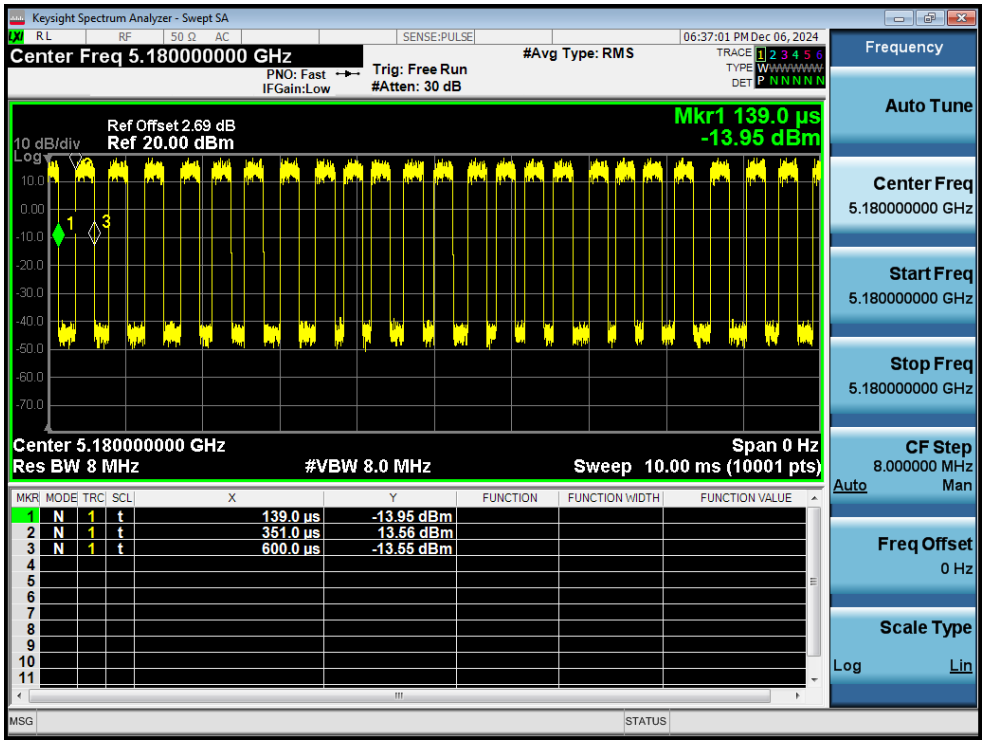
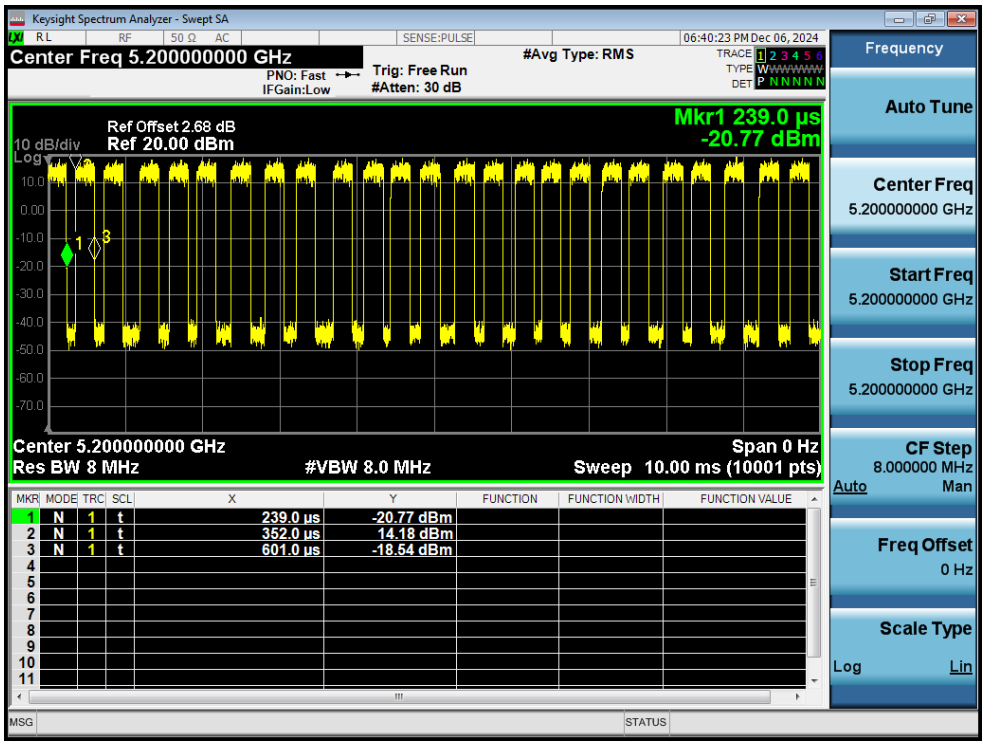
Test Data Appendix of Test Report

1. Duty Cycle

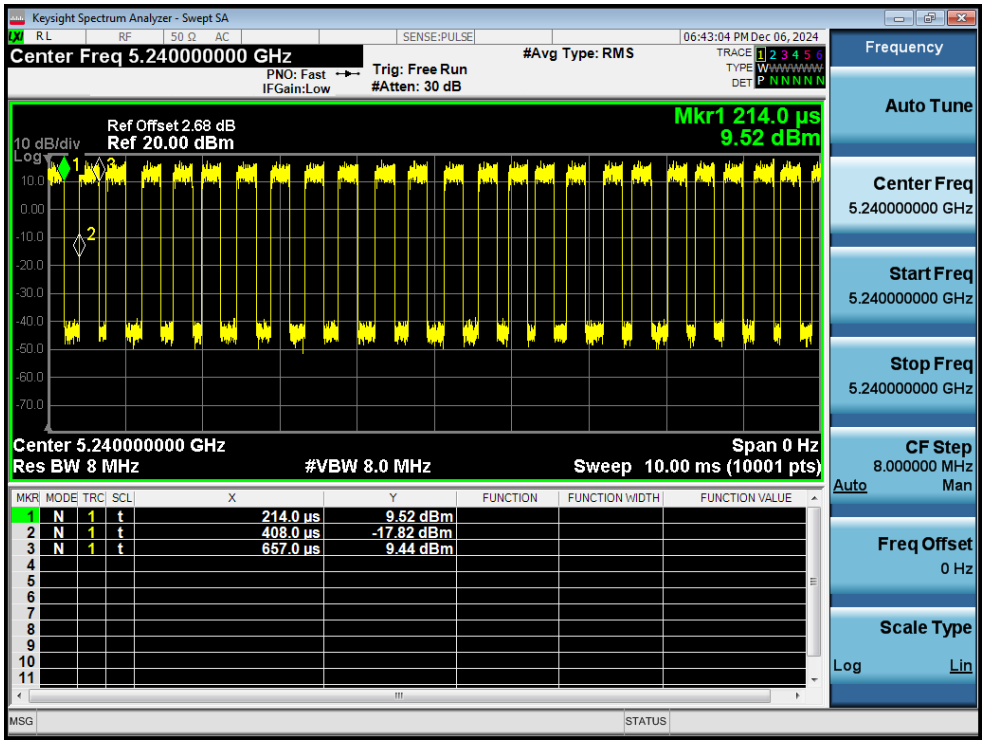
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	54.01	2.68	4.02
NVNT	a	5200	Ant1	68.78	1.63	4.02
NVNT	a	5240	Ant1	56.21	2.5	4.02
NVNT	n20	5180	Ant1	49.67	3.04	4.39
NVNT	n20	5200	Ant1	36.46	4.38	4.37
NVNT	n20	5240	Ant1	51.7	2.87	4.39
NVNT	n40	5190	Ant1	43.58	3.61	7.75
NVNT	n40	5230	Ant1	55.36	2.57	7.75
NVNT	ac20	5180	Ant1	81.65	0.88	0.48
NVNT	ac20	5200	Ant1	83.17	0.8	0.48
NVNT	ac20	5240	Ant1	83.47	0.78	0.48
NVNT	ac40	5190	Ant1	83.17	0.8	0.48
NVNT	ac40	5230	Ant1	82.87	0.82	0.48



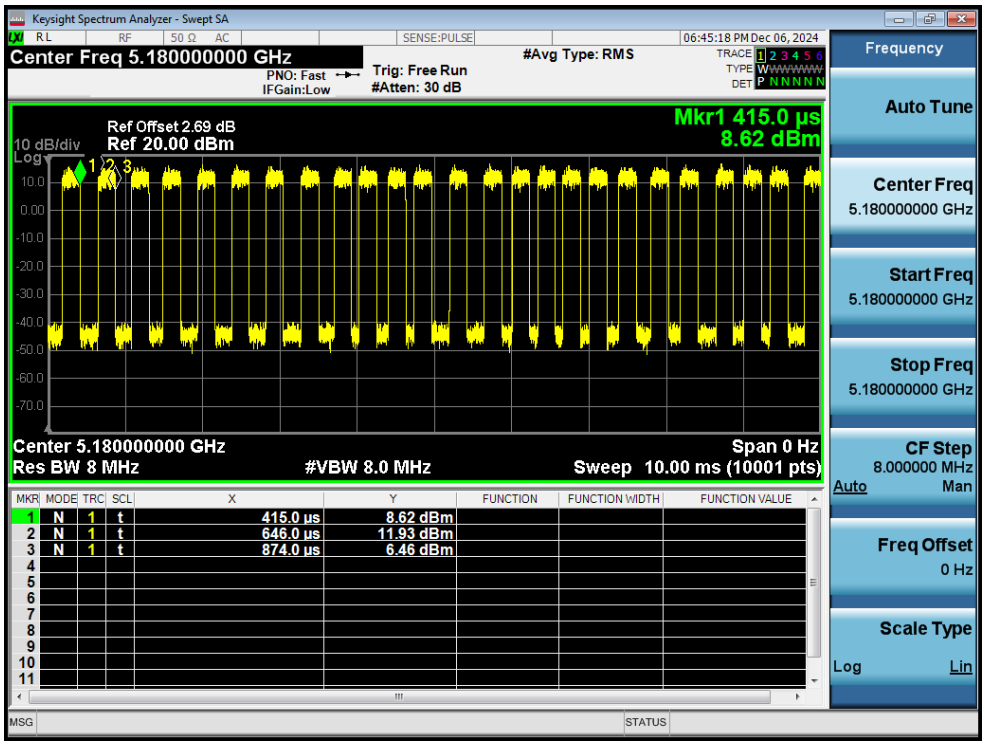
Duty Cycle NVNT a 5180MHz Ant1



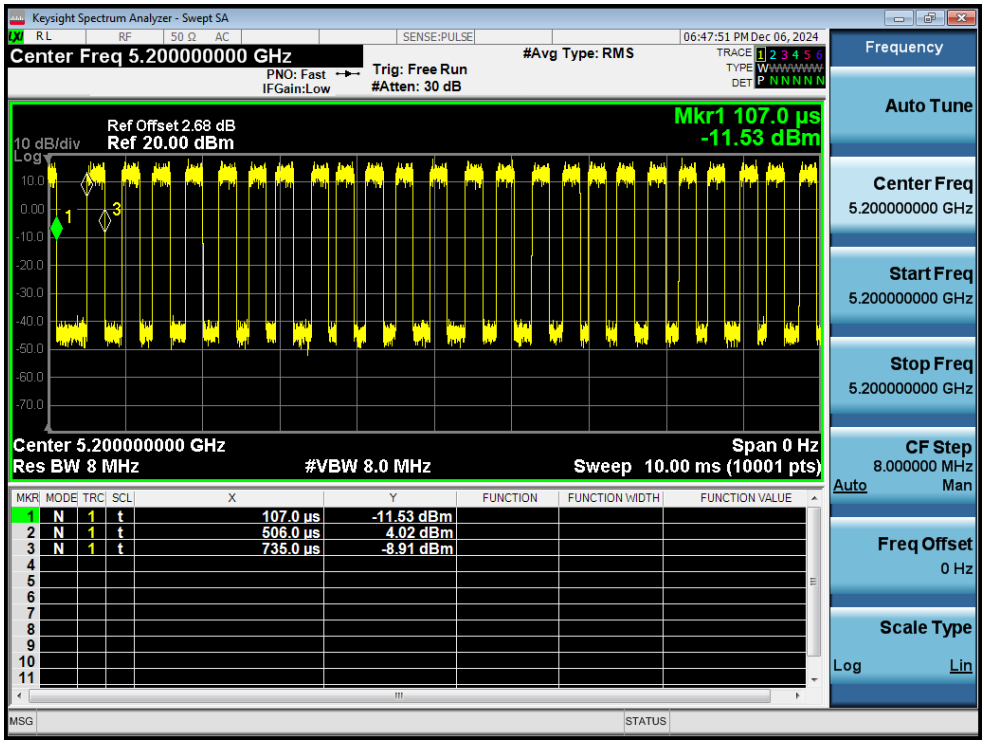
Duty Cycle NVNT a 5200MHz Ant1



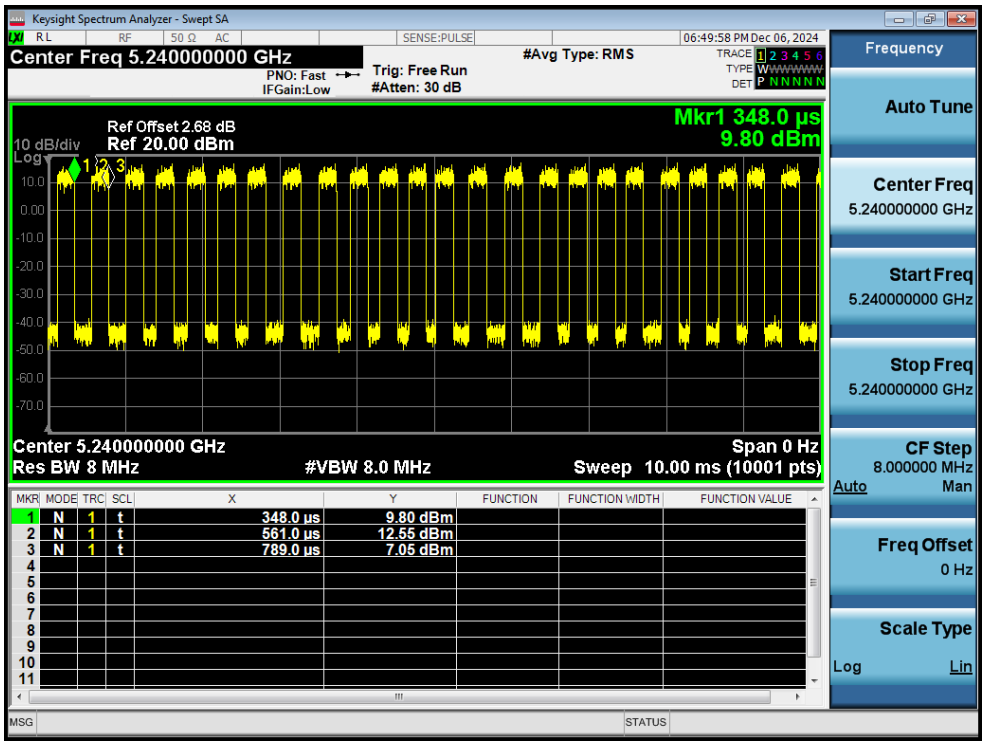
Duty Cycle NVNT a 5240MHz Ant1



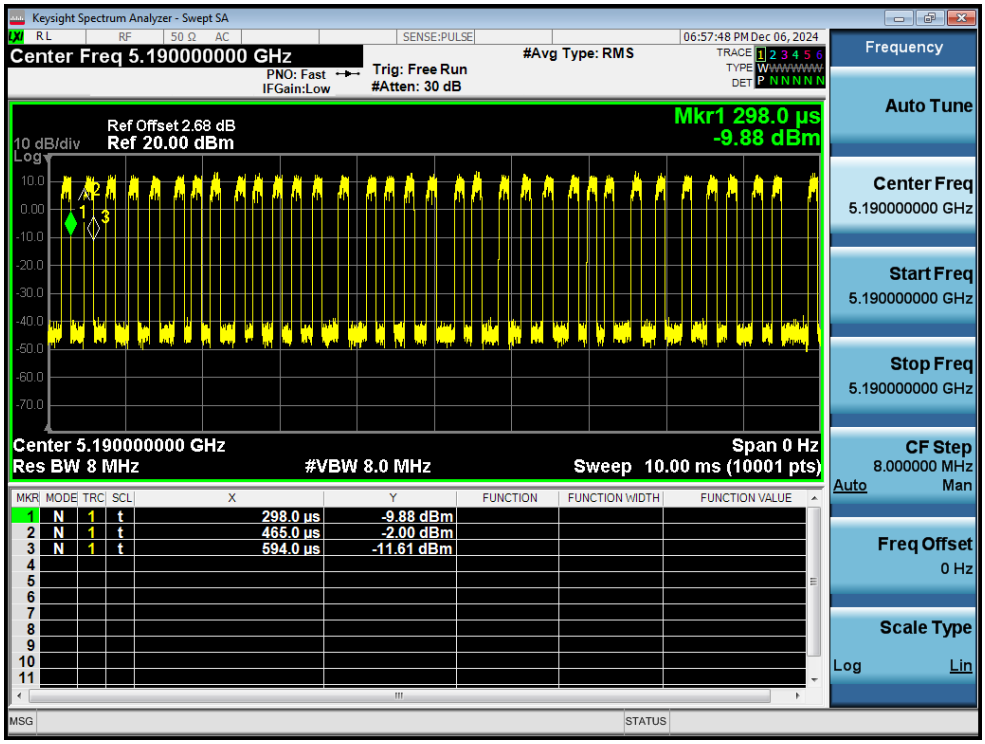
Duty Cycle NVNT n20 5180MHz Ant1



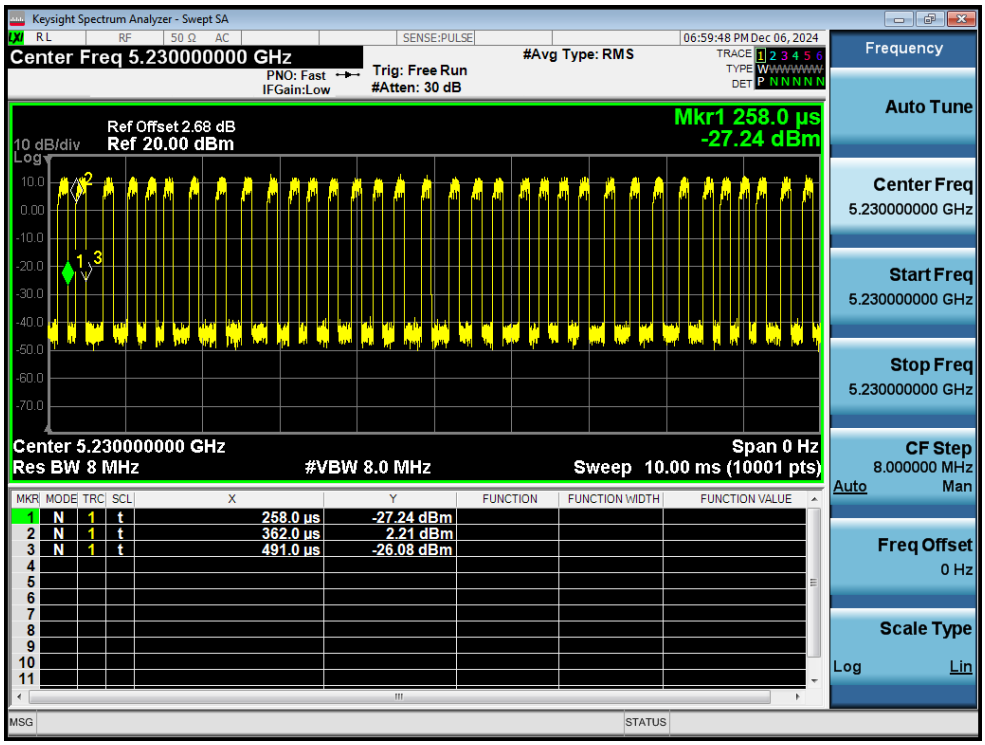
Duty Cycle NVNT n20 5200MHz Ant1



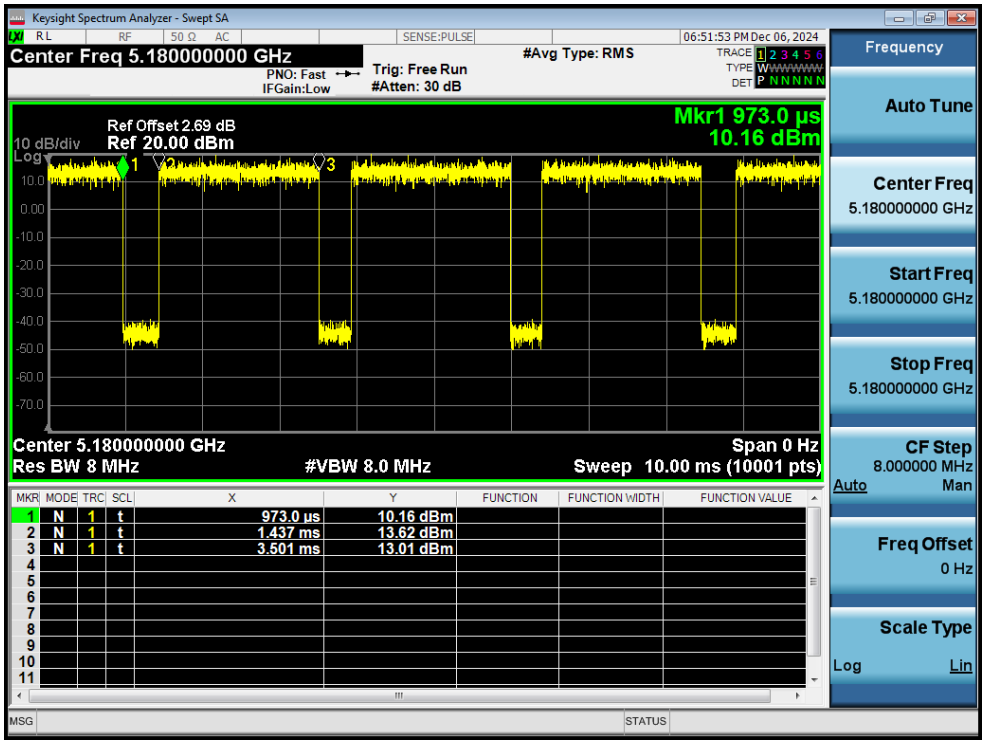
Duty Cycle NVNT n20 5240MHz Ant1



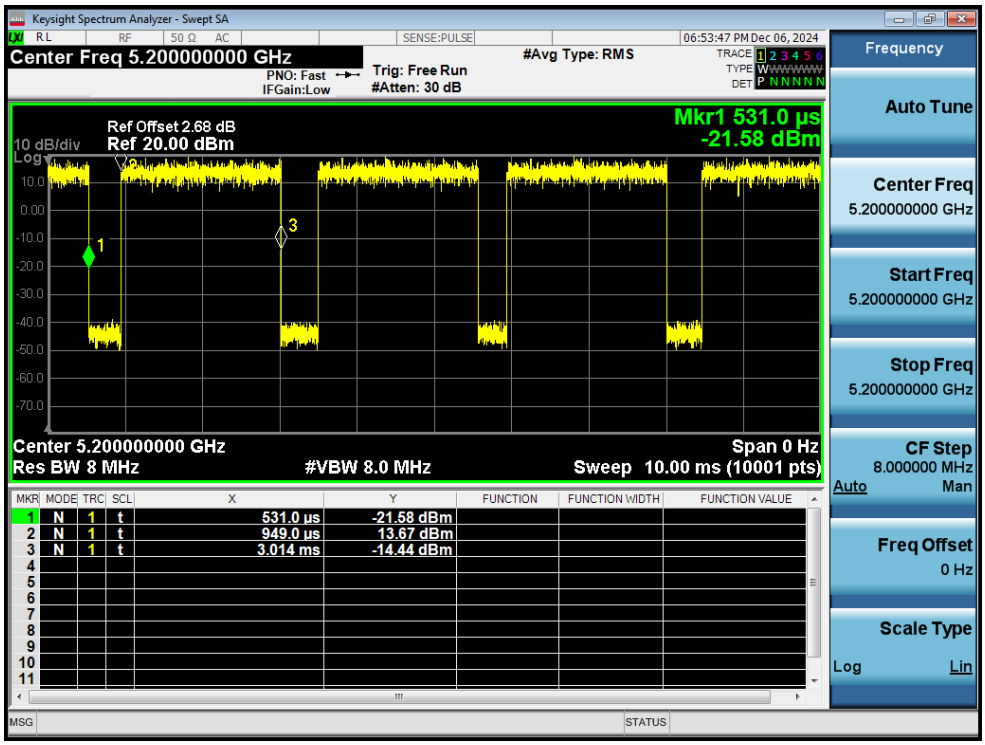
Duty Cycle NVNT n40 5190MHz Ant1



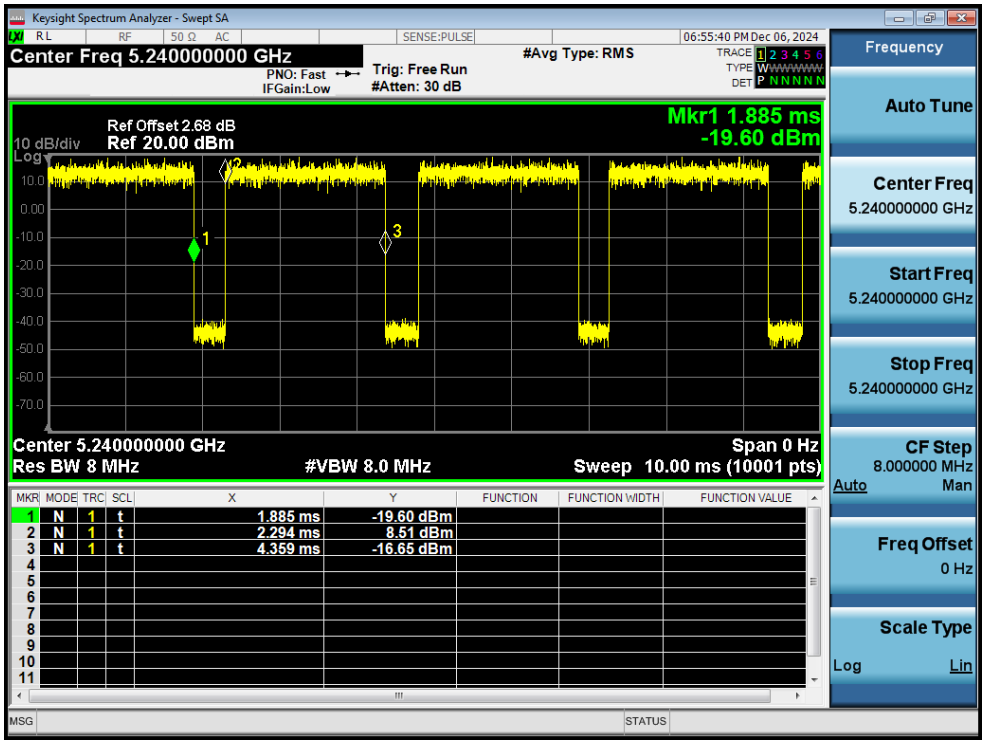
Duty Cycle NVNT n40 5230MHz Ant1



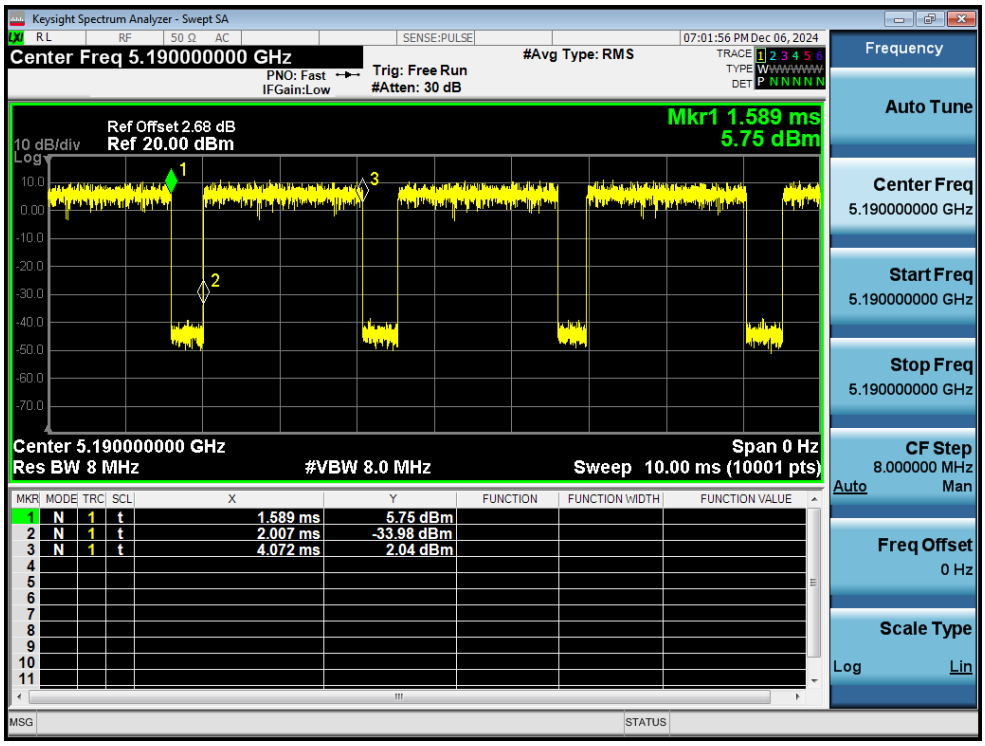
Duty Cycle NVNT ac20 5180MHz Ant1



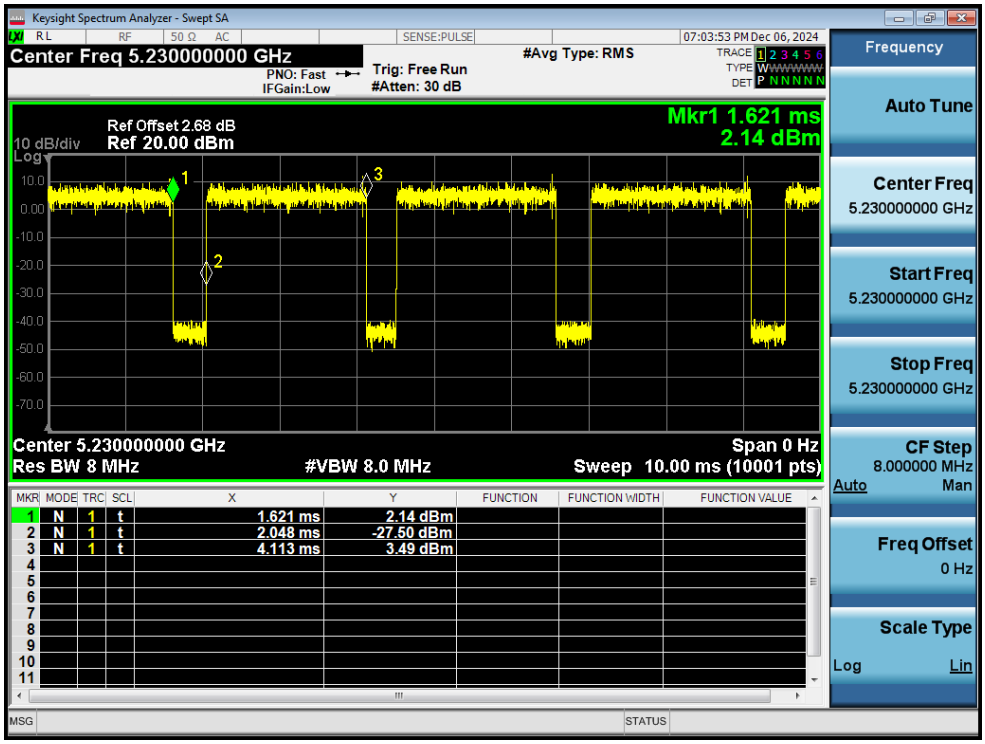
Duty Cycle NVNT ac20 5200MHz Ant1



Duty Cycle NVNT ac20 5240MHz Ant1



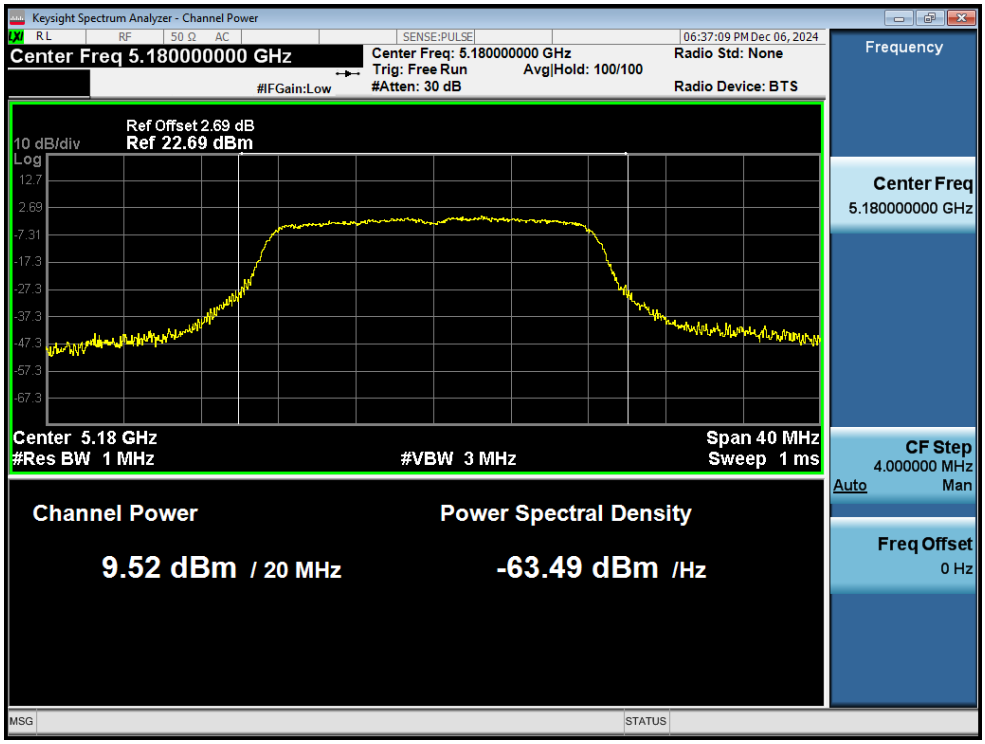
Duty Cycle NVNT ac40 5190MHz Ant1



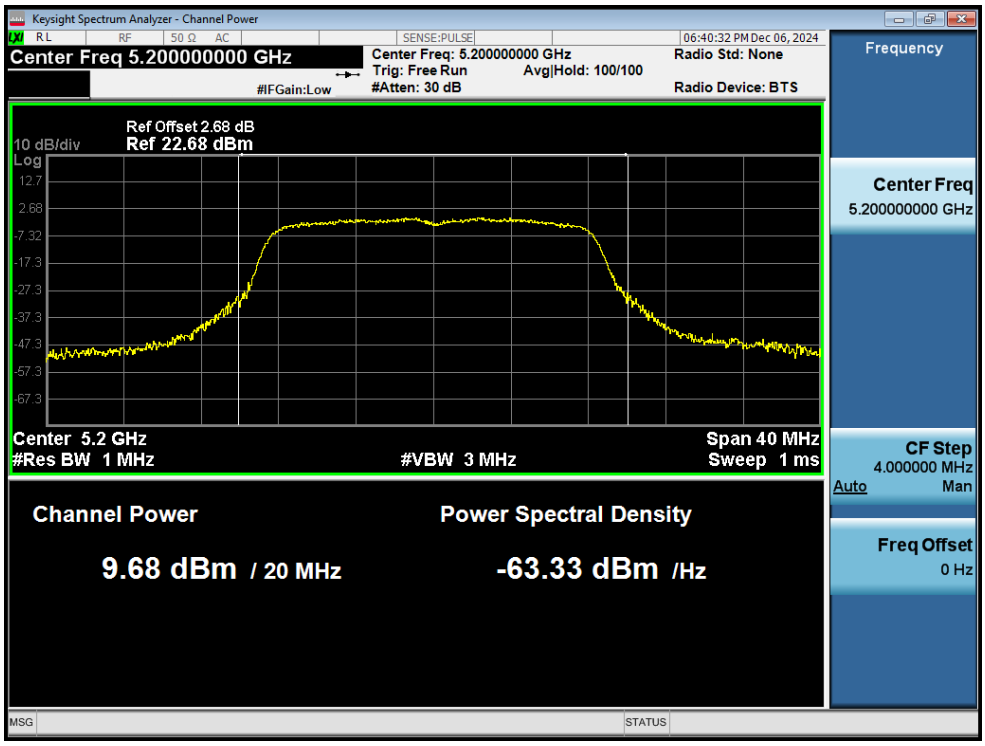
Duty Cycle NVNT ac40 5230MHz Ant1

2. Maximum Conducted Output Power

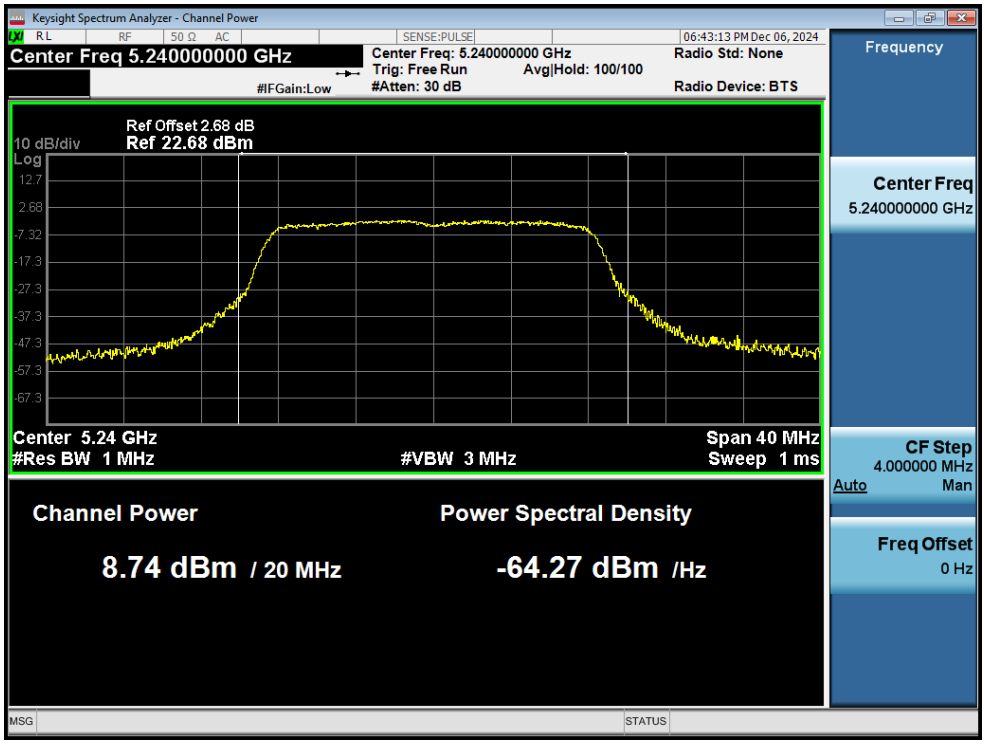
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	9.52	2.68	12.2	24	Pass
NVNT	a	5200	Ant1	9.68	1.63	11.31	24	Pass
NVNT	a	5240	Ant1	8.74	2.5	11.24	24	Pass
NVNT	n20	5180	Ant1	7.57	3.04	10.61	24	Pass
NVNT	n20	5200	Ant1	8.31	4.38	12.69	24	Pass
NVNT	n20	5240	Ant1	7.67	2.87	10.54	24	Pass
NVNT	n40	5190	Ant1	6.5	3.61	10.11	24	Pass
NVNT	n40	5230	Ant1	6.42	2.57	8.99	24	Pass
NVNT	ac20	5180	Ant1	9.85	0.88	10.73	24	Pass
NVNT	ac20	5200	Ant1	9.92	0.8	10.72	24	Pass
NVNT	ac20	5240	Ant1	9.51	0.78	10.29	24	Pass
NVNT	ac40	5190	Ant1	9.88	0.8	10.68	24	Pass
NVNT	ac40	5230	Ant1	9.07	0.82	9.89	24	Pass



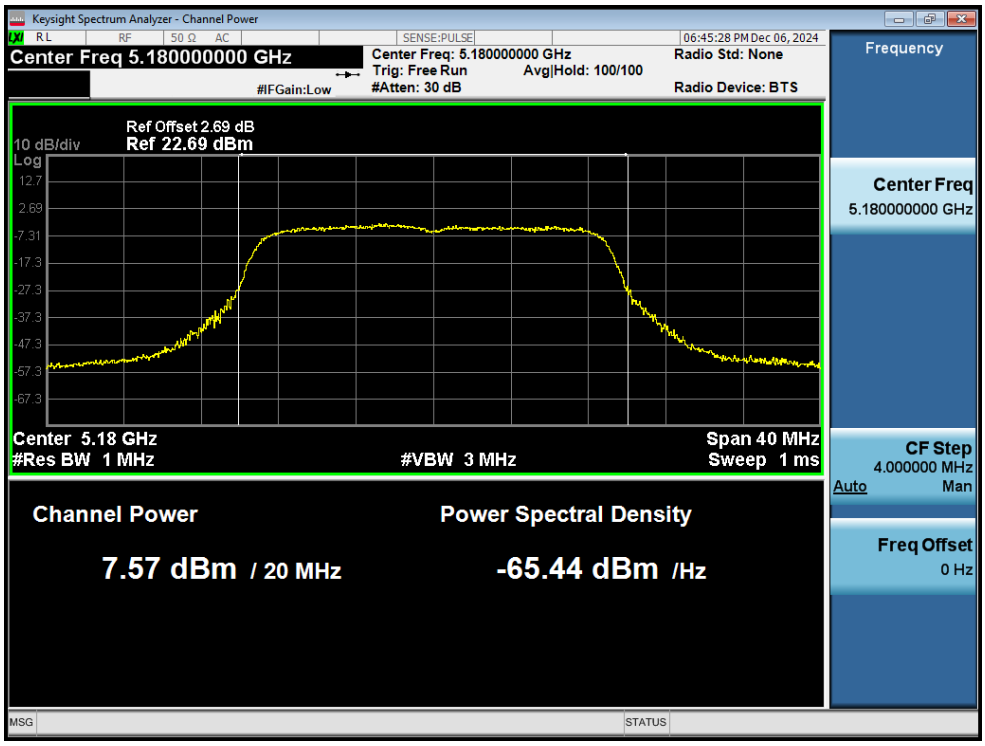
Power NVNT a 5180MHz Ant1



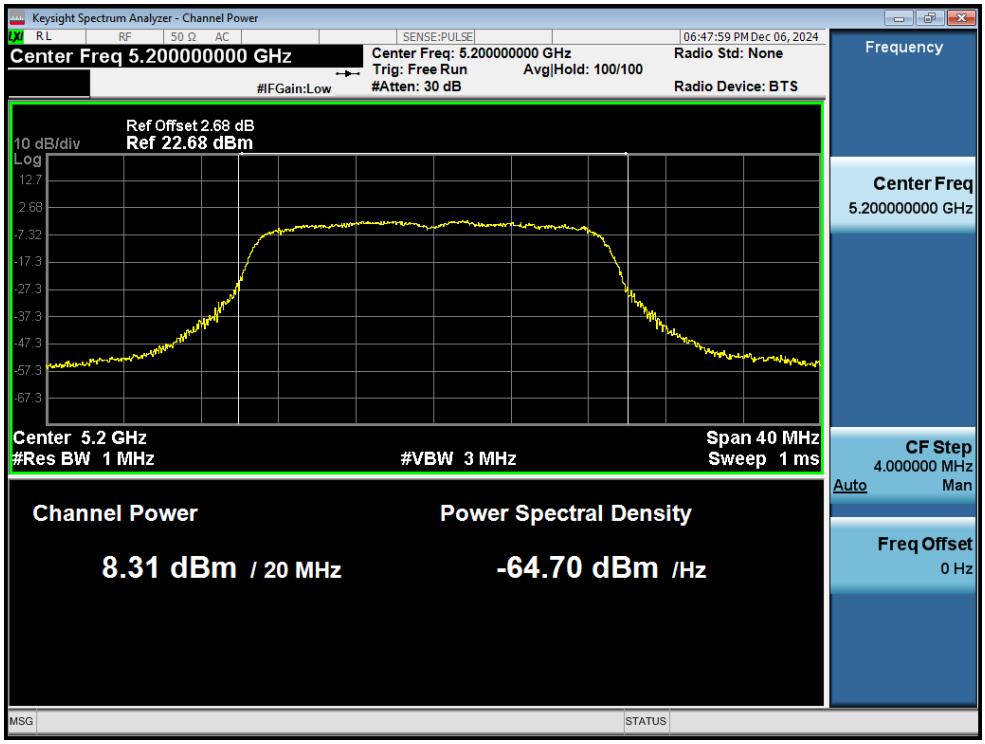
Power NVNT a 5200MHz Ant1



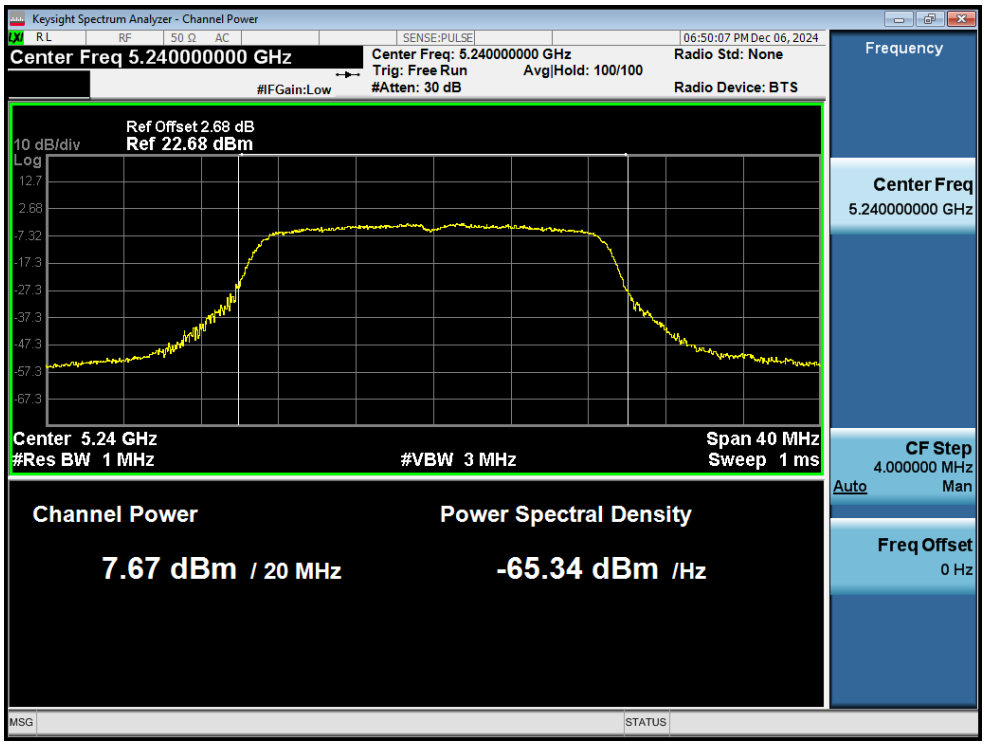
Power NVNT a 5240MHz Ant1



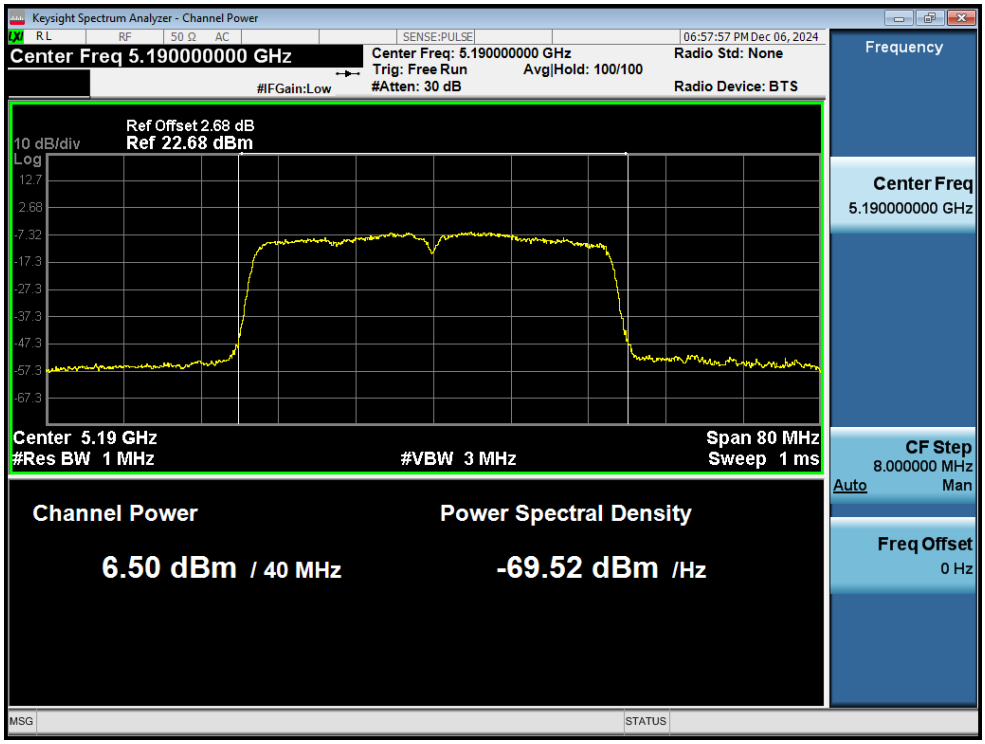
Power NVNT n20 5180MHz Ant1



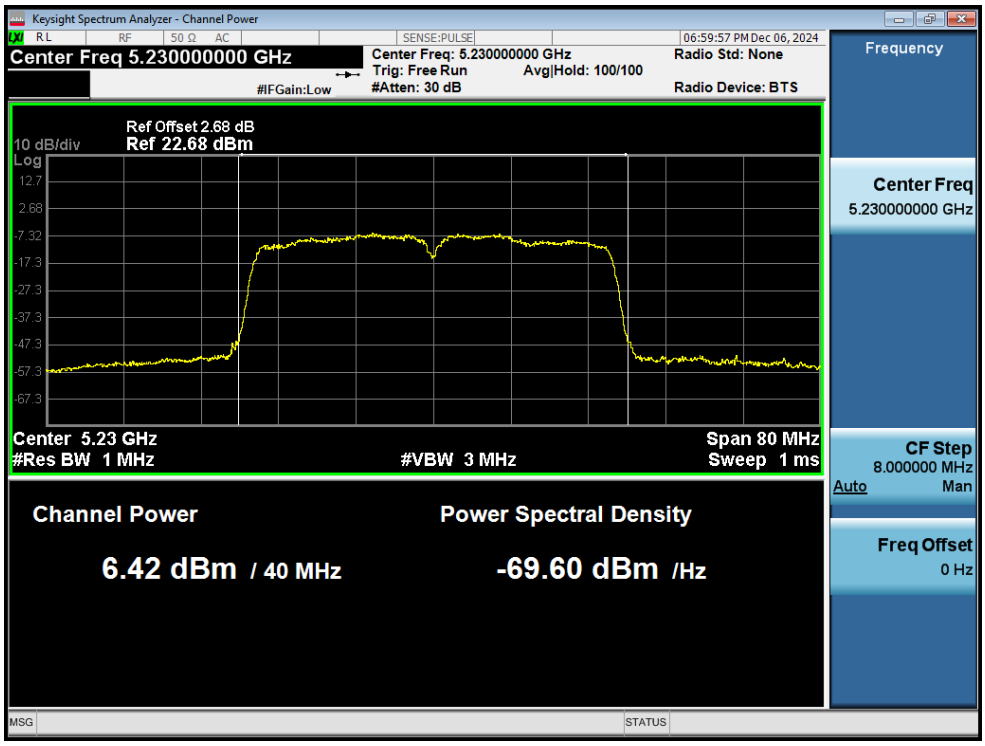
Power NVNT n20 5200MHz Ant1



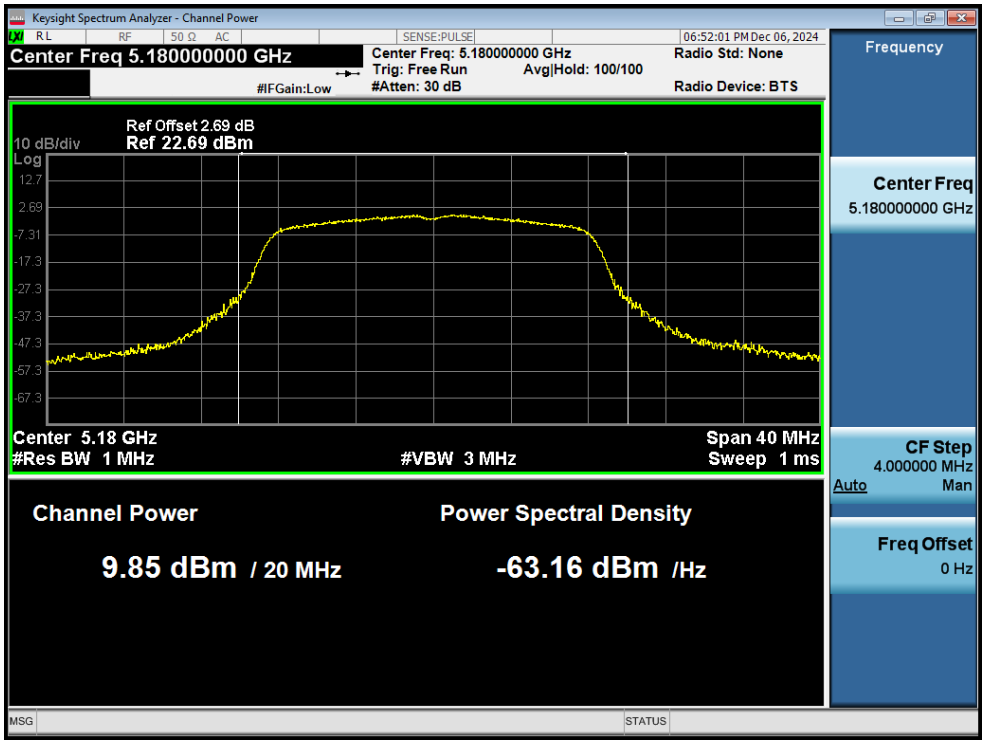
Power NVNT n20 5240MHz Ant1



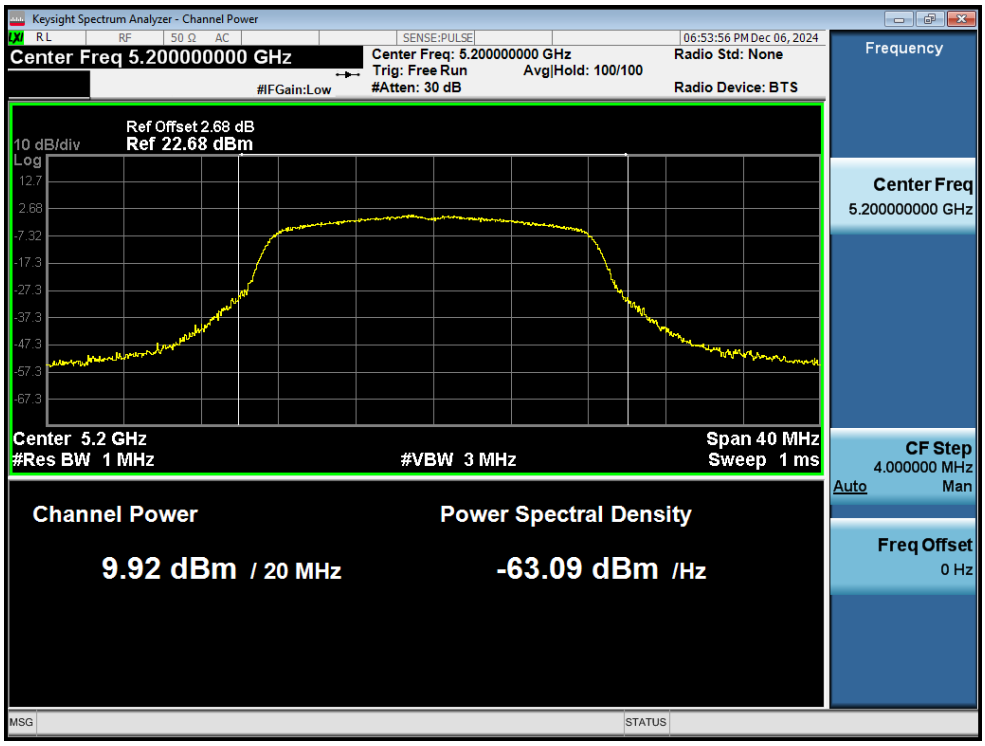
Power NVNT n40 5190MHz Ant1



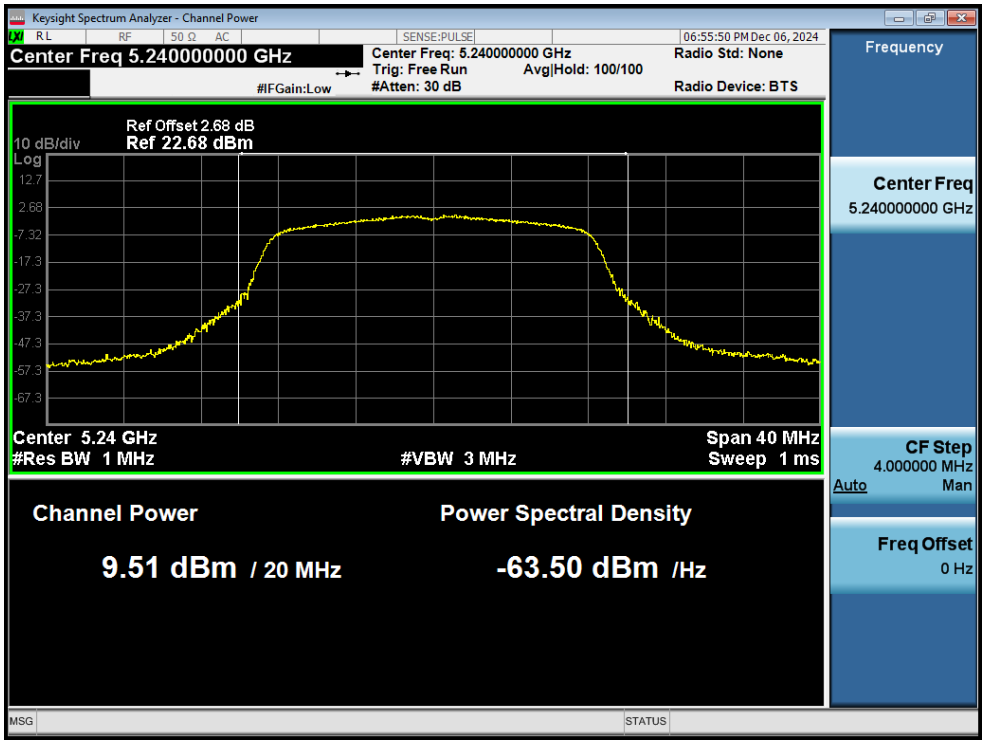
Power NVNT n40 5230MHz Ant1



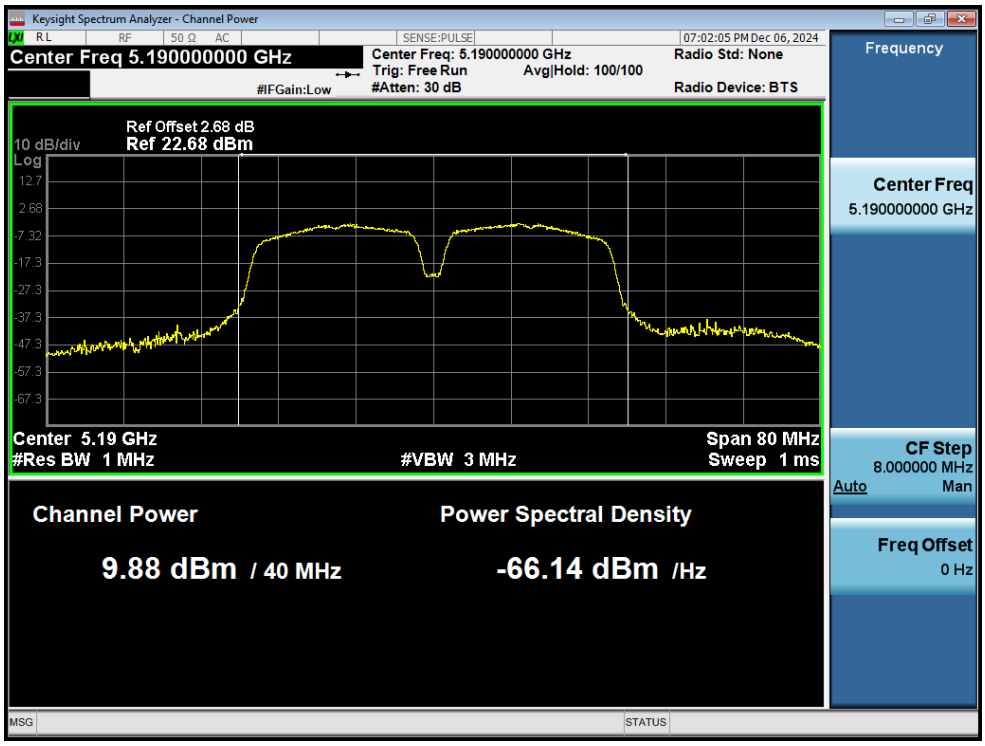
Power NVNT ac20 5180MHz Ant1



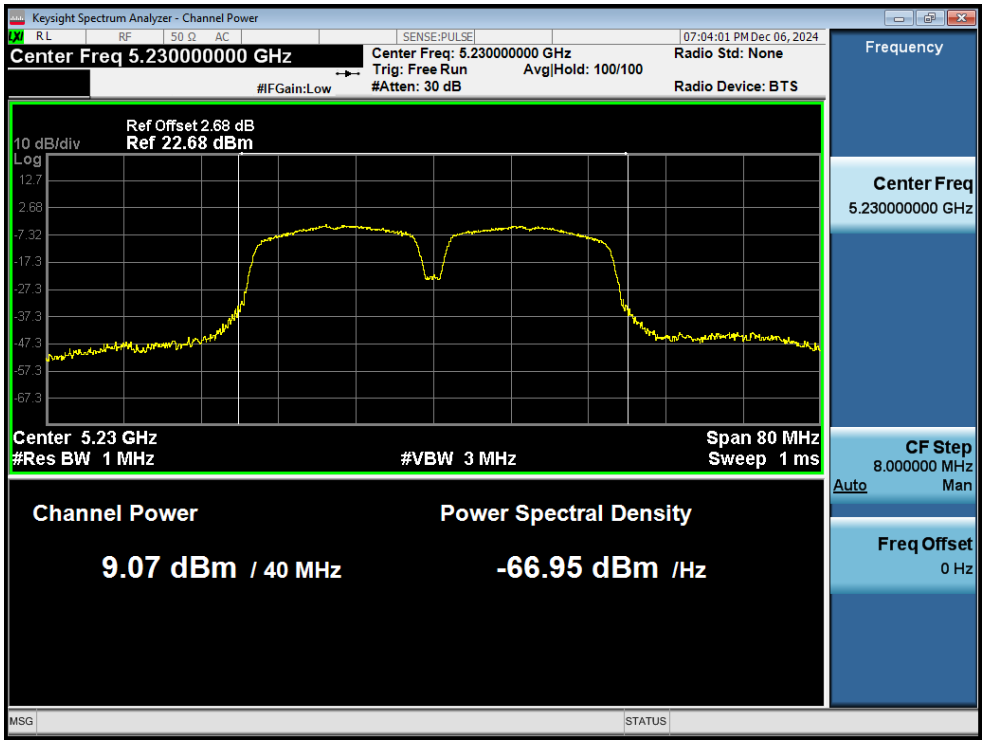
Power NVNT ac20 5200MHz Ant1



Power NVNT ac20 5240MHz Ant1



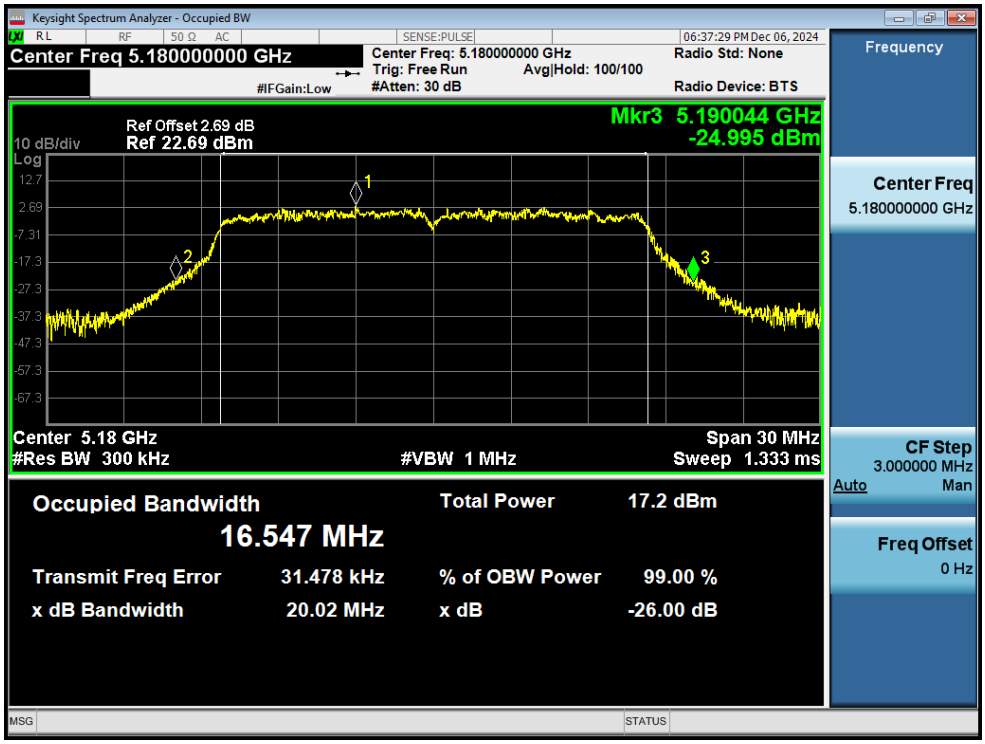
Power NVNT ac40 5190MHz Ant1



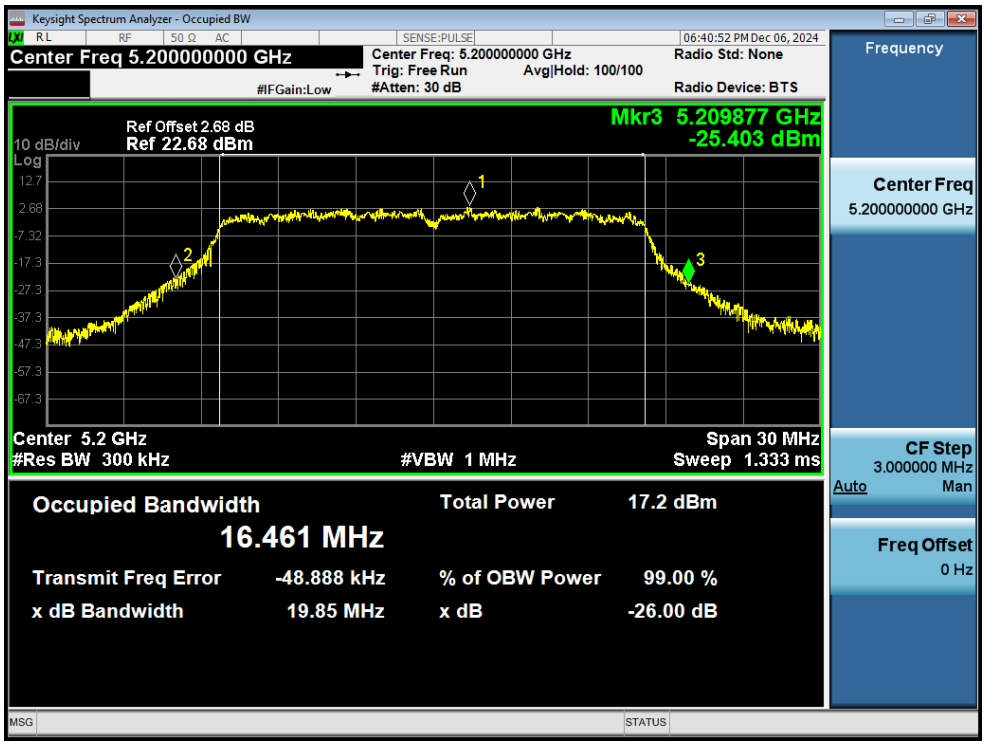
Power NVNT ac40 5230MHz Ant1

3. -26dB Bandwidth

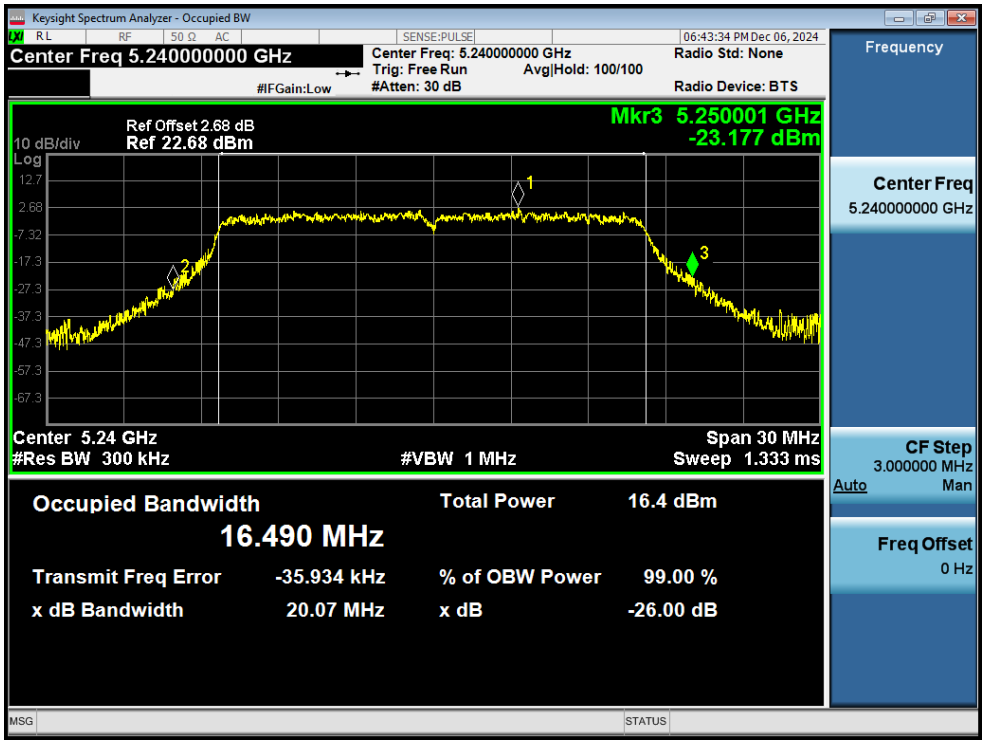
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.024	Pass
NVNT	a	5200	Ant1	19.851	Pass
NVNT	a	5240	Ant1	20.074	Pass
NVNT	n20	5180	Ant1	20.426	Pass
NVNT	n20	5200	Ant1	20.31	Pass
NVNT	n20	5240	Ant1	20.44	Pass
NVNT	n40	5190	Ant1	37.542	Pass
NVNT	n40	5230	Ant1	37.888	Pass
NVNT	ac20	5180	Ant1	19.638	Pass
NVNT	ac20	5200	Ant1	19.647	Pass
NVNT	ac20	5240	Ant1	19.811	Pass
NVNT	ac40	5190	Ant1	39.831	Pass
NVNT	ac40	5230	Ant1	39.43	Pass



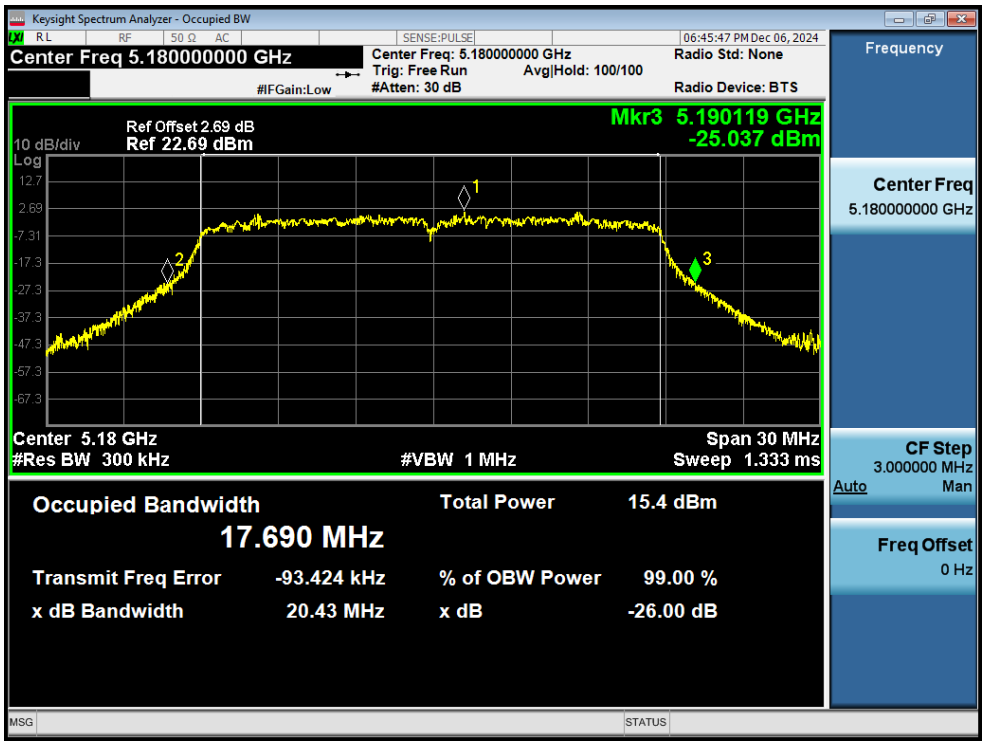
-26dB Bandwidth NVNT a 5180MHz Ant1



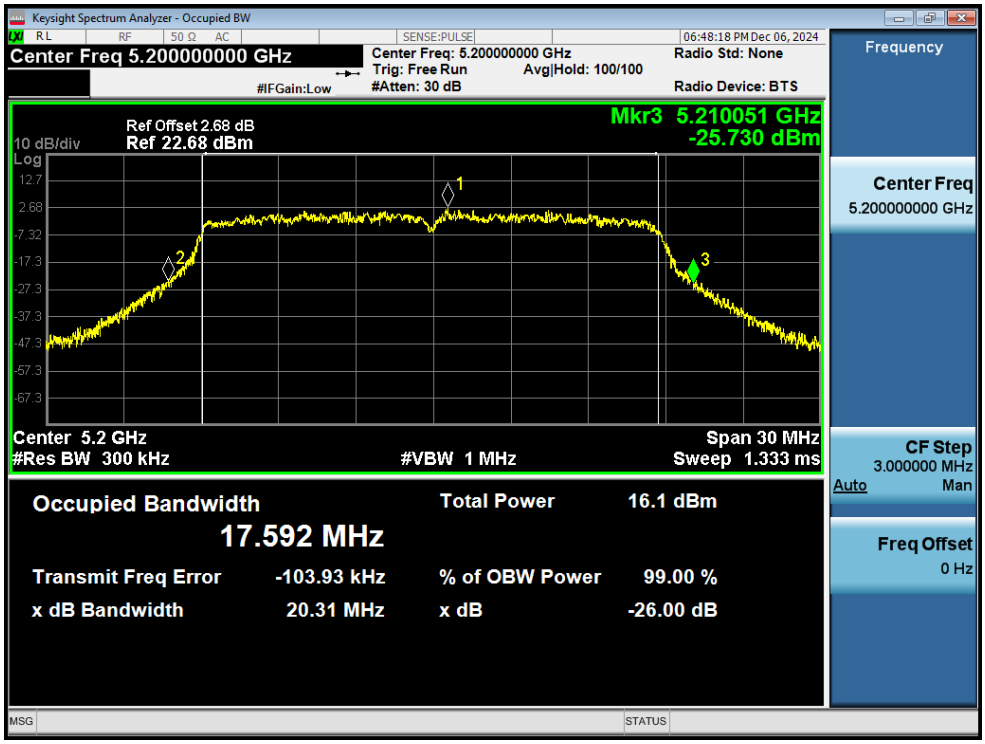
-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1

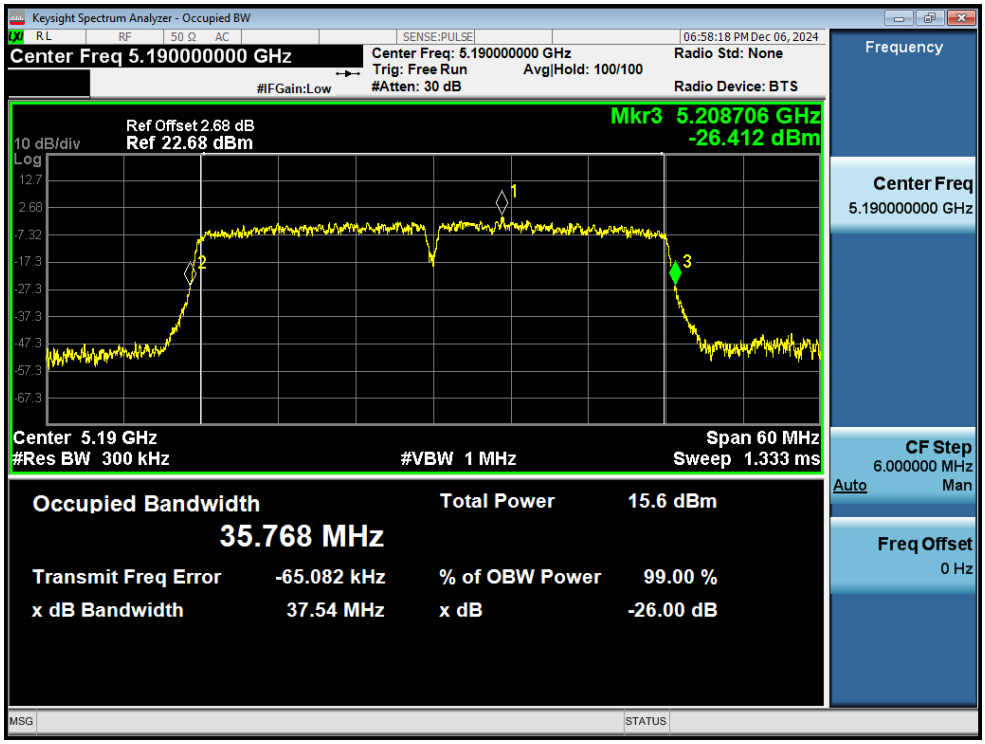


-26dB Bandwidth NVNT n20 5180MHz Ant1

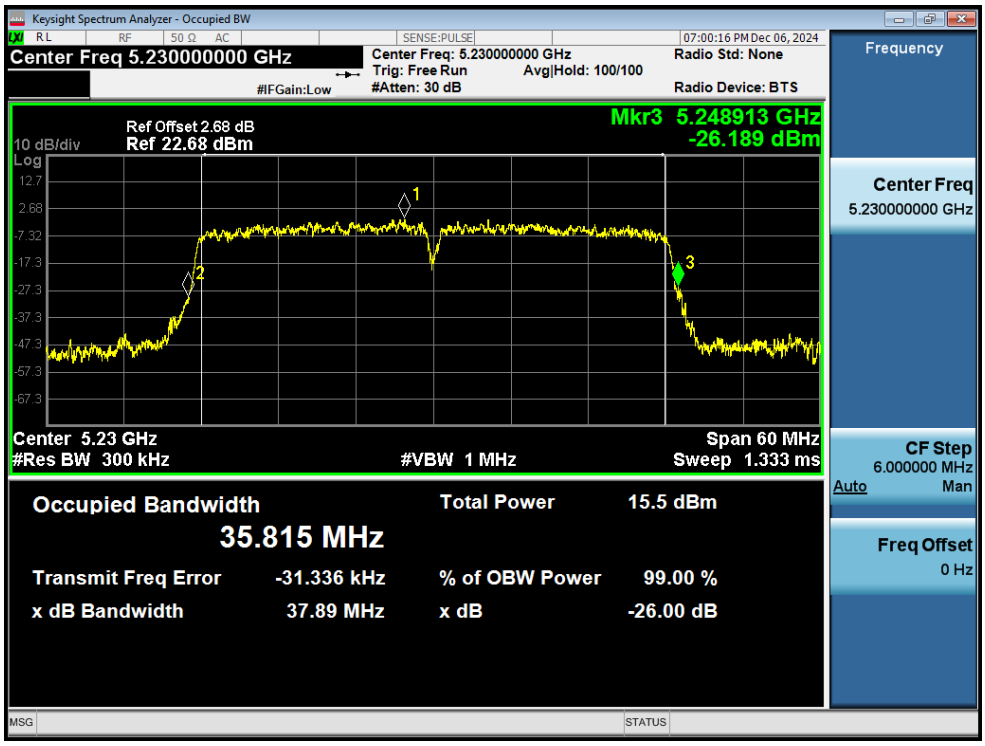


-26dB Bandwidth NVNT n20 5200MHz Ant1

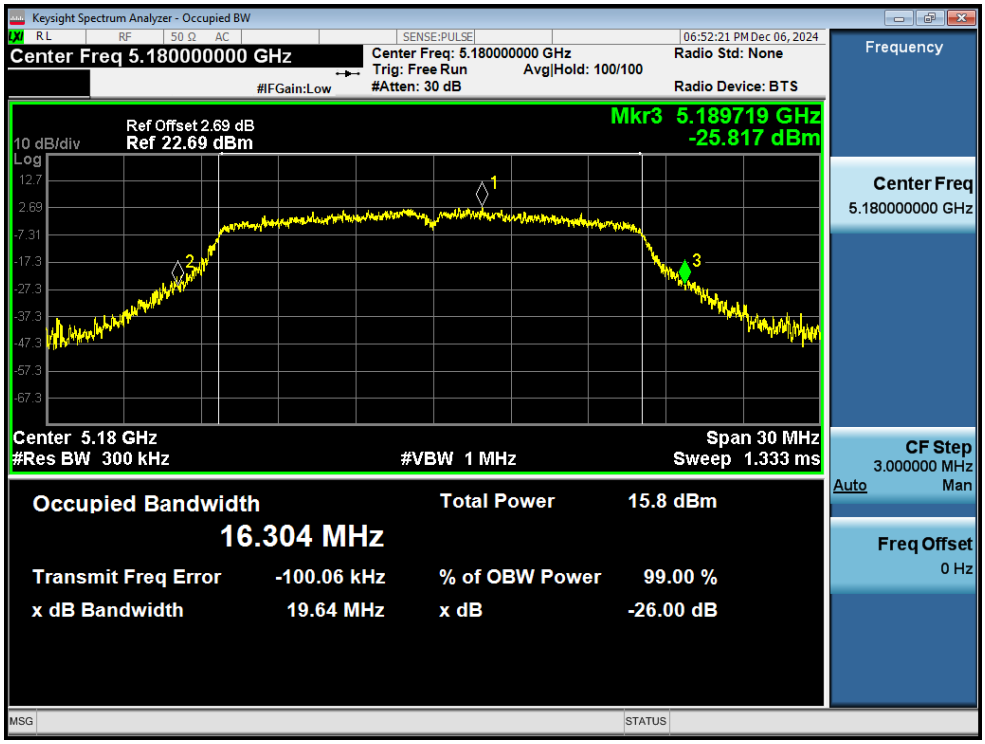
-26dB Bandwidth NVNT n20 5240MHz Ant1



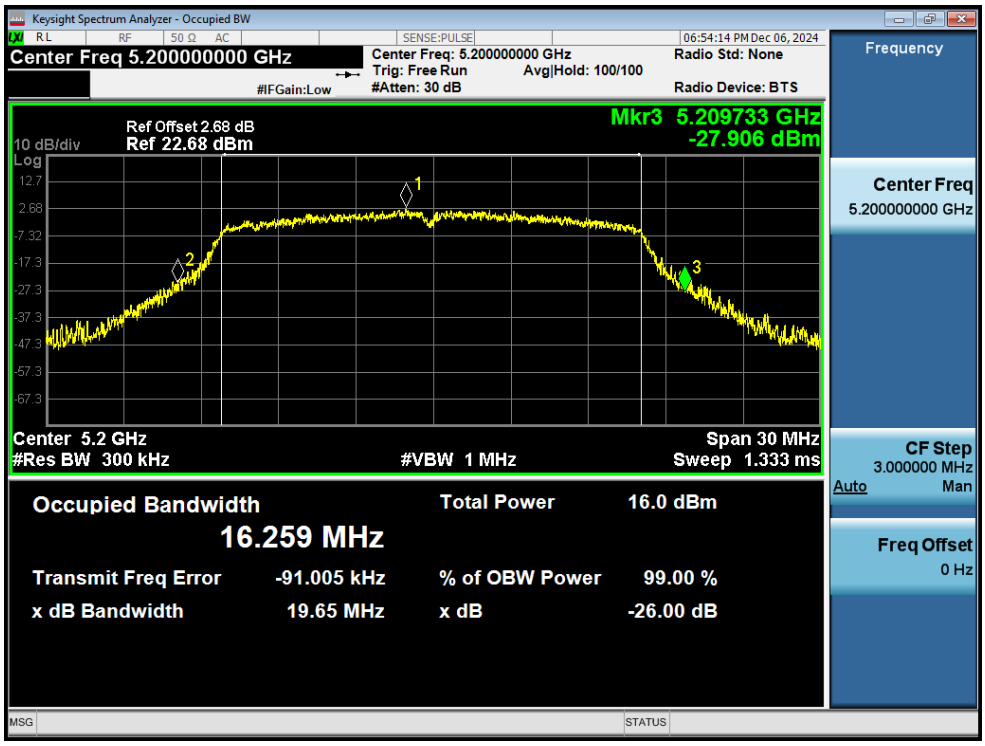
-26dB Bandwidth NVNT n40 5190MHz Ant1



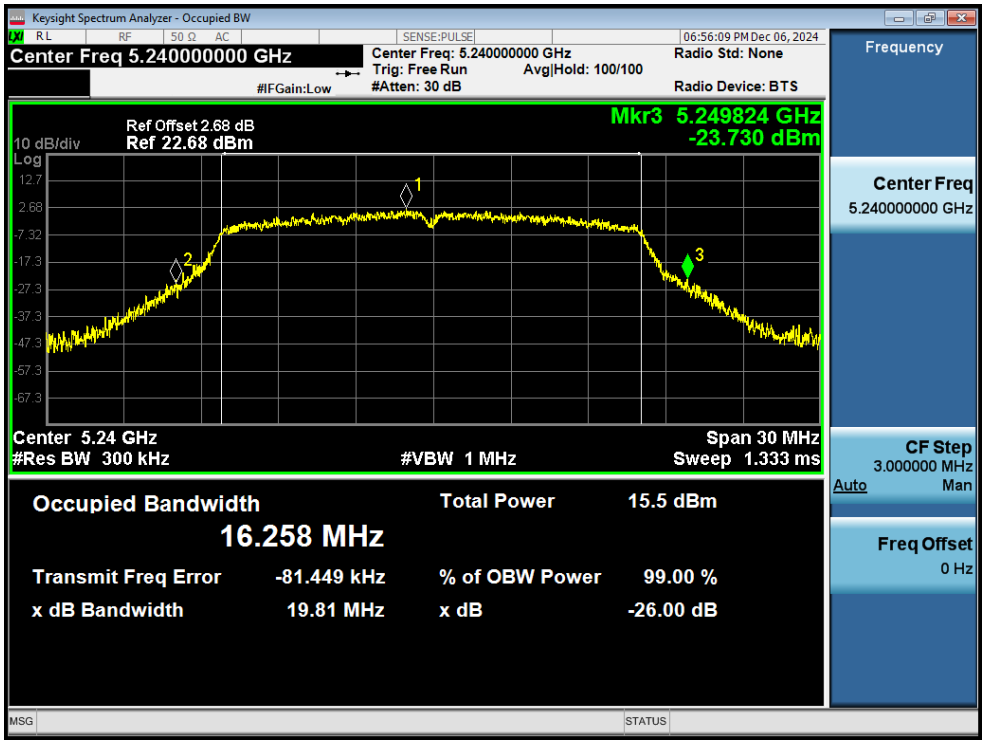
-26dB Bandwidth NVNT n40 5230MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1

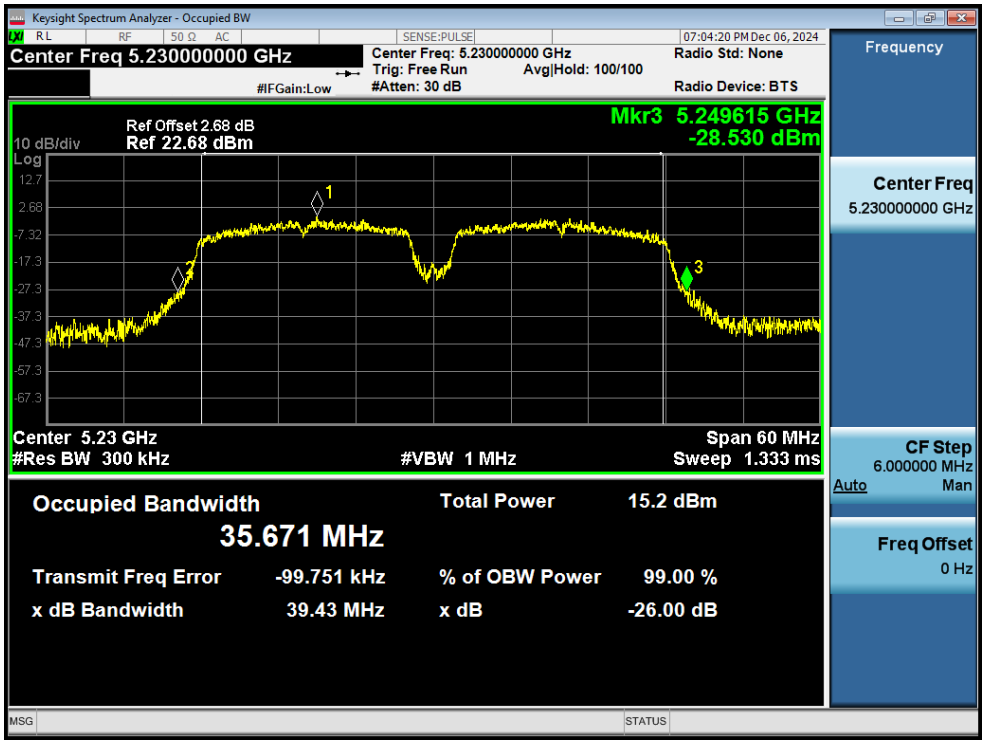


-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1

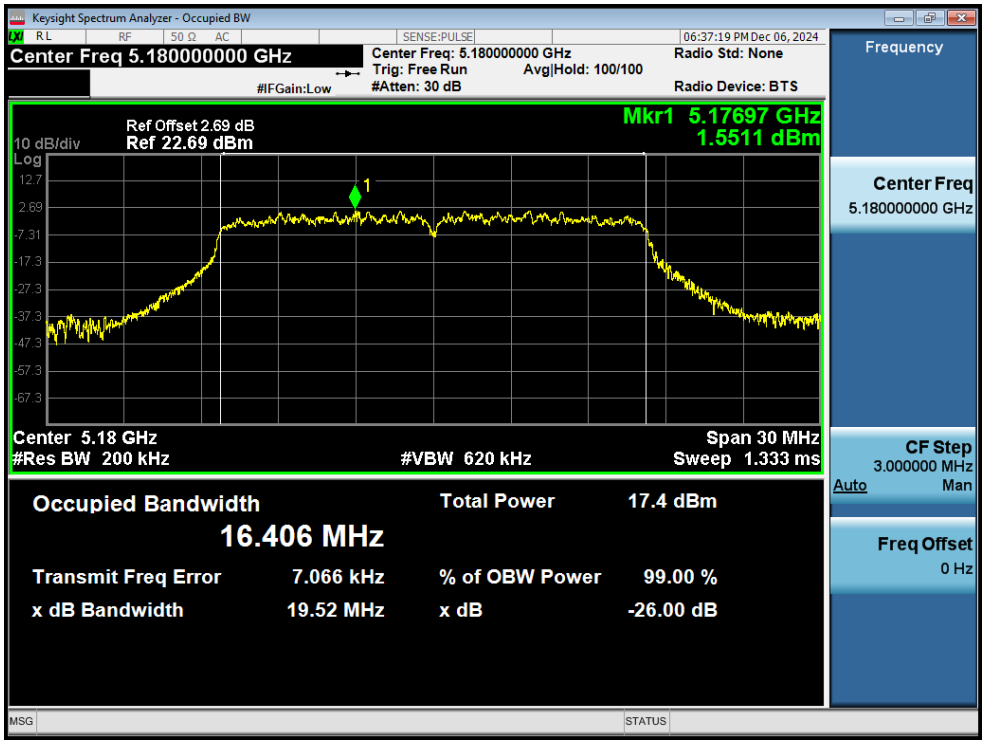
-26dB Bandwidth NVNT ac40 5190MHz Ant1



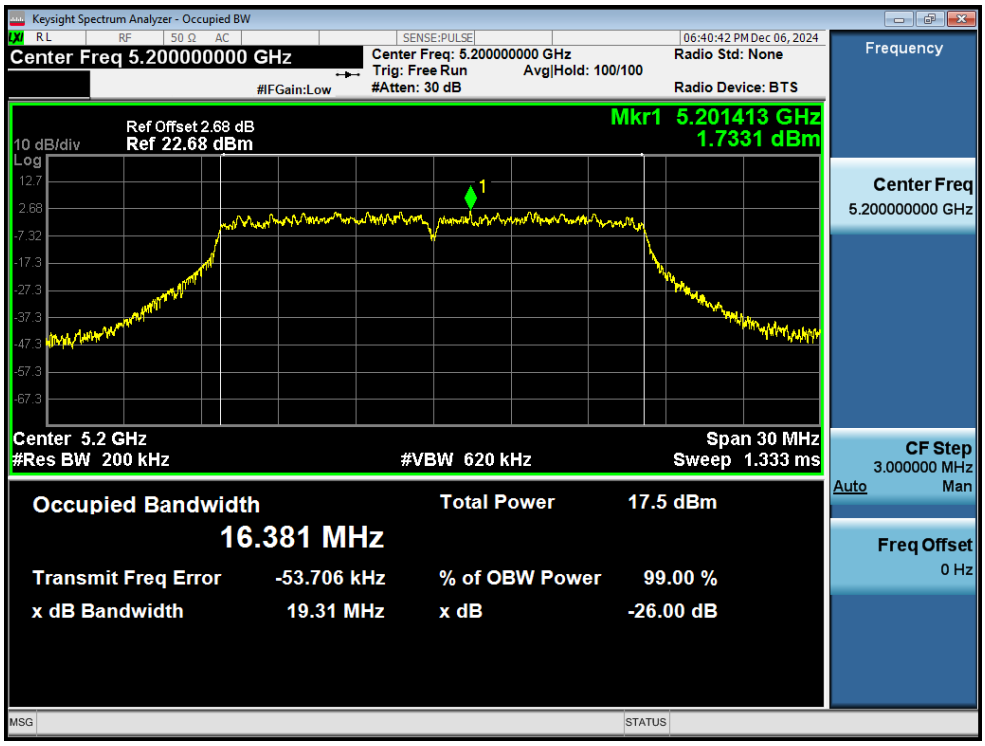
-26dB Bandwidth NVNT ac40 5230MHz Ant1

4. Occupied Channel Bandwidth

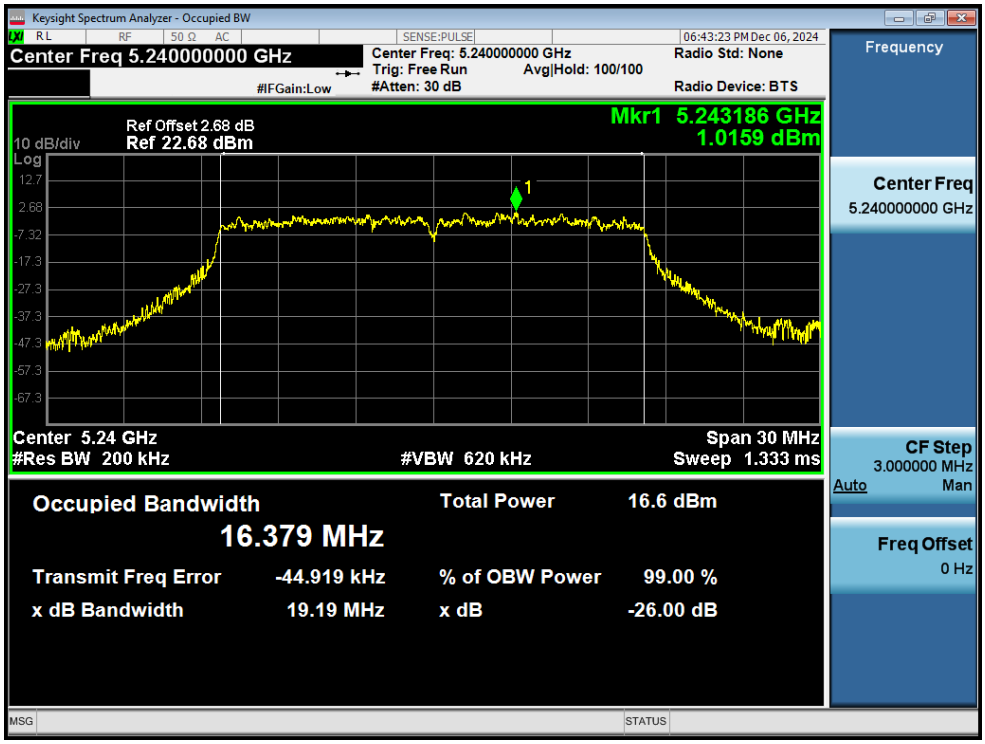
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.406
NVNT	a	5200	Ant1	16.381
NVNT	a	5240	Ant1	16.379
NVNT	n20	5180	Ant1	17.62
NVNT	n20	5200	Ant1	17.57
NVNT	n20	5240	Ant1	17.567
NVNT	n40	5190	Ant1	35.801
NVNT	n40	5230	Ant1	35.813
NVNT	ac20	5180	Ant1	16.22
NVNT	ac20	5200	Ant1	16.195
NVNT	ac20	5240	Ant1	16.2
NVNT	ac40	5190	Ant1	35.648
NVNT	ac40	5230	Ant1	35.773



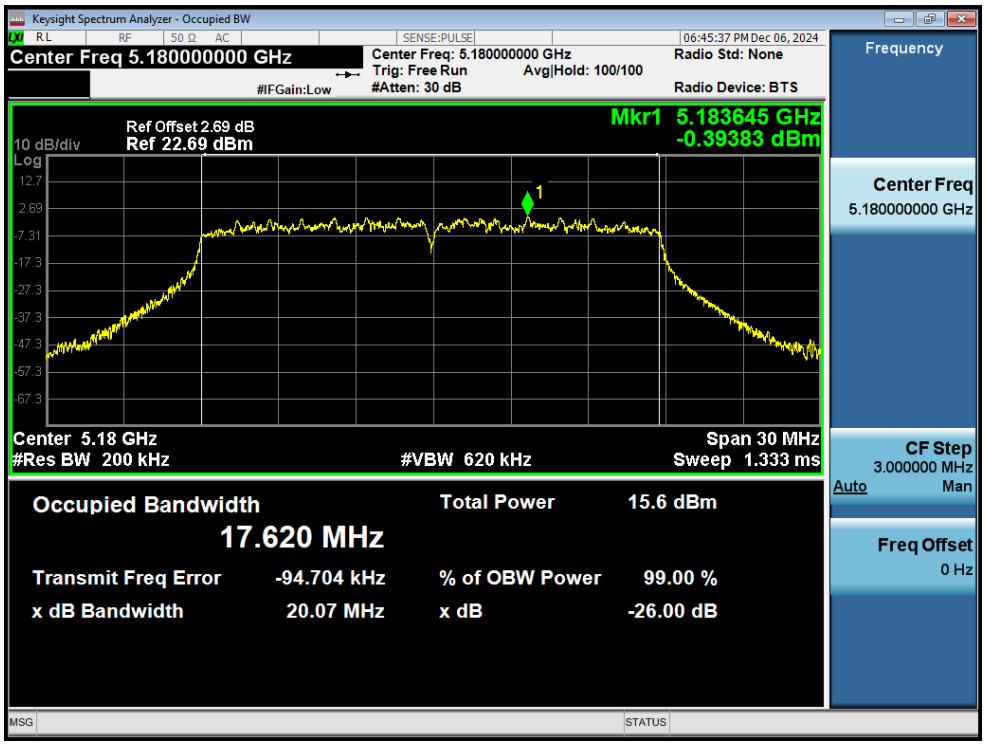
OBW NVNT a 5180MHz Ant1



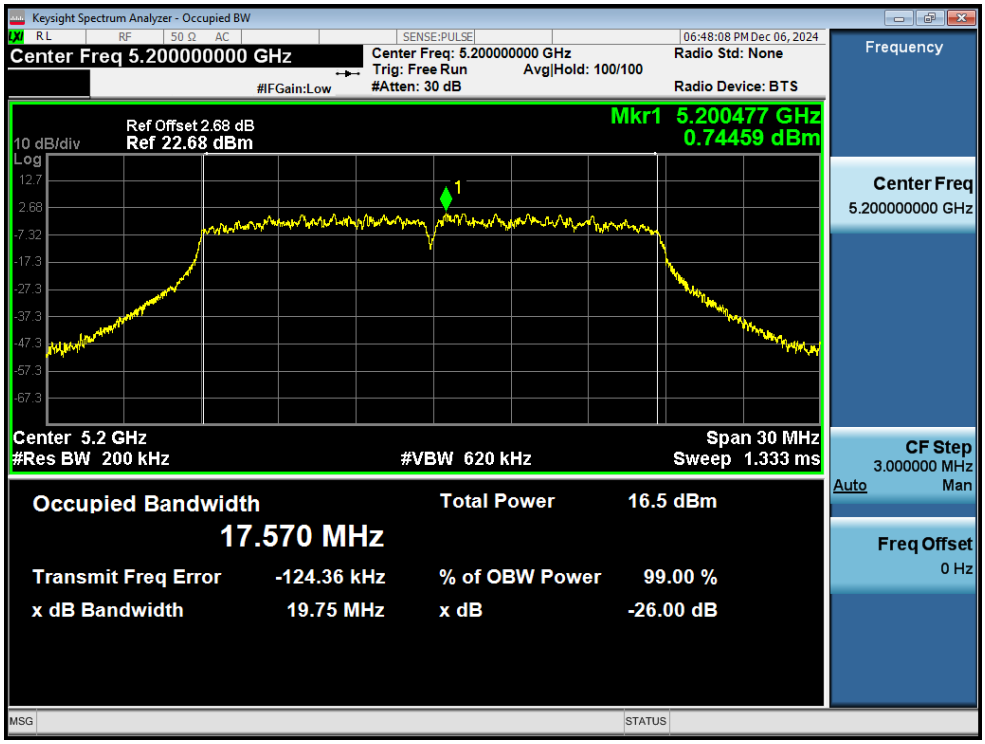
OBW NVNT a 5200MHz Ant1



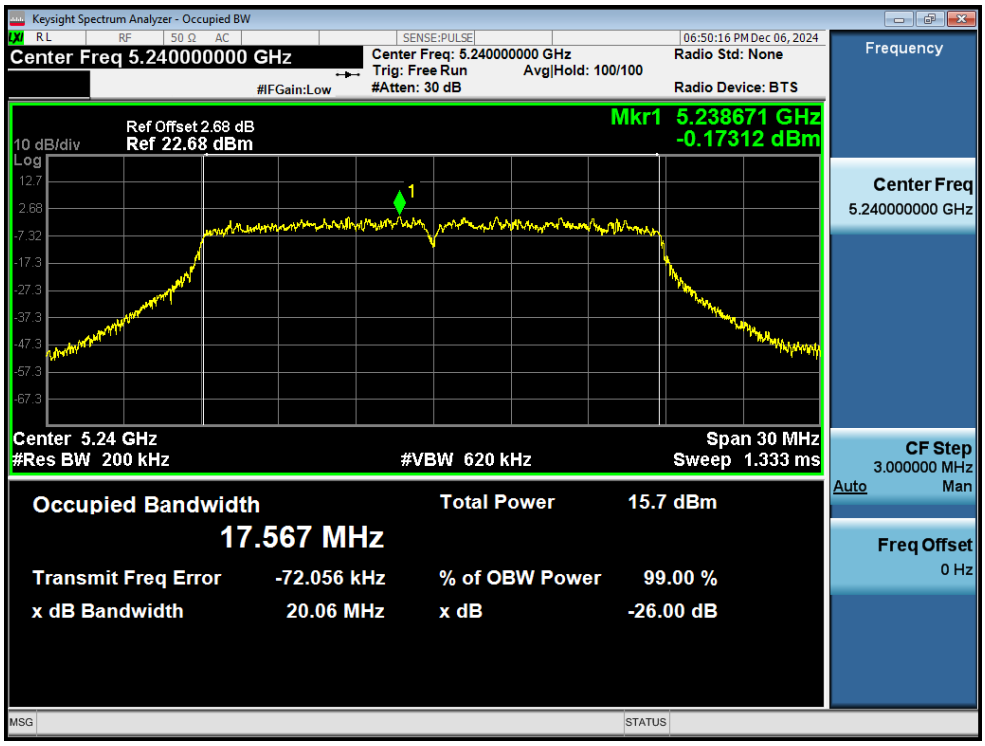
OBW NVNT a 5240MHz Ant1



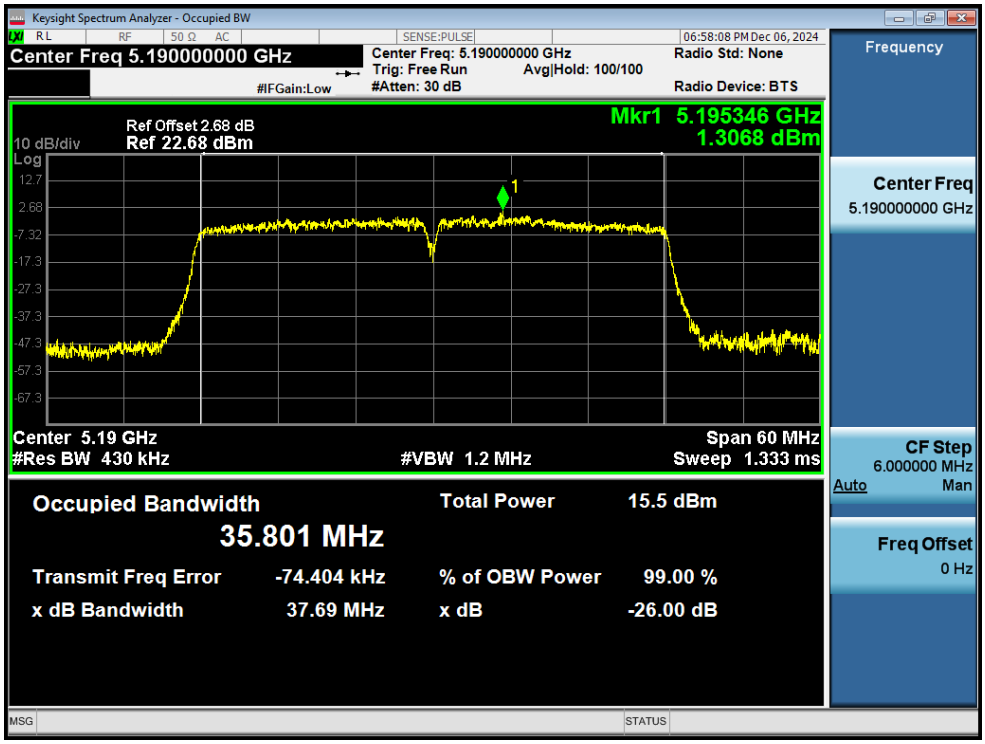
OBW NVNT n20 5180MHz Ant1



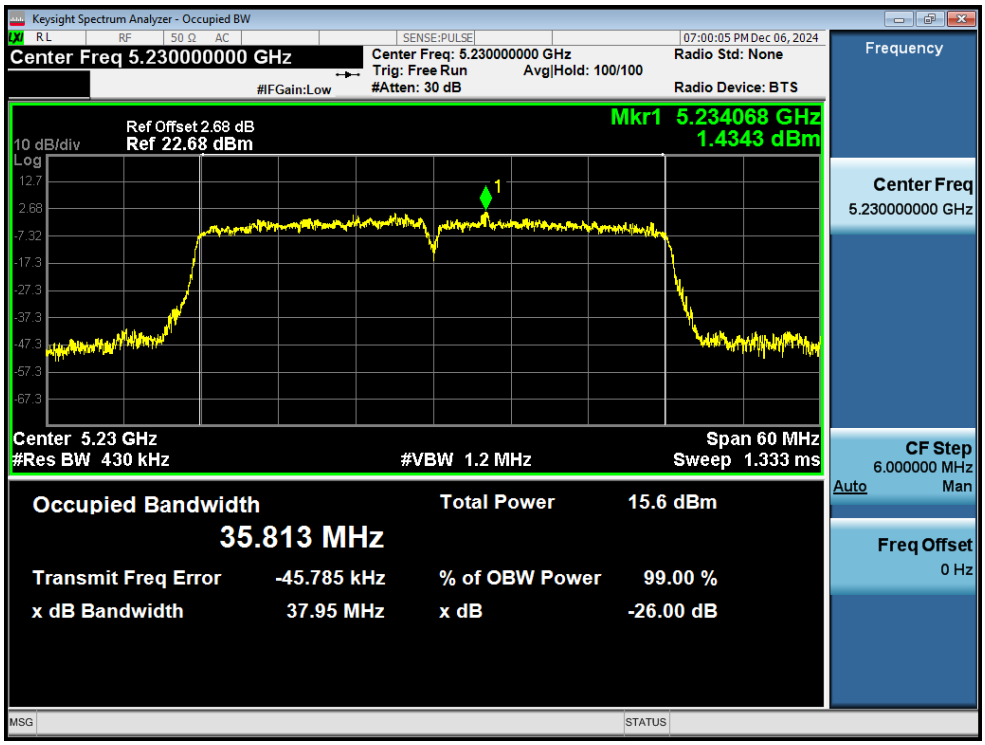
OBW NVNT n20 5200MHz Ant1



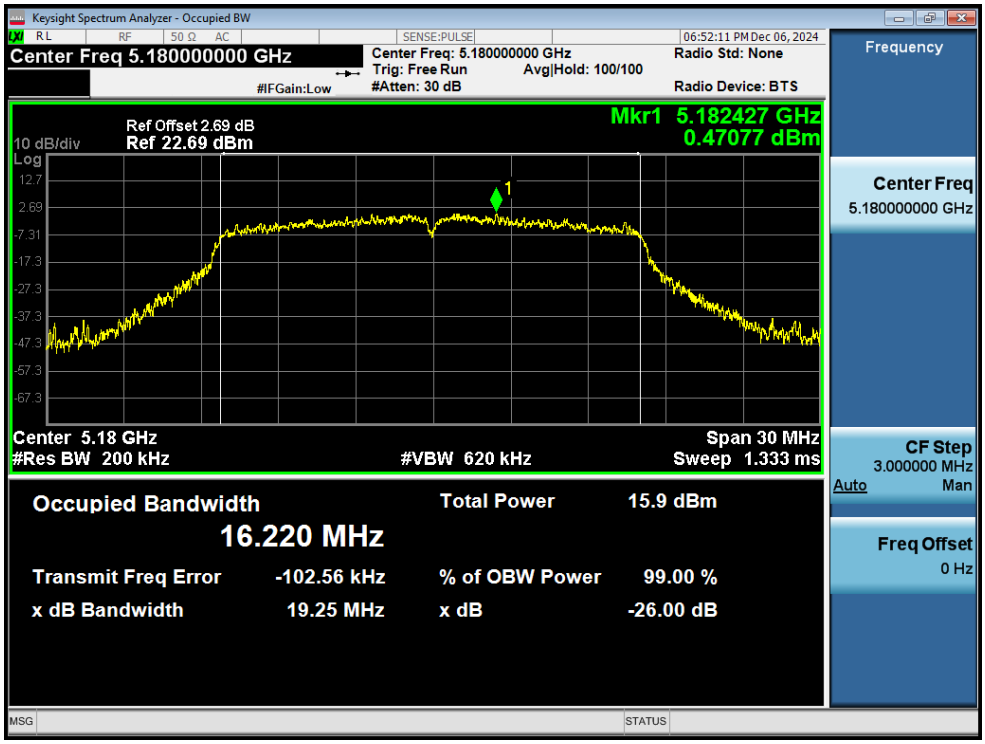
OBW NVNT n20 5240MHz Ant1



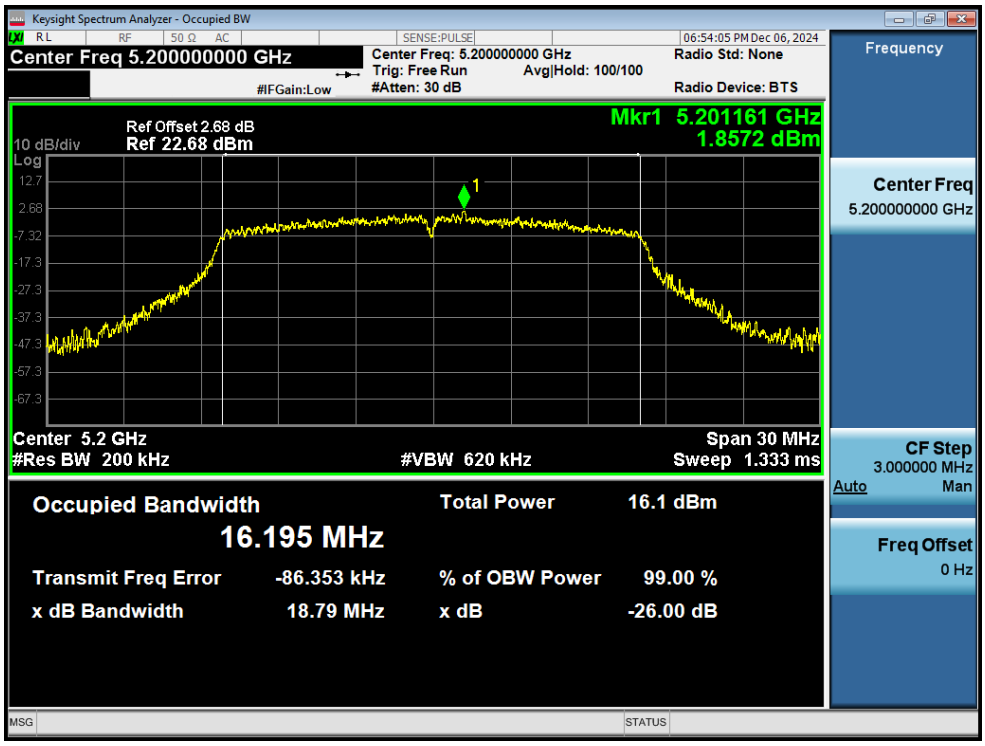
OBW NVNT n40 5190MHz Ant1



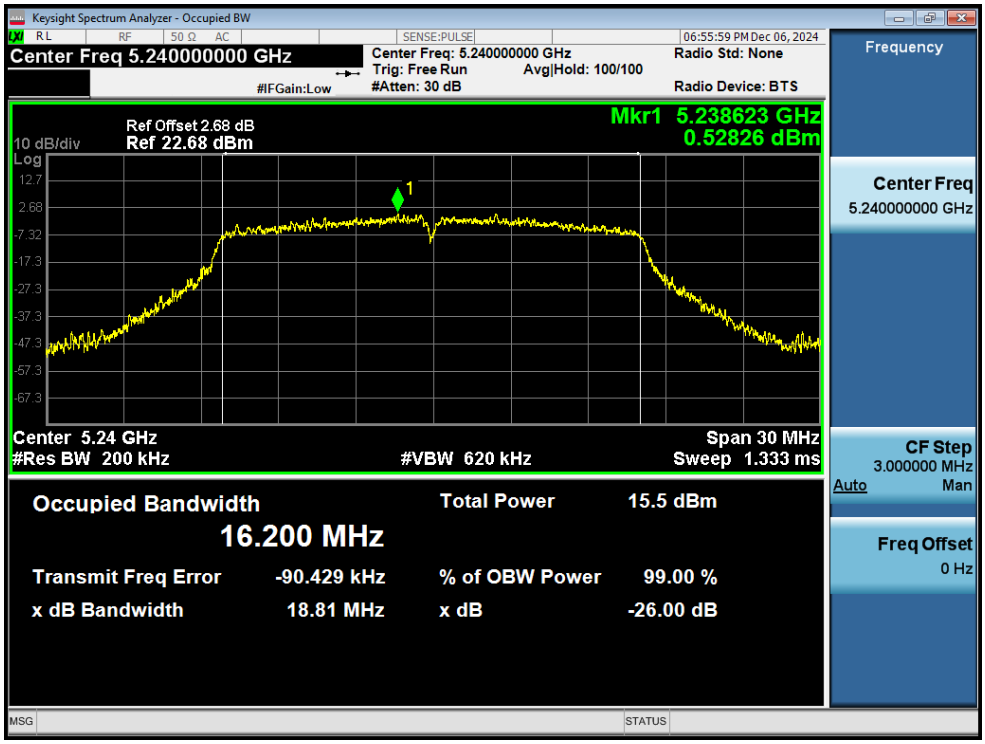
OBW NVNT n40 5230MHz Ant1



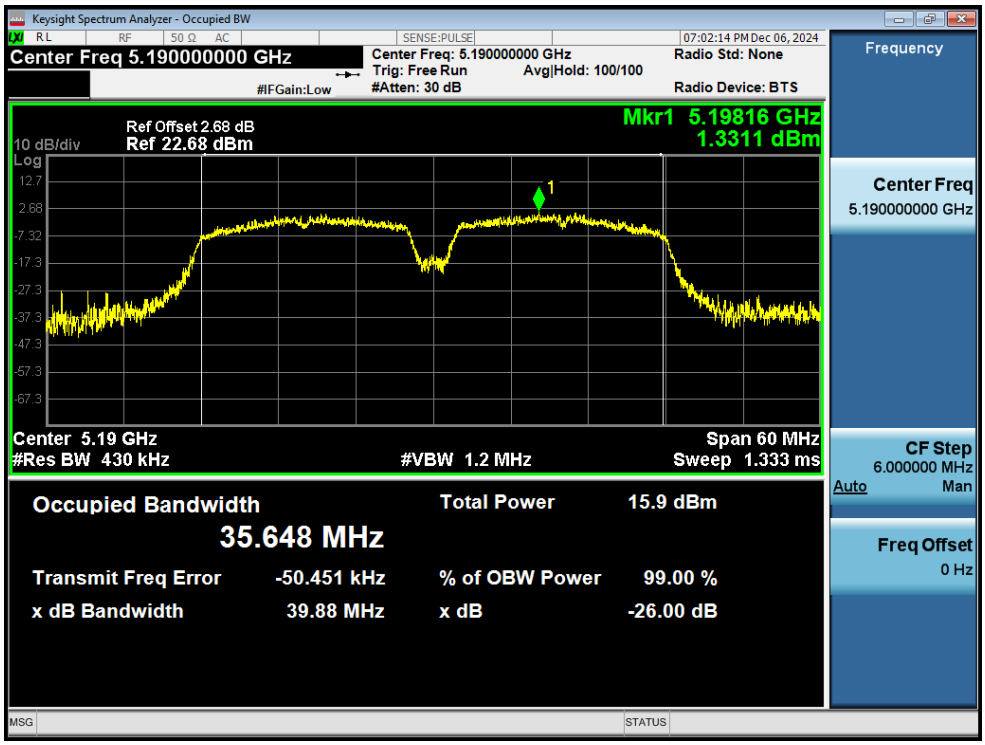
OBW NVNT ac20 5180MHz Ant1



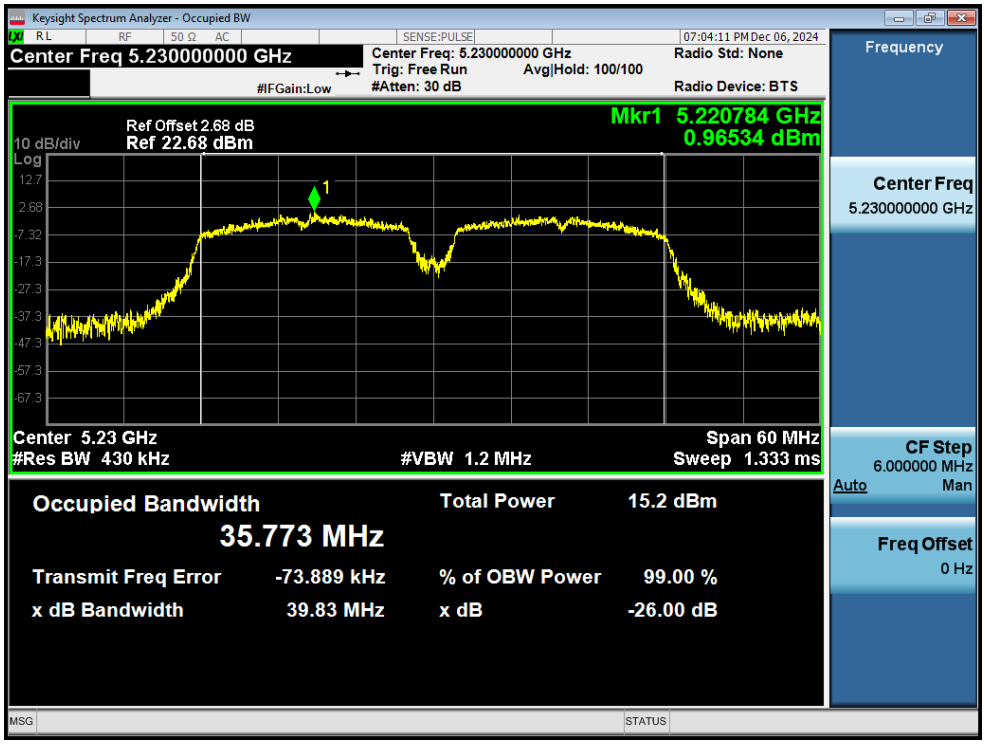
OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1



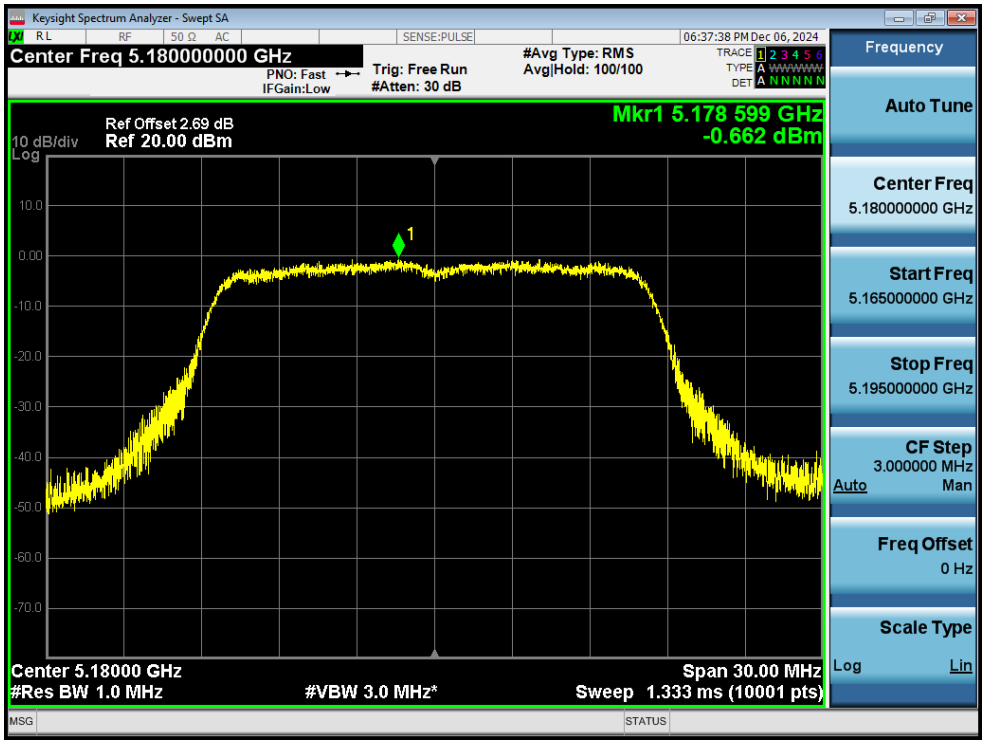
OBW NVNT ac40 5190MHz Ant1



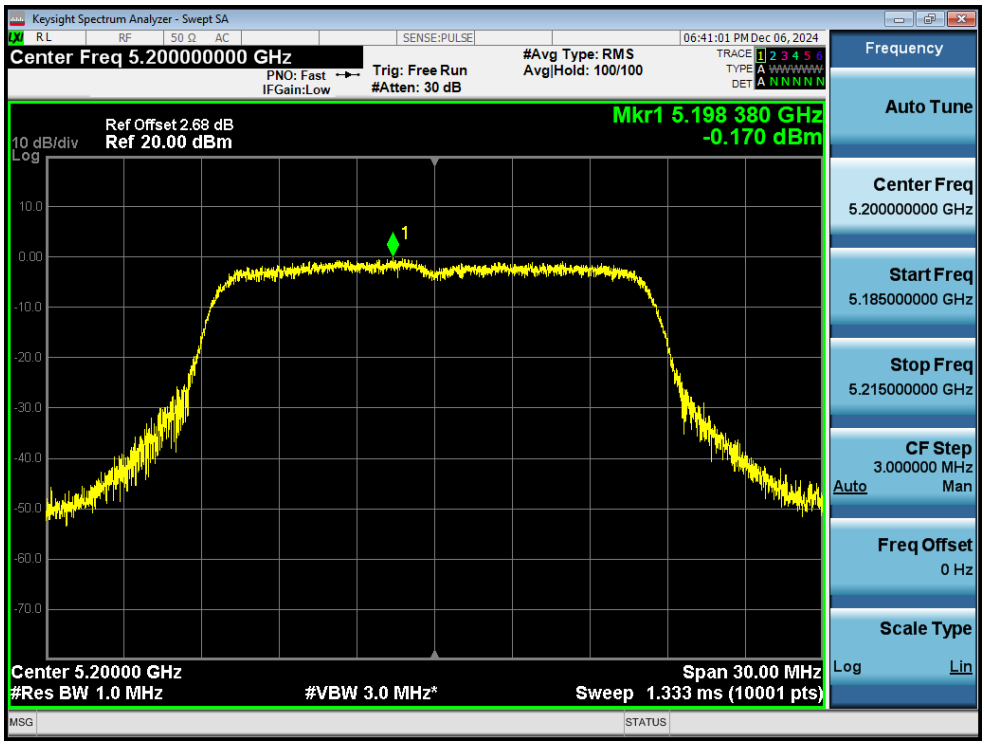
OBW NVNT ac40 5230MHz Ant1

5. Maximum Power Spectral Density Level

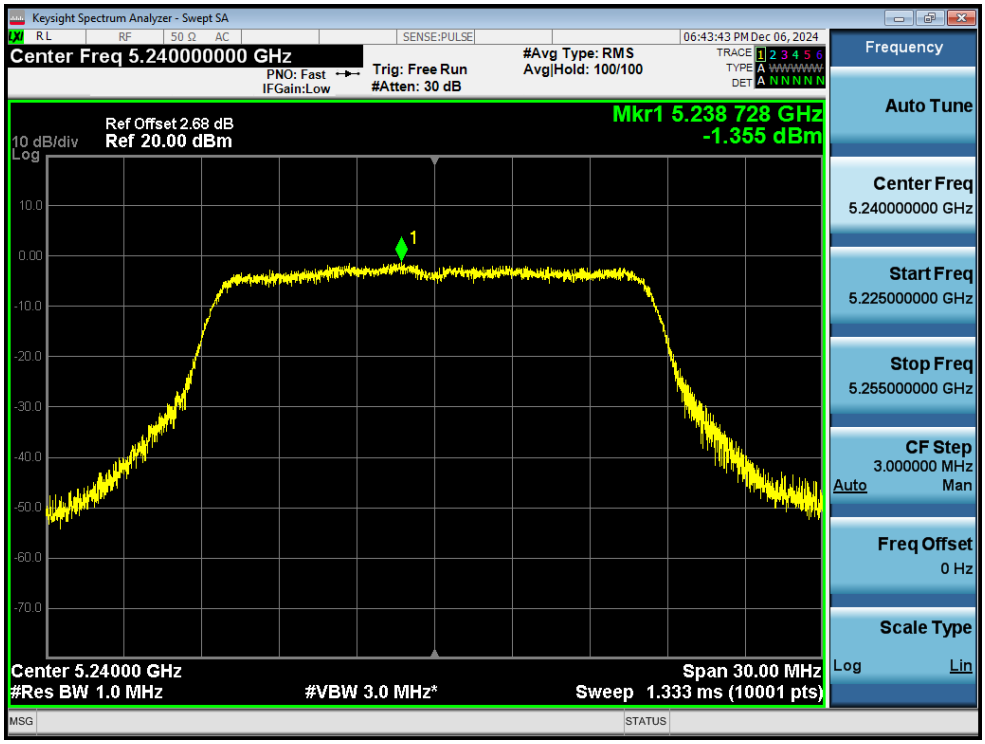
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.66	2.68	2.02	11	Pass
NVNT	a	5200	Ant1	-0.17	1.63	1.46	11	Pass
NVNT	a	5240	Ant1	-1.36	2.5	1.14	11	Pass
NVNT	n20	5180	Ant1	-2.39	3.04	0.65	11	Pass
NVNT	n20	5200	Ant1	-1.91	4.38	2.47	11	Pass
NVNT	n20	5240	Ant1	-2.54	2.87	0.33	11	Pass
NVNT	n40	5190	Ant1	-5.65	3.61	-2.04	11	Pass
NVNT	n40	5230	Ant1	-5.55	2.57	-2.98	11	Pass
NVNT	ac20	5180	Ant1	0.7	0.88	1.58	11	Pass
NVNT	ac20	5200	Ant1	0.82	0.8	1.62	11	Pass
NVNT	ac20	5240	Ant1	0.26	0.78	1.04	11	Pass
NVNT	ac40	5190	Ant1	-2.37	0.8	-1.57	11	Pass
NVNT	ac40	5230	Ant1	-3.04	0.82	-2.22	11	Pass



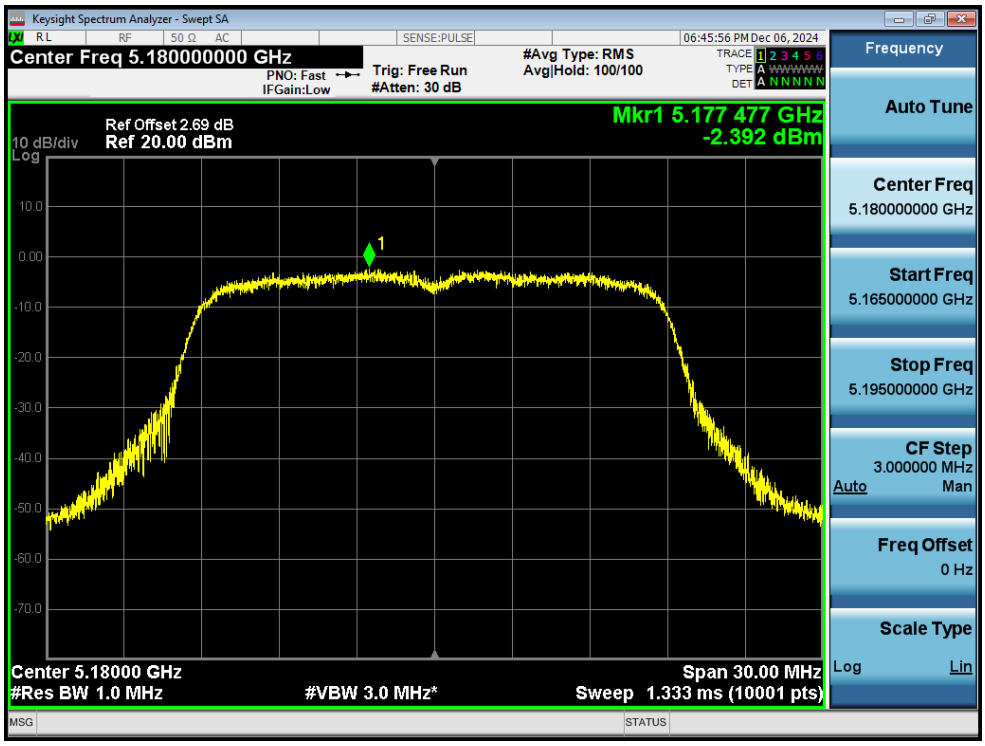
PSD NVNT a 5180MHz Ant1



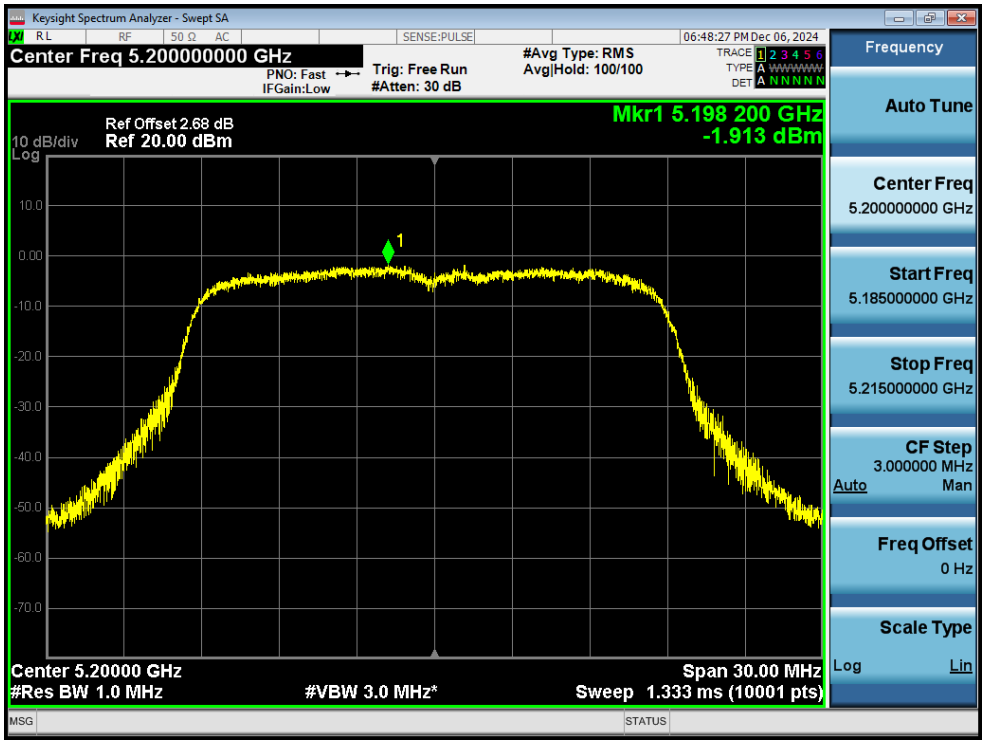
PSD NVNT a 5200MHz Ant1



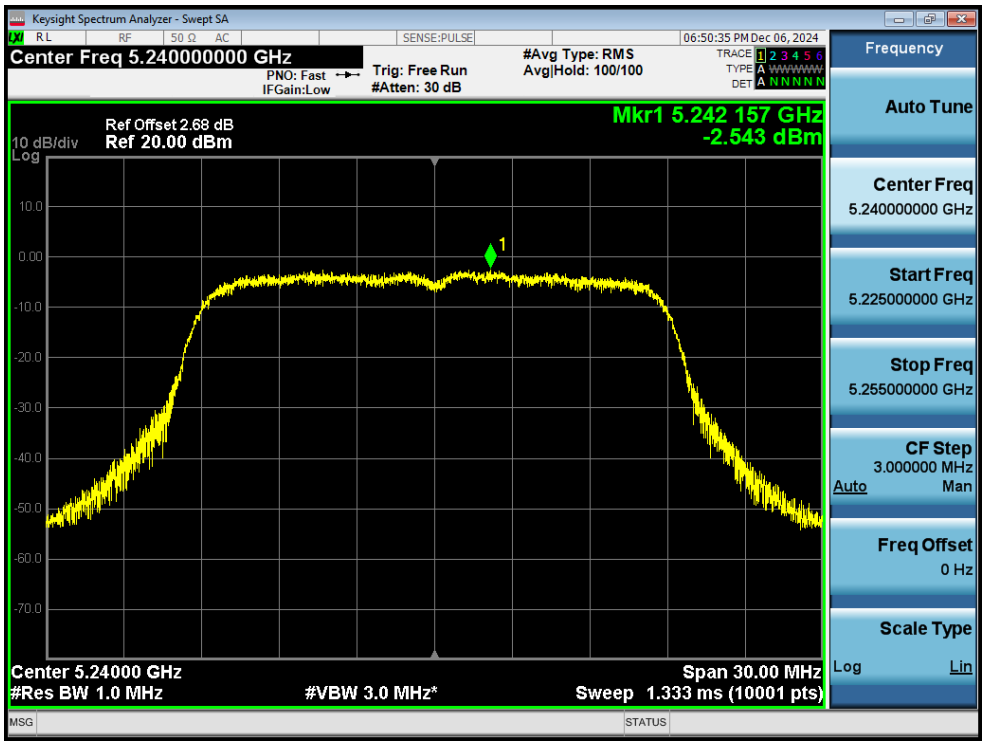
PSD NVNT a 5240MHz Ant1



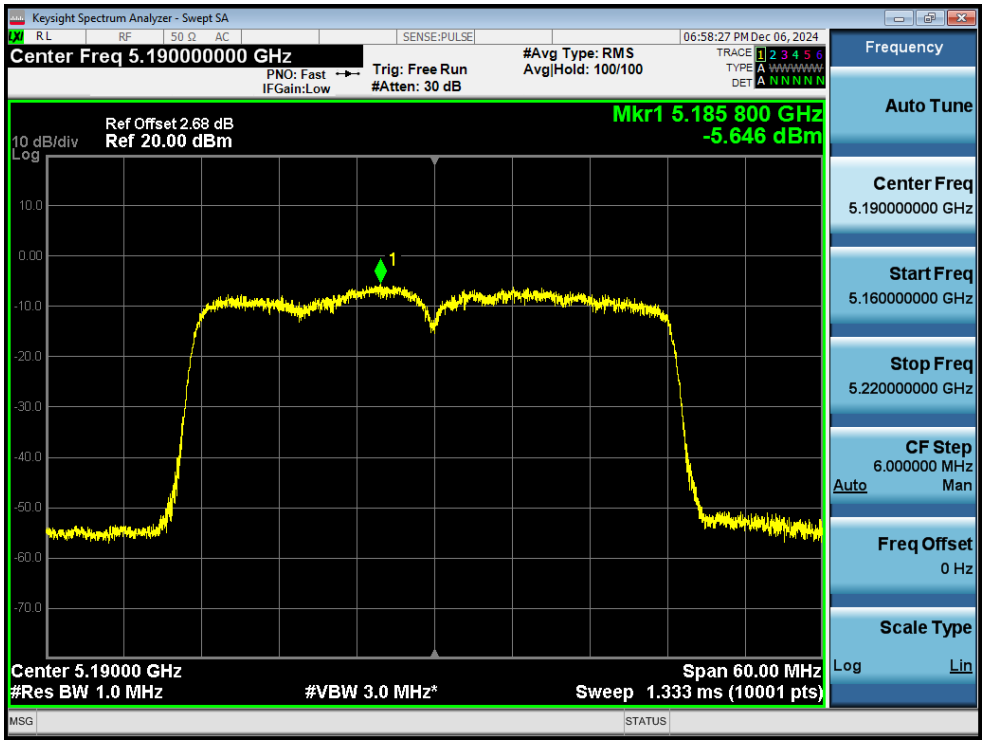
PSD NVNT n20 5180MHz Ant1



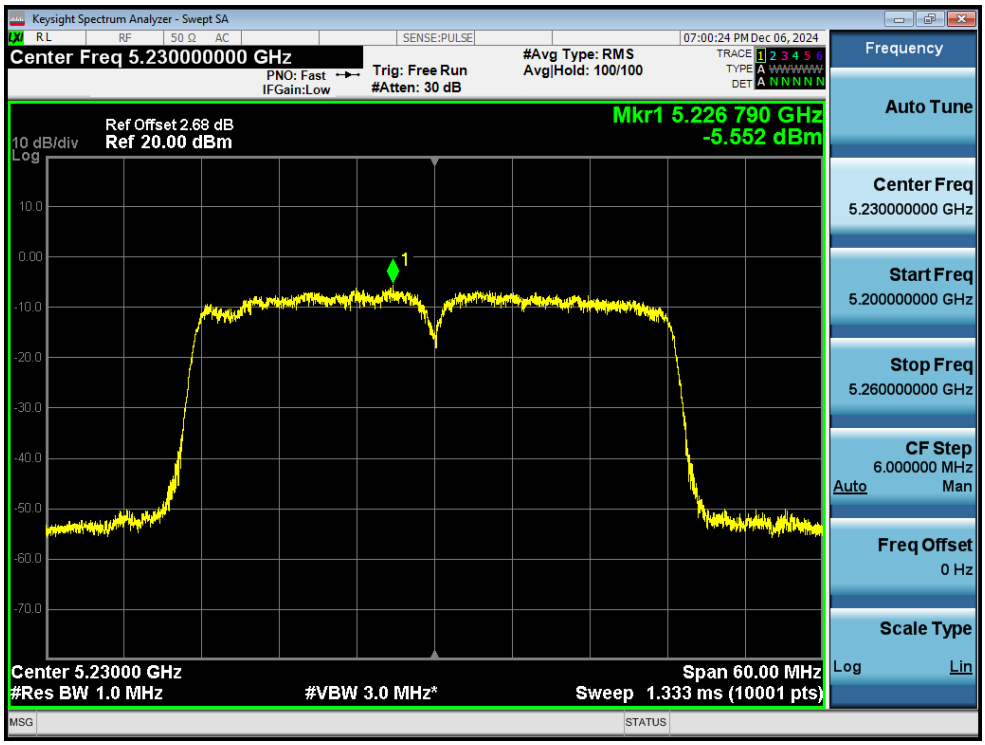
PSD NVNT n20 5200MHz Ant1



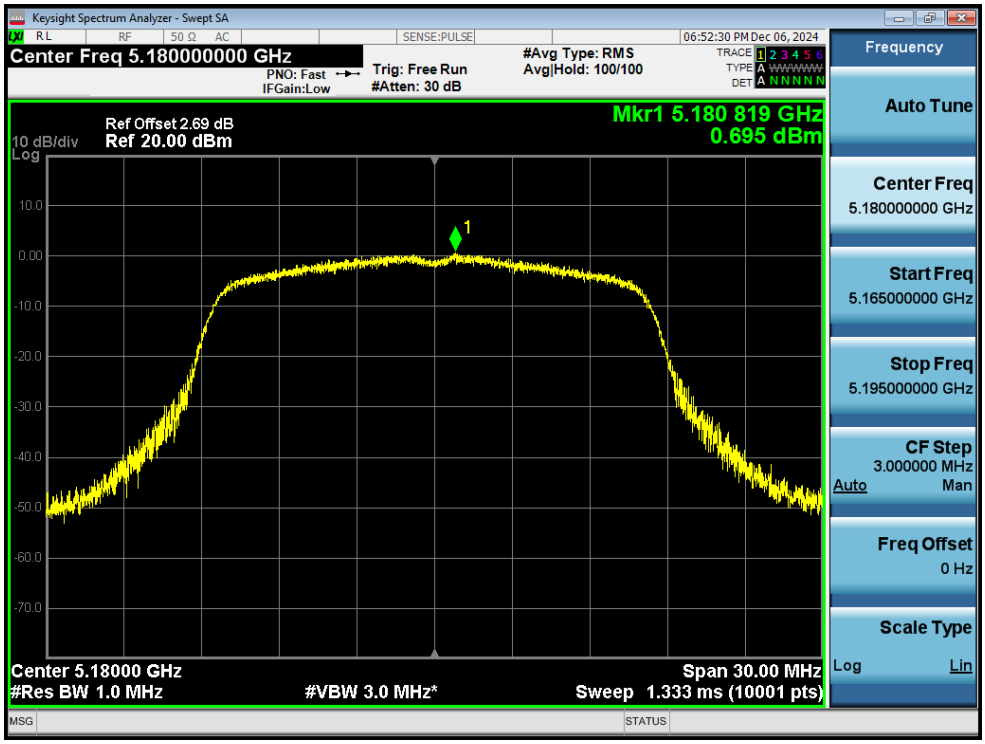
PSD NVNT n20 5240MHz Ant1



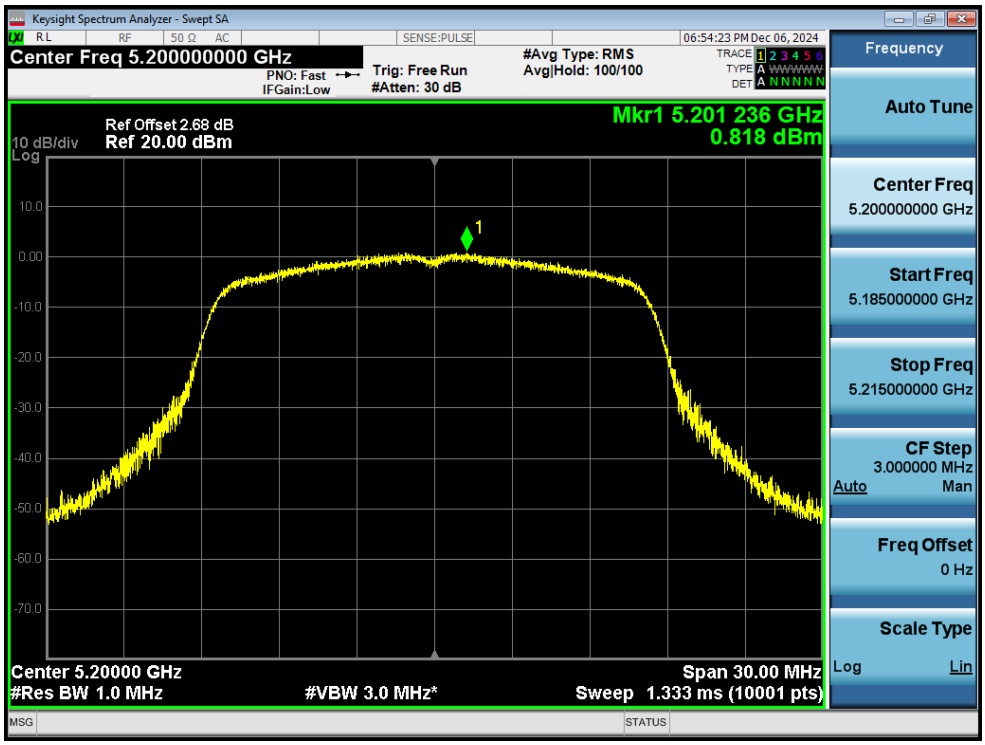
PSD NVNT n40 5190MHz Ant1



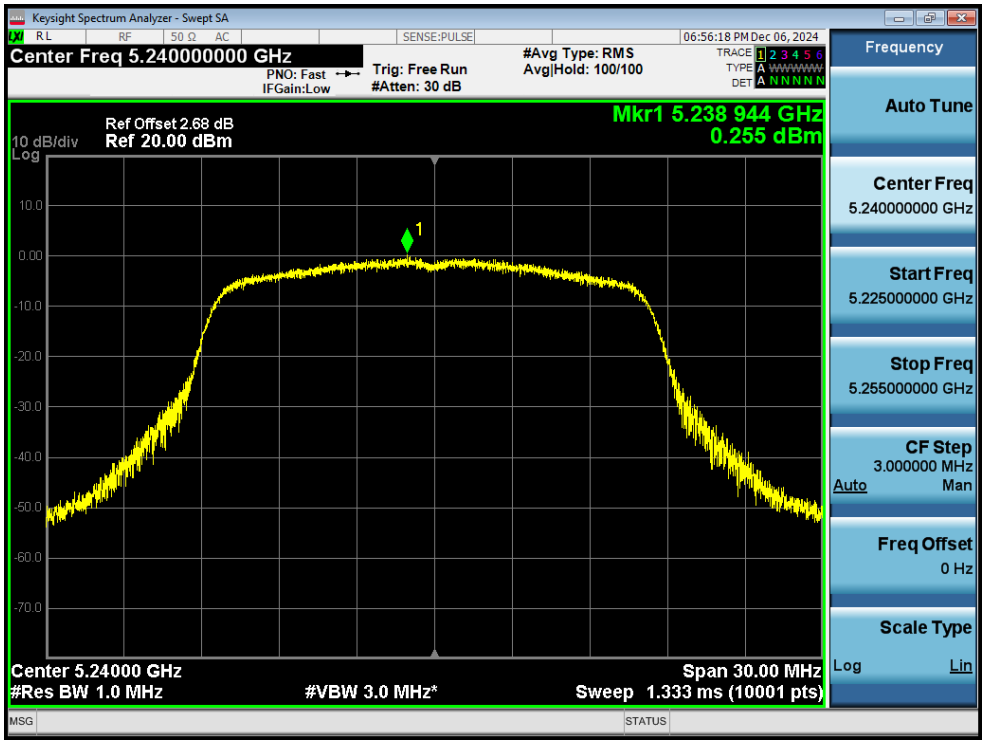
PSD NVNT n40 5230MHz Ant1



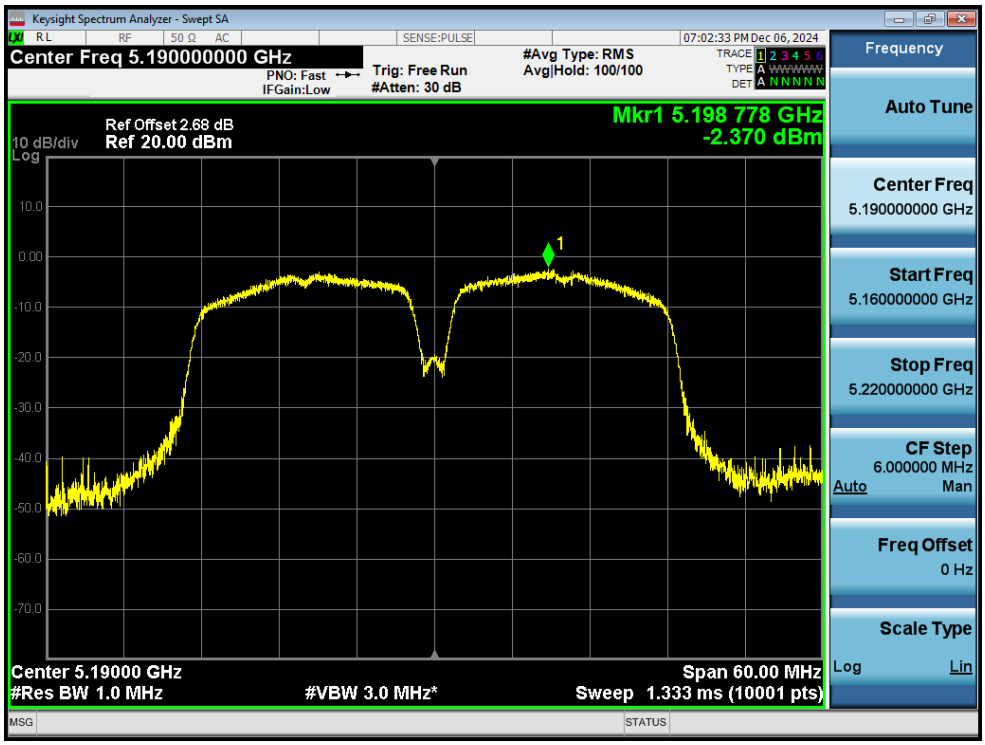
PSD NVNT ac20 5180MHz Ant1



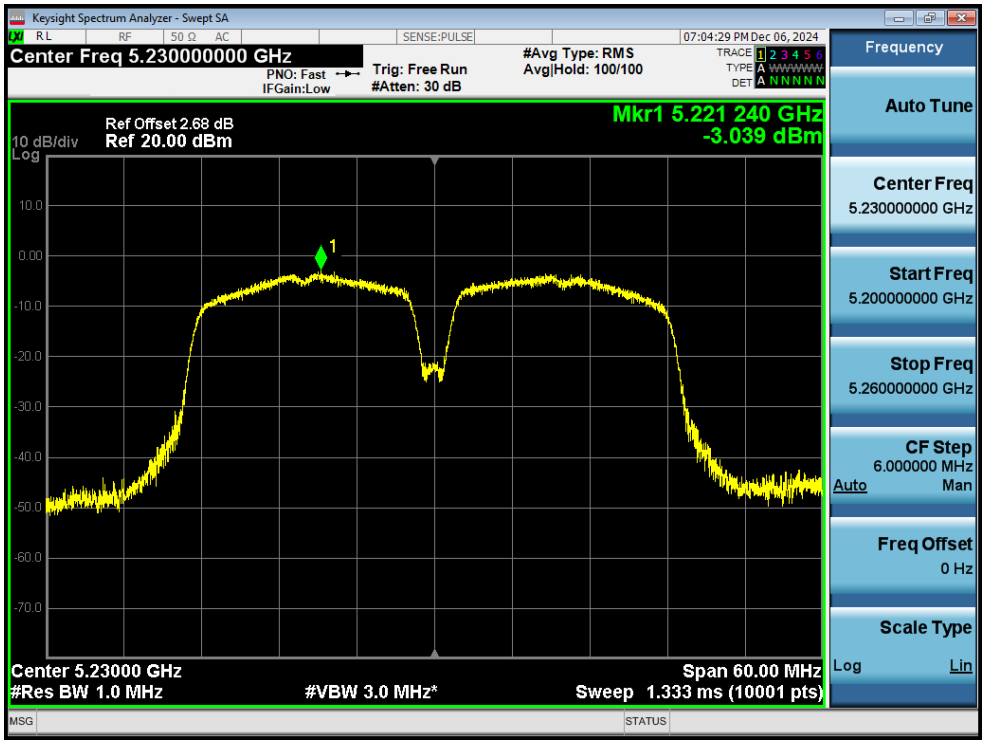
PSD NVNT ac20 5200MHz Ant1



PSD NVNT ac20 5240MHz Ant1



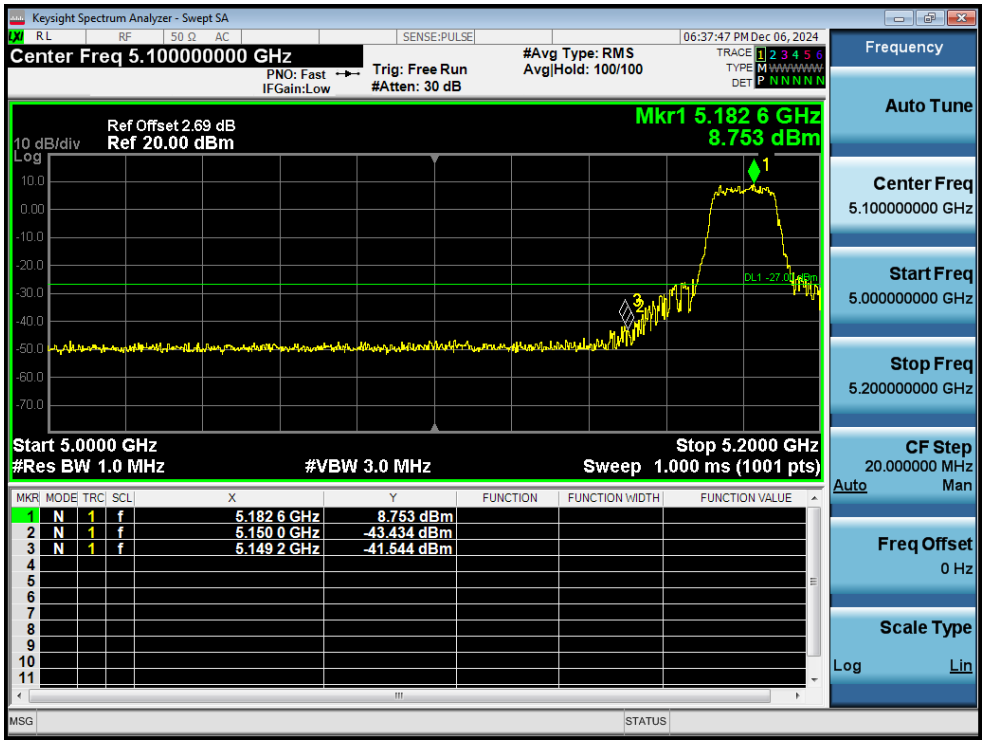
PSD NVNT ac40 5190MHz Ant1



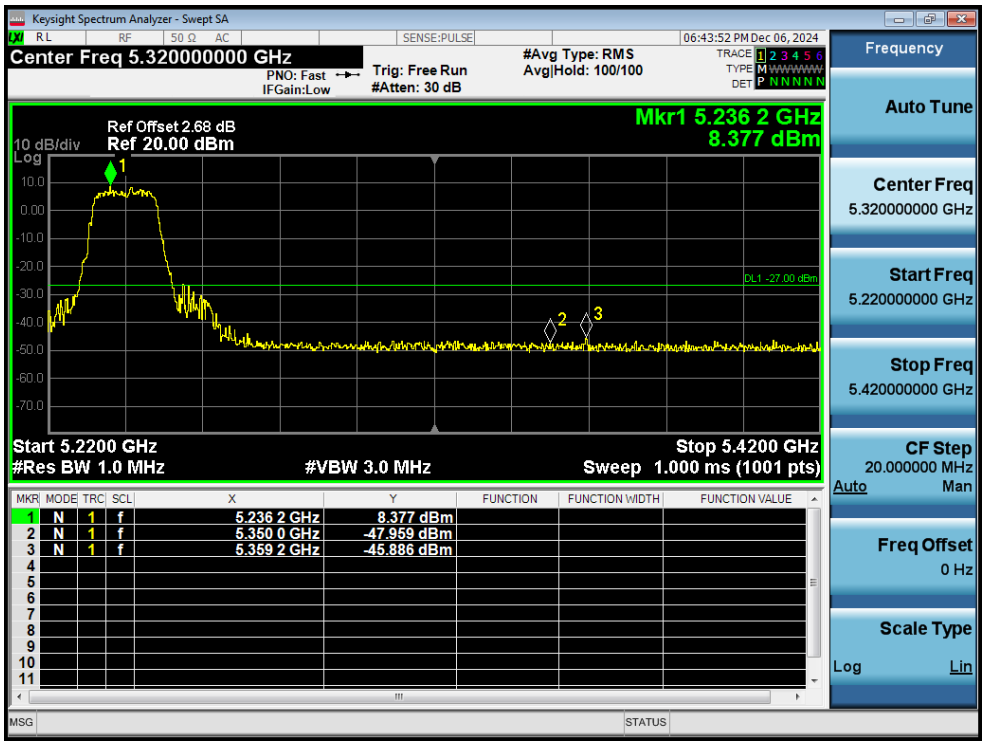
PSD NVNT ac40 5230MHz Ant1

6. Band Edge

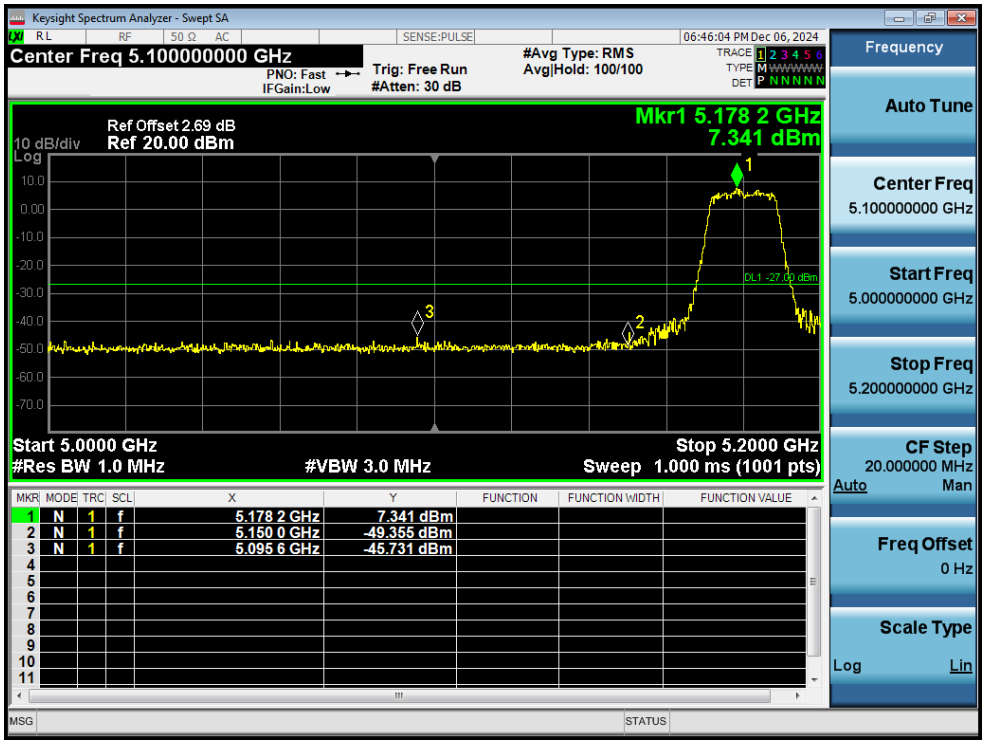
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-41.54	-27	Pass
NVNT	a	5240	Ant1	-45.88	-27	Pass
NVNT	n20	5180	Ant1	-45.73	-27	Pass
NVNT	n20	5240	Ant1	-46.16	-27	Pass
NVNT	n40	5190	Ant1	-41.87	-27	Pass
NVNT	n40	5230	Ant1	-47.1	-27	Pass
NVNT	ac20	5180	Ant1	-46.69	-27	Pass
NVNT	ac20	5240	Ant1	-45.75	-27	Pass
NVNT	ac40	5190	Ant1	-36.64	-27	Pass
NVNT	ac40	5230	Ant1	-46.67	-27	Pass



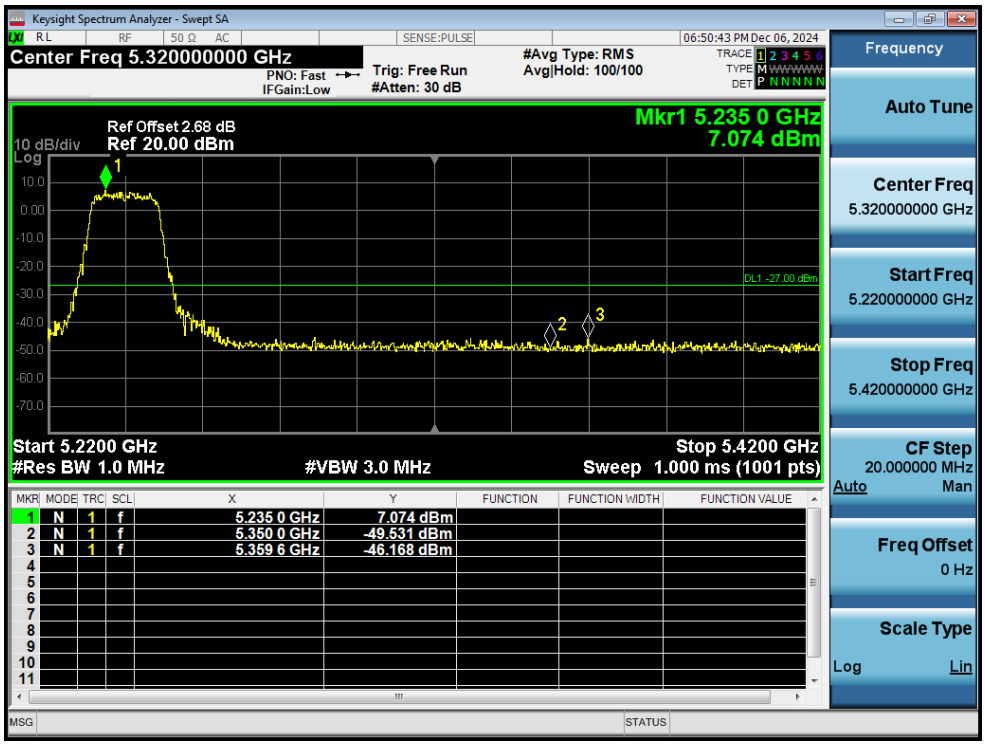
Band Edge NVNT a 5180MHz Low Ant1



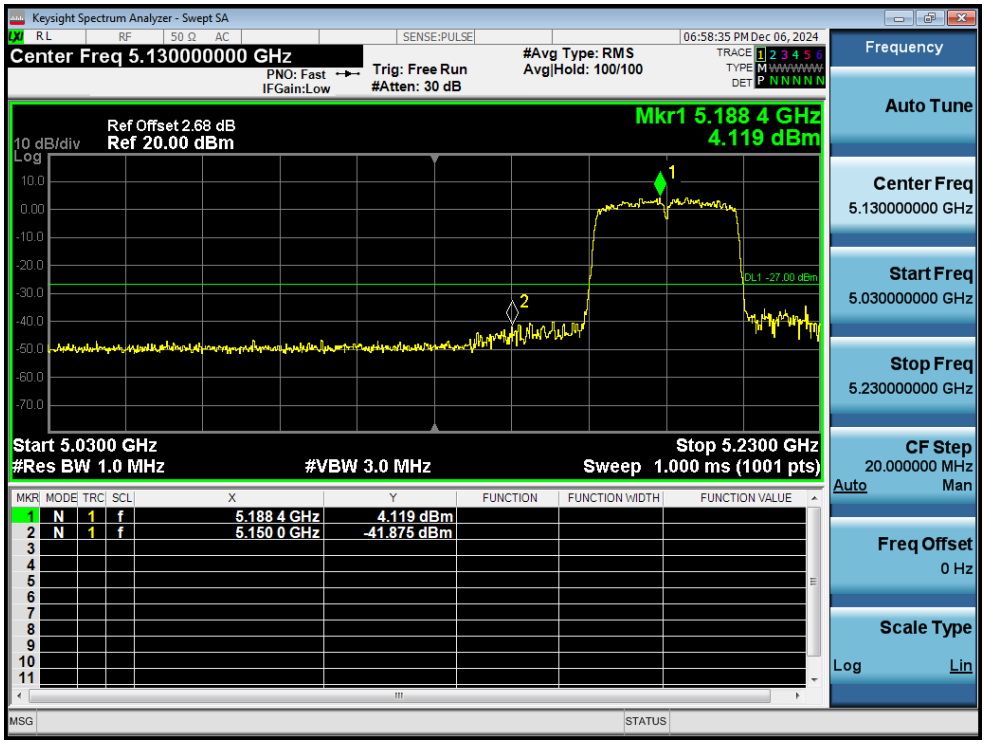
Band Edge NVNT a 5240MHz High Ant1



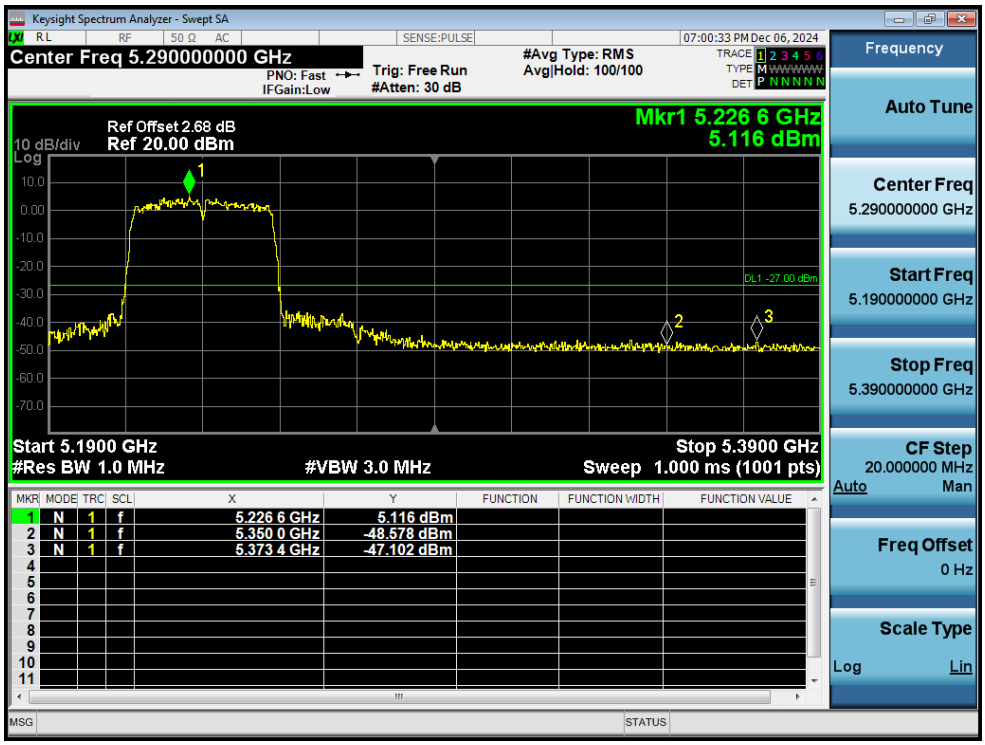
Band Edge NVNT n20 5180MHz Low Ant1



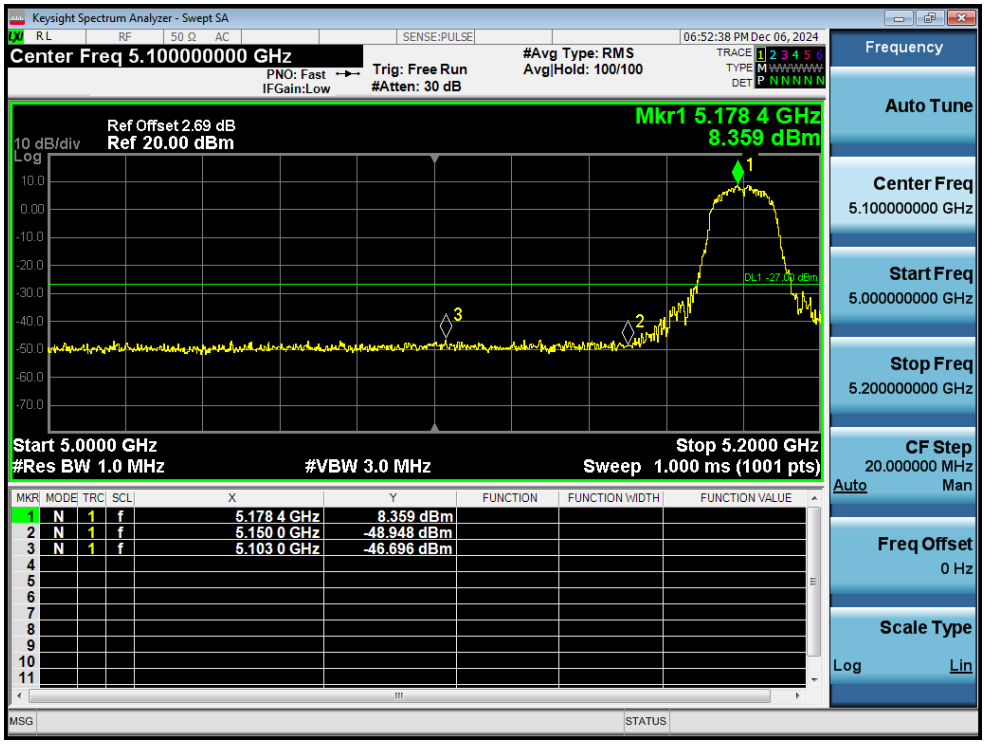
Band Edge NVNT n20 5240MHz High Ant1



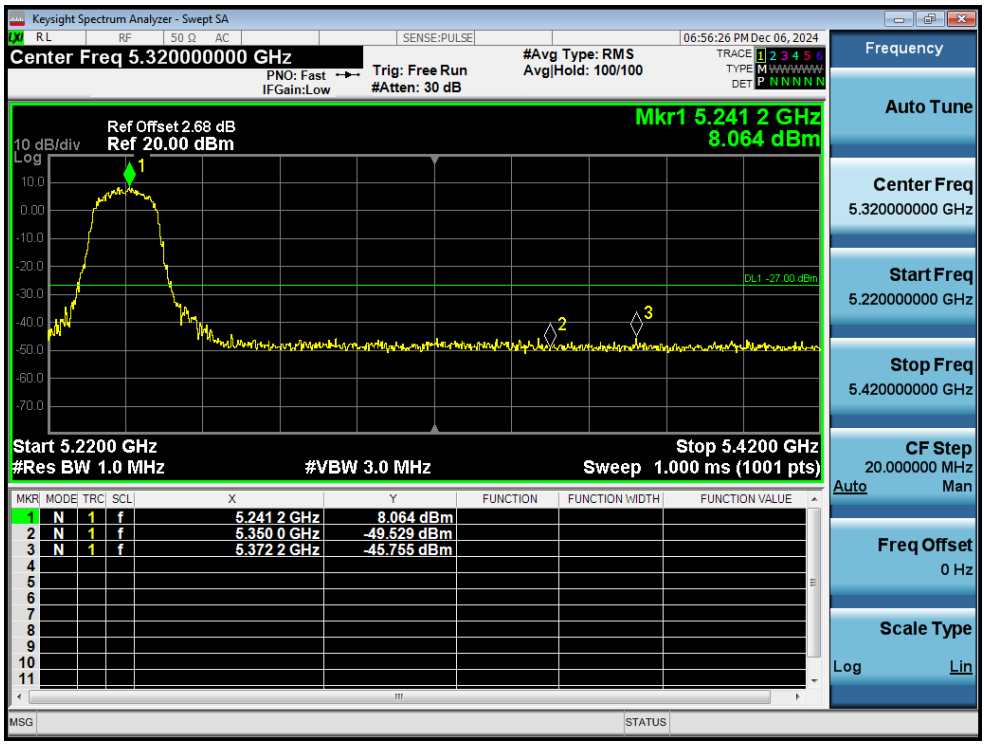
Band Edge NVNT n40 5190MHz Low Ant1



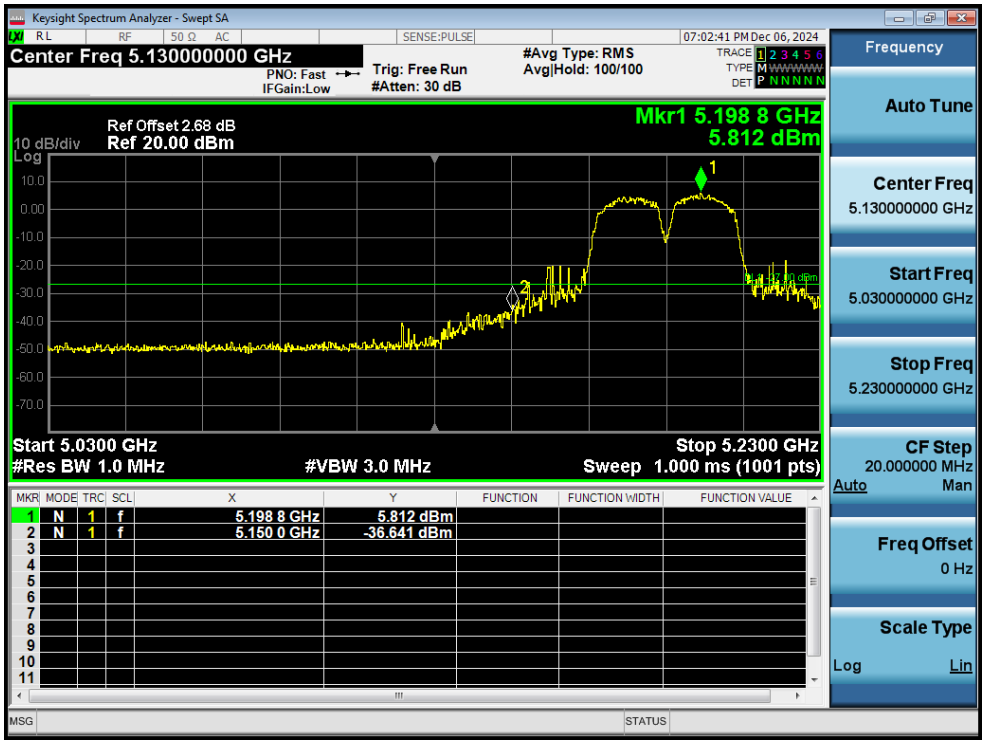
Band Edge NVNT n40 5230MHz High Ant1



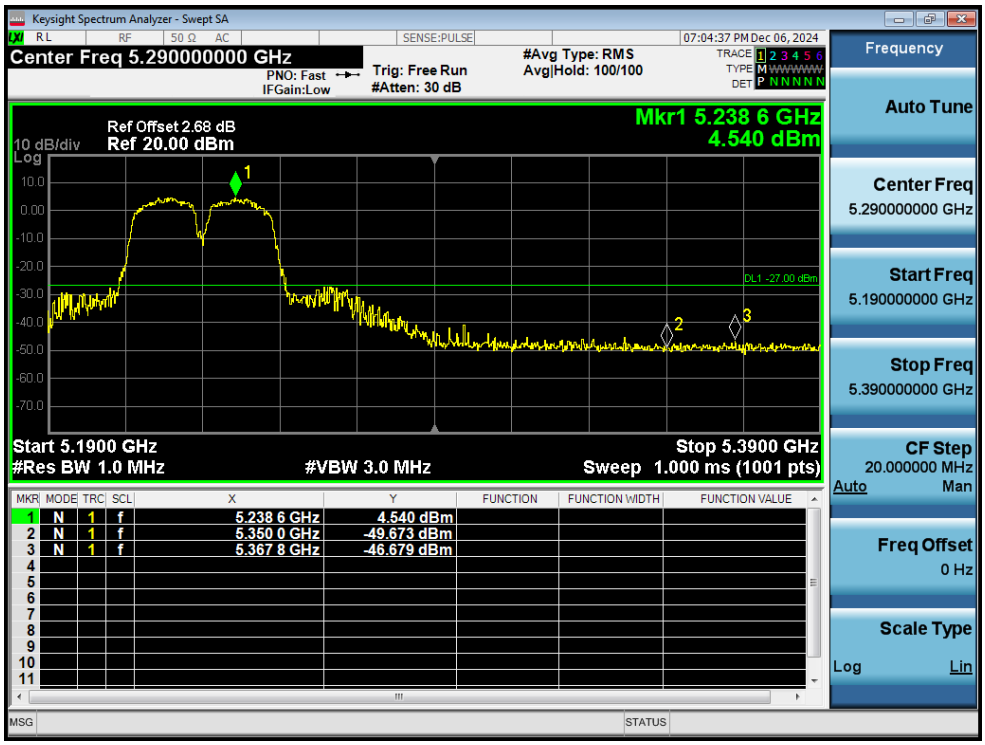
Band Edge NVNT ac20 5180MHz Low Ant1



Band Edge NVNT ac20 5240MHz High Ant1



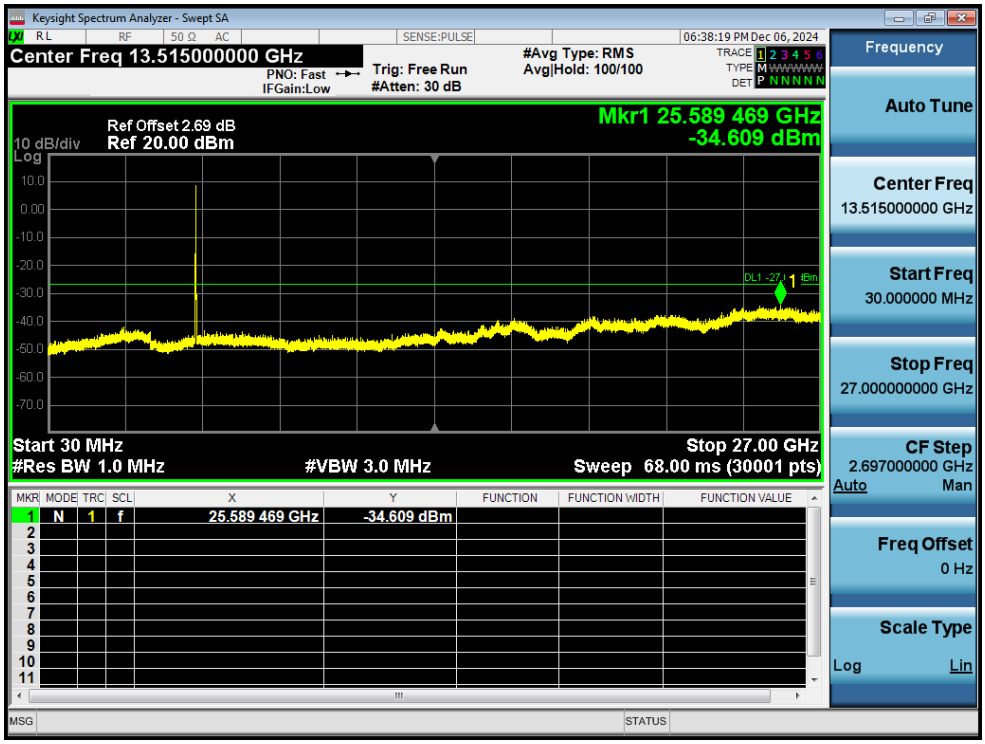
Band Edge NVNT ac40 5190MHz Low Ant1



Band Edge NVNT ac40 5230MHz High Ant1

7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-34.6	-27	Pass
NVNT	a	5200	Ant1	-34.6	-27	Pass
NVNT	a	5240	Ant1	-34.54	-27	Pass
NVNT	n20	5180	Ant1	-34.55	-27	Pass
NVNT	n20	5200	Ant1	-34.42	-27	Pass
NVNT	n20	5240	Ant1	-34.12	-27	Pass
NVNT	n40	5190	Ant1	-34.07	-27	Pass
NVNT	n40	5230	Ant1	-34.67	-27	Pass
NVNT	ac20	5180	Ant1	-34.54	-27	Pass
NVNT	ac20	5200	Ant1	-33.86	-27	Pass
NVNT	ac20	5240	Ant1	-34.25	-27	Pass
NVNT	ac40	5190	Ant1	-34.03	-27	Pass
NVNT	ac40	5230	Ant1	-34.53	-27	Pass



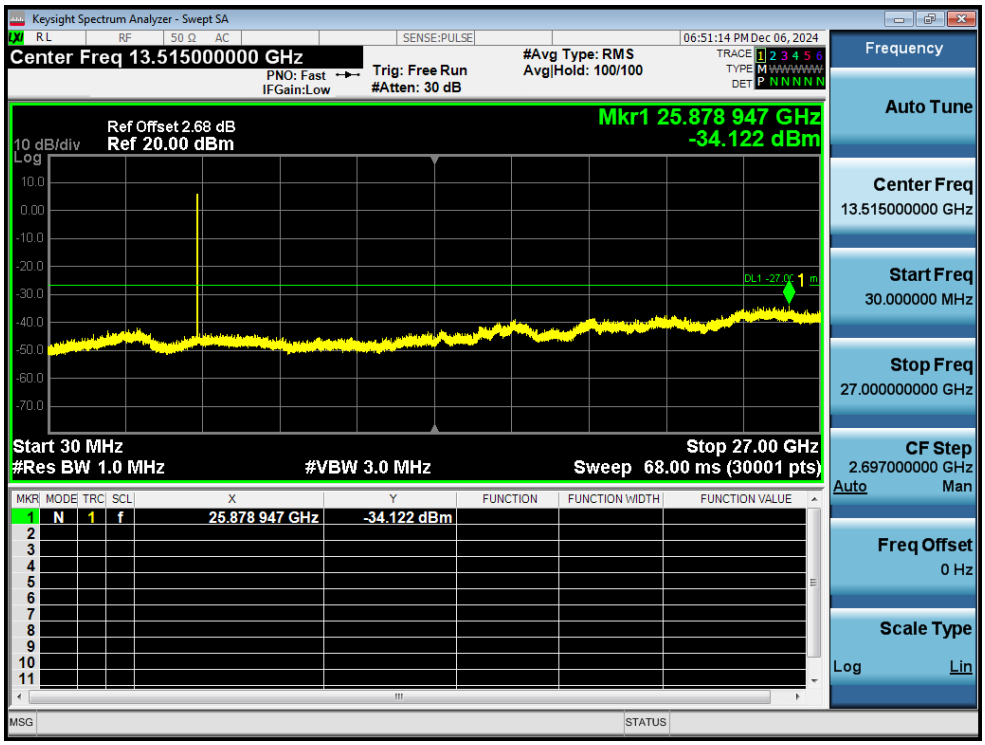
Tx. Spurious NVNT a 5180MHz Ant1 Emission

Tx. Spurious NVNT a 5200MHz Ant1 Emission

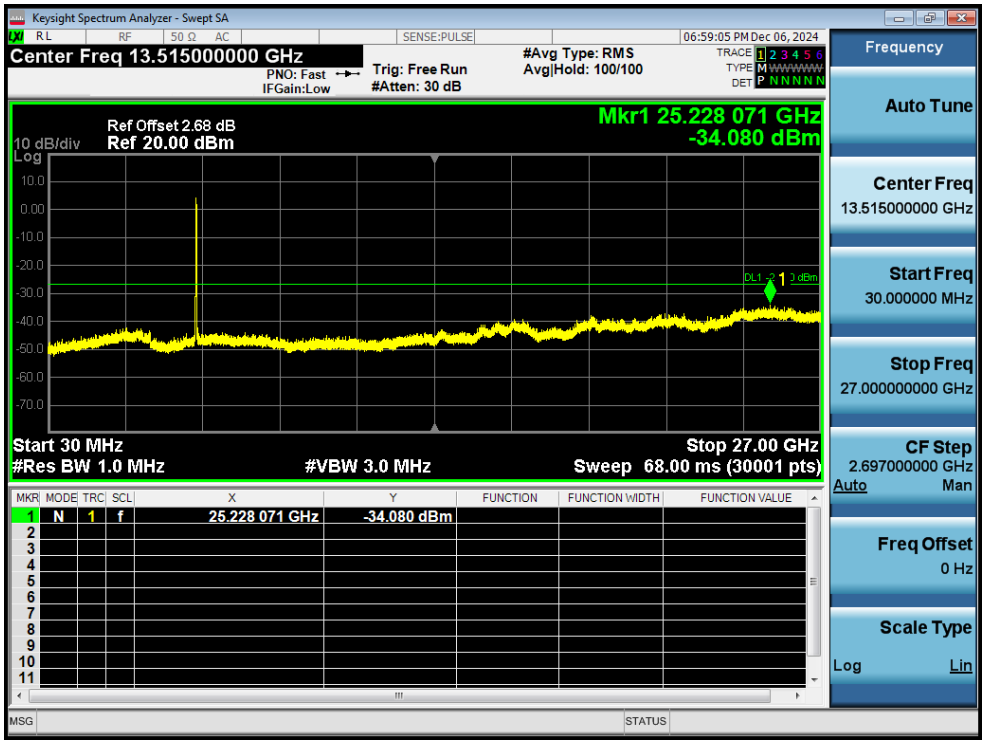
Tx. Spurious NVNT a 5240MHz Ant1 Emission

Tx. Spurious NVNT n20 5180MHz Ant1 Emission

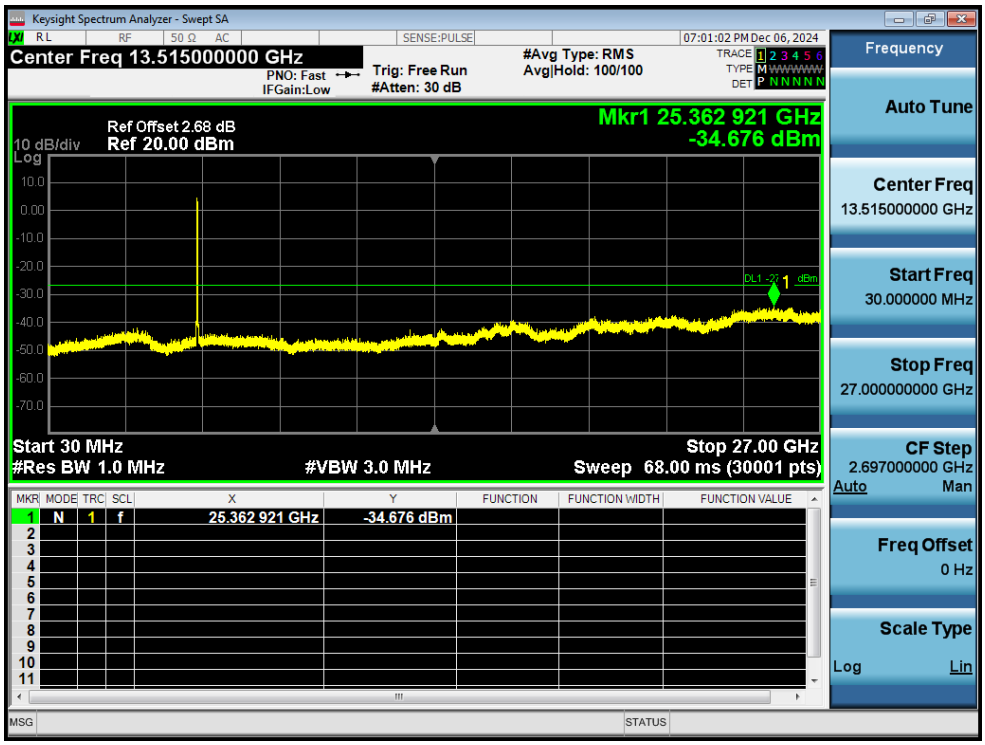
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



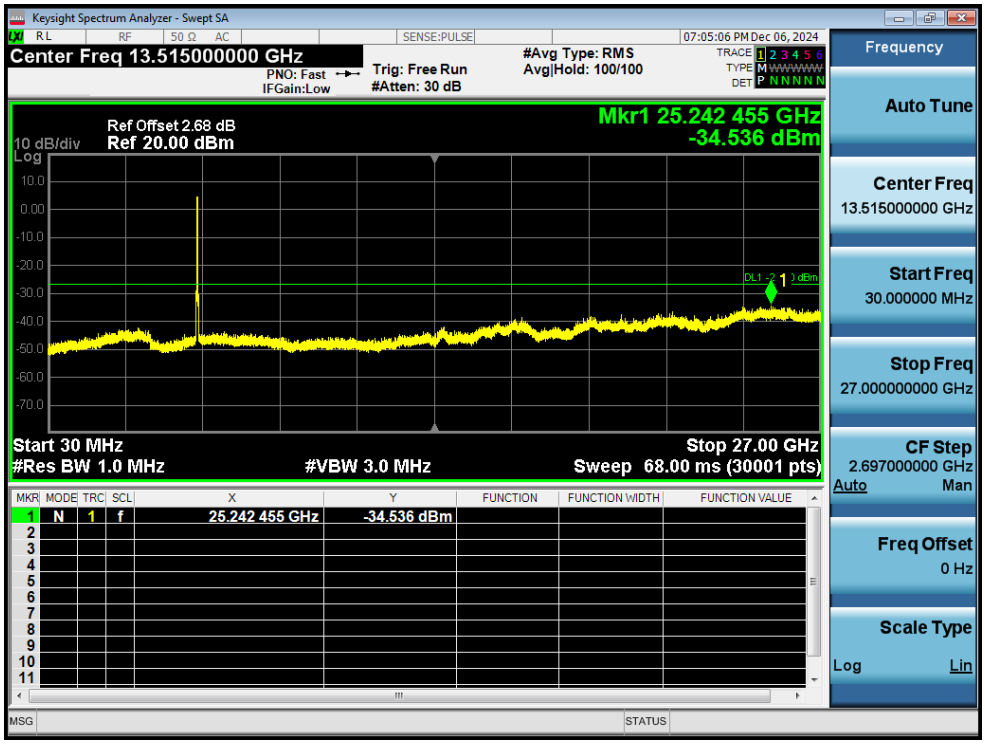
Tx. Spurious NVNT n40 5230MHz Ant1 Emission

Tx. Spurious NVNT ac20 5180MHz Ant1 Emission

Tx. Spurious NVNT ac20 5200MHz Ant1 Emission

Tx. Spurious NVNT ac20 5240MHz Ant1 Emission

Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission