

FCC Appendix RF Test Data for UNII-2A

FCC ID : 2BG9Y-MODELXXXPXXX

Company : Hyatta Digital Technology Co., Ltd.

EUT : Portable Data Terminal

Model Number : Model 7

Report No. : CTA26052902020

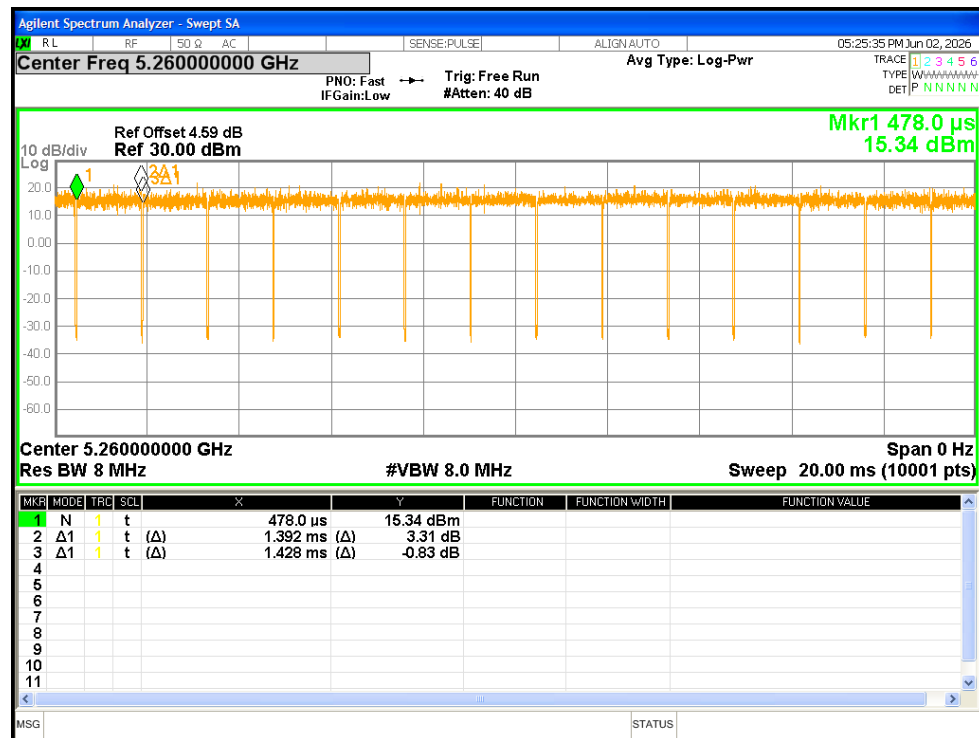
Reviewed By : Eric Wang

Duty Cycle

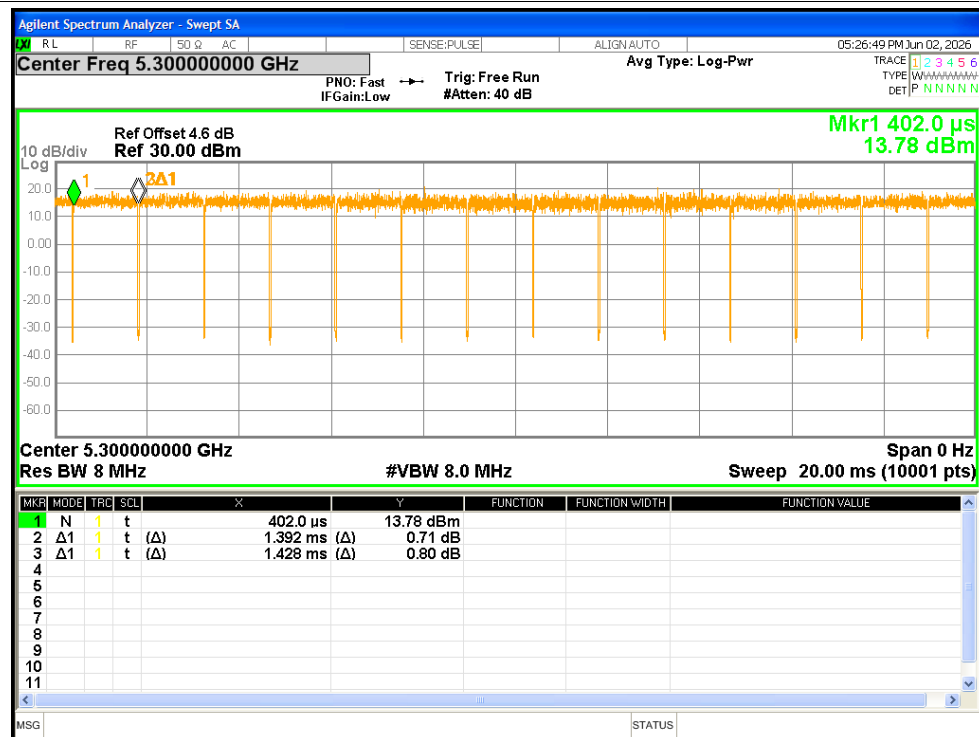
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Max Variation (%)
NVNT	a	5260	1.392	1.428	97.48	0.11	0.72	0.22
NVNT	a	5300	1.392	1.428	97.48	0.11	0.72	0.15
NVNT	a	5320	1.394	1.428	97.62	0.1	0.72	0.19
NVNT	n20	5260	1.299	1.335	97.3	0.12	0.77	0.17
NVNT	n20	5300	1.302	1.338	97.31	0.12	0.77	0.20
NVNT	n20	5320	1.302	1.338	97.31	0.12	0.77	0.20
NVNT	n40	5270	0.65	0.684	95.03	0.22	1.54	0.17
NVNT	n40	5310	0.65	0.682	95.31	0.21	1.54	0.16
NVNT	ac20	5260	1.314	1.35	97.33	0.12	0.76	0.14
NVNT	ac20	5300	1.311	1.347	97.33	0.12	0.76	0.19
NVNT	ac20	5320	1.314	1.35	97.33	0.12	0.76	0.18
NVNT	ac40	5270	0.652	0.686	95.04	0.22	1.53	0.25
NVNT	ac40	5310	0.652	0.688	94.77	0.23	1.53	0.14
NVNT	ac80	5290	0.324	0.359	90.25	0.45	3.09	0.16

Test Graphs

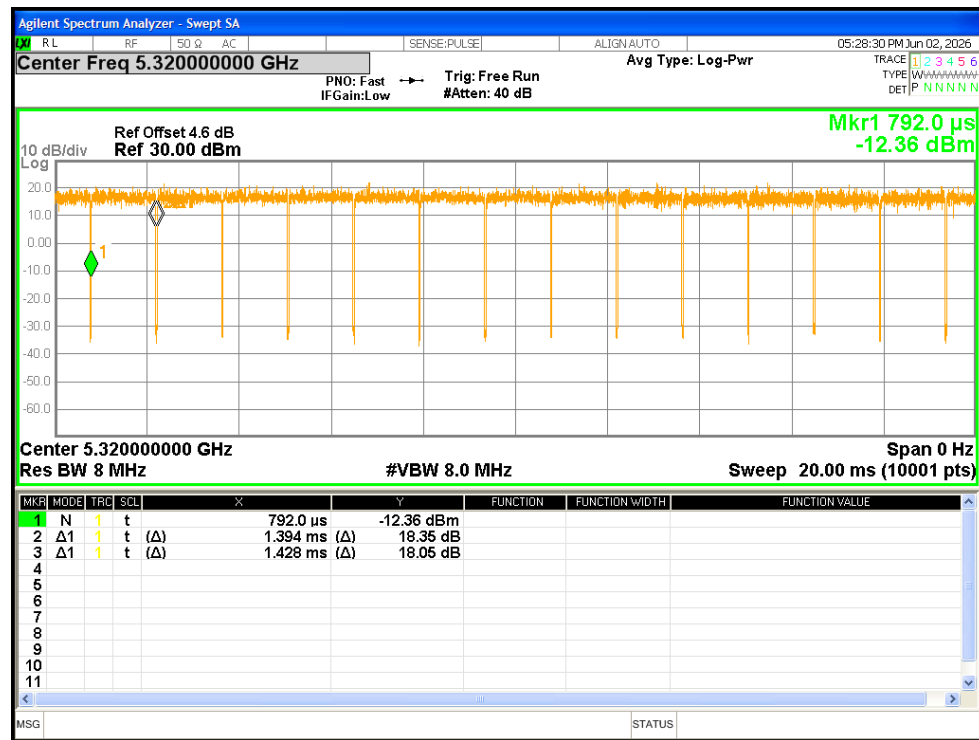
Duty Cycle NVNT a 5260MHz



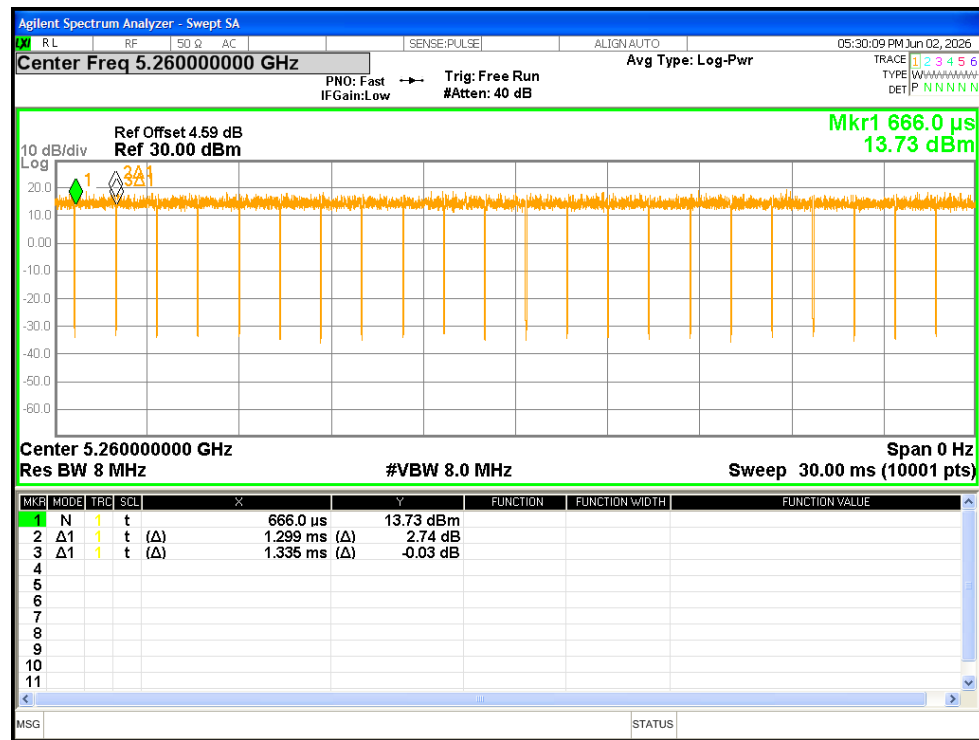
Duty Cycle NVNT a 5300MHz



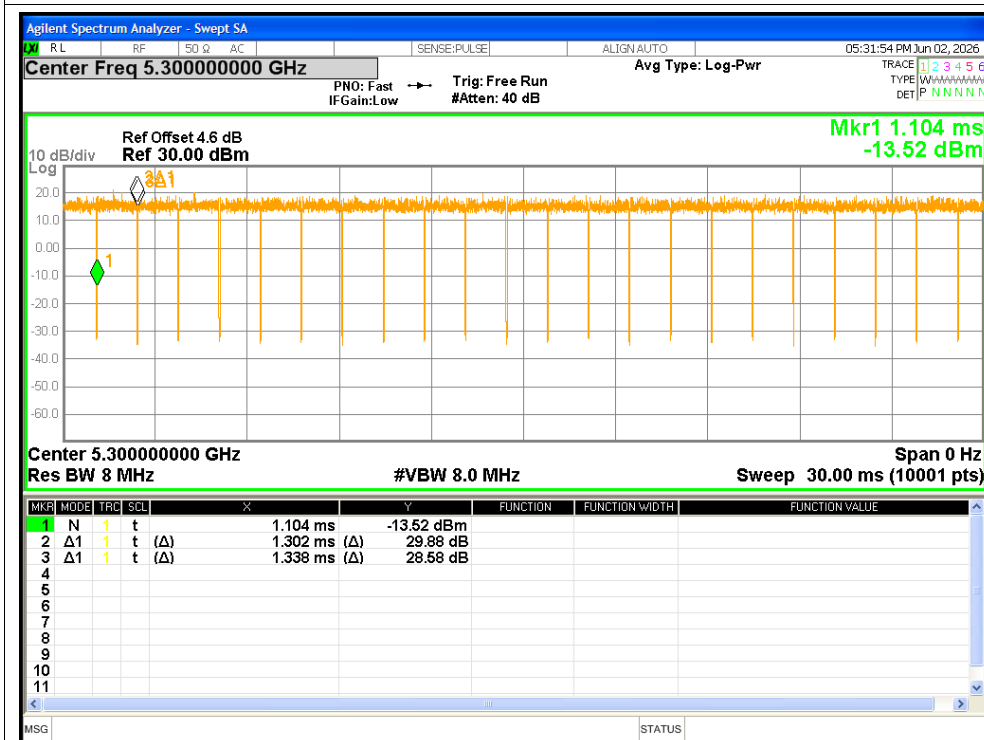
Duty Cycle NVNT a 5320MHz



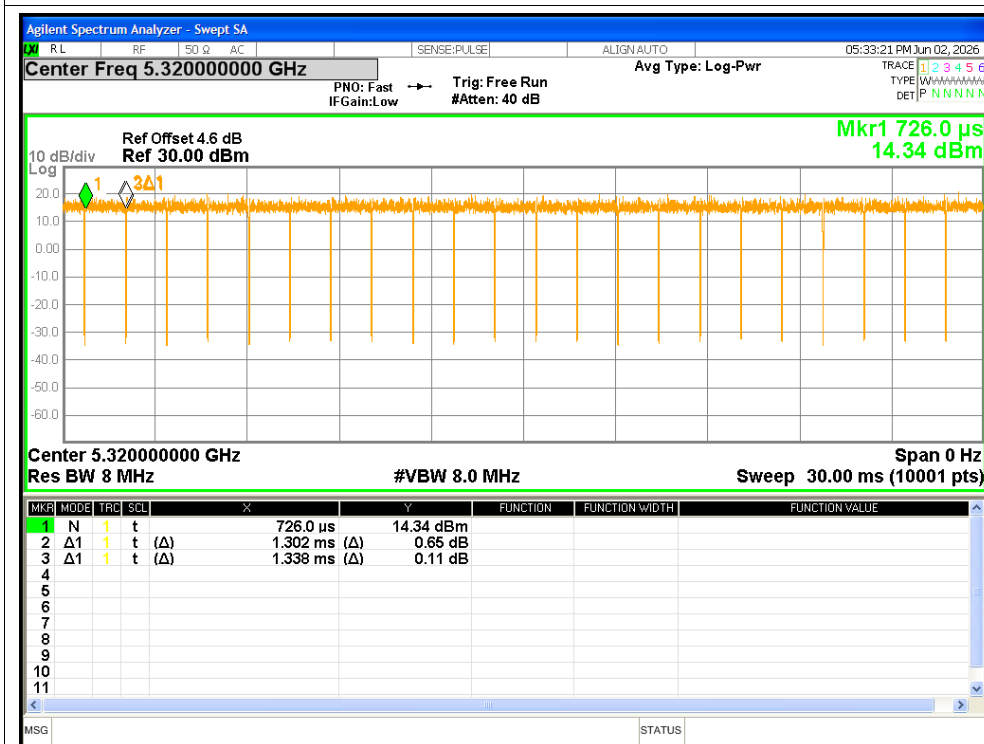
Duty Cycle NVNT n20 5260MHz



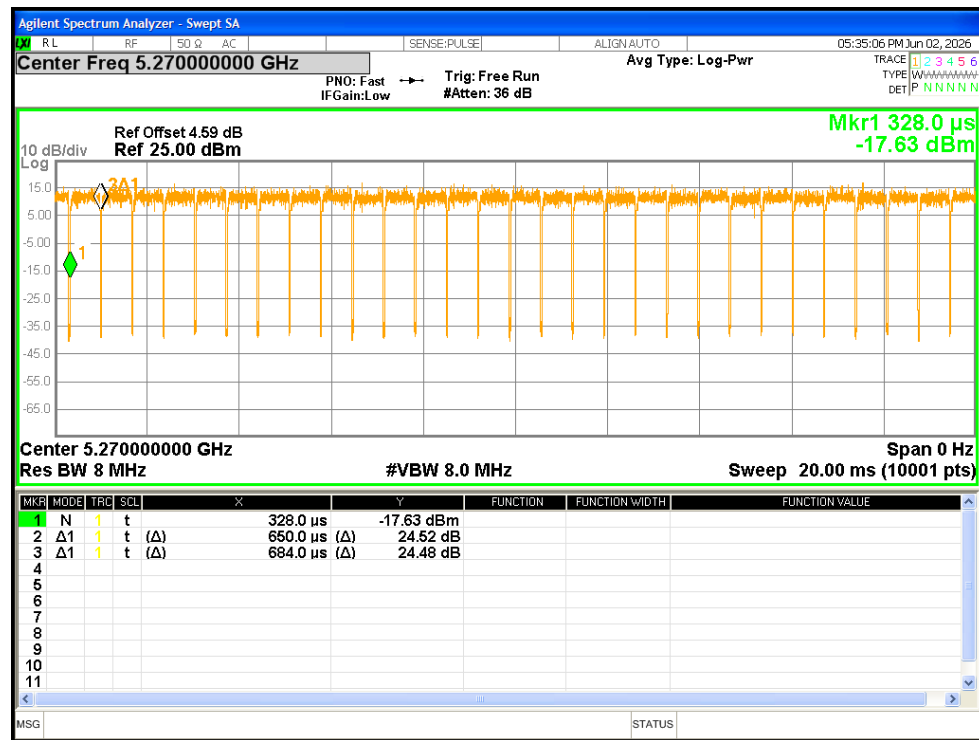
Duty Cycle NVNT n20 5300MHz



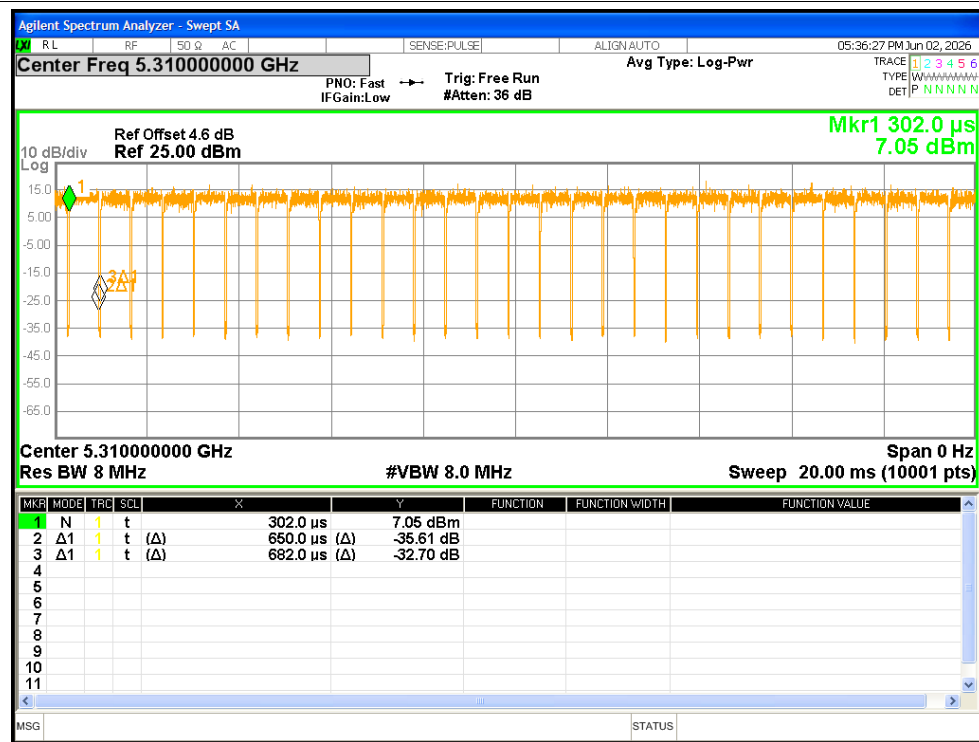
Duty Cycle NVNT n20 5320MHz



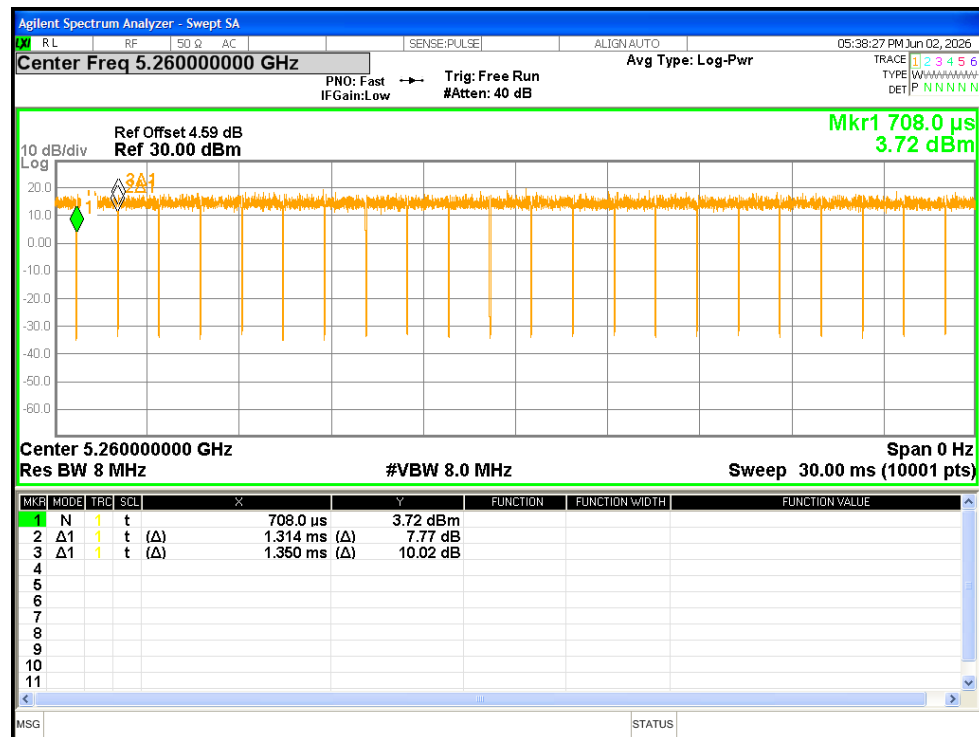
Duty Cycle NVNT n40 5270MHz



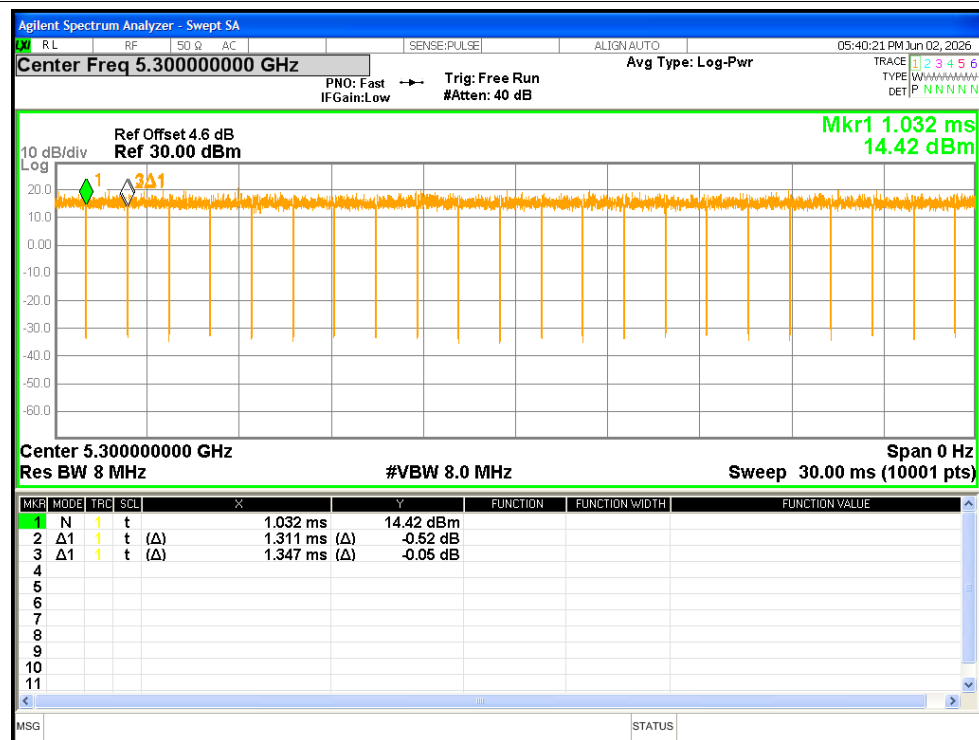
Duty Cycle NVNT n40 5310MHz



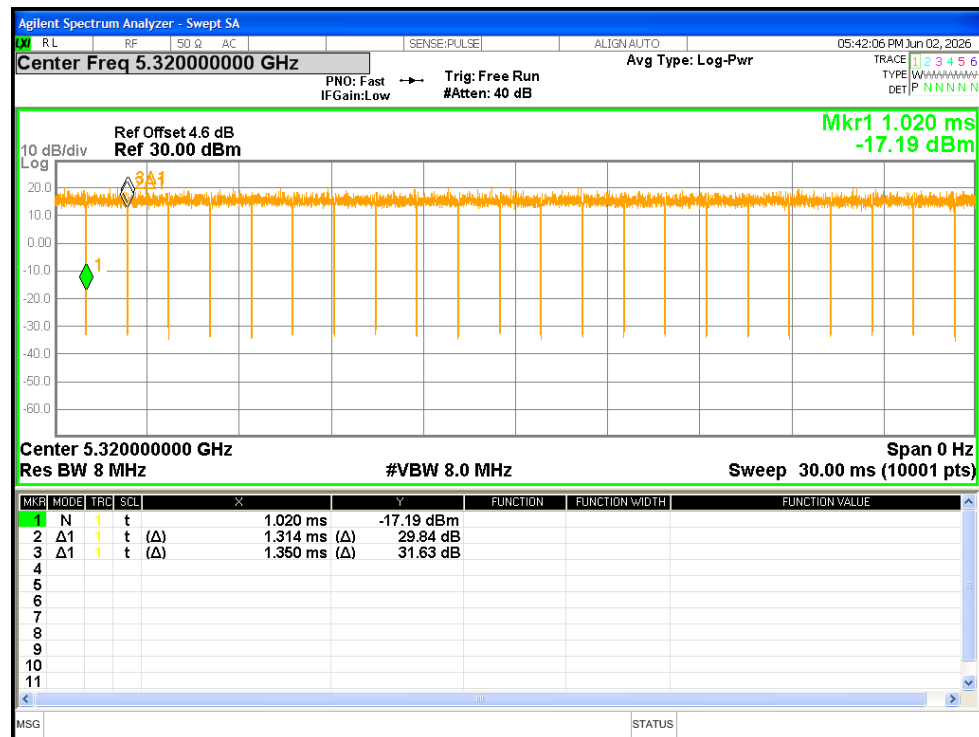
Duty Cycle NVNT ac20 5260MHz



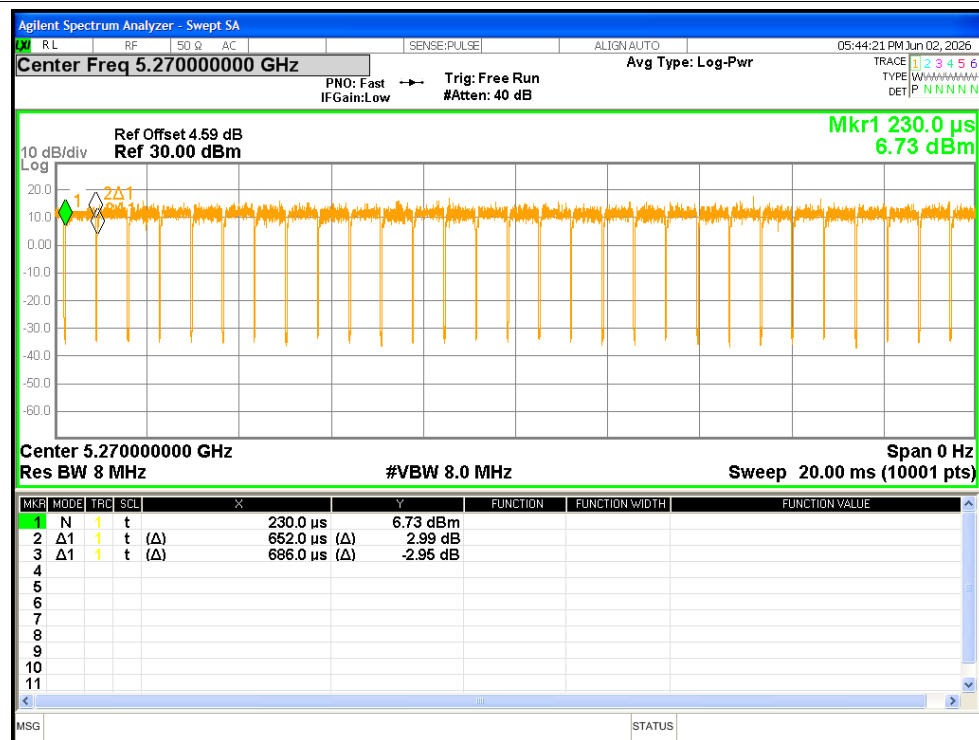
Duty Cycle NVNT ac20 5300MHz



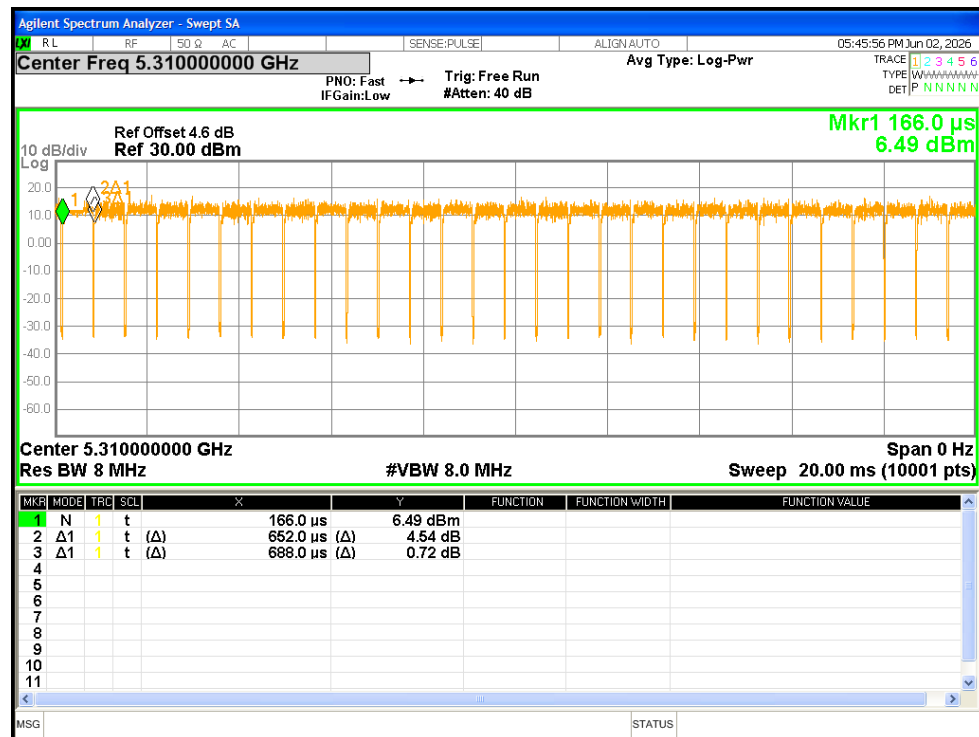
Duty Cycle NVNT ac20 5320MHz



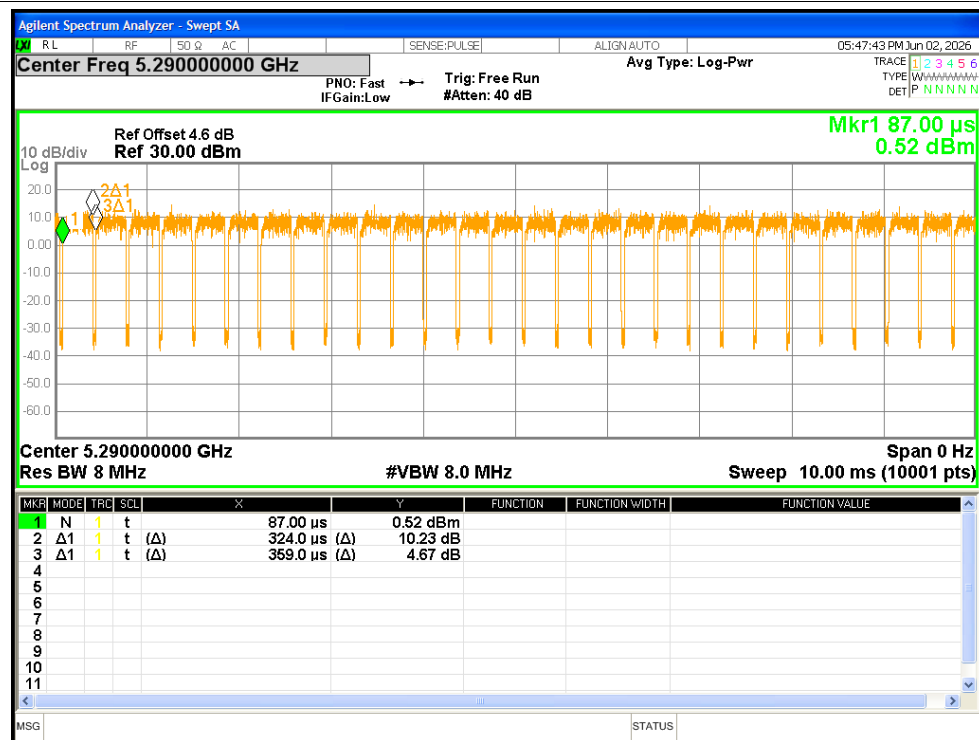
Duty Cycle NVNT ac40 5270MHz



Duty Cycle NVNT ac40 5310MHz



Duty Cycle NVNT ac80 5290MHz



Maximum Output Power

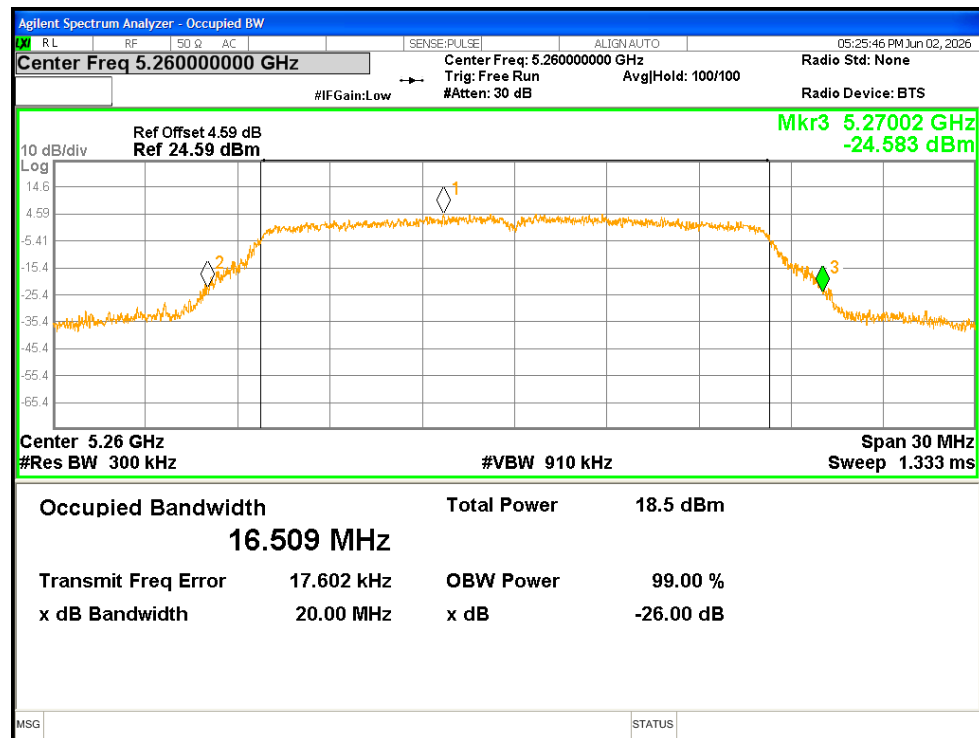
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	12.7	0.11	12.81	<=24	Pass
NVNT	a	5300	12.11	0.11	12.22	<=24	Pass
NVNT	a	5320	13.56	0.1	13.66	<=24	Pass
NVNT	n20	5260	11.32	0.12	11.44	<=24	Pass
NVNT	n20	5300	12.01	0.12	12.13	<=24	Pass
NVNT	n20	5320	12.15	0.12	12.27	<=24	Pass
NVNT	n40	5270	11.44	0.22	11.66	<=24	Pass
NVNT	n40	5310	11.92	0.21	12.13	<=24	Pass
NVNT	ac20	5260	11.31	0.12	11.43	<=24	Pass
NVNT	ac20	5300	11.99	0.12	12.11	<=24	Pass
NVNT	ac20	5320	12.24	0.12	12.36	<=24	Pass
NVNT	ac40	5270	11.39	0.22	11.61	<=24	Pass
NVNT	ac40	5310	11.88	0.23	12.11	<=24	Pass
NVNT	ac80	5290	11.9	0.45	12.35	<=24	Pass

-26dB Bandwidth

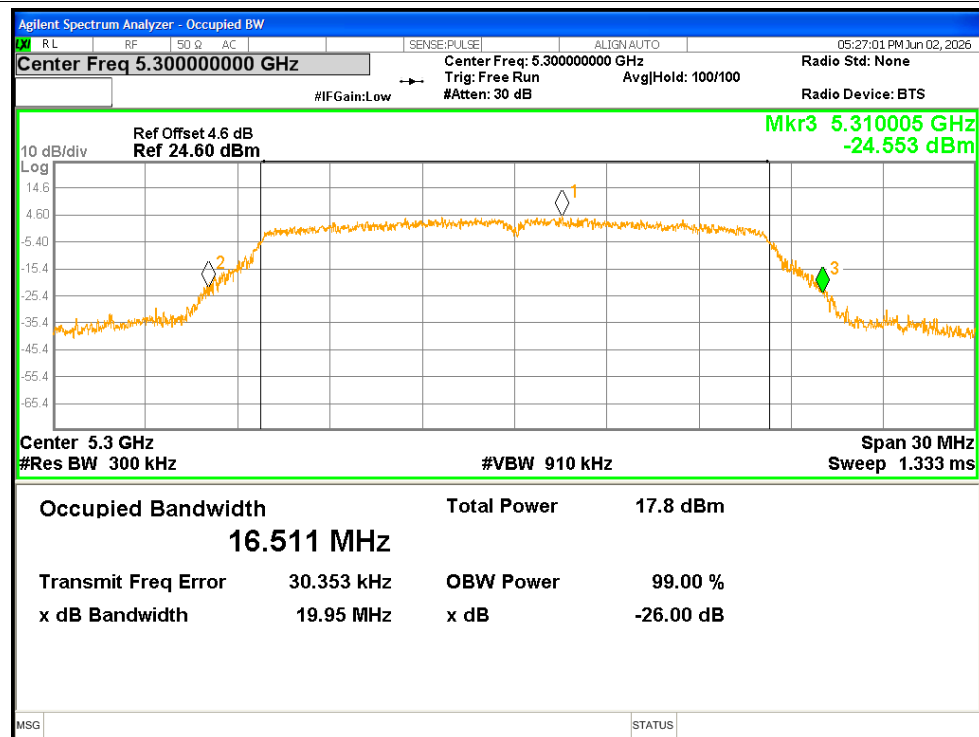
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	20	Pass
NVNT	a	5300	19.95	Pass
NVNT	a	5320	20.02	Pass
NVNT	n20	5260	20.22	Pass
NVNT	n20	5300	20.34	Pass
NVNT	n20	5320	20.38	Pass
NVNT	n40	5270	40.8	Pass
NVNT	n40	5310	40.92	Pass
NVNT	ac20	5260	20.26	Pass
NVNT	ac20	5300	20.39	Pass
NVNT	ac20	5320	20.19	Pass
NVNT	ac40	5270	40.76	Pass
NVNT	ac40	5310	40.72	Pass
NVNT	ac80	5290	81.51	Pass

Test Graphs

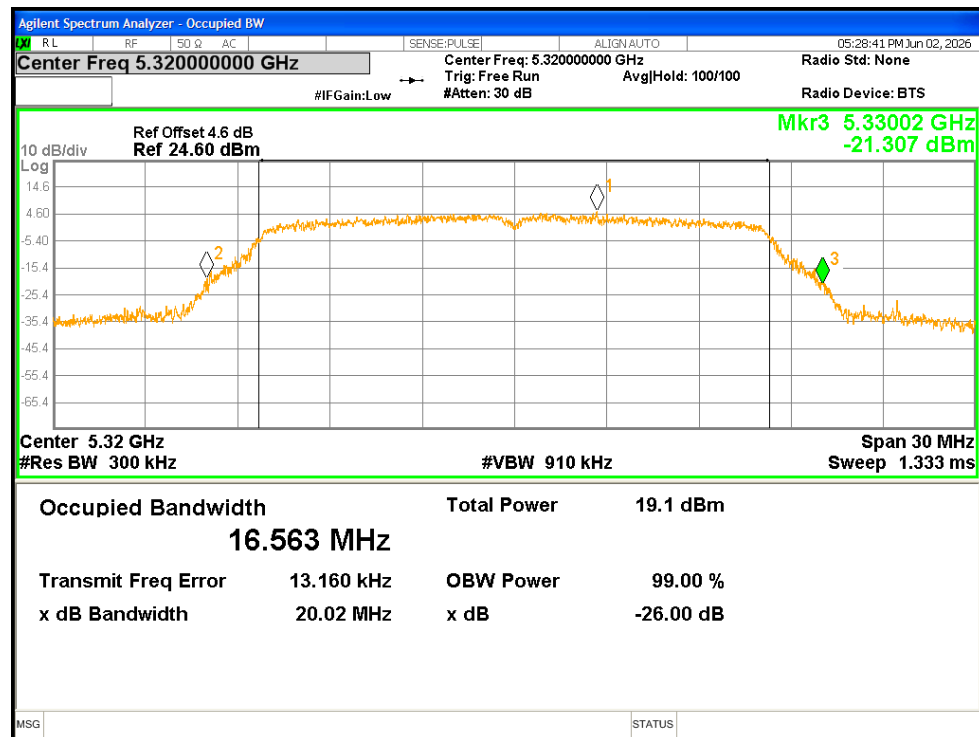
-26dB Bandwidth NVNT a 5260MHz



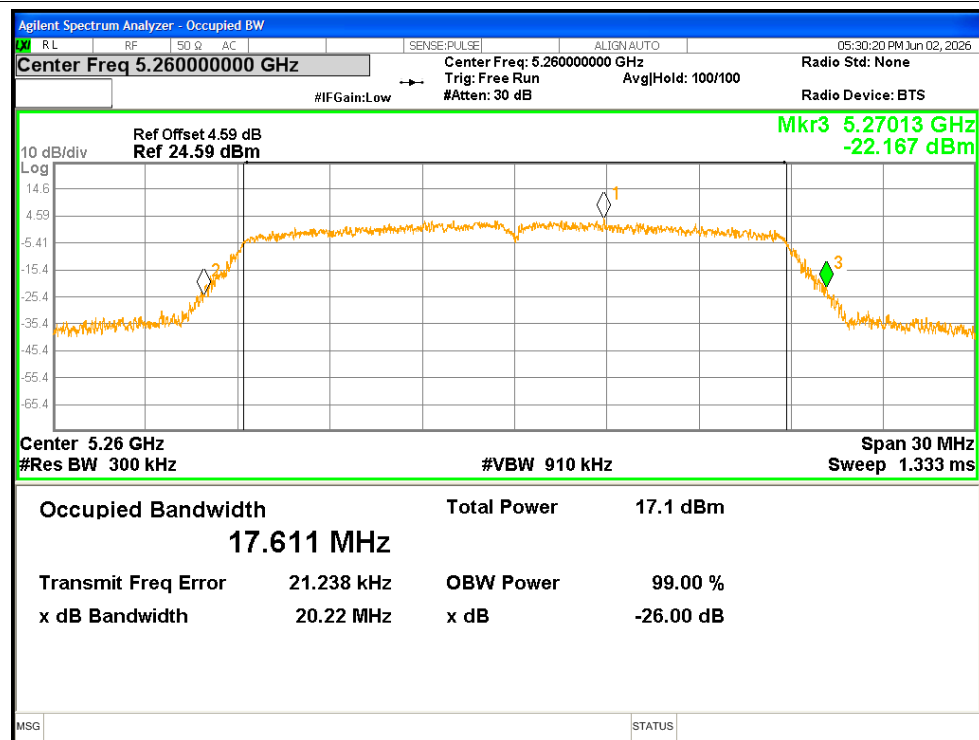
-26dB Bandwidth NVNT a 5300MHz



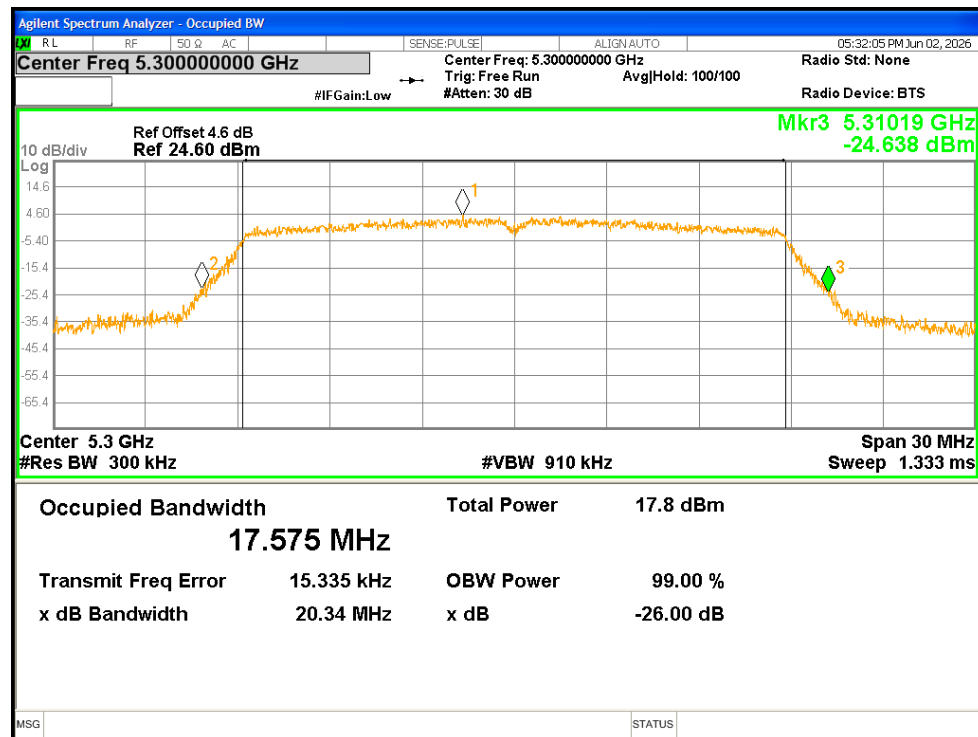
-26dB Bandwidth NVNT a 5320MHz



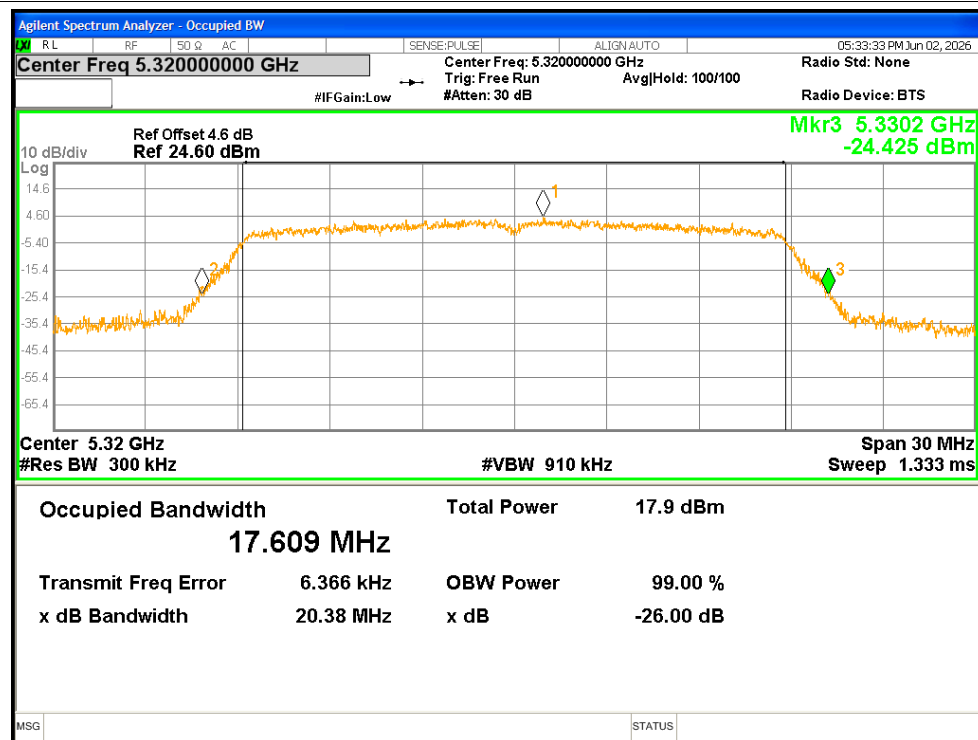
-26dB Bandwidth NVNT n20 5260MHz



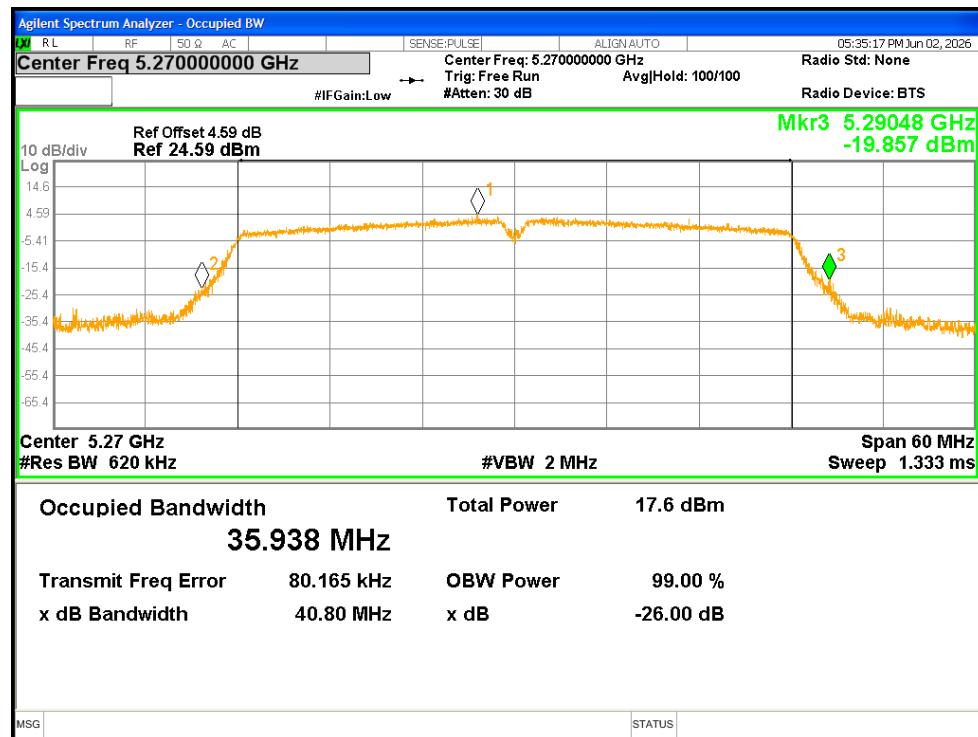
-26dB Bandwidth NVNT n20 5300MHz



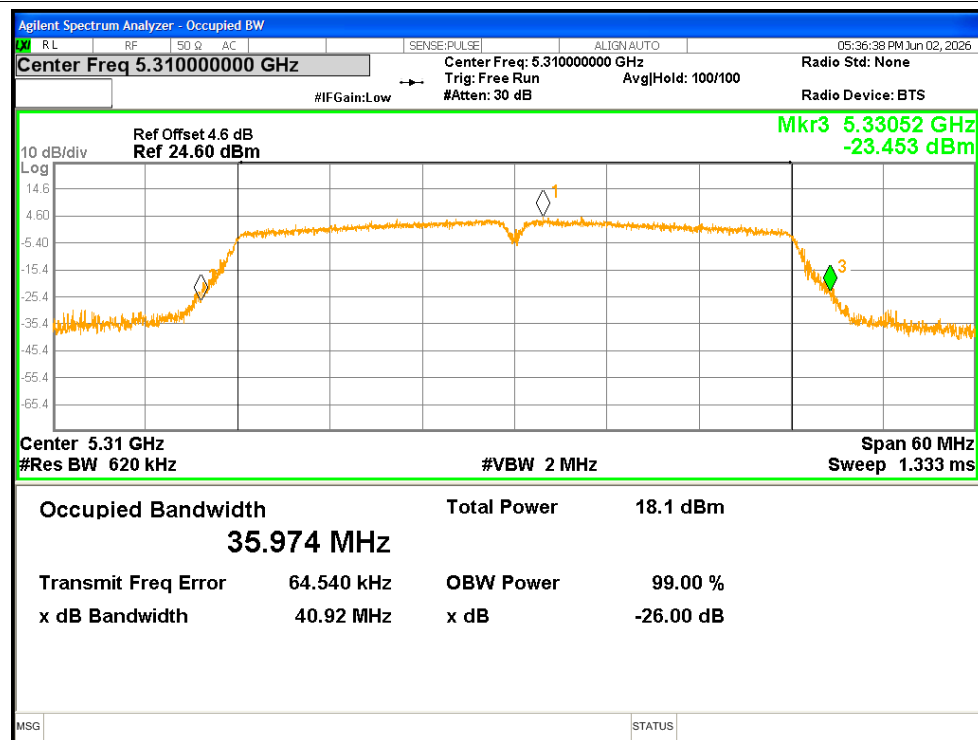
-26dB Bandwidth NVNT n20 5320MHz



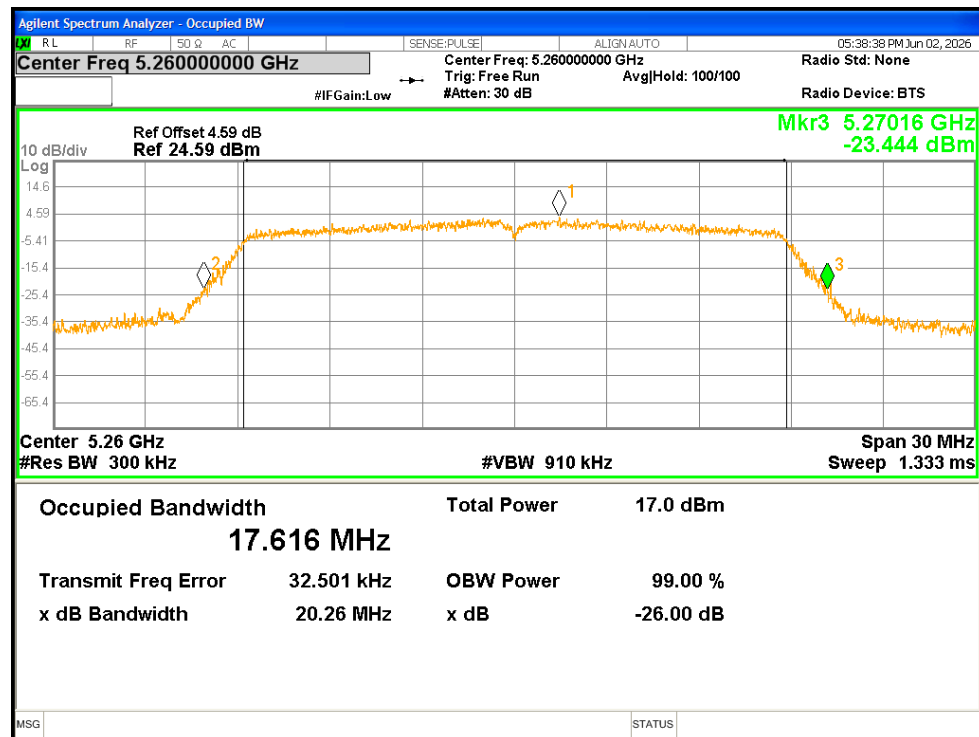
-26dB Bandwidth NVNT n40 5270MHz



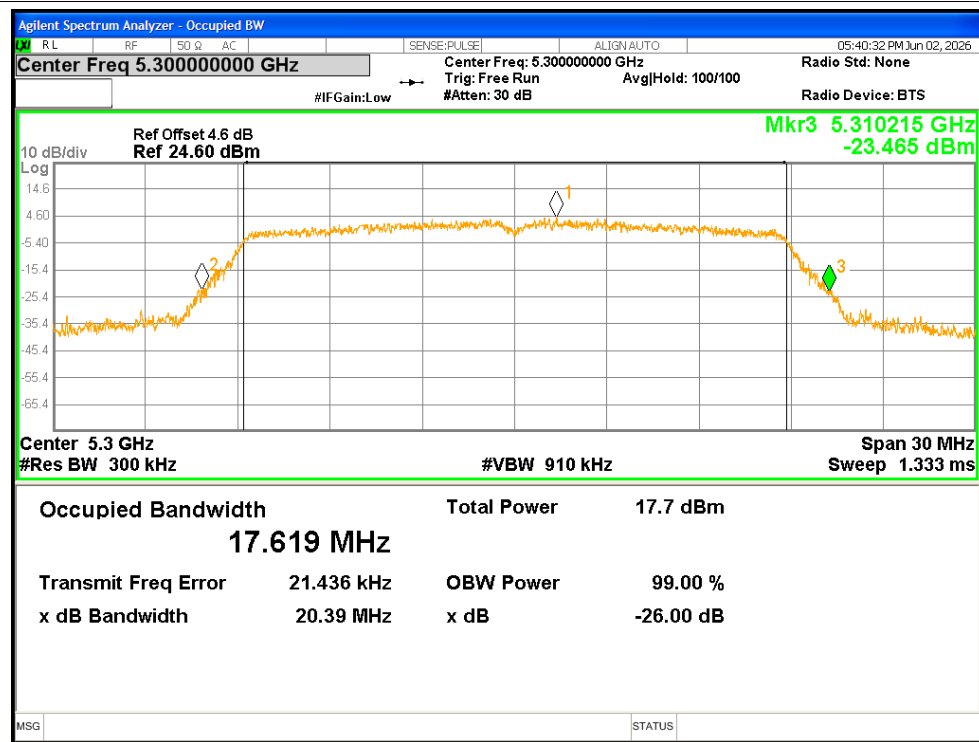
-26dB Bandwidth NVNT n40 5310MHz



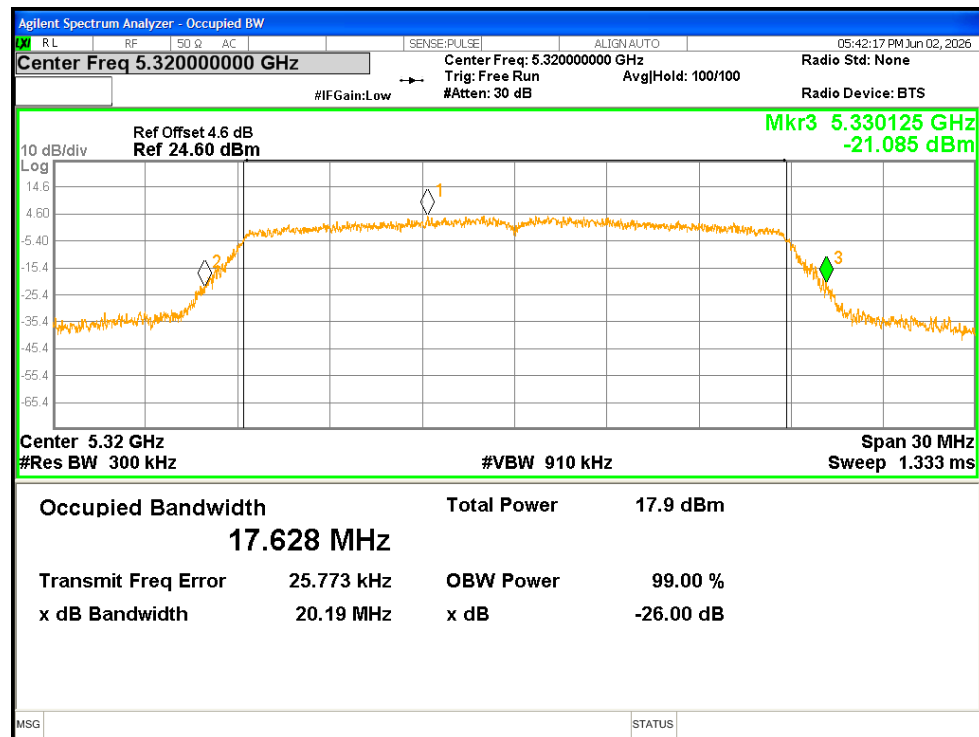
-26dB Bandwidth NVNT ac20 5260MHz



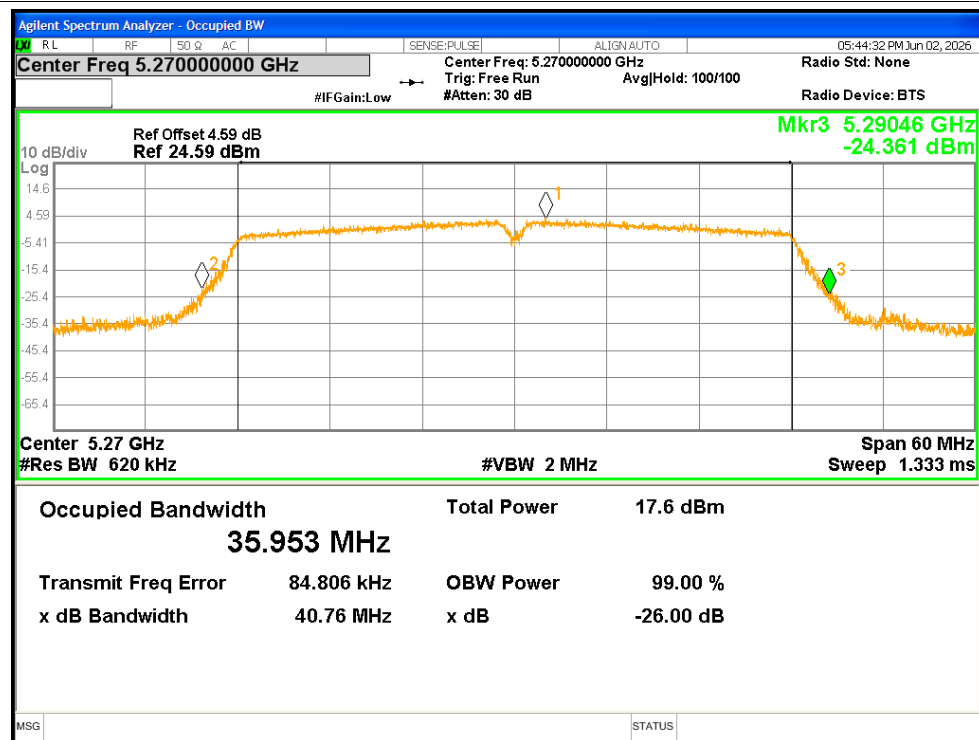
-26dB Bandwidth NVNT ac20 5300MHz



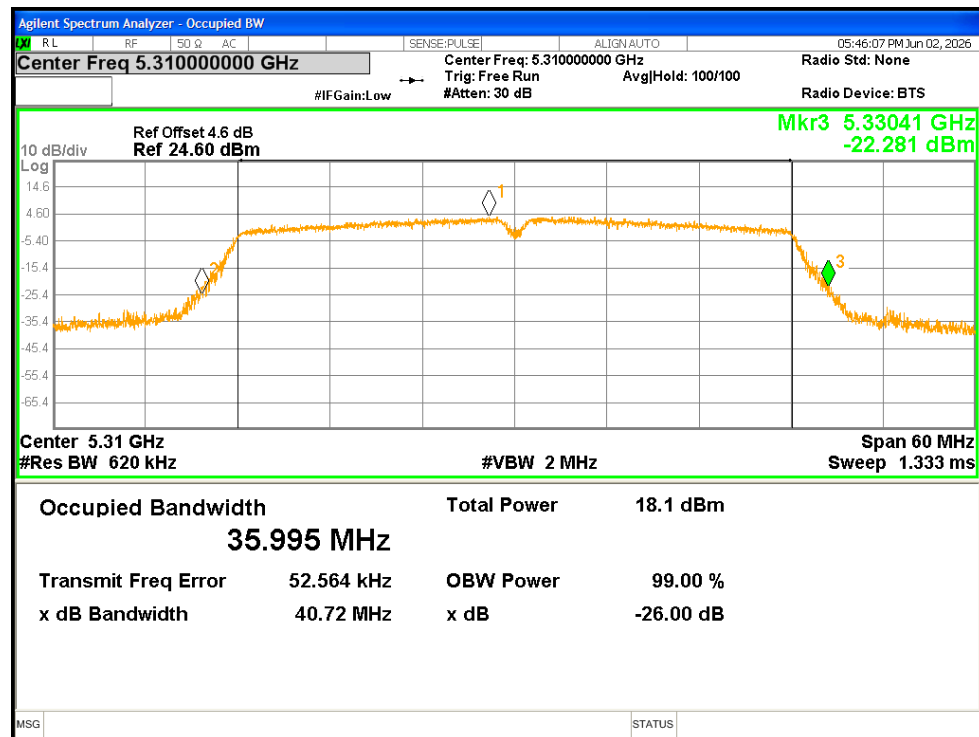
-26dB Bandwidth NVNT ac20 5320MHz



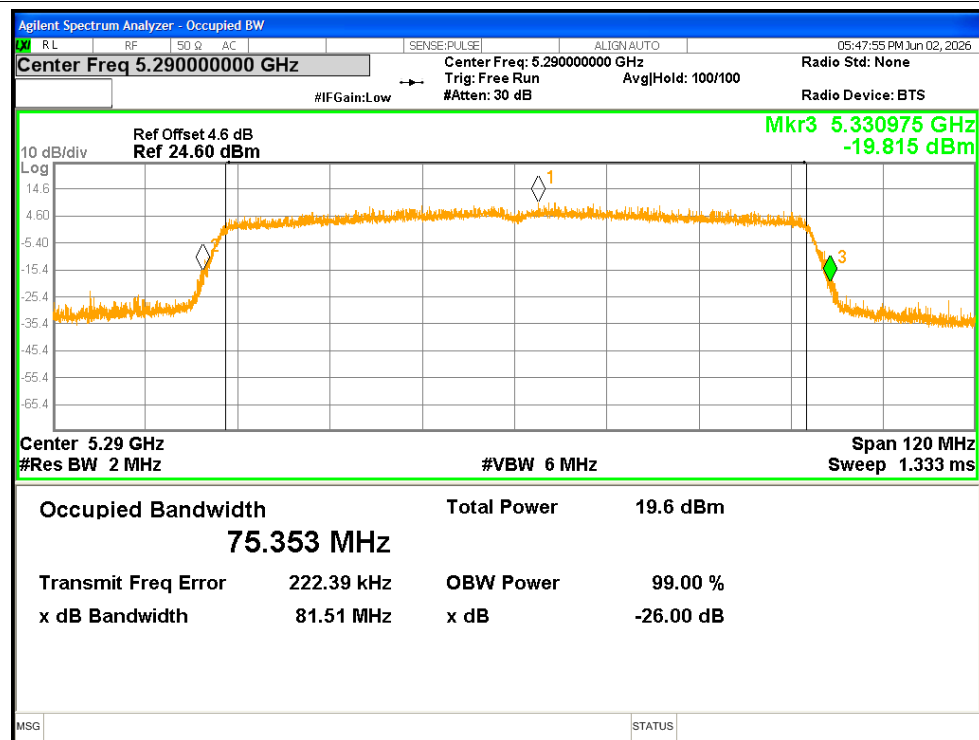
-26dB Bandwidth NVNT ac40 5270MHz



-26dB Bandwidth NVNT ac40 5310MHz



-26dB Bandwidth NVNT ac80 5290MHz

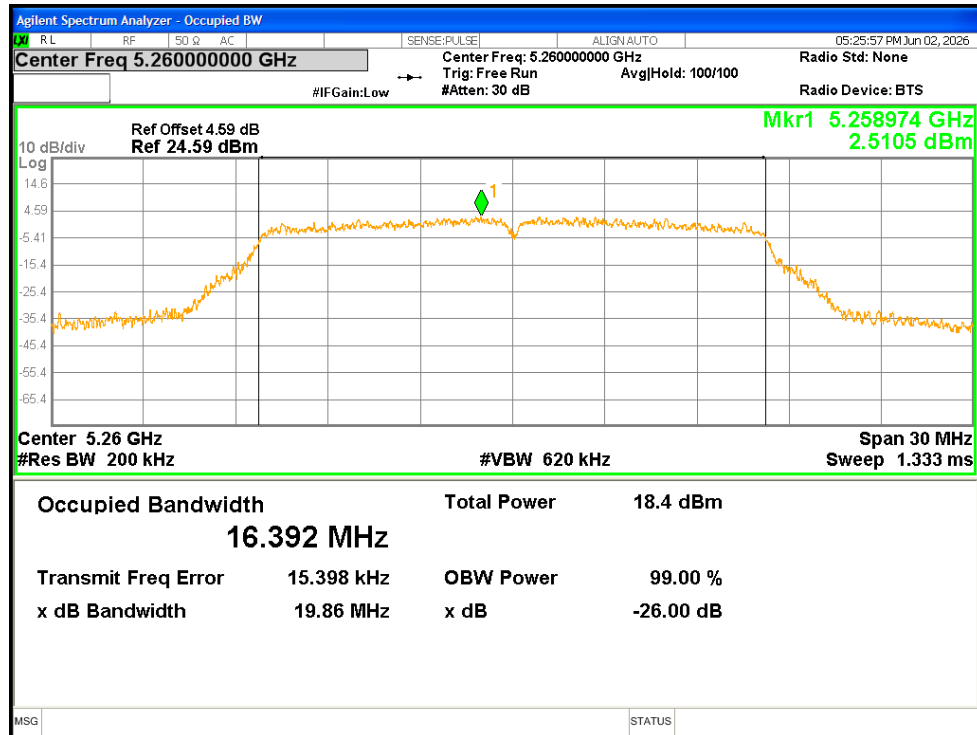


Occupied Channel Bandwidth

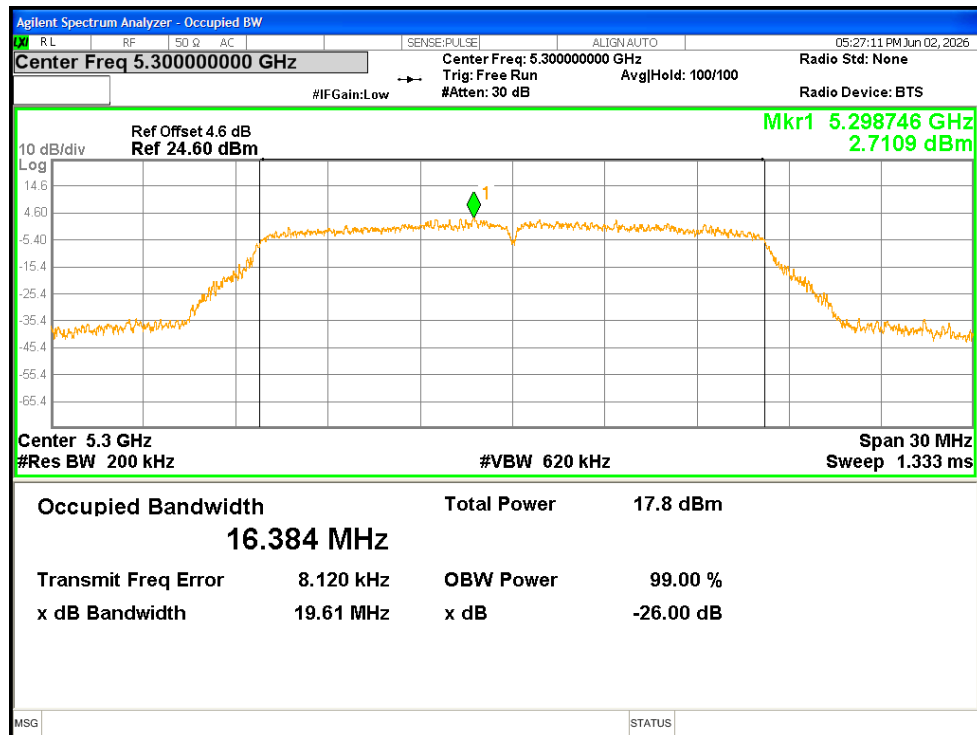
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5260	16.392
NVNT	a	5300	16.384
NVNT	a	5320	16.41
NVNT	n20	5260	17.524
NVNT	n20	5300	17.536
NVNT	n20	5320	17.553
NVNT	n40	5270	35.941
NVNT	n40	5310	35.943
NVNT	ac20	5260	17.511
NVNT	ac20	5300	17.534
NVNT	ac20	5320	17.548
NVNT	ac40	5270	35.952
NVNT	ac40	5310	35.964
NVNT	ac80	5290	75.101

Test Graphs

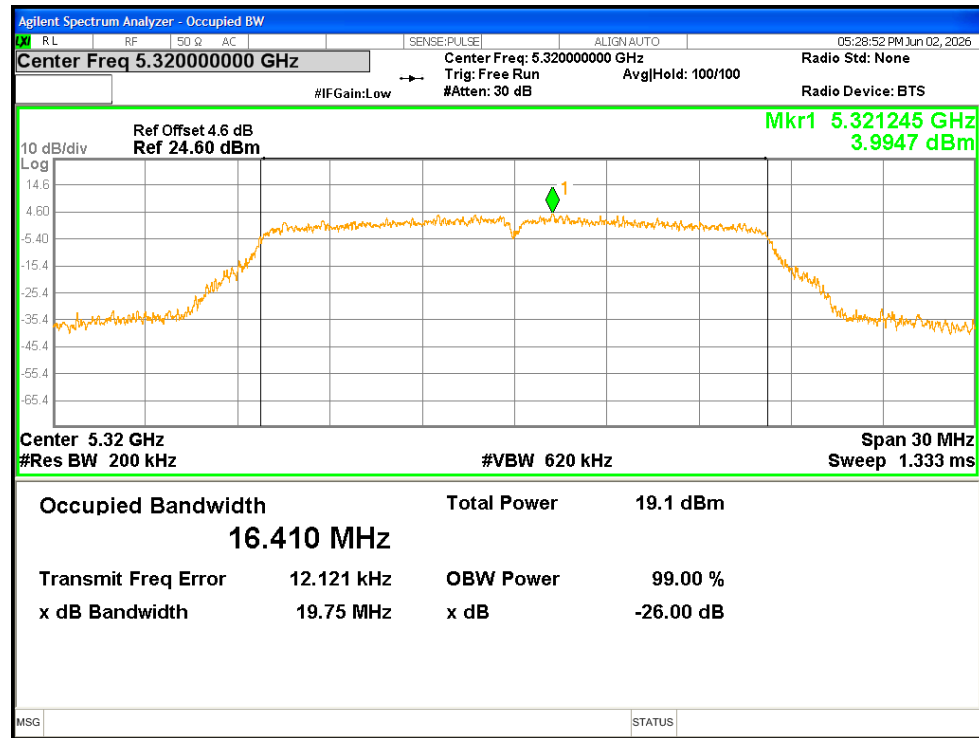
OBW NVNT a 5260MHz



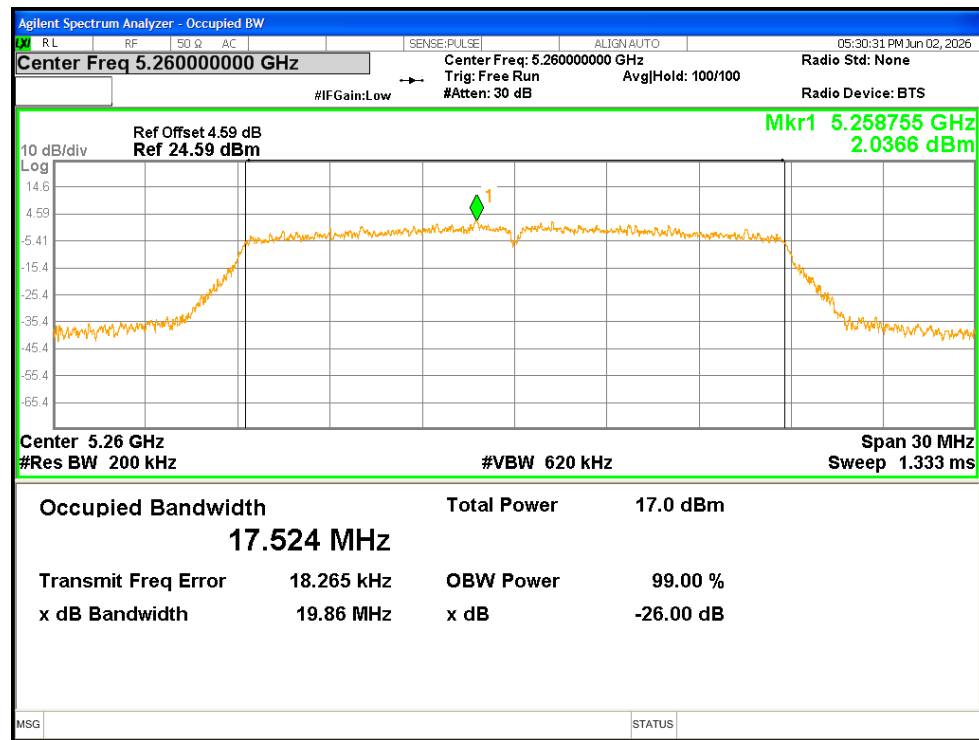
OBW NVNT a 5300MHz



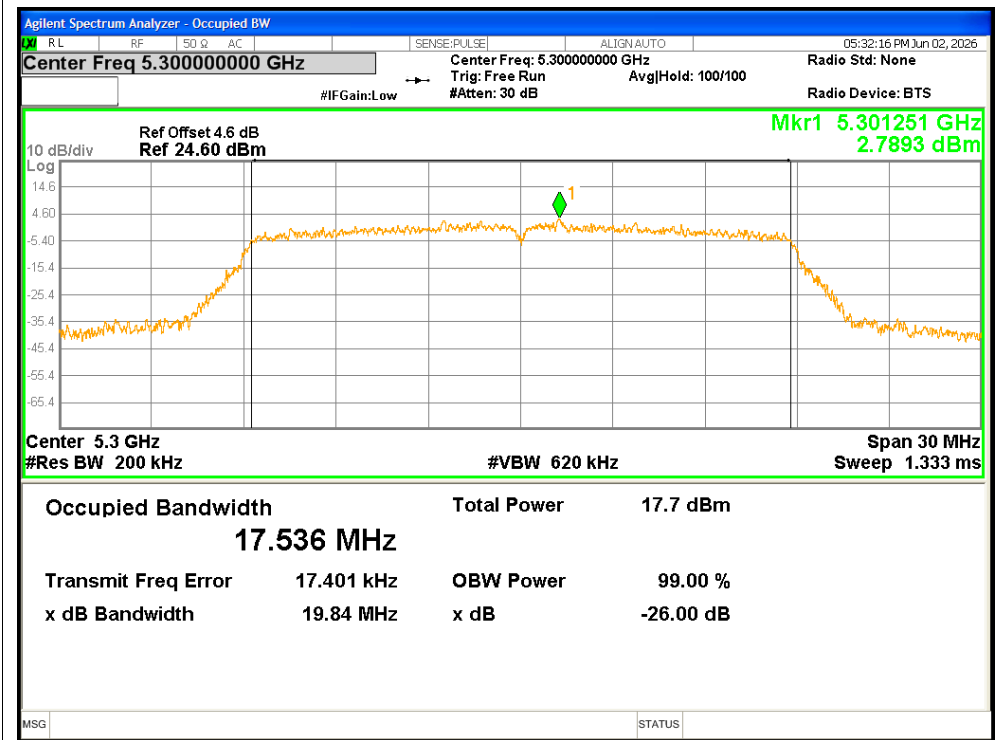
OBW NVNT a 5320MHz



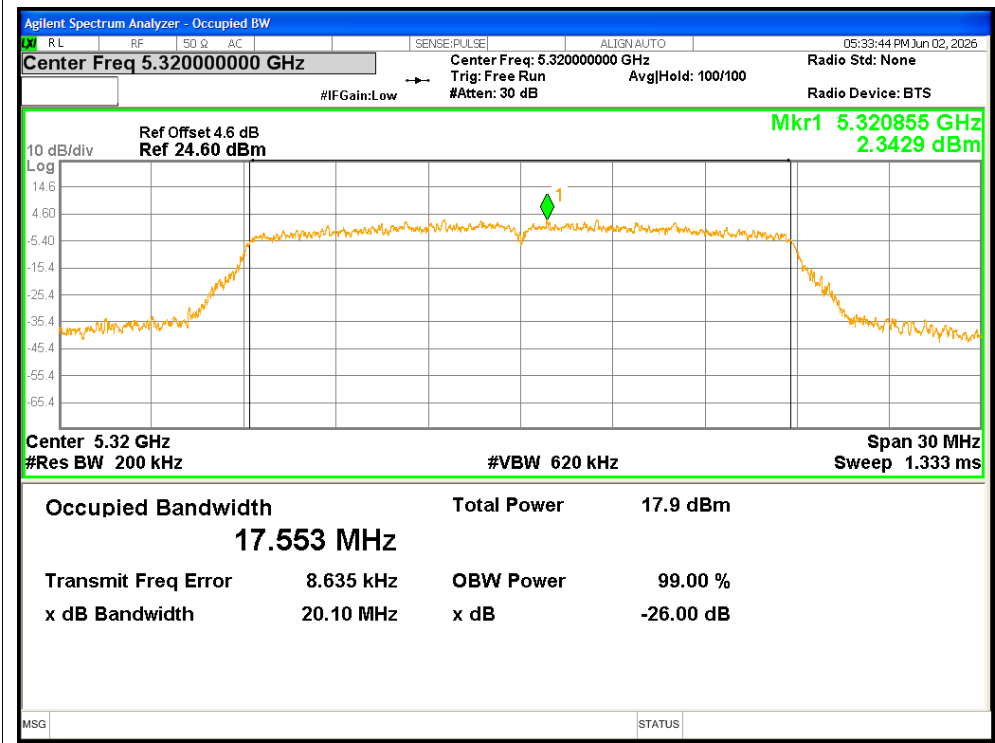
OBW NVNT n20 5260MHz



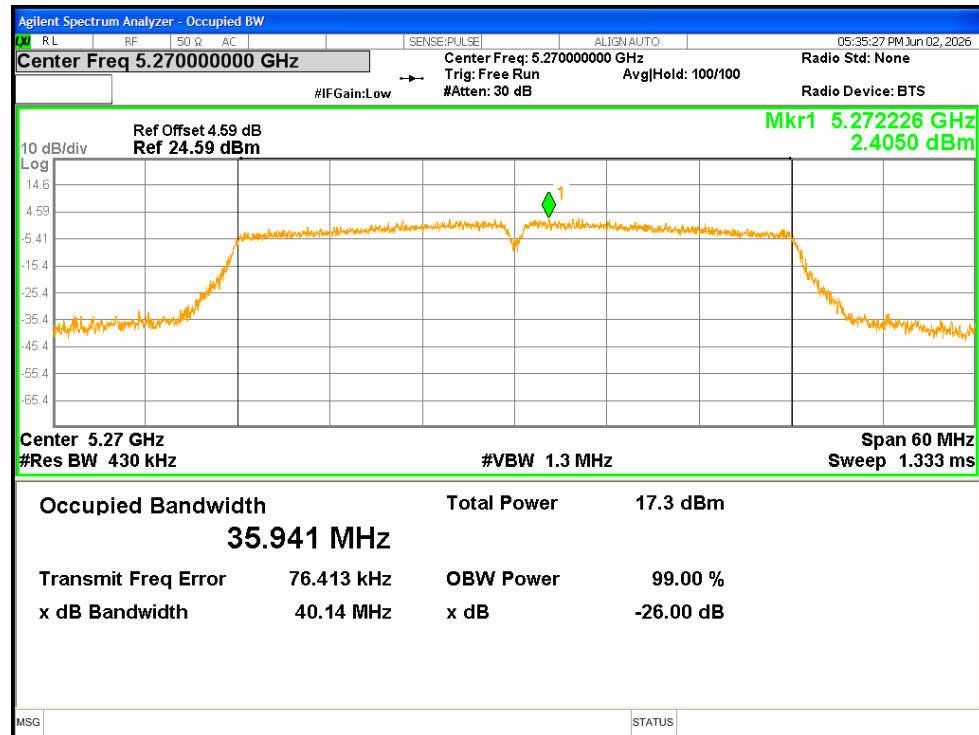
OBW NVNT n20 5300MHz



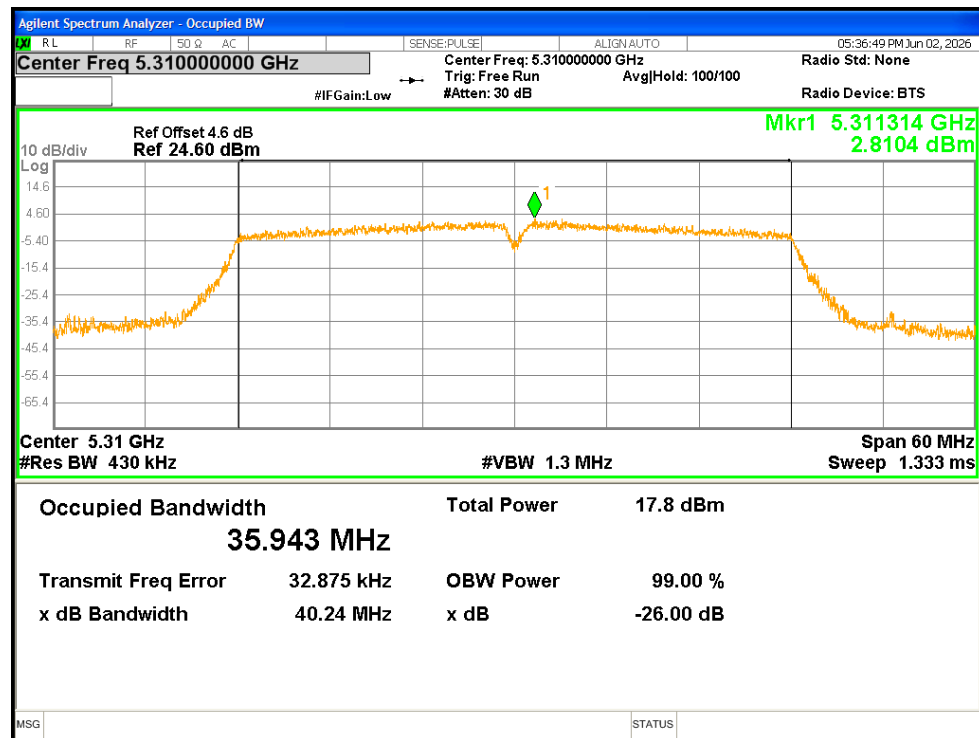
OBW NVNT n20 5320MHz



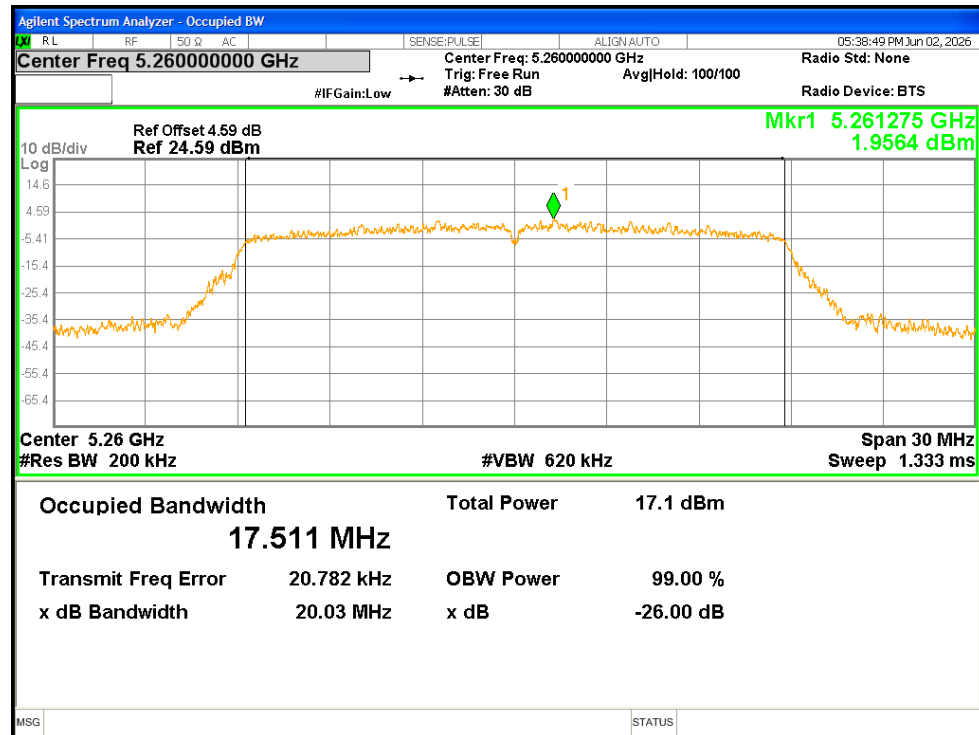
OBW NVNT n40 5270MHz



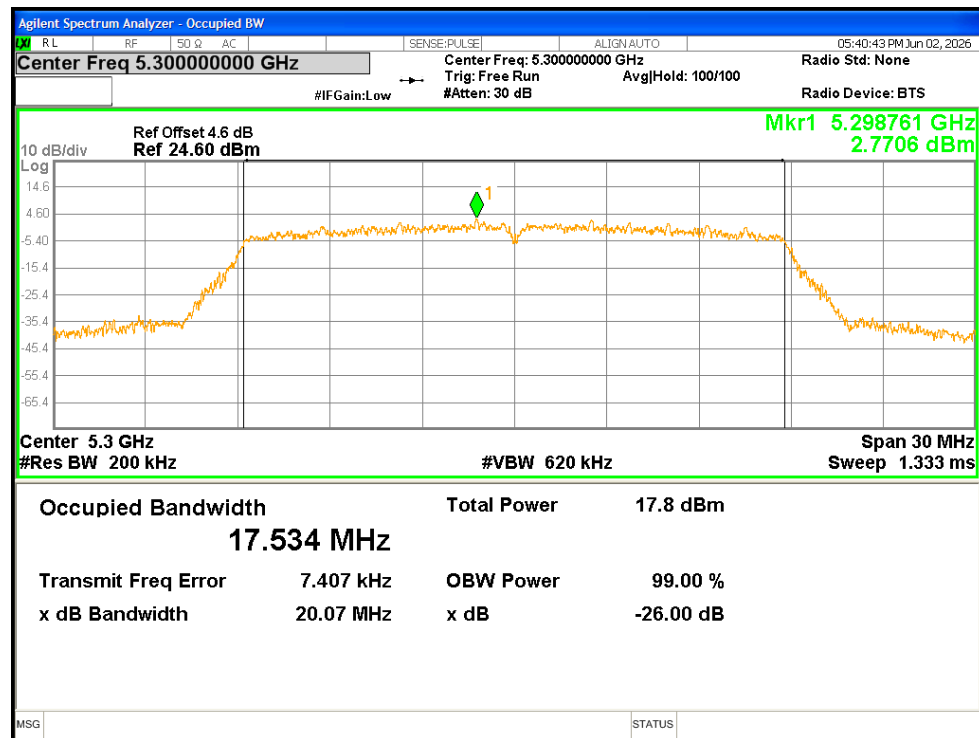
OBW NVNT n40 5310MHz



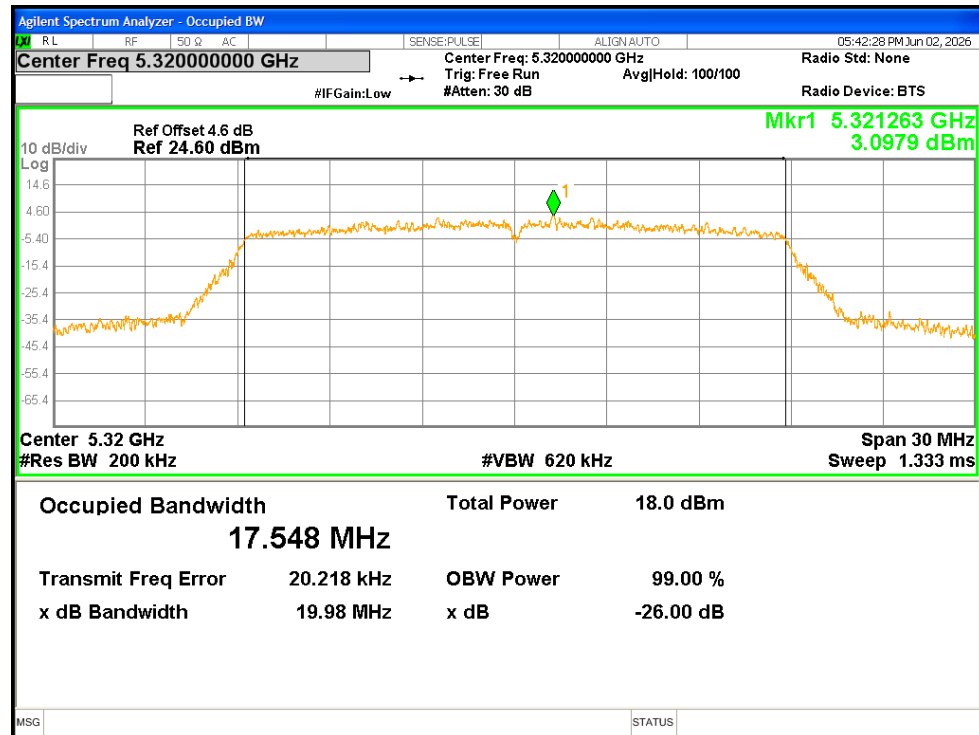
OBW NVNT ac20 5260MHz



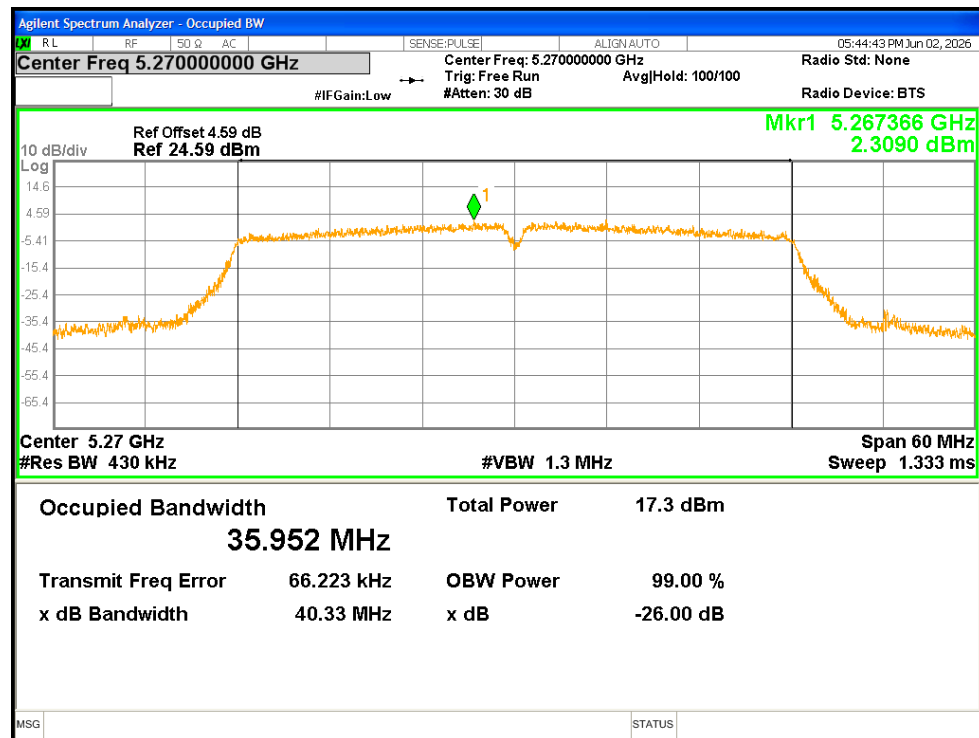
OBW NVNT ac20 5300MHz



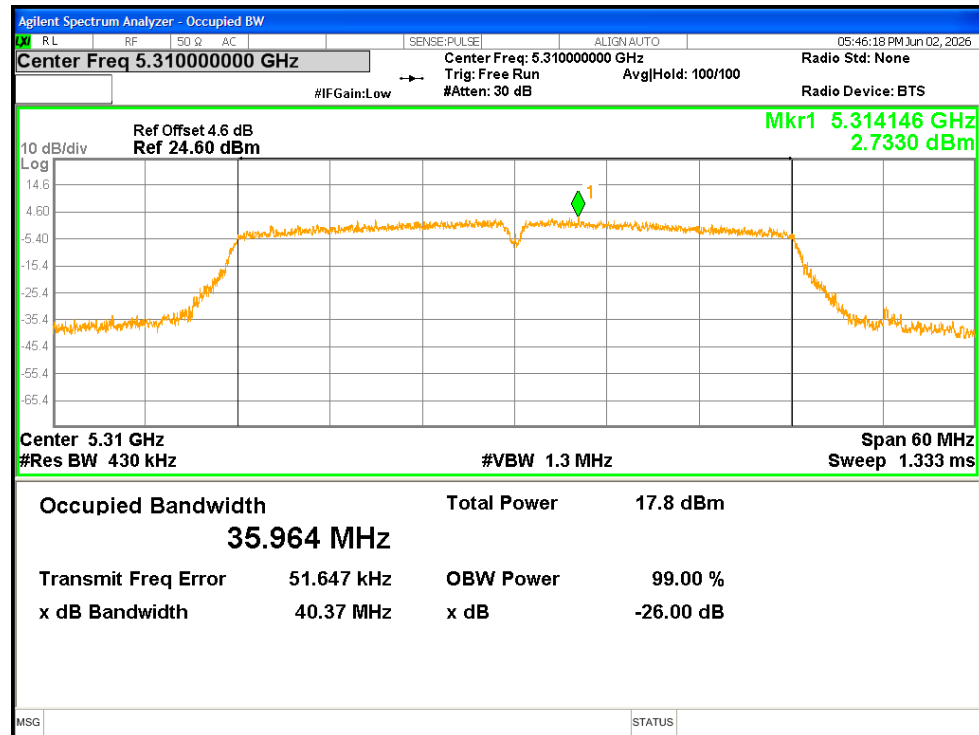
OBW NVNT ac20 5320MHz



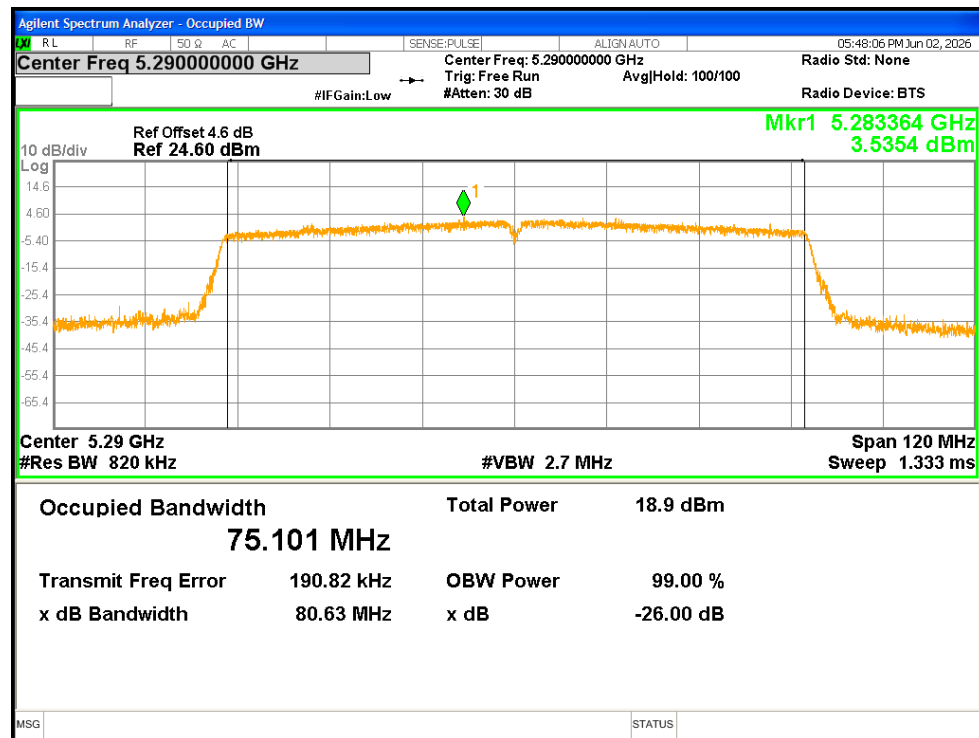
OBW NVNT ac40 5270MHz



OBW NVNT ac40 5310MHz



OBW NVNT ac80 5290MHz

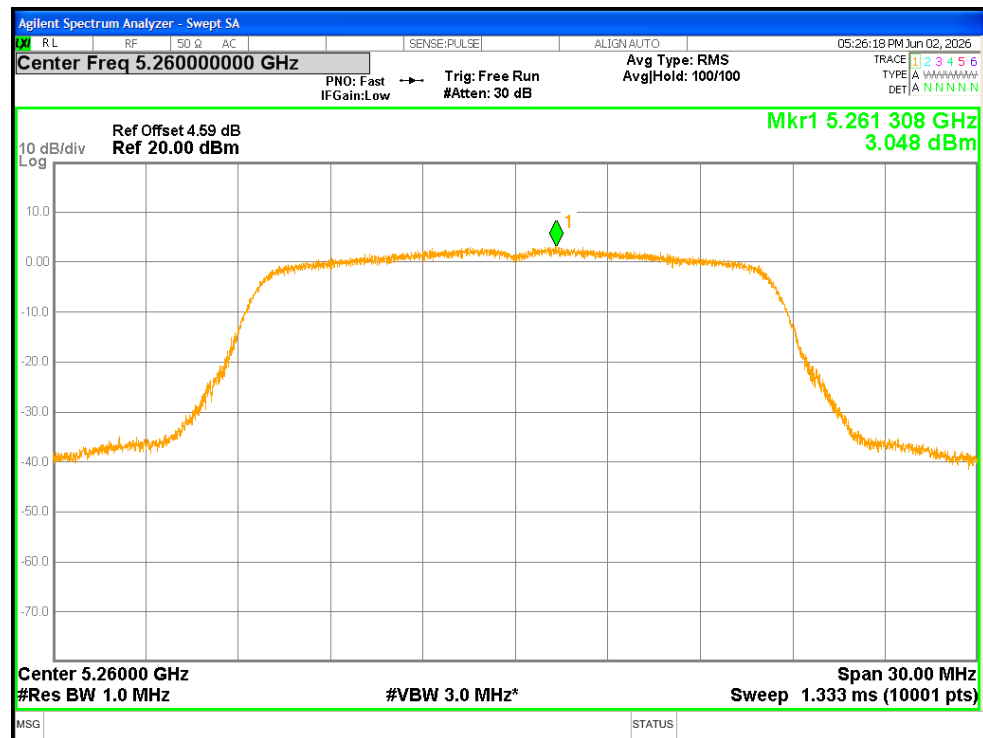


Maximum Power Spectral Density Level

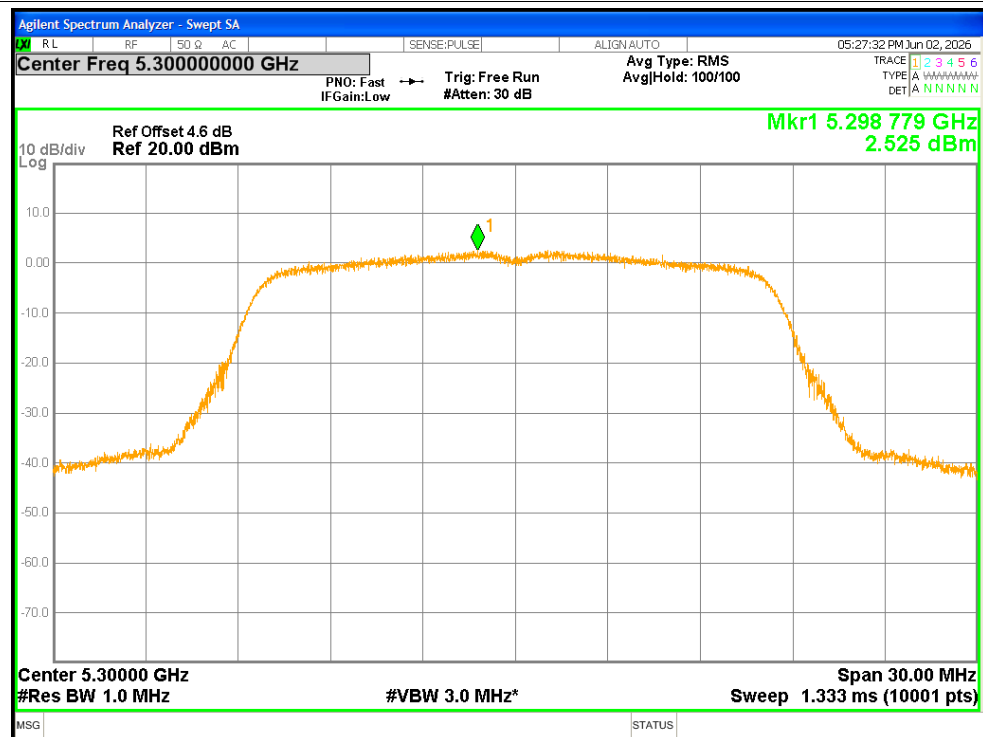
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	3.048	0.11	3.158	<=11	Pass
NVNT	a	5300	2.525	0.11	2.635	<=11	Pass
NVNT	a	5320	4.198	0.1	4.298	<=11	Pass
NVNT	n20	5260	1.616	0.12	1.736	<=11	Pass
NVNT	n20	5300	2.186	0.12	2.306	<=11	Pass
NVNT	n20	5320	2.351	0.12	2.471	<=11	Pass
NVNT	n40	5270	-1.137	0.22	-0.917	<=11	Pass
NVNT	n40	5310	-0.527	0.21	-0.317	<=11	Pass
NVNT	ac20	5260	1.308	0.12	1.428	<=11	Pass
NVNT	ac20	5300	2.393	0.12	2.513	<=11	Pass
NVNT	ac20	5320	2.639	0.12	2.759	<=11	Pass
NVNT	ac40	5270	-1.051	0.22	-0.831	<=11	Pass
NVNT	ac40	5310	-0.777	0.23	-0.547	<=11	Pass
NVNT	ac80	5290	-3.334	0.45	-2.884	<=11	Pass

Test Graphs

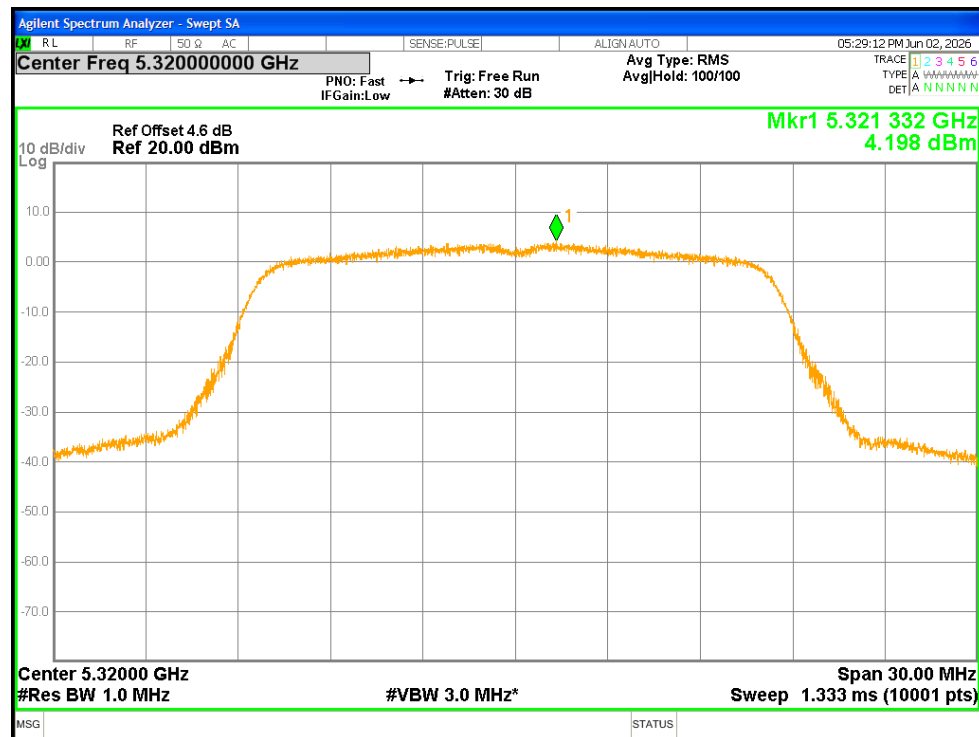
PSD NVNT a 5260MHz



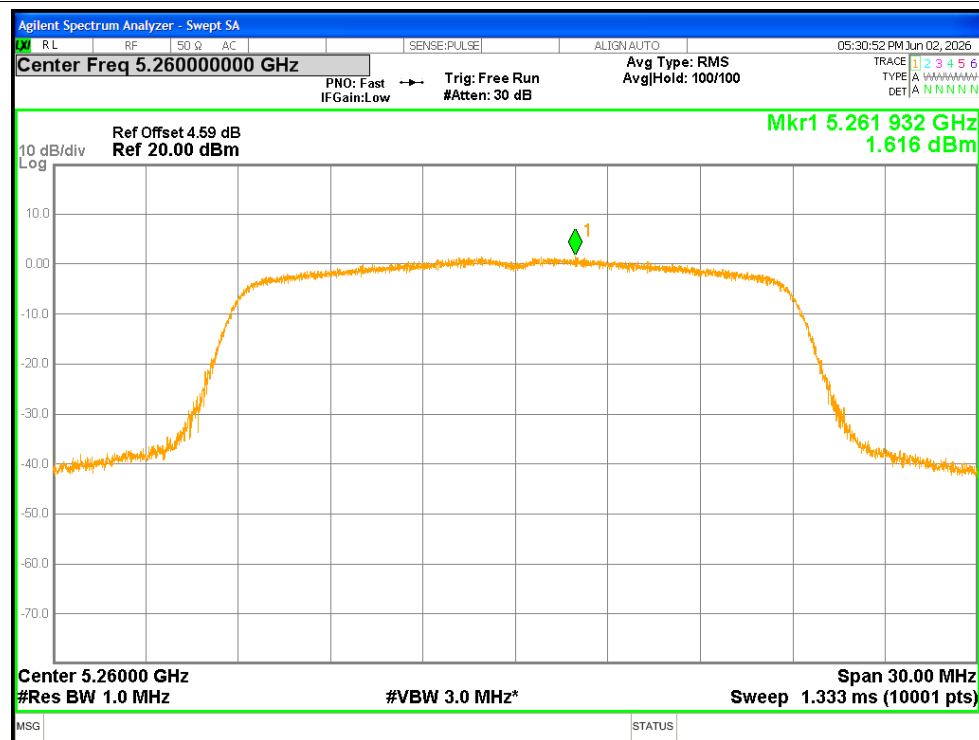
PSD NVNT a 5300MHz



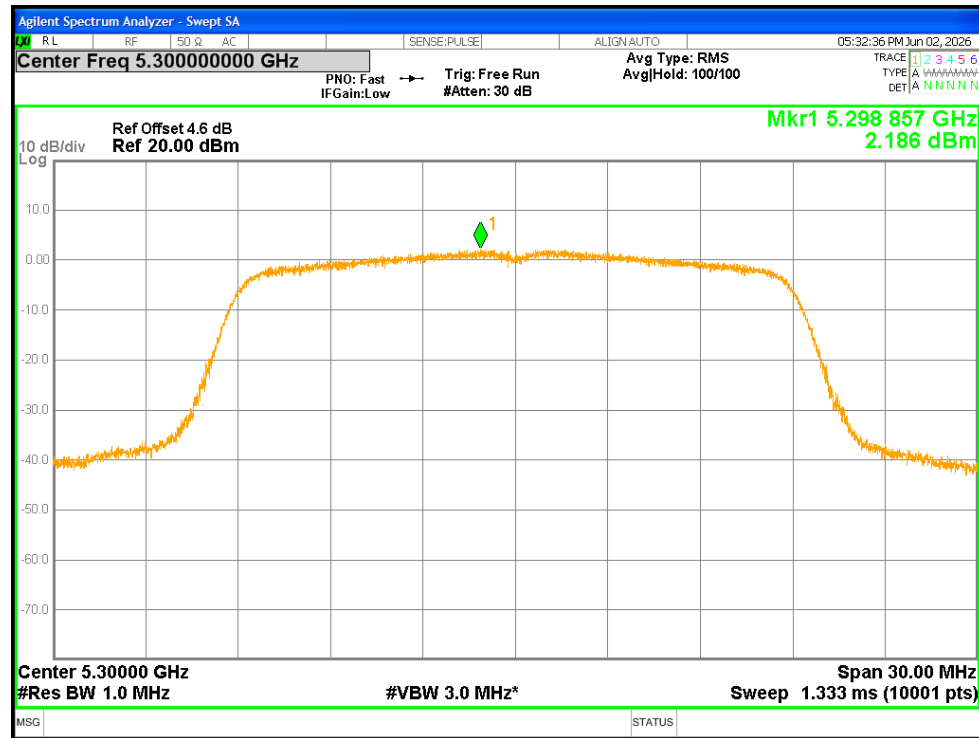
PSD NVNT a 5320MHz



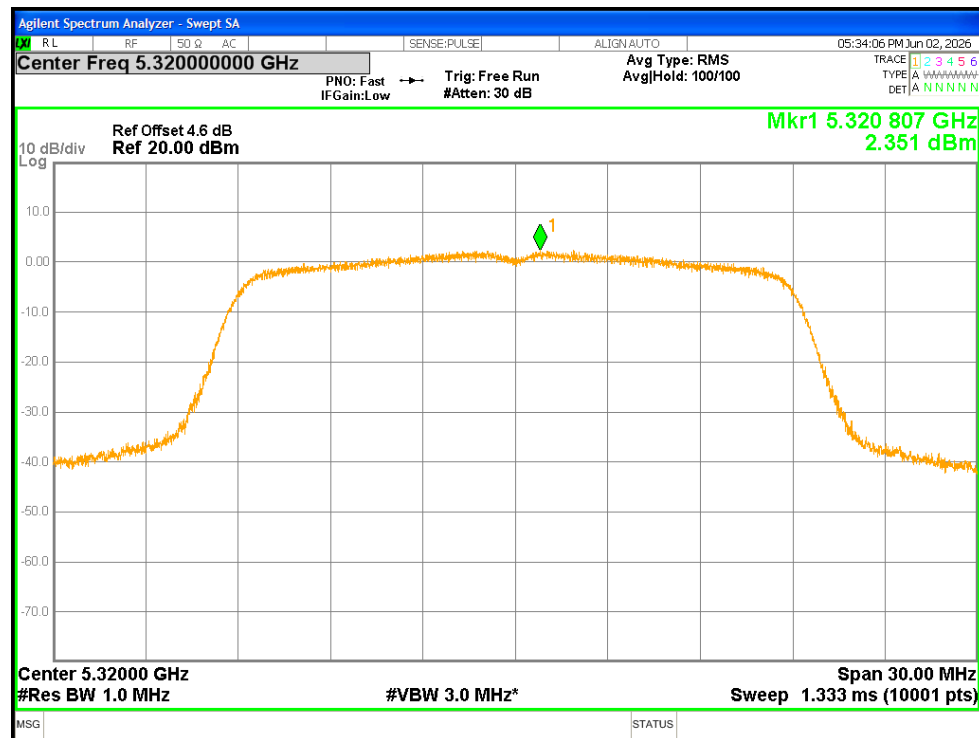
PSD NVNT n20 5260MHz



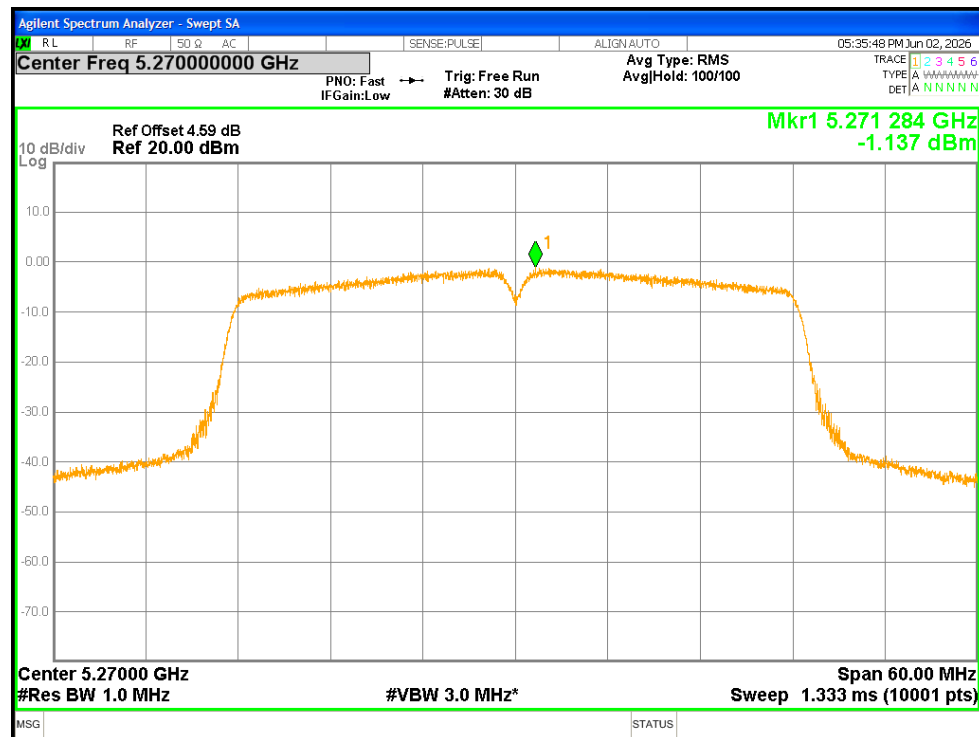
PSD NVNT n20 5300MHz



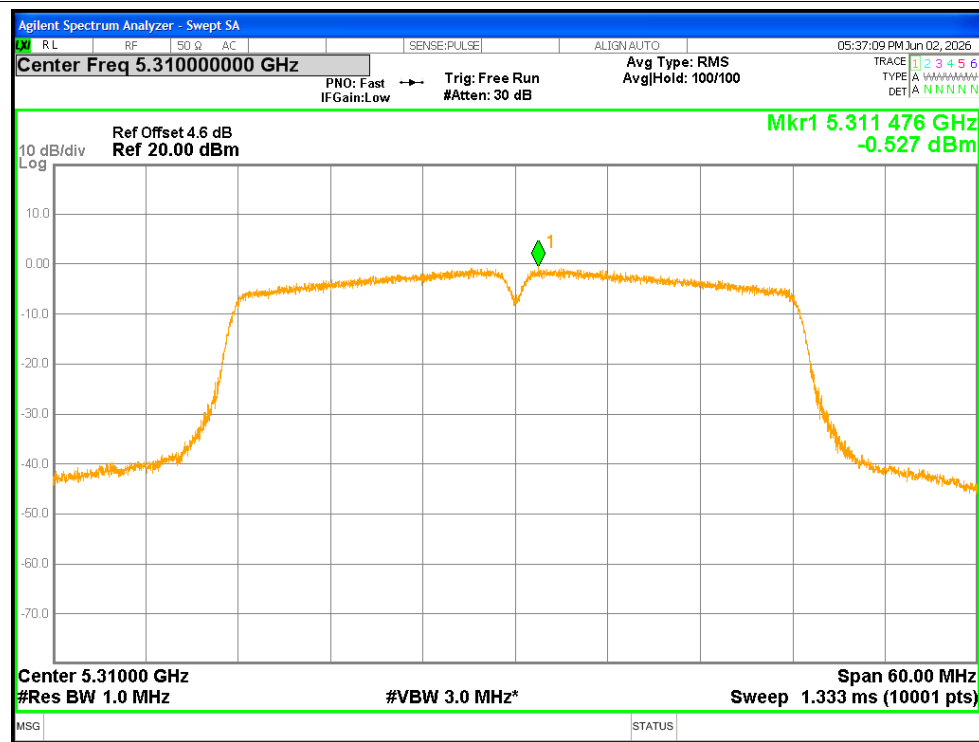
PSD NVNT n20 5320MHz



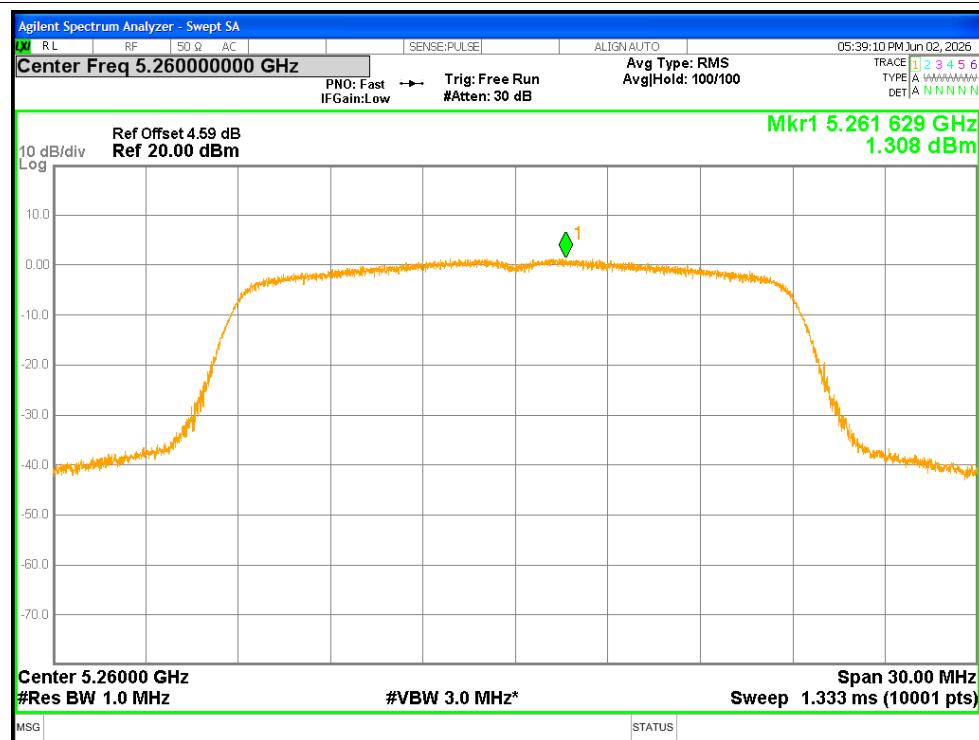
PSD NVNT n40 5270MHz



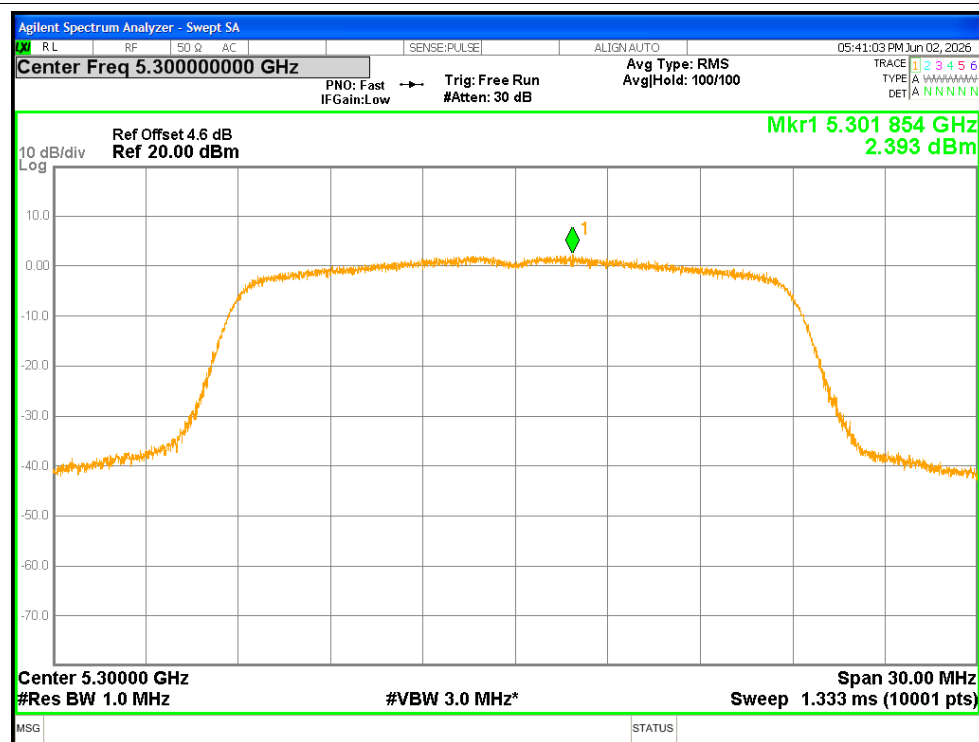
PSD NVNT n40 5310MHz



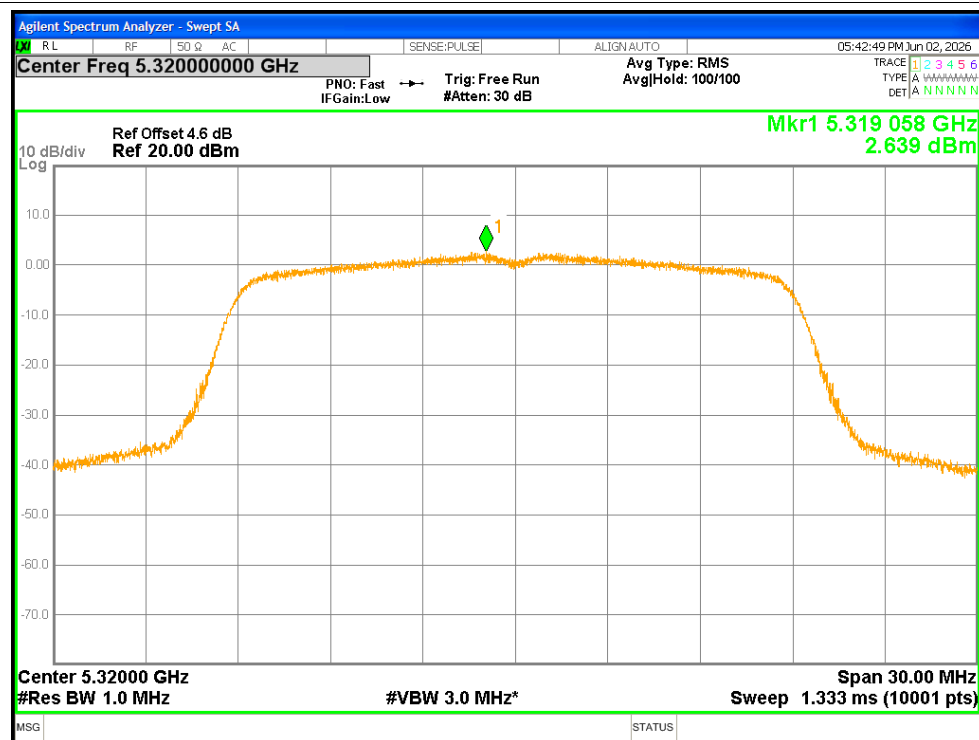
PSD NVNT ac20 5260MHz



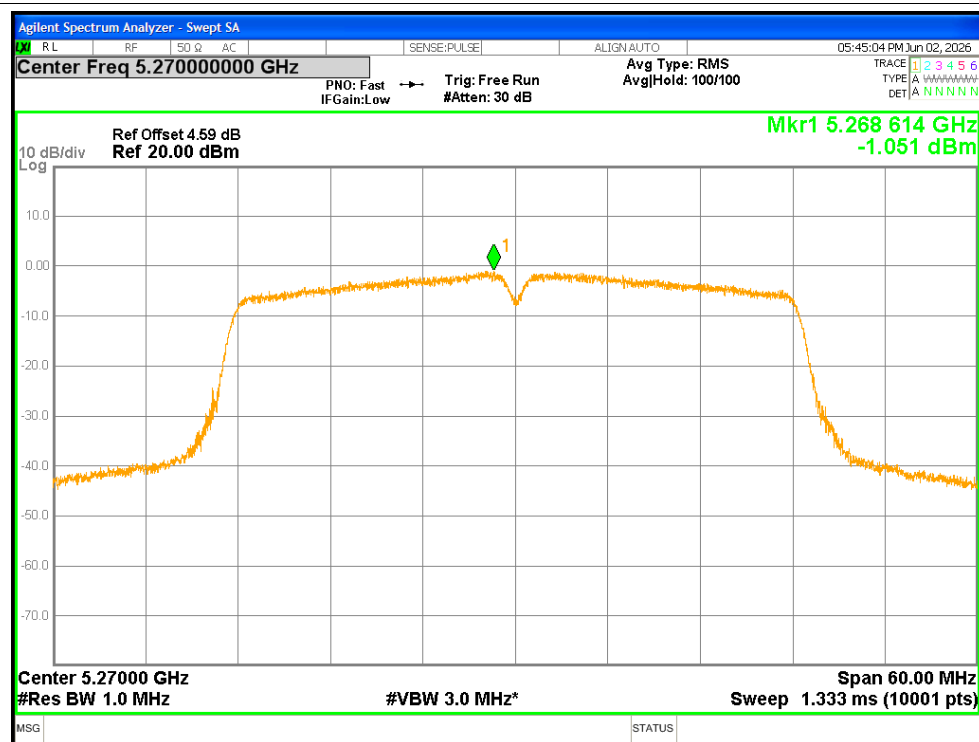
PSD NVNT ac20 5300MHz



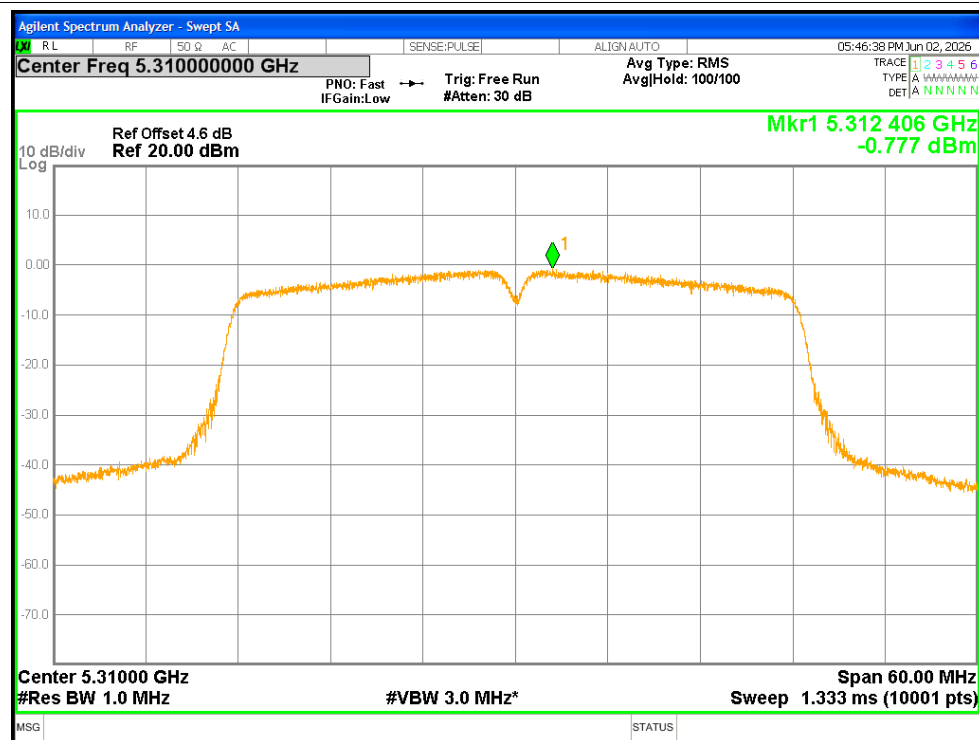
PSD NVNT ac20 5320MHz



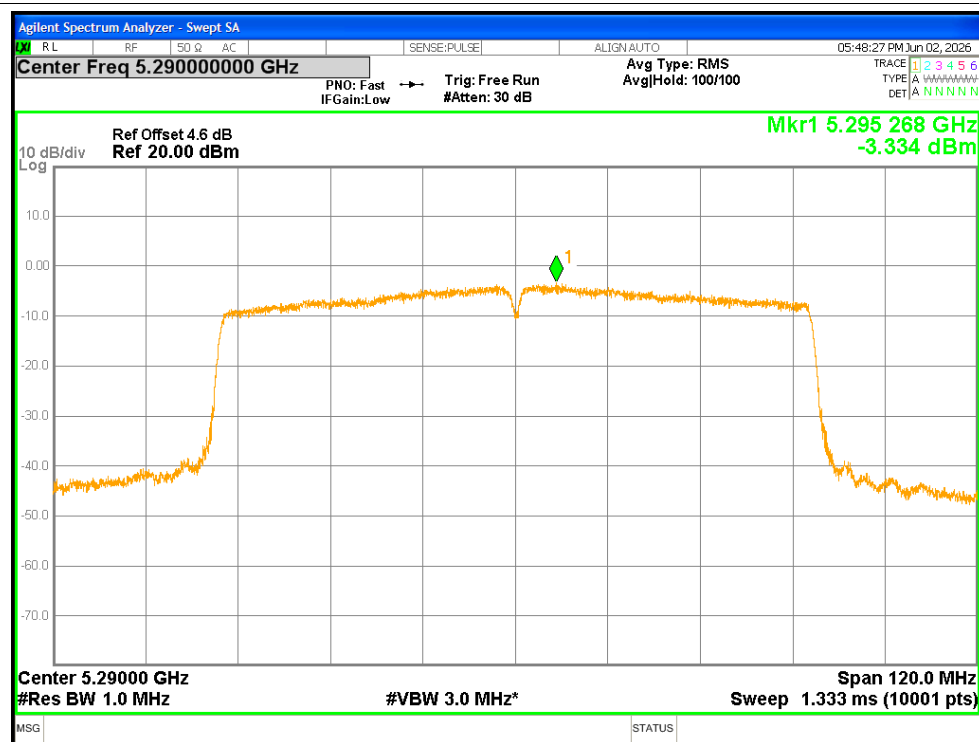
PSD NVNT ac40 5270MHz



PSD NVNT ac40 5310MHz



PSD NVNT ac80 5290MHz

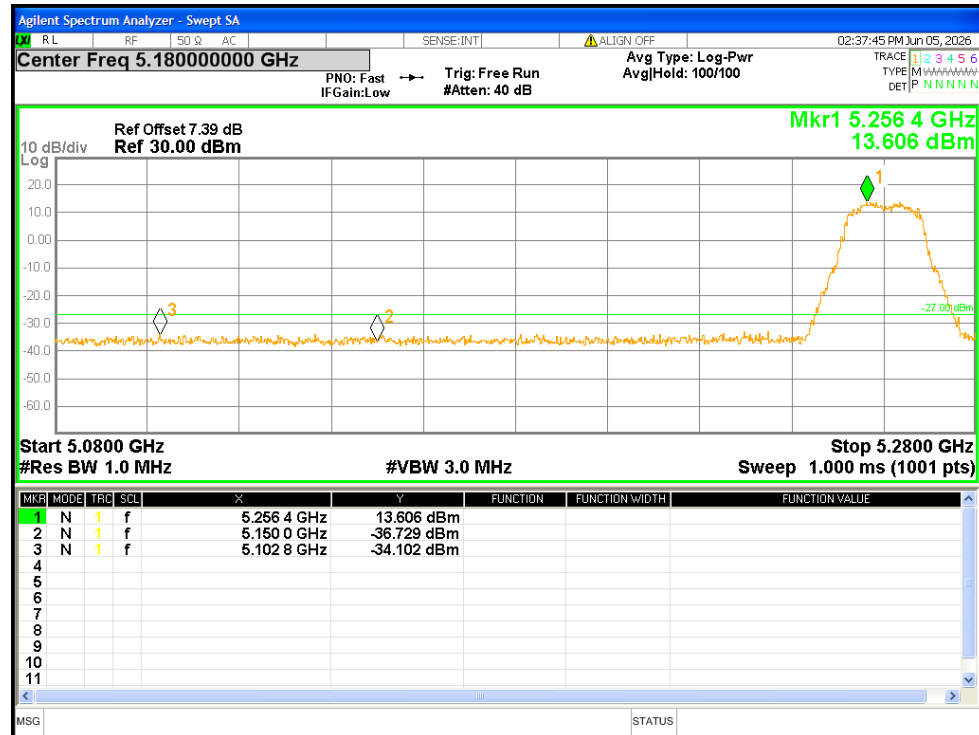


Band Edge

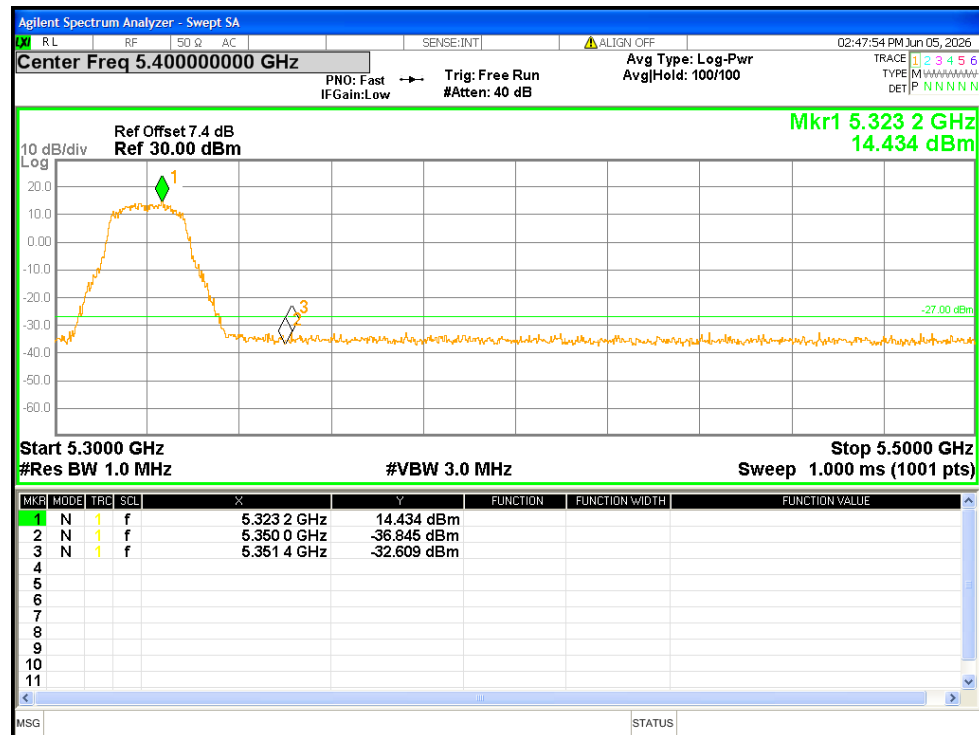
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
a	5260	-34.1	<=-27	Pass
a	5320	-32.6	<=-27	Pass
n20	5260	-43.06	<=-27	Pass
n20	5320	-31.99	<=-27	Pass
n40	5270	-43.77	<=-27	Pass
n40	5310	-40.5	<=-27	Pass
ac20	5260	-33.59	<=-27	Pass
ac20	5320	-32.25	<=-27	Pass
ac40	5270	-43.18	<=-27	Pass
ac40	5310	-39.12	<=-27	Pass
ac80	5290	-37.42	<=-27	Pass
ac80	5290	-45.27	<=-27	Pass

Test Graphs

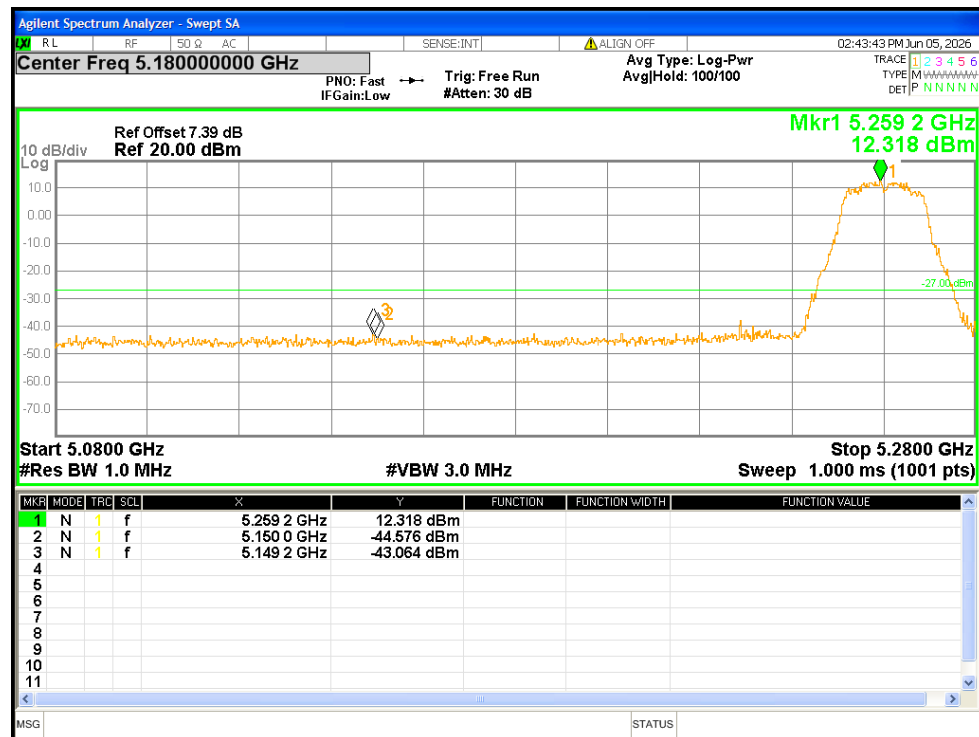
Band Edge NVNT a 5260MHz Low



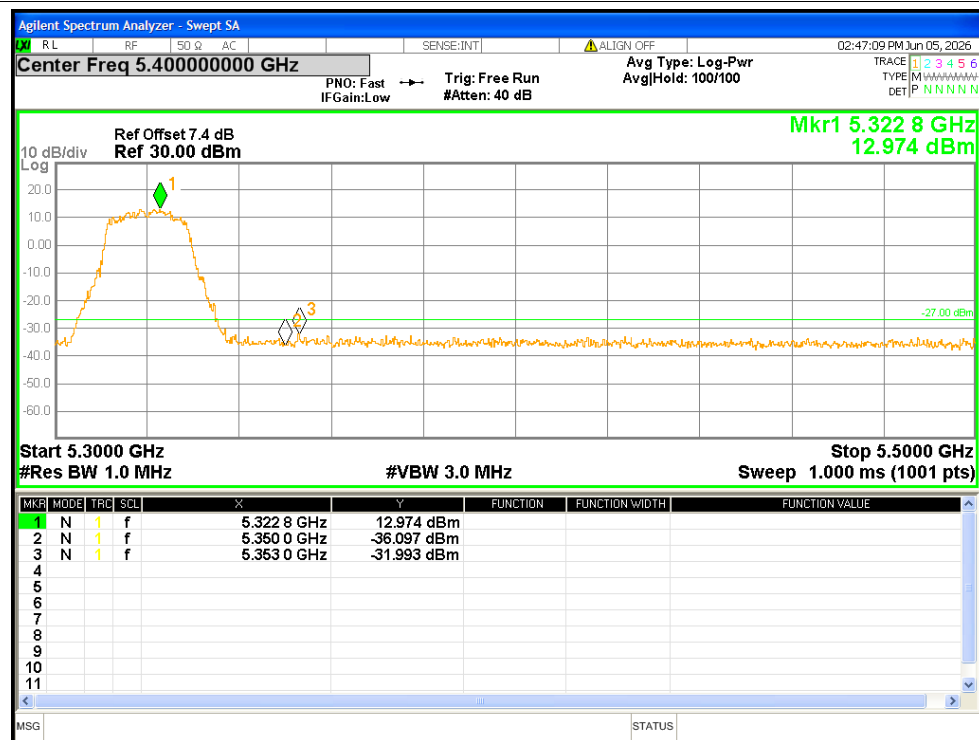
Band Edge NVNT a 5320MHz High



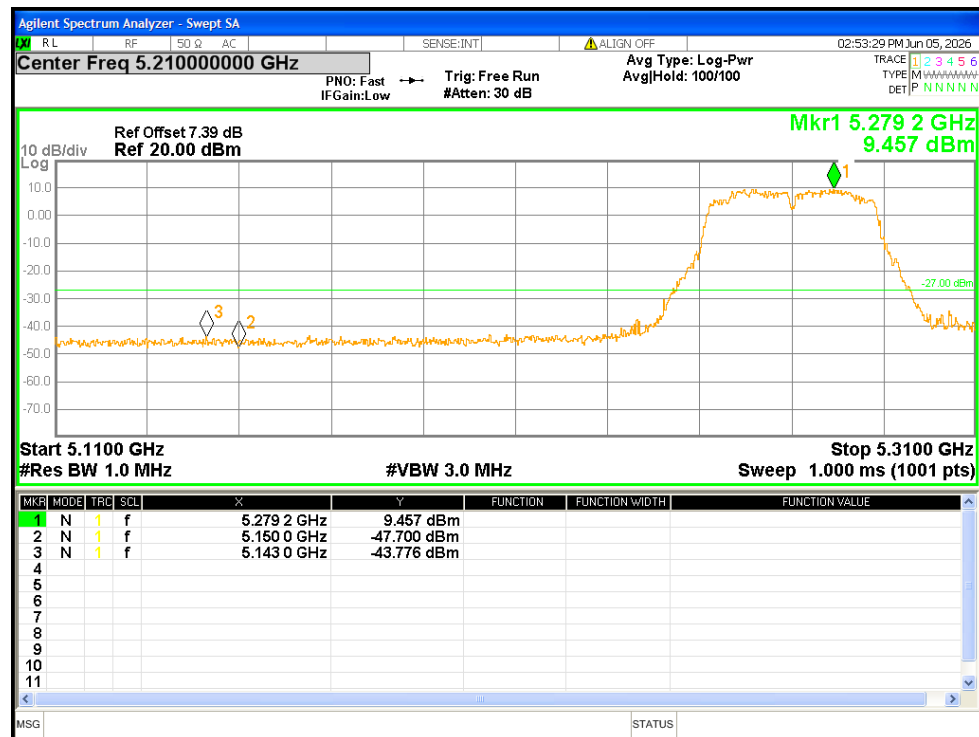
Band Edge NVNT n20 5260MHz Low



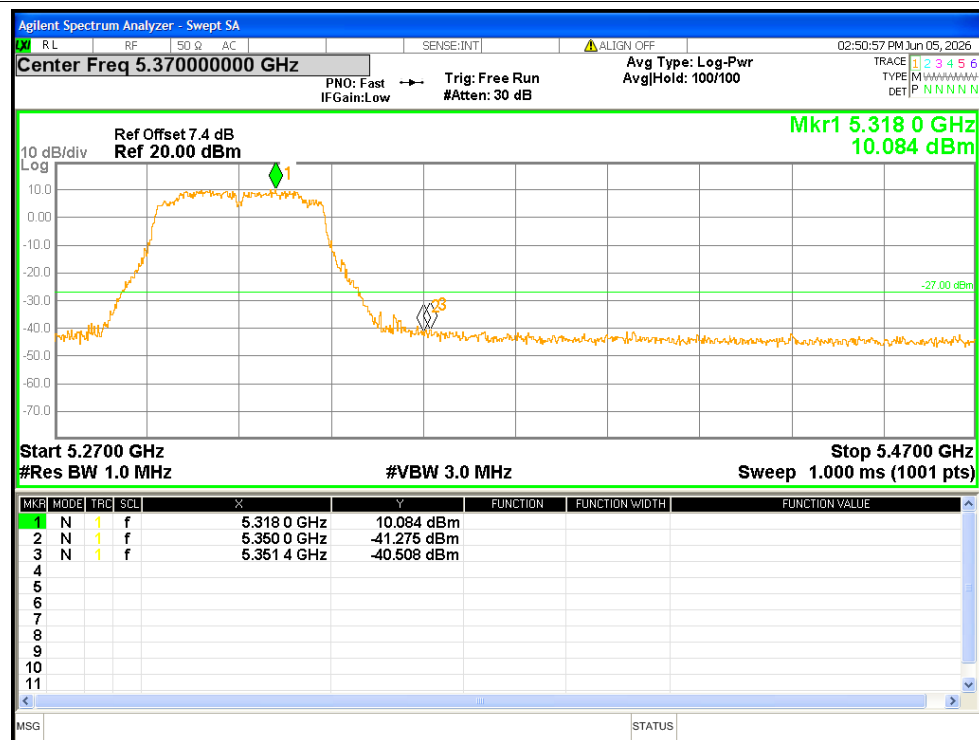
Band Edge NVNT n20 5320MHz High



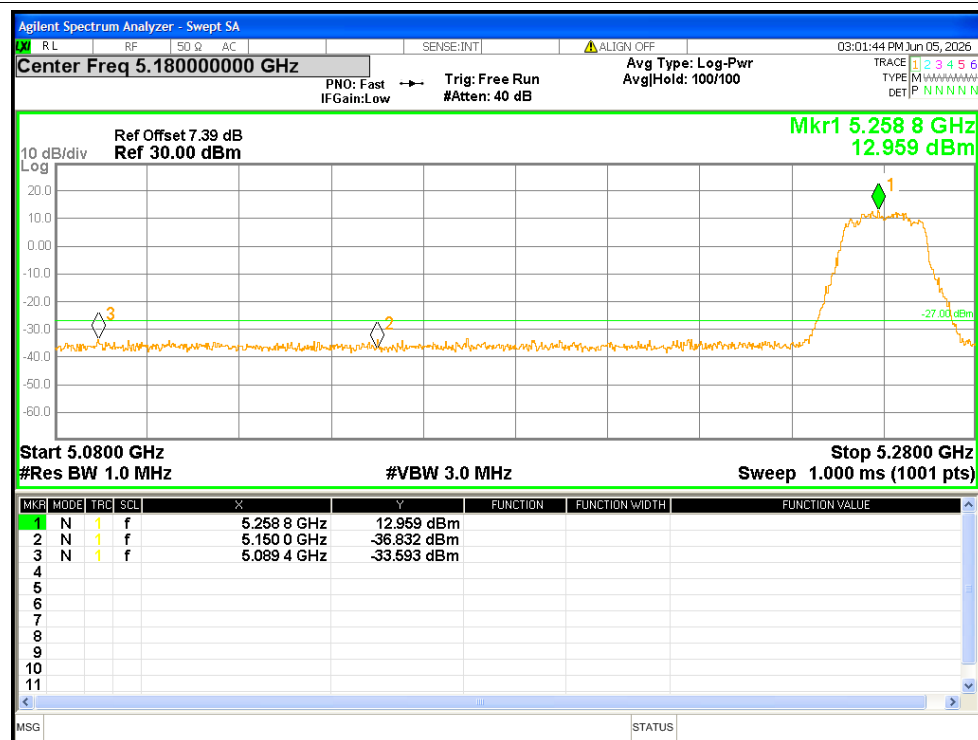
Band Edge NVNT n40 5270MHz Low



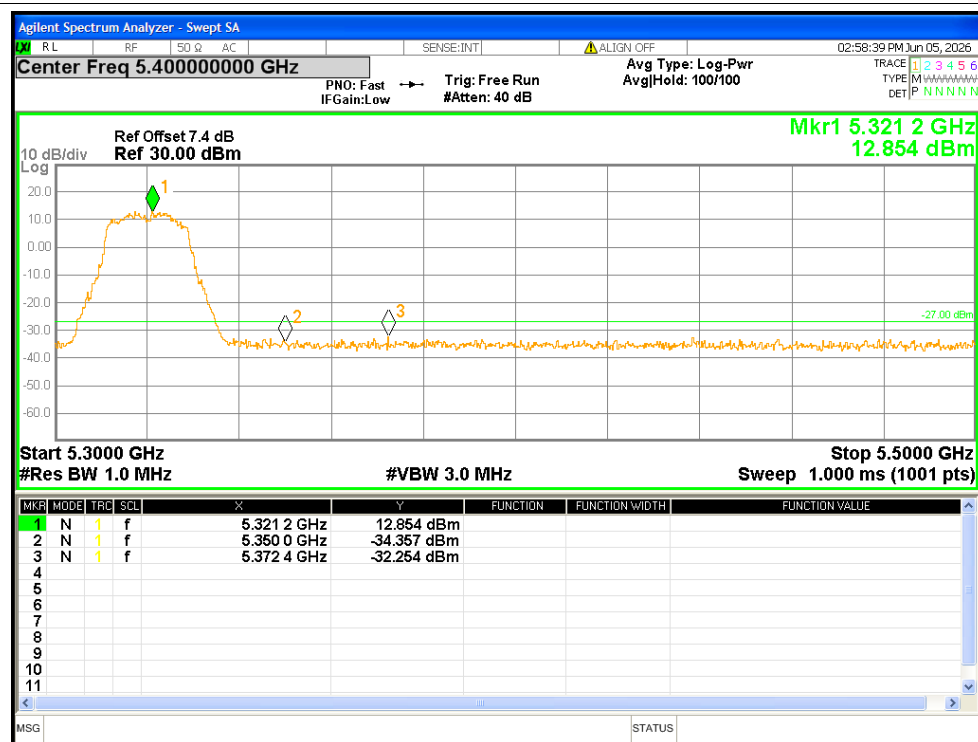
Band Edge NVNT n40 5310MHz High



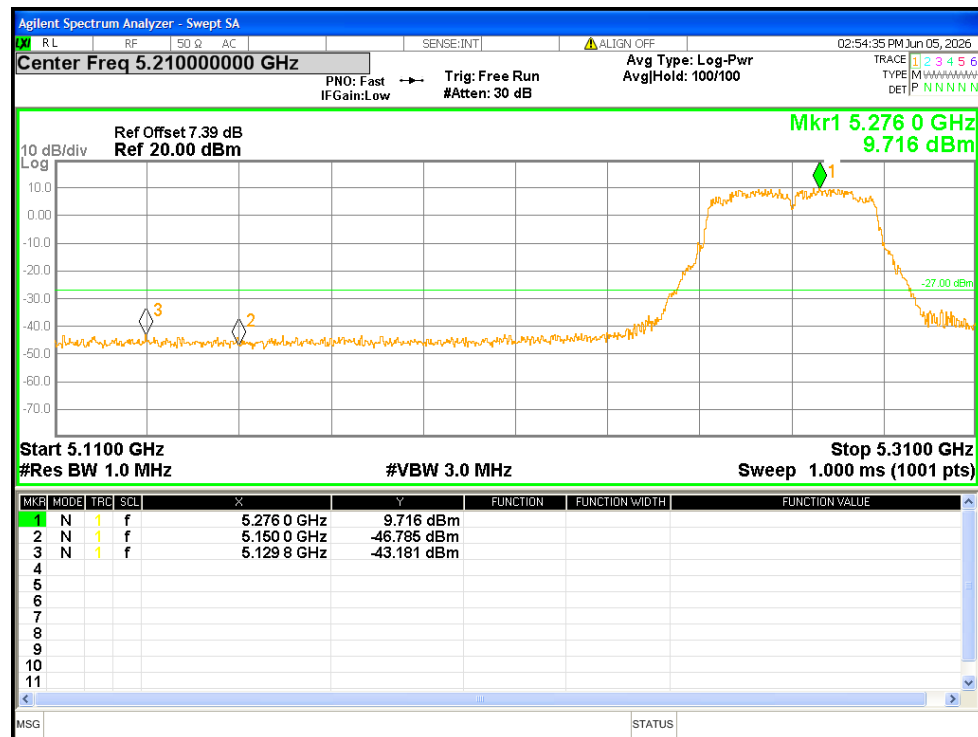
Band Edge NVNT ac20 5260MHz Low



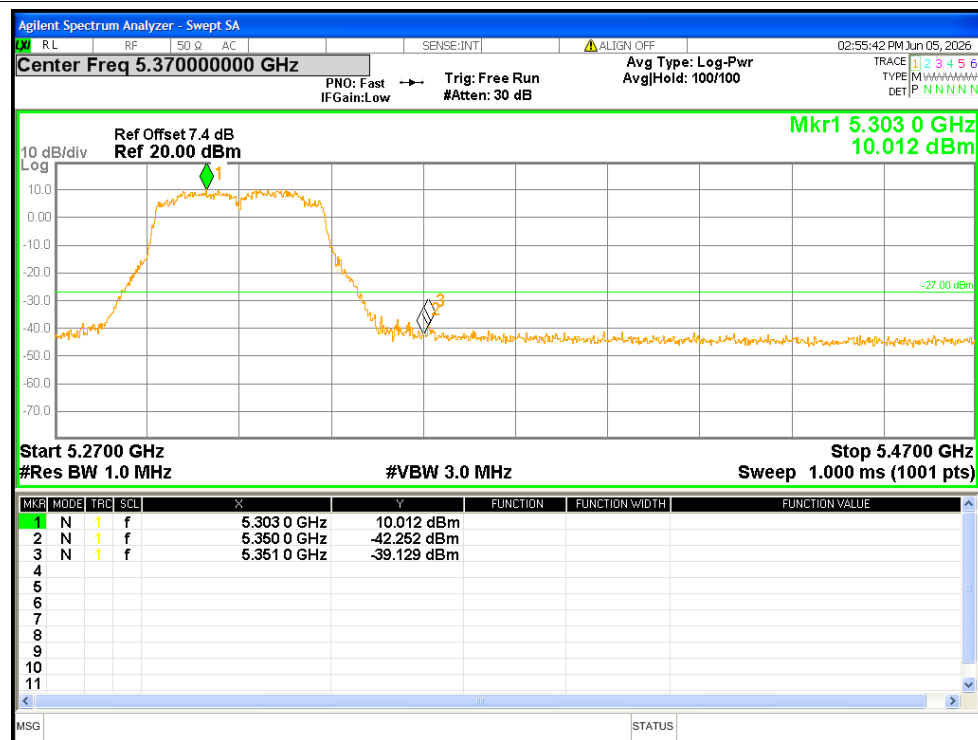
Band Edge NVNT ac20 5320MHz High



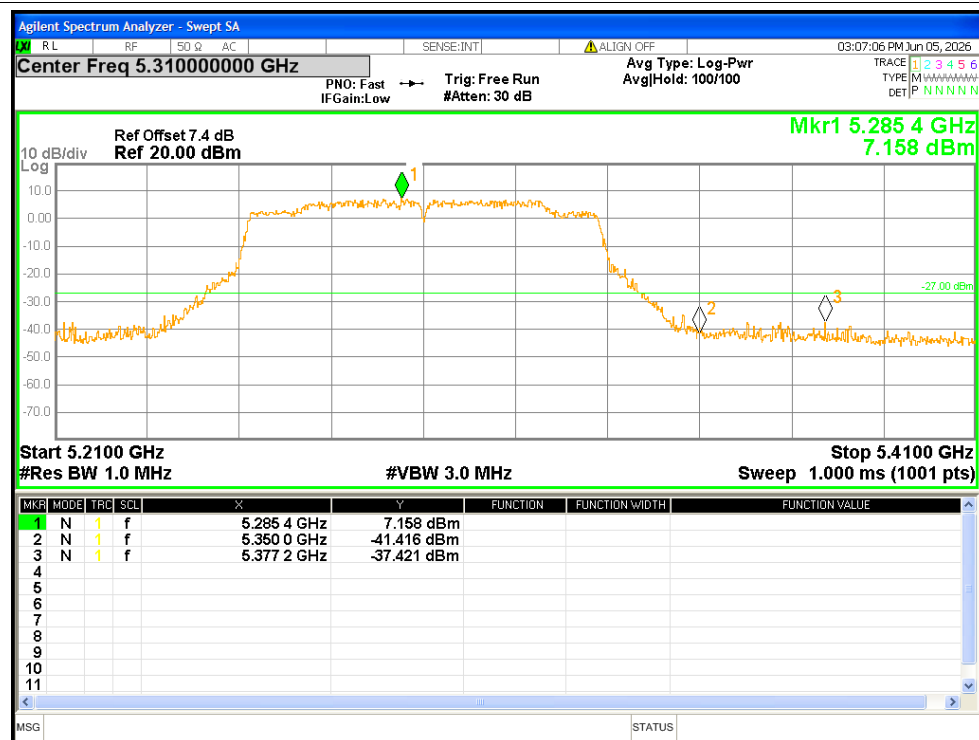
Band Edge NVNT ac40 5270MHz Low



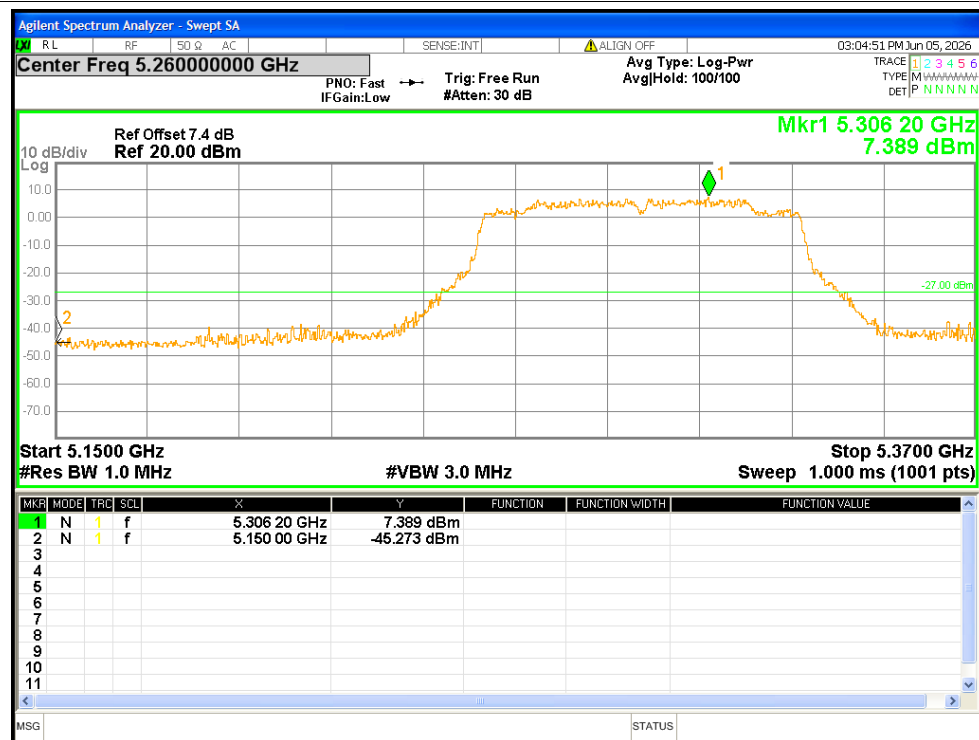
Band Edge NVNT ac40 5310MHz High



Band Edge NVNT ac80 5290MHz High



Band Edge NVNT ac80 5290MHz Low



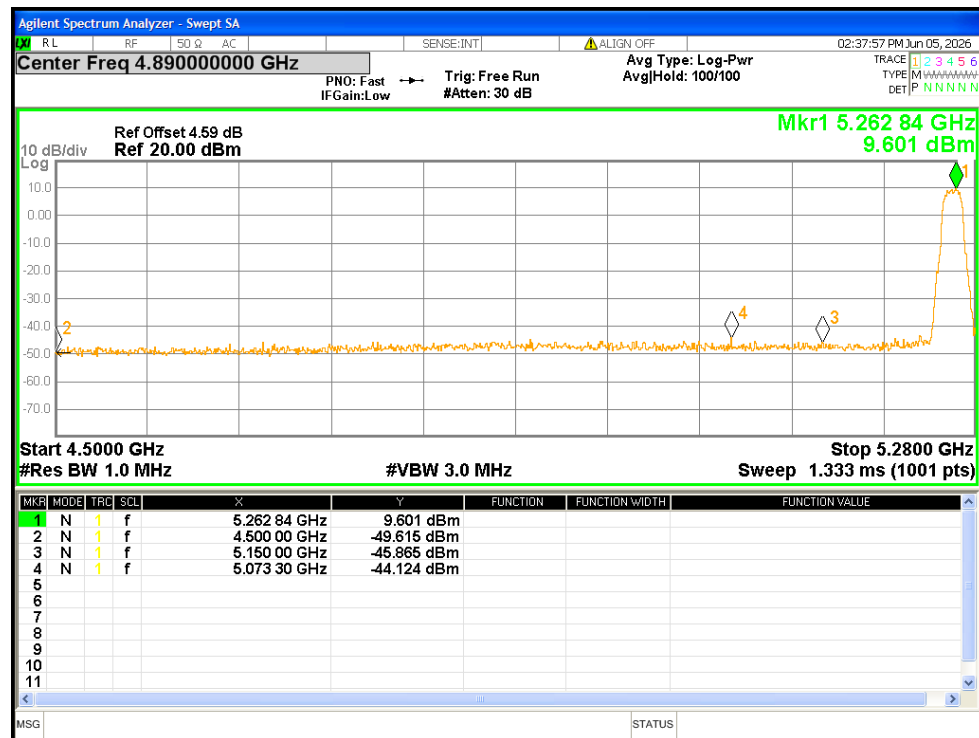
Restrict Band

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5260	4500	-49.61	2.8	0	48.42	Peak	<=68.2	Pass
a	5260	4500	-56.72	2.8	0.11	41.42	Average	<=54	Pass
a	5260	5073.3	-44.12	2.8	0	53.91	Peak	<=68.2	Pass
a	5260	4876.74	-54.89	2.8	0.11	43.25	Average	<=54	Pass
a	5260	5150	-46.12	2.8	0	51.91	Peak	<=68.2	Pass
a	5260	5150	-55.56	2.8	0.11	42.58	Average	<=54	Pass
a	5320	5350	-45.79	2.8	0	52.24	Peak	<=68.2	Pass
a	5320	5350	-54.29	2.8	0.1	43.84	Average	<=54	Pass
a	5320	5350.4	-41.21	2.8	0	56.82	Peak	<=68.2	Pass
a	5320	5354	-53.42	2.8	0.1	44.71	Average	<=54	Pass
a	5320	5460	-46.74	2.8	0	51.29	Peak	<=68.2	Pass
a	5320	5460	-55.76	2.8	0.1	42.37	Average	<=54	Pass
n20	5260	4500	-48.21	2.8	0	49.82	Peak	<=68.2	Pass
n20	5260	4500	-57.21	2.8	0.12	40.94	Average	<=54	Pass
n20	5260	4933.68	-44.82	2.8	0	53.21	Peak	<=68.2	Pass
n20	5260	4923.54	-54.57	2.8	0.12	43.58	Average	<=54	Pass
n20	5260	5150	-46.8	2.8	0	51.23	Peak	<=68.2	Pass
n20	5260	5150	-55.57	2.8	0.12	42.58	Average	<=54	Pass
n20	5320	5350	-46.22	2.8	0	51.81	Peak	<=68.2	Pass
n20	5320	5350	-54.97	2.8	0.12	43.18	Average	<=54	Pass
n20	5320	5351	-41.16	2.8	0	56.87	Peak	<=68.2	Pass
n20	5320	5353.6	-53.97	2.8	0.12	44.18	Average	<=54	Pass
n20	5320	5460	-48.86	2.8	0	49.17	Peak	<=68.2	Pass
n20	5320	5460	-55.83	2.8	0.12	42.32	Average	<=54	Pass
n40	5270	4500	-47.09	2.8	0	50.94	Peak	<=68.2	Pass
n40	5270	4500	-57.93	2.8	0.22	40.32	Average	<=54	Pass
n40	5270	5129.37	-42.92	2.8	0	55.11	Peak	<=68.2	Pass
n40	5270	4885.56	-54.93	2.8	0.22	43.32	Average	<=54	Pass
n40	5270	5150	-48.04	2.8	0	49.99	Peak	<=68.2	Pass
n40	5270	5150	-55.74	2.8	0.22	42.51	Average	<=54	Pass
n40	5310	5350	-45.03	2.8	0	53	Peak	<=68.2	Pass
n40	5310	5350	-53.34	2.8	0.21	44.9	Average	<=54	Pass
n40	5310	5352.6	-42.37	2.8	0	55.66	Peak	<=68.2	Pass
n40	5310	5350.2	-52.82	2.8	0.21	45.42	Average	<=54	Pass
n40	5310	5460	-47.15	2.8	0	50.88	Peak	<=68.2	Pass
n40	5310	5460	-56.2	2.8	0.21	42.04	Average	<=54	Pass
ac20	5260	4500	-48.16	2.8	0	49.87	Peak	<=68.2	Pass
ac20	5260	4500	-57.64	2.8	0.12	40.51	Average	<=54	Pass
ac20	5260	4789.38	-43.5	2.8	0	54.53	Peak	<=68.2	Pass

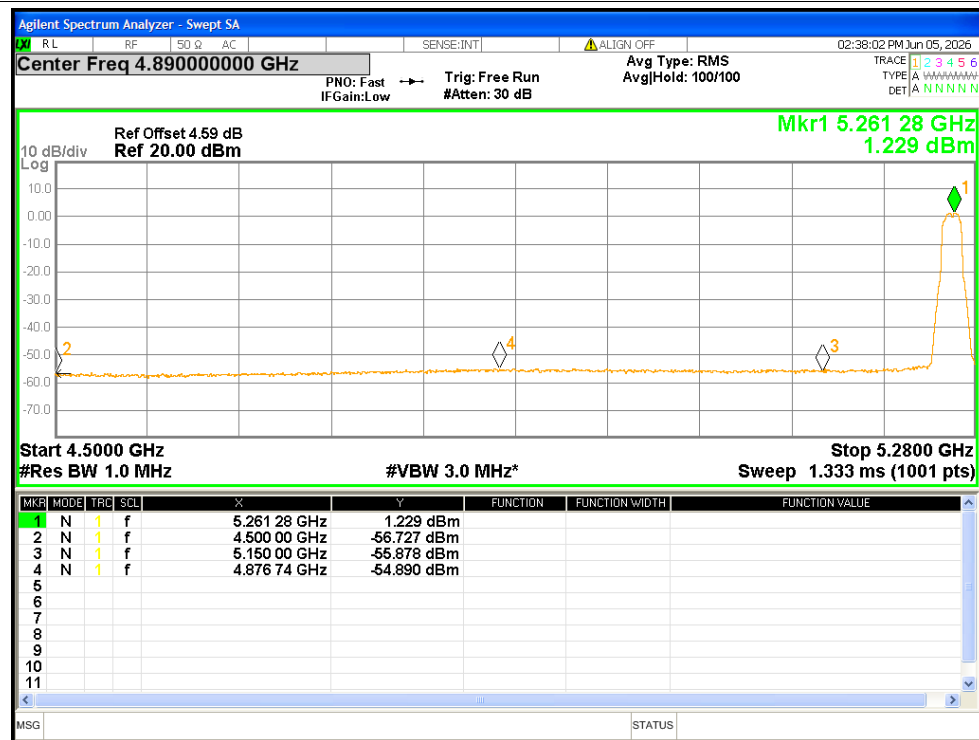
ac20	5260	4844.76	-54.89	2.8	0.12	43.26	Average	<=54	Pass
ac20	5260	5150	-48	2.8	0	50.03	Peak	<=68.2	Pass
ac20	5260	5150	-55.7	2.8	0.12	42.45	Average	<=54	Pass
ac20	5320	5350	-42.14	2.8	0	55.89	Peak	<=68.2	Pass
ac20	5320	5350	-54.23	2.8	0.12	43.92	Average	<=54	Pass
ac20	5320	5352.4	-40.85	2.8	0	57.18	Peak	<=68.2	Pass
ac20	5320	5361.6	-53.9	2.8	0.12	44.25	Average	<=54	Pass
ac20	5320	5460	-47.64	2.8	0	50.39	Peak	<=68.2	Pass
ac20	5320	5460	-55.62	2.8	0.12	42.53	Average	<=54	Pass
ac40	5270	4500	-48.27	2.8	0	49.76	Peak	<=68.2	Pass
ac40	5270	4500	-57.17	2.8	0.22	41.08	Average	<=54	Pass
ac40	5270	5010.3	-44.86	2.8	0	53.17	Peak	<=68.2	Pass
ac40	5270	4900.95	-55.11	2.8	0.22	43.14	Average	<=54	Pass
ac40	5270	5150	-47.13	2.8	0	50.9	Peak	<=68.2	Pass
ac40	5270	5150	-55.73	2.8	0.22	42.52	Average	<=54	Pass
ac40	5310	5350	-45.1	2.8	0	52.93	Peak	<=68.2	Pass
ac40	5310	5350	-53.85	2.8	0.23	44.41	Average	<=54	Pass
ac40	5310	5352	-41.22	2.8	0	56.81	Peak	<=68.2	Pass
ac40	5310	5350.6	-53.37	2.8	0.23	44.89	Average	<=54	Pass
ac40	5310	5460	-47.41	2.8	0	50.62	Peak	<=68.2	Pass
ac40	5310	5460	-56.08	2.8	0.23	42.18	Average	<=54	Pass
ac80	5290	5350	-43.99	2.8	0	54.04	Peak	<=68.2	Pass
ac80	5290	5350	-53.63	2.8	0.45	44.85	Average	<=54	Pass
ac80	5290	5365.5	-40.32	2.8	0	57.71	Peak	<=68.2	Pass
ac80	5290	5353.75	-52.76	2.8	0.45	45.72	Average	<=54	Pass
ac80	5290	5460	-48.82	2.8	0	49.21	Peak	<=68.2	Pass
ac80	5290	5460	-55.91	2.8	0.45	42.57	Average	<=54	Pass
ac80	5290	4500	-50.06	2.8	0	47.97	Peak	<=68.2	Pass
ac80	5290	4500	-57.42	2.8	0.45	41.06	Average	<=54	Pass
ac80	5290	4899.33	-45.07	2.8	0	52.96	Peak	<=68.2	Pass
ac80	5290	4865.4	-54.87	2.8	0.45	43.61	Average	<=54	Pass
ac80	5290	5150	-48.43	2.8	0	49.6	Peak	<=68.2	Pass
ac80	5290	5150	-55.75	2.8	0.45	42.73	Average	<=54	Pass

Test Graphs

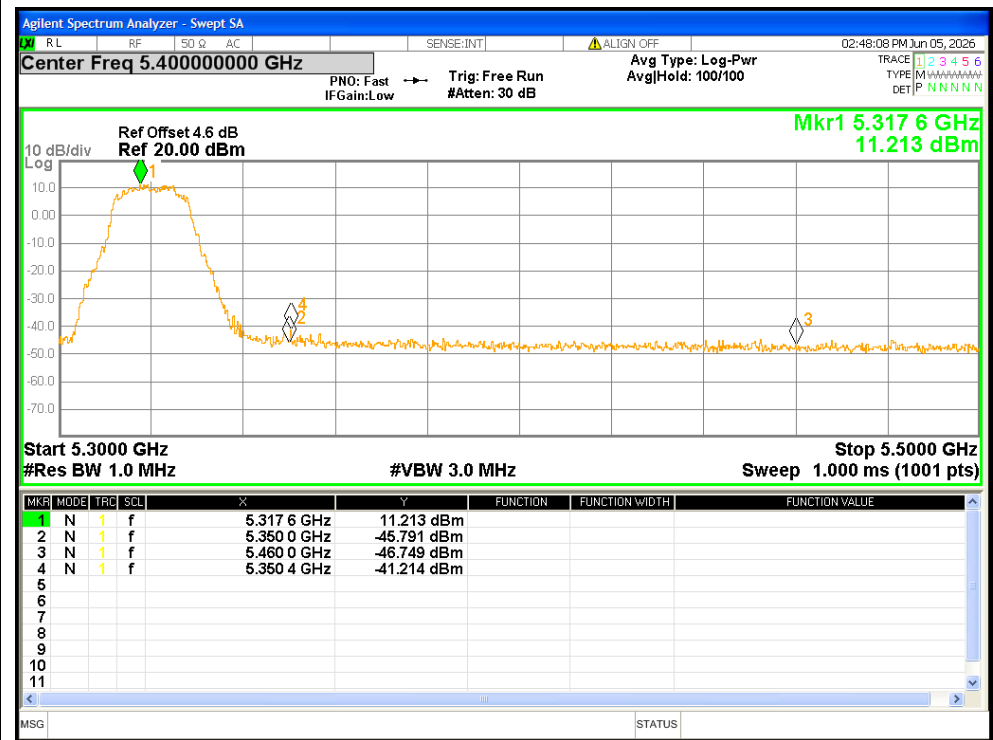
Restrict Band NVNT a 5260MHz Peak



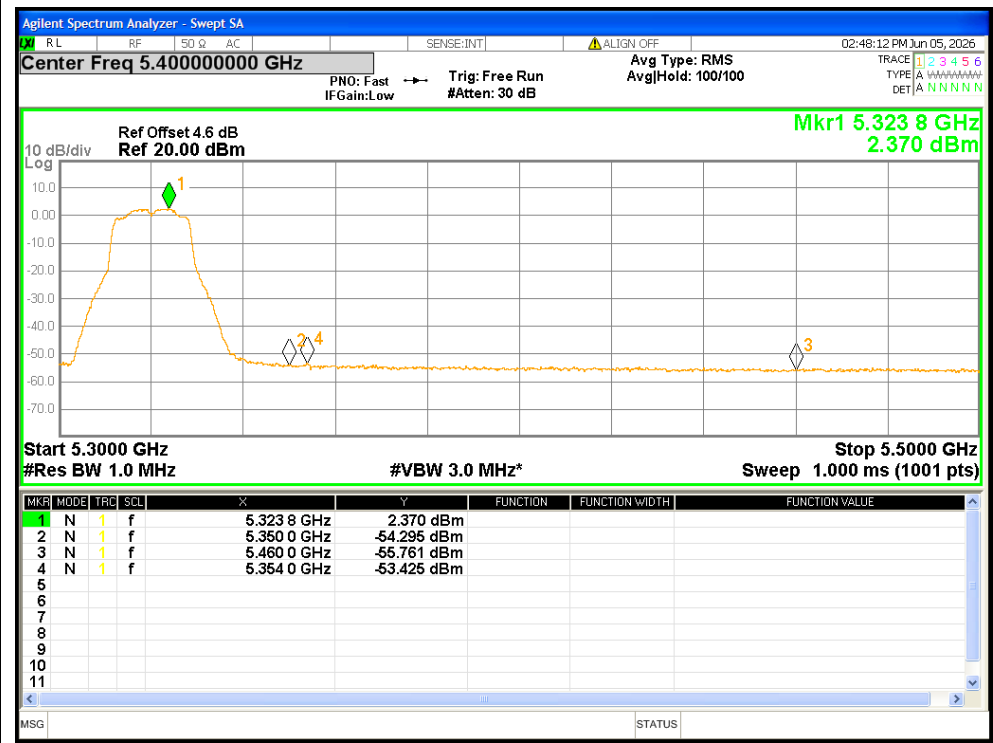
Restrict Band NVNT a 5260MHz Average



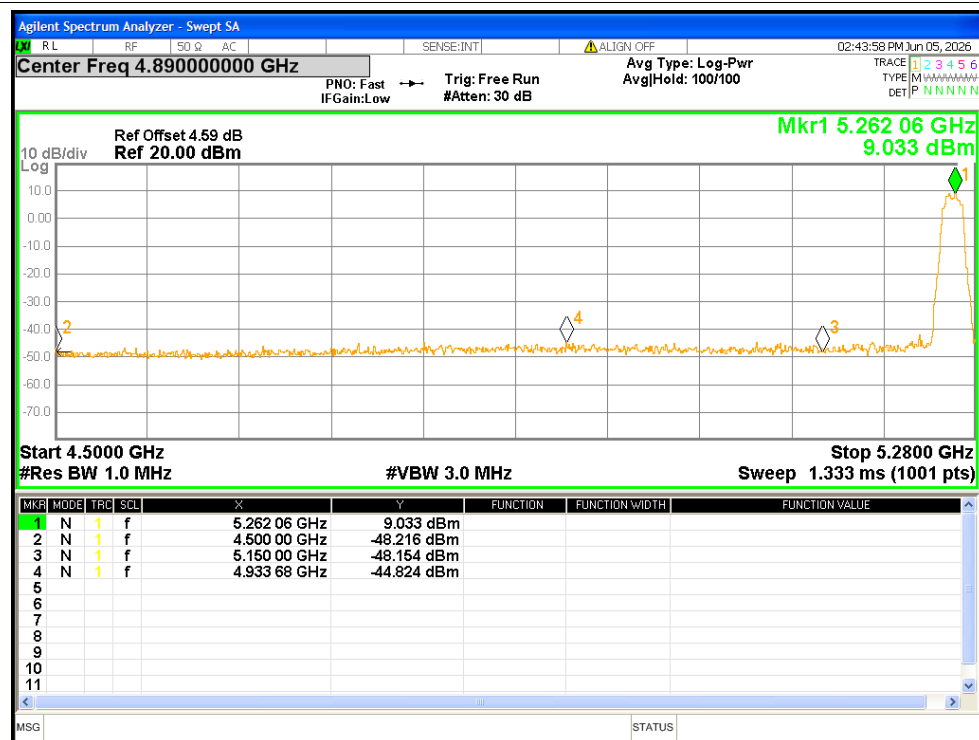
Restrict Band NVNT a 5320MHz Peak



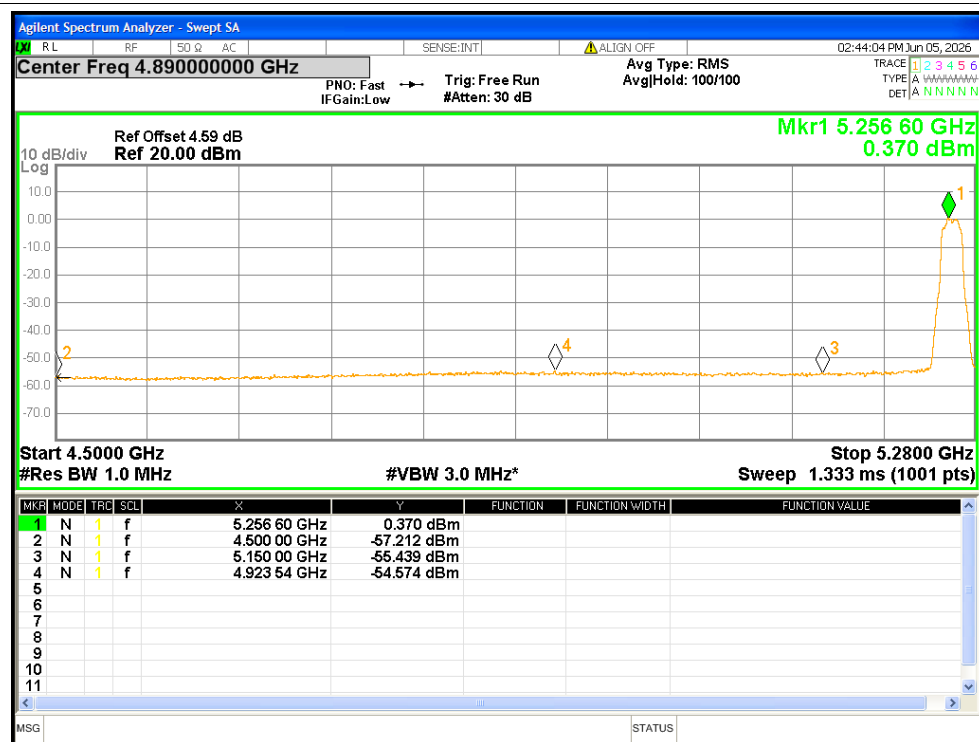
Restrict Band NVNT a 5320MHz Average



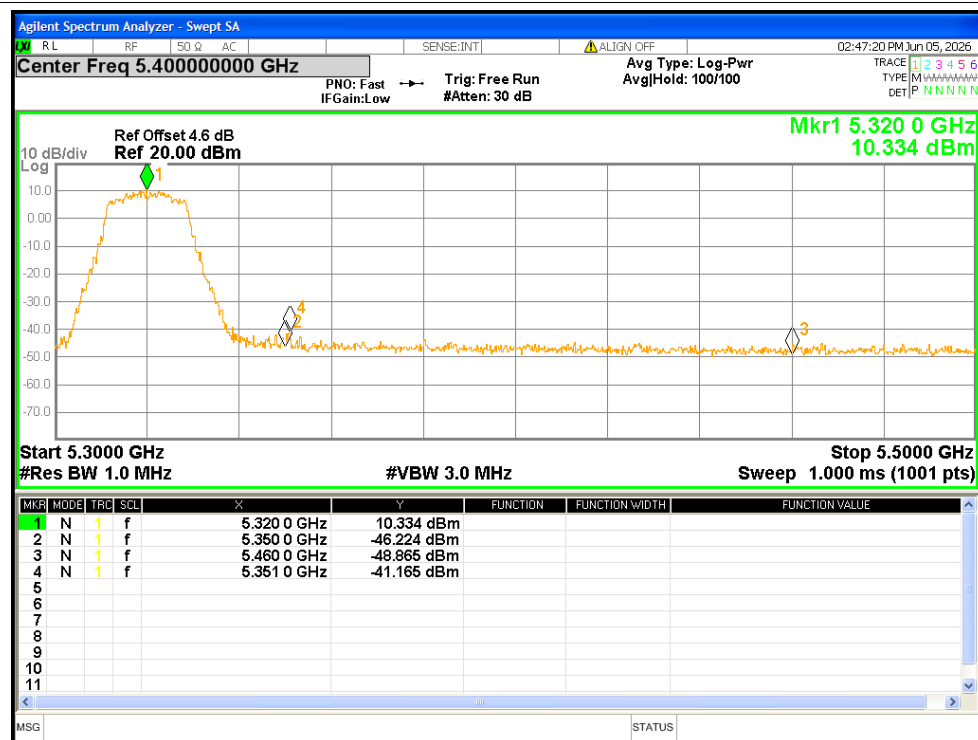
Restrict Band NVNT n20 5260MHz Peak



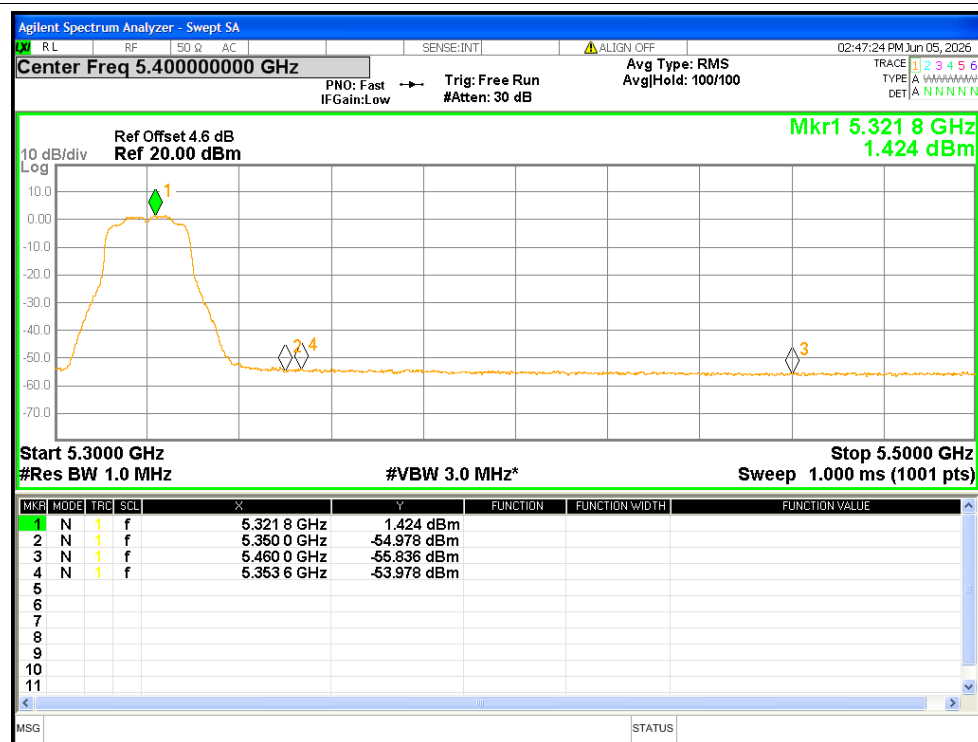
Restrict Band NVNT n20 5260MHz Average



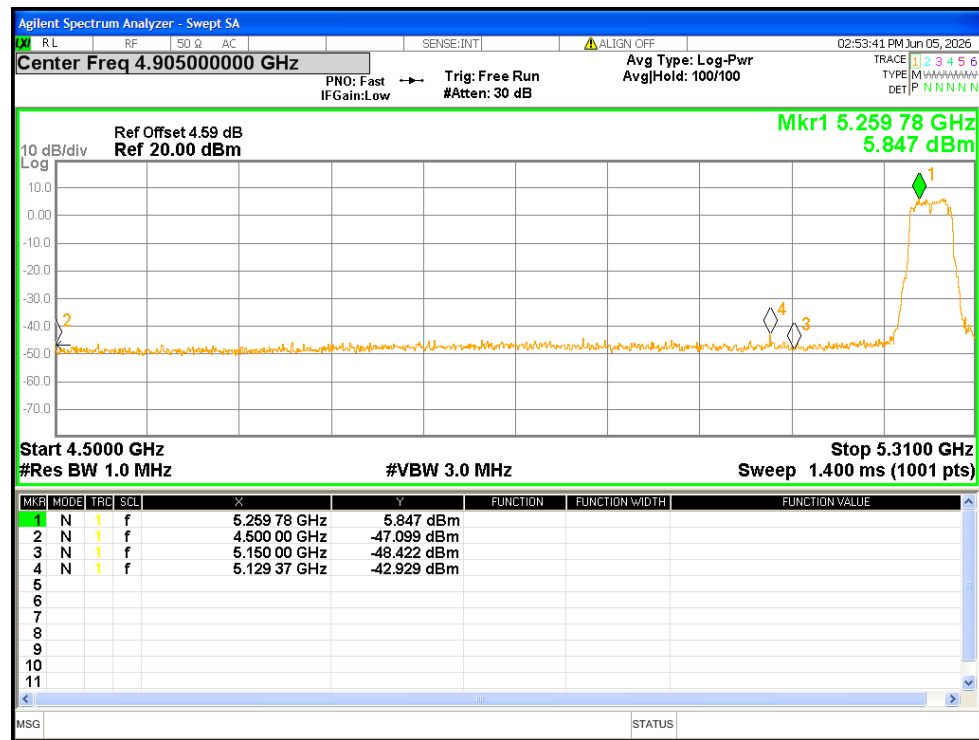
Restrict Band NVNT n20 5320MHz Peak



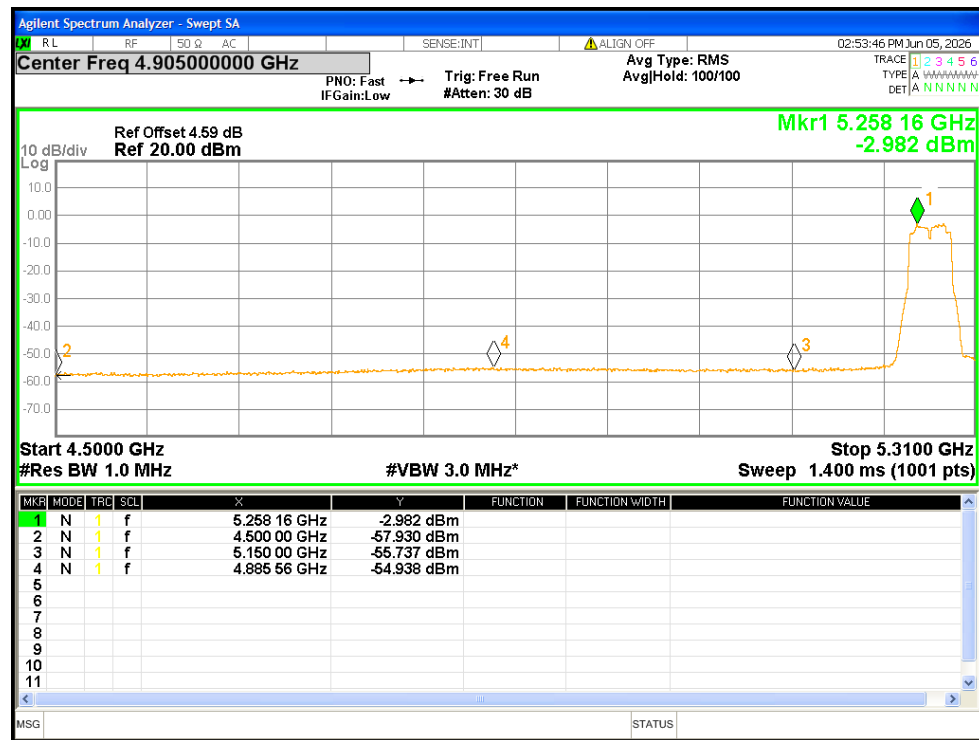
Restrict Band NVNT n20 5320MHz Average



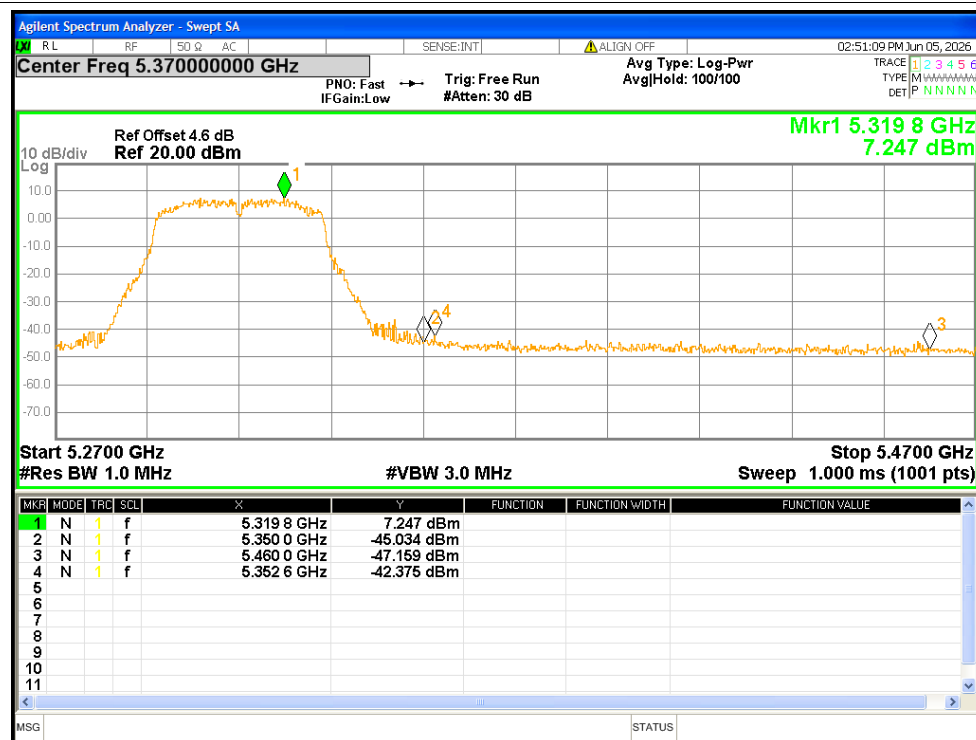
Restrict Band NVNT n40 5270MHz Peak



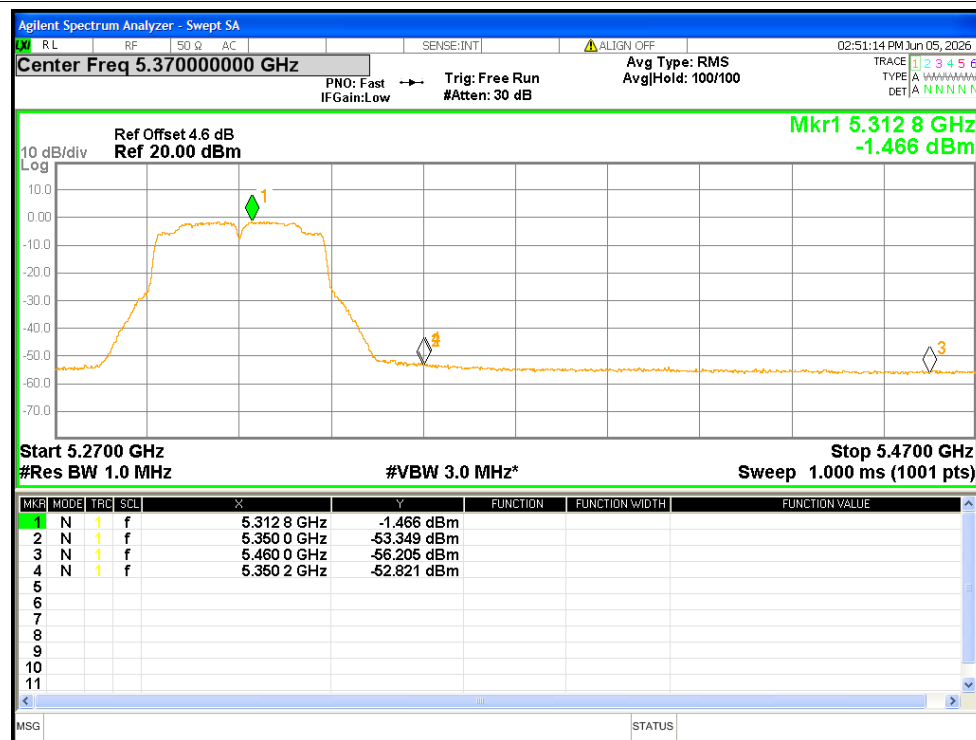
Restrict Band NVNT n40 5270MHz Average



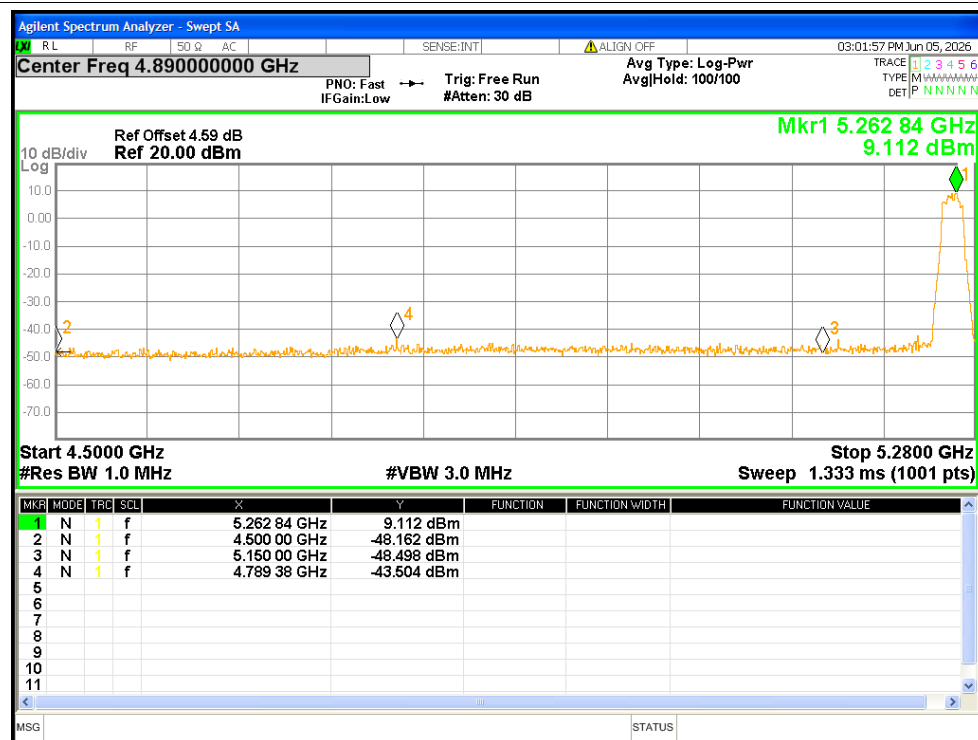
Restrict Band NVNT n40 5310MHz Peak



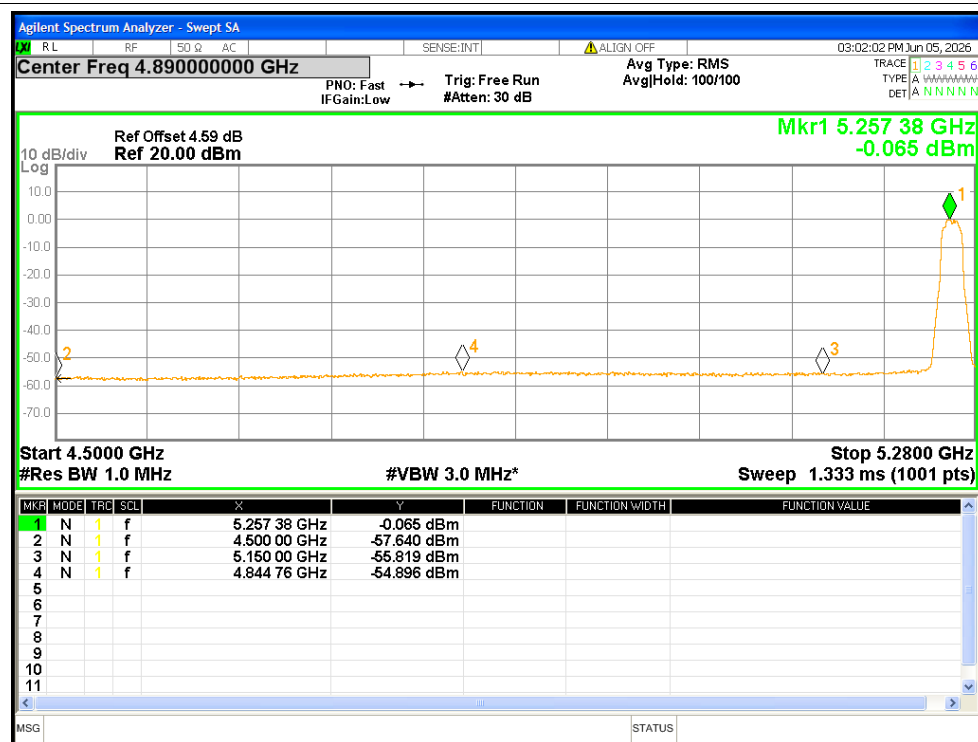
Restrict Band NVNT n40 5310MHz Average



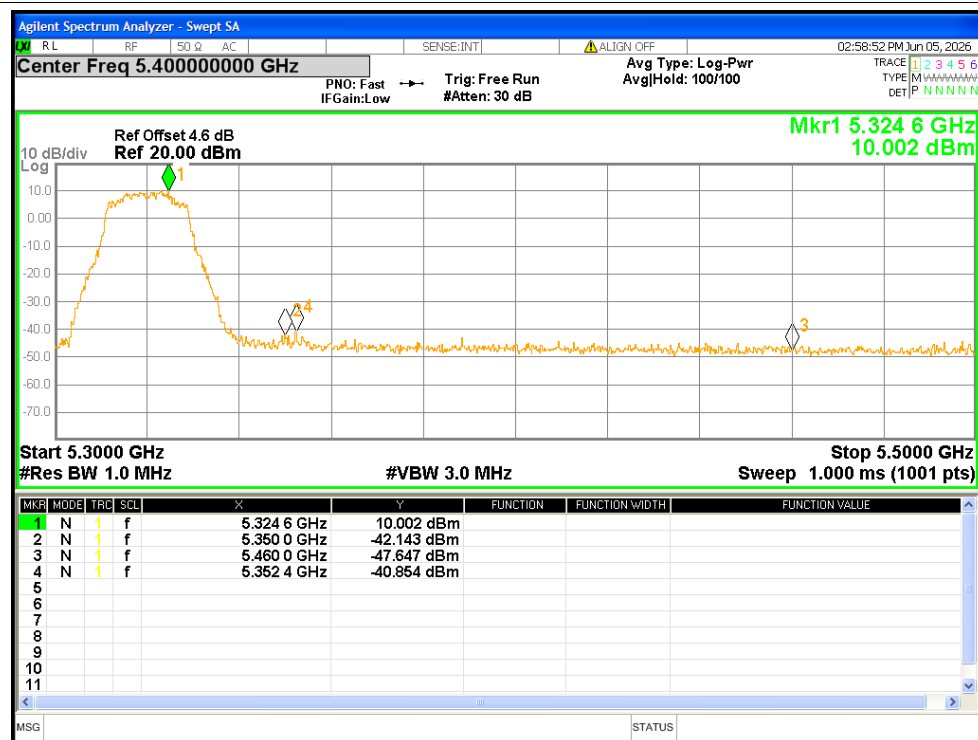
Restrict Band NVNT ac20 5260MHz Peak



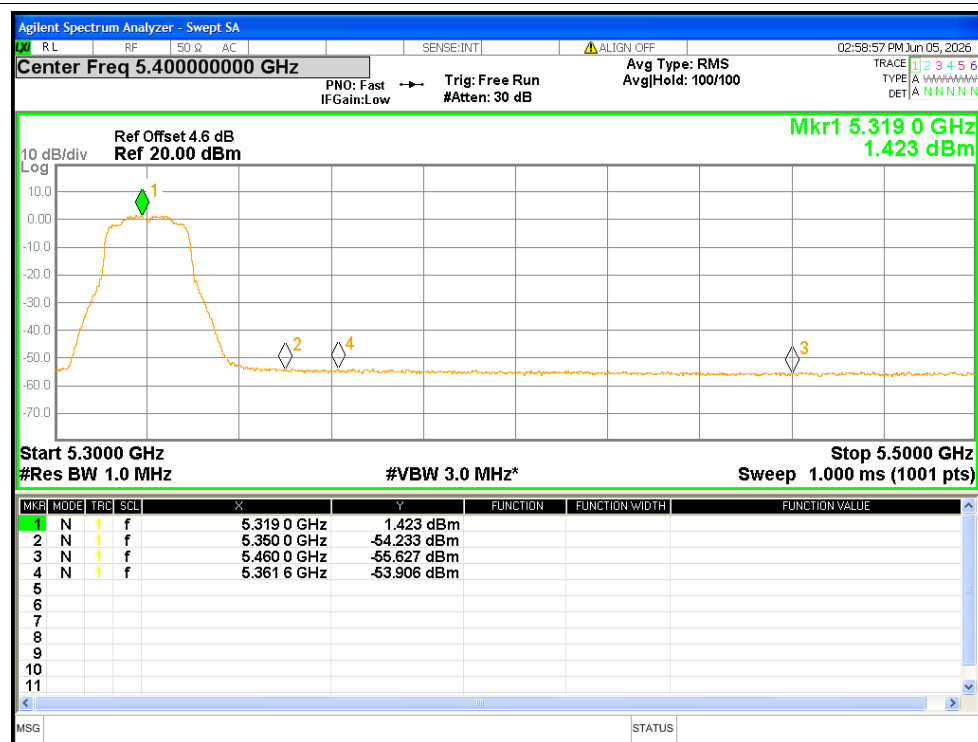
Restrict Band NVNT ac20 5260MHz Average



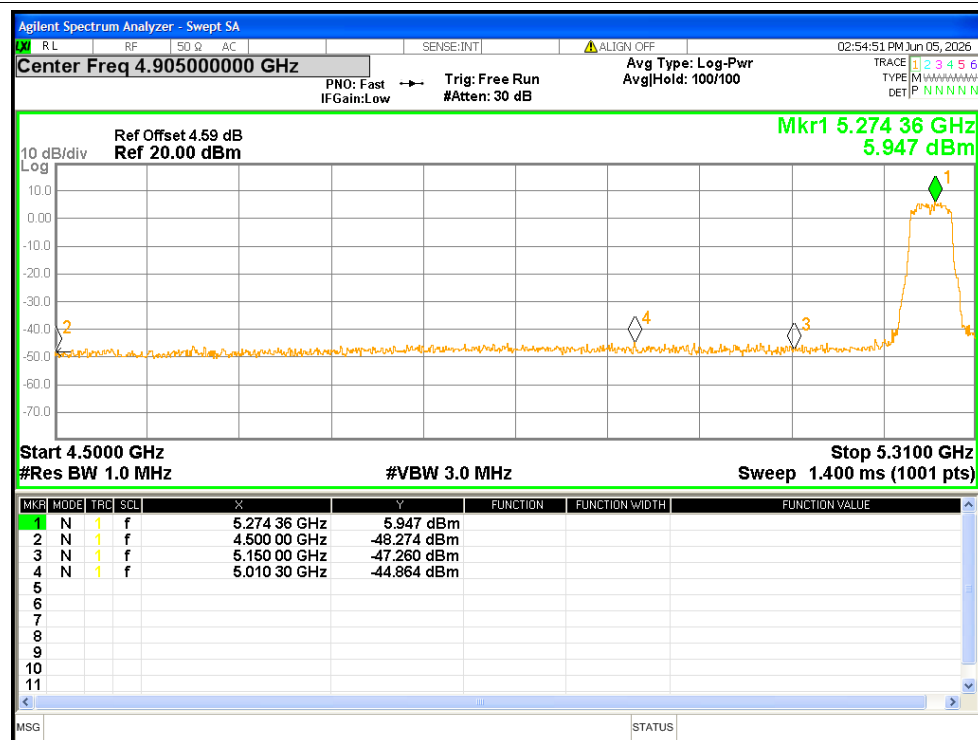
Restrict Band NVNT ac20 5320MHz Peak



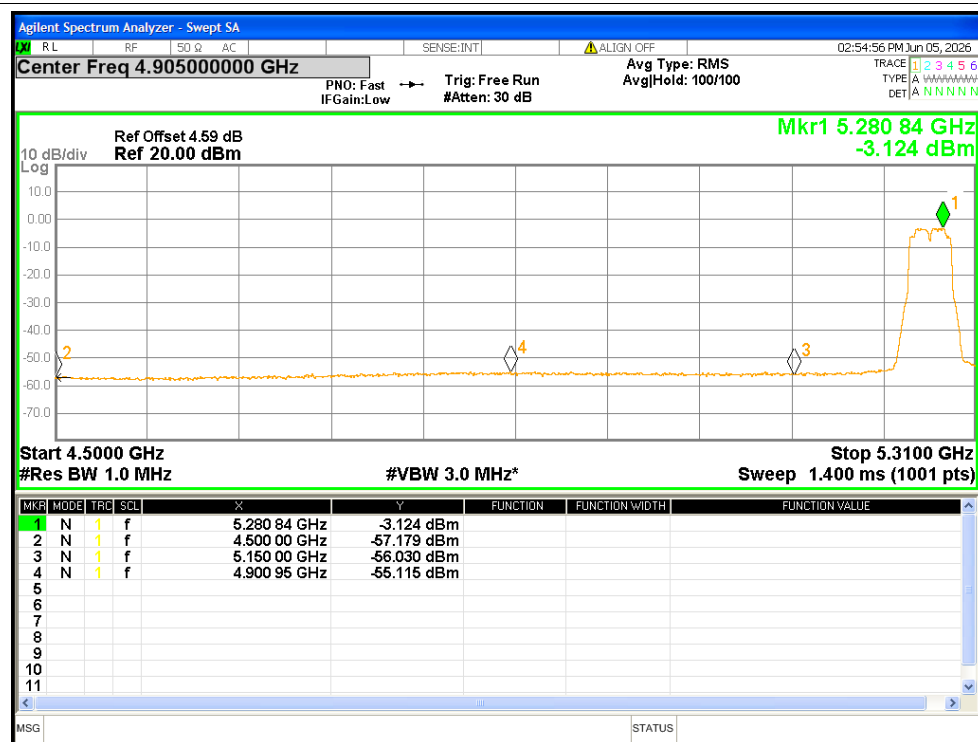
Restrict Band NVNT ac20 5320MHz Average



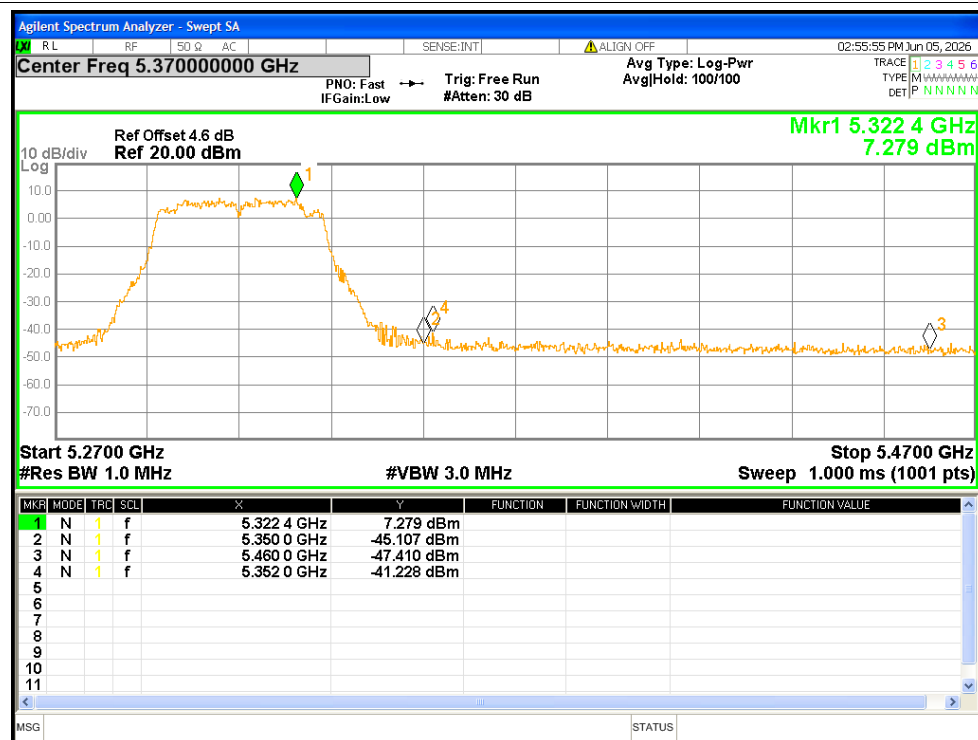
Restrict Band NVNT ac40 5270MHz Peak



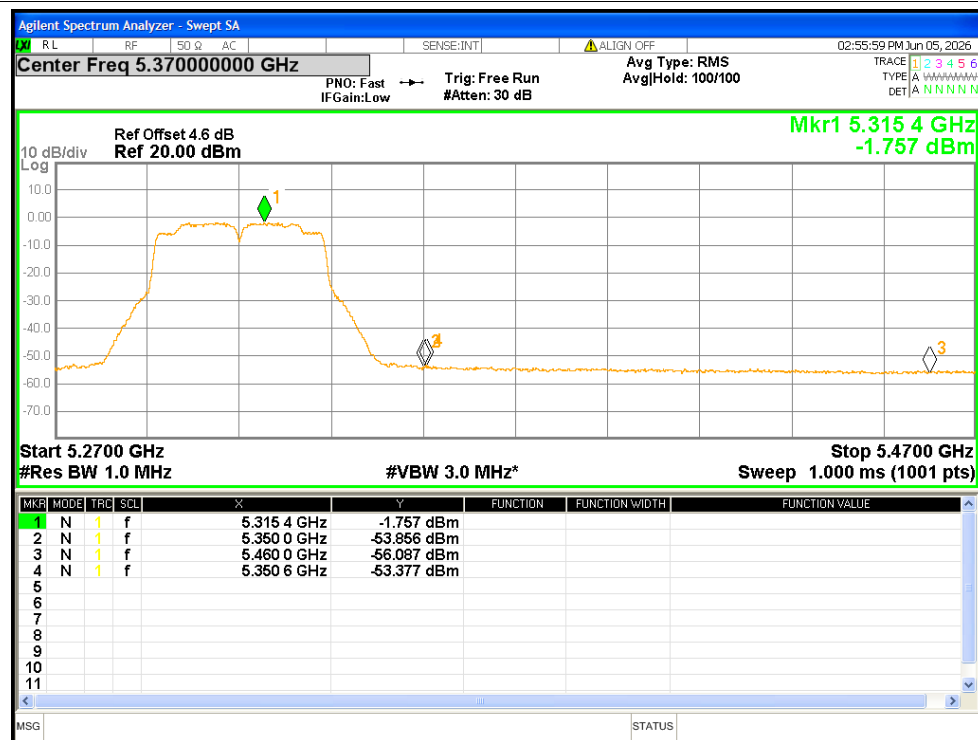
Restrict Band NVNT ac40 5270MHz Average



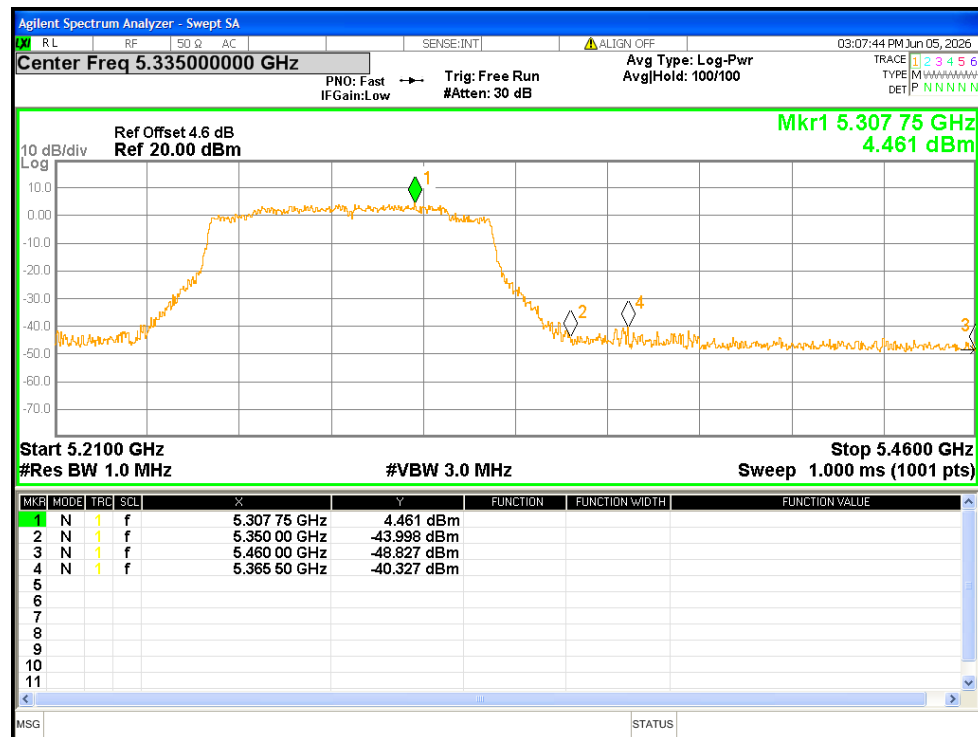
Restrict Band NVNT ac40 5310MHz Peak



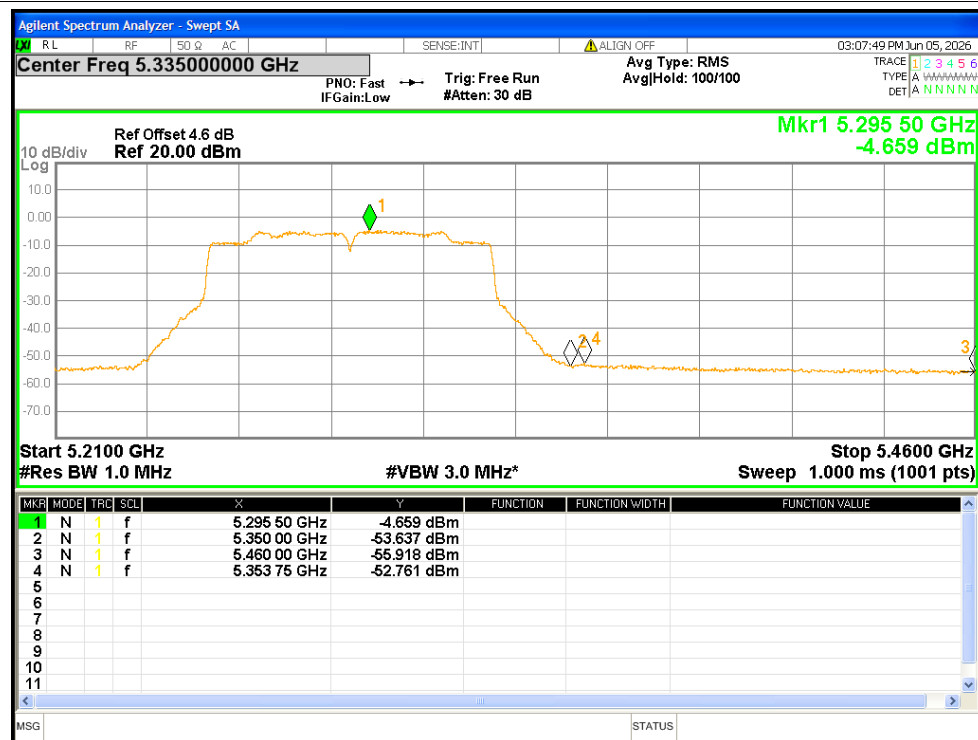
Restrict Band NVNT ac40 5310MHz Average



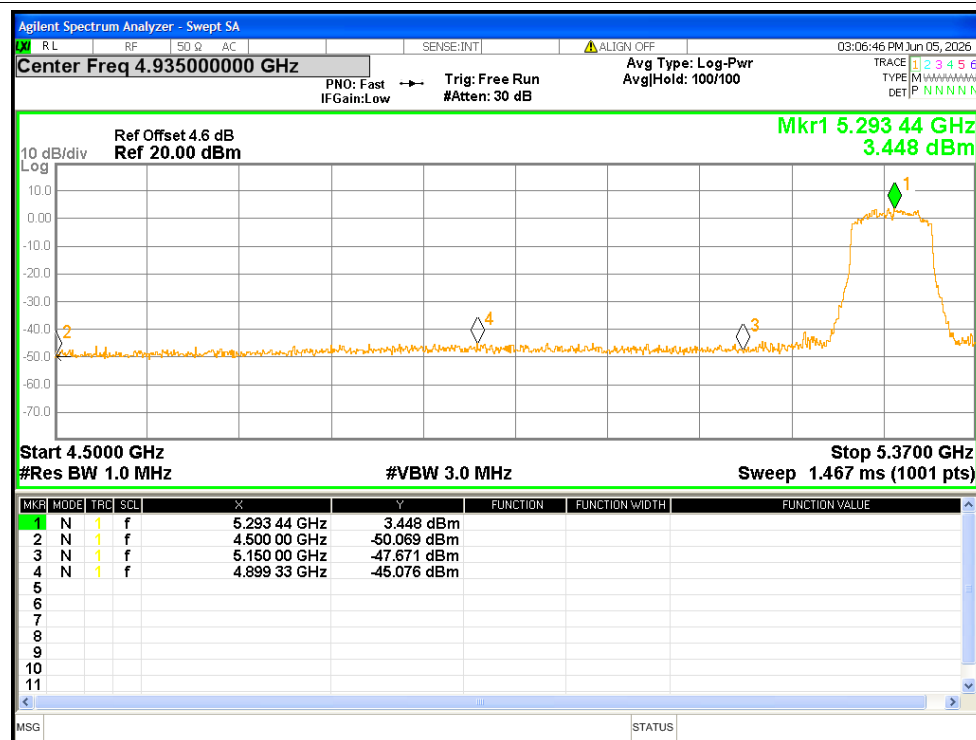
Restrict Band NVNT ac80 5290MHz Peak



Restrict Band NVNT ac80 5290MHz Average



Restrict Band NVNT ac80 5290MHz Peak



Restrict Band NVNT ac80 5290MHz Average

