Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: EV Detection Tool

Test Model: E10

Environmental Conditions

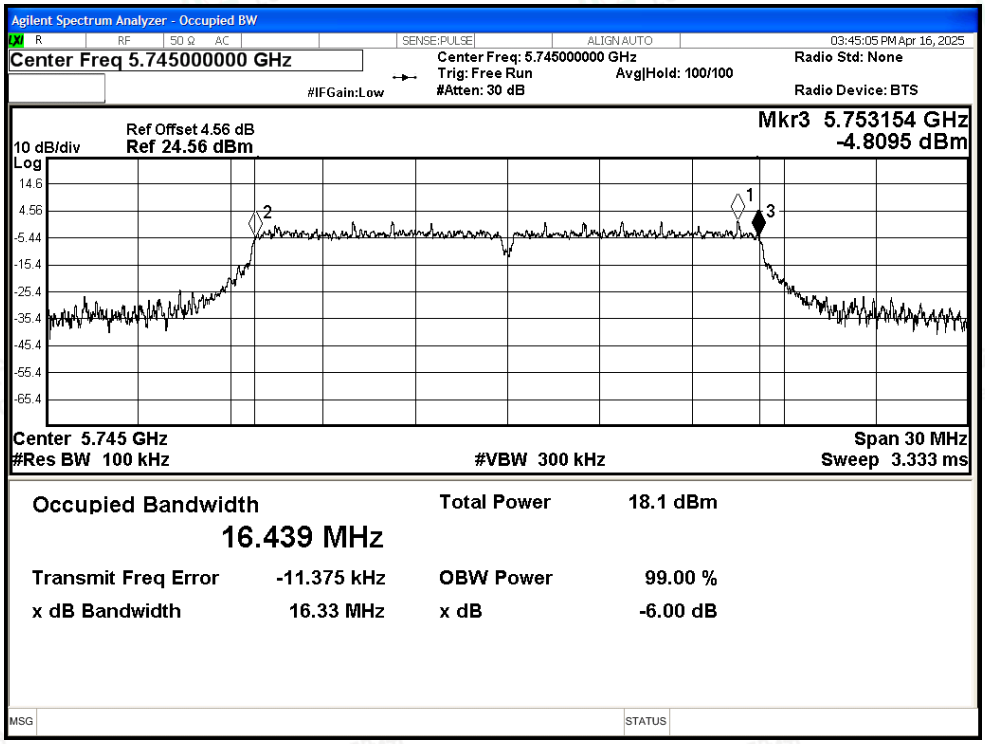
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Andre Tan
Supervised by:	Nick Peng

E.1 -6dB Bandwidth

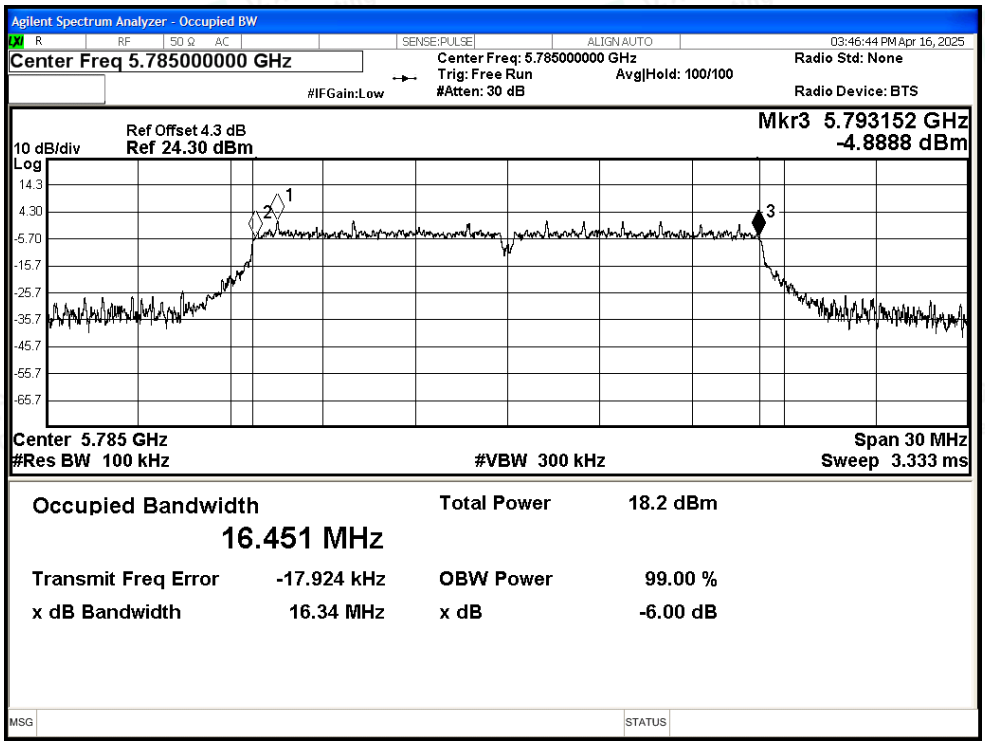
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.331	>=0.5	Pass
NVNT	a	5785	Ant1	16.339	>=0.5	Pass
NVNT	a	5825	Ant1	16.33	>=0.5	Pass
NVNT	n20	5745	Ant1	17.581	>=0.5	Pass
NVNT	n20	5785	Ant1	17.421	>=0.5	Pass
NVNT	n20	5825	Ant1	17.575	>=0.5	Pass
NVNT	n40	5755	Ant1	36.156	>=0.5	Pass
NVNT	n40	5795	Ant1	36.136	>=0.5	Pass
NVNT	ac20	5745	Ant1	17.516	>=0.5	Pass
NVNT	ac20	5785	Ant1	17.539	>=0.5	Pass
NVNT	ac20	5825	Ant1	17.299	>=0.5	Pass
NVNT	ac40	5755	Ant1	36.405	>=0.5	Pass
NVNT	ac40	5795	Ant1	36.18	>=0.5	Pass
NVNT	ac80	5775	Ant1	75.345	>=0.5	Pass

Test Graphs

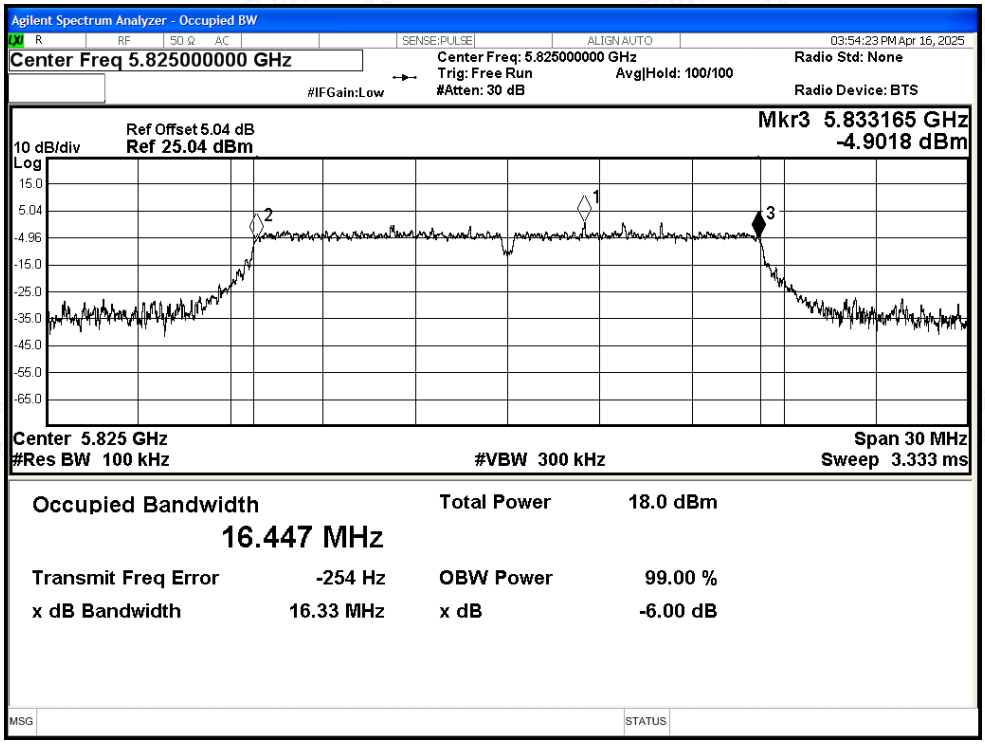
-6dB Bandwidth NVNT a 5745MHz Ant1



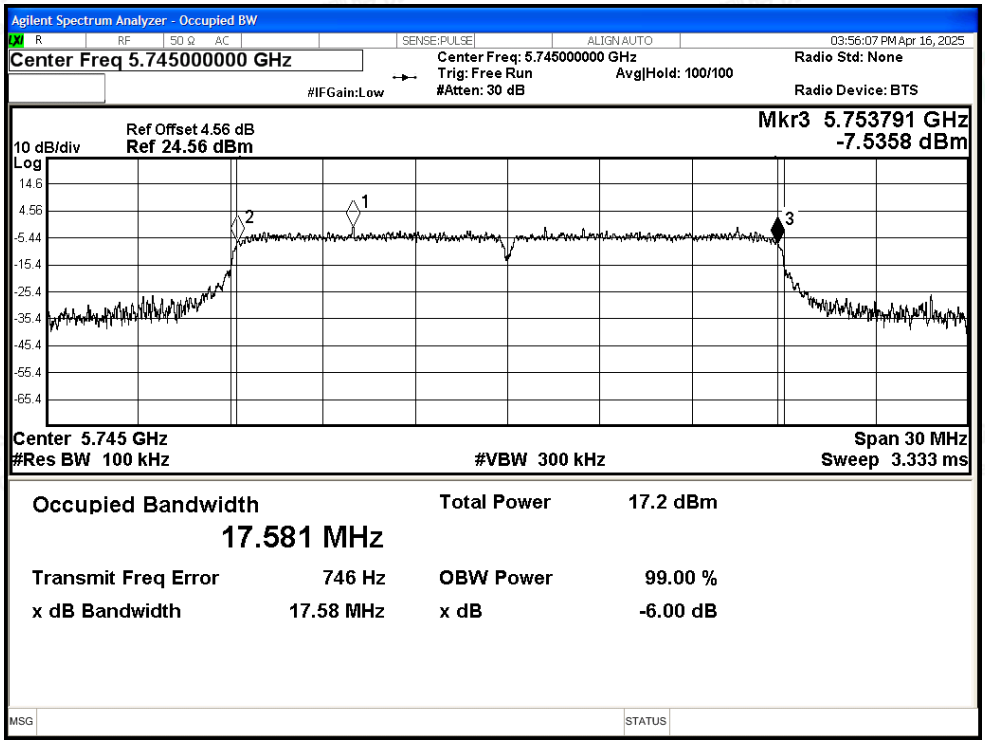
-6dB Bandwidth NVNT a 5785MHz Ant1



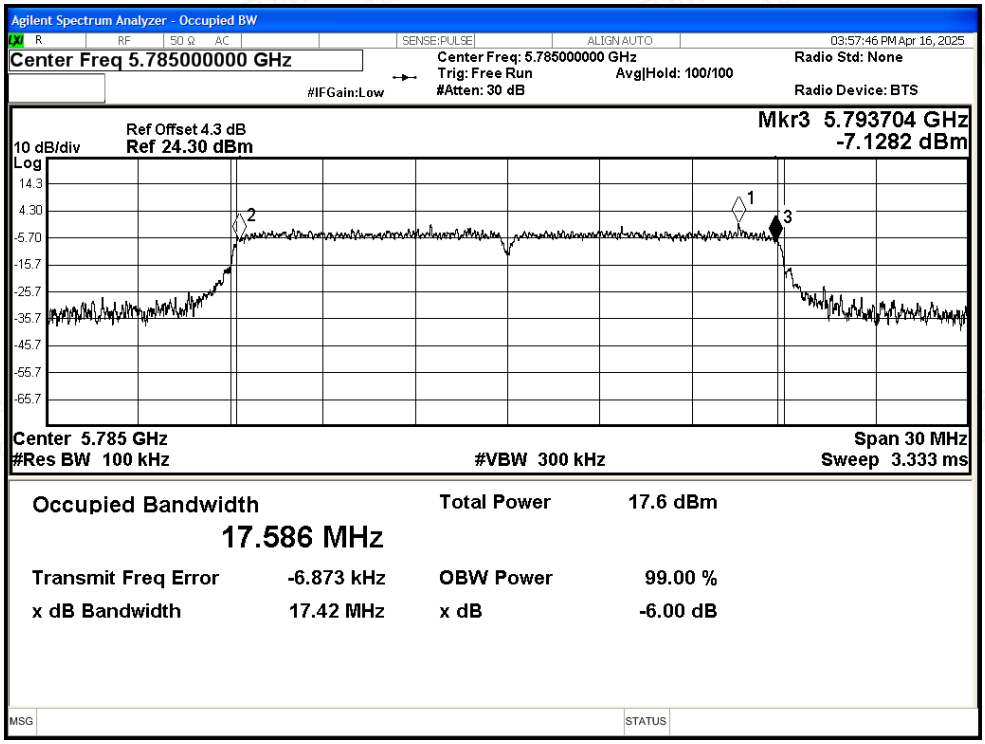
-6dB Bandwidth NVNT a 5825MHz Ant1



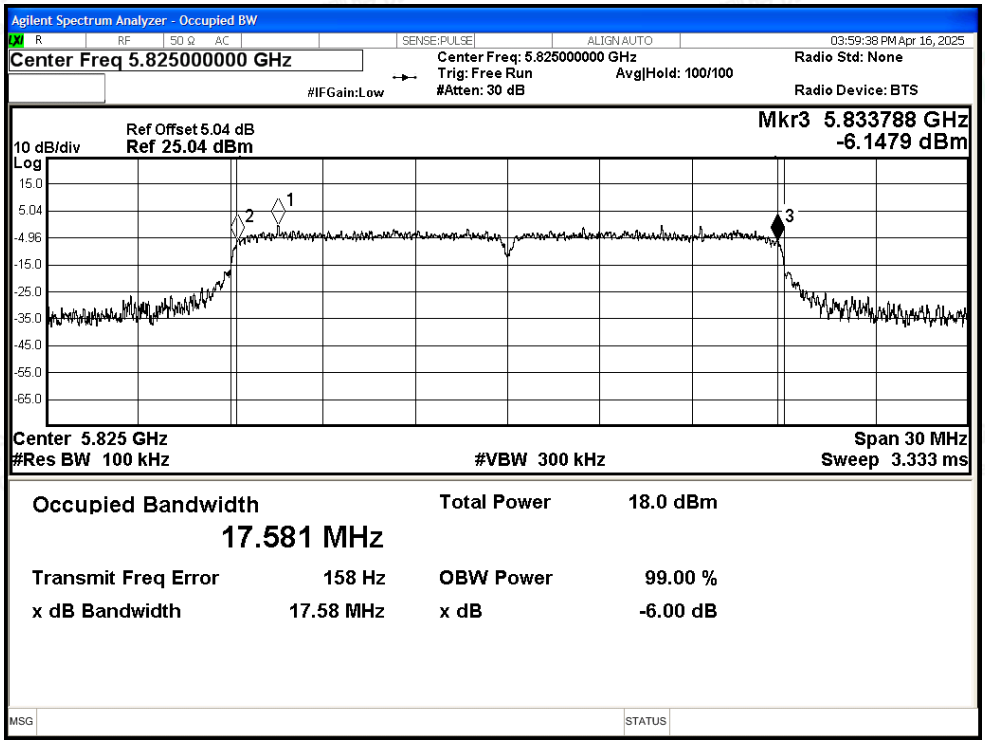
-6dB Bandwidth NVNT n20 5745MHz Ant1



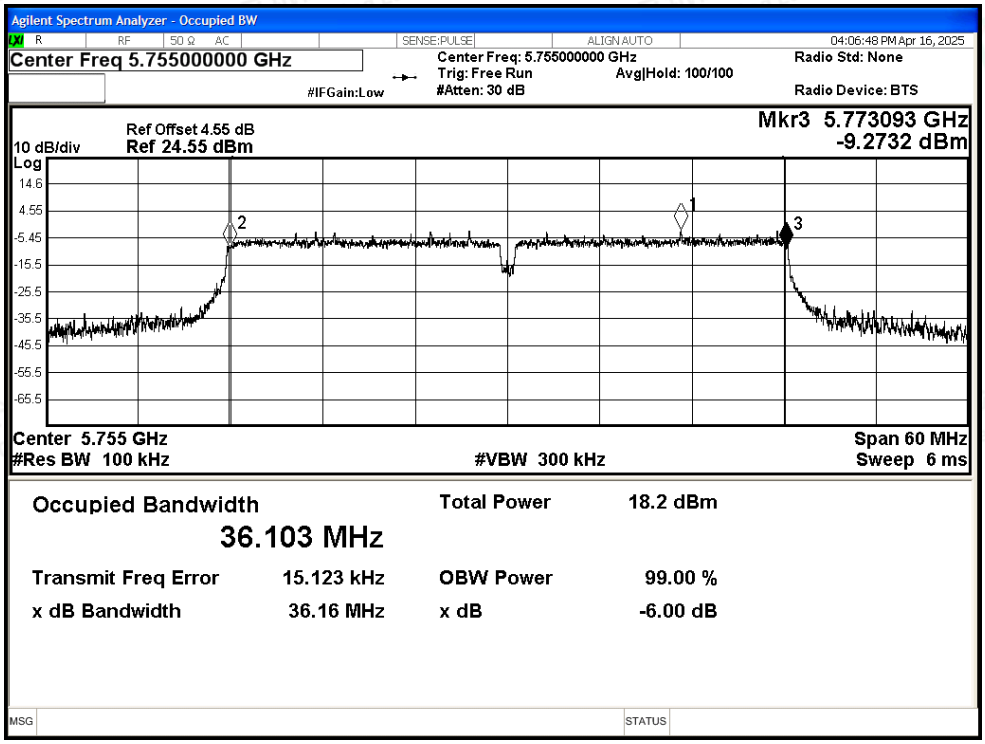
-6dB Bandwidth NVNT n20 5785MHz Ant1



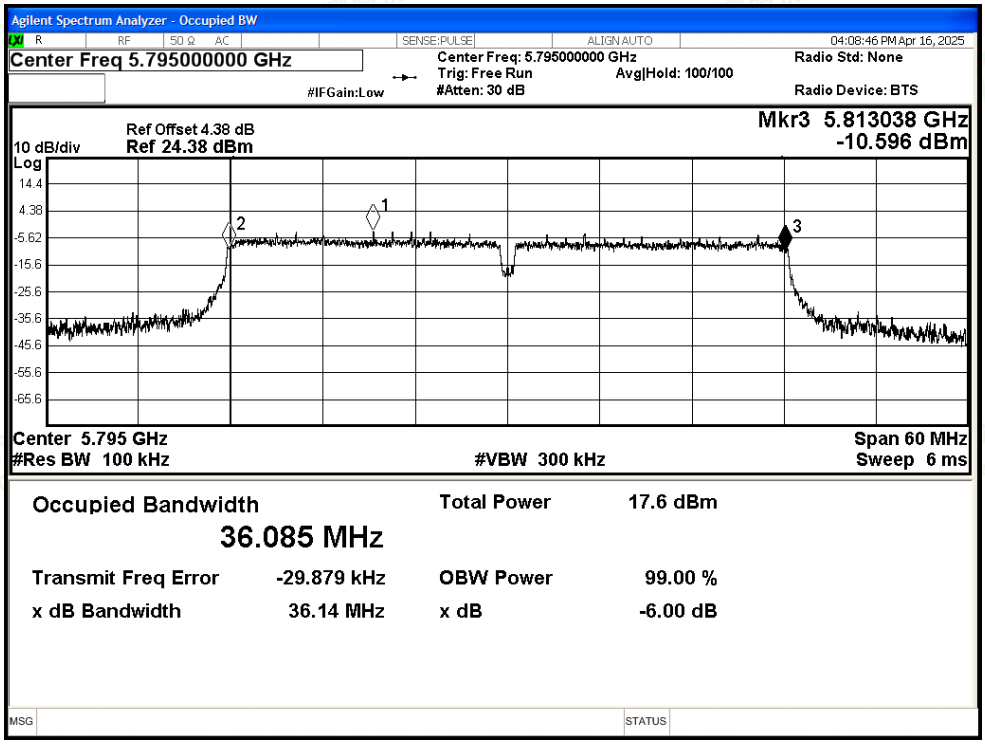
-6dB Bandwidth NVNT n20 5825MHz Ant1



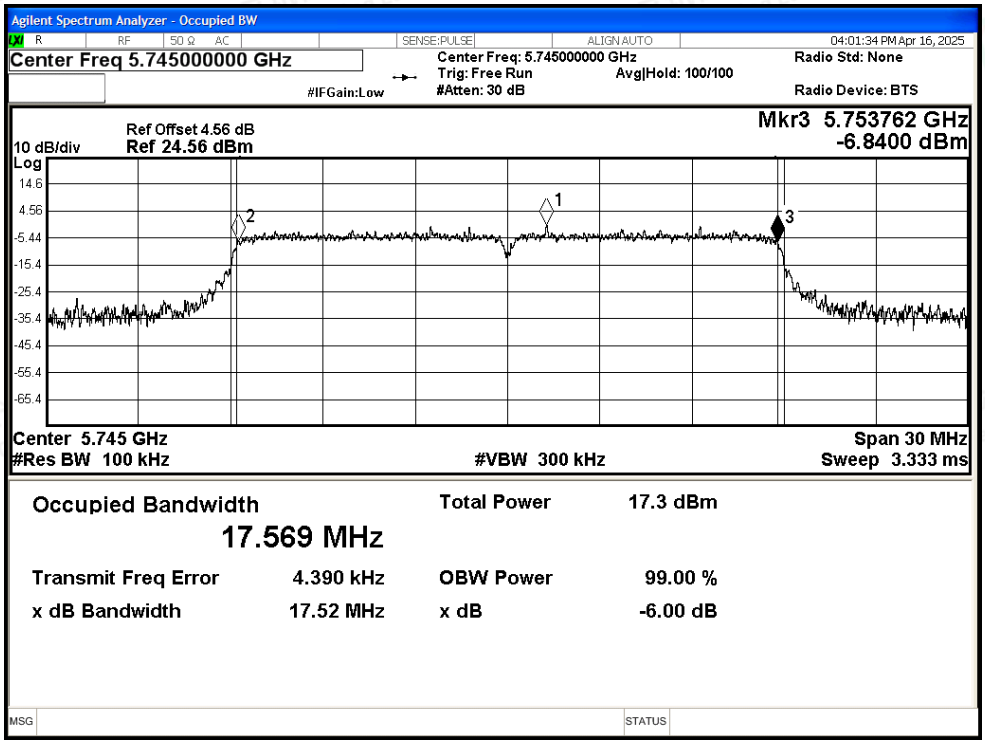
-6dB Bandwidth NVNT n40 5755MHz Ant1



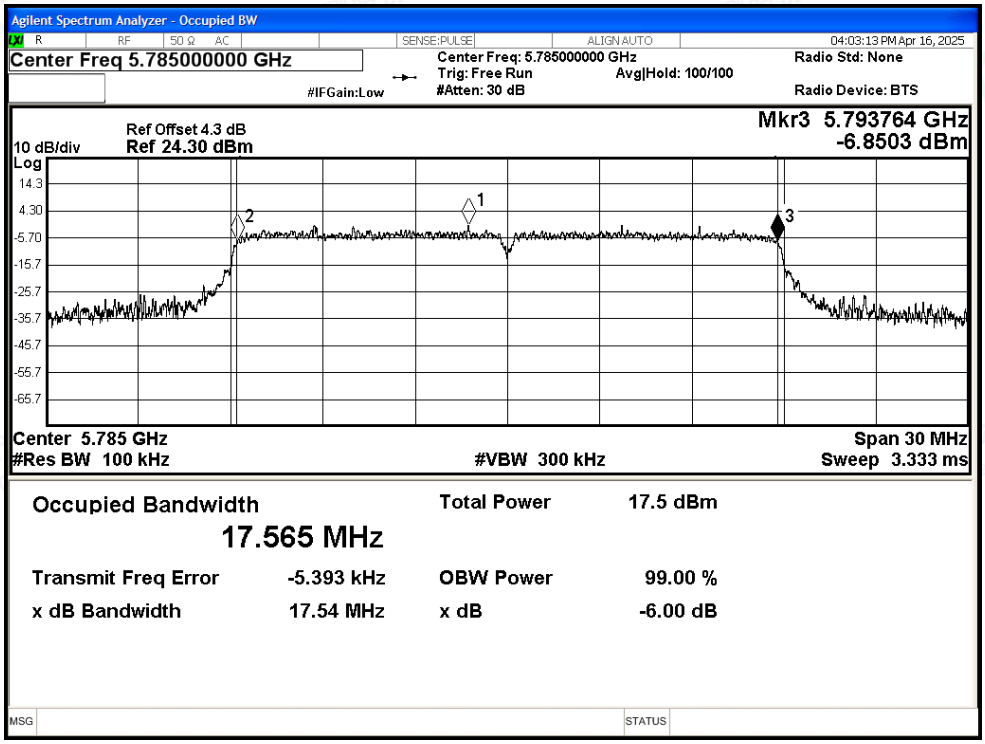
-6dB Bandwidth NVNT n40 5795MHz Ant1



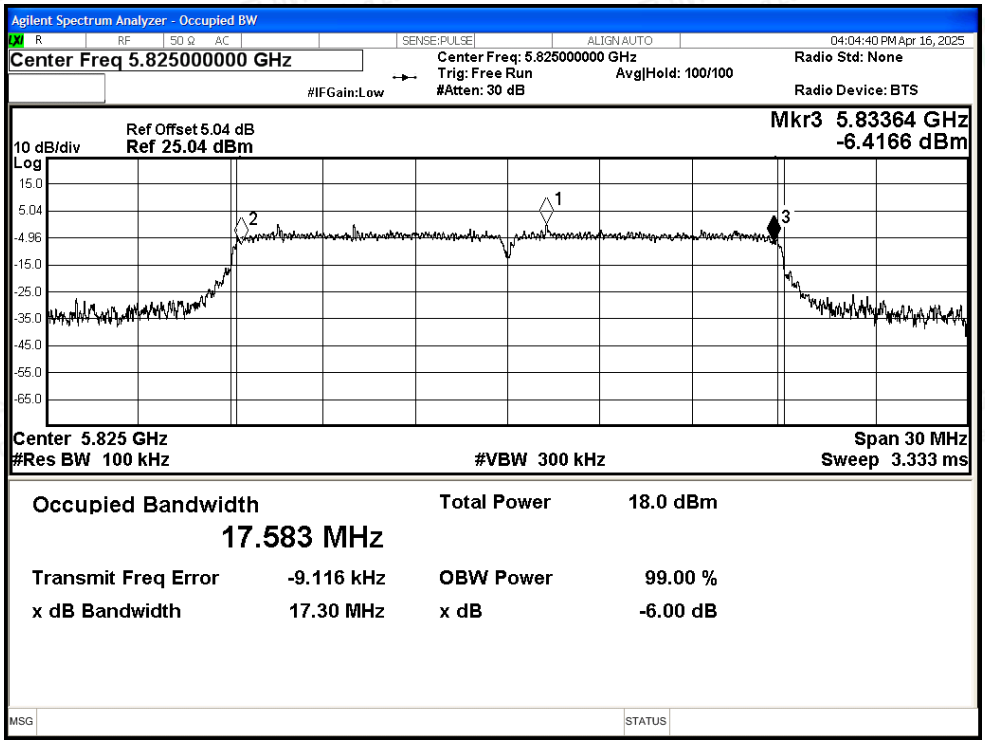
-6dB Bandwidth NVNT ac20 5745MHz Ant1



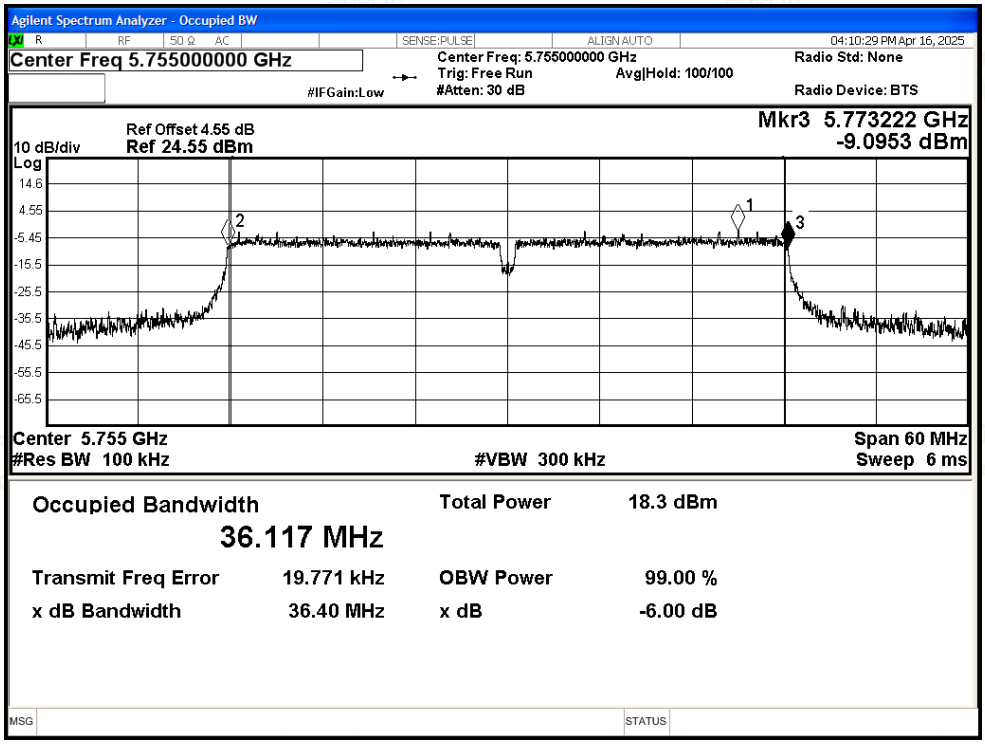
-6dB Bandwidth NVNT ac20 5785MHz Ant1



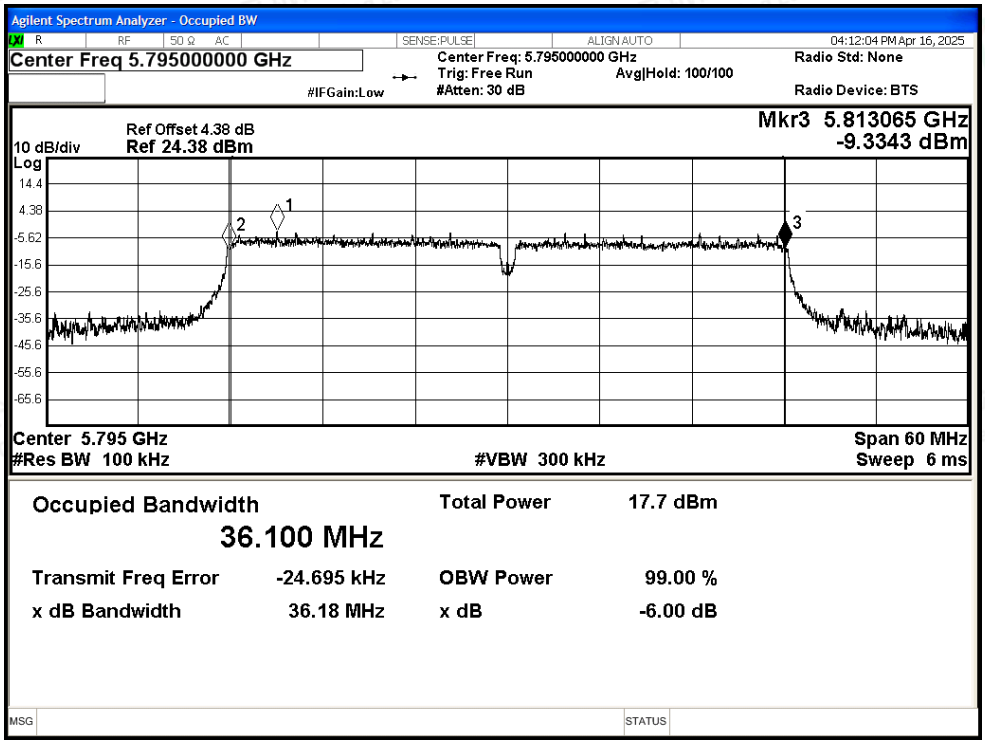
-6dB Bandwidth NVNT ac20 5825MHz Ant1



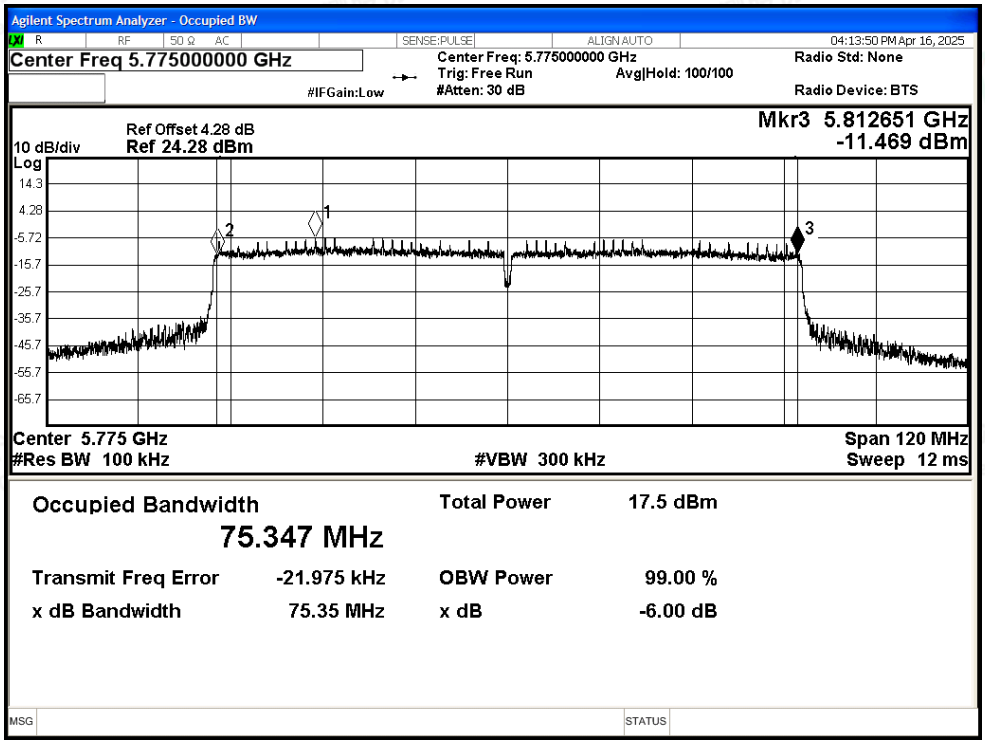
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



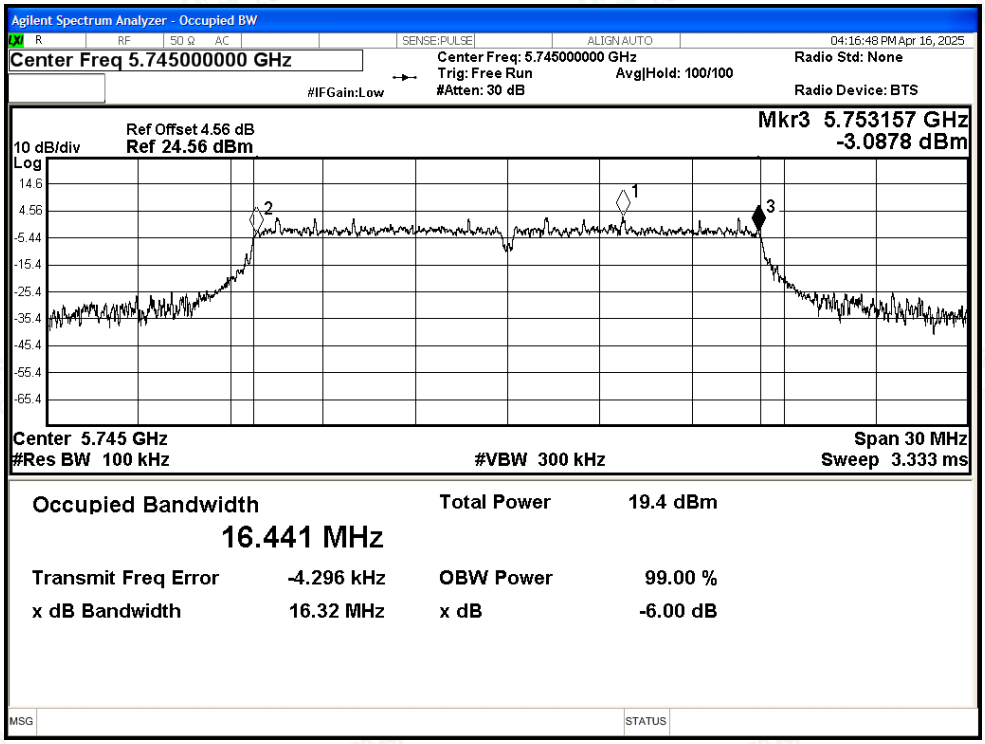
-6dB Bandwidth NVNT ac80 5775MHz Ant1



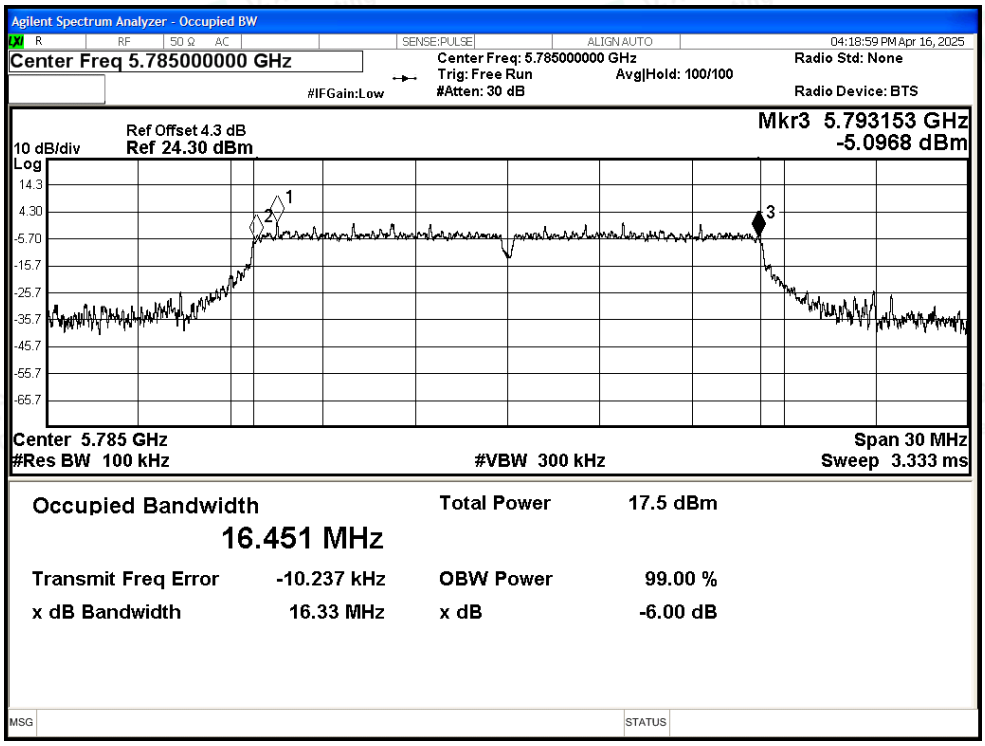
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant2	16.323	>=0.5	Pass
NVNT	a	5785	Ant2	16.327	>=0.5	Pass
NVNT	a	5825	Ant2	16.324	>=0.5	Pass
NVNT	n20	5745	Ant2	17.264	>=0.5	Pass
NVNT	n20	5785	Ant2	17.399	>=0.5	Pass
NVNT	n20	5825	Ant2	17.434	>=0.5	Pass
NVNT	n40	5755	Ant2	36.274	>=0.5	Pass
NVNT	n40	5795	Ant2	35.846	>=0.5	Pass
NVNT	ac20	5745	Ant2	17.386	>=0.5	Pass
NVNT	ac20	5785	Ant2	17.544	>=0.5	Pass
NVNT	ac20	5825	Ant2	17.315	>=0.5	Pass
NVNT	ac40	5755	Ant2	36.449	>=0.5	Pass
NVNT	ac40	5795	Ant2	36.156	>=0.5	Pass
NVNT	ac80	5775	Ant2	75.475	>=0.5	Pass

Test Graphs

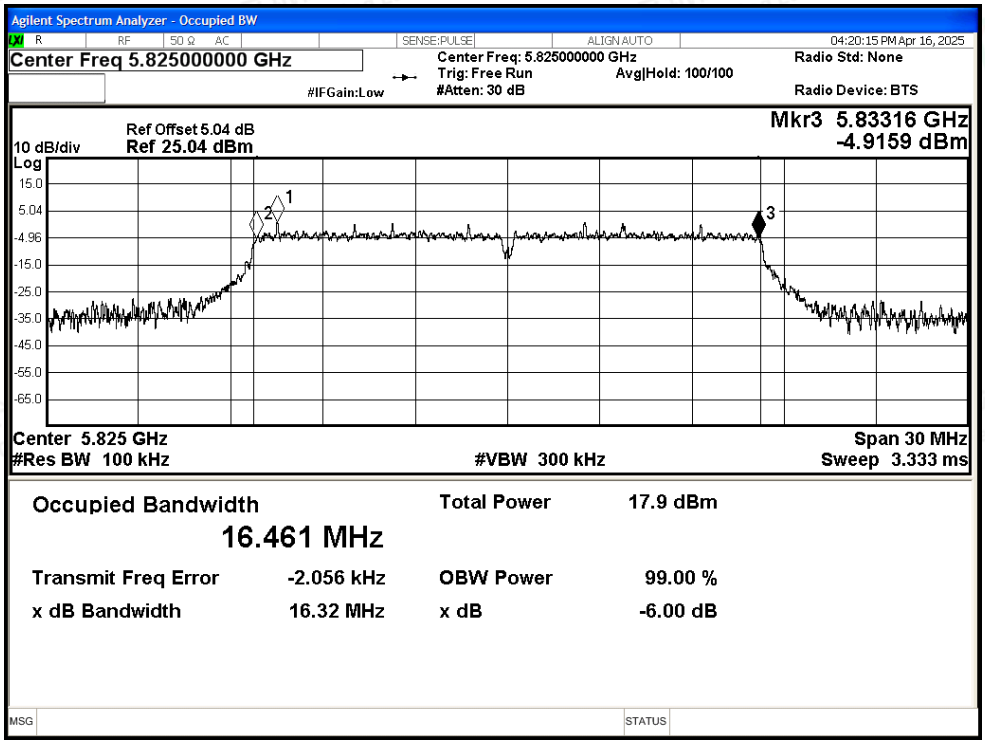
-6dB Bandwidth NVNT a 5745MHz Ant2



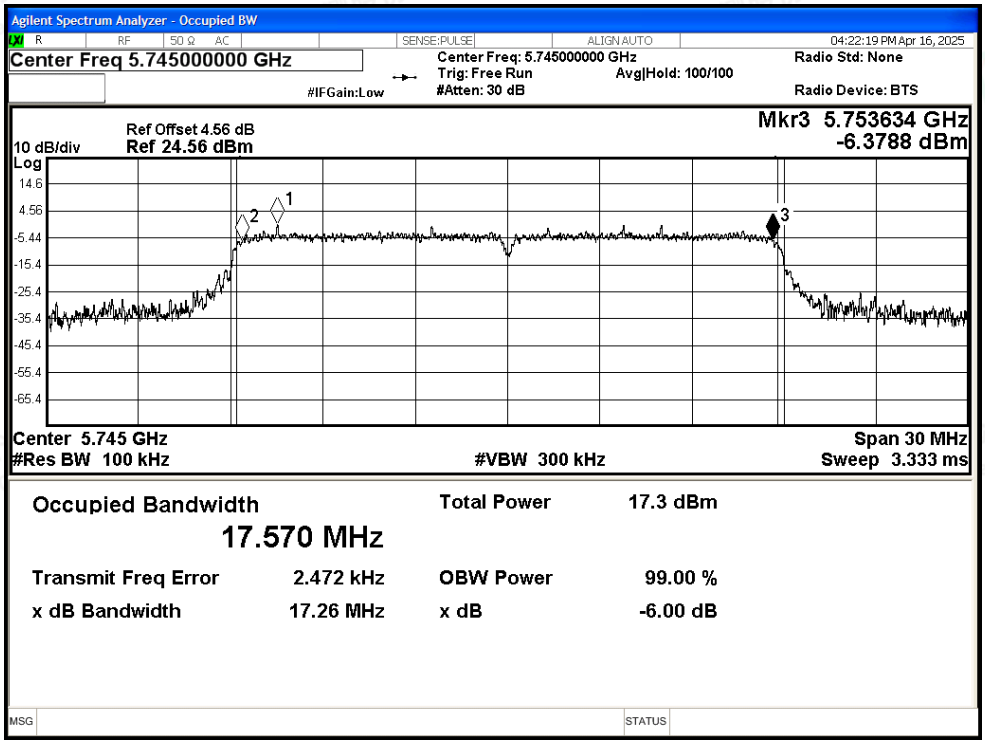
-6dB Bandwidth NVNT a 5785MHz Ant2



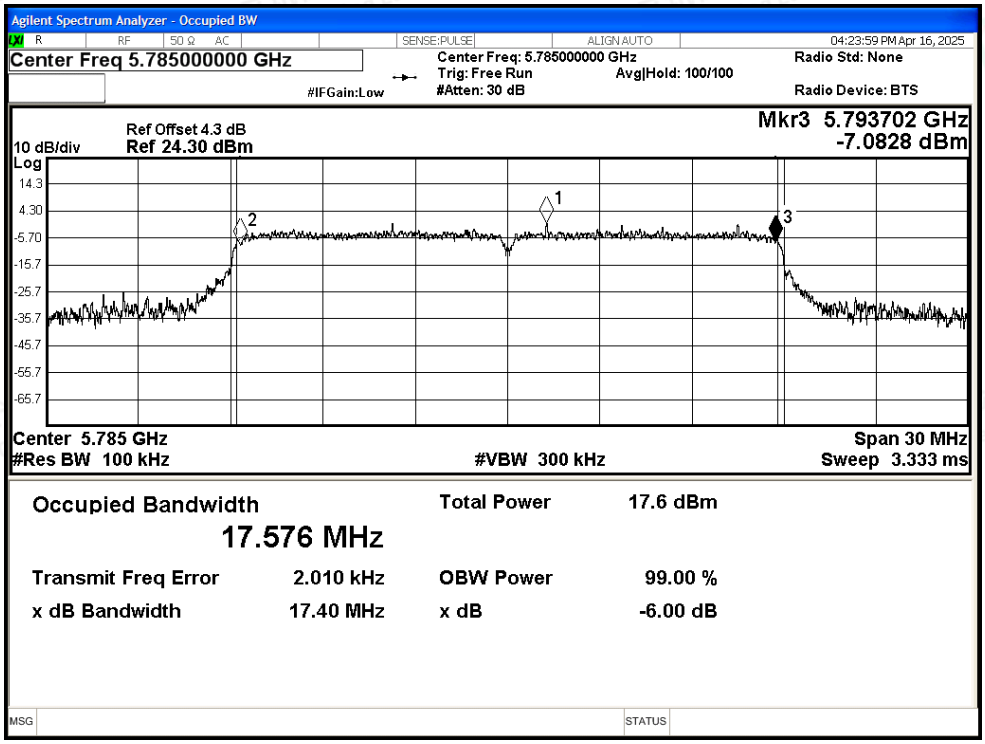
-6dB Bandwidth NVNT a 5825MHz Ant2



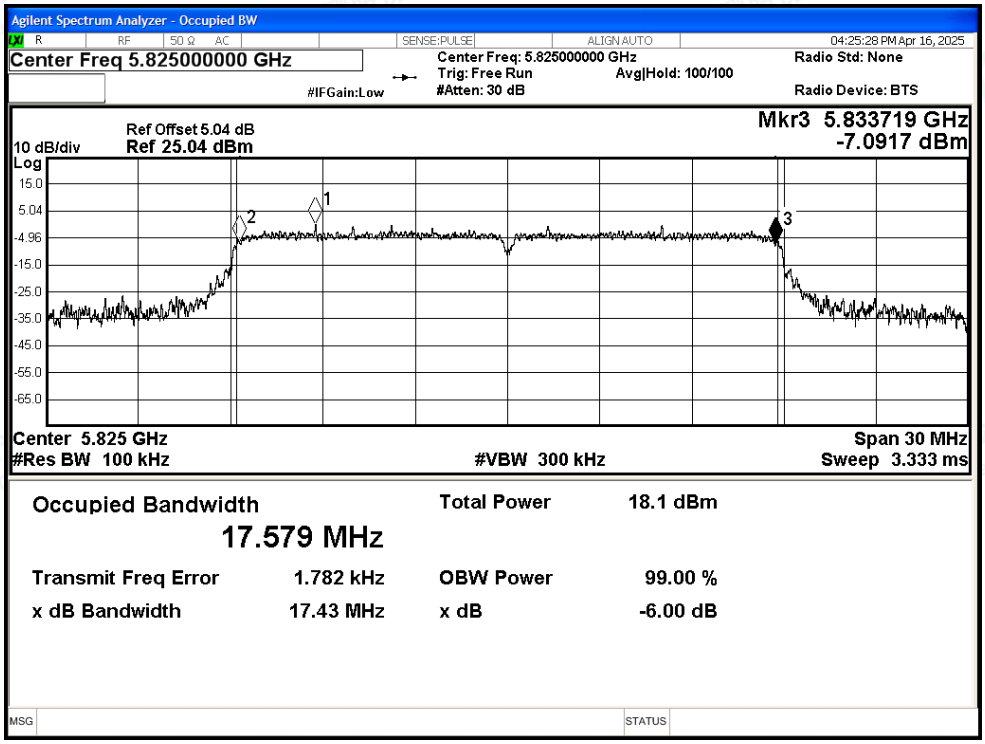
-6dB Bandwidth NVNT n20 5745MHz Ant2



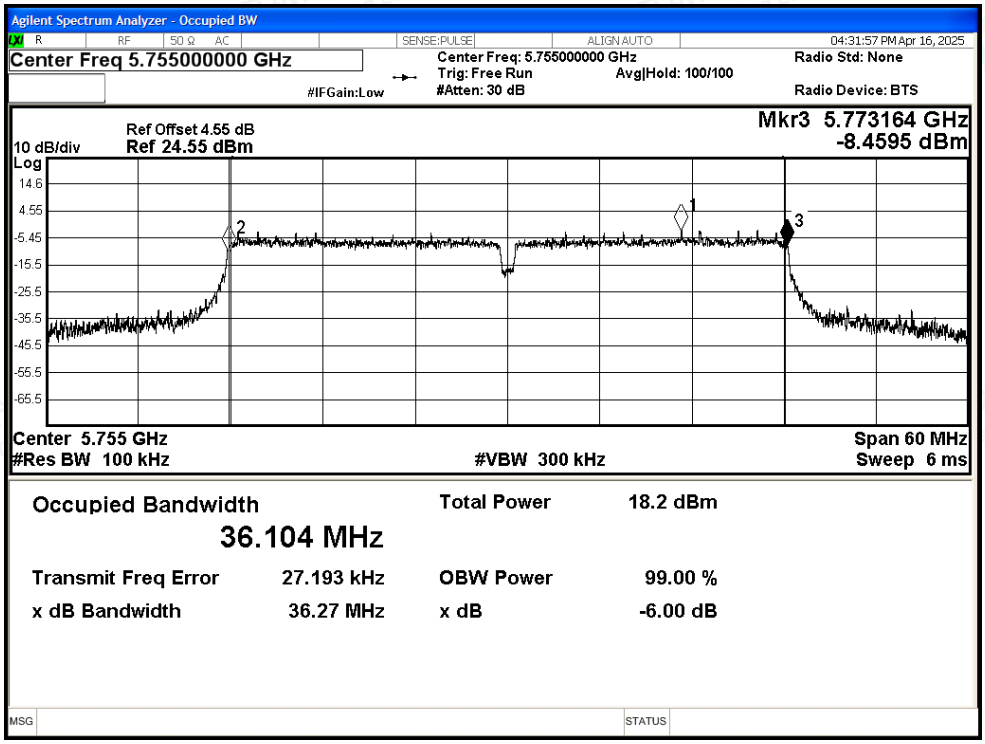
-6dB Bandwidth NVNT n20 5785MHz Ant2



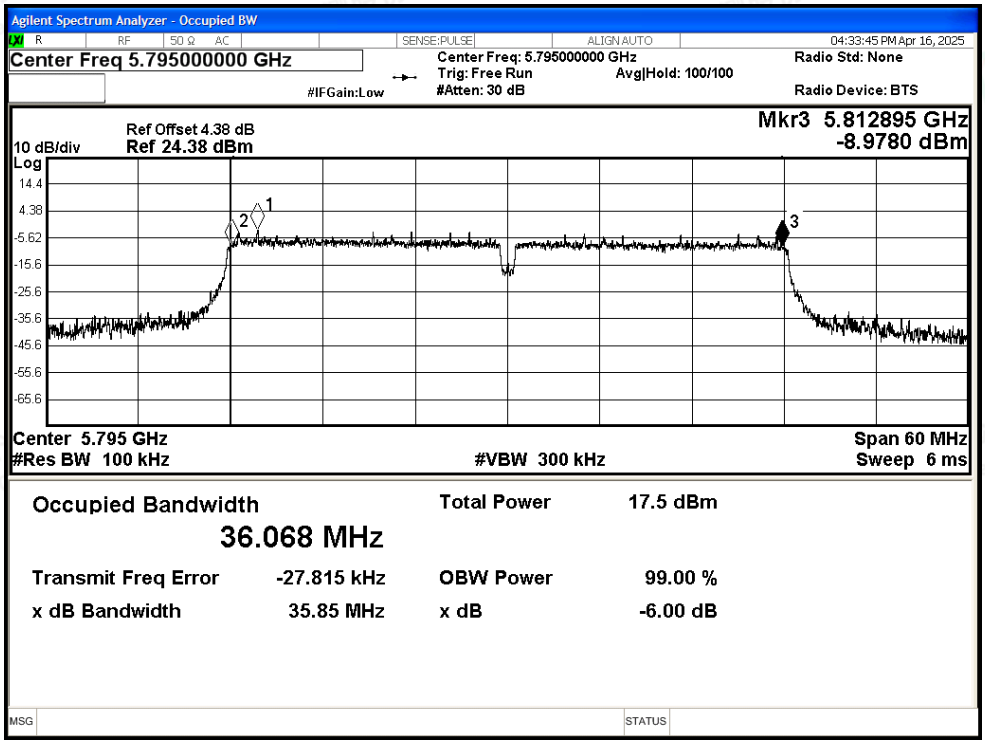
-6dB Bandwidth NVNT n20 5825MHz Ant2



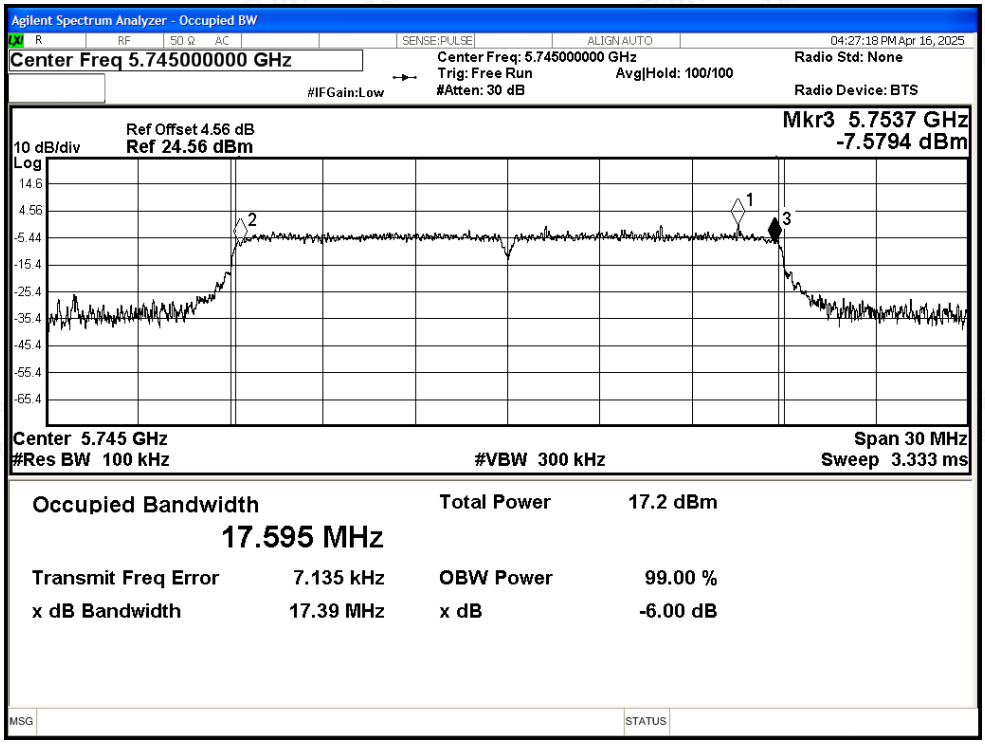
-6dB Bandwidth NVNT n40 5755MHz Ant2



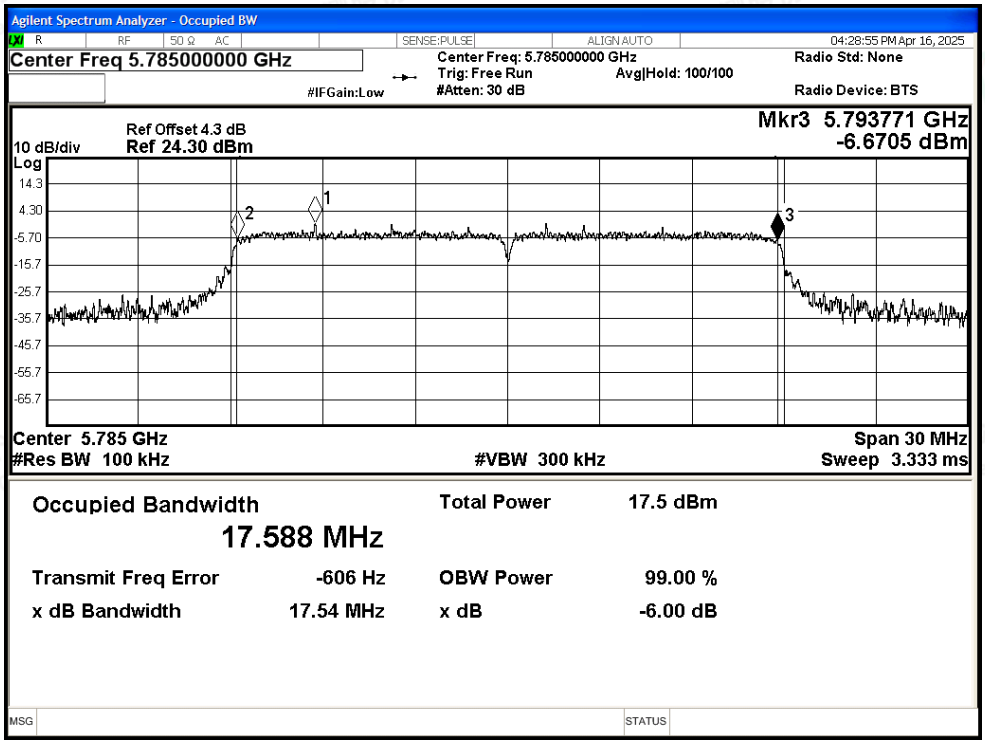
-6dB Bandwidth NVNT n40 5795MHz Ant2



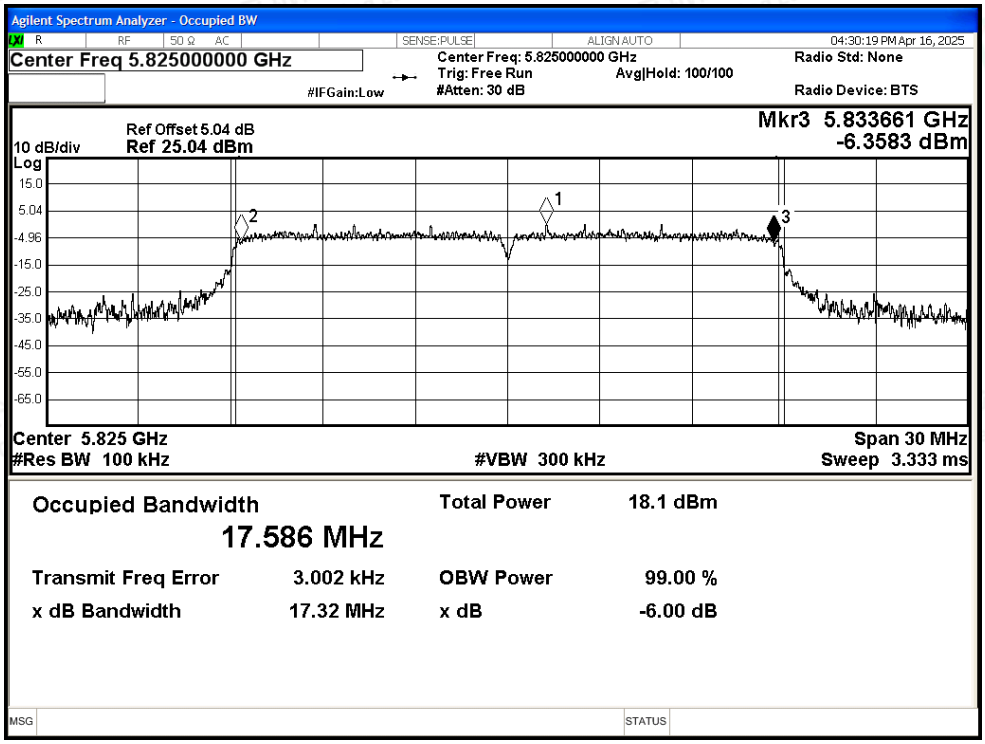
-6dB Bandwidth NVNT ac20 5745MHz Ant2



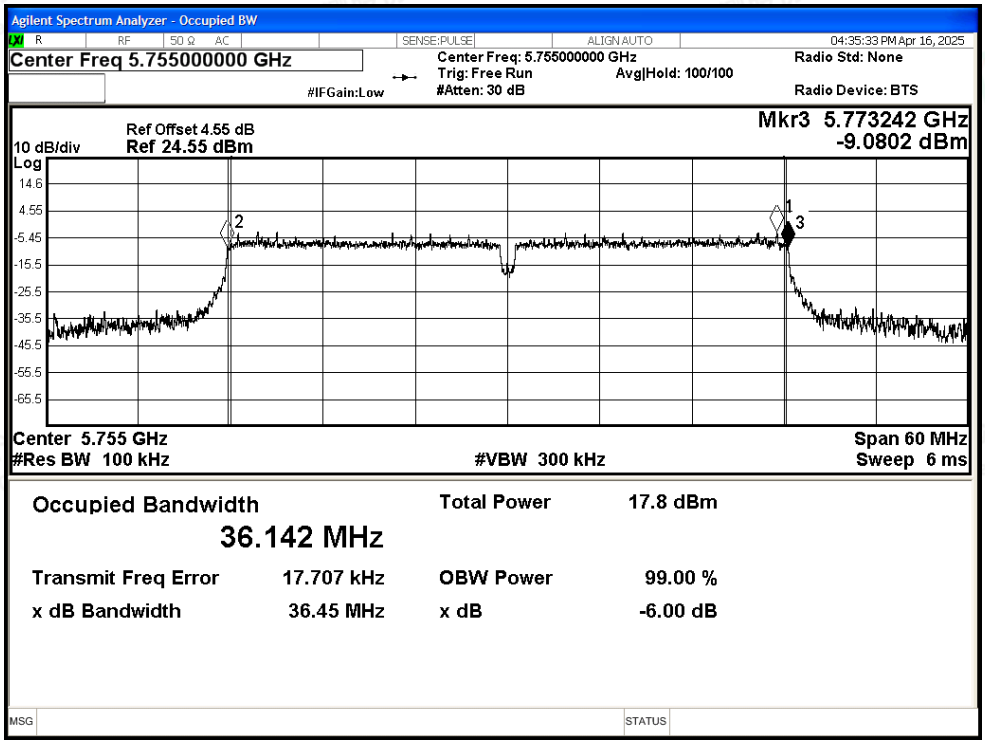
-6dB Bandwidth NVNT ac20 5785MHz Ant2



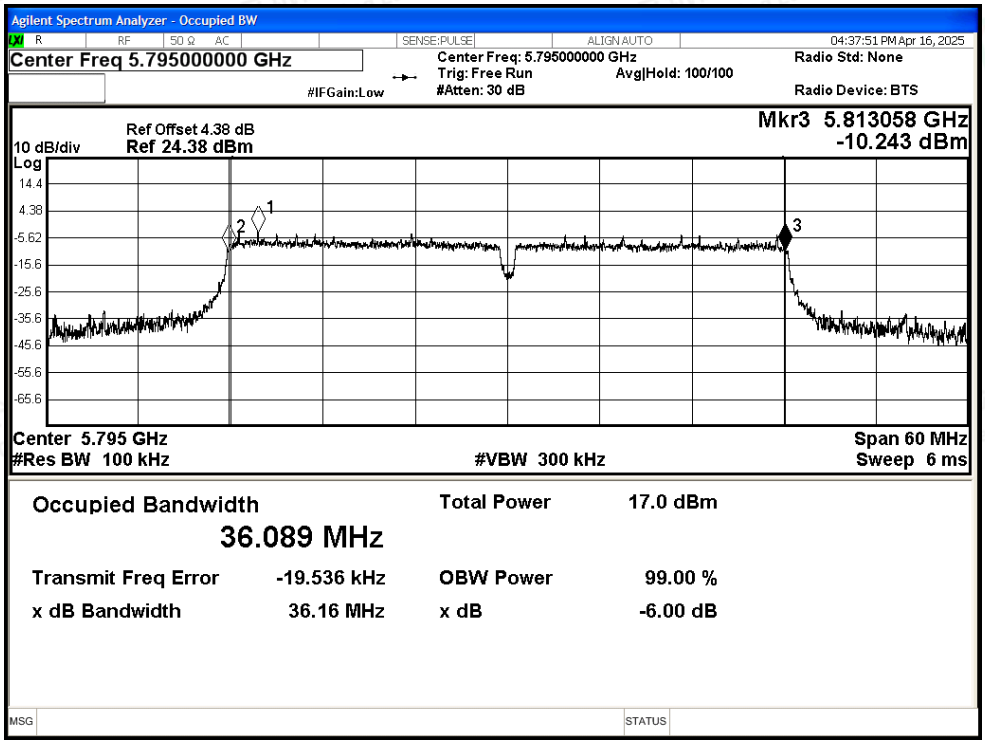
-6dB Bandwidth NVNT ac20 5825MHz Ant2



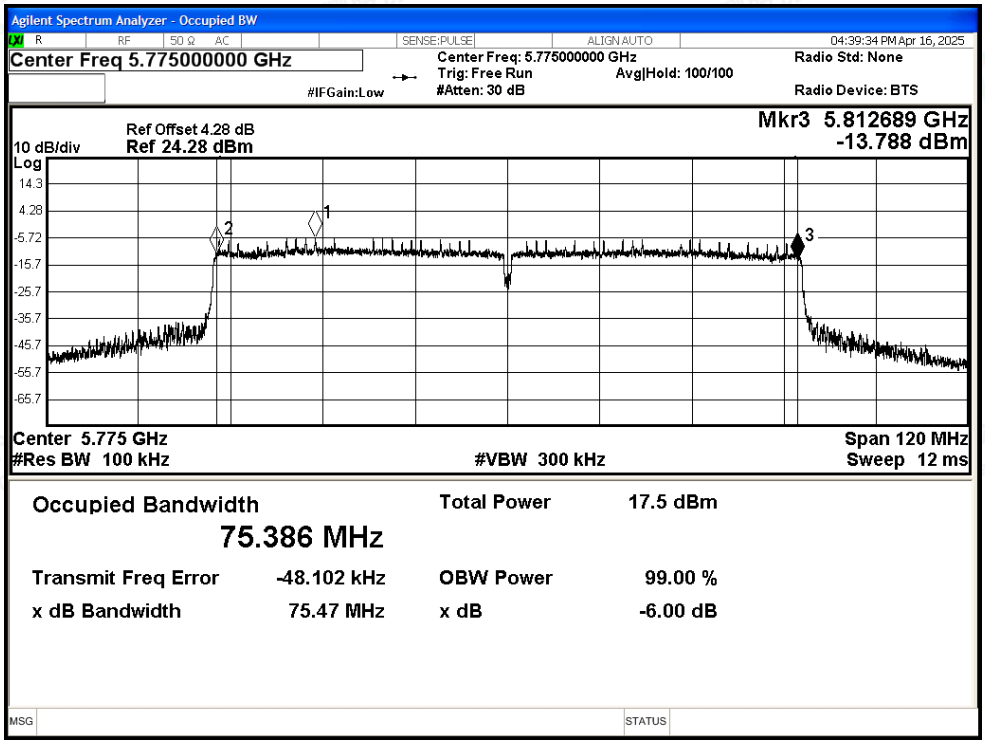
-6dB Bandwidth NVNT ac40 5755MHz Ant2



-6dB Bandwidth NVNT ac40 5795MHz Ant2



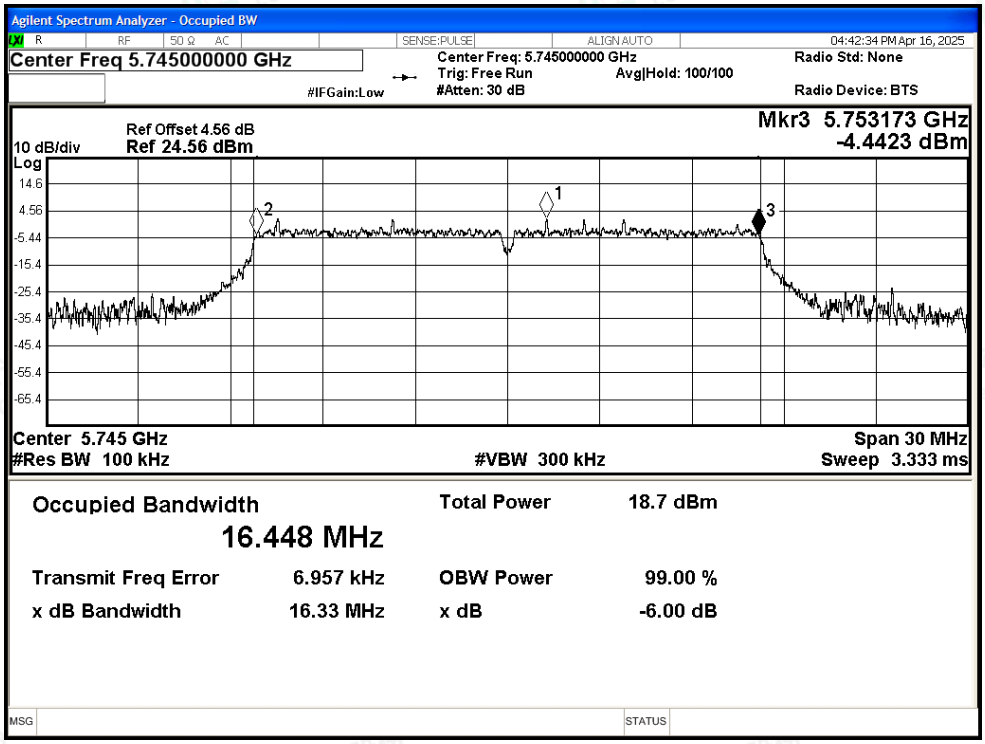
-6dB Bandwidth NVNT ac80 5775MHz Ant2



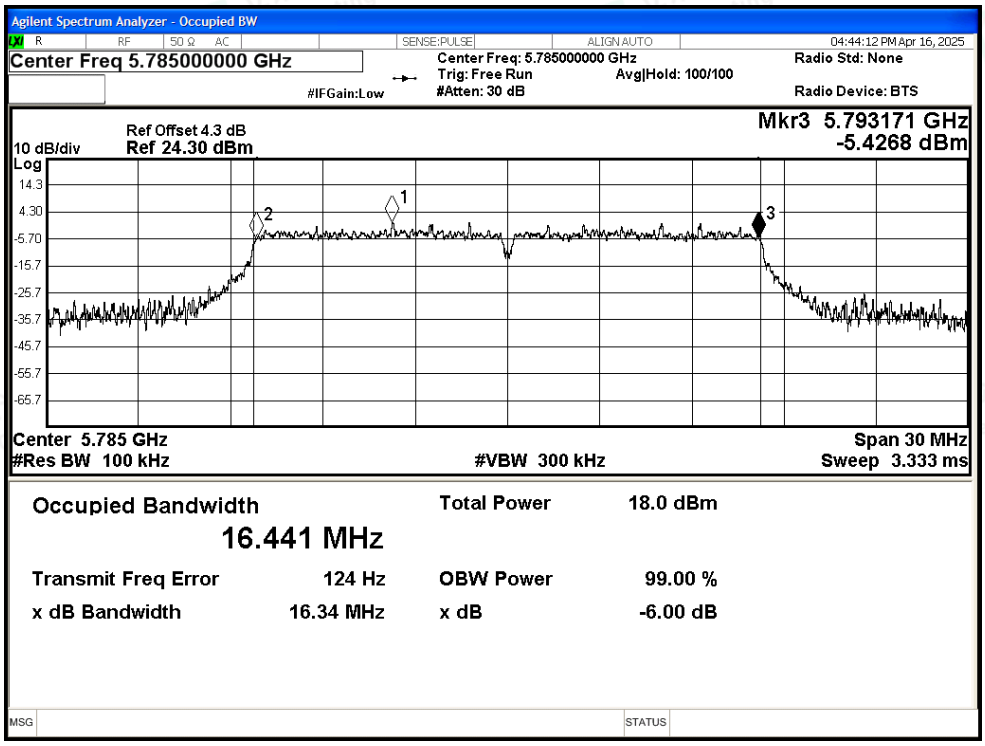
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant3	16.333	>=0.5	Pass
NVNT	a	5785	Ant3	16.342	>=0.5	Pass
NVNT	a	5825	Ant3	16.338	>=0.5	Pass
NVNT	n20	5745	Ant3	17.415	>=0.5	Pass
NVNT	n20	5785	Ant3	17.283	>=0.5	Pass
NVNT	n20	5825	Ant3	17.252	>=0.5	Pass
NVNT	n40	5755	Ant3	36.193	>=0.5	Pass
NVNT	n40	5795	Ant3	36.272	>=0.5	Pass
NVNT	ac20	5745	Ant3	17.532	>=0.5	Pass
NVNT	ac20	5785	Ant3	17.565	>=0.5	Pass
NVNT	ac20	5825	Ant3	17.553	>=0.5	Pass
NVNT	ac40	5755	Ant3	36.431	>=0.5	Pass
NVNT	ac40	5795	Ant3	36.165	>=0.5	Pass
NVNT	ac80	5775	Ant3	75.51	>=0.5	Pass

Test Graphs

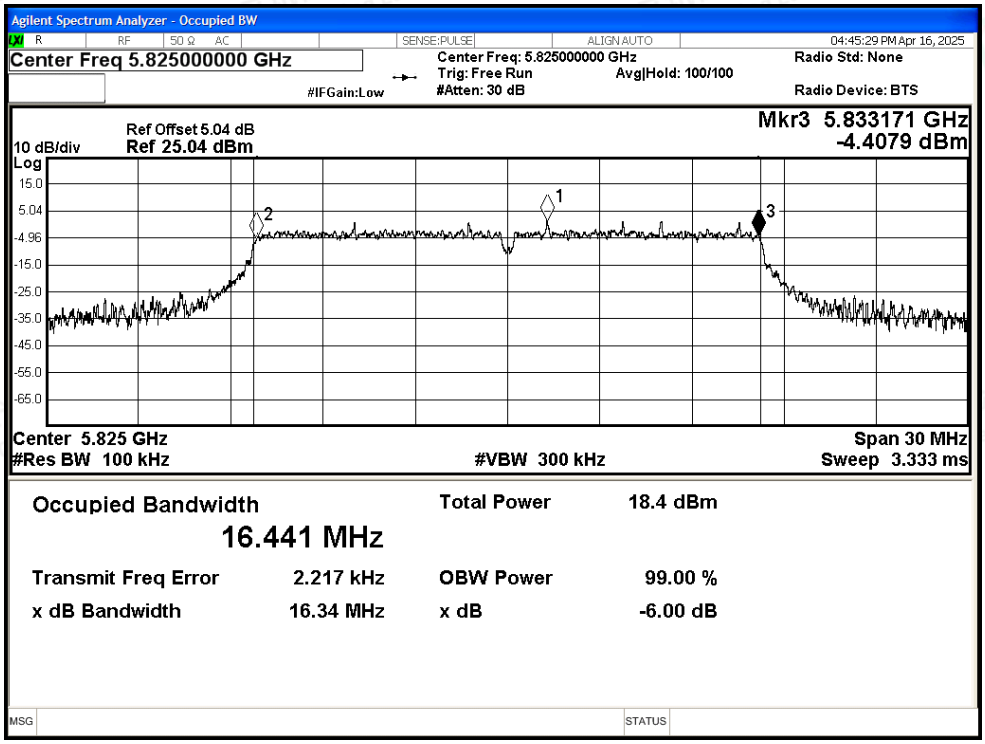
-6dB Bandwidth NVNT a 5745MHz Ant3



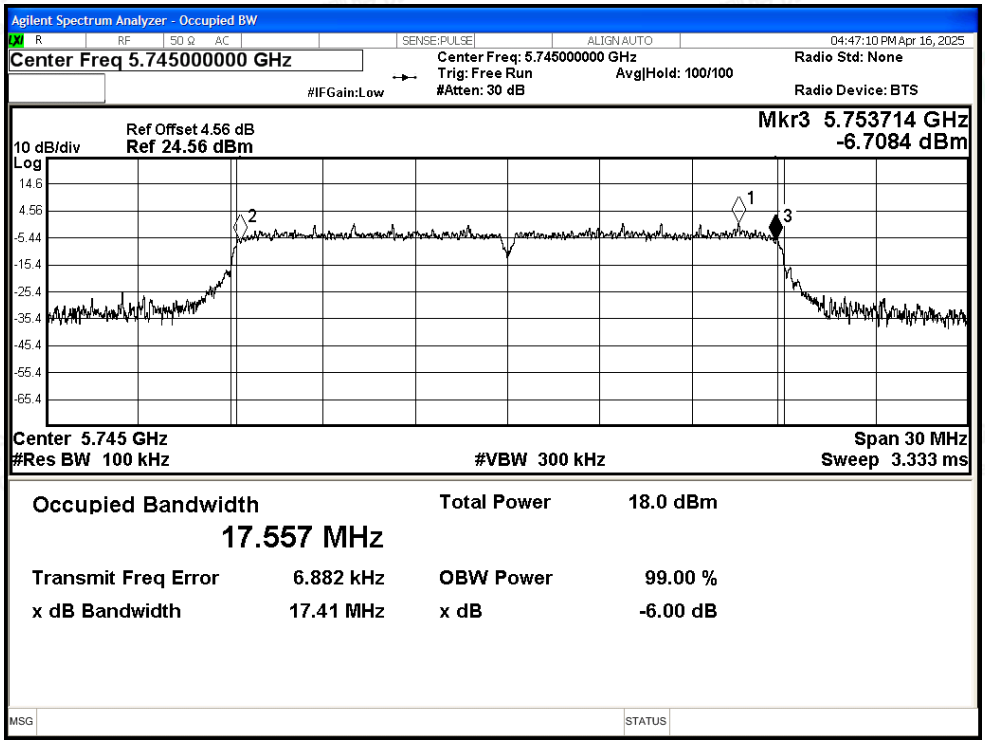
-6dB Bandwidth NVNT a 5785MHz Ant3



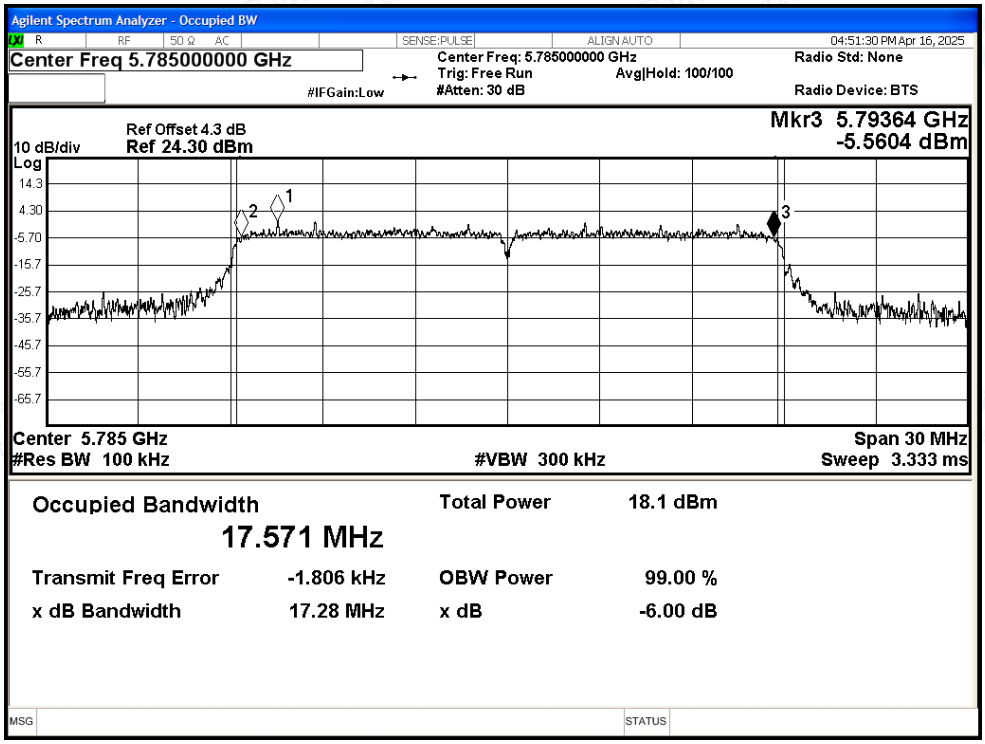
-6dB Bandwidth NVNT a 5825MHz Ant3



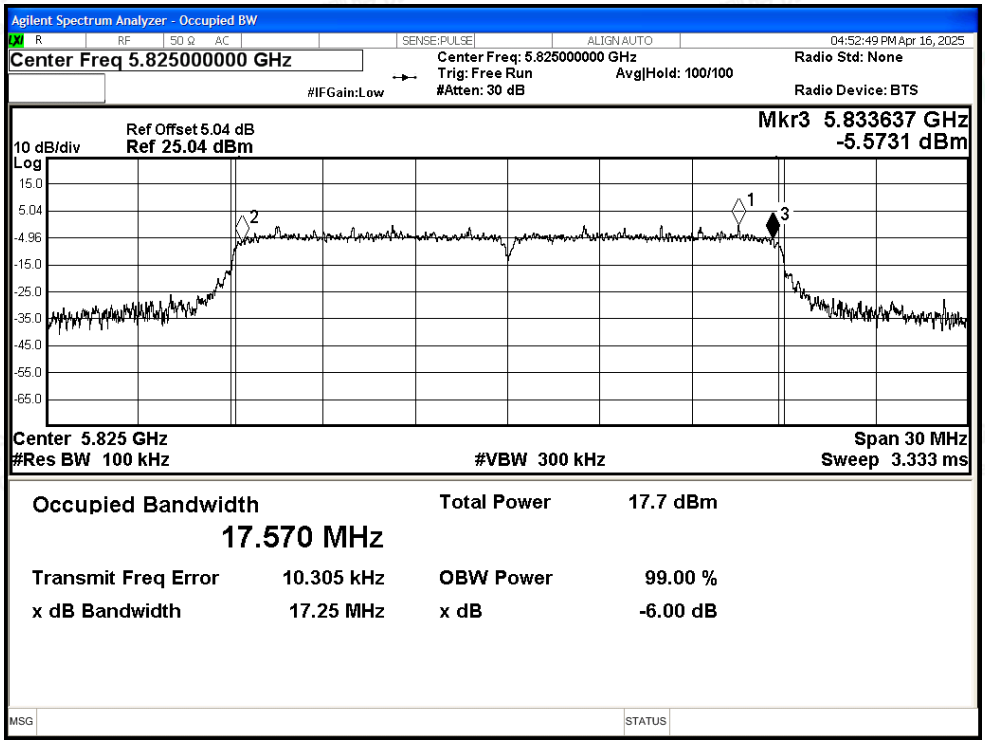
-6dB Bandwidth NVNT n20 5745MHz Ant3



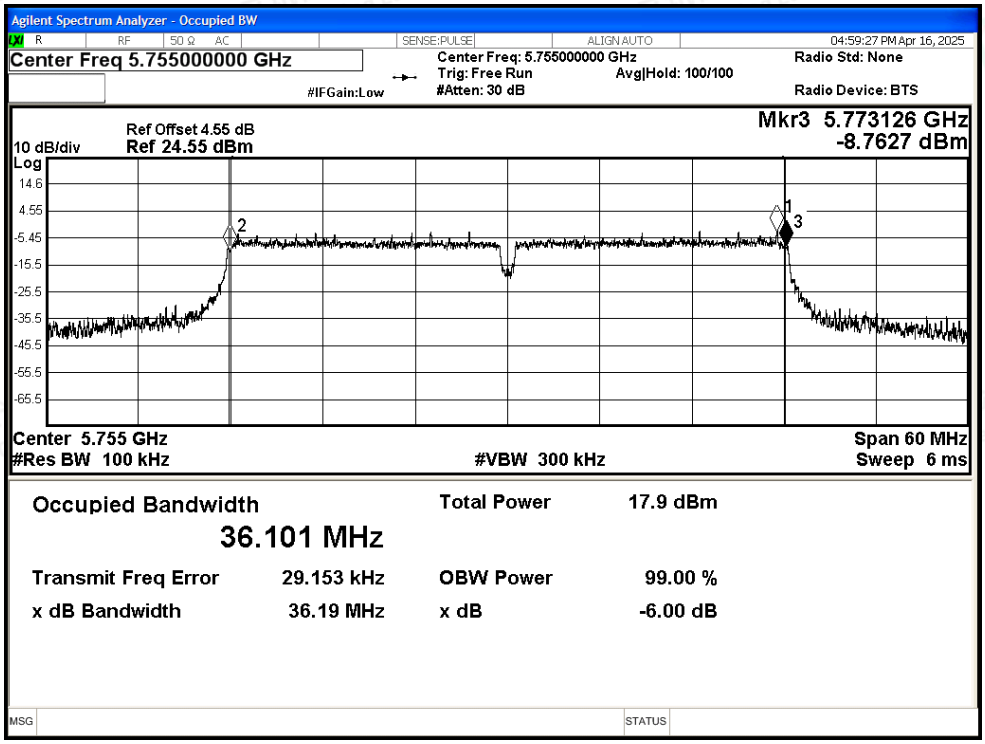
-6dB Bandwidth NVNT n20 5785MHz Ant3



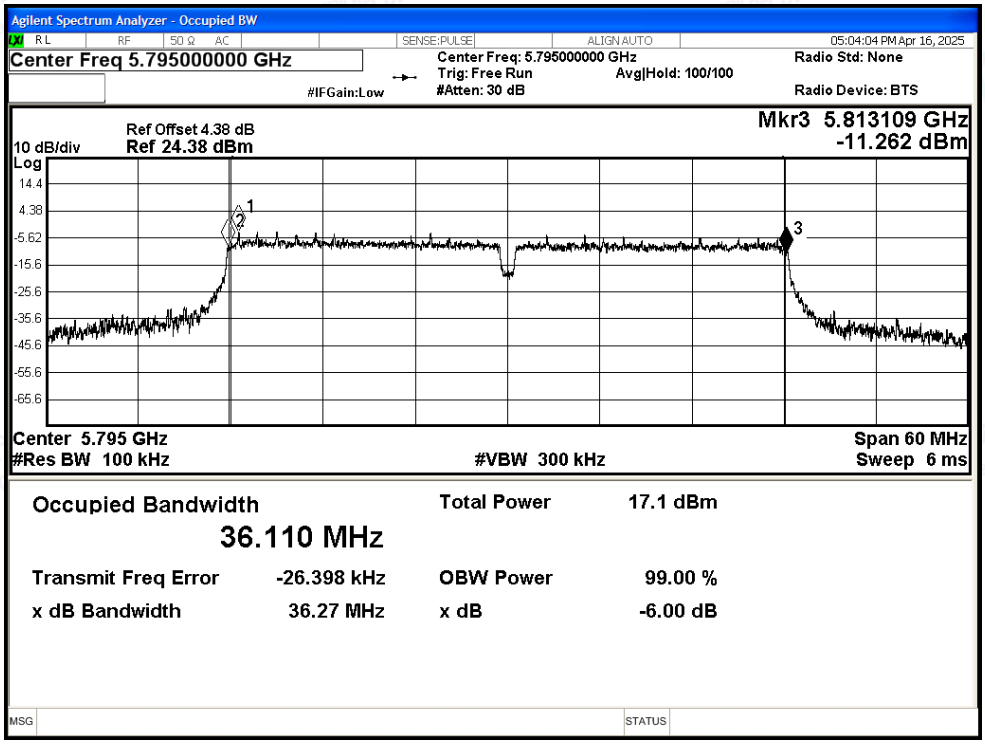
-6dB Bandwidth NVNT n20 5825MHz Ant3



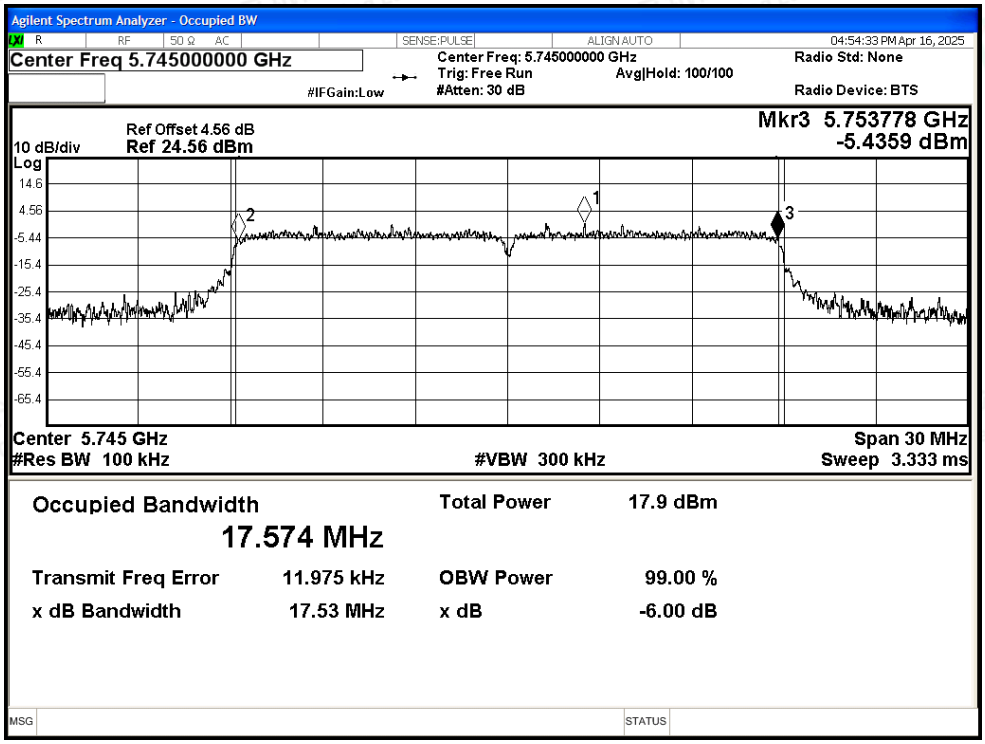
-6dB Bandwidth NVNT n40 5755MHz Ant3



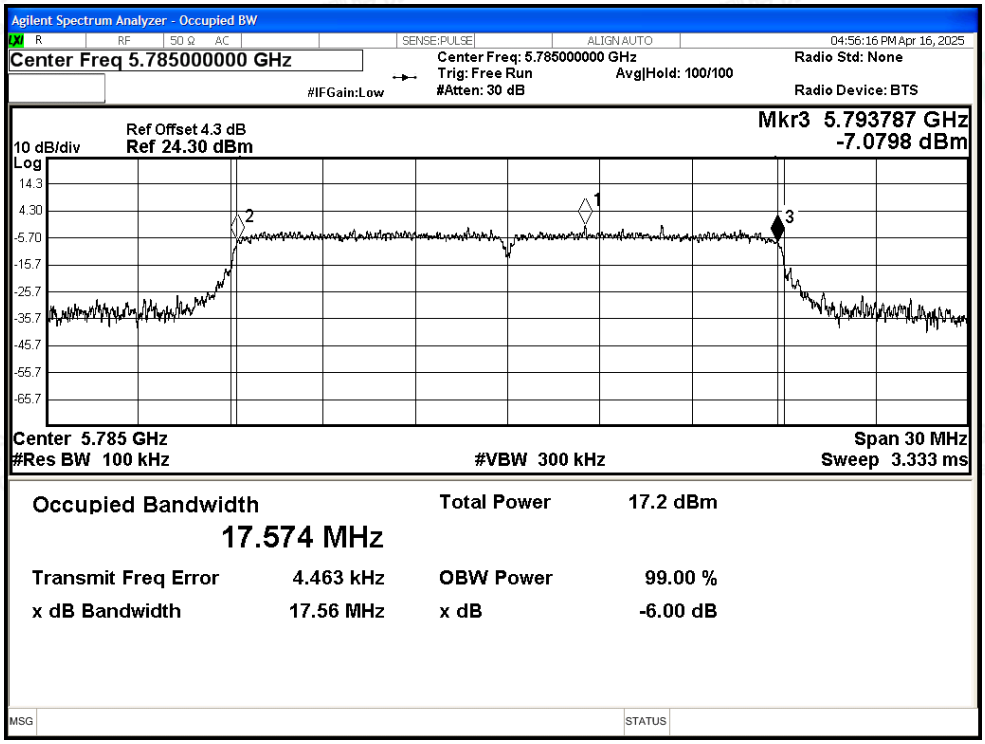
-6dB Bandwidth NVNT n40 5795MHz Ant3



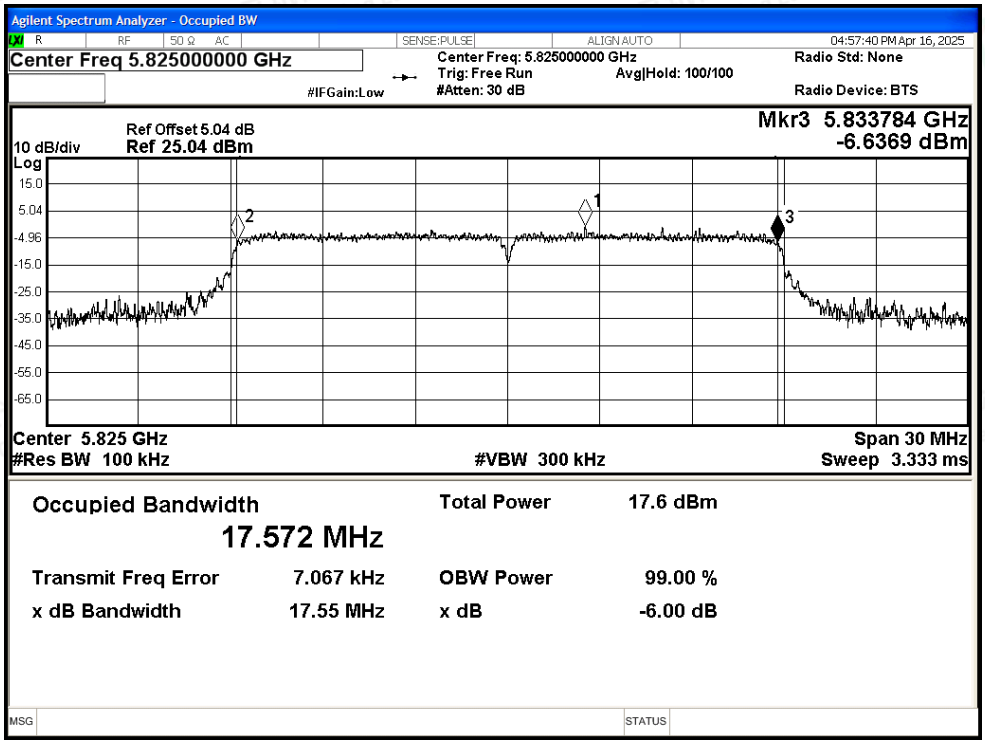
-6dB Bandwidth NVNT ac20 5745MHz Ant3



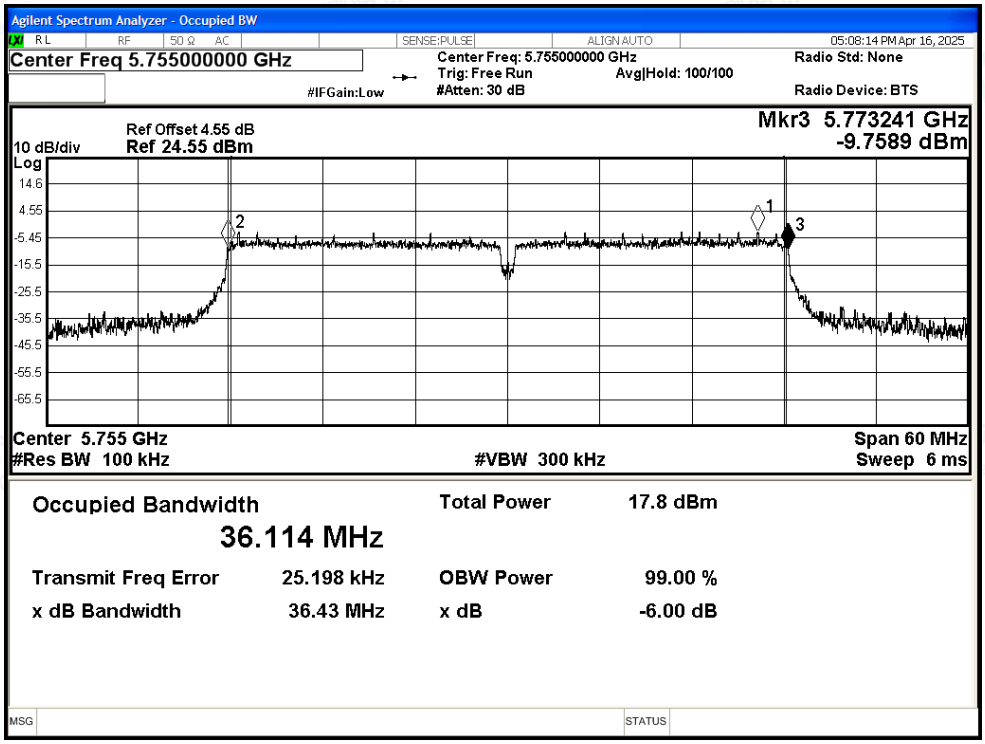
-6dB Bandwidth NVNT ac20 5785MHz Ant3



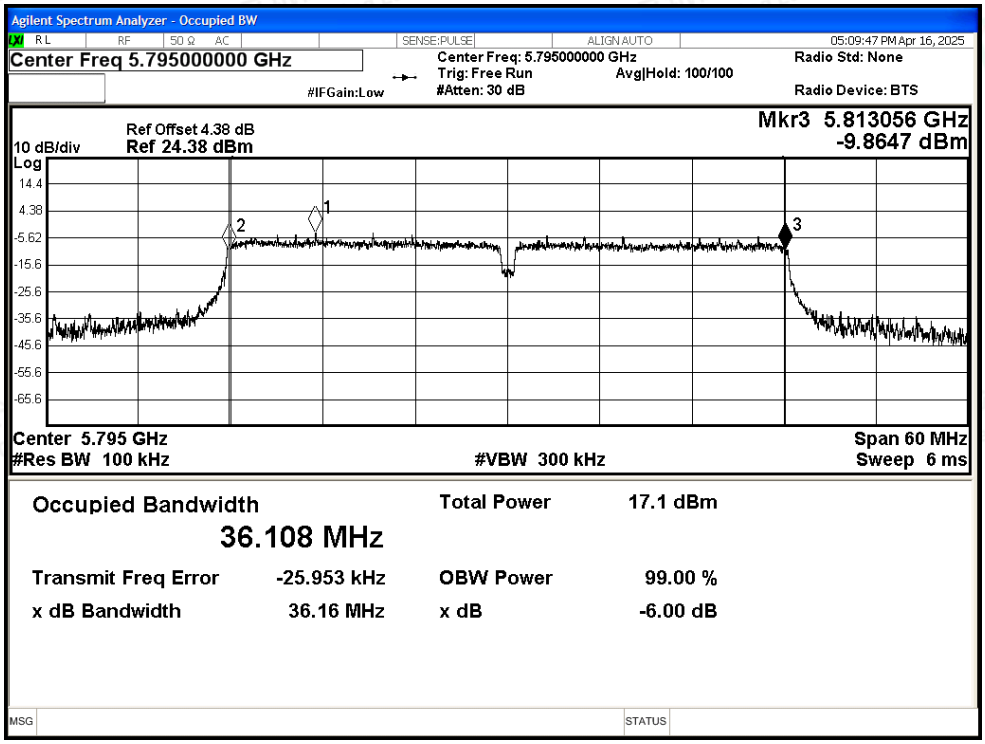
-6dB Bandwidth NVNT ac20 5825MHz Ant3



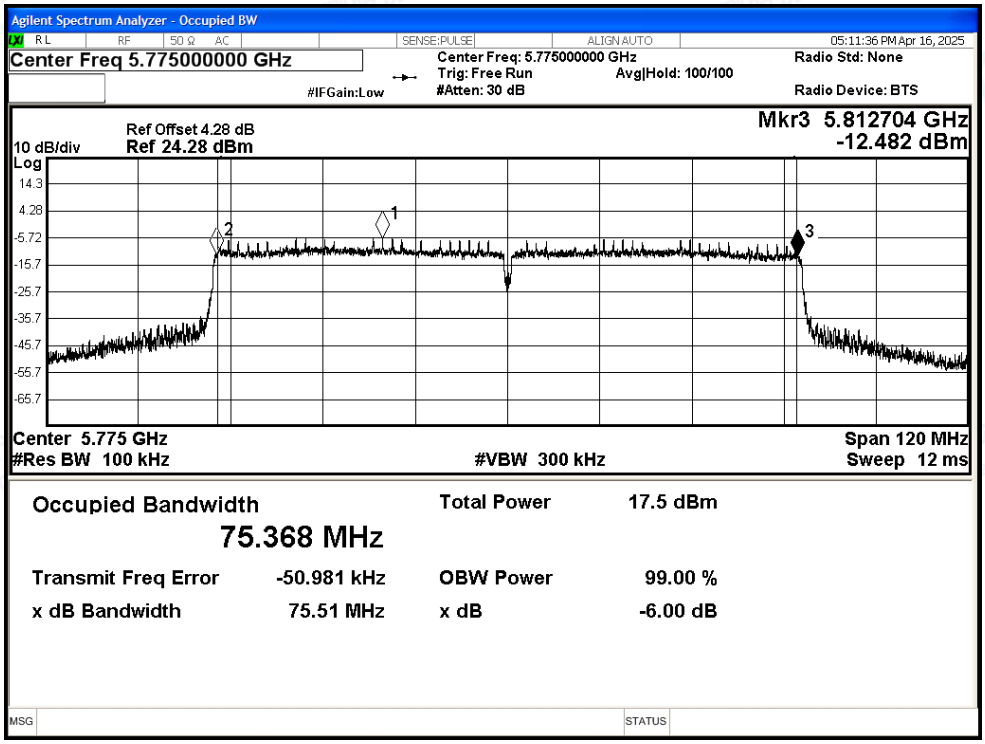
-6dB Bandwidth NVNT ac40 5755MHz Ant3



-6dB Bandwidth NVNT ac40 5795MHz Ant3



-6dB Bandwidth NVNT ac80 5775MHz Ant3



E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.1	0.24	12.34	30	Pass
NVNT	a	5785	Ant1	12.2	0.24	12.44	30	Pass
NVNT	a	5825	Ant1	12.07	0.24	12.31	30	Pass
NVNT	n20	5745	Ant1	11.07	0.12	11.19	30	Pass
NVNT	n20	5785	Ant1	11.43	0.12	11.55	30	Pass
NVNT	n20	5825	Ant1	11.9	0.12	12.02	30	Pass
NVNT	n40	5755	Ant1	11.66	0.24	11.9	30	Pass
NVNT	n40	5795	Ant1	10.96	0.24	11.2	30	Pass
NVNT	ac20	5745	Ant1	11.04	0.12	11.16	30	Pass
NVNT	ac20	5785	Ant1	11.35	0.12	11.47	30	Pass
NVNT	ac20	5825	Ant1	11.84	0.12	11.96	30	Pass
NVNT	ac40	5755	Ant1	11.72	0.24	11.96	30	Pass
NVNT	ac40	5795	Ant1	11.09	0.23	11.32	30	Pass
NVNT	ac80	5775	Ant1	10.29	0.47	10.76	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant2	12.31	0.24	12.55	30	Pass
NVNT	a	5785	Ant2	11.49	0.24	11.73	30	Pass
NVNT	a	5825	Ant2	11.91	0.24	12.15	30	Pass
NVNT	n20	5745	Ant2	11.12	0.12	11.24	30	Pass
NVNT	n20	5785	Ant2	11.36	0.12	11.48	30	Pass
NVNT	n20	5825	Ant2	11.95	0.12	12.07	30	Pass
NVNT	n40	5755	Ant2	11.67	0.24	11.91	30	Pass
NVNT	n40	5795	Ant2	10.99	0.24	11.23	30	Pass
NVNT	ac20	5745	Ant2	11.01	0.12	11.13	30	Pass
NVNT	ac20	5785	Ant2	11.33	0.12	11.45	30	Pass
NVNT	ac20	5825	Ant2	11.88	0.12	12	30	Pass
NVNT	ac40	5755	Ant2	11.19	0.24	11.43	30	Pass
NVNT	ac40	5795	Ant2	10.48	0.24	10.72	30	Pass
NVNT	ac80	5775	Ant2	10.2	0.47	10.67	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant3	12.29	0.24	12.53	29.92	Pass
NVNT	a	5785	Ant3	11.94	0.24	12.18	29.92	Pass
NVNT	a	5825	Ant3	12.42	0.24	12.66	29.92	Pass
NVNT	n20	5745	Ant3	11.48	0.28	11.76	29.92	Pass
NVNT	n20	5785	Ant3	11.75	0.28	12.03	29.92	Pass
NVNT	n20	5825	Ant3	11.27	0.28	11.55	29.92	Pass
NVNT	n40	5755	Ant3	11.28	0.24	11.52	29.92	Pass
NVNT	n40	5795	Ant3	10.45	0.24	10.69	29.92	Pass
NVNT	ac20	5745	Ant3	11.79	0.12	11.91	29.92	Pass
NVNT	ac20	5785	Ant3	11.02	0.12	11.14	29.92	Pass
NVNT	ac20	5825	Ant3	11.5	0.12	11.62	29.92	Pass
NVNT	ac40	5755	Ant3	11.24	0.24	11.48	29.92	Pass
NVNT	ac40	5795	Ant3	10.5	0.23	10.73	29.92	Pass
NVNT	ac80	5775	Ant3	10.26	0.47	10.73	29.92	Pass

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Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant2	Ant3	Ant2+Ant3		
NVNT	n20	5745	11.24	11.76	14.52	29.92	Pass
NVNT	n20	5785	11.48	12.03	14.77	29.92	Pass
NVNT	n20	5825	12.07	11.55	**14.83**	29.92	Pass
NVNT	n40	5755	11.91	11.52	14.73	29.92	Pass
NVNT	n40	5795	11.23	10.69	13.98	29.92	Pass
NVNT	ac20	5745	11.13	11.91	14.55	29.92	Pass
NVNT	ac20	5785	11.45	11.14	14.31	29.92	Pass
NVNT	ac20	5825	12	11.62	14.82	29.92	Pass
NVNT	ac40	5755	11.43	11.48	14.47	29.92	Pass
NVNT	ac40	5795	10.72	10.73	13.74	29.92	Pass
NVNT	ac80	5775	10.67	10.73	13.71	29.92	Pass

E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-1.45	0.24	-1.21	30	Pass
NVNT	a	5785	Ant1	-1.15	0.24	-0.91	30	Pass
NVNT	a	5825	Ant1	-1.52	0.24	-1.28	30	Pass
NVNT	n20	5745	Ant1	-2.83	0.12	-2.71	30	Pass
NVNT	n20	5785	Ant1	-2.44	0.12	-2.32	30	Pass
NVNT	n20	5825	Ant1	-1.95	0.12	-1.83	30	Pass
NVNT	n40	5755	Ant1	-5.3	0.24	-5.06	30	Pass
NVNT	n40	5795	Ant1	-5.35	0.24	-5.11	30	Pass
NVNT	ac20	5745	Ant1	-2.64	0.12	-2.52	30	Pass
NVNT	ac20	5785	Ant1	-2.51	0.12	-2.39	30	Pass
NVNT	ac20	5825	Ant1	-1.99	0.12	-1.87	30	Pass
NVNT	ac40	5755	Ant1	-5.09	0.24	-4.85	30	Pass
NVNT	ac40	5795	Ant1	-5.26	0.23	-5.03	30	Pass
NVNT	ac80	5775	Ant1	-9.22	0.47	-8.75	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant2	-1.15	0.24	-0.91	30	Pass
NVNT	a	5785	Ant2	-2.17	0.24	-1.93	30	Pass
NVNT	a	5825	Ant2	-1.35	0.24	-1.11	30	Pass
NVNT	n20	5745	Ant2	-2.74	0.12	-2.62	30	Pass
NVNT	n20	5785	Ant2	-2.54	0.12	-2.42	30	Pass
NVNT	n20	5825	Ant2	-1.68	0.12	-1.56	30	Pass
NVNT	n40	5755	Ant2	-4.78	0.24	-4.54	30	Pass
NVNT	n40	5795	Ant2	-5.37	0.24	-5.13	30	Pass
NVNT	ac20	5745	Ant2	-2.94	0.12	-2.82	30	Pass
NVNT	ac20	5785	Ant2	-2.33	0.12	-2.21	30	Pass
NVNT	ac20	5825	Ant2	-2.13	0.12	-2.01	30	Pass
NVNT	ac40	5755	Ant2	-5.69	0.24	-5.45	30	Pass
NVNT	ac40	5795	Ant2	-5.8	0.24	-5.56	30	Pass
NVNT	ac80	5775	Ant2	-9.43	0.47	-8.96	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant3	-0.97	0.24	-0.73	29.92	Pass
NVNT	a	5785	Ant3	-1.48	0.24	-1.24	29.92	Pass
NVNT	a	5825	Ant3	-1.26	0.24	-1.02	29.92	Pass
NVNT	n20	5745	Ant3	-2.25	0.28	-1.97	29.92	Pass
NVNT	n20	5785	Ant3	-2.17	0.28	-1.89	29.92	Pass
NVNT	n20	5825	Ant3	-2.62	0.28	-2.34	29.92	Pass
NVNT	n40	5755	Ant3	-5.36	0.24	-5.12	29.92	Pass
NVNT	n40	5795	Ant3	-5.97	0.24	-5.73	29.92	Pass
NVNT	ac20	5745	Ant3	-2.2	0.12	-2.08	29.92	Pass
NVNT	ac20	5785	Ant3	-2.93	0.12	-2.81	29.92	Pass
NVNT	ac20	5825	Ant3	-2.39	0.12	-2.27	29.92	Pass
NVNT	ac40	5755	Ant3	-5.35	0.24	-5.11	29.92	Pass
NVNT	ac40	5795	Ant3	-5.88	0.23	-5.65	29.92	Pass
NVNT	ac80	5775	Ant3	-9.1	0.47	-8.63	29.92	Pass

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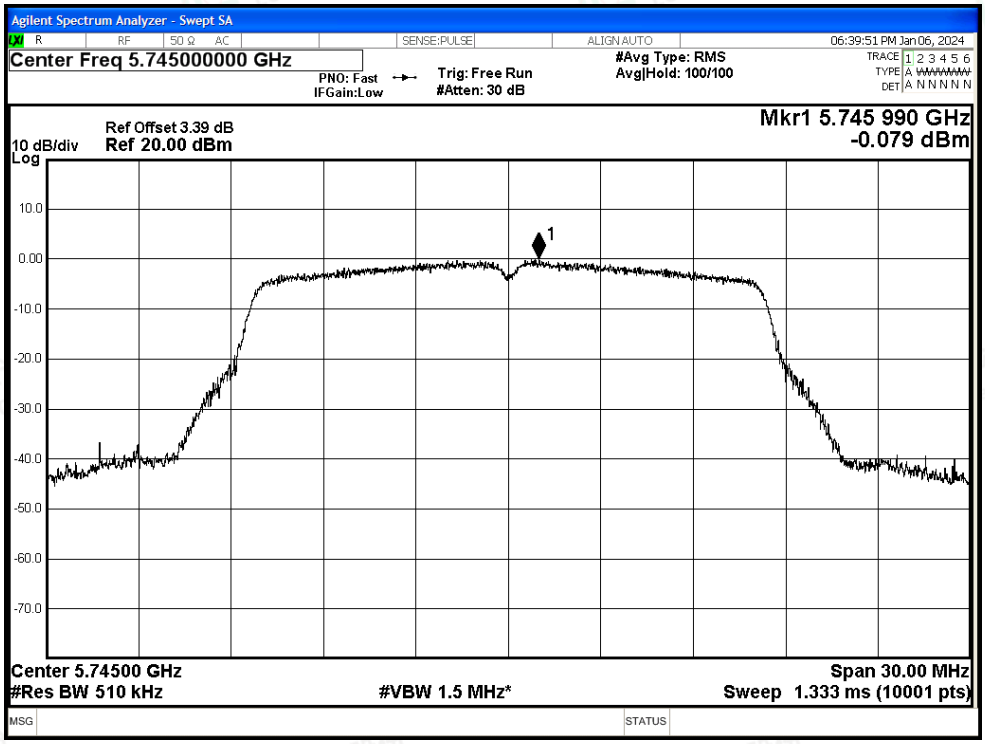
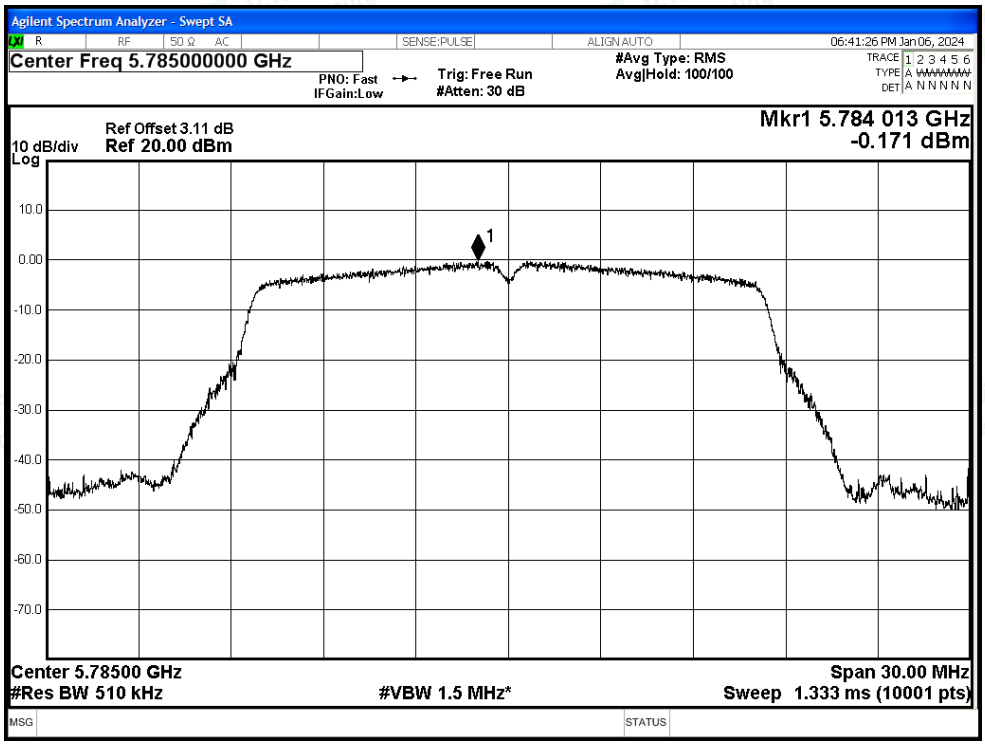
Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant2	Ant3	Ant2+Ant3		
NVNT	n20	5745	-2.62	-1.97	0.73	26.91	Pass
NVNT	n20	5785	-2.42	-1.89	0.86	26.91	Pass
NVNT	n20	5825	-1.56	-2.34	1.08	26.91	Pass
NVNT	n40	5755	-4.54	-5.12	-1.81	26.91	Pass
NVNT	n40	5795	-5.13	-5.73	-2.41	26.91	Pass
NVNT	ac20	5745	-2.82	-2.08	0.58	26.91	Pass
NVNT	ac20	5785	-2.21	-2.81	0.51	26.91	Pass
NVNT	ac20	5825	-2.01	-2.27	0.87	26.91	Pass
NVNT	ac40	5755	-5.45	-5.11	-2.27	26.91	Pass
NVNT	ac40	5795	-5.56	-5.65	-2.59	26.91	Pass
NVNT	ac80	5775	-8.96	-8.63	-5.78	26.91	Pass

Test Graphs

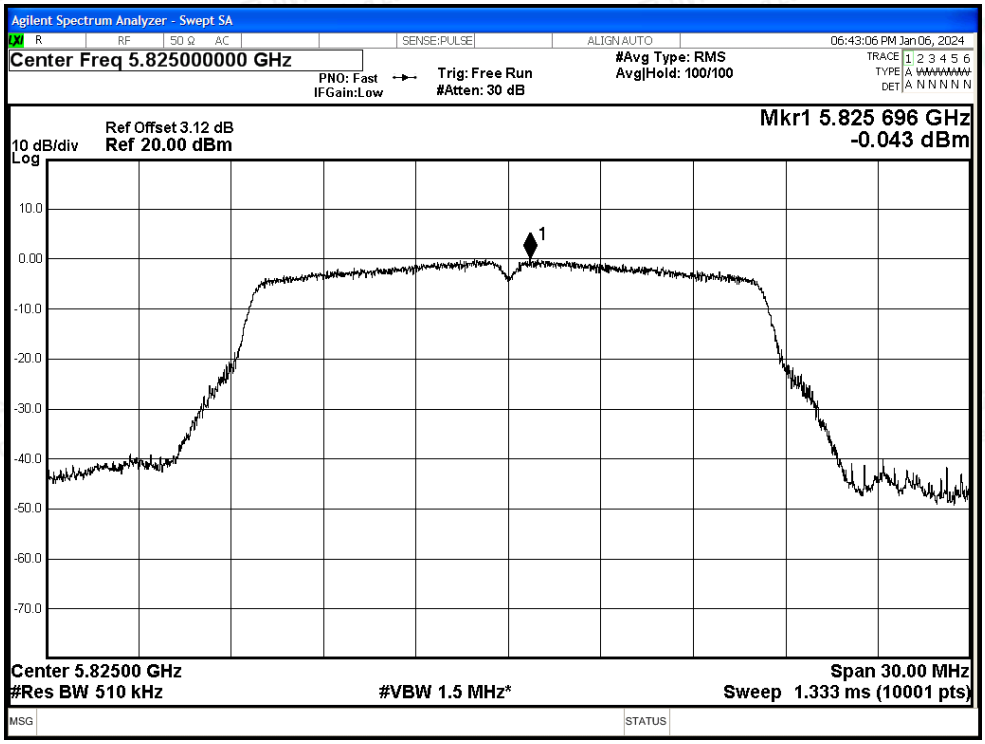
PSD NVNT a 5745MHz Ant1



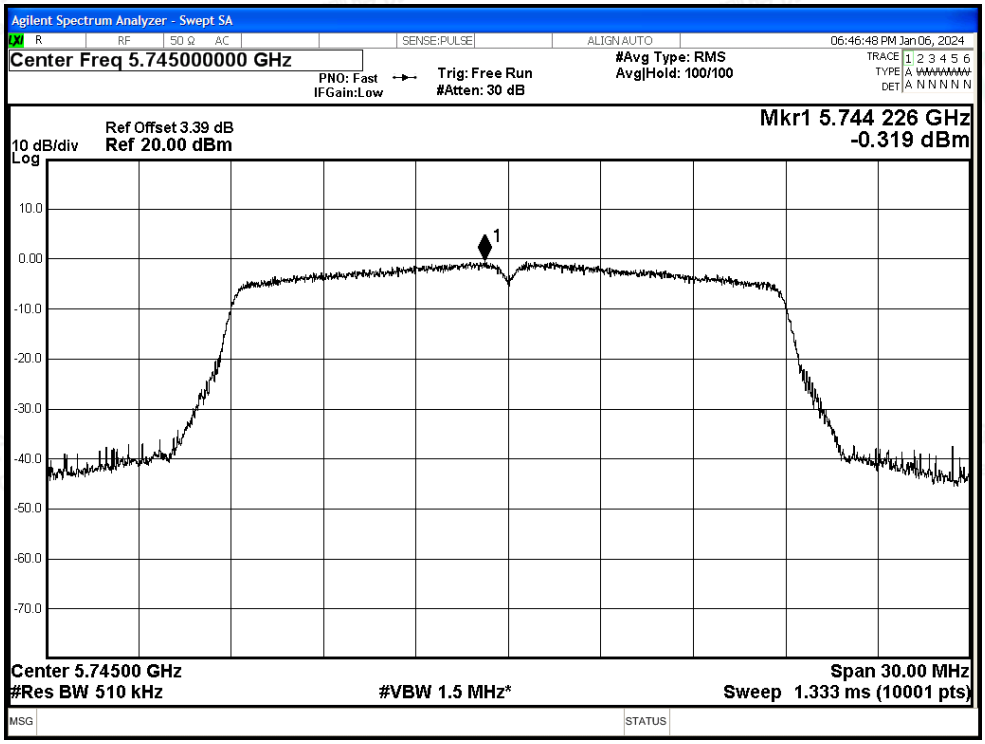
PSD NVNT a 5785MHz Ant1



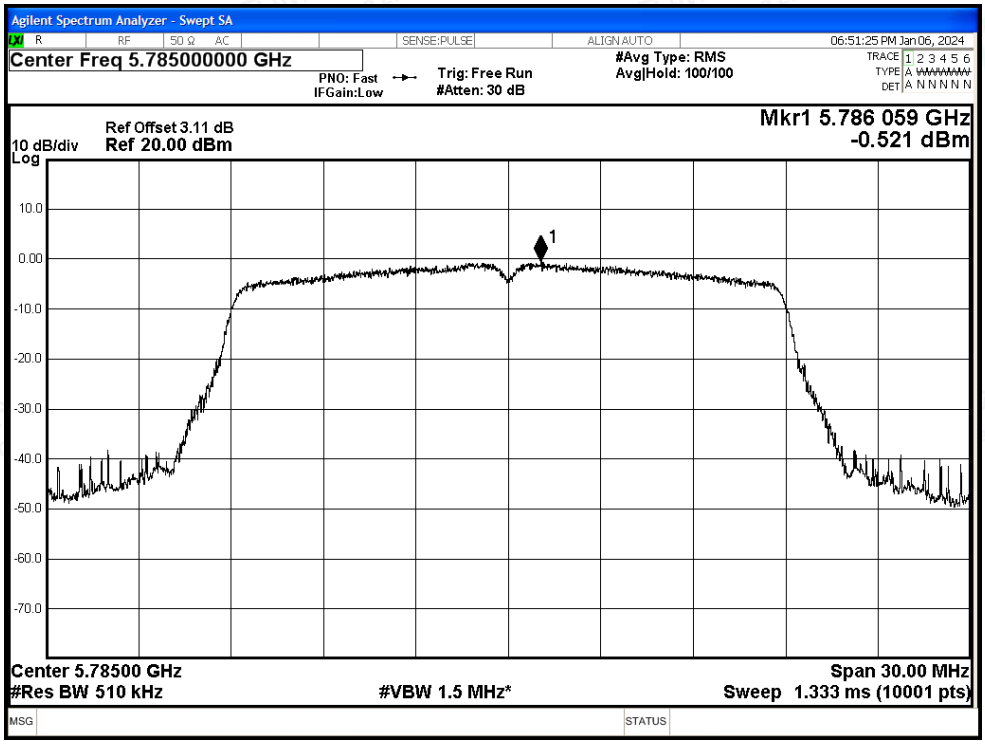
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



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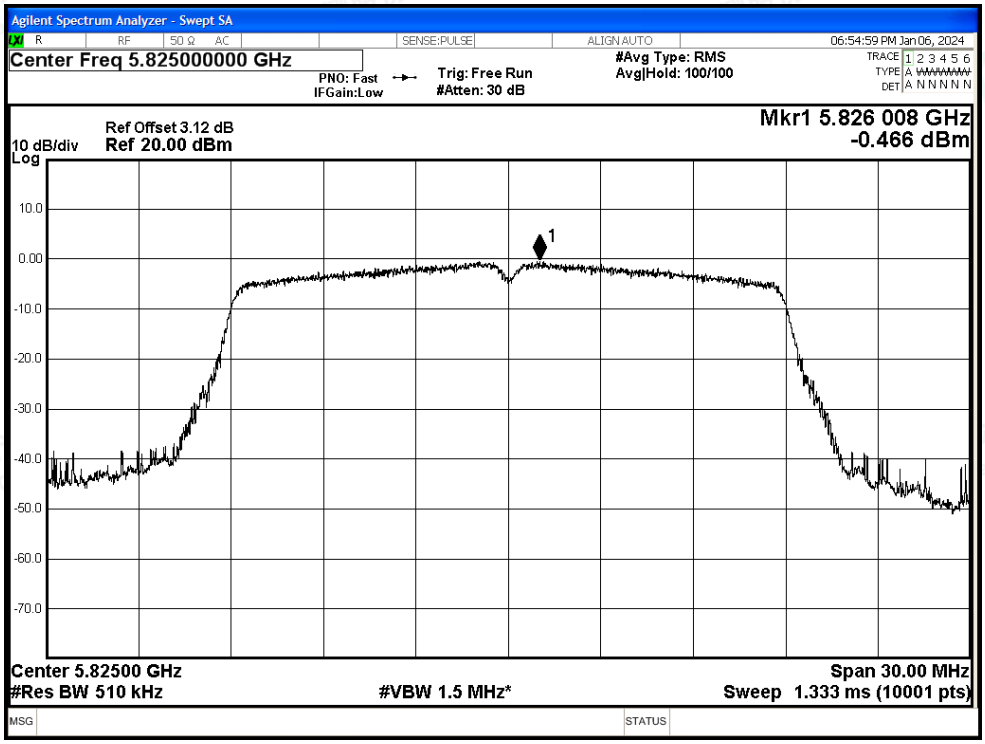
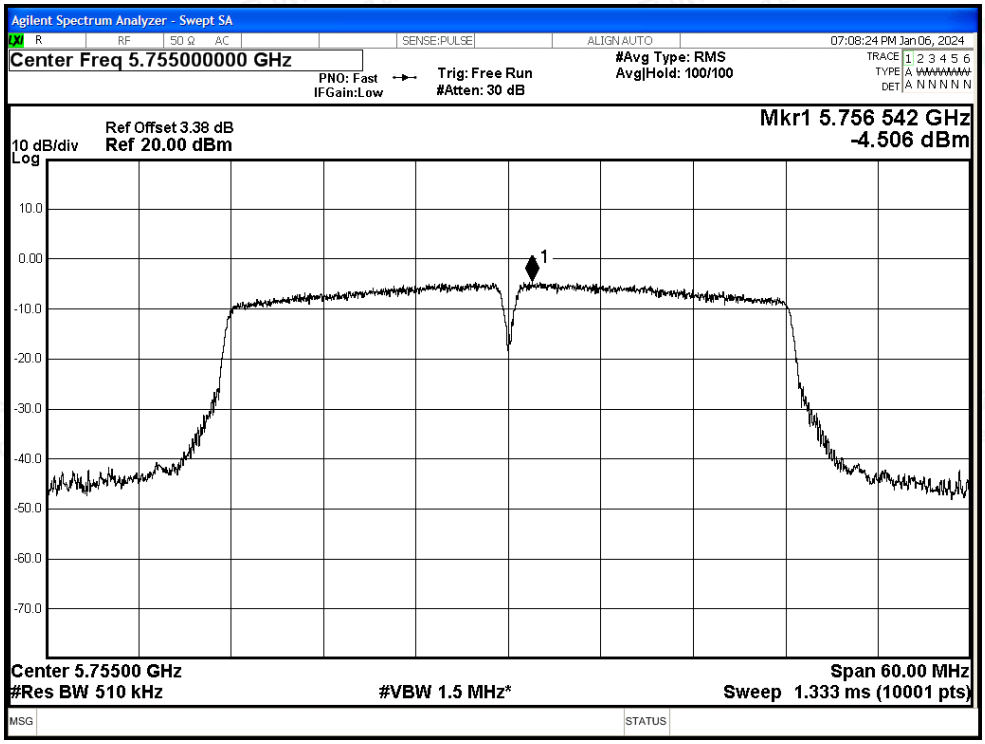


PSD NVNT n40 5755MHz Ant1



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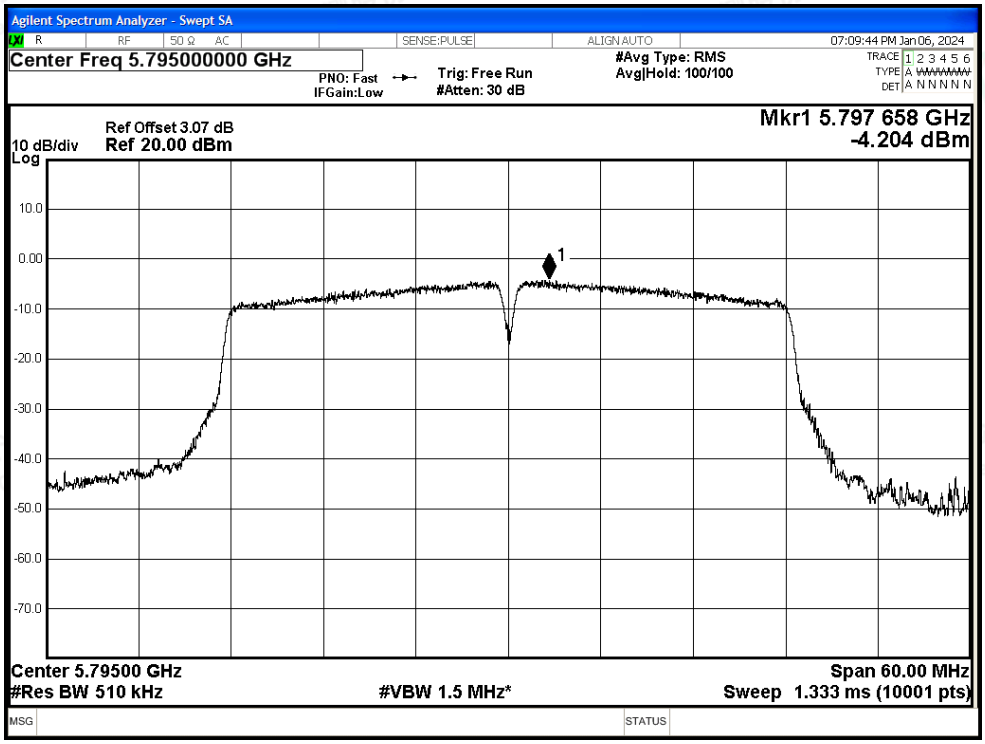
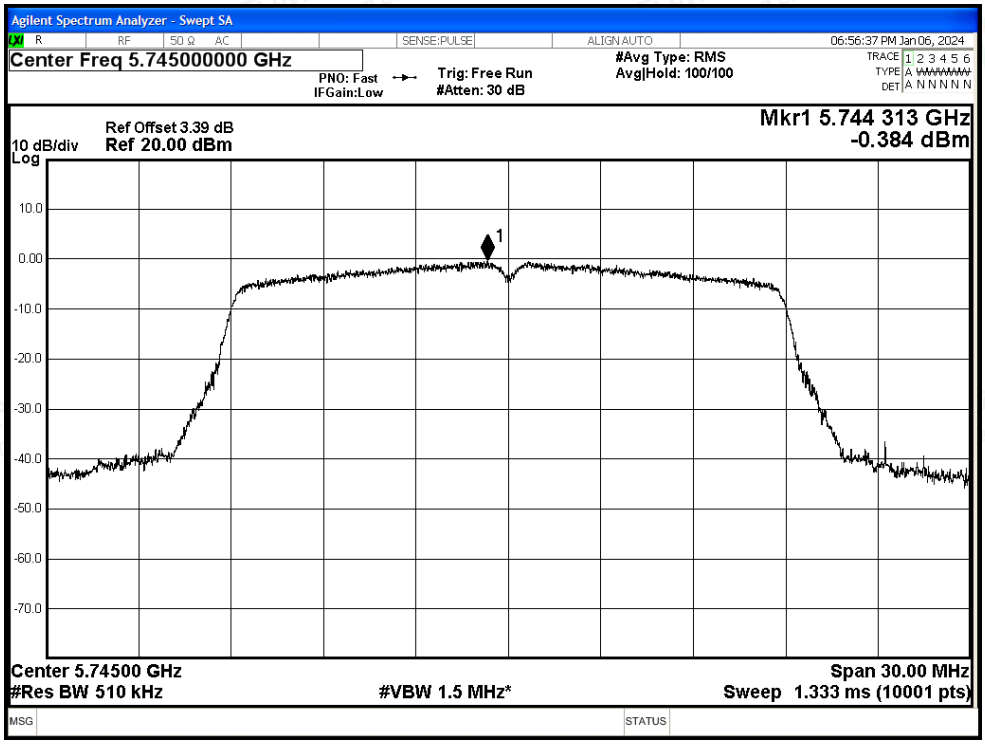


PSD NVNT ac20 5745MHz Ant1



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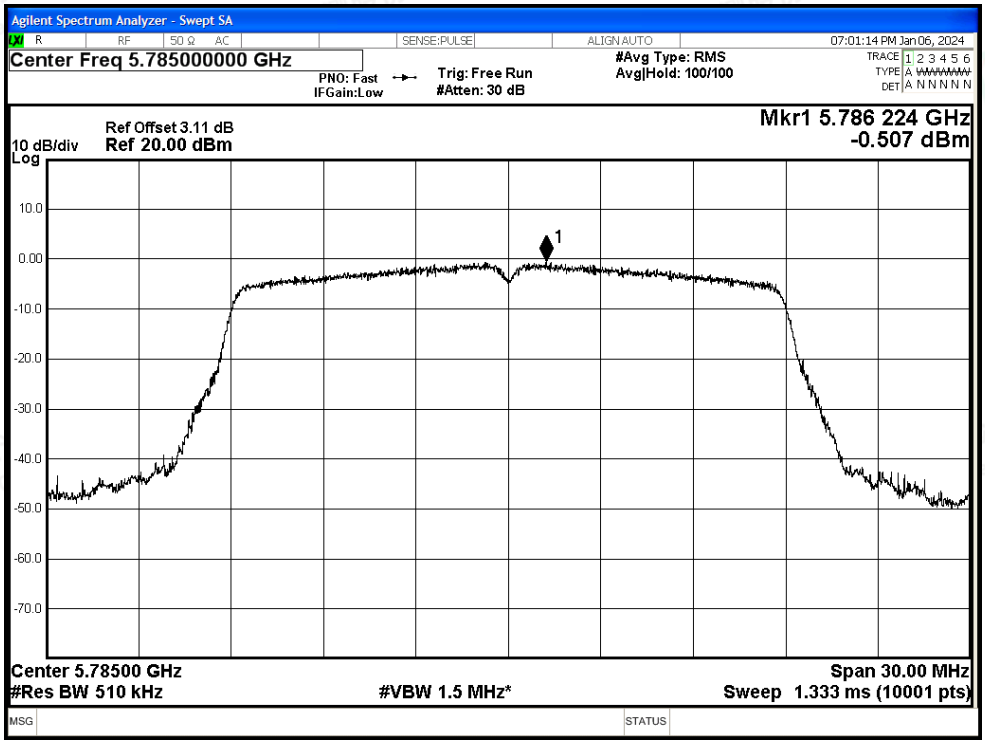

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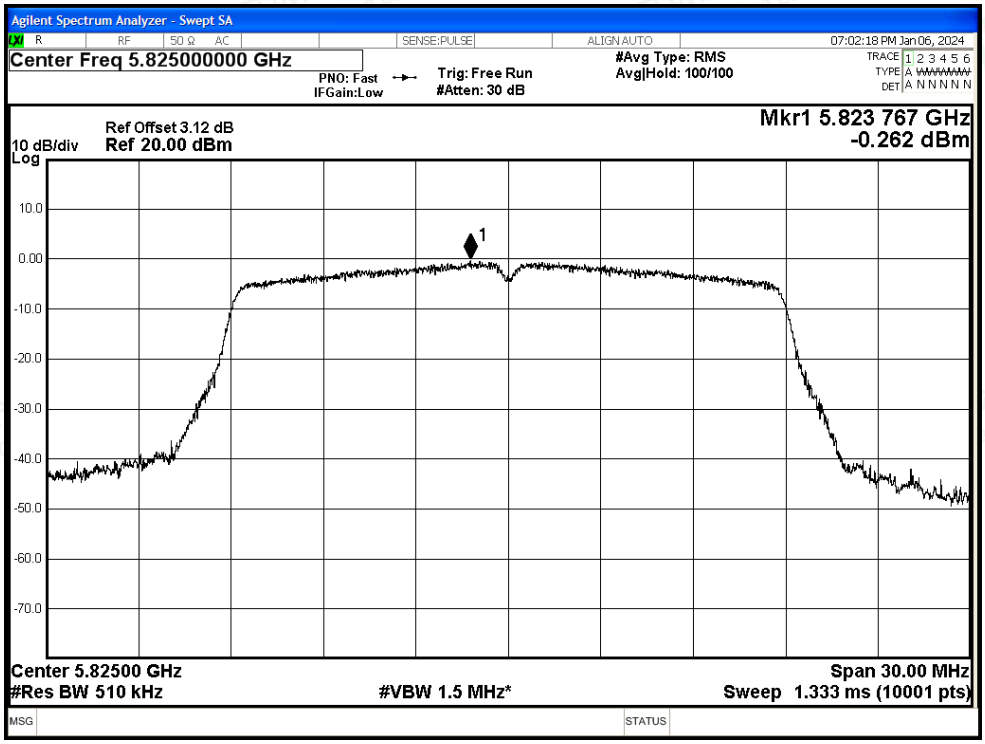

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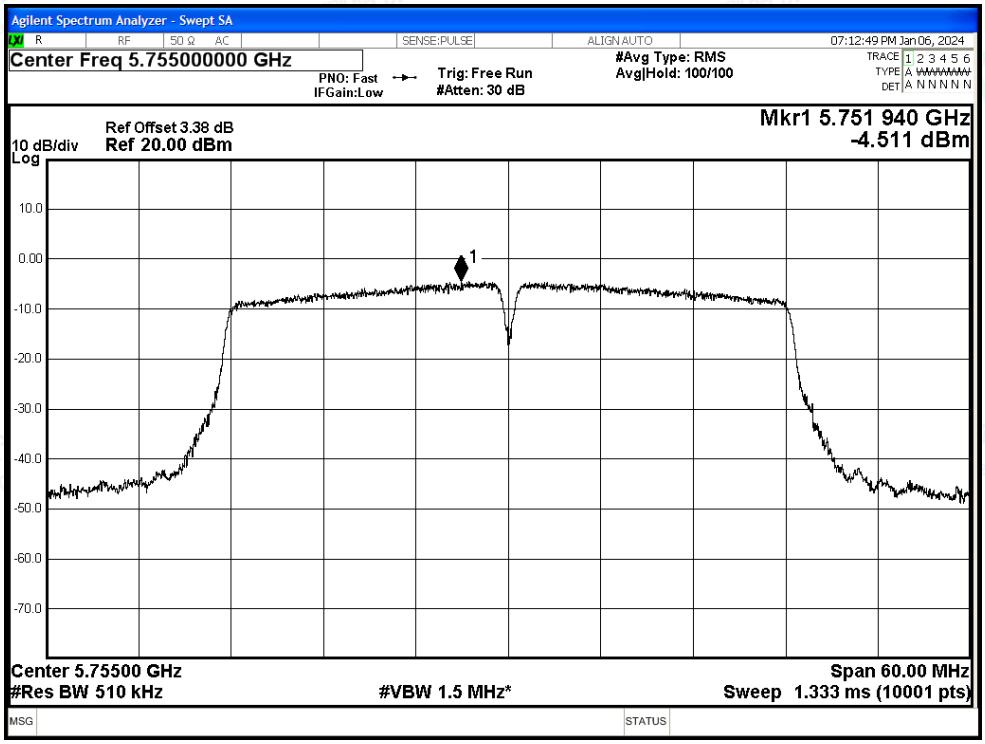
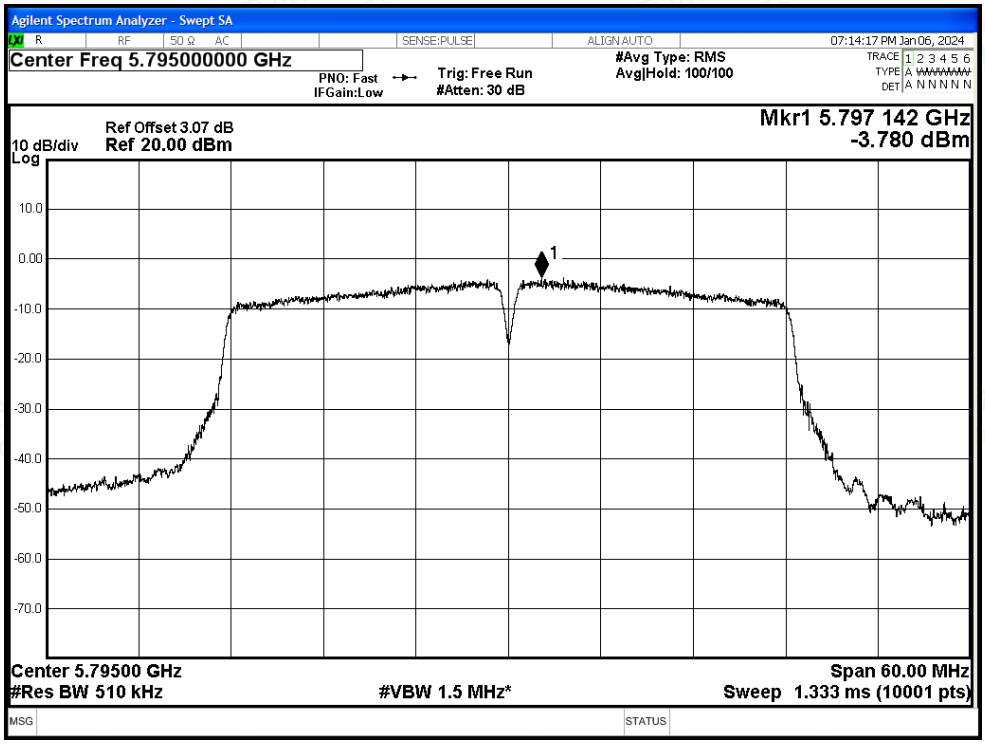
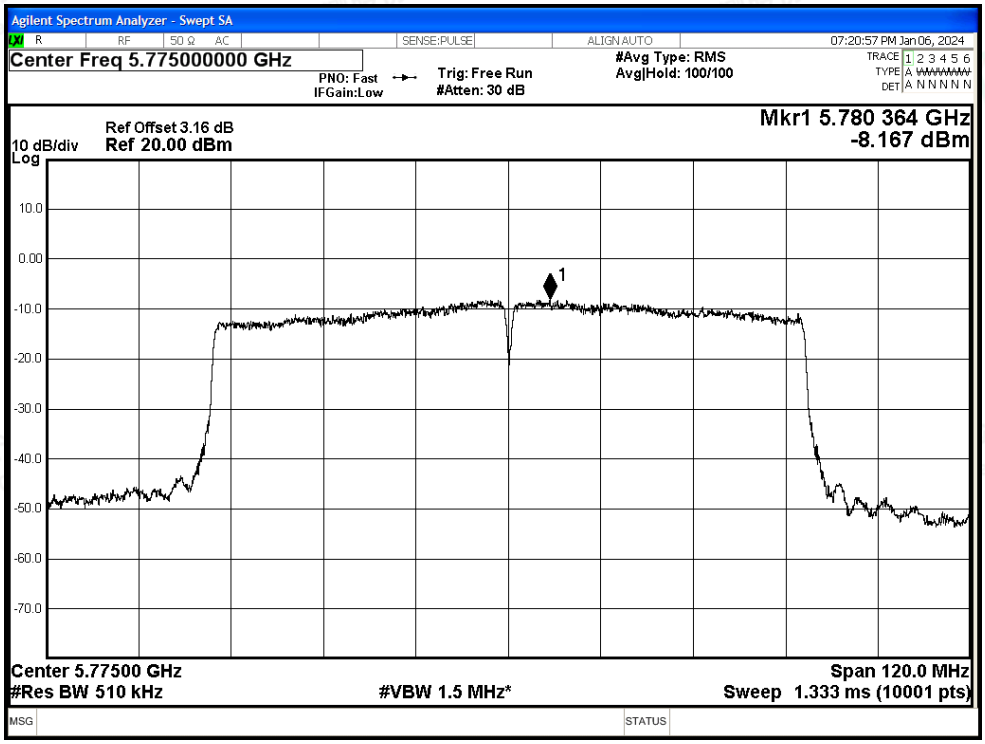


PSD NVNT ac40 5795MHz Ant1

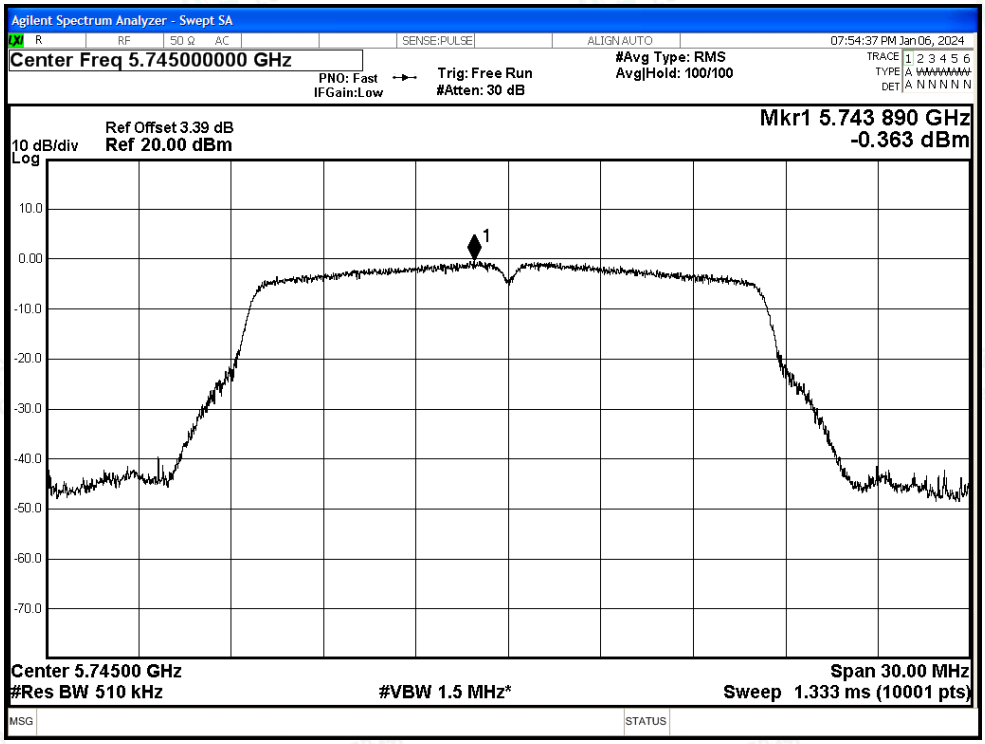


PSD NVNT ac80 5775MHz Ant1

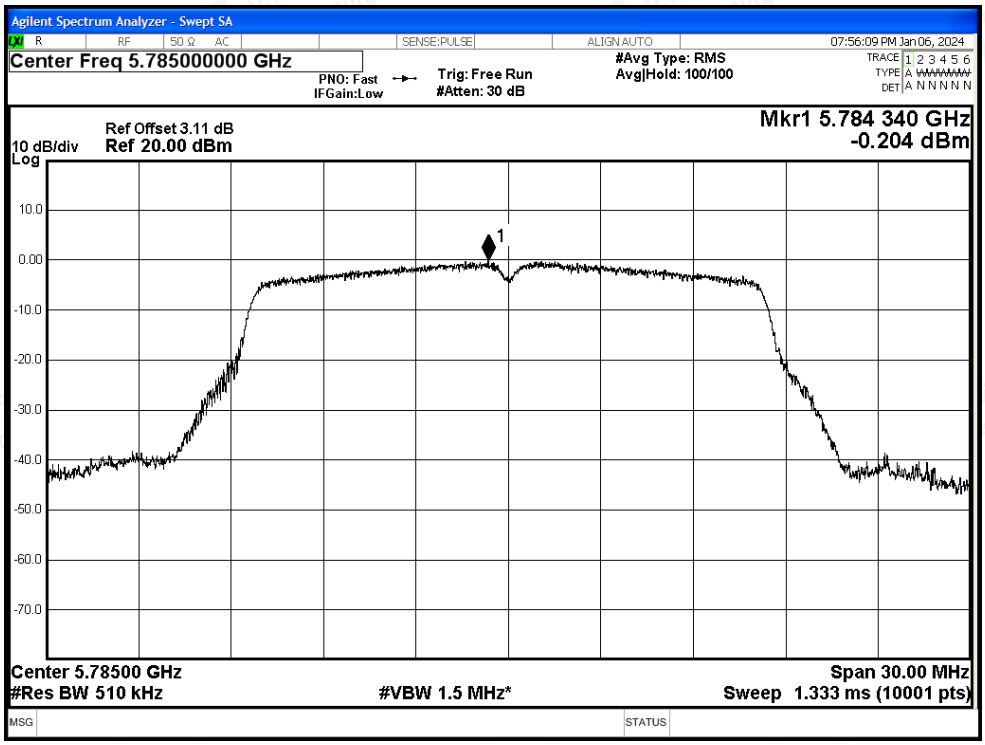


Test Graphs

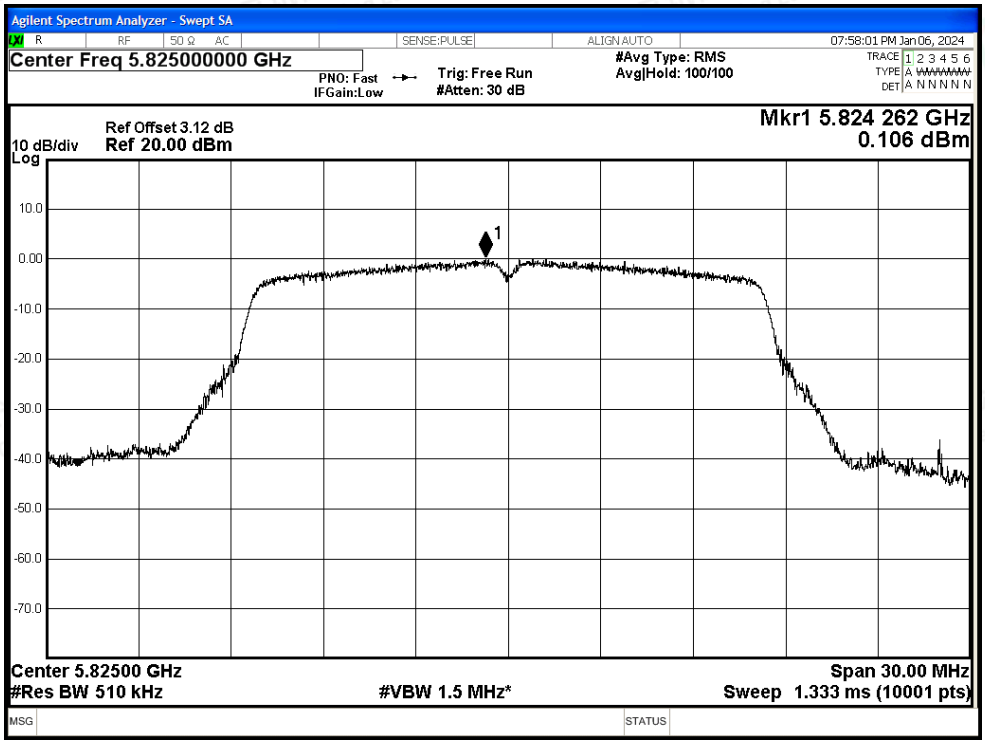
PSD NVNT a 5745MHz Ant2



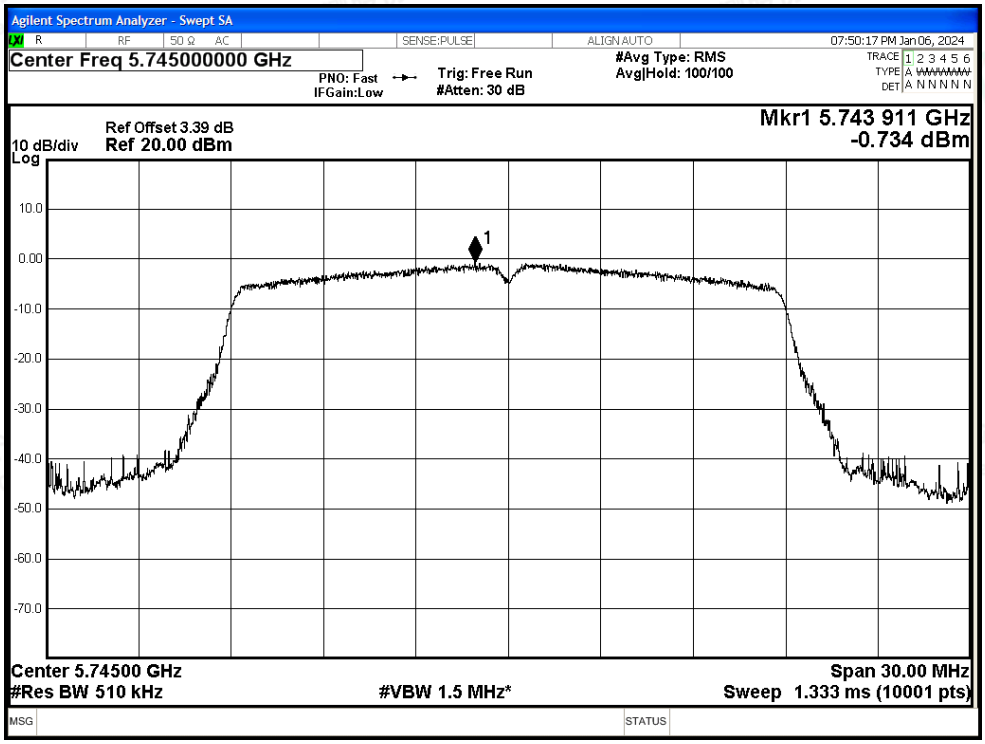
PSD NVNT a 5785MHz Ant2



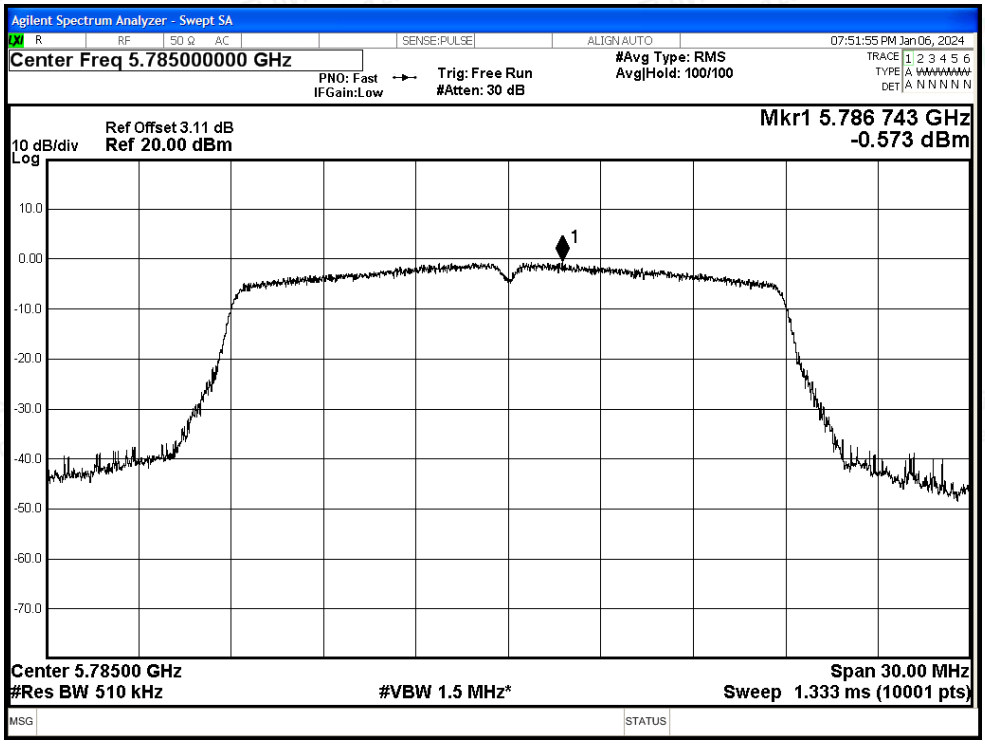
PSD NVNT a 5825MHz Ant2



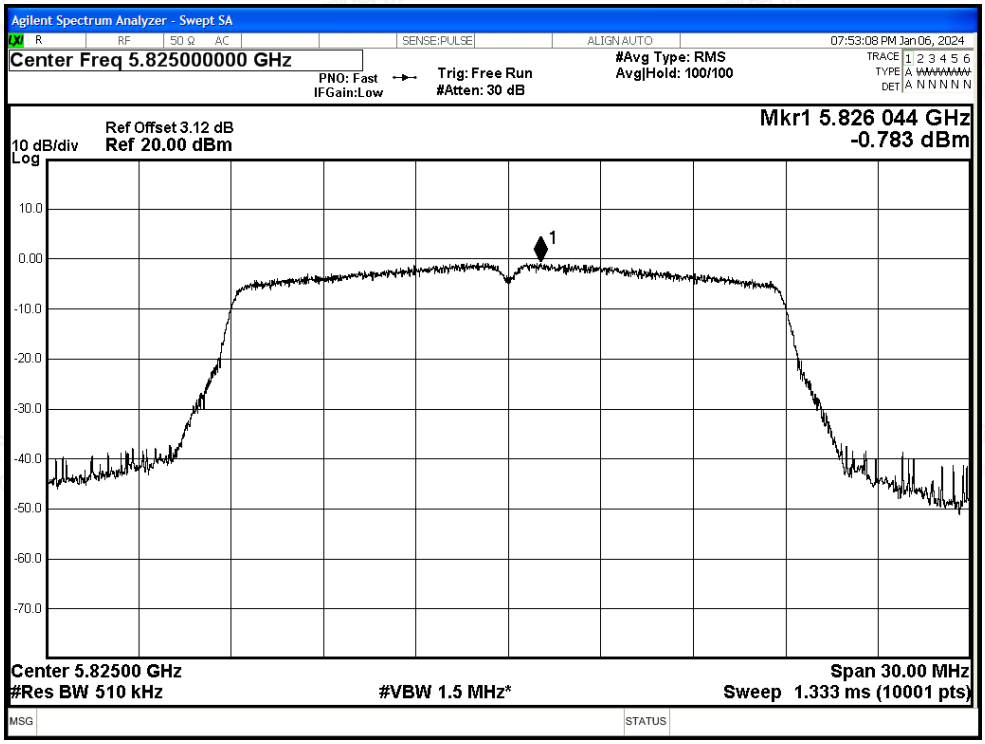
PSD NVNT n20 5745MHz Ant2



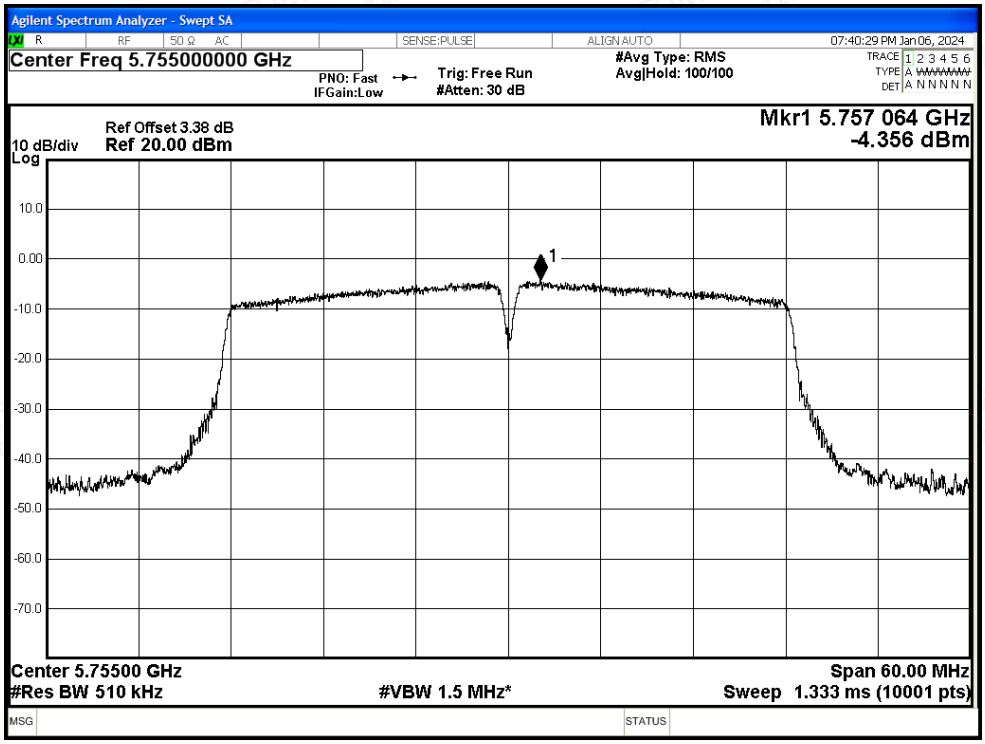
PSD NVNT n20 5785MHz Ant2



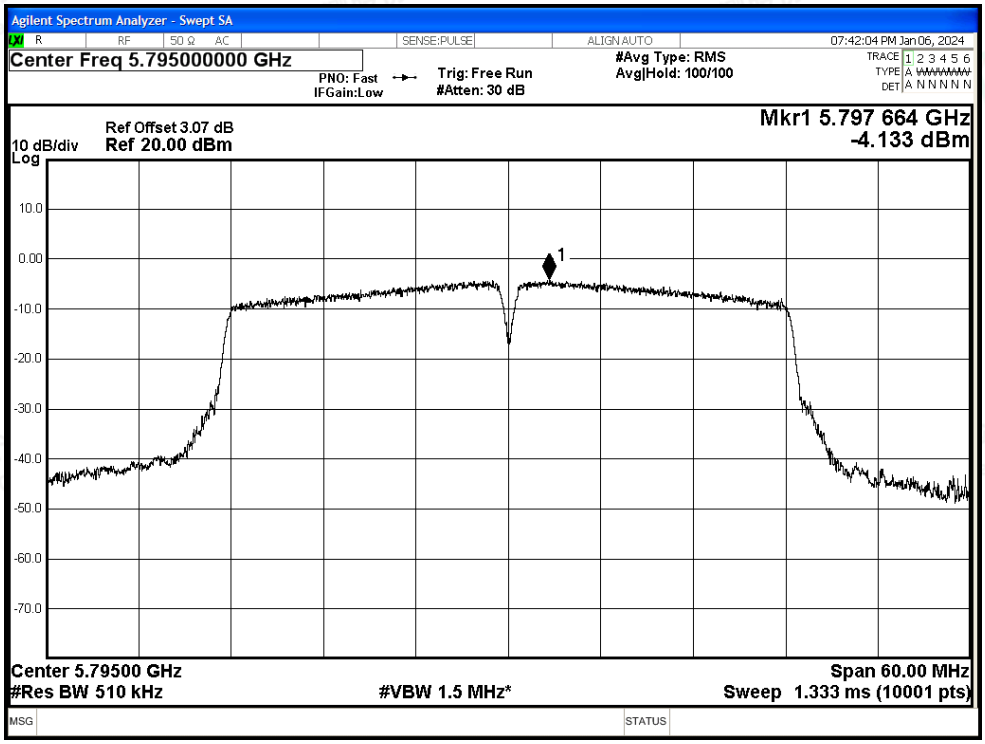
PSD NVNT n20 5825MHz Ant2



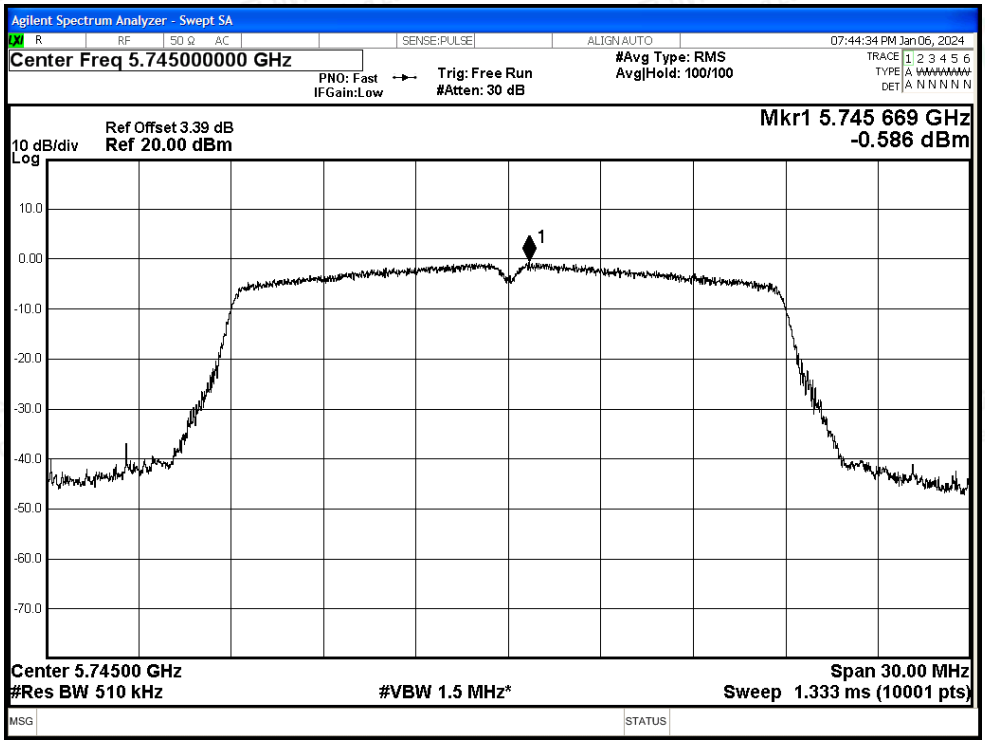
PSD NVNT n40 5755MHz Ant2



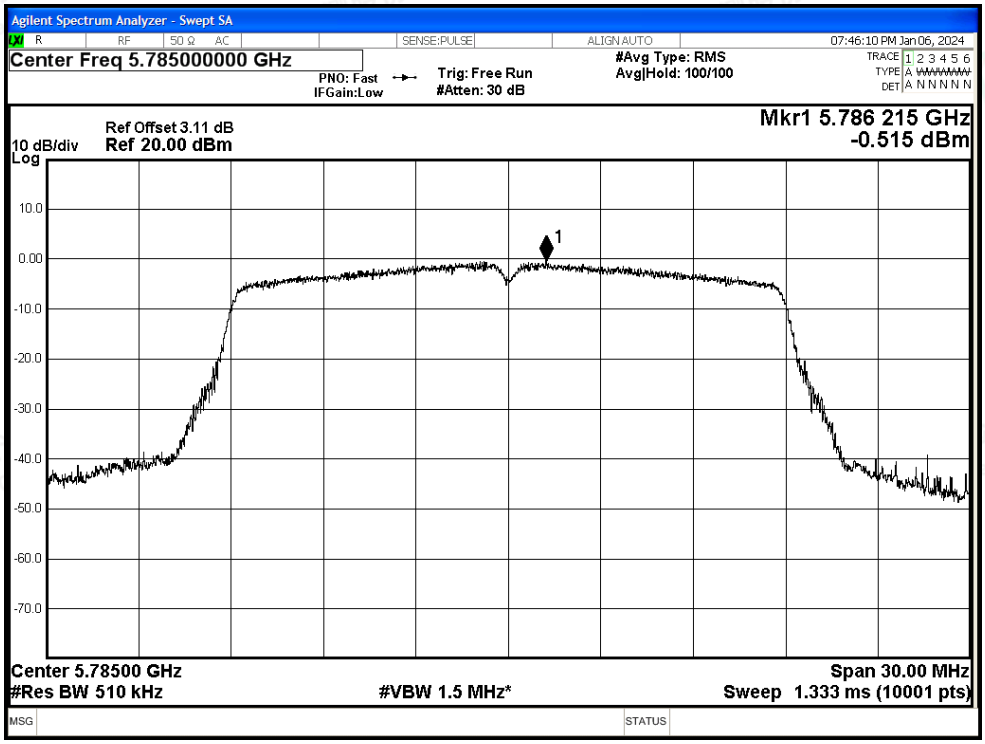
PSD NVNT n40 5795MHz Ant2



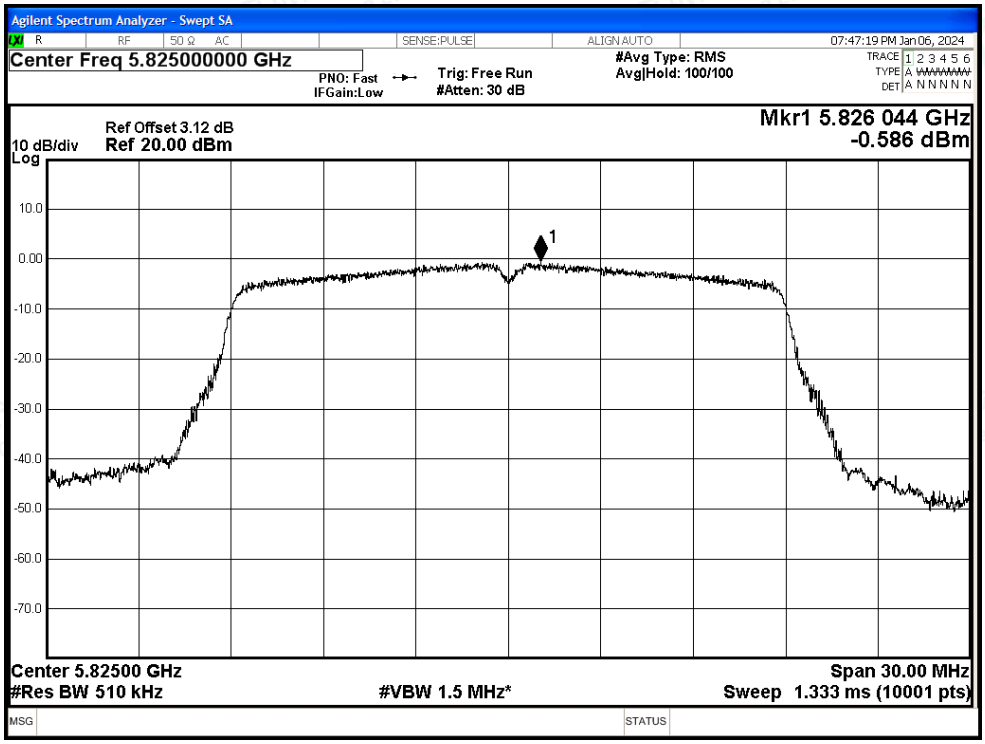
PSD NVNT ac20 5745MHz Ant2



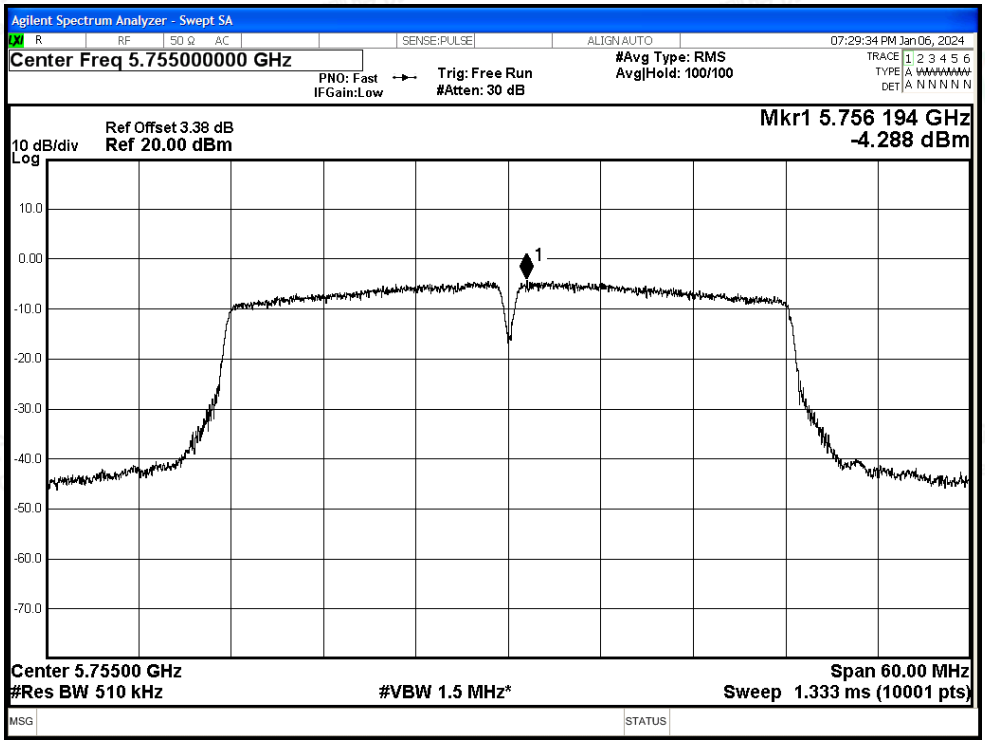
PSD NVNT ac20 5785MHz Ant2



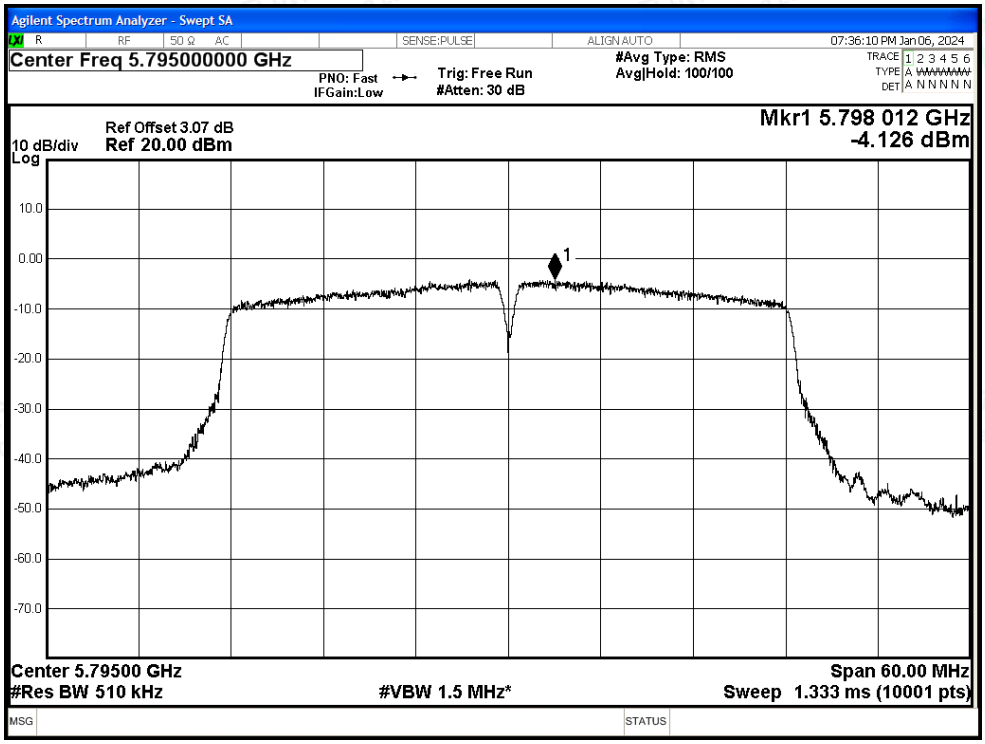
PSD NVNT ac20 5825MHz Ant2



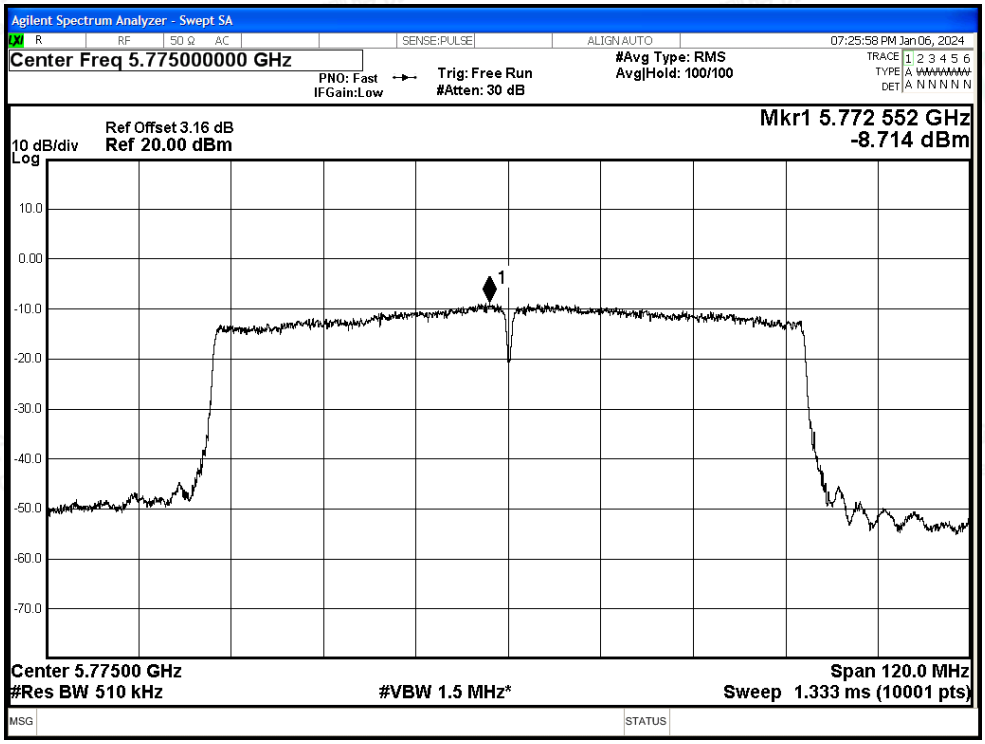
PSD NVNT ac40 5755MHz Ant2



PSD NVNT ac40 5795MHz Ant2

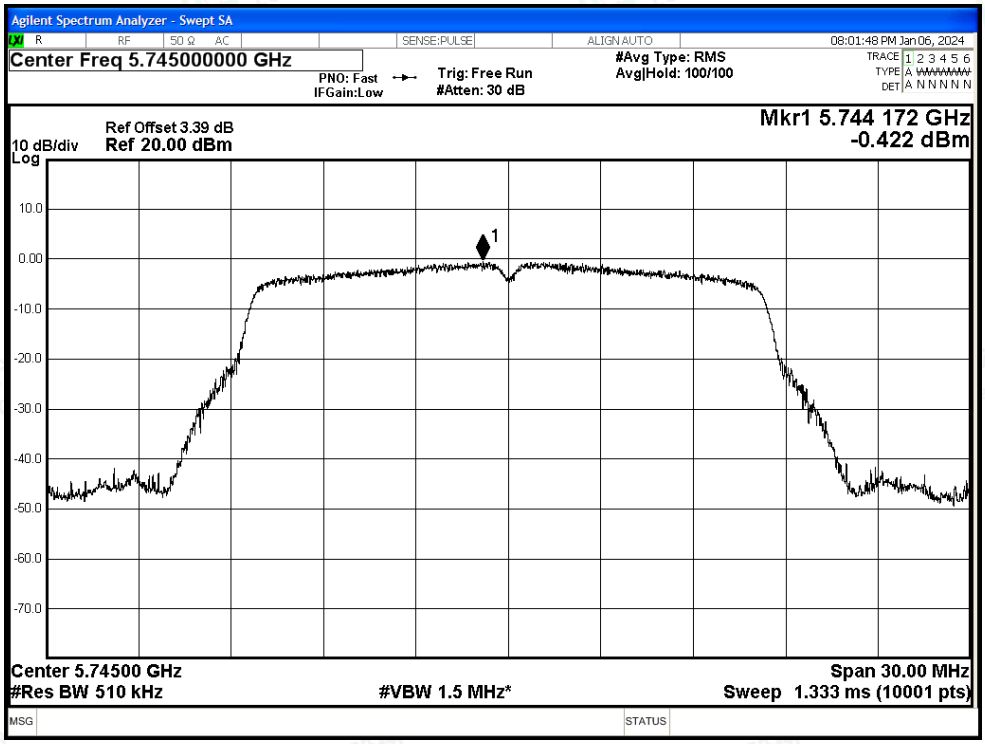


PSD NVNT ac80 5775MHz Ant2

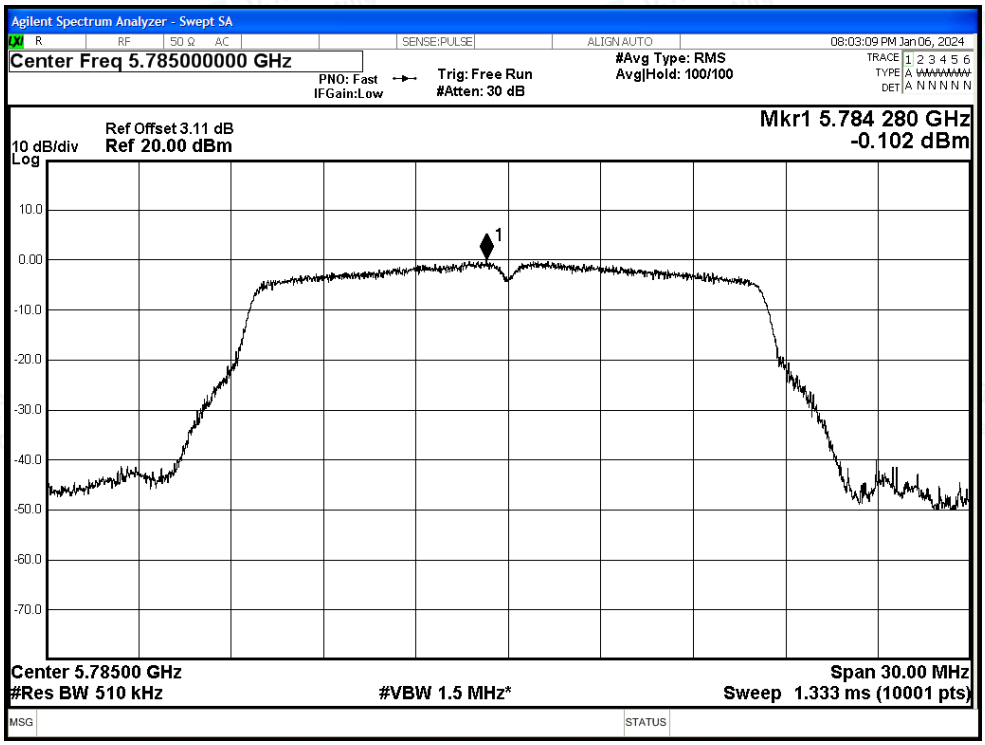


Test Graphs

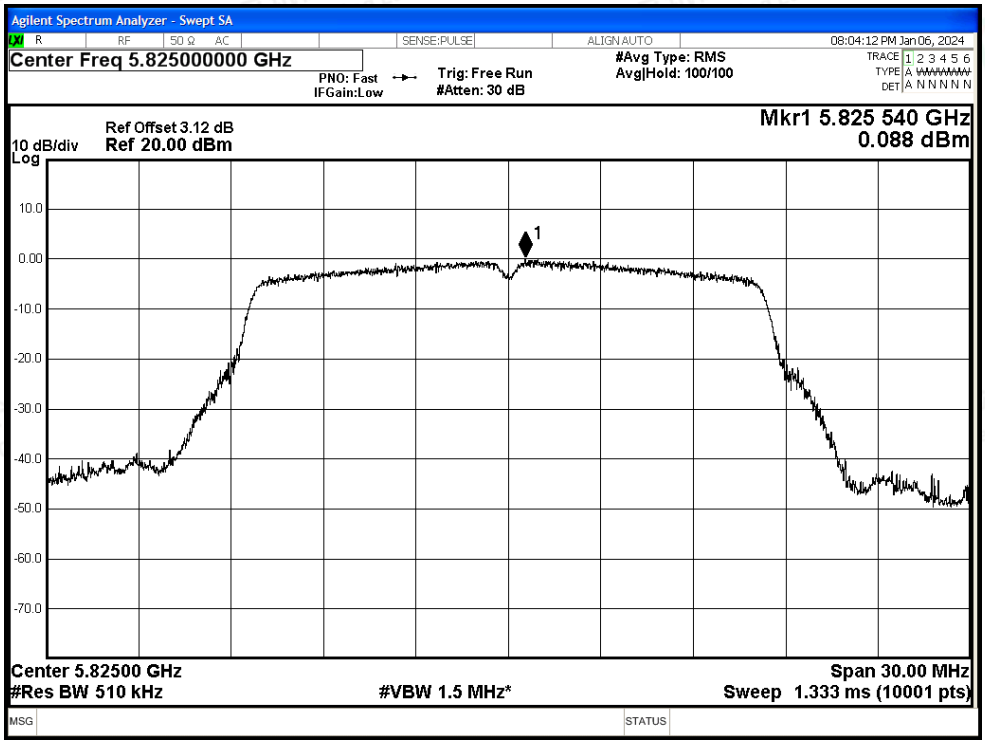
PSD NVNT a 5745MHz Ant3



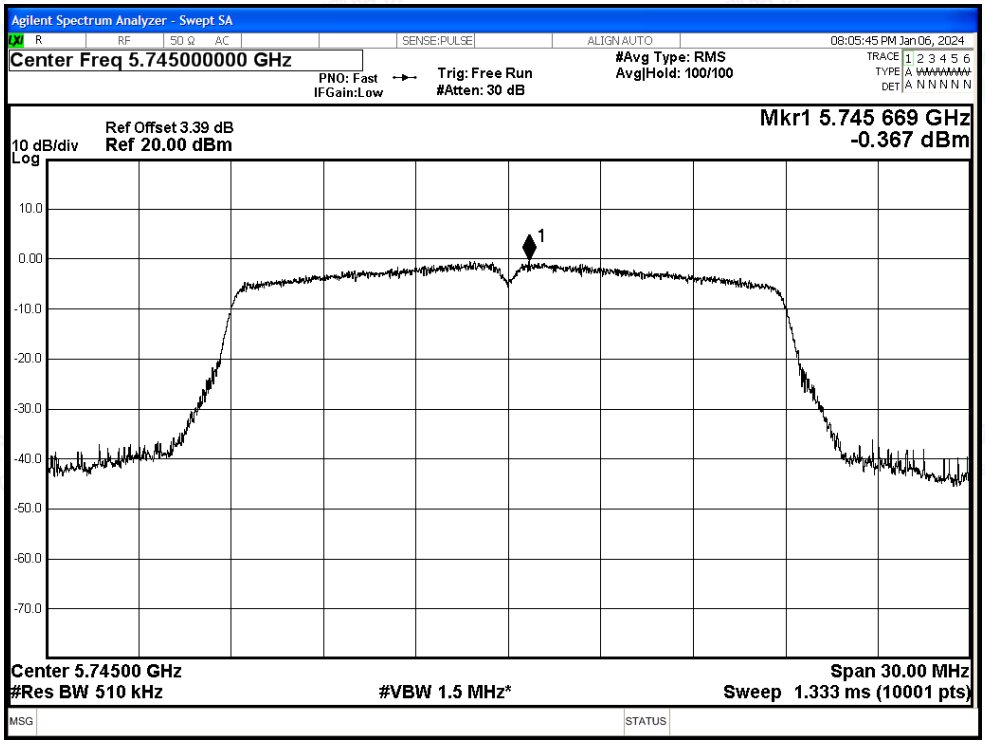
PSD NVNT a 5785MHz Ant3



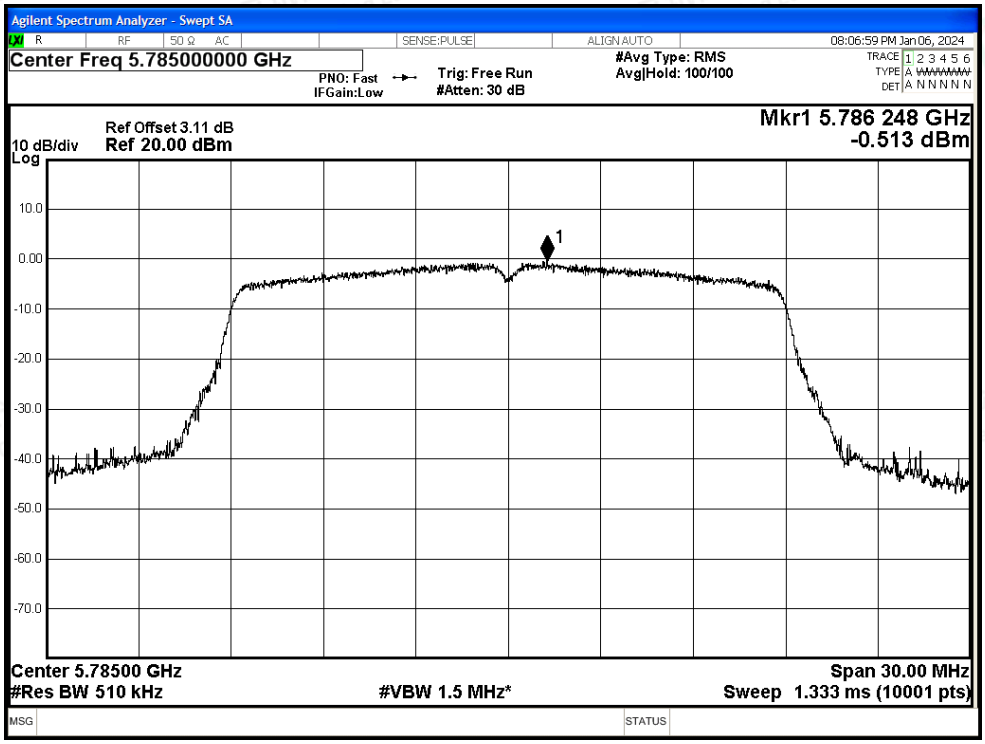
PSD NVNT a 5825MHz Ant3



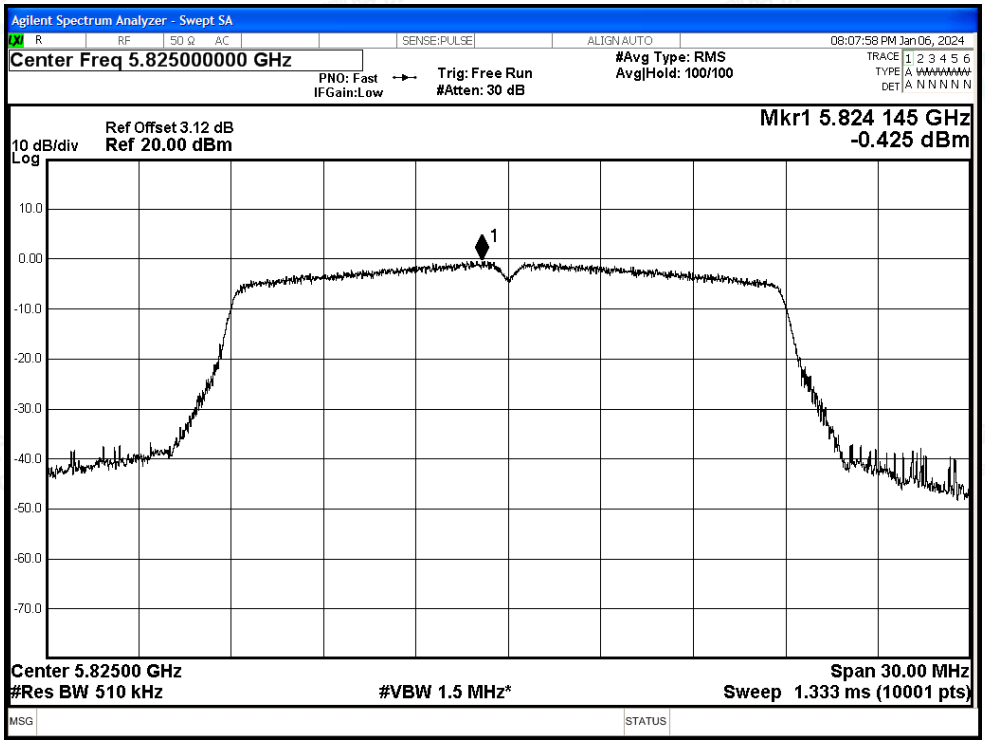
PSD NVNT n20 5745MHz Ant3



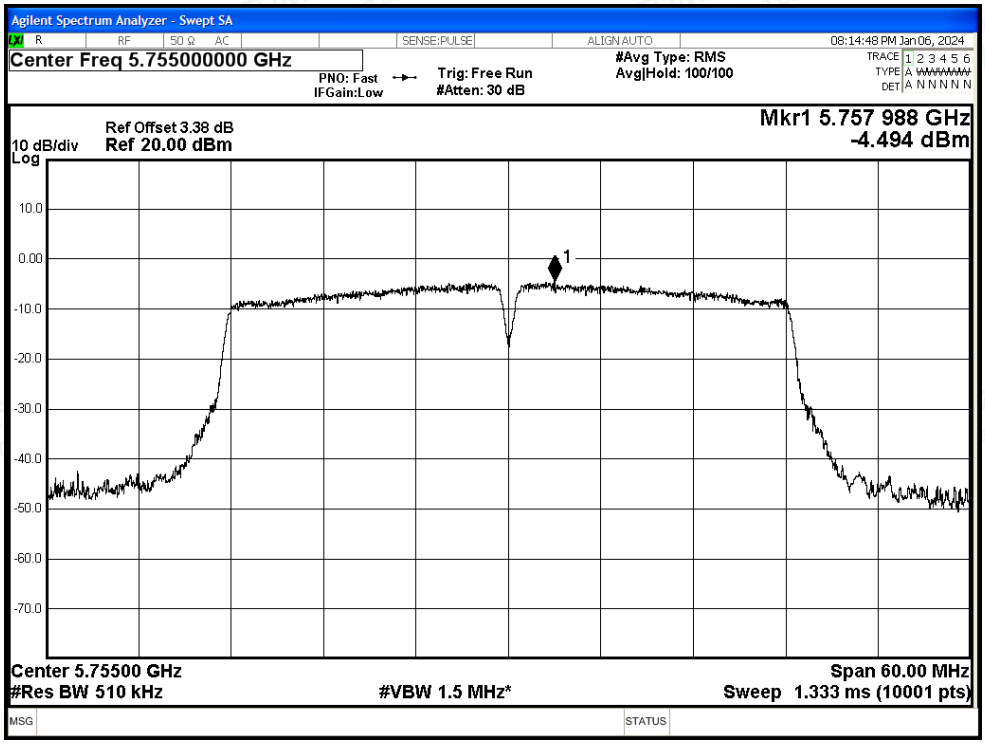
PSD NVNT n20 5785MHz Ant3



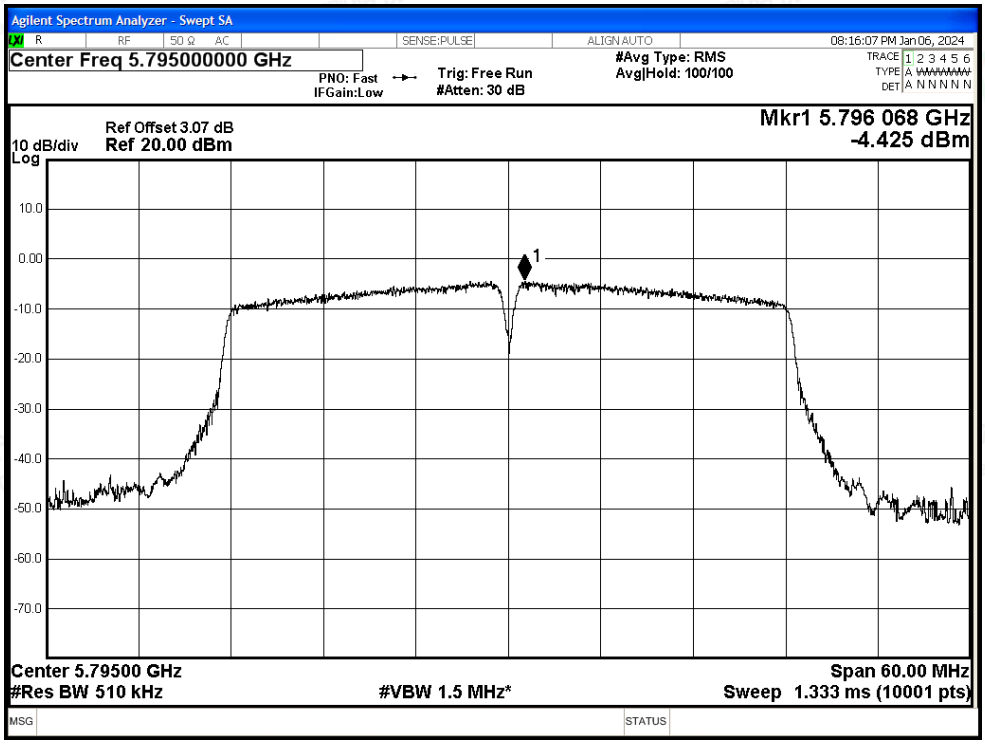
PSD NVNT n20 5825MHz Ant3



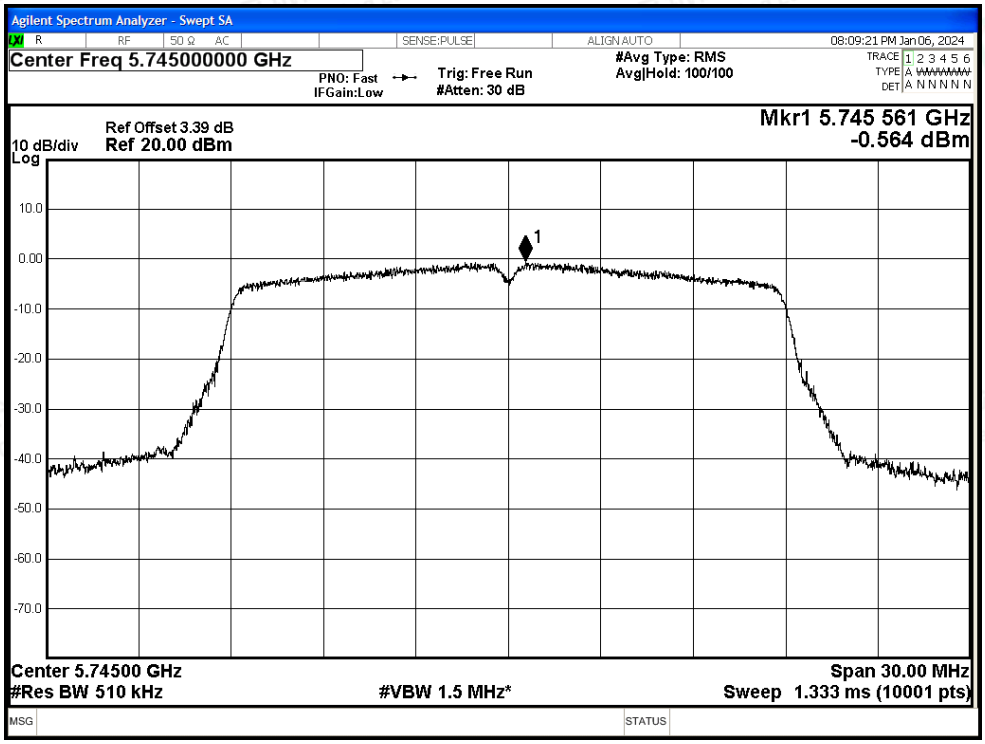
PSD NVNT n40 5755MHz Ant3



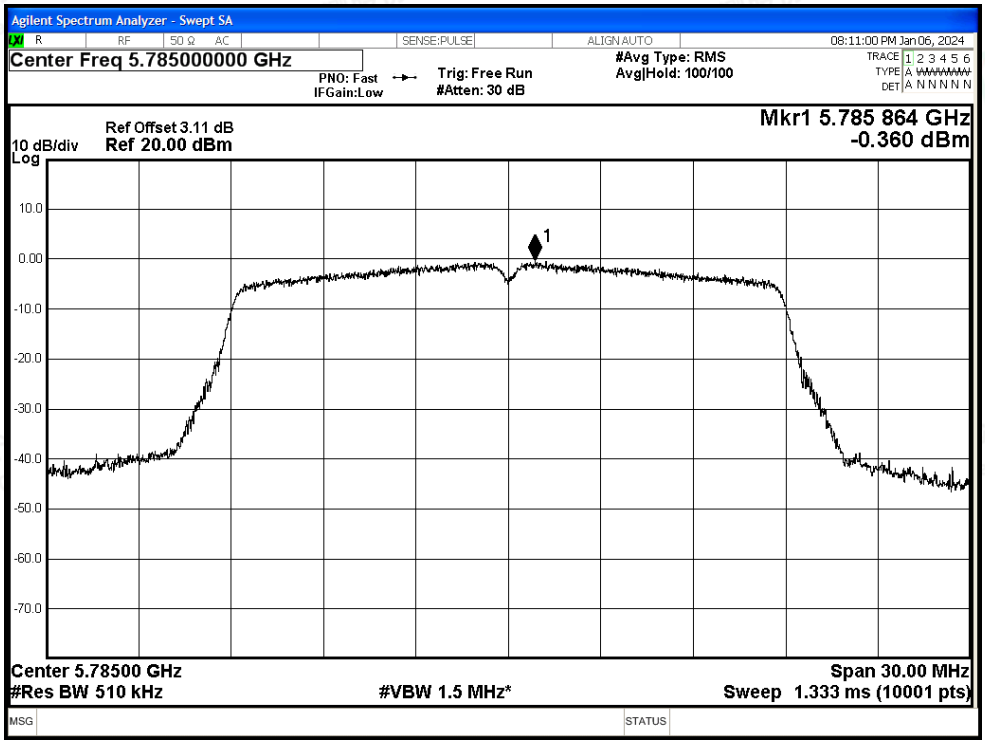
PSD NVNT n40 5795MHz Ant3



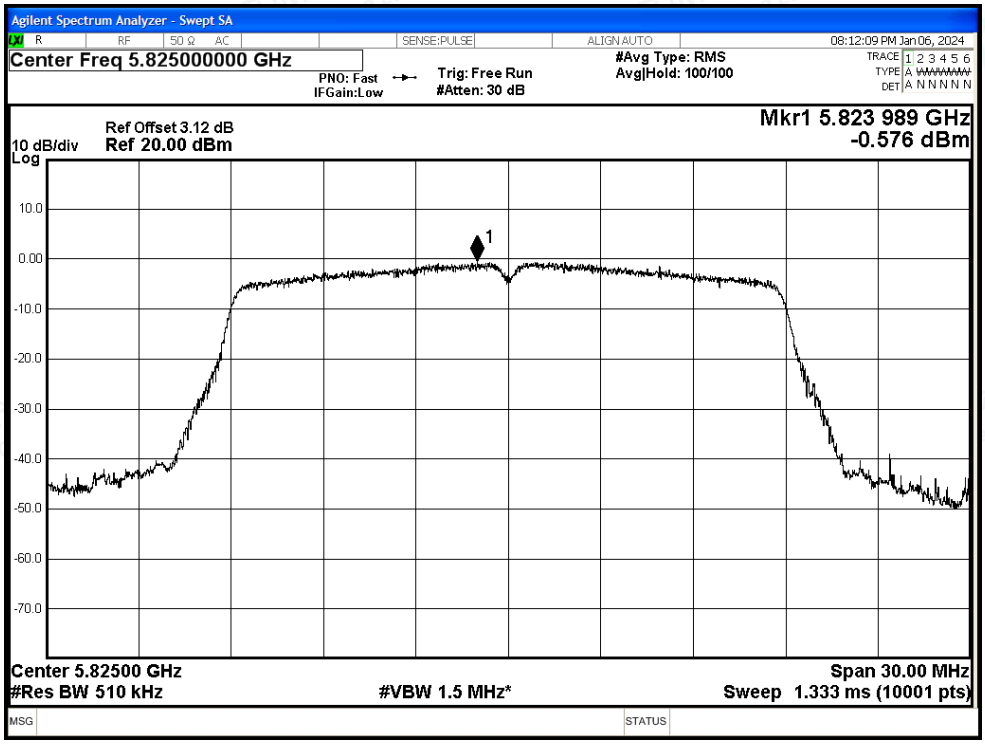
PSD NVNT ac20 5745MHz Ant3



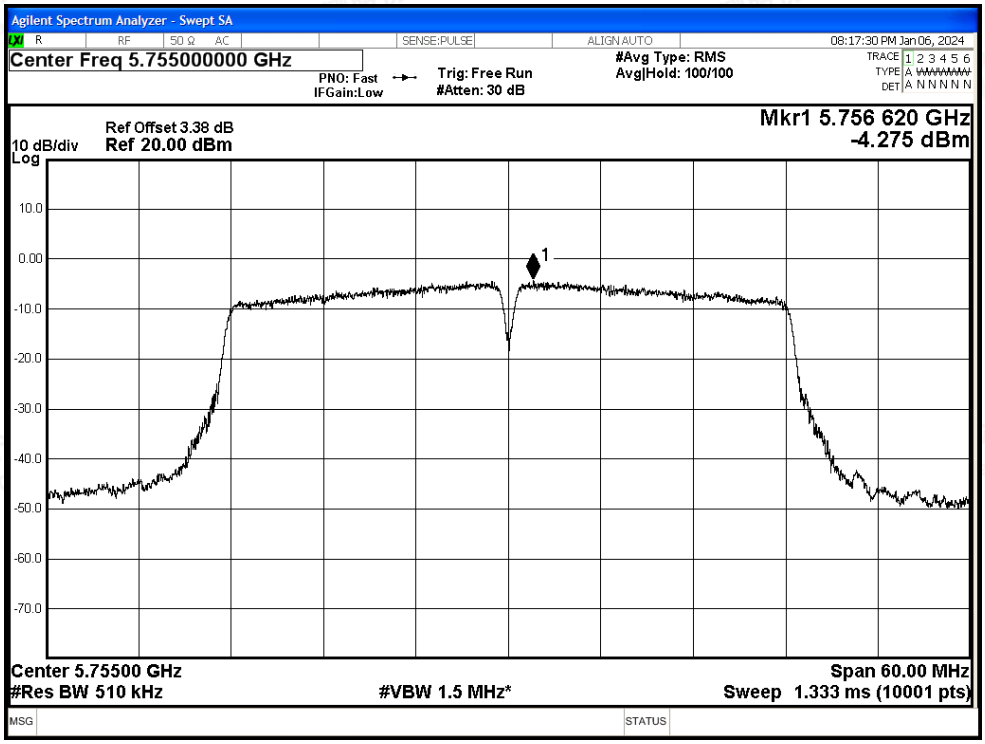
PSD NVNT ac20 5785MHz Ant3



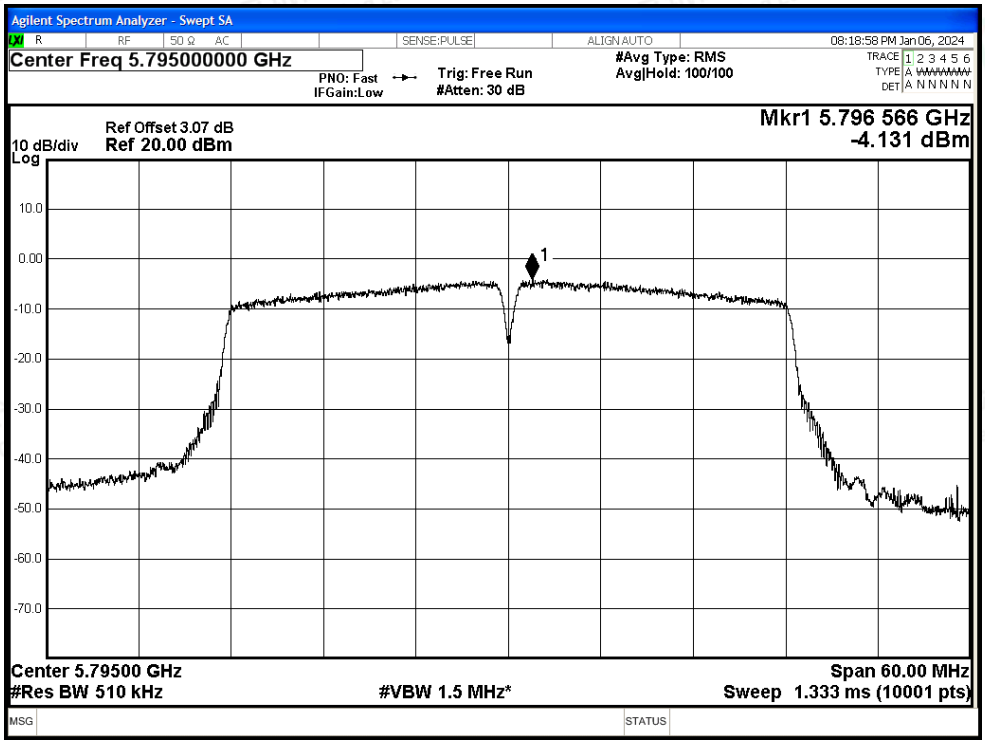
PSD NVNT ac20 5825MHz Ant3



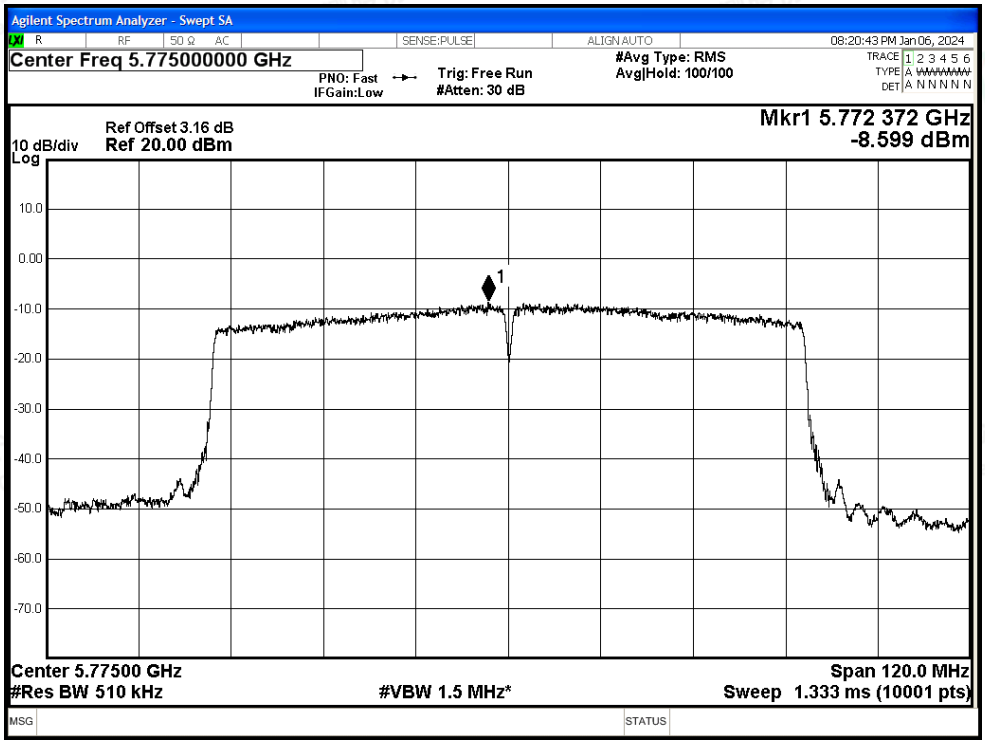
PSD NVNT ac40 5755MHz Ant3



PSD NVNT ac40 5795MHz Ant3

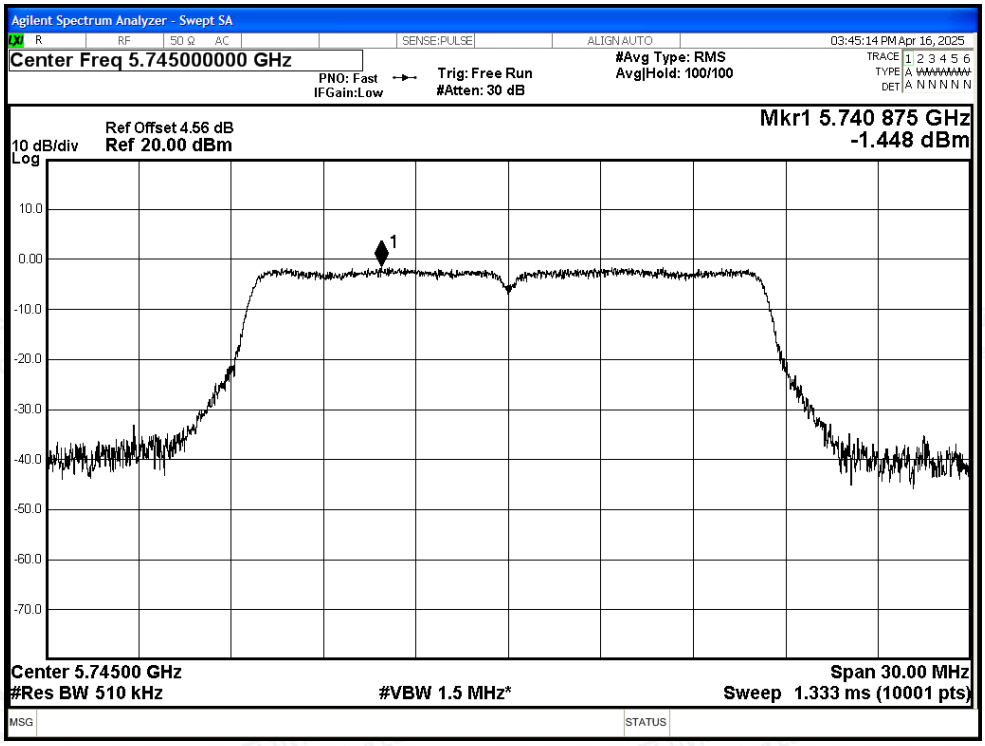


PSD NVNT ac80 5775MHz Ant3

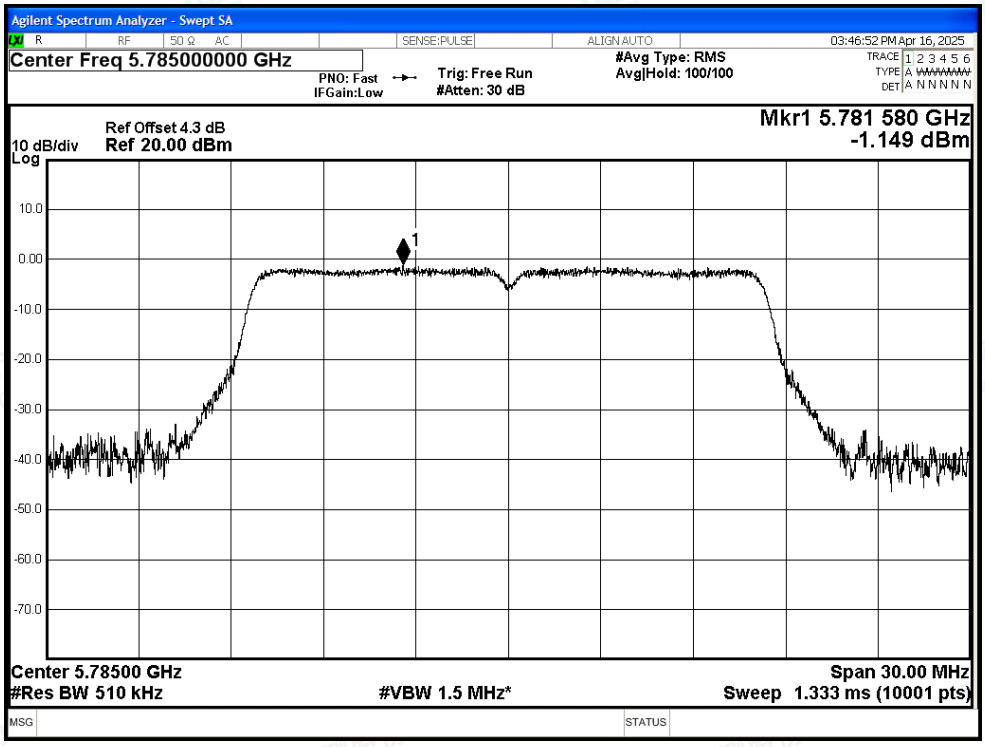


Test Graphs

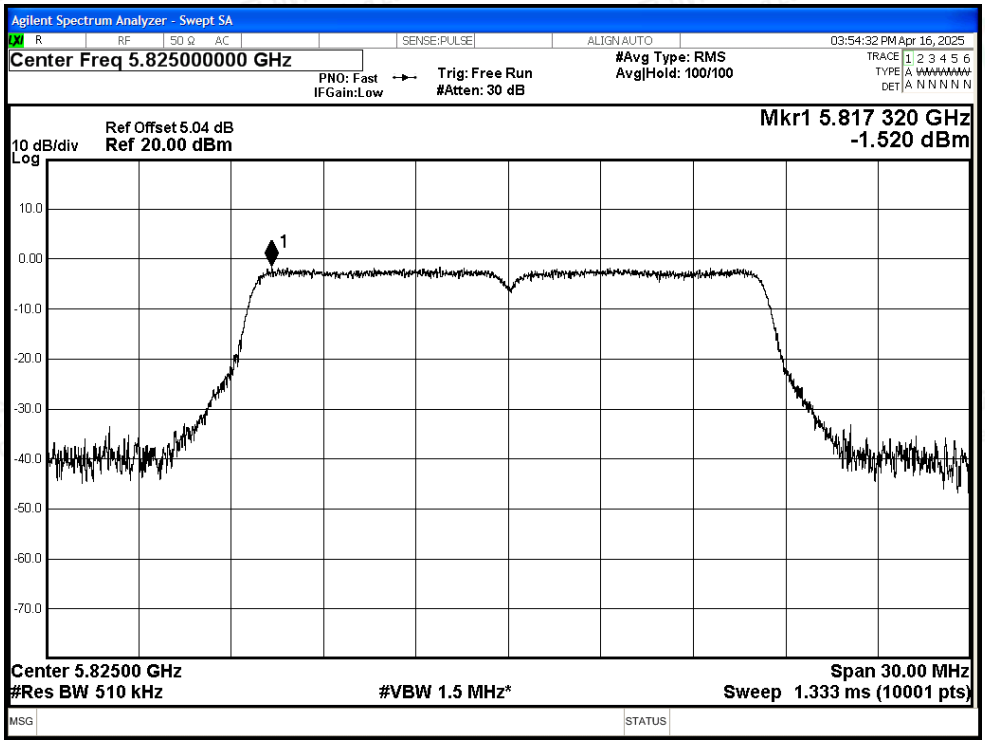
PSD NVNT a 5745MHz Ant1



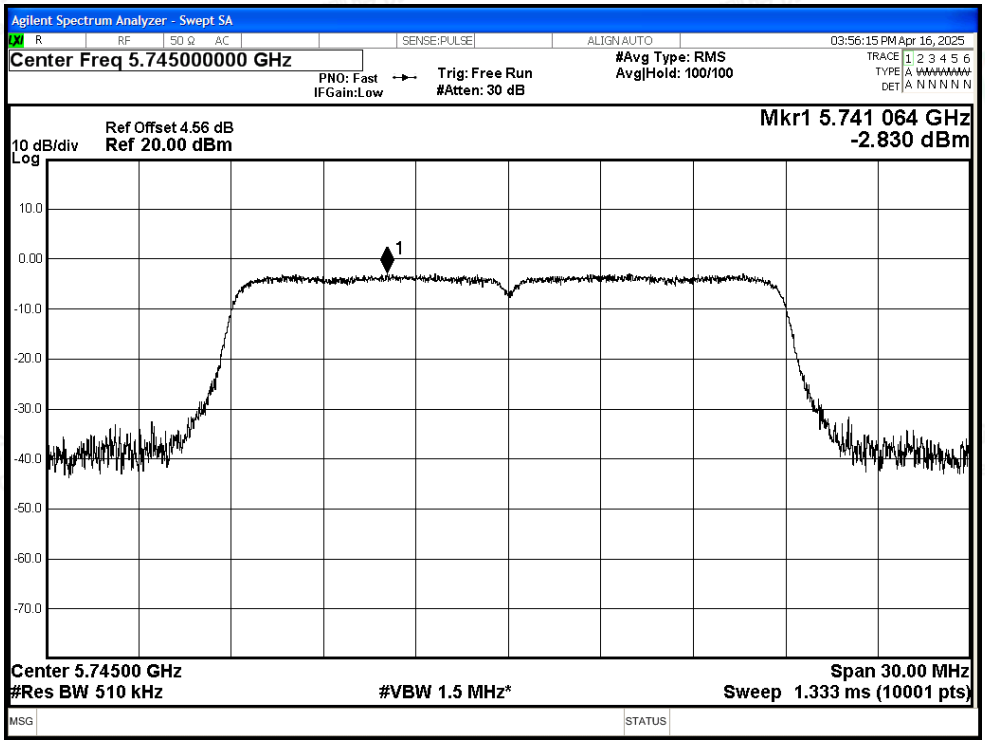
PSD NVNT a 5785MHz Ant1



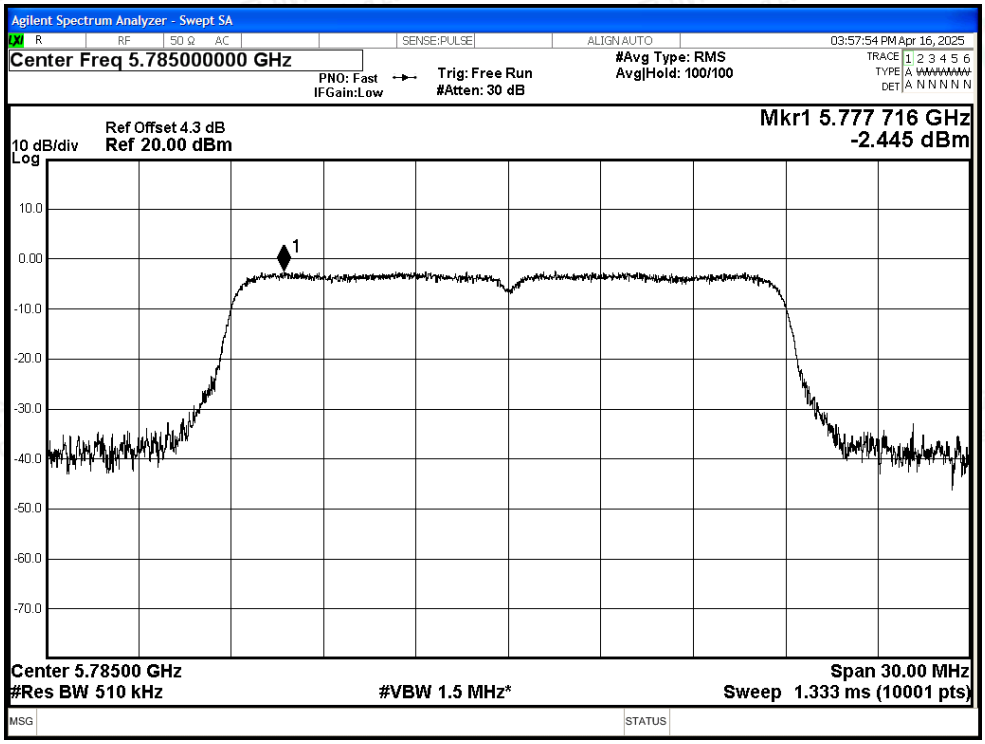
PSD NVNT a 5825MHz Ant1



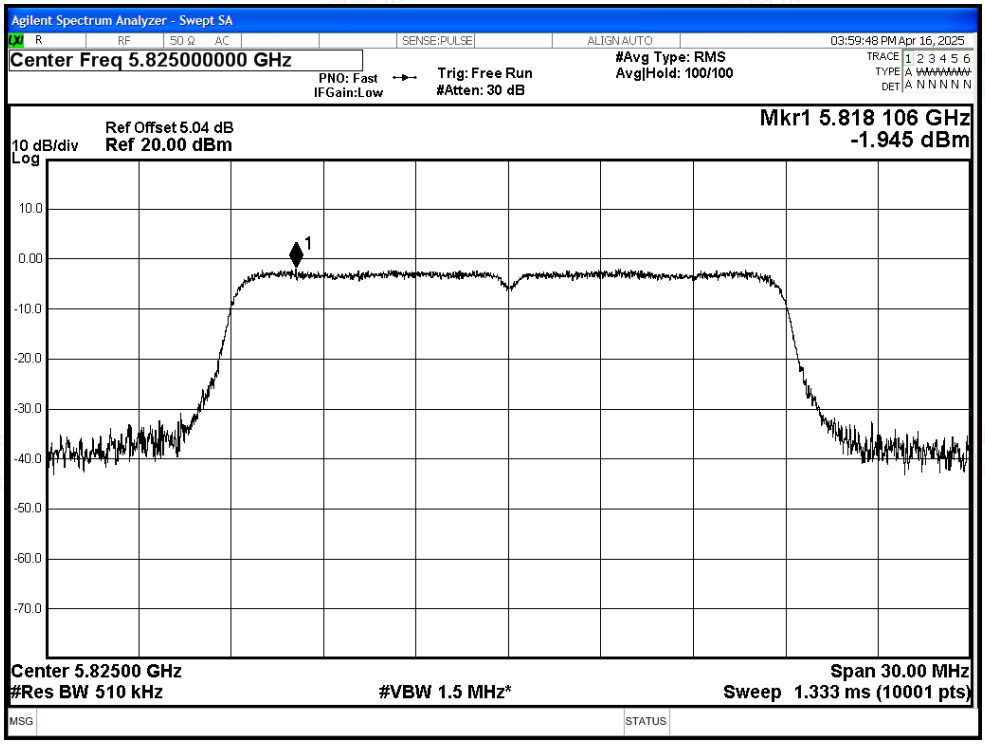
PSD NVNT n20 5745MHz Ant1



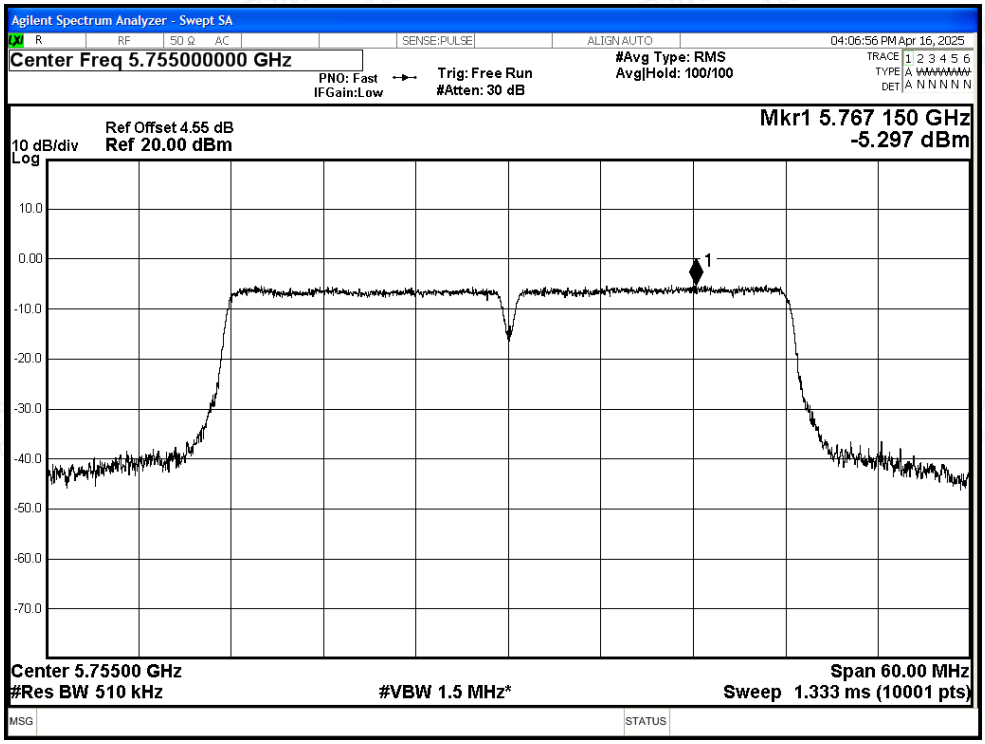
PSD NVNT n20 5785MHz Ant1



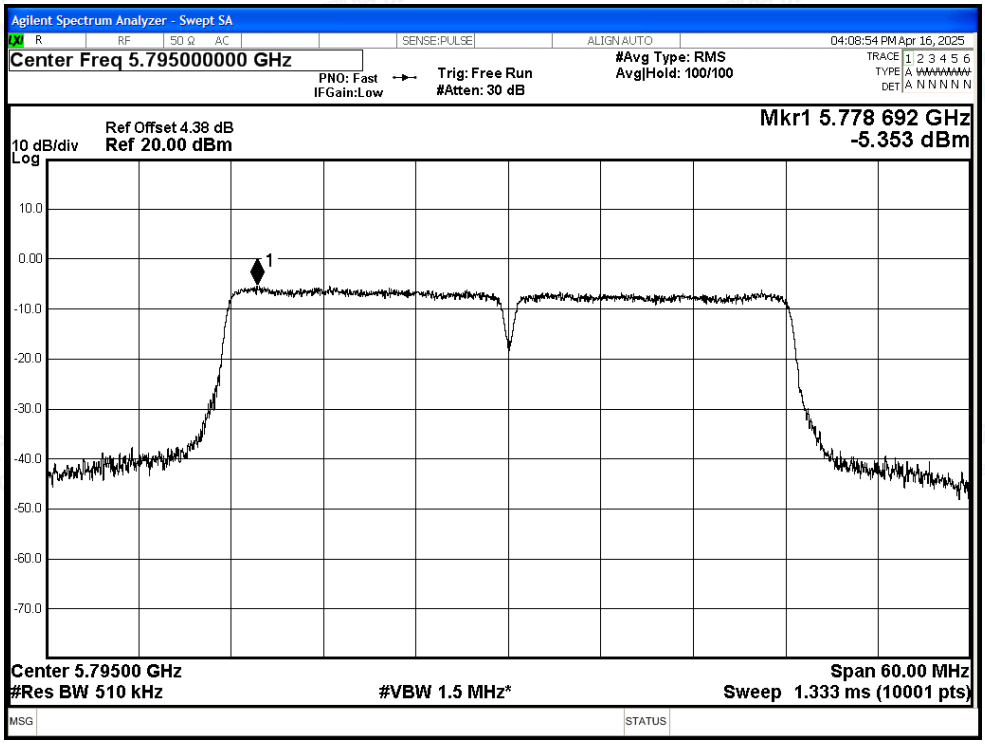
PSD NVNT n20 5825MHz Ant1



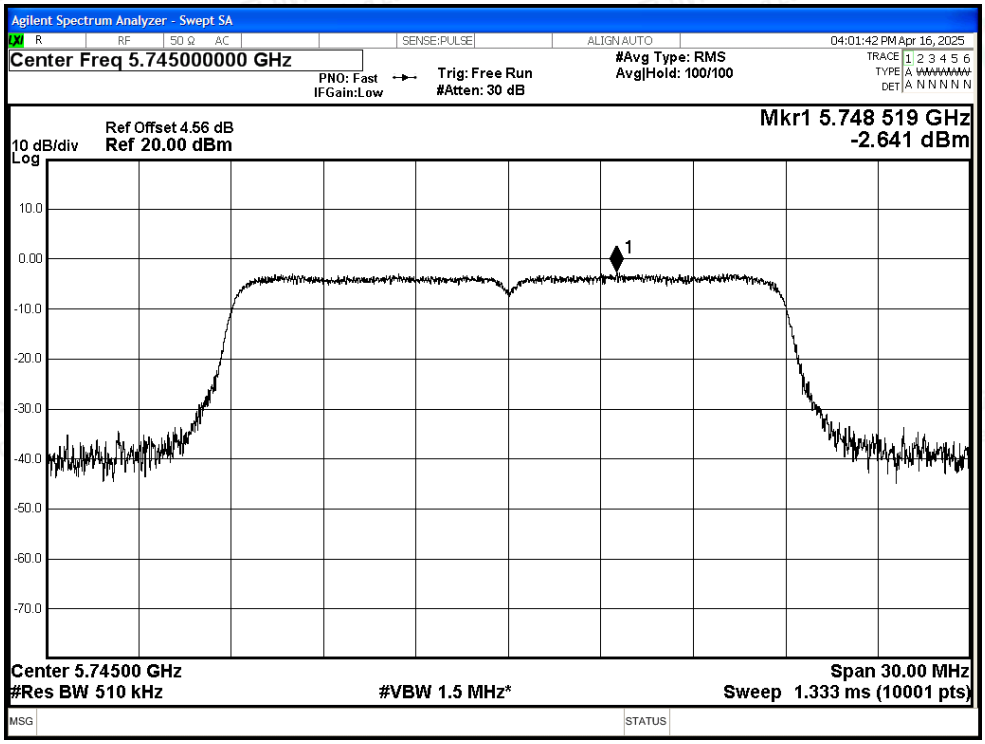
PSD NVNT n40 5755MHz Ant1



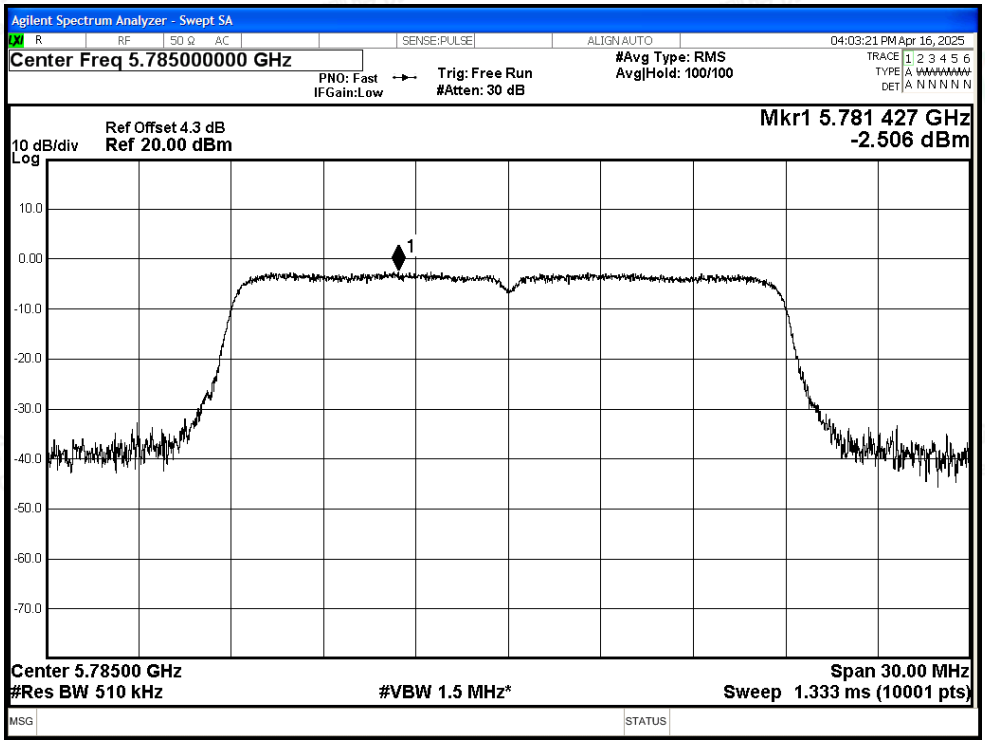
PSD NVNT n40 5795MHz Ant1



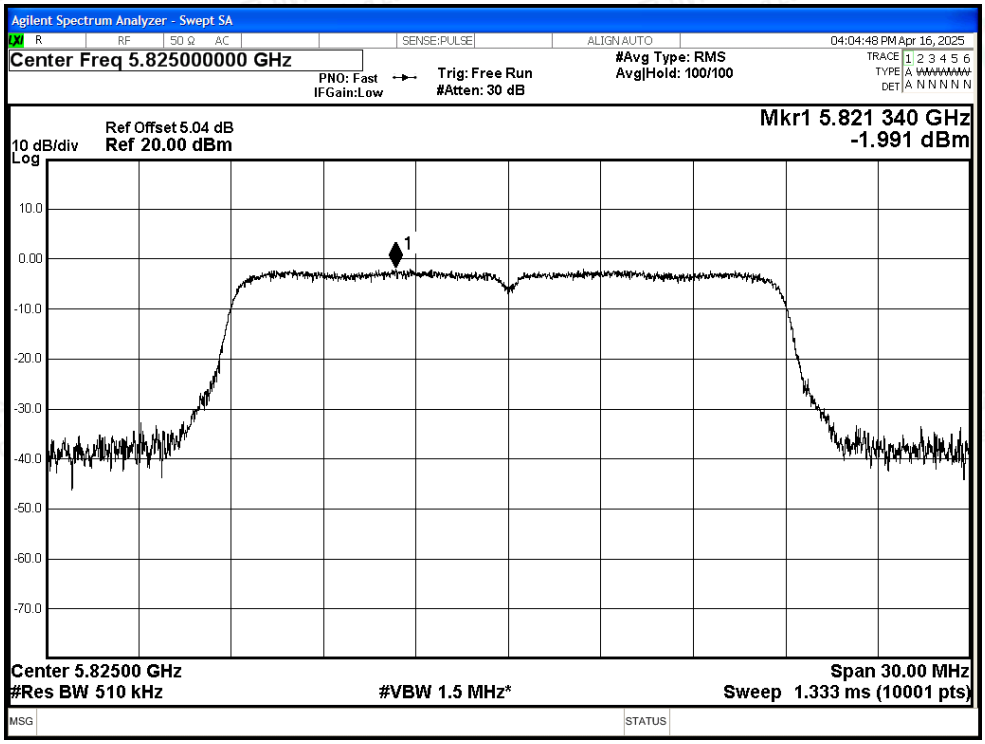
PSD NVNT ac20 5745MHz Ant1



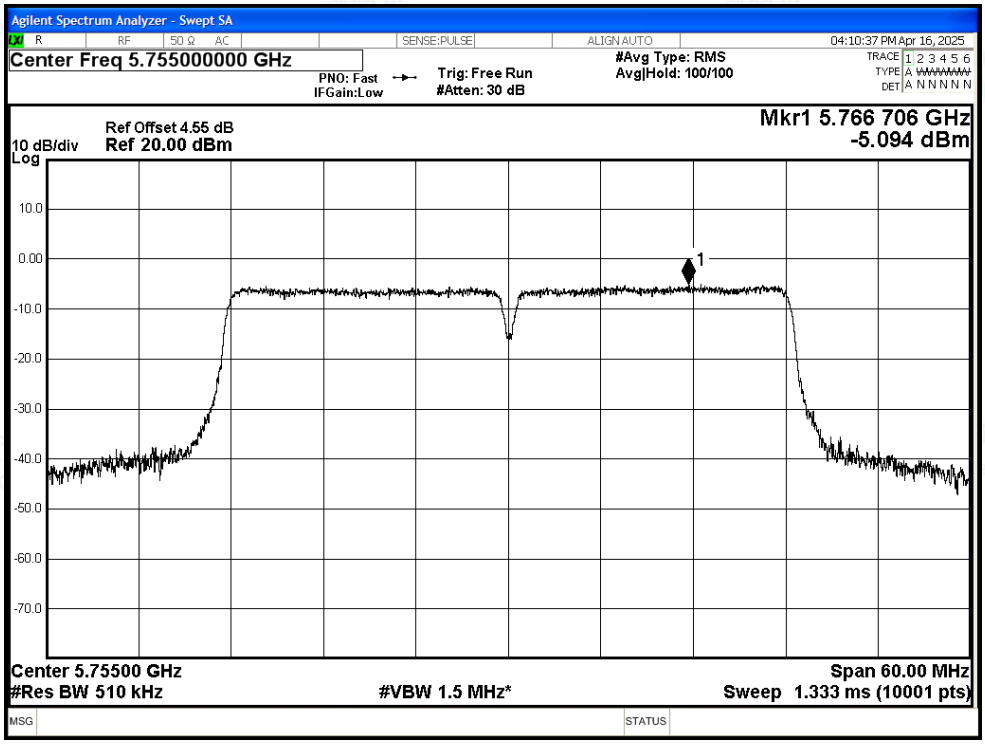
PSD NVNT ac20 5785MHz Ant1



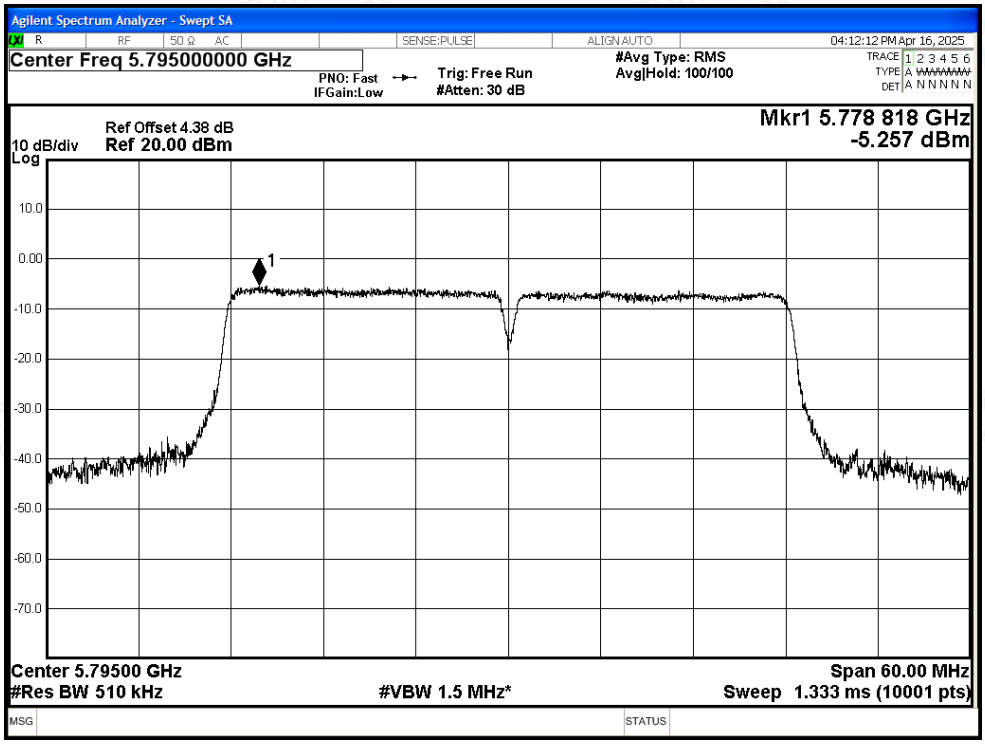
PSD NVNT ac20 5825MHz Ant1



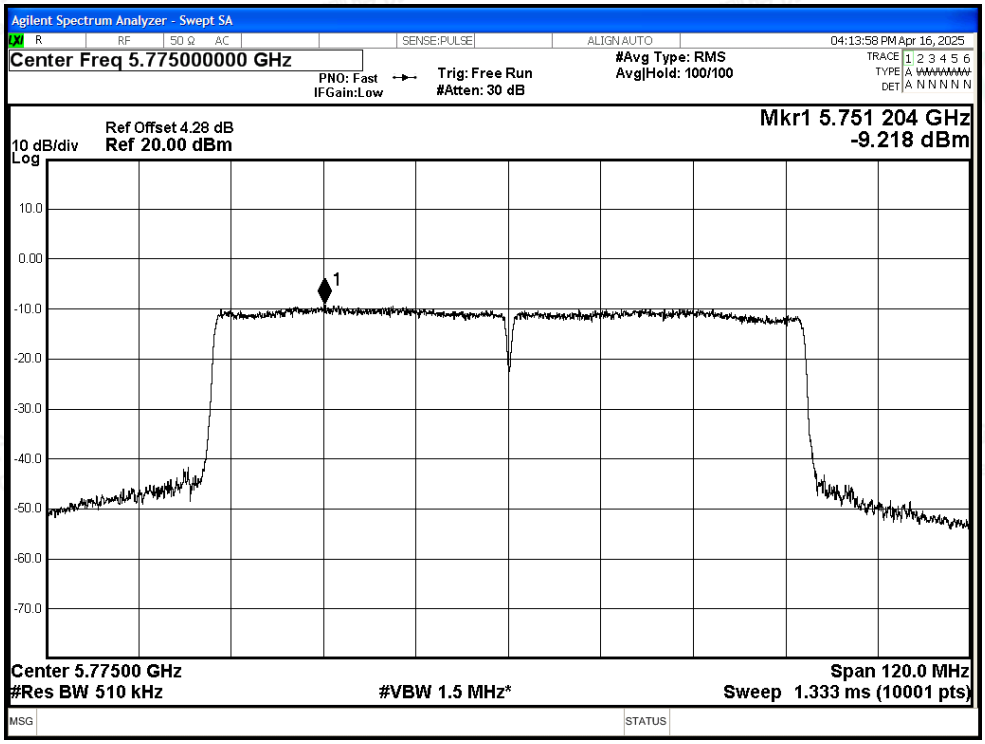
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1

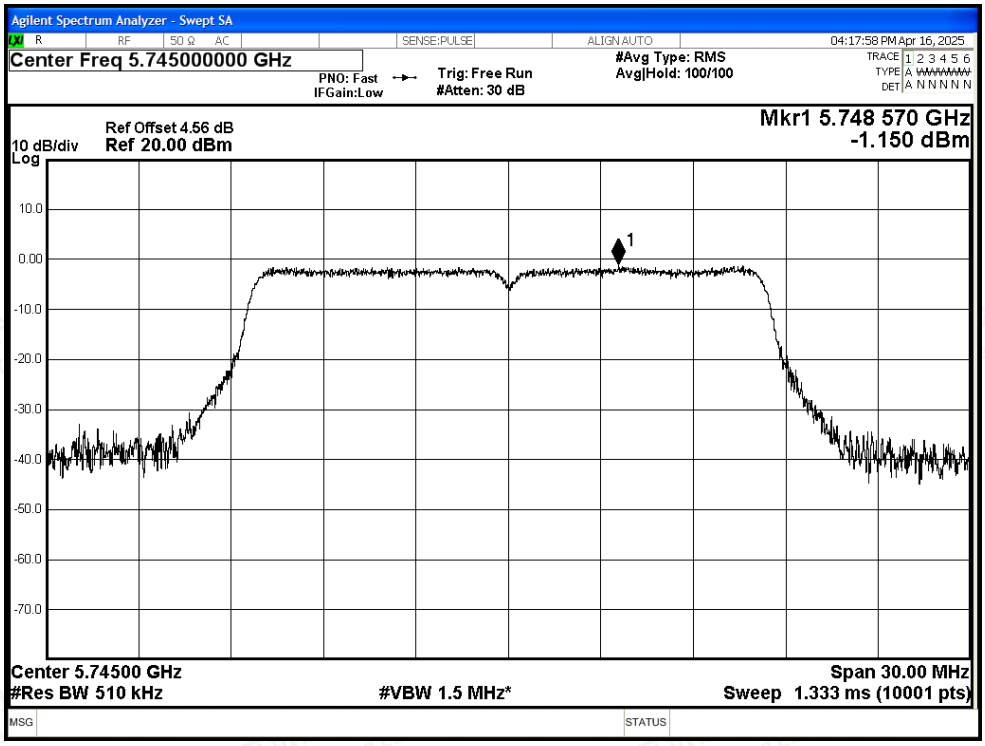


PSD NVNT ac80 5775MHz Ant1

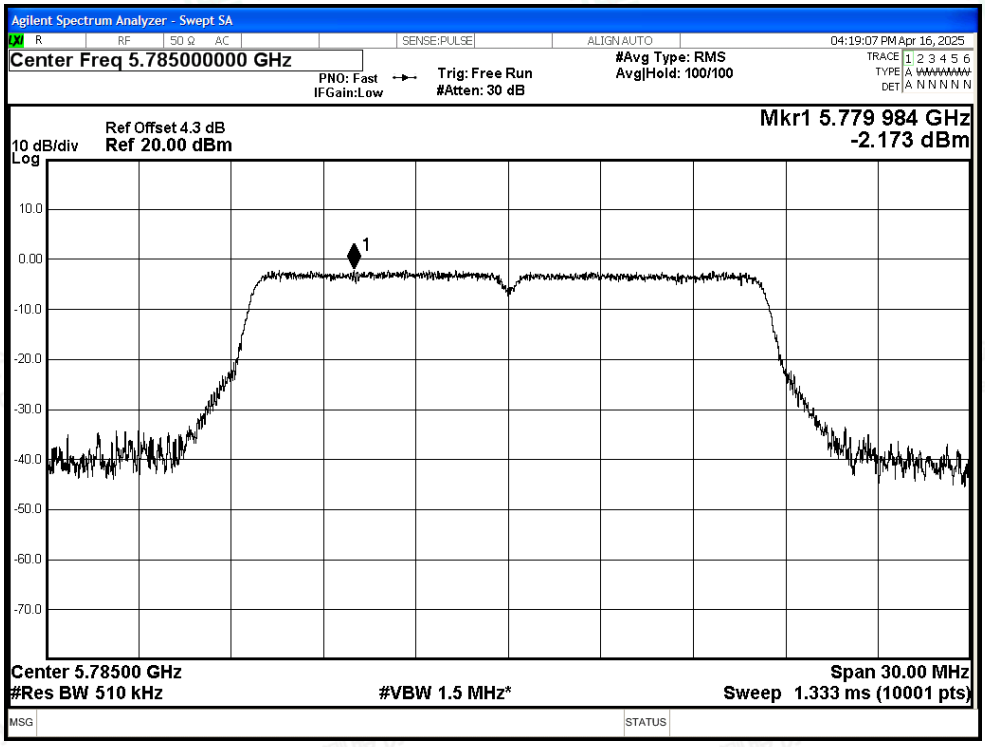


Test Graphs

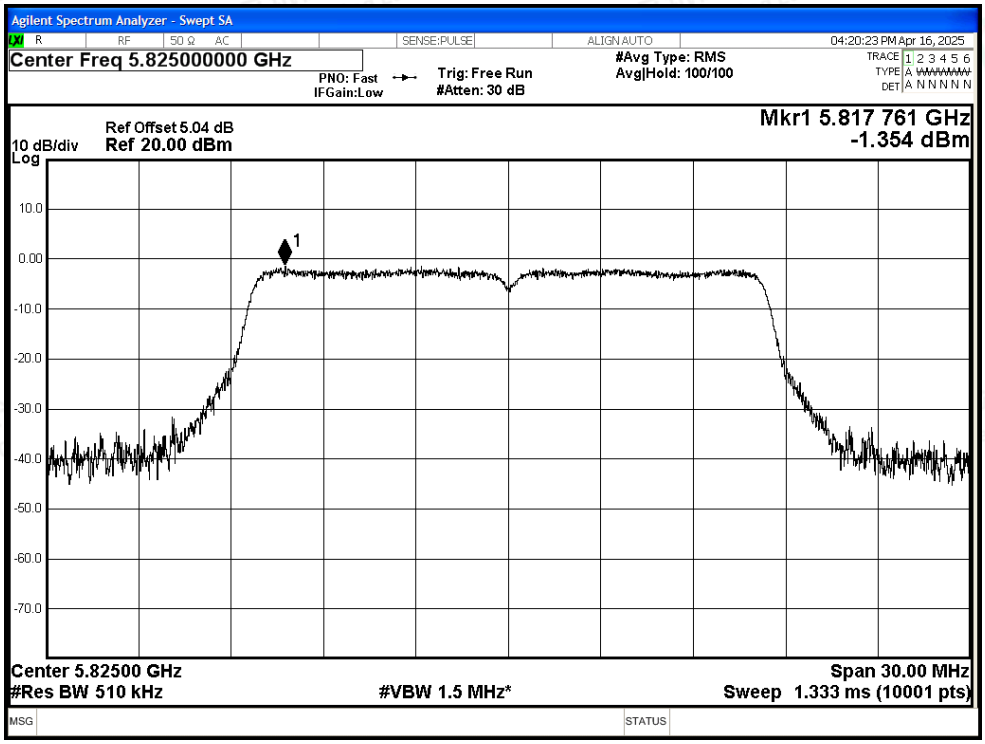
PSD NVNT a 5745MHz Ant2



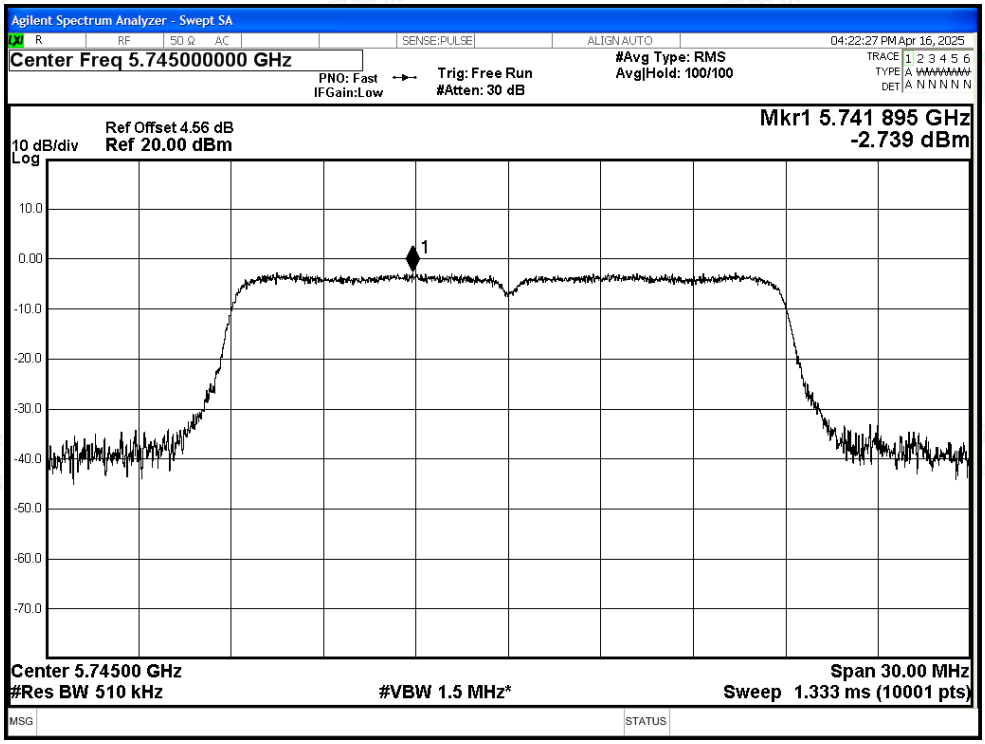
PSD NVNT a 5785MHz Ant2



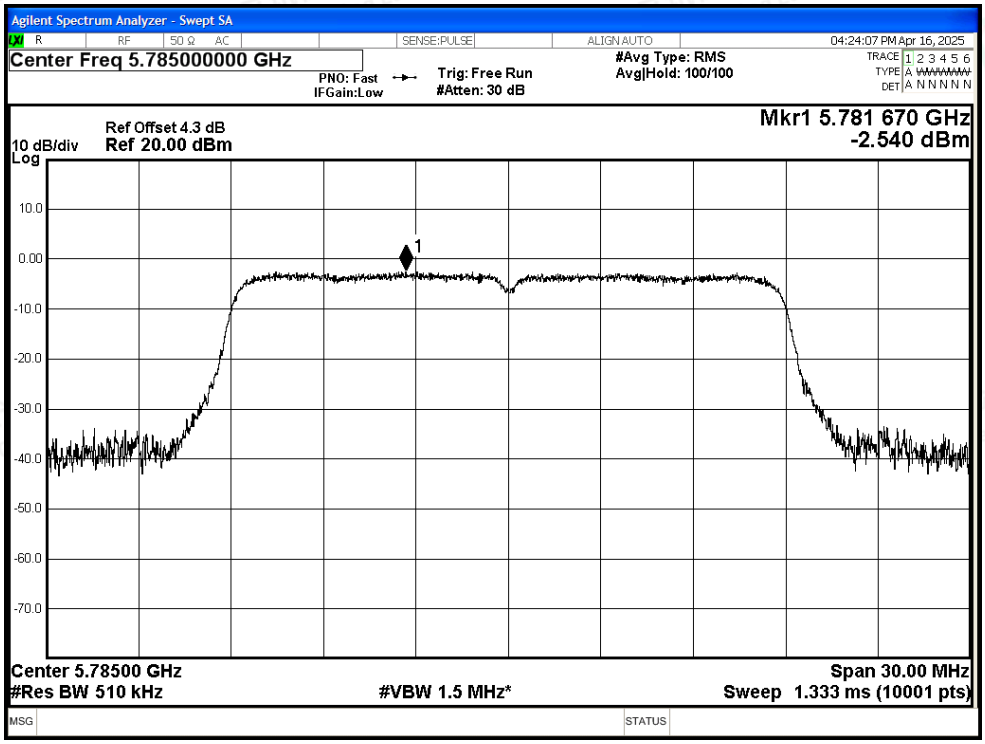
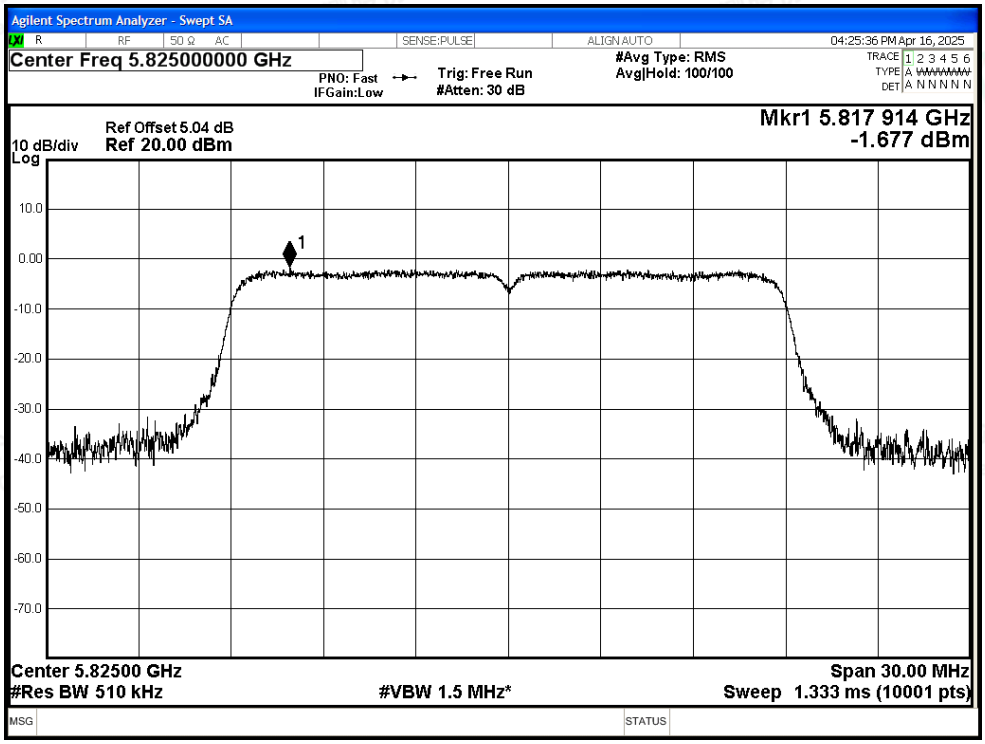
PSD NVNT a 5825MHz Ant2



PSD NVNT n20 5745MHz Ant2



PSD NVNT n20 5785MHz Ant2



PSD NVNT n20 5825MHz Ant2