



## Appendix E

### RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Set top box

Test Model: BOXY

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





### E.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	14.429	>=0.5	Pass
NVNT	a	5785	Ant0	15.713	>=0.5	Pass
NVNT	a	5825	Ant0	15.699	>=0.5	Pass
NVNT	n20	5745	Ant0	16.284	>=0.5	Pass
NVNT	n20	5785	Ant0	15.407	>=0.5	Pass
NVNT	n20	5825	Ant0	15.641	>=0.5	Pass
NVNT	n40	5755	Ant0	27.583	>=0.5	Pass
NVNT	n40	5795	Ant0	27.544	>=0.5	Pass
NVNT	ac20	5745	Ant0	16.281	>=0.5	Pass
NVNT	ac20	5785	Ant0	16.909	>=0.5	Pass
NVNT	ac20	5825	Ant0	15.466	>=0.5	Pass
NVNT	ac40	5755	Ant0	31.349	>=0.5	Pass
NVNT	ac40	5795	Ant0	27.49	>=0.5	Pass
NVNT	ac80	5775	Ant0	62.588	>=0.5	Pass

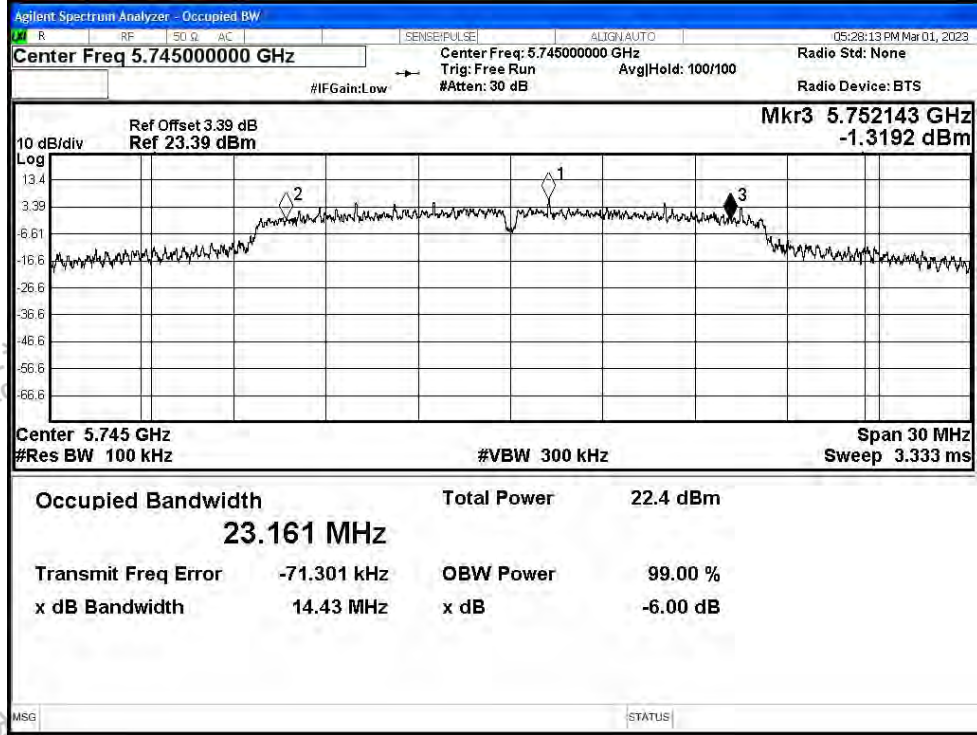


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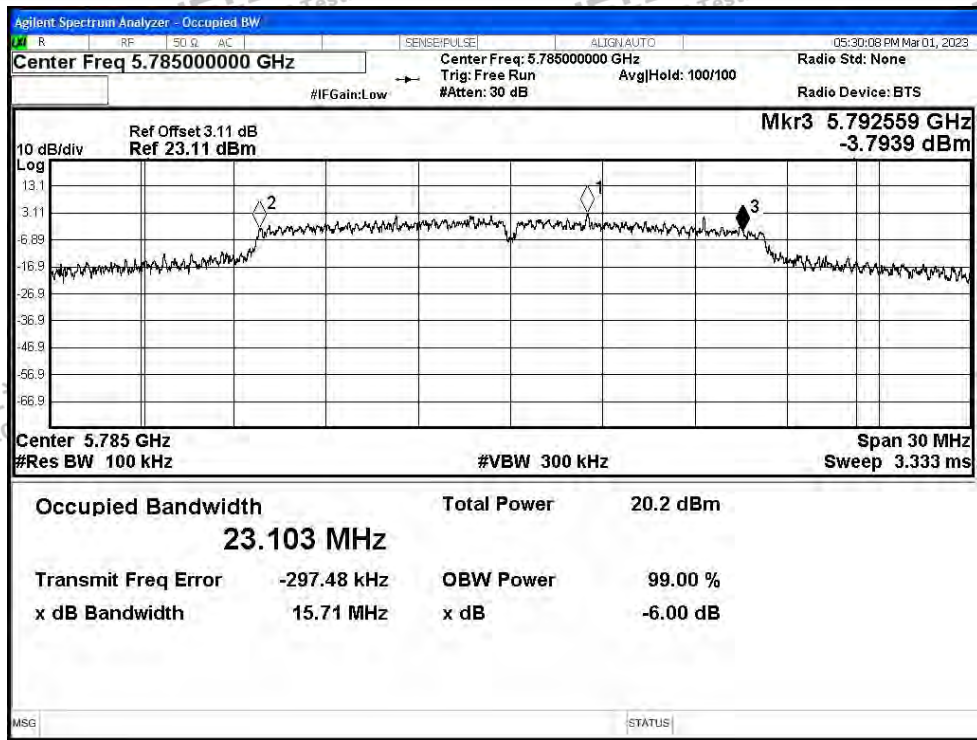


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant0

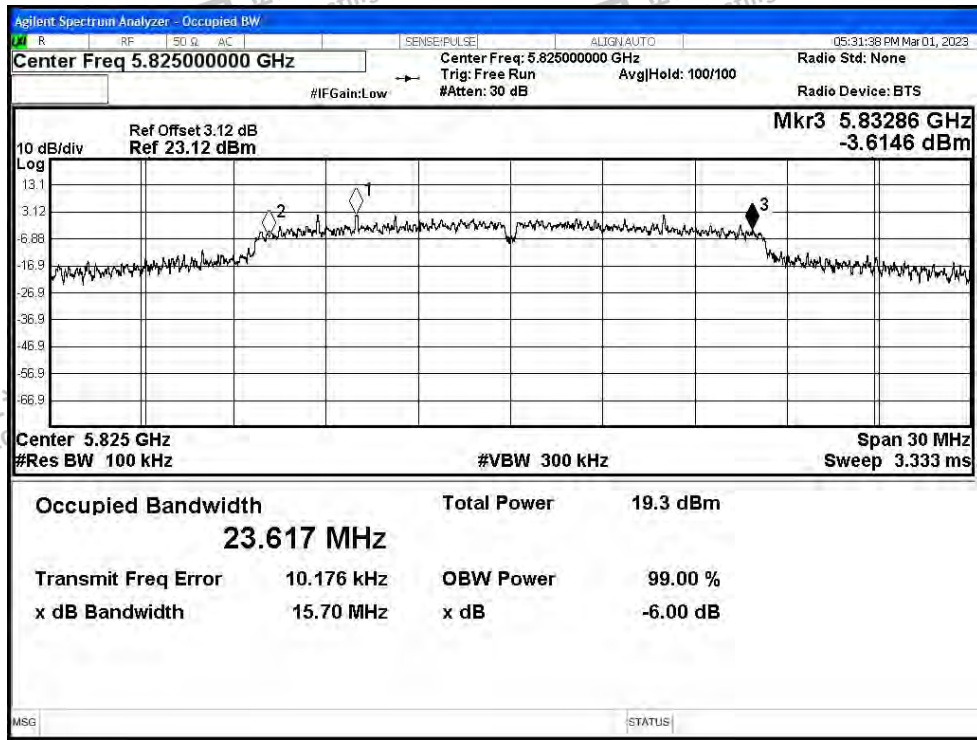


-6dB Bandwidth NVNT a 5785MHz Ant0

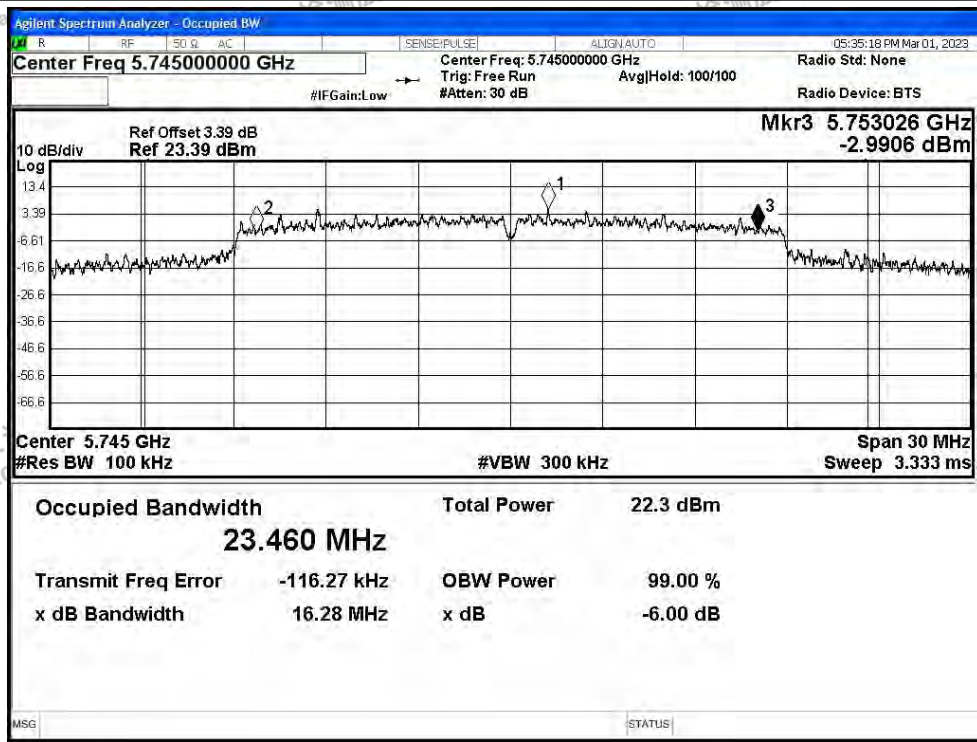




-6dB Bandwidth NVNT a 5825MHz Ant0



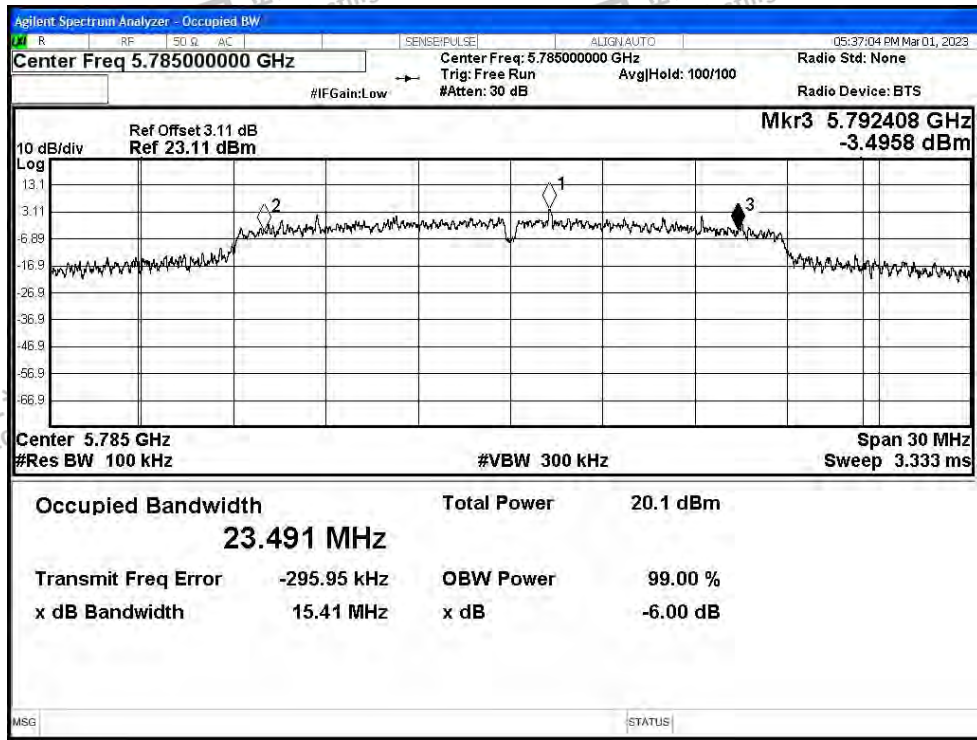
-6dB Bandwidth NVNT n20 5745MHz Ant0



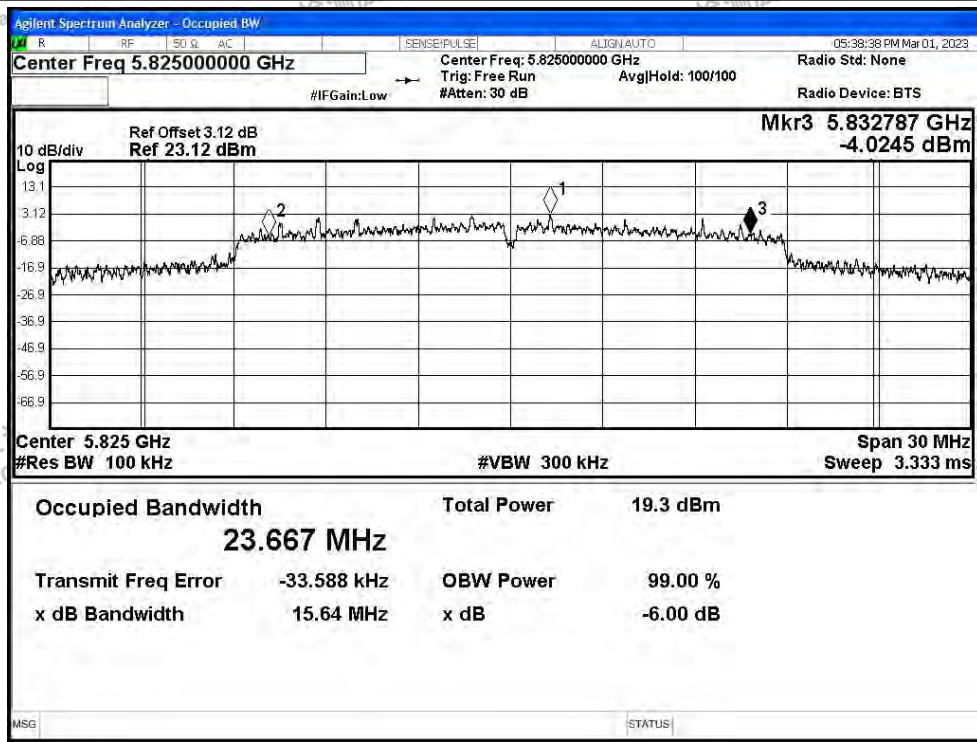




-6dB Bandwidth NVNT n20 5785MHz Ant0

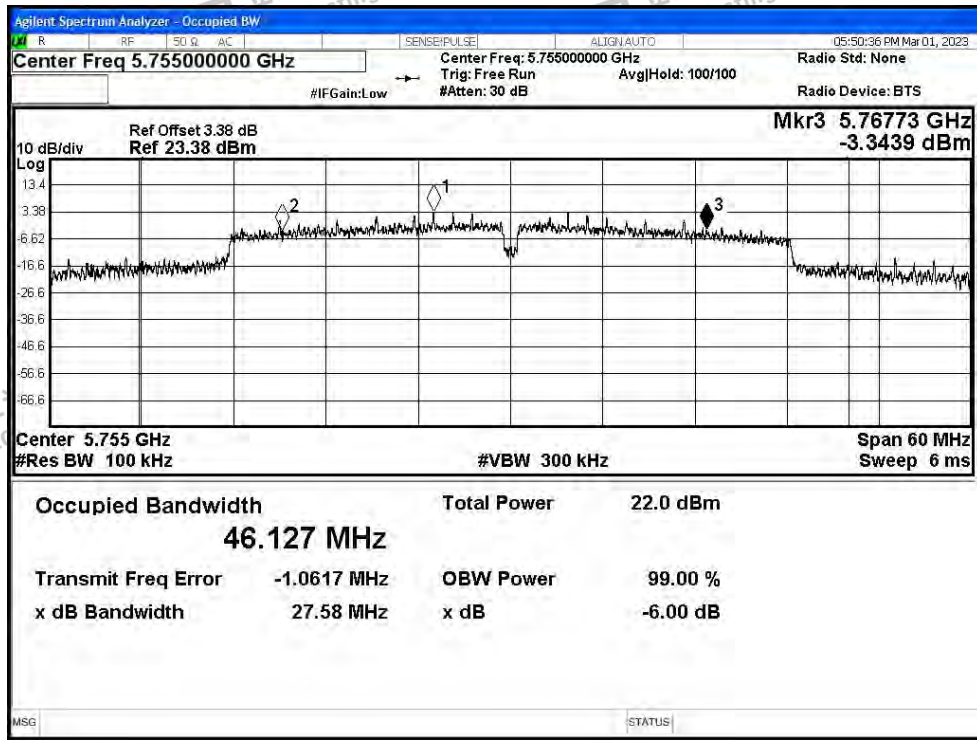


-6dB Bandwidth NVNT n20 5825MHz Ant0

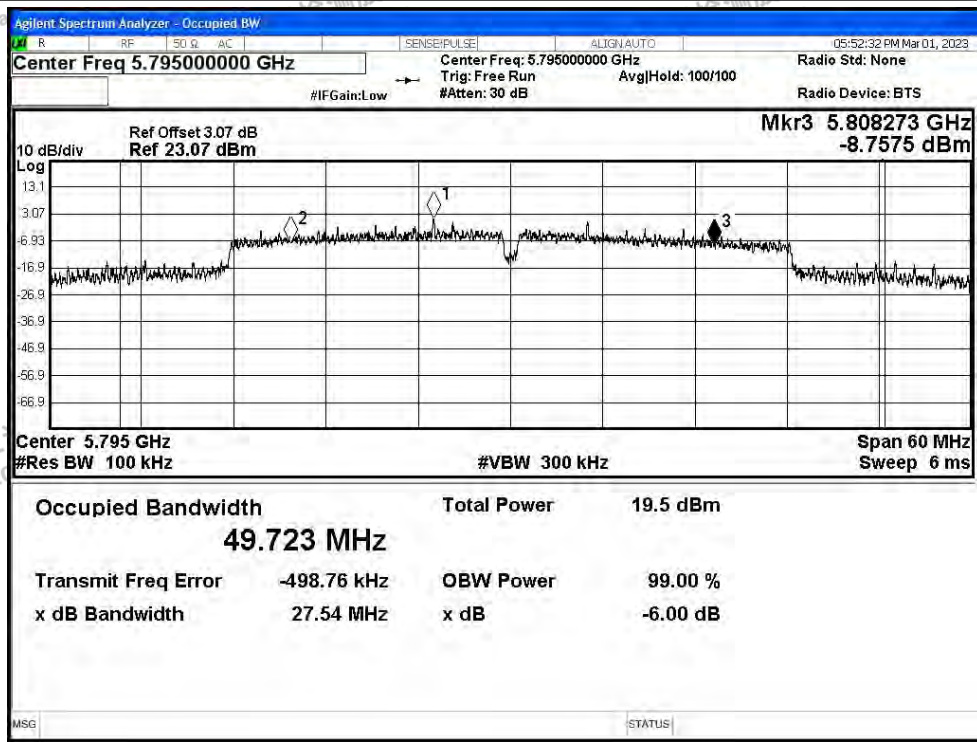




-6dB Bandwidth NVNT n40 5755MHz Ant0

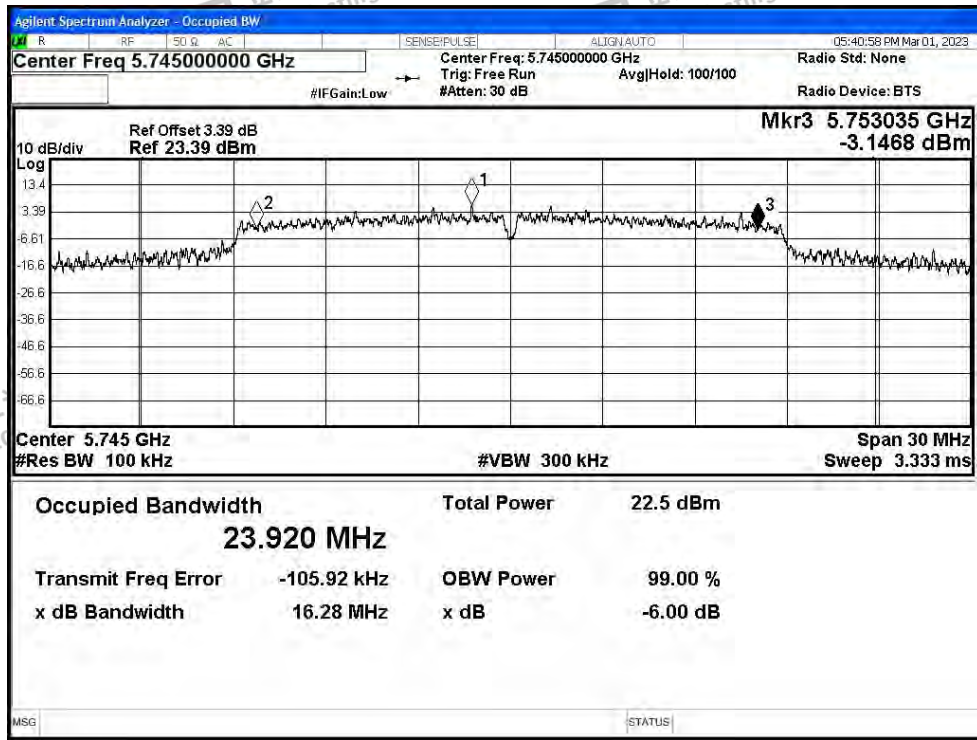


-6dB Bandwidth NVNT n40 5795MHz Ant0

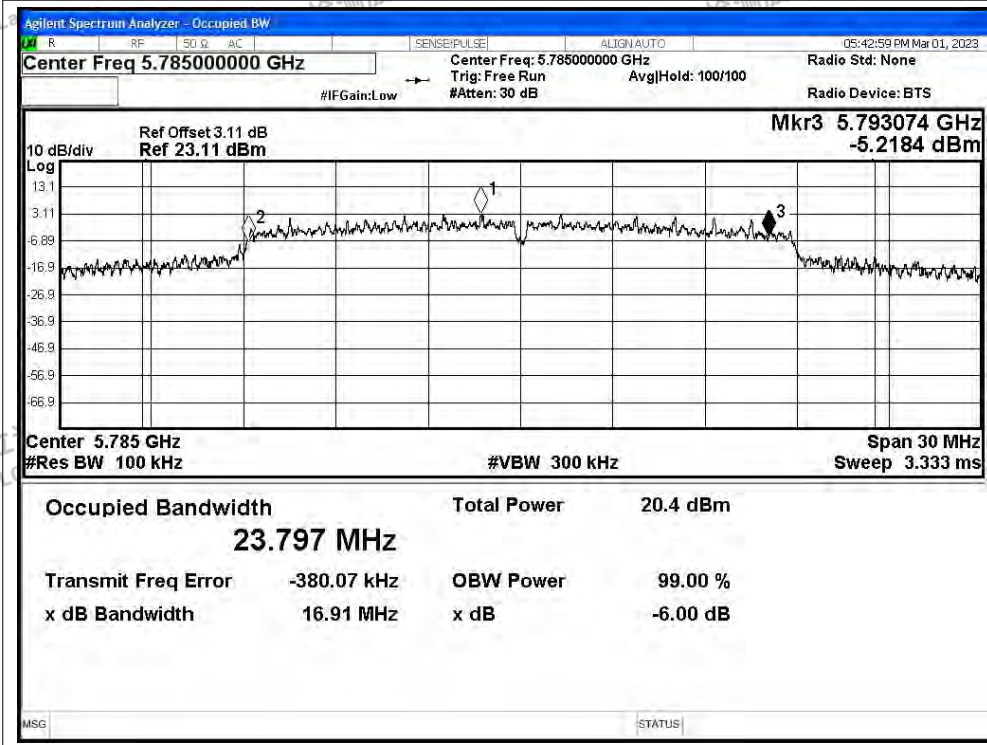




-6dB Bandwidth NVNT ac20 5745MHz Ant0



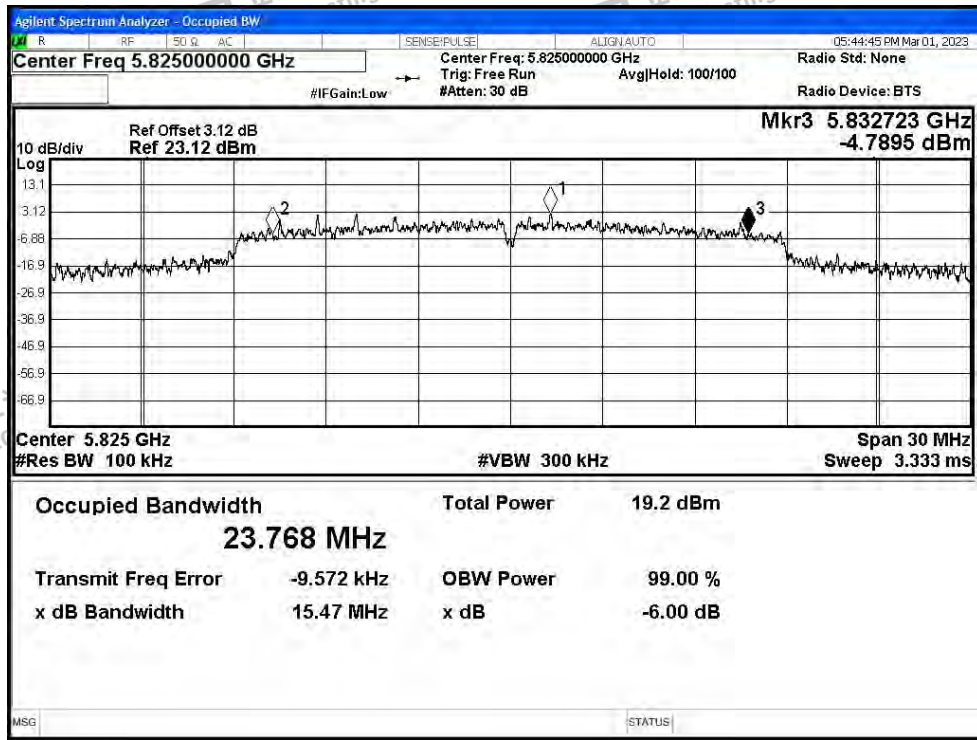
-6dB Bandwidth NVNT ac20 5785MHz Ant0



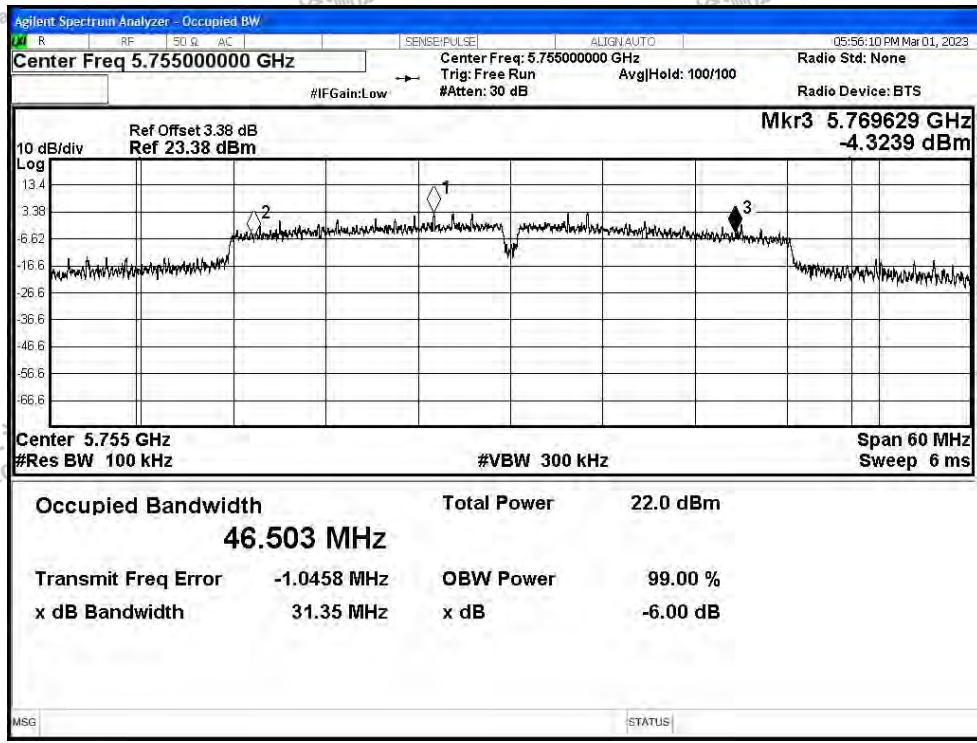




-6dB Bandwidth NVNT ac20 5825MHz Ant0



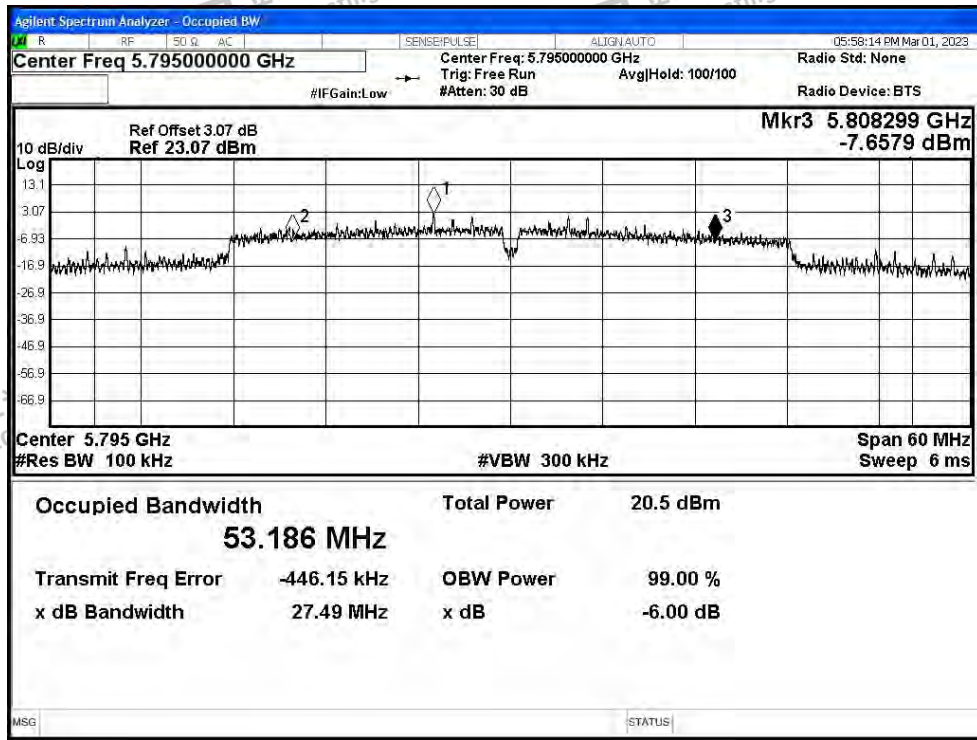
-6dB Bandwidth NVNT ac40 5755MHz Ant0



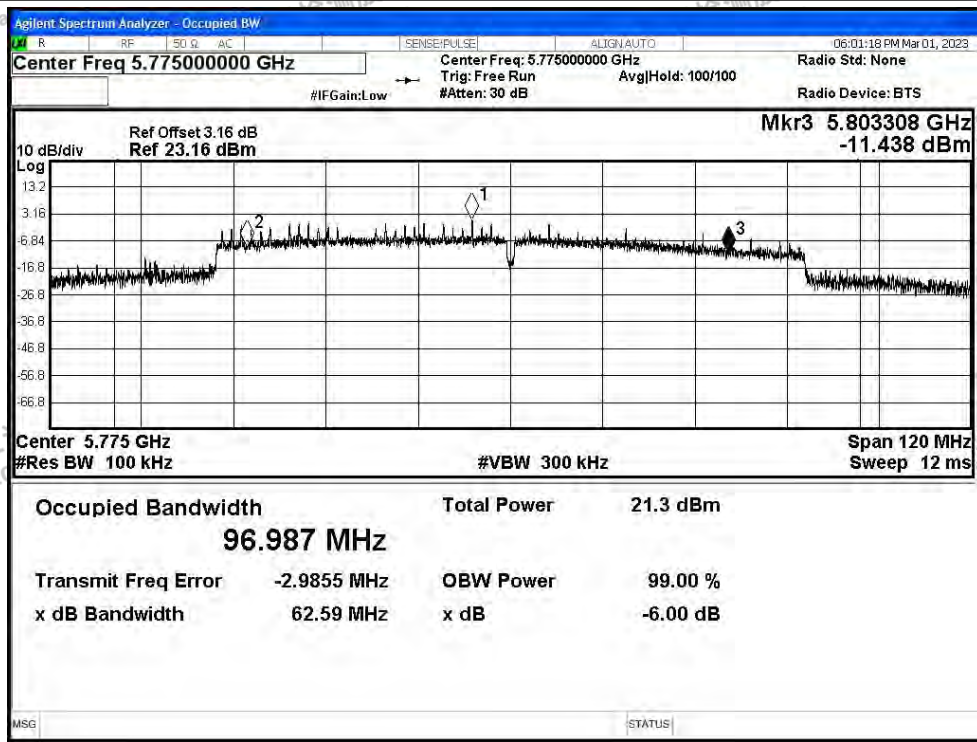




-6dB Bandwidth NVNT ac40 5795MHz Ant0



-6dB Bandwidth NVNT ac80 5775MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.077	>=0.5	Pass
NVNT	a	5785	Ant1	15.114	>=0.5	Pass
NVNT	a	5825	Ant1	15.067	>=0.5	Pass
NVNT	n20	5745	Ant1	15.999	>=0.5	Pass
NVNT	n20	5785	Ant1	15.279	>=0.5	Pass
NVNT	n20	5825	Ant1	15.995	>=0.5	Pass
NVNT	n40	5755	Ant1	31.295	>=0.5	Pass
NVNT	n40	5795	Ant1	33.797	>=0.5	Pass
NVNT	ac20	5745	Ant1	16.011	>=0.5	Pass
NVNT	ac20	5785	Ant1	15.448	>=0.5	Pass
NVNT	ac20	5825	Ant1	15.05	>=0.5	Pass
NVNT	ac40	5755	Ant1	31.348	>=0.5	Pass
NVNT	ac40	5795	Ant1	33.791	>=0.5	Pass
NVNT	ac80	5775	Ant1	62.595	>=0.5	Pass

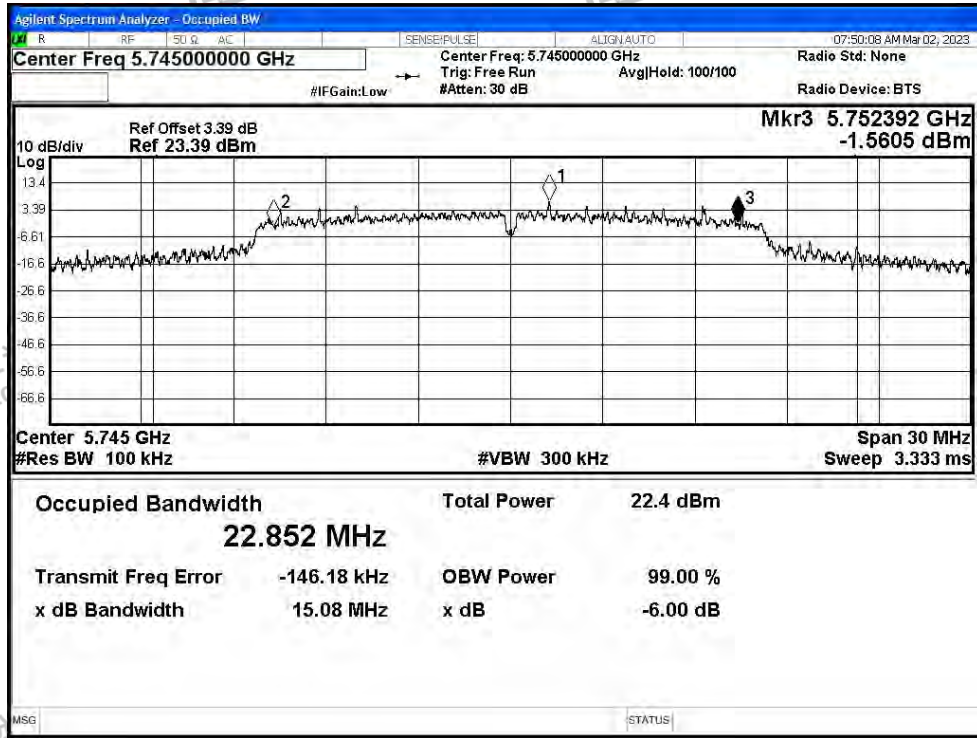


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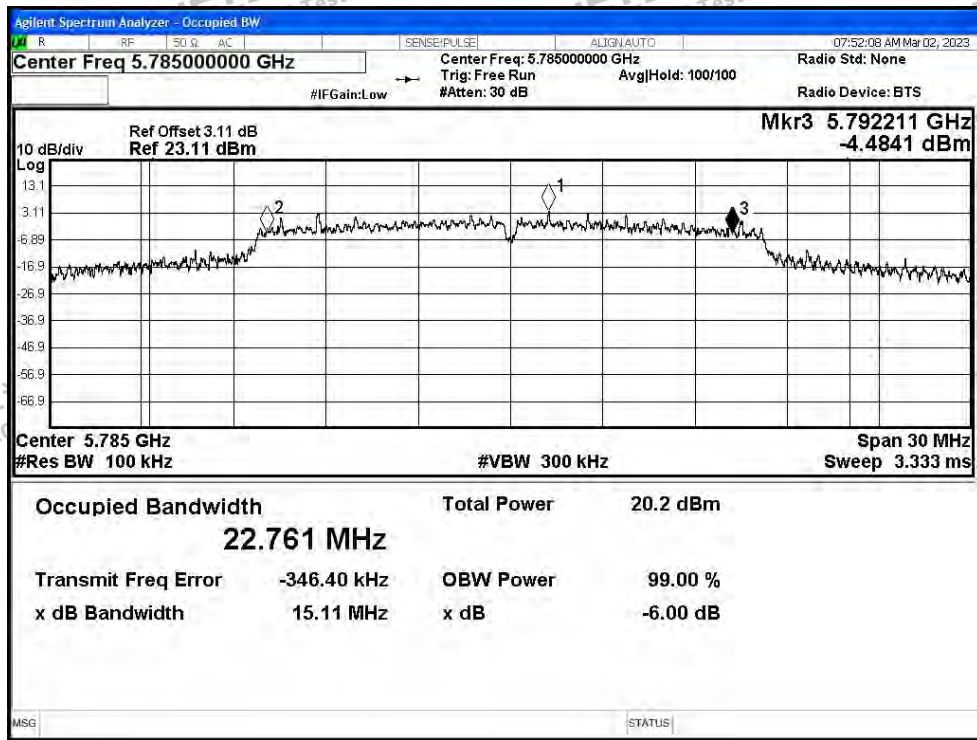


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



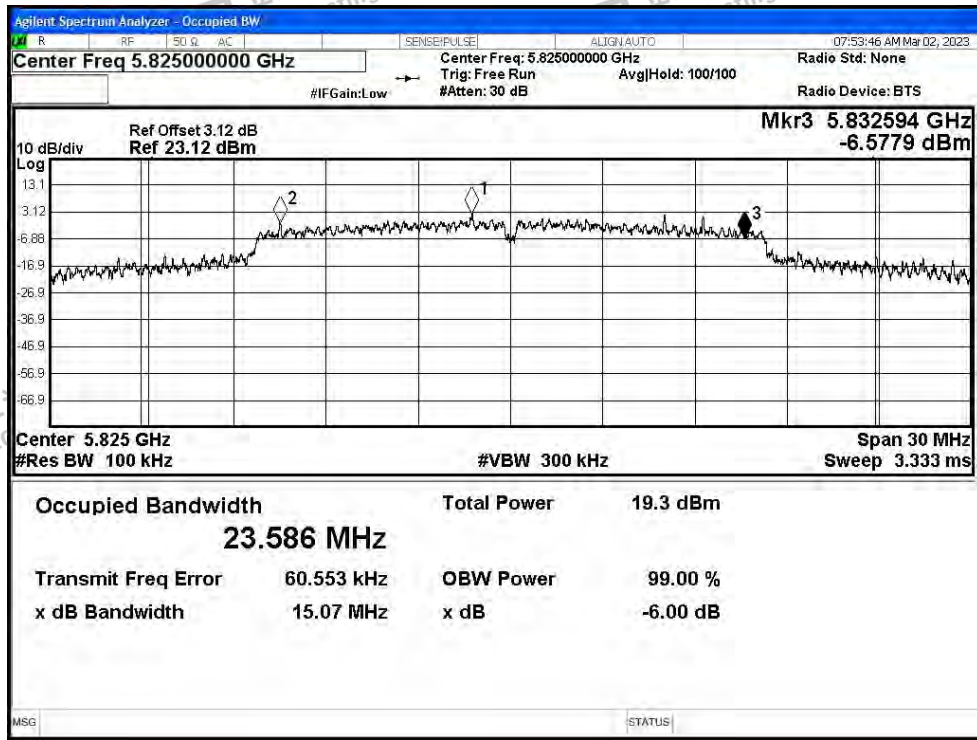
-6dB Bandwidth NVNT a 5785MHz Ant1



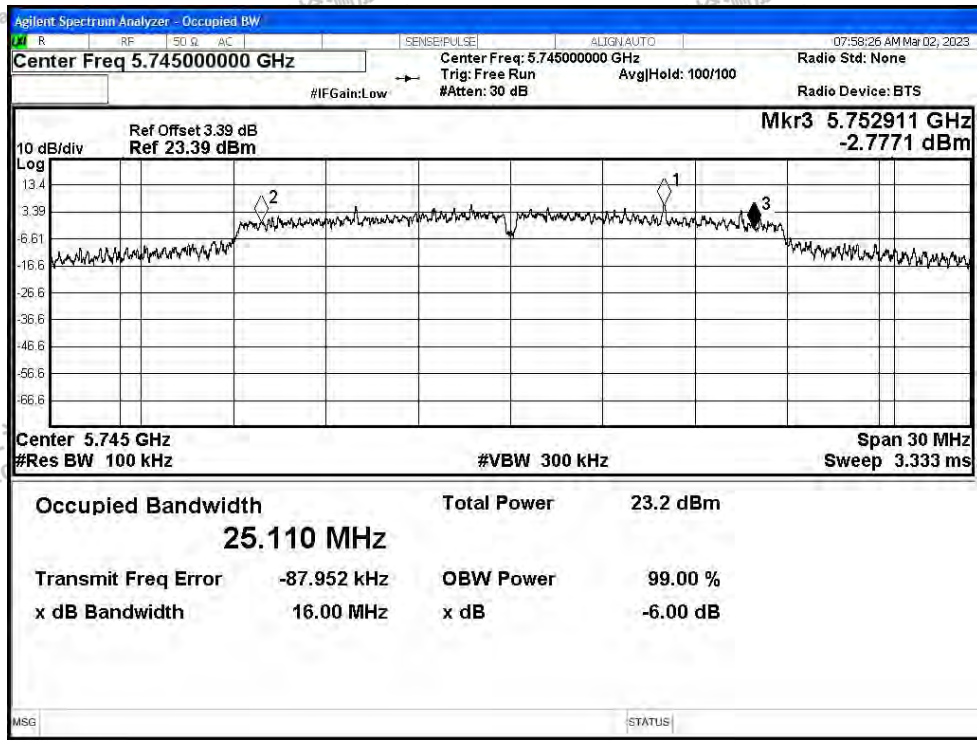




-6dB Bandwidth NVNT a 5825MHz Ant1

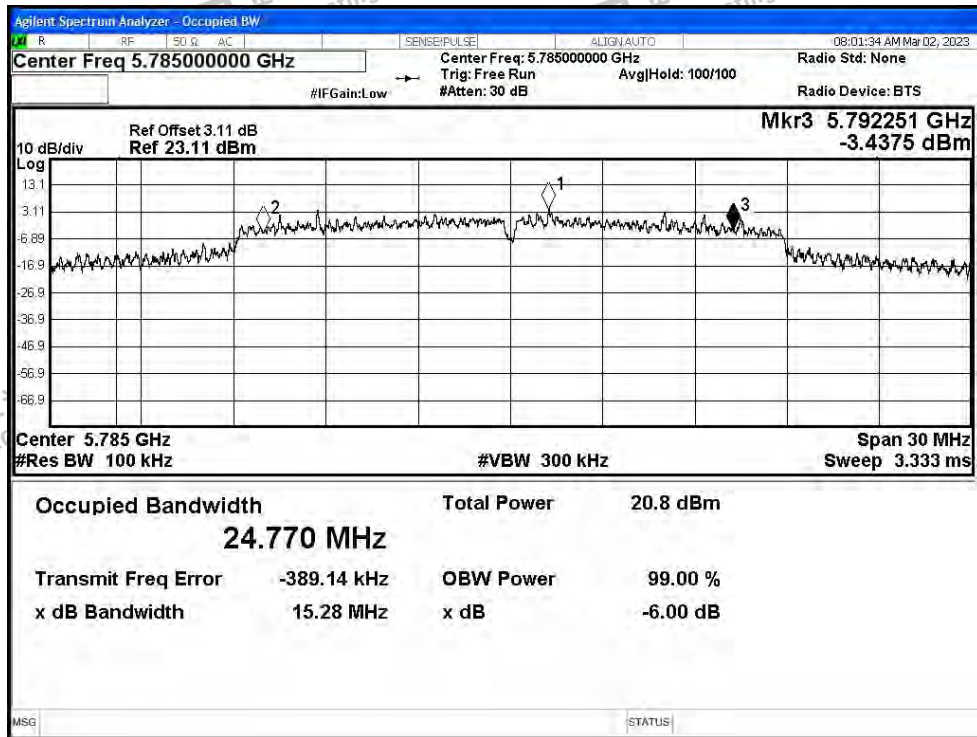


-6dB Bandwidth NVNT n20 5745MHz Ant1

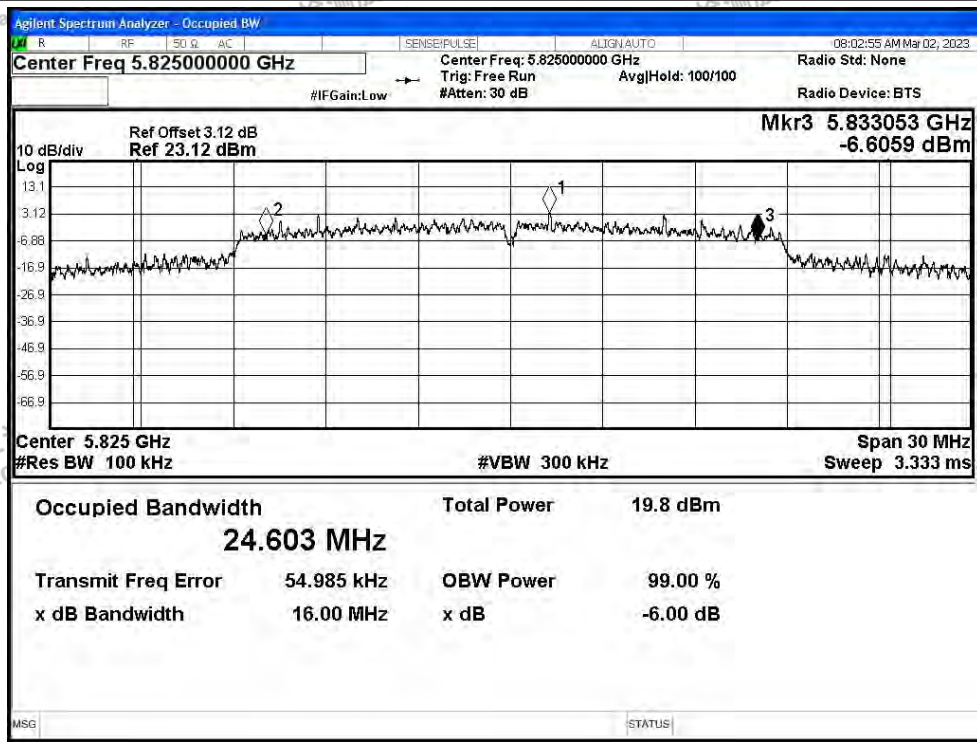




-6dB Bandwidth NVNT n20 5785MHz Ant1

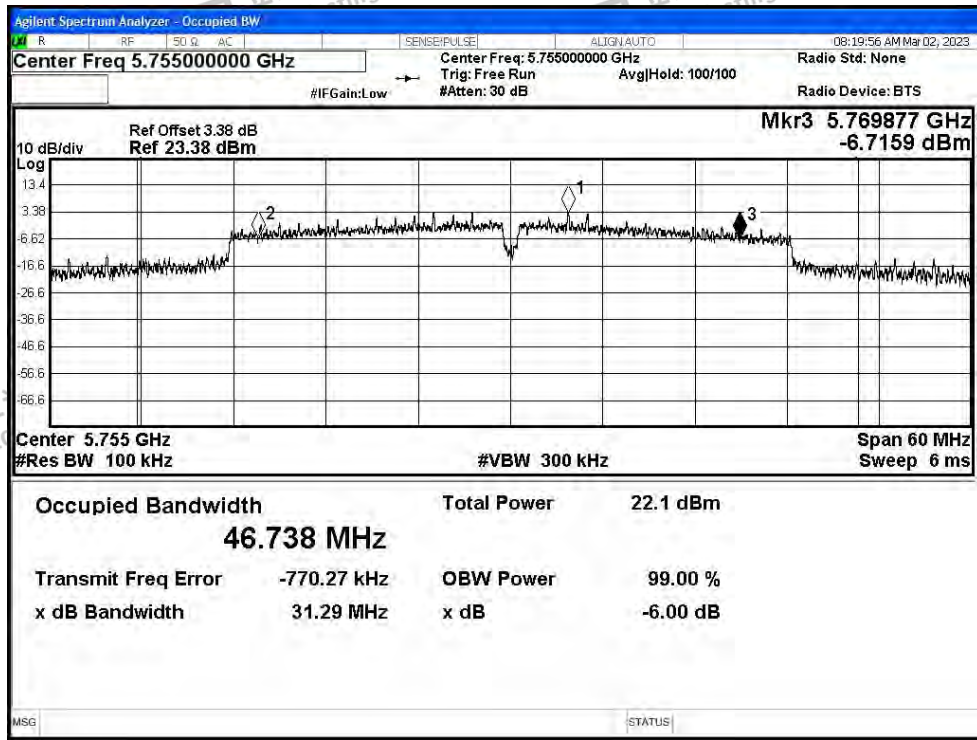


-6dB Bandwidth NVNT n20 5825MHz Ant1

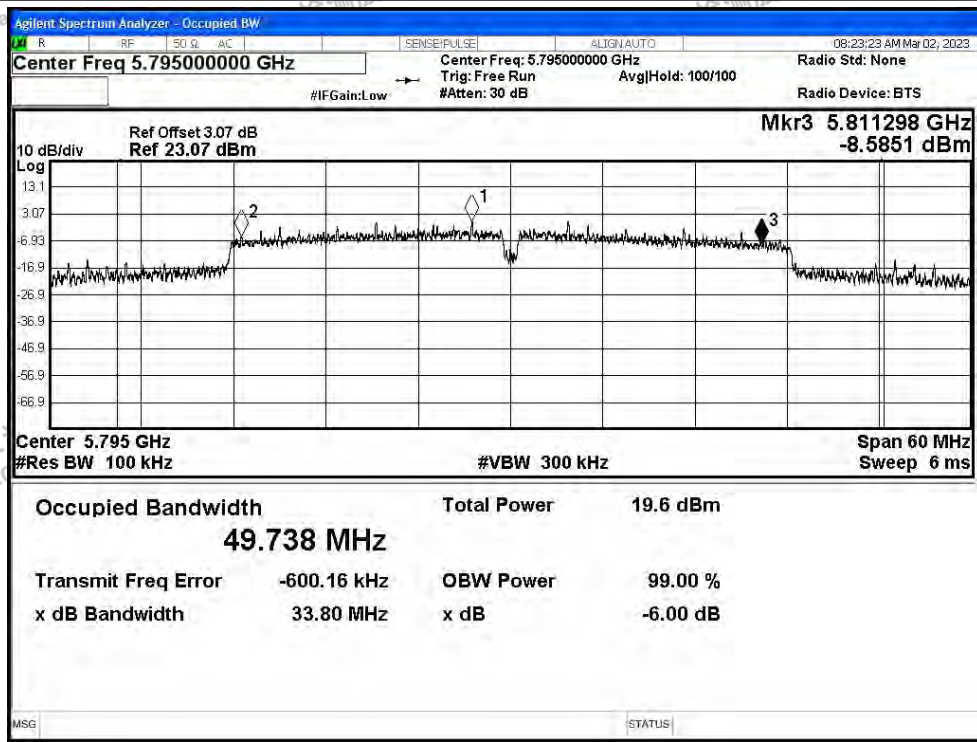




-6dB Bandwidth NVNT n40 5755MHz Ant1



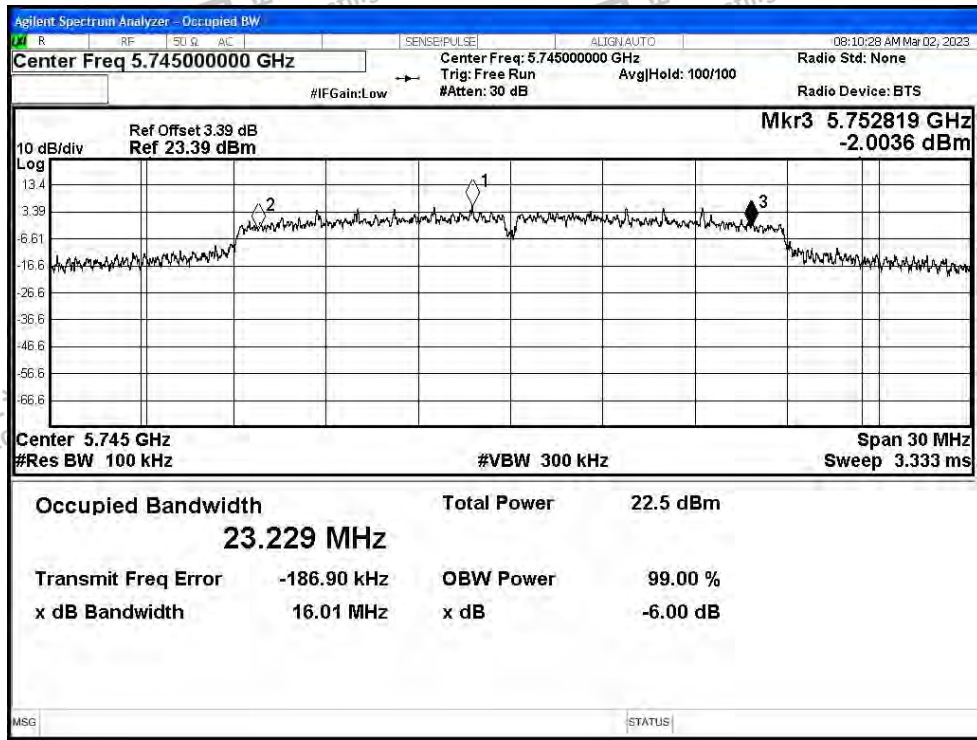
-6dB Bandwidth NVNT n40 5795MHz Ant1



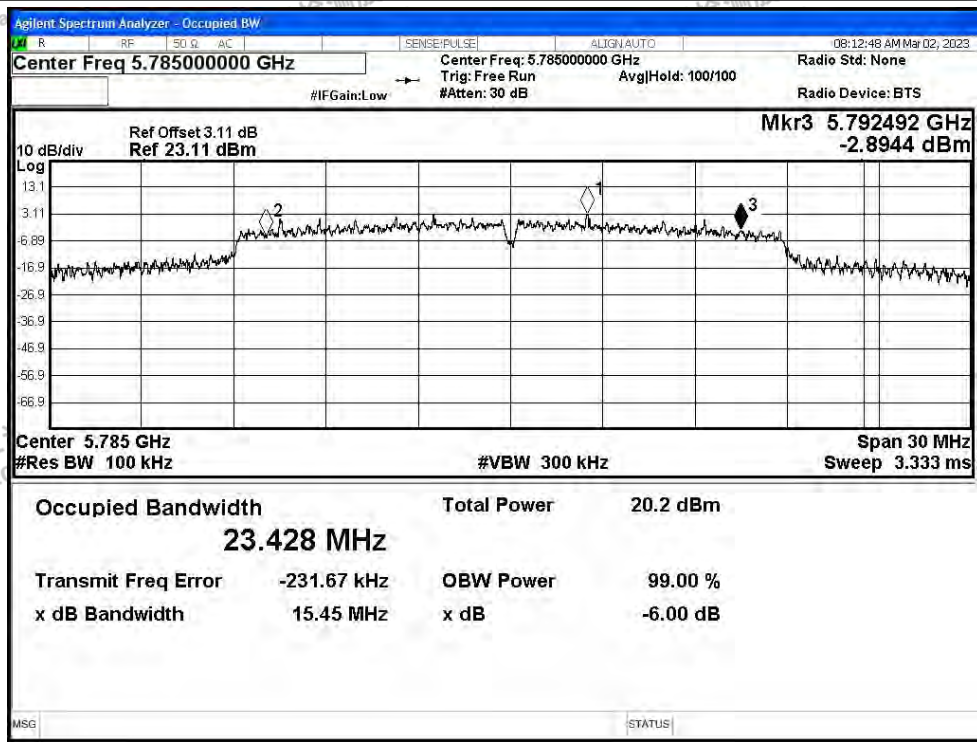




-6dB Bandwidth NVNT ac20 5745MHz Ant1

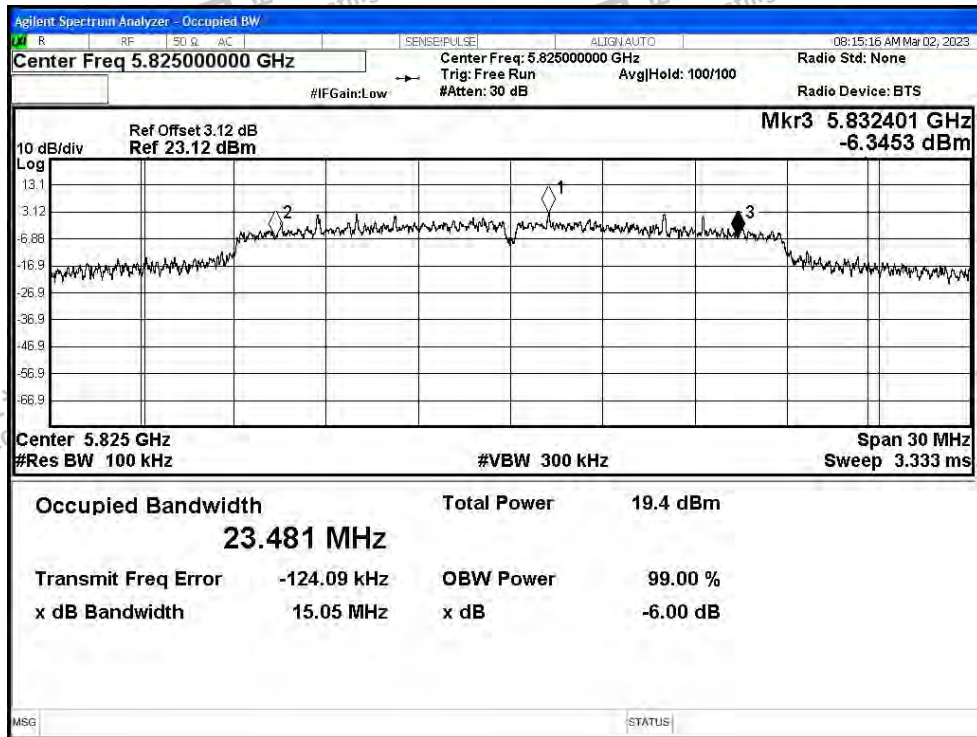


-6dB Bandwidth NVNT ac20 5785MHz Ant1

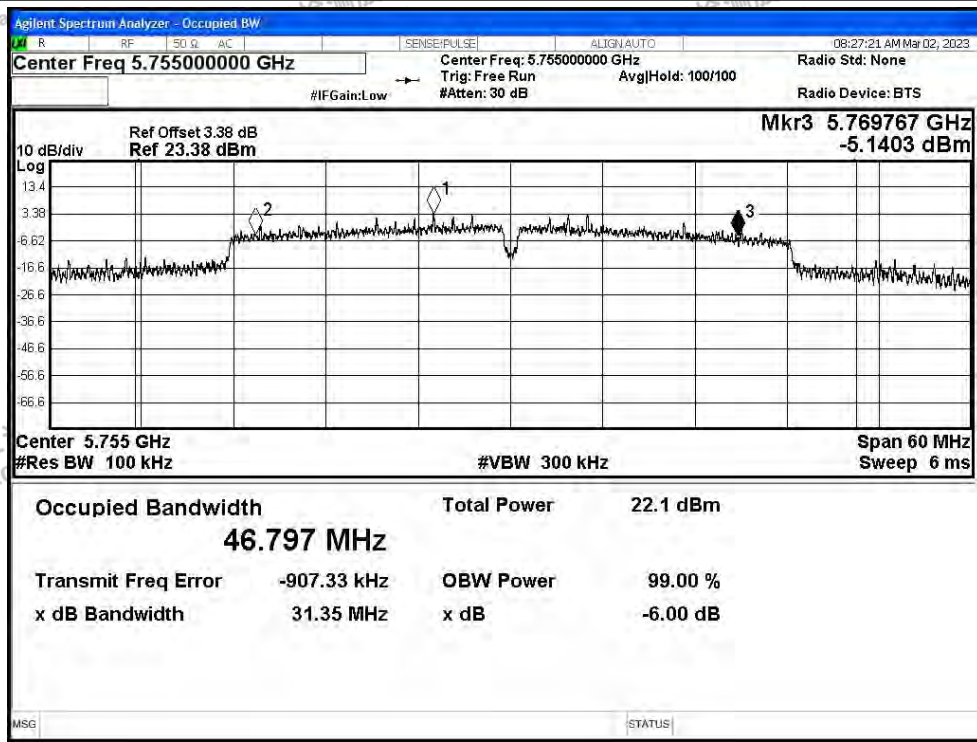




-6dB Bandwidth NVNT ac20 5825MHz Ant1

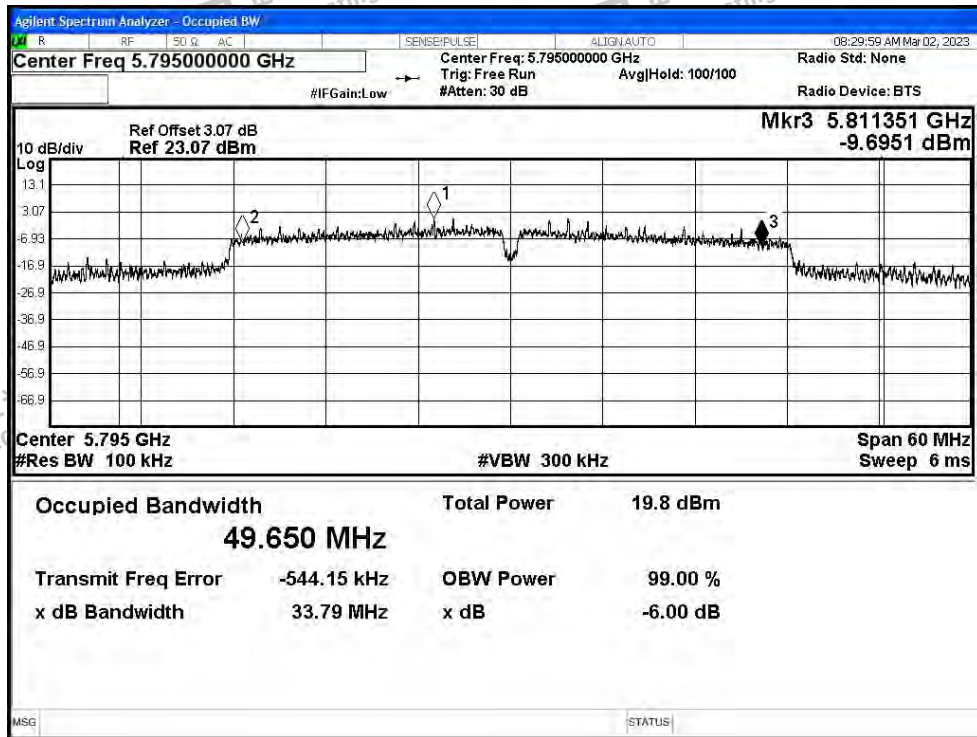


-6dB Bandwidth NVNT ac40 5755MHz Ant1

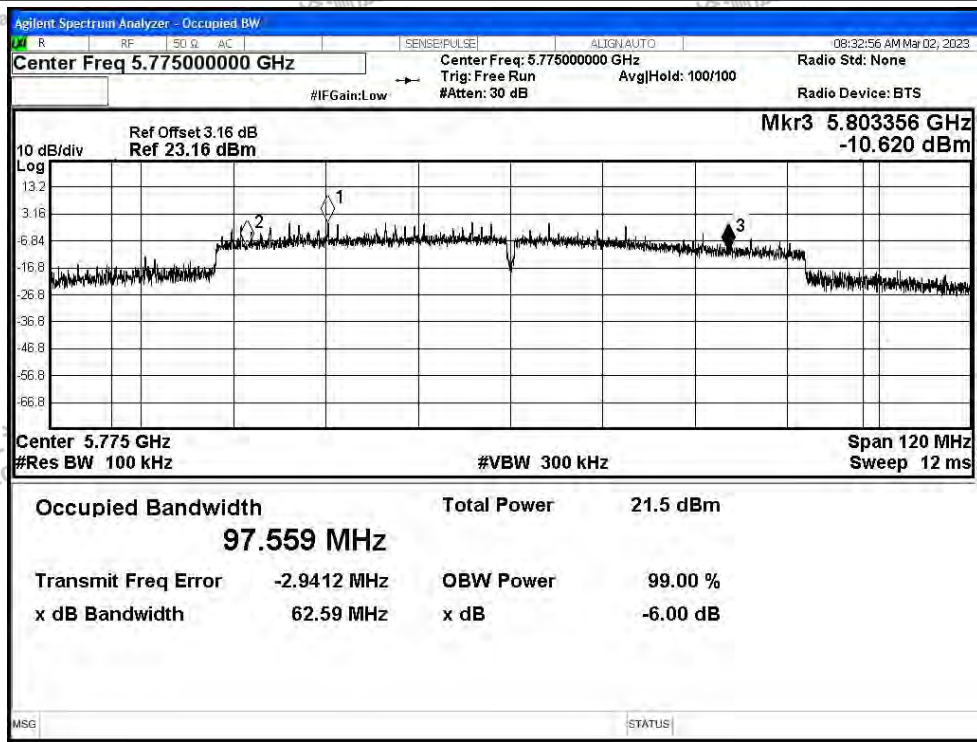




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1







### 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	Ant0	15.95	0.13	16.08	30	Pass
NVNT	a	5785	Ant0	13.69	0.13	13.82	30	Pass
NVNT	a	5825	Ant0	12.79	0.13	12.92	30	Pass
NVNT	n20	5745	Ant0	15.82	0.14	15.96	30	Pass
NVNT	n20	5785	Ant0	13.59	0.14	13.73	30	Pass
NVNT	n20	5825	Ant0	12.68	0.14	12.82	30	Pass
NVNT	n40	5755	Ant0	15.11	0.28	15.39	30	Pass
NVNT	n40	5795	Ant0	12.66	0.28	12.94	30	Pass
NVNT	ac20	5745	Ant0	16.08	0.14	16.22	30	Pass
NVNT	ac20	5785	Ant0	13.79	0.14	13.93	30	Pass
NVNT	ac20	5825	Ant0	12.69	0.14	12.83	30	Pass
NVNT	ac40	5755	Ant0	15.19	0.28	15.47	30	Pass
NVNT	ac40	5795	Ant0	13.47	0.28	13.75	30	Pass
NVNT	ac80	5775	Ant0	13.63	0.55	14.18	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	15.96	0.13	16.09	30	Pass
NVNT	a	5785	Ant1	13.79	0.13	13.92	30	Pass
NVNT	a	5825	Ant1	13.5	0.13	13.63	30	Pass
NVNT	n20	5745	Ant1	16.51	0.14	16.65	30	Pass
NVNT	n20	5785	Ant1	14.16	0.14	14.3	30	Pass
NVNT	n20	5825	Ant1	13.17	0.15	13.32	30	Pass
NVNT	n40	5755	Ant1	15.32	0.29	15.61	30	Pass
NVNT	n40	5795	Ant1	12.86	0.29	13.15	30	Pass
NVNT	ac20	5745	Ant1	16.01	0.14	16.15	30	Pass
NVNT	ac20	5785	Ant1	13.69	0.14	13.83	30	Pass
NVNT	ac20	5825	Ant1	12.79	0.14	12.93	30	Pass
NVNT	ac40	5755	Ant1	15.38	0.28	15.66	30	Pass
NVNT	ac40	5795	Ant1	12.88	0.28	13.16	30	Pass
NVNT	ac80	5775	Ant1	13.72	0.55	14.27	30	Pass



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Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	15.96	16.65	19.33	30	Pass
NVNT	n20	5785	13.73	14.3	17.03	30	Pass
NVNT	n20	5825	12.82	13.32	16.09	30	Pass
NVNT	n40	5755	15.39	15.61	18.51	30	Pass
NVNT	n40	5795	12.94	13.15	16.06	30	Pass
NVNT	ac20	5745	16.22	16.15	19.20	30	Pass
NVNT	ac20	5785	13.93	13.83	16.89	30	Pass
NVNT	ac20	5825	12.83	12.93	15.89	30	Pass
NVNT	ac40	5755	15.47	15.66	18.58	30	Pass
NVNT	ac40	5795	13.75	13.16	16.48	30	Pass
NVNT	ac80	5775	14.18	14.27	17.24	30	Pass



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### 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	Ant0	1.87	0.13	2.00	30	Pass
NVNT	a	5785	Ant0	-1.53	0.13	-1.4	30	Pass
NVNT	a	5825	Ant0	-2.48	0.13	-2.35	30	Pass
NVNT	n20	5745	Ant0	0.23	0.14	0.37	30	Pass
NVNT	n20	5785	Ant0	-1.47	0.14	-1.33	30	Pass
NVNT	n20	5825	Ant0	-2.88	0.14	-2.74	30	Pass
NVNT	n40	5755	Ant0	-4.71	0.28	-4.43	30	Pass
NVNT	n40	5795	Ant0	-6.7	0.28	-6.42	30	Pass
NVNT	ac20	5745	Ant0	-0.03	0.14	0.11	30	Pass
NVNT	ac20	5785	Ant0	-1.57	0.14	-1.43	30	Pass
NVNT	ac20	5825	Ant0	-2.35	0.14	-2.21	30	Pass
NVNT	ac40	5755	Ant0	-3.37	0.28	-3.09	30	Pass
NVNT	ac40	5795	Ant0	-5.05	0.28	-4.77	30	Pass
NVNT	ac80	5775	Ant0	-9.8	0.55	-9.25	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	Ant1	1.53	0.13	1.66	30	Pass
NVNT	a	5785	Ant1	-1.31	0.13	-1.18	30	Pass
NVNT	a	5825	Ant1	-2.41	0.13	-2.28	30	Pass
NVNT	n20	5745	Ant1	0.48	0.14	0.62	30	Pass
NVNT	n20	5785	Ant1	-1.52	0.14	-1.38	30	Pass
NVNT	n20	5825	Ant1	-1.87	0.15	-1.72	30	Pass
NVNT	n40	5755	Ant1	-4.01	0.29	-3.72	30	Pass
NVNT	n40	5795	Ant1	-5.75	0.29	-5.46	30	Pass
NVNT	ac20	5745	Ant1	0.05	0.14	0.19	30	Pass
NVNT	ac20	5785	Ant1	-1.25	0.14	-1.11	30	Pass
NVNT	ac20	5825	Ant1	-2.92	0.14	-2.78	30	Pass
NVNT	ac40	5755	Ant1	-3.59	0.28	-3.31	30	Pass
NVNT	ac40	5795	Ant1	-5.87	0.28	-5.59	30	Pass
NVNT	ac80	5775	Ant1	-10.23	0.55	-9.68	30	Pass



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Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	0.37	0.62	3.51	30	Pass
NVNT	n20	5785	-1.33	-1.38	1.66	30	Pass
NVNT	n20	5825	-2.74	-1.72	0.81	30	Pass
NVNT	n40	5755	-4.43	-3.72	-1.05	30	Pass
NVNT	n40	5795	-6.42	-5.46	-2.90	30	Pass
NVNT	ac20	5745	0.11	0.19	3.16	30	Pass
NVNT	ac20	5785	-1.43	-1.11	1.74	30	Pass
NVNT	ac20	5825	-2.21	-2.78	0.52	30	Pass
NVNT	ac40	5755	-3.09	-3.31	-0.19	30	Pass
NVNT	ac40	5795	-4.77	-5.59	-2.15	30	Pass
NVNT	ac80	5775	-9.25	-9.68	-6.45	30	Pass

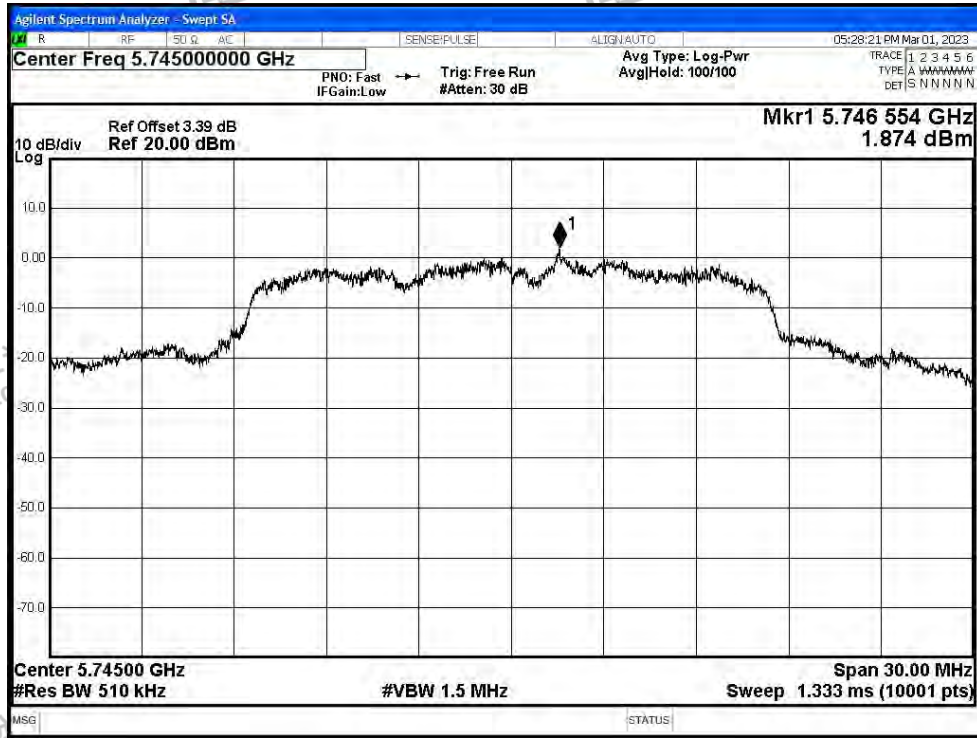


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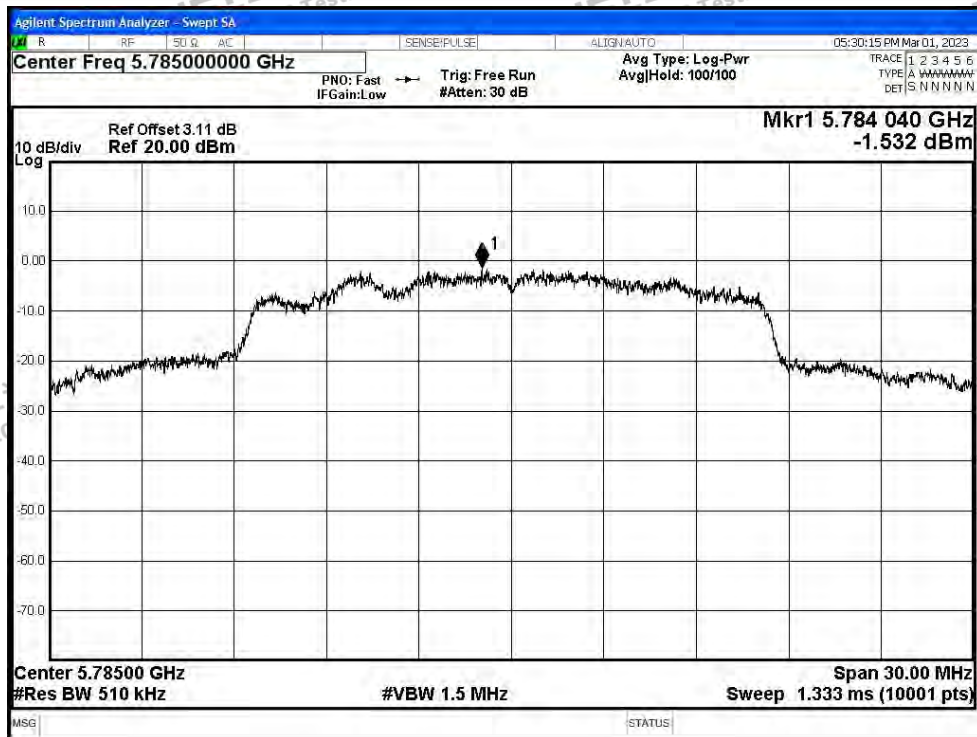


Test Graphs

PSD NVNT a 5745MHz Ant0

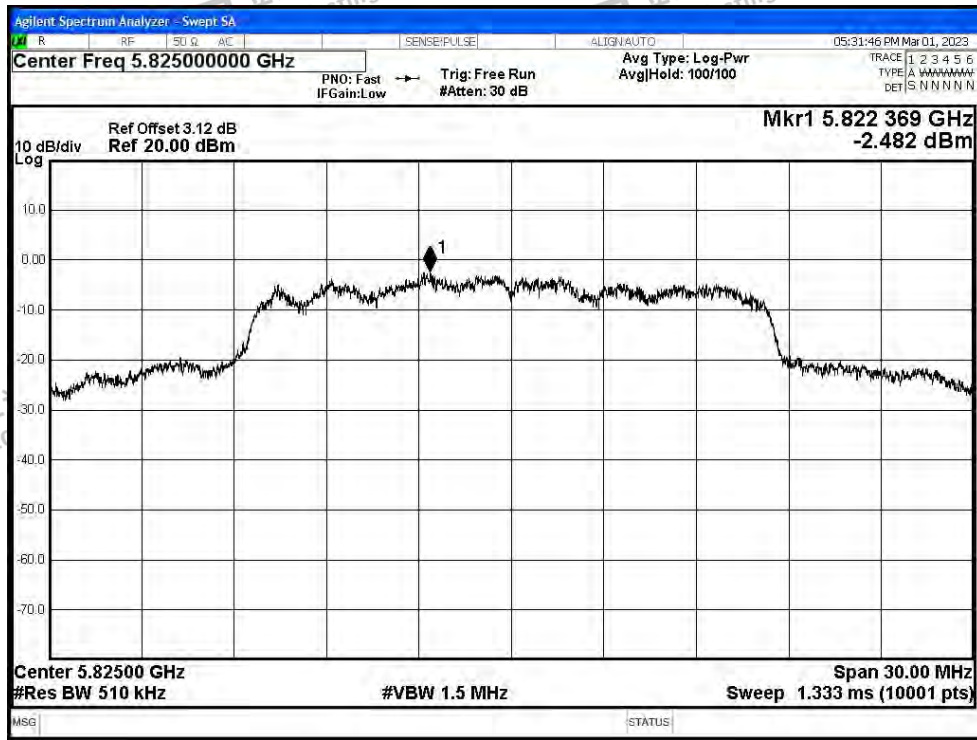


PSD NVNT a 5785MHz Ant0

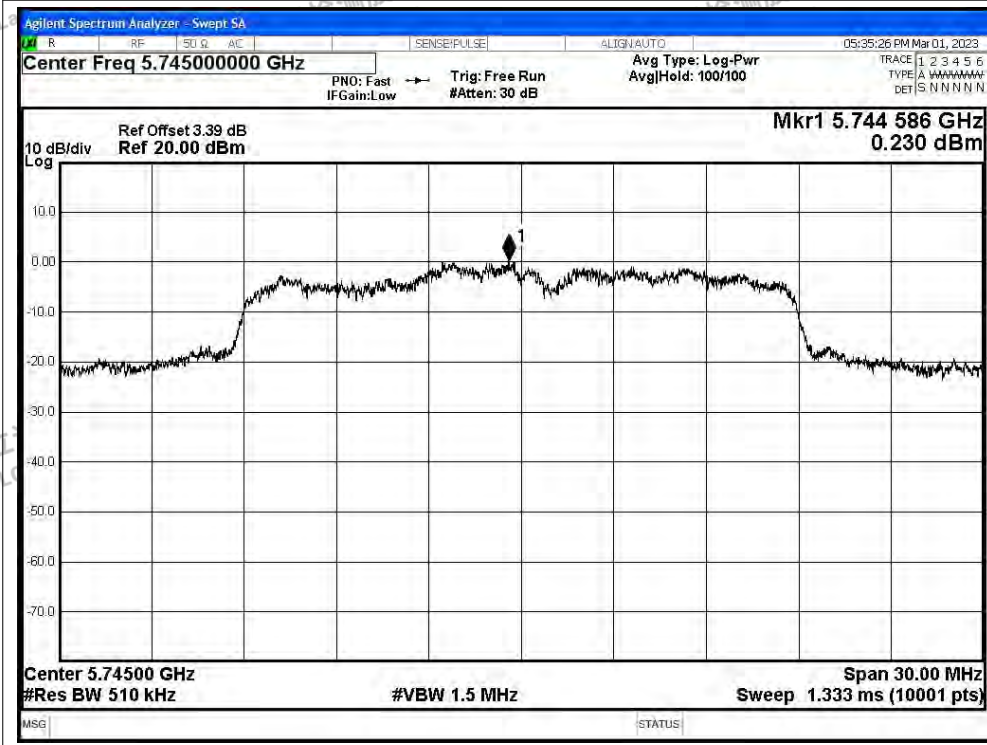




PSD NVNT a 5825MHz Ant0



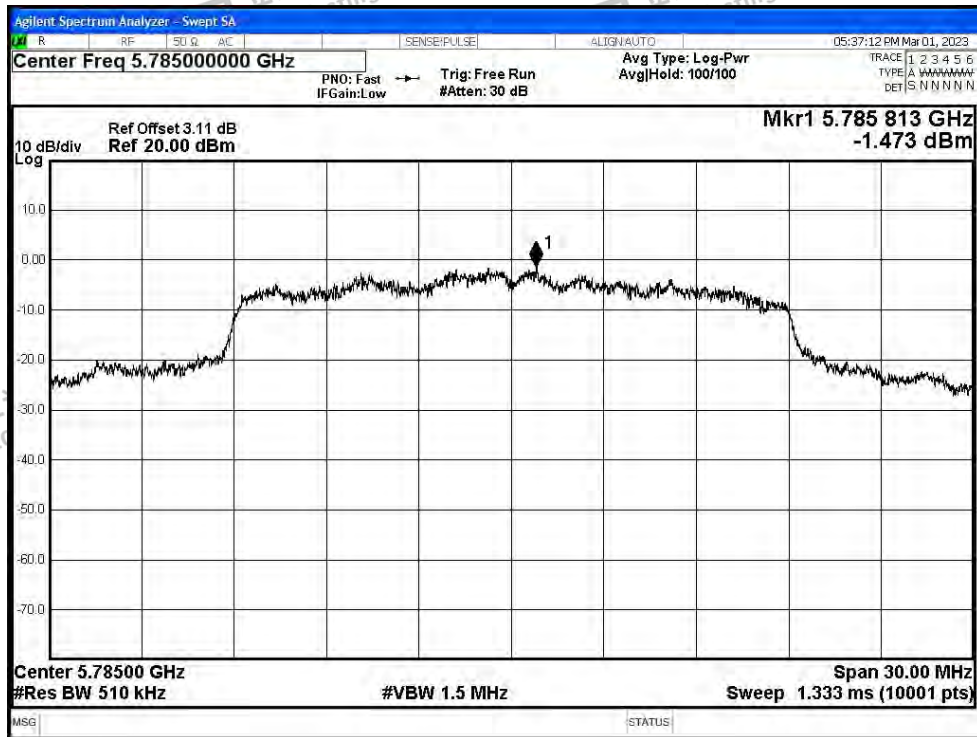
PSD NVNT n20 5745MHz Ant0



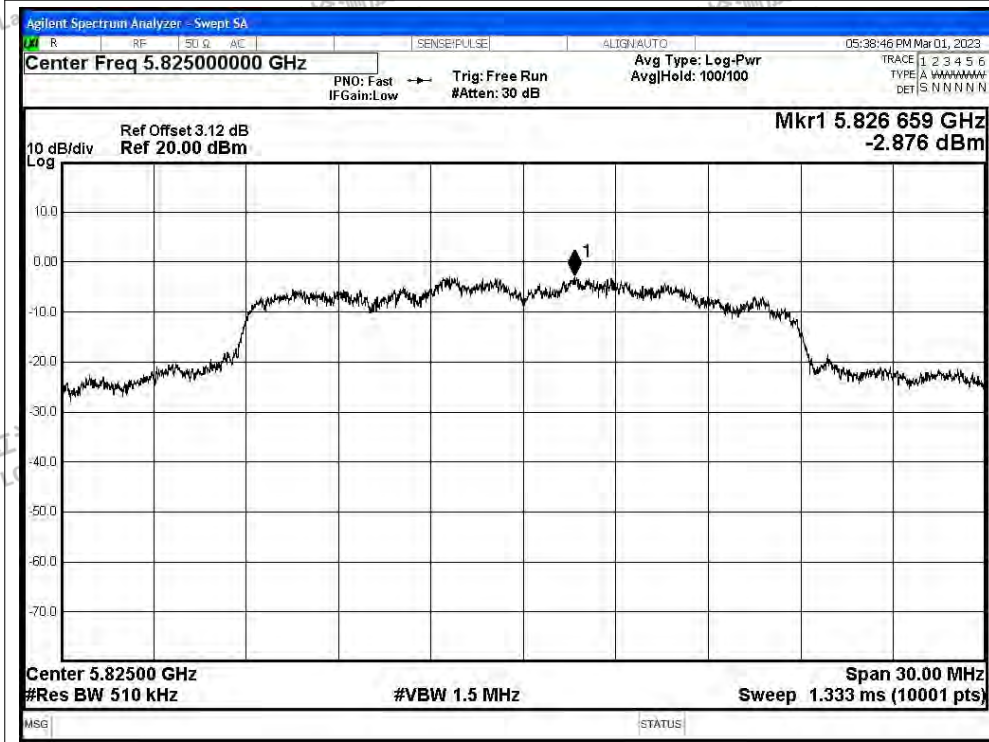




PSD NVNT n20 5785MHz Ant0

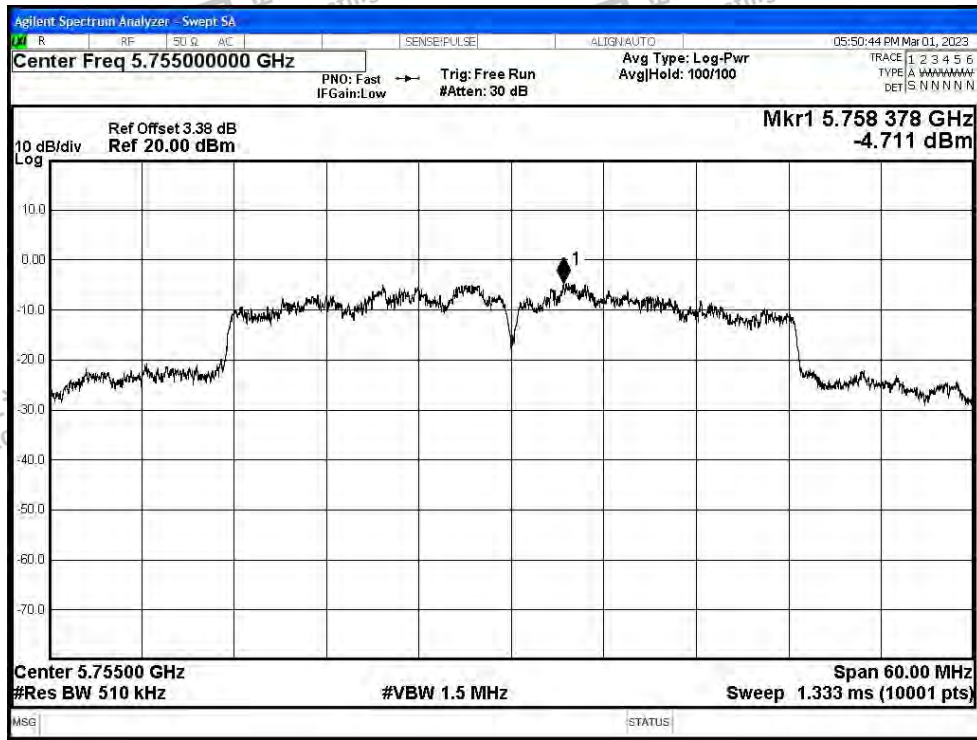


PSD NVNT n20 5825MHz Ant0

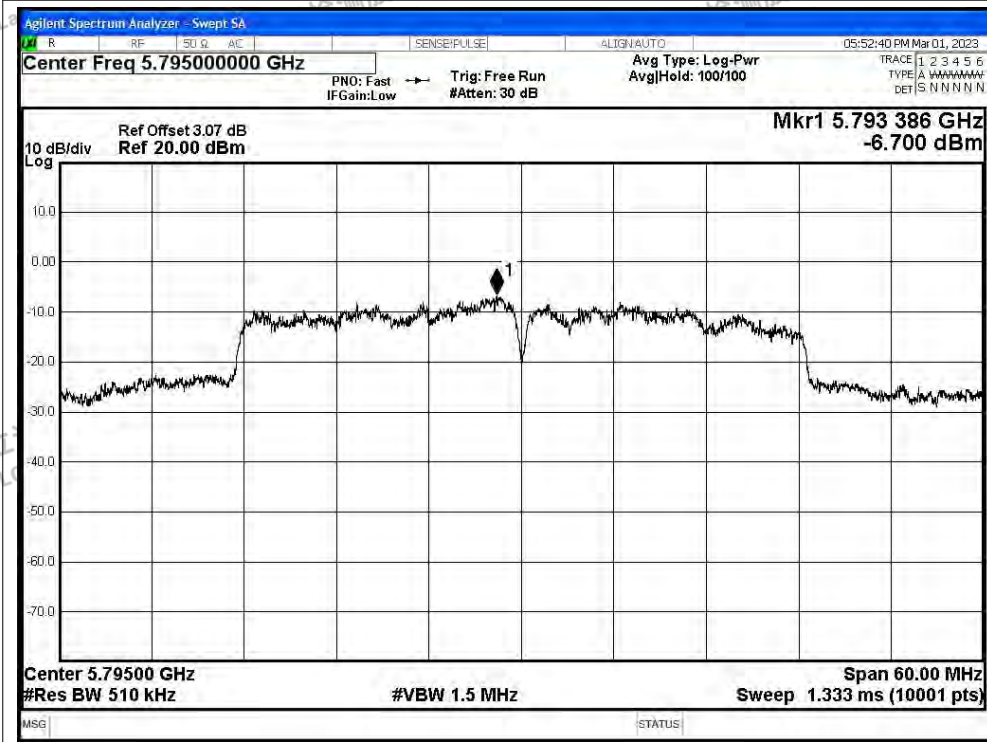




PSD NVNT n40 5755MHz Ant0

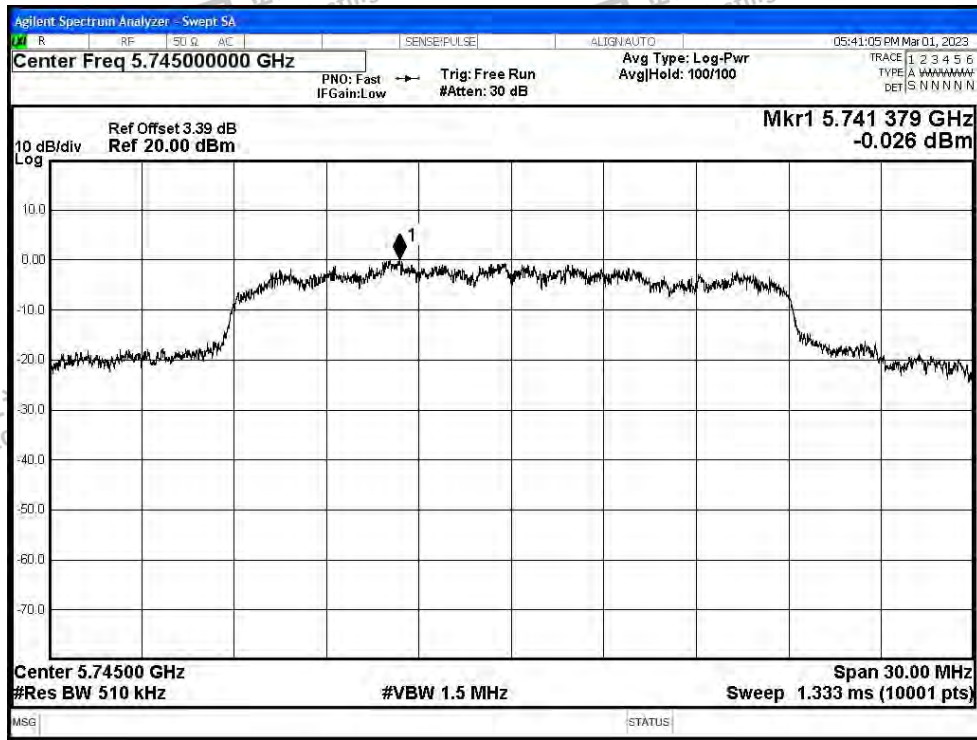


PSD NVNT n40 5795MHz Ant0

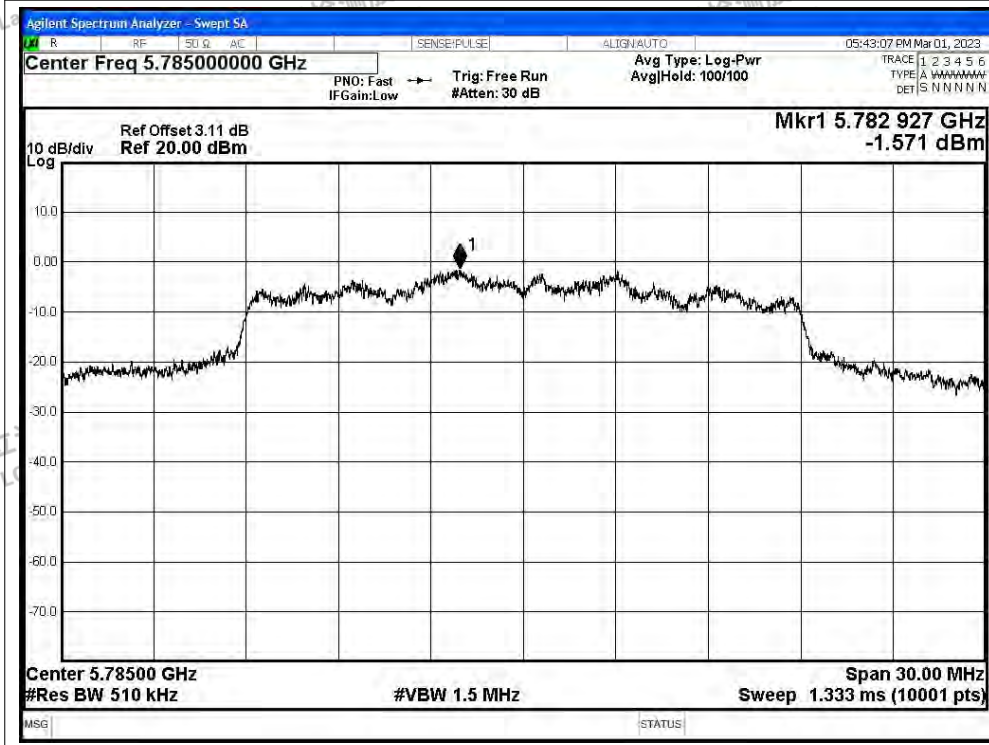




PSD NVNT ac20 5745MHz Ant0



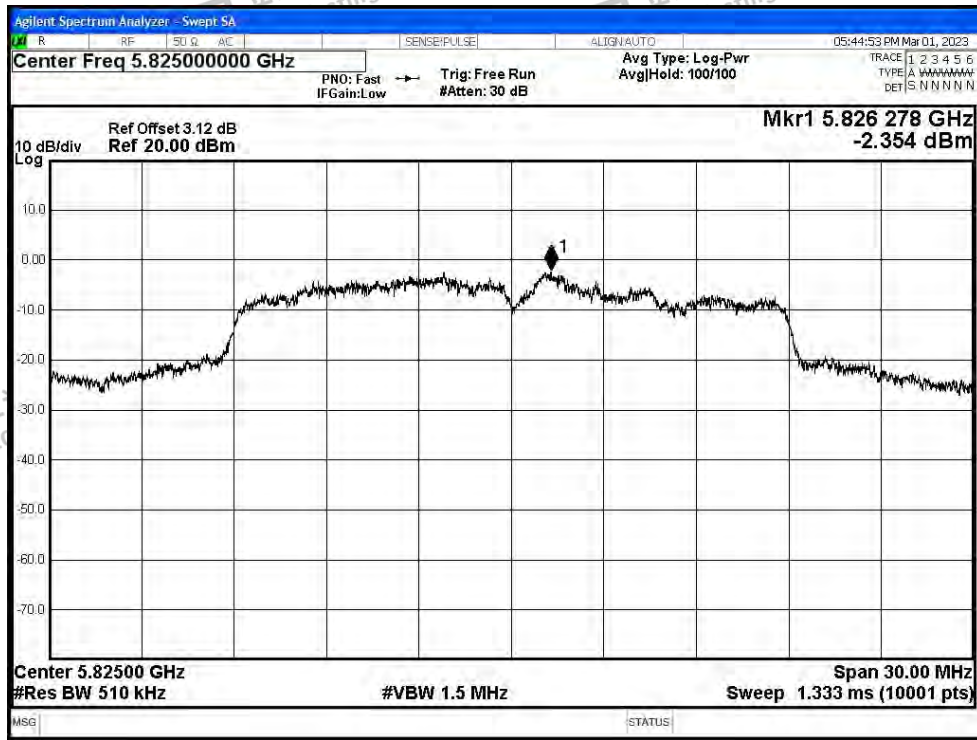
PSD NVNT ac20 5785MHz Ant0



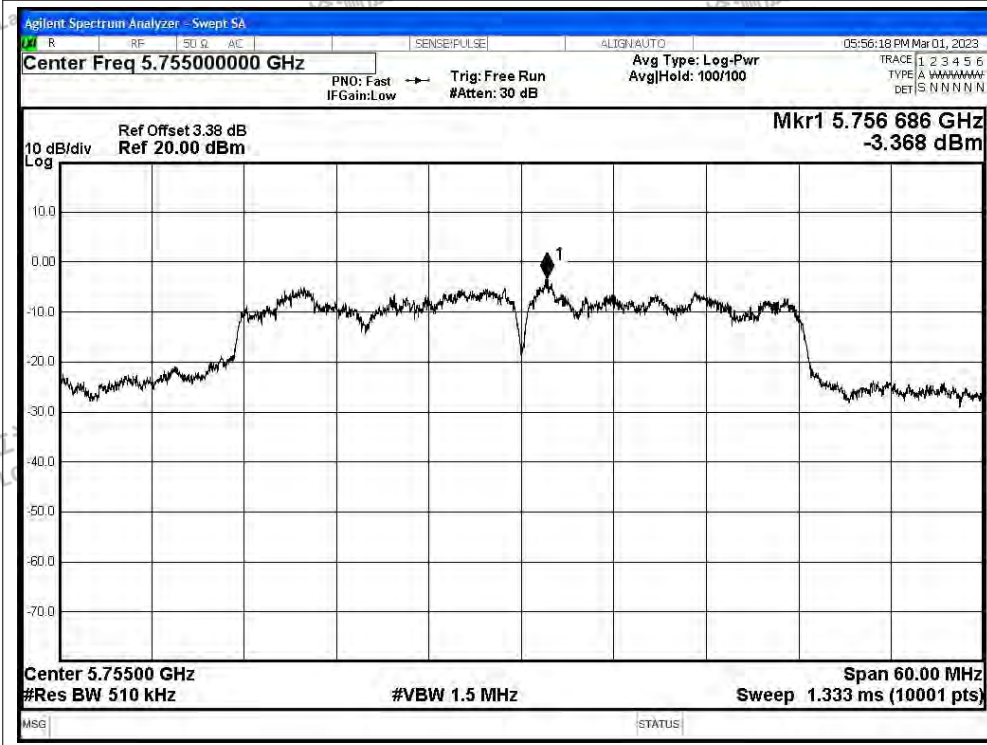




PSD NVNT ac20 5825MHz Ant0

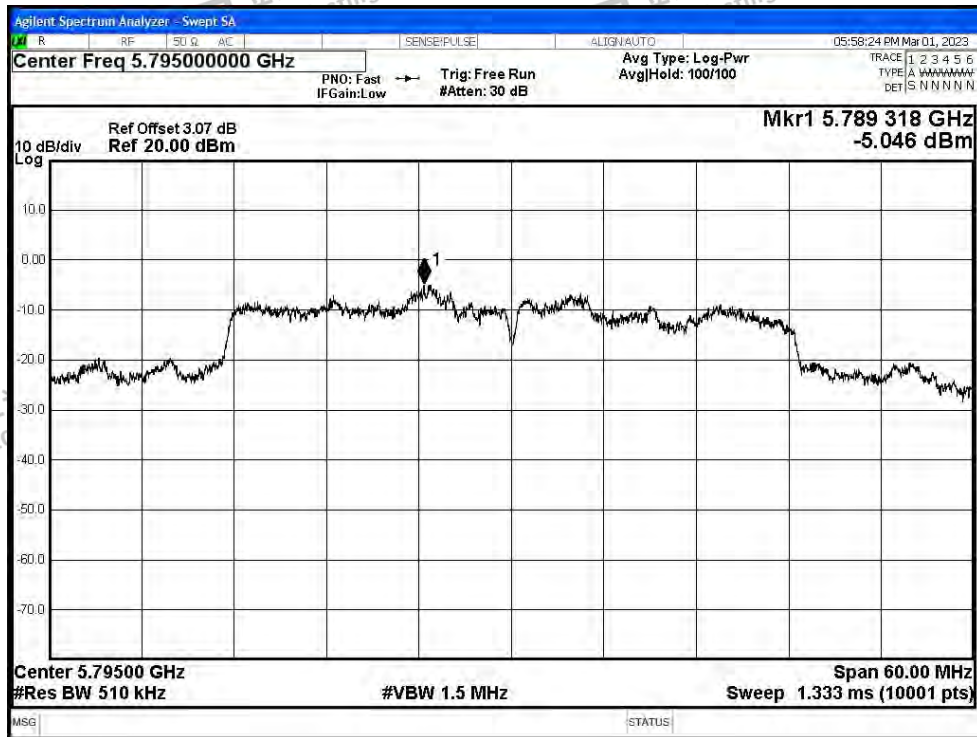


PSD NVNT ac40 5755MHz Ant0

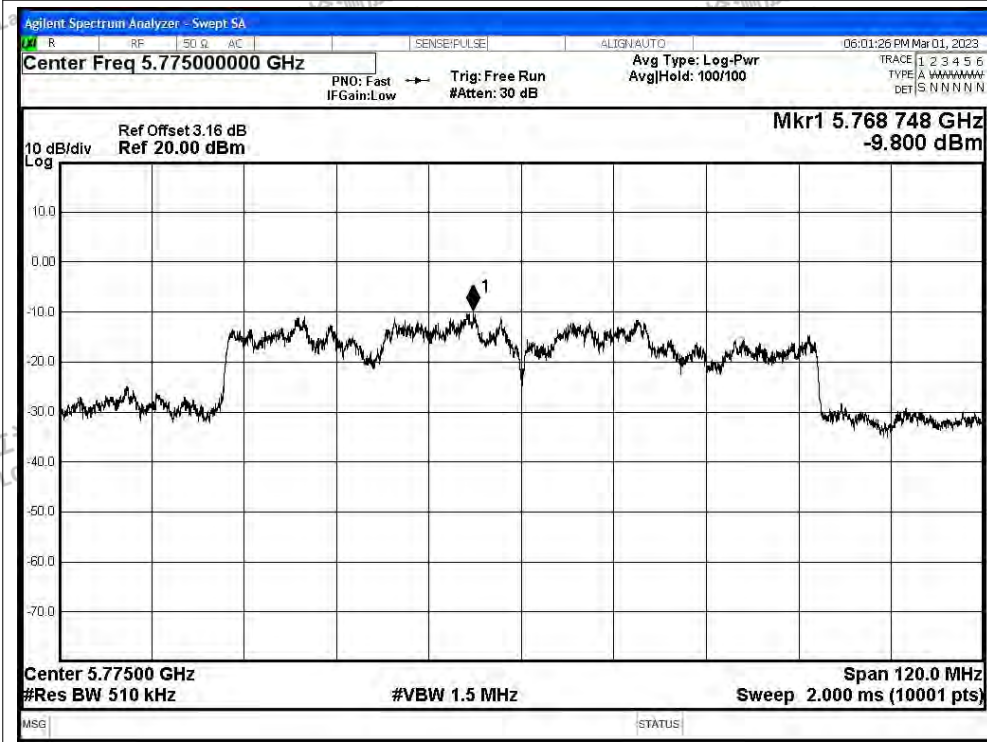




PSD NVNT ac40 5795MHz Ant0



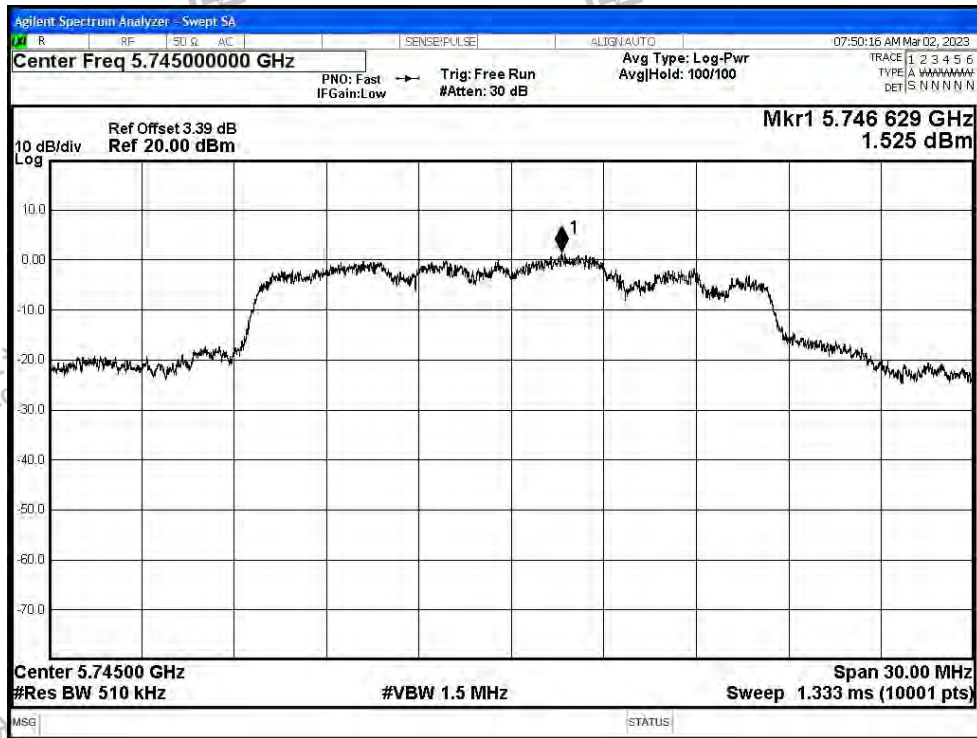
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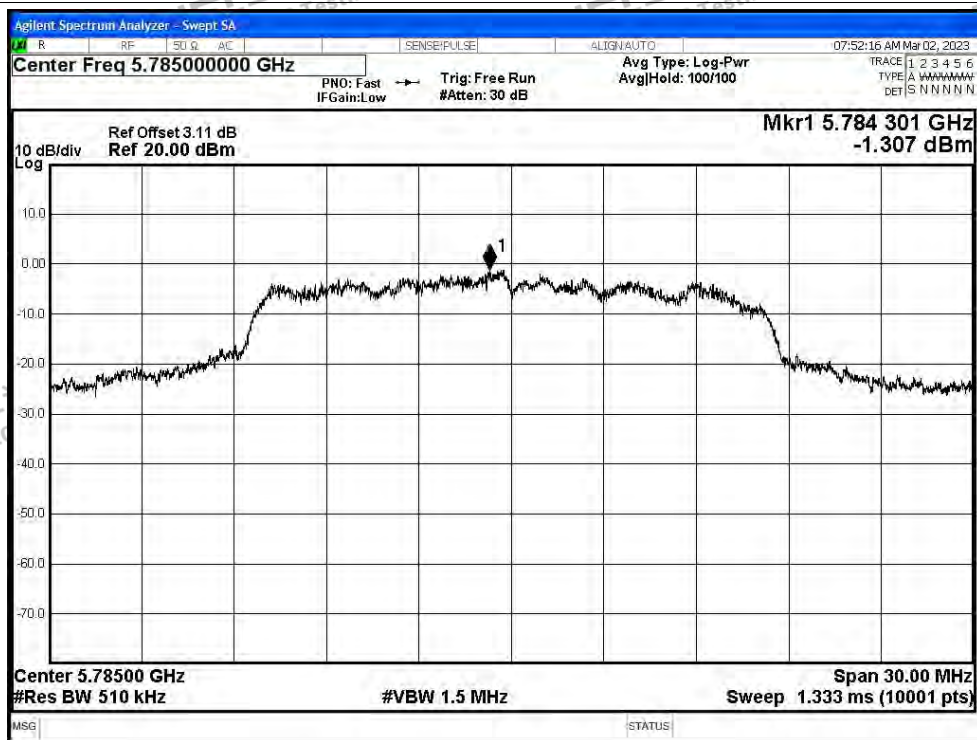


Test Graphs

PSD NVNT a 5745MHz Ant1



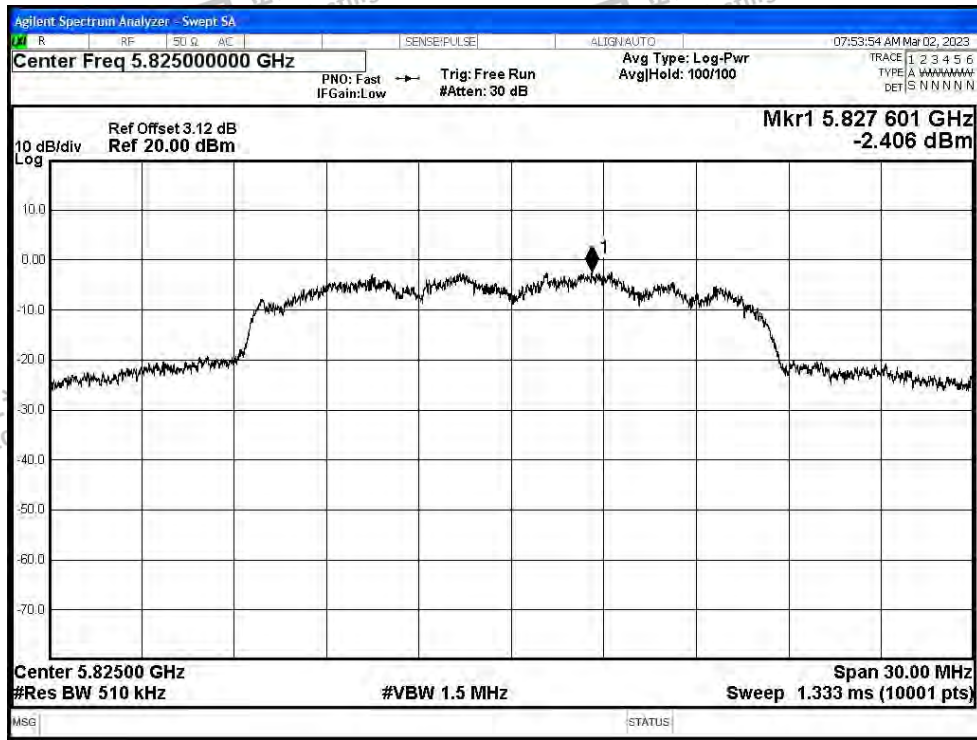
PSD NVNT a 5785MHz Ant1



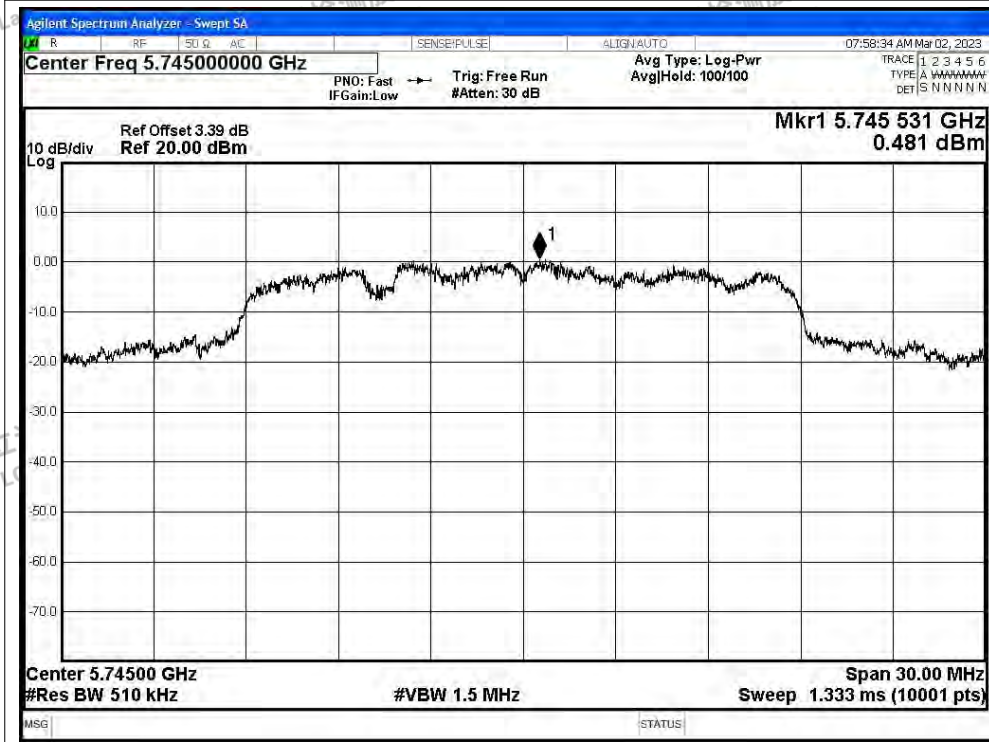




PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1

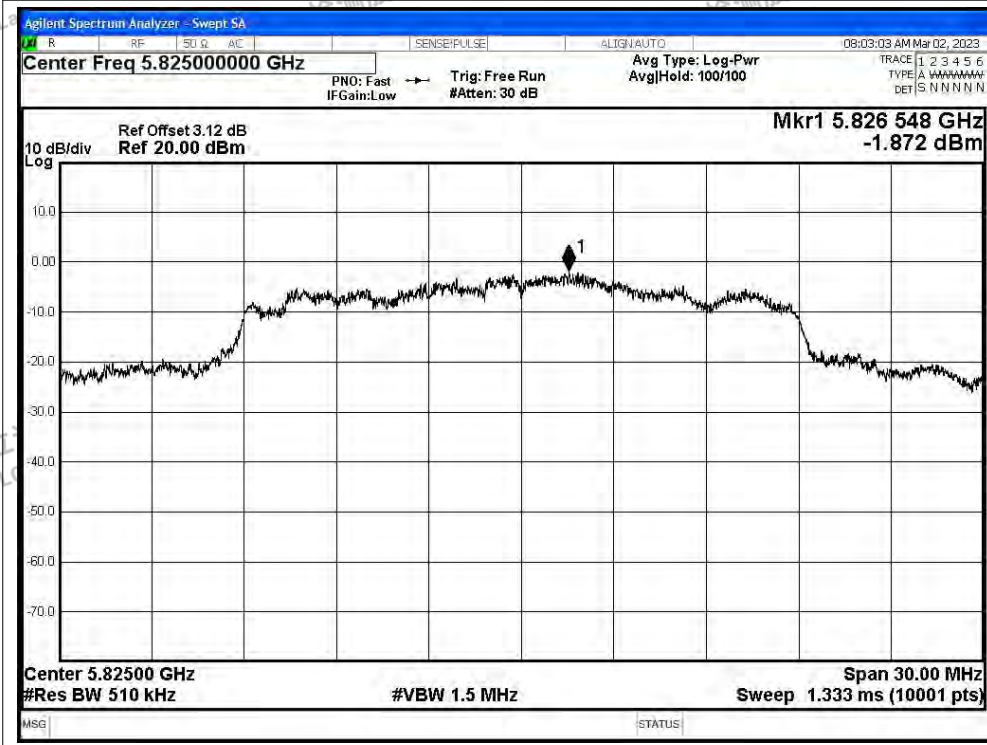




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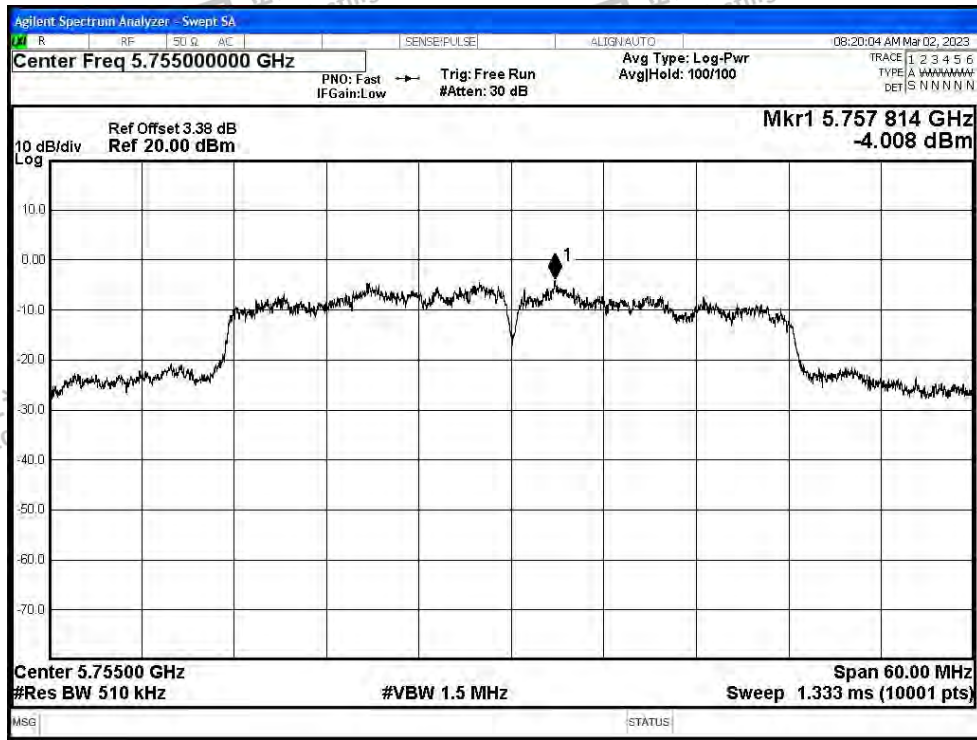


PSD NVNT n20 5825MHz Ant1

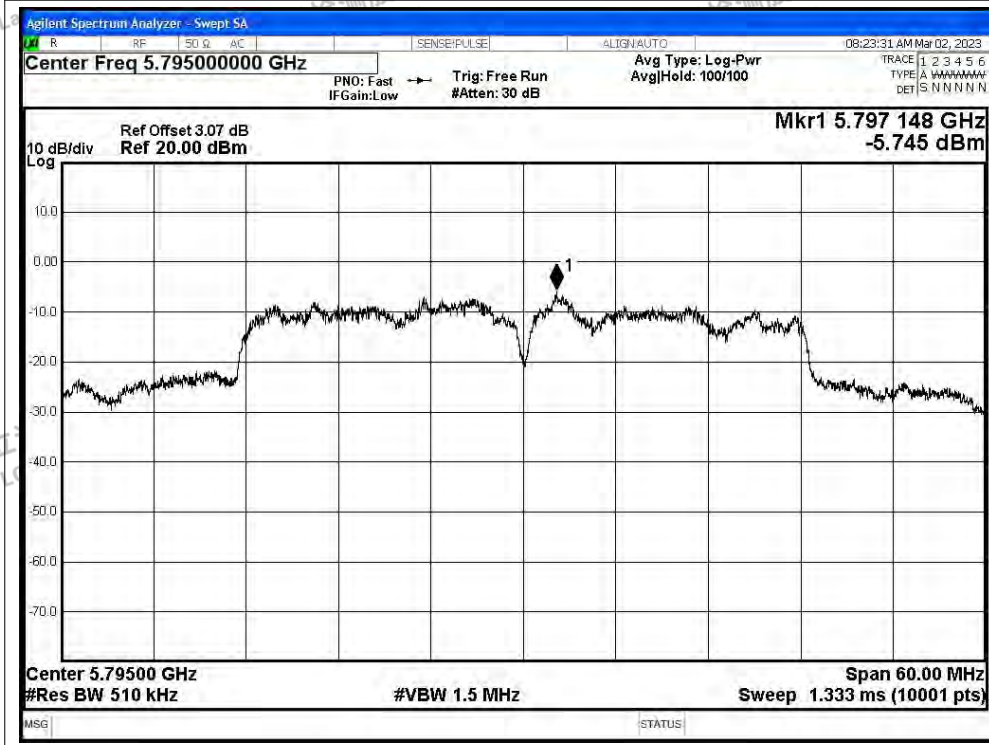




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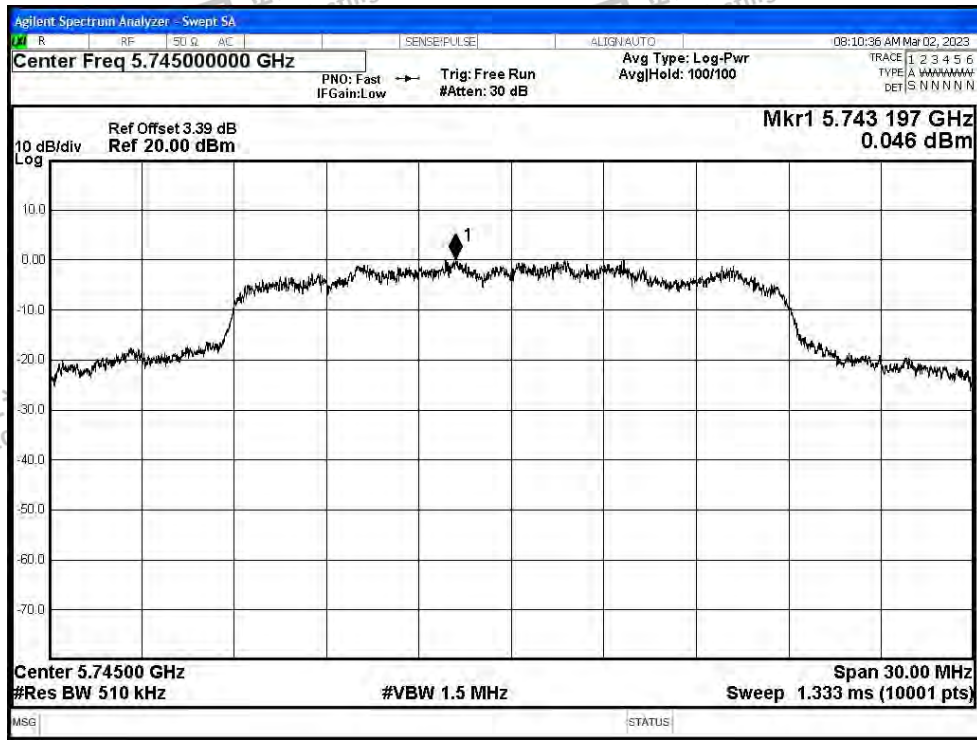
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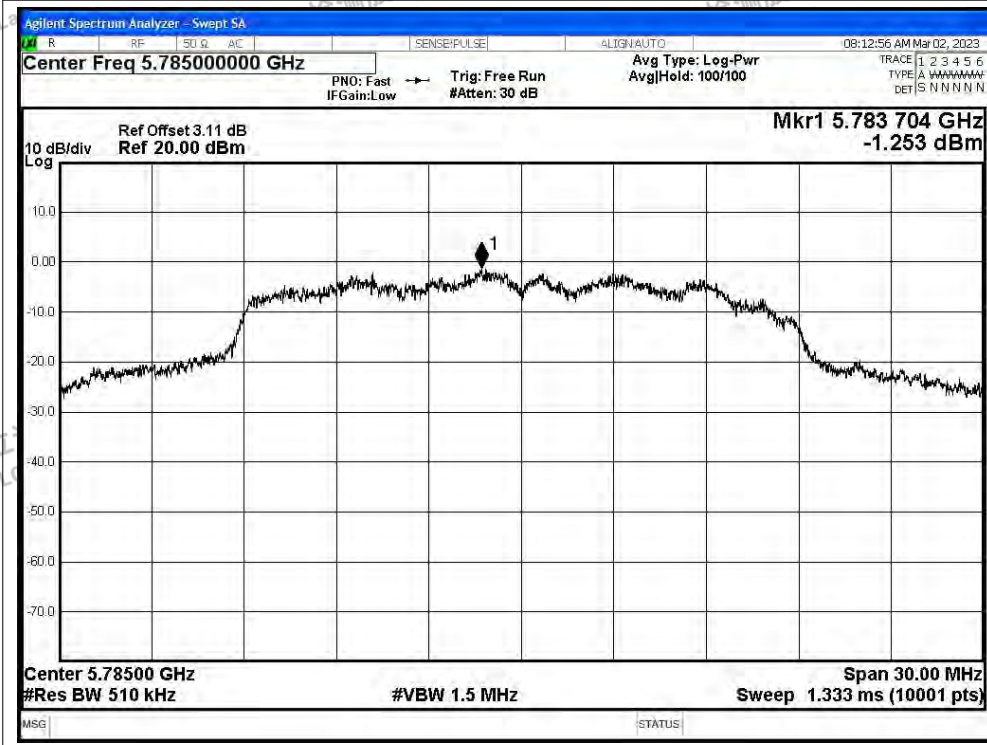




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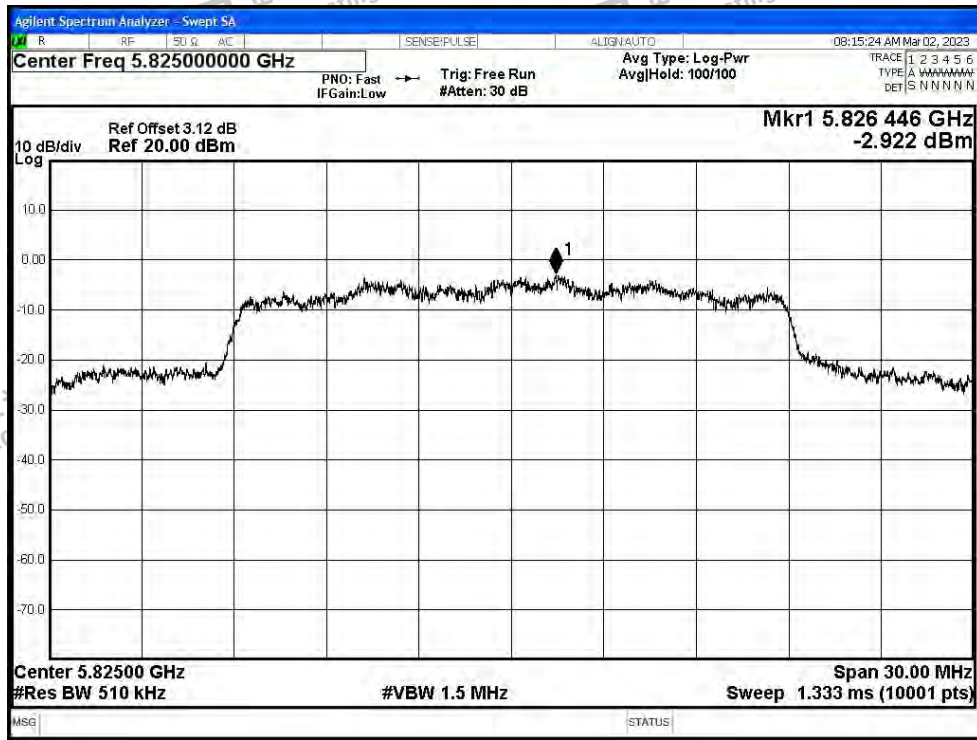


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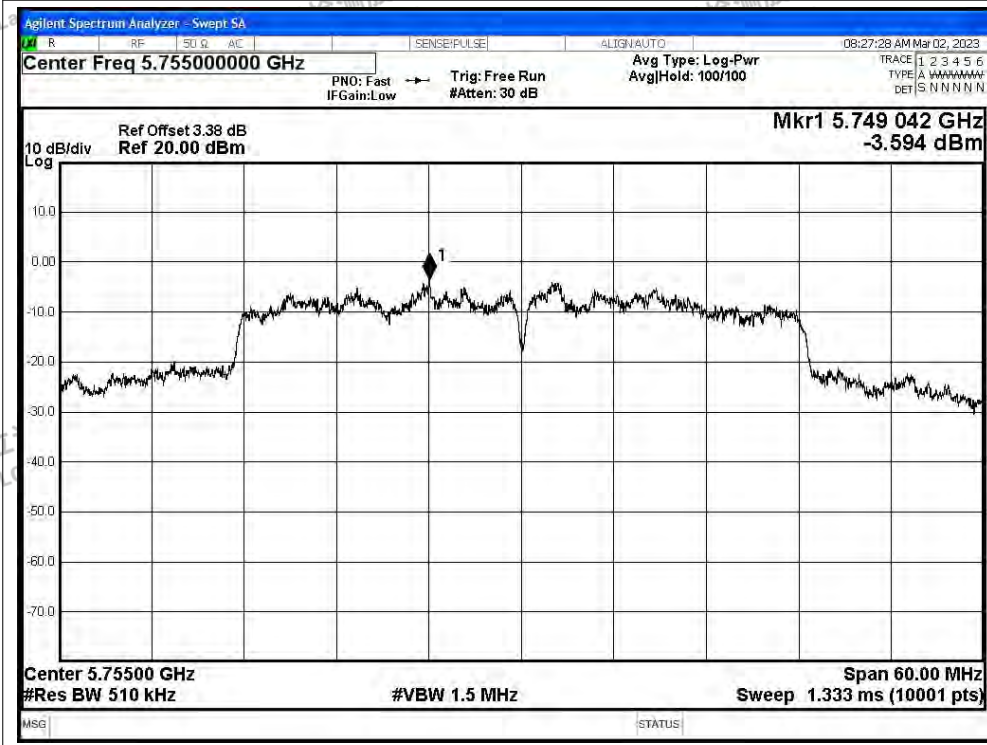




PSD NVNT ac20 5825MHz Ant1

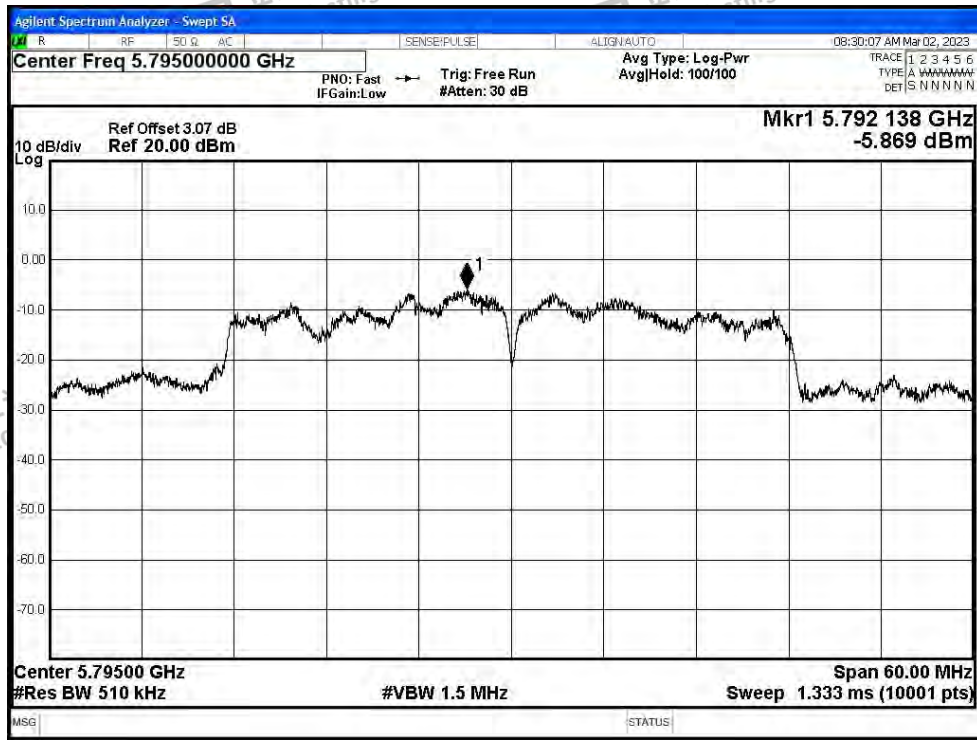


PSD NVNT ac40 5755MHz Ant1





PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

