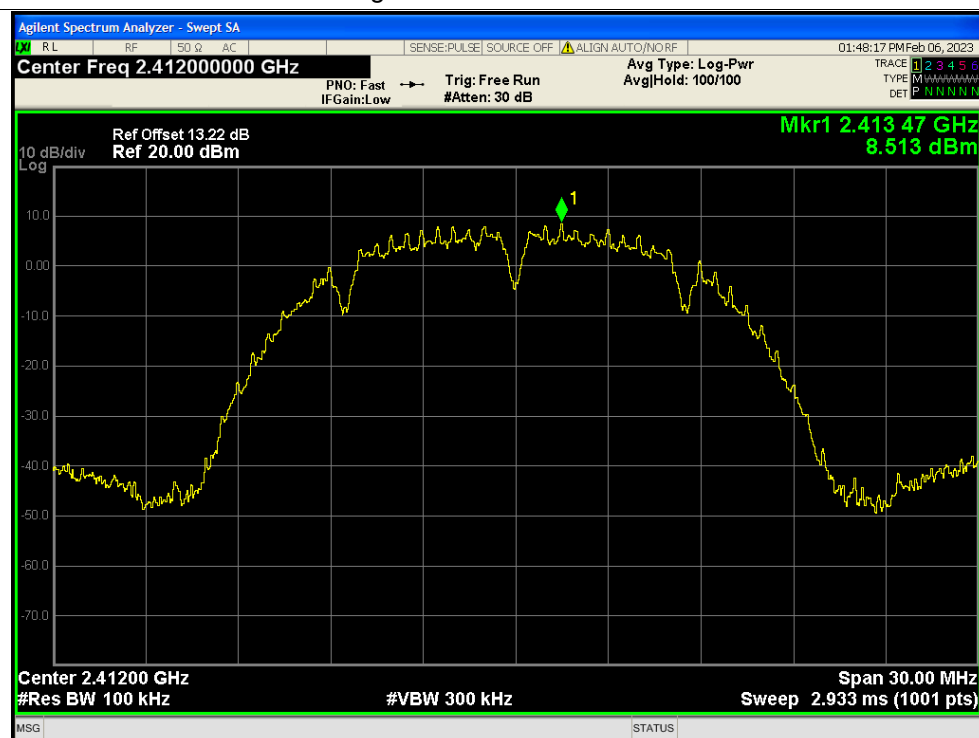
**A.6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.42	-20	Pass
NVNT	b	2412	Ant2	-50.7	-20	Pass
NVNT	b	2462	Ant1	-53.86	-20	Pass
NVNT	b	2462	Ant2	-54.41	-20	Pass
NVNT	g	2412	Ant1	-38.37	-20	Pass
NVNT	g	2412	Ant2	-41.98	-20	Pass
NVNT	g	2462	Ant1	-49.55	-20	Pass
NVNT	g	2462	Ant2	-48.63	-20	Pass
NVNT	n20	2412	Ant1	-38.96	-20	Pass
NVNT	n20	2412	Ant2	-39.43	-20	Pass
NVNT	n20	2462	Ant1	-47.31	-20	Pass
NVNT	n20	2462	Ant2	-50.02	-20	Pass
NVNT	n40	2422	Ant1	-42.92	-20	Pass
NVNT	n40	2422	Ant2	-44.1	-20	Pass
NVNT	n40	2452	Ant1	-47.62	-20	Pass
NVNT	n40	2452	Ant2	-44.67	-20	Pass

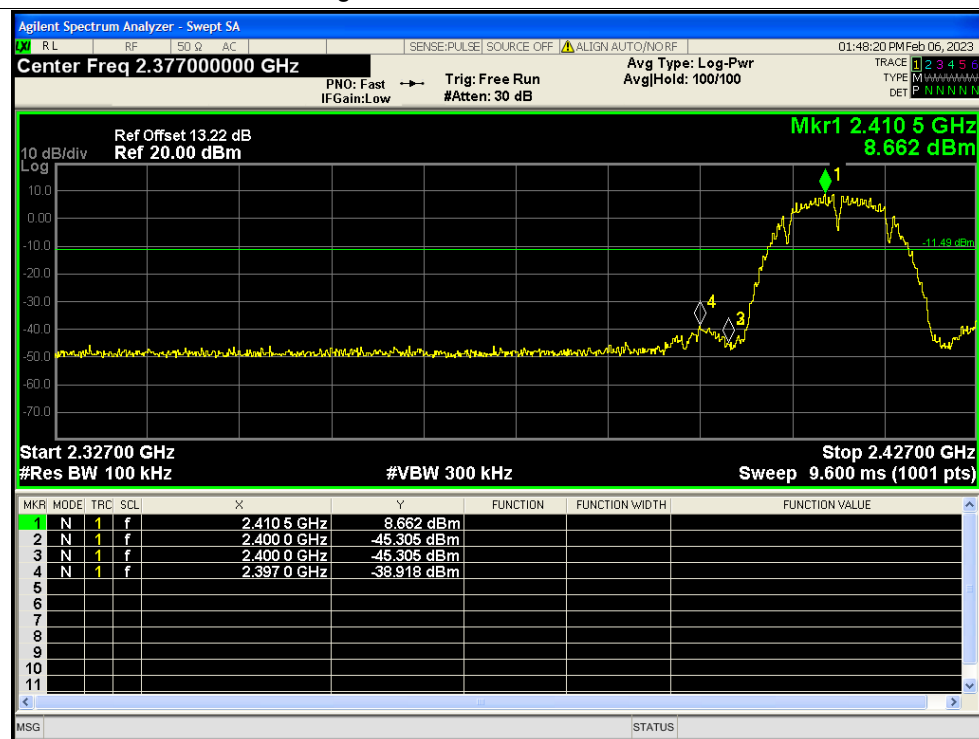


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

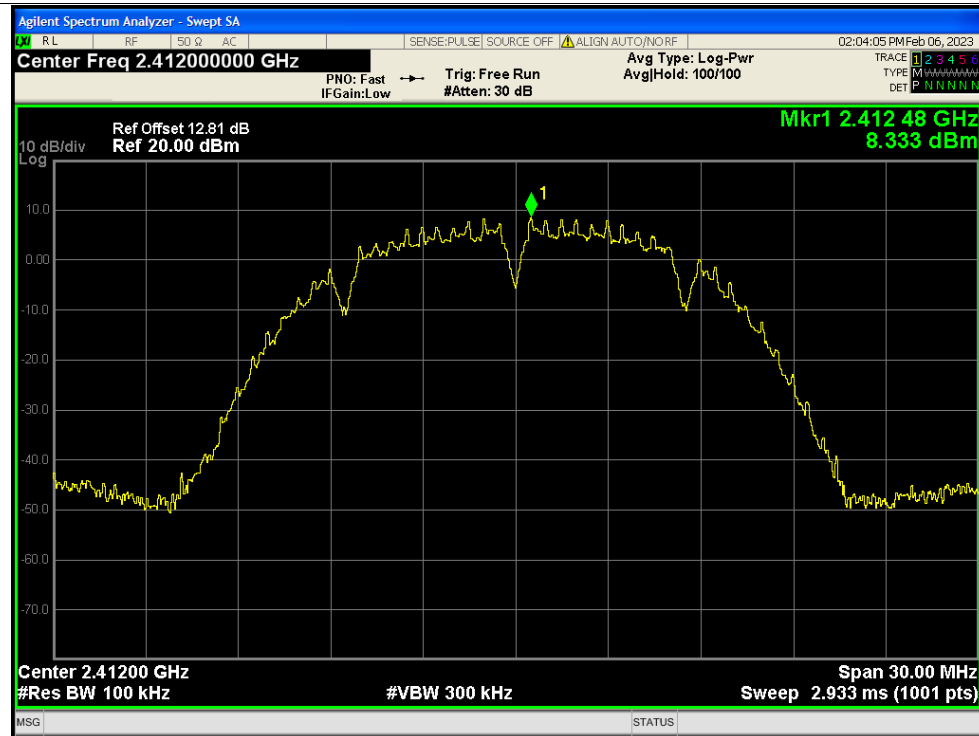


Band Edge NVNT b 2412MHz Ant1 Emission

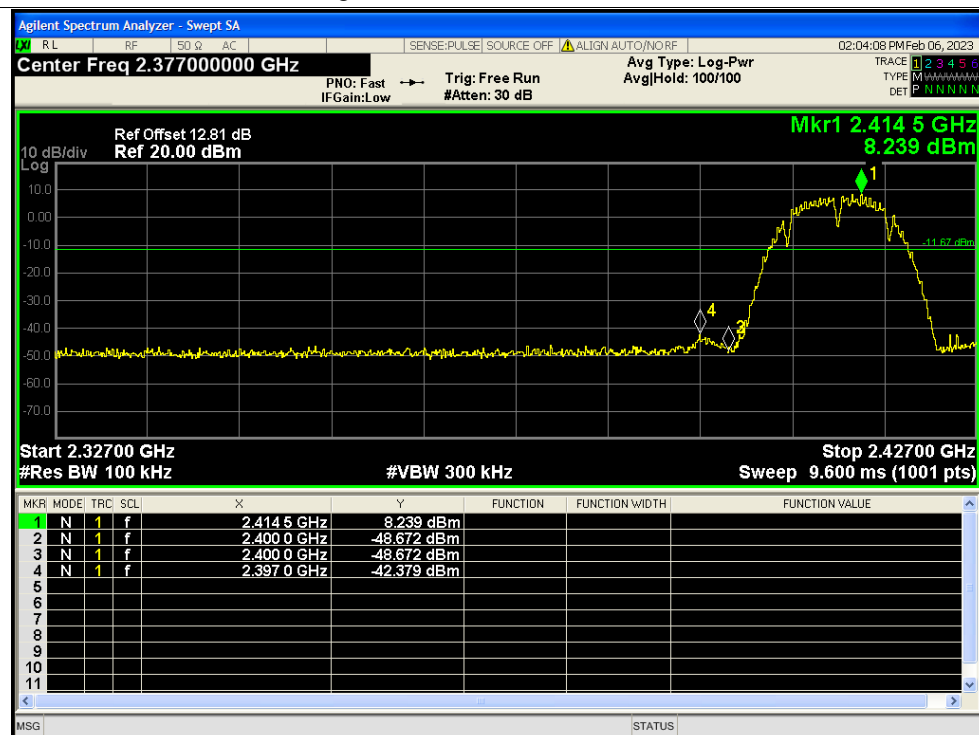




Band Edge NVNT b 2412MHz Ant2 Ref

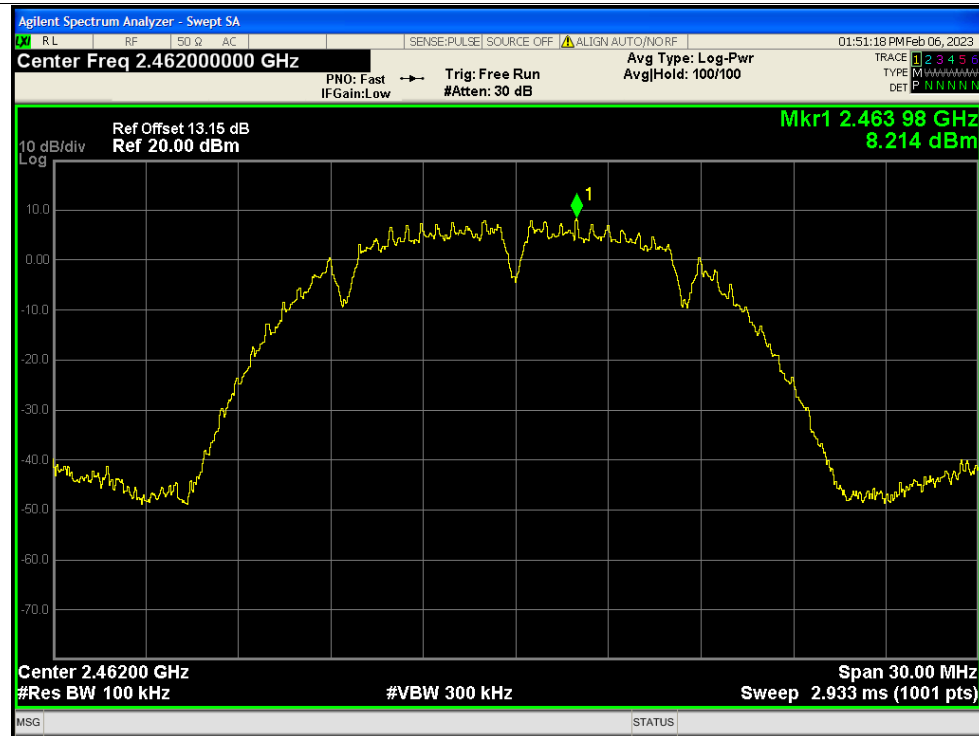


Band Edge NVNT b 2412MHz Ant2 Emission

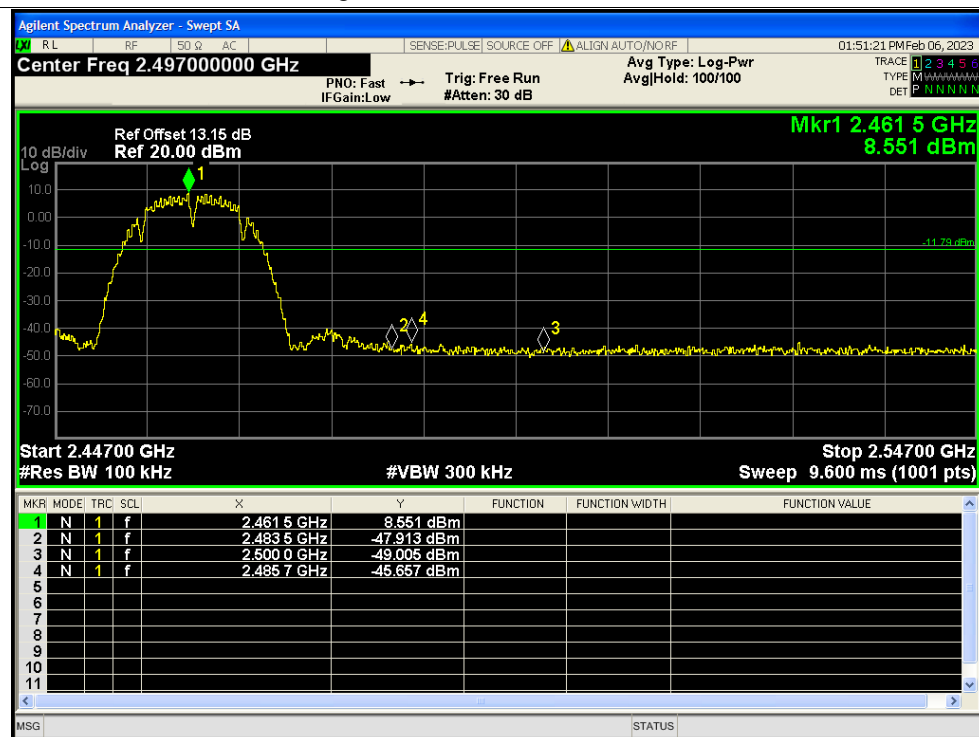




Band Edge NVNT b 2462MHz Ant1 Ref

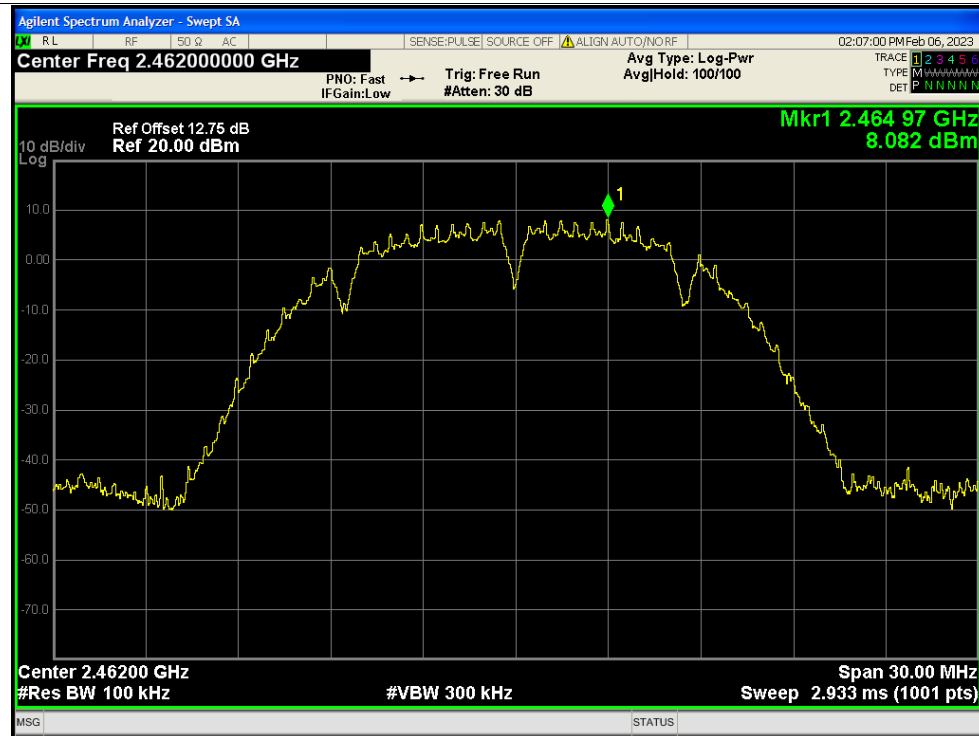


Band Edge NVNT b 2462MHz Ant1 Emission

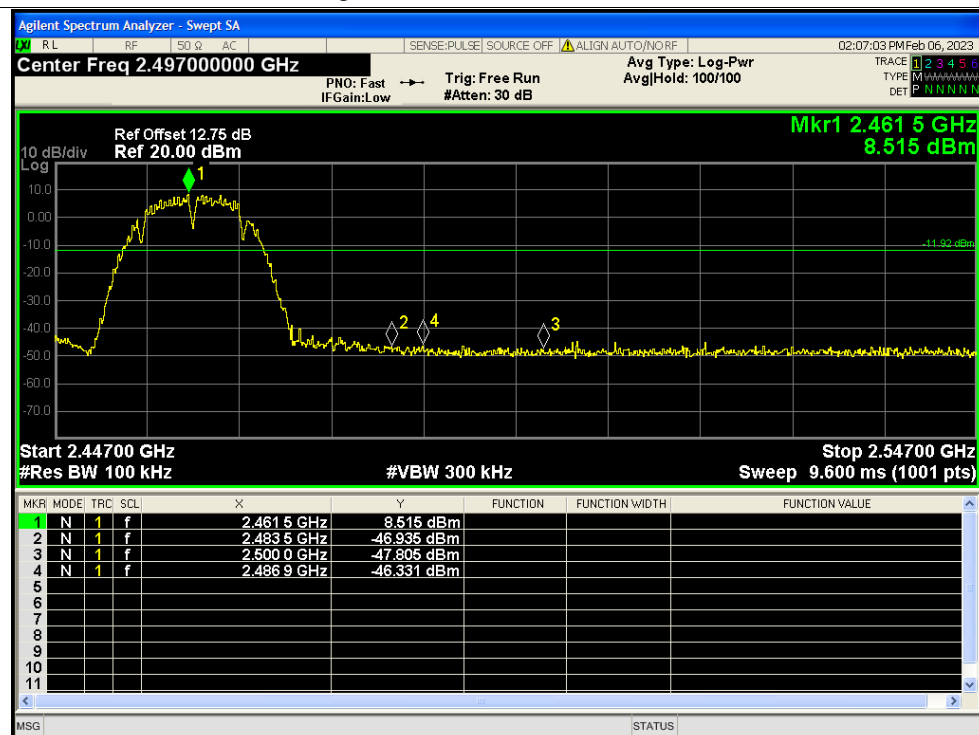




Band Edge NVNT b 2462MHz Ant2 Ref

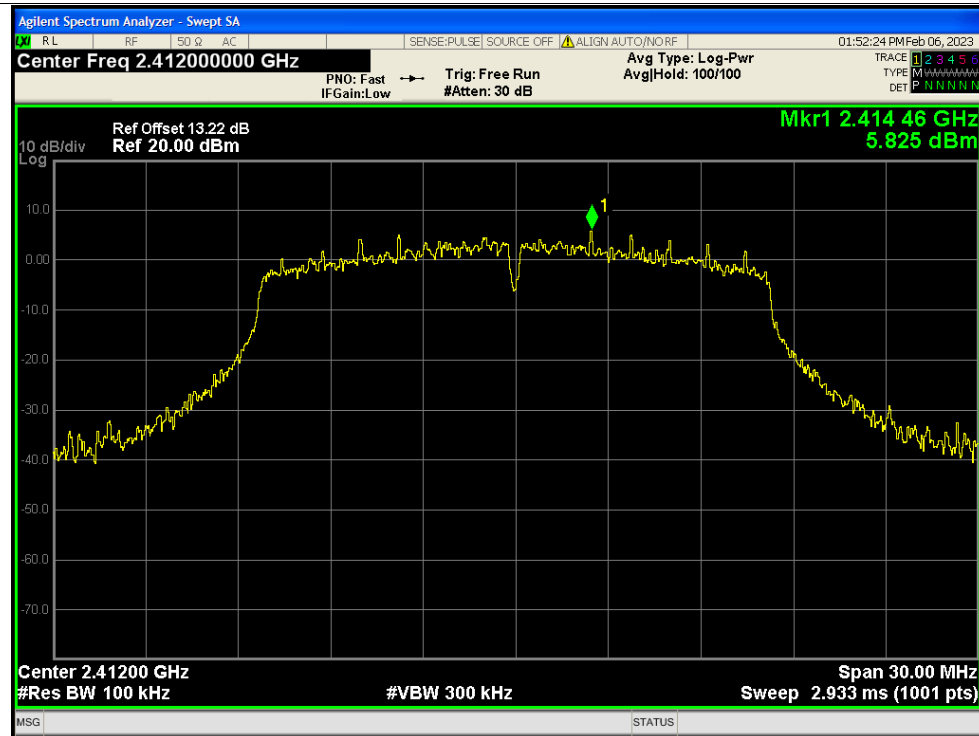


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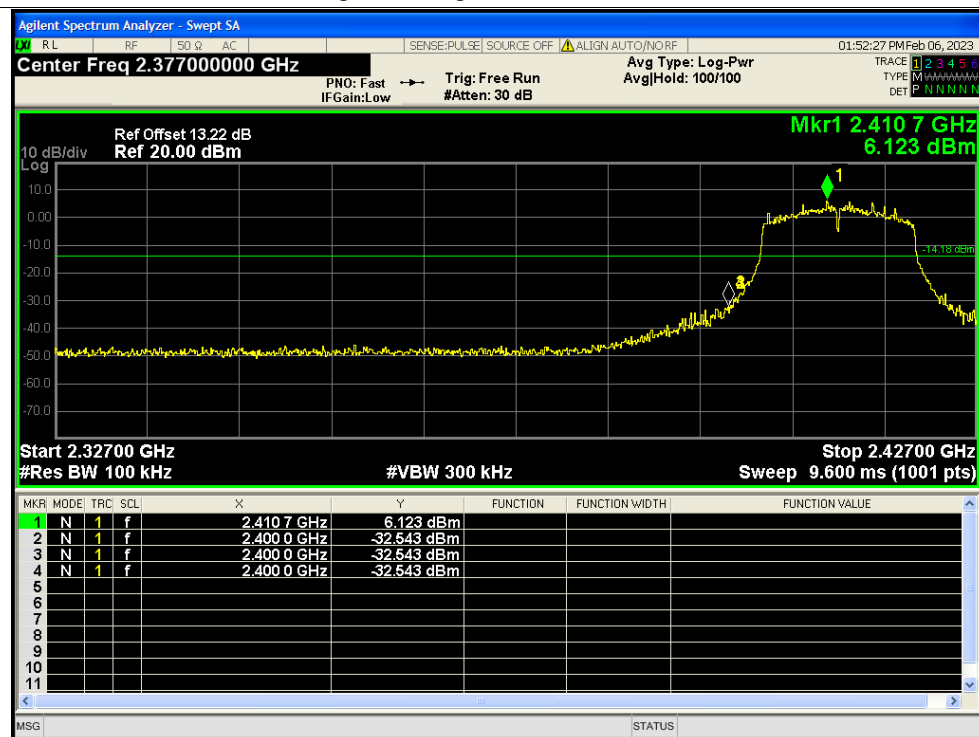




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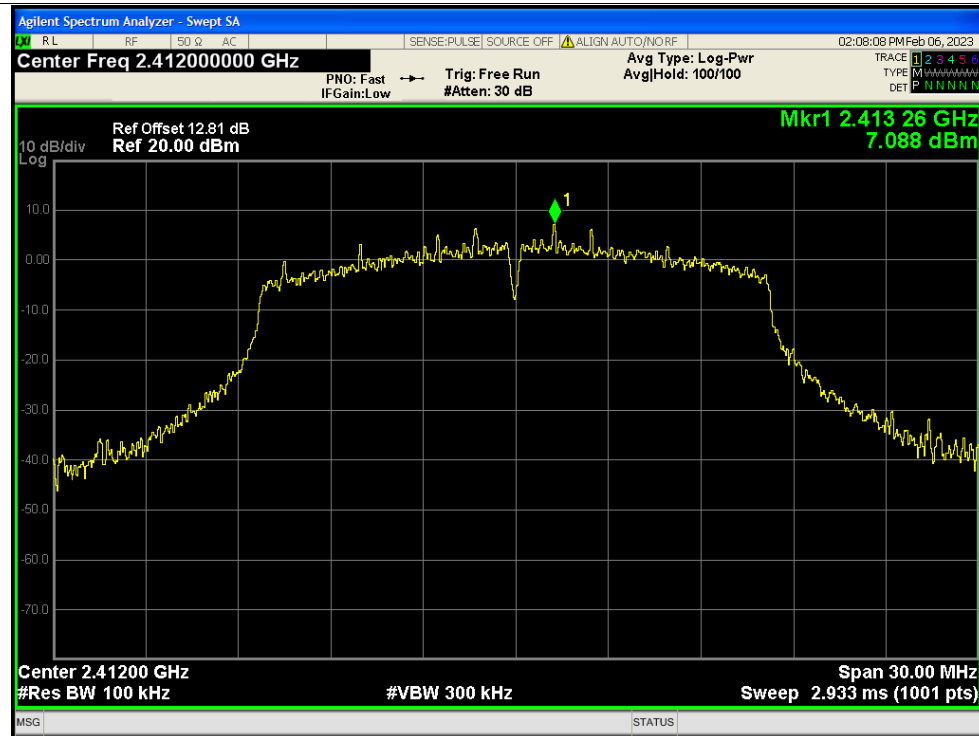


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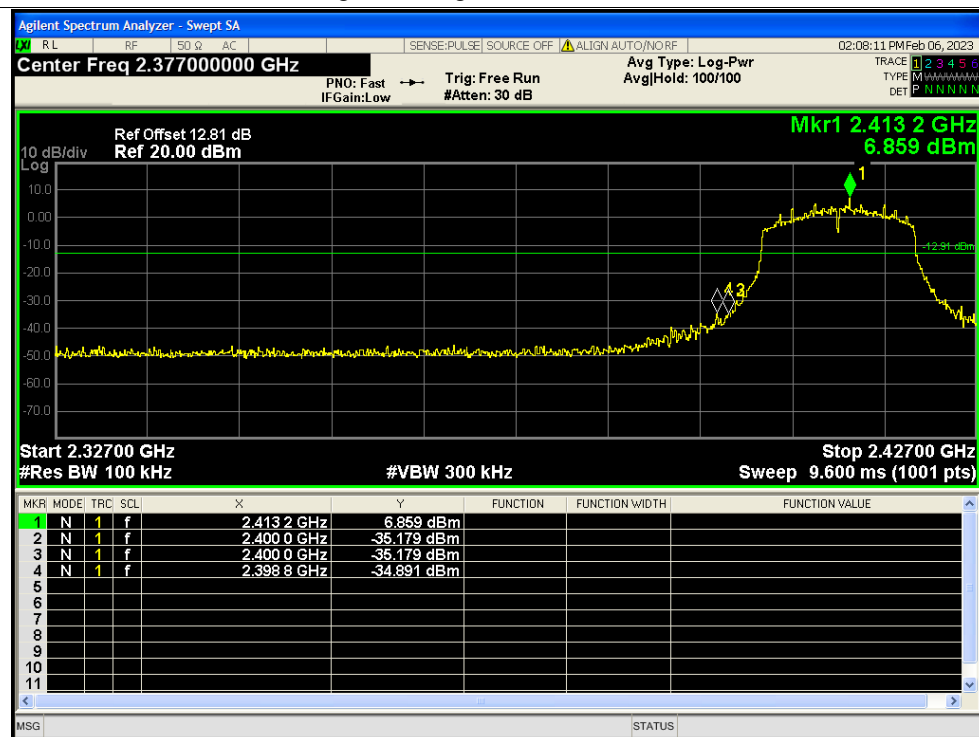




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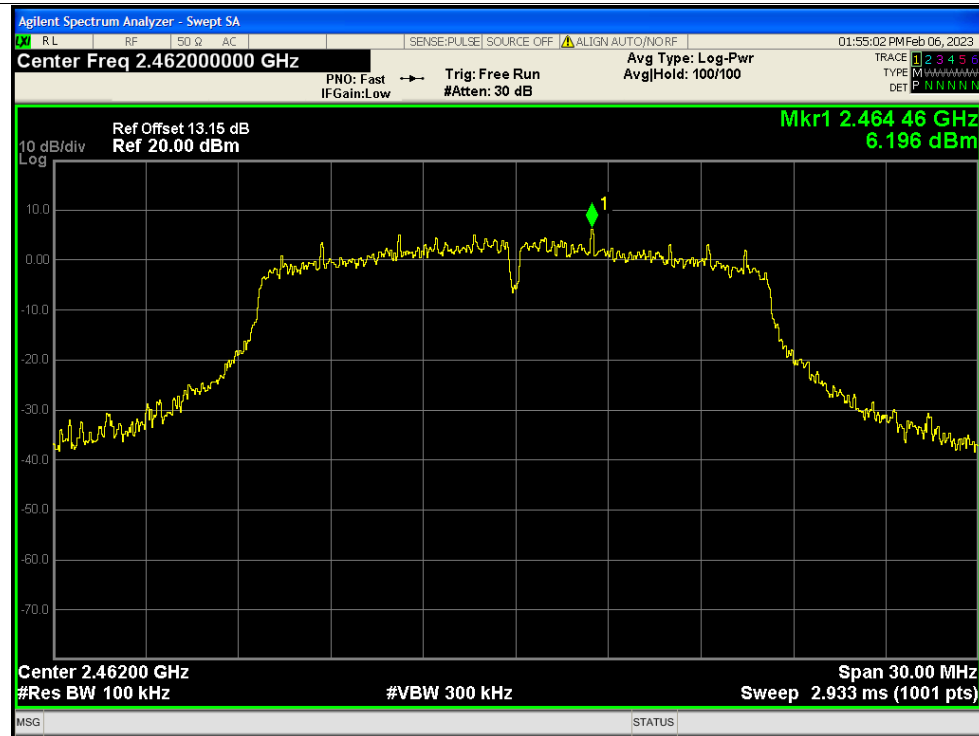


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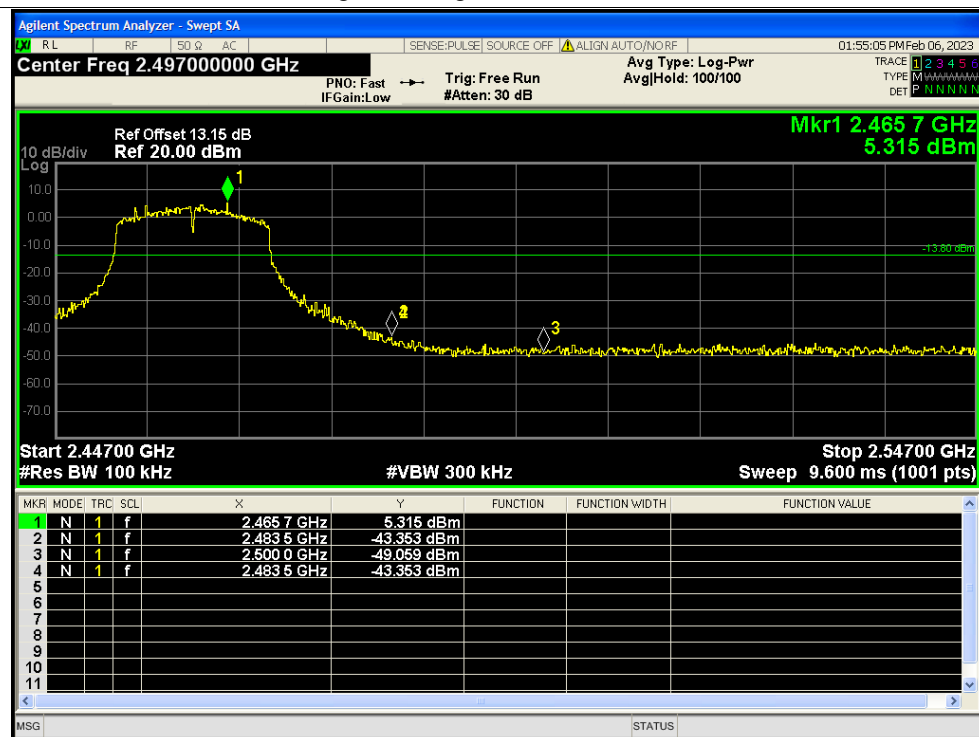




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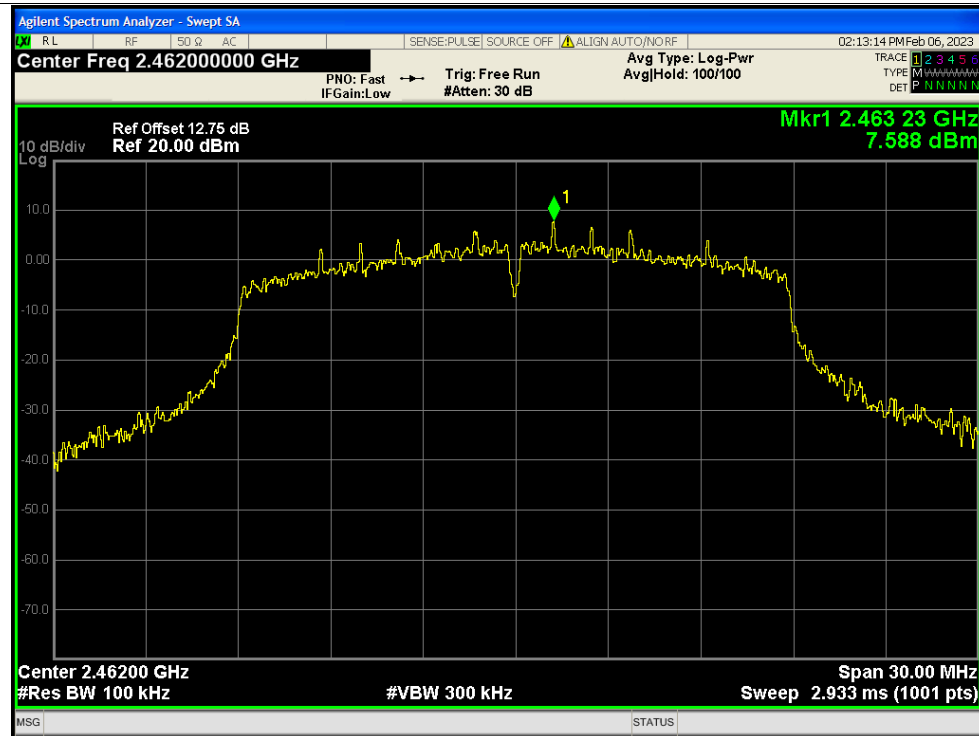


Band Edge NVNT g 2462MHz Ant1 Emission

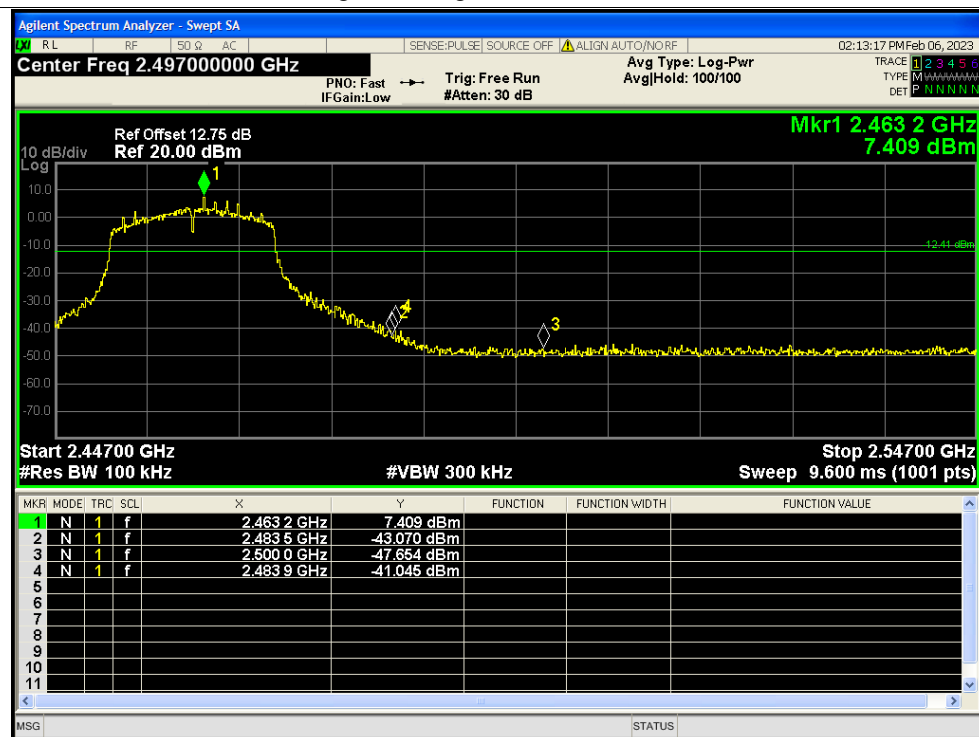




Band Edge NVNT g 2462MHz Ant2 Ref

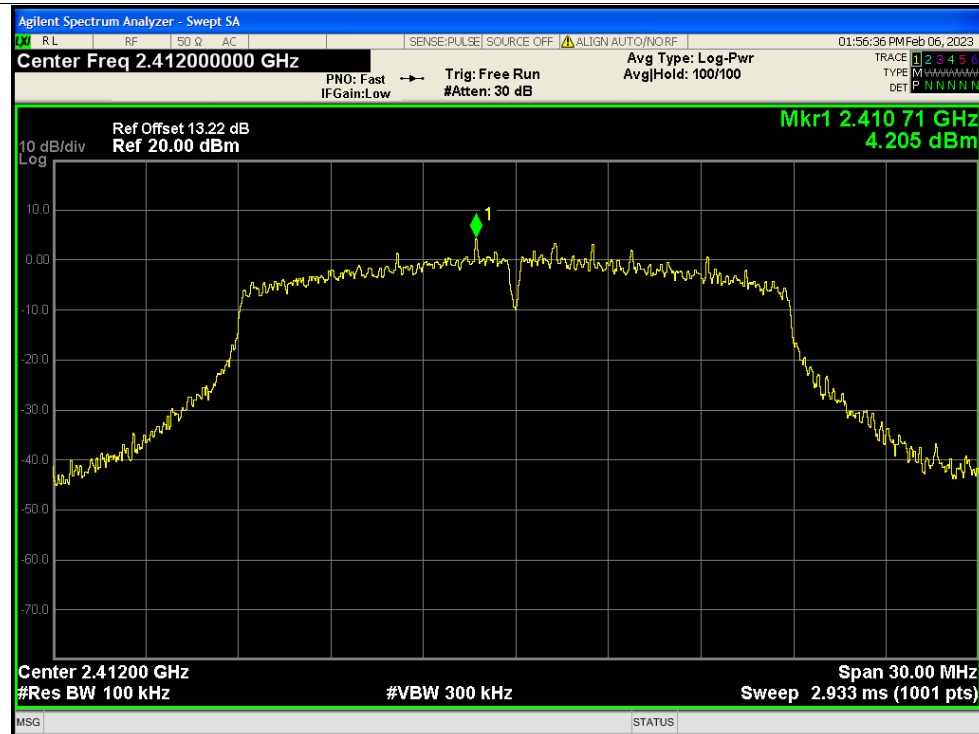


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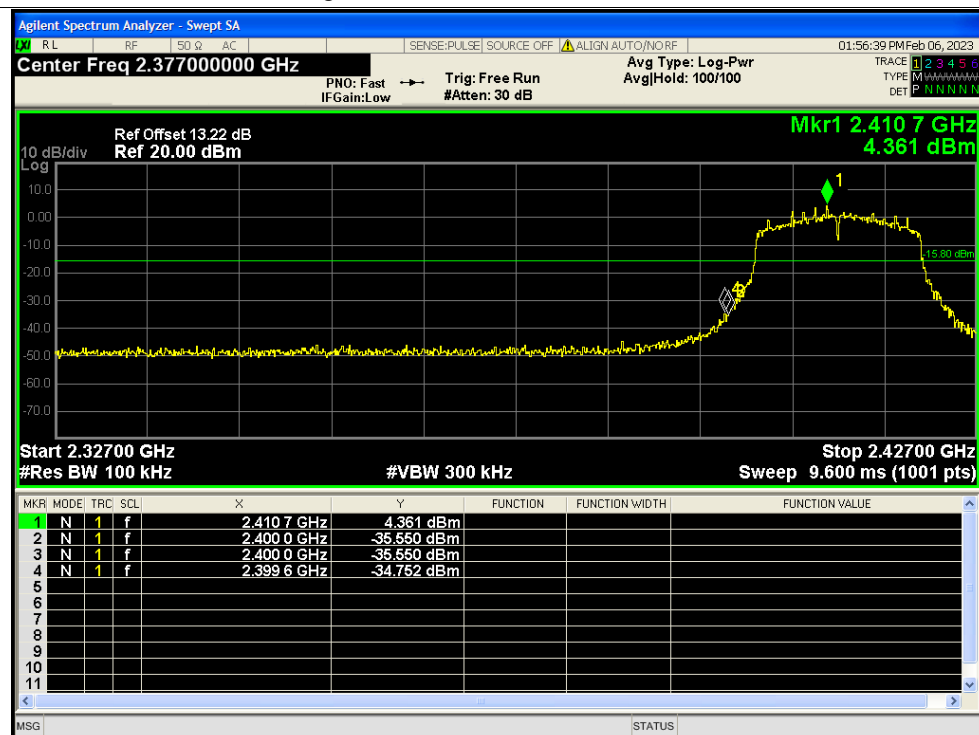




Band Edge NVNT n20 2412MHz Ant1 Ref

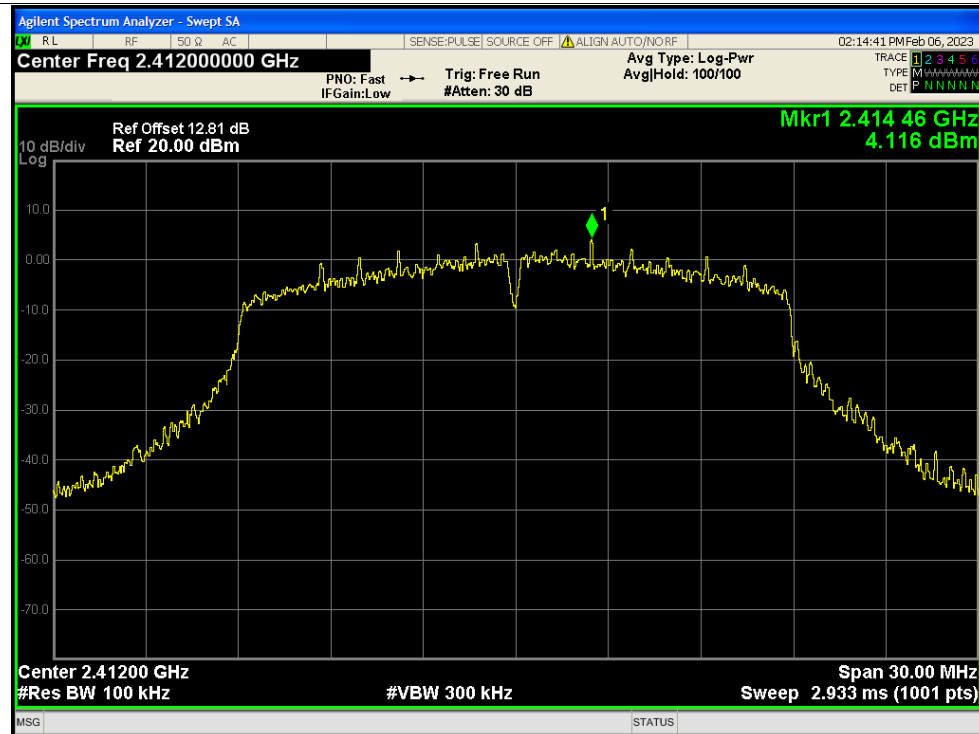


Band Edge NVNT n20 2412MHz Ant1 Emission

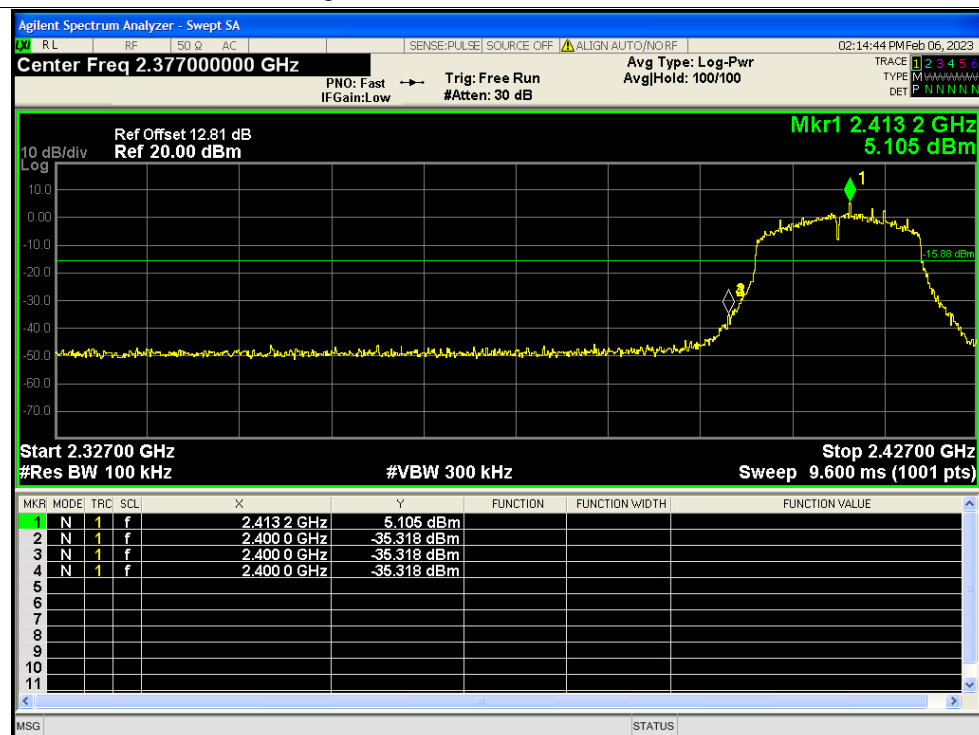




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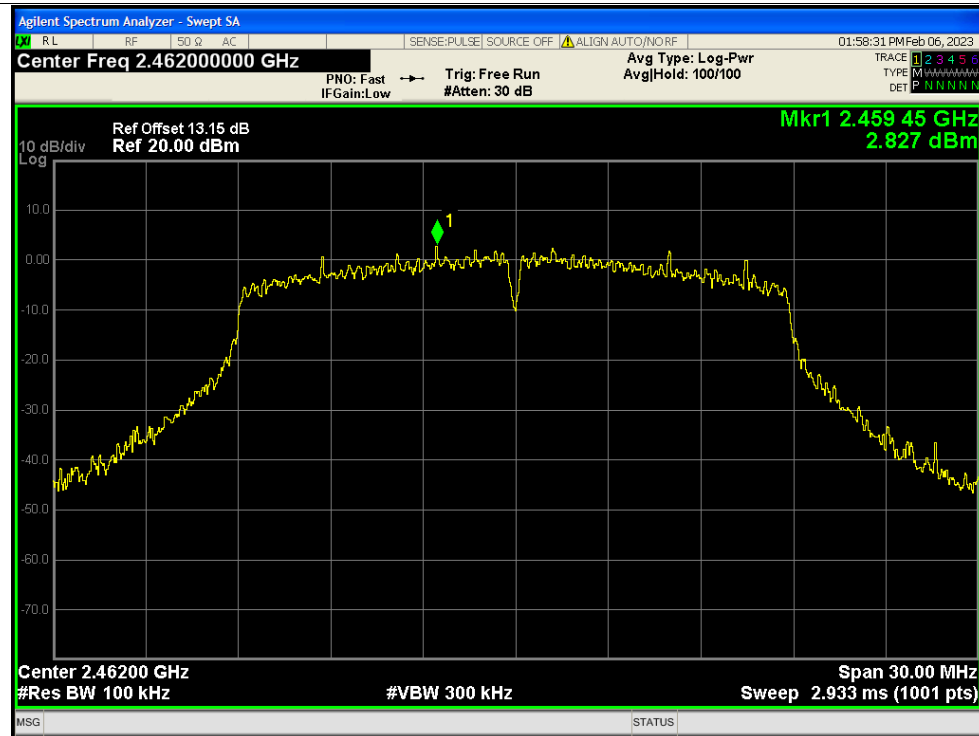


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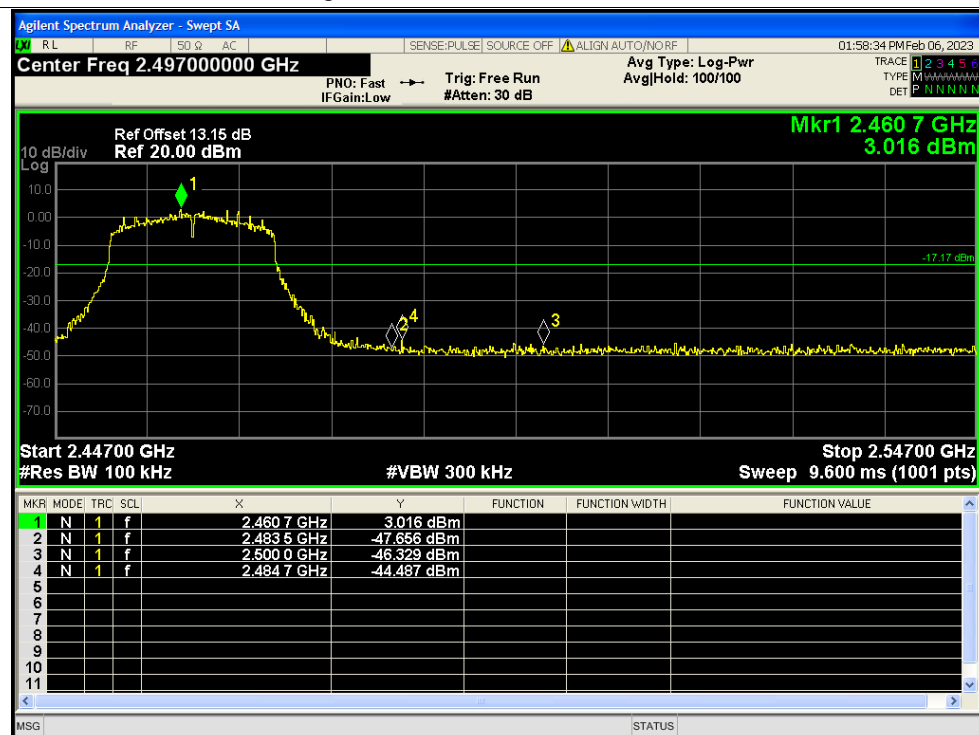




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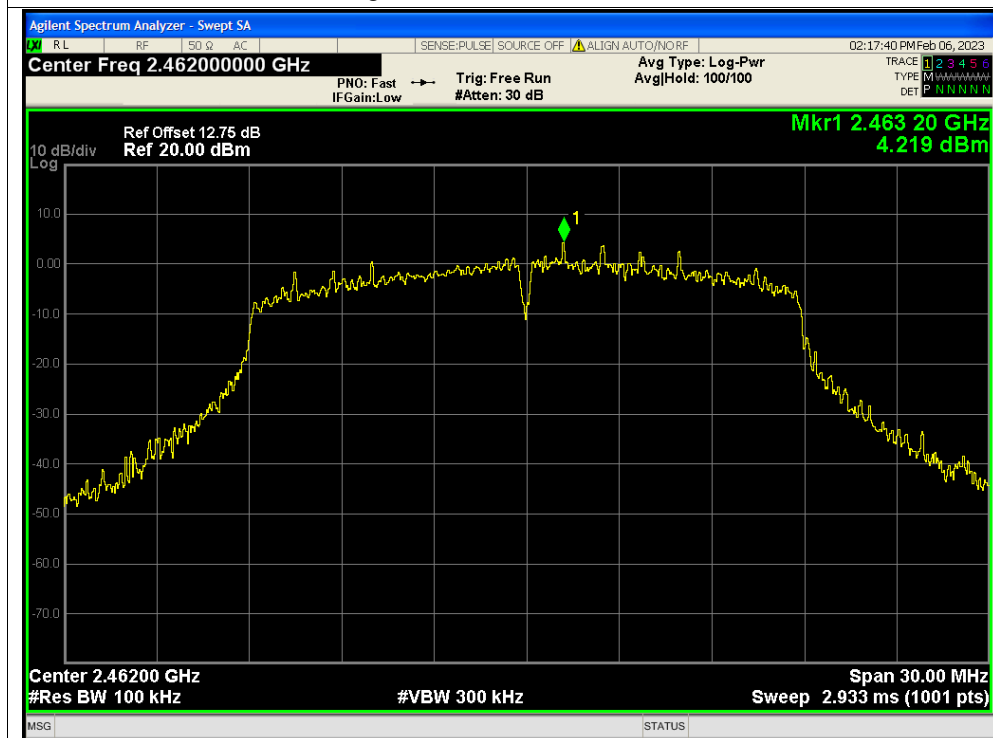


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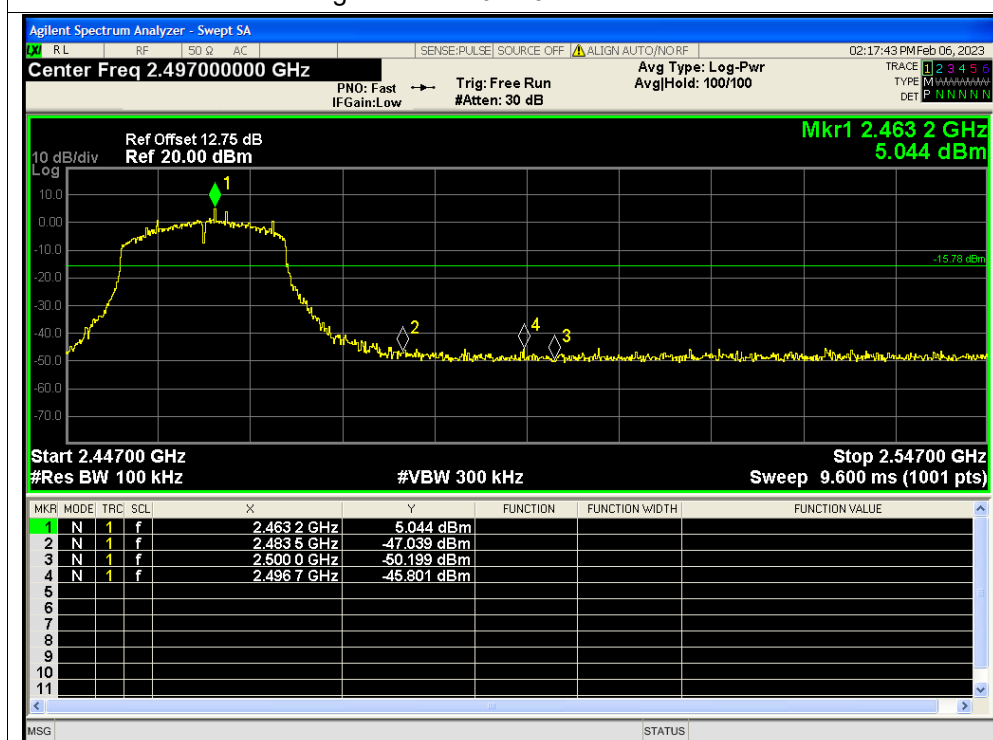




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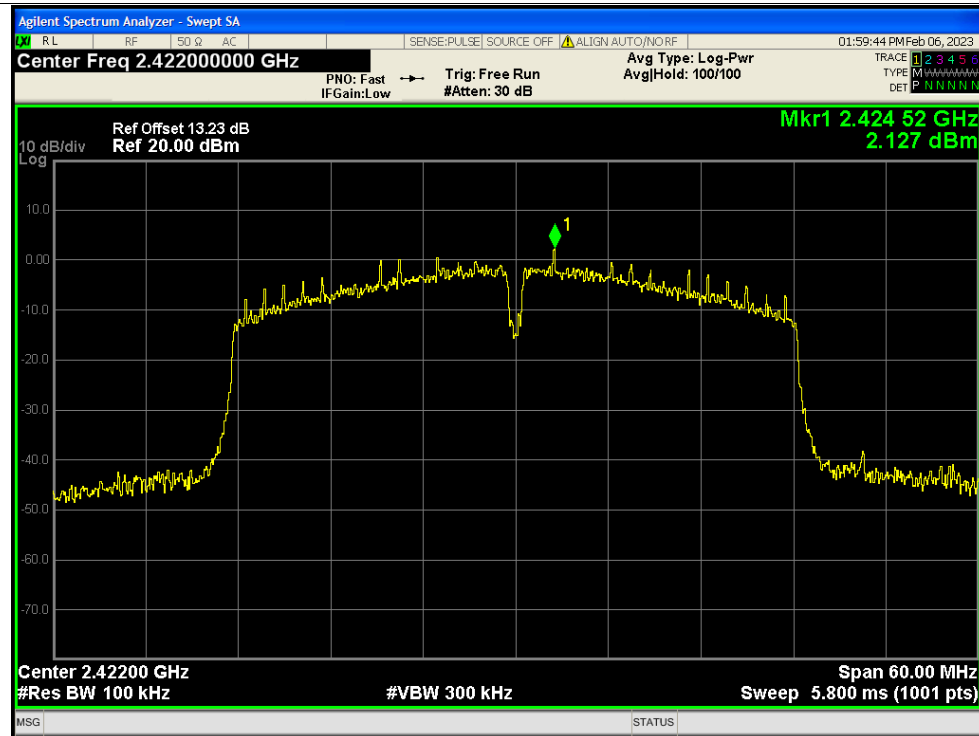


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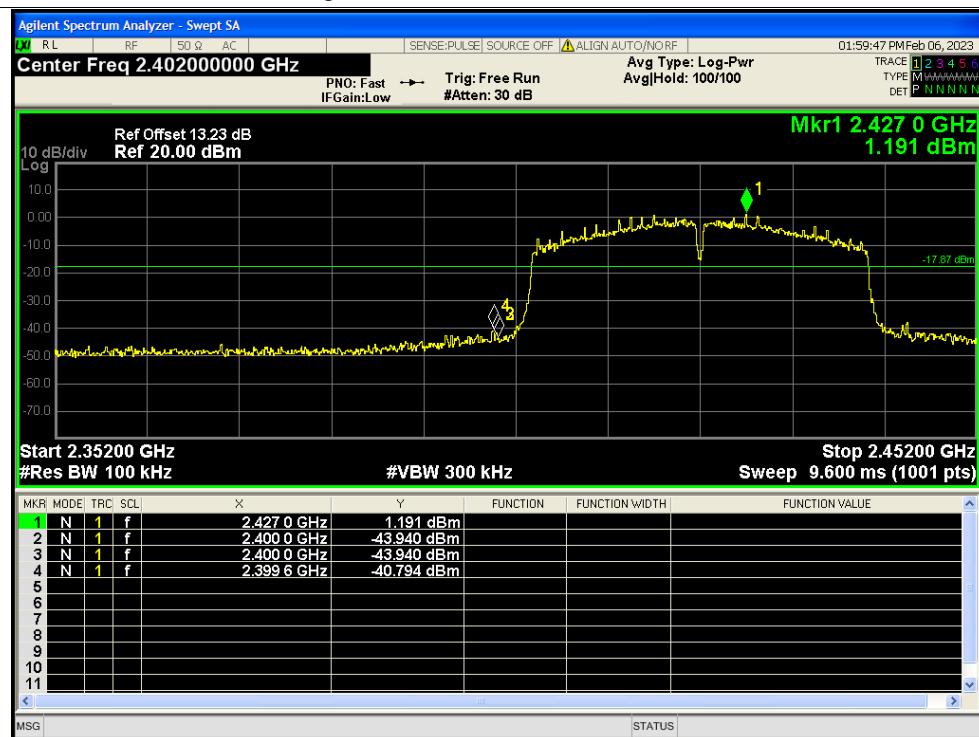




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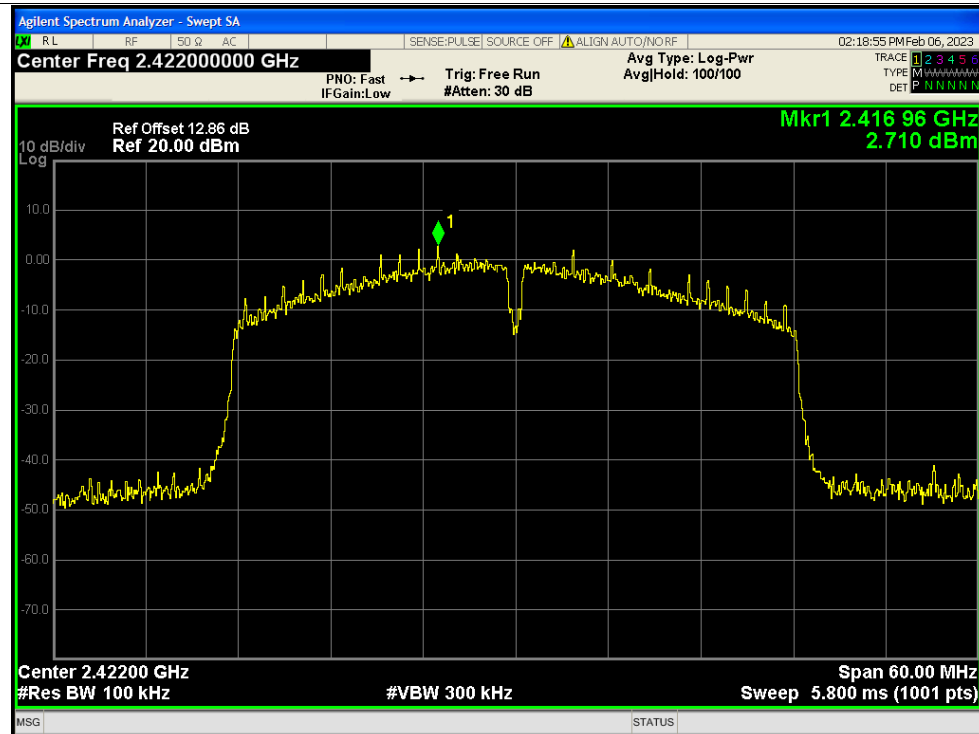


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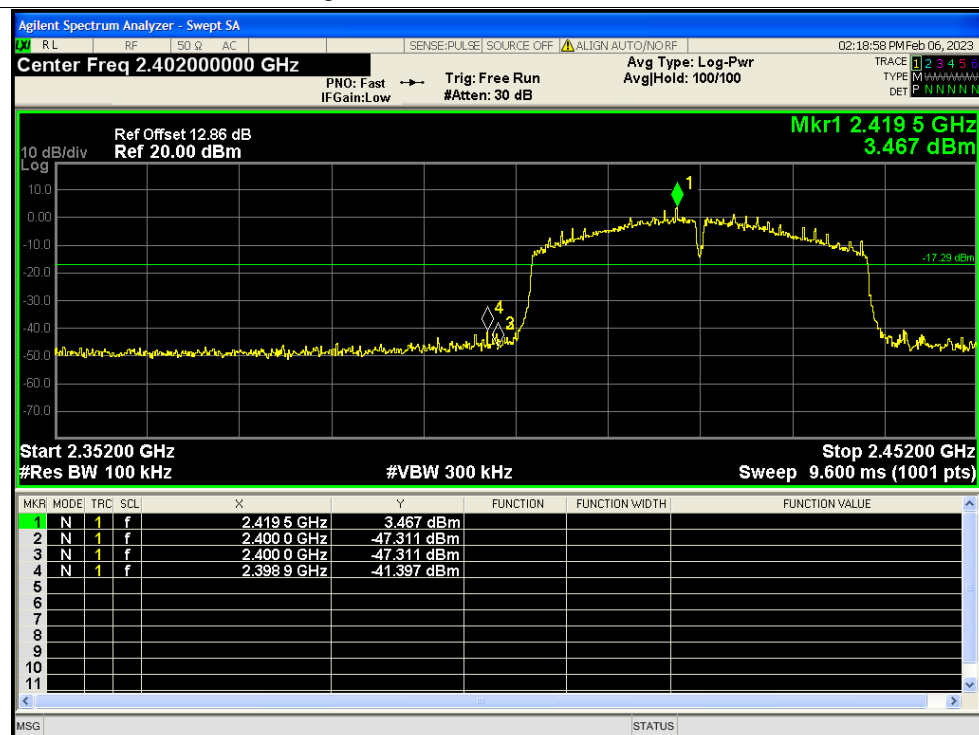




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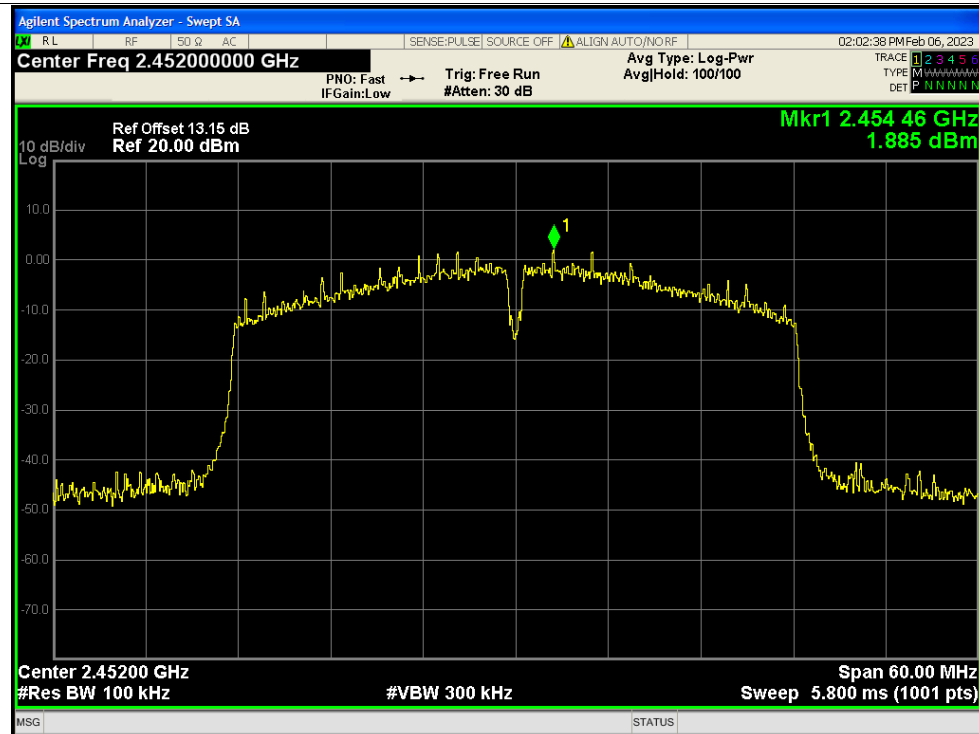


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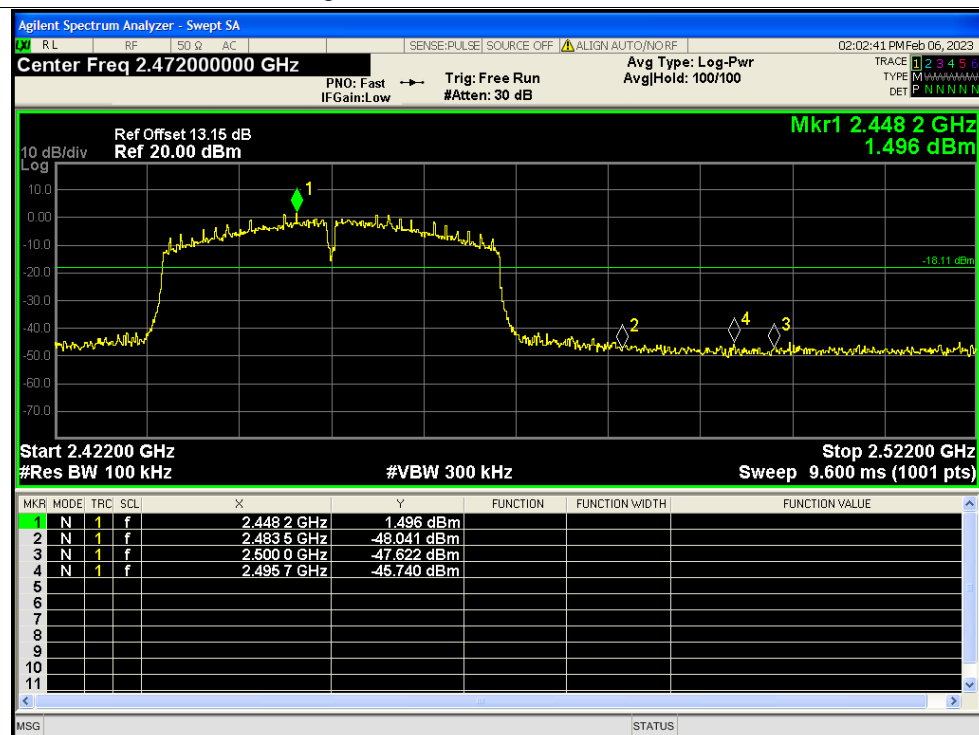




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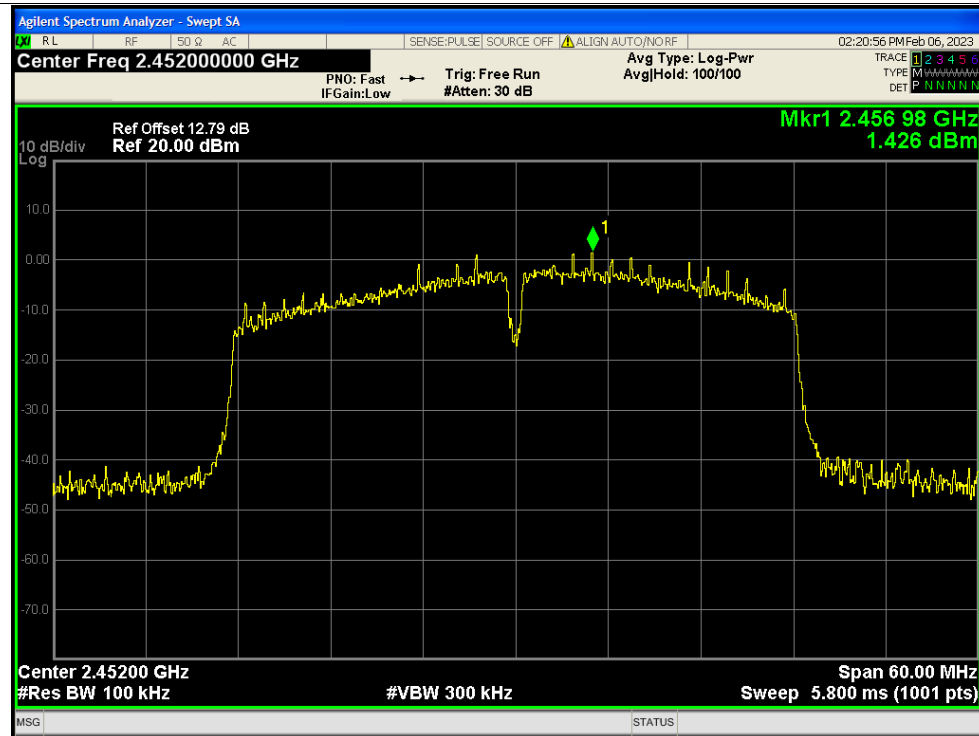


Band Edge NVNT n40 2452MHz Ant1 Emission

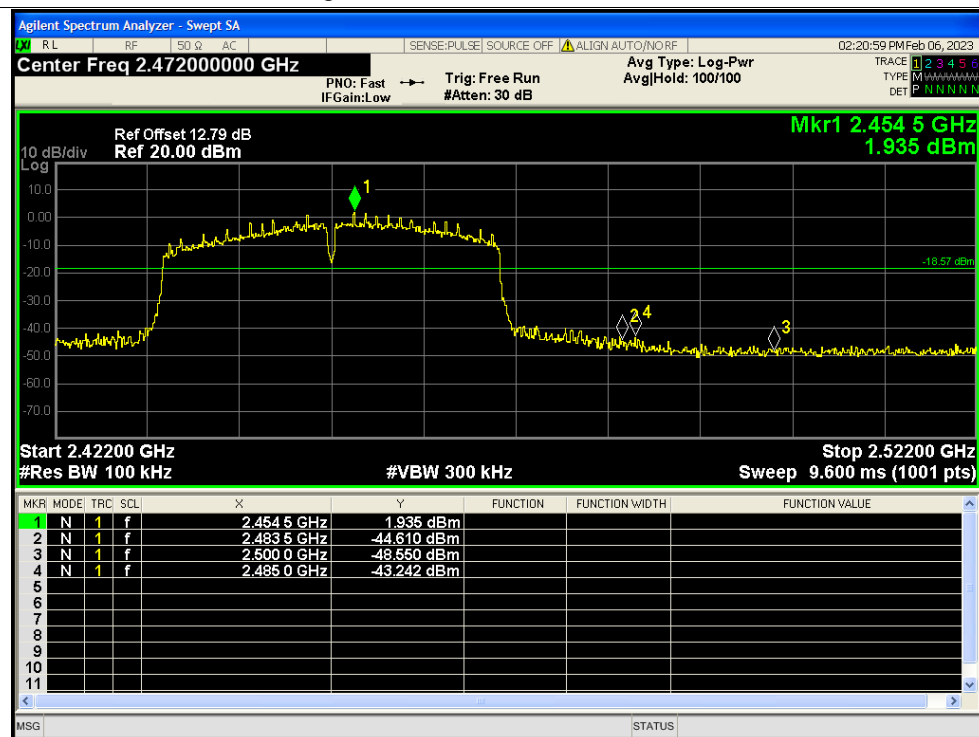




Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz 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	-5.01	0	-5.01	8	Pass
NVNT	b	2412	Ant2	-5.96	0	-5.96	8	Pass
NVNT	b	2437	Ant1	-5.75	0	-5.75	8	Pass
NVNT	b	2437	Ant2	-8.67	0	-8.67	8	Pass
NVNT	b	2462	Ant1	-5.56	0	-5.56	8	Pass
NVNT	b	2462	Ant2	-5.67	0	-5.67	8	Pass
NVNT	g	2412	Ant1	-8.11	0	-8.11	8	Pass
NVNT	g	2412	Ant2	-8.42	0	-8.42	8	Pass
NVNT	g	2437	Ant1	-8.5	0	-8.5	8	Pass
NVNT	g	2437	Ant2	-10.16	0	-10.16	8	Pass
NVNT	g	2462	Ant1	-7.99	0	-7.99	8	Pass
NVNT	g	2462	Ant2	-8.14	0	-8.14	8	Pass
NVNT	n20	2412	Ant1	-10.3	0	-10.3	8	Pass
NVNT	n20	2412	Ant2	-10.44	0	-10.44	8	Pass
NVNT	n20	2412	Ant1	-12.35	0	-12.35	8	Pass
NVNT	n20	2412	Ant2	-12.47	0	-12.47	8	Pass
NVNT	n20	2412	Sum	-9.4	0	-9.4	8	Pass
NVNT	n20	2437	Ant1	-10.48	0	-10.48	8	Pass
NVNT	n20	2437	Ant2	-13.33	0	-13.33	8	Pass
NVNT	n20	2437	Ant1	-13.47	0	-13.47	8	Pass
NVNT	n20	2437	Ant2	-15.62	0	-15.62	8	Pass
NVNT	n20	2437	Sum	-11.4	0	-11.4	8	Pass
NVNT	n20	2462	Ant1	-10.36	0	-10.36	8	Pass
NVNT	n20	2462	Ant2	-10.64	0	-10.64	8	Pass
NVNT	n20	2462	Ant1	-13.17	0	-13.17	8	Pass
NVNT	n20	2462	Ant2	-12.99	0	-12.99	8	Pass
NVNT	n20	2462	Sum	-10.07	0	-10.07	8	Pass
NVNT	n40	2422	Ant1	-11.86	0	-11.86	8	Pass
NVNT	n40	2422	Ant2	-10.65	0	-10.65	8	Pass
NVNT	n40	2422	Ant1	-14.72	0	-14.72	8	Pass
NVNT	n40	2422	Ant2	-14.94	0	-14.94	8	Pass
NVNT	n40	2422	Sum	-11.82	0	-11.82	8	Pass
NVNT	n40	2437	Ant1	-12.28	0	-12.28	8	Pass
NVNT	n40	2437	Ant2	-13.06	0	-13.06	8	Pass



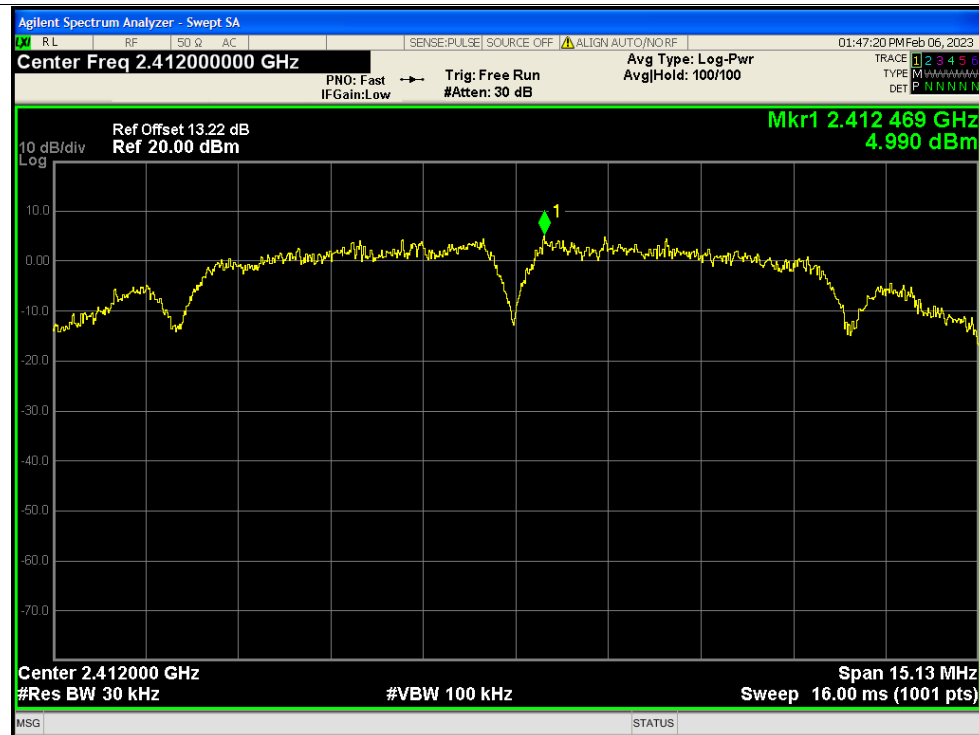
REPORT No.: SZ23010057W01

NVNT	n40	2437	Ant1	-14.82	0	-14.82	8	Pass
NVNT	n40	2437	Ant2	-17.33	0	-17.33	8	Pass
NVNT	n40	2437	Sum	-12.89	0	-12.89	8	Pass
NVNT	n40	2452	Ant1	-11.69	0	-11.69	8	Pass
NVNT	n40	2452	Ant2	-13.04	0	-13.04	8	Pass
NVNT	n40	2452	Ant1	-14.73	0	-14.73	8	Pass
NVNT	n40	2452	Ant2	-16.51	0	-16.51	8	Pass
NVNT	n40	2452	Sum	-12.52	0	-12.52	8	Pass

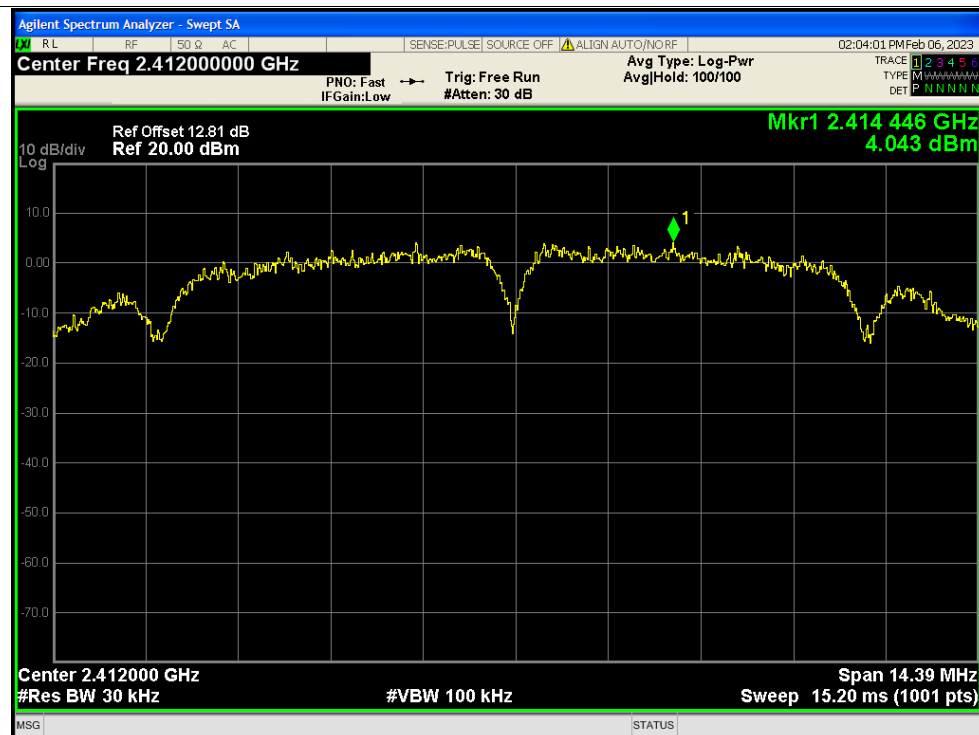


Test Graphs

PSD NVNT b 2412MHz Ant1

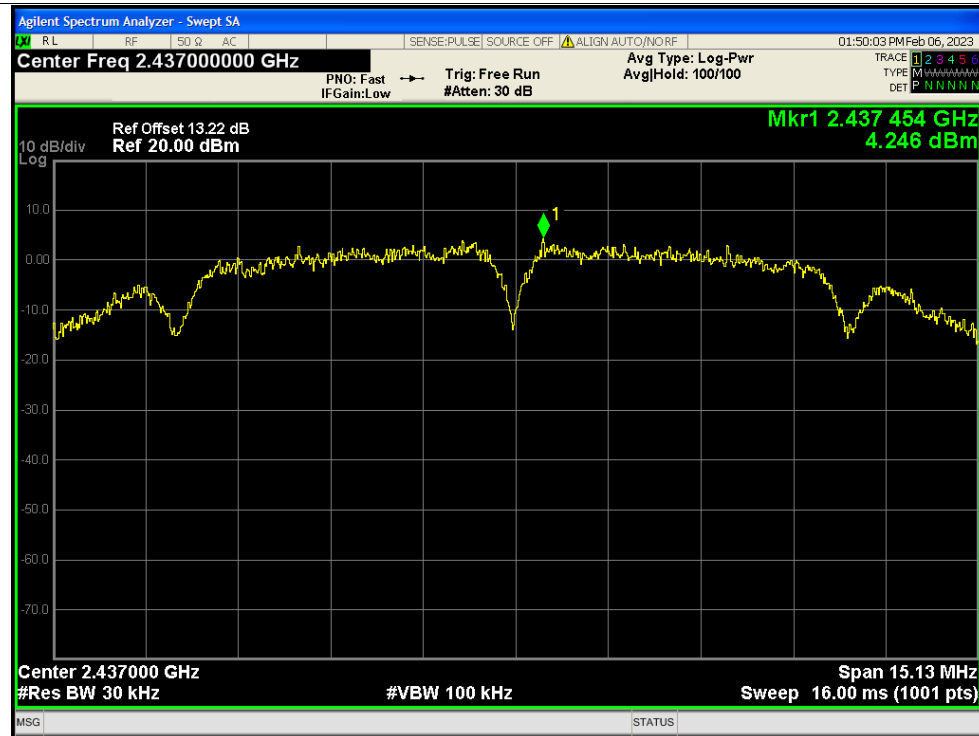


PSD NVNT b 2412MHz Ant2

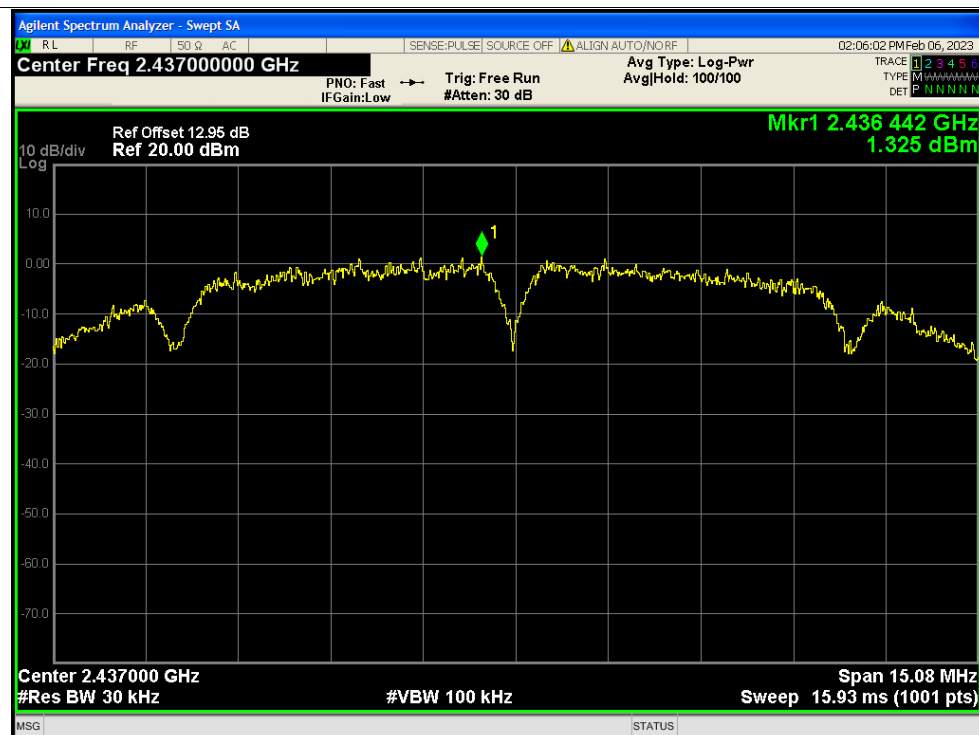




PSD NVNT b 2437MHz Ant1

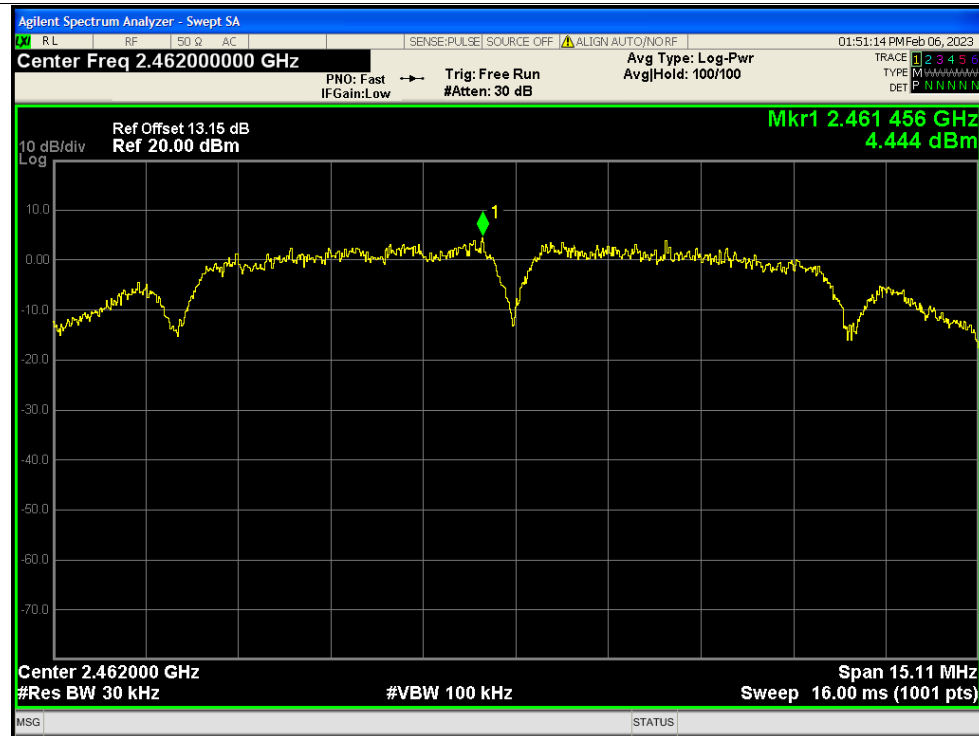


PSD NVNT b 2437MHz Ant2

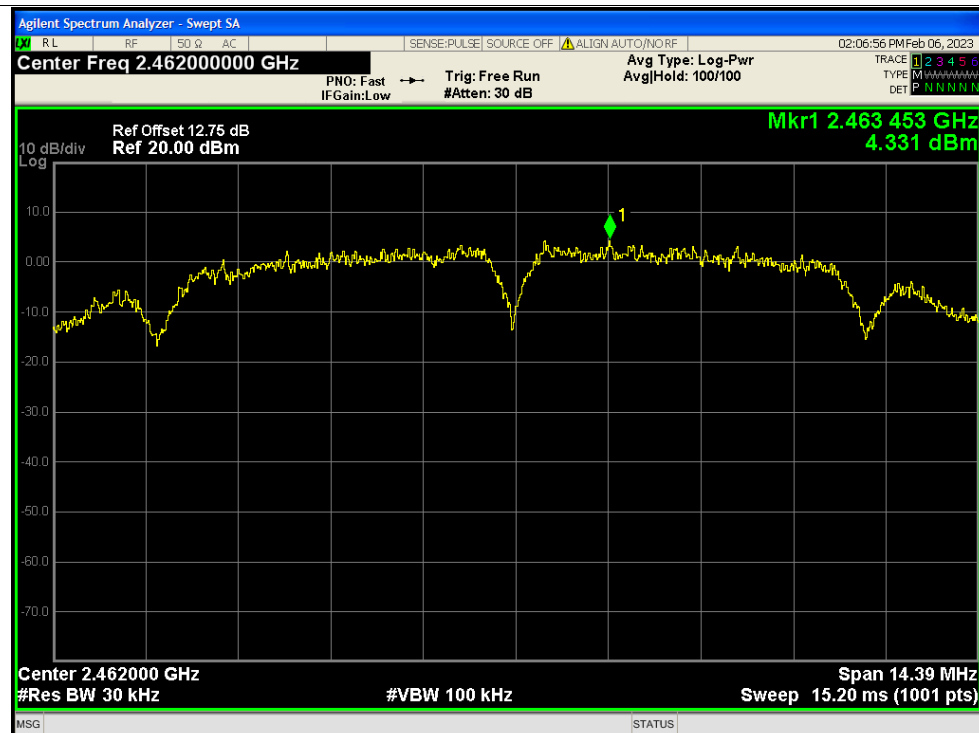




PSD NVNT b 2462MHz Ant1

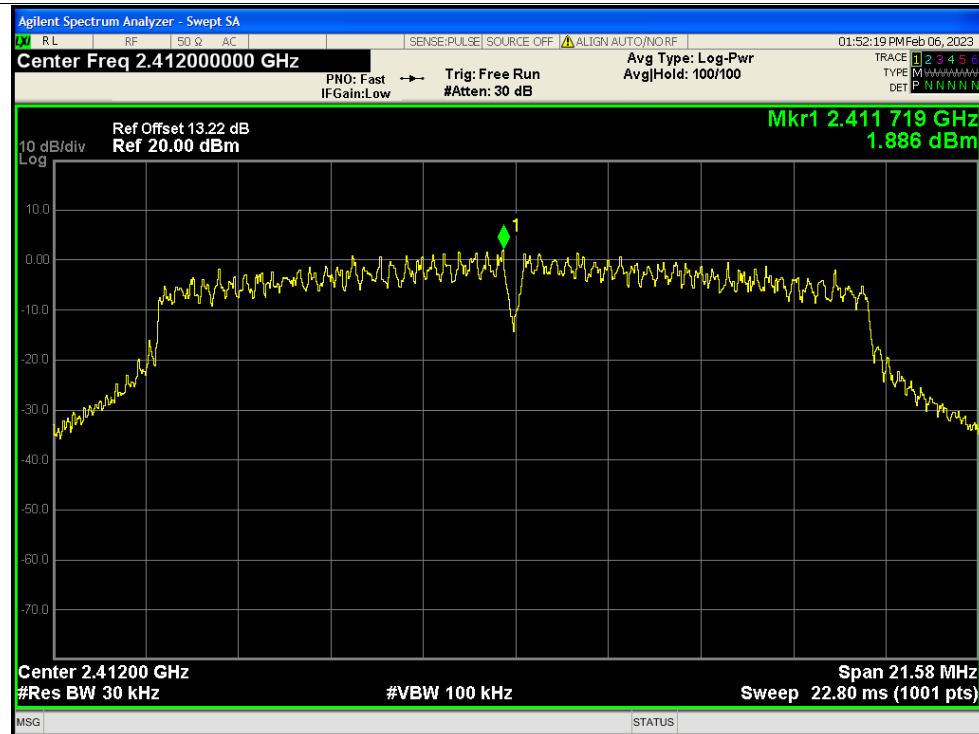


PSD NVNT b 2462MHz Ant2

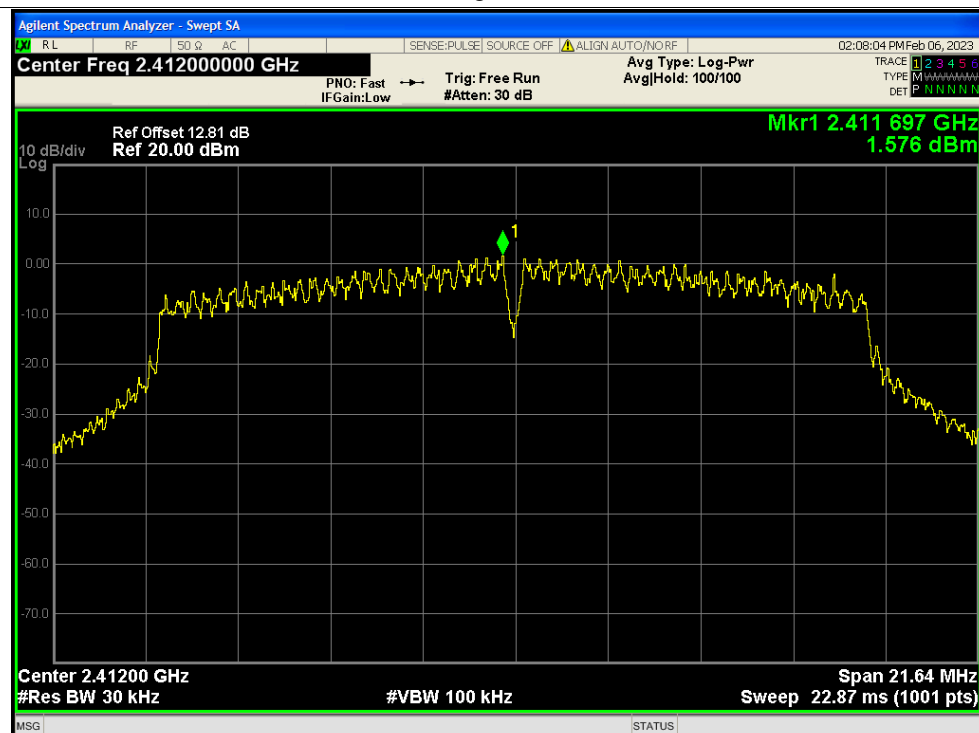




PSD NVNT g 2412MHz Ant1

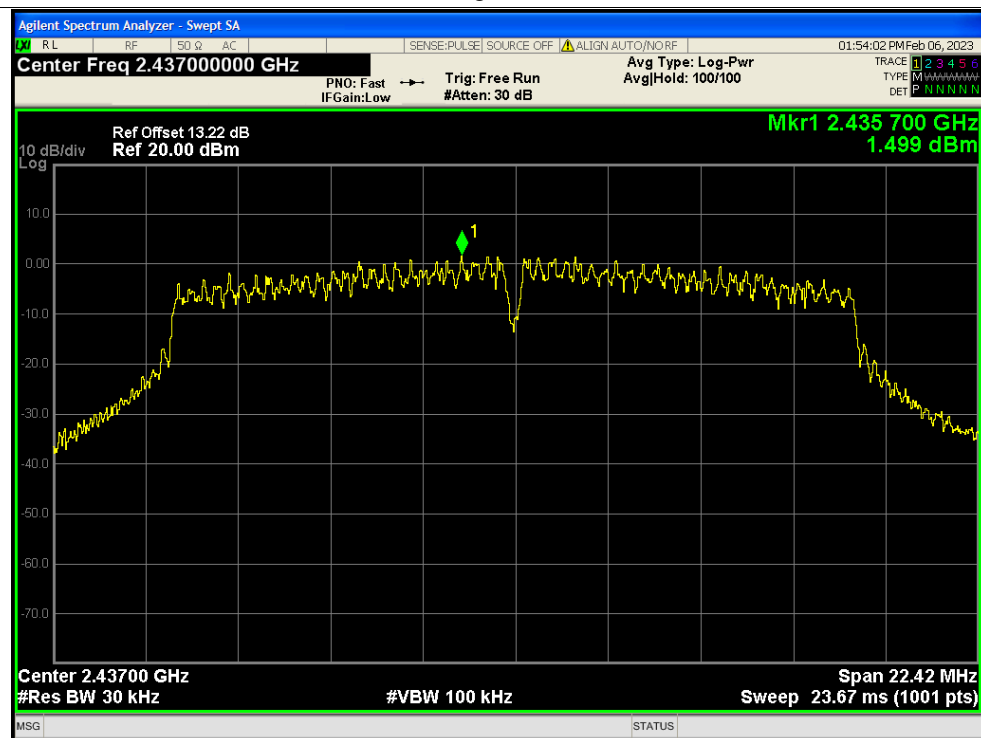


PSD NVNT g 2412MHz Ant2

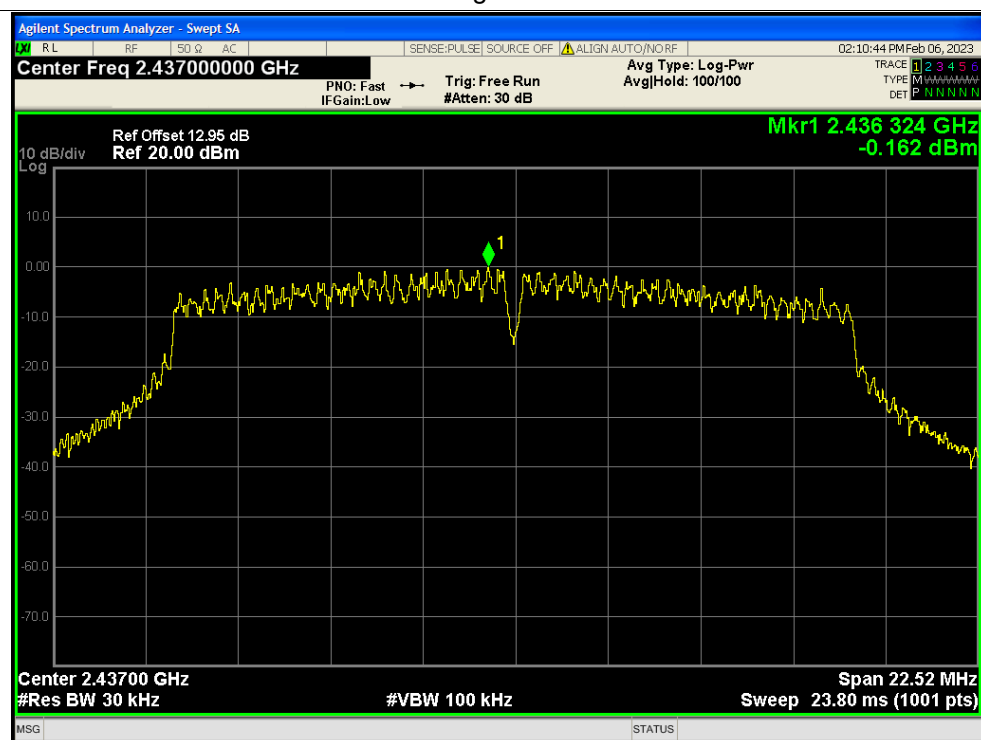




PSD NVNT g 2437MHz Ant1

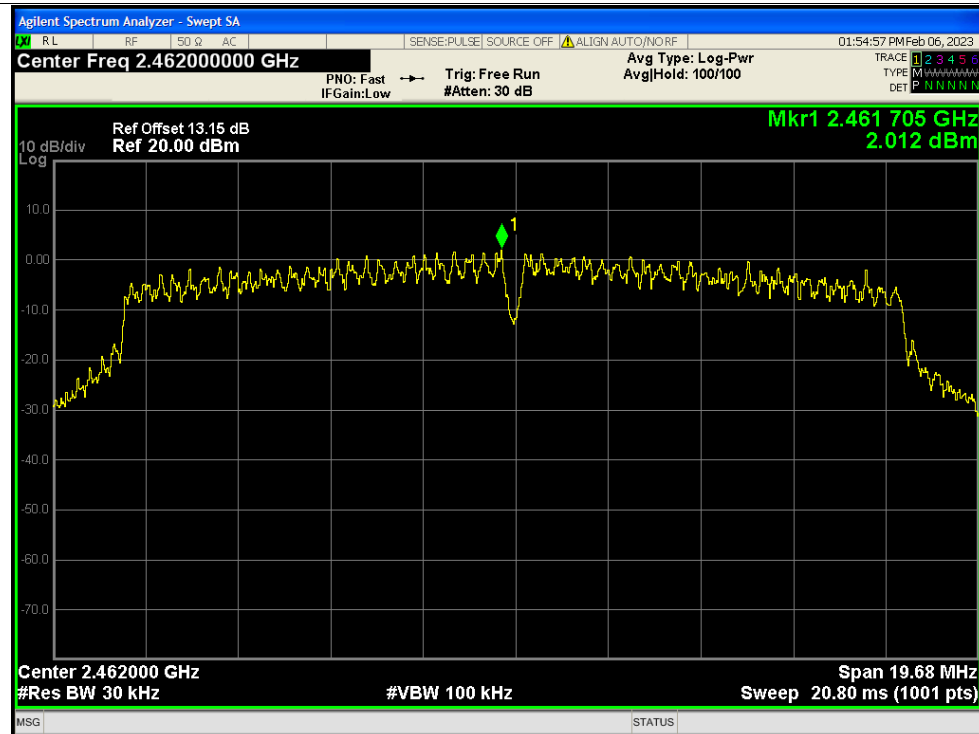


PSD NVNT g 2437MHz Ant2

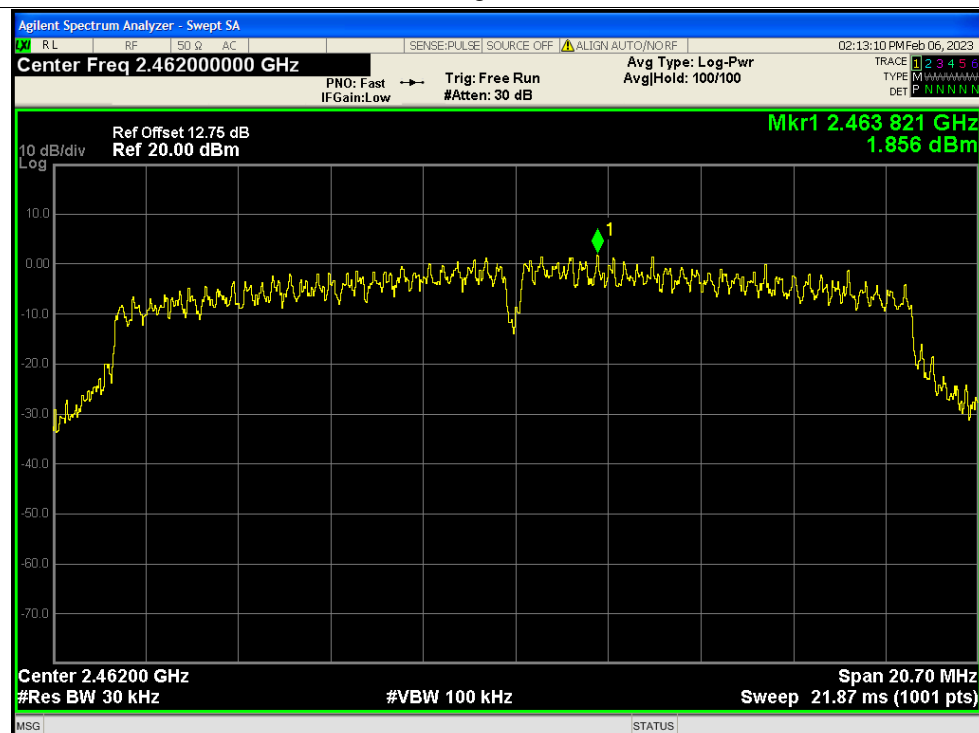




PSD NVNT g 2462MHz Ant1

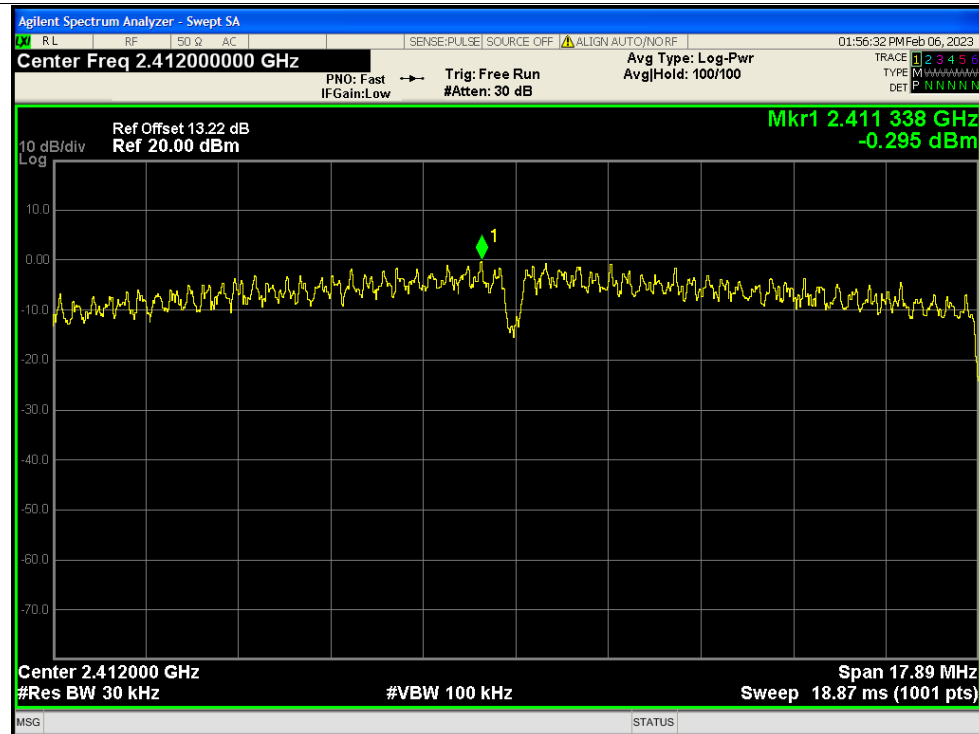


PSD NVNT g 2462MHz Ant2

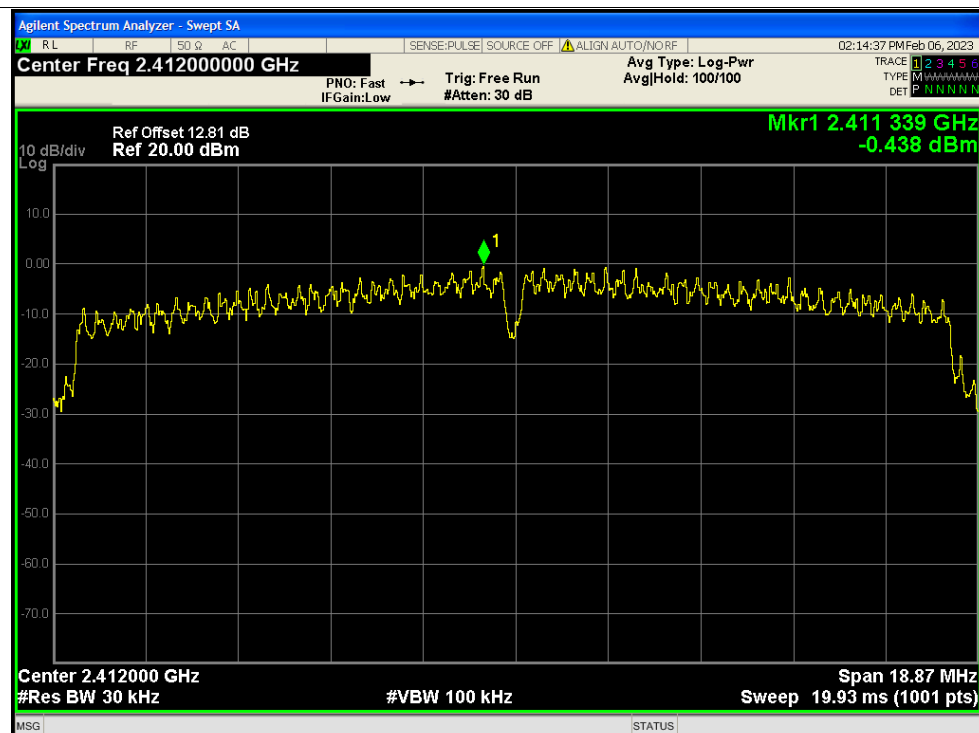




PSD NVNT n20 2412MHz Ant1

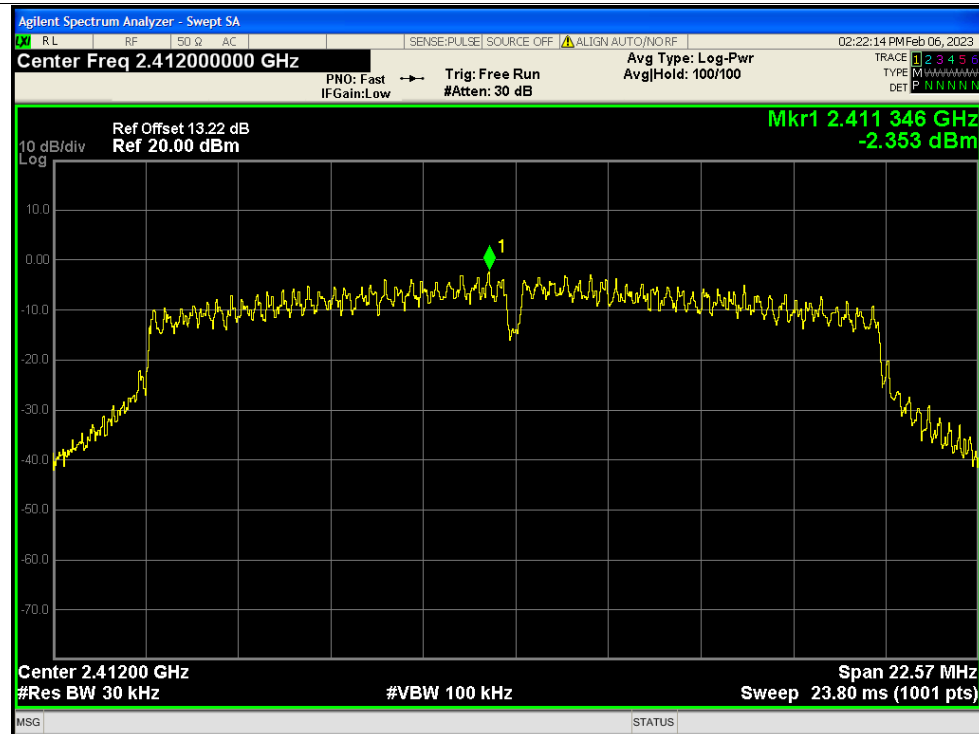


PSD NVNT n20 2412MHz Ant2

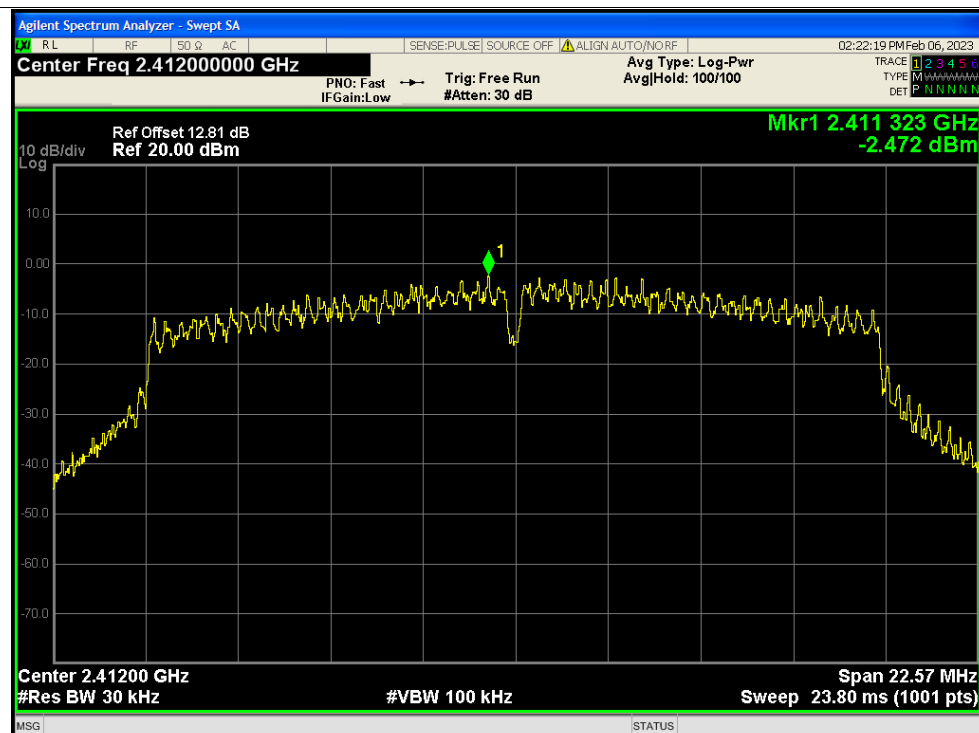




PSD NVNT n20 2412MHz Ant1

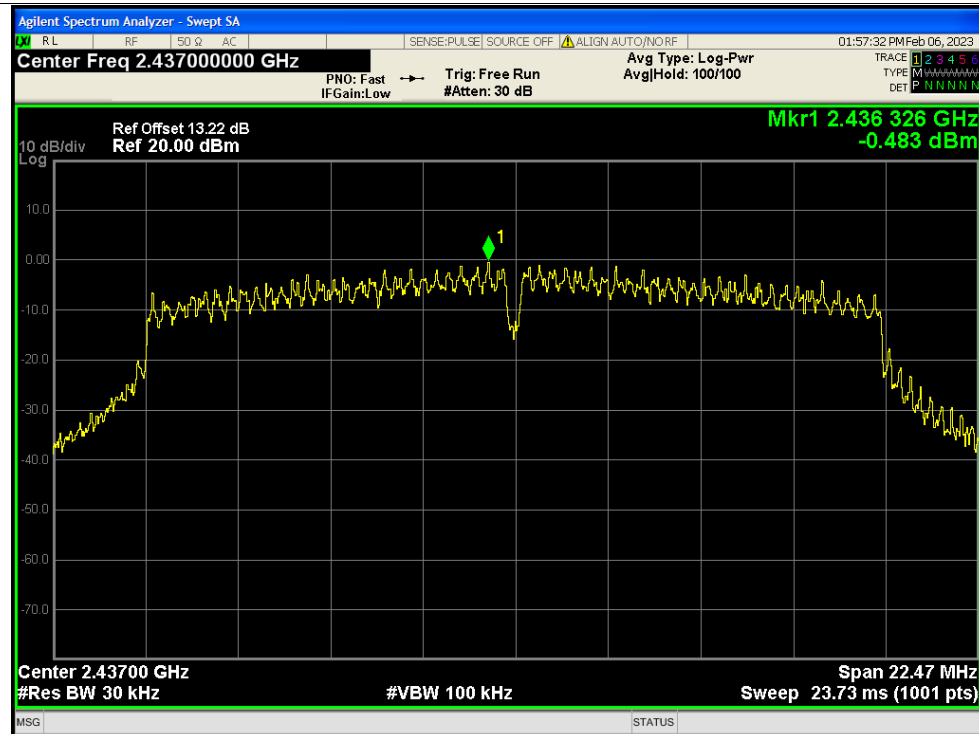


PSD NVNT n20 2412MHz Ant2

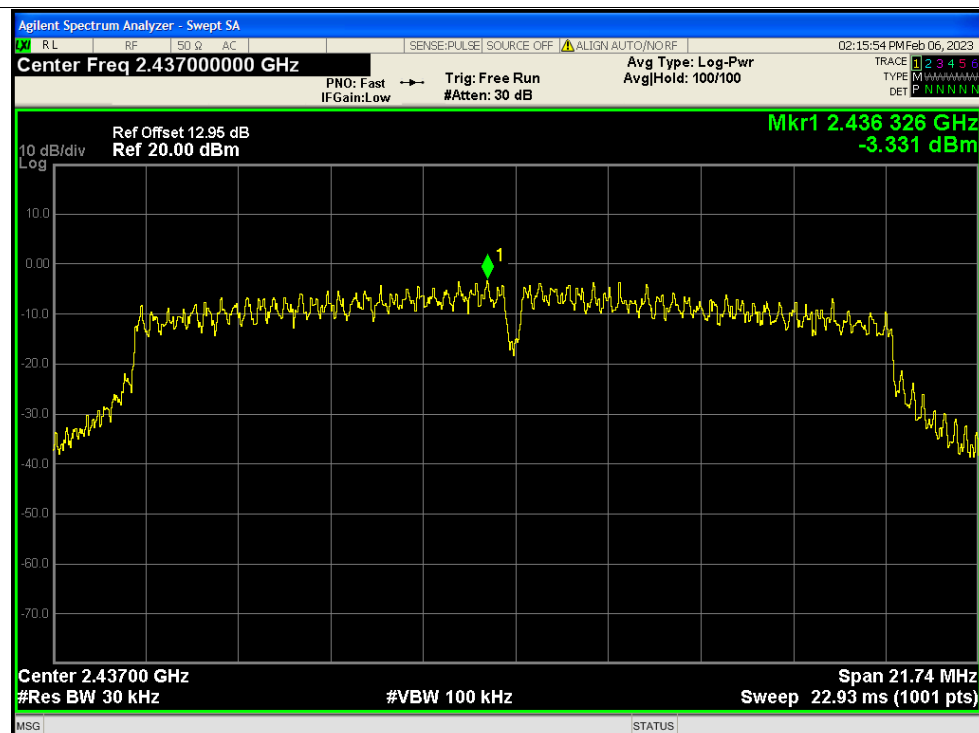




PSD NVNT n20 2437MHz Ant1

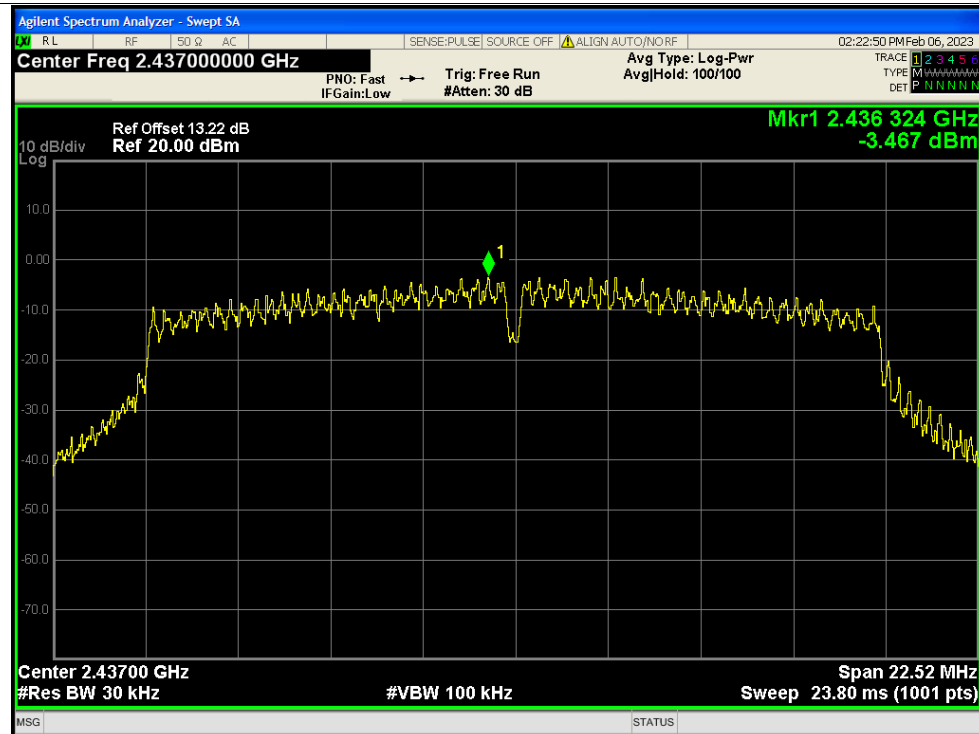


PSD NVNT n20 2437MHz Ant2

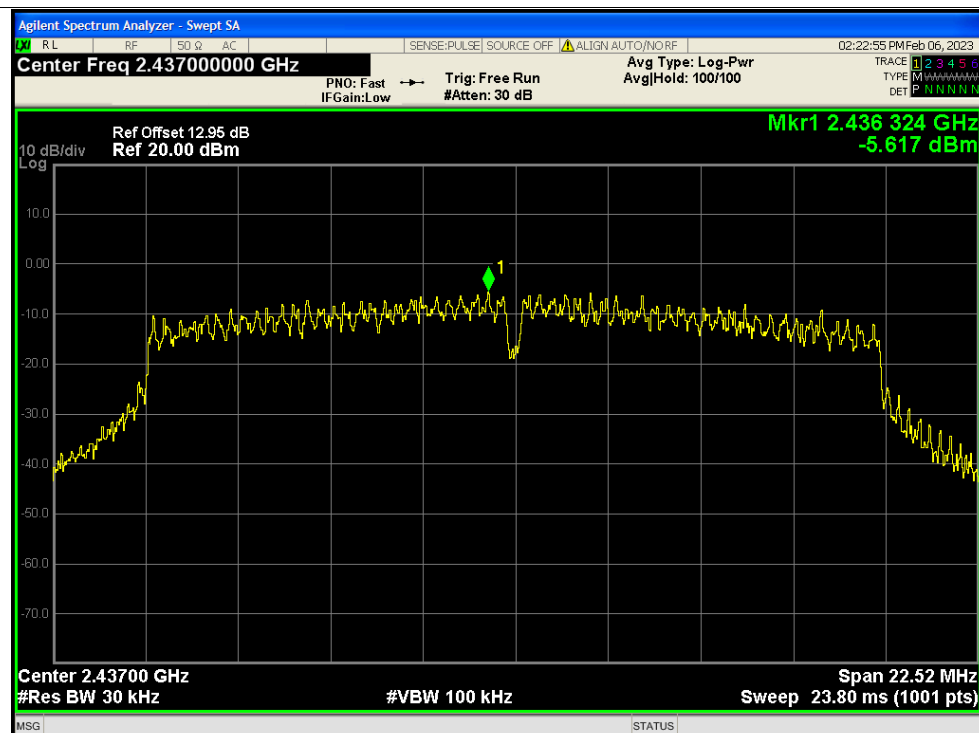




PSD NVNT n20 2437MHz Ant1

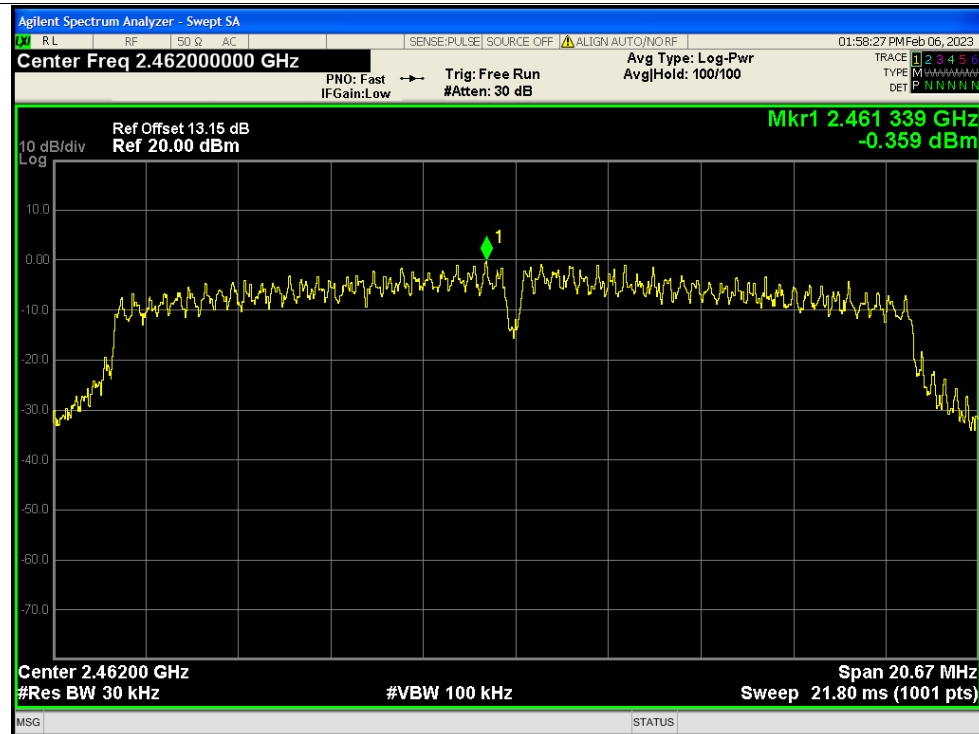


PSD NVNT n20 2437MHz Ant2

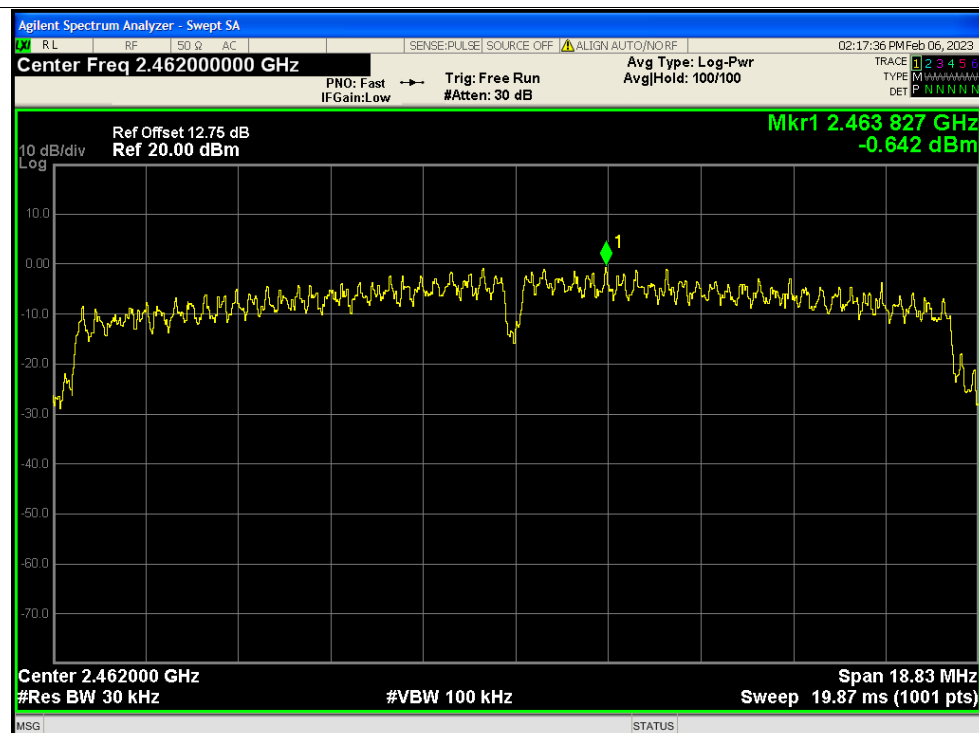




PSD NVNT n20 2462MHz Ant1

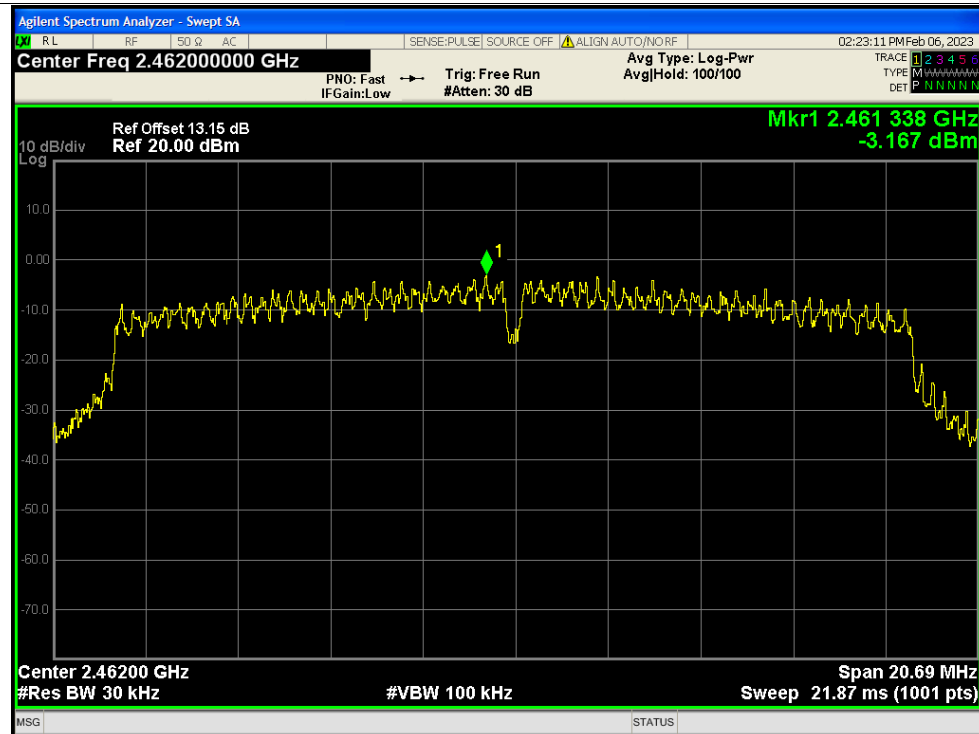


PSD NVNT n20 2462MHz Ant2

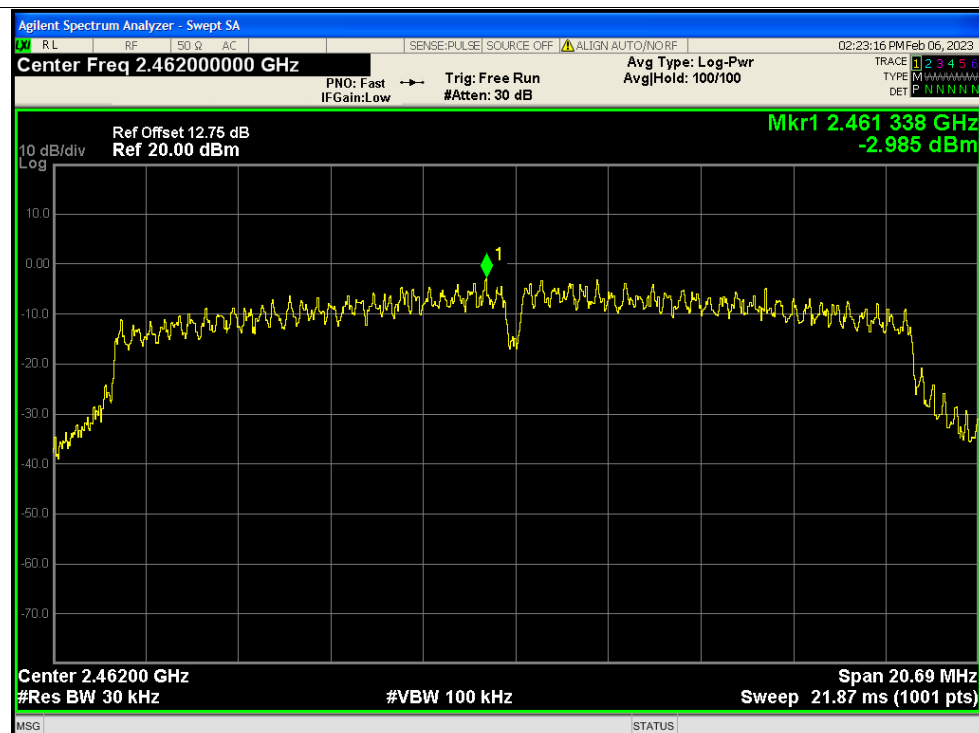




PSD NVNT n20 2462MHz Ant1

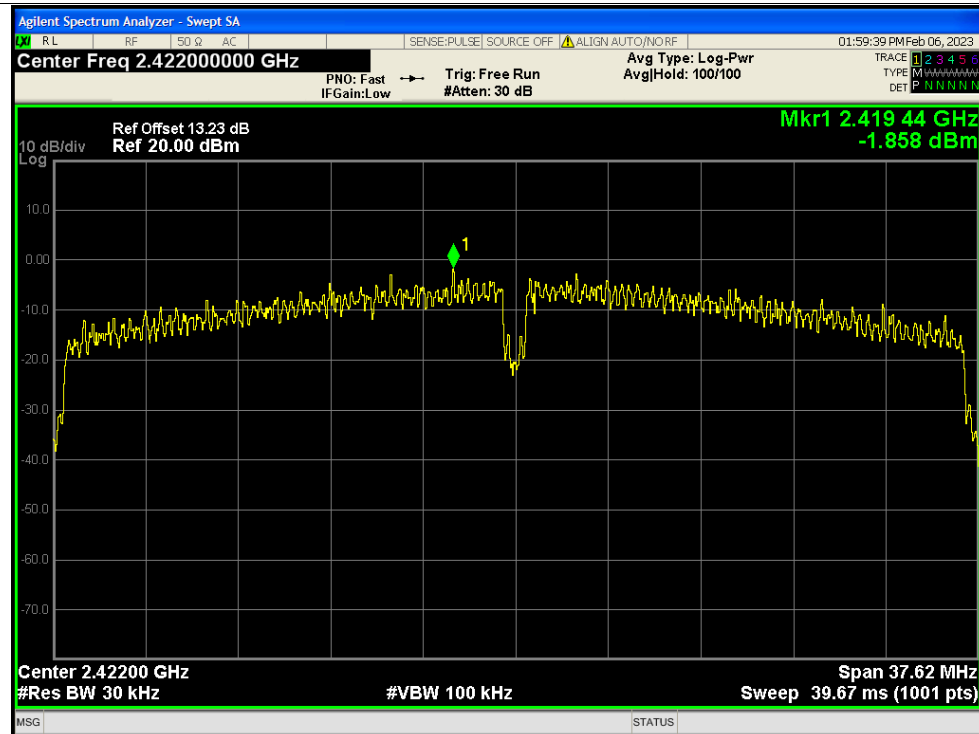


PSD NVNT n20 2462MHz Ant2

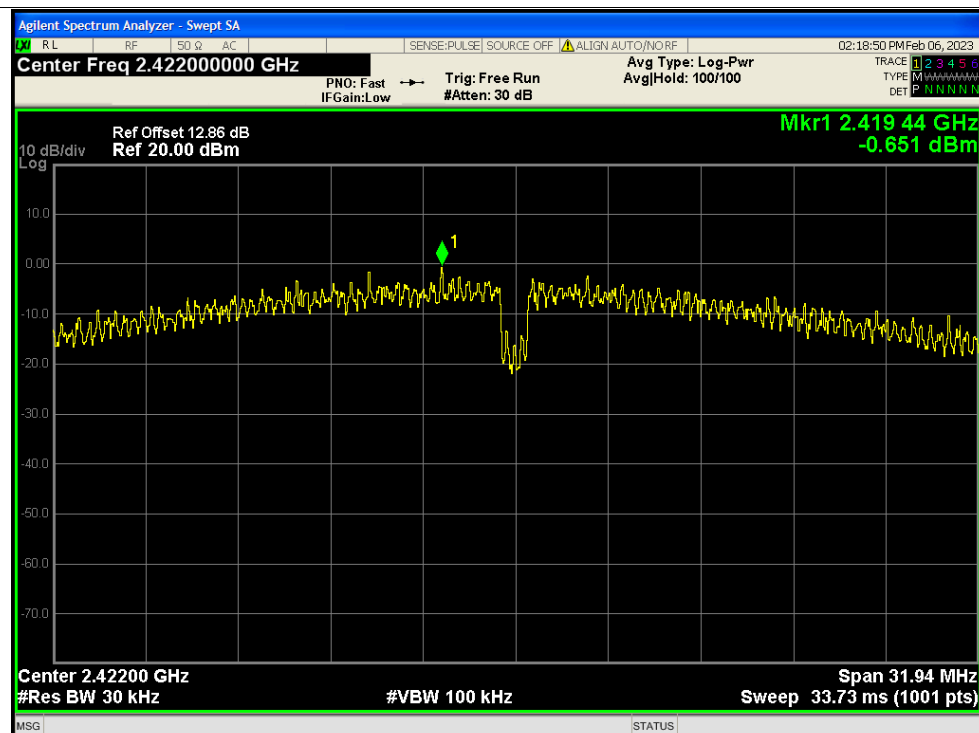




PSD NVNT n40 2422MHz Ant1

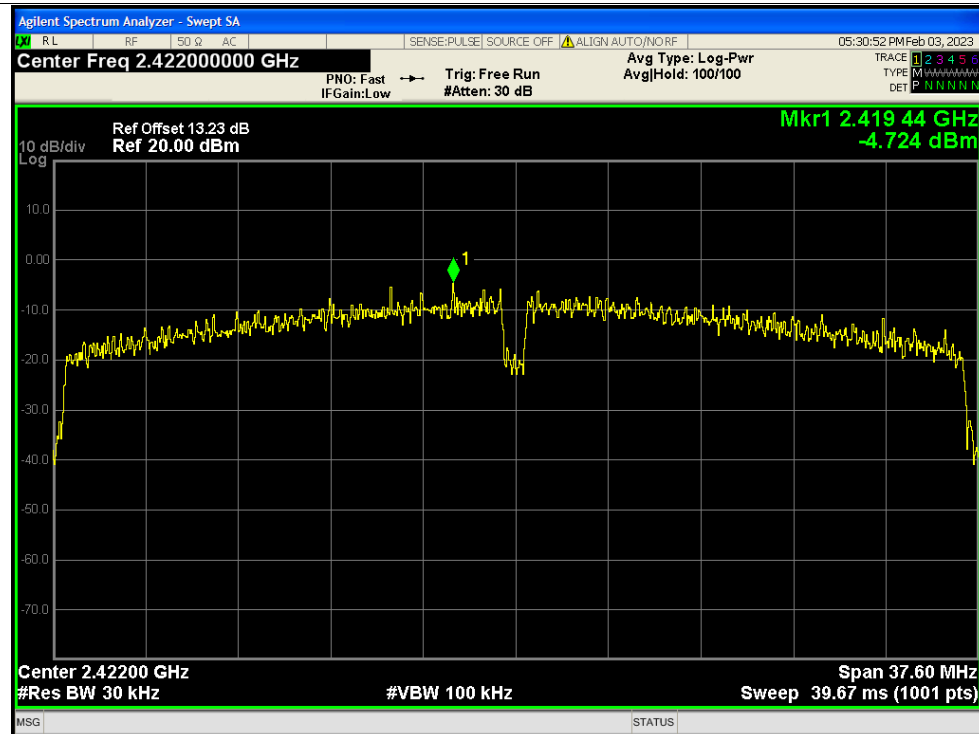


PSD NVNT n40 2422MHz Ant2

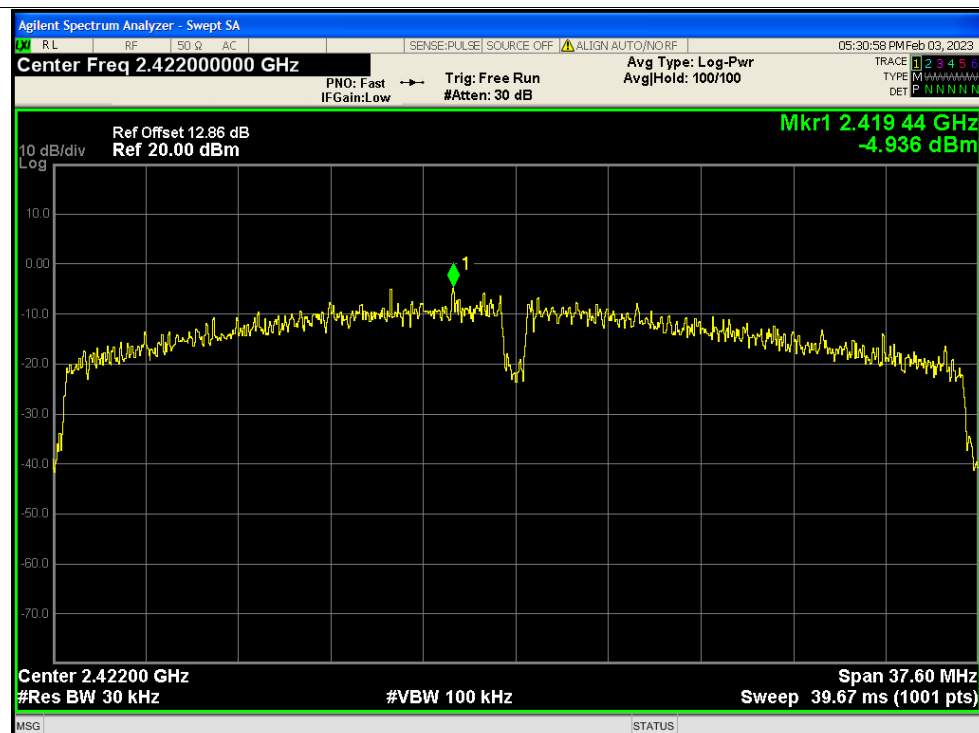




PSD NVNT n40 2422MHz Ant1

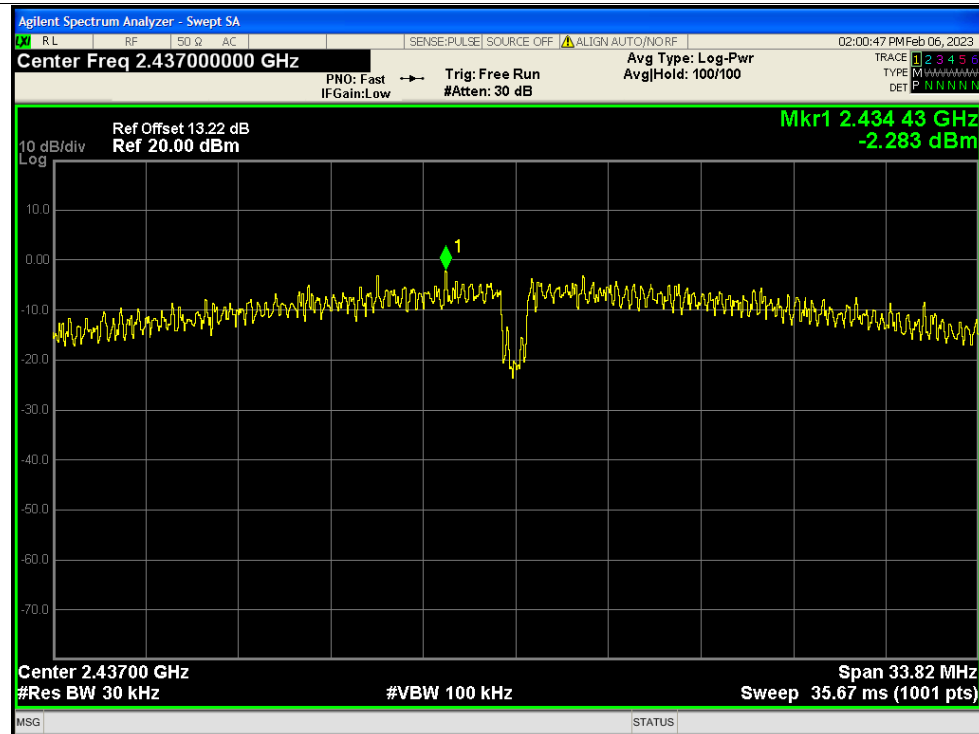


PSD NVNT n40 2422MHz Ant2

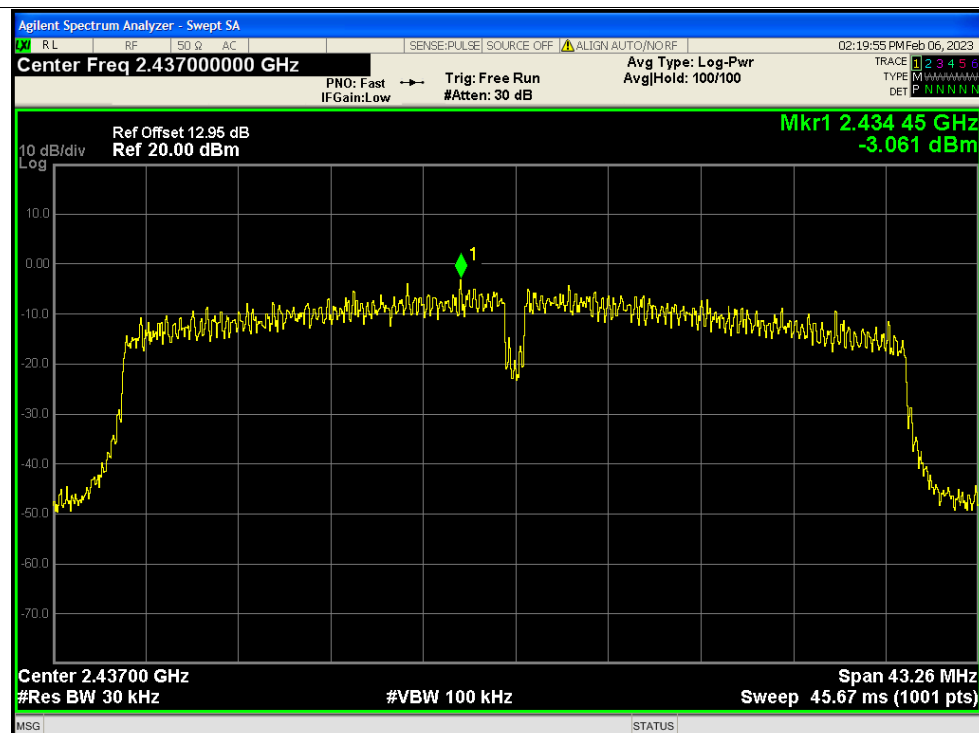




PSD NVNT n40 2437MHz Ant1

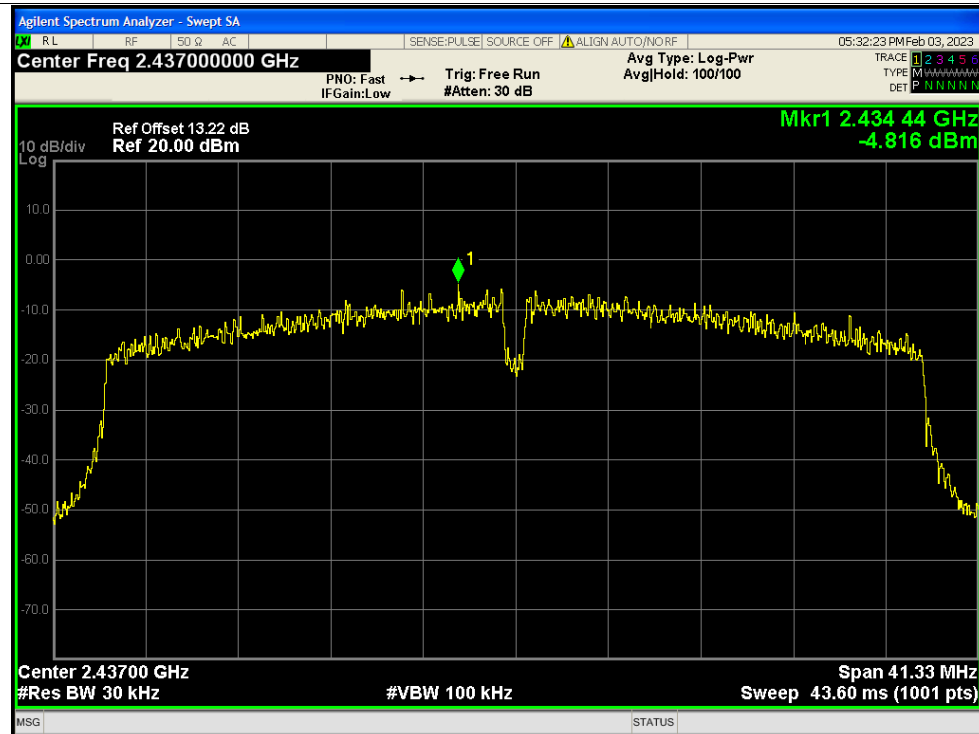


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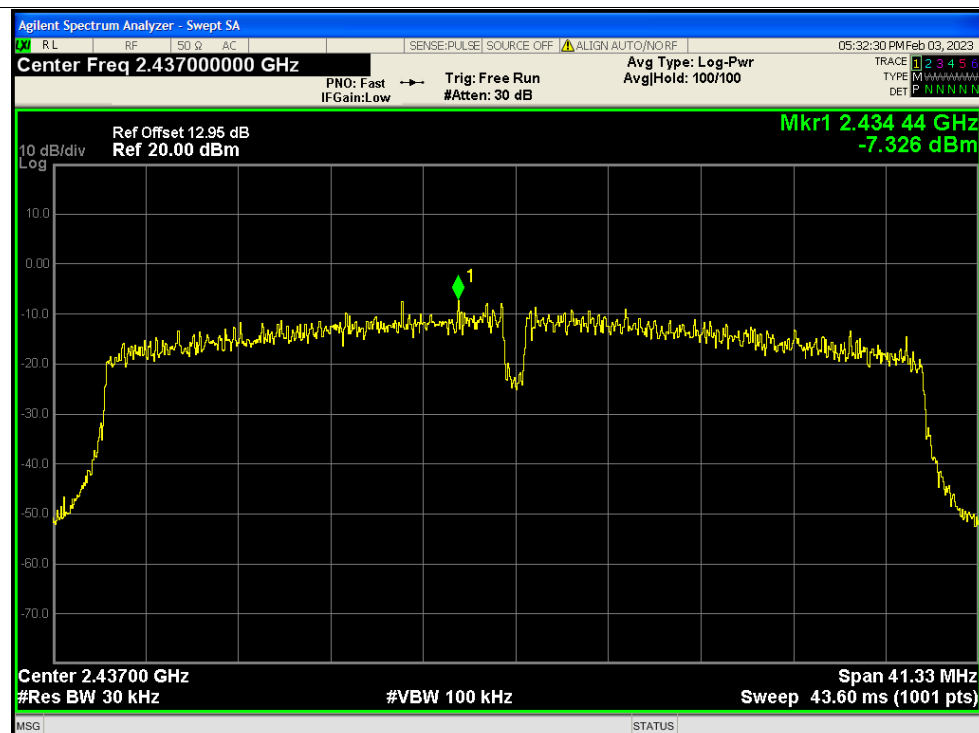




PSD NVNT n40 2437MHz Ant1

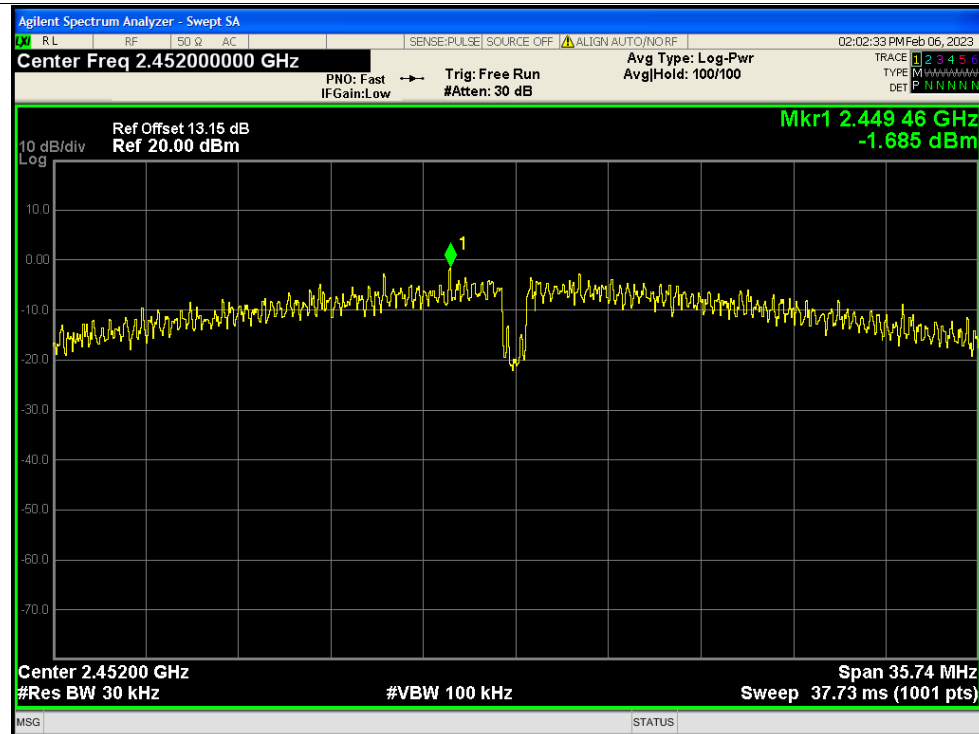


PSD NVNT n40 2437MHz Ant2

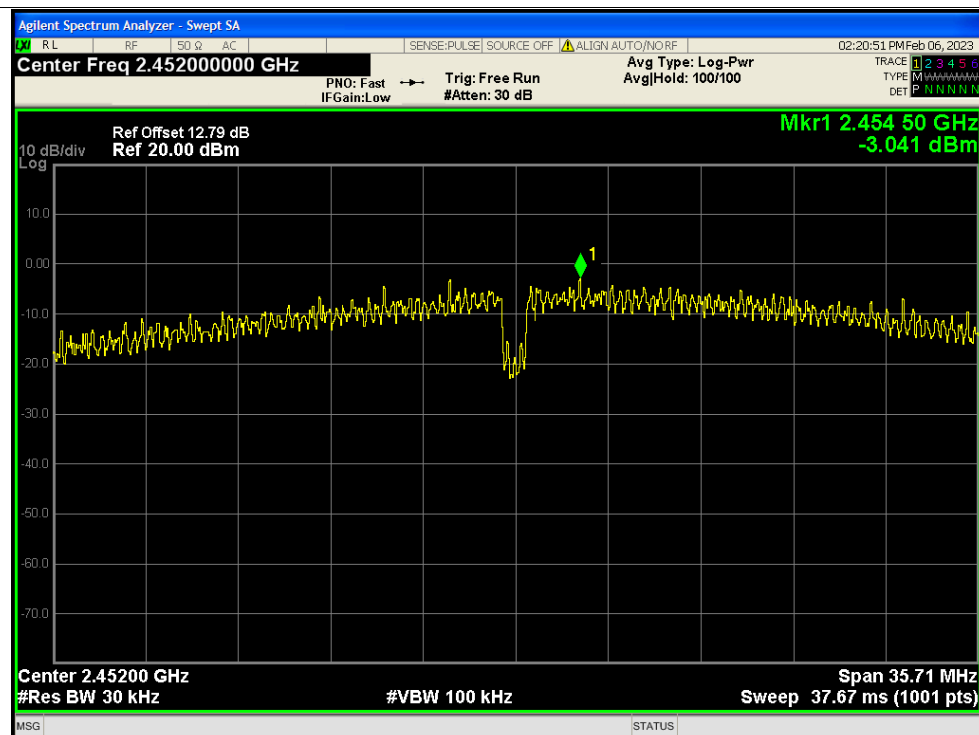




PSD NVNT n40 2452MHz Ant1

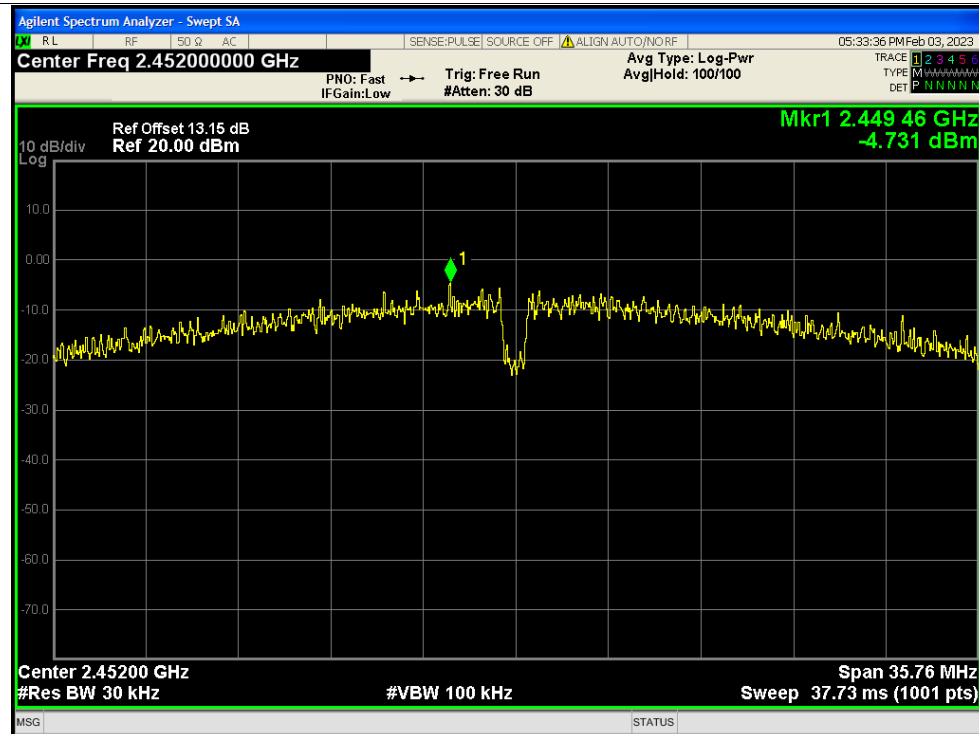


PSD NVNT n40 2452MHz Ant2

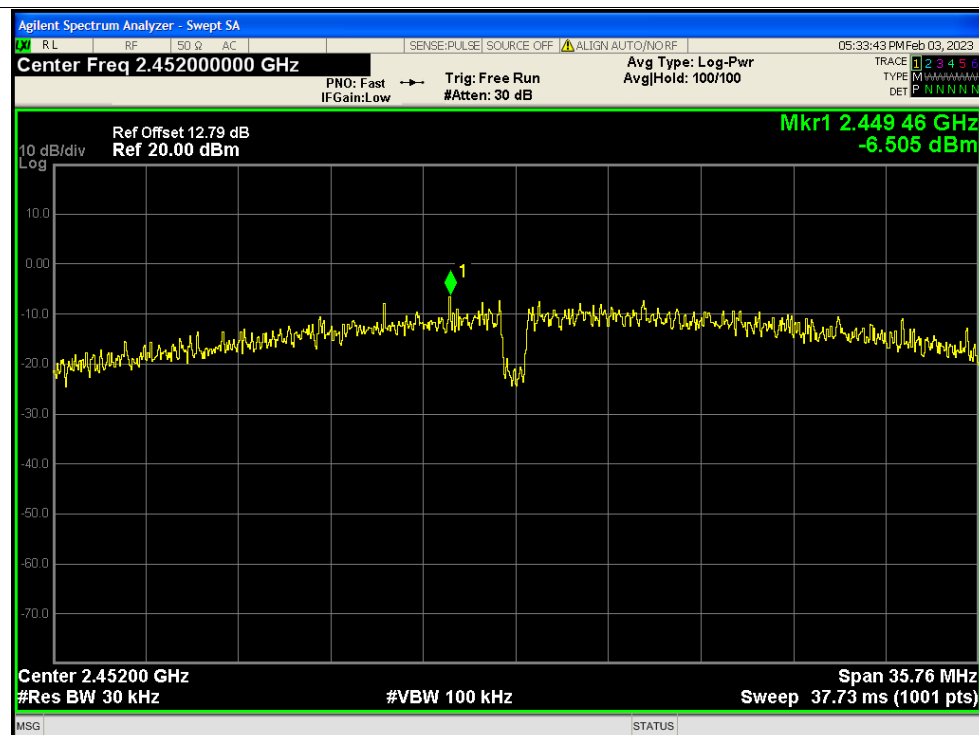




PSD NVNT n40 2452MHz Ant1



PSD NVNT n40 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 + PC Adapter + RJ45 Link + WIFI TX

Test voltage: AC 120V/60Hz

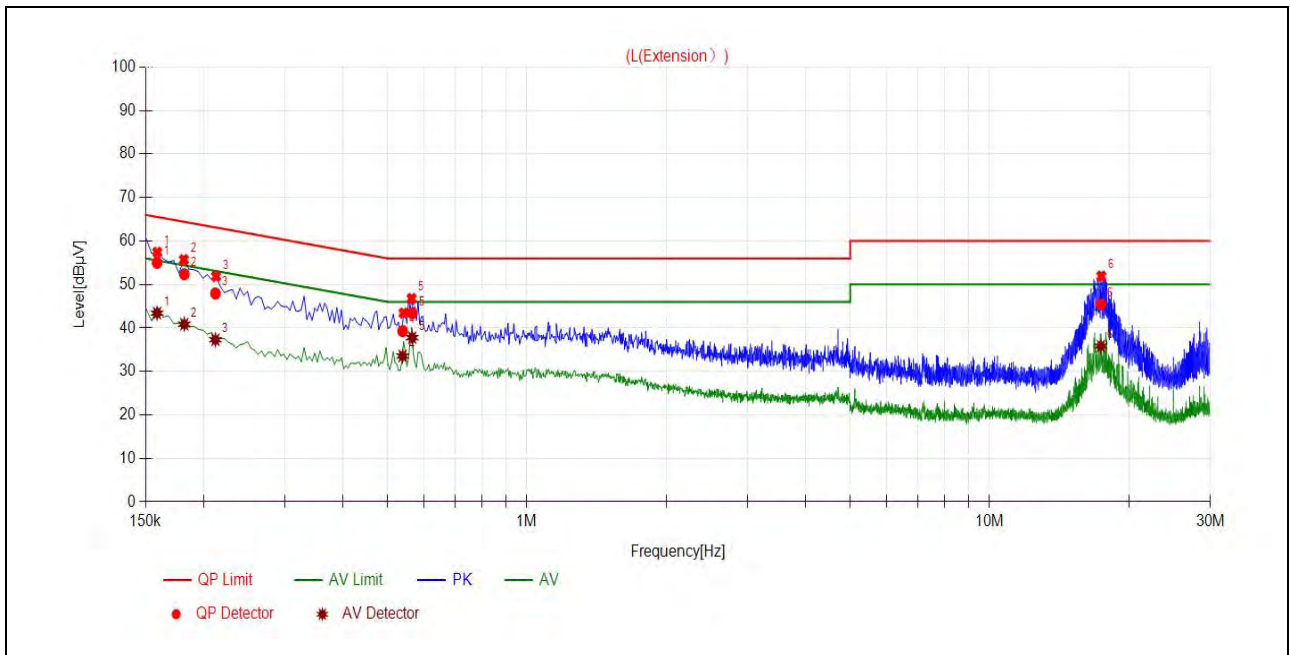
The measurement results are obtained as below:

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

U_R : Receiver Reading

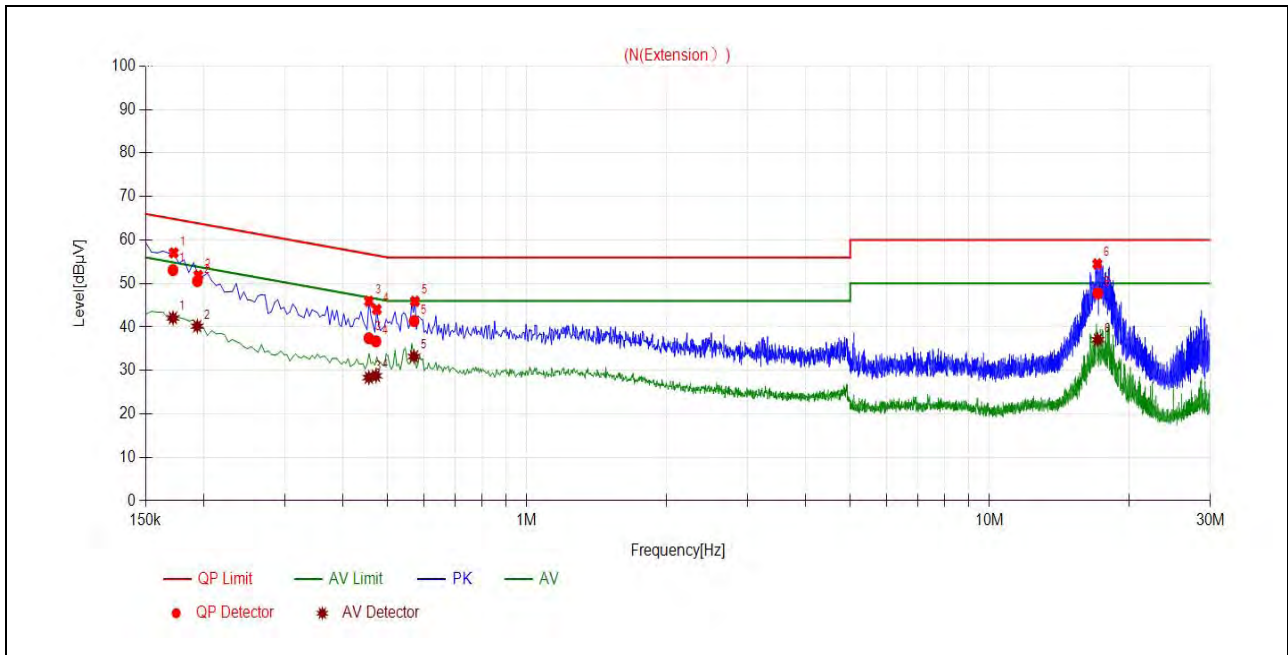
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1588	55.00	43.42	65.53	55.53	Line	PASS
2	0.1819	52.36	40.85	64.40	54.40		PASS
3	0.2123	47.92	37.28	63.11	53.11		PASS
4	0.5389	39.27	33.53	56.00	46.00		PASS
5	0.5653	43.41	37.76	56.00	46.00		PASS
6	17.3999	45.41	35.81	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	0.1719	53.07	42.08	64.87	54.87	Neutral	PASS
2	0.1940	50.56	40.18	63.86	53.86		PASS
3	0.4556	37.40	28.36	56.77	46.77		PASS
4	0.4720	36.67	28.78	56.48	46.48		PASS
5	0.5705	41.35	33.19	56.00	46.00		PASS
6	17.1387	47.75	37.05	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

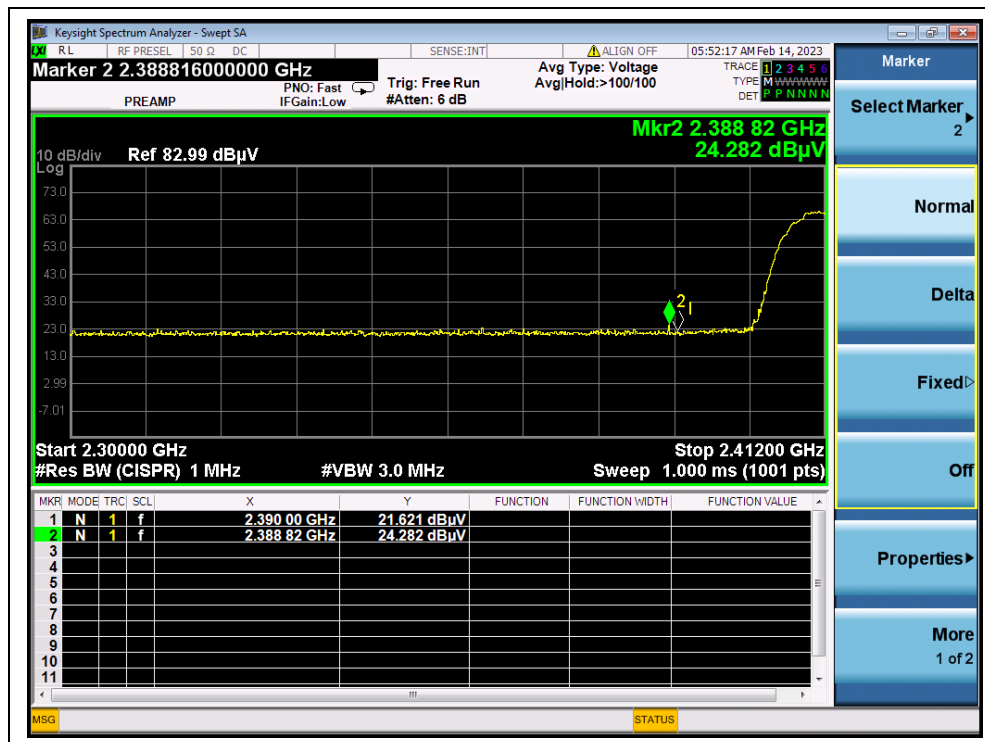
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

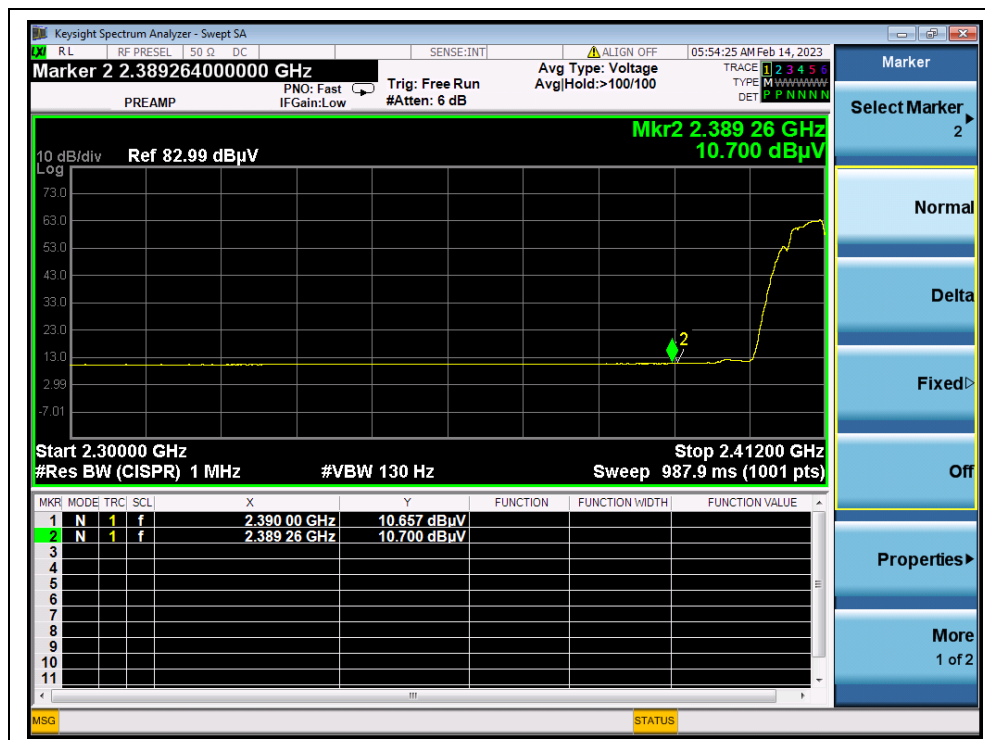
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

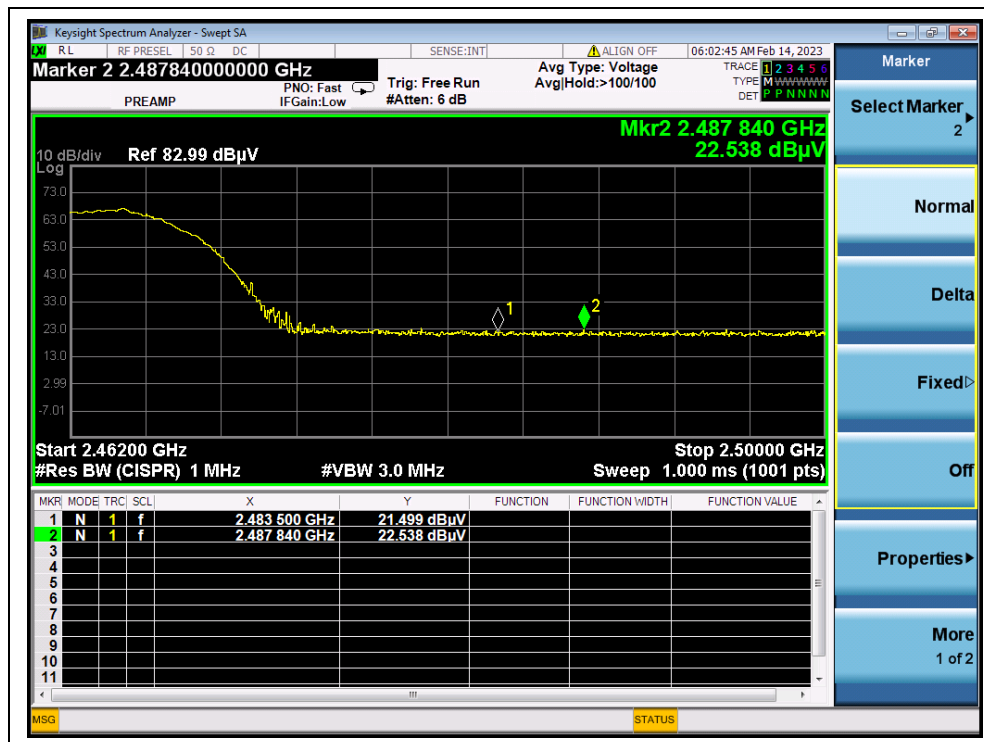
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2388.82	PK	24.28	6.74	27.20	58.22	74	PASS
1	2389.26	AV	10.70	6.74	27.20	44.64	54	PASS
11	2487.84	PK	22.54	6.74	27.20	56.48	74	PASS
11	2484.23	AV	10.33	6.74	27.20	44.27	54	PASS



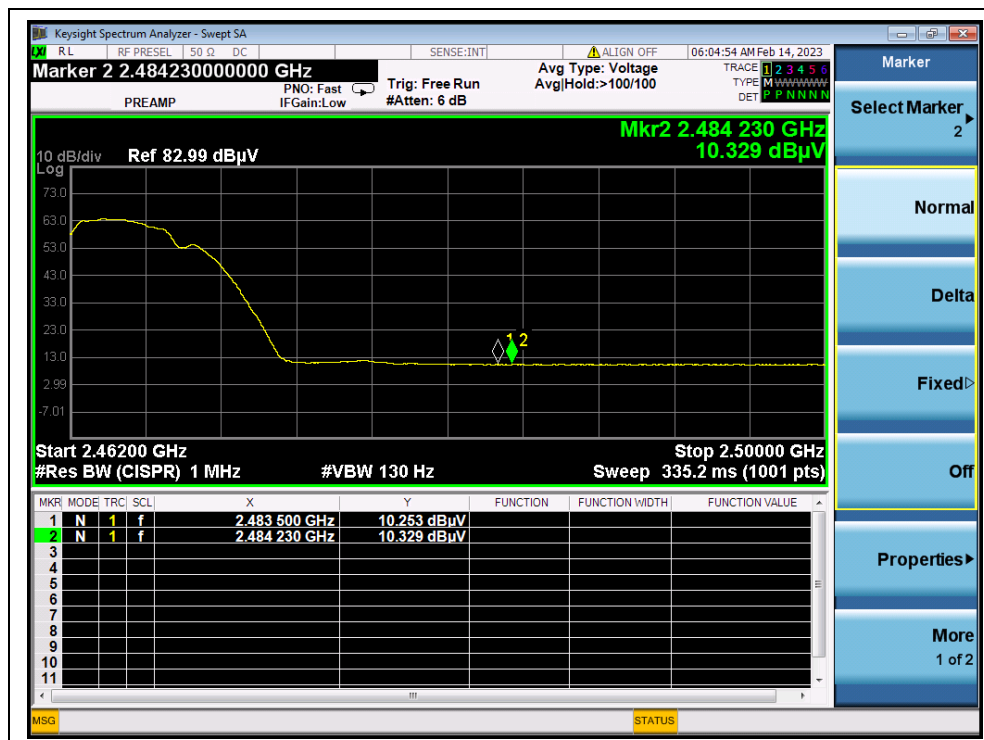
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

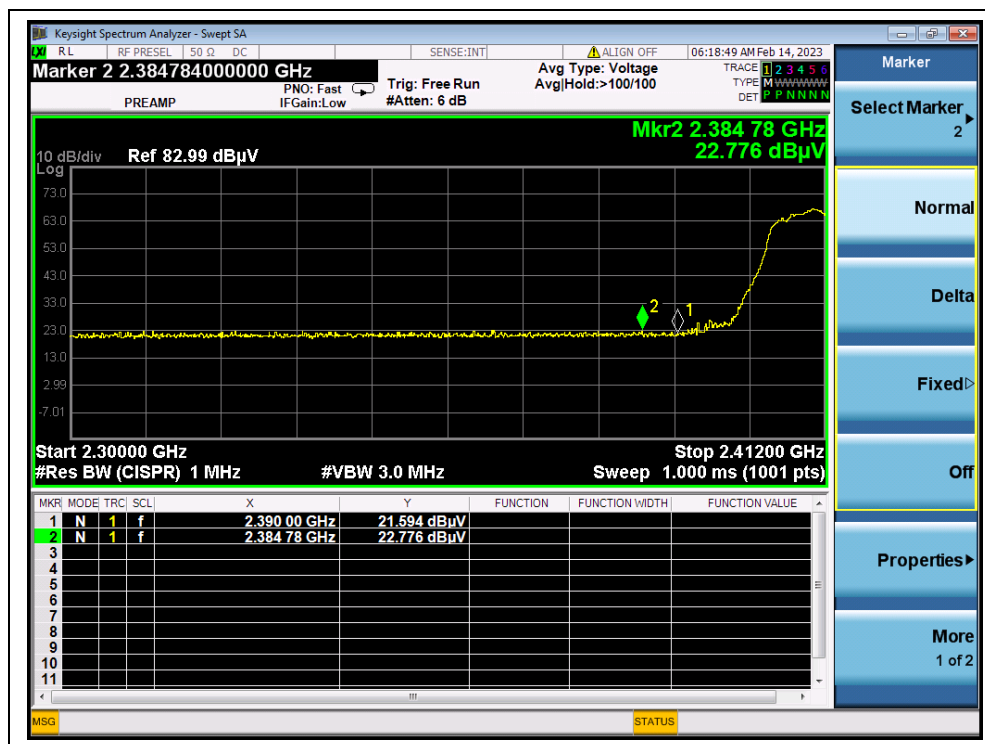


(AVERAGE, Channel 11, 802.11b)

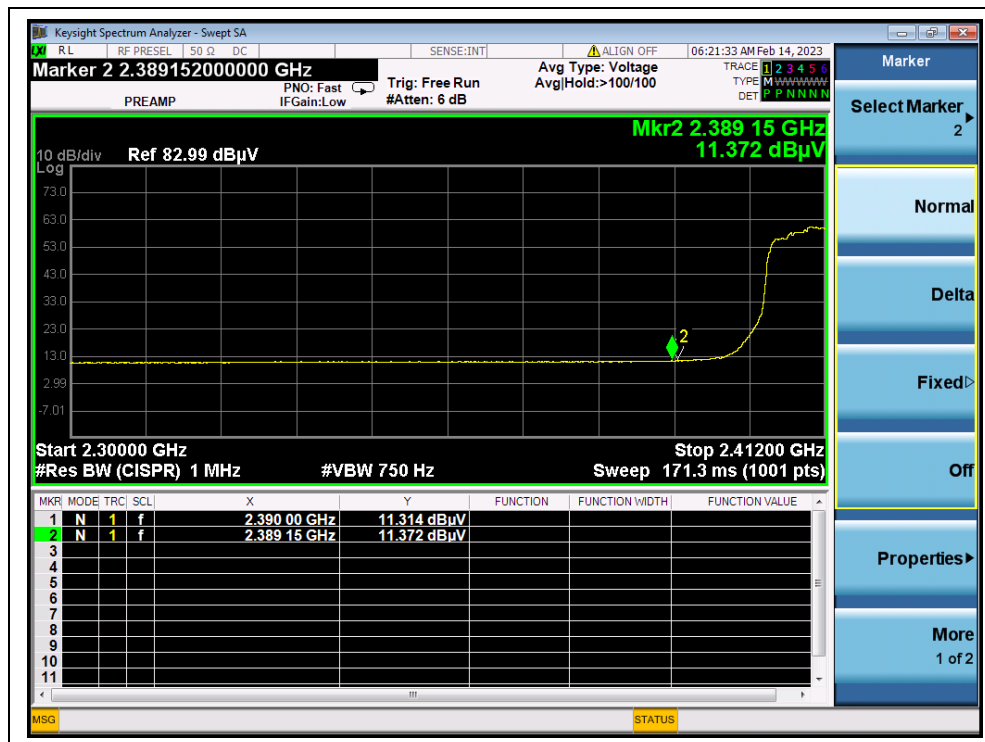


802.11g Mode

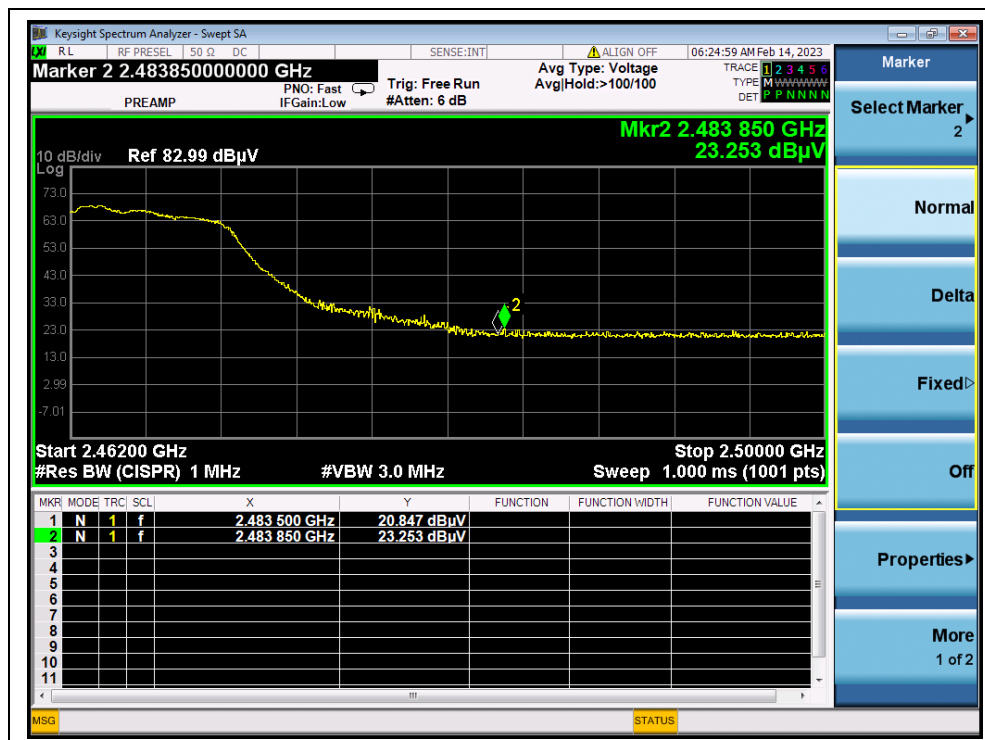
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2384.78	PK	22.78	6.74	27.20	56.72	74	PASS
1	2389.15	AV	11.37	6.74	27.20	45.31	54	PASS
11	2483.85	PK	23.25	6.74	27.20	57.19	74	PASS
11	2483.50	AV	10.90	6.74	27.20	44.84	54	PASS



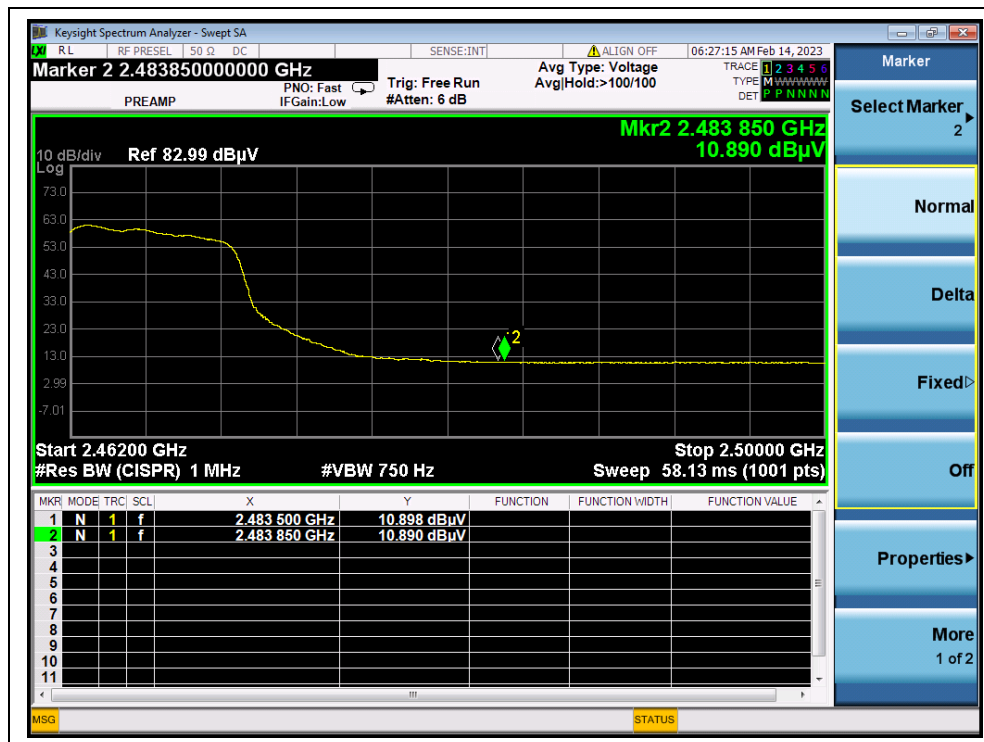
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

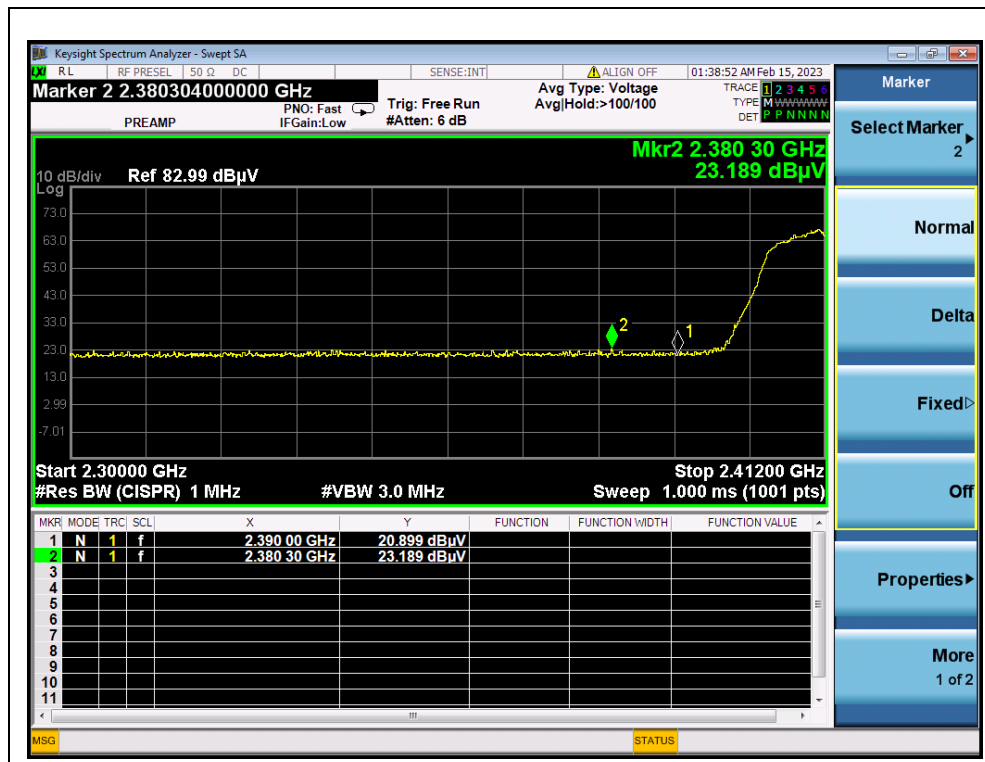


(AVERAGE, Channel 11, 802.11g)

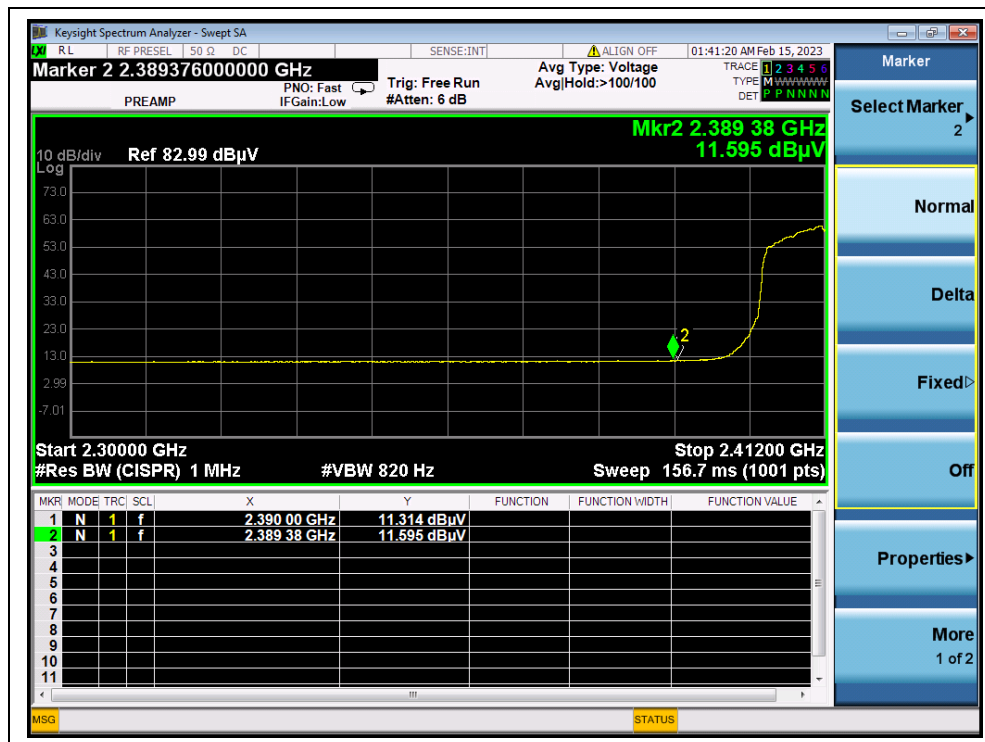


802.11n (HT20) Mode

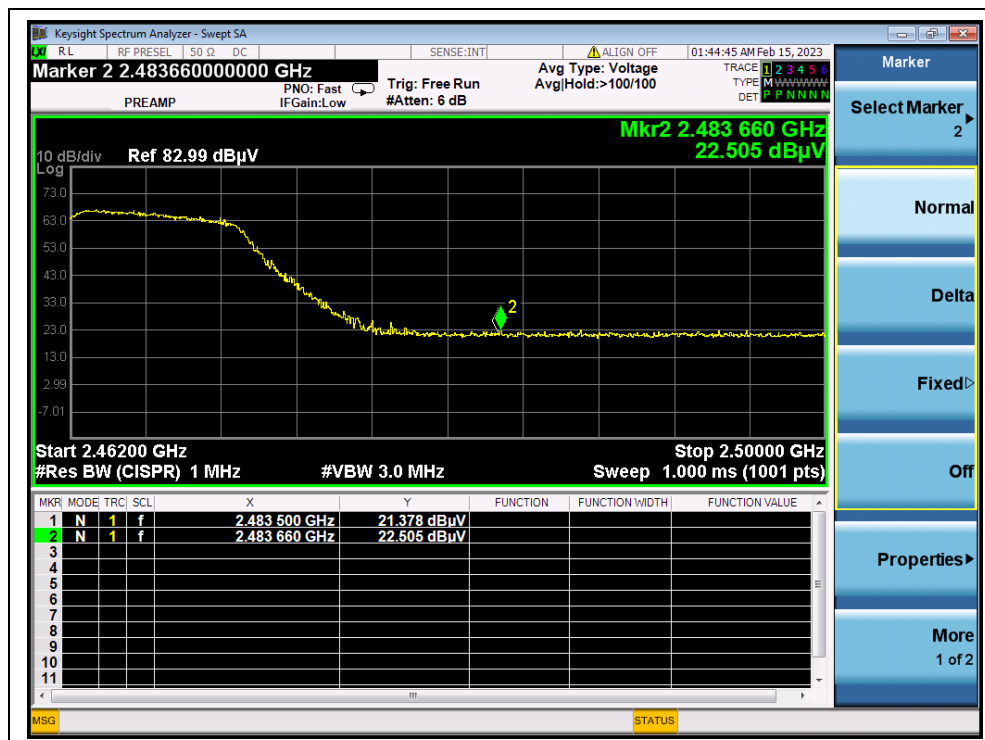
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2380.30	PK	23.19	6.74	27.20	57.13	74	PASS
1	2389.38	AV	11.60	6.74	27.20	45.54	54	PASS
11	2483.66	PK	22.51	6.74	27.20	56.45	74	PASS
11	2484.65	AV	11.19	6.74	27.20	45.13	54	PASS



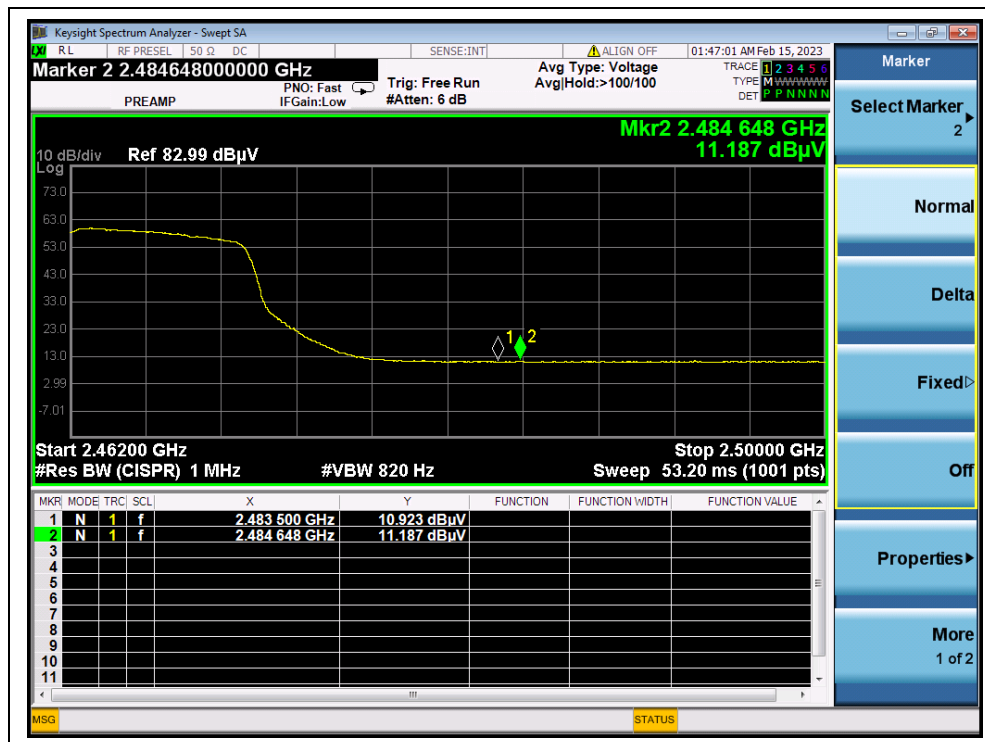
(PEAK, Channel 1, 802.11n (HT20))



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



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

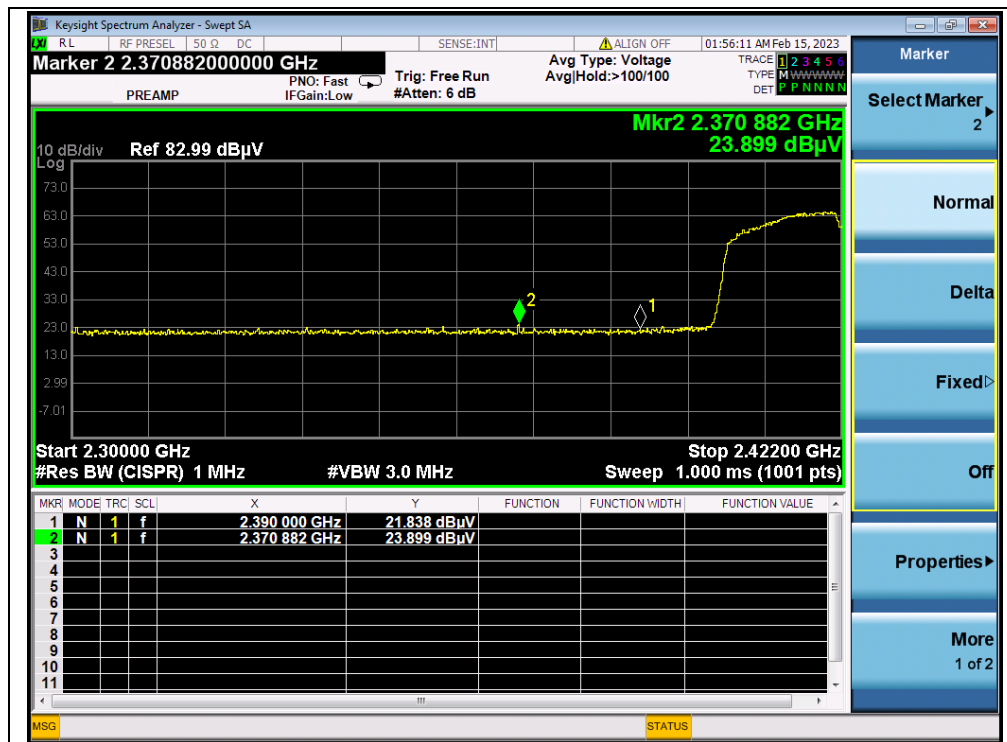


(AVERAGE, Channel 11, 802.11n (HT20))

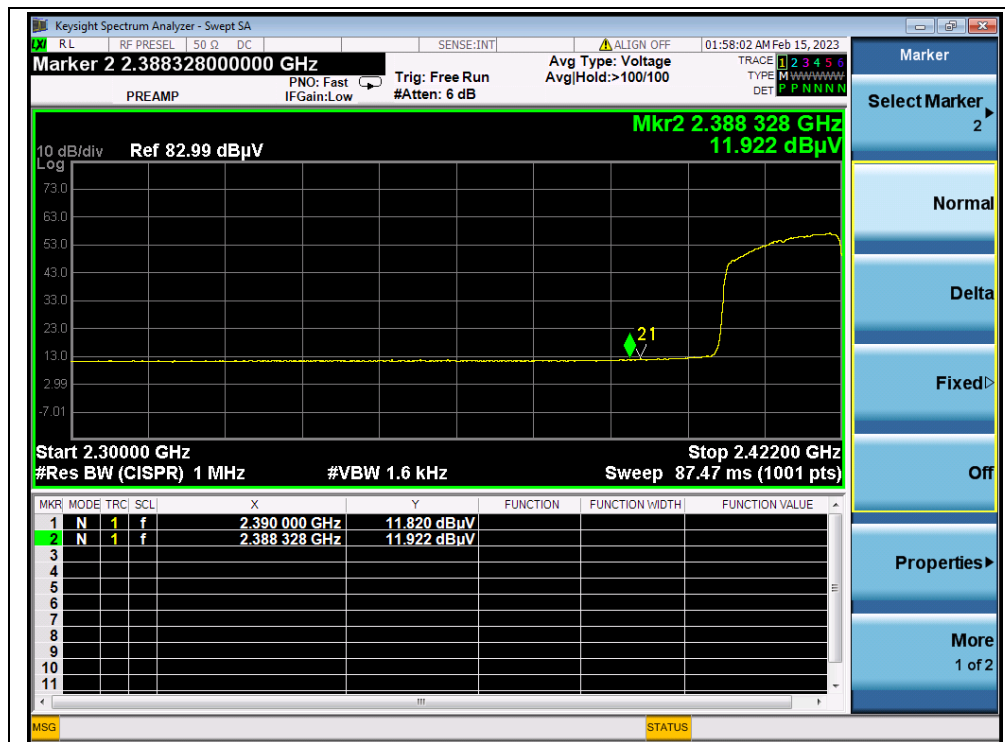


802.11n (HT40) Mode

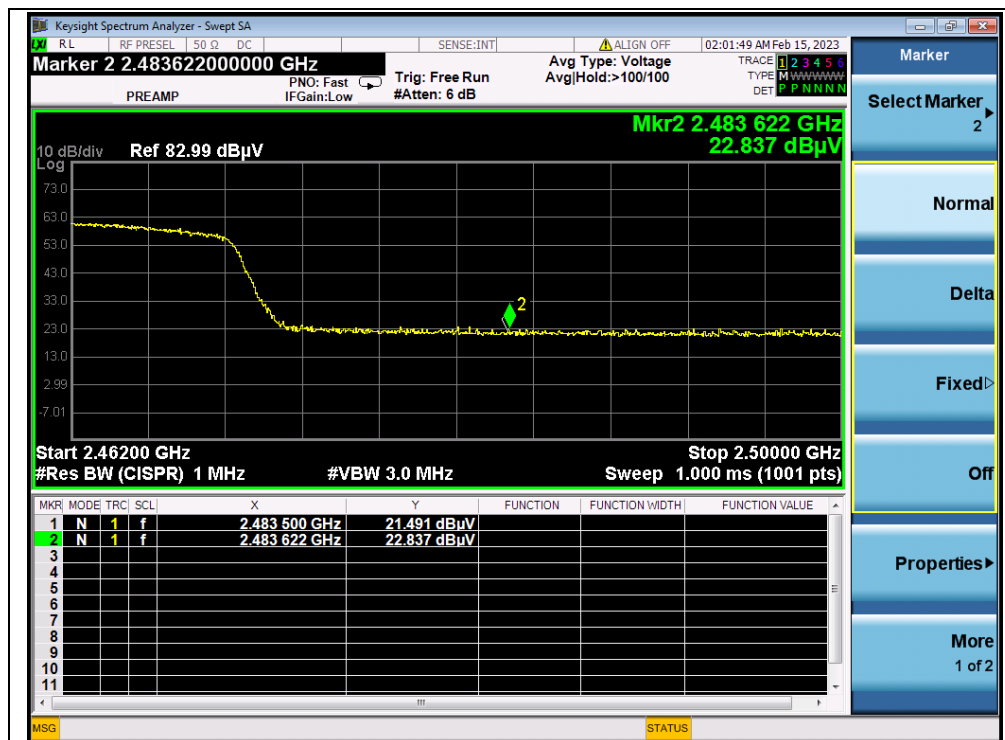
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2370.88	PK	23.90	6.74	27.20	57.84	74	PASS
3	2388.33	AV	11.92	6.74	27.20	45.86	54	PASS
9	2483.62	PK	22.84	6.74	27.20	56.78	74	PASS
9	2483.89	AV	11.83	6.74	27.20	45.77	54	PASS



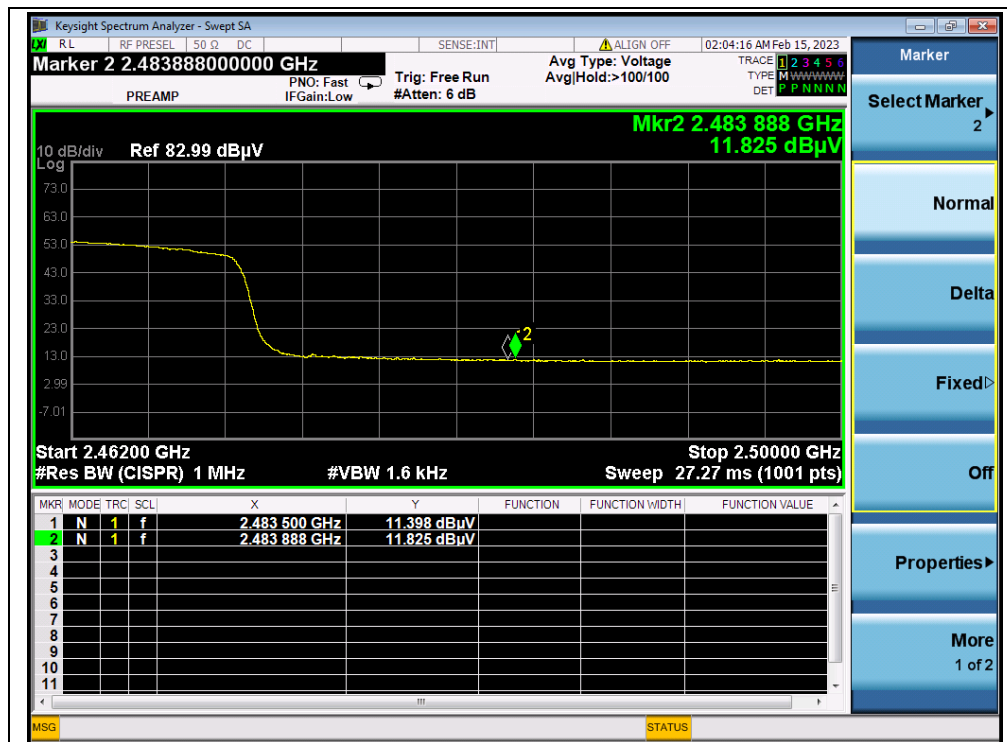
(PEAK, Channel 3, 802.11n (HT40))



(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:

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

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.

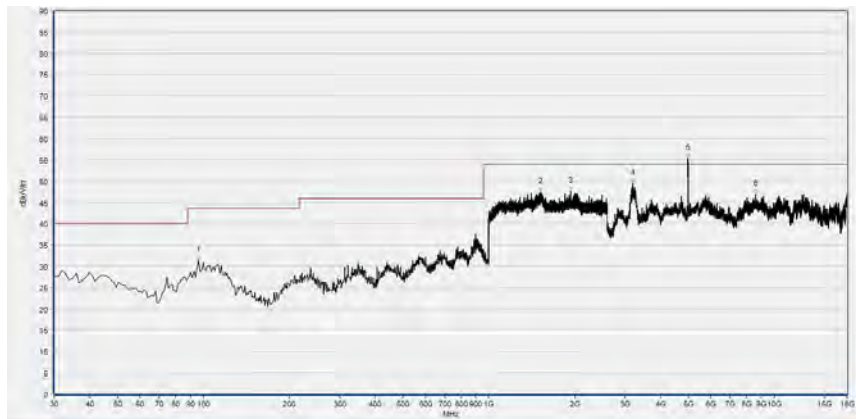
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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



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
95.960	31.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1520.533	47.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1939.200	47.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3197.520	49.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4990.080	55.31	N/A	38.05	74.00	N/A	54.00	Horizontal	PASS
8624.480	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

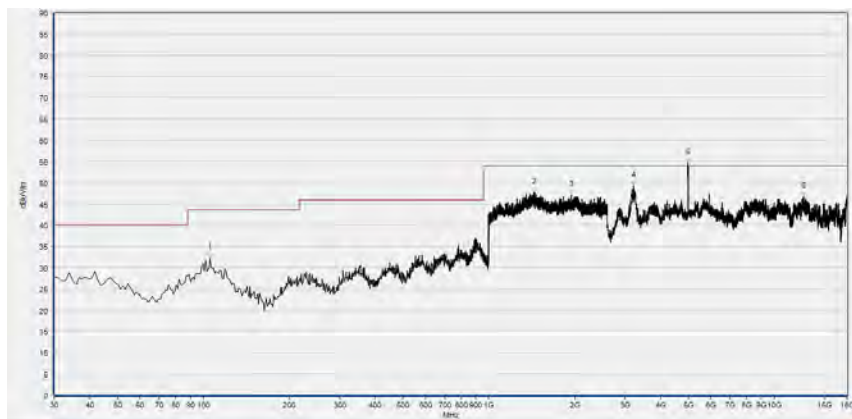


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	30.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1345.067	48.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2407.467	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3166.720	47.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4977.760	55.51	N/A	35.79	74.00	N/A	54.00	Vertical	PASS
7900.680	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

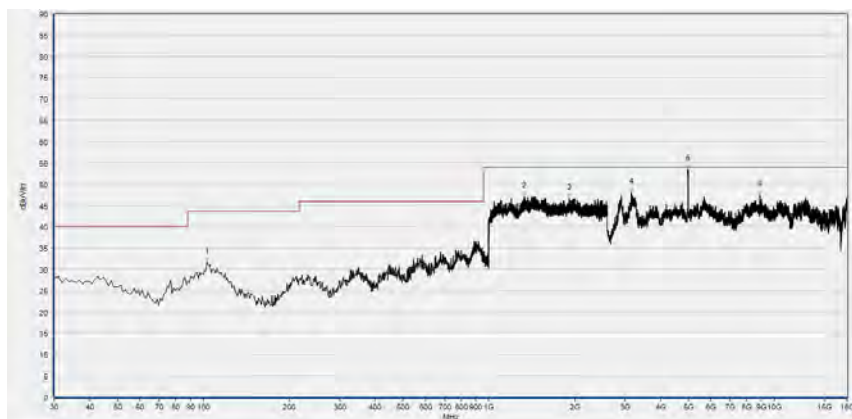


Plot for Channel 6



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
105.660	32.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1442.133	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1942.400	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3219.080	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4977.760	54.59	N/A	35.78	74.00	N/A	54.00	Horizontal	PASS
12668.520	46.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

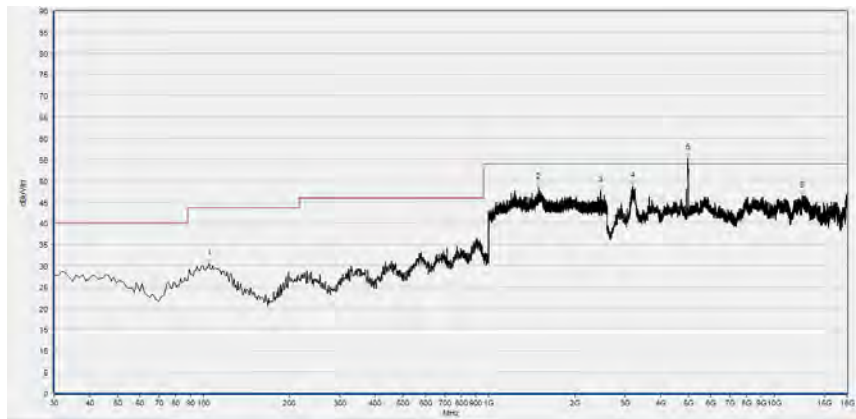


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1328.000	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1915.733	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3166.720	48.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4990.080	53.50	N/A	37.90	74.00	N/A	54.00	Vertical	PASS
8892.440	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

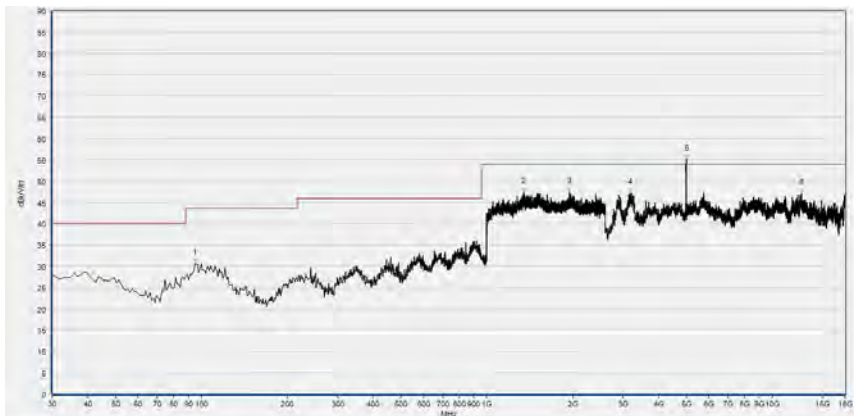


Plot for Channel 11



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
104.690	30.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1497.067	48.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2462.933	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3188.280	48.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4990.080	55.38	N/A	37.85	74.00	N/A	54.00	Horizontal	PASS
12523.760	46.44	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
94.990	30.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1348.267	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1950.400	47.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3169.800	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4996.240	55.16	N/A	37.96	74.00	N/A	54.00	Vertical	PASS
12668.520	47.11	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
100.810	30.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1421.333	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1842.133	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3249.880	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4990.080	55.32	N/A	38.33	74.00	N/A	54.00	Horizontal	PASS
11125.440	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

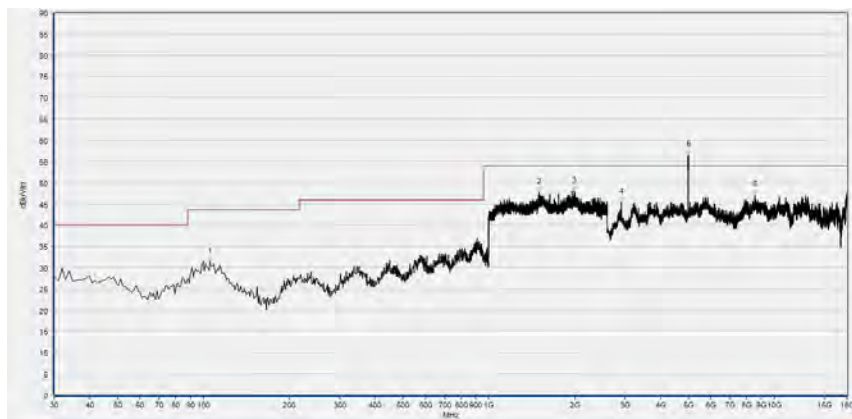


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1338.133	46.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2406.400	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3231.400	48.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4996.240	54.20	N/A	37.16	74.00	N/A	54.00	Vertical	PASS
12890.280	47.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

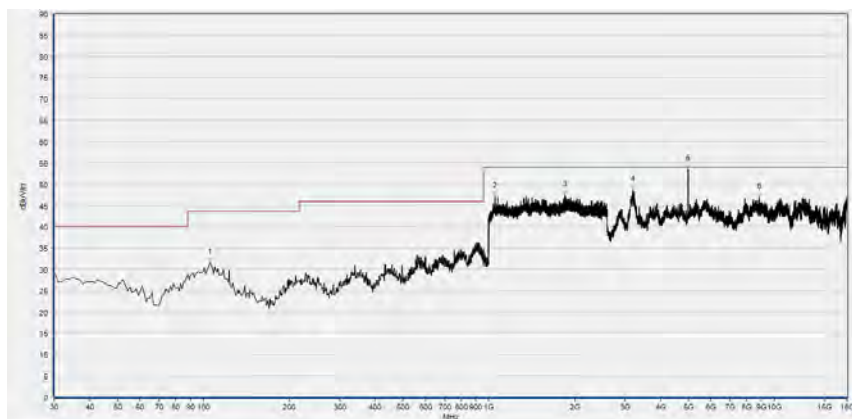


Plot for Channel 6



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
105.660	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1498.133	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1994.667	48.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2917.240	45.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4999.320	56.53	N/A	37.86	74.00	N/A	54.00	Horizontal	PASS
8575.200	47.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

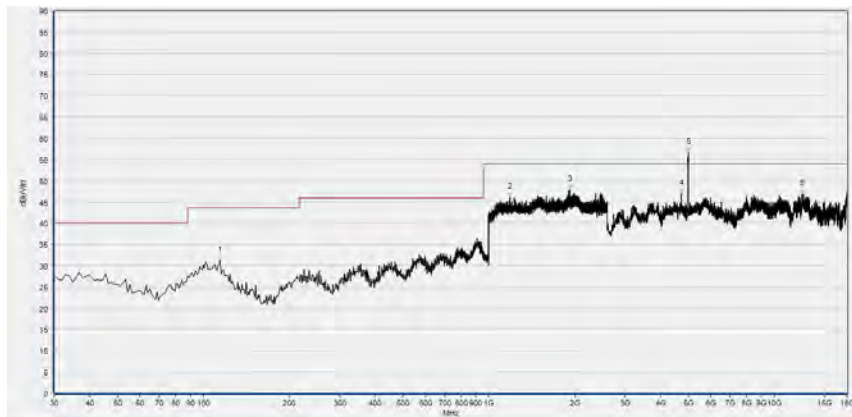


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1053.333	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1842.667	47.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3188.280	48.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4993.160	53.43	N/A	37.26	74.00	N/A	54.00	Vertical	PASS
8837.000	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

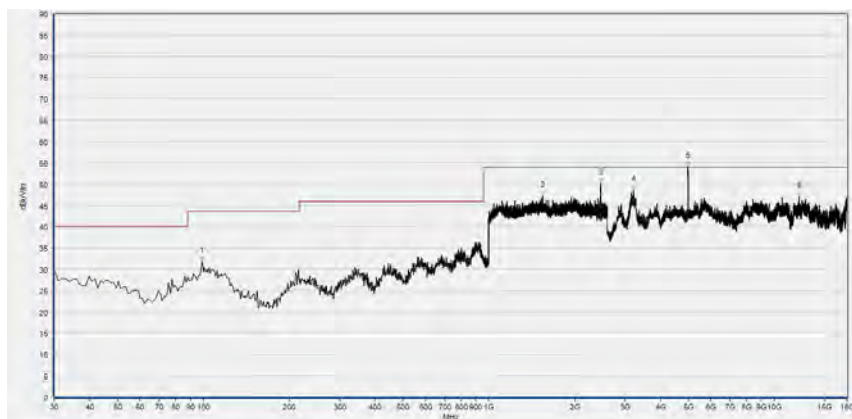


Plot for Channel 11



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
114.390	31.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1185.600	46.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1922.667	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4728.280	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4999.320	56.65	N/A	37.46	74.00	N/A	54.00	Horizontal	PASS
12526.840	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1548.267	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2462.933	50.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3209.840	48.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4990.080	54.10	N/A	37.31	74.00	N/A	54.00	Vertical	PASS
12206.520	47.09	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



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	30.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1555.733	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1995.200	49.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3240.640	45.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4987.000	55.28	N/A	38.38	74.00	N/A	54.00	Horizontal	PASS
12166.480	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

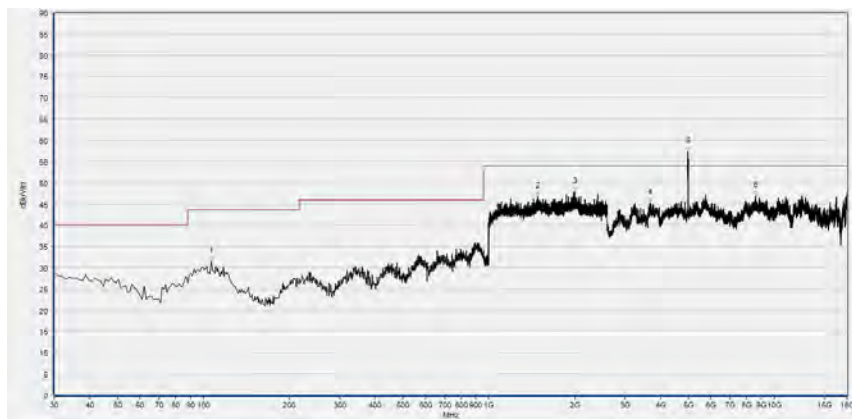


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	30.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1539.200	47.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2417.067	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3182.120	48.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4990.080	55.55	N/A	37.68	74.00	N/A	54.00	Vertical	PASS
8750.760	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

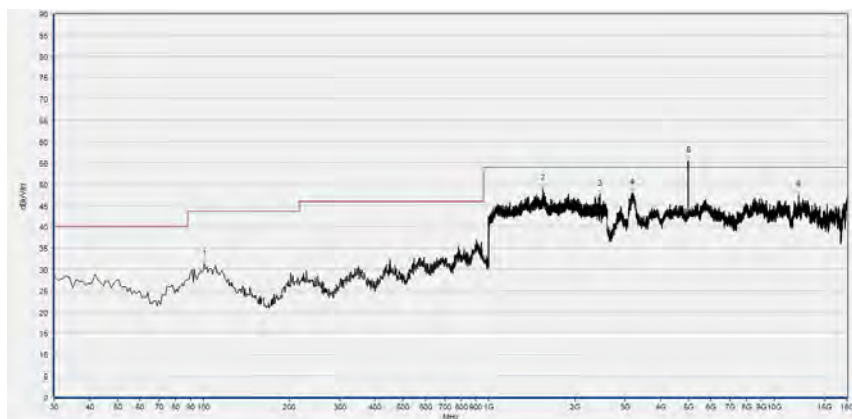


Plot for Channel 6



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	31.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1486.400	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2008.000	47.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3662.600	45.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4990.080	57.28	N/A	38.57	74.00	N/A	54.00	Horizontal	PASS
8584.440	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

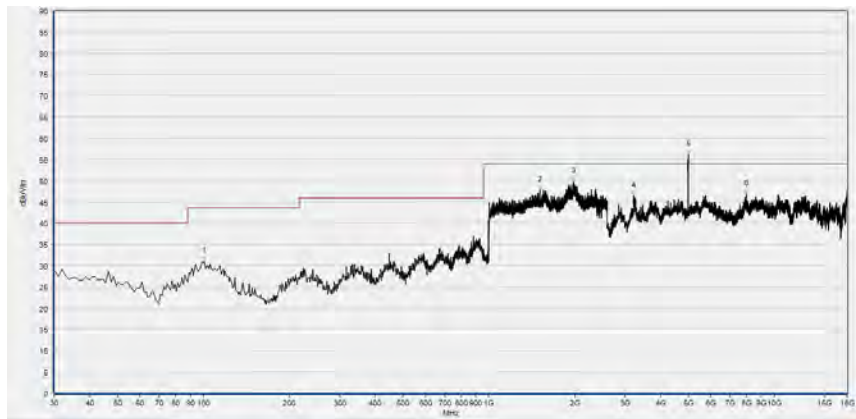
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1542.933	48.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2452.267	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3169.800	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4996.240	55.54	N/A	37.91	74.00	N/A	54.00	Vertical	PASS
12148.000	47.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

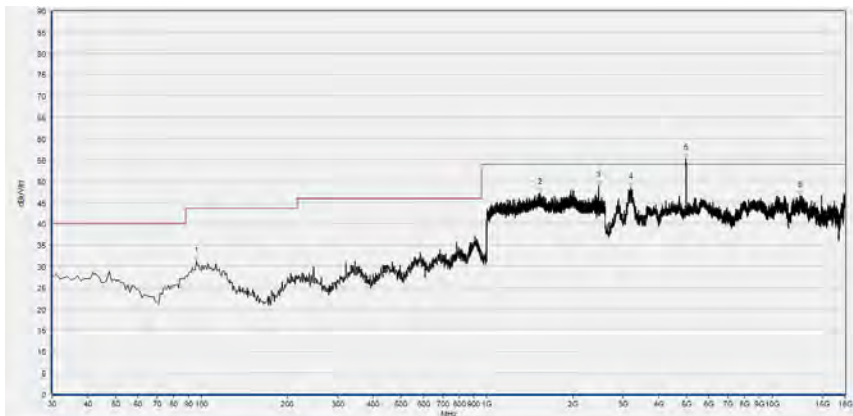
(Antenna Vertical, 30MHz to 18GHz)

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
100.810	31.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1507.200	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1975.467	49.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3212.920	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4999.320	56.07	N/A	37.64	74.00	N/A	54.00	Horizontal	PASS
8002.320	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

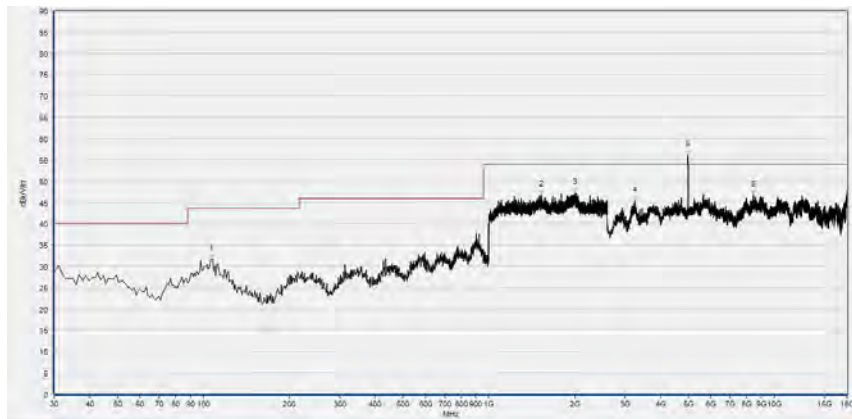


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.960	31.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1539.200	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2464.000	48.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3197.520	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4990.080	55.33	N/A	37.66	74.00	N/A	54.00	Vertical	PASS
12508.360	46.67	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
106.630	31.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1531.733	46.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2001.600	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3249.880	45.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4977.760	56.08	N/A	36.21	74.00	N/A	54.00	Horizontal	PASS
8455.080	46.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

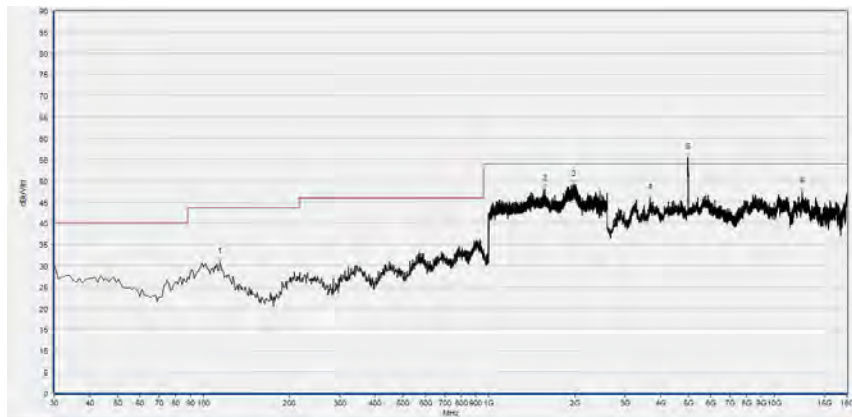
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
119.240	31.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1513.067	48.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1904.000	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3200.600	48.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4996.240	55.45	N/A	37.86	74.00	N/A	54.00	Vertical	PASS
12280.440	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

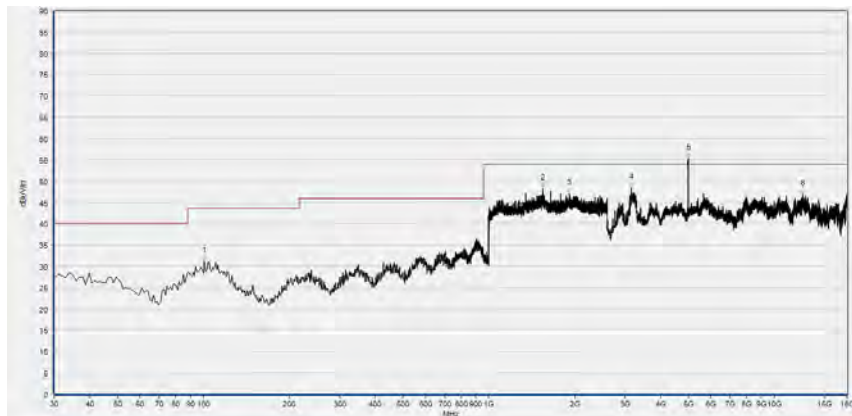
(Antenna Vertical, 30MHz to 18GHz)

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
114.390	30.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1573.867	48.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1980.267	49.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3668.760	45.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4993.160	55.45	N/A	38.43	74.00	N/A	54.00	Horizontal	PASS
12514.520	47.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

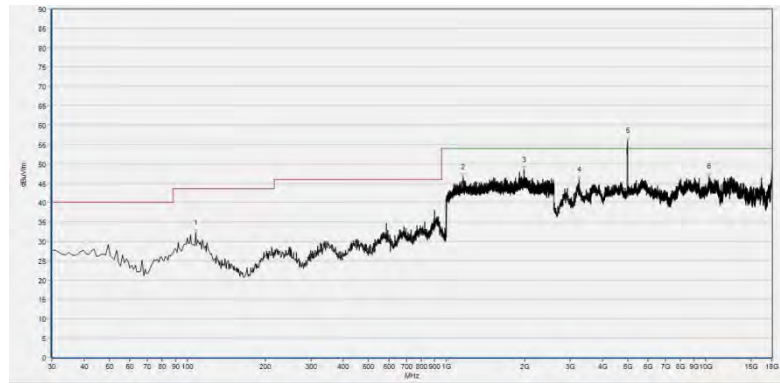


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1545.600	48.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1917.333	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3160.560	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4996.240	55.32	N/A	37.88	74.00	N/A	54.00	Vertical	PASS
12588.440	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

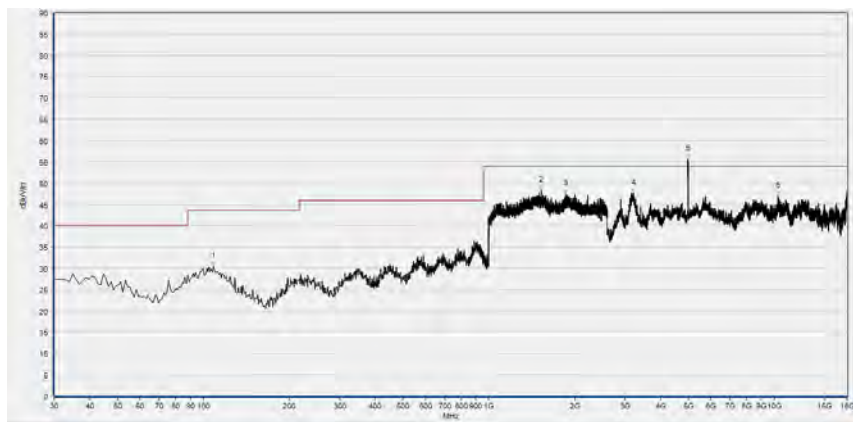


Plot for Channel 9



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
107.600	32.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1161.067	46.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1993.600	48.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3252.960	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4996.240	55.93	N/A	38.40	74.00	N/A	54.00	Horizontal	PASS
10309.240	46.68	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	30.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1529.067	48.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1857.600	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3219.080	47.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4987.000	55.71	N/A	37.40	74.00	N/A	54.00	Vertical	PASS
10321.560	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT