

FCC Appendix RF Test Data for UNII-2C

FCC ID : 2BG9Y-MODELXXXPXXX

Company : Hyatta Digital Technology Co., Ltd.

EUT : Portable Data Terminal

Model Number : Model 7

Report No. : CTA26052902020

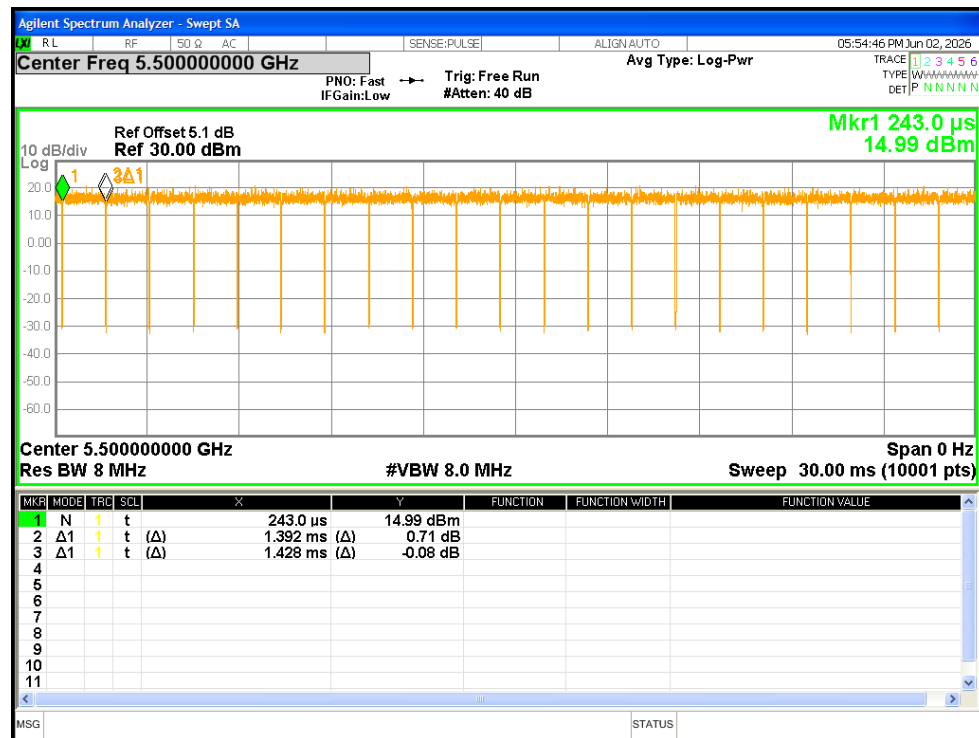
Reviewed By : Eric Wang

Duty Cycle

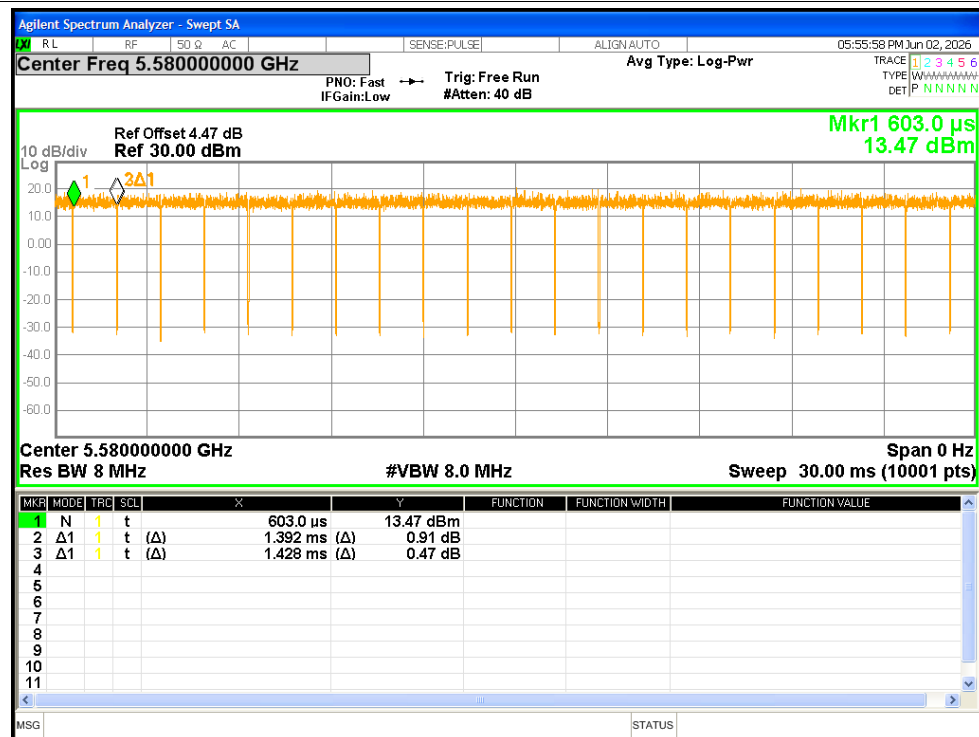
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Max Variation (%)
NVNT	a	5500	1.392	1.428	97.48	0.11	0.72	0.19
NVNT	a	5580	1.392	1.428	97.48	0.11	0.72	0.18
NVNT	a	5700	1.392	1.428	97.48	0.11	0.72	0.19
NVNT	n20	5500	1.3	1.334	97.45	0.11	0.77	0.15
NVNT	n20	5580	1.3	1.336	97.31	0.12	0.77	0.19
NVNT	n20	5700	1.3	1.336	97.31	0.12	0.77	0.16
NVNT	n40	5510	0.648	0.682	95.01	0.22	1.54	0.16
NVNT	n40	5550	0.648	0.682	95.01	0.22	1.54	0.15
NVNT	n40	5670	0.648	0.682	95.01	0.22	1.54	0.16
NVNT	ac20	5500	1.312	1.348	97.33	0.12	0.76	0.17
NVNT	ac20	5580	1.314	1.348	97.48	0.11	0.76	0.17
NVNT	ac20	5700	1.312	1.348	97.33	0.12	0.76	0.24
NVNT	ac40	5510	0.652	0.688	94.77	0.23	1.53	0.23
NVNT	ac40	5550	0.652	0.686	95.04	0.22	1.53	0.17
NVNT	ac40	5670	0.652	0.688	94.77	0.23	1.53	0.19
NVNT	ac80	5530	0.324	0.358	90.5	0.43	3.09	0.21
NVNT	ac80	5610	0.324	0.358	90.5	0.43	3.09	0.19

Test Graphs

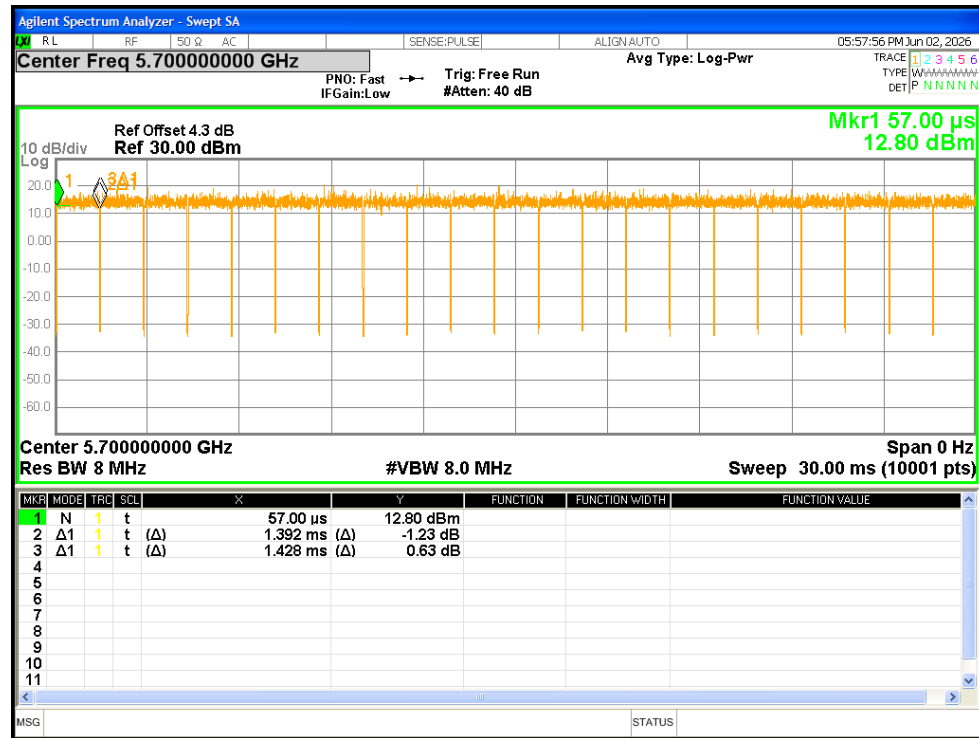
Duty Cycle NVNT a 5500MHz



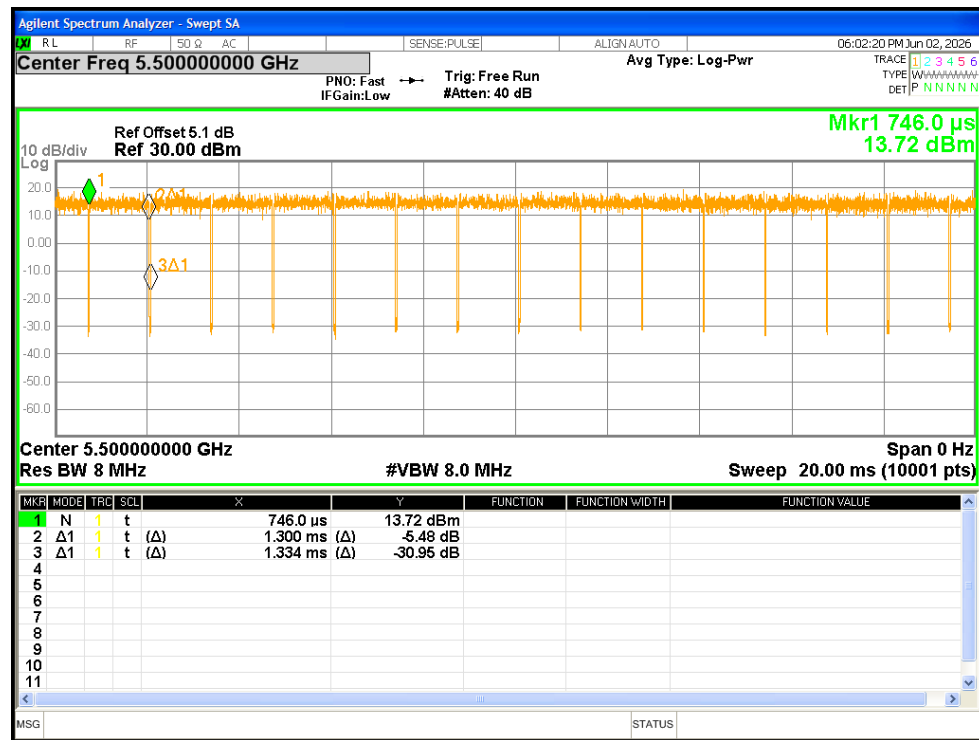
Duty Cycle NVNT a 5580MHz



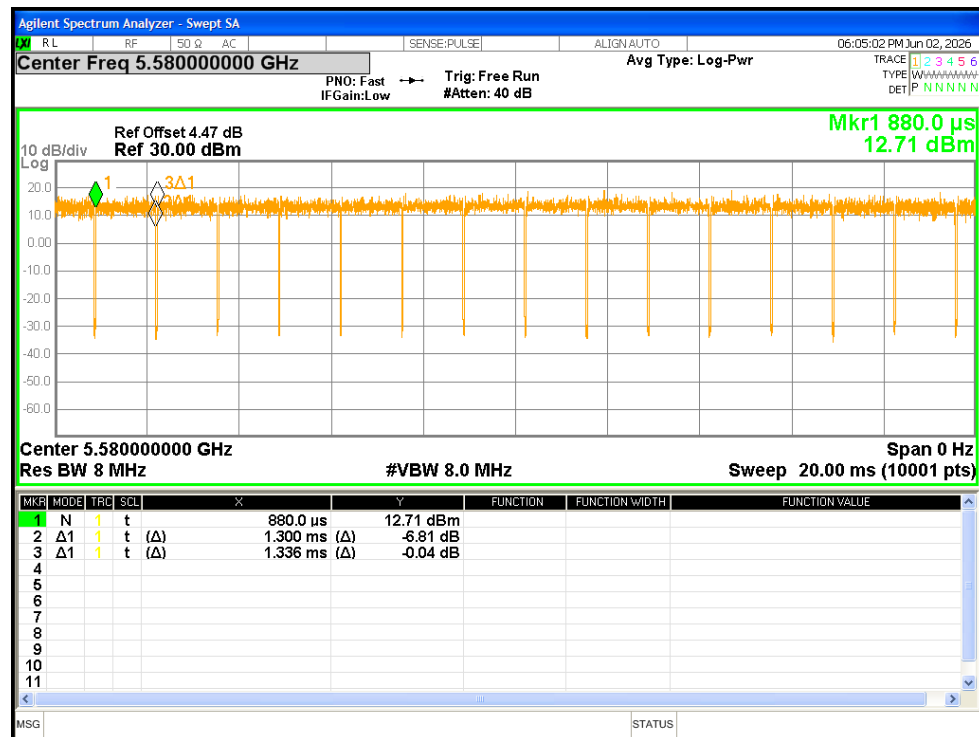
Duty Cycle NVNT a 5700MHz



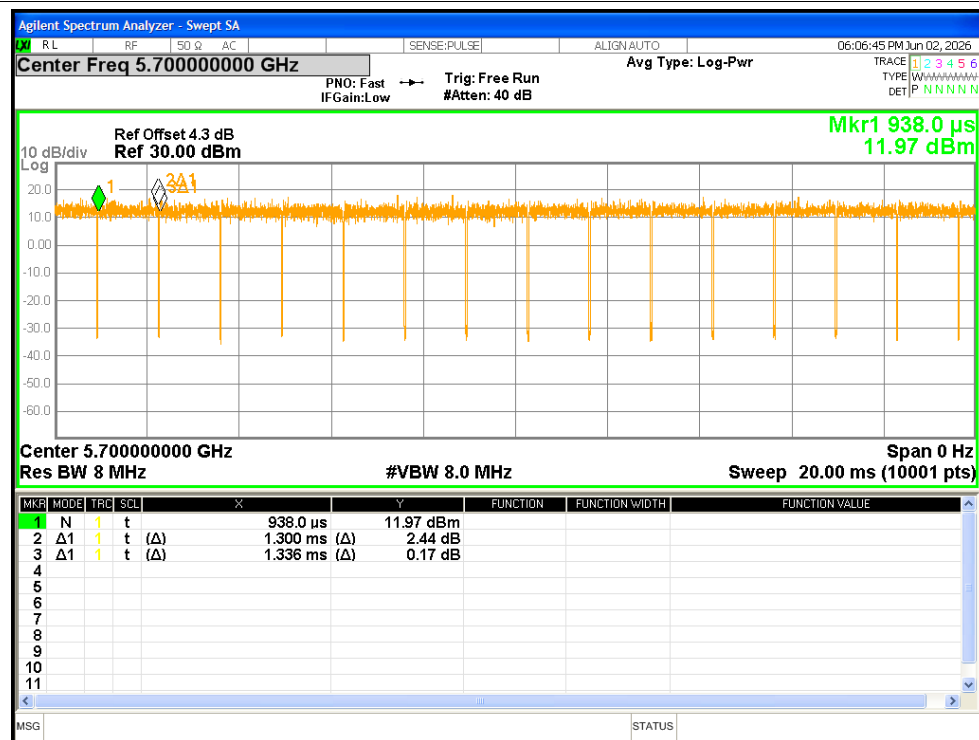
Duty Cycle NVNT n20 5500MHz



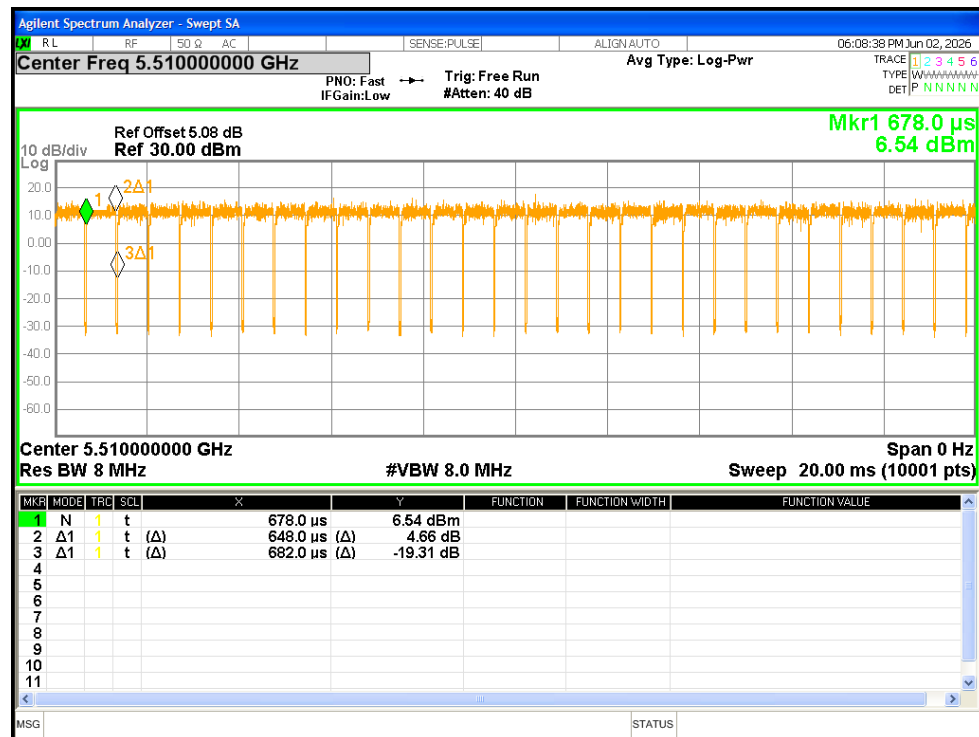
Duty Cycle NVNT n20 5580MHz



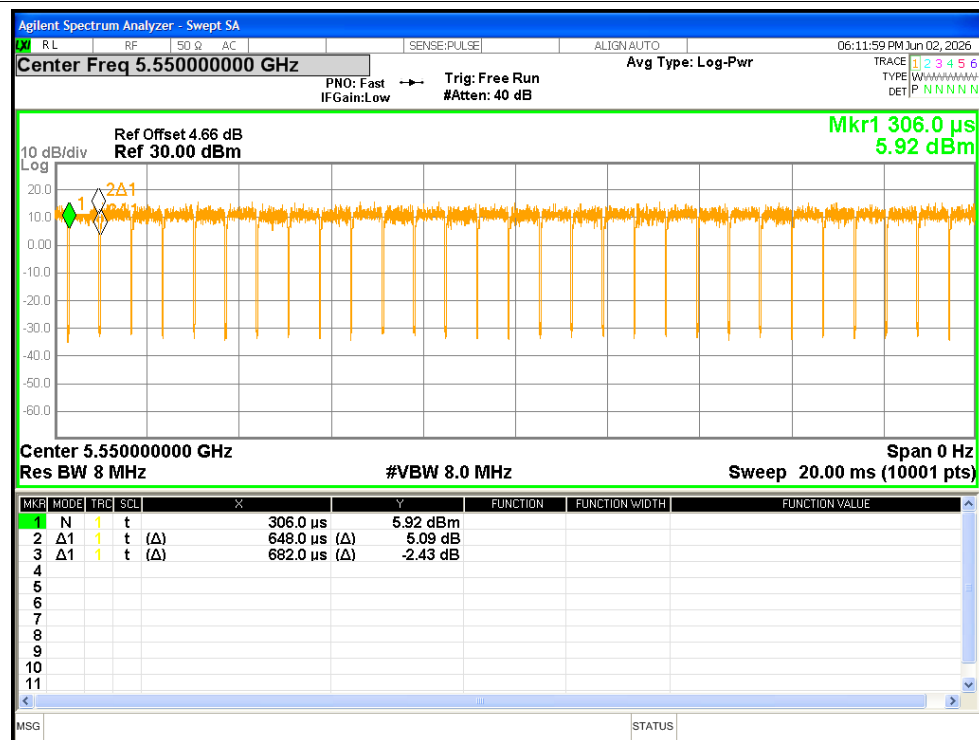
Duty Cycle NVNT n20 5700MHz



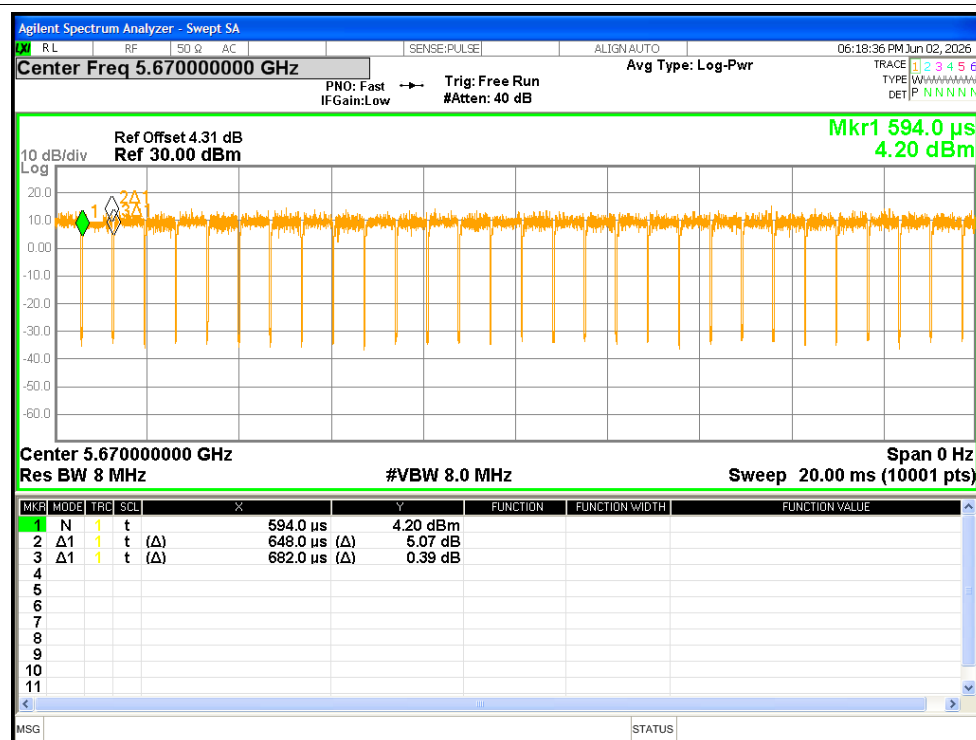
Duty Cycle NVNT n40 5510MHz



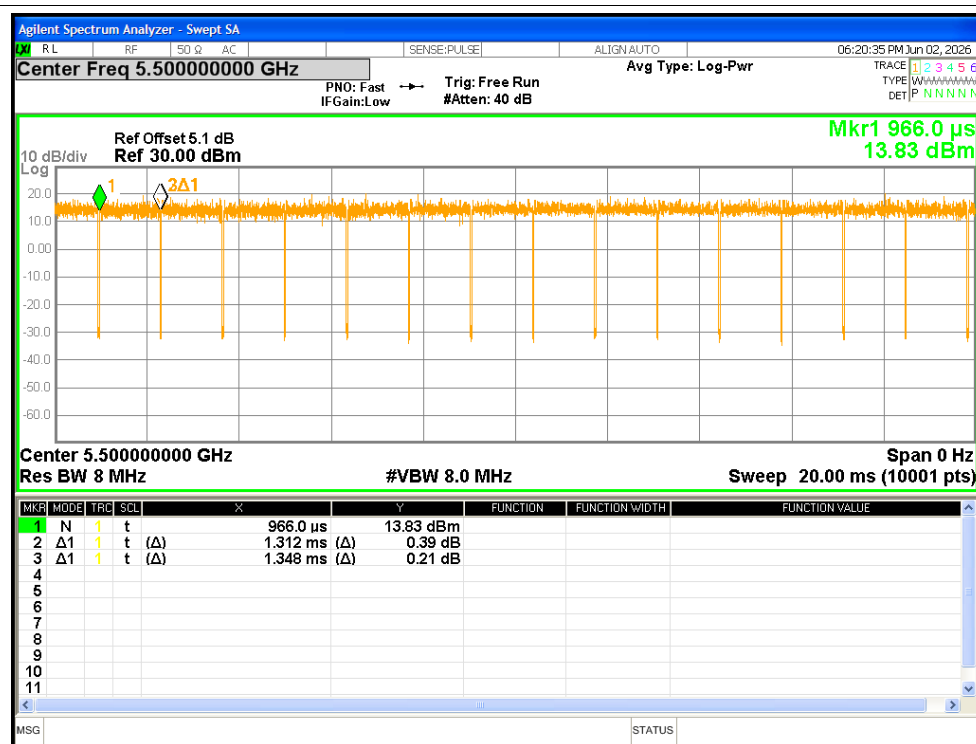
Duty Cycle NVNT n40 5550MHz



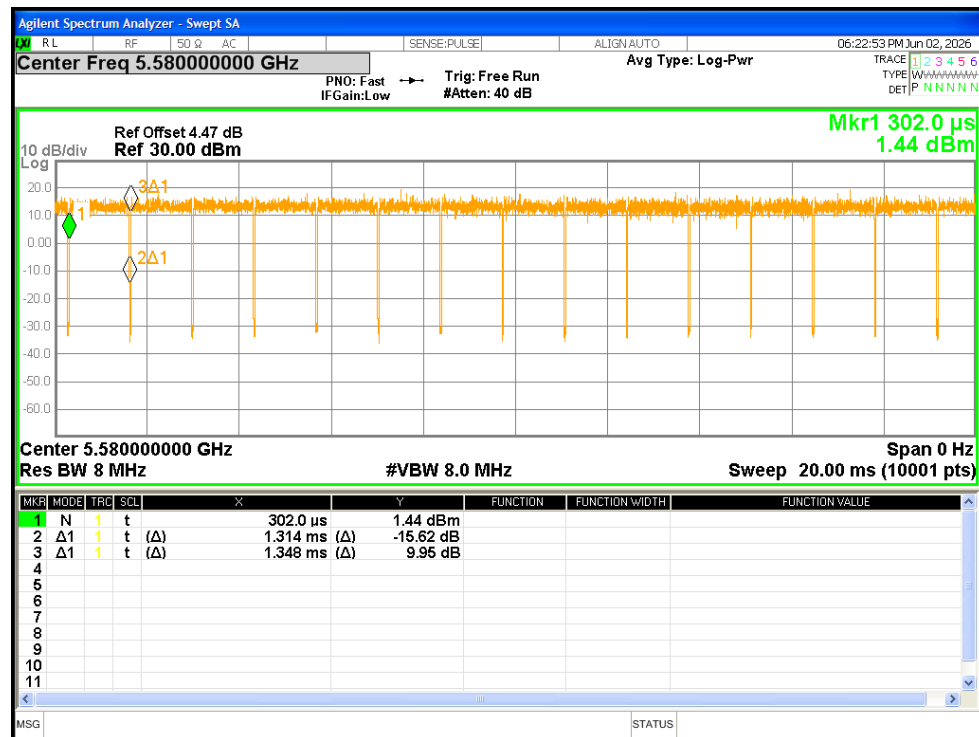
Duty Cycle NVNT n40 5670MHz



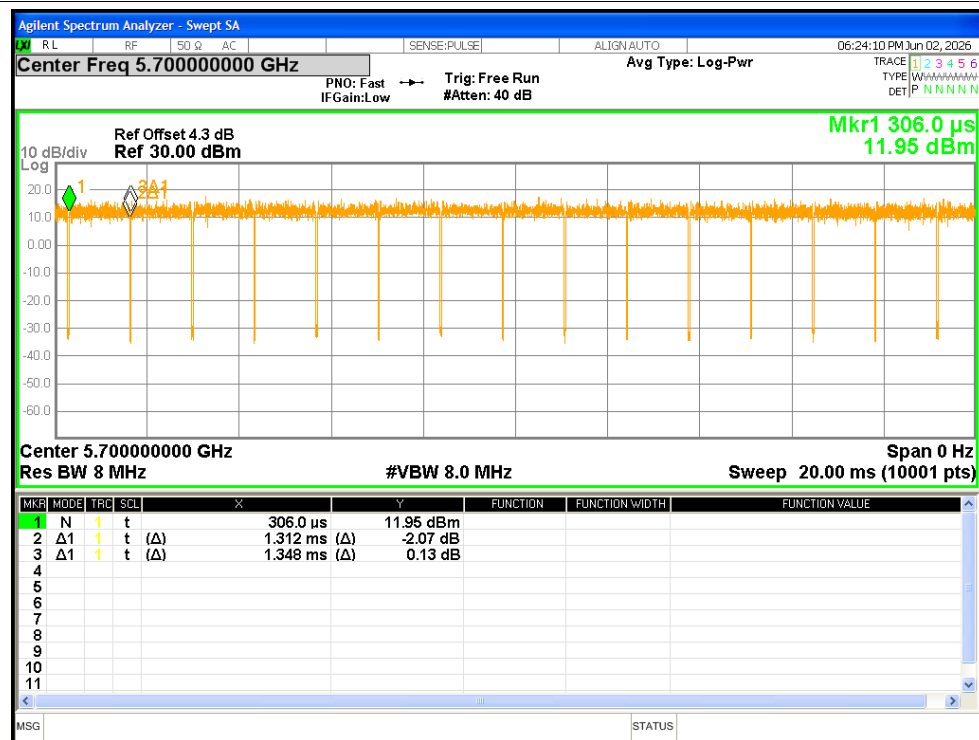
Duty Cycle NVNT ac20 5500MHz



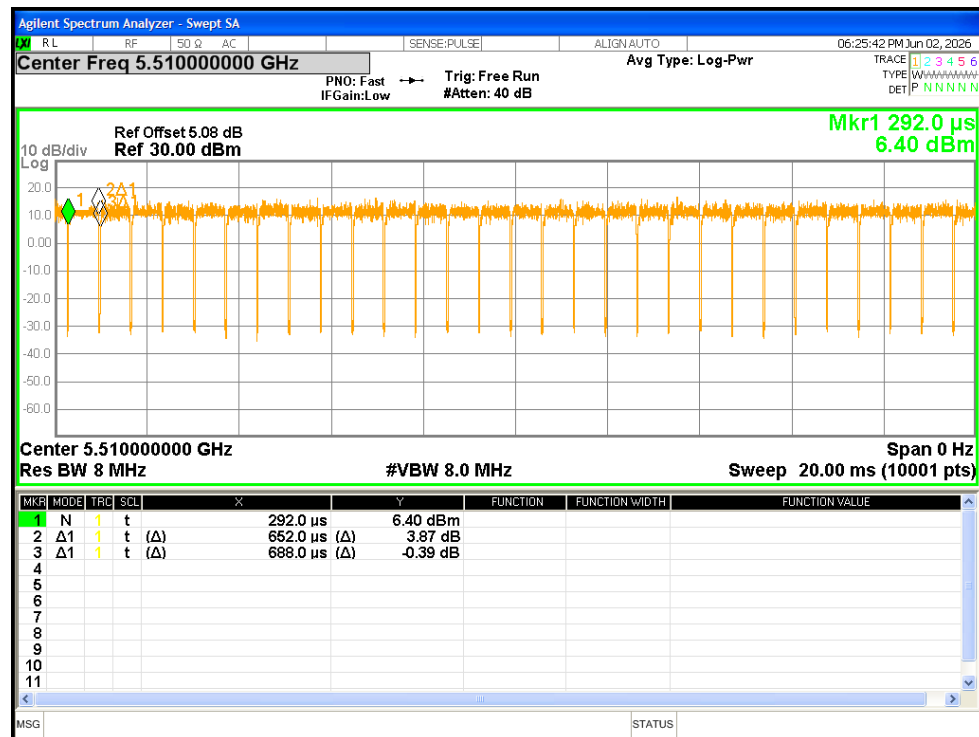
Duty Cycle NVNT ac20 5580MHz



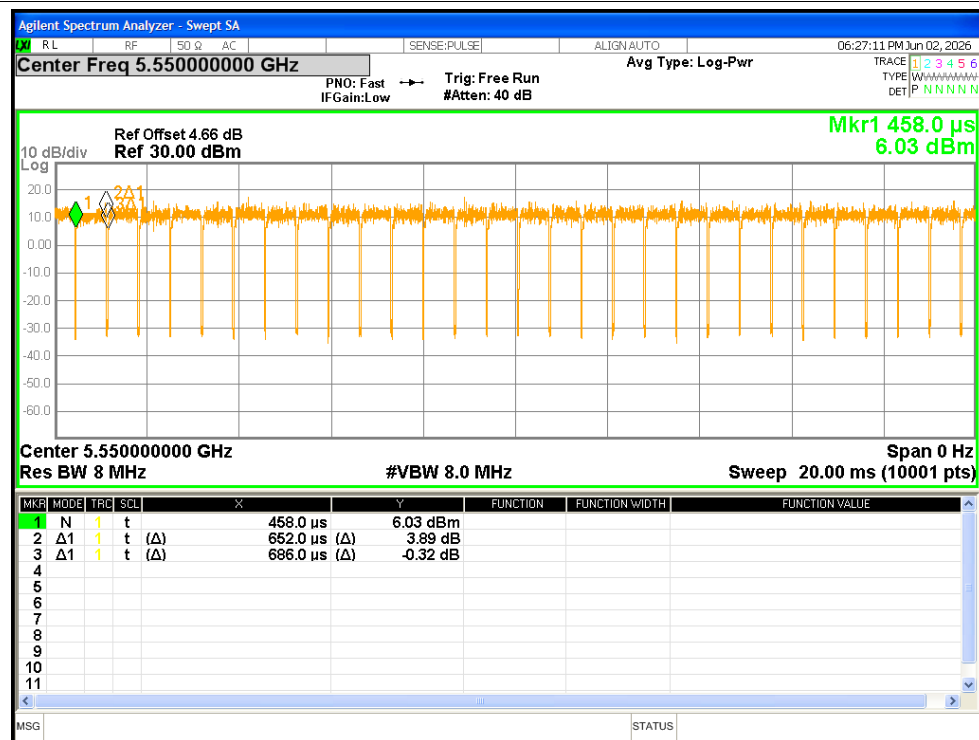
Duty Cycle NVNT ac20 5700MHz



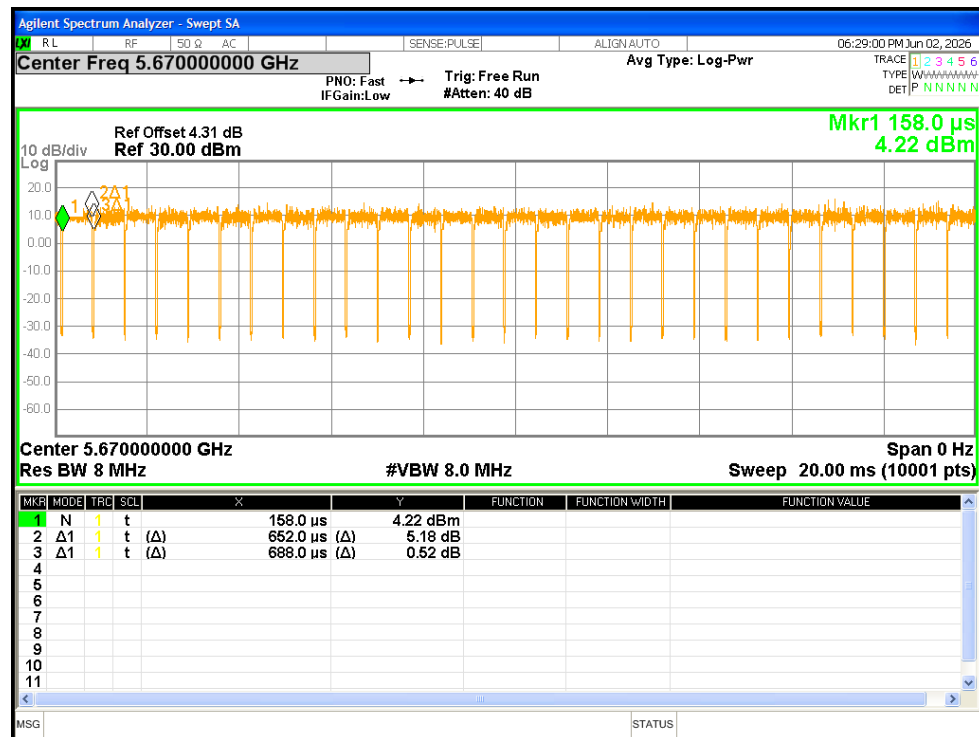
Duty Cycle NVNT ac40 5510MHz



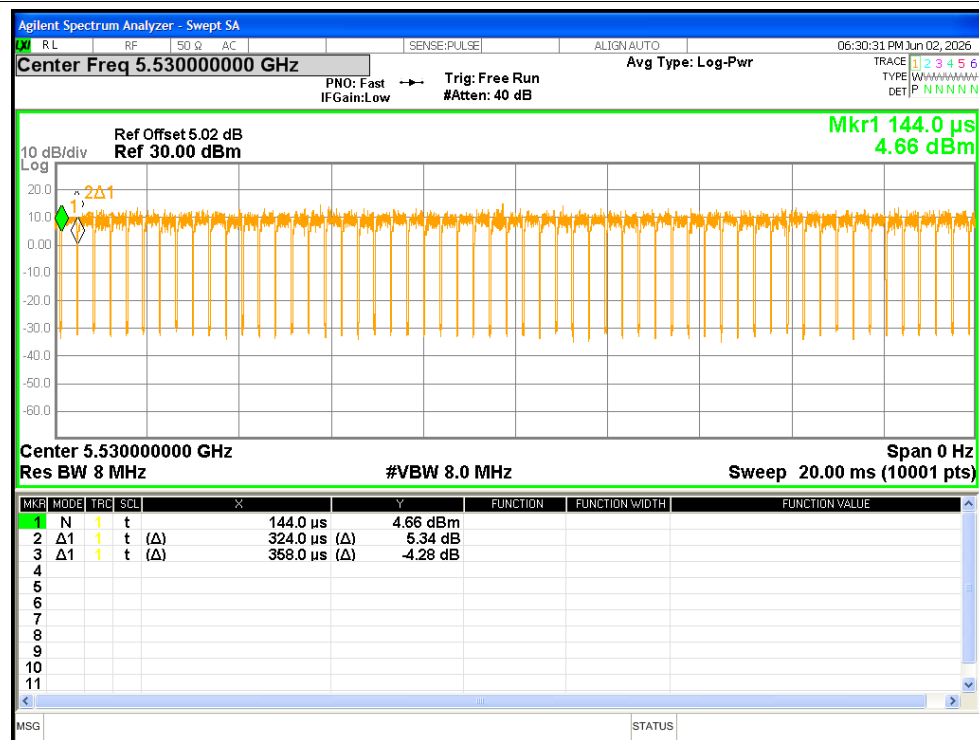
Duty Cycle NVNT ac40 5550MHz



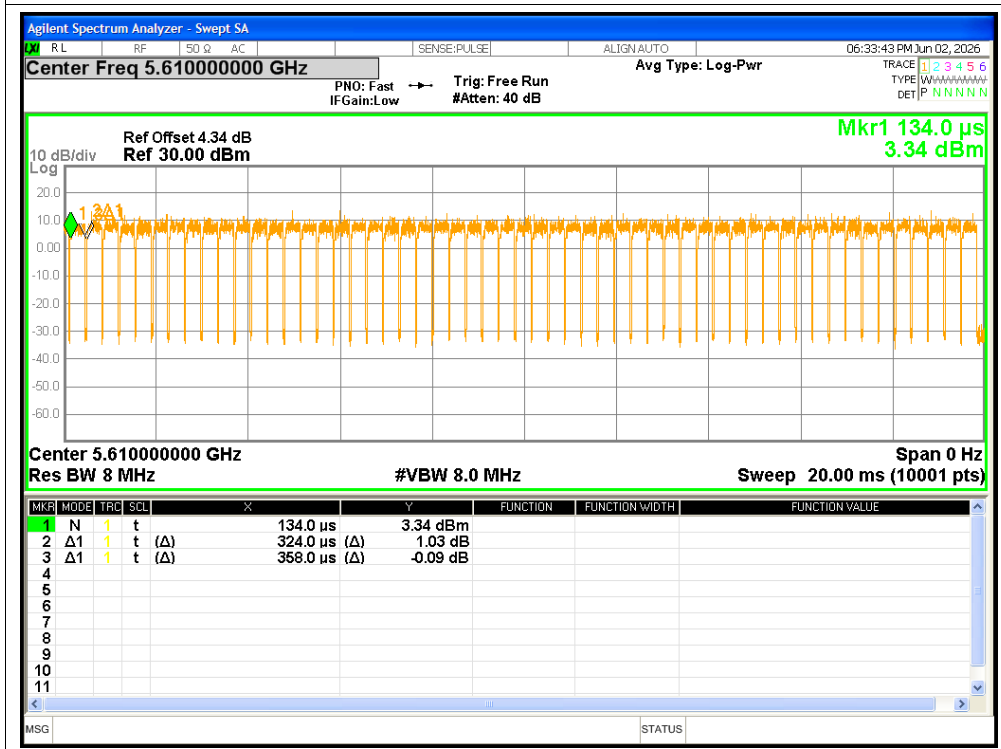
Duty Cycle NVNT ac40 5670MHz



Duty Cycle NVNT ac80 5530MHz



Duty Cycle NVNT ac80 5610MHz



Maximum Conducted Output Power

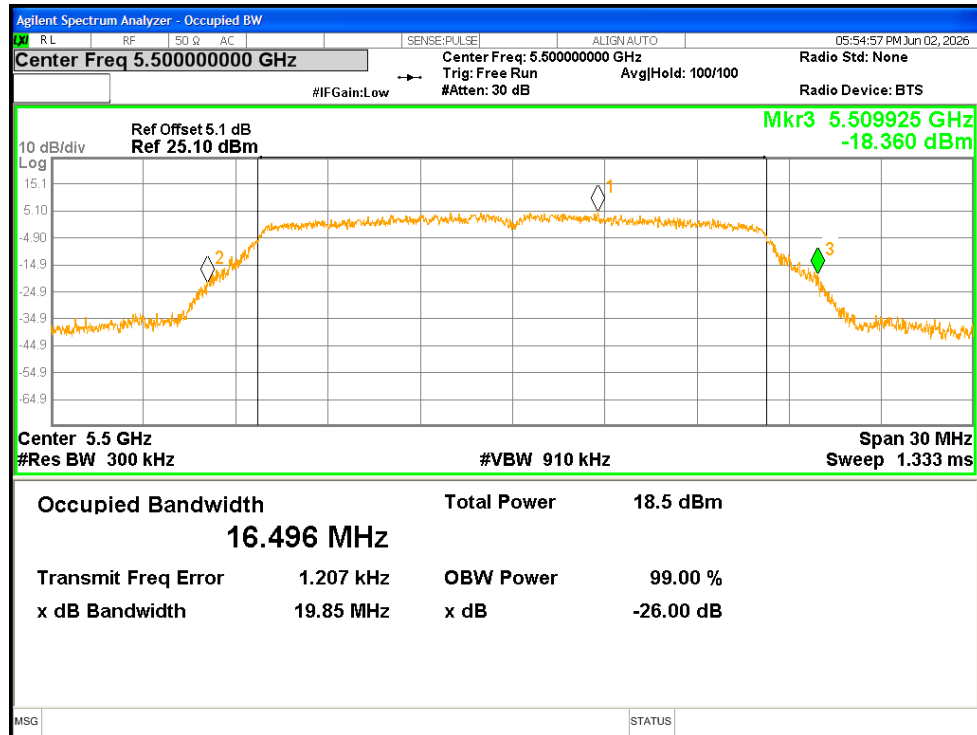
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	12.79	0.11	12.9	<=24	Pass
NVNT	a	5580	11.68	0.11	11.79	<=24	Pass
NVNT	a	5700	10.76	0.11	10.87	<=24	Pass
NVNT	n20	5500	11.46	0.11	11.57	<=24	Pass
NVNT	n20	5580	10.31	0.12	10.43	<=24	Pass
NVNT	n20	5700	9.44	0.12	9.56	<=24	Pass
NVNT	n40	5510	11.42	0.22	11.64	<=24	Pass
NVNT	n40	5550	11.02	0.22	11.24	<=24	Pass
NVNT	n40	5670	9.38	0.22	9.6	<=24	Pass
NVNT	ac20	5500	11.45	0.12	11.57	<=24	Pass
NVNT	ac20	5580	10.3	0.11	10.41	<=24	Pass
NVNT	ac20	5700	9.41	0.12	9.53	<=24	Pass
NVNT	ac40	5510	11.46	0.23	11.69	<=24	Pass
NVNT	ac40	5550	11.01	0.22	11.23	<=24	Pass
NVNT	ac40	5670	9.43	0.23	9.66	<=24	Pass
NVNT	ac80	5530	12.07	0.43	12.5	<=24	Pass
NVNT	ac80	5610	10.53	0.43	10.96	<=24	Pass

-26dB Bandwidth

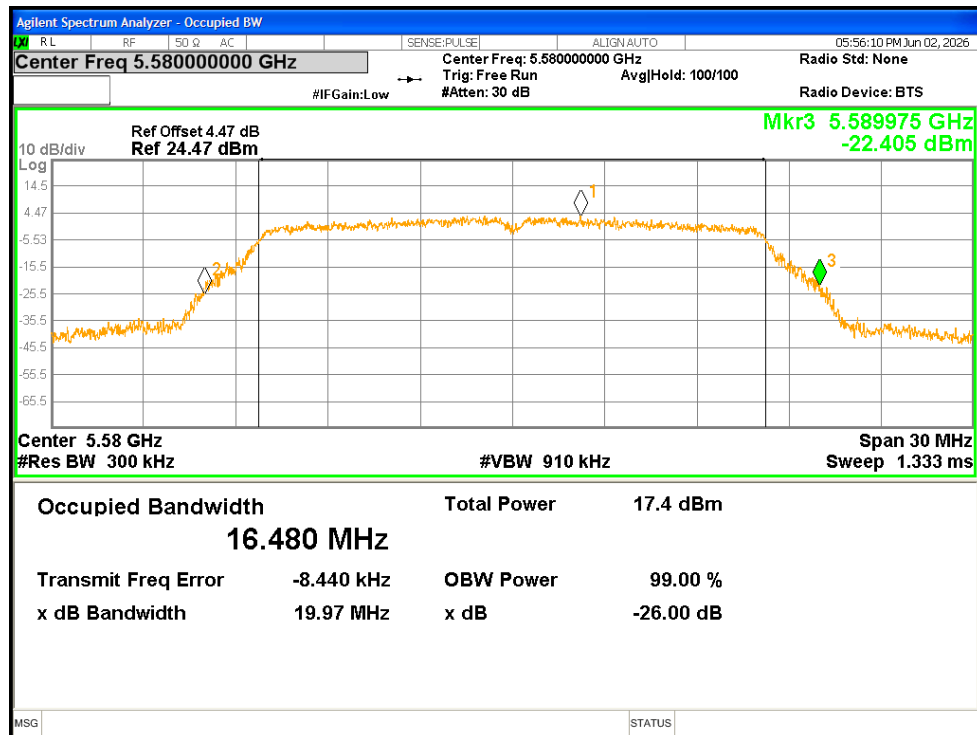
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	19.85	Pass
NVNT	a	5580	19.97	Pass
NVNT	a	5700	20.03	Pass
NVNT	n20	5500	20.3	Pass
NVNT	n20	5580	20.49	Pass
NVNT	n20	5700	20.34	Pass
NVNT	n40	5510	40.69	Pass
NVNT	n40	5550	40.57	Pass
NVNT	n40	5670	40.85	Pass
NVNT	ac20	5500	20.28	Pass
NVNT	ac20	5580	20.42	Pass
NVNT	ac20	5700	20.23	Pass
NVNT	ac40	5510	40.71	Pass
NVNT	ac40	5550	40.77	Pass
NVNT	ac40	5670	40.5	Pass
NVNT	ac80	5530	81.87	Pass
NVNT	ac80	5610	81.95	Pass

Test Graphs

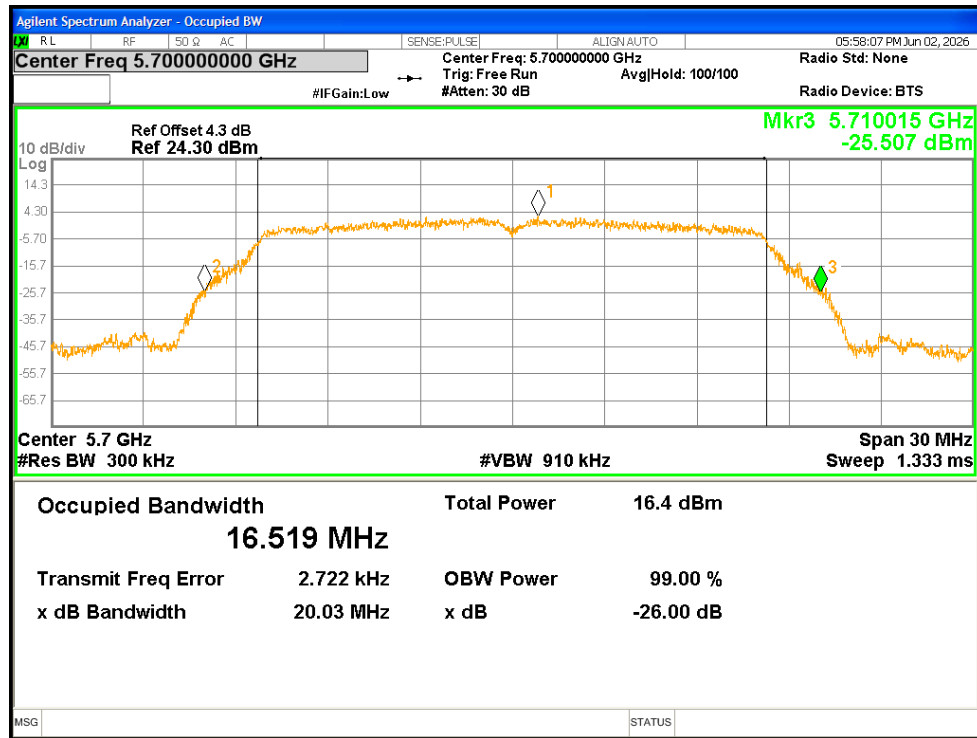
-26dB Bandwidth NVNT a 5500MHz



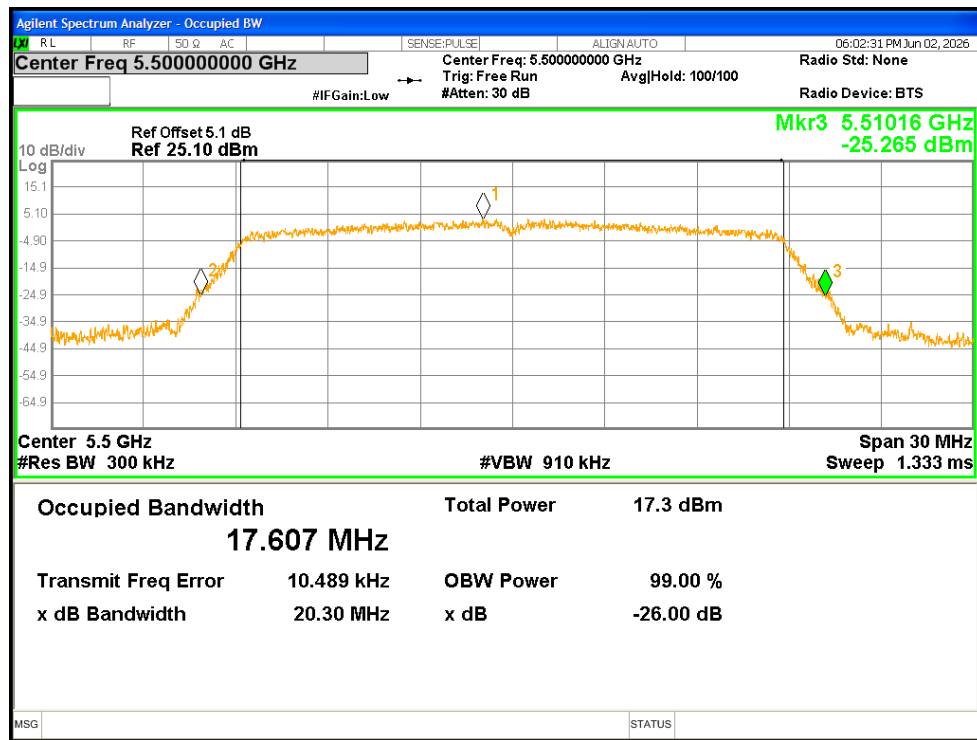
-26dB Bandwidth NVNT a 5580MHz



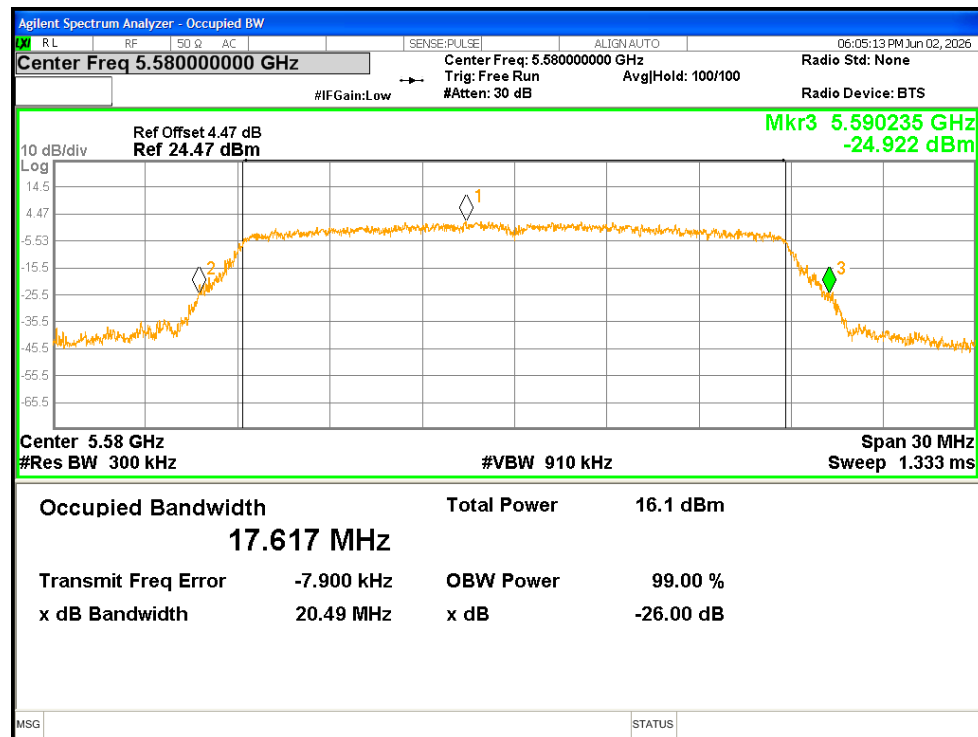
-26dB Bandwidth NVNT a 5700MHz



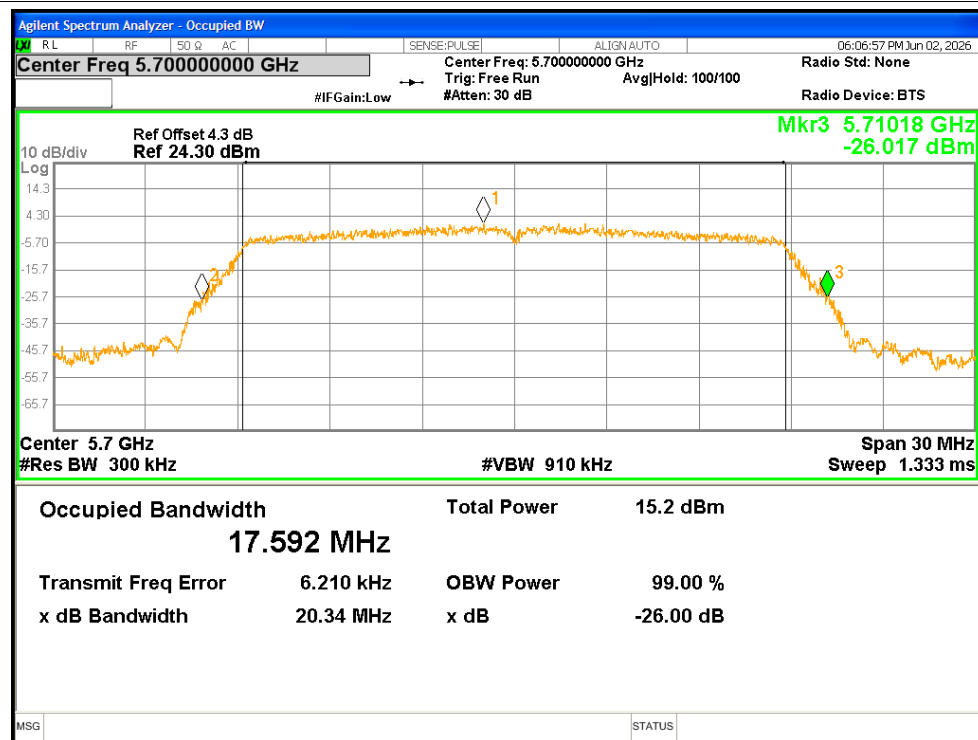
-26dB Bandwidth NVNT n20 5500MHz



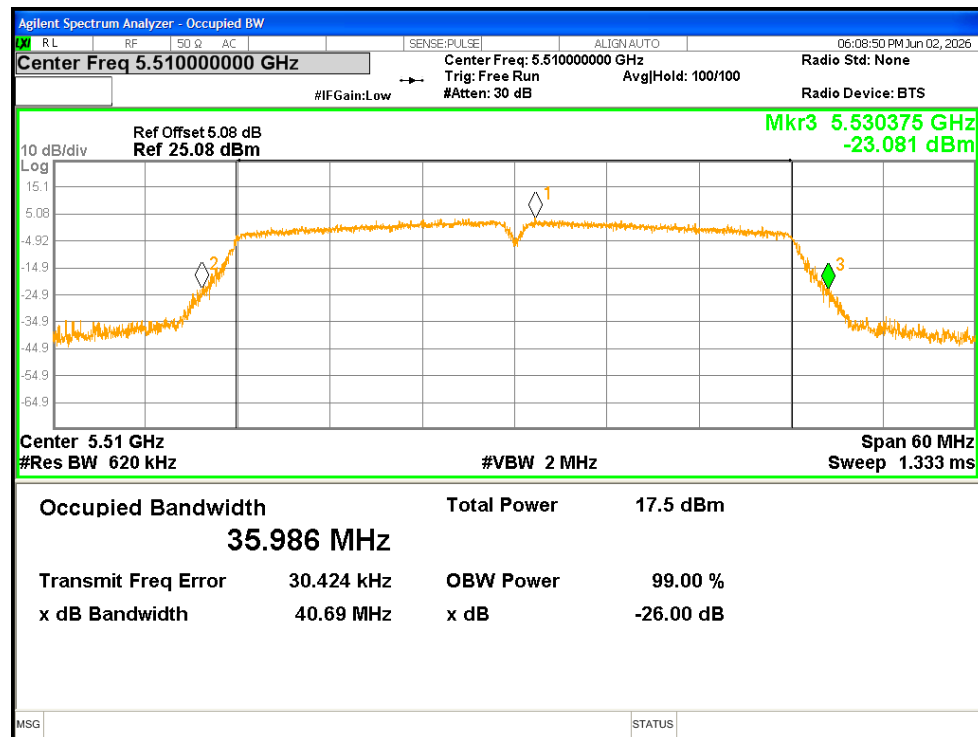
-26dB Bandwidth NVNT n20 5580MHz



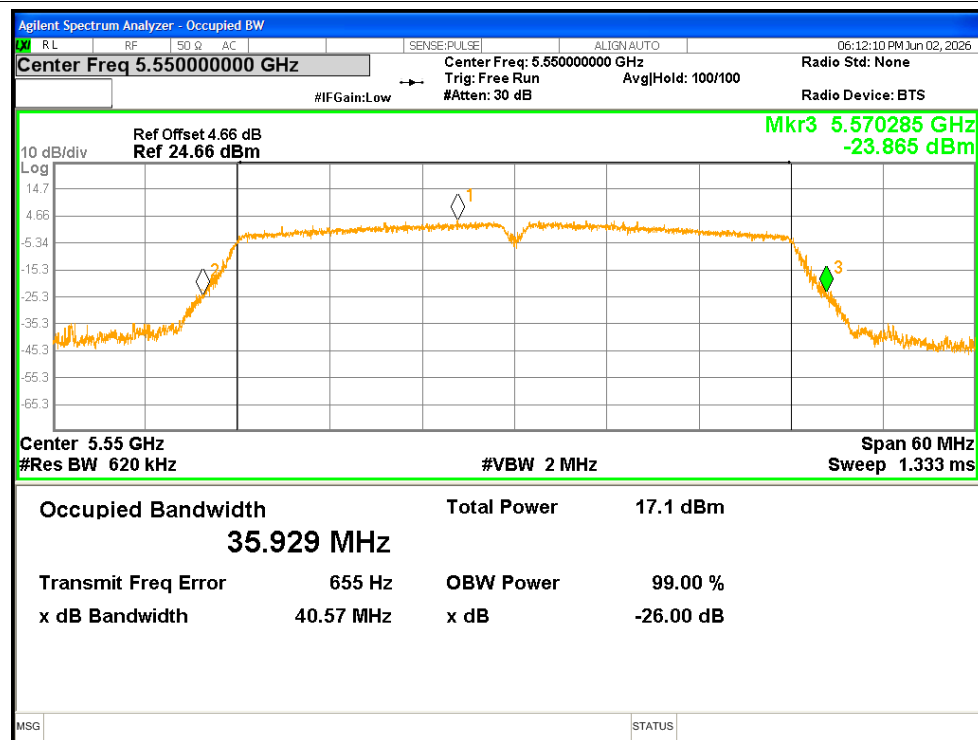
-26dB Bandwidth NVNT n20 5700MHz



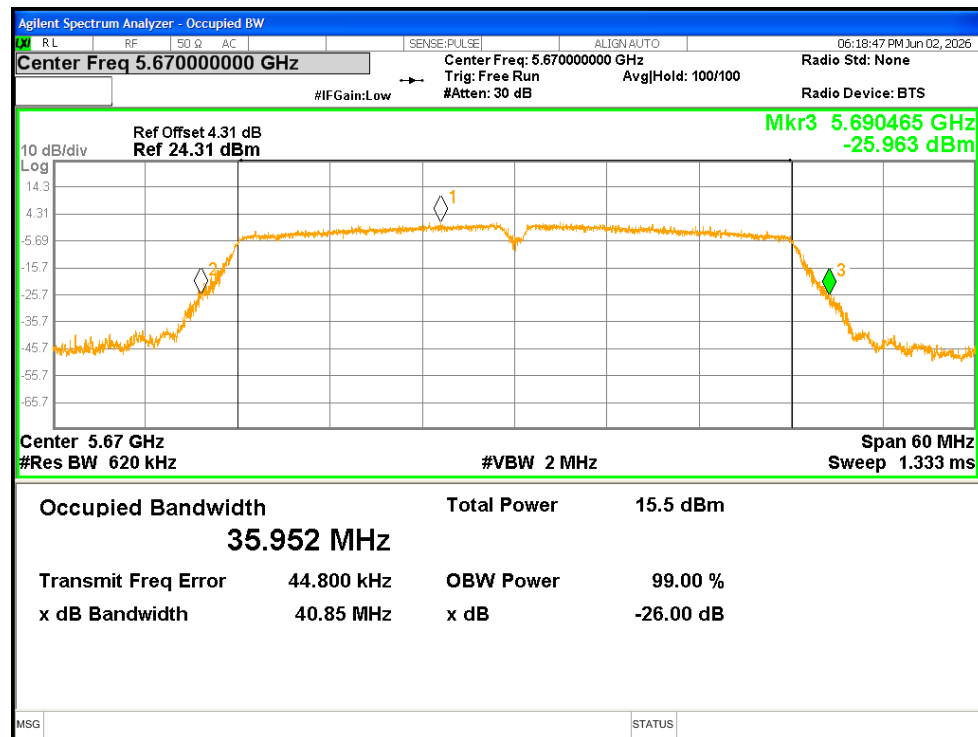
-26dB Bandwidth NVNT n40 5510MHz



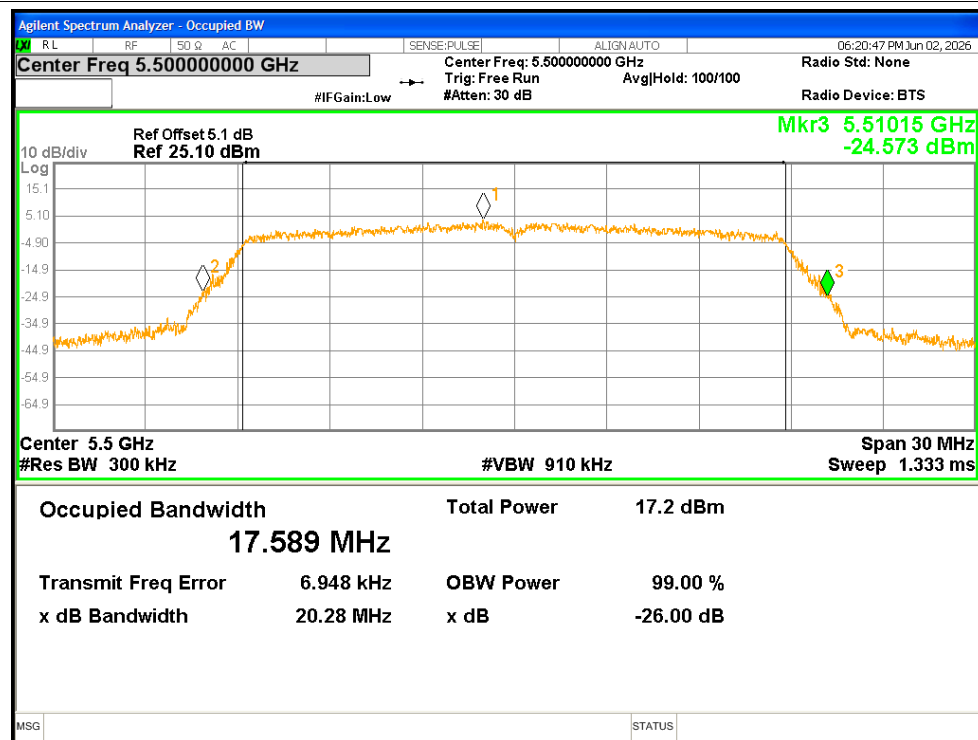
-26dB Bandwidth NVNT n40 5550MHz



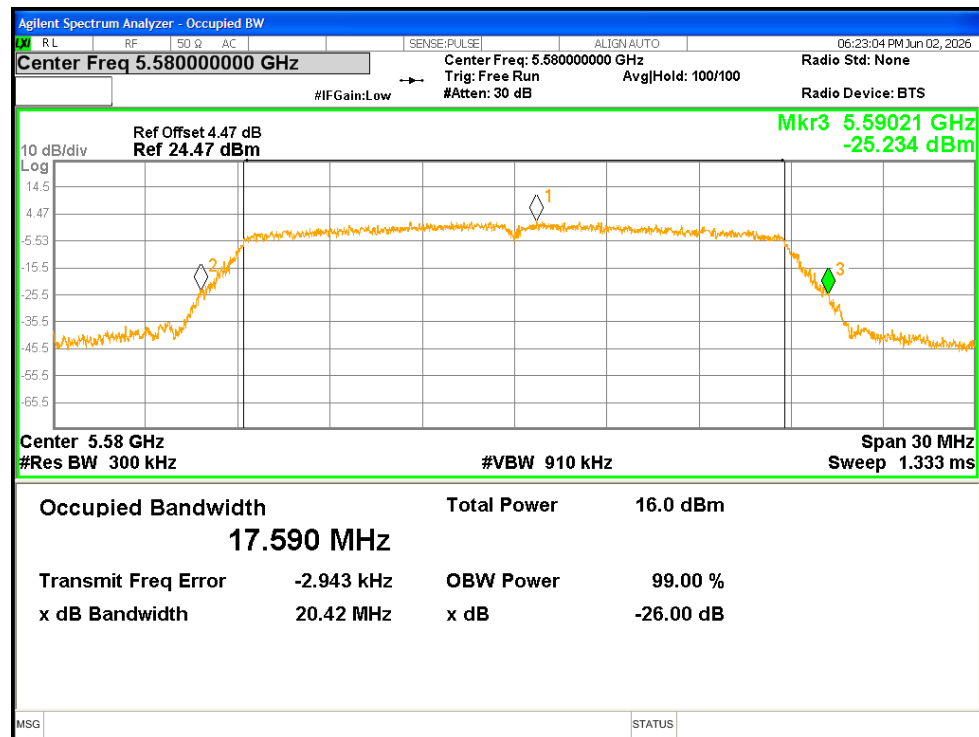
-26dB Bandwidth NVNT n40 5670MHz



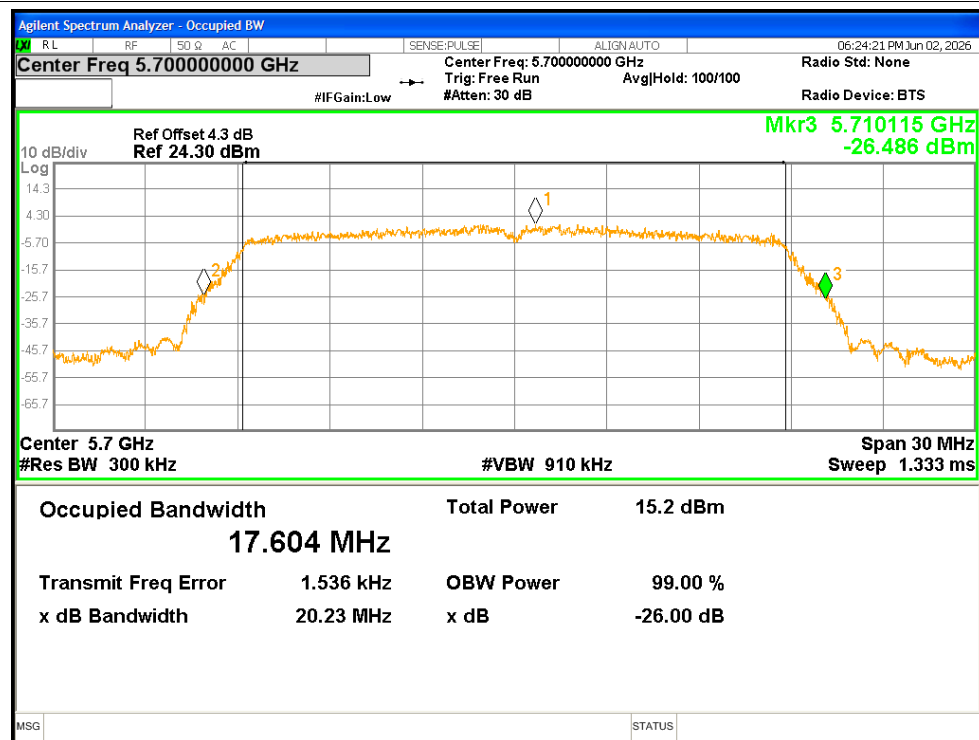
-26dB Bandwidth NVNT ac20 5500MHz



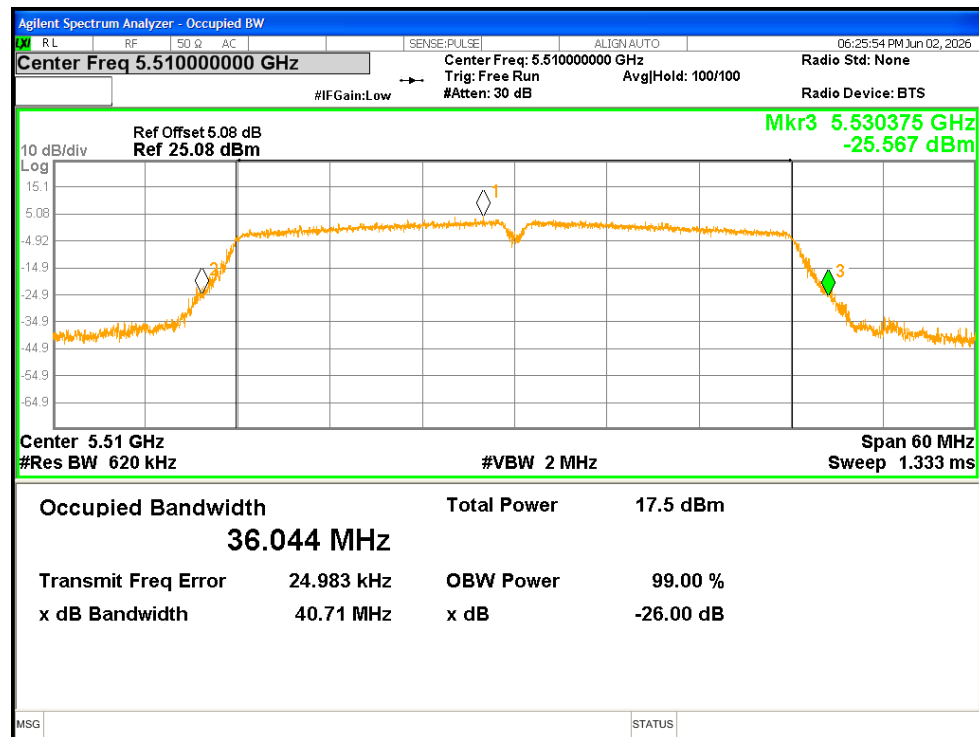
-26dB Bandwidth NVNT ac20 5580MHz



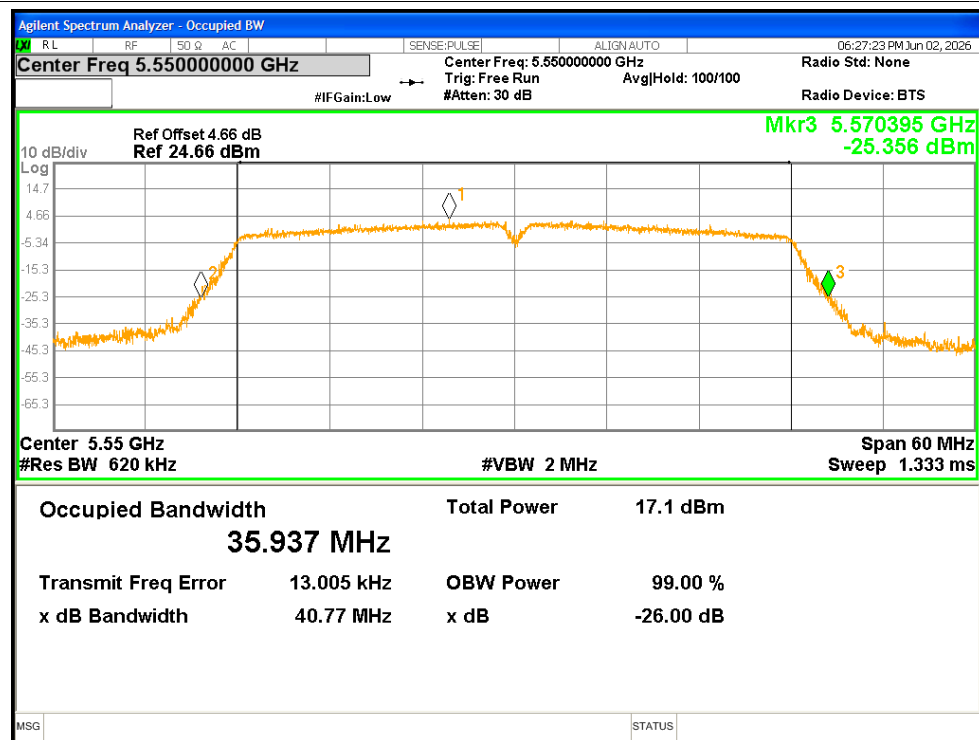
-26dB Bandwidth NVNT ac20 5700MHz



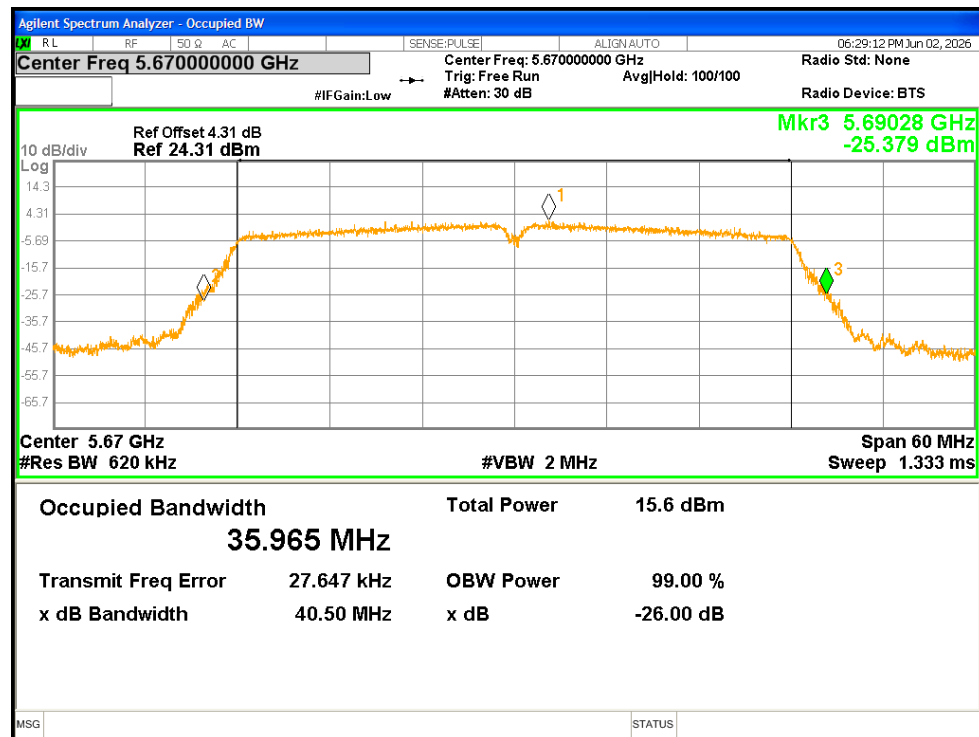
-26dB Bandwidth NVNT ac40 5510MHz



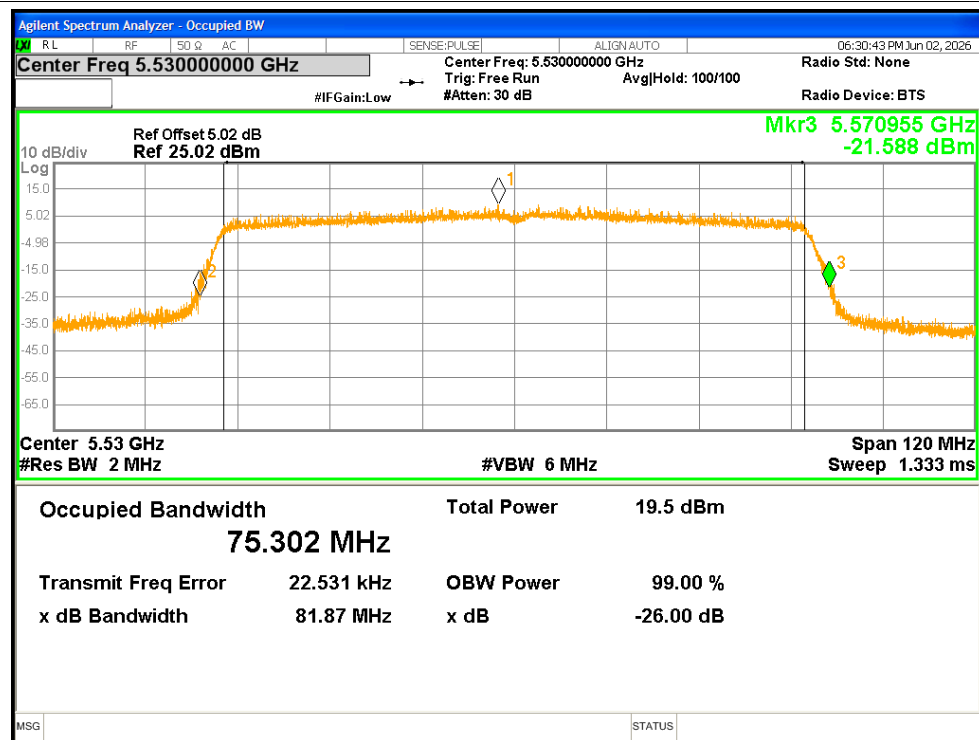
-26dB Bandwidth NVNT ac40 5550MHz



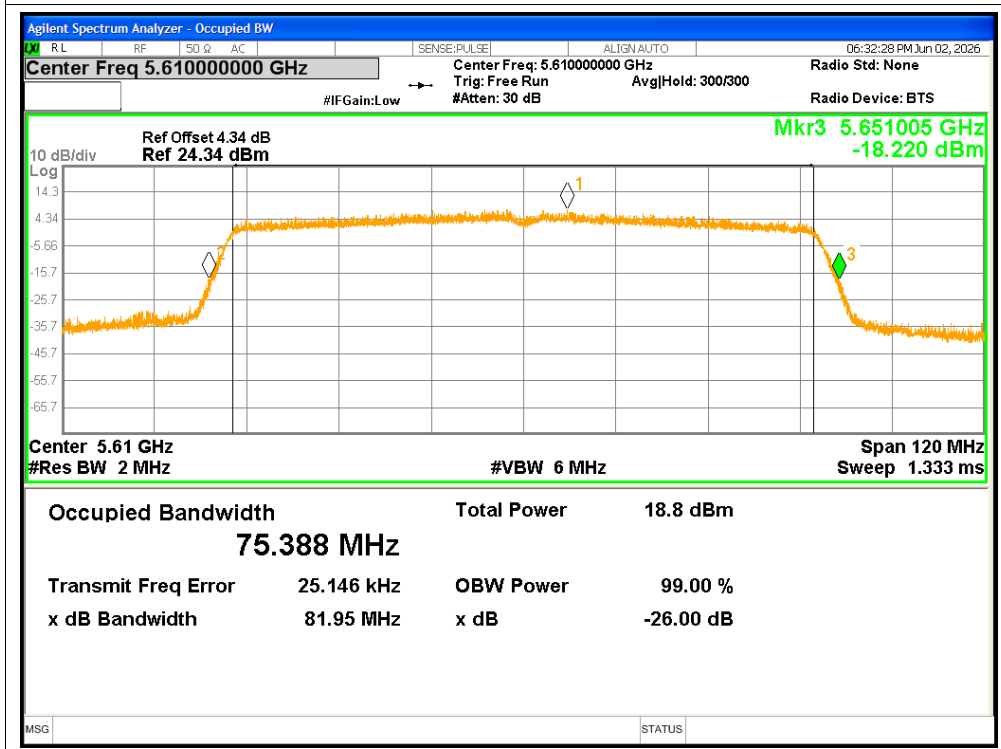
-26dB Bandwidth NVNT ac40 5670MHz



-26dB Bandwidth NVNT ac80 5530MHz



-26dB Bandwidth NVNT ac80 5610MHz

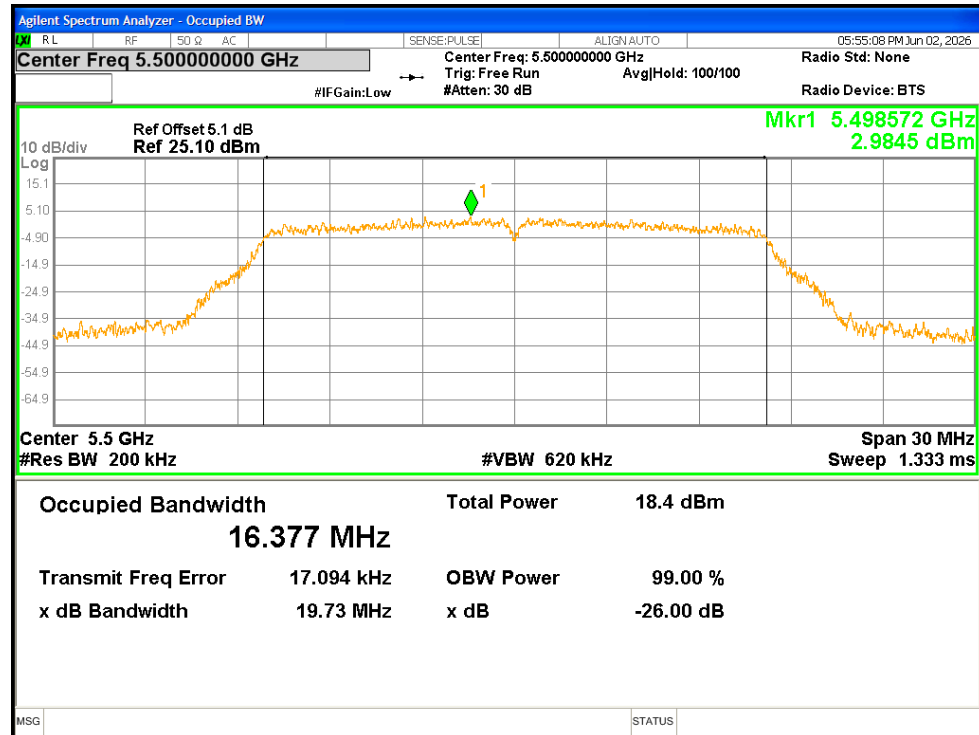


Occupied Channel Bandwidth

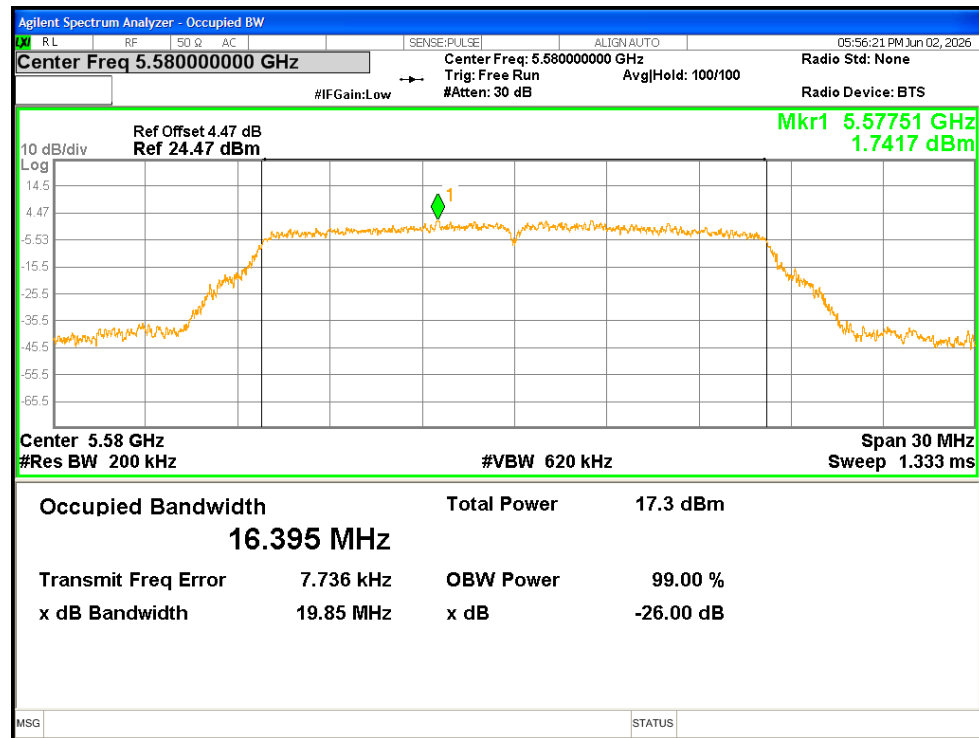
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5500	16.377
NVNT	a	5580	16.395
NVNT	a	5700	16.372
NVNT	n20	5500	17.519
NVNT	n20	5580	17.539
NVNT	n20	5700	17.526
NVNT	n40	5510	36
NVNT	n40	5550	35.91
NVNT	n40	5670	35.93
NVNT	ac20	5500	17.507
NVNT	ac20	5580	17.555
NVNT	ac20	5700	17.553
NVNT	ac40	5510	35.965
NVNT	ac40	5550	35.946
NVNT	ac40	5670	35.92
NVNT	ac80	5530	75.069
NVNT	ac80	5610	75.198

Test Graphs

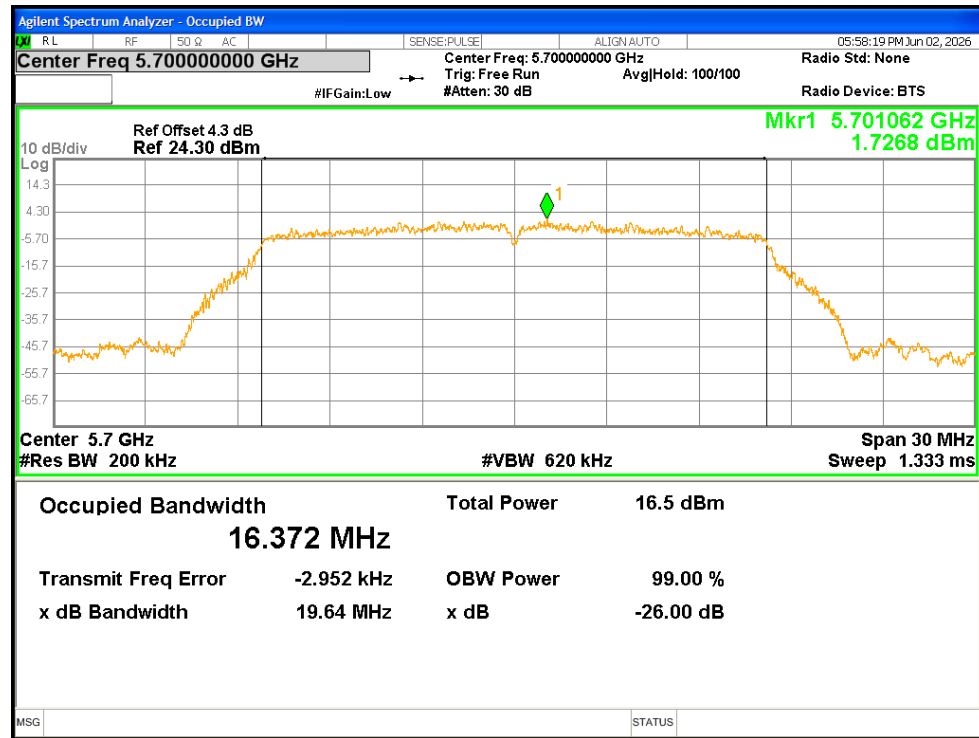
OBW NVNT a 5500MHz



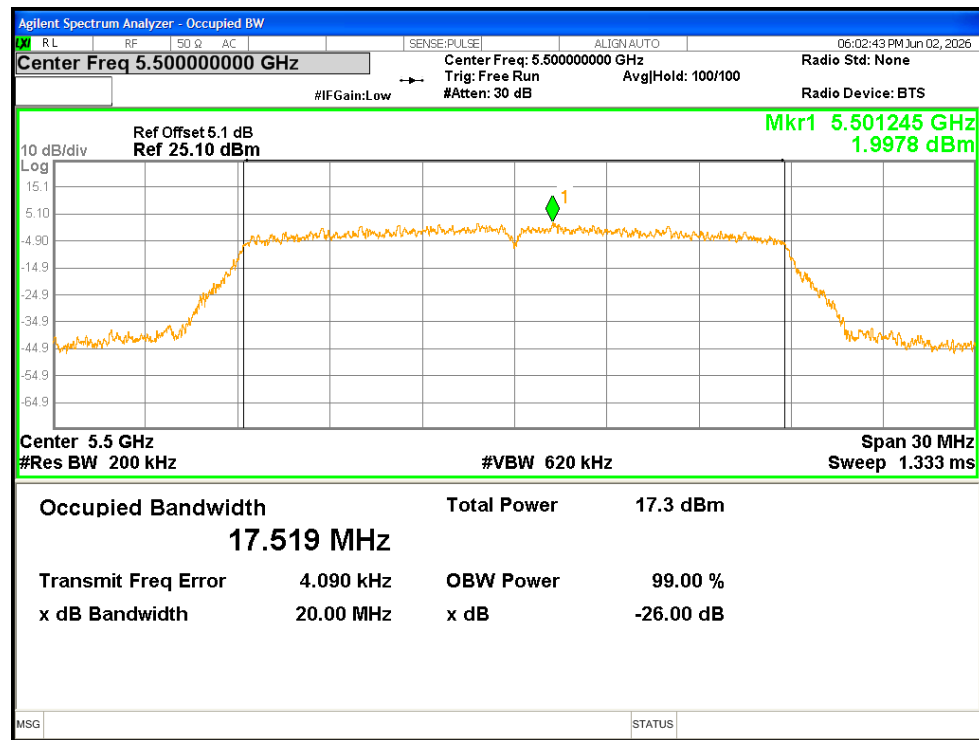
OBW NVNT a 5580MHz



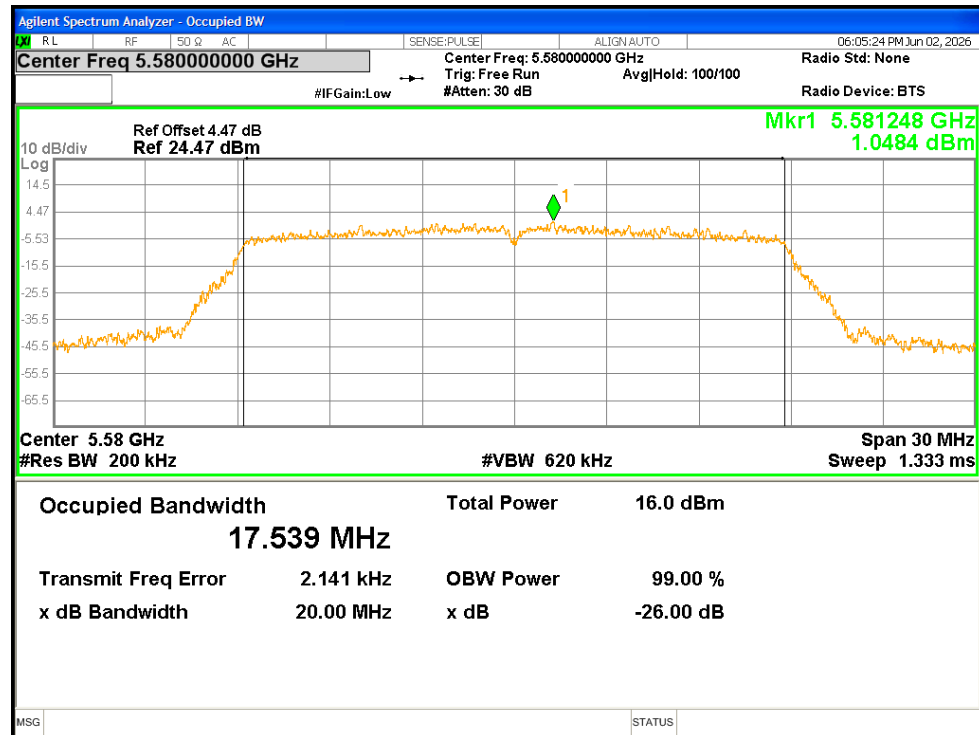
OBW NVNT a 5700MHz



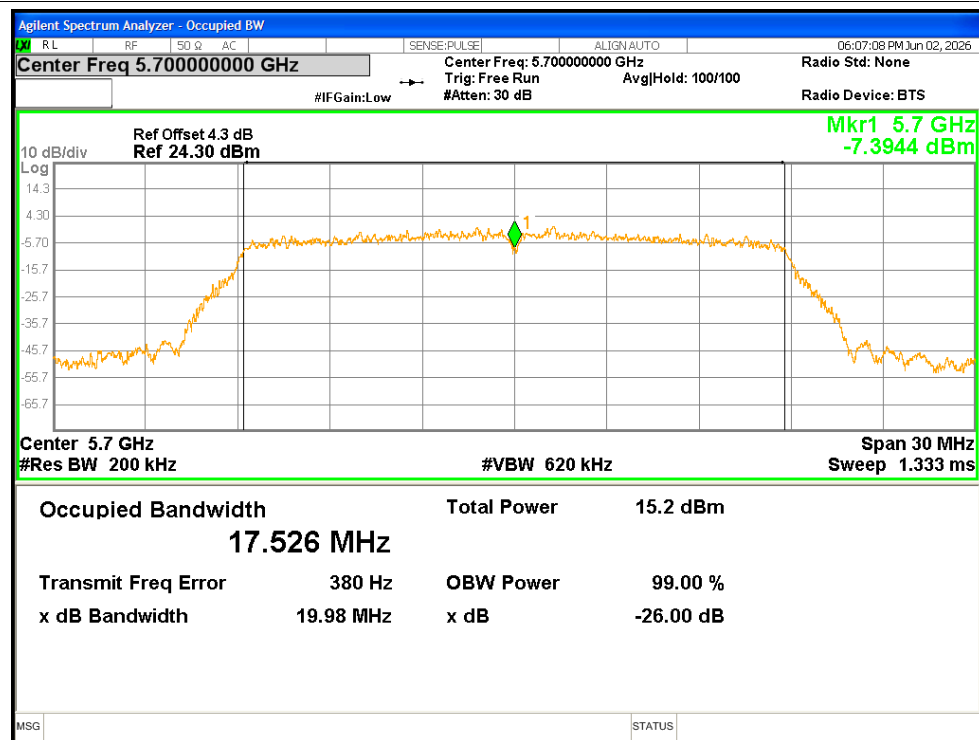
OBW NVNT n20 5500MHz



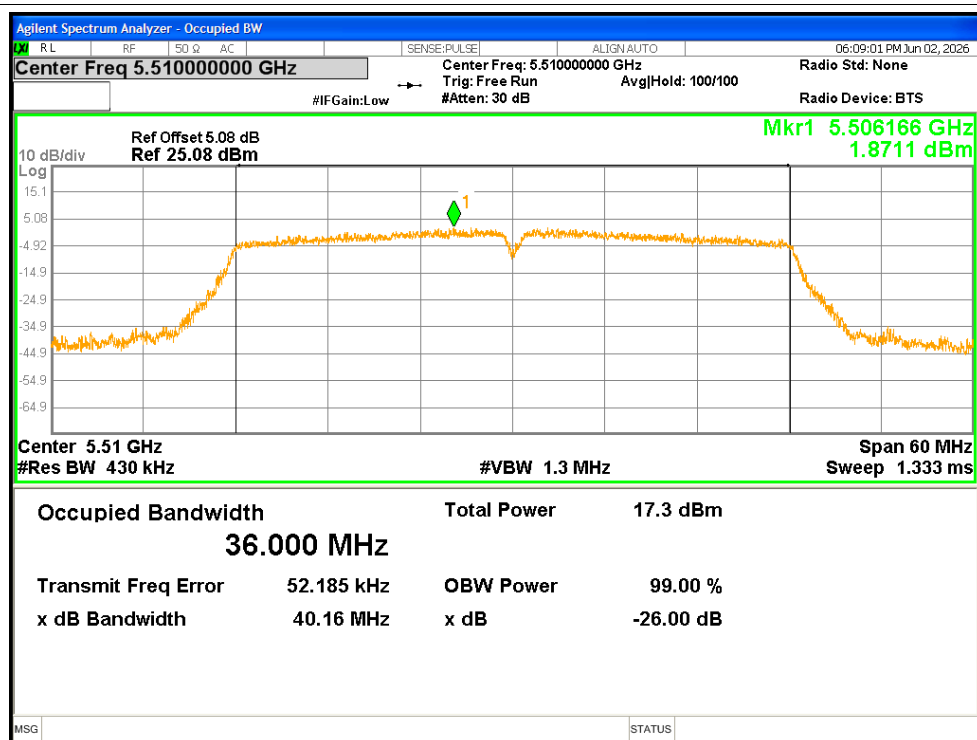
OBW NVNT n20 5580MHz



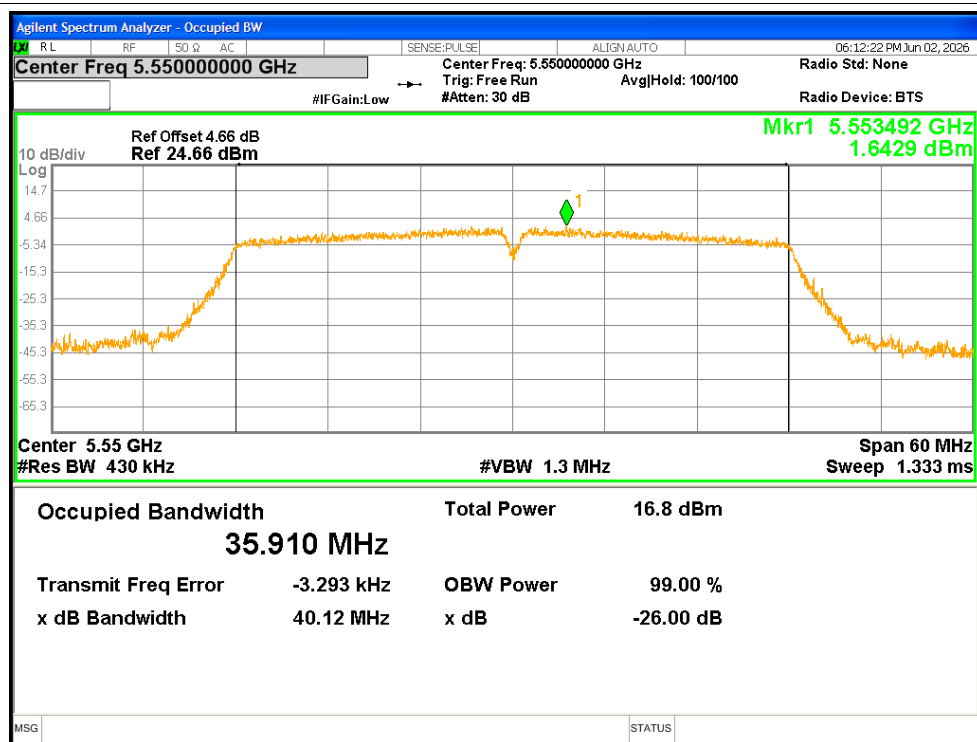
OBW NVNT n20 5700MHz



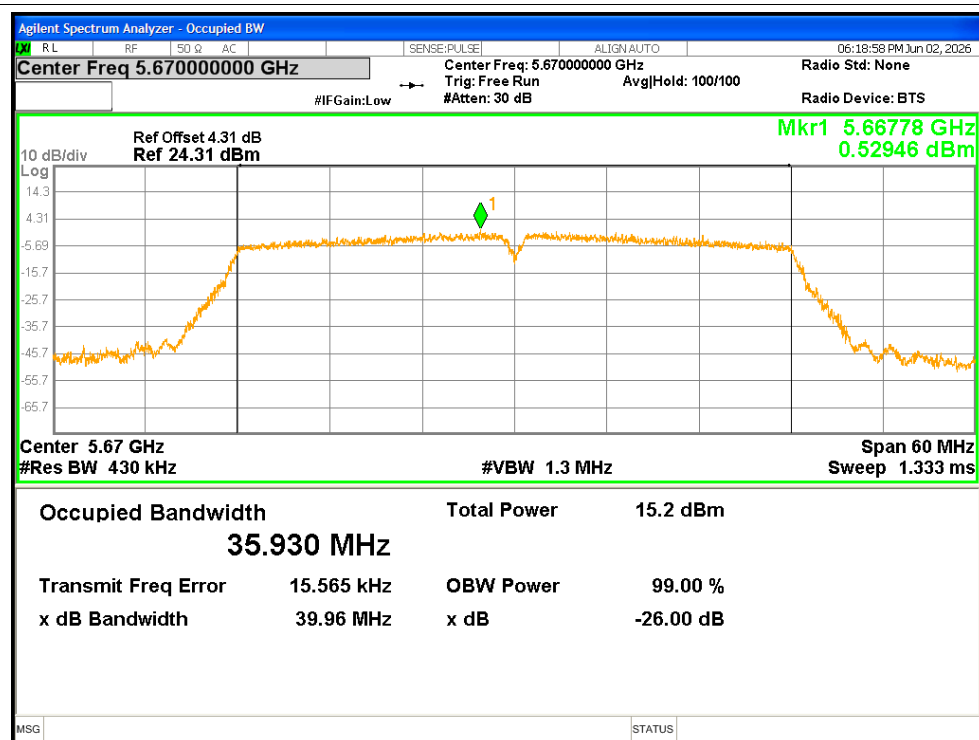
OBW NVNT n40 5510MHz



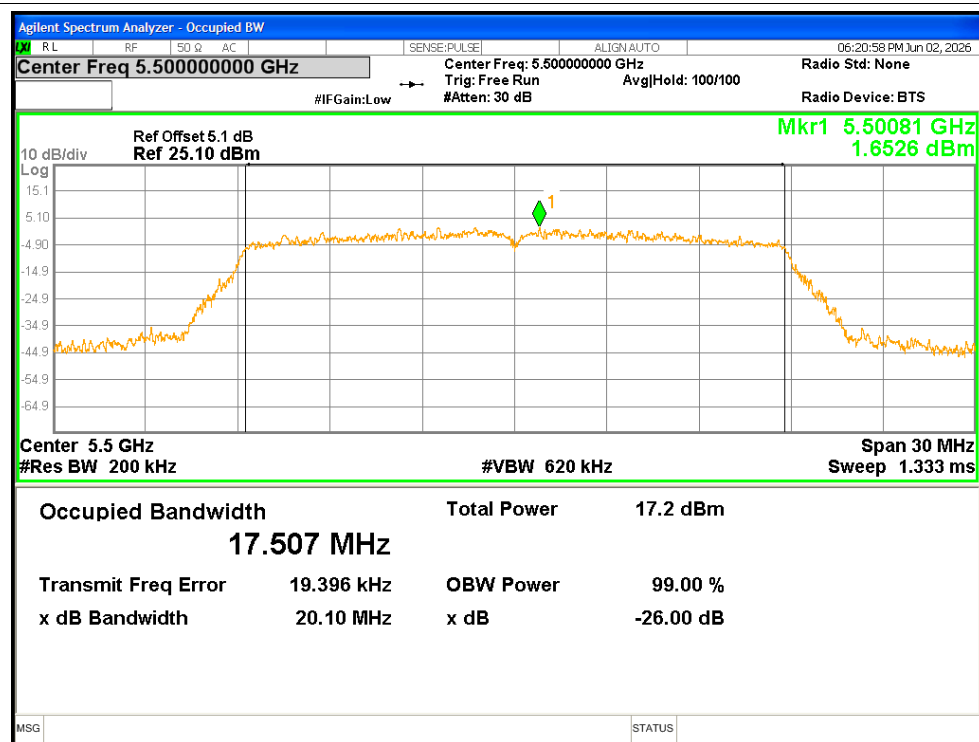
OBW NVNT n40 5550MHz



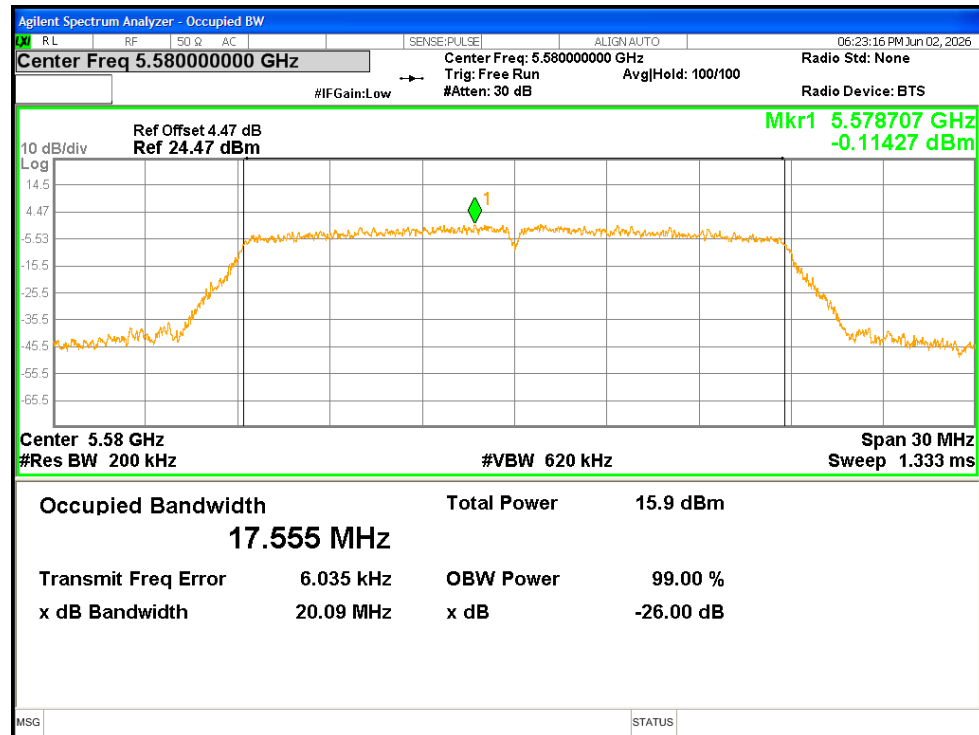
OBW NVNT n40 5670MHz



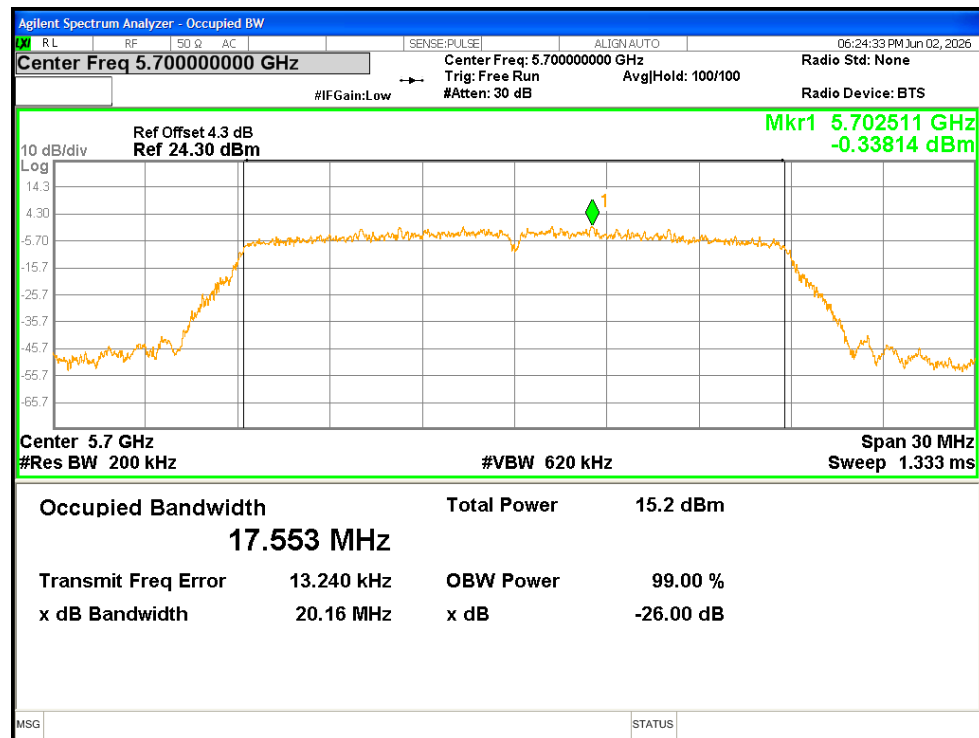
OBW NVNT ac20 5500MHz



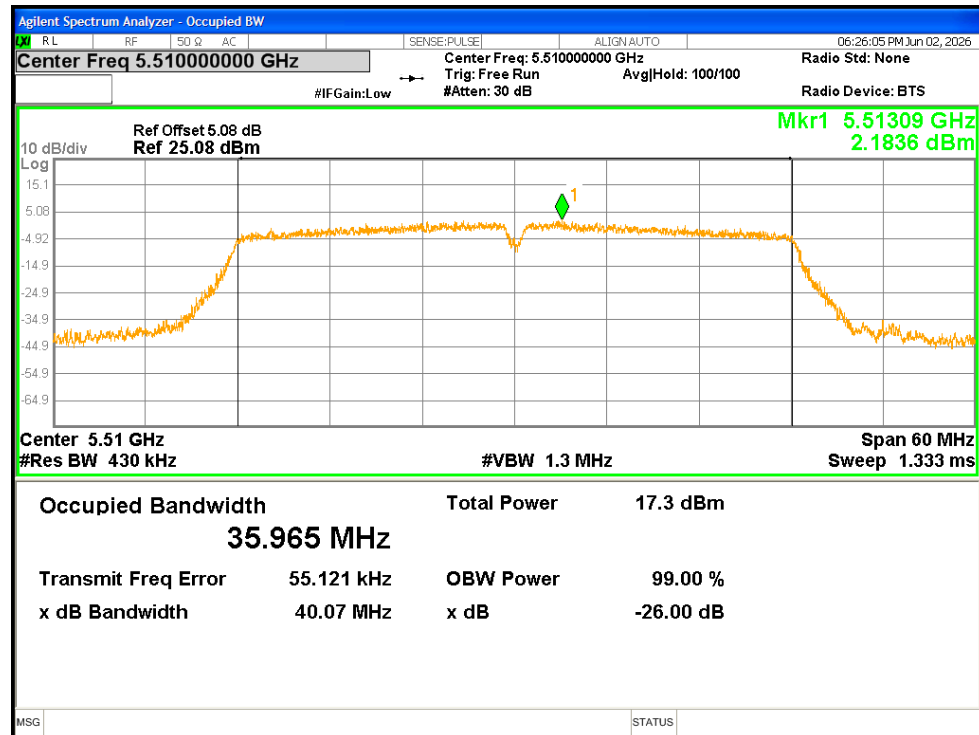
OBW NVNT ac20 5580MHz



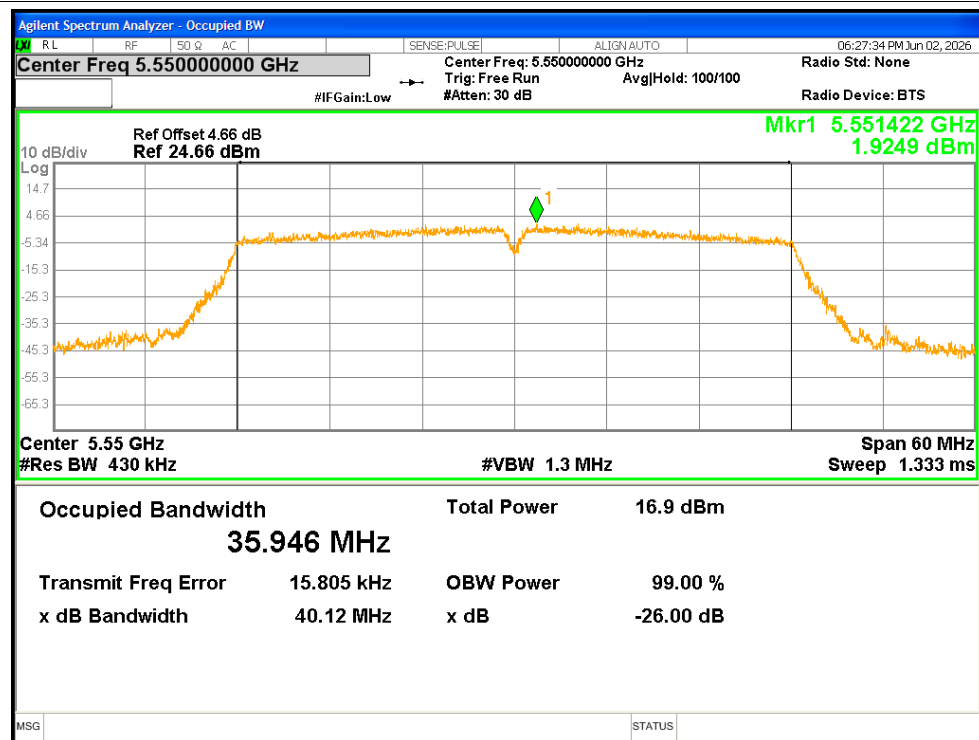
OBW NVNT ac20 5700MHz



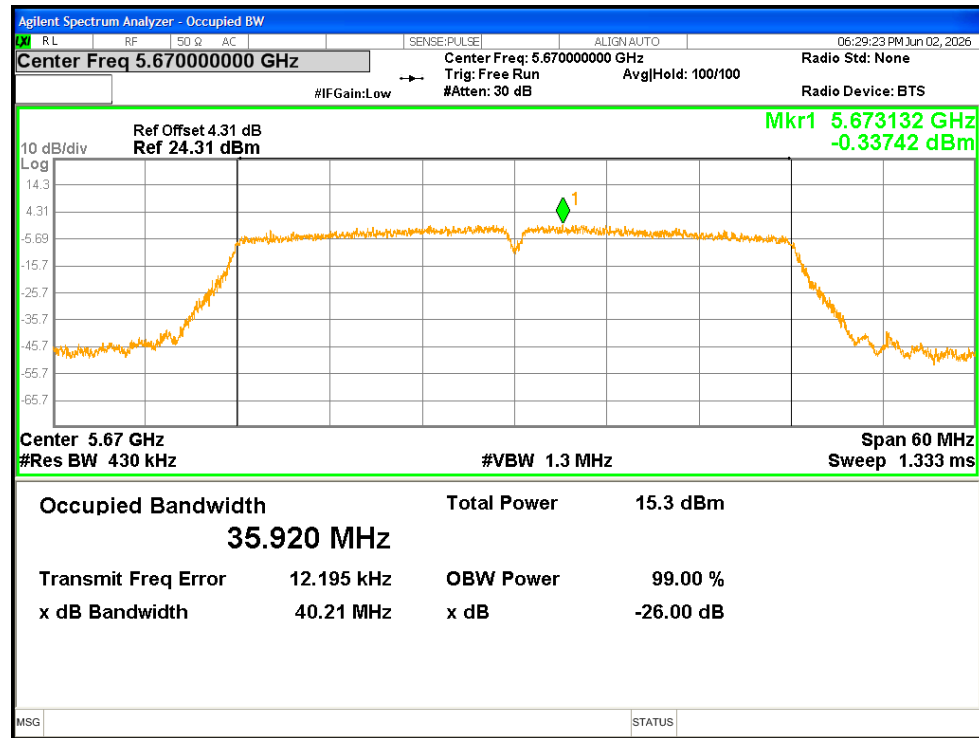
OBW NVNT ac40 5510MHz



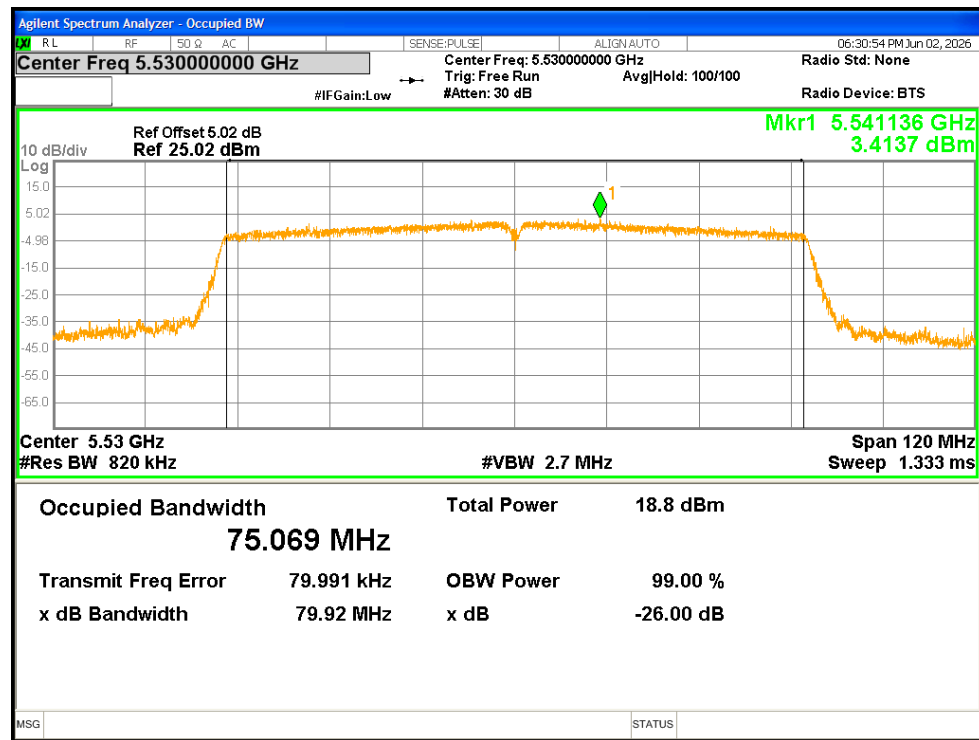
OBW NVNT ac40 5550MHz



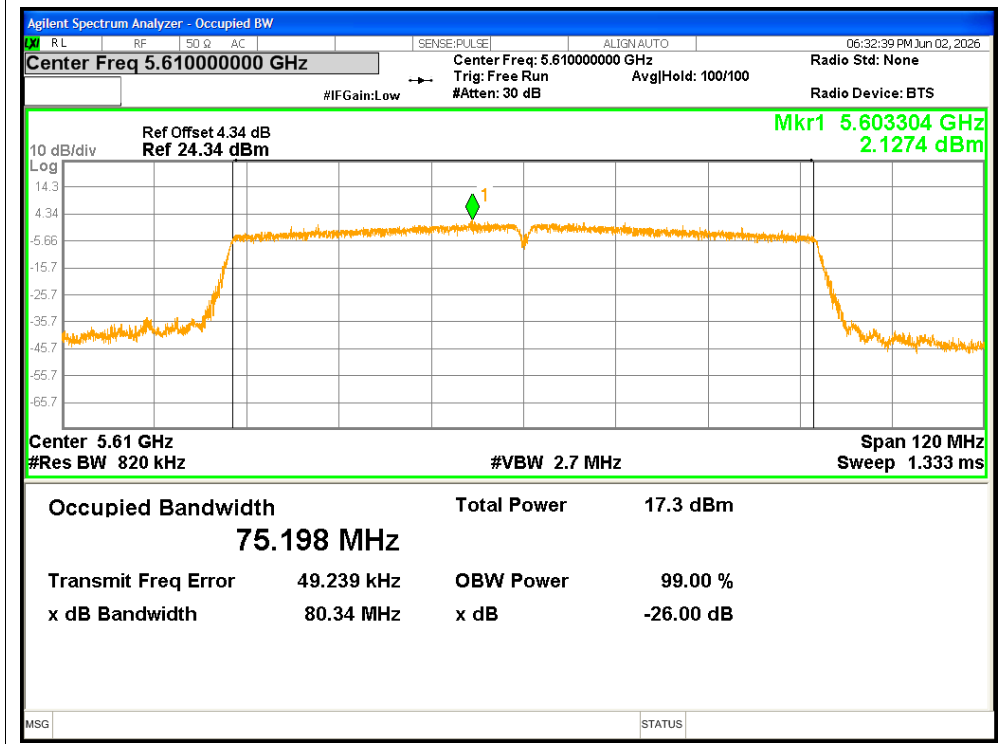
OBW NVNT ac40 5670MHz



OBW NVNT ac80 5530MHz



OBW NVNT ac80 5610MHz

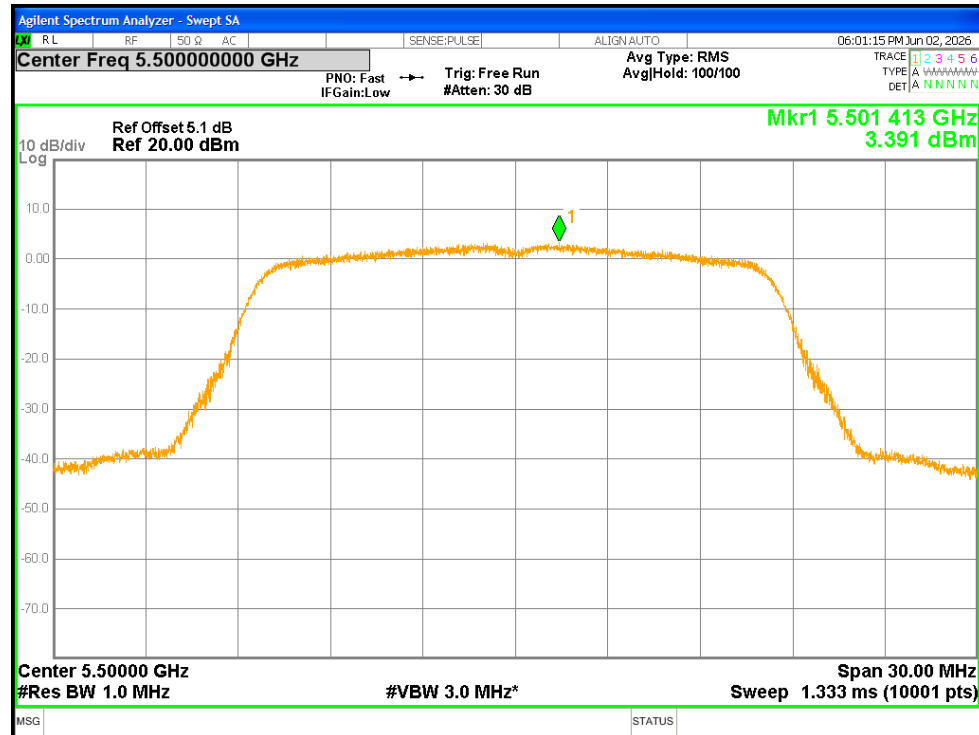


Maximum Power Spectral Density Level

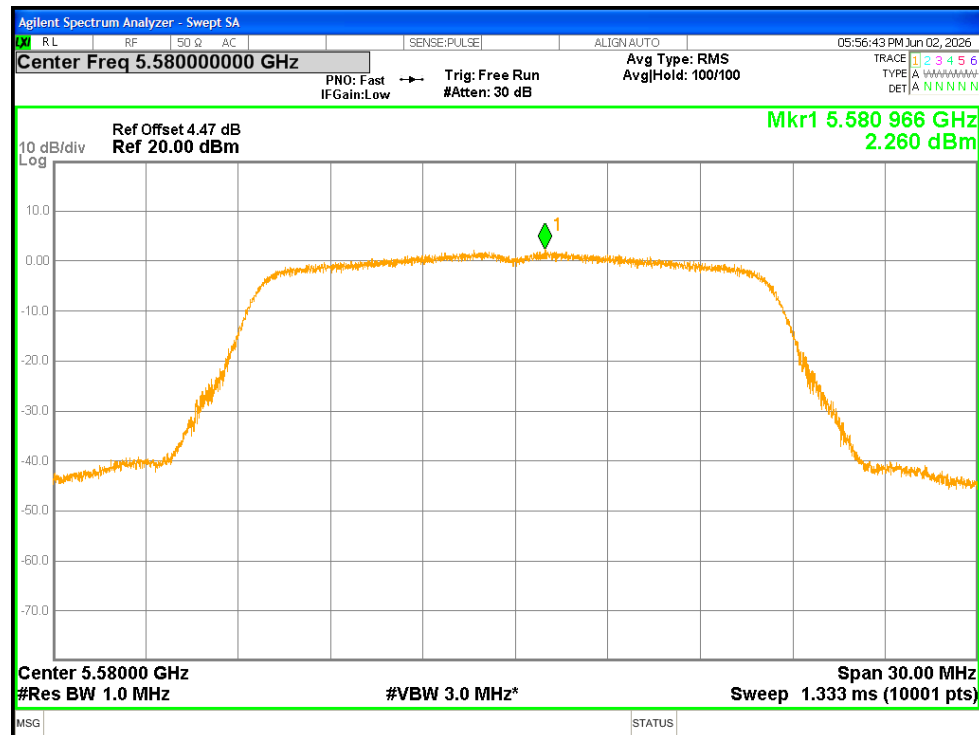
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	3.391	0.11	3.501	<=11	Pass
NVNT	a	5580	2.26	0.11	2.37	<=11	Pass
NVNT	a	5700	1.116	0.11	1.226	<=11	Pass
NVNT	n20	5500	1.982	0.11	2.092	<=11	Pass
NVNT	n20	5580	0.386	0.12	0.506	<=11	Pass
NVNT	n20	5700	-0.204	0.12	-0.084	<=11	Pass
NVNT	n40	5510	-1.129	0.22	-0.909	<=11	Pass
NVNT	n40	5550	-1.691	0.22	-1.471	<=11	Pass
NVNT	n40	5670	-2.902	0.22	-2.682	<=11	Pass
NVNT	ac20	5500	1.98	0.12	2.1	<=11	Pass
NVNT	ac20	5580	0.587	0.11	0.697	<=11	Pass
NVNT	ac20	5700	-0.462	0.12	-0.342	<=11	Pass
NVNT	ac40	5510	-1.174	0.23	-0.944	<=11	Pass
NVNT	ac40	5550	-1.295	0.22	-1.075	<=11	Pass
NVNT	ac40	5670	-3.379	0.23	-3.149	<=11	Pass
NVNT	ac80	5530	-3.338	0.43	-2.908	<=11	Pass
NVNT	ac80	5610	-5.313	0.43	-4.883	<=11	Pass

Test Graphs

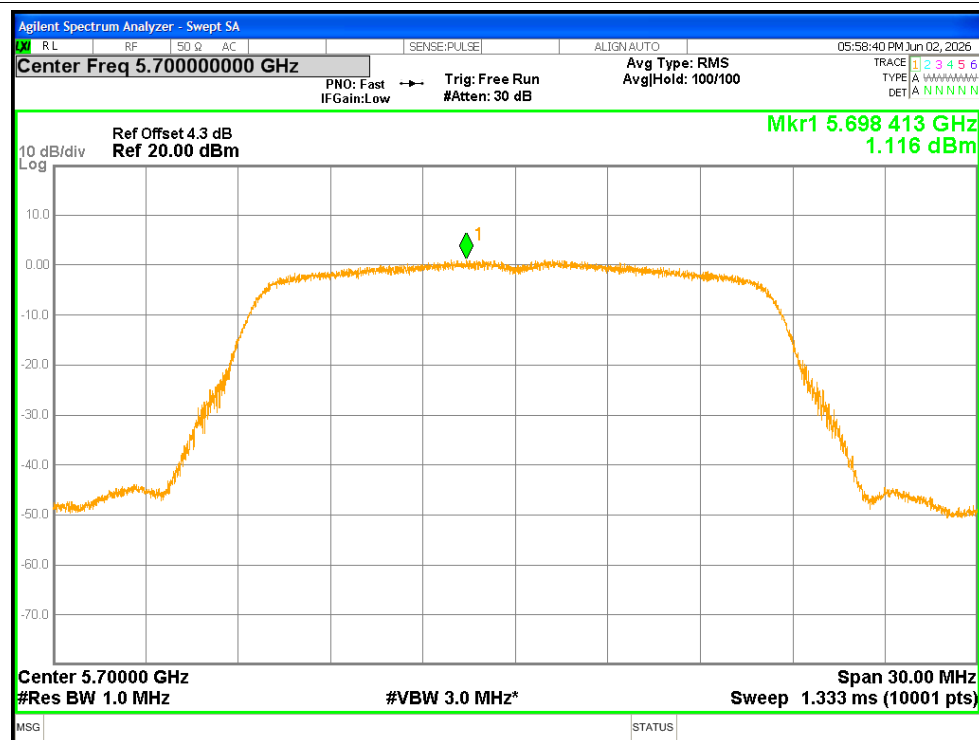
PSD NVNT a 5500MHz



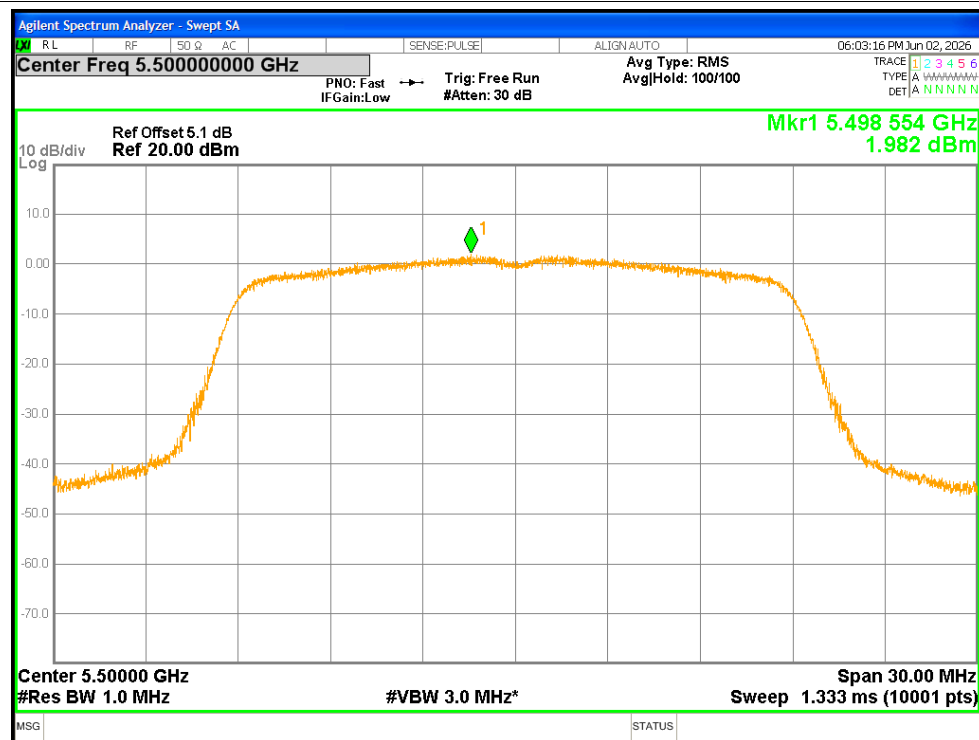
PSD NVNT a 5580MHz



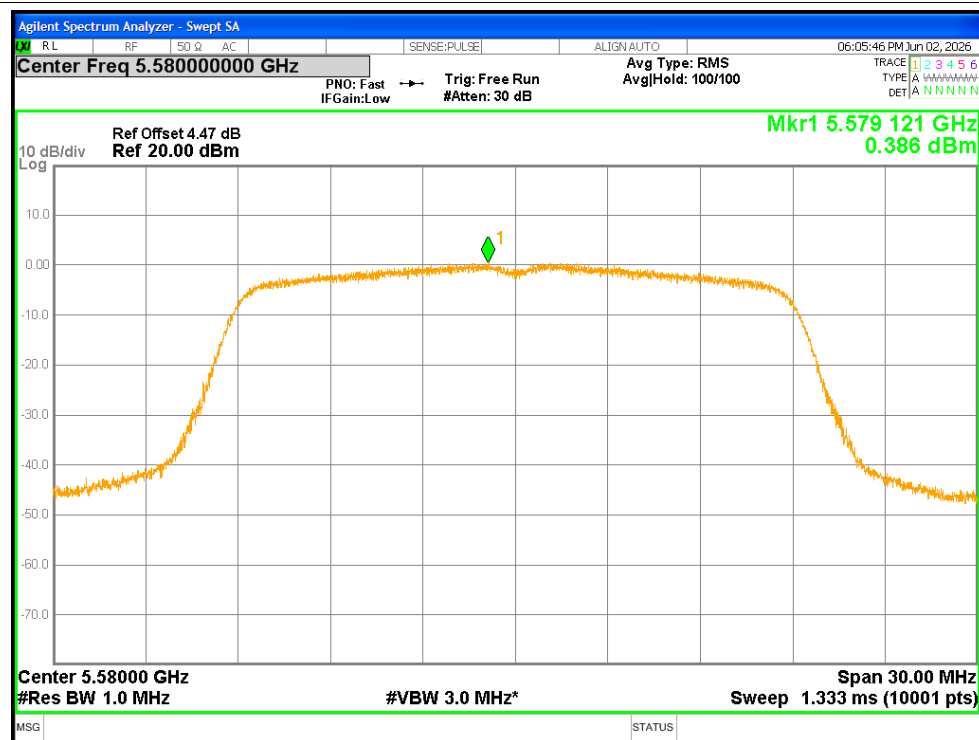
PSD NVNT a 5700MHz



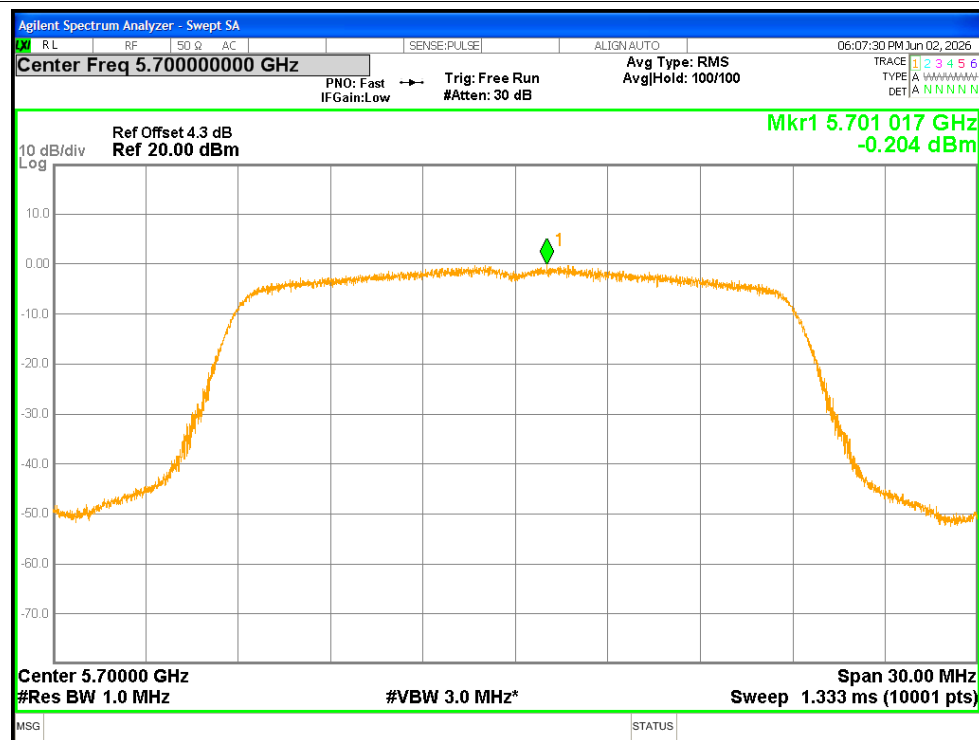
PSD NVNT n20 5500MHz



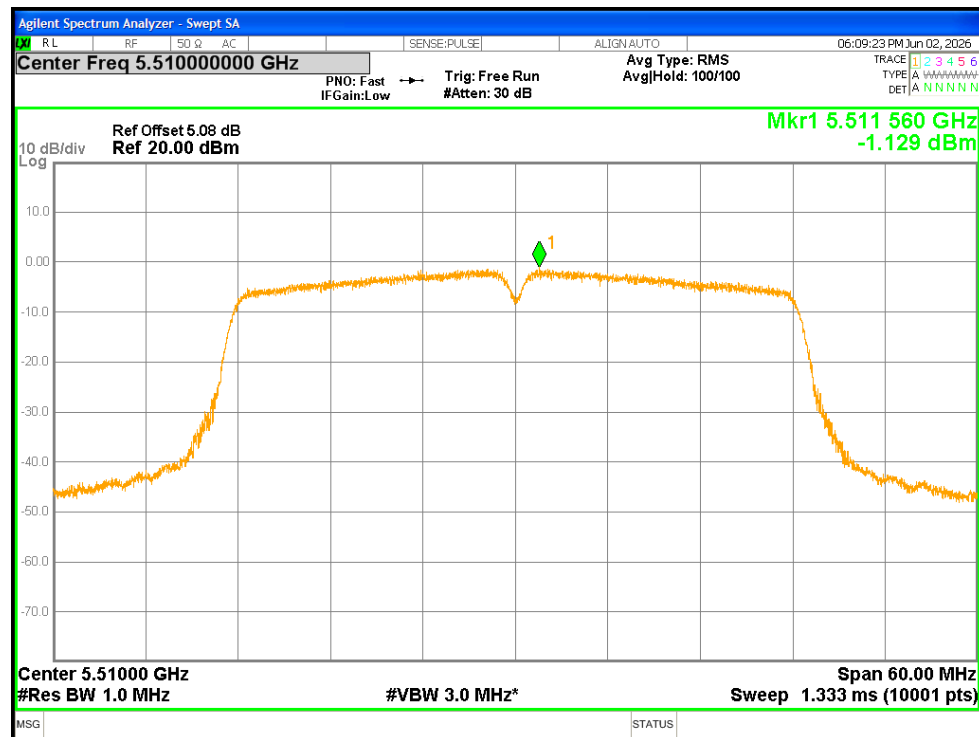
PSD NVNT n20 5580MHz



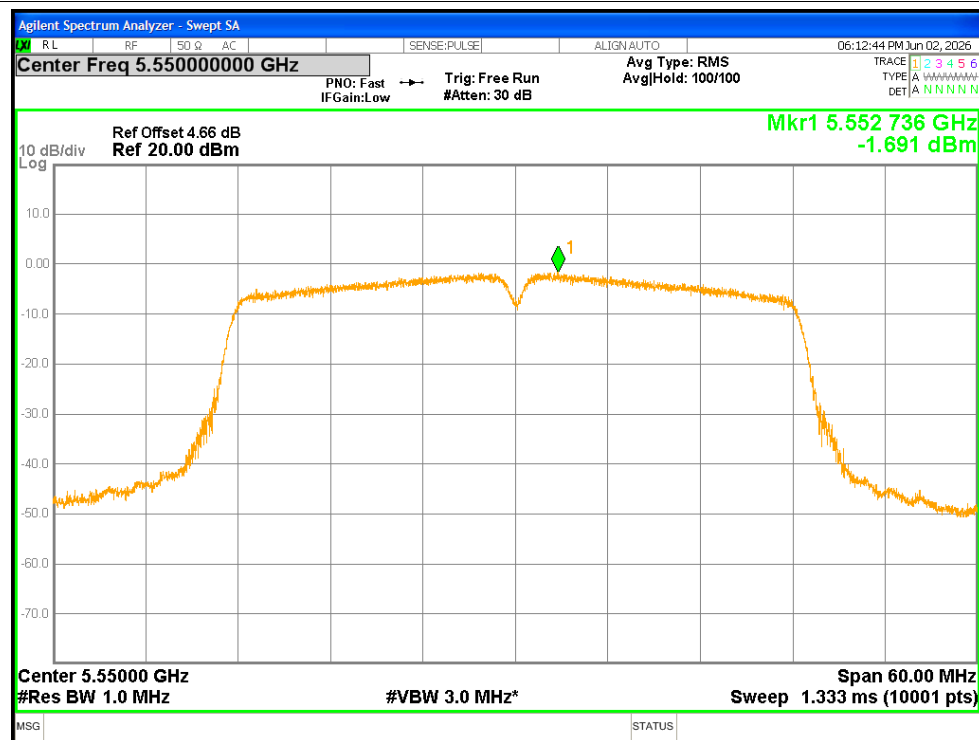
PSD NVNT n20 5700MHz



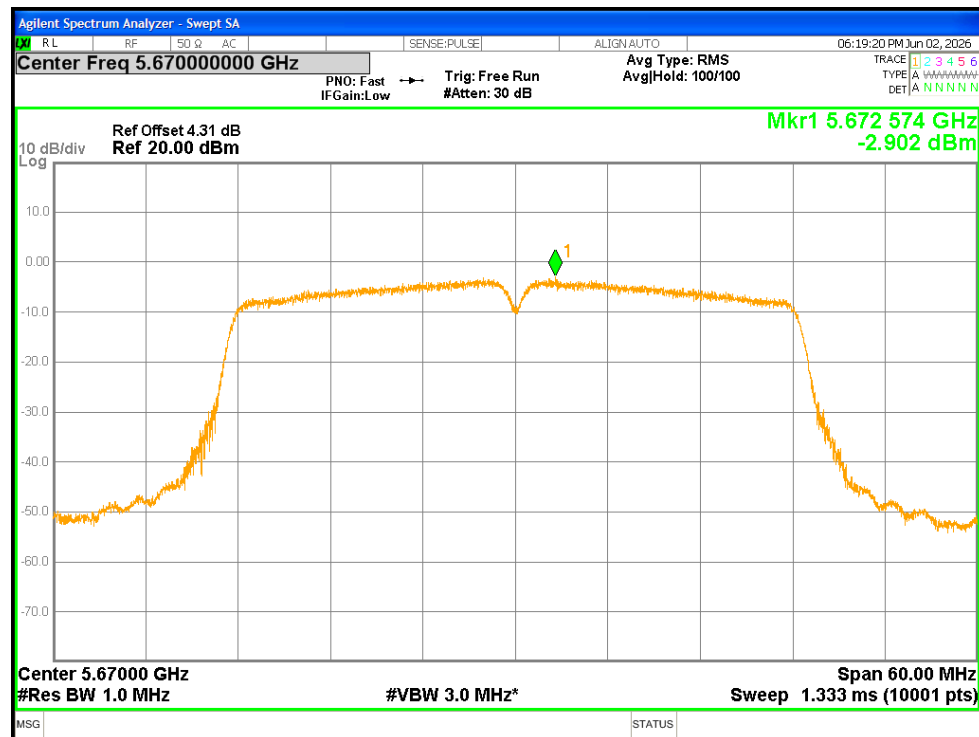
PSD NVNT n40 5510MHz



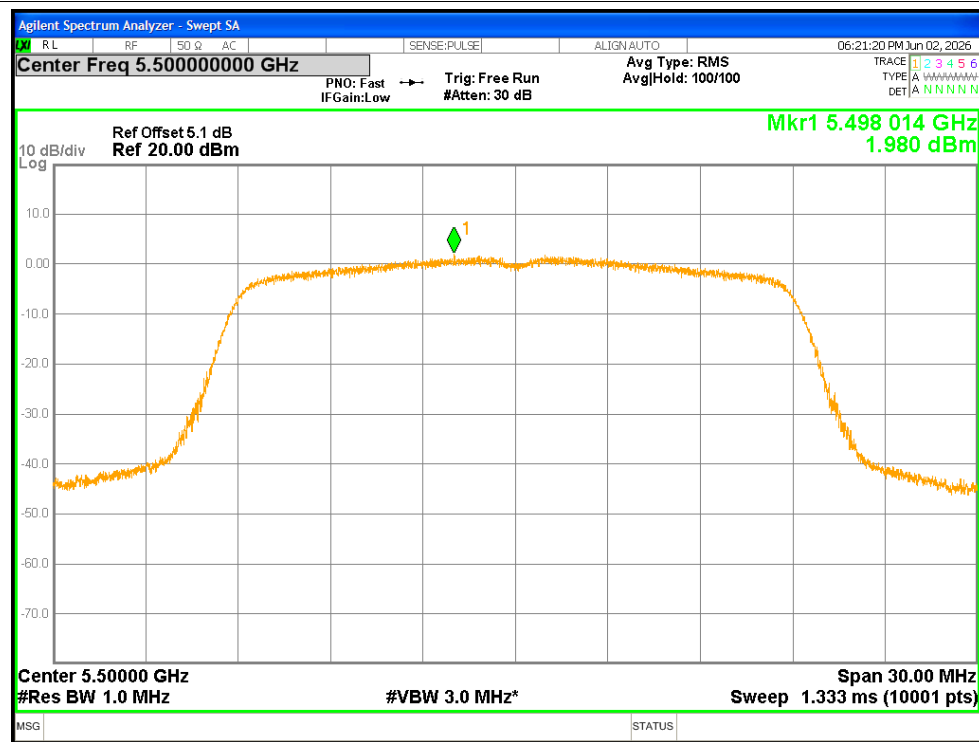
PSD NVNT n40 5550MHz



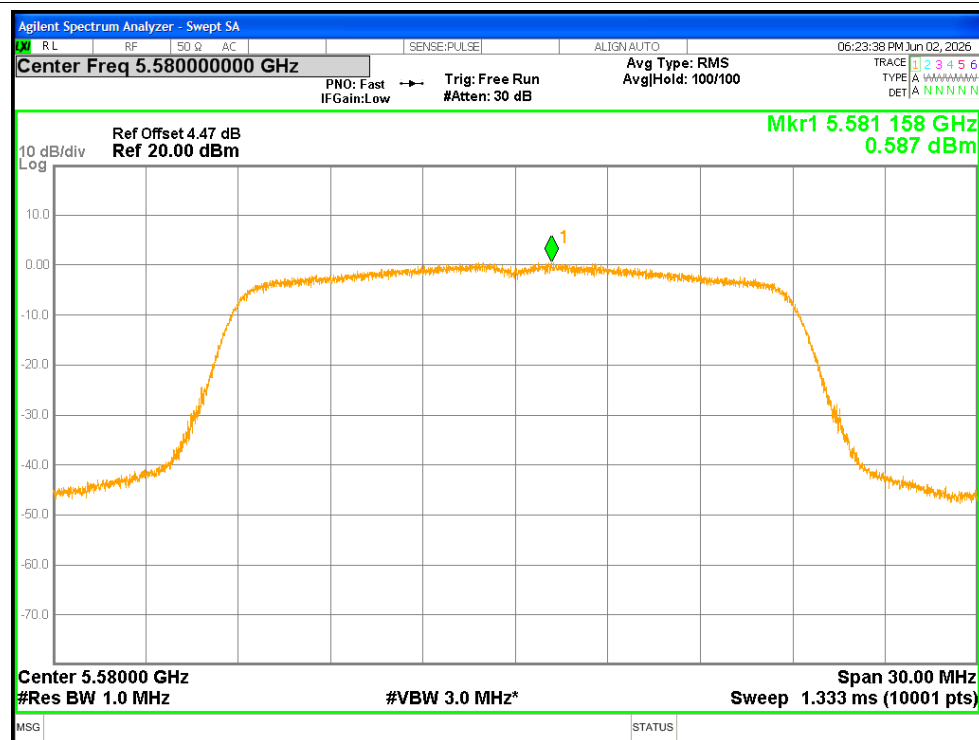
PSD NVNT n40 5670MHz



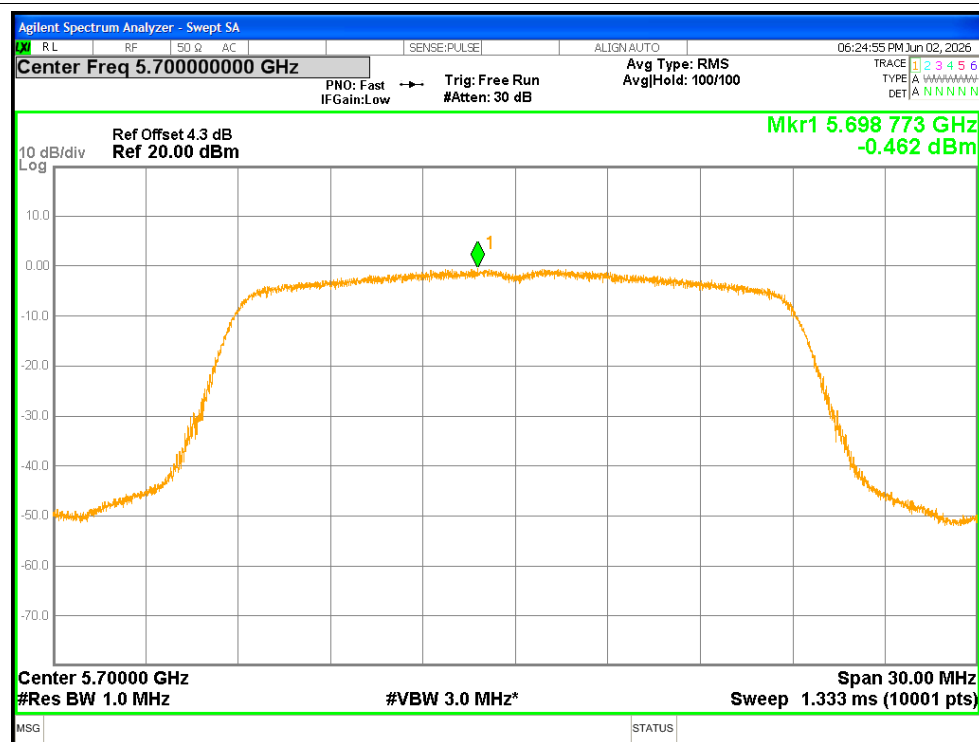
PSD NVNT ac20 5500MHz



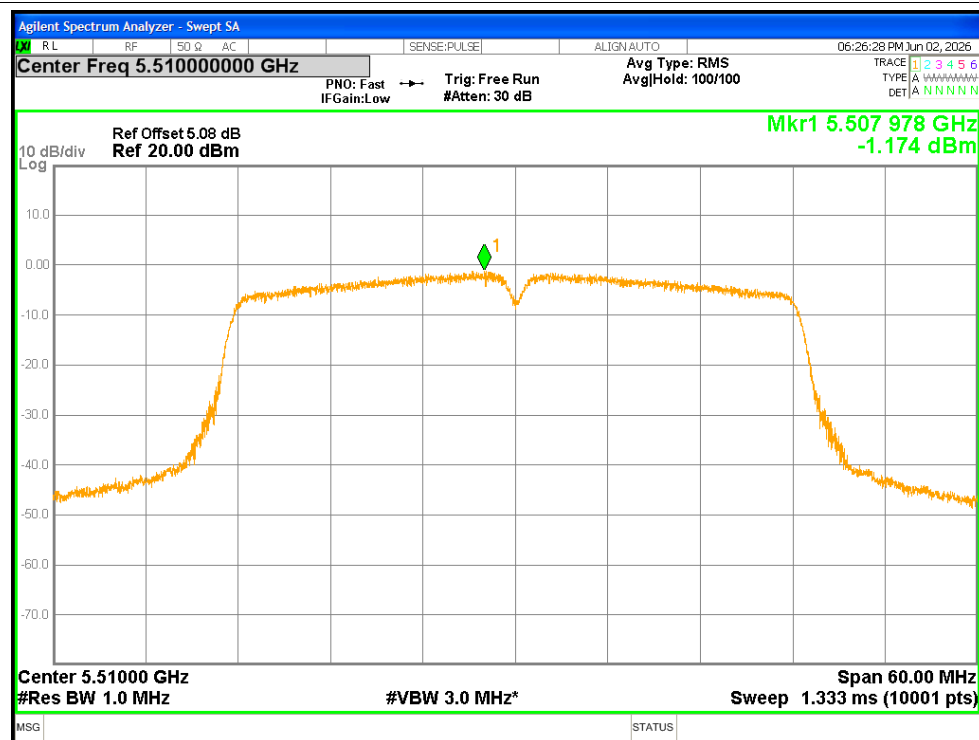
PSD NVNT ac20 5580MHz



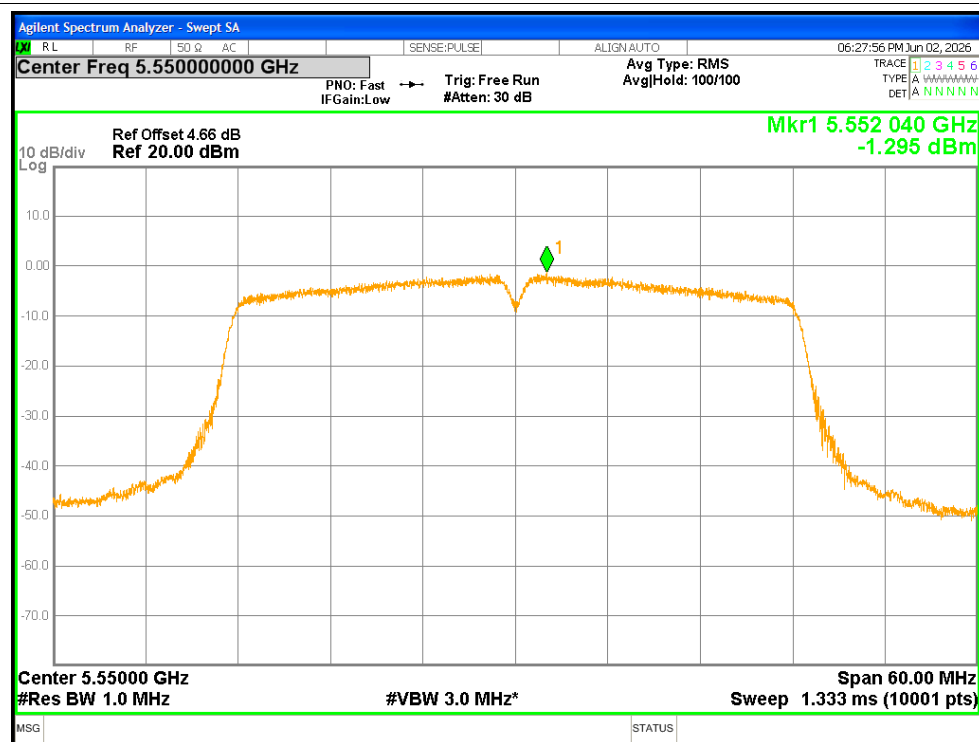
PSD NVNT ac20 5700MHz



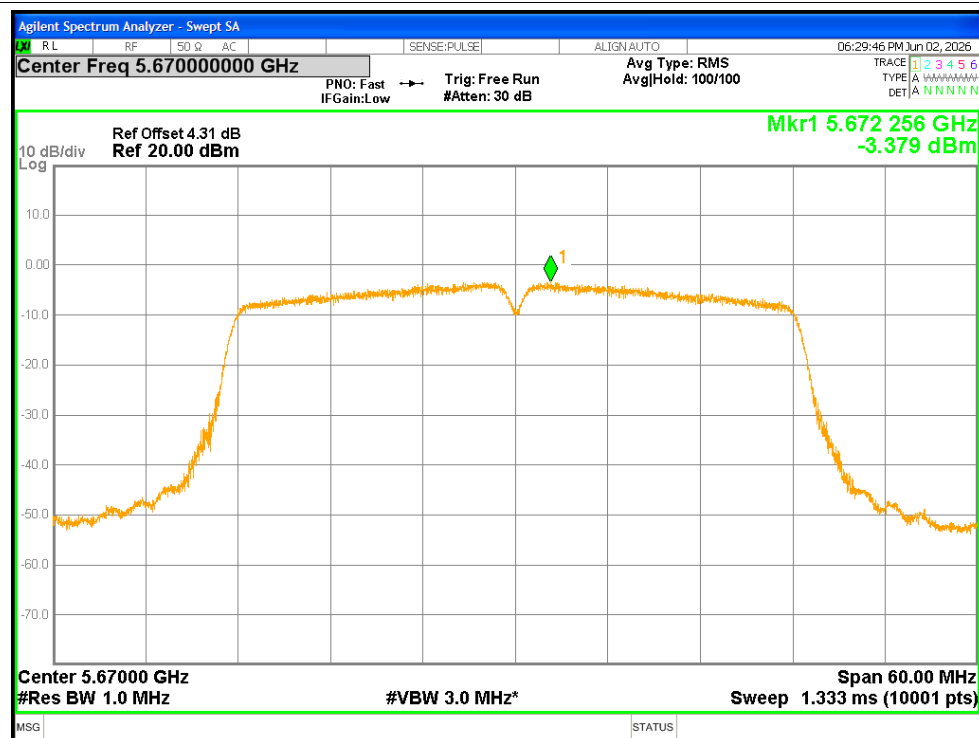
PSD NVNT ac40 5510MHz



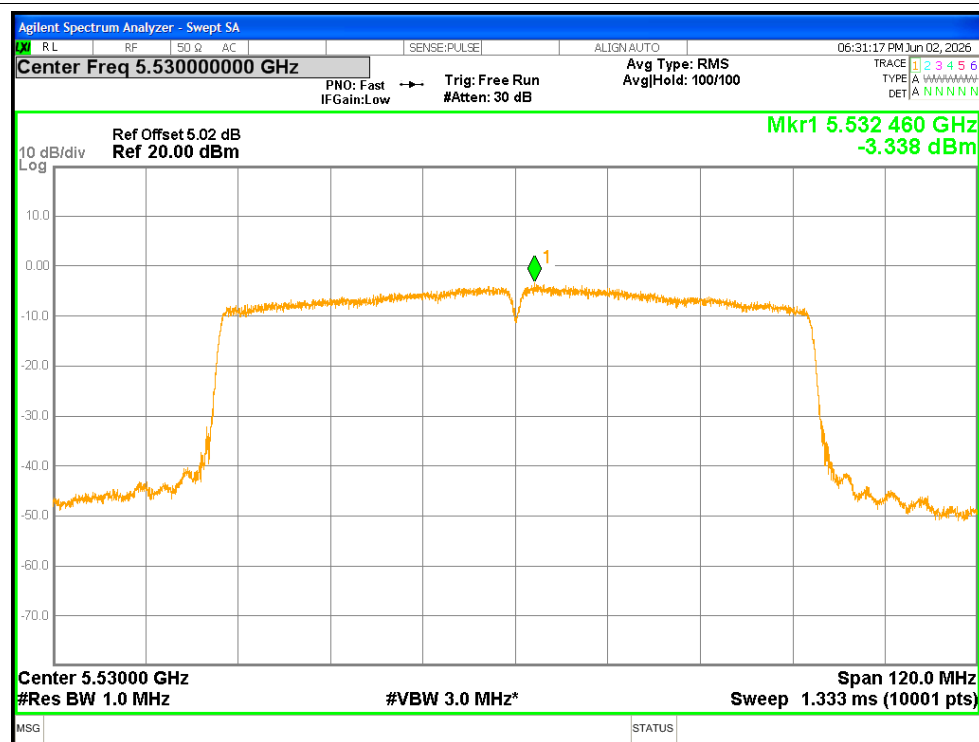
PSD NVNT ac40 5550MHz



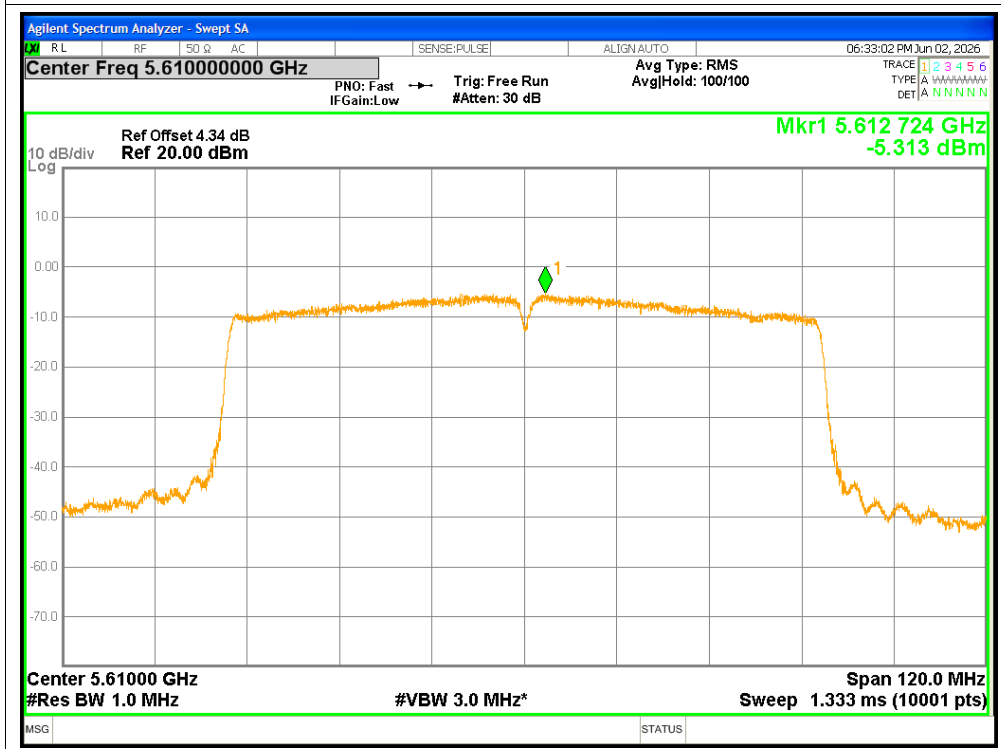
PSD NVNT ac40 5670MHz



PSD NVNT ac80 5530MHz



PSD NVNT ac80 5610MHz

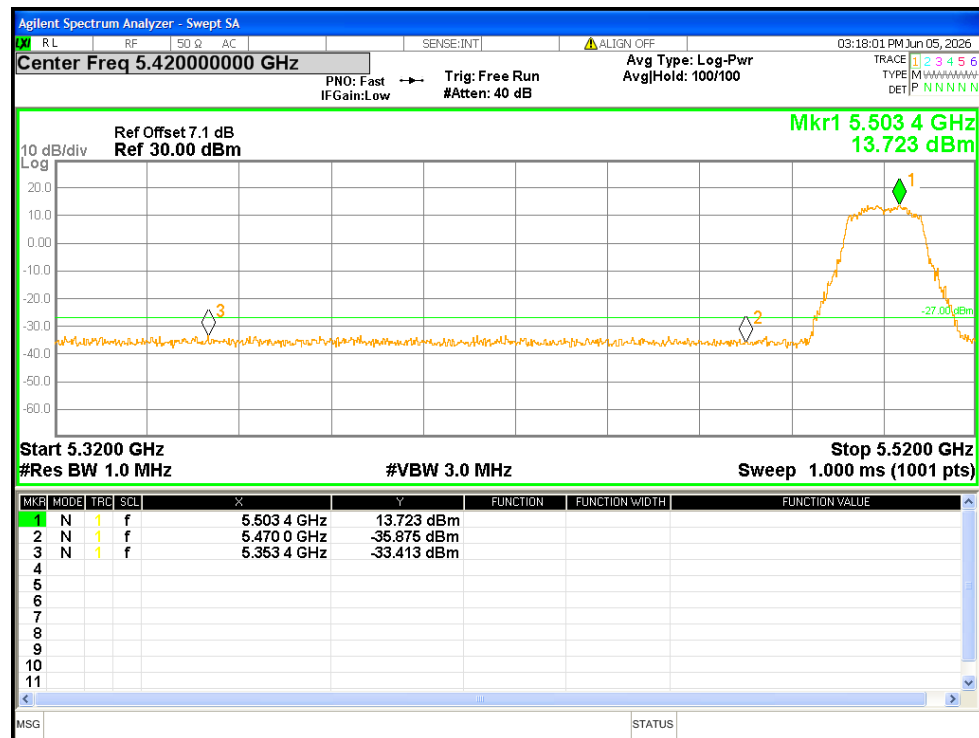


Band Edge

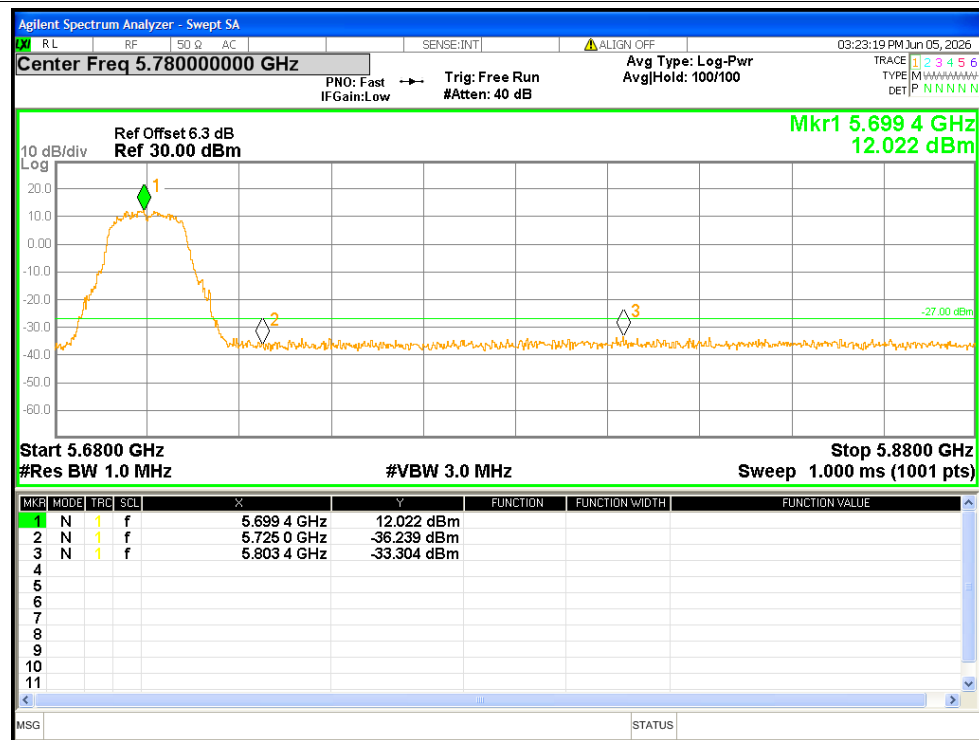
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
a	5500	-33.41	<=-27	Pass
a	5700	-33.3	<=-27	Pass
n20	5500	-33.01	<=-27	Pass
n20	5700	-33.33	<=-27	Pass
n40	5510	-40.89	<=-27	Pass
n40	5670	-42.98	<=-27	Pass
ac20	5500	-32.99	<=-27	Pass
ac20	5700	-33.65	<=-27	Pass
ac40	5510	-40.83	<=-27	Pass
ac40	5670	-42.82	<=-27	Pass
ac80	5530	-34.68	<=-27	Pass
ac80	5610	-41.67	<=-27	Pass

Test Graphs

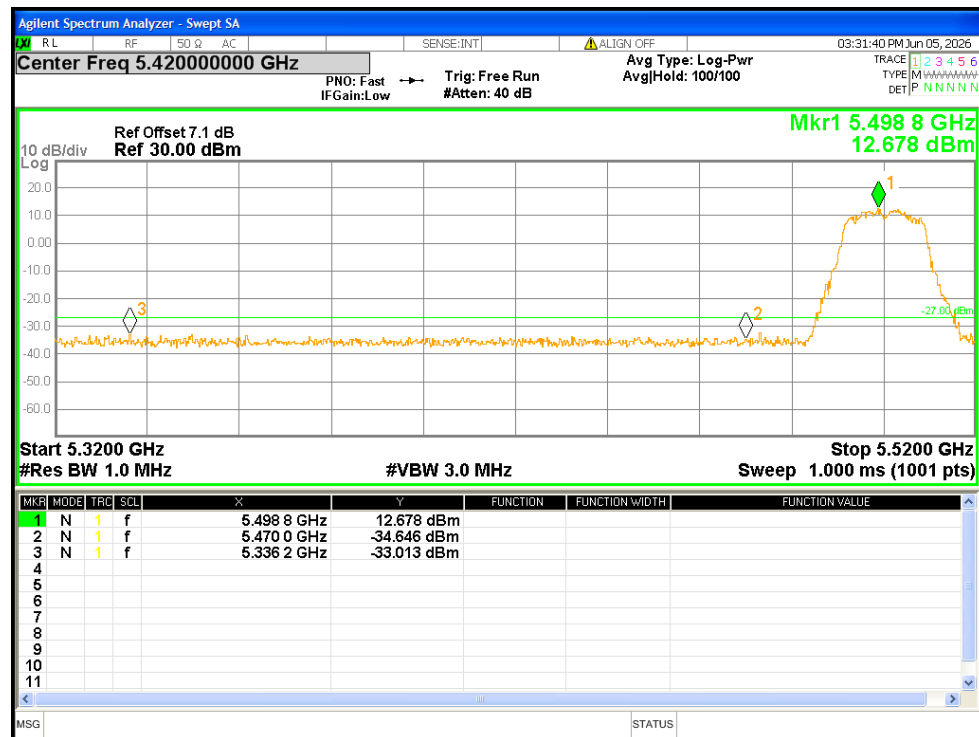
Band Edge NVNT a 5500MHz Low



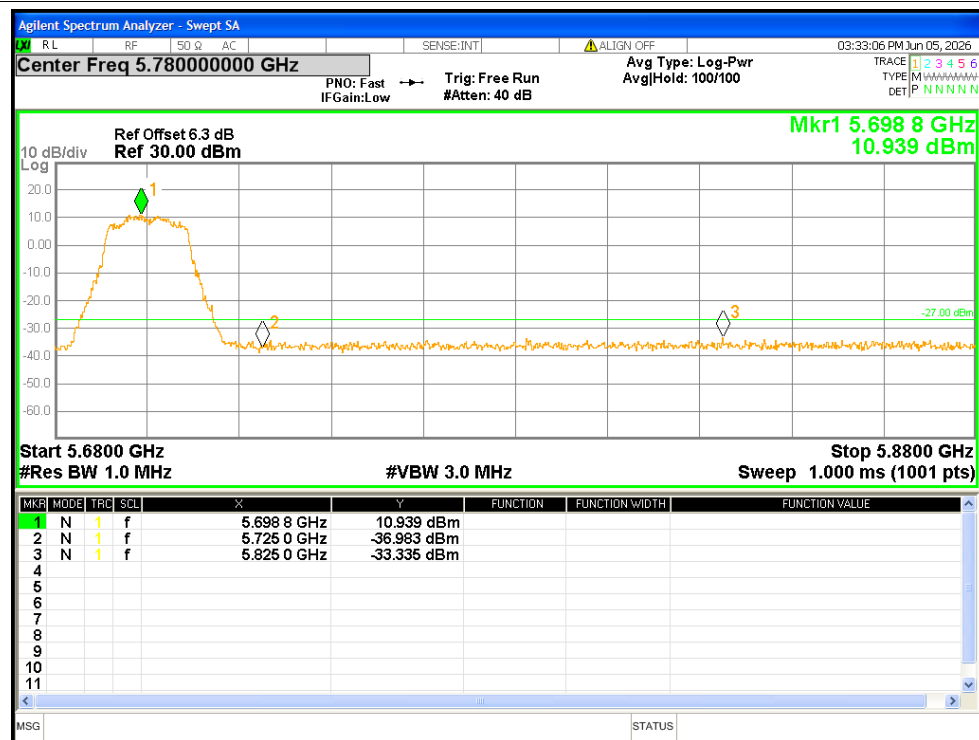
Band Edge NVNT a 5700MHz High



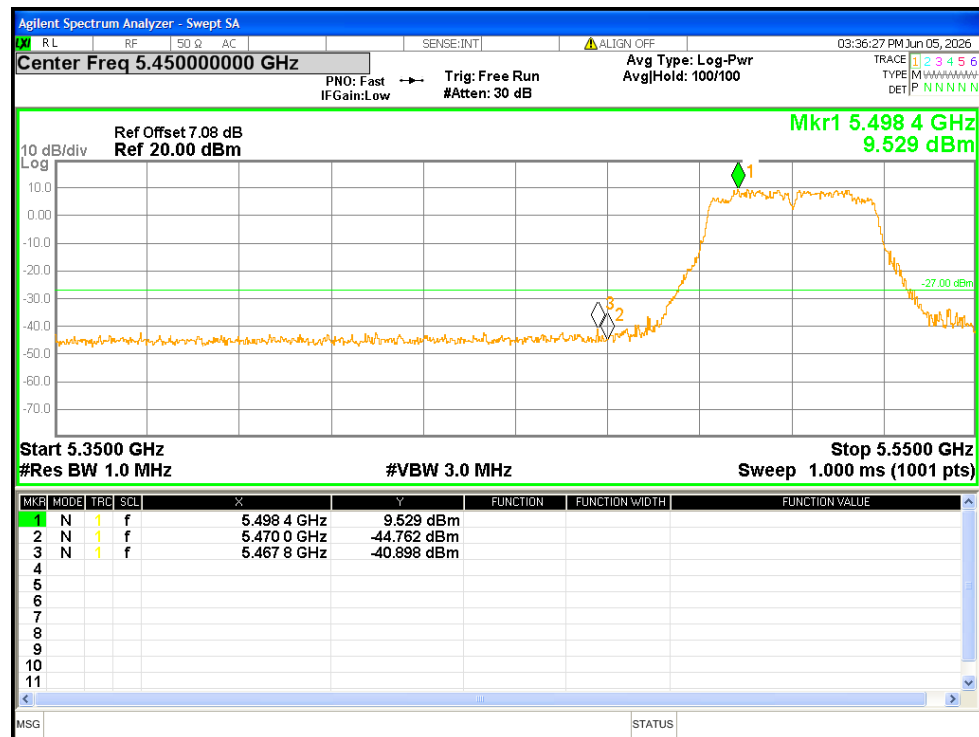
Band Edge NVNT n20 5500MHz Low



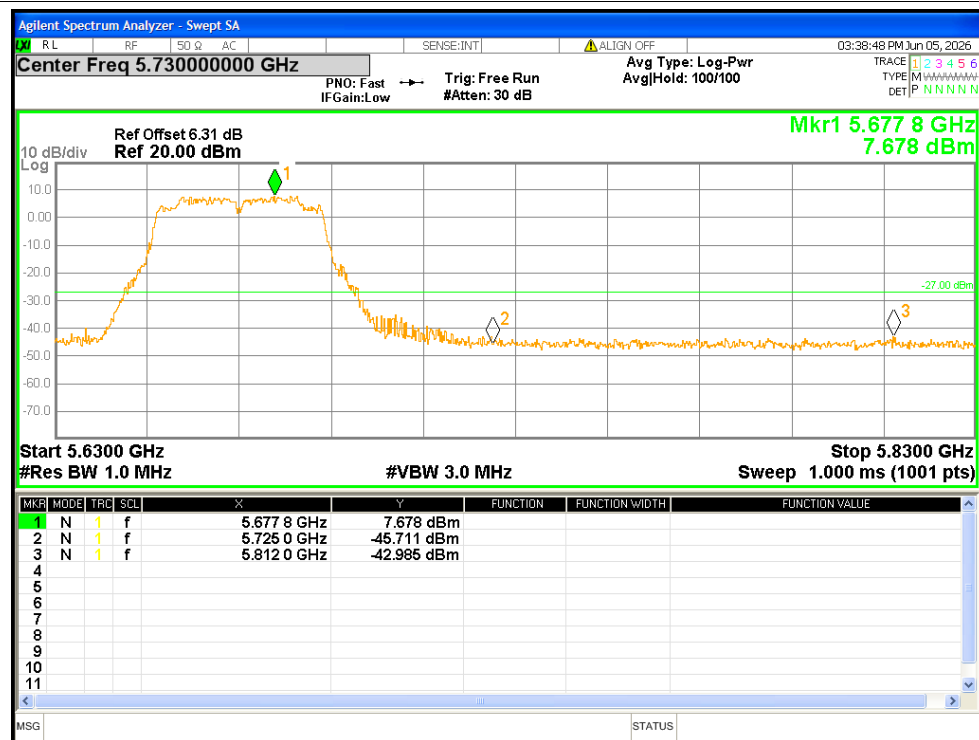
Band Edge NVNT n20 5700MHz High



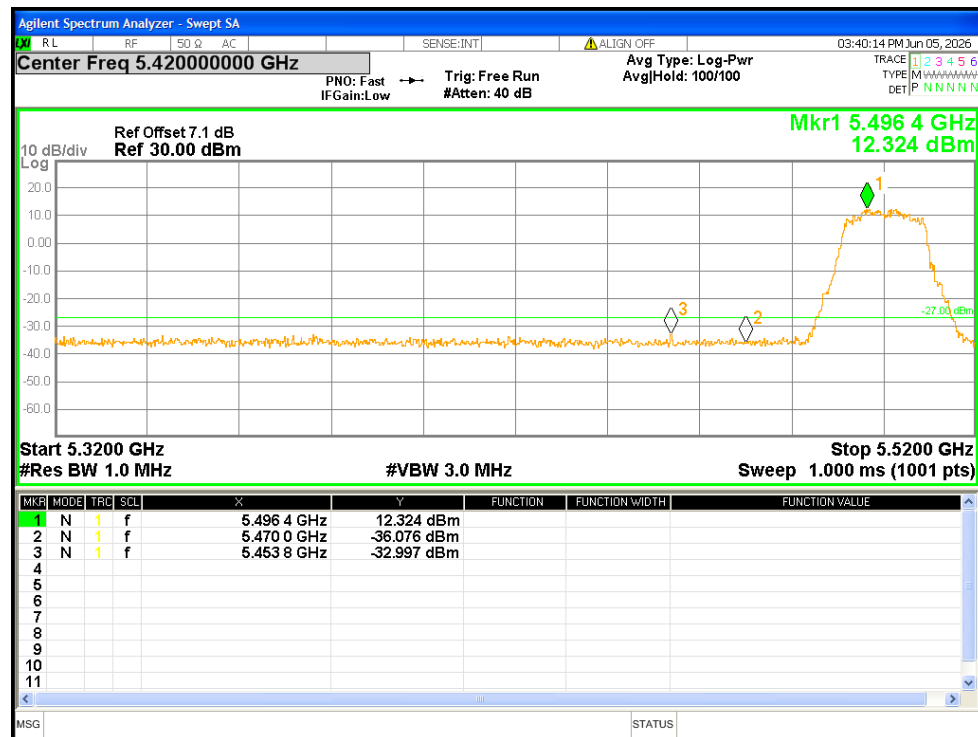
Band Edge NVNT n40 5510MHz Low



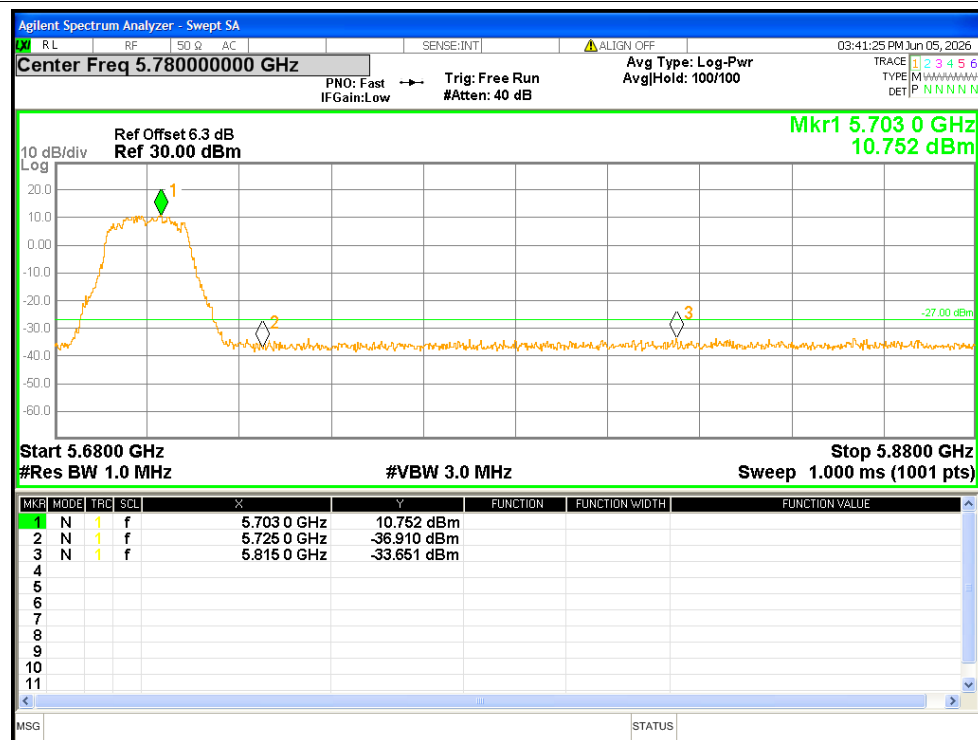
Band Edge NVNT n40 5670MHz High



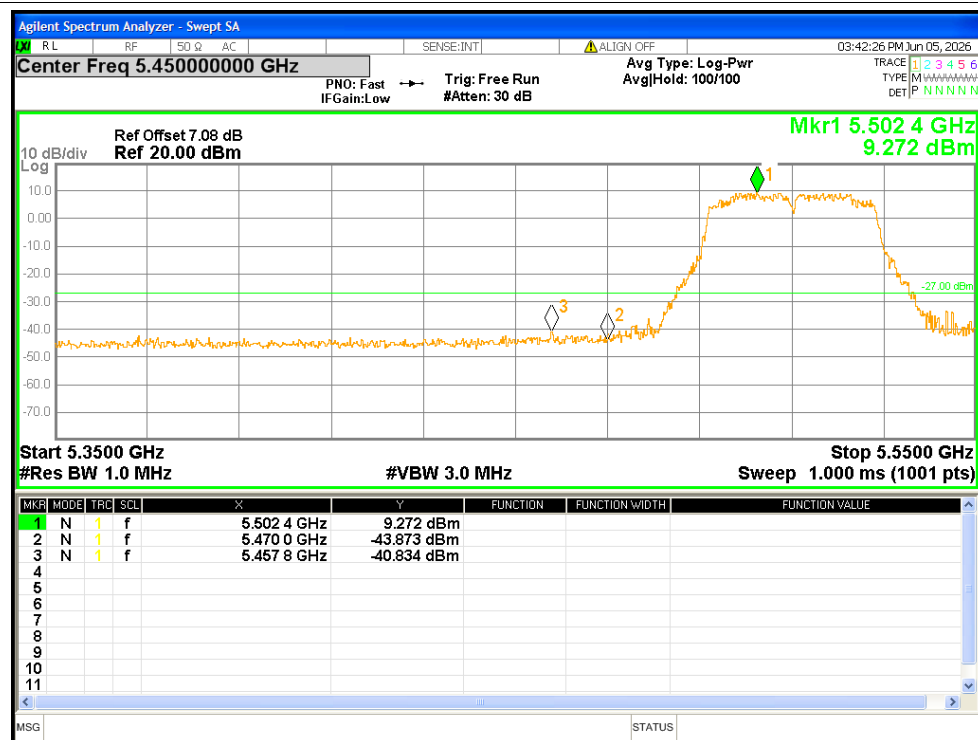
Band Edge NVNT ac20 5500MHz Low



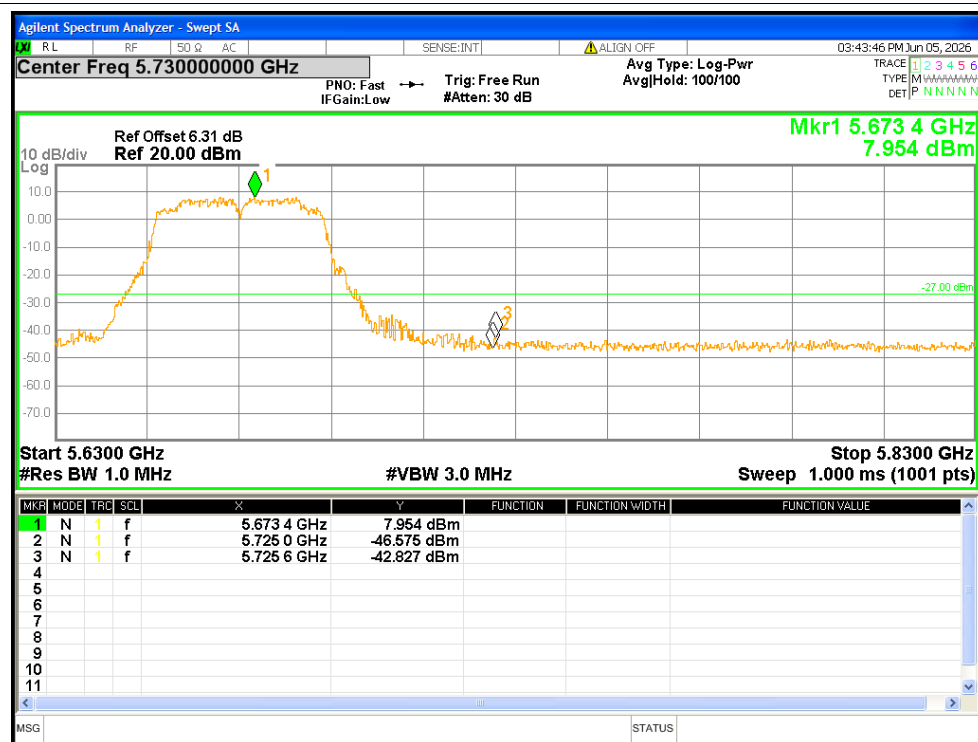
Band Edge NVNT ac20 5700MHz High



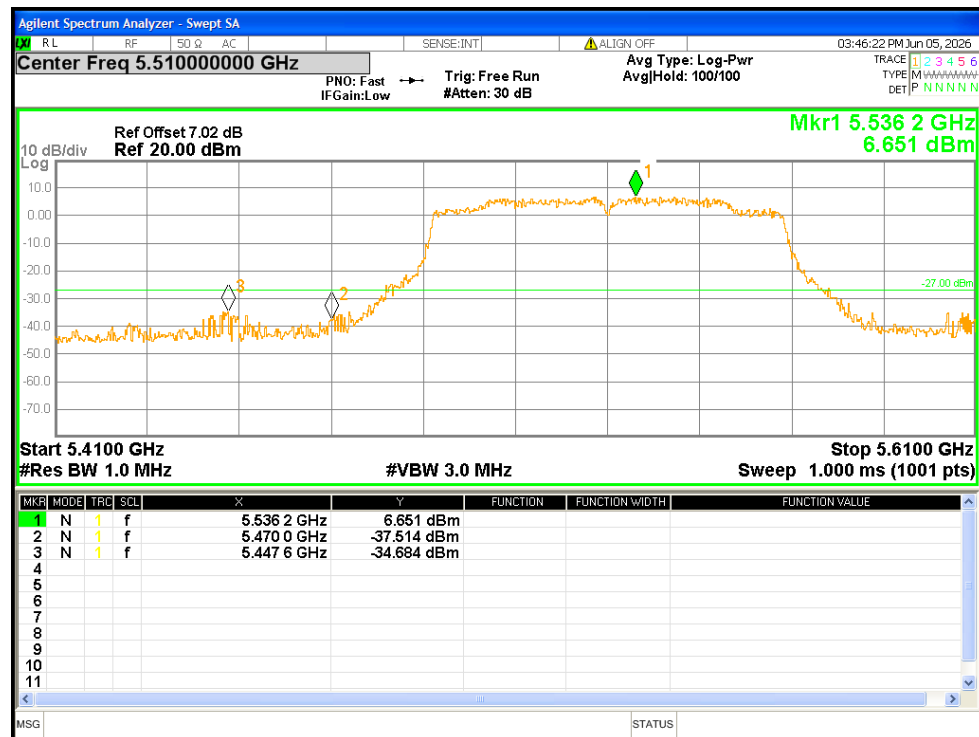
Band Edge NVNT ac40 5510MHz Low



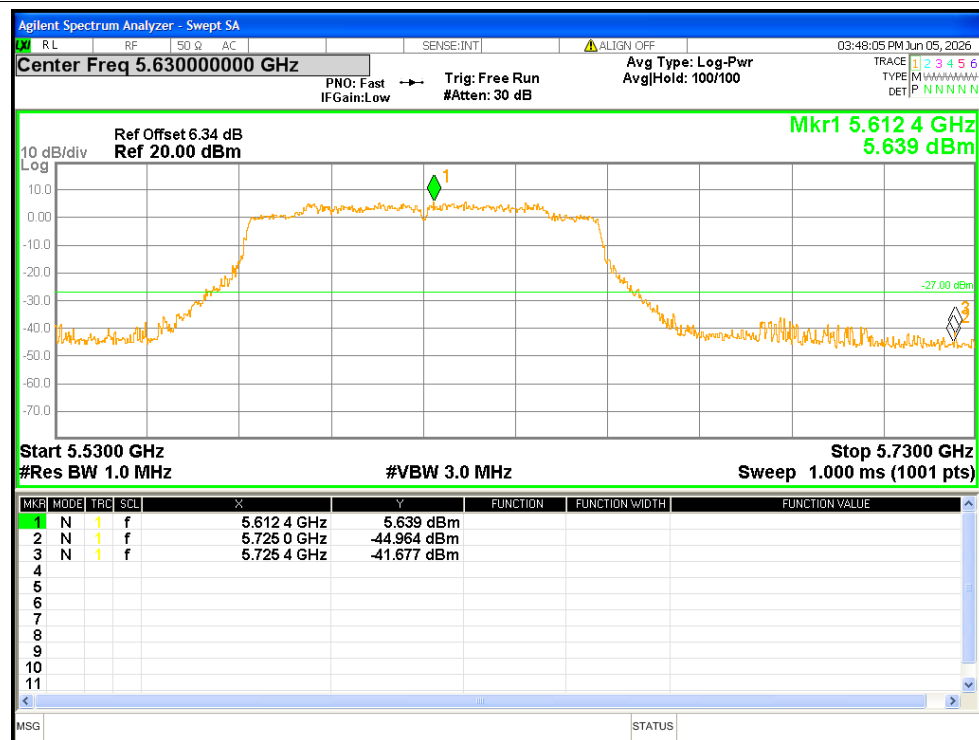
Band Edge NVNT ac40 5670MHz High



Band Edge NVNT ac80 5530MHz Low



Band Edge NVNT ac80 5610MHz High



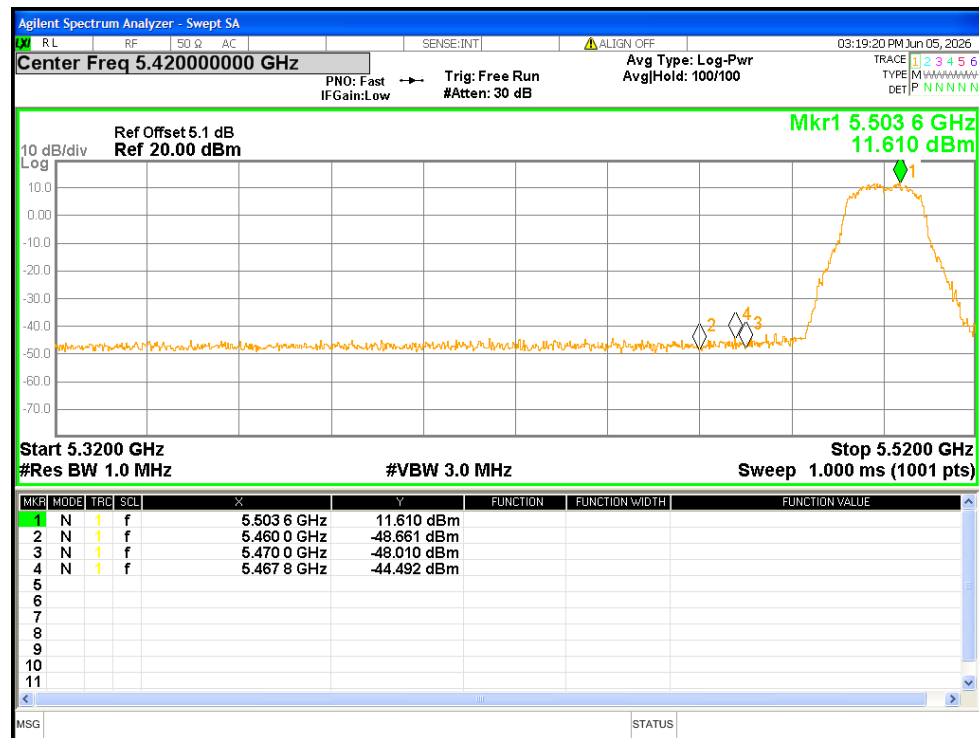
Restrict Band

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5500	5460	-48.66	2	0	48.57	Peak	<=68.2	Pass
a	5500	5460	-55.43	2	0.11	41.91	Average	<=54	Pass
a	5500	5467.8	-44.49	2	0	52.74	Peak	<=68.2	Pass
a	5500	5466	-54.16	2	0.11	43.18	Average	<=54	Pass
a	5500	5470	-48.01	2	0	49.22	Peak	<=68.2	Pass
a	5500	5470	-54.71	2	0.11	42.63	Average	<=54	Pass
a	5700	5725	-45.94	2	0	51.29	Peak	<=68.2	Pass
a	5700	5725	-54.87	2	0.11	42.47	Average	<=54	Pass
a	5700	5729.2	-44.74	2	0	52.49	Peak	<=68.2	Pass
a	5700	5725.8	-54.51	2	0.11	42.83	Average	<=54	Pass
a	5700	5735	-47.94	2	0	49.29	Peak	<=68.2	Pass
a	5700	5735	-55.34	2	0.11	42	Average	<=54	Pass
n20	5500	5460	-46.46	2	0	50.77	Peak	<=68.2	Pass
n20	5500	5460	-55.36	2	0.11	41.98	Average	<=54	Pass
n20	5500	5466.4	-44.43	2	0	52.8	Peak	<=68.2	Pass
n20	5500	5467	-54.32	2	0.11	43.02	Average	<=54	Pass
n20	5500	5470	-46.59	2	0	50.64	Peak	<=68.2	Pass
n20	5500	5470	-54.92	2	0.11	42.42	Average	<=54	Pass
n20	5700	5725	-45.94	2	0	51.29	Peak	<=68.2	Pass
n20	5700	5725	-55.12	2	0.12	42.23	Average	<=54	Pass
n20	5700	5728.6	-44.93	2	0	52.3	Peak	<=68.2	Pass
n20	5700	5725.6	-54.81	2	0.12	42.54	Average	<=54	Pass
n20	5700	5735	-47.46	2	0	49.77	Peak	<=68.2	Pass
n20	5700	5735	-56	2	0.12	41.35	Average	<=54	Pass
n40	5510	5460	-45.09	2	0	52.14	Peak	<=68.2	Pass
n40	5510	5460	-54.64	2	0.22	42.81	Average	<=54	Pass
n40	5510	5466.4	-43.35	2	0	53.88	Peak	<=68.2	Pass
n40	5510	5468.6	-53.74	2	0.22	43.71	Average	<=54	Pass
n40	5510	5470	-46.45	2	0	50.78	Peak	<=68.2	Pass
n40	5510	5470	-54.54	2	0.22	42.91	Average	<=54	Pass
n40	5670	5725	-48.22	2	0	49.01	Peak	<=68.2	Pass
n40	5670	5725	-55.87	2	0.22	41.58	Average	<=54	Pass
n40	5670	5729	-45.01	2	0	52.22	Peak	<=68.2	Pass
n40	5670	5732.4	-55.26	2	0.22	42.19	Average	<=54	Pass
n40	5670	5735	-45.79	2	0	51.44	Peak	<=68.2	Pass
n40	5670	5735	-56.34	2	0.22	41.11	Average	<=54	Pass
ac20	5500	5460	-47.28	2	0	49.95	Peak	<=68.2	Pass
ac20	5500	5460	-55.4	2	0.12	41.95	Average	<=54	Pass
ac20	5500	5468	-43.96	2	0	53.27	Peak	<=68.2	Pass

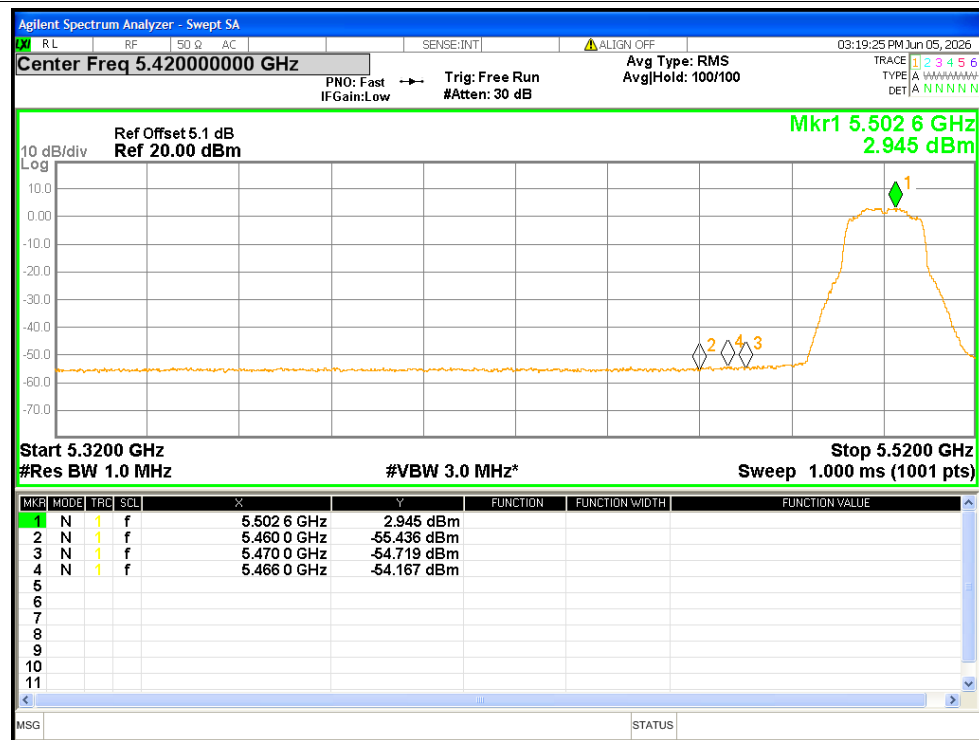
ac20	5500	5462.2	-54.25	2	0.12	43.1	Average	<=54	Pass
ac20	5500	5470	-46.75	2	0	50.48	Peak	<=68.2	Pass
ac20	5500	5470	-54.44	2	0.12	42.91	Average	<=54	Pass
ac20	5700	5725	-47.69	2	0	49.54	Peak	<=68.2	Pass
ac20	5700	5725	-55.19	2	0.12	42.16	Average	<=54	Pass
ac20	5700	5727.4	-43.81	2	0	53.42	Peak	<=68.2	Pass
ac20	5700	5727.6	-54.65	2	0.12	42.7	Average	<=54	Pass
ac20	5700	5735	-48.37	2	0	48.86	Peak	<=68.2	Pass
ac20	5700	5735	-55.66	2	0.12	41.69	Average	<=54	Pass
ac40	5510	5460	-46.32	2	0	50.91	Peak	<=68.2	Pass
ac40	5510	5460	-54.06	2	0.23	43.4	Average	<=54	Pass
ac40	5510	5466.8	-43.56	2	0	53.67	Peak	<=68.2	Pass
ac40	5510	5465.2	-53.26	2	0.23	44.2	Average	<=54	Pass
ac40	5510	5470	-45.33	2	0	51.9	Peak	<=68.2	Pass
ac40	5510	5470	-54.1	2	0.23	43.36	Average	<=54	Pass
ac40	5670	5725	-47.25	2	0	49.98	Peak	<=68.2	Pass
ac40	5670	5725	-56.15	2	0.23	41.31	Average	<=54	Pass
ac40	5670	5734.4	-45.17	2	0	52.06	Peak	<=68.2	Pass
ac40	5670	5727.2	-55.27	2	0.23	42.19	Average	<=54	Pass
ac40	5670	5735	-48.73	2	0	48.5	Peak	<=68.2	Pass
ac40	5670	5735	-56.13	2	0.23	41.33	Average	<=54	Pass
ac80	5530	5460	-44.92	2	0	52.31	Peak	<=68.2	Pass
ac80	5530	5460	-53.86	2	0.43	43.8	Average	<=54	Pass
ac80	5530	5465.8	-38.96	2	0	58.27	Peak	<=68.2	Pass
ac80	5530	5466.2	-52.41	2	0.43	45.25	Average	<=54	Pass
ac80	5530	5470	-43.54	2	0	53.69	Peak	<=68.2	Pass
ac80	5530	5470	-52.92	2	0.43	44.74	Average	<=54	Pass
ac80	5610	5725	-47.72	2	0	49.51	Peak	<=68.2	Pass
ac80	5610	5725	-56.54	2	0.43	41.12	Average	<=54	Pass
ac80	5610	5734.59	-46.09	2	0	51.14	Peak	<=68.2	Pass
ac80	5610	5734.18	-55.73	2	0.43	41.93	Average	<=54	Pass
ac80	5610	5735	-48.51	2	0	48.72	Peak	<=68.2	Pass
ac80	5610	5735	-56.53	2	0.43	41.13	Average	<=54	Pass

Test Graphs

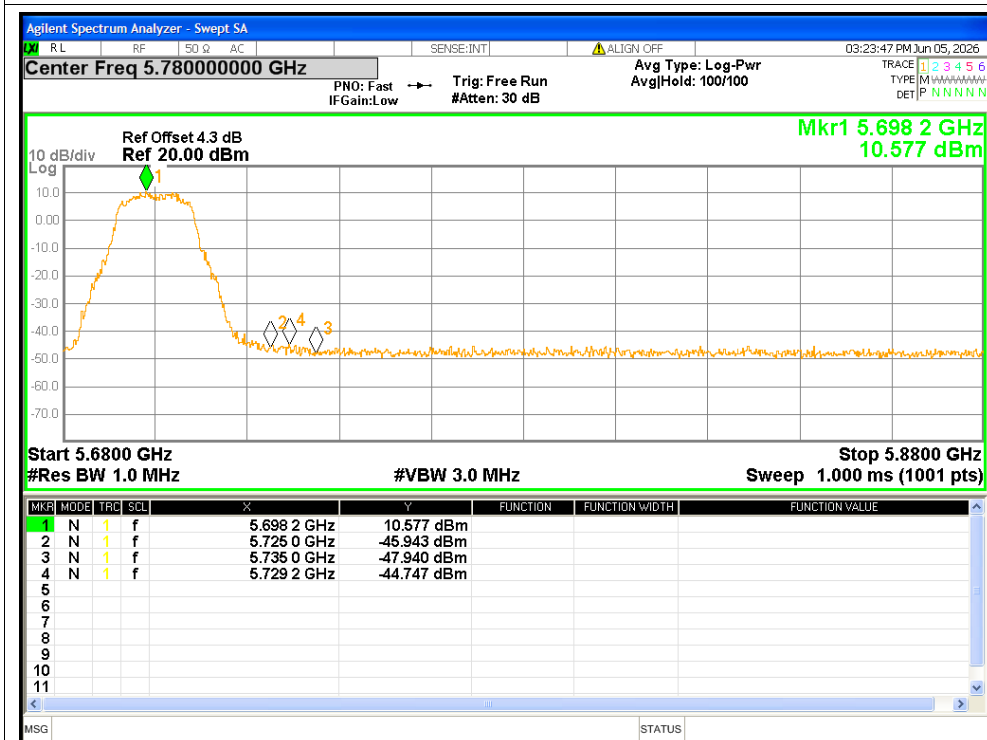
Restrict Band NVNT a 5500MHz Peak



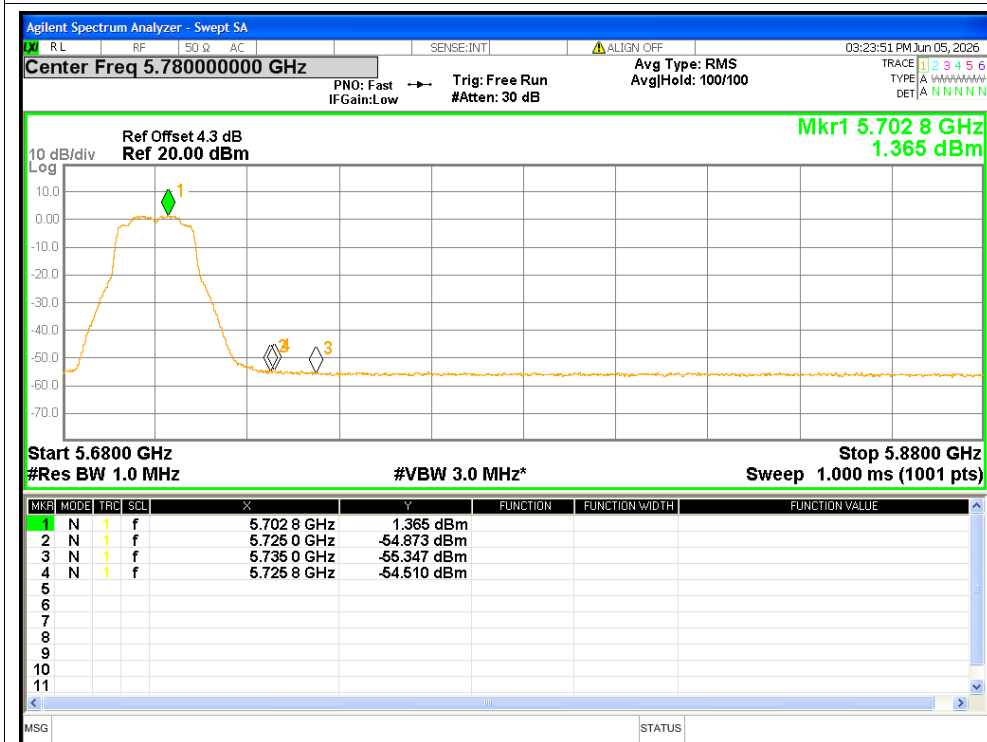
Restrict Band NVNT a 5500MHz Average



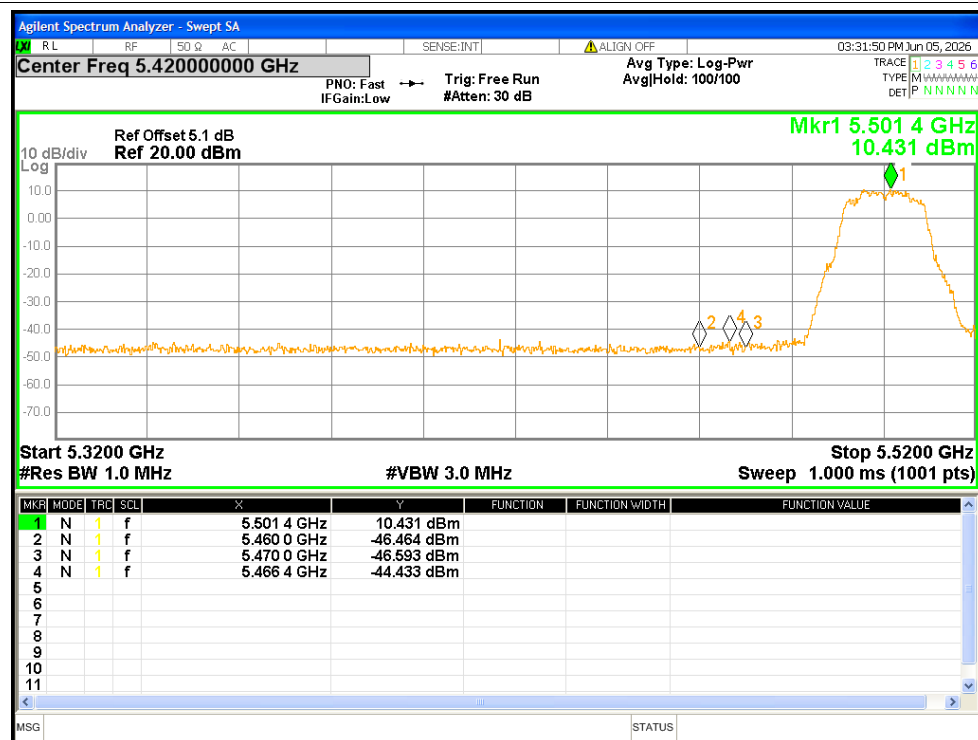
Restrict Band NVNT a 5700MHz Peak



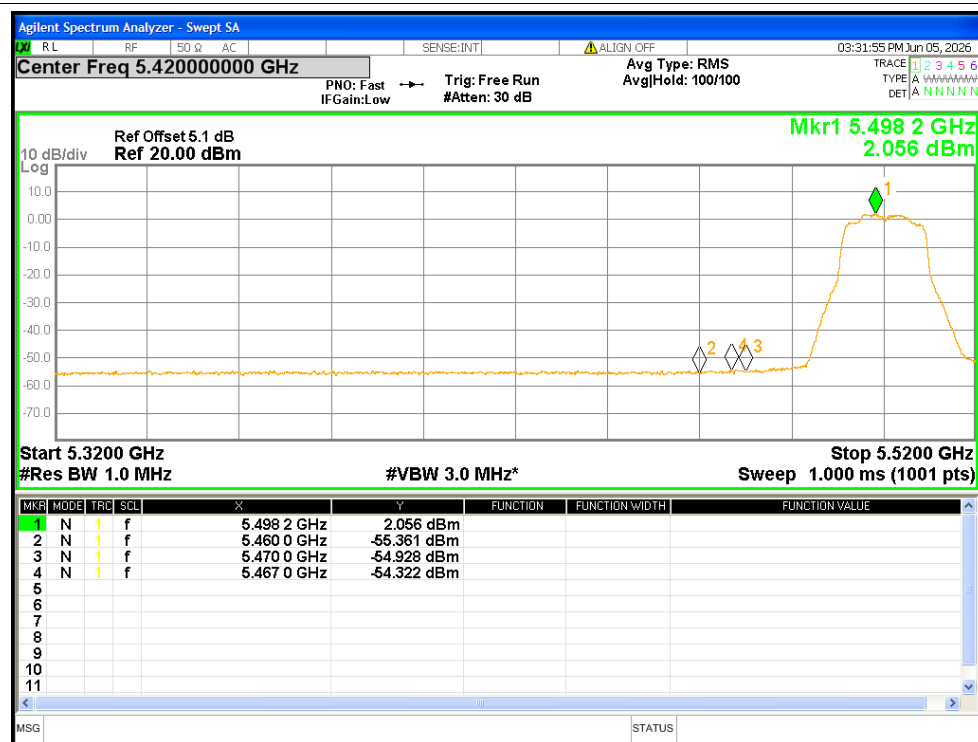
Restrict Band NVNT a 5700MHz Average



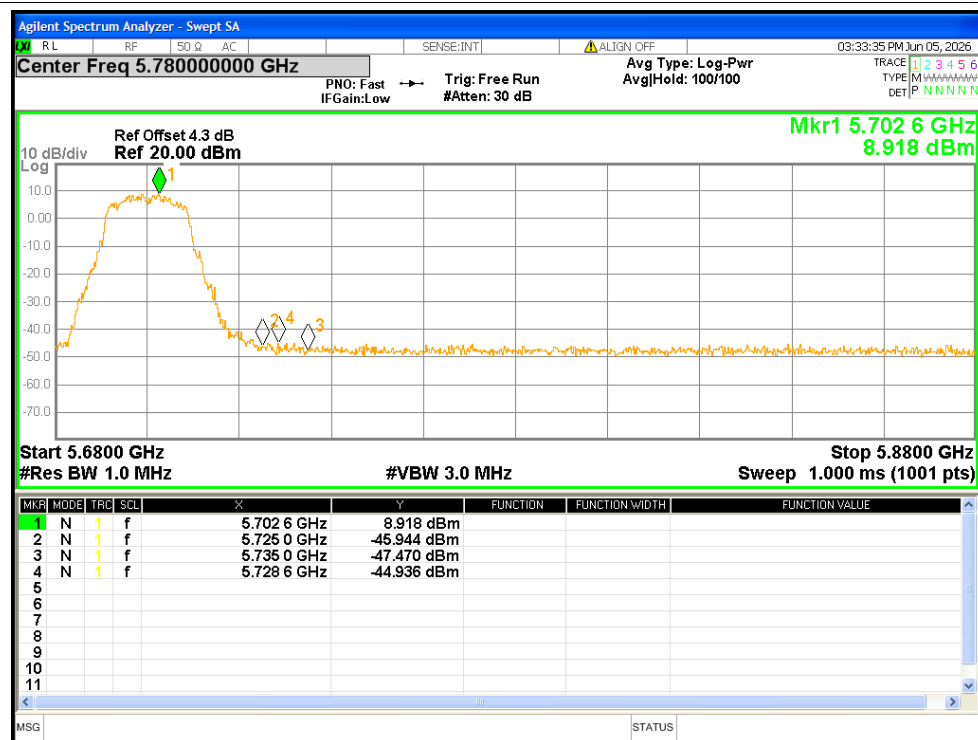
Restrict Band NVNT n20 5500MHz Peak



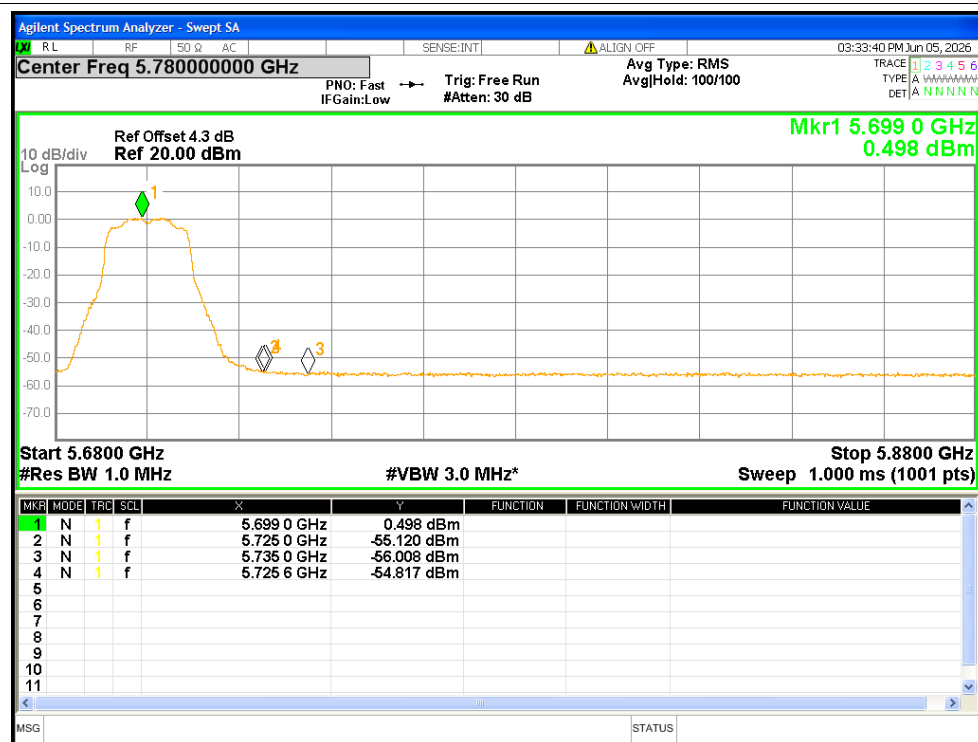
Restrict Band NVNT n20 5500MHz Average



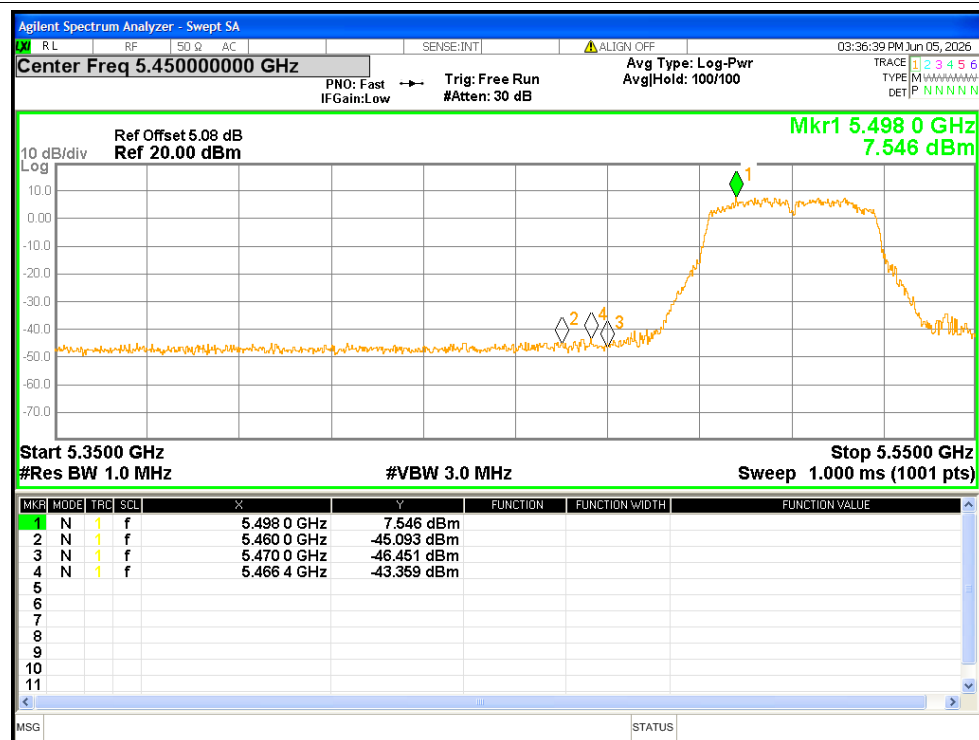
Restrict Band NVNT n20 5700MHz Peak



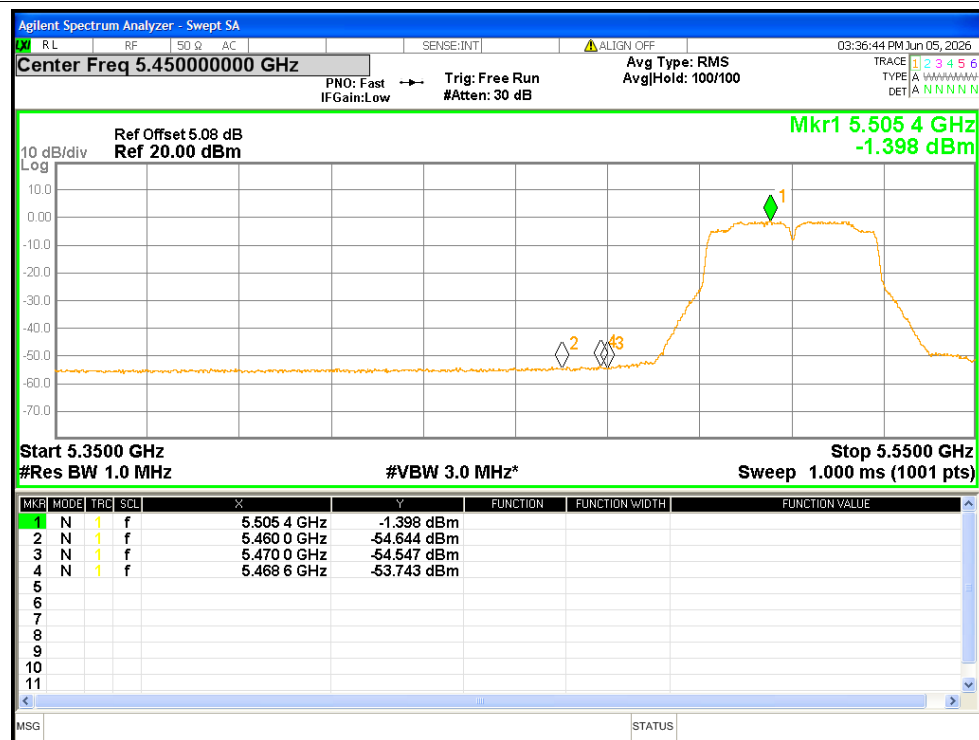
Restrict Band NVNT n20 5700MHz Average



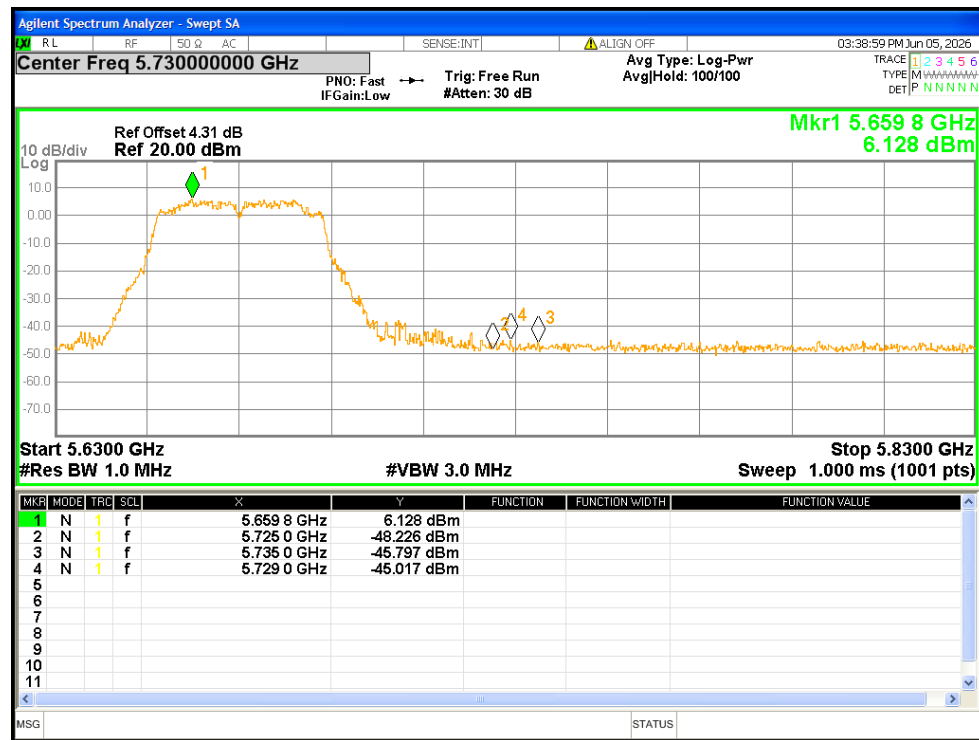
Restrict Band NVNT n40 5510MHz Peak



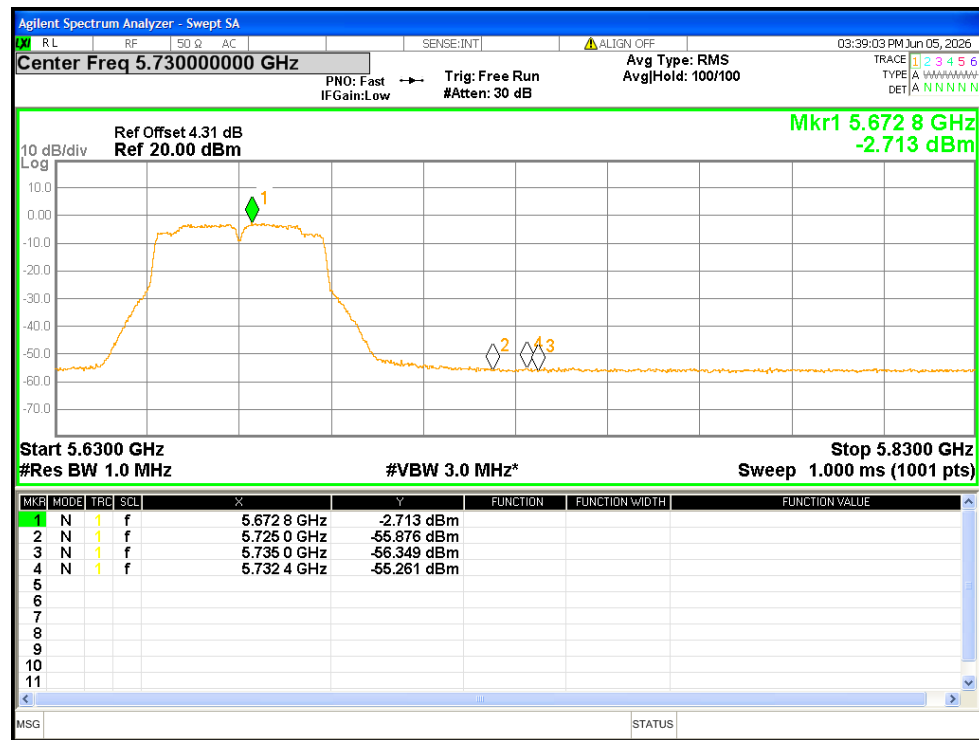
Restrict Band NVNT n40 5510MHz Average



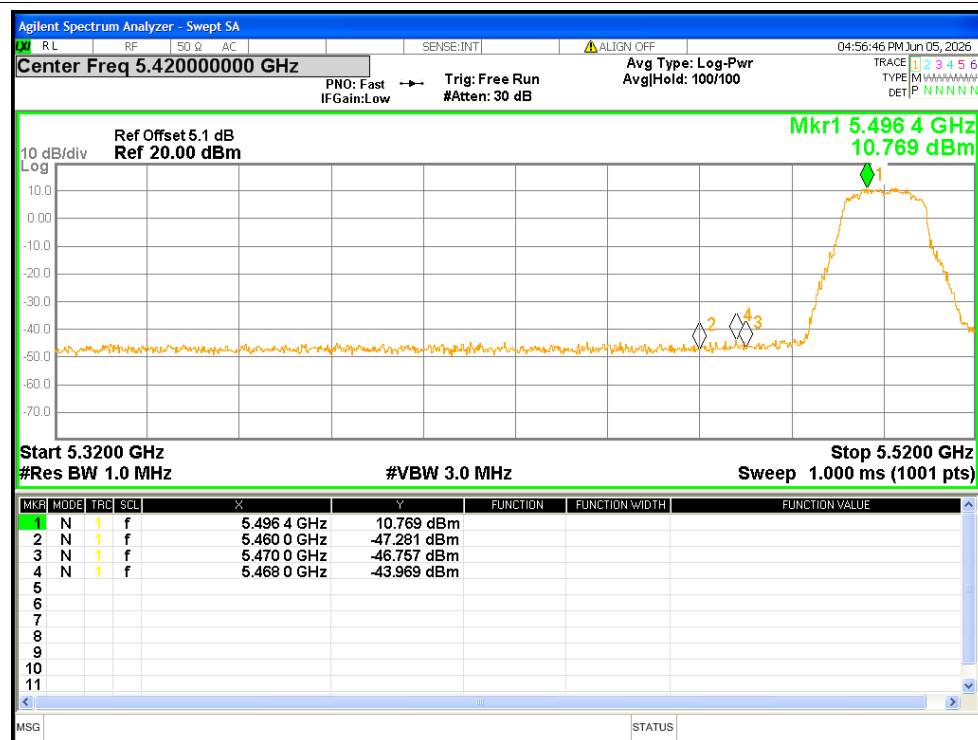
Restrict Band NVNT n40 5670MHz Peak



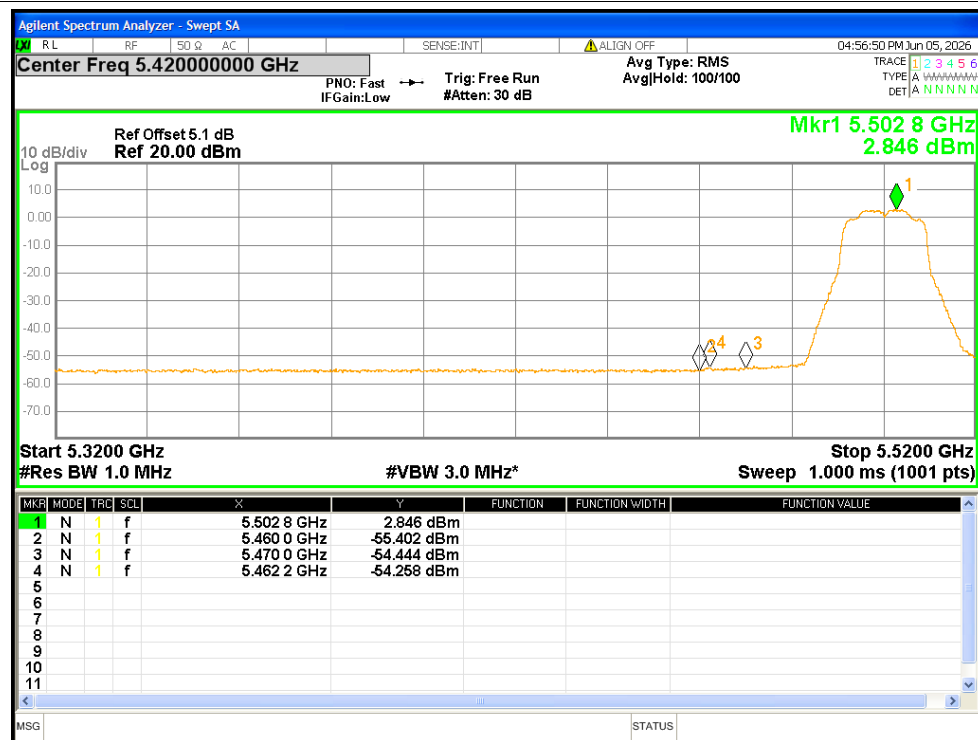
Restrict Band NVNT n40 5670MHz Average



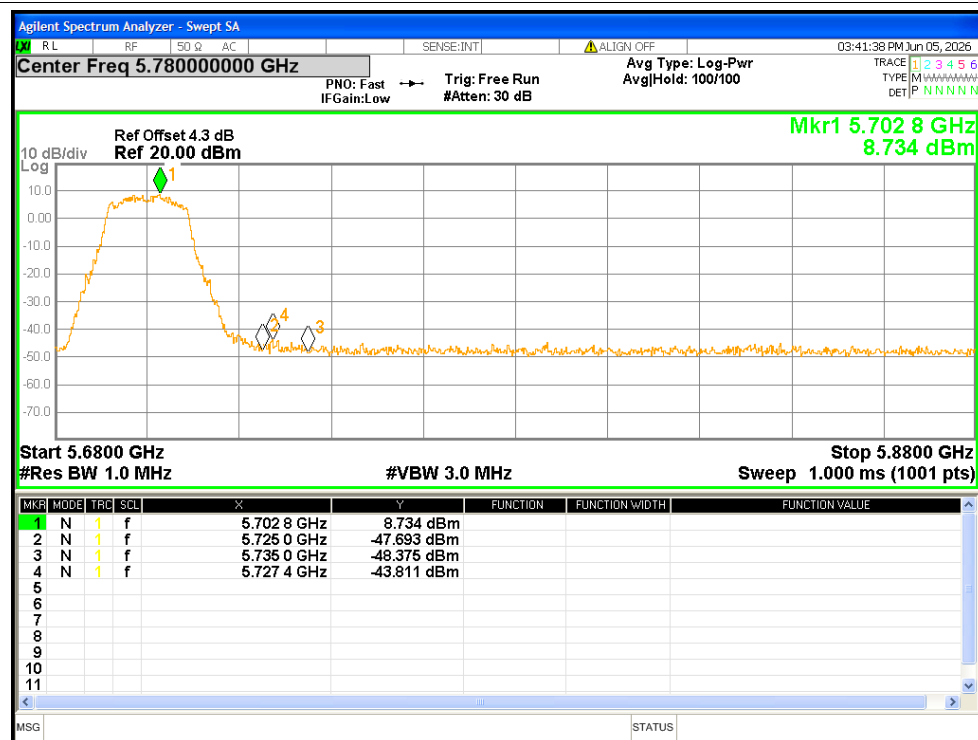
Restrict Band NVNT ac20 5500MHz Peak



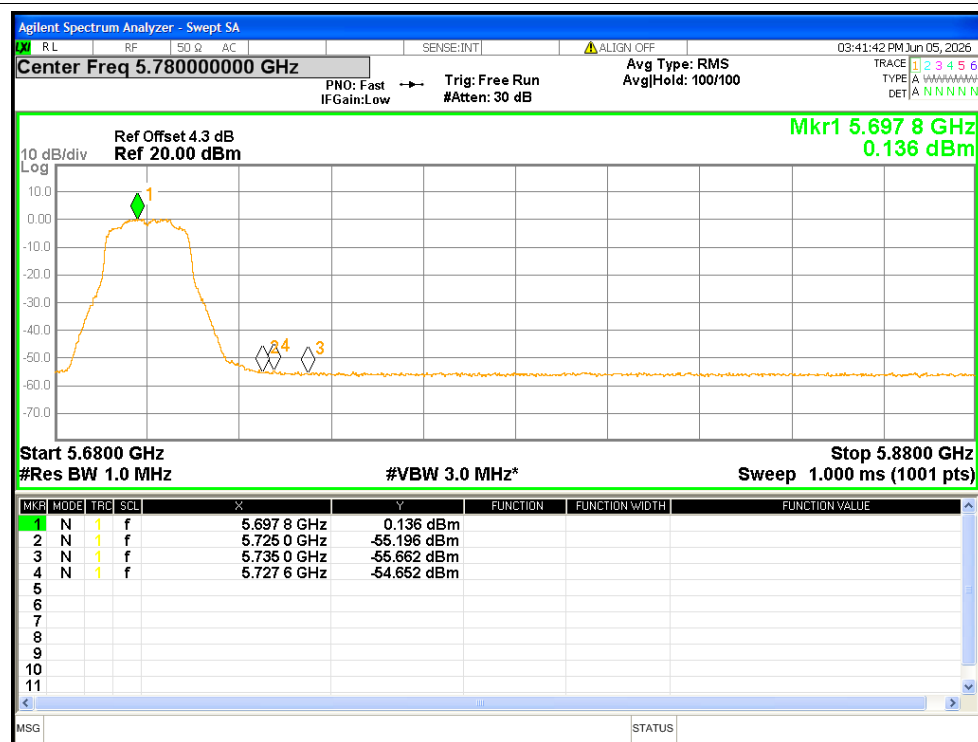
Restrict Band NVNT ac20 5500MHz Average



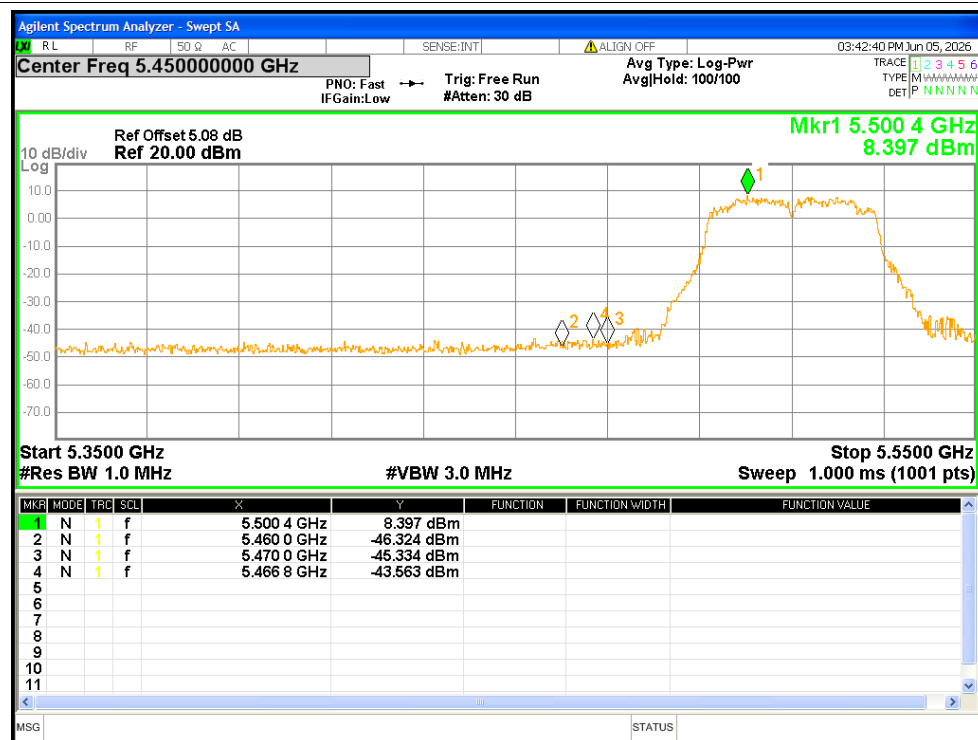
Restrict Band NVNT ac20 5700MHz Peak



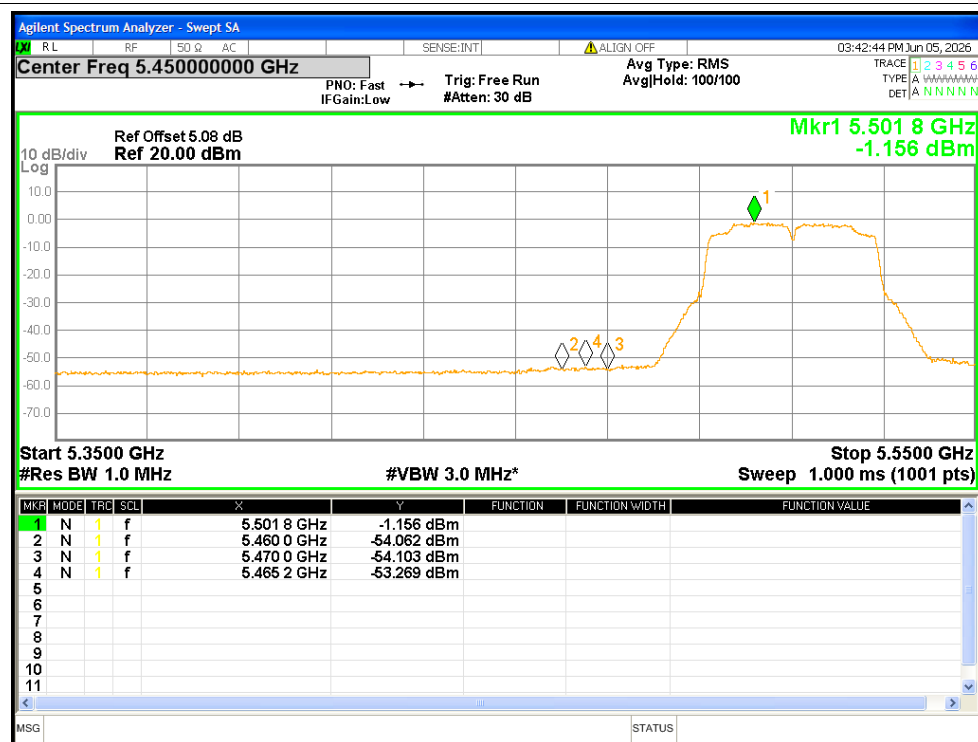
Restrict Band NVNT ac20 5700MHz Average



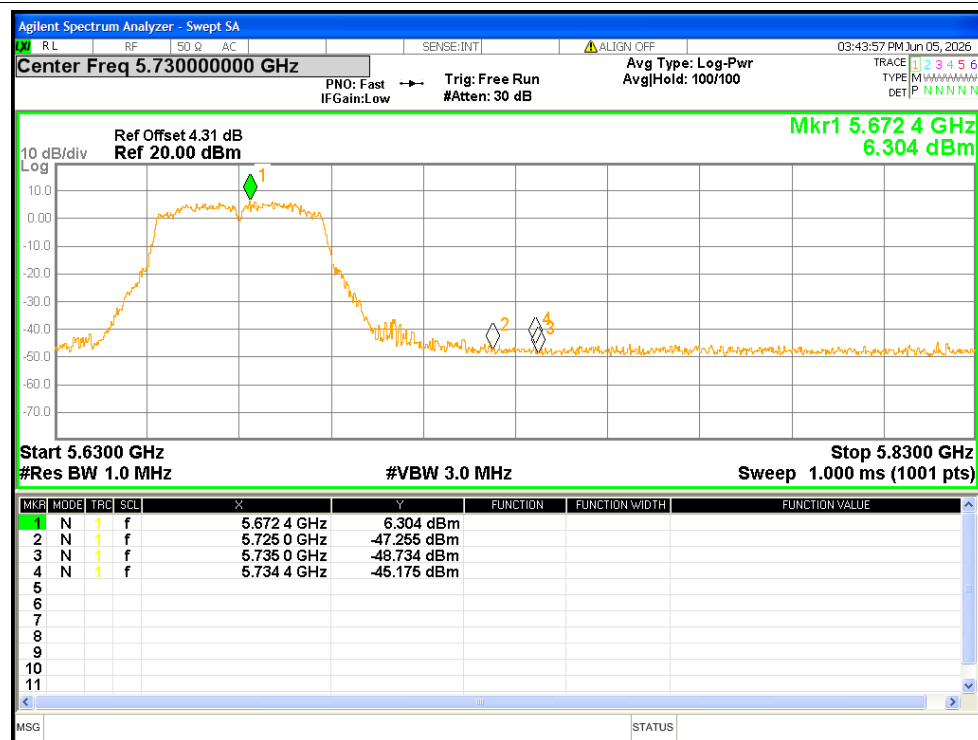
Restrict Band NVNT ac40 5510MHz Peak



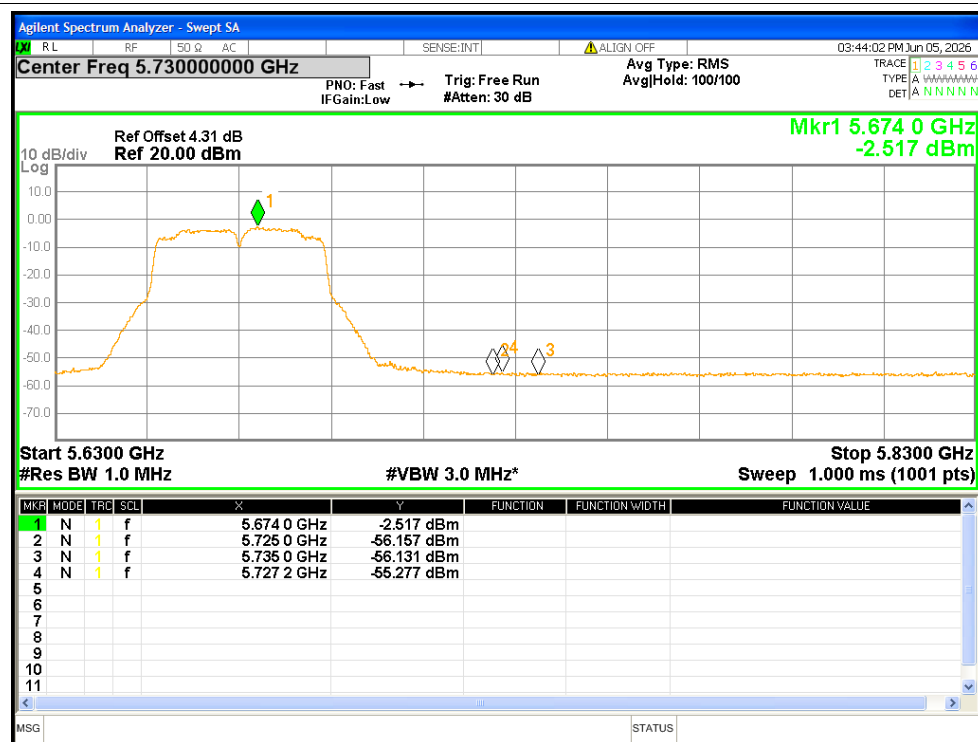
Restrict Band NVNT ac40 5510MHz Average



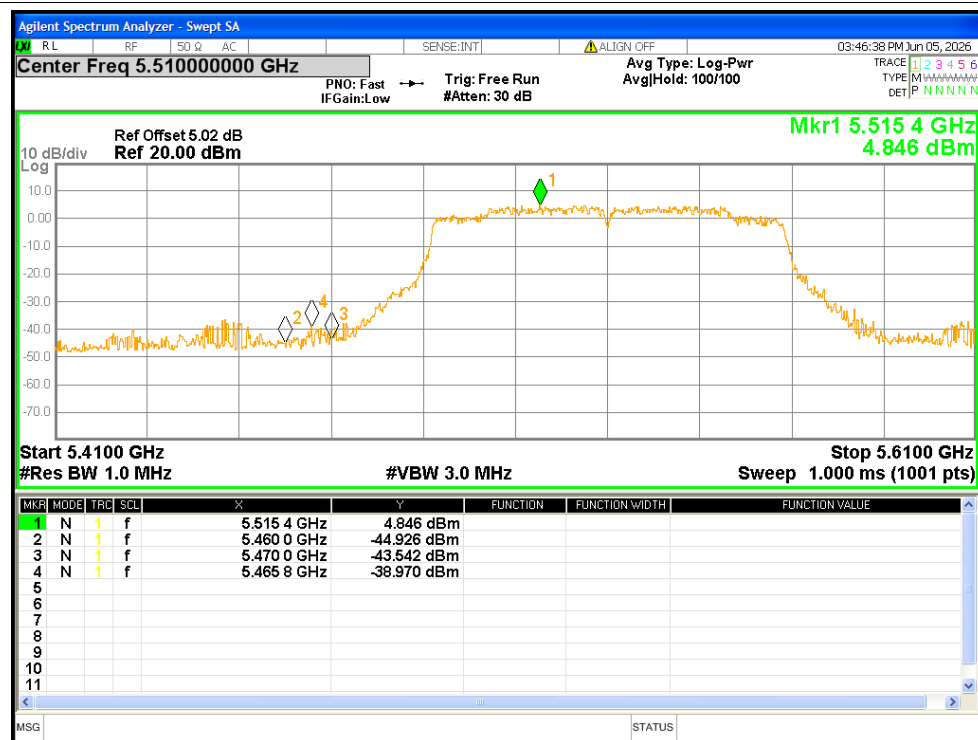
Restrict Band NVNT ac40 5670MHz Peak



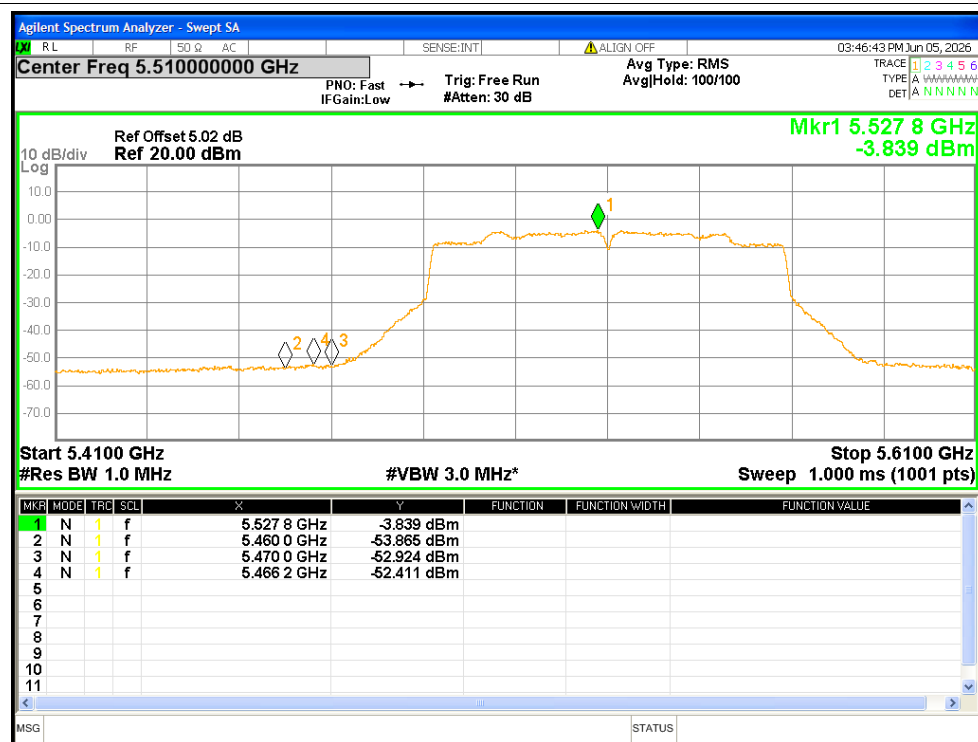
Restrict Band NVNT ac40 5670MHz Average



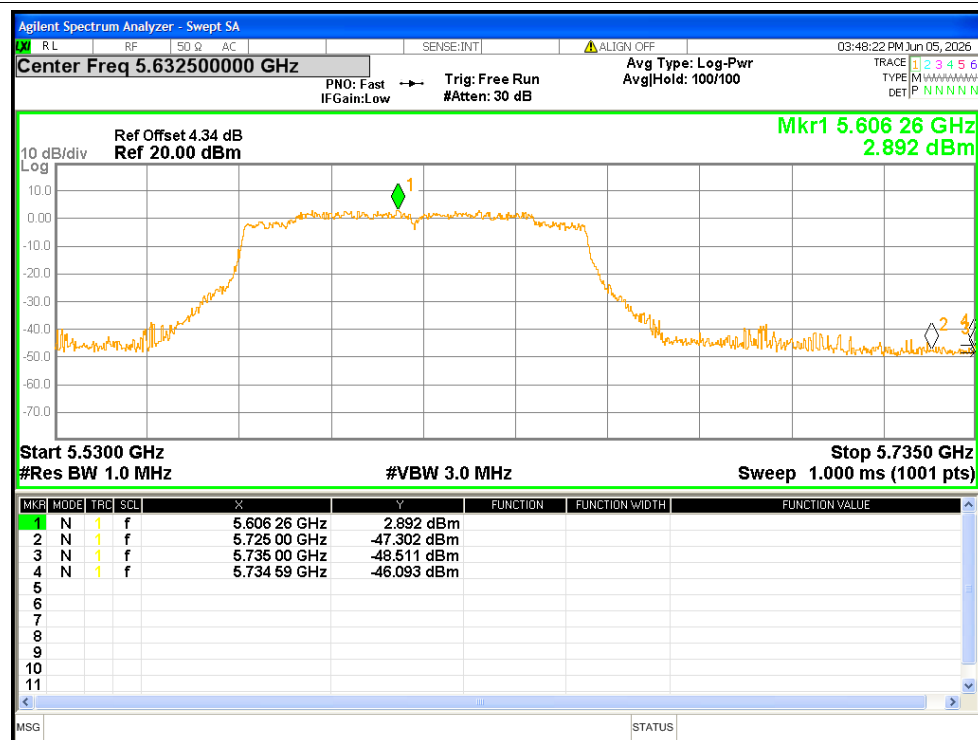
Restrict Band NVNT ac80 5530MHz Peak



Restrict Band NVNT ac80 5530MHz Average



Restrict Band NVNT ac80 5610MHz Peak



Restrict Band NVNT ac80 5610MHz Average

