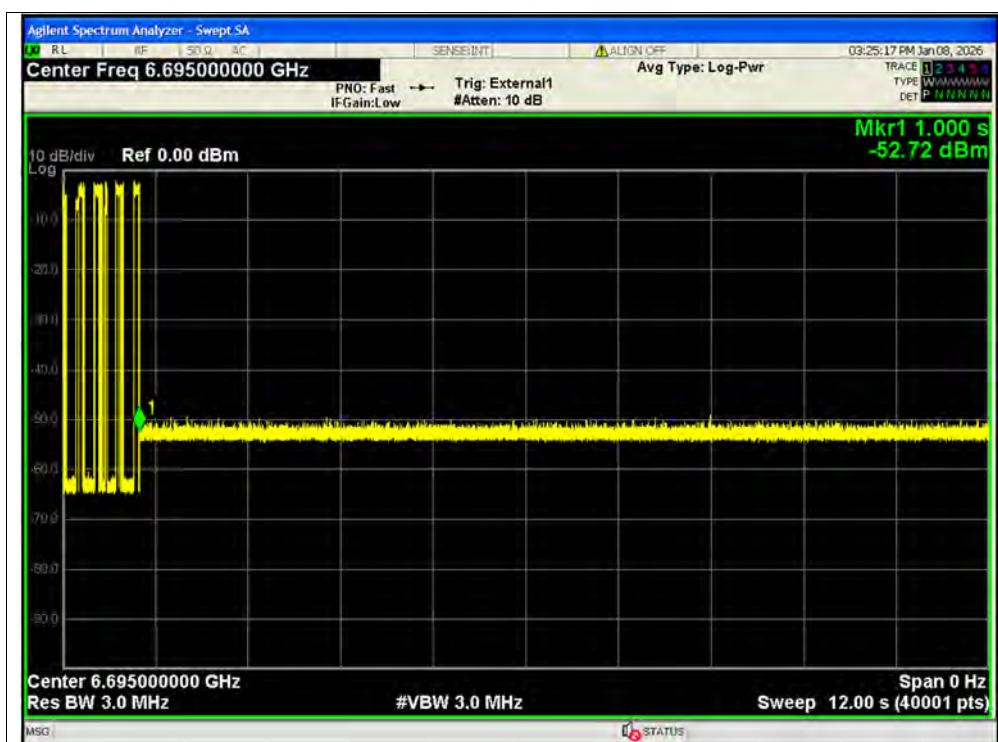
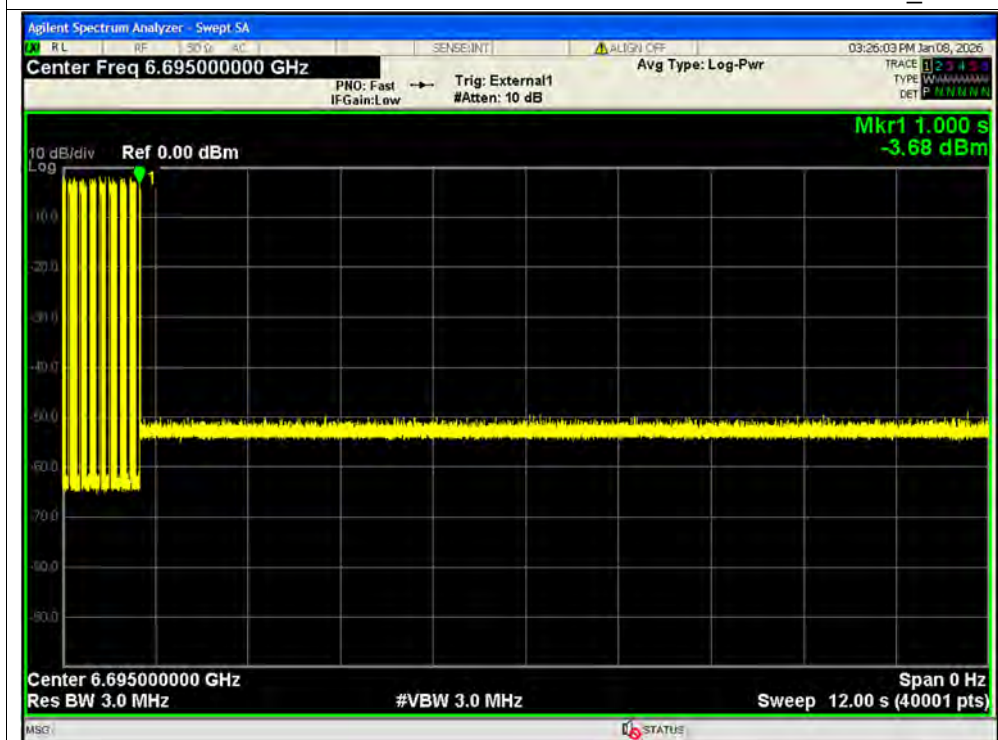
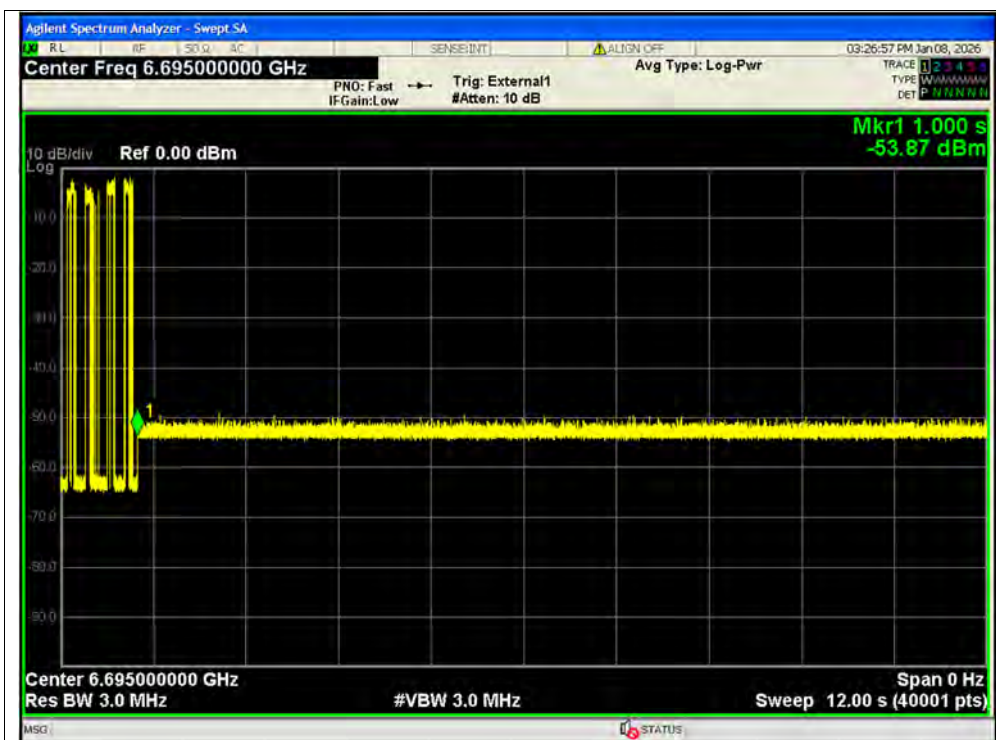




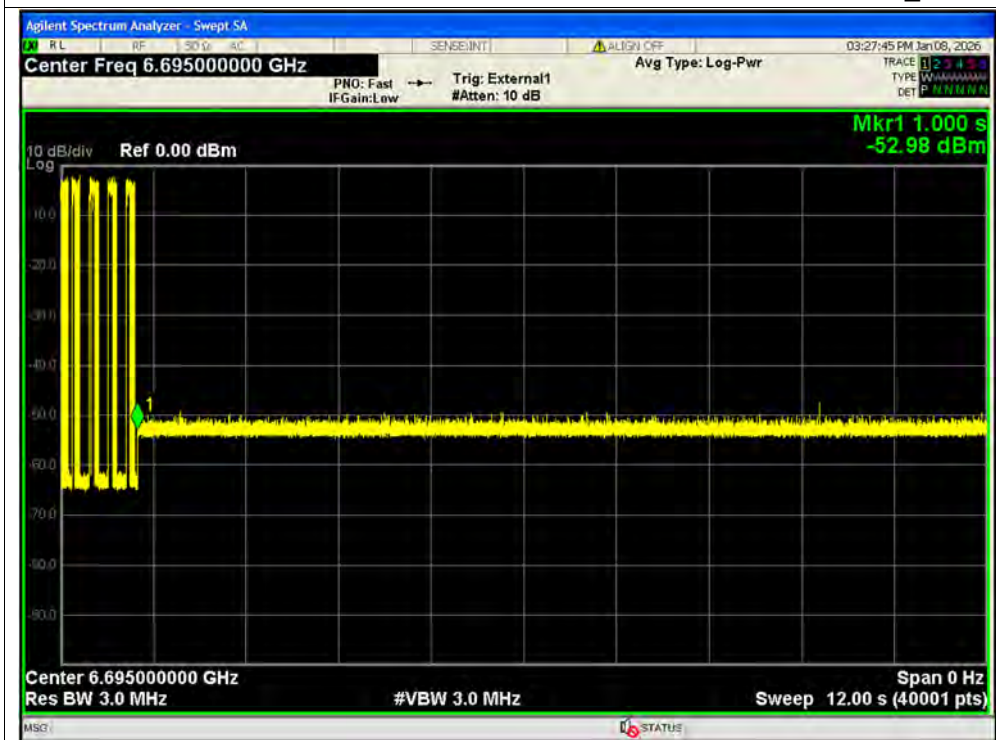
Contention Based Protocol NVNT be20 6695MHz Interfere 6695 MHz_7



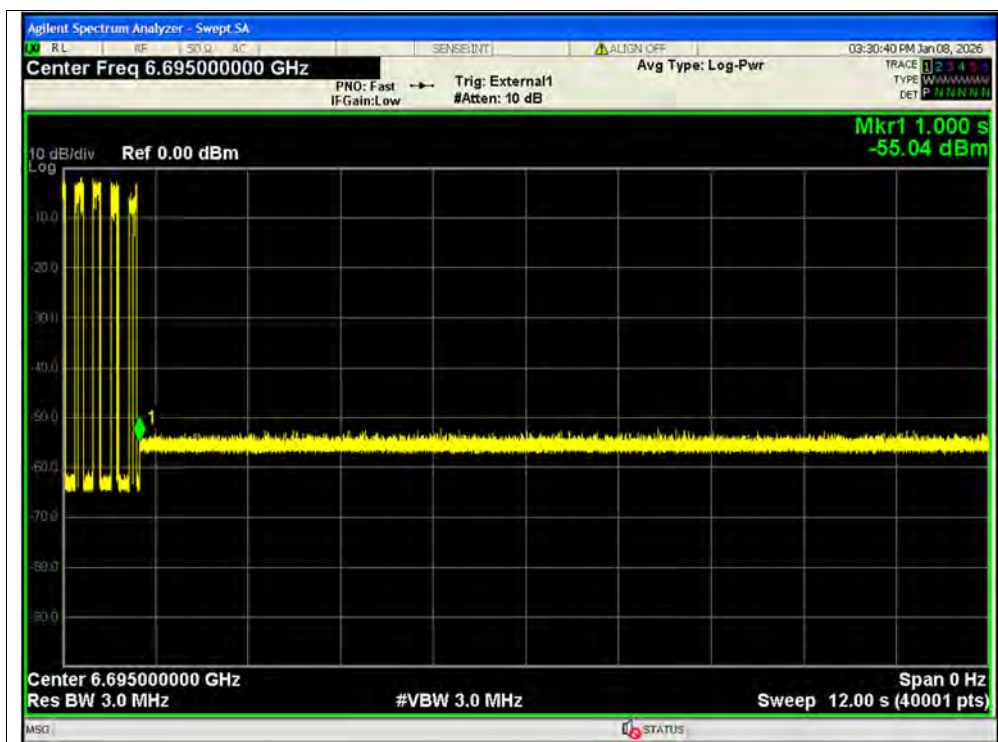
Contention Based Protocol NVNT be20 6695MHz Interfere 6695 MHz_8



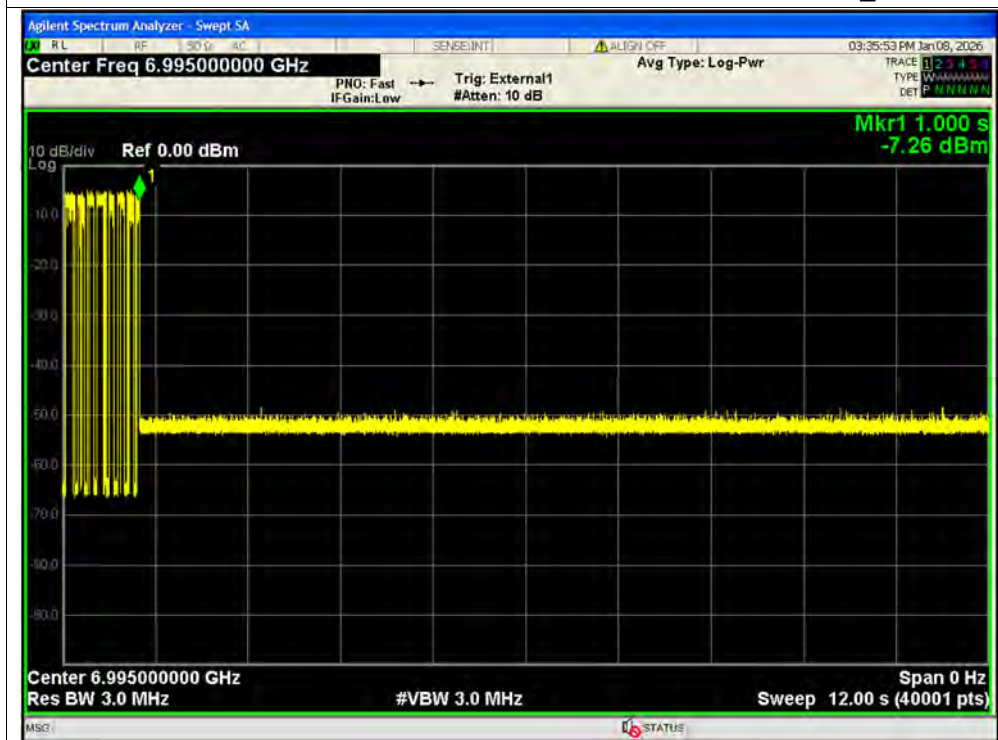
Contention Based Protocol NVNT be20 6695MHz Interfere 6695 MHz_9



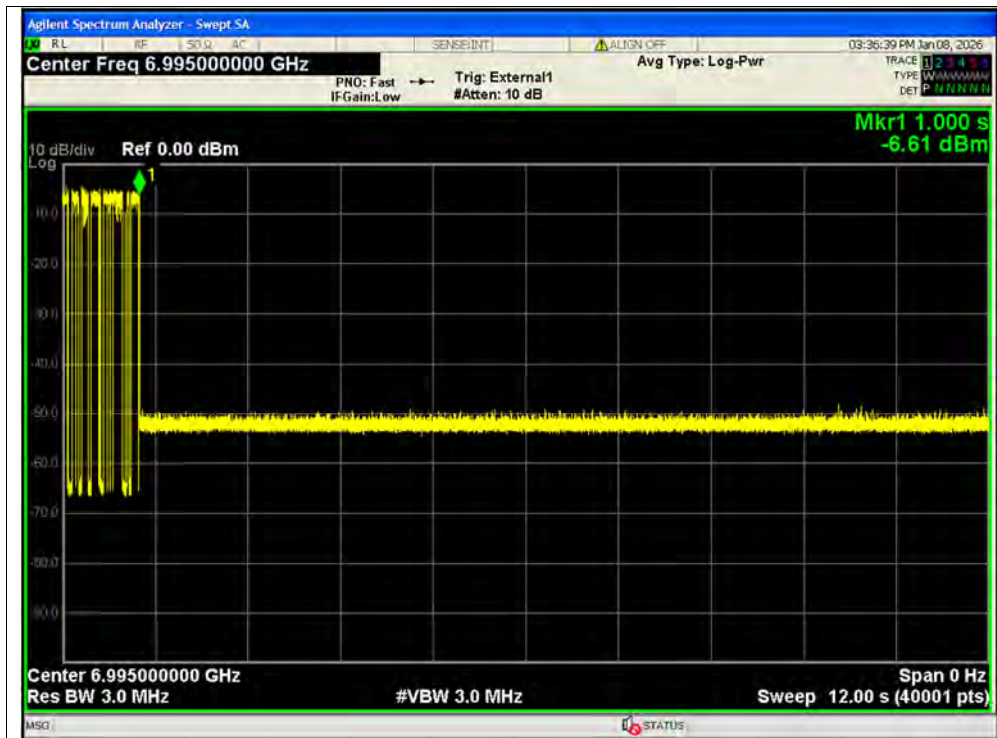
Contention Based Protocol NVNT be20 6695MHz Interfere 6695 MHz_10



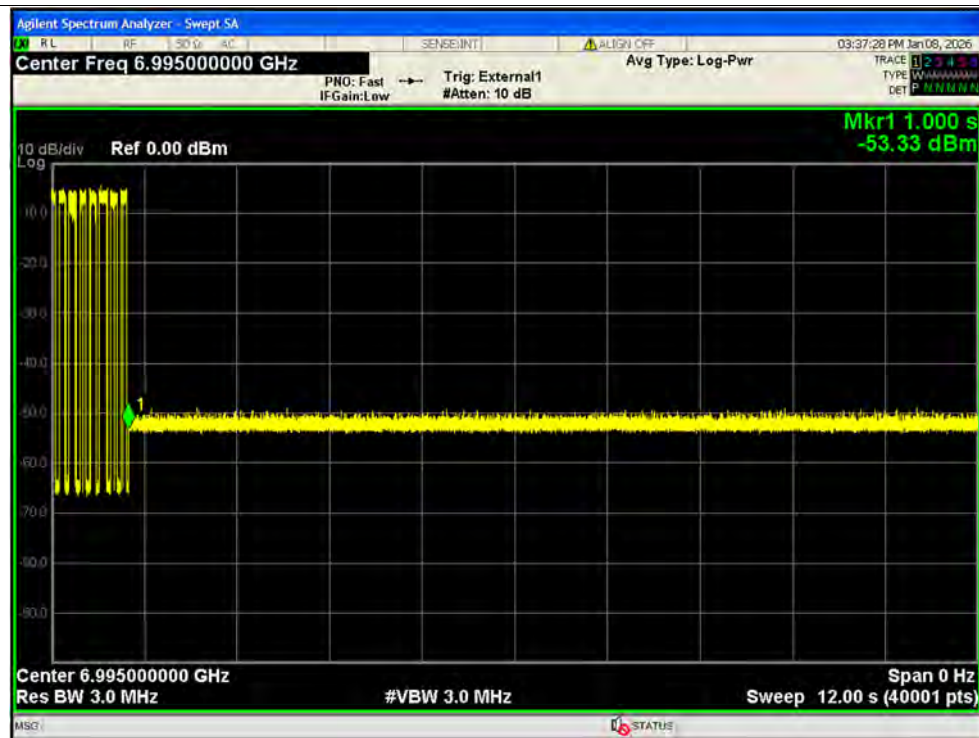
Contention Based Protocol NVNT be20 6695MHz Interfere 6695 MHz_Minimum



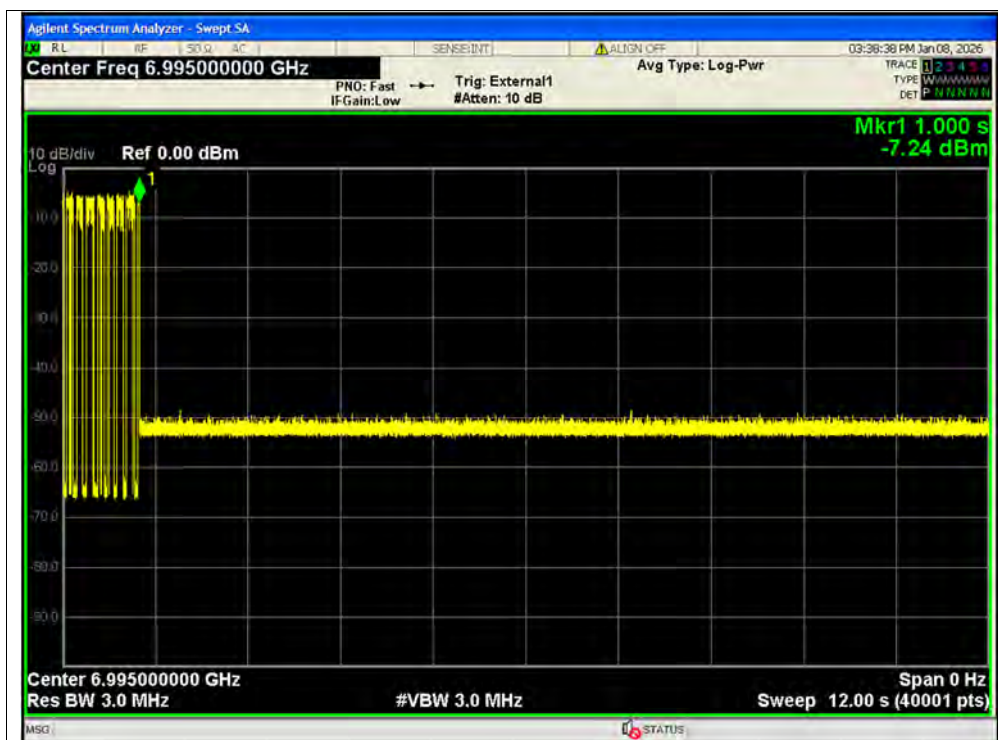
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_1



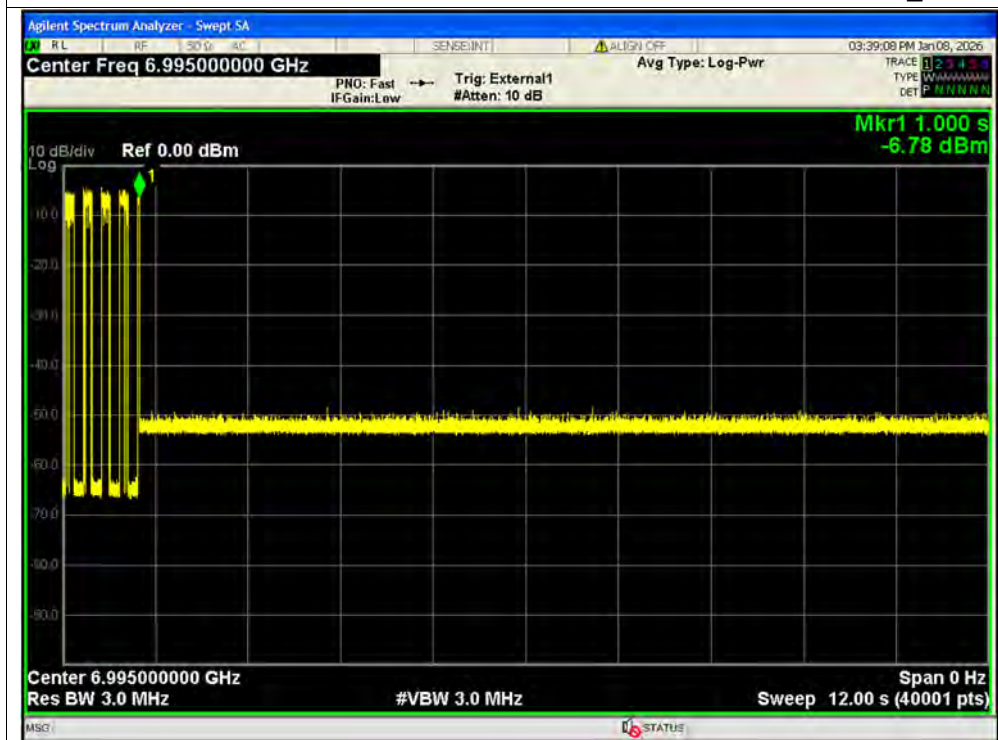
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_2



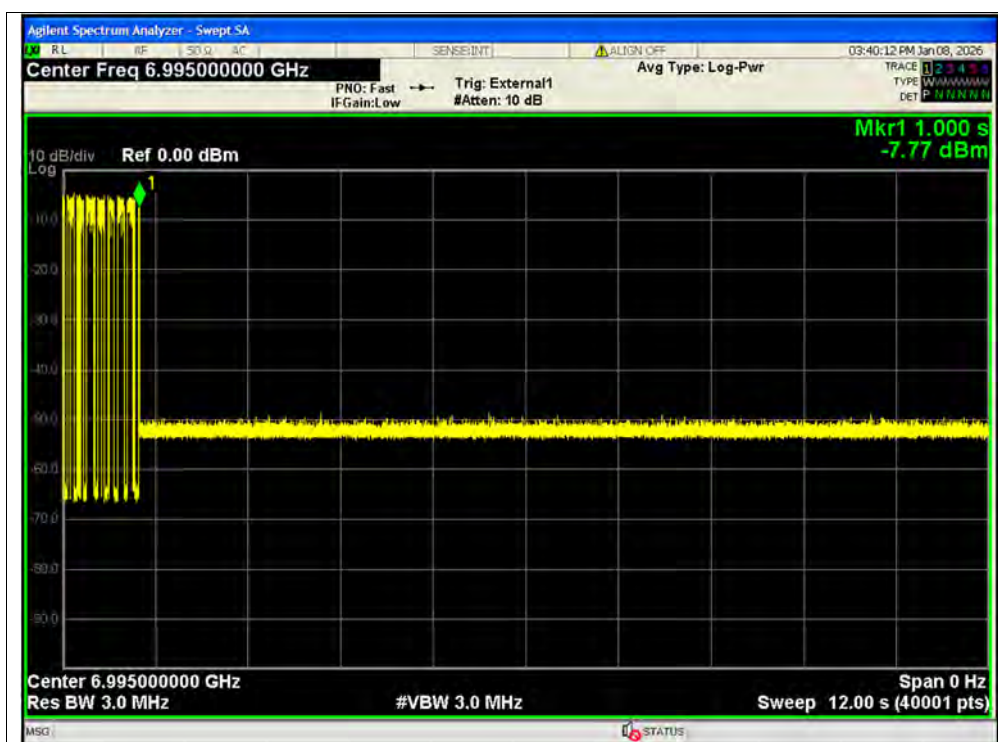
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_3



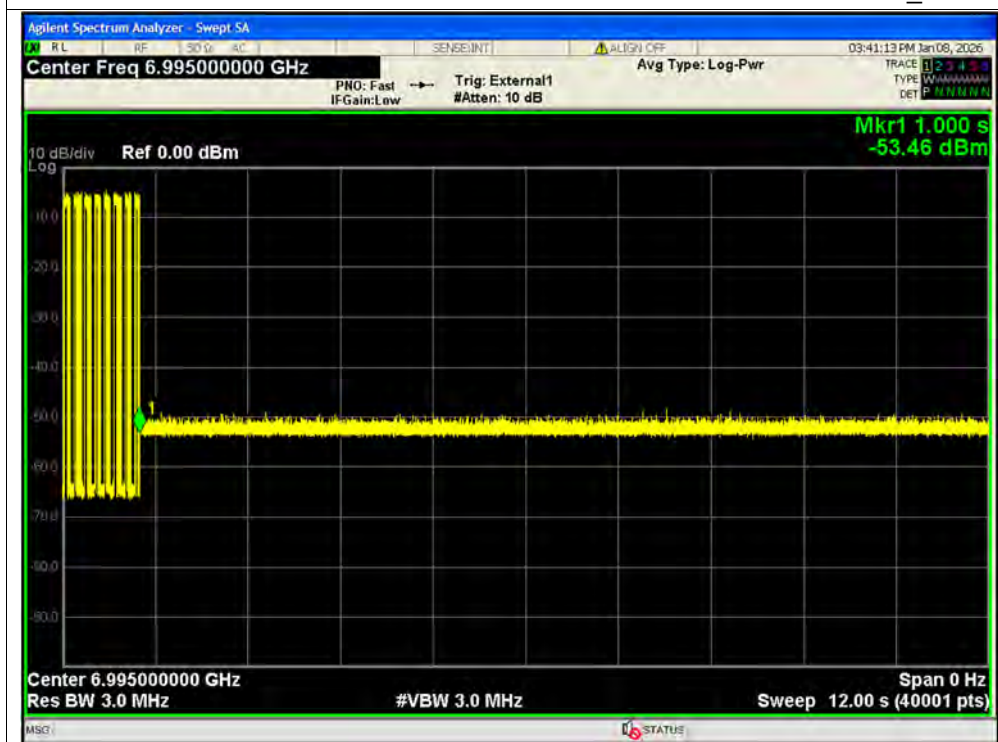
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_4



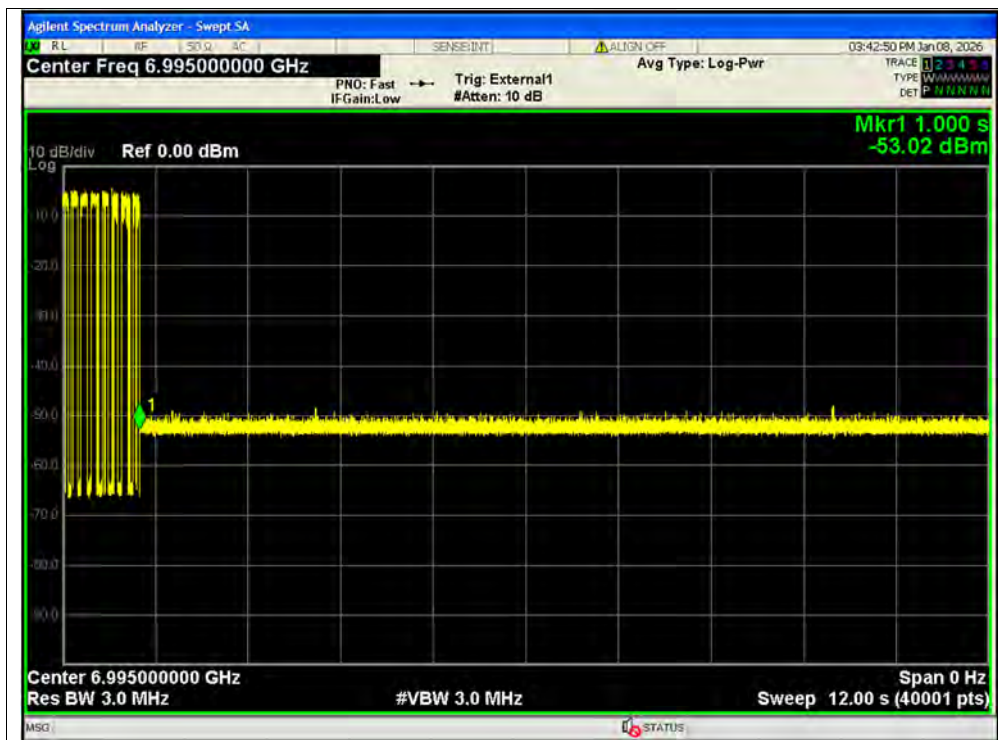
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_5



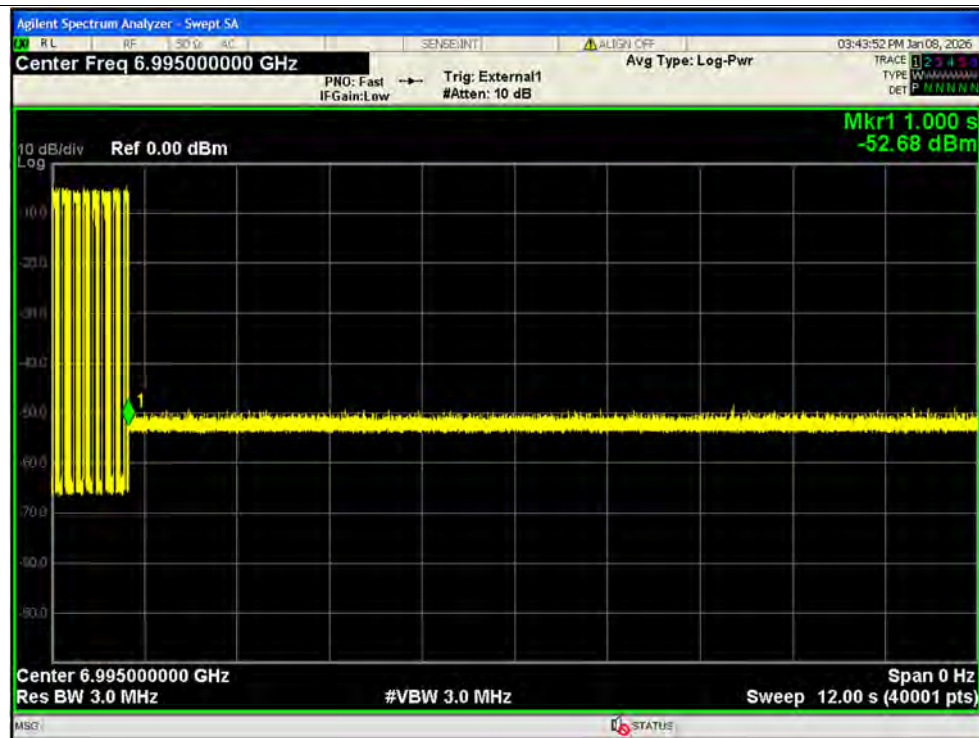
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_6



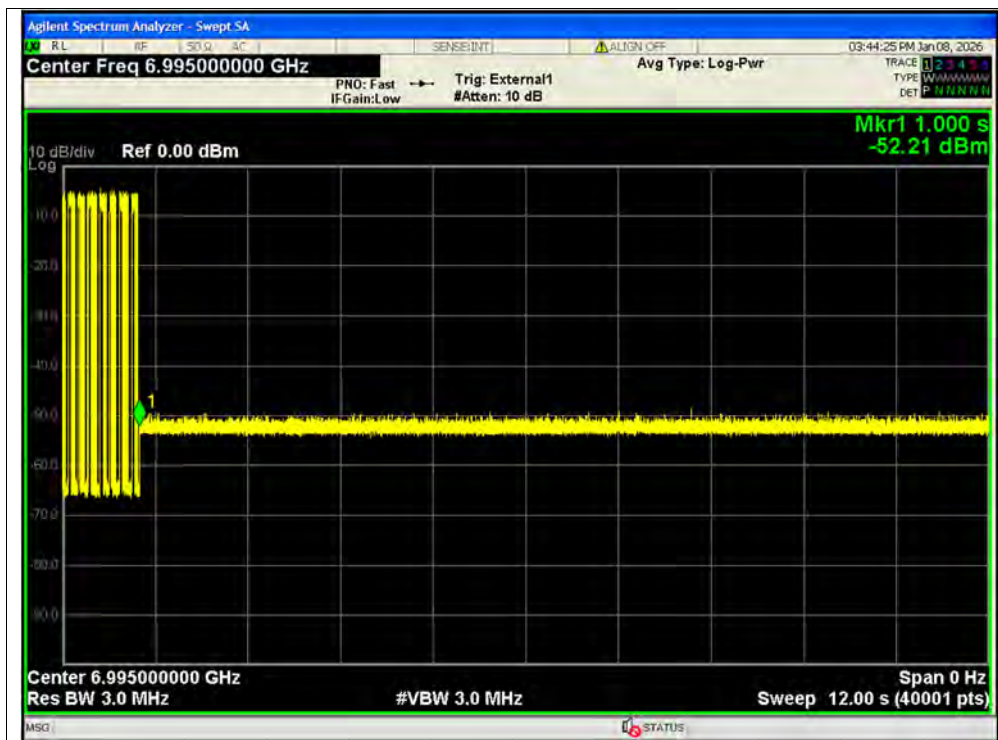
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_7



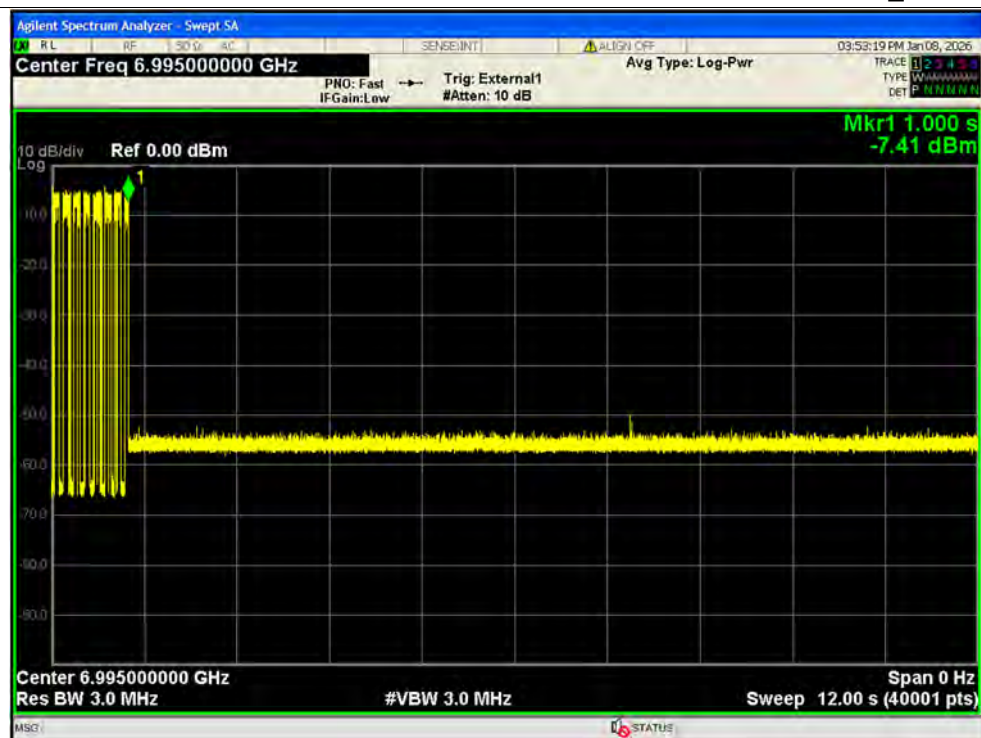
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_8



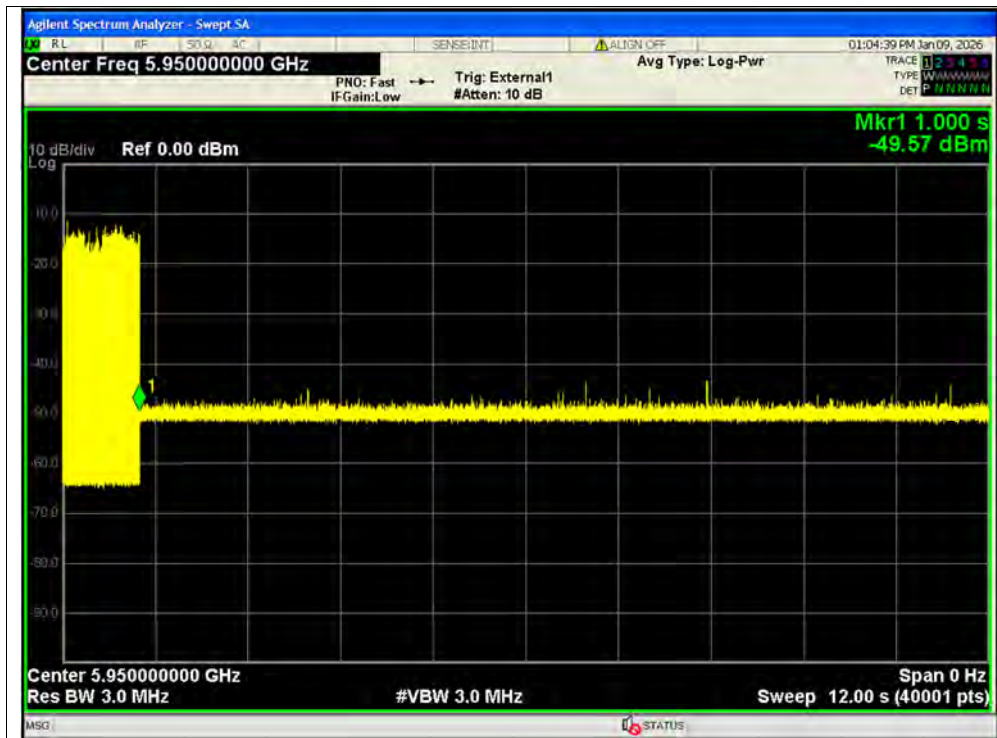
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_9



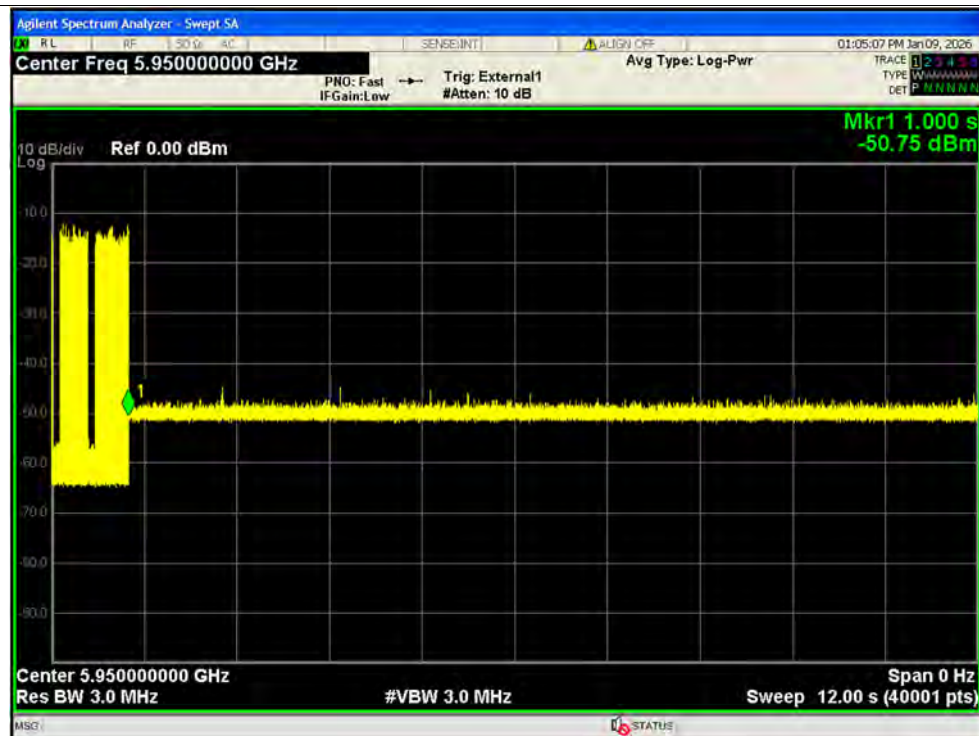
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_10



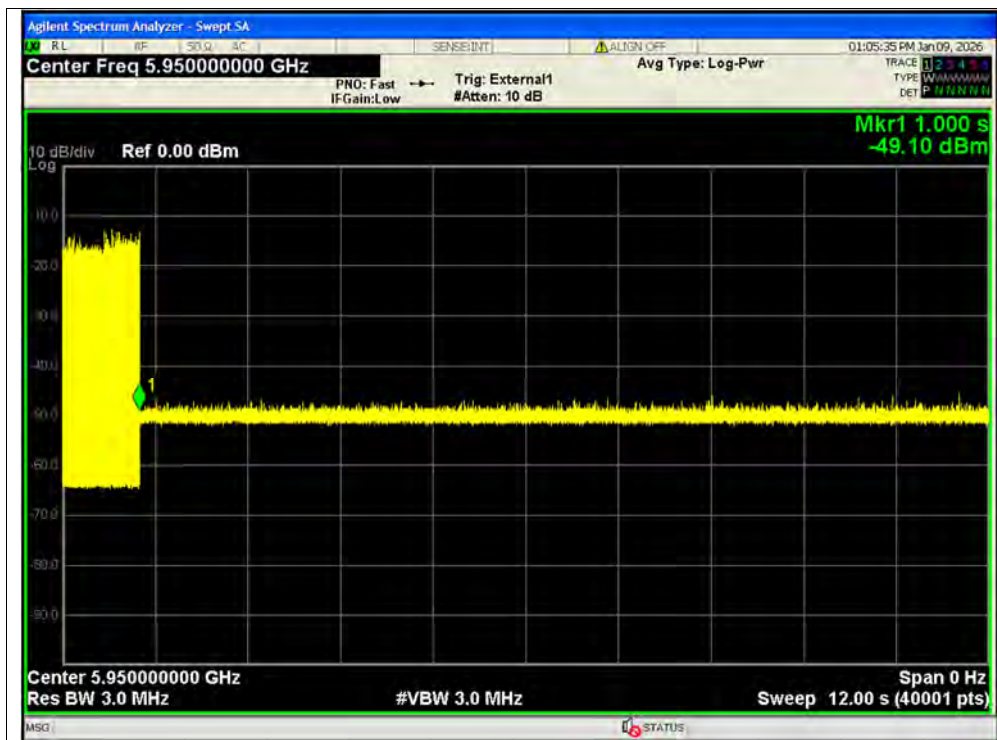
Contention Based Protocol NVNT be20 6995MHz Interfere 6995 MHz_Minimum



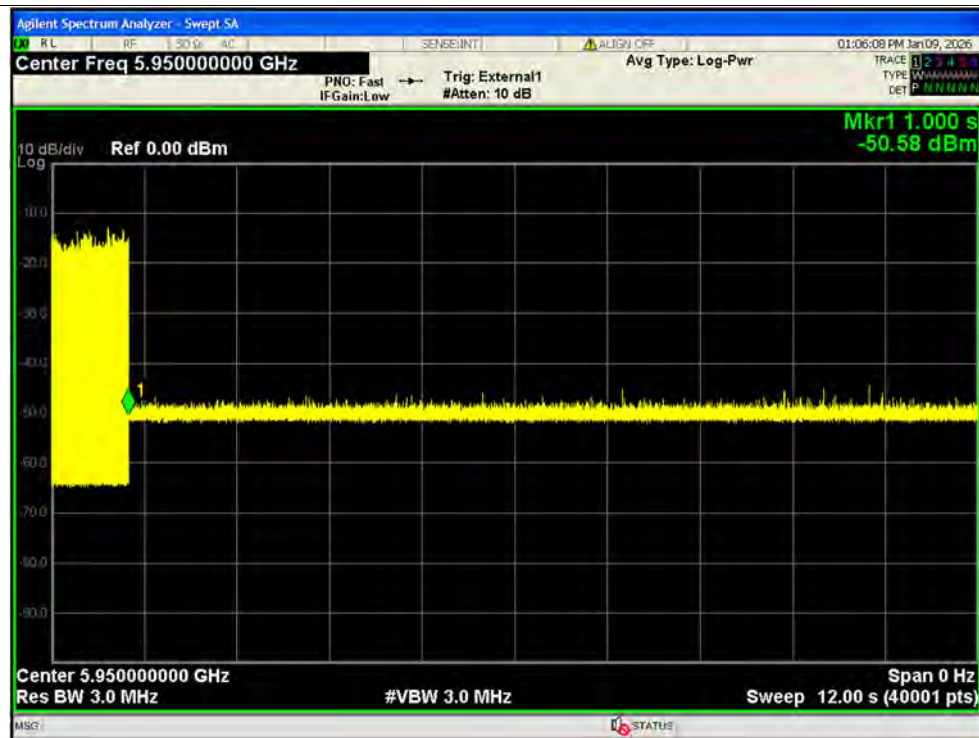
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_1



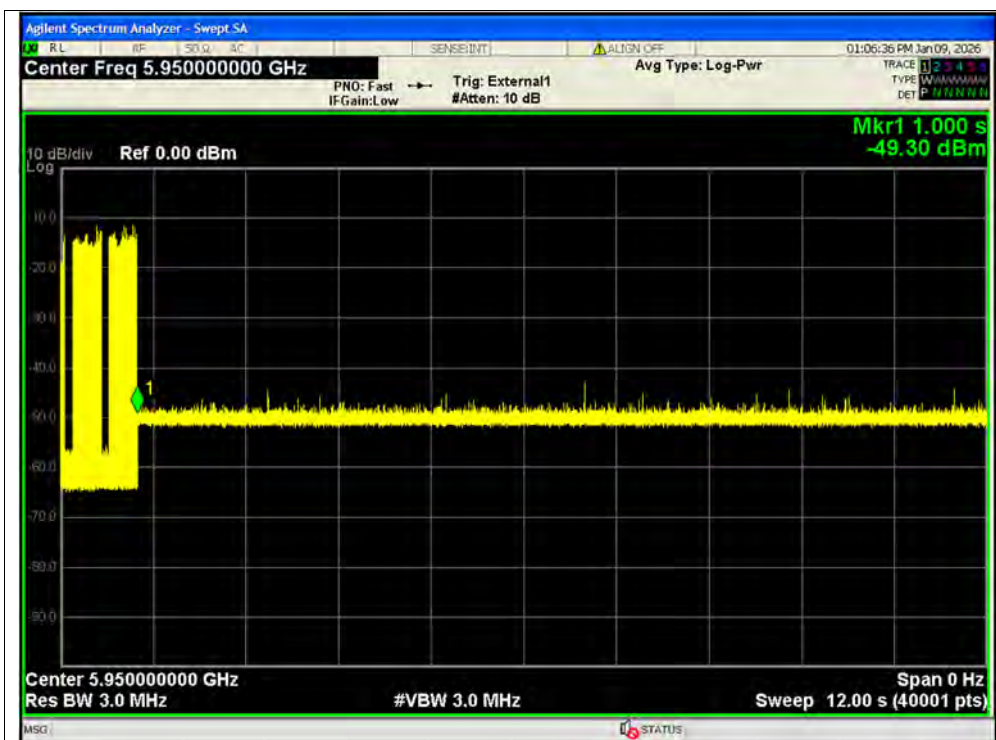
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_2



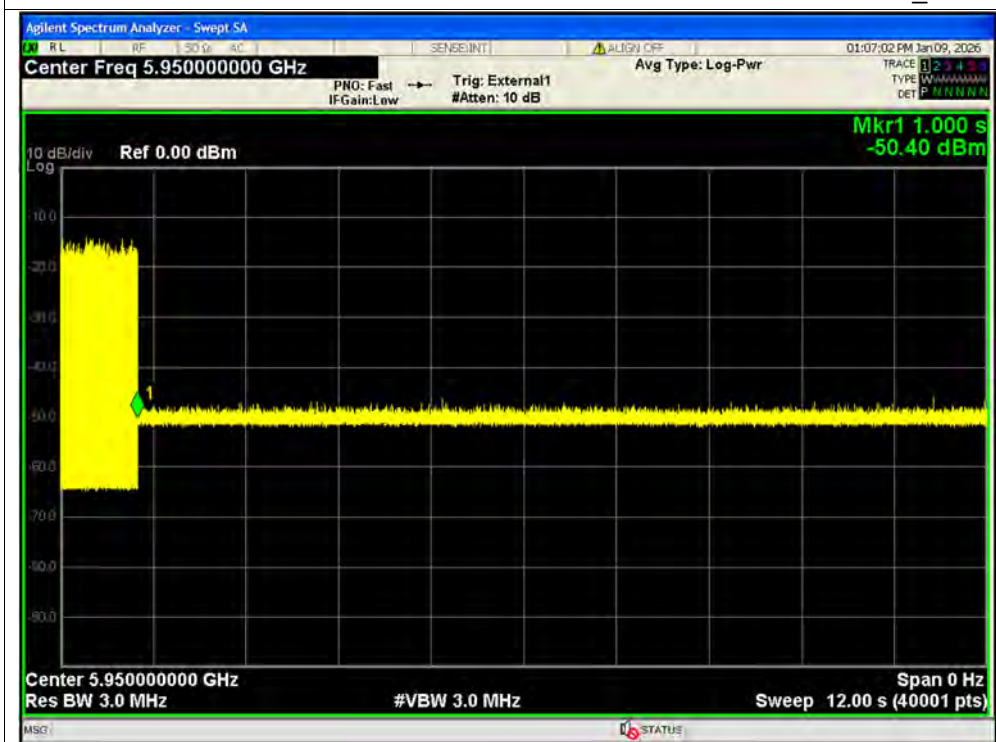
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_3



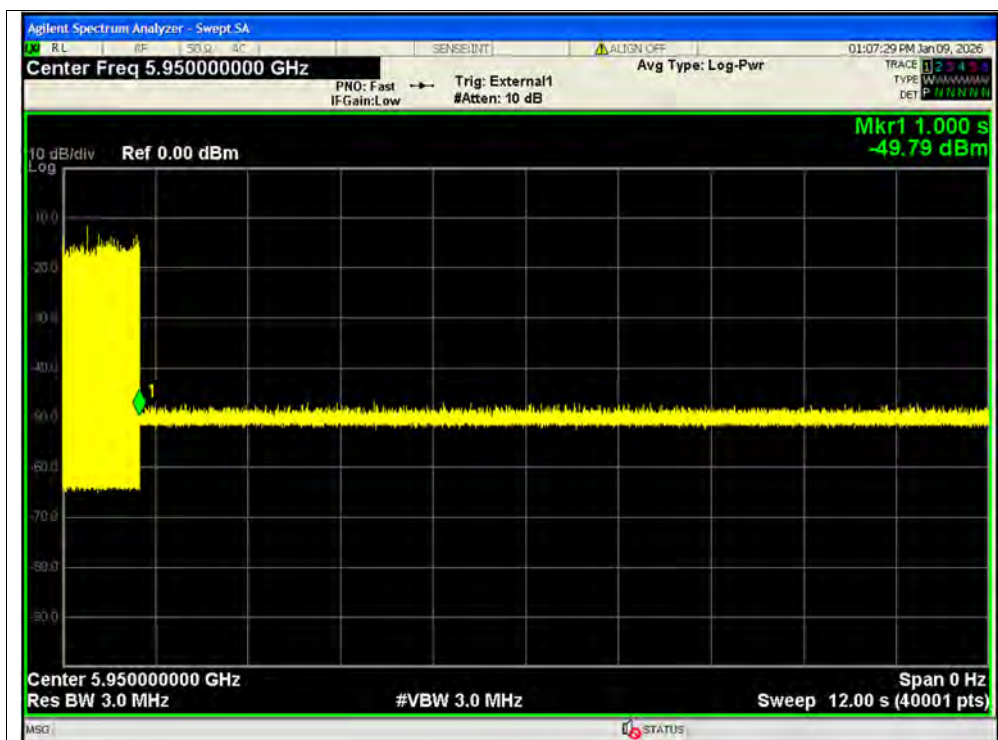
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_4



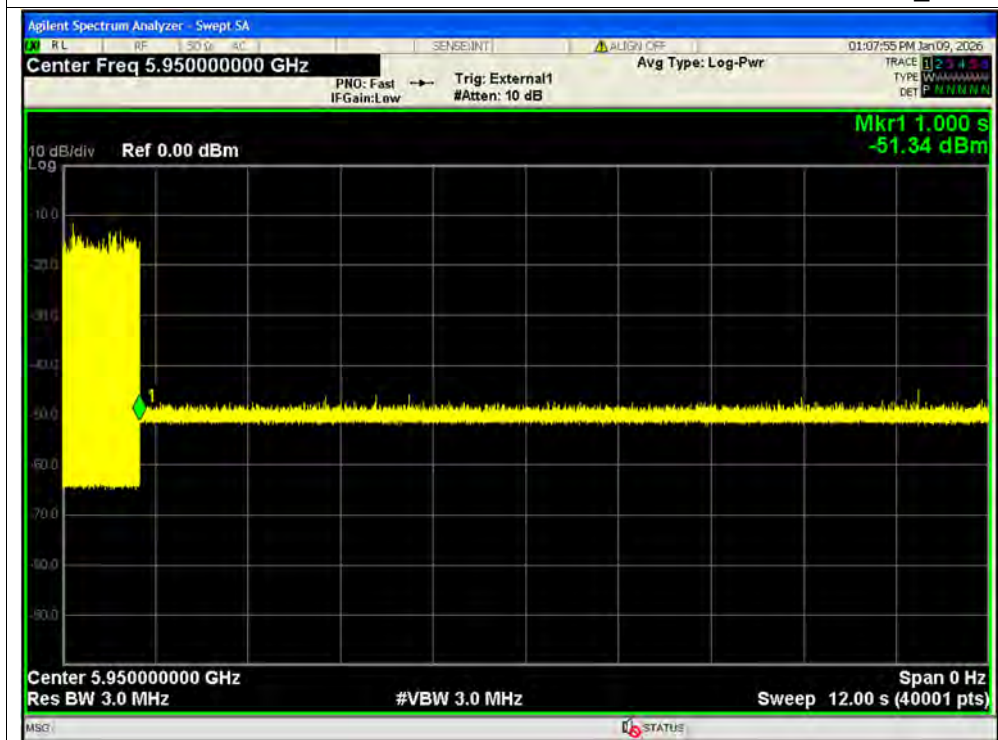
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_5



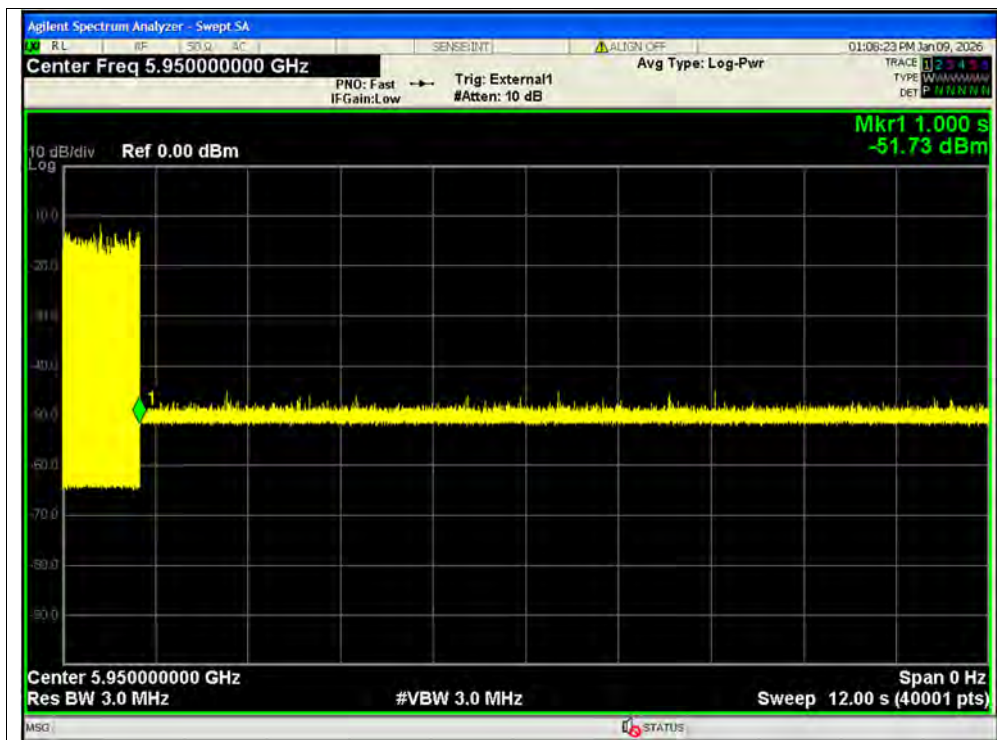
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_6



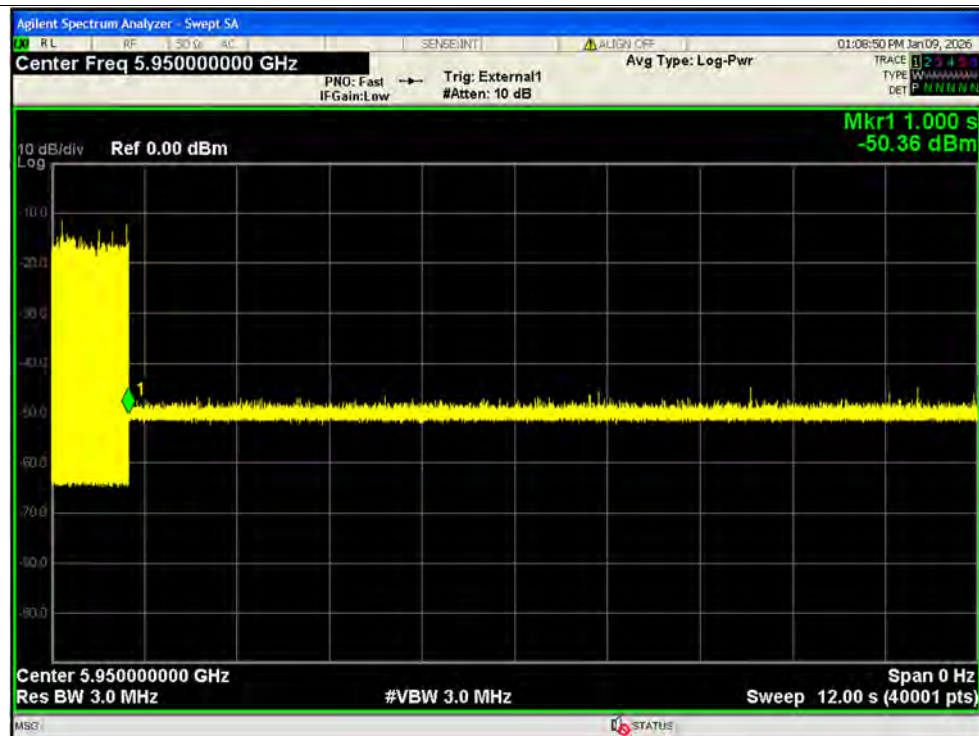
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_7



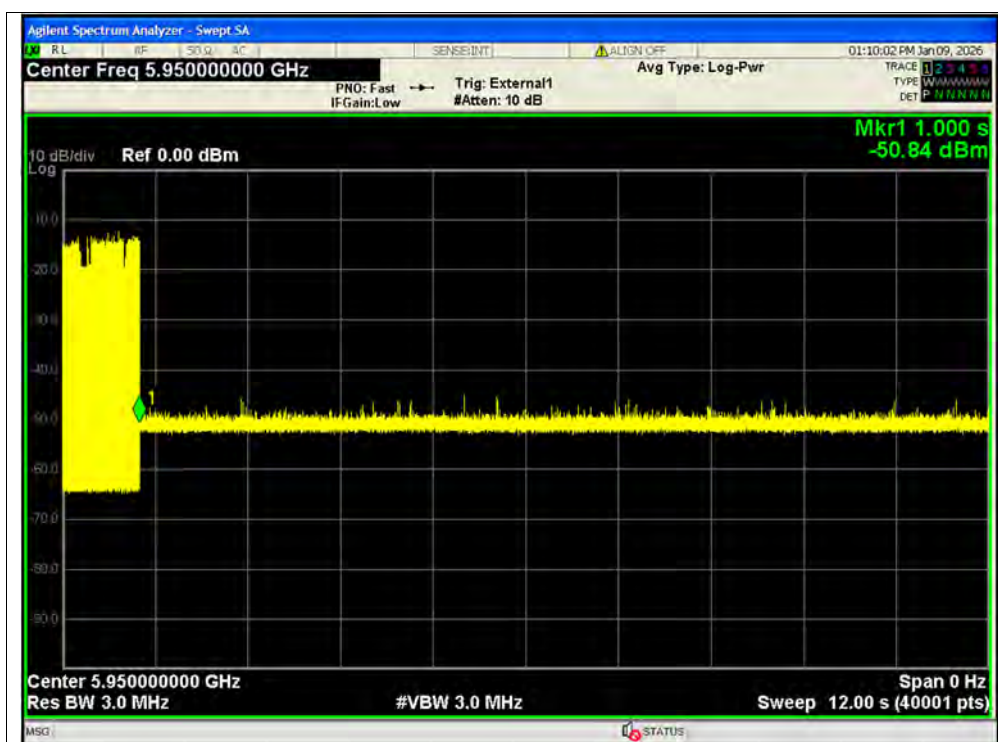
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_8



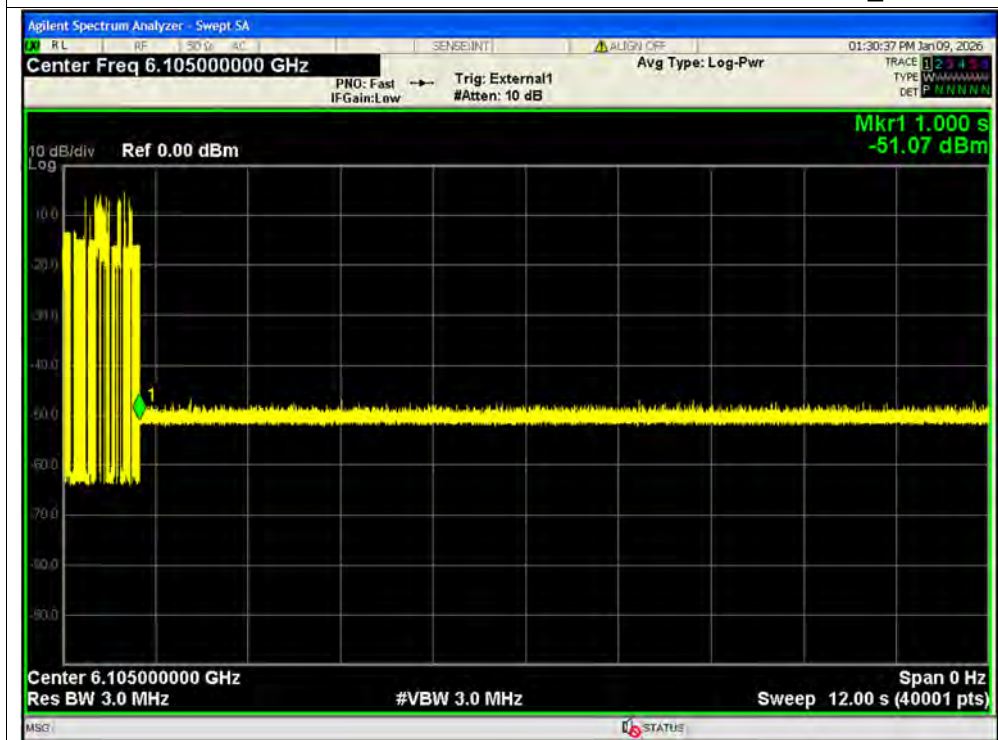
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_9



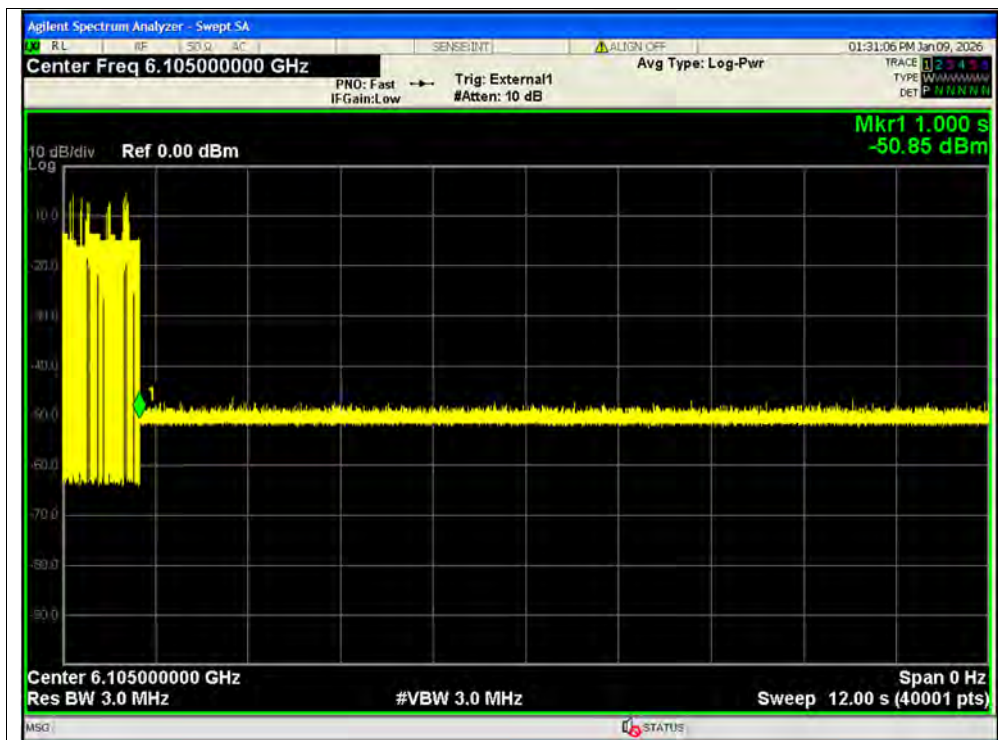
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_10



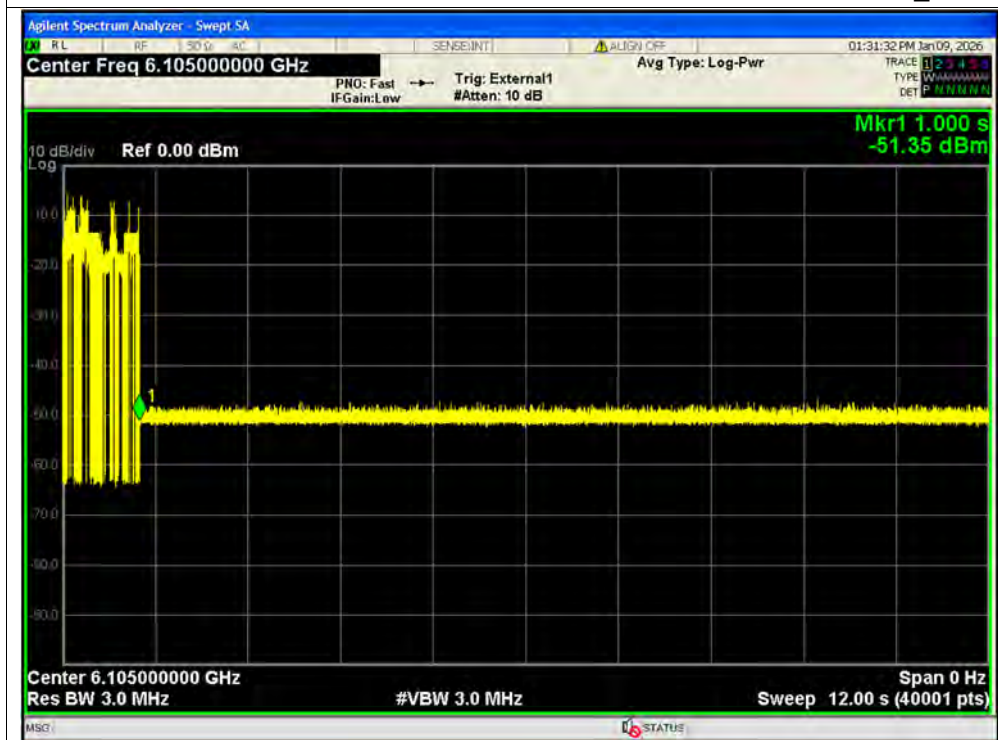
Contention Based Protocol NVNT be320 6105MHz Interfere 5950 MHz_Minimum



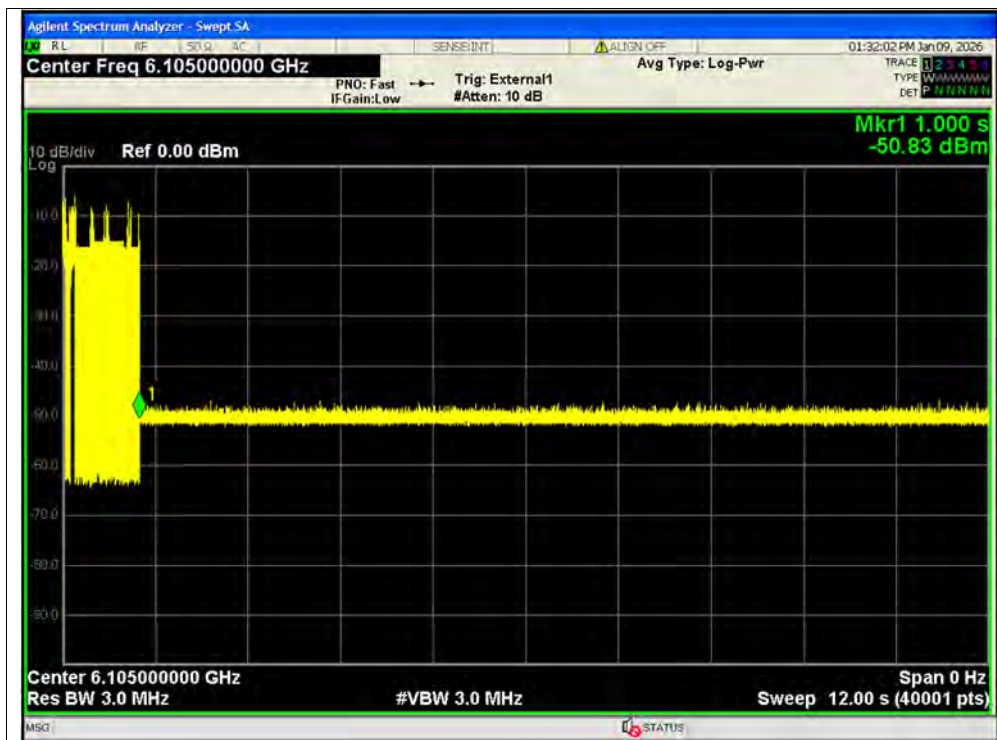
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_1



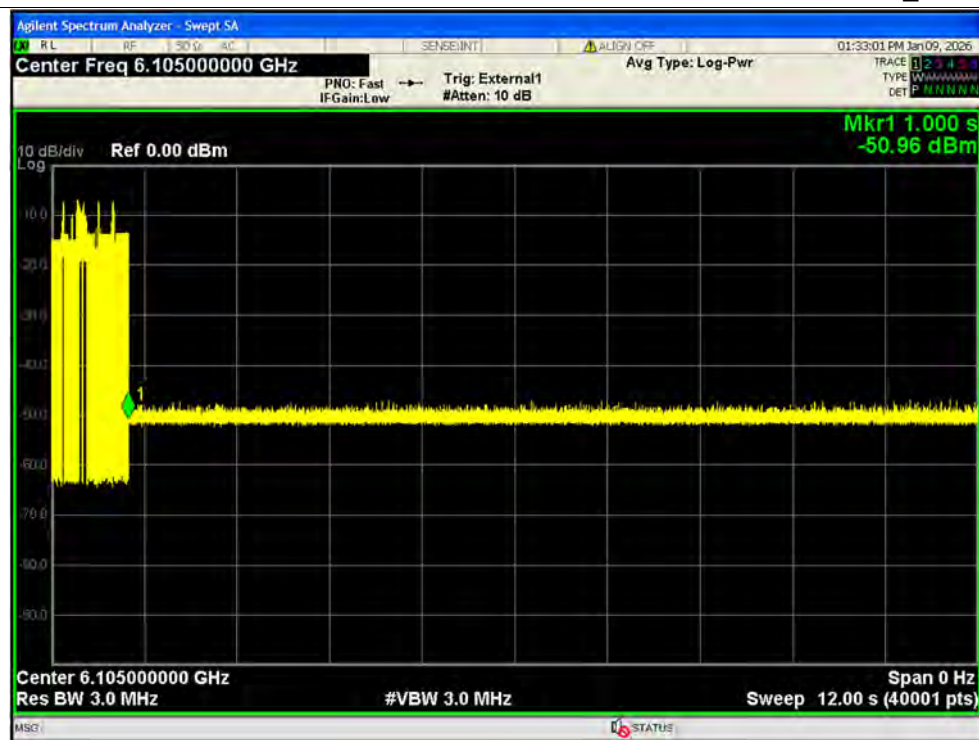
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_2



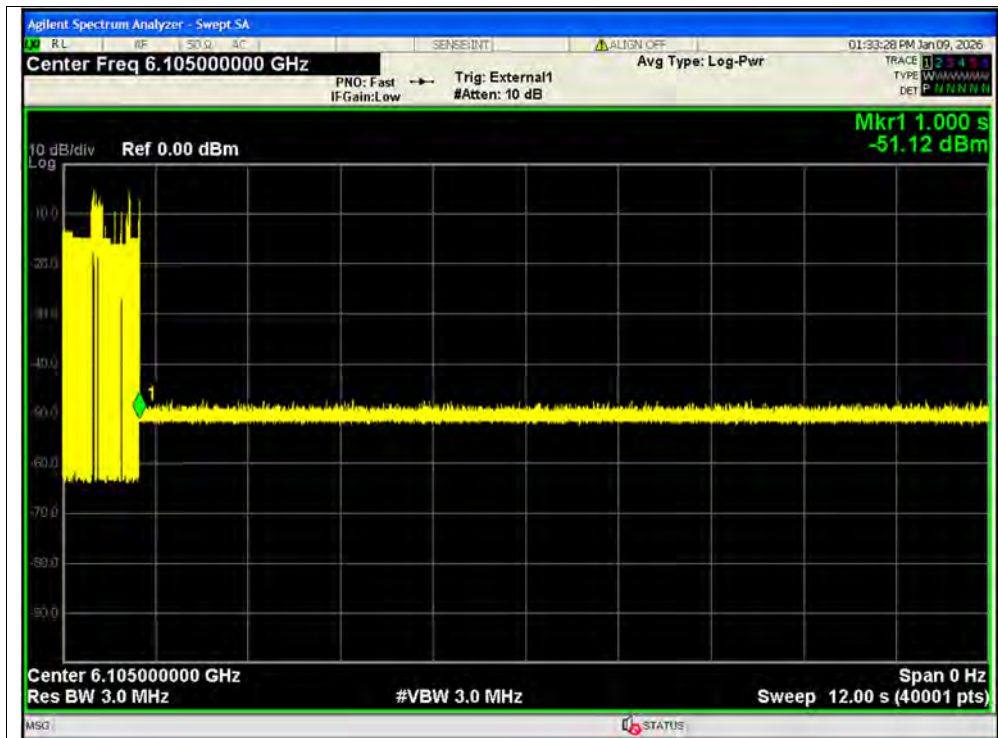
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_3



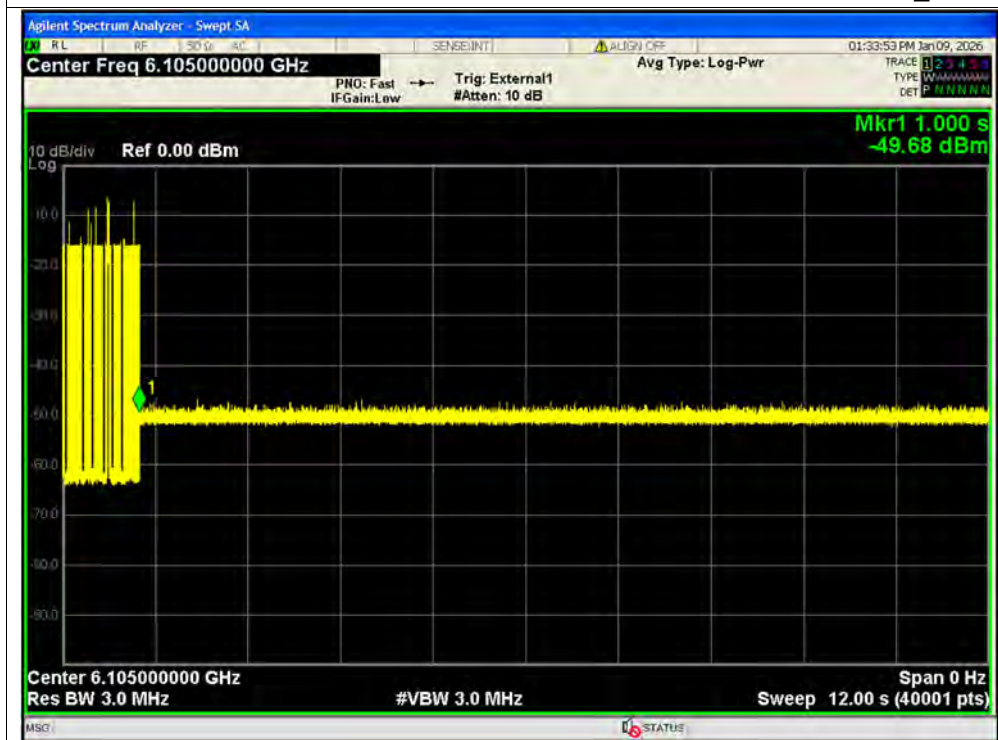
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_4



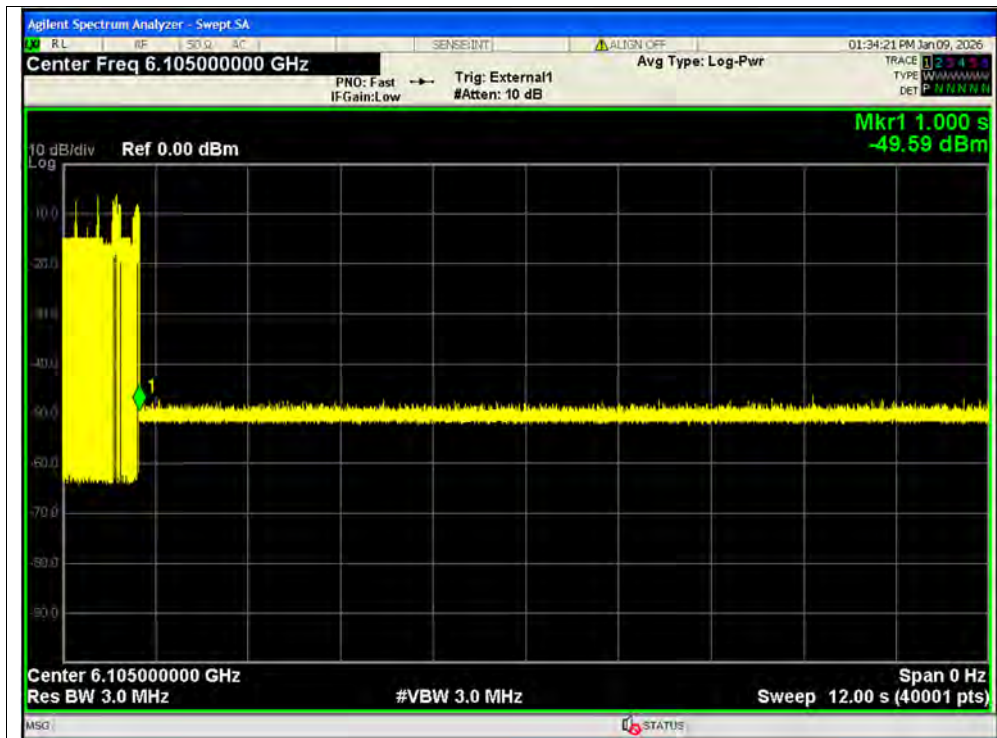
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_5



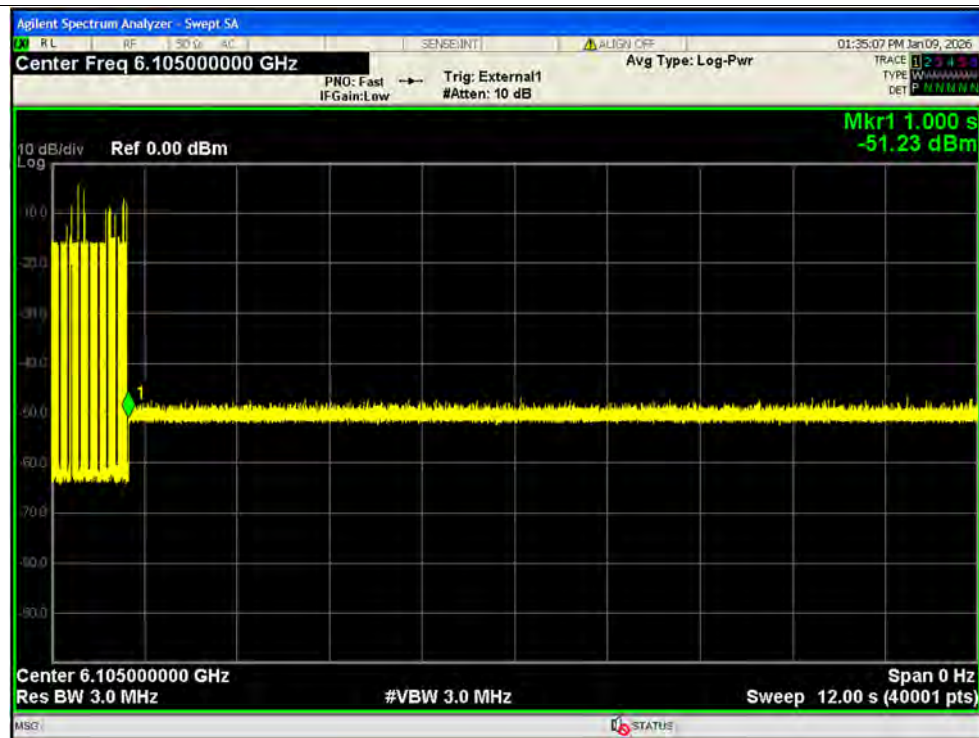
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_6



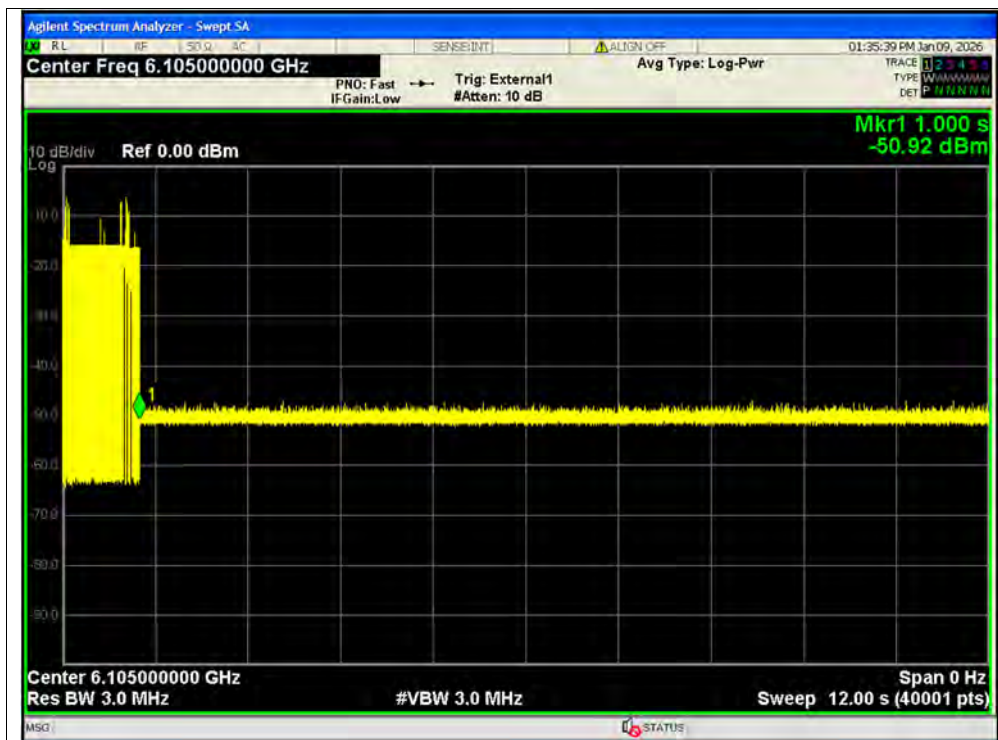
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_7



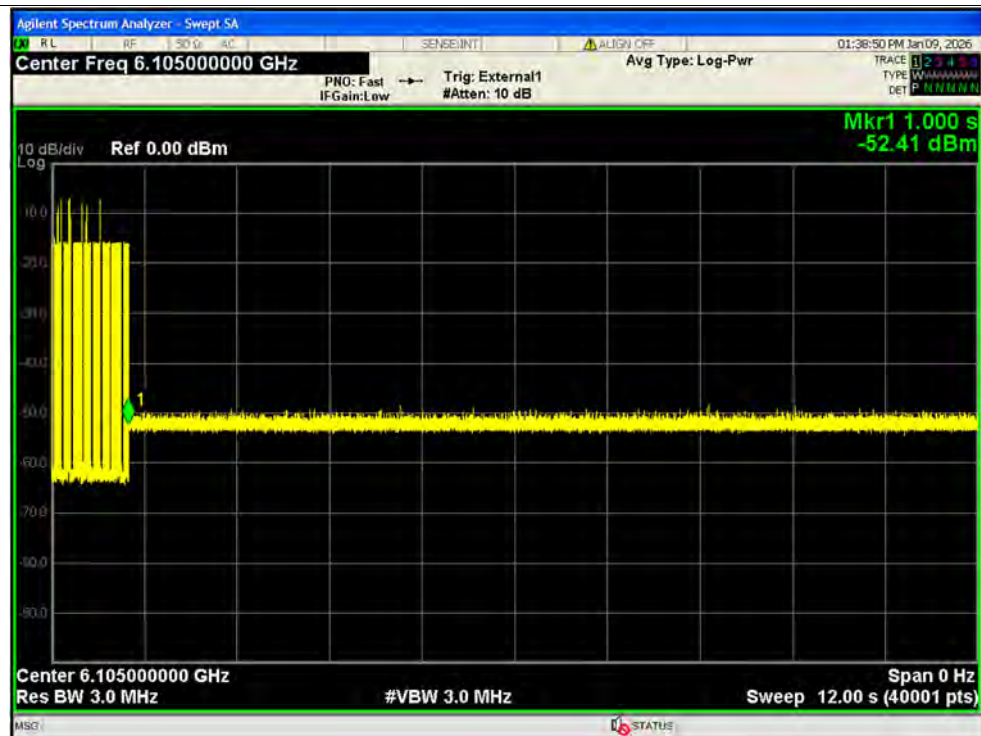
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_8



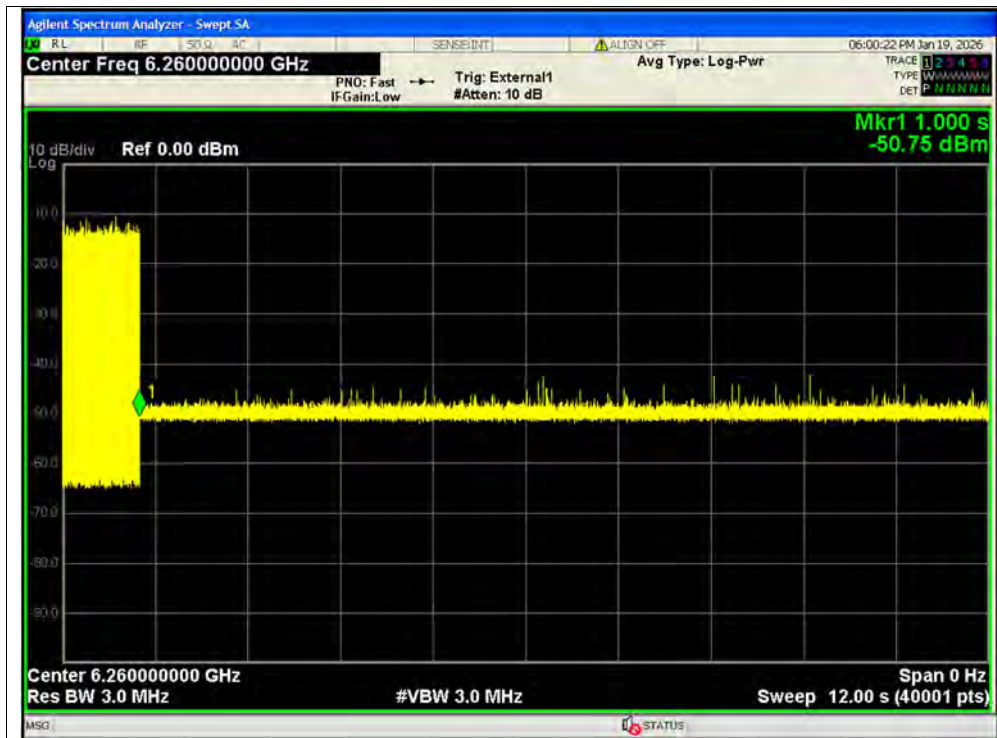
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_9



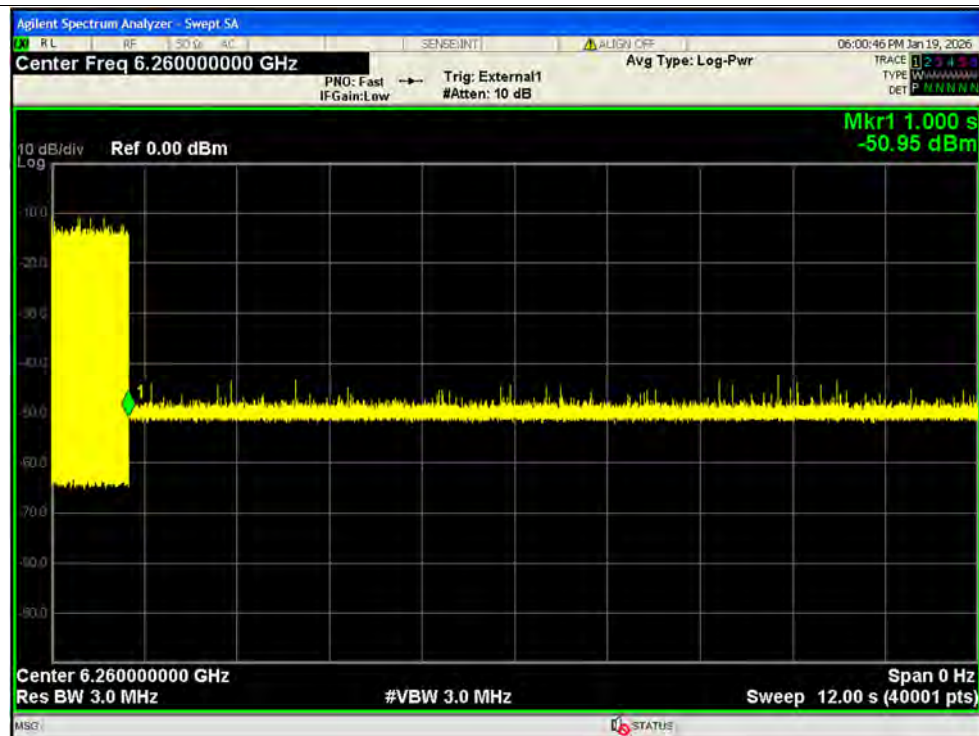
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_10



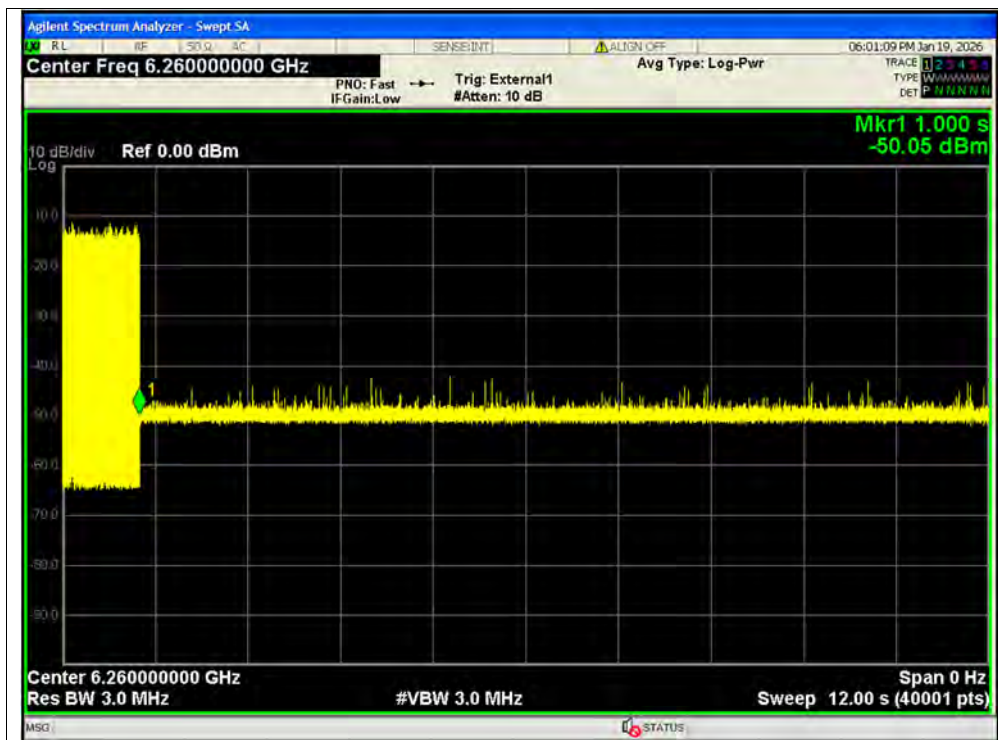
Contention Based Protocol NVNT be320 6105MHz Interfere 6105 MHz_Minimum



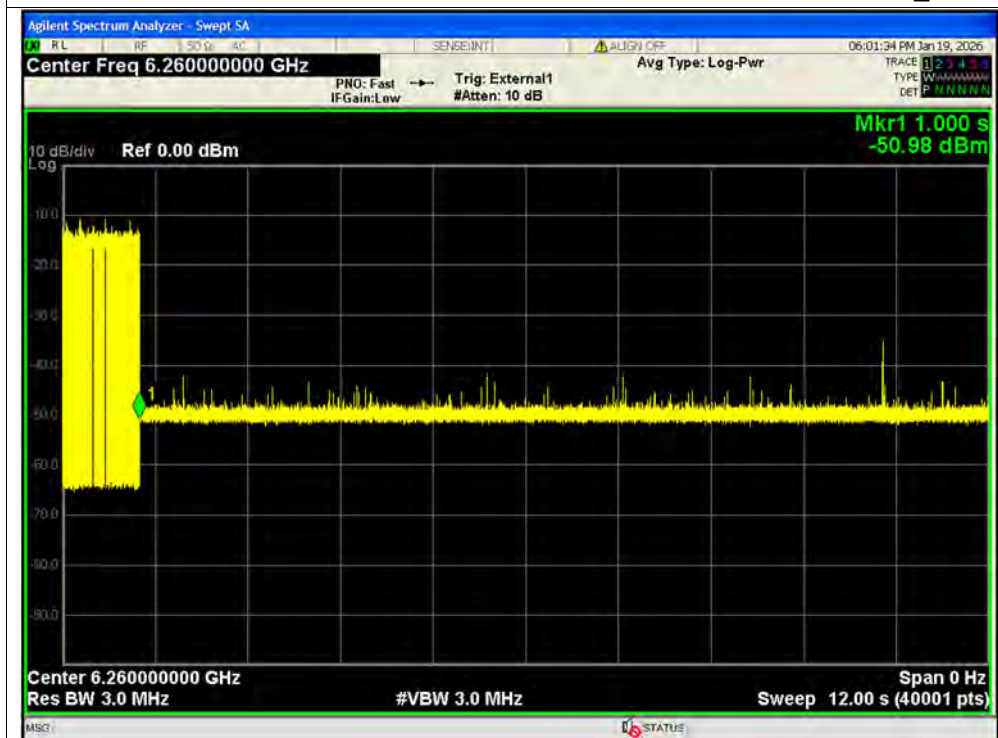
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_1



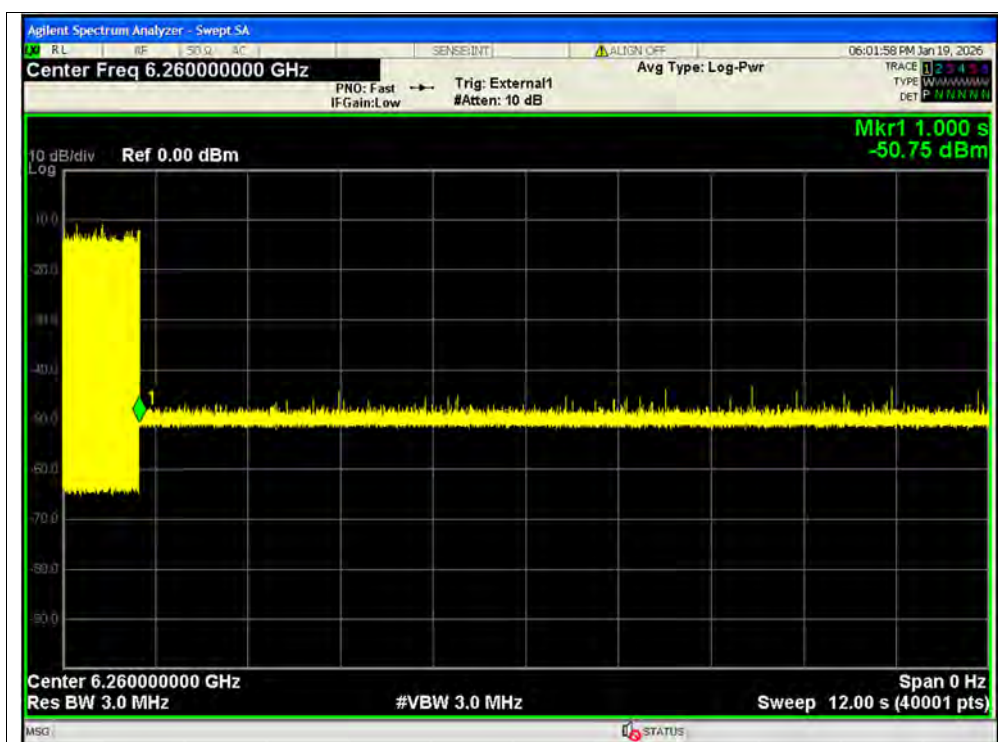
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_2



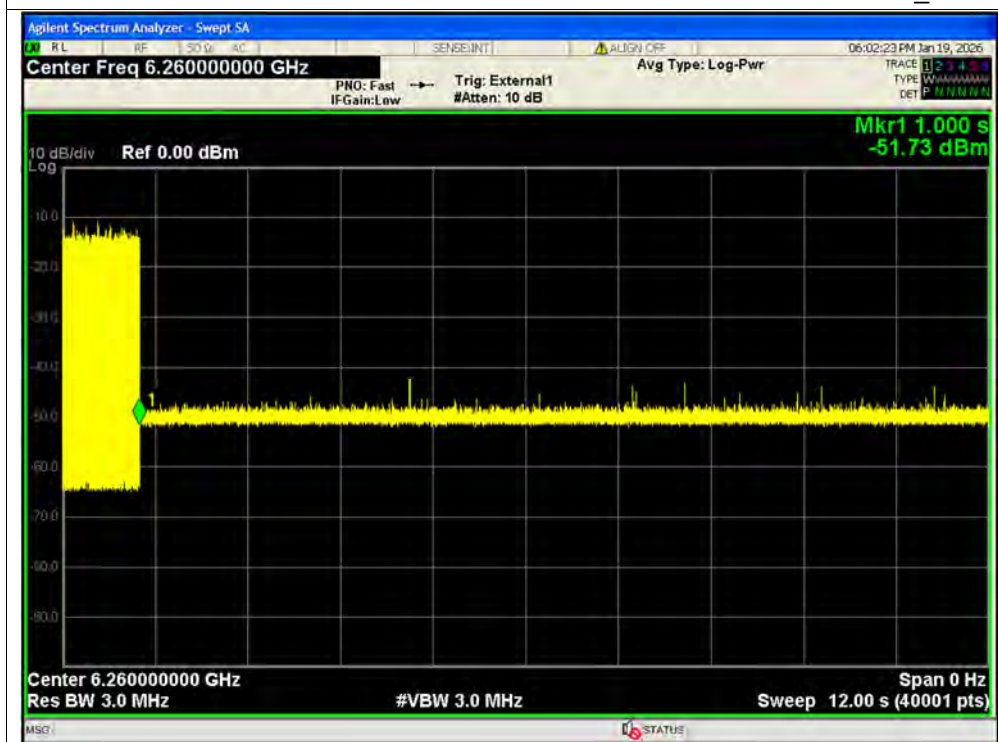
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_3



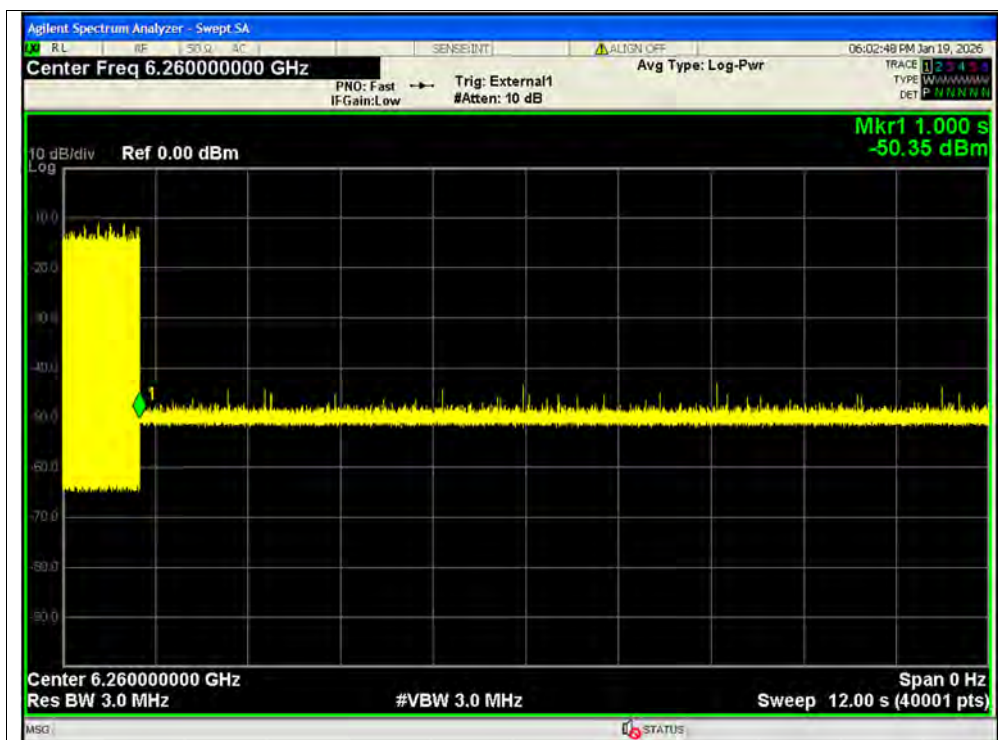
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_4



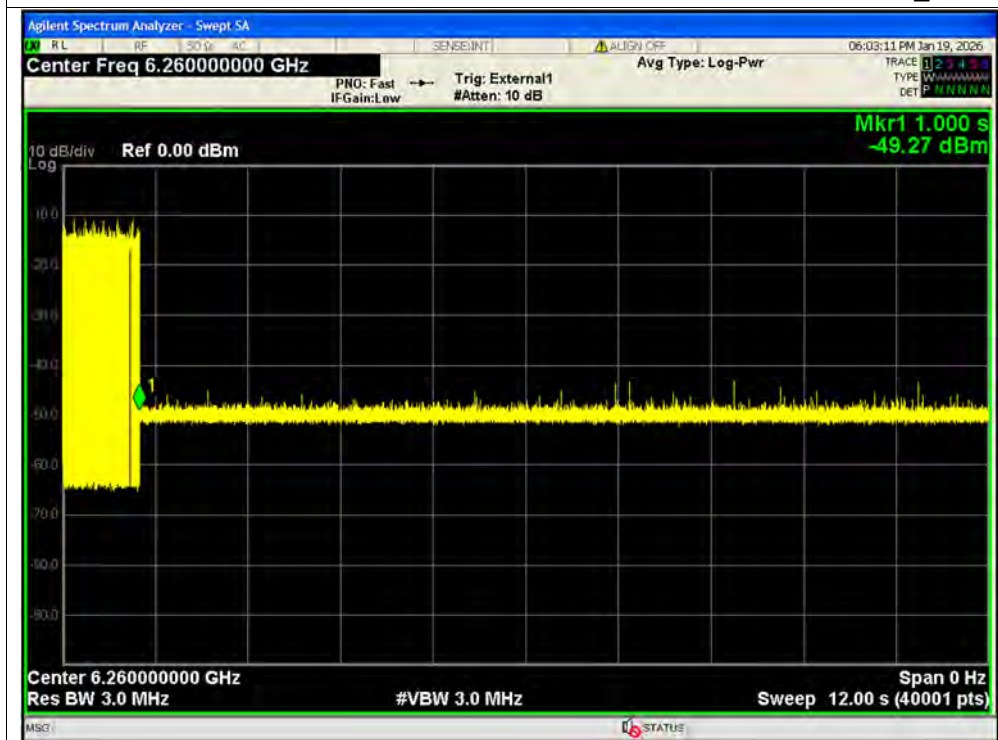
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_5



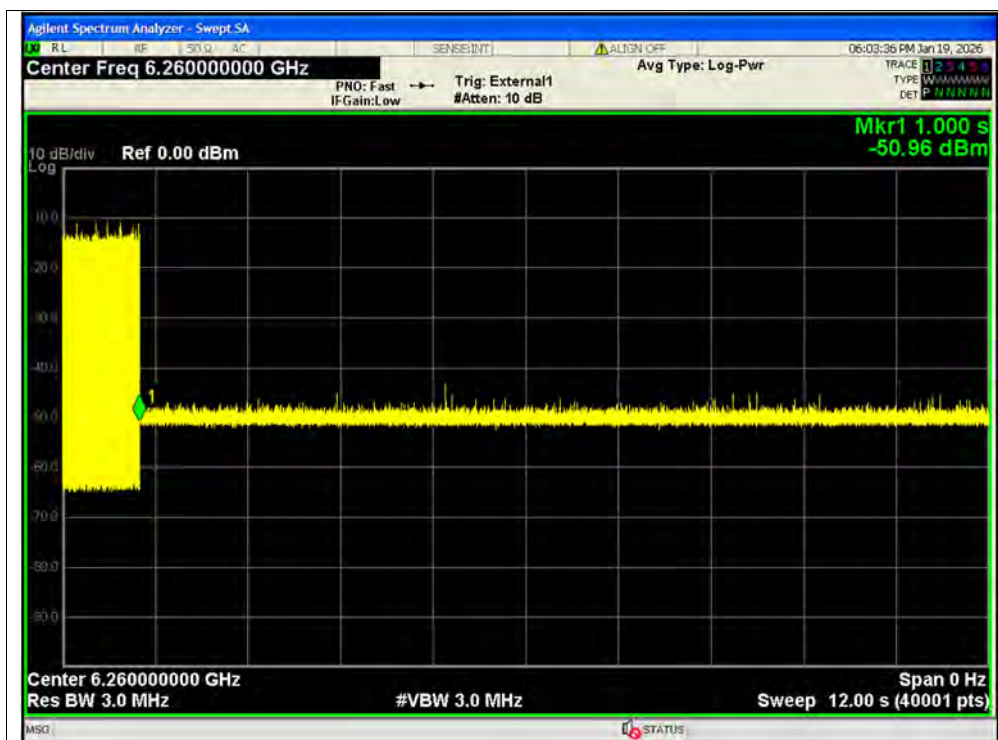
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_6



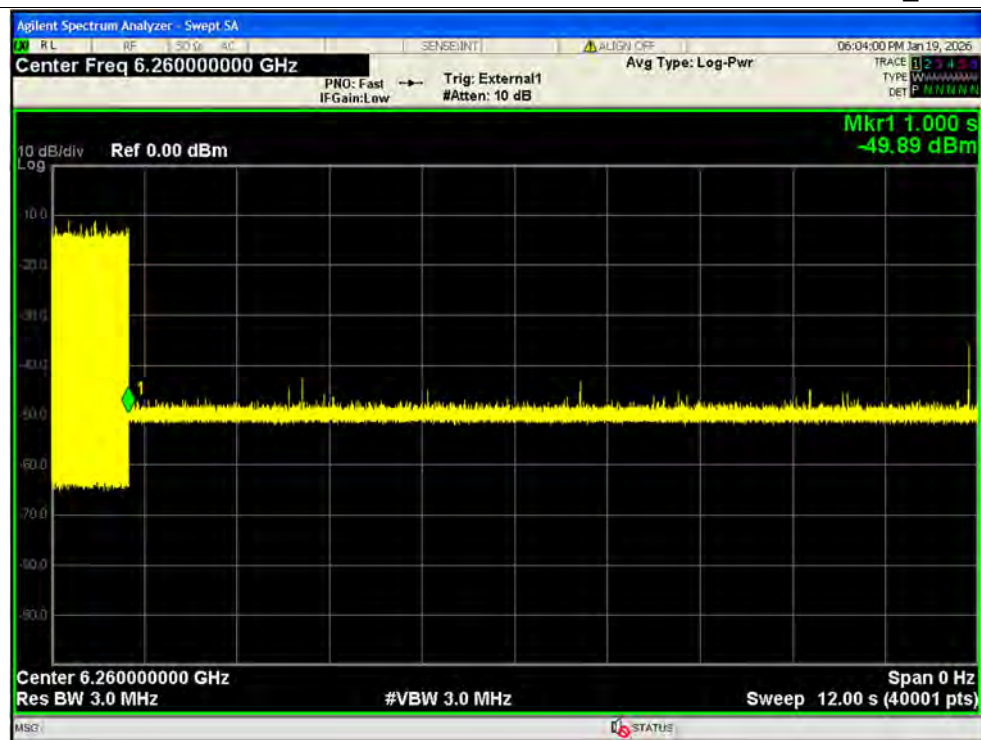
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_7



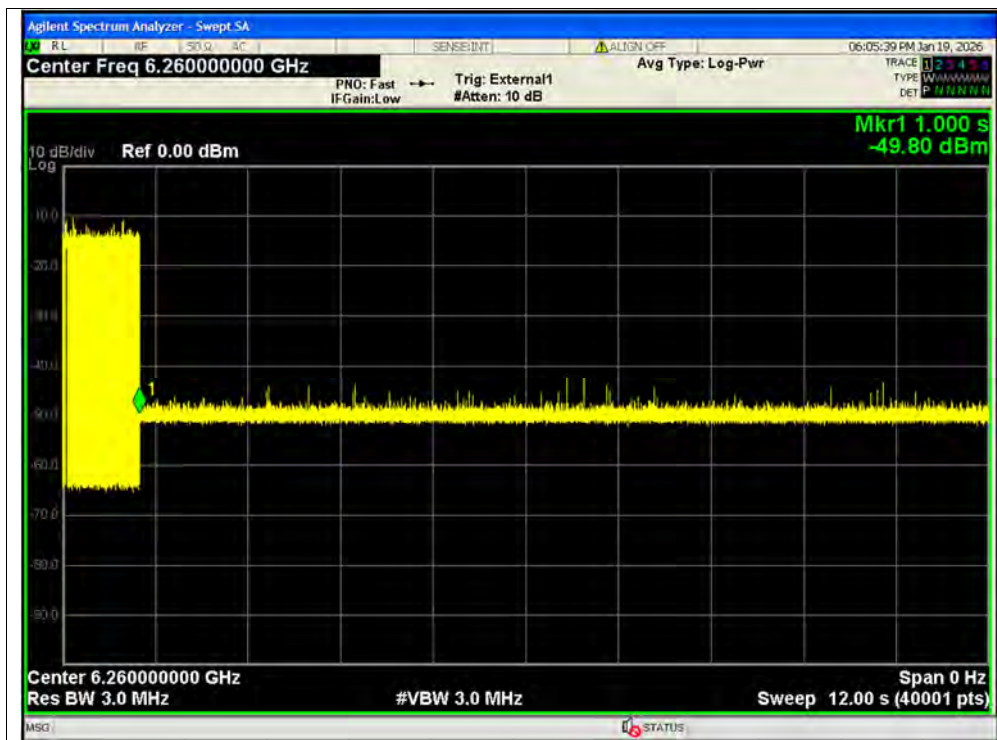
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_8



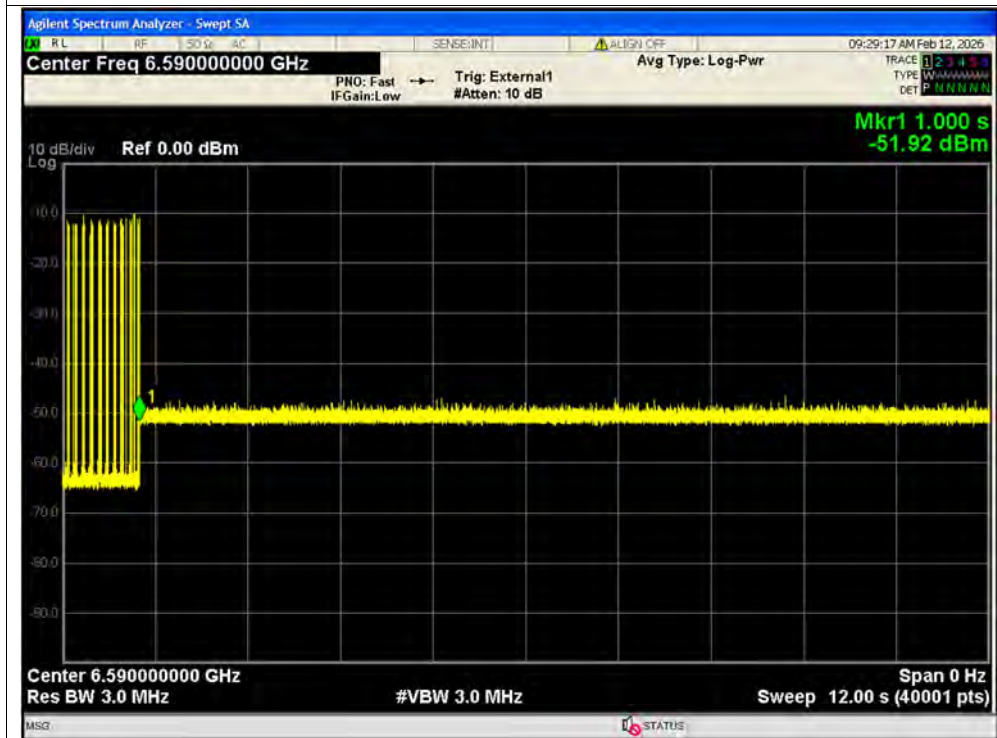
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_9



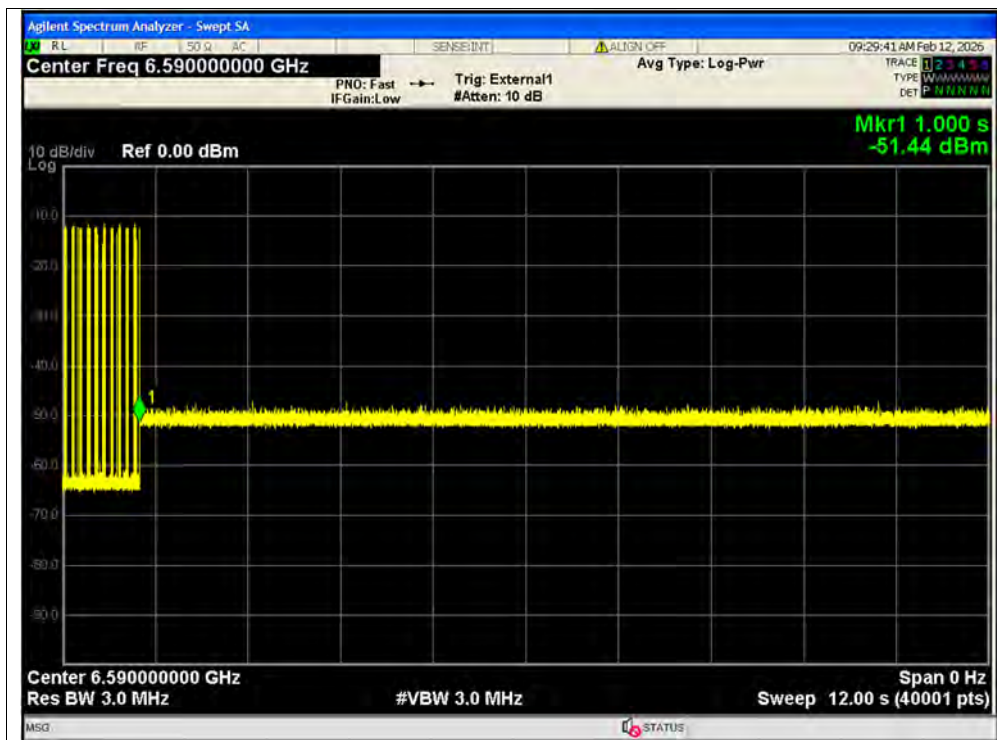
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_10



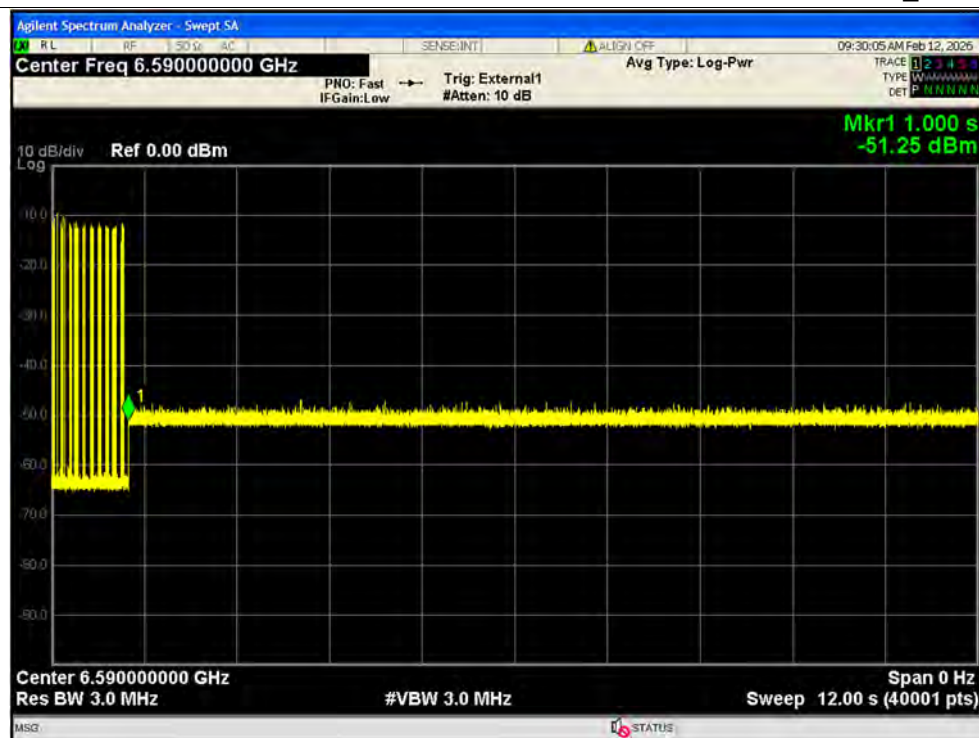
Contention Based Protocol NVNT be320 6105MHz Interfere 6260 MHz_Minimum



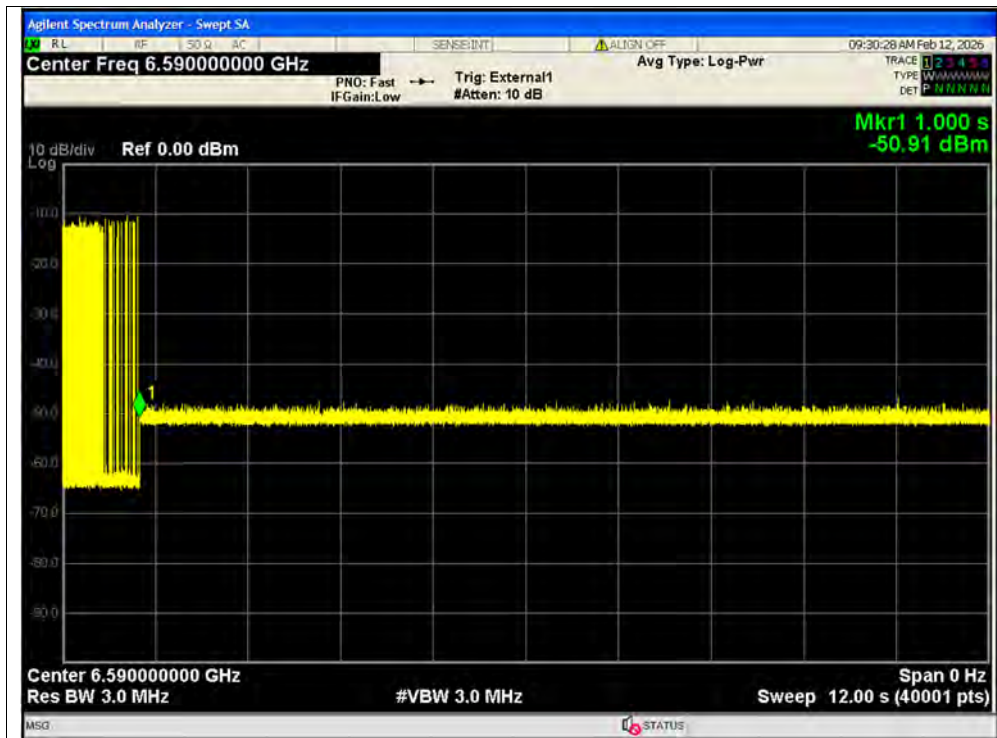
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_1



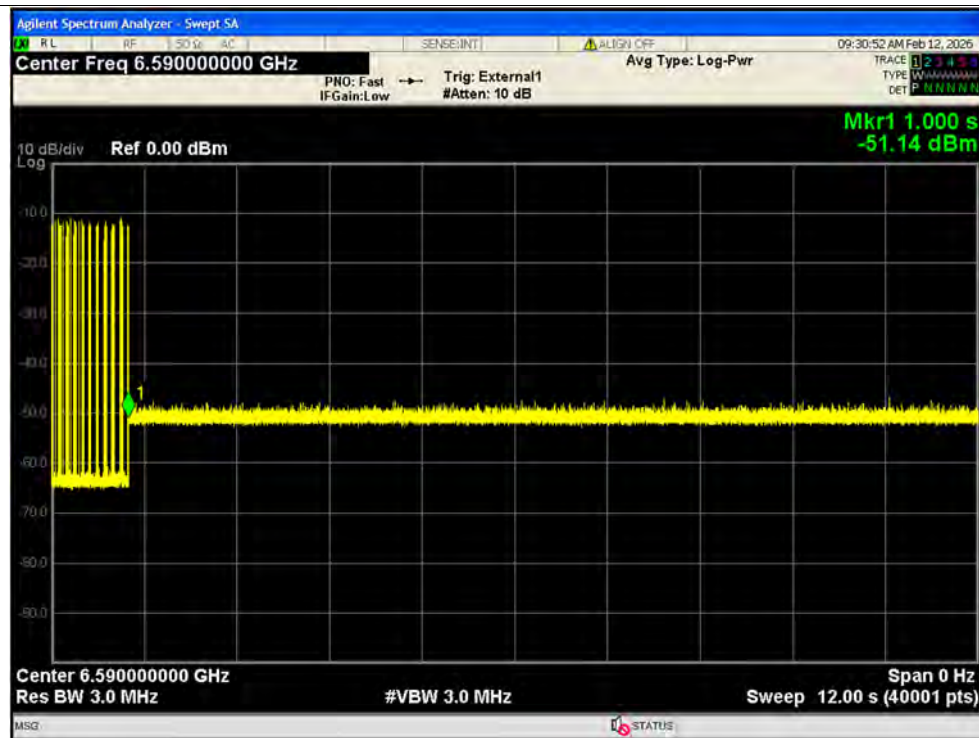
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_2



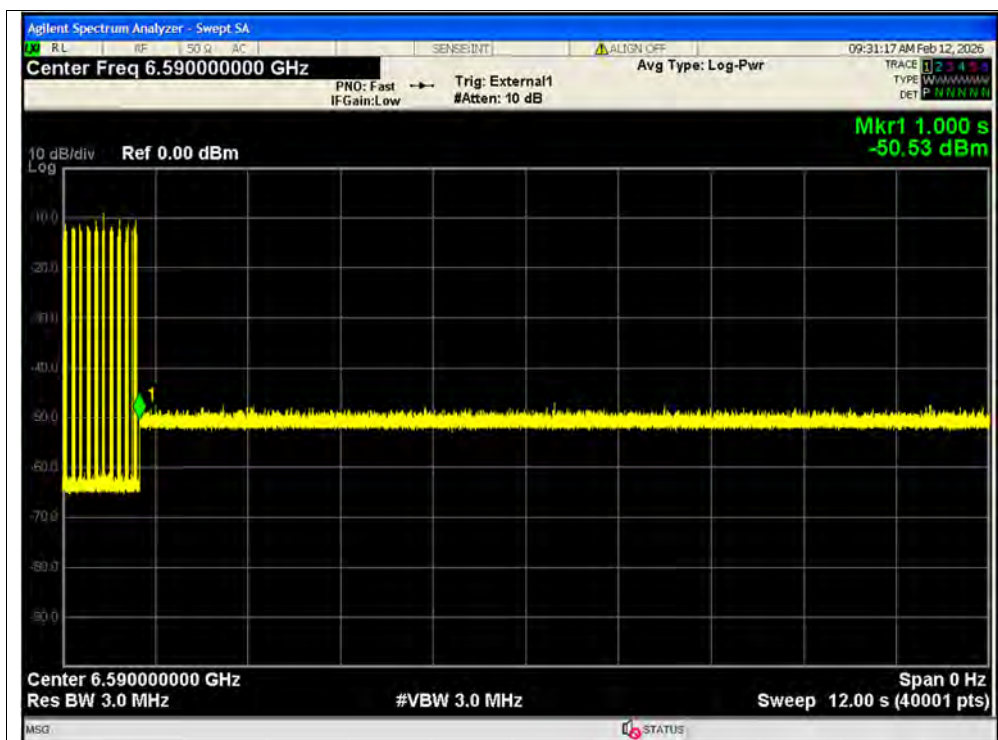
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_3



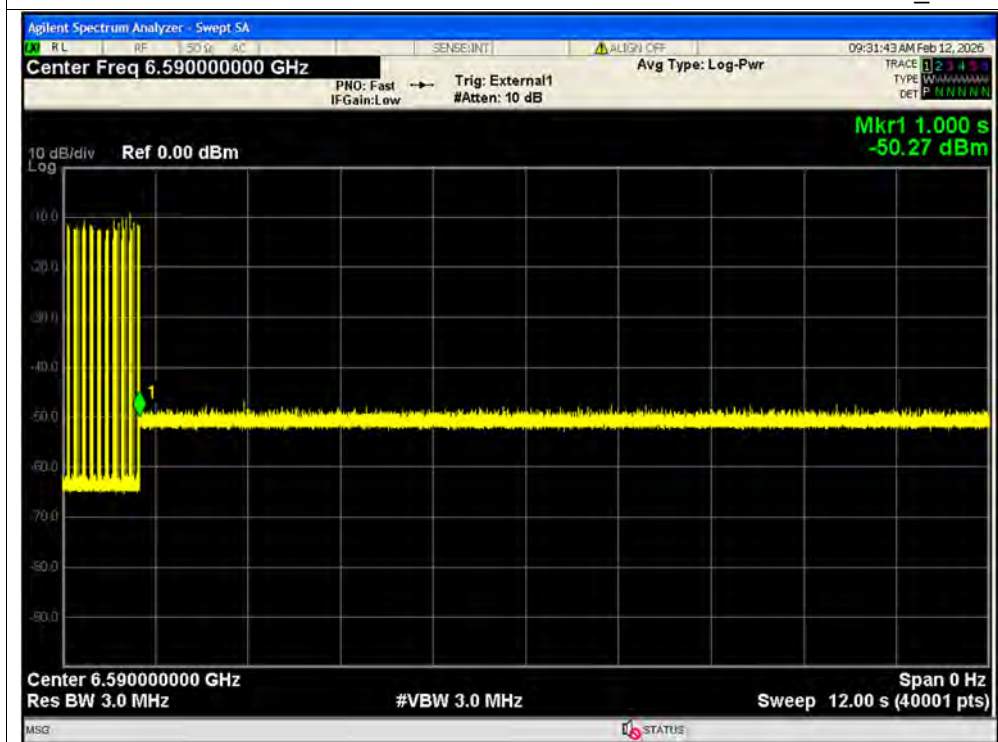
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_4



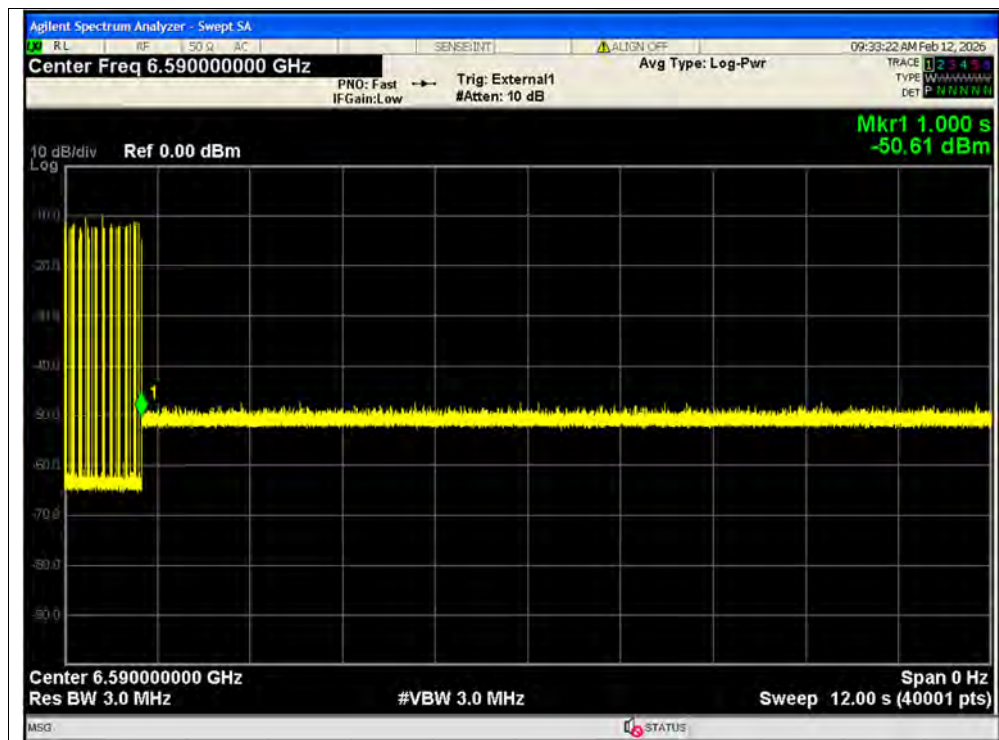
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_5



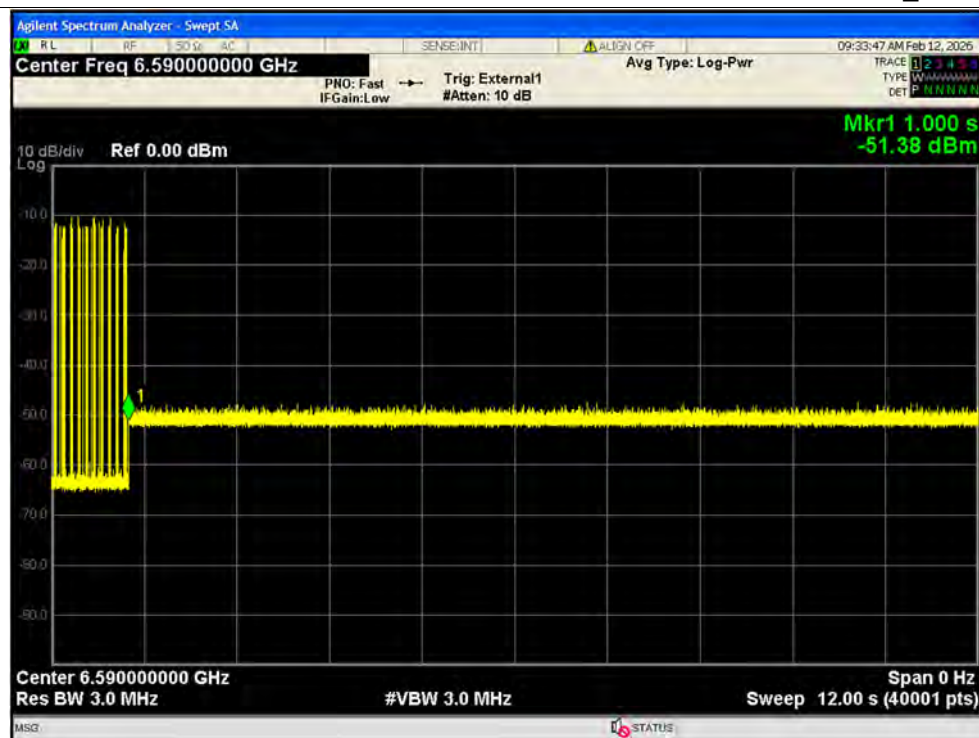
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_6



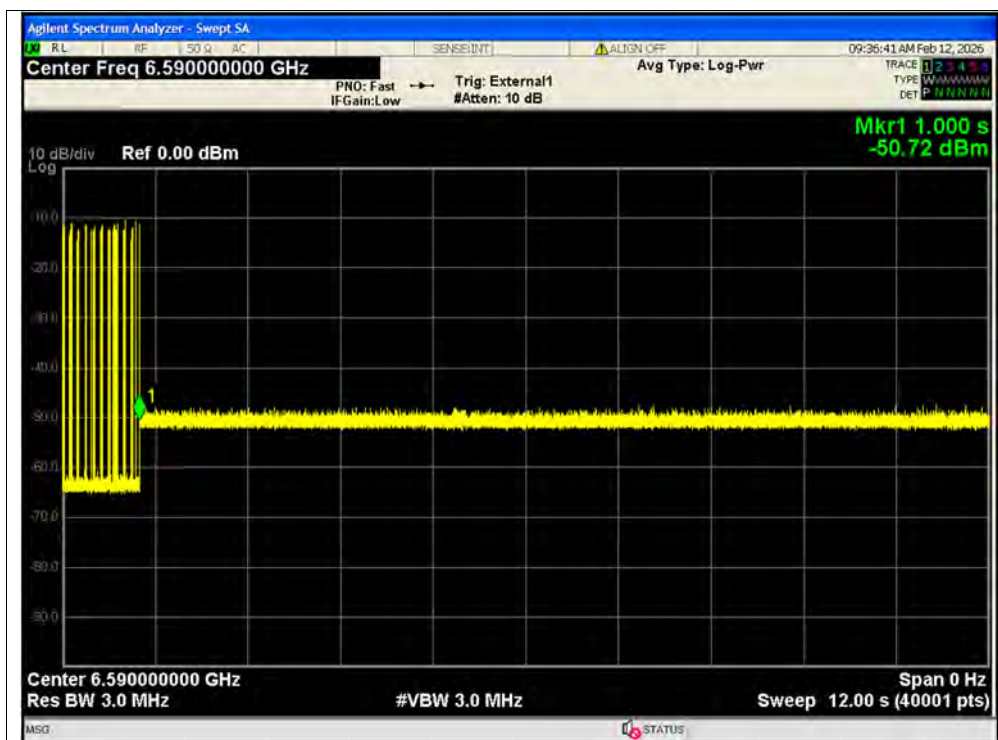
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_7



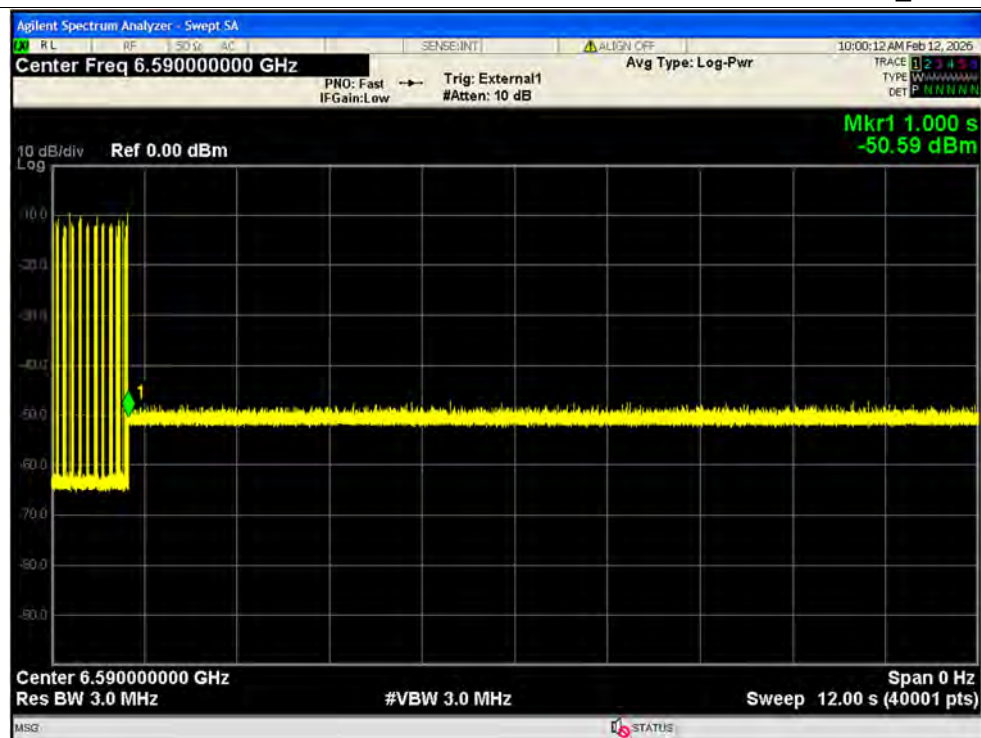
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_8



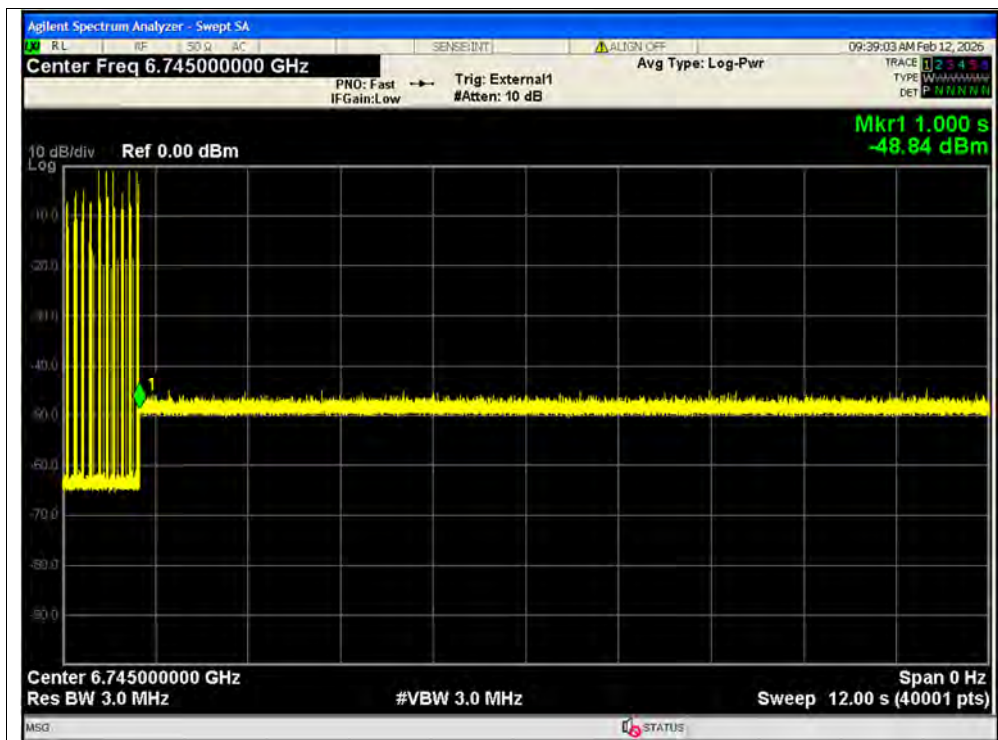
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_9



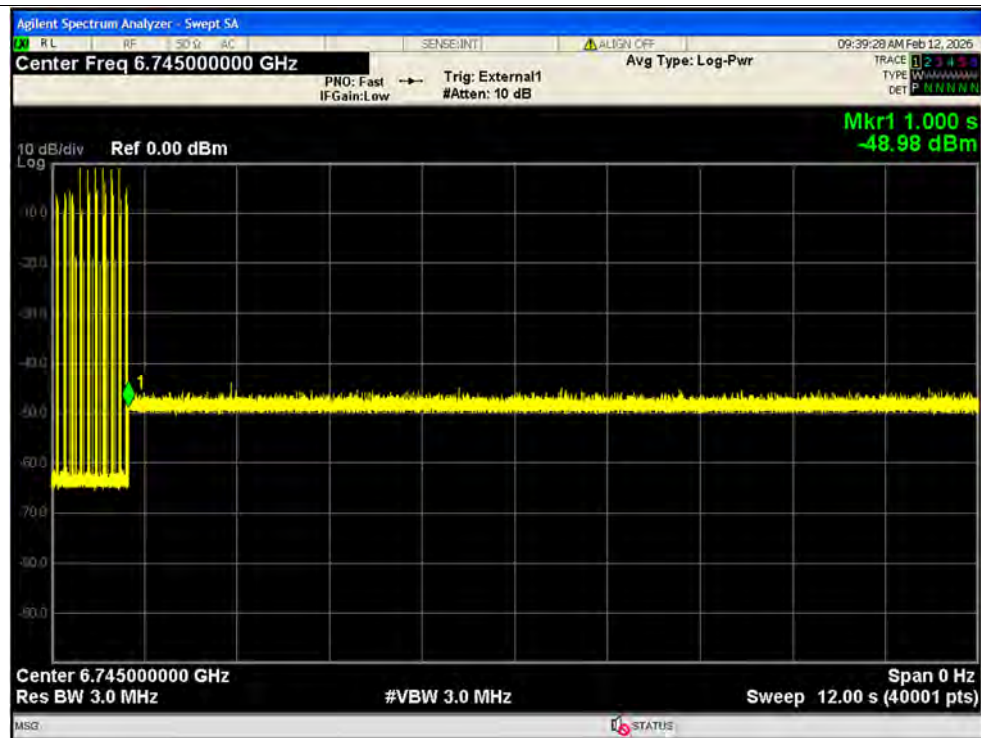
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_10



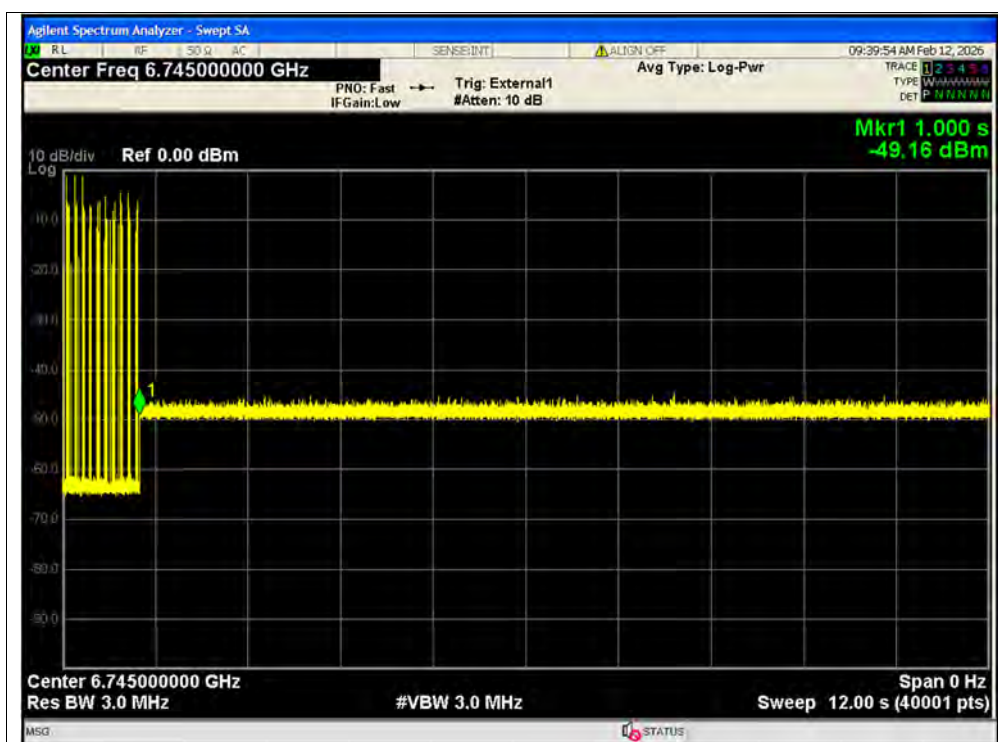
Contention Based Protocol NVNT be320 6745MHz Interfere 6590 MHz_Minimum



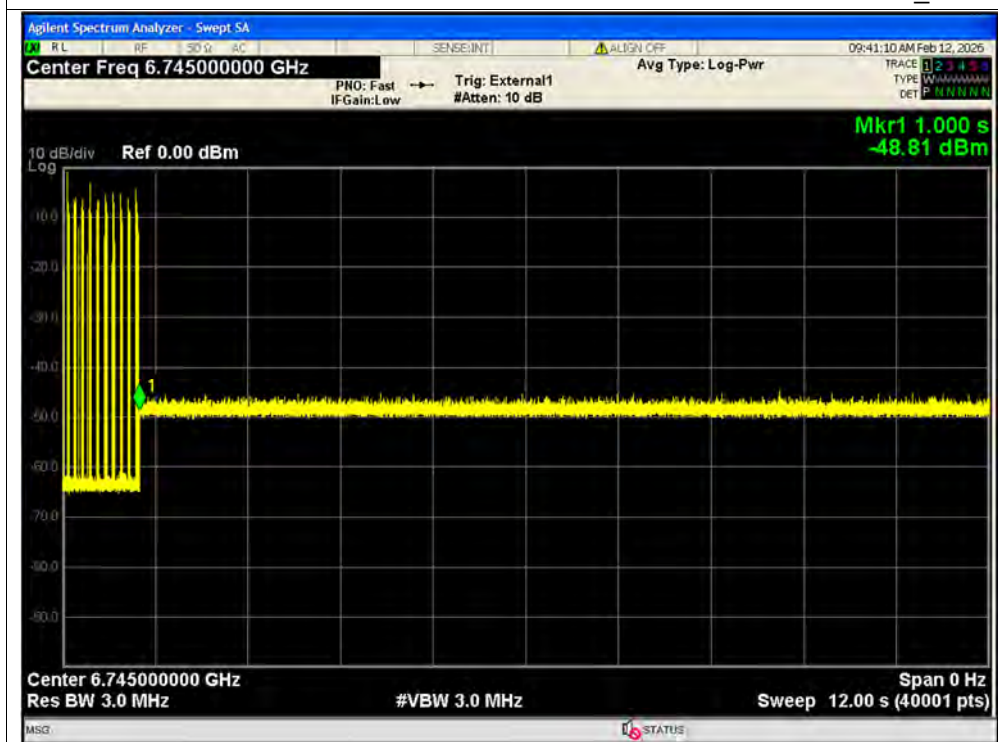
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_1



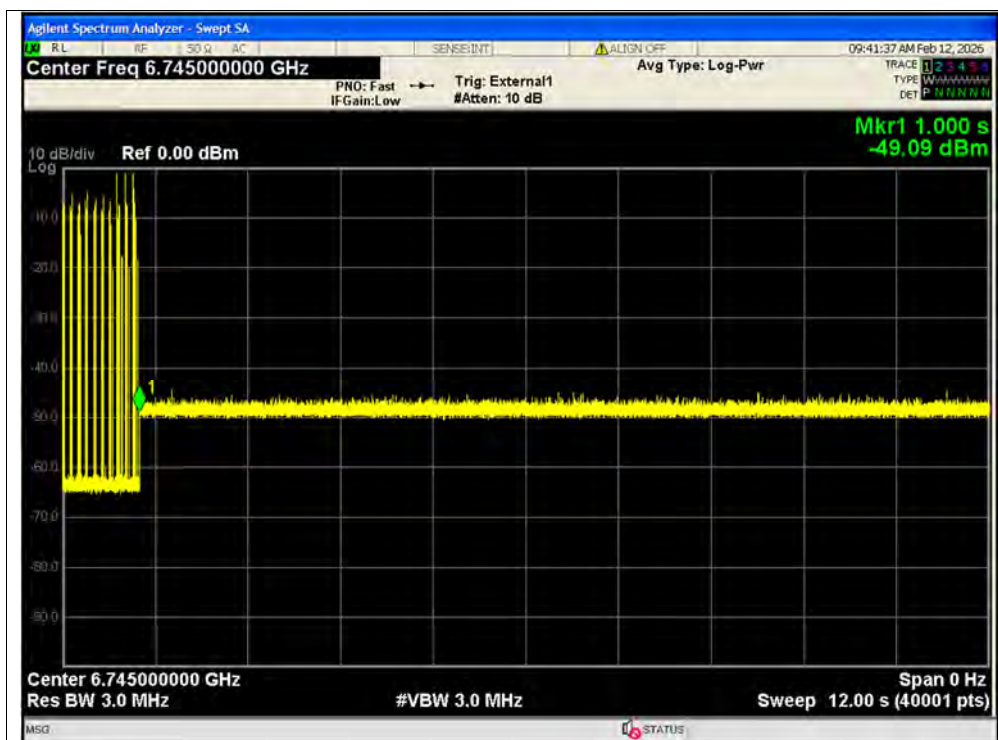
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_2



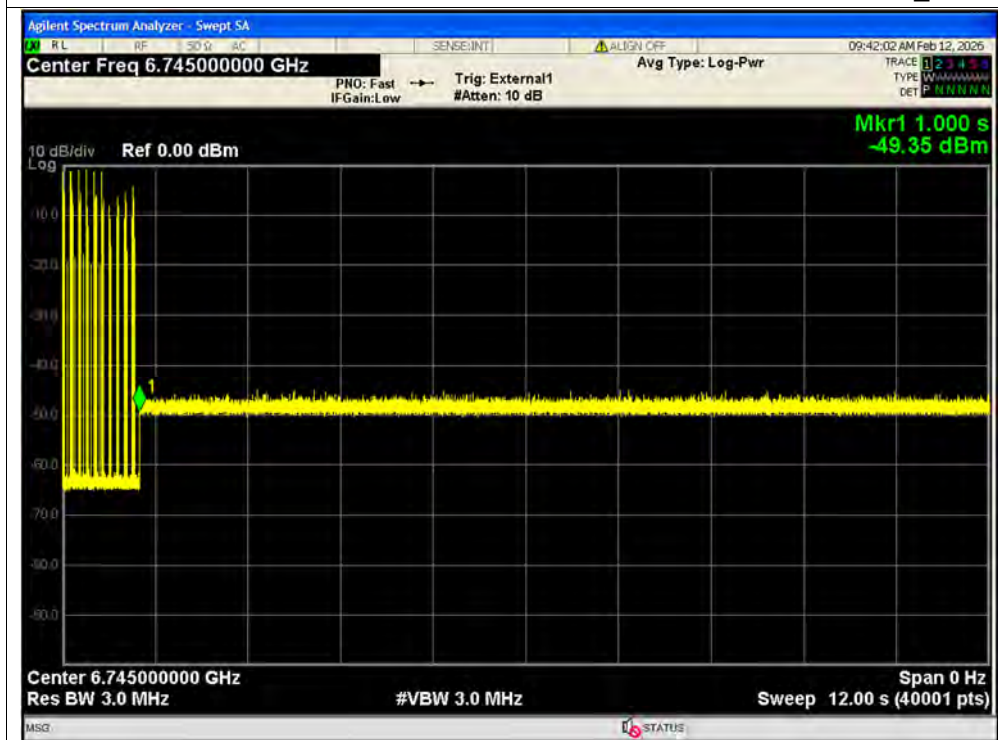
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_3



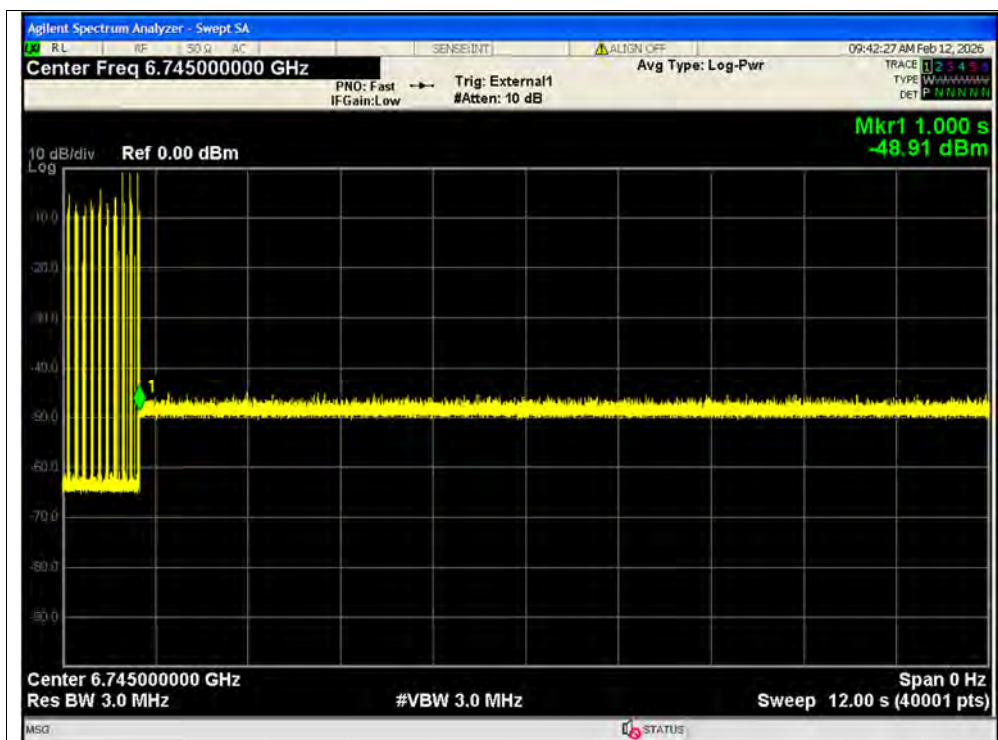
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_4



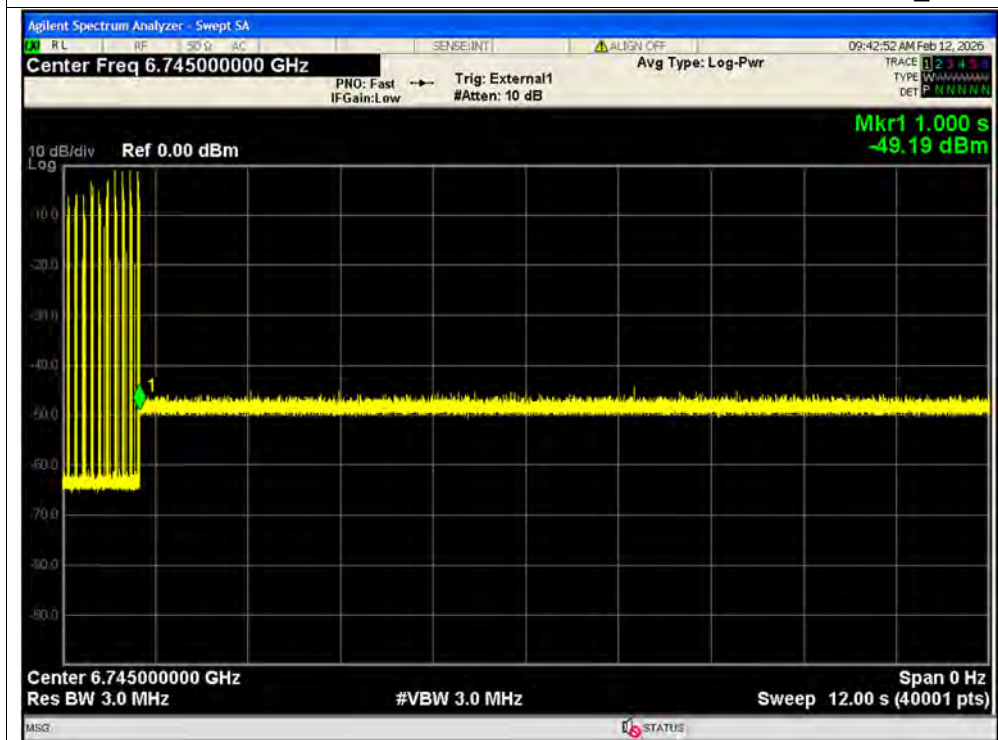
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_5



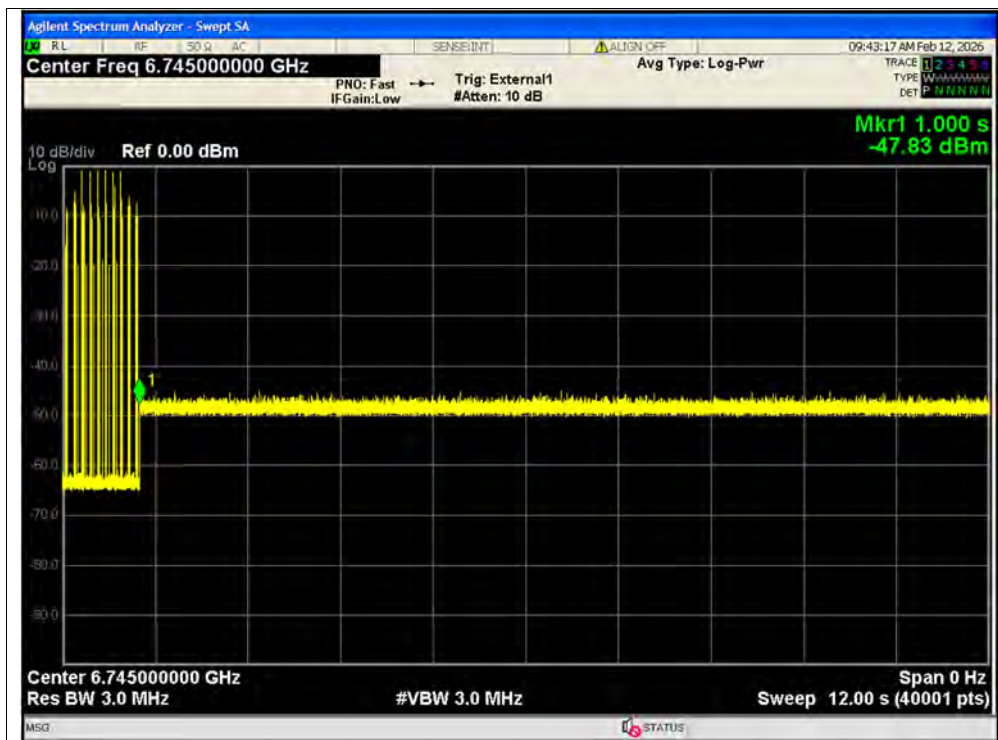
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_6



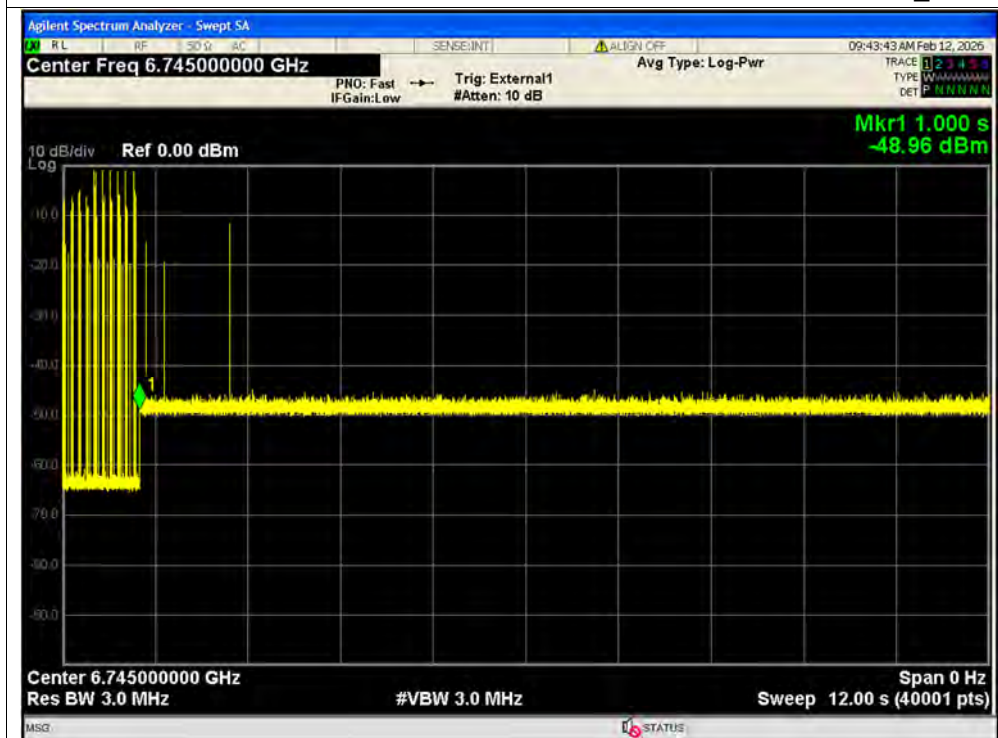
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_7



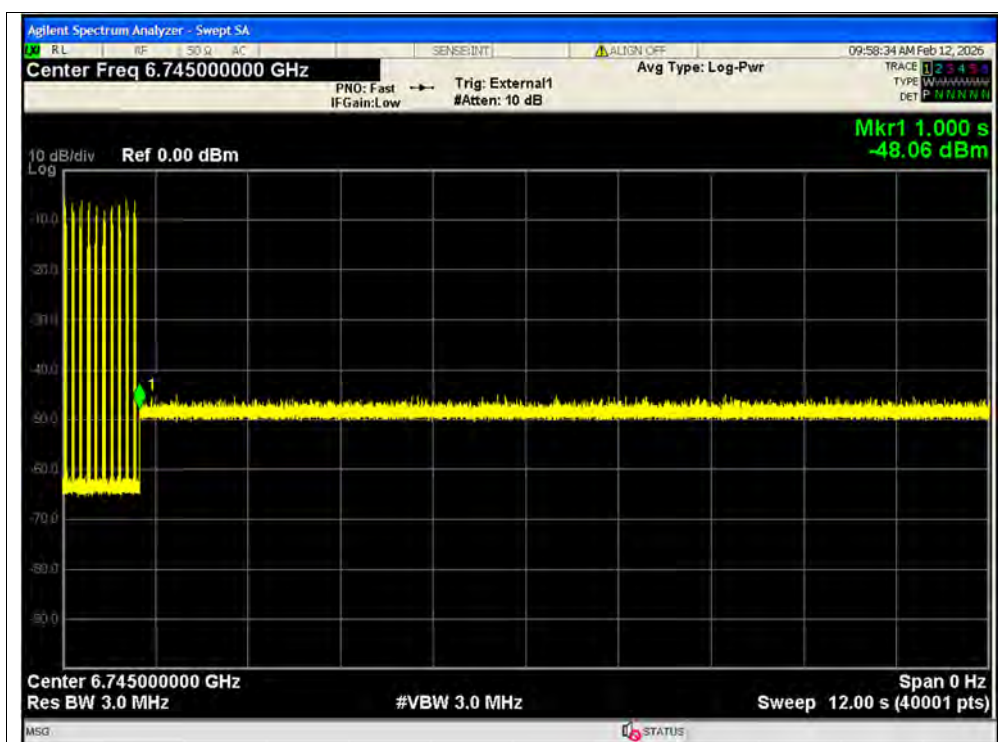
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_8



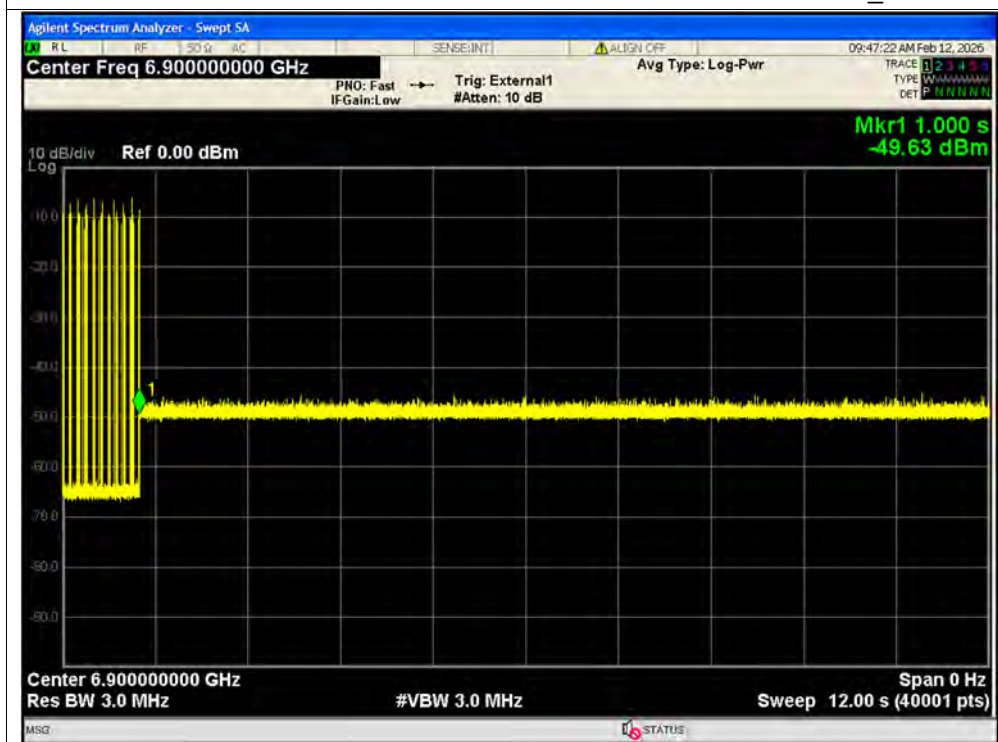
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_9



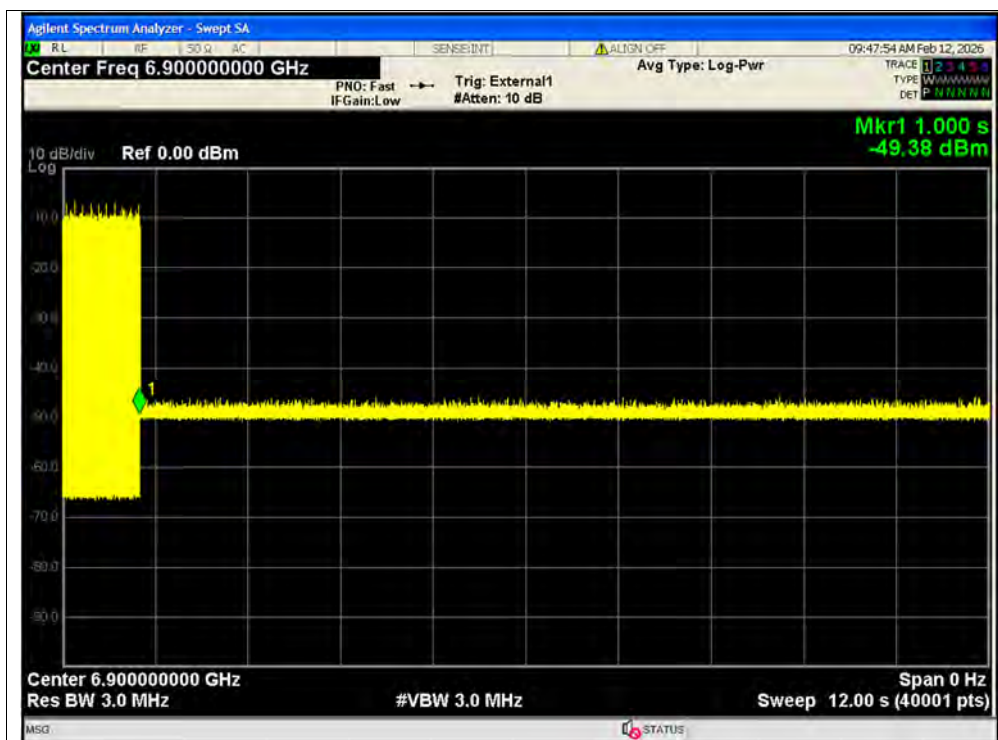
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_10



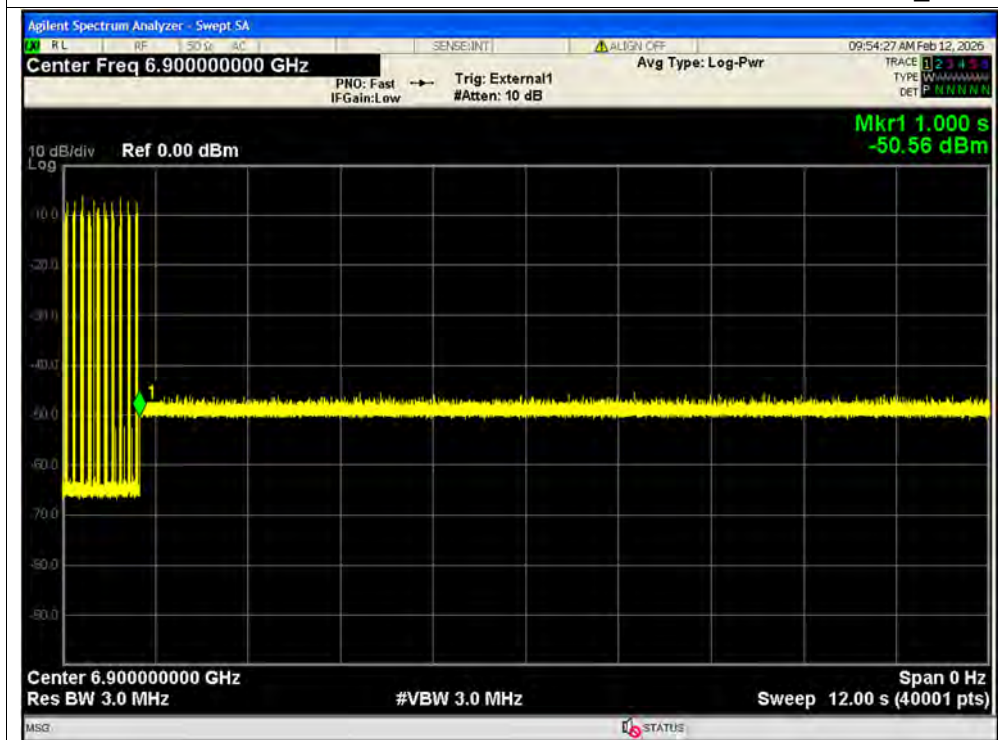
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_Minimum



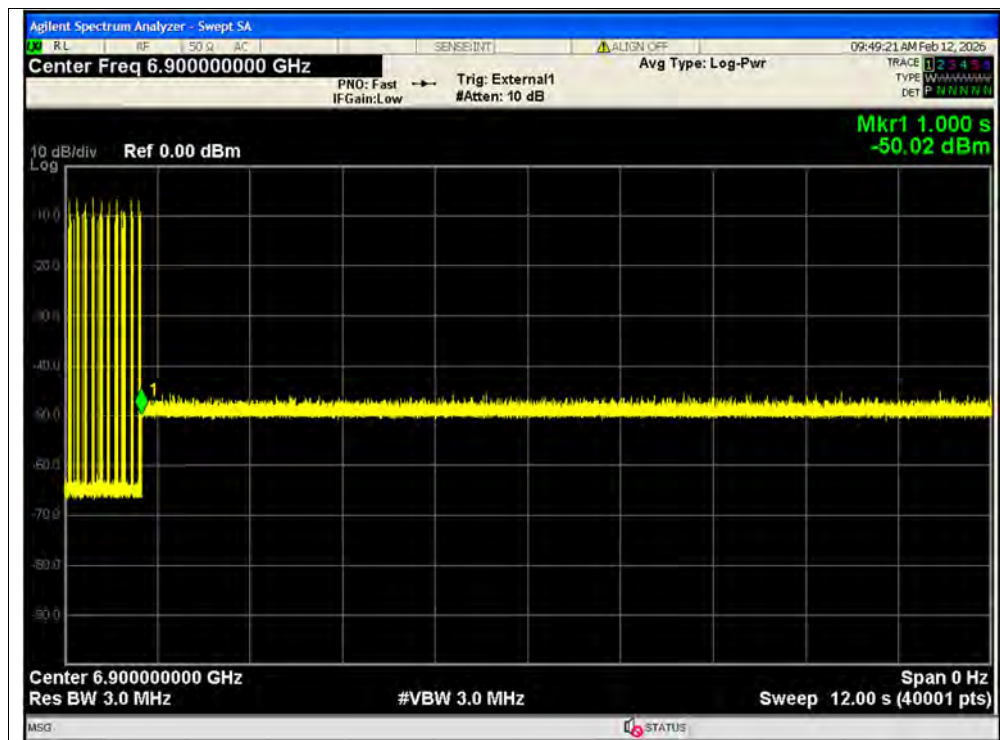
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_1



Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_2



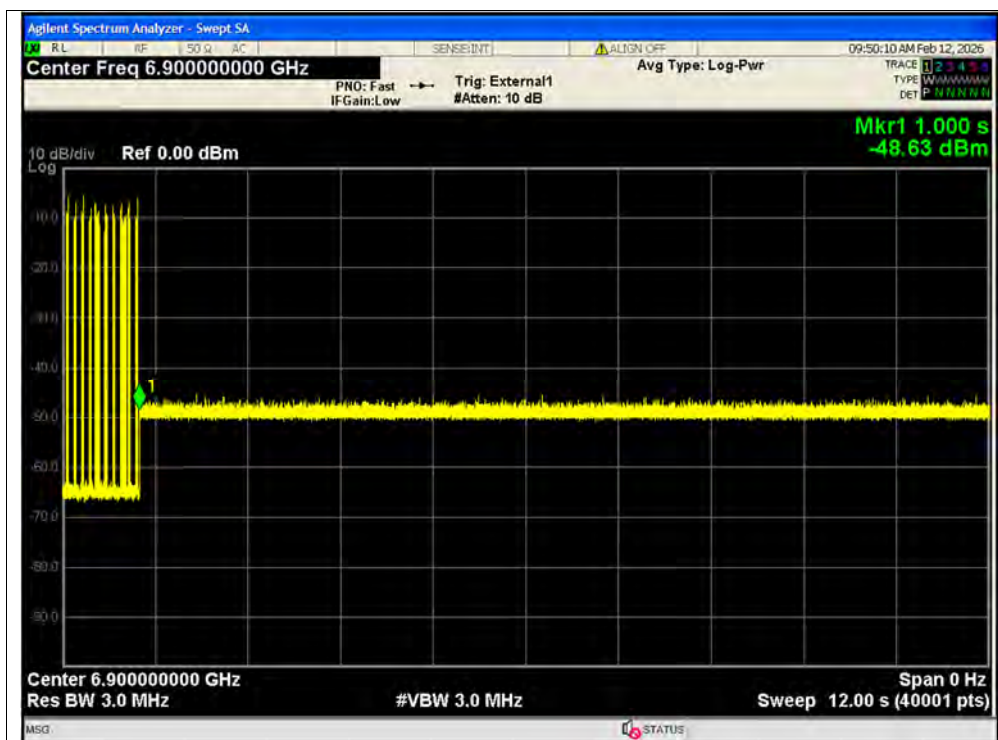
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_3



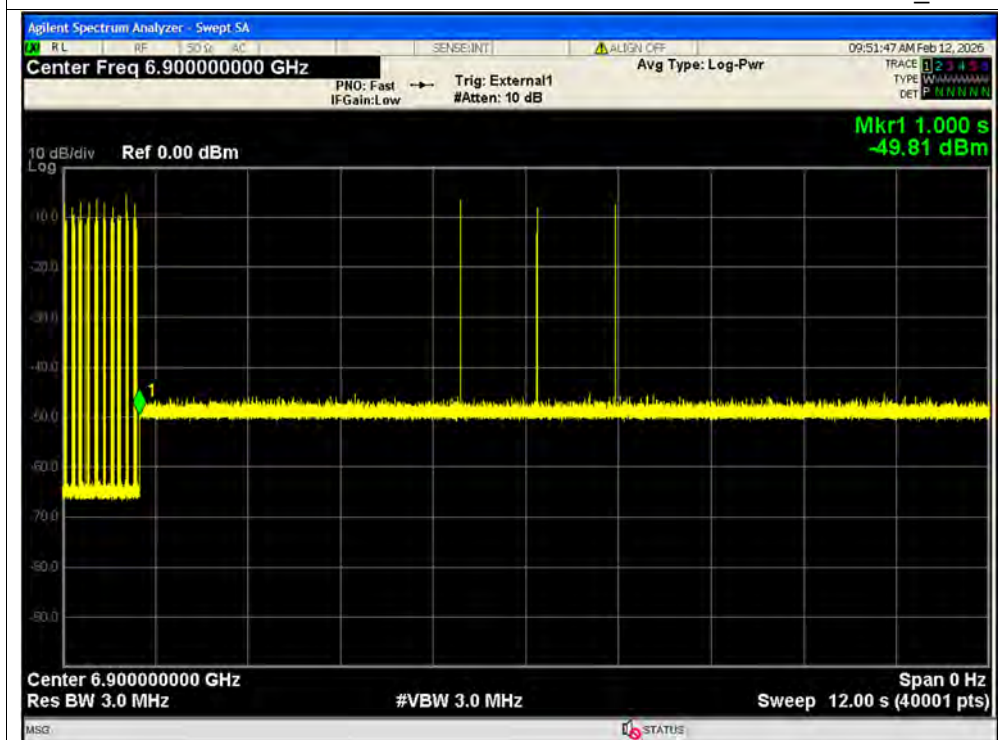
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_4



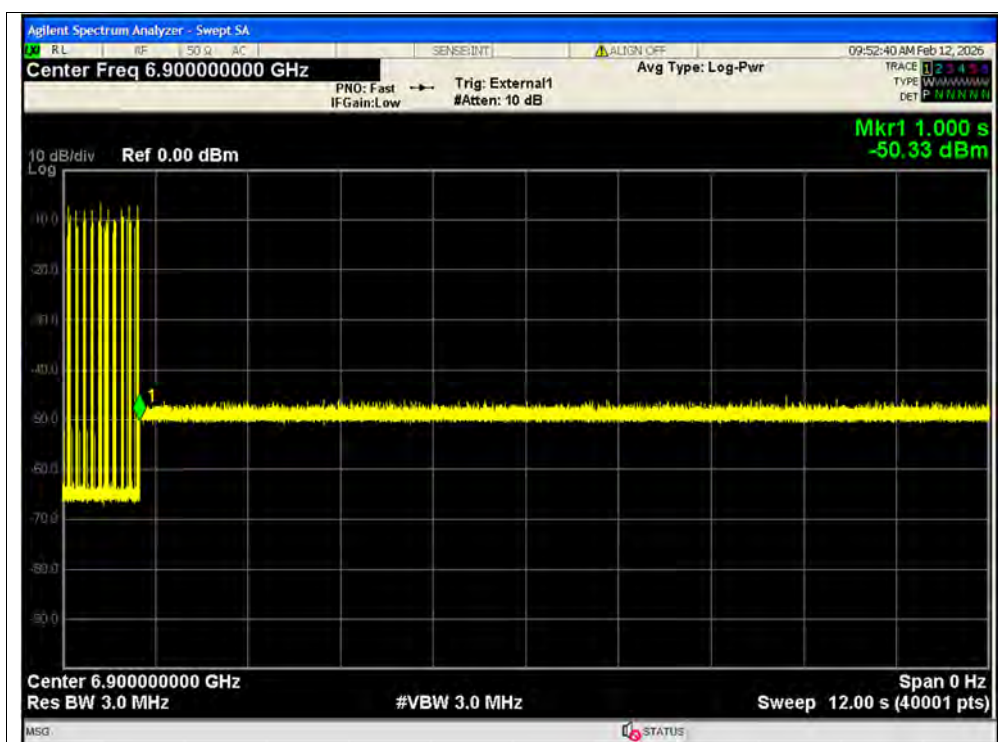
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_5



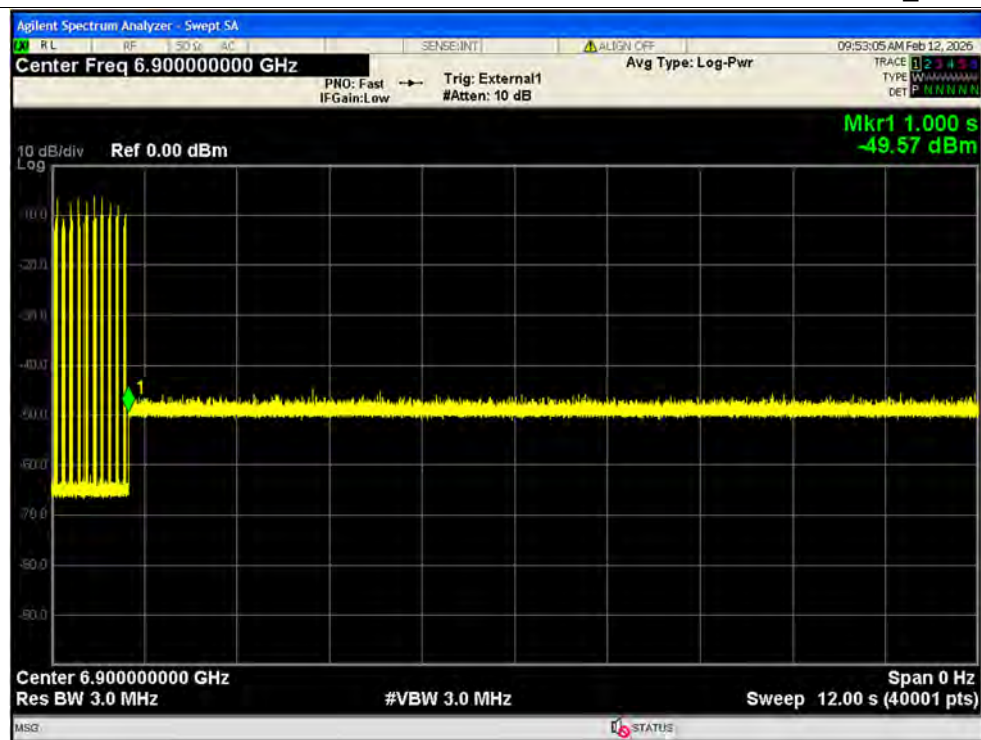
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_6



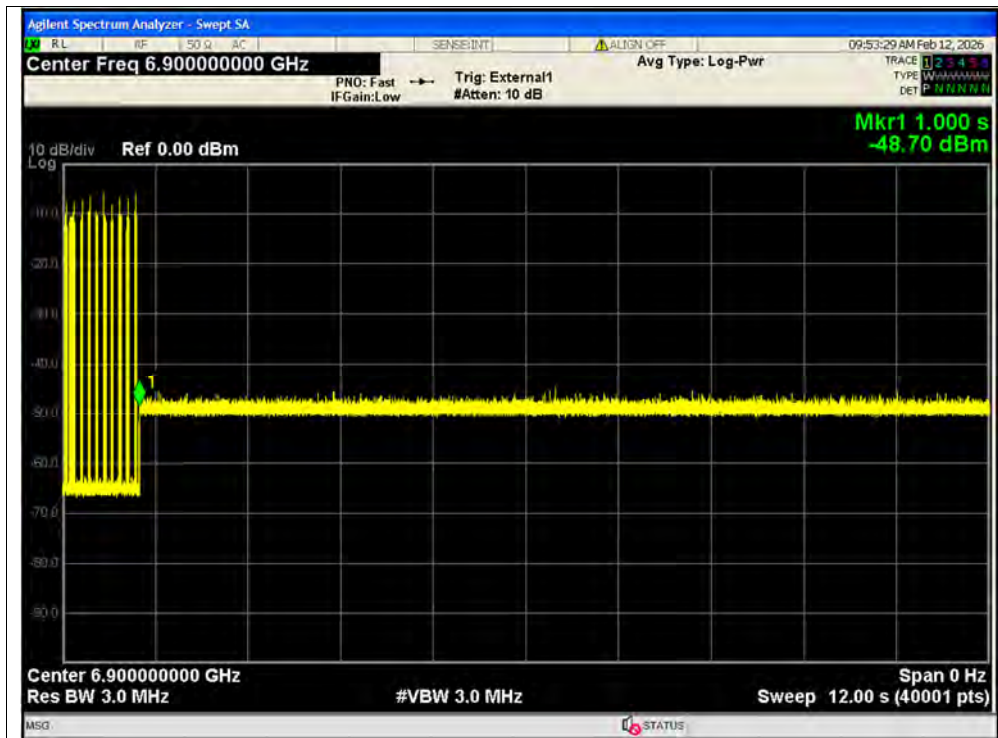
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_7



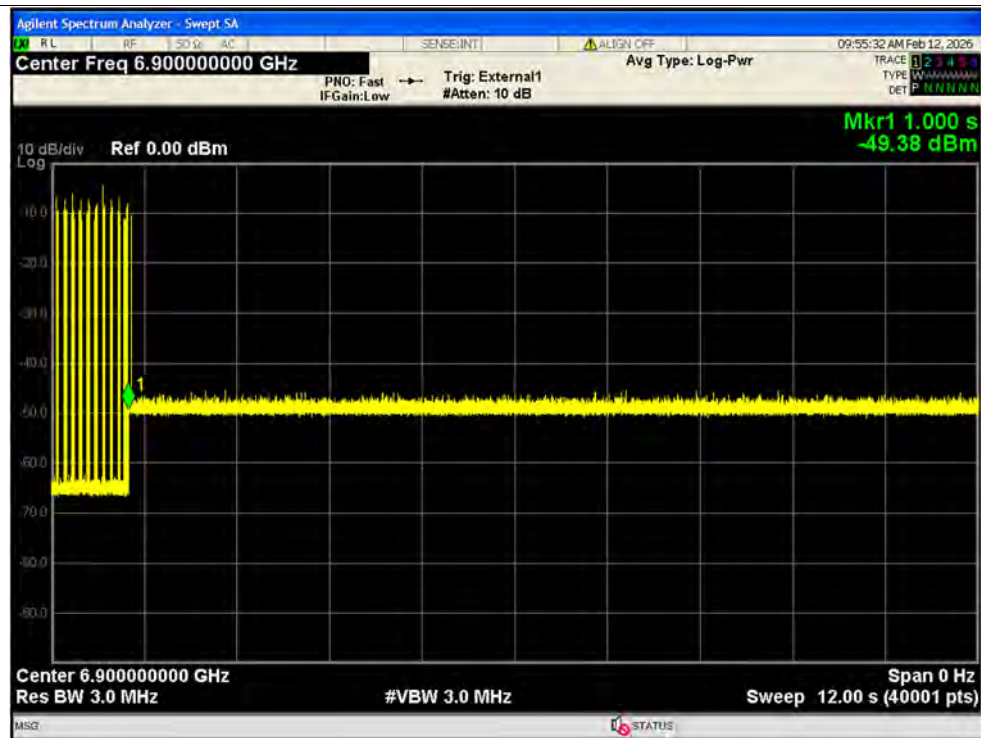
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_8



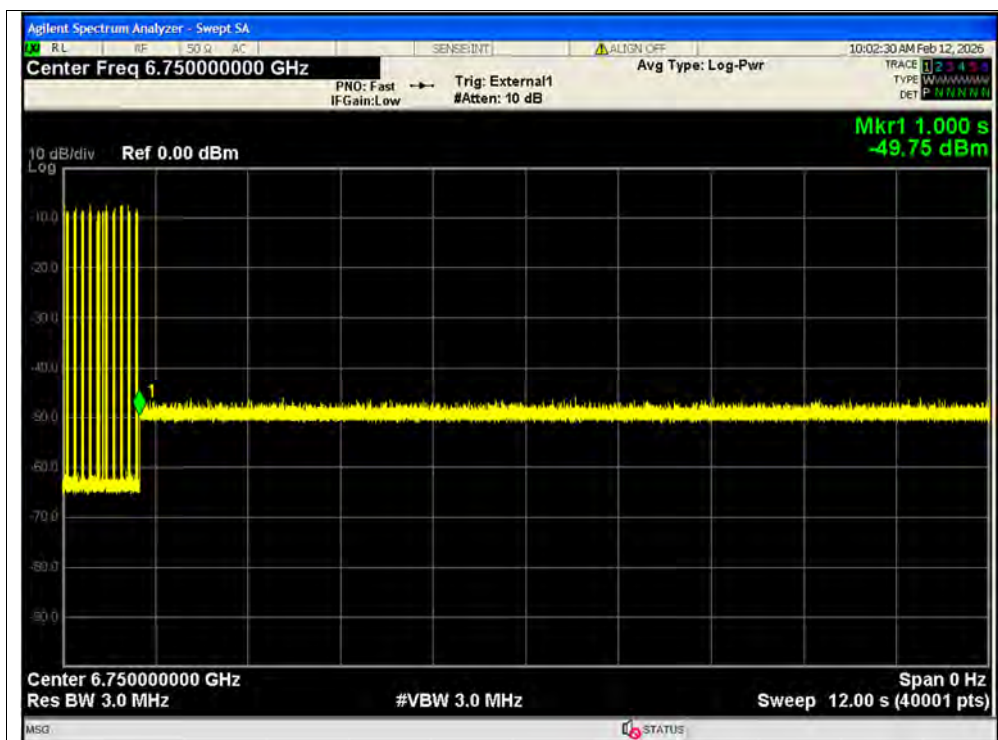
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_9



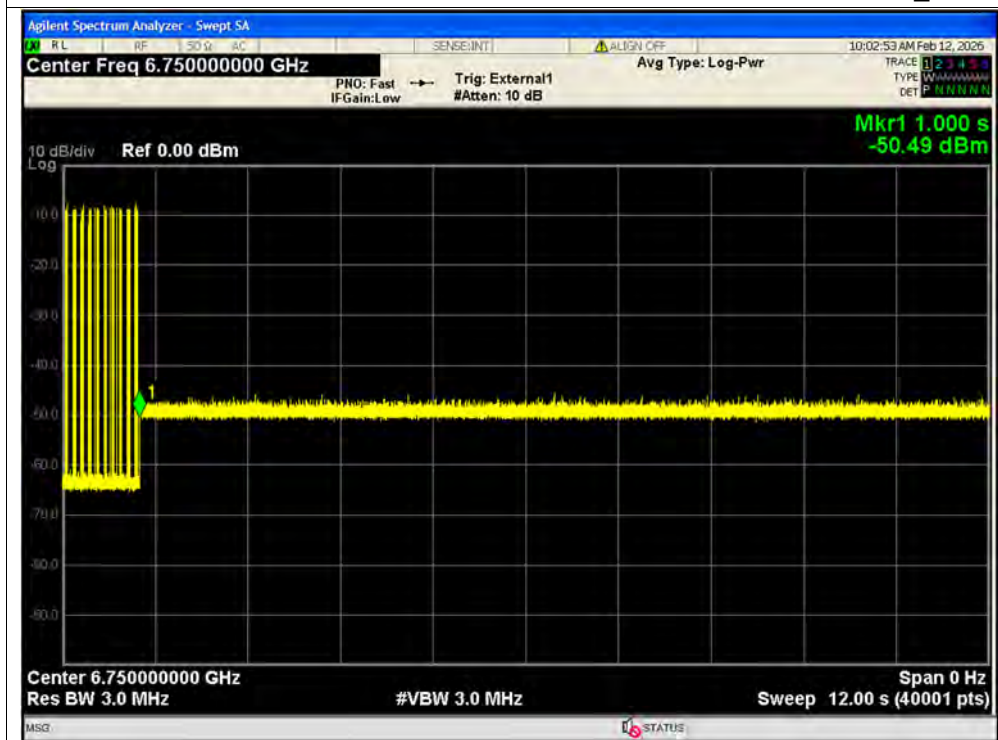
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_10



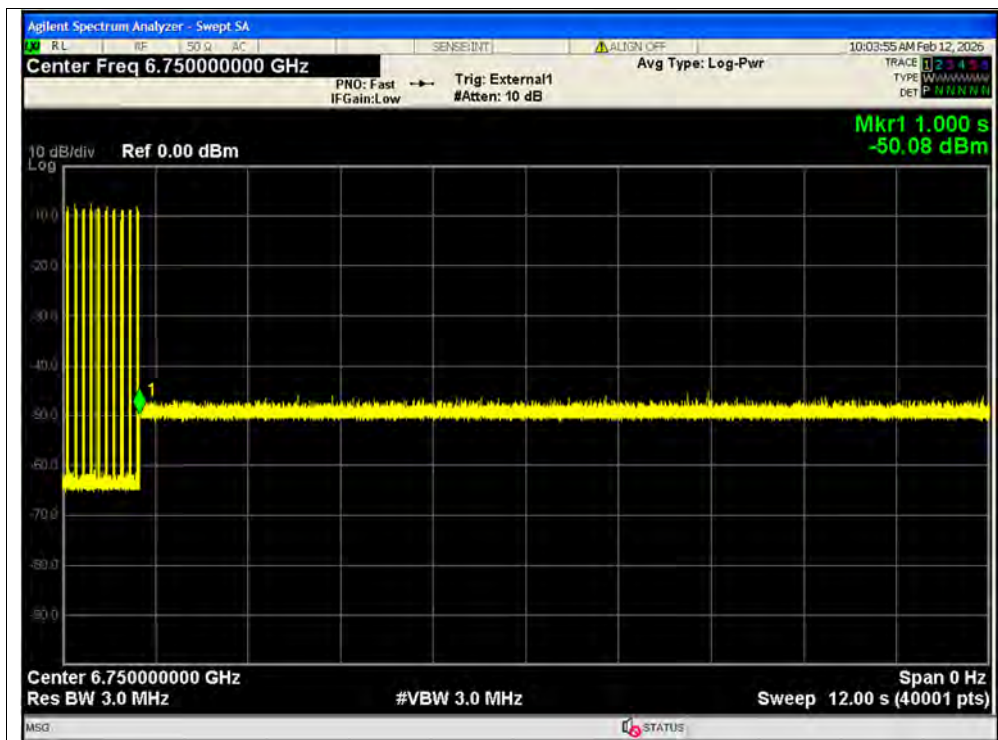
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_Minimum



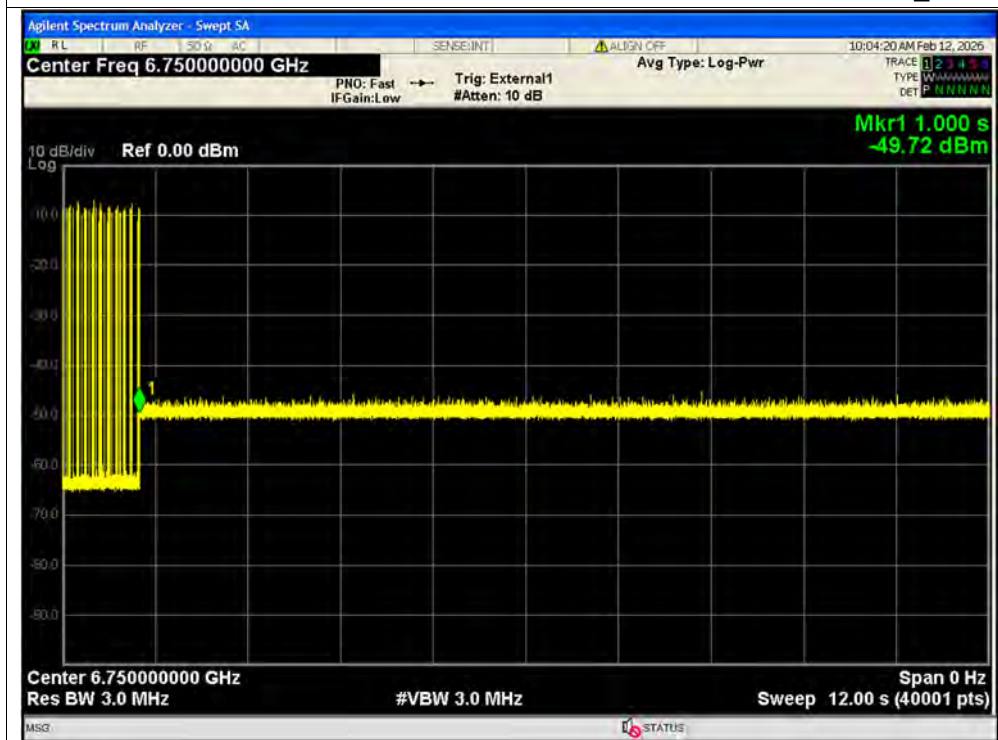
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_1



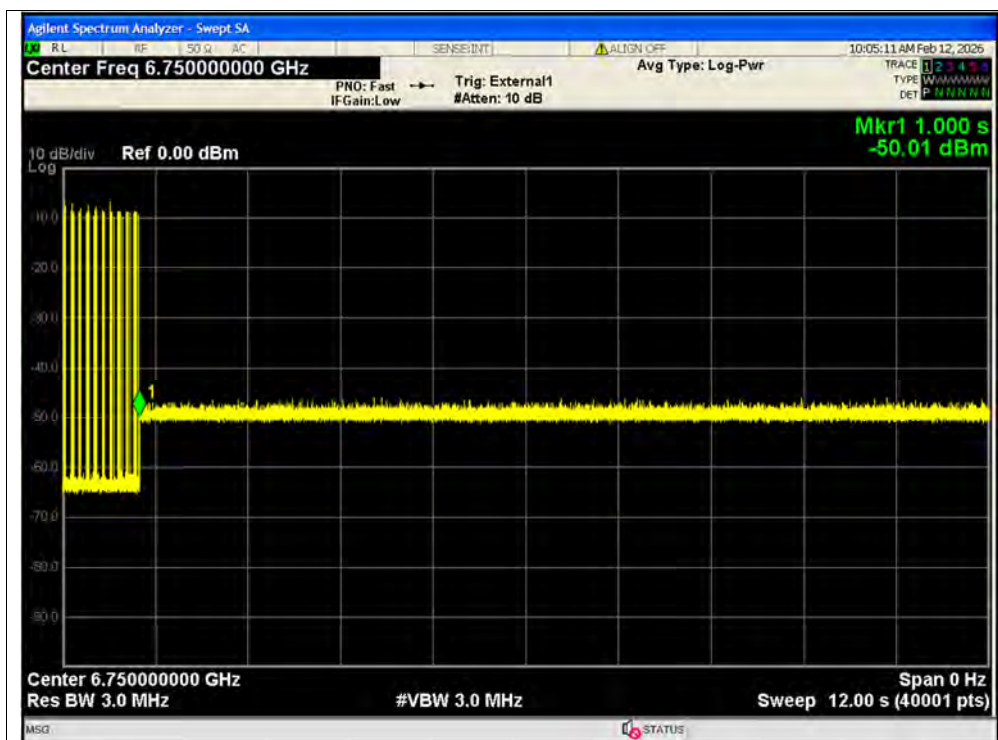
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_2



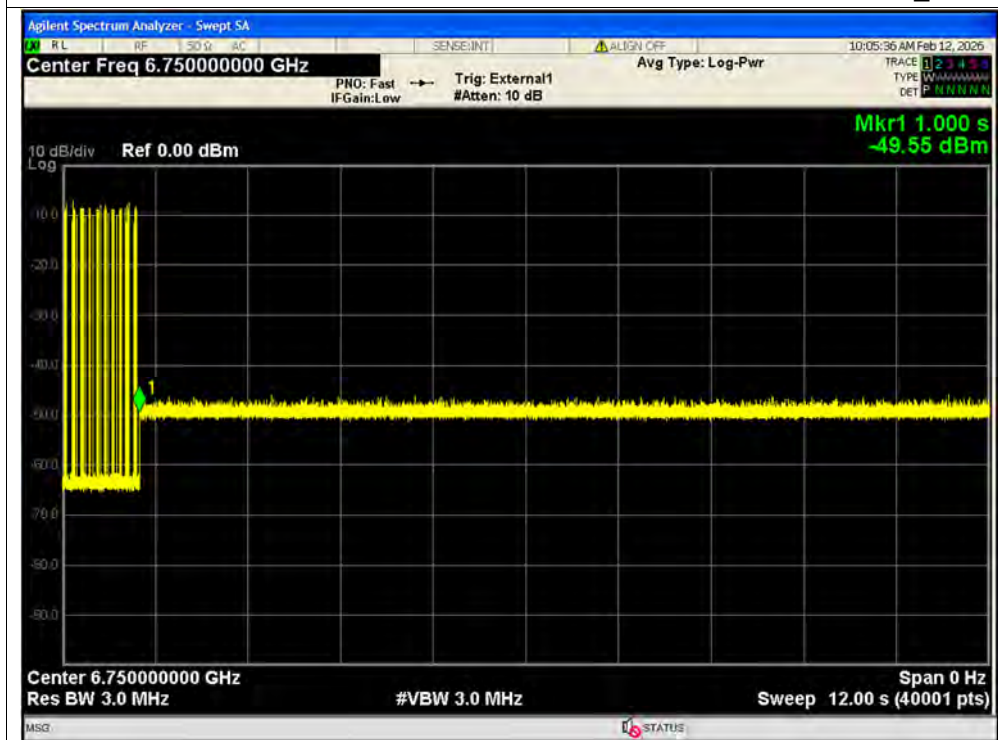
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_3



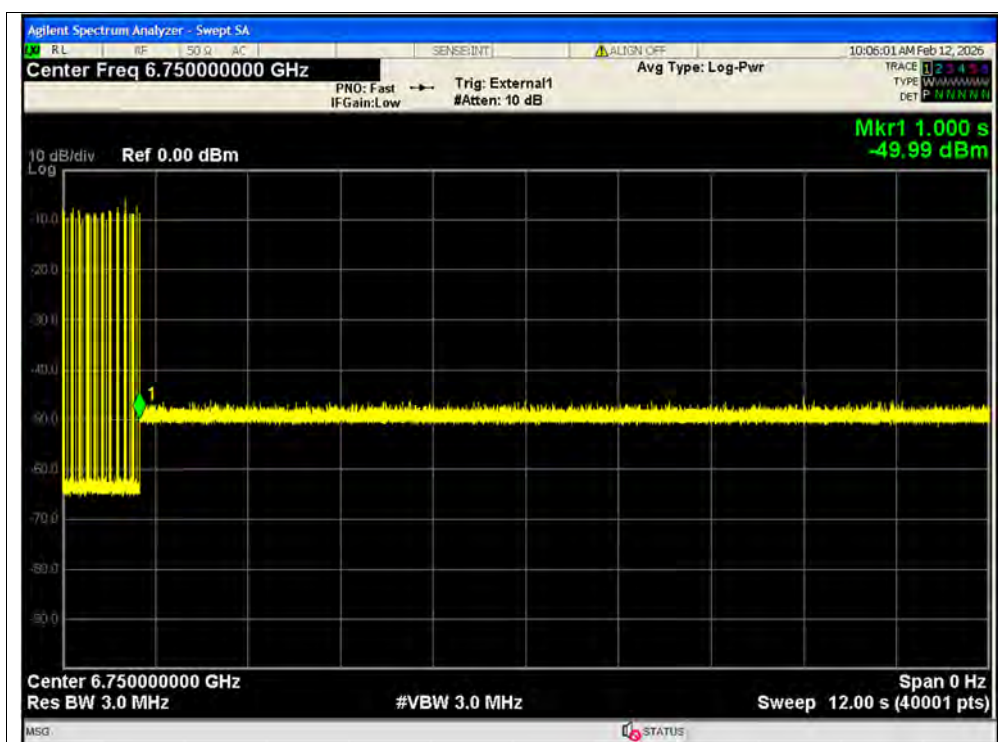
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_4



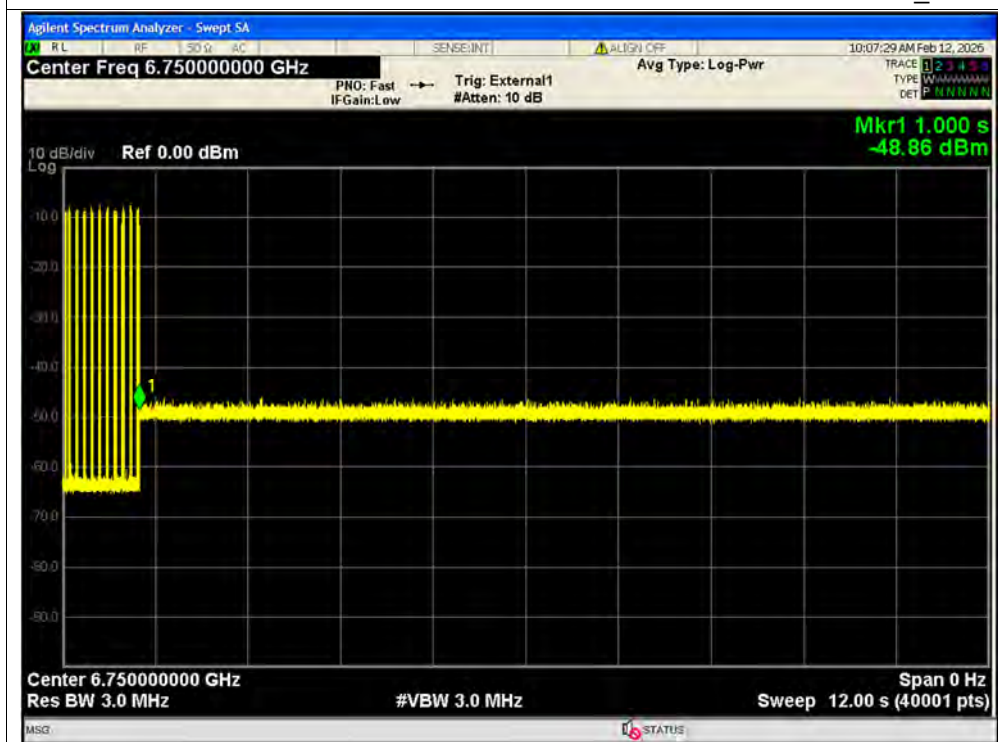
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_5



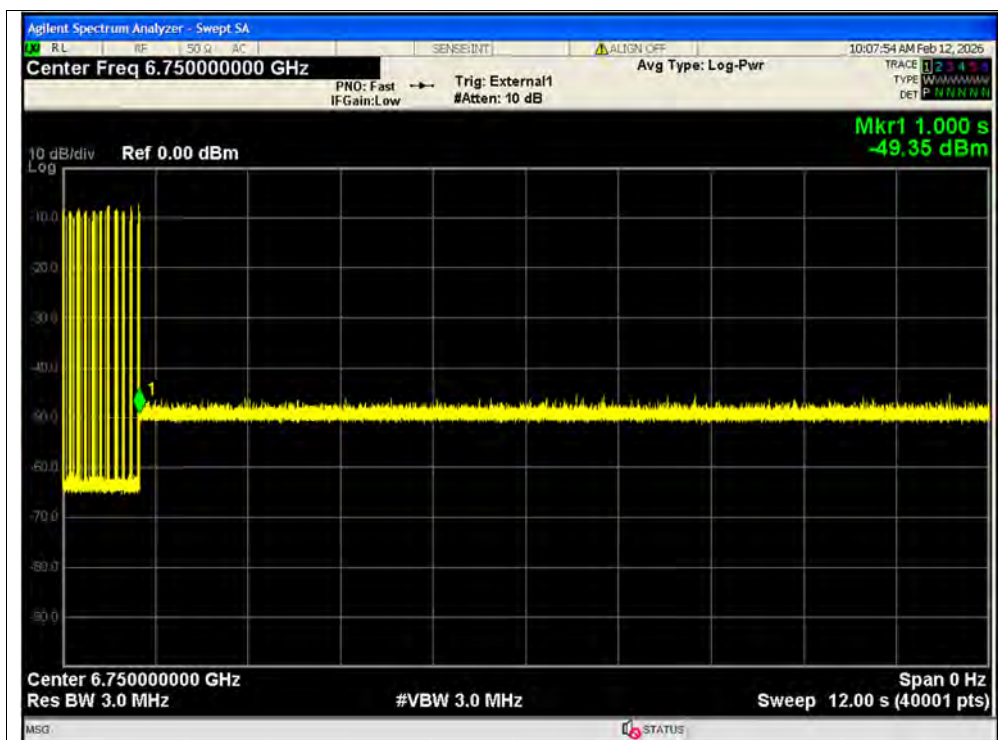
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_6



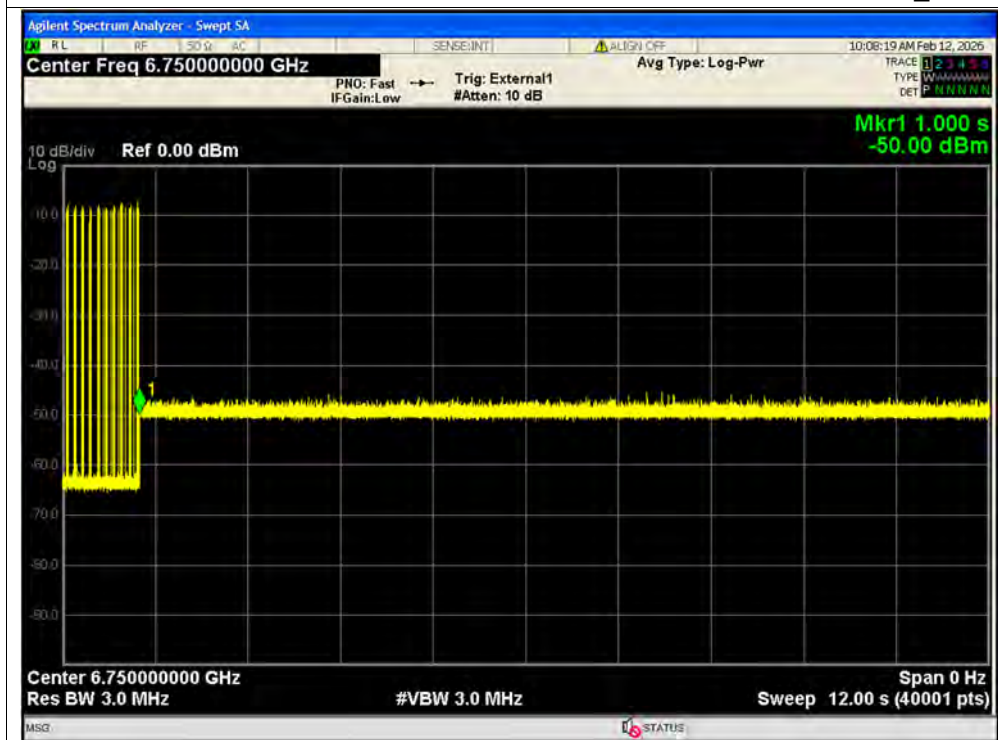
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_7



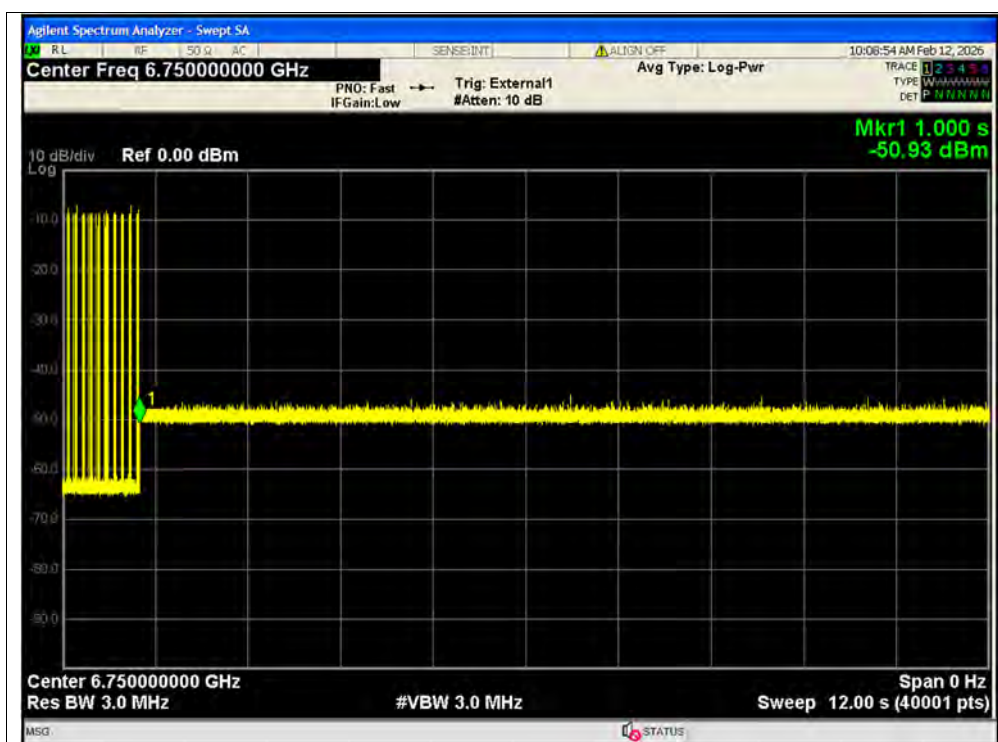
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_8



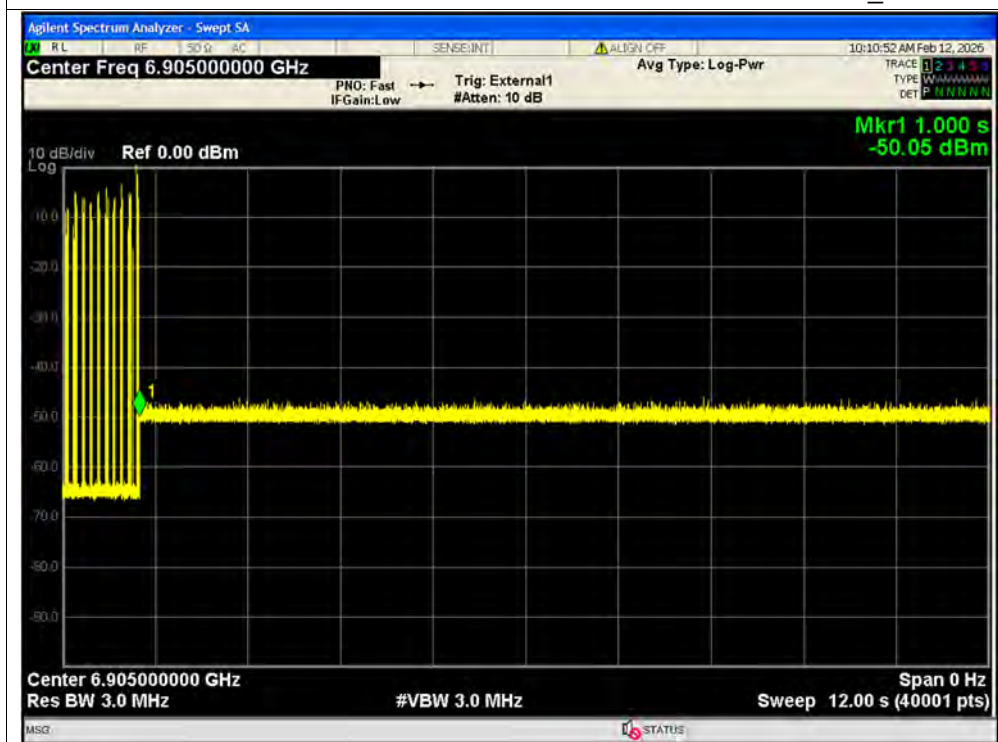
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_9



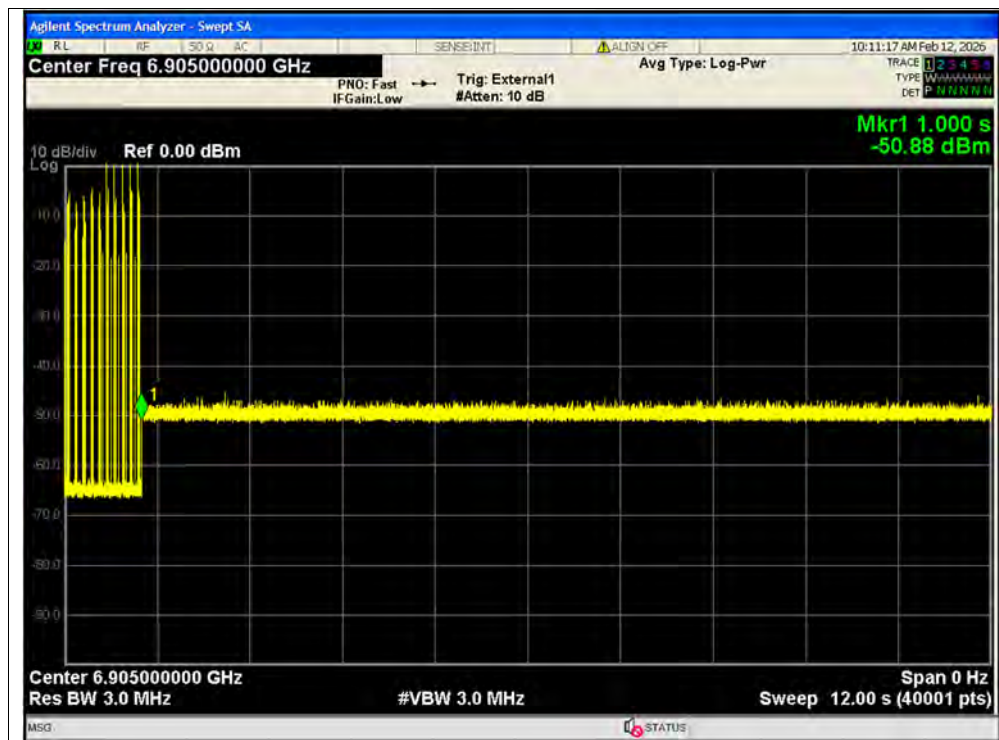
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_10



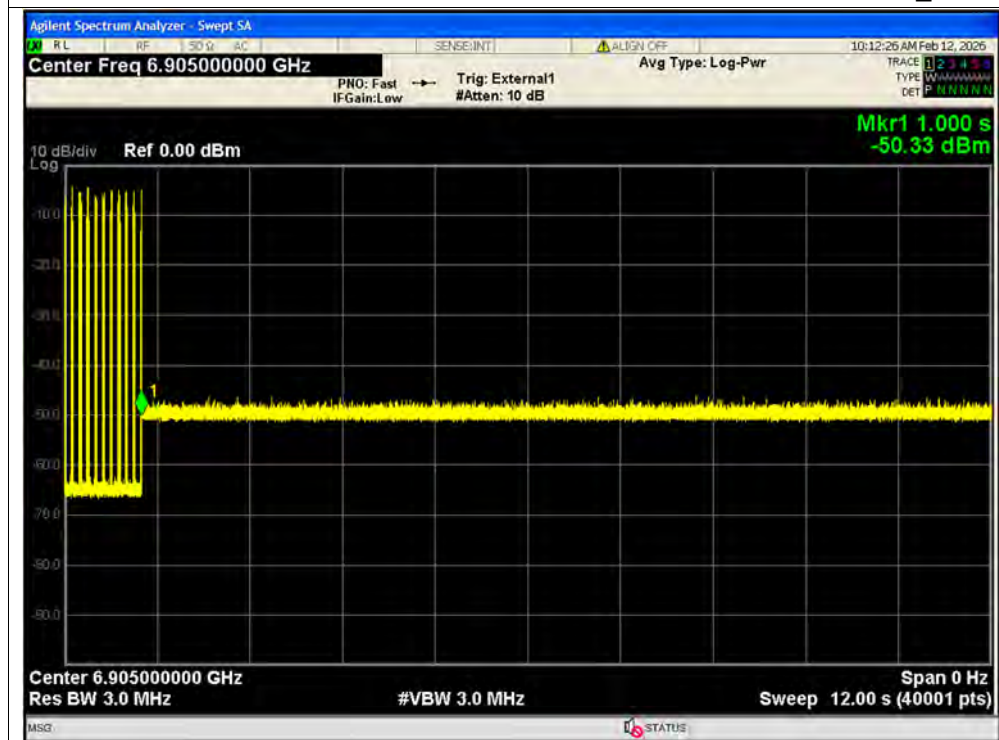
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_Minimum



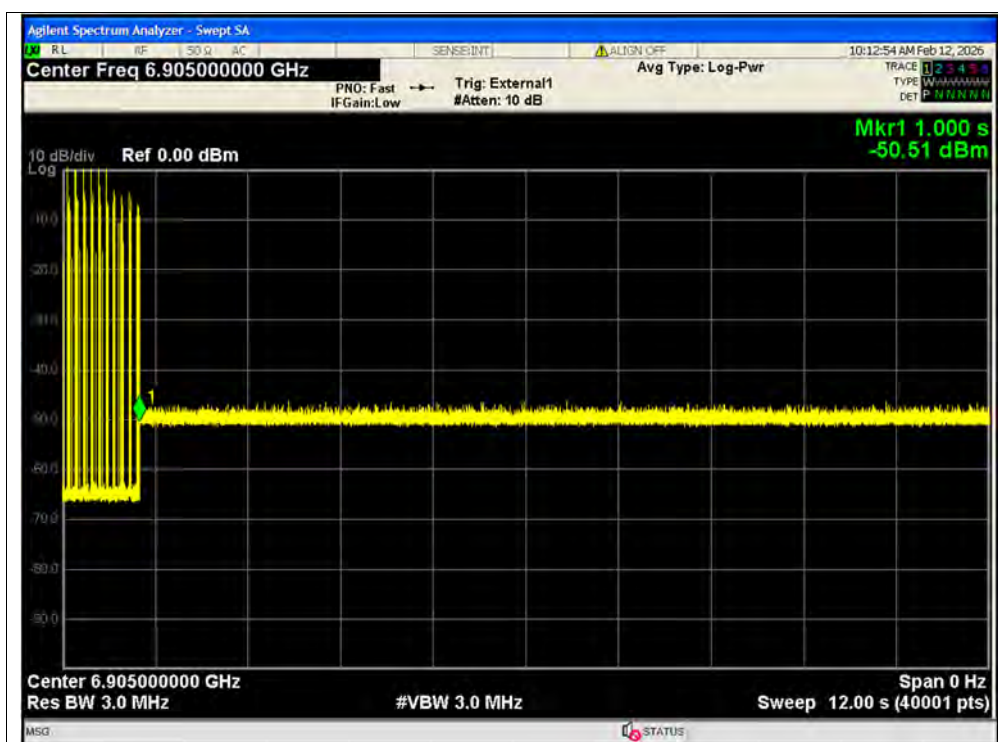
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_1



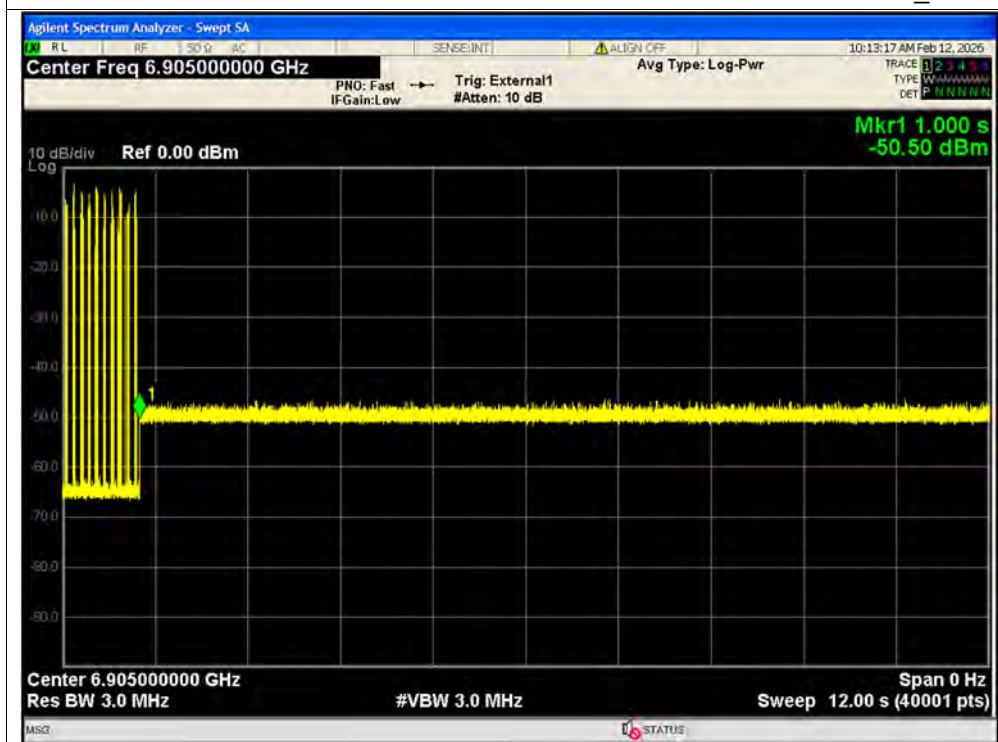
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_2



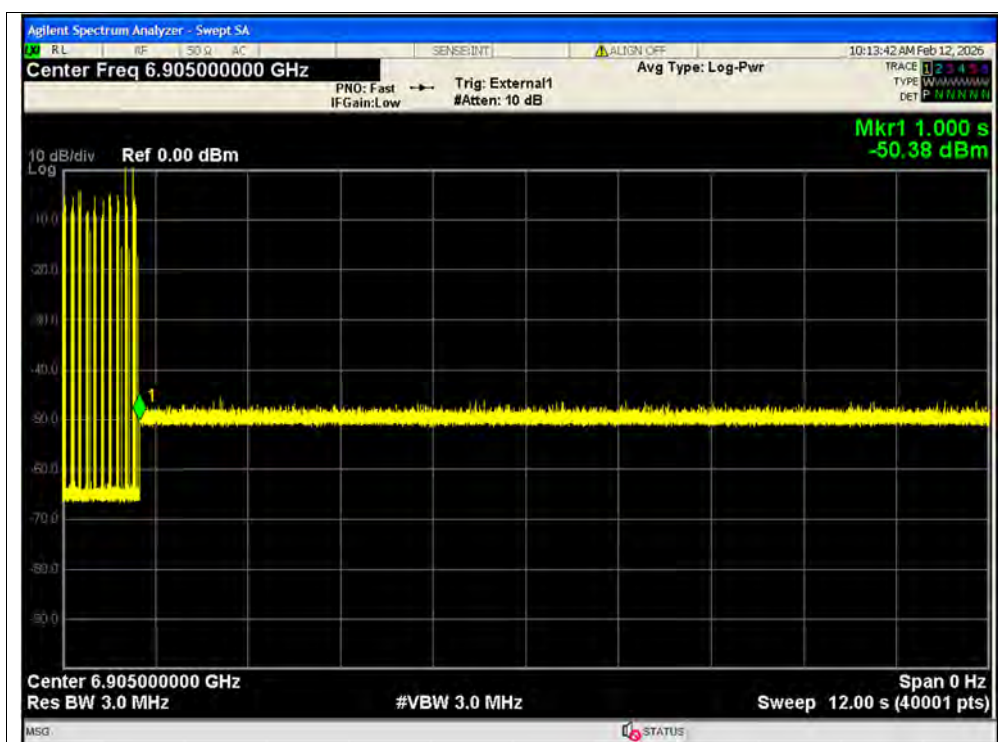
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_3



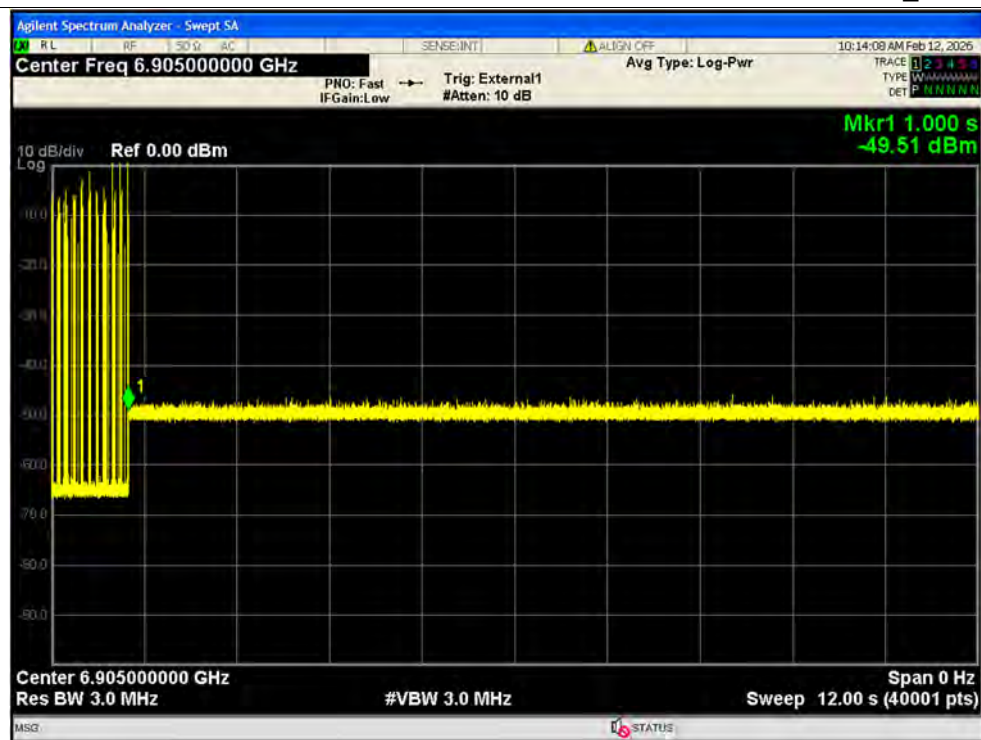
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_4



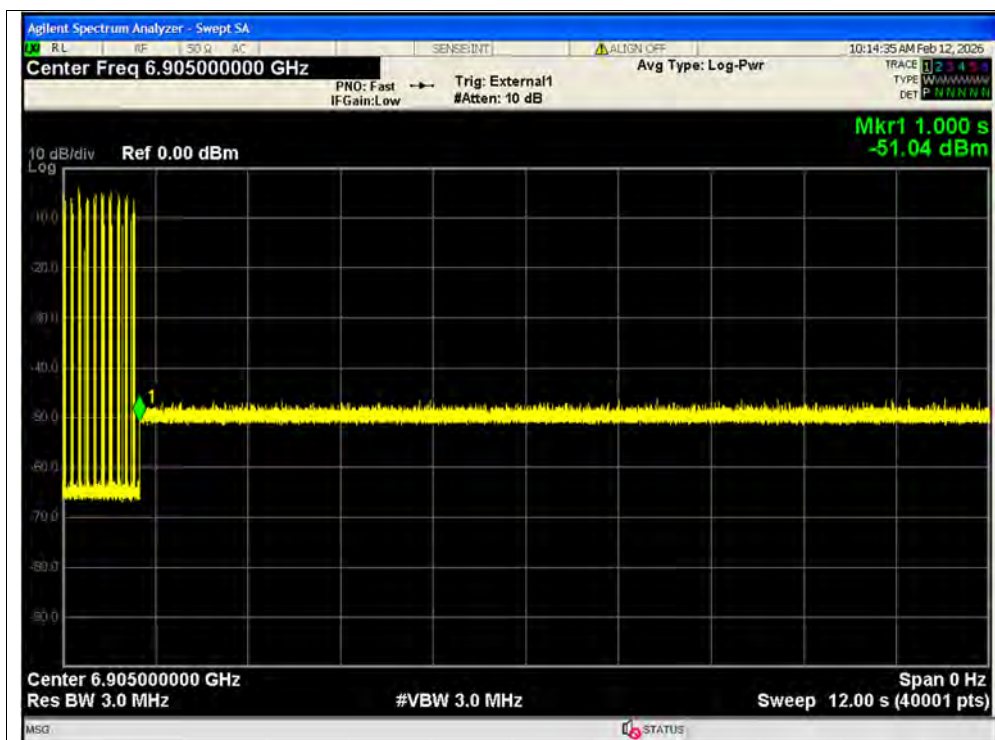
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_5



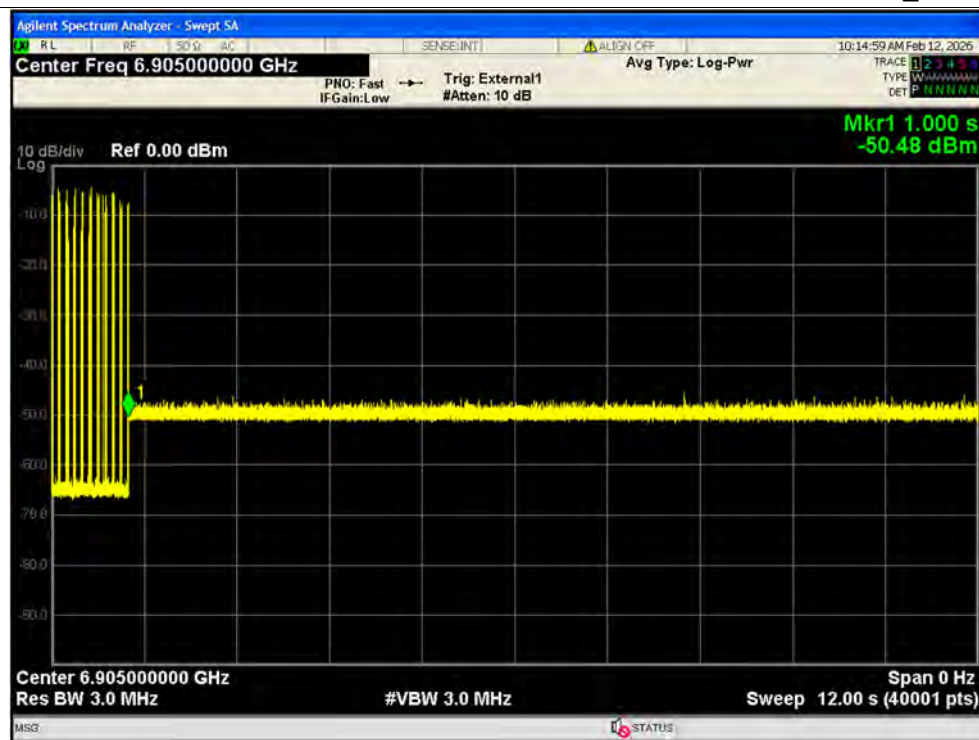
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_6



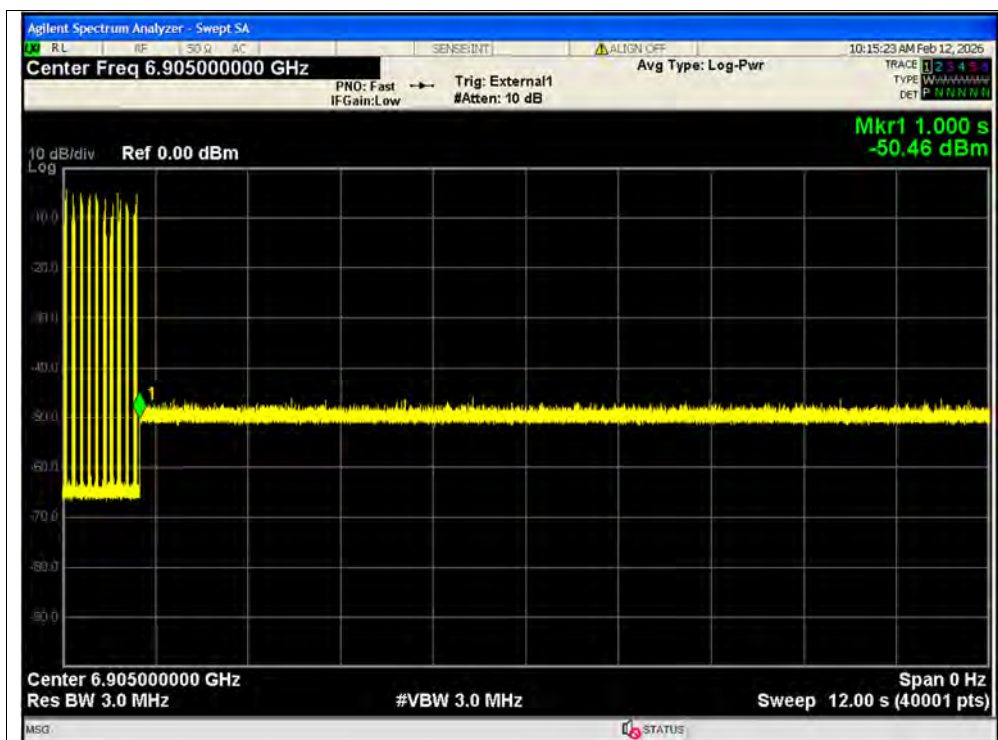
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_7



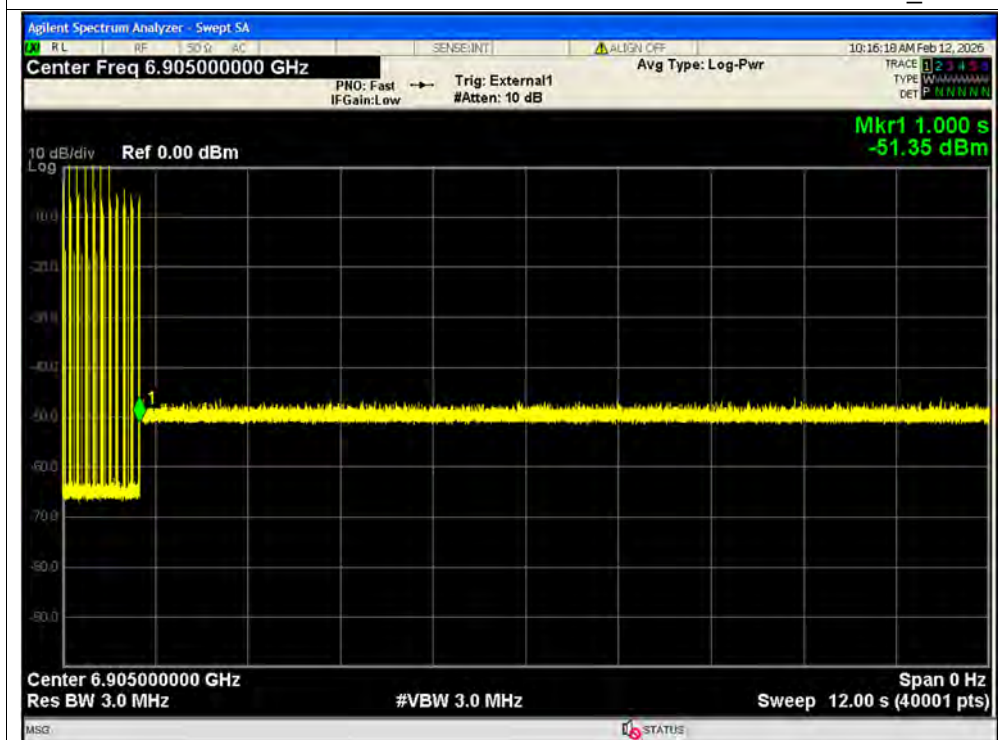
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_8



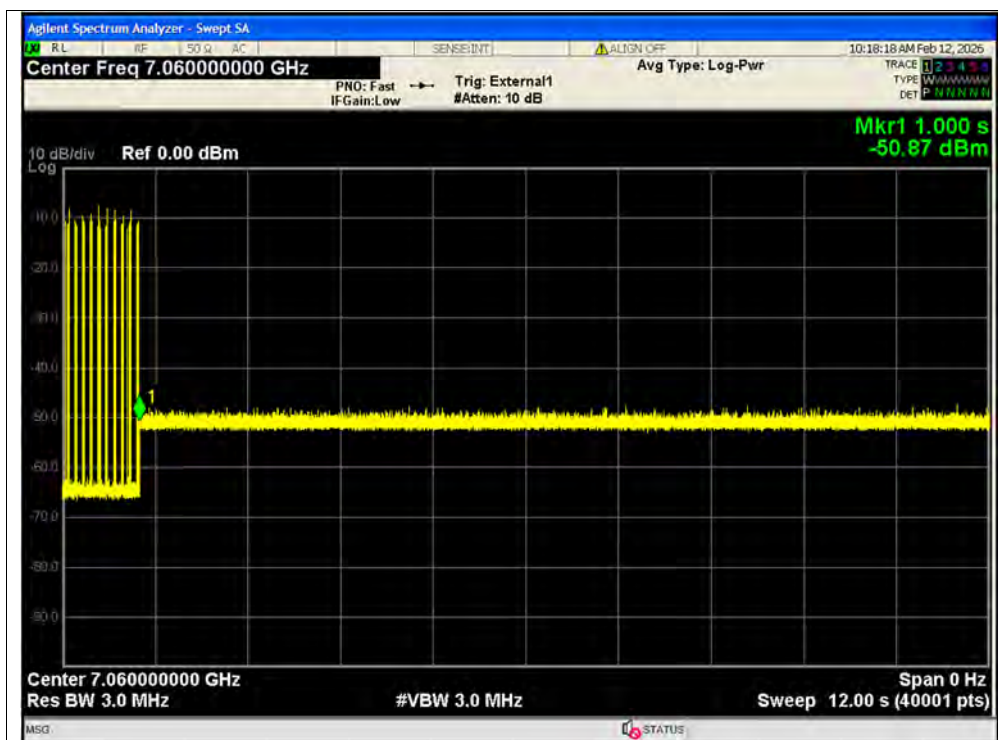
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_9



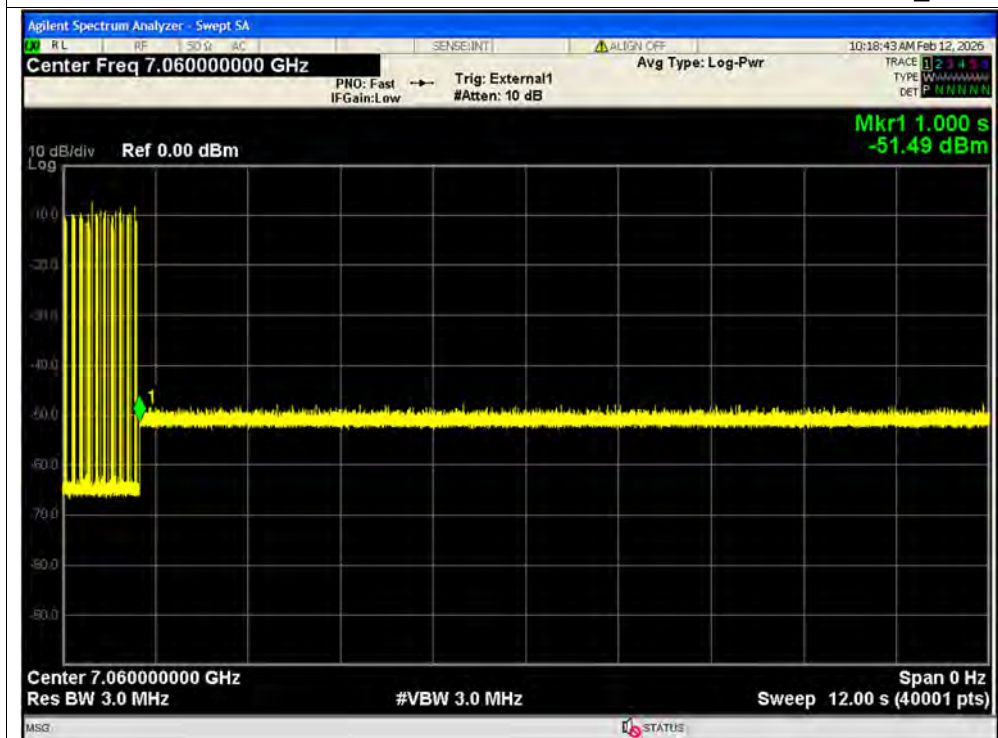
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_10



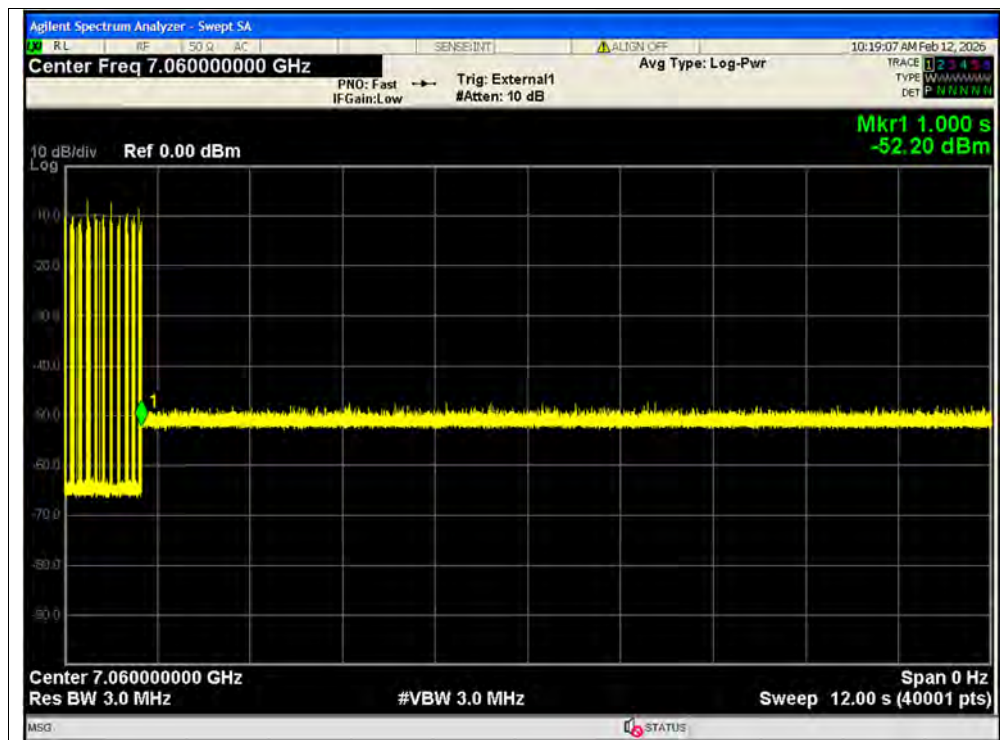
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_Minimum



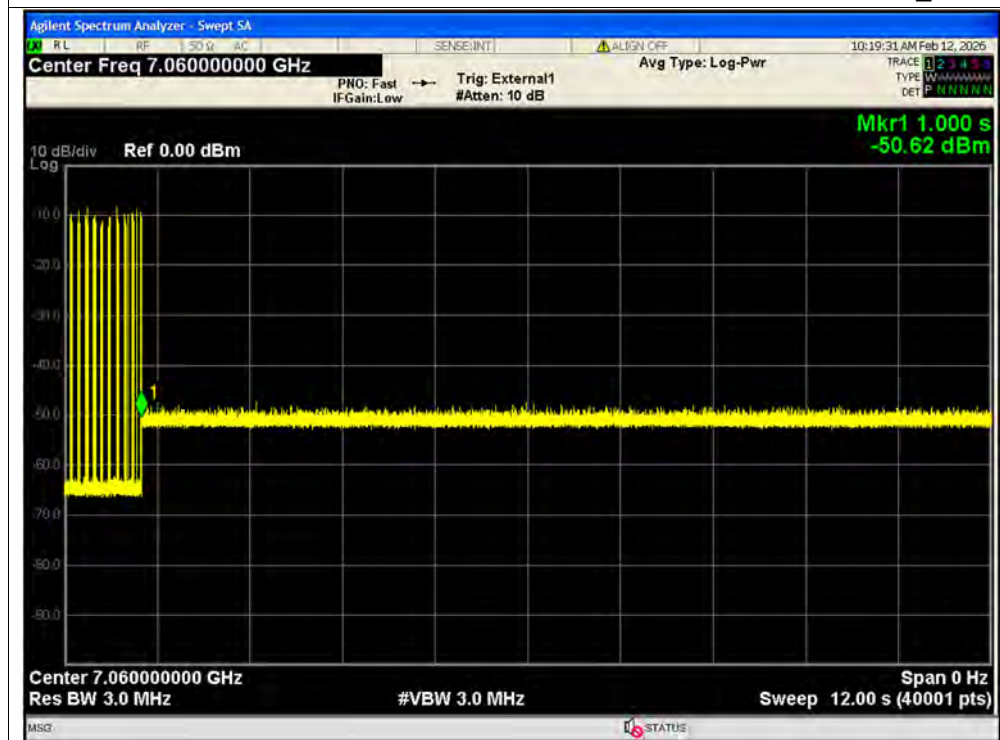
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_1



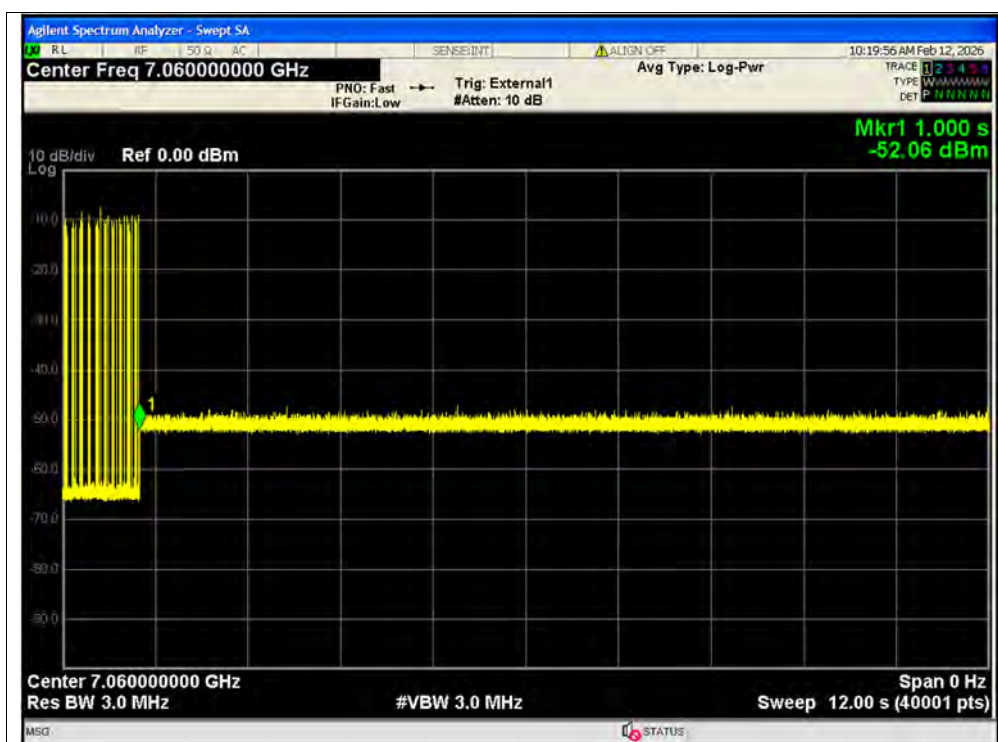
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_2



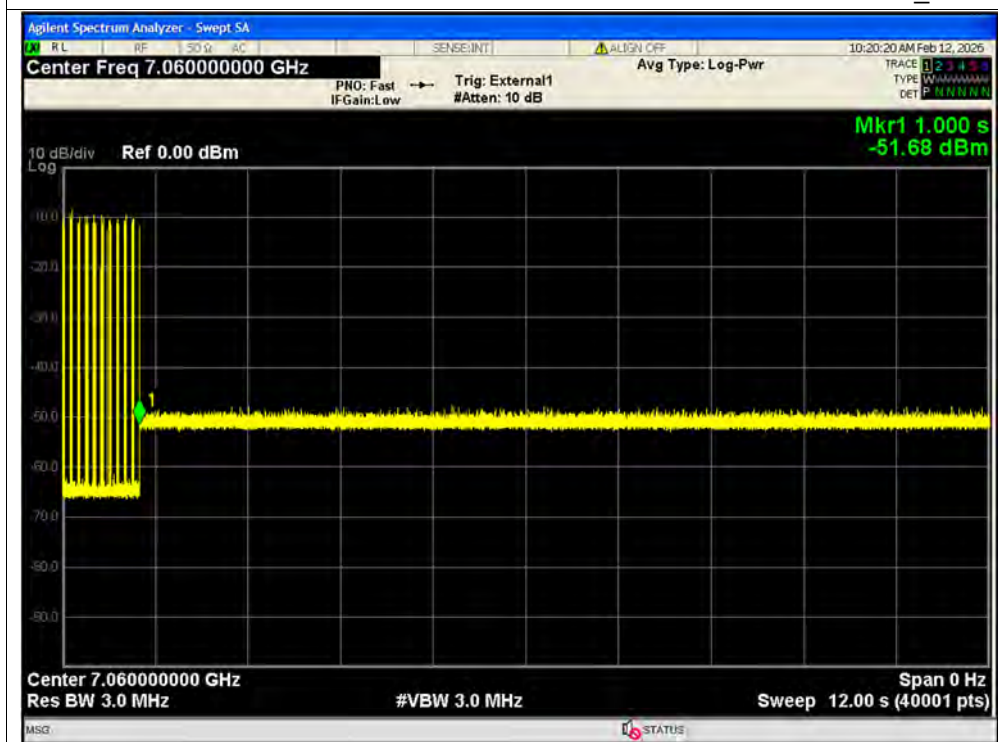
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_3



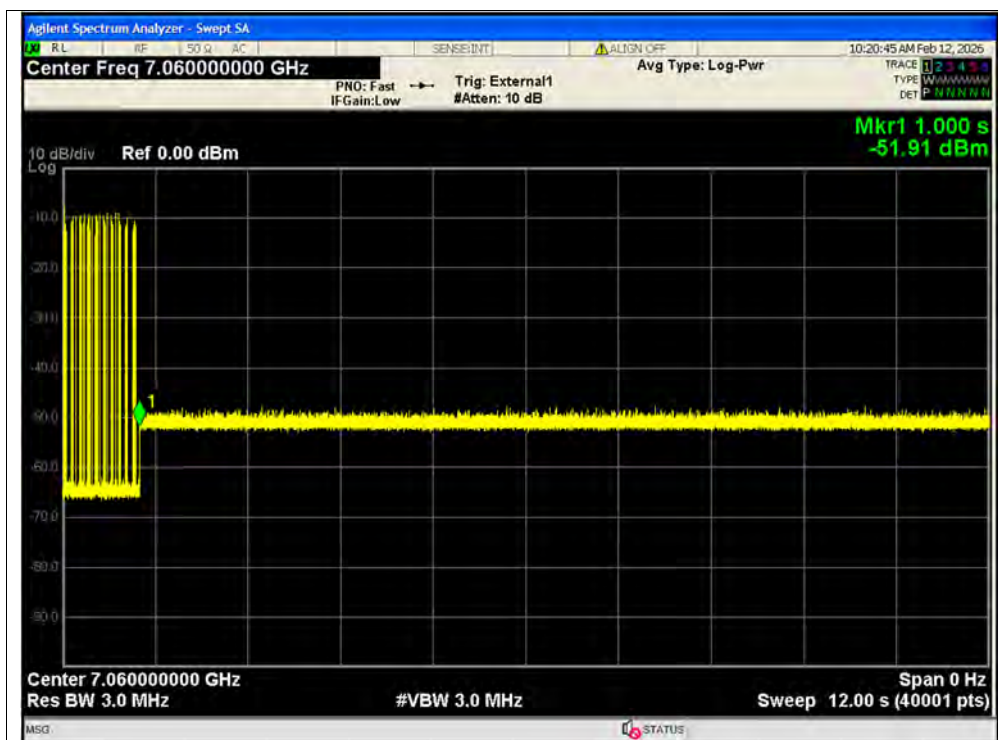
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_4



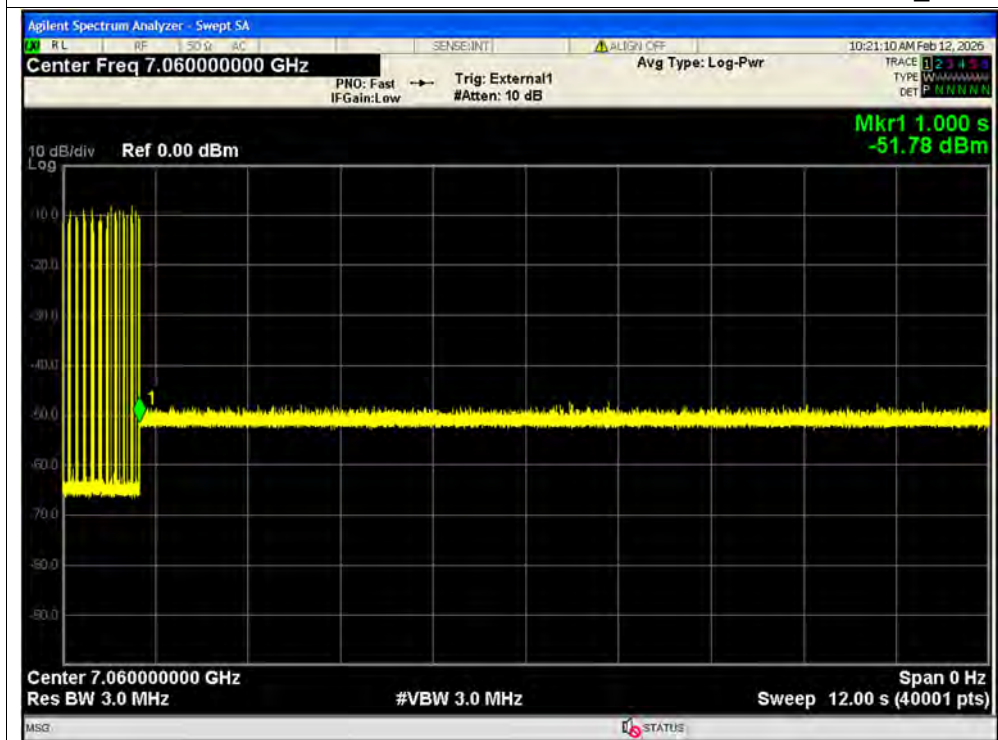
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_5



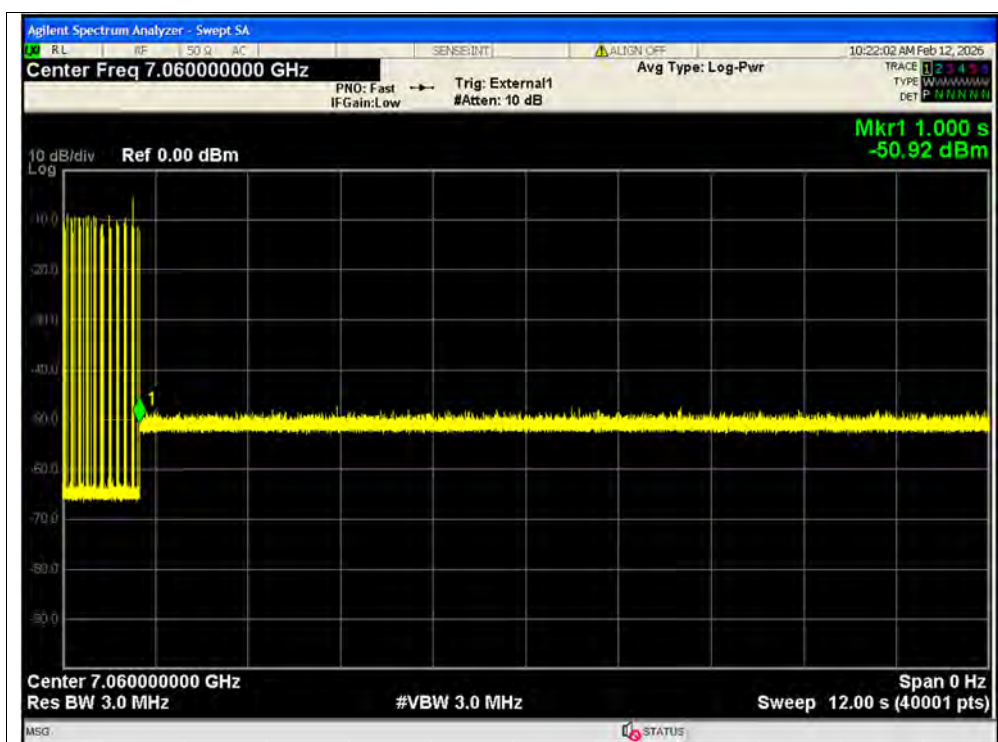
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_6



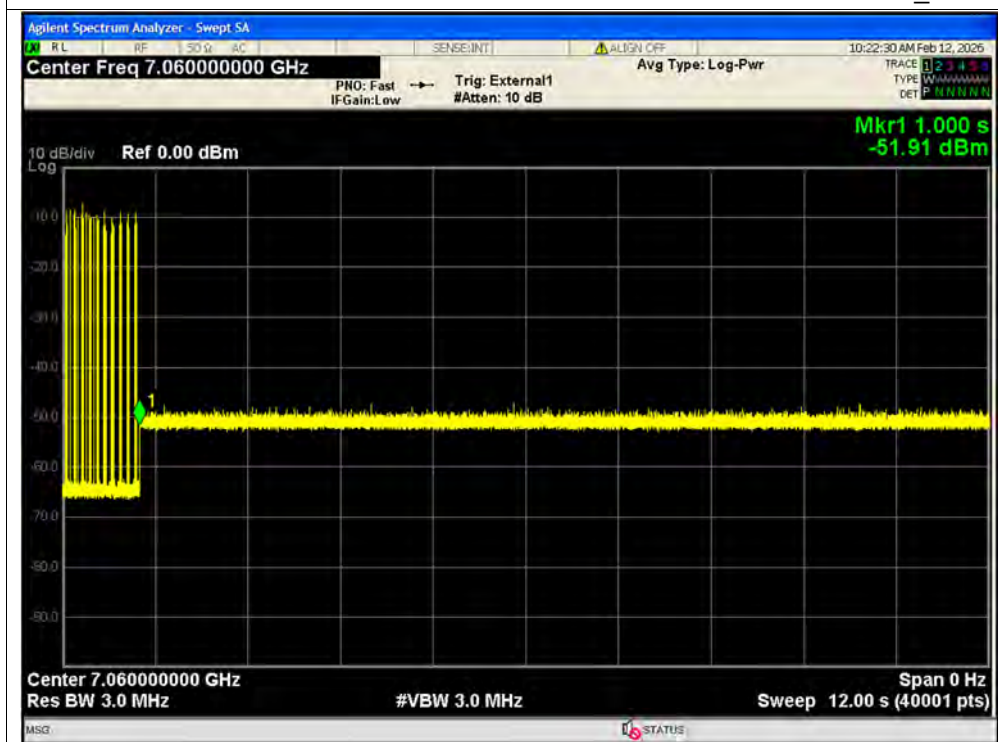
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_7



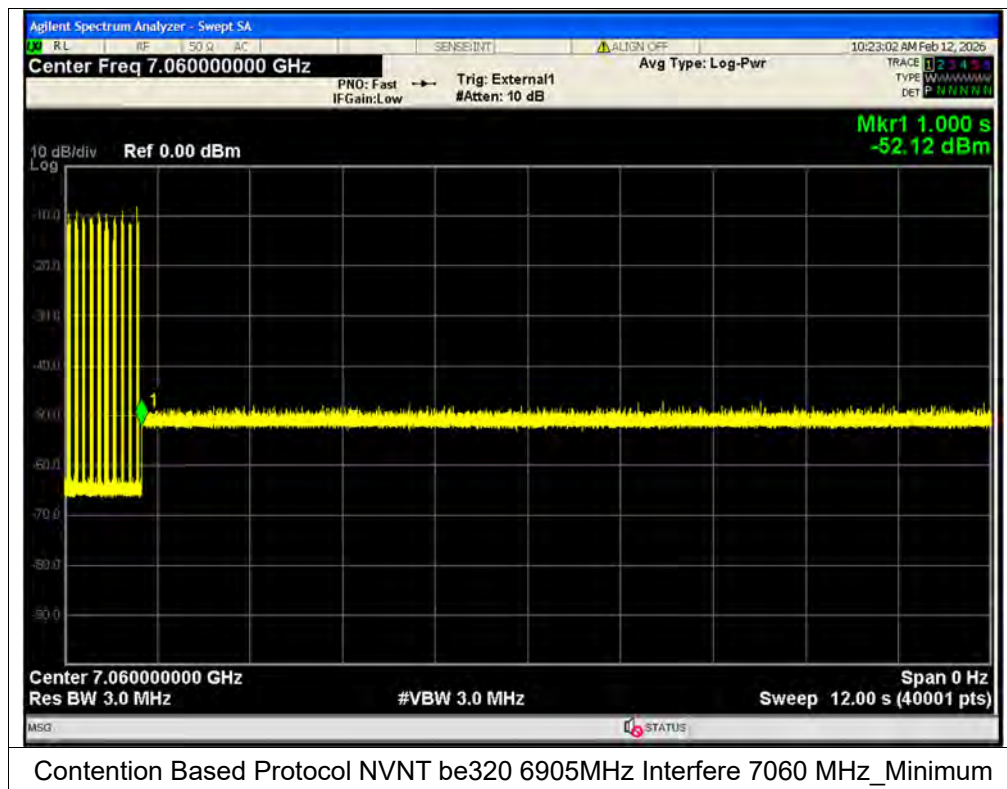
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_8



Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_9



Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_10



**c. Detection Probability Summary**

Condition	Mode	Frequency (MHz)	Antenna	AWGN Location	AWGN Frequency (MHz)	Test Number	Number Detected	Result (%)	Limit (%)	Verdict
NVNT	be20	6175	Ant1	Center	6175	10	10	100	90	Pass
NVNT	be20	6475	Ant1	Center	6475	10	10	100	90	Pass
NVNT	be20	6695	Ant1	Center	6695	10	10	100	90	Pass
NVNT	be20	6995	Ant1	Center	6995	10	10	100	90	Pass
NVNT	be320	6105	Ant1	Low	5950	10	10	100	90	Pass
NVNT	be320	6105	Ant1	Center	6105	10	10	100	90	Pass
NVNT	be320	6105	Ant1	High	6260	10	10	100	90	Pass
NVNT	be320	6745	Ant1	Low	6590	10	10	100	90	Pass
NVNT	be320	6745	Ant1	Center	6745	10	9	90	90	Pass
NVNT	be320	6745	Ant1	High	6900	10	9	90	90	Pass
NVNT	be320	6905	Ant1	Low	6750	10	10	100	90	Pass
NVNT	be320	6905	Ant1	Center	6905	10	10	100	90	Pass
NVNT	be320	6905	Ant1	High	7060	10	10	100	90	Pass
NVNT	be20	6175	Ant1	Center	6175	10	10	100	90	Pass
NVNT	be20	6475	Ant1	Center	6475	10	10	100	90	Pass
NVNT	be20	6695	Ant1	Center	6695	10	10	100	90	Pass

**A.7. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 6V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
20C 7.2V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
20C 8V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
-20C 7.2V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
-10C 7.2V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
0C 7.2V	CW	5955	Ant1	5955.02	20000	3.36	25	Pass
10C 7.2V	CW	5955	Ant1	5955.02	20000	3.36	25	Pass
30C 7.2V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
40C 7.2V	CW	5955	Ant1	5955.02	20000	3.36	25	Pass
50C 7.2V	CW	5955	Ant1	5955.019	19000	3.19	25	Pass
60C 7.2V	CW	5955	Ant1	5955.02	20000	3.36	25	Pass
20C 6V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
20C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
20C 8V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
-20C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
-10C 7.2V	CW	6435	Ant1	6435.021	21000	3.26	25	Pass
0C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
10C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
30C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
40C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
50C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
60C 7.2V	CW	6435	Ant1	6435.02	20000	3.11	25	Pass
20C 6V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
20C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
20C 8V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
-20C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
-10C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
0C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
10C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
30C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
40C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
50C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
60C 7.2V	CW	6535	Ant1	6535.02	20000	3.06	25	Pass
20C 6V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass



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20C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
20C 8V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
-20C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
-10C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
0C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
10C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
30C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
40C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass
50C 7.2V	CW	6875	Ant1	6875.02	20000	2.91	25	Pass
60C 7.2V	CW	6875	Ant1	6875.021	21000	3.05	25	Pass



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+Notebook+Notebook adapter+USB cable+WIFI TX

Test voltage: AC 120V/60Hz

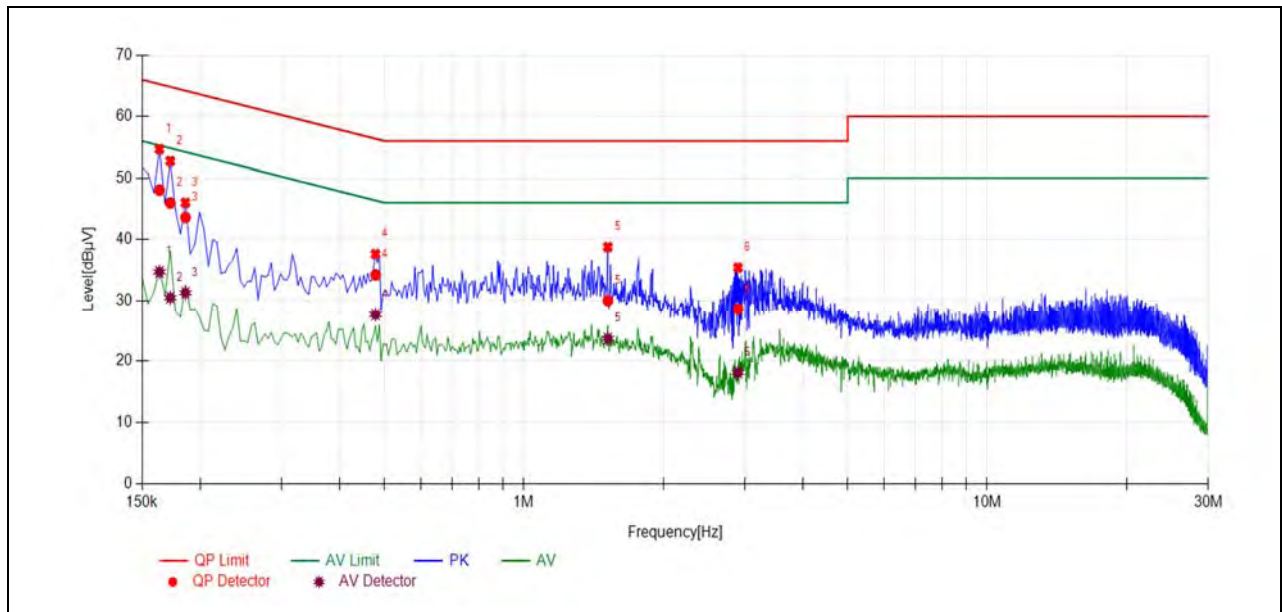
The measurement results are obtained as below:

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

U_R : Receiver Reading

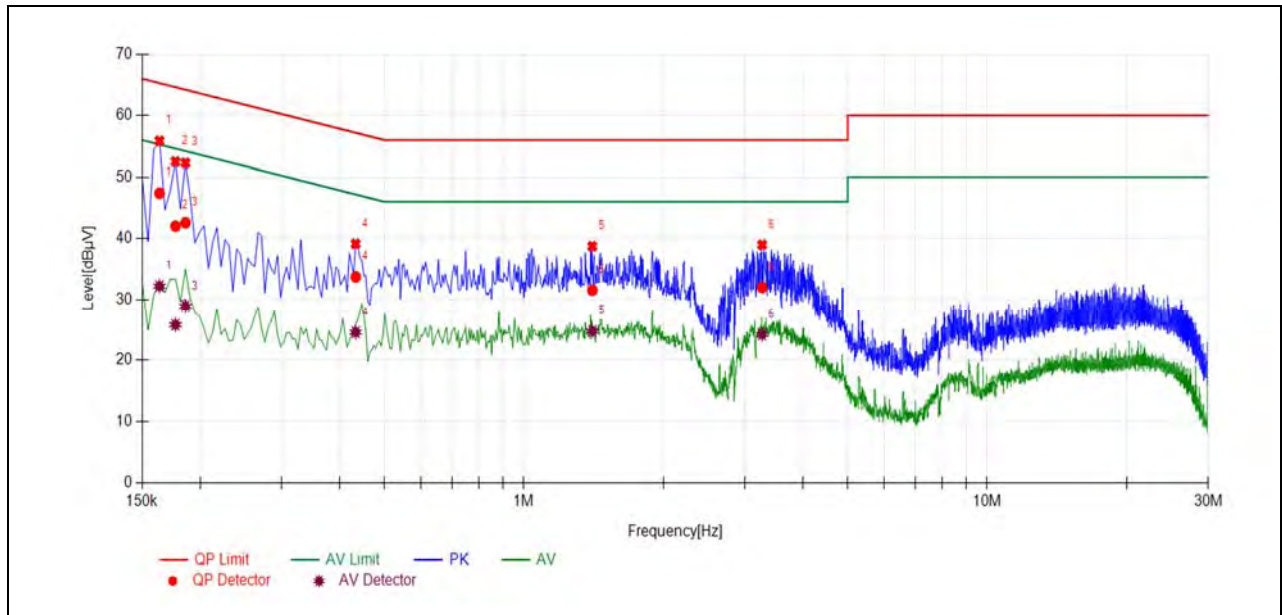
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	48.06	34.71	65.29	55.29	Line	PASS
2	0.1725	45.96	30.48	64.84	54.84		PASS
3	0.1860	43.60	31.28	64.21	54.21		PASS
4	0.4785	34.21	27.62	56.37	46.37		PASS
5	1.5180	29.98	23.66	56.00	46.00		PASS
6	2.8994	28.56	18.11	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	0.1635	47.39	32.21	65.28	55.28	Neutral	PASS
2	0.1770	42.03	25.78	64.63	54.63		PASS
3	0.1860	42.58	28.89	64.21	54.21		PASS
4	0.4335	33.72	24.55	57.18	47.18		PASS
5	1.4056	31.54	24.74	56.00	46.00		PASS
6	3.2684	32.00	24.17	56.00	46.00		PASS

A.9. Restricted Frequency Bands

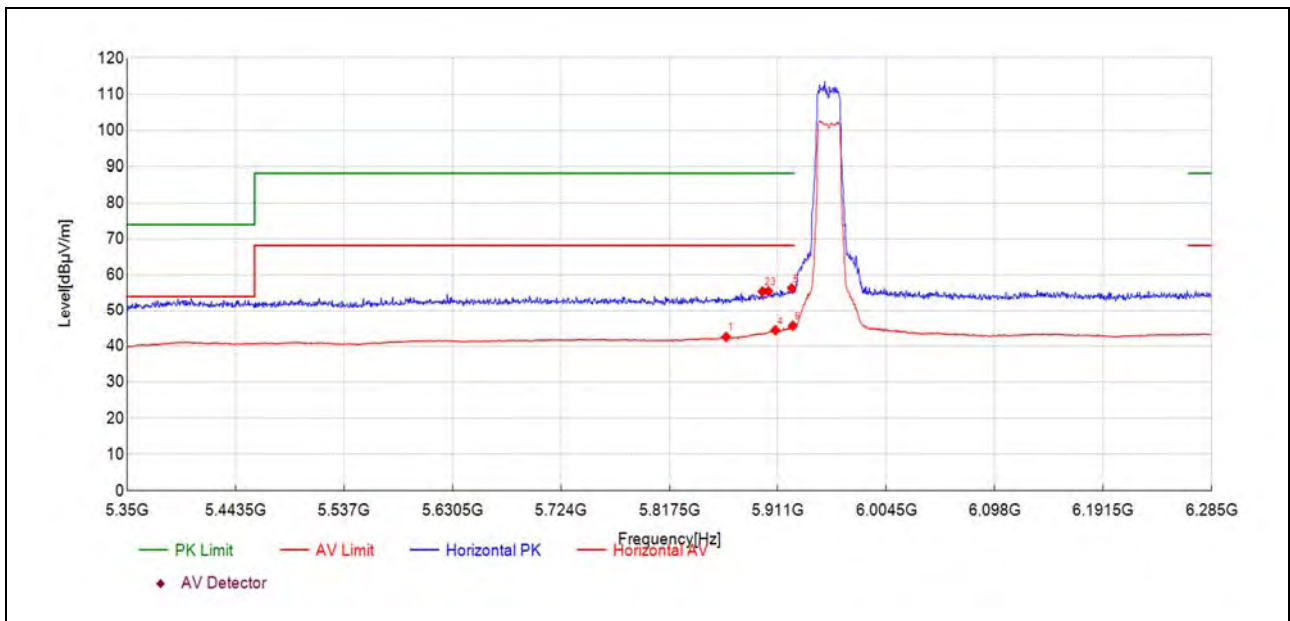
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.

Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (X axis) test condition was recorded in this test report.

Note 3: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

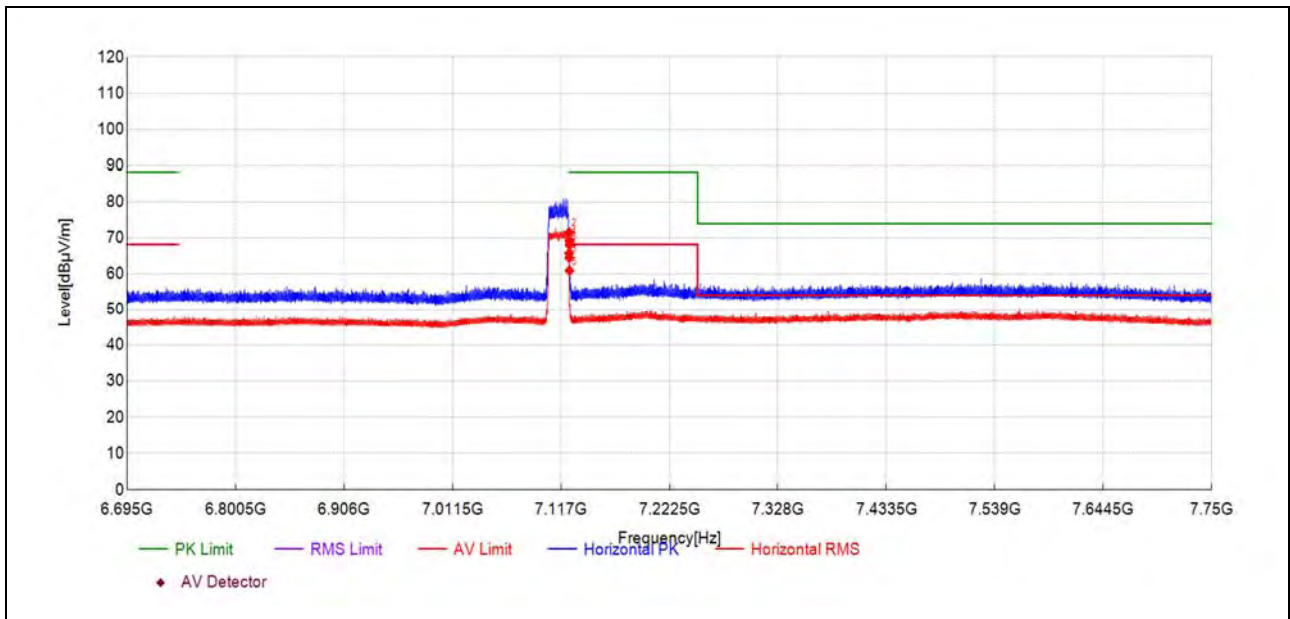
802.11ax (HEW20) Mode

Plot for Channel 1



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
5866.38	26.5	42.54	16.030	68.23	25.69	196	AV	Horizontal	PASS
5897.72	39.3	55.41	16.140	88.23	32.82	200	PK	Horizontal	PASS
5902.86	39.3	55.50	16.180	88.23	32.73	181	PK	Horizontal	PASS
5908.94	28.2	44.41	16.220	68.23	23.82	205	AV	Horizontal	PASS
5922.97	40.0	56.34	16.340	88.23	31.89	190	PK	Horizontal	PASS
5923.91	29.3	45.65	16.340	68.23	22.58	200	AV	Horizontal	PASS

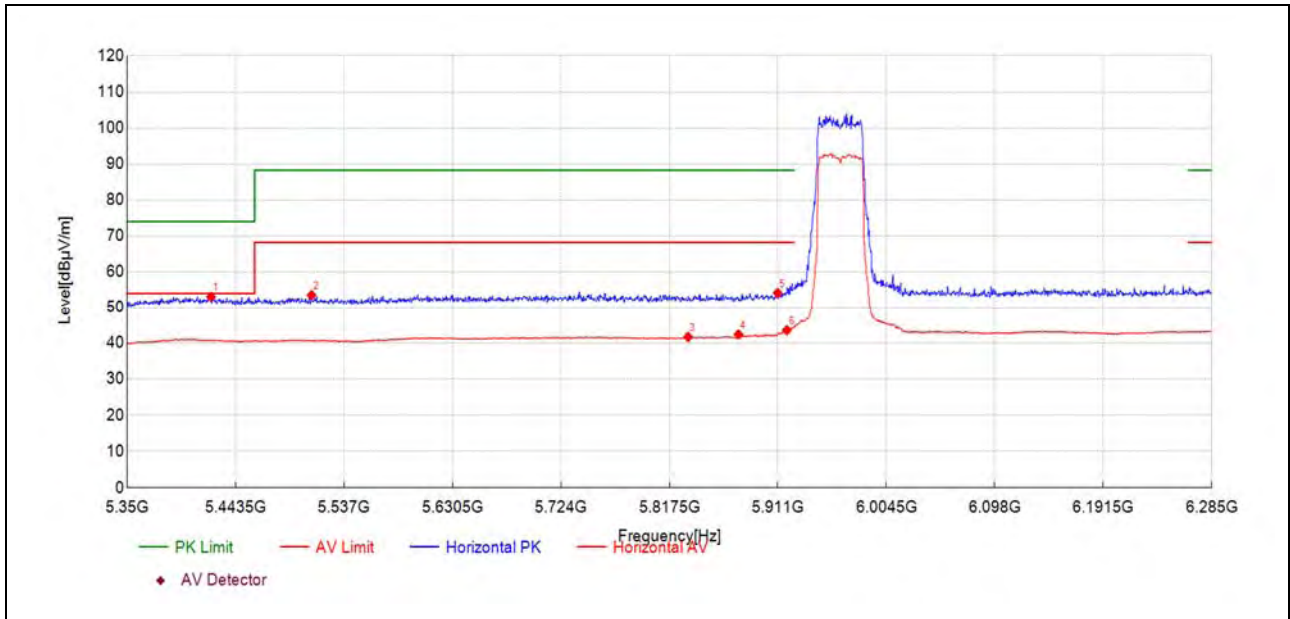
Plot for Channel 233



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7125.00	43.6	65.76	22.210	68.23	2.47	5	RMS	Horizontal	PASS
7125.08	49.3	71.55	22.210	88.23	16.68	5	PK	Horizontal	PASS
7125.11	42.3	64.51	22.210	68.23	3.72	5	RMS	Horizontal	PASS
7125.29	47.0	69.18	22.210	88.23	19.05	357	PK	Horizontal	PASS
7125.32	38.7	60.94	22.210	68.23	7.29	5	RMS	Horizontal	PASS
7125.40	45.8	68.02	22.210	88.23	20.21	0	PK	Horizontal	PASS

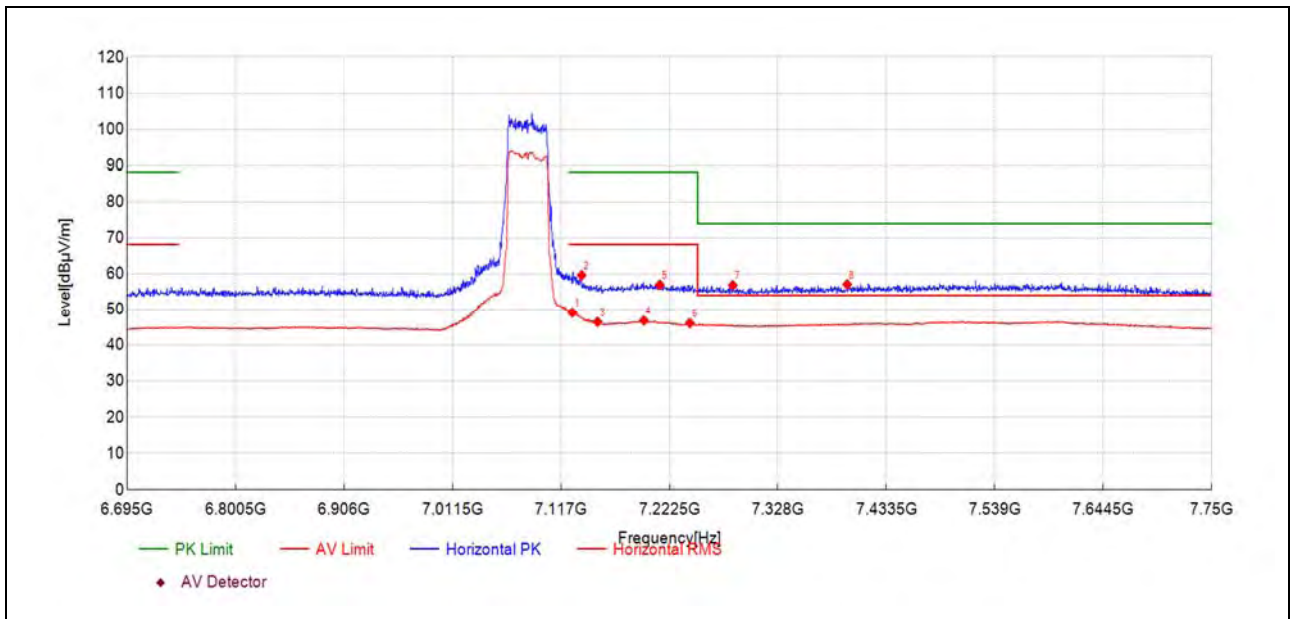
**802.11ax (HEW40) Mode**

Plot for Channel 3



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
5422.50	37.7	53.10	15.410	74.00	20.90	66	PK	Horizontal	PASS
5509.03	38.3	53.54	15.200	88.23	34.69	227	PK	Horizontal	PASS
5833.64	25.7	41.71	15.980	68.23	26.52	222	AV	Horizontal	PASS
5877.14	26.3	42.39	16.070	68.23	25.84	170	AV	Horizontal	PASS
5910.81	37.9	54.16	16.230	88.23	34.07	255	PK	Horizontal	PASS
5918.76	27.3	43.57	16.300	68.23	24.66	184	AV	Horizontal	PASS

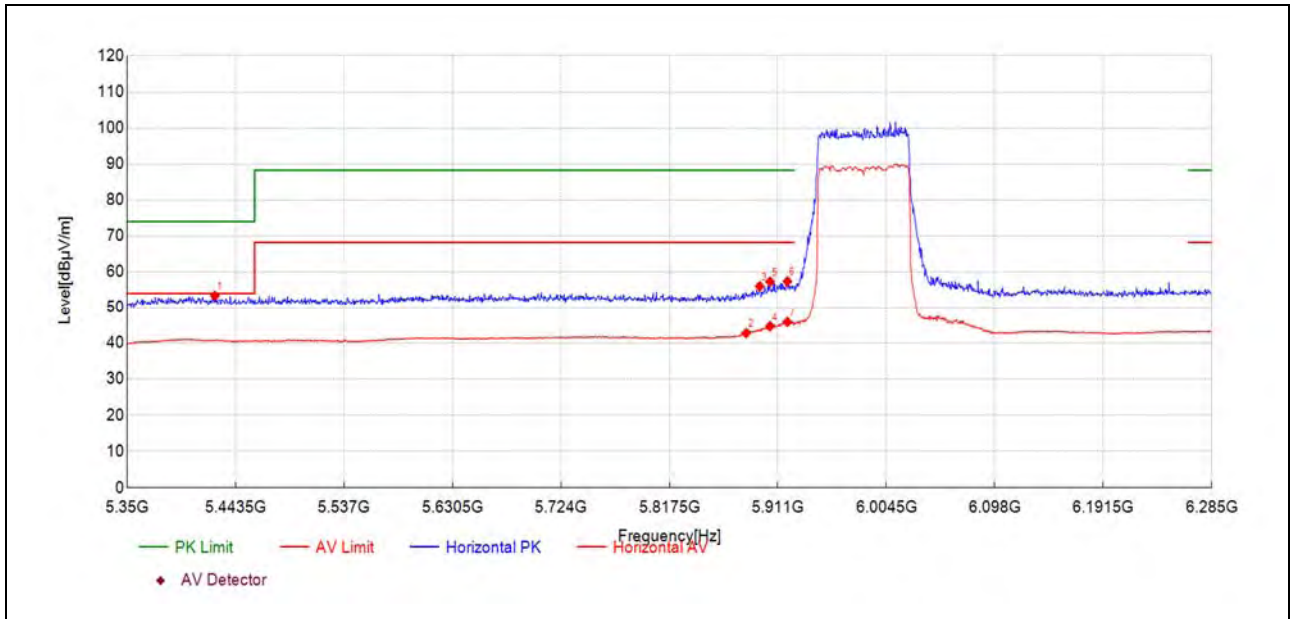
Plot for Channel 227



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7128.05	26.9	49.15	22.250	68.23	19.08	186	RMS	Horizontal	PASS
7137.19	37.3	59.65	22.380	88.23	28.58	191	PK	Horizontal	PASS
7152.67	23.9	46.47	22.580	68.23	21.76	220	RMS	Horizontal	PASS
7197.70	23.7	46.89	23.180	68.23	21.34	220	RMS	Horizontal	PASS
7213.18	34.0	57.01	23.000	88.23	31.22	260	PK	Horizontal	PASS
7242.38	23.6	46.14	22.530	68.23	22.09	52	RMS	Horizontal	PASS
7284.24	34.7	56.86	22.210	74.00	17.14	280	PK	Horizontal	PASS
7395.40	34.3	57.09	22.770	74.00	16.91	265	PK	Horizontal	PASS

**802.11ax (HEW80) Mode**

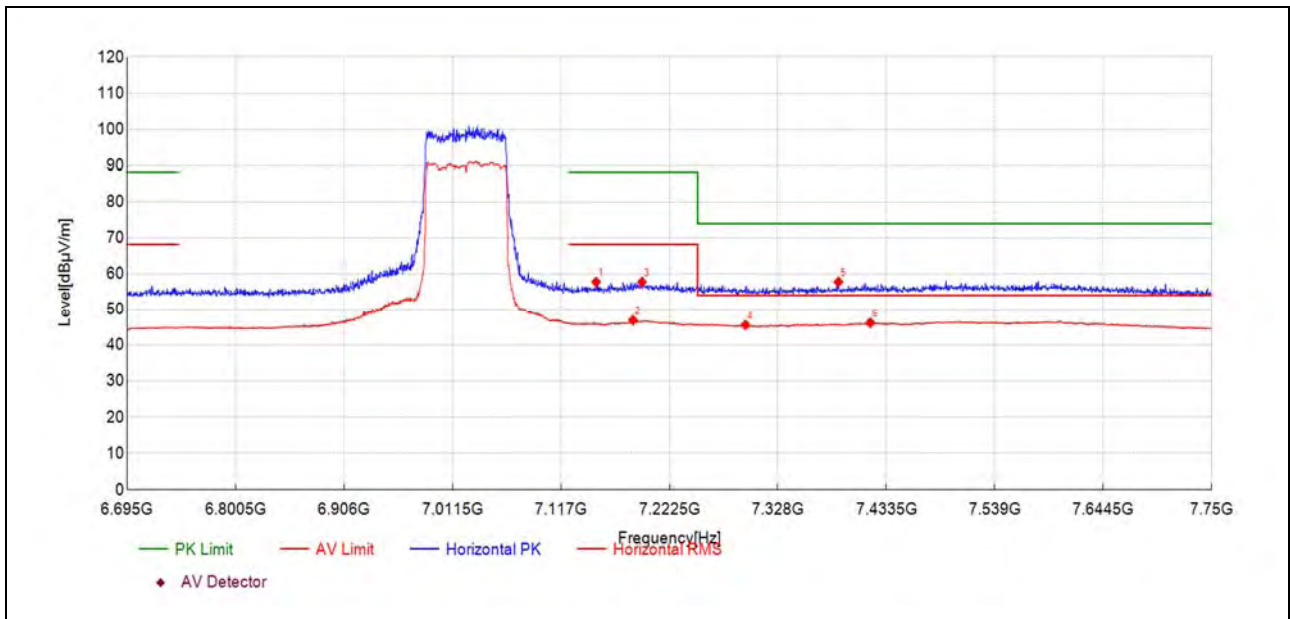
Plot for Channel 7



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
5425.77	38.0	53.40	15.370	74.00	20.60	182	PK	Horizontal	PASS
5883.68	26.7	42.77	16.090	68.23	25.46	187	AV	Horizontal	PASS
5895.38	39.9	56.04	16.130	88.23	32.19	201	PK	Horizontal	PASS
5904.26	28.5	44.67	16.190	68.23	23.56	187	AV	Horizontal	PASS
5904.26	41.1	57.28	16.190	88.23	30.95	210	PK	Horizontal	PASS
5919.23	41.1	57.41	16.310	88.23	30.82	206	PK	Horizontal	PASS
5919.23	29.6	45.88	16.310	68.23	22.35	206	AV	Horizontal	PASS



Plot for Channel 215



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7151.26	35.2	57.77	22.560	88.23	30.46	151	PK	Horizontal	PASS
7187.15	23.9	46.98	23.040	68.23	21.25	195	RMS	Horizontal	PASS
7195.94	34.6	57.76	23.160	88.23	30.47	181	PK	Horizontal	PASS
7296.55	23.5	45.61	22.140	54.00	8.39	146	RMS	Horizontal	PASS
7386.96	35.1	57.81	22.720	74.00	16.19	260	PK	Horizontal	PASS
7417.92	23.5	46.23	22.780	54.00	7.77	310	RMS	Horizontal	PASS



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 a 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 (X axis) test condition was recorded in this test report.

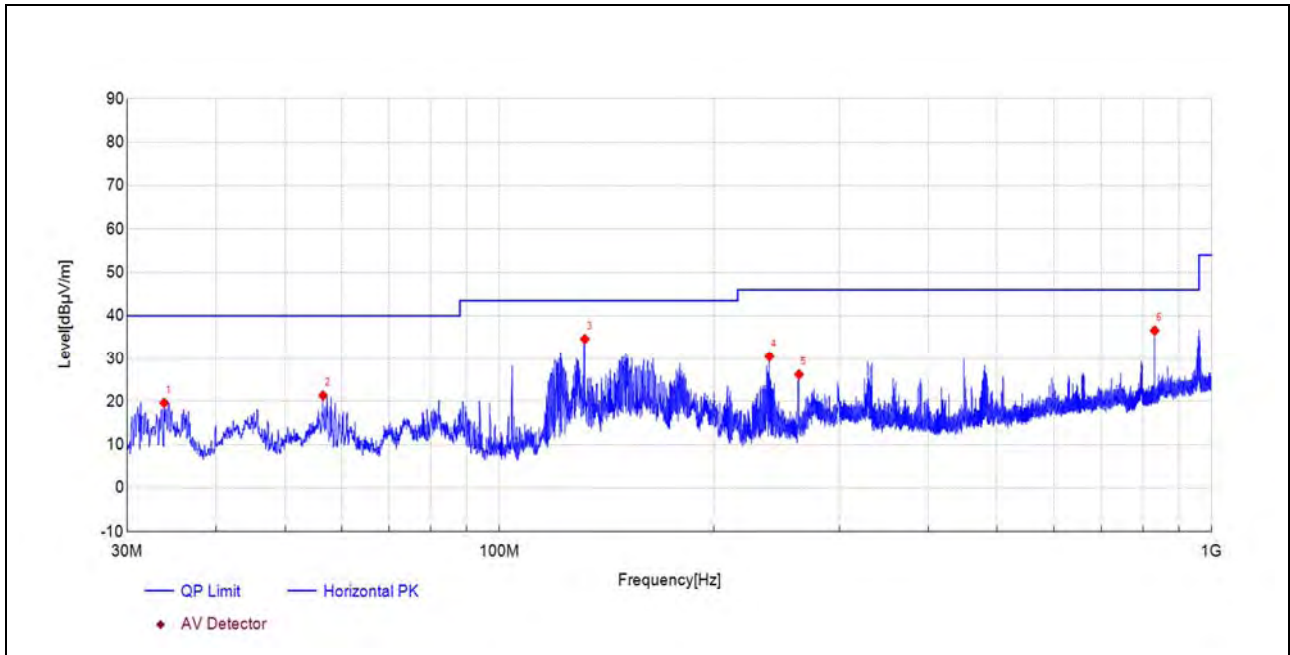
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note4: All test modes, bandwidth and channel were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

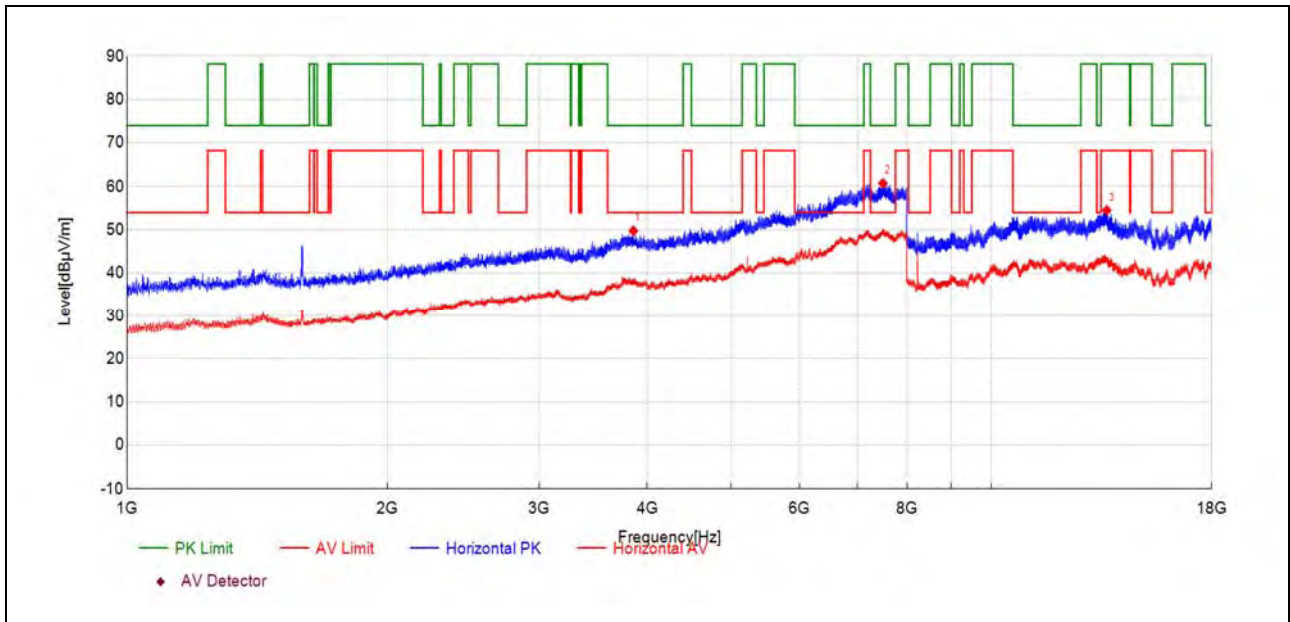
**802.11ax (HEW20) Mode**

Plot for Channel 45



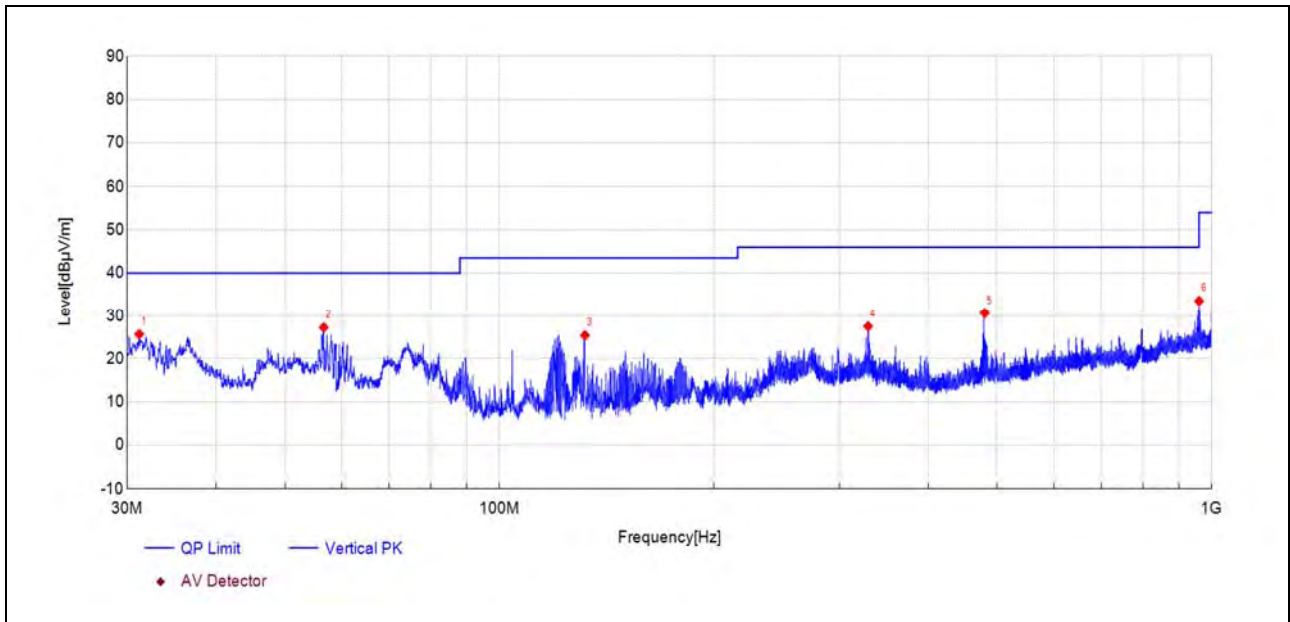
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
33.83	49.6	19.64	-29.940	40.00	20.36	346	PK	Horizontal	PASS
56.53	49.4	21.36	-28.000	40.00	18.64	160	PK	Horizontal	PASS
131.81	66.8	34.60	-32.170	43.50	8.90	120	PK	Horizontal	PASS
239.38	58.4	30.47	-27.880	46.00	15.53	340	PK	Horizontal	PASS
263.39	53.9	26.26	-27.620	46.00	19.74	28	PK	Horizontal	PASS
831.65	50.9	36.58	-14.290	46.00	9.42	311	PK	Horizontal	PASS



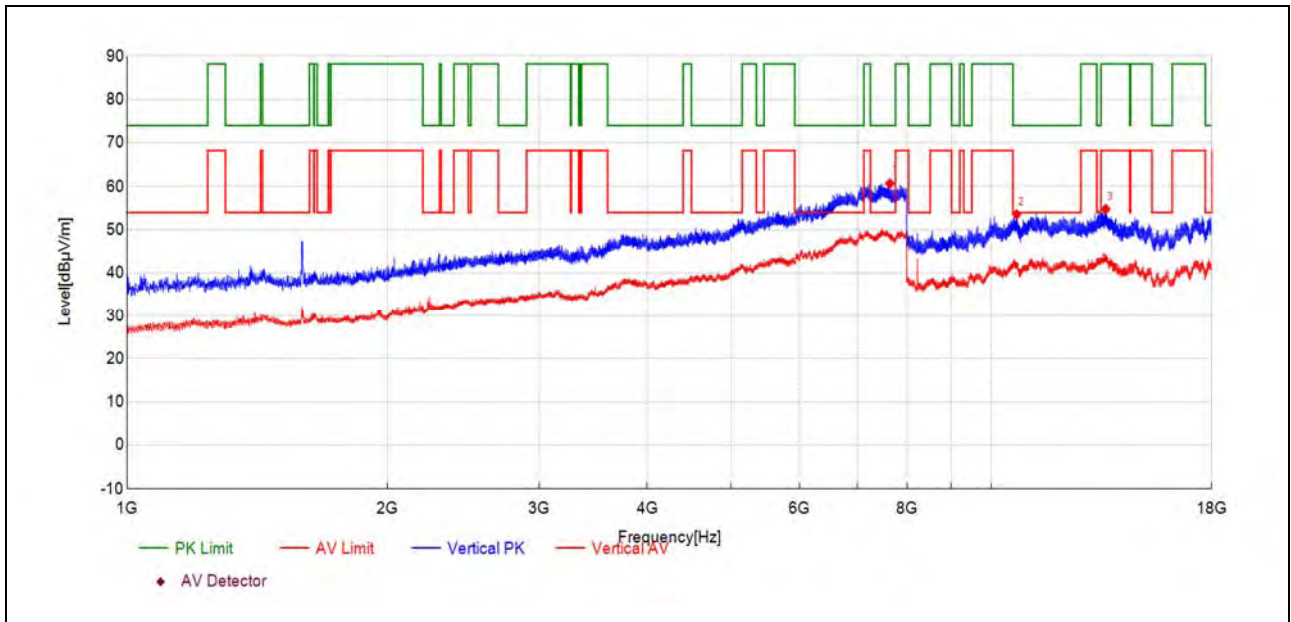
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
3854.32	38.2	49.78	11.610	74.00	24.22	355	PK	Horizontal	PASS
7493.17	34.4	60.74	26.370	74.00	13.26	97	PK	Horizontal	PASS
13609.31	37.5	54.53	17.030	88.23	33.70	216	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

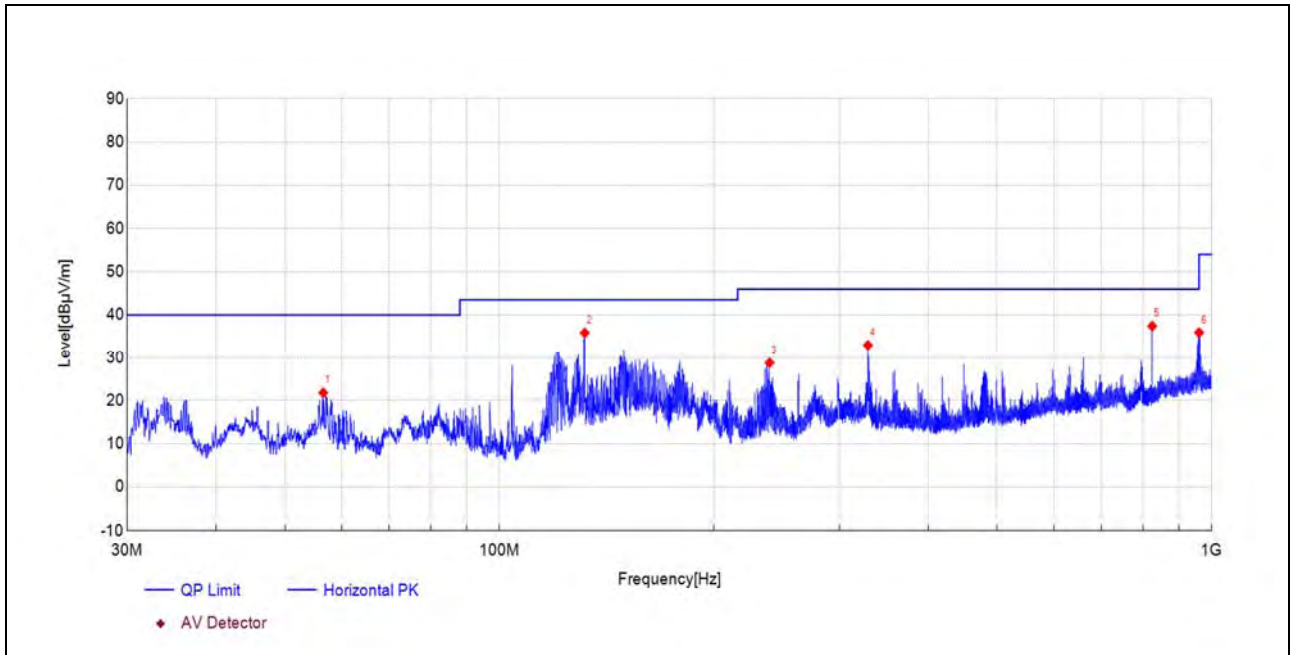
Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
31.21	56.3	25.64	-30.660	40.00	14.36	25	PK	Vertical	PASS
56.68	55.2	27.22	-27.980	40.00	12.78	336	PK	Vertical	PASS
131.81	57.6	25.40	-32.170	43.50	18.10	76	PK	Vertical	PASS
329.26	51.8	27.49	-24.280	46.00	18.51	138	PK	Vertical	PASS
480.01	51.8	30.62	-21.190	46.00	15.38	107	PK	Vertical	PASS
959.99	44.8	33.50	-11.330	46.00	12.50	254	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

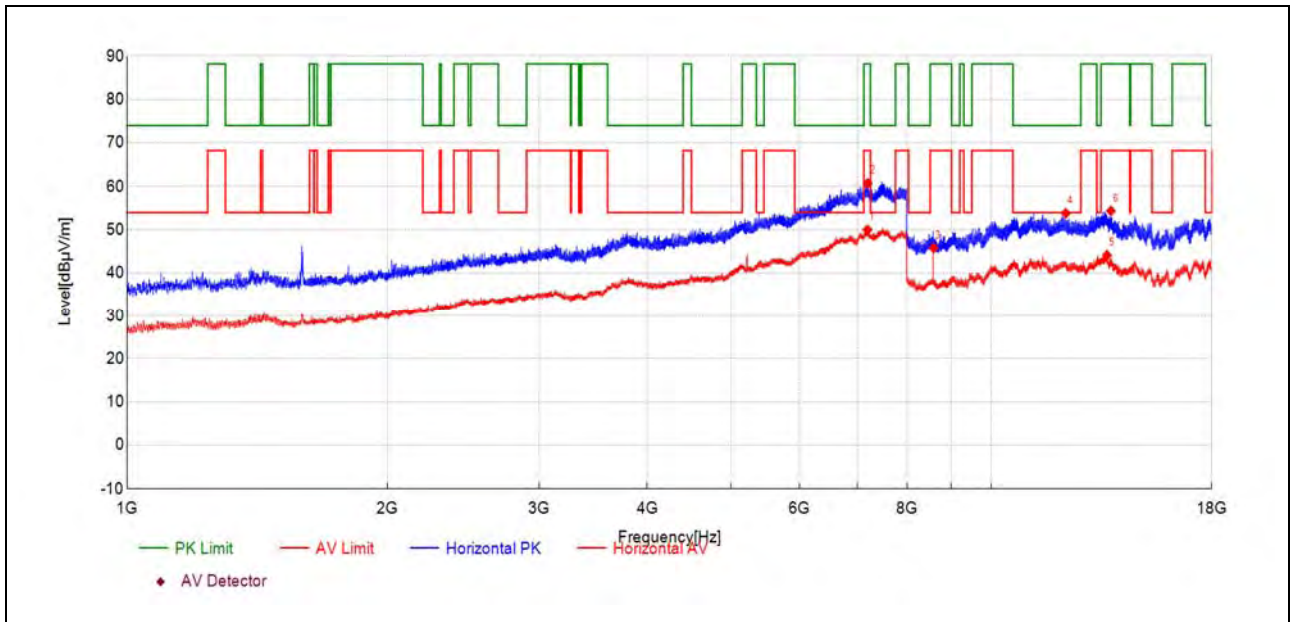
Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7634.11	34.7	60.73	26.080	74.00	13.27	138	PK	Vertical	PASS
10702.99	41.1	53.56	12.480	74.00	20.44	355	PK	Vertical	PASS
13569.31	37.7	54.79	17.100	88.23	33.44	306	PK	Vertical	PASS

Plot for Channel 105



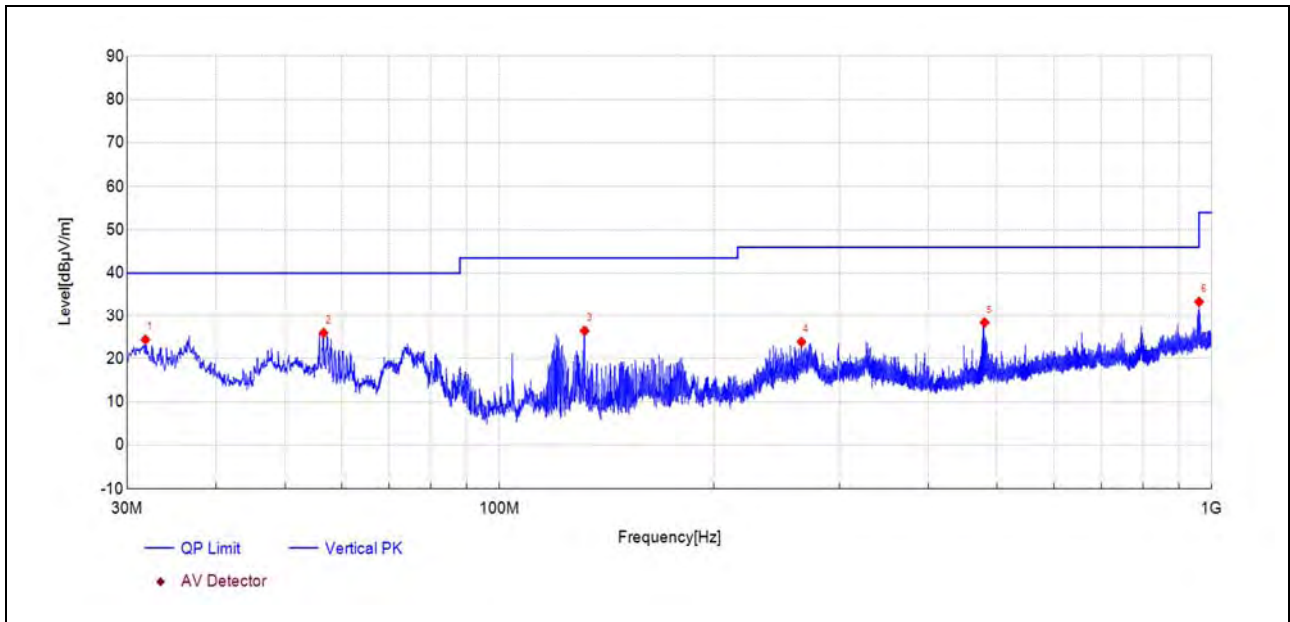
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
56.58	49.8	21.77	-27.990	40.00	18.23	145	PK	Horizontal	PASS
131.76	68.0	35.84	-32.150	43.50	7.66	129	PK	Horizontal	PASS
239.43	56.6	28.75	-27.880	46.00	17.25	0	PK	Horizontal	PASS
329.16	57.3	32.97	-24.290	46.00	13.03	110	PK	Horizontal	PASS
825.05	51.6	37.40	-14.190	46.00	8.60	85	PK	Horizontal	PASS
959.99	47.3	35.92	-11.330	46.00	10.08	205	PK	Horizontal	PASS



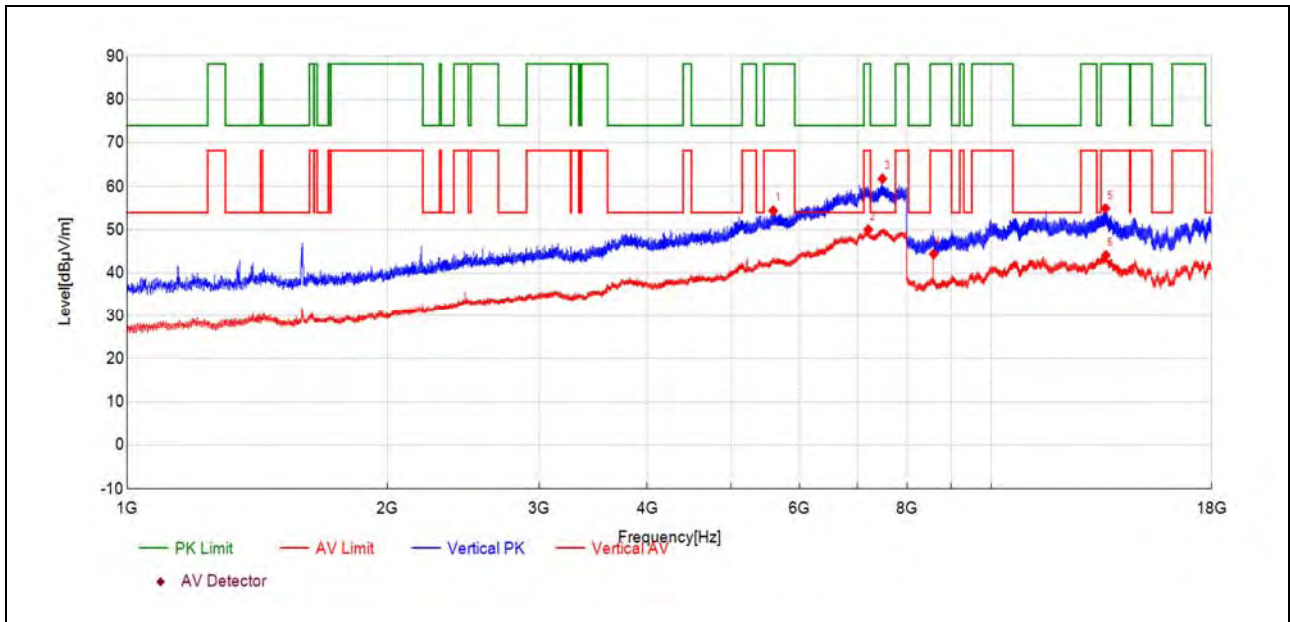
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7193.55	23.9	50.00	26.150	68.23	18.23	87	AV	Horizontal	PASS
7198.68	34.6	60.79	26.170	88.23	27.44	307	PK	Horizontal	PASS
8580.50	39.4	45.83	6.430	68.23	22.40	218	AV	Horizontal	PASS
12198.77	39.0	53.84	14.800	74.00	20.16	228	PK	Horizontal	PASS
13615.03	27.2	44.13	16.970	68.23	24.10	238	AV	Horizontal	PASS
13759.80	37.7	54.39	16.720	88.23	33.84	266	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
31.84	54.9	24.37	-30.520	40.00	15.63	360	PK	Vertical	PASS
56.63	53.9	25.93	-27.990	40.00	14.07	9	PK	Vertical	PASS
131.66	58.5	26.43	-32.100	43.50	17.07	82	PK	Vertical	PASS
265.48	51.2	23.84	-27.390	46.00	22.16	82	PK	Vertical	PASS
480.01	49.5	28.35	-21.190	46.00	17.65	61	PK	Vertical	PASS
959.99	44.7	33.36	-11.330	46.00	12.64	294	PK	Vertical	PASS

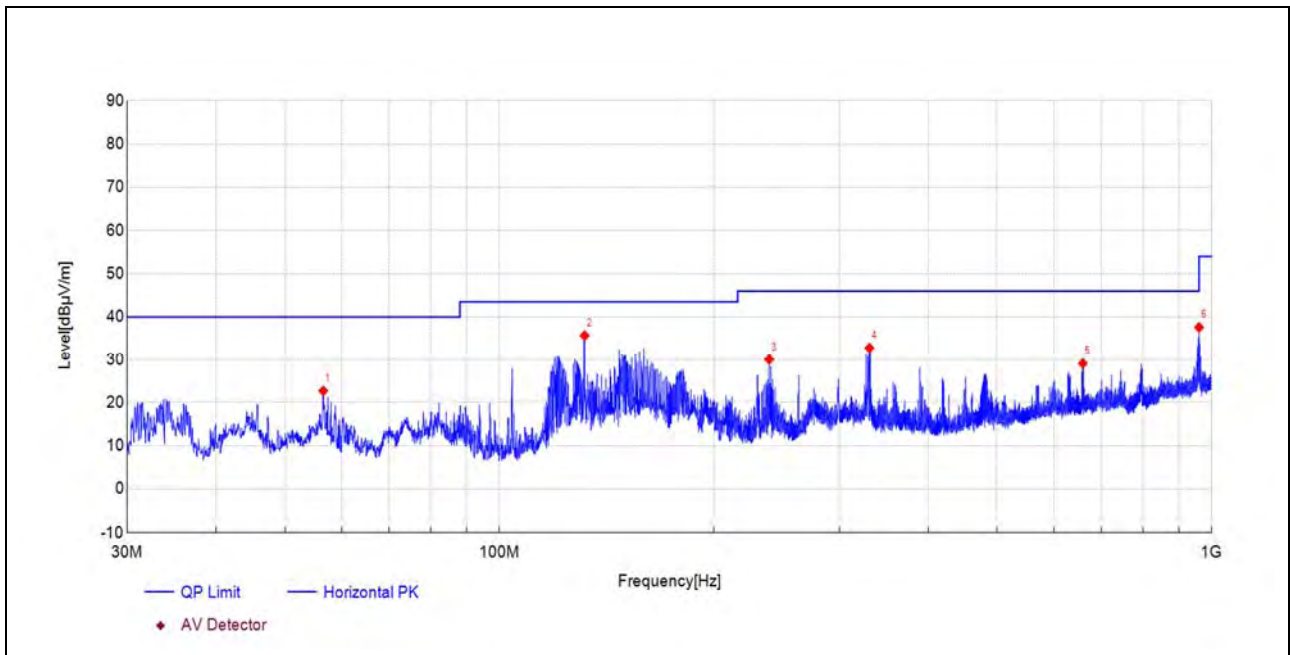


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
5595.11	36.1	54.42	18.340	88.23	33.81	250	PK	Vertical	PASS
7208.48	24.0	50.05	26.050	68.23	18.18	258	AV	Vertical	PASS
7484.77	35.2	61.81	26.580	74.00	12.19	250	PK	Vertical	PASS
8580.50	38.0	44.41	6.430	68.23	23.82	258	AV	Vertical	PASS
13561.22	37.9	54.94	17.090	88.23	33.29	150	PK	Vertical	PASS
13575.98	27.0	44.13	17.100	68.23	24.10	306	AV	Vertical	PASS

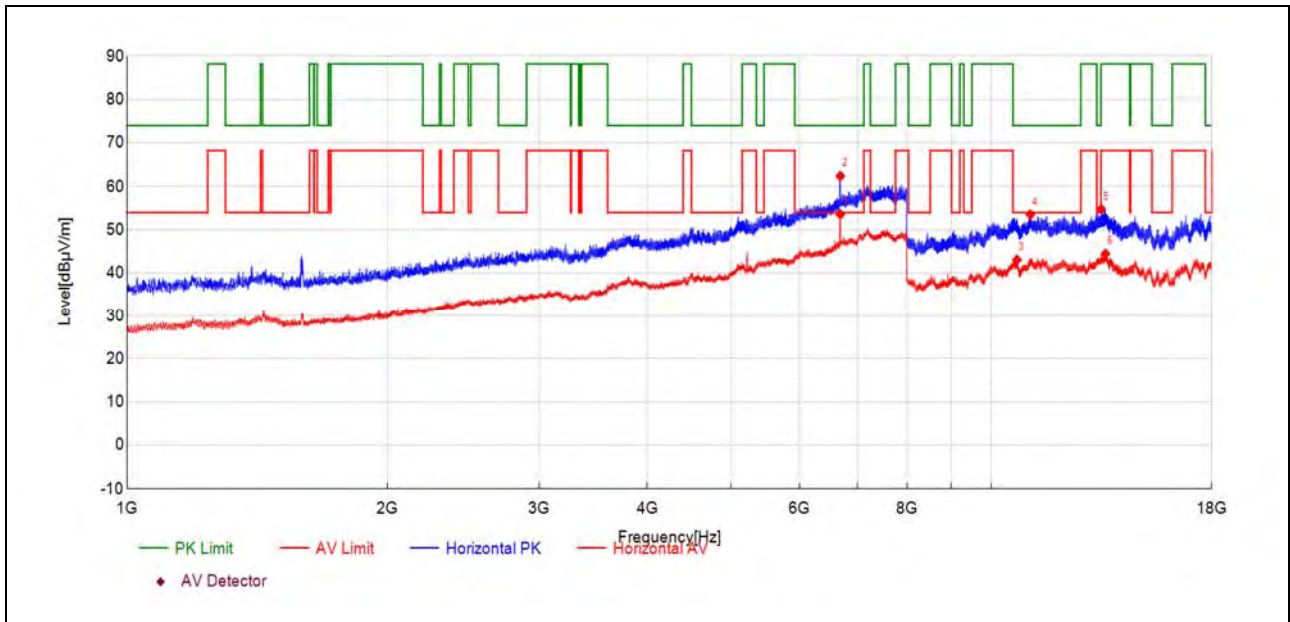


Plot for Channel 149



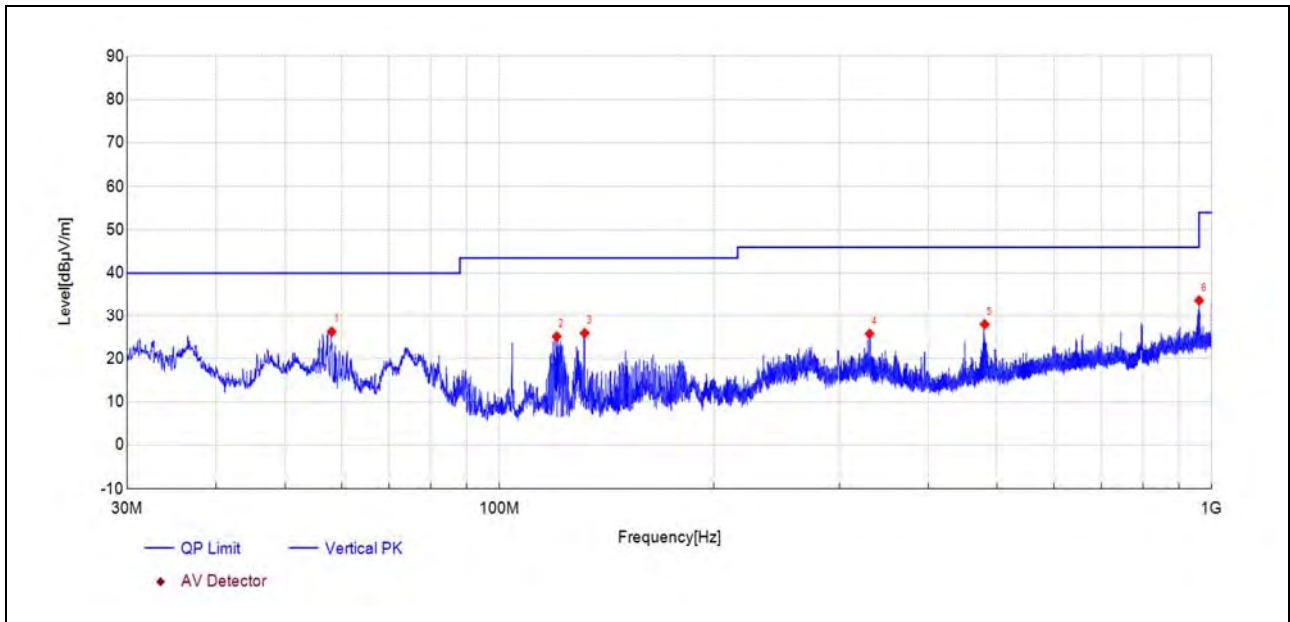
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
56.58	50.7	22.71	-27.990	40.00	17.29	148	PK	Horizontal	PASS
131.71	67.8	35.67	-32.120	43.50	7.83	123	PK	Horizontal	PASS
239.19	57.9	30.00	-27.880	46.00	16.00	351	PK	Horizontal	PASS
330.72	57.1	32.79	-24.280	46.00	13.21	93	PK	Horizontal	PASS
659.22	45.5	29.06	-16.430	46.00	16.94	280	PK	Horizontal	PASS
959.99	48.9	37.59	-11.330	46.00	8.41	204	PK	Horizontal	PASS



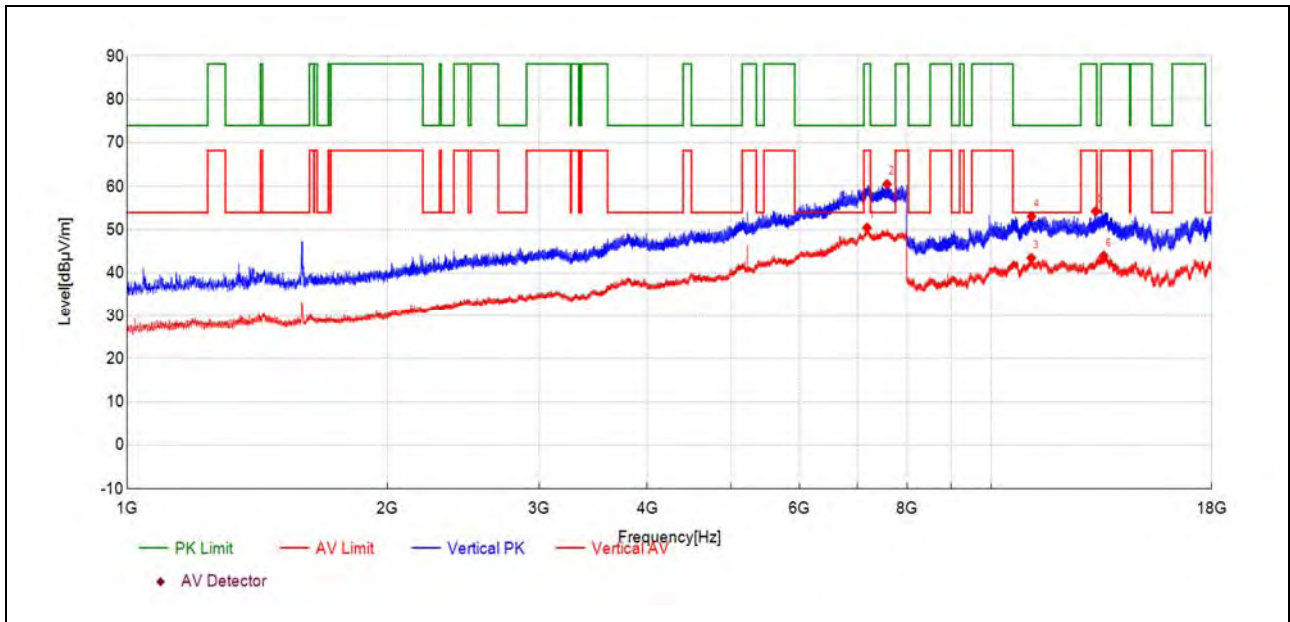
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
6690.45	30.2	53.58	23.410	-	-	185	AV	Horizontal	NA
6691.85	39.0	62.43	23.420	-	-	185	PK	Horizontal	NA
10711.08	30.7	43.06	12.400	54.00	10.94	130	AV	Horizontal	PASS
11100.15	40.0	53.53	13.540	74.00	20.47	196	PK	Horizontal	PASS
13415.97	38.3	54.77	16.500	88.23	33.46	207	PK	Horizontal	PASS
13562.17	27.4	44.46	17.100	68.23	23.77	207	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
58.13	54.3	26.21	-28.120	40.00	13.79	332	PK	Vertical	PASS
120.31	55.6	25.11	-30.530	43.50	18.39	105	PK	Vertical	PASS
131.76	58.0	25.88	-32.150	43.50	17.62	64	PK	Vertical	PASS
330.91	50.0	25.71	-24.300	46.00	20.29	24	PK	Vertical	PASS
480.01	49.1	27.92	-21.190	46.00	18.08	75	PK	Vertical	PASS
959.99	45.0	33.66	-11.330	46.00	12.34	251	PK	Vertical	PASS

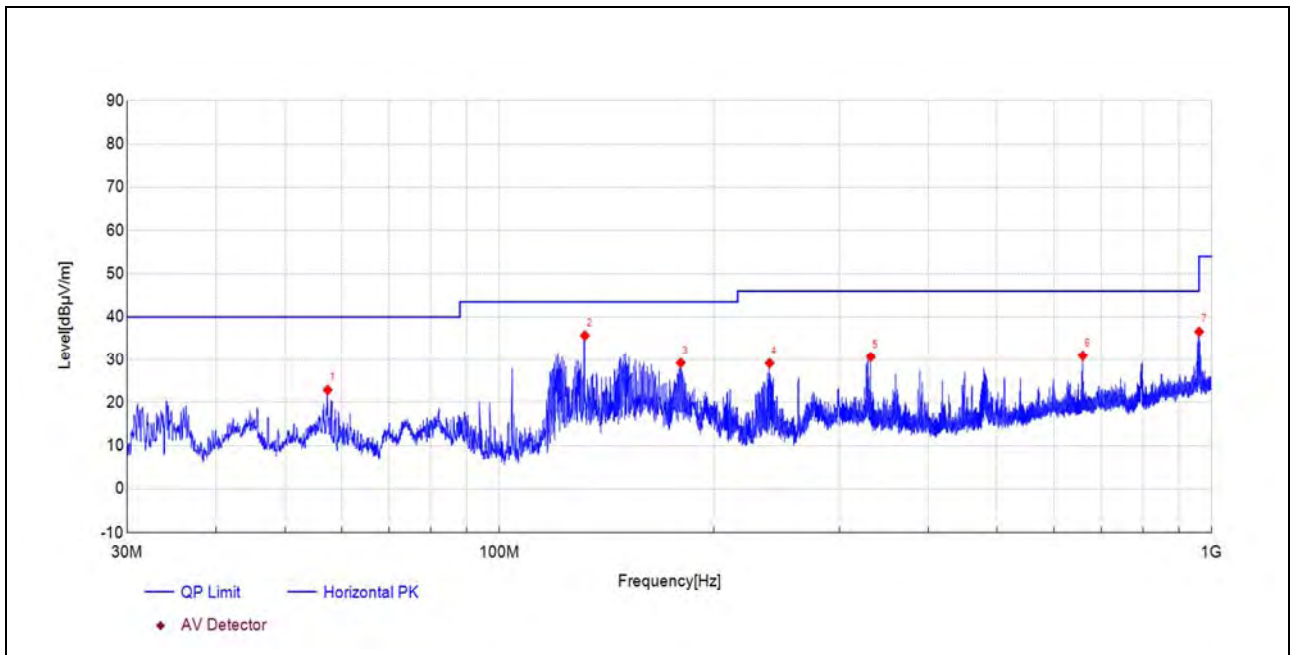


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7184.68	24.2	50.48	26.300	68.23	17.75	355	AV	Vertical	PASS
7578.57	34.4	60.57	26.170	74.00	13.43	169	PK	Vertical	PASS
11130.15	30.0	43.49	13.530	54.00	10.51	354	AV	Vertical	PASS
11140.63	39.6	53.10	13.520	74.00	20.90	82	PK	Vertical	PASS
13212.63	38.7	54.29	15.620	88.23	33.94	92	PK	Vertical	PASS
13498.36	26.9	43.98	17.060	68.23	24.25	54	AV	Vertical	PASS

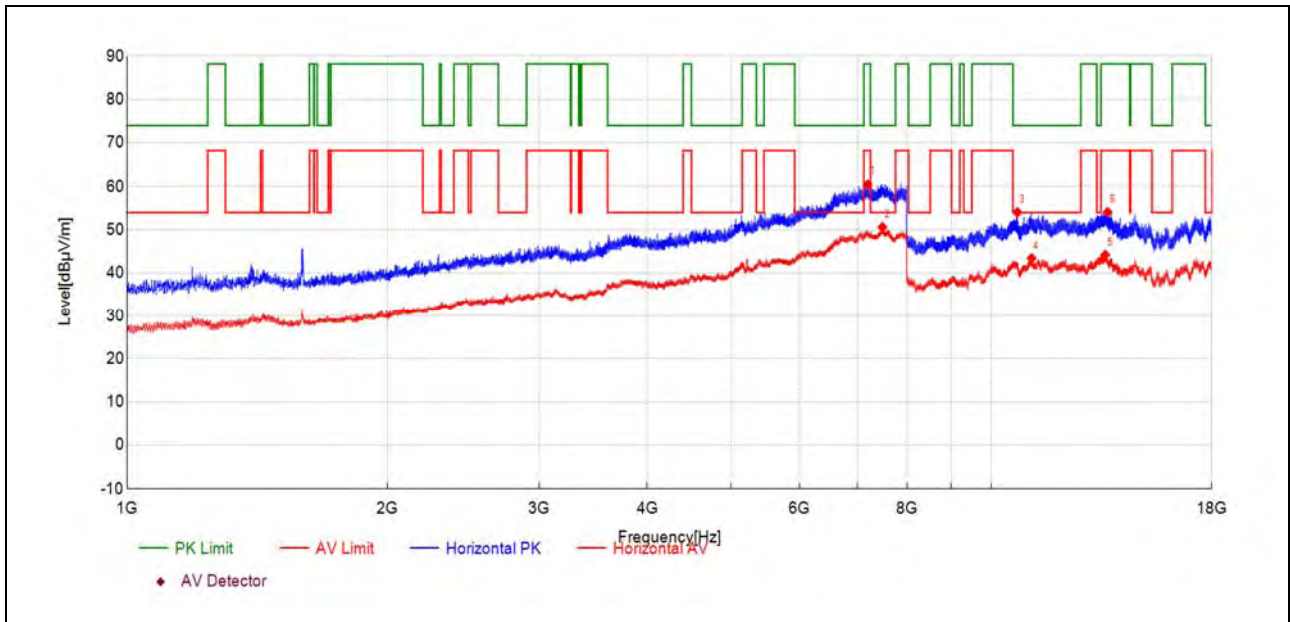


Plot for Channel 209



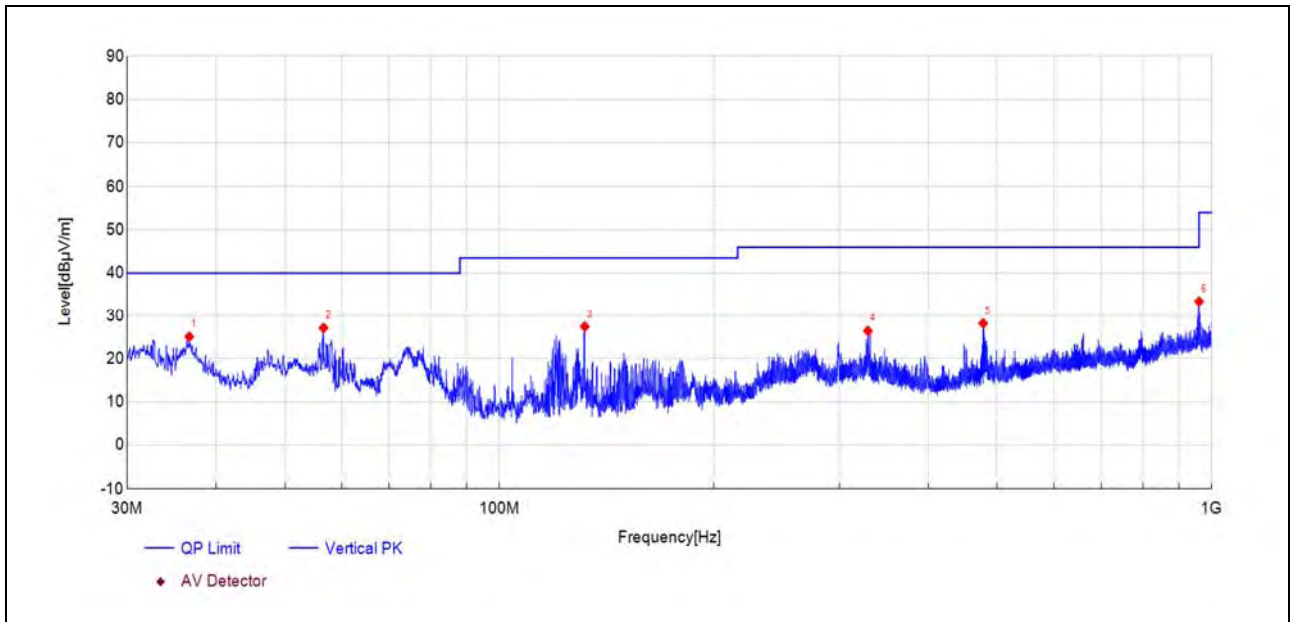
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
57.40	50.9	22.89	-27.990	40.00	17.11	169	PK	Horizontal	PASS
131.81	67.8	35.66	-32.170	43.50	7.84	128	PK	Horizontal	PASS
179.68	59.6	29.21	-30.360	43.50	14.29	88	PK	Horizontal	PASS
239.48	57.0	29.12	-27.880	46.00	16.88	164	PK	Horizontal	PASS
332.22	55.1	30.65	-24.420	46.00	15.35	331	PK	Horizontal	PASS
659.12	47.4	30.92	-16.440	46.00	15.08	113	PK	Horizontal	PASS
959.99	47.9	36.56	-11.330	46.00	9.44	108	PK	Horizontal	PASS



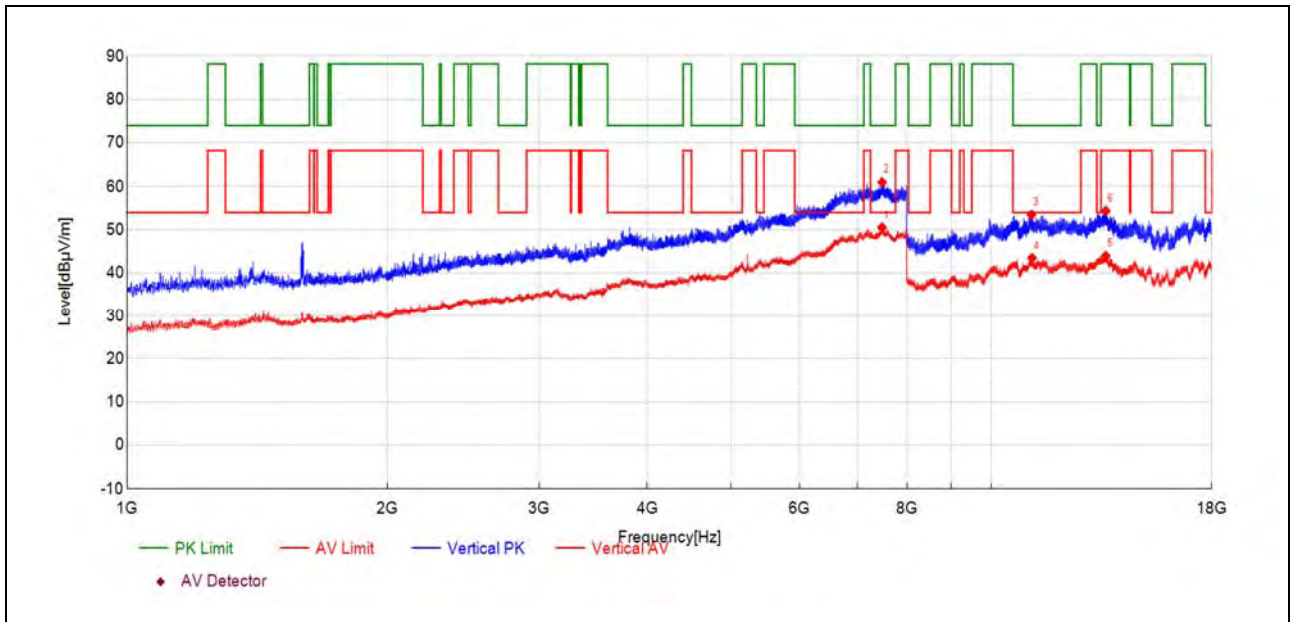
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7199.15	34.4	60.51	26.130	88.23	27.72	323	PK	Horizontal	PASS
7485.23	24.1	50.61	26.530	54.00	3.39	307	AV	Horizontal	PASS
10724.42	41.8	54.05	12.280	74.00	19.95	268	PK	Horizontal	PASS
11139.20	29.9	43.40	13.520	54.00	10.60	189	AV	Horizontal	PASS
13556.46	27.1	44.20	17.100	68.23	24.03	189	AV	Horizontal	PASS
13638.36	37.4	54.10	16.750	88.23	34.13	15	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
36.69	54.4	25.04	-29.370	40.00	14.96	186	PK	Vertical	PASS
56.63	55.1	27.09	-27.990	40.00	12.91	341	PK	Vertical	PASS
131.76	59.5	27.39	-32.150	43.50	16.11	80	PK	Vertical	PASS
329.11	50.7	26.43	-24.290	46.00	19.57	206	PK	Vertical	PASS
477.68	49.3	28.16	-21.100	46.00	17.84	55	PK	Vertical	PASS
959.99	44.7	33.39	-11.330	46.00	12.61	256	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
7477.30	24.0	50.54	26.540	54.00	3.46	226	AV	Vertical	PASS
7477.77	34.5	61.00	26.540	74.00	13.00	32	PK	Vertical	PASS
11133.01	40.0	53.49	13.530	74.00	20.51	348	PK	Vertical	PASS
11153.48	29.9	43.44	13.520	54.00	10.56	278	AV	Vertical	PASS
13569.79	26.9	43.95	17.100	68.23	24.28	210	AV	Vertical	PASS
13574.07	37.3	54.38	17.100	88.23	33.85	34	PK	Vertical	PASS



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————