Appendix B for 5GWIFI Test Data

Product Name: Car multimedia player

Test Model: D2WC7

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	54%
ATM Pressure:	101.2 kPa
Test Engineer:	Chris Liu
Supervised by:	Ryan.CJ

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B.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	94.99	0.22	0.48
NVNT	a	5785	Ant1	92.31	0.35	0.48
NVNT	a	5825	Ant1	96.59	0.15	0.48
NVNT	n20	5745	Ant1	92.53	0.34	0.52
NVNT	n20	5785	Ant1	95.91	0.18	0.52
NVNT	n20	5825	Ant1	98.11	0	0.52
NVNT	n40	5755	Ant1	95.82	0.19	0.48
NVNT	n40	5795	Ant1	97.23	0.12	0.52
NVNT	ac20	5745	Ant1	92.57	0.34	0.52
NVNT	ac20	5785	Ant1	95.08	0.22	0.52
NVNT	ac20	5825	Ant1	95.45	0.2	0.52
NVNT	ac40	5755	Ant1	98.12	0	0.52
NVNT	ac40	5795	Ant1	92.31	0.35	0.48
NVNT	ac80	5775	Ant1	97.12	0.13	0.52

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Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

Duty Cycle NVNT a 5785MHz Ant1

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Duty Cycle NVNT a 5825MHz Ant1

Duty Cycle NVNT n20 5745MHz Ant1

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Duty Cycle NVNT n20 5785MHz Ant1

Duty Cycle NVNT n20 5825MHz Ant1

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Duty Cycle NVNT n40 5755MHz Ant1

Duty Cycle NVNT n40 5795MHz Ant1

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Duty Cycle NVNT ac20 5745MHz Ant1

Duty Cycle NVNT ac20 5785MHz Ant1

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Duty Cycle NVNT ac20 5825MHz Ant1

Duty Cycle NVNT ac40 5755MHz Ant1

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Duty Cycle NVNT ac40 5795MHz Ant1

Duty Cycle NVNT ac80 5775MHz Ant1

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B.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	6.17	0.22	6.39	28.88	Pass
NVNT	a	5785	Ant1	6.5	0.35	6.85	28.88	Pass
NVNT	a	5825	Ant1	5.26	0.15	5.41	28.88	Pass
NVNT	n20	5745	Ant1	6.3	0.34	6.64	28.88	Pass
NVNT	n20	5785	Ant1	6.43	0.18	6.61	28.88	Pass
NVNT	n20	5825	Ant1	5.25	0	5.25	28.88	Pass
NVNT	n40	5755	Ant1	6.44	0.19	6.63	28.88	Pass
NVNT	n40	5795	Ant1	6.41	0.12	6.53	28.88	Pass
NVNT	ac20	5745	Ant1	6.32	0.34	6.66	28.88	Pass
NVNT	ac20	5785	Ant1	6.42	0.22	6.64	28.88	Pass
NVNT	ac20	5825	Ant1	5.27	0.2	5.47	28.88	Pass
NVNT	ac40	5755	Ant1	6.58	0	6.58	28.88	Pass
NVNT	ac40	5795	Ant1	6.34	0.35	6.69	28.88	Pass
NVNT	ac80	5775	Ant1	6.29	0.13	6.42	28.88	Pass

Note: Limit =30-1.12=28.88 dBm

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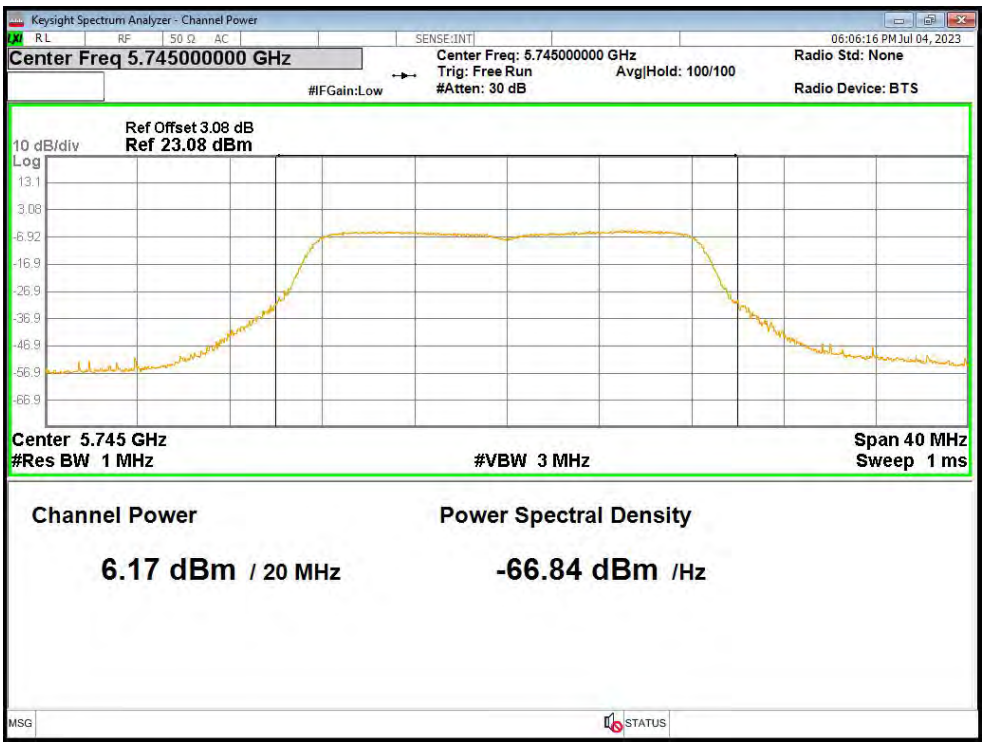
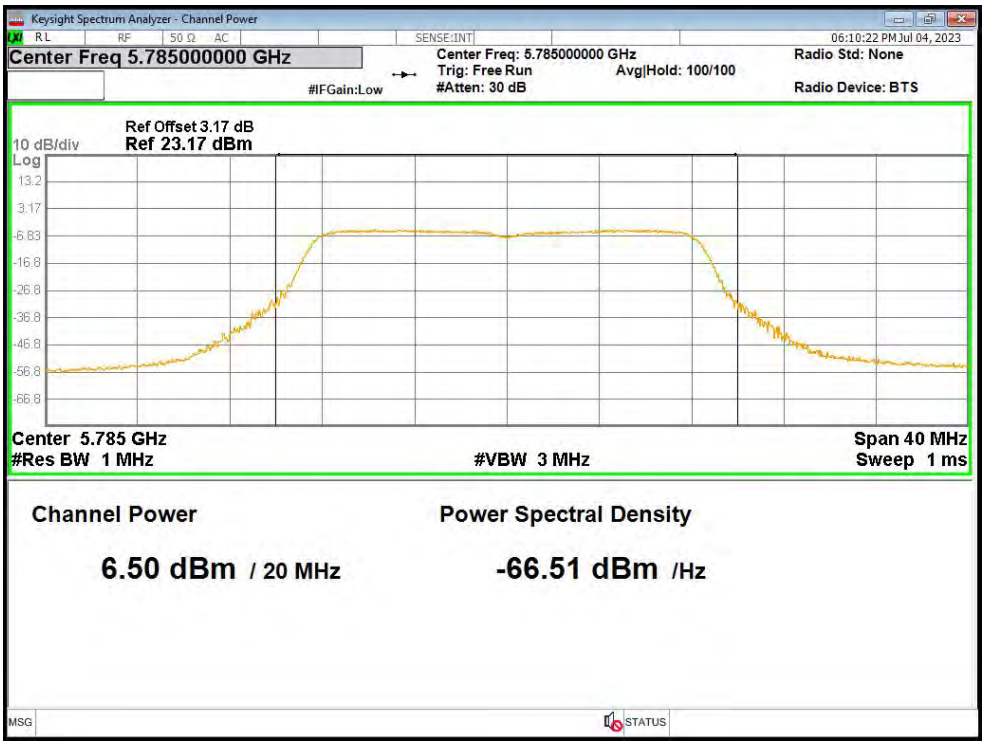
Test Graphs

Power NVNT a 5745MHz Ant1



Power NVNT a 5785MHz Ant1



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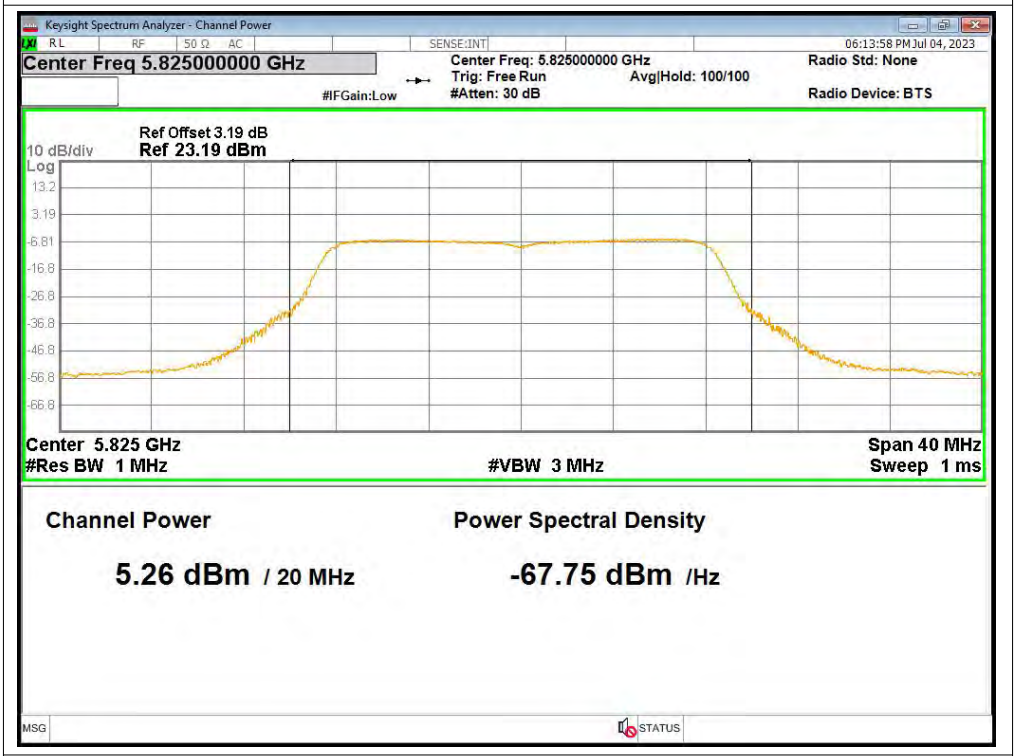
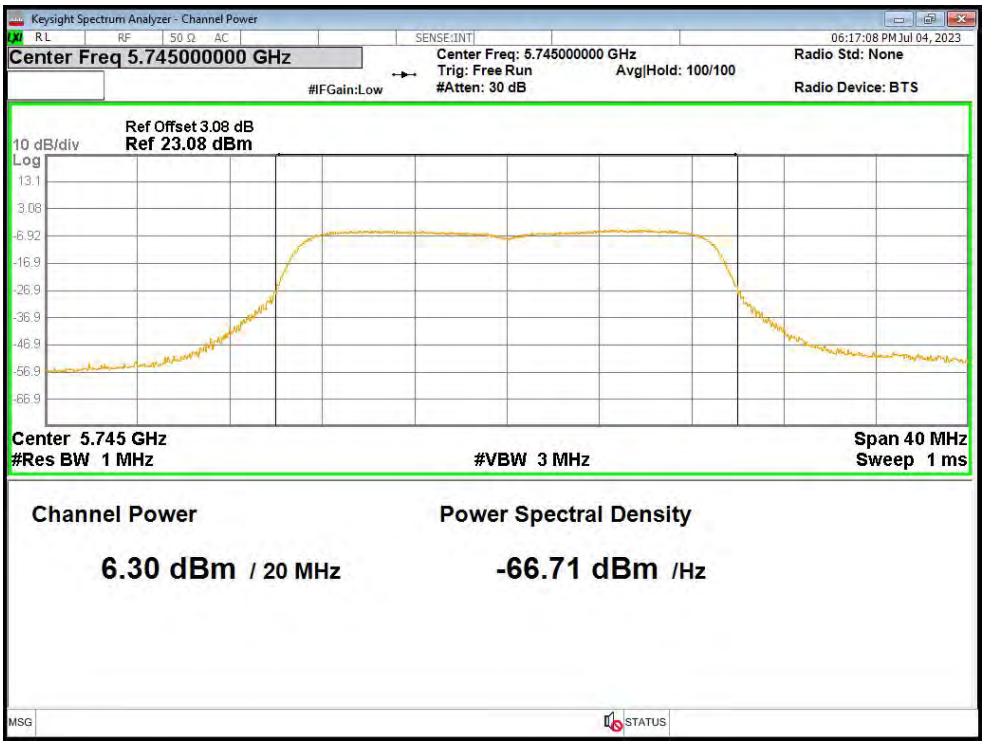
Power NVNT a 5825MHz Ant1



Power NVNT n20 5745MHz Ant1



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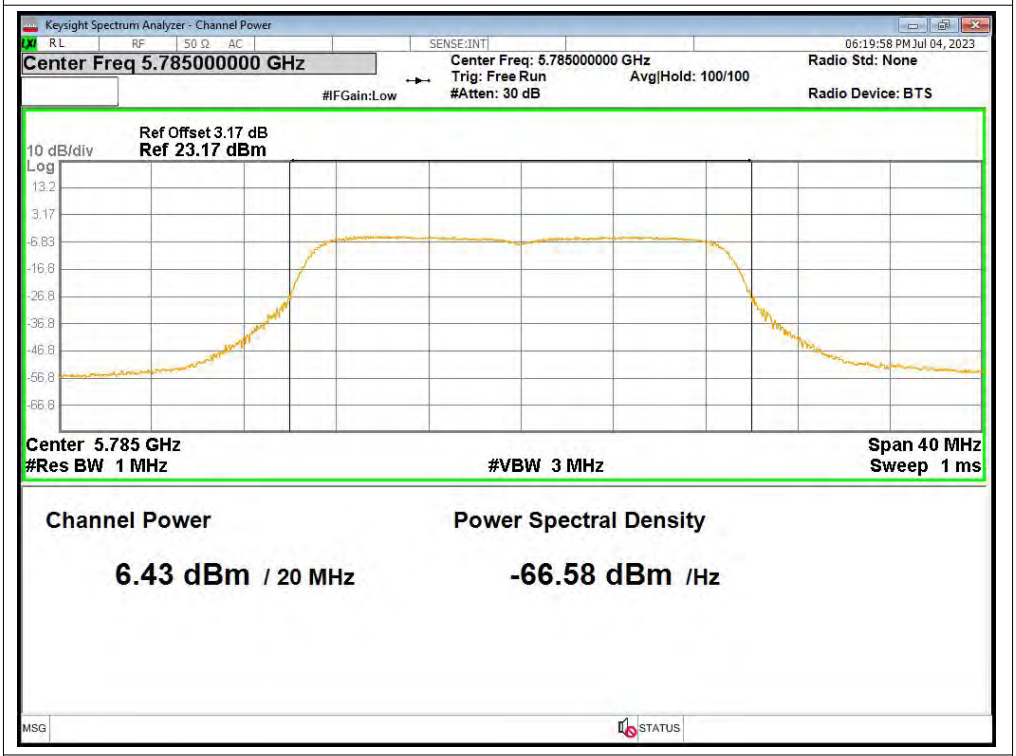
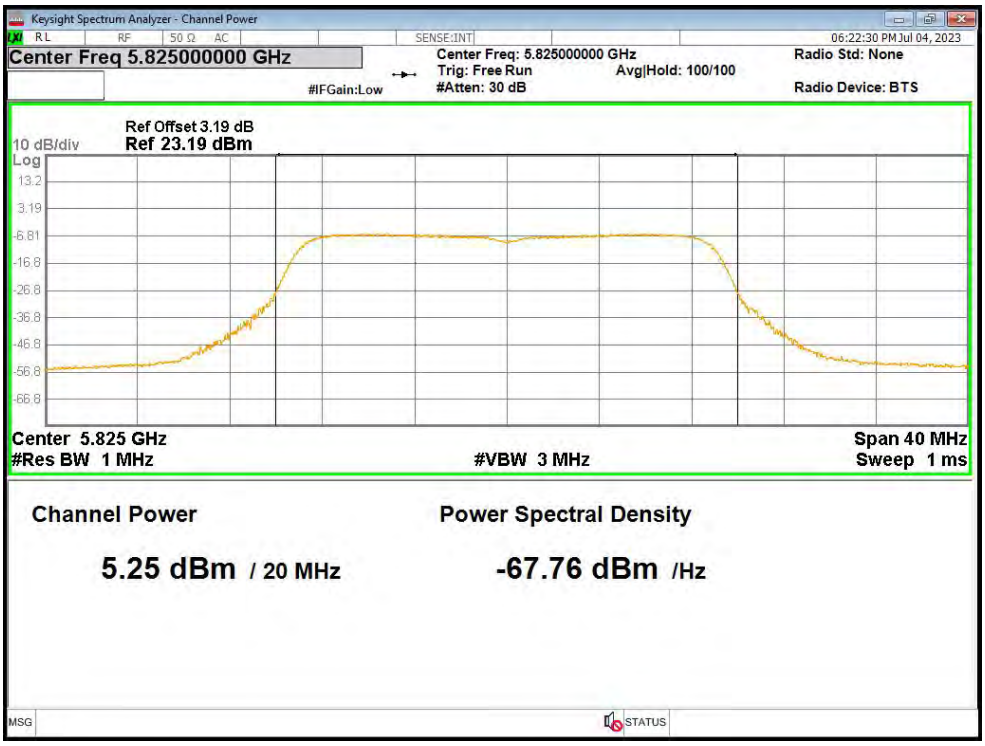
Power NVNT n20 5785MHz Ant1



Power NVNT n20 5825MHz Ant1



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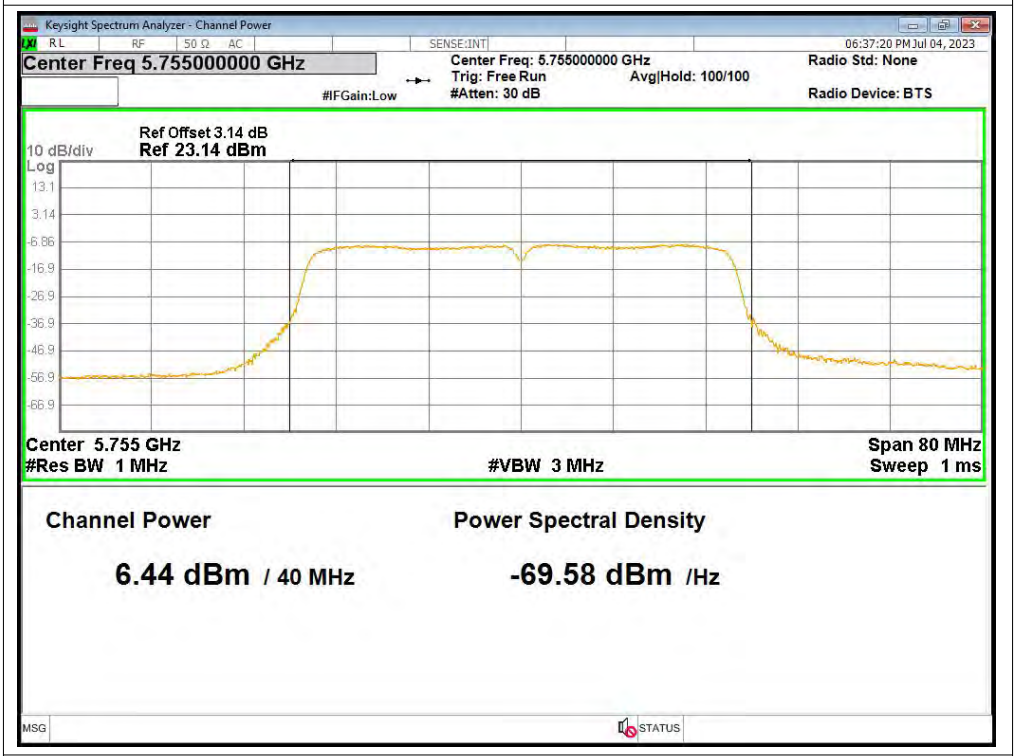
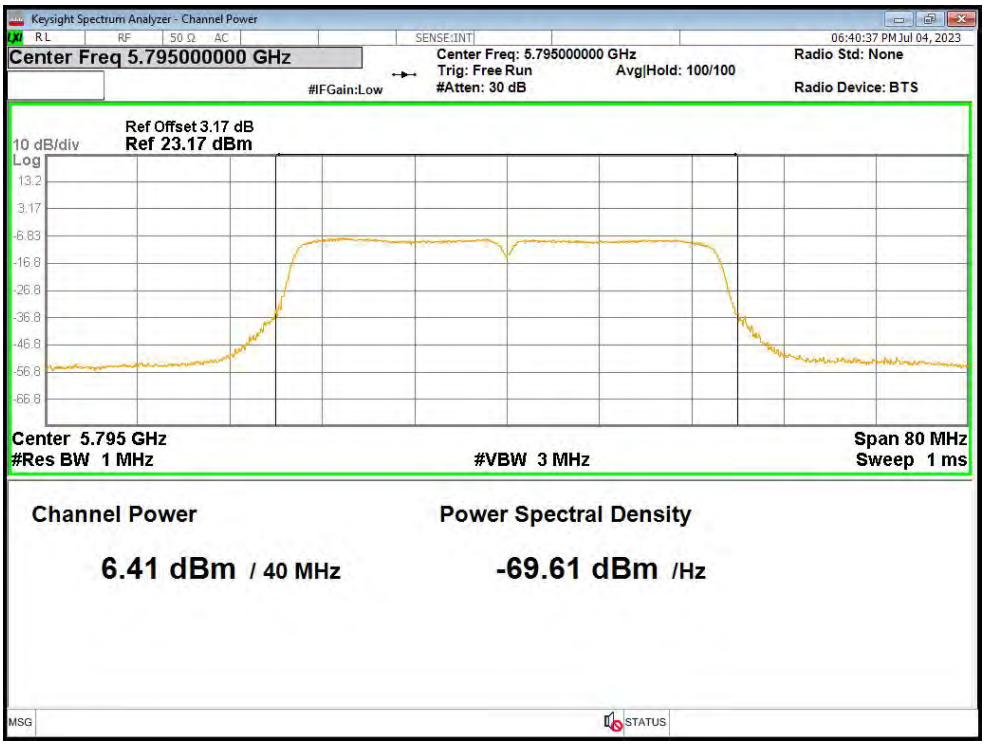
Power NVNT n40 5755MHz Ant1



Power NVNT n40 5795MHz Ant1



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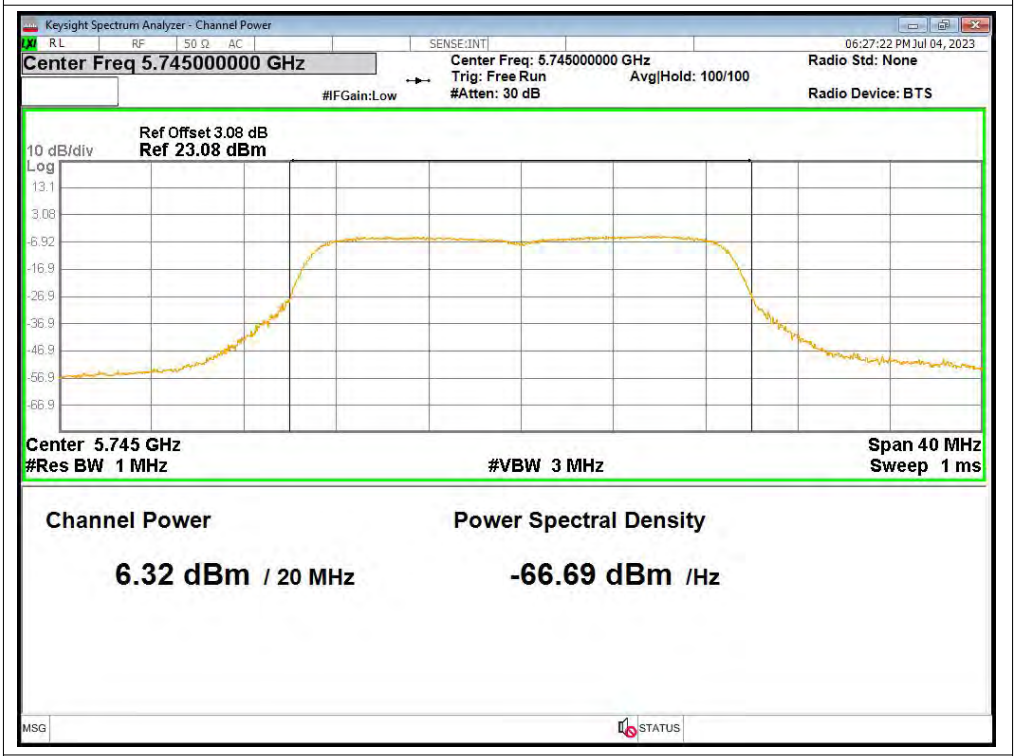
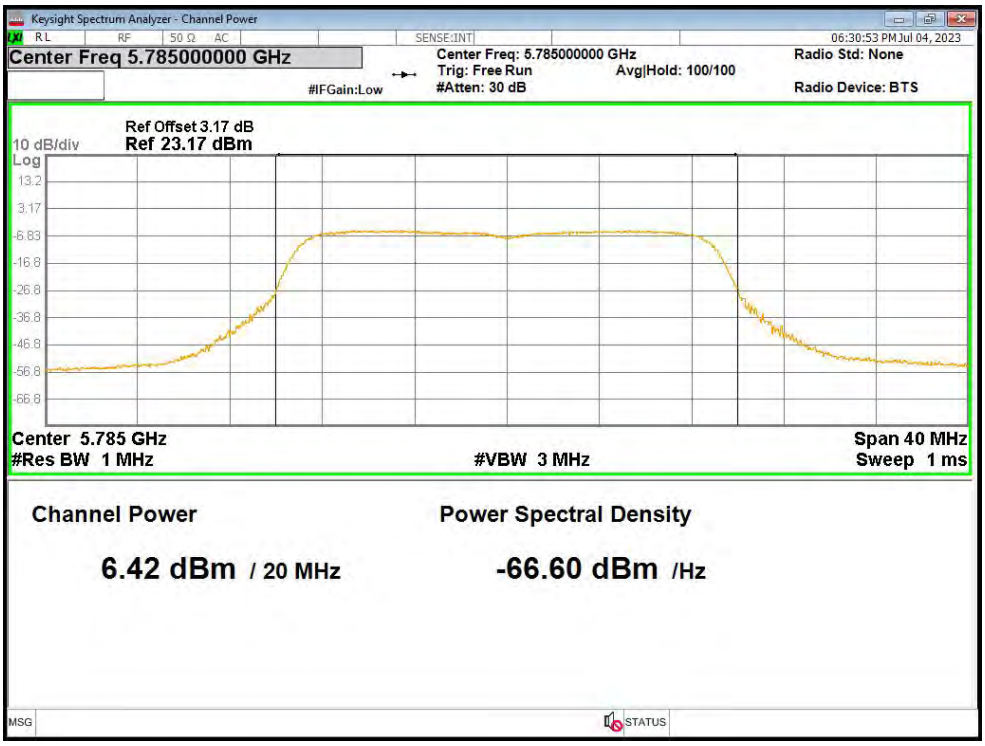
Power NVNT ac20 5745MHz Ant1



Power NVNT ac20 5785MHz Ant1



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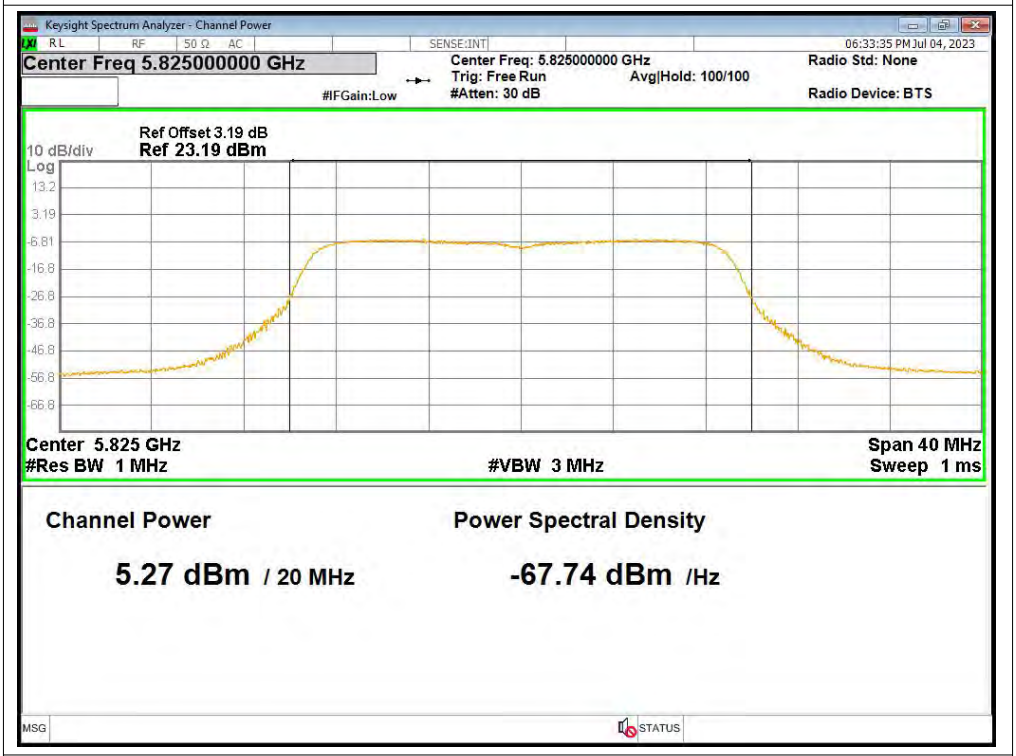
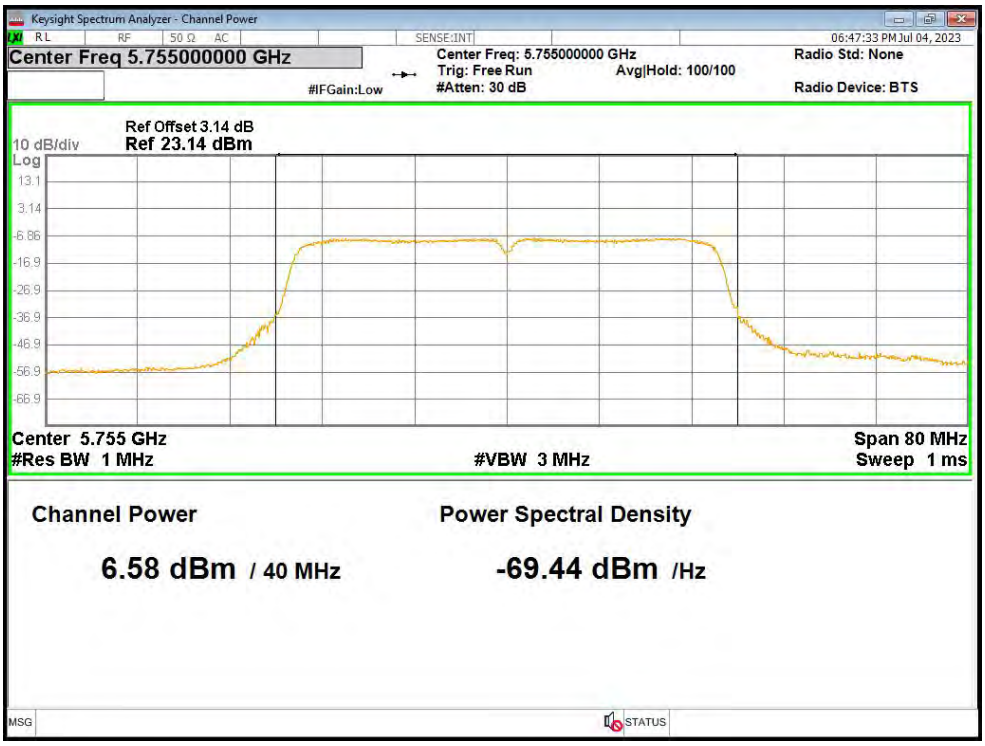
Power NVNT ac20 5825MHz Ant1



Power NVNT ac40 5755MHz Ant1



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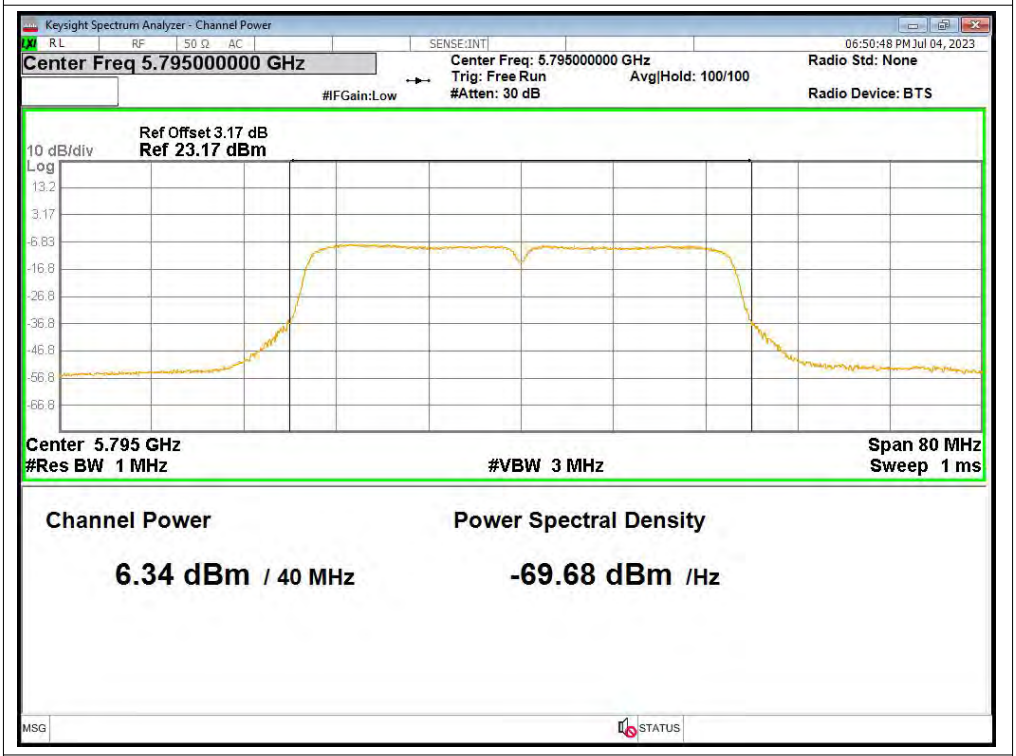
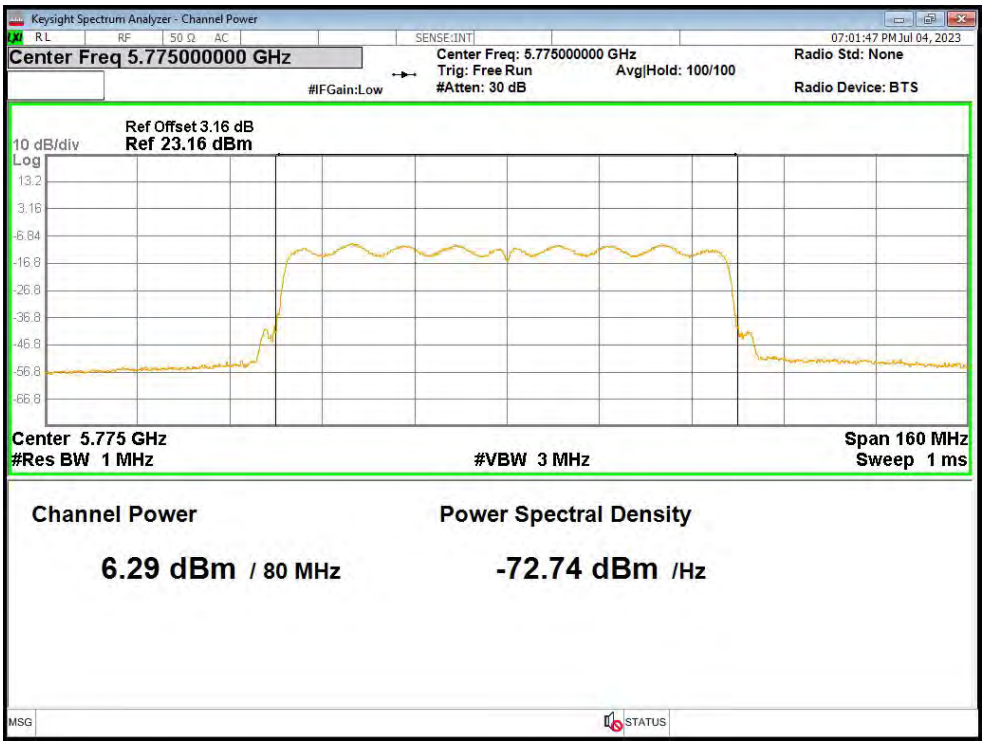
Power NVNT ac40 5795MHz Ant1



Power NVNT ac80 5775MHz Ant1



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B.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.355	0.5	Pass
NVNT	a	5785	Ant1	16.322	0.5	Pass
NVNT	a	5825	Ant1	16.337	0.5	Pass
NVNT	n20	5745	Ant1	17.05	0.5	Pass
NVNT	n20	5785	Ant1	17.043	0.5	Pass
NVNT	n20	5825	Ant1	17.007	0.5	Pass
NVNT	n40	5755	Ant1	35.442	0.5	Pass
NVNT	n40	5795	Ant1	35.428	0.5	Pass
NVNT	ac20	5745	Ant1	16.904	0.5	Pass
NVNT	ac20	5785	Ant1	17.314	0.5	Pass
NVNT	ac20	5825	Ant1	16.92	0.5	Pass
NVNT	ac40	5755	Ant1	35.112	0.5	Pass
NVNT	ac40	5795	Ant1	34.832	0.5	Pass
NVNT	ac80	5775	Ant1	75.135	0.5	Pass

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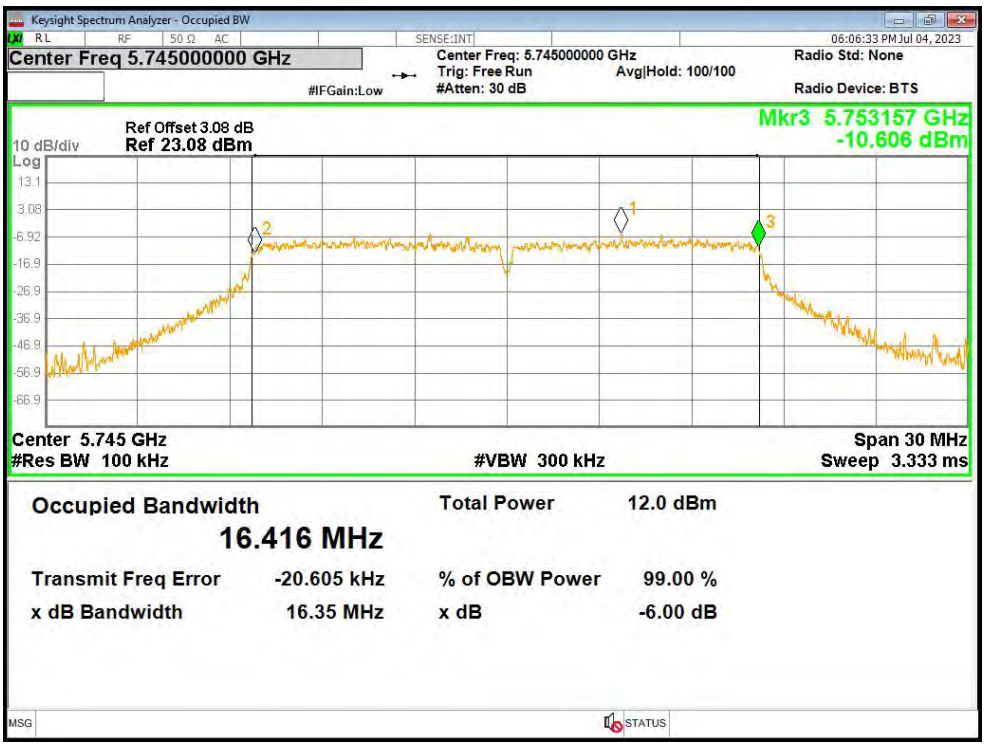
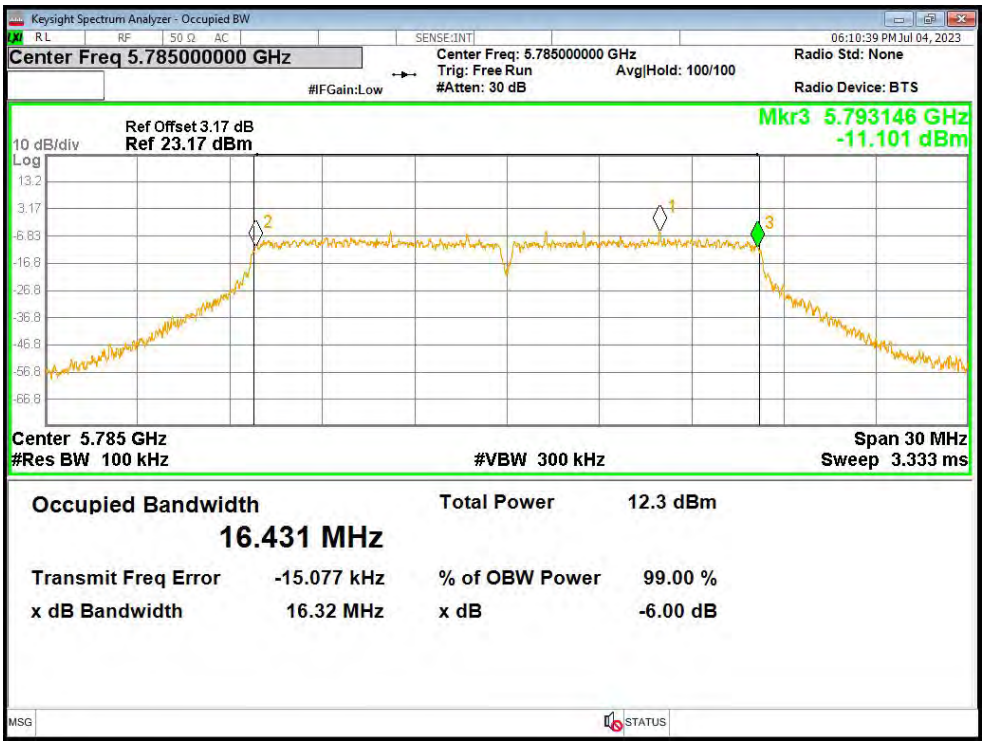
Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



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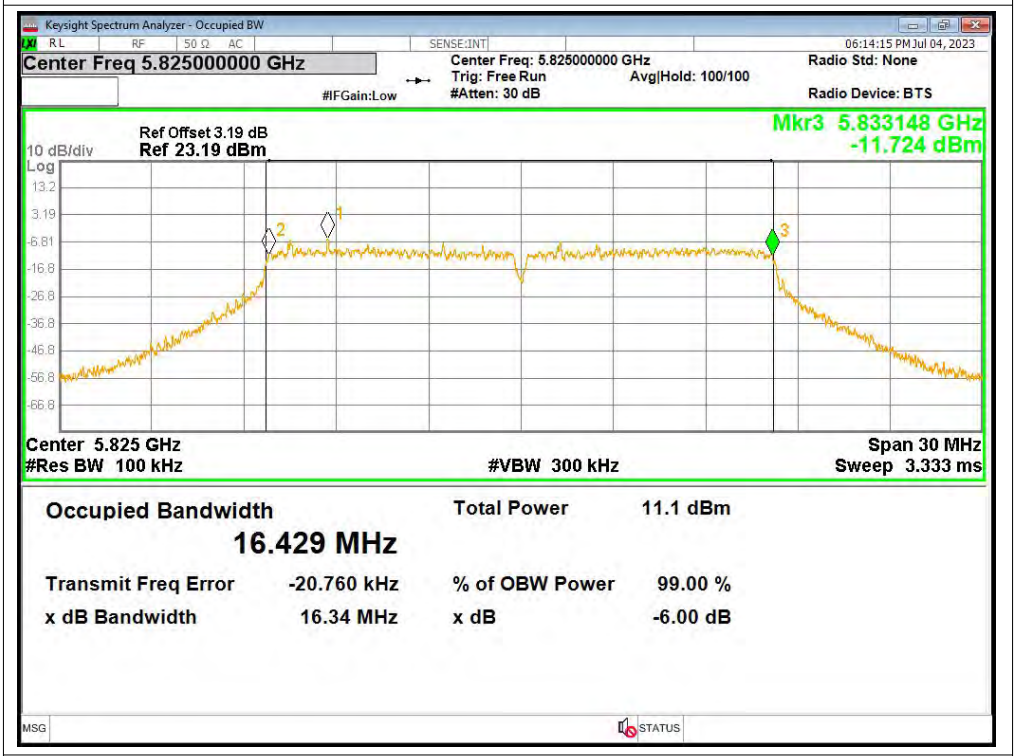
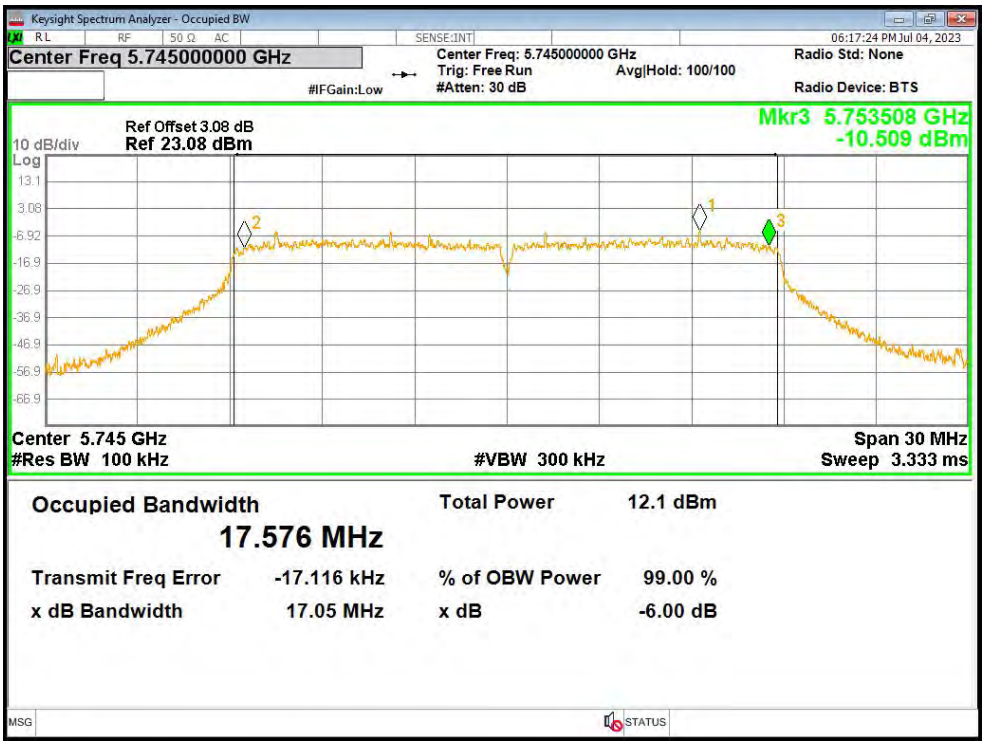
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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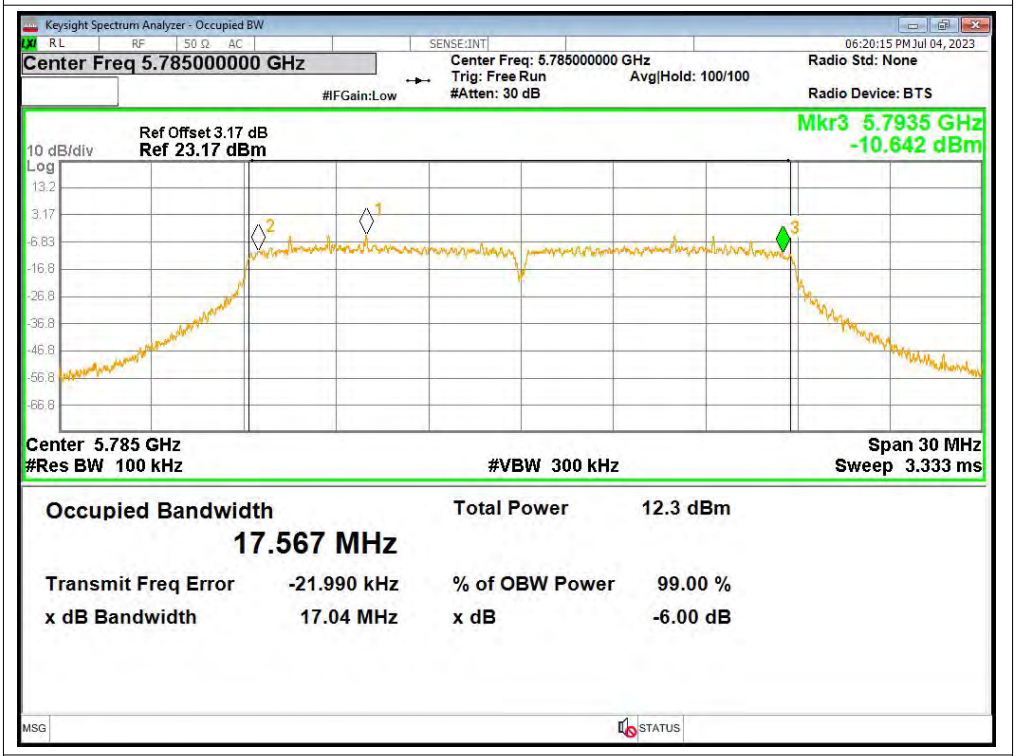
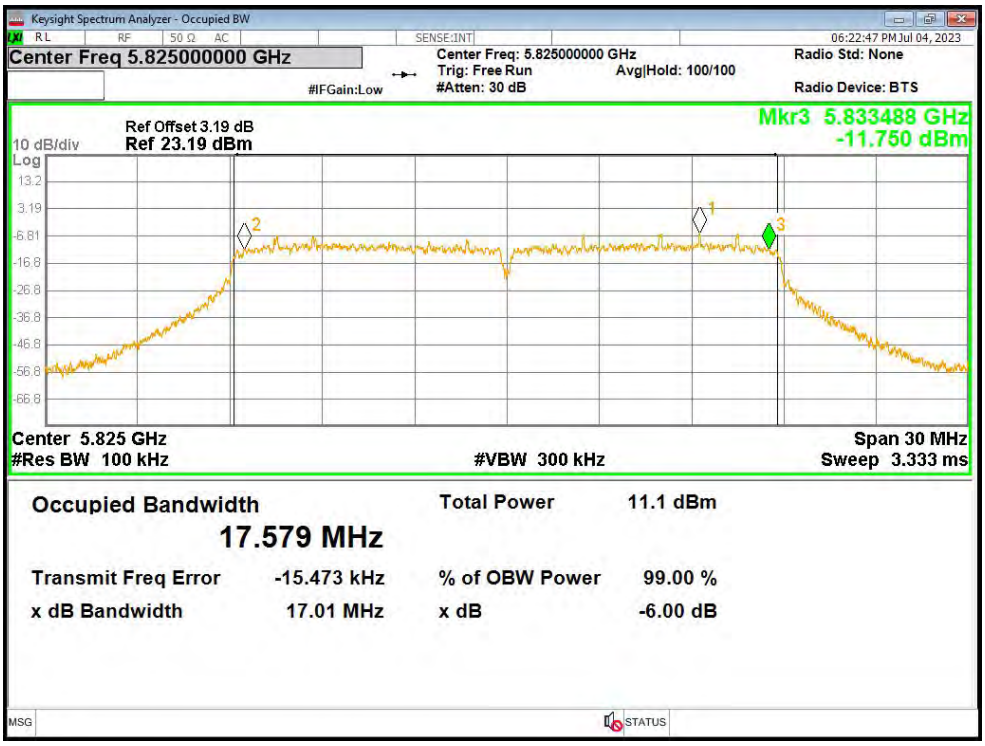
-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



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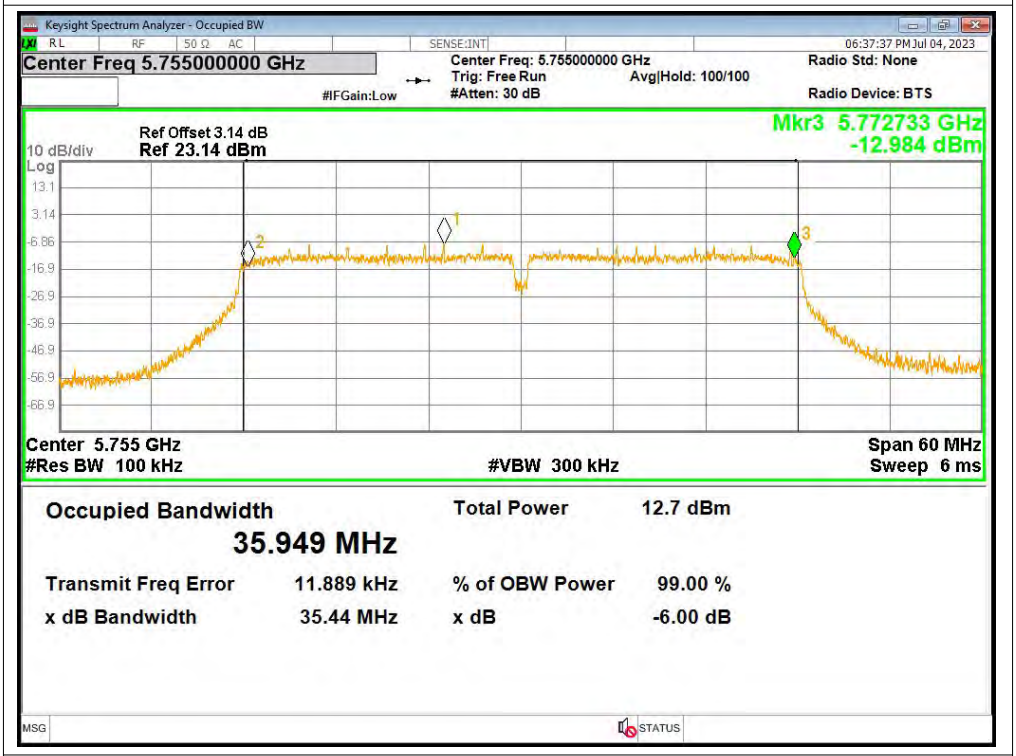
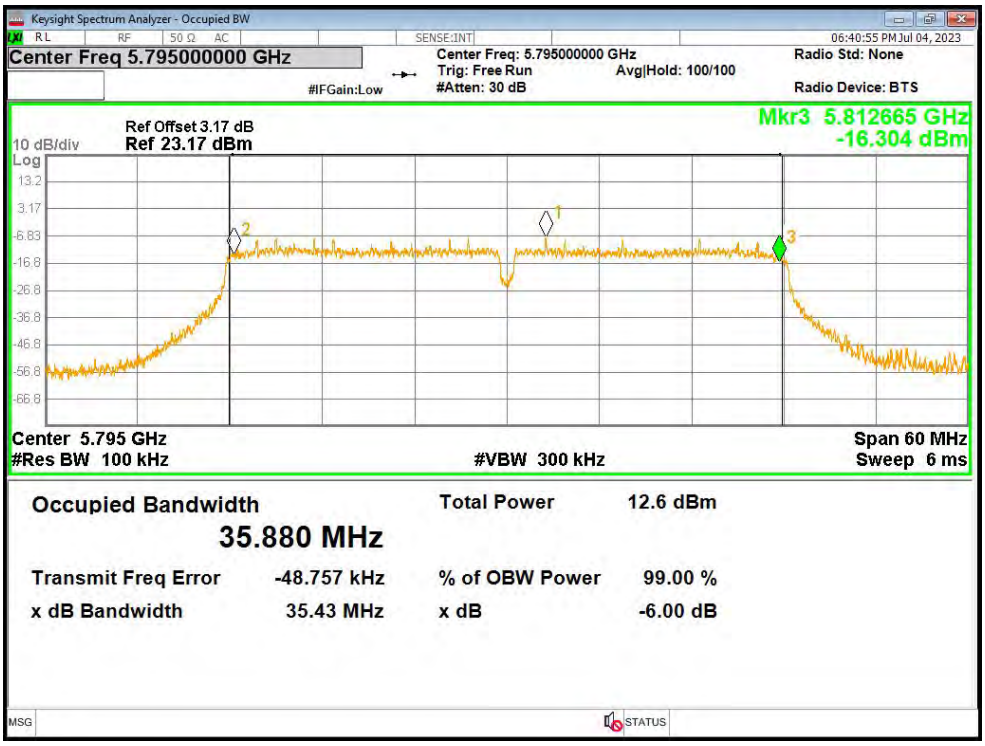
-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



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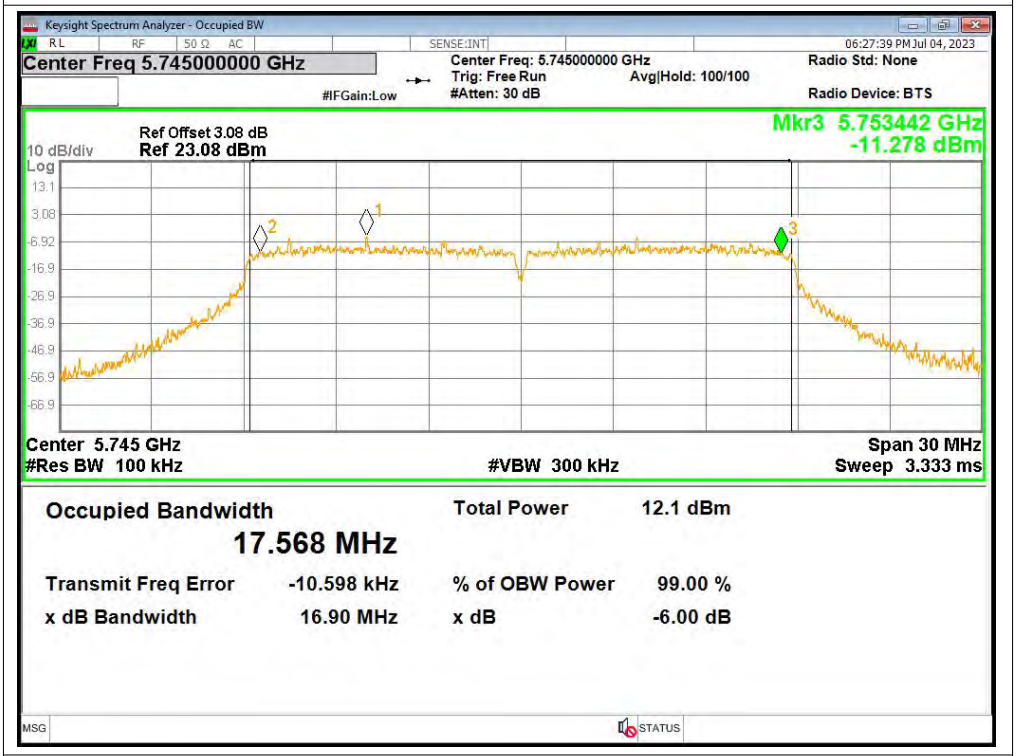
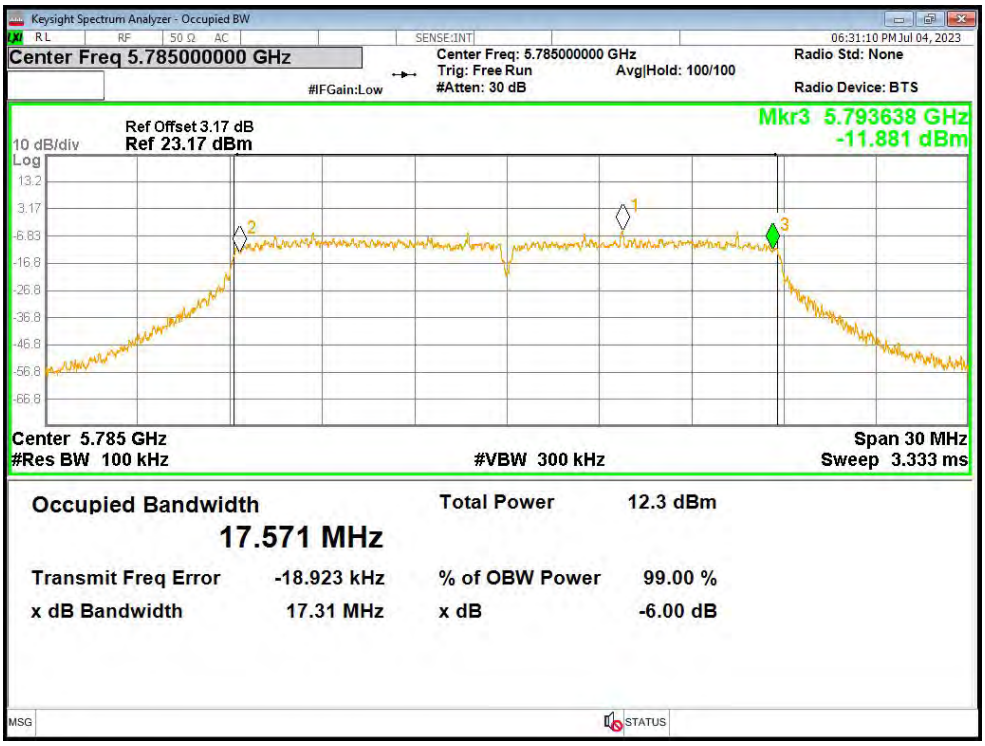
-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



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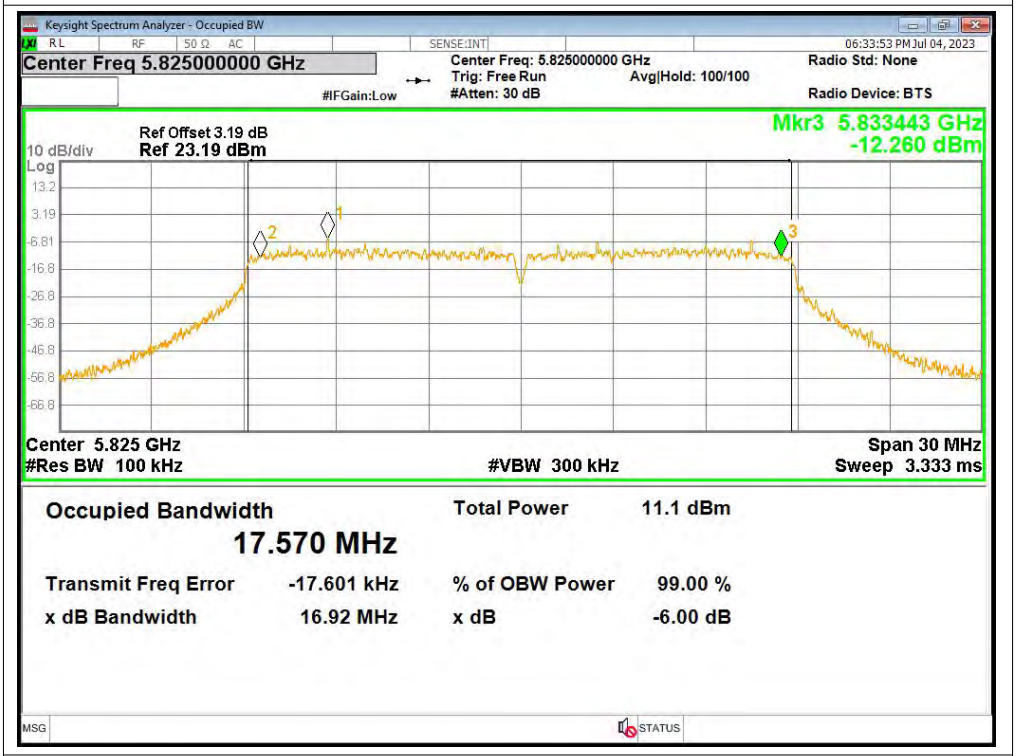
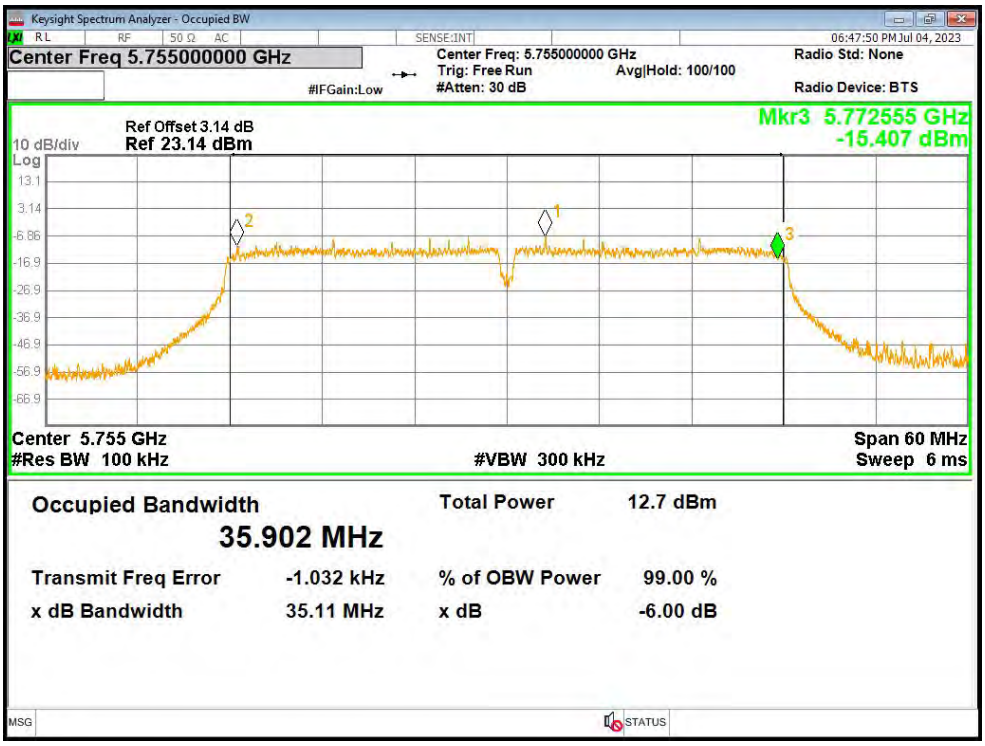
-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



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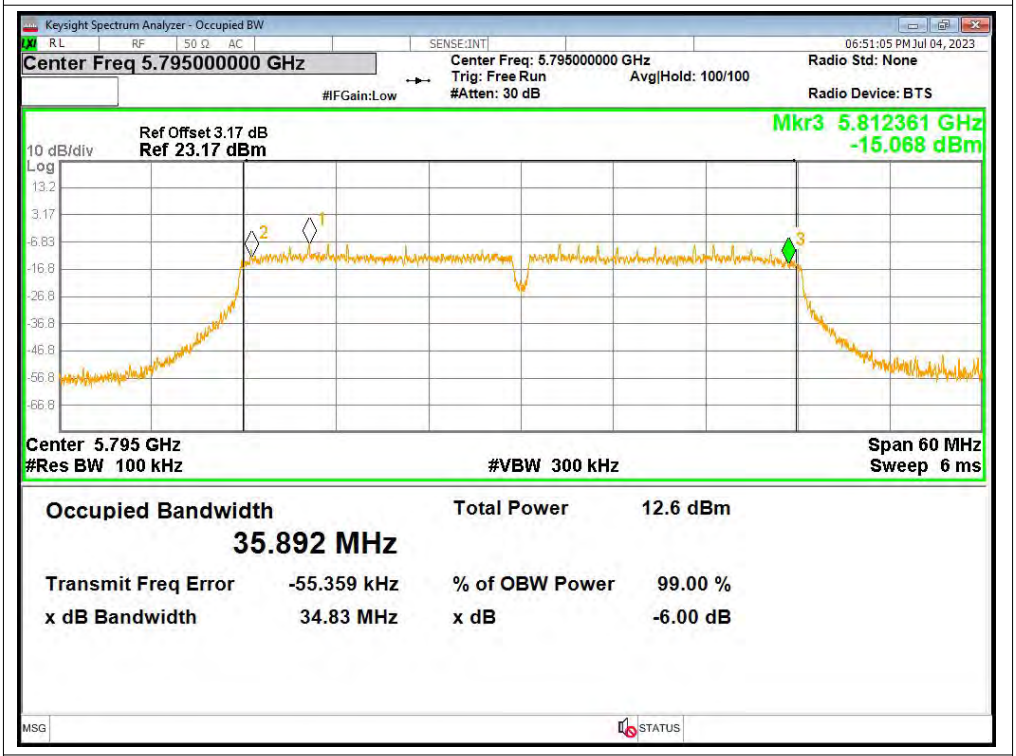
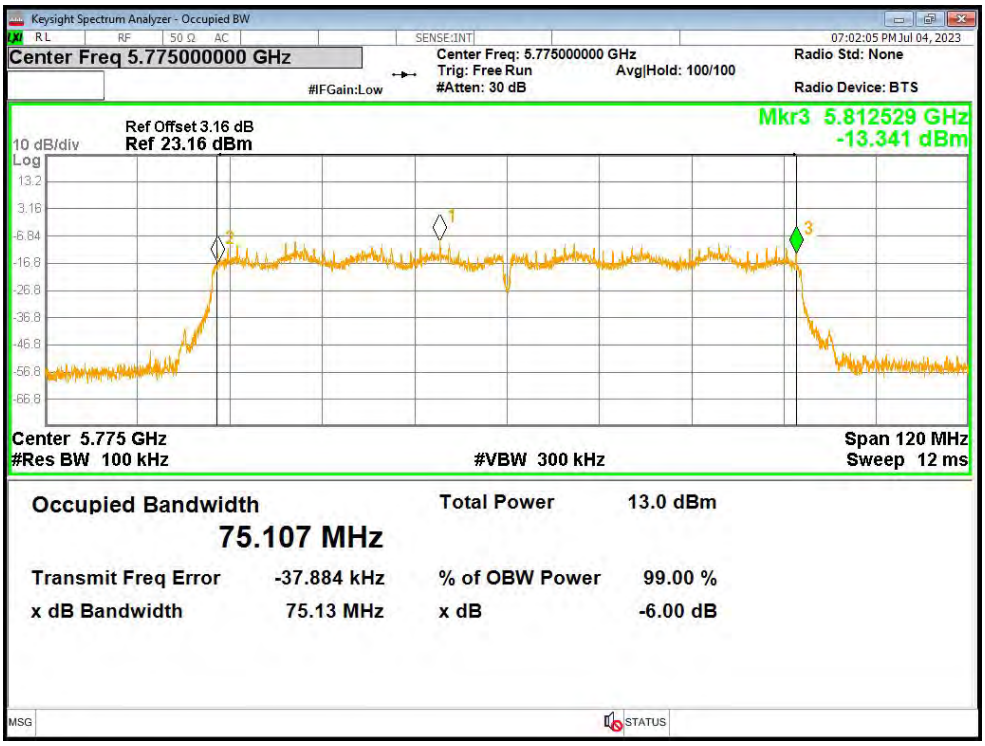
-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



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B.4 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.511
NVNT	a	5785	Ant1	16.497
NVNT	a	5825	Ant1	16.513
NVNT	n20	5745	Ant1	17.585
NVNT	n20	5785	Ant1	17.595
NVNT	n20	5825	Ant1	17.616
NVNT	n40	5755	Ant1	36.036
NVNT	n40	5795	Ant1	36.075
NVNT	ac20	5745	Ant1	17.59
NVNT	ac20	5785	Ant1	17.609
NVNT	ac20	5825	Ant1	17.621
NVNT	ac40	5755	Ant1	36.036
NVNT	ac40	5795	Ant1	36.087
NVNT	ac80	5775	Ant1	75.284

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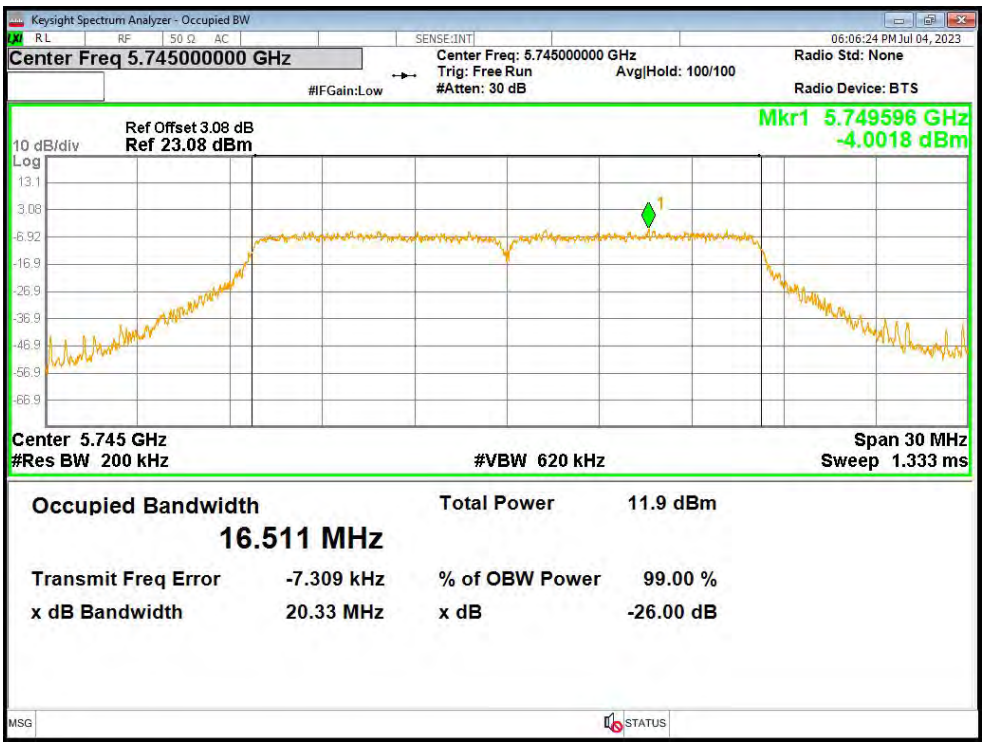
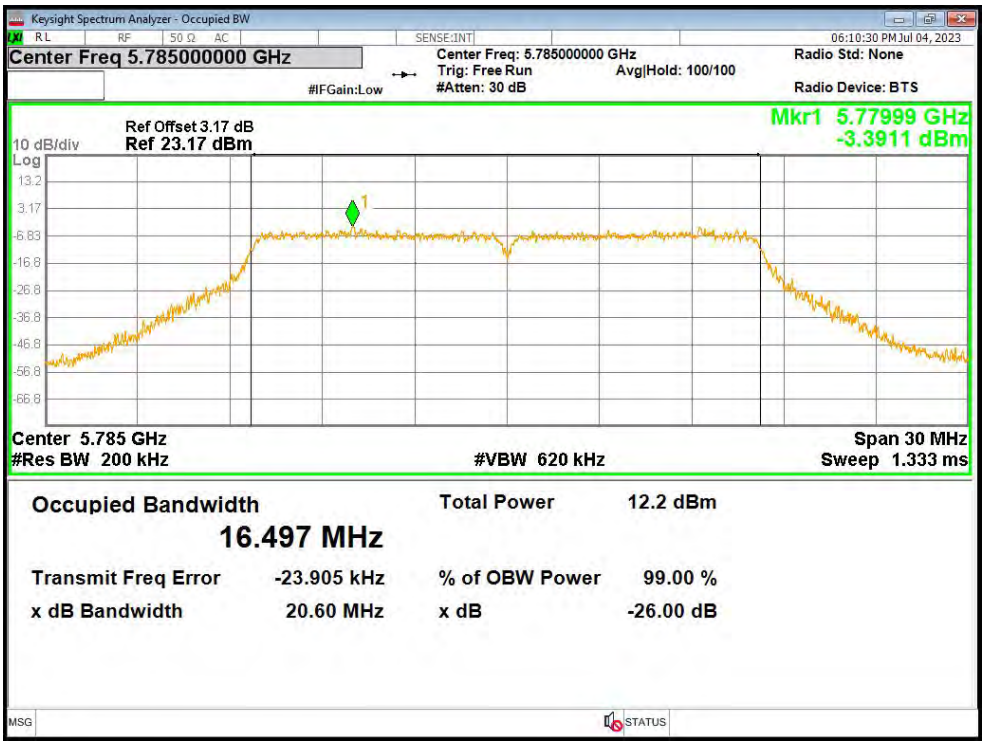
Test Graphs

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



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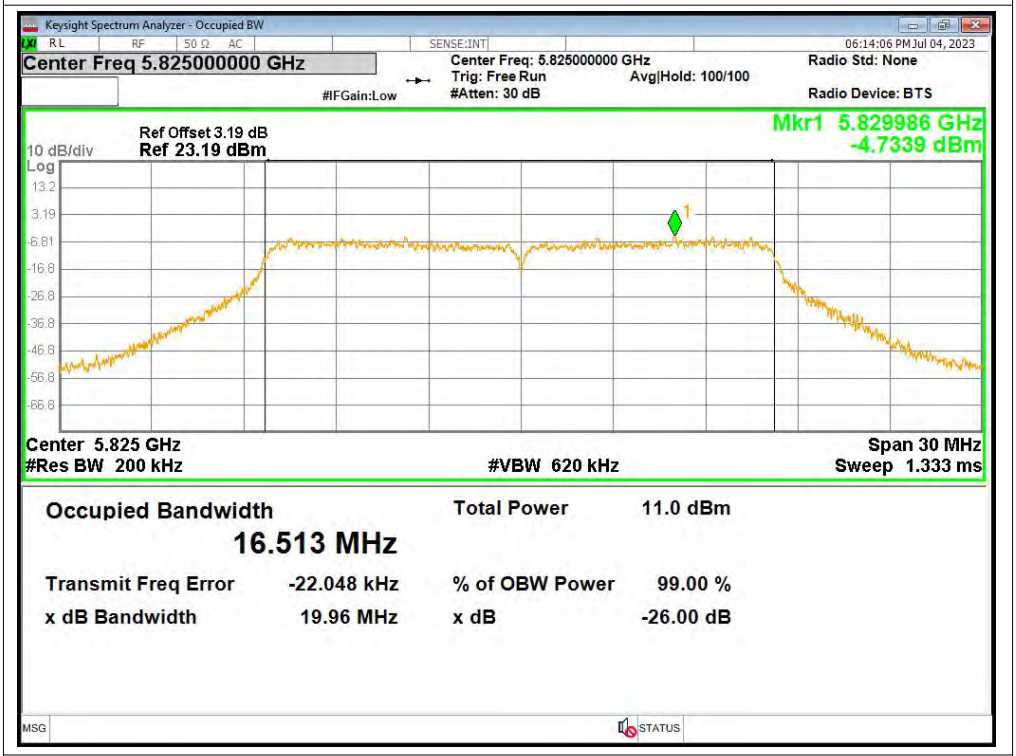
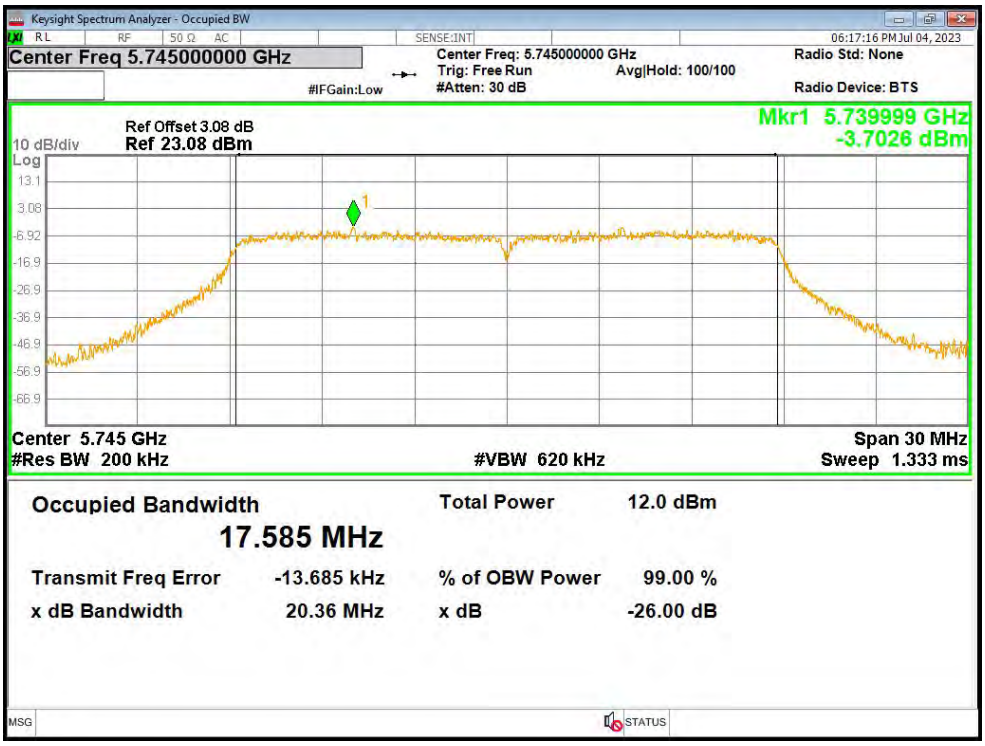
OBW NVNT a 5825MHz Ant1



OBW NVNT n20 5745MHz Ant1



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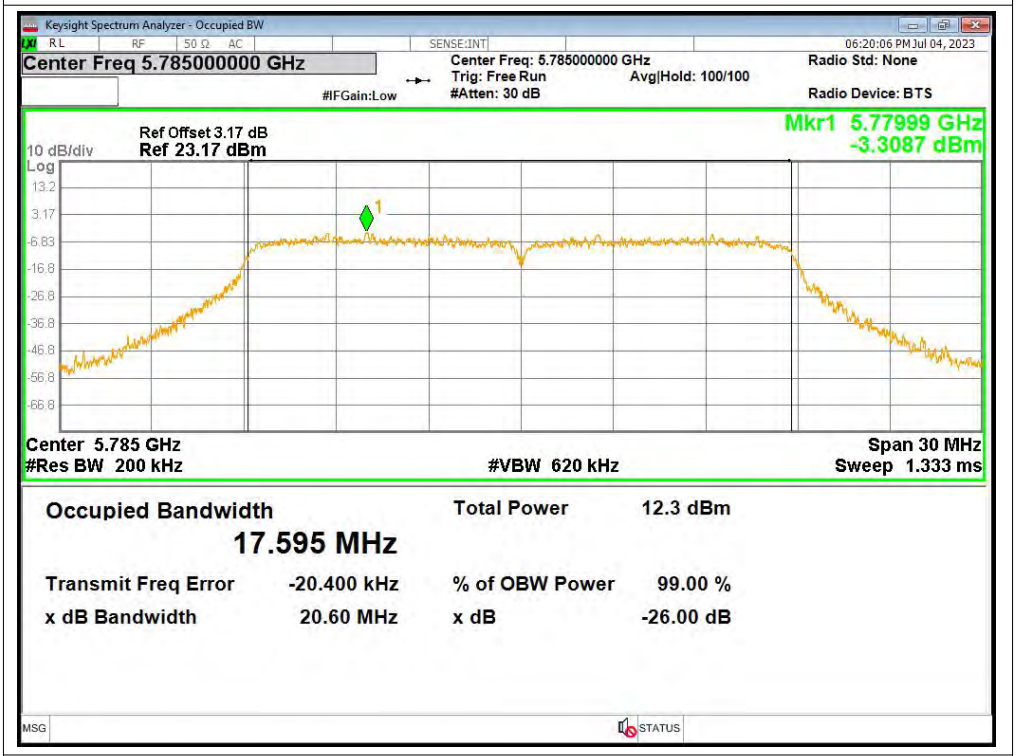
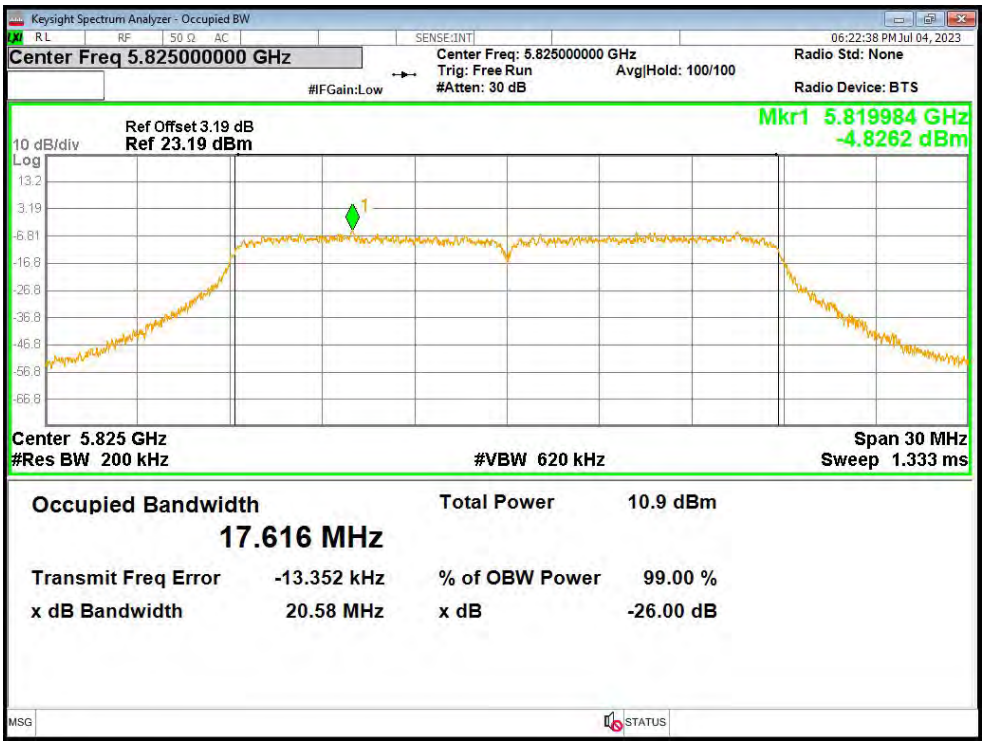
OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



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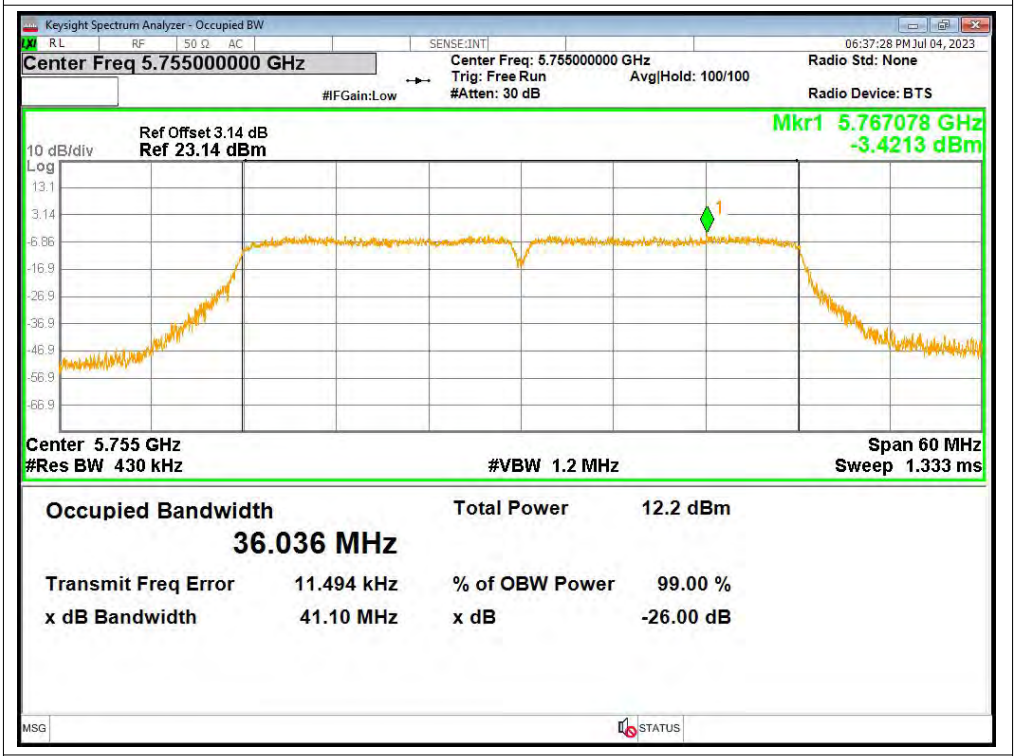
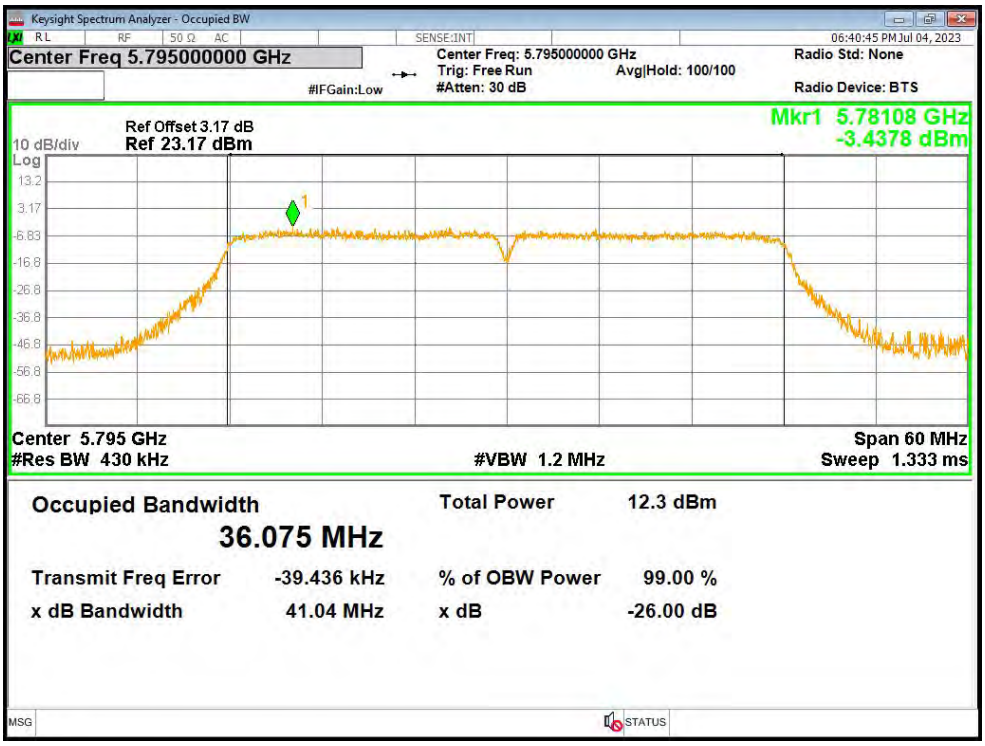
OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



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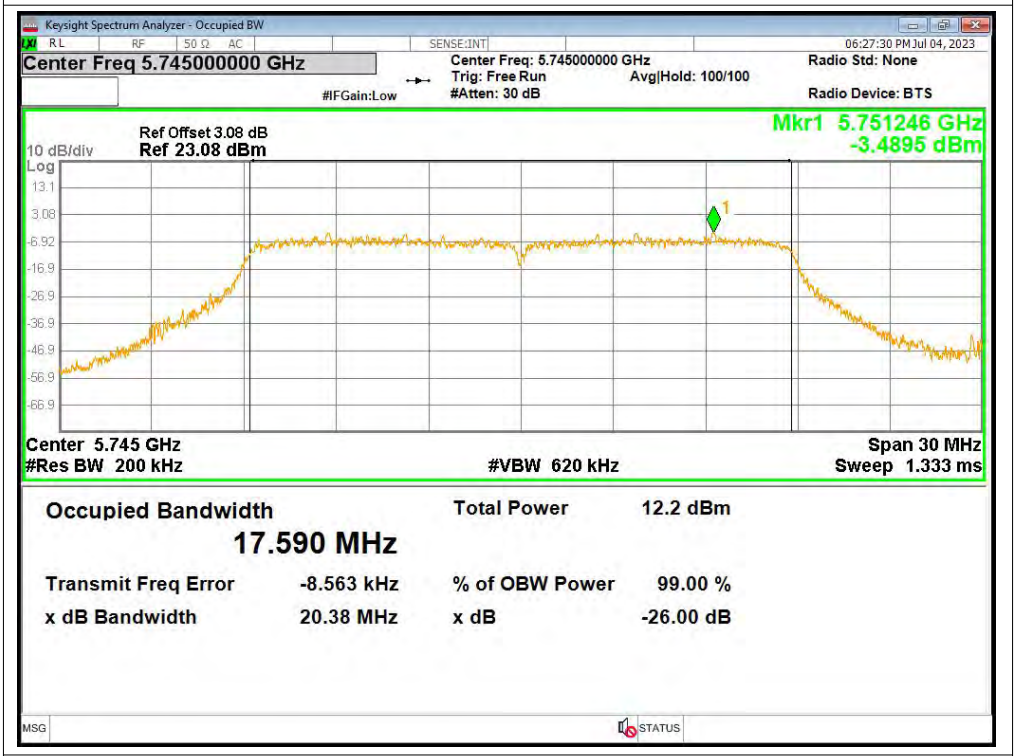
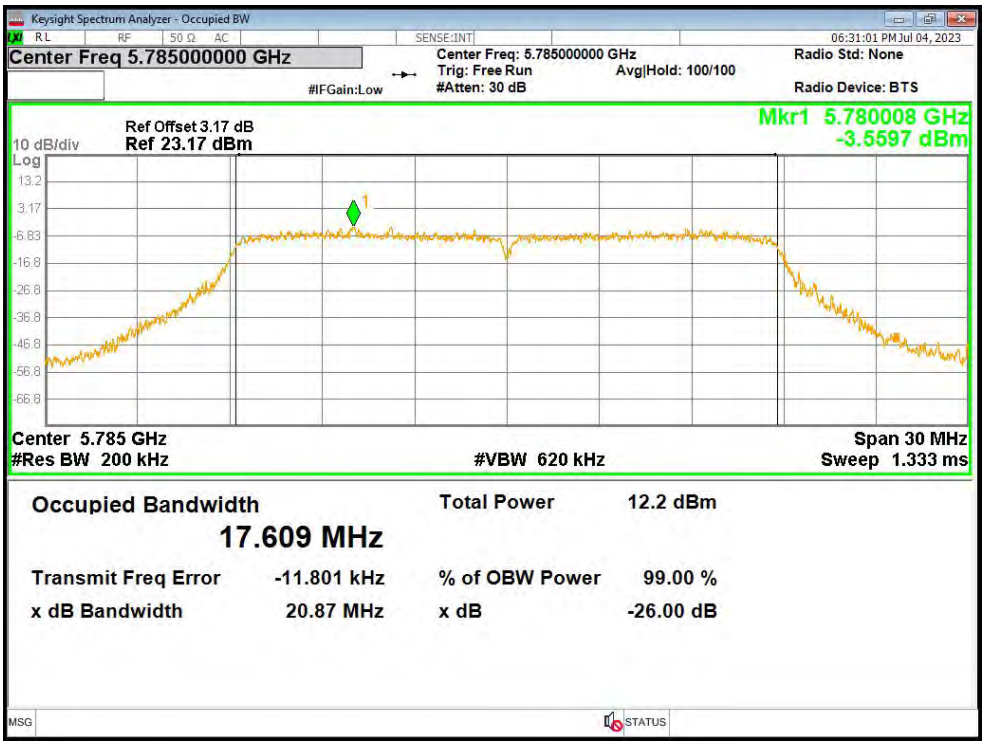
OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



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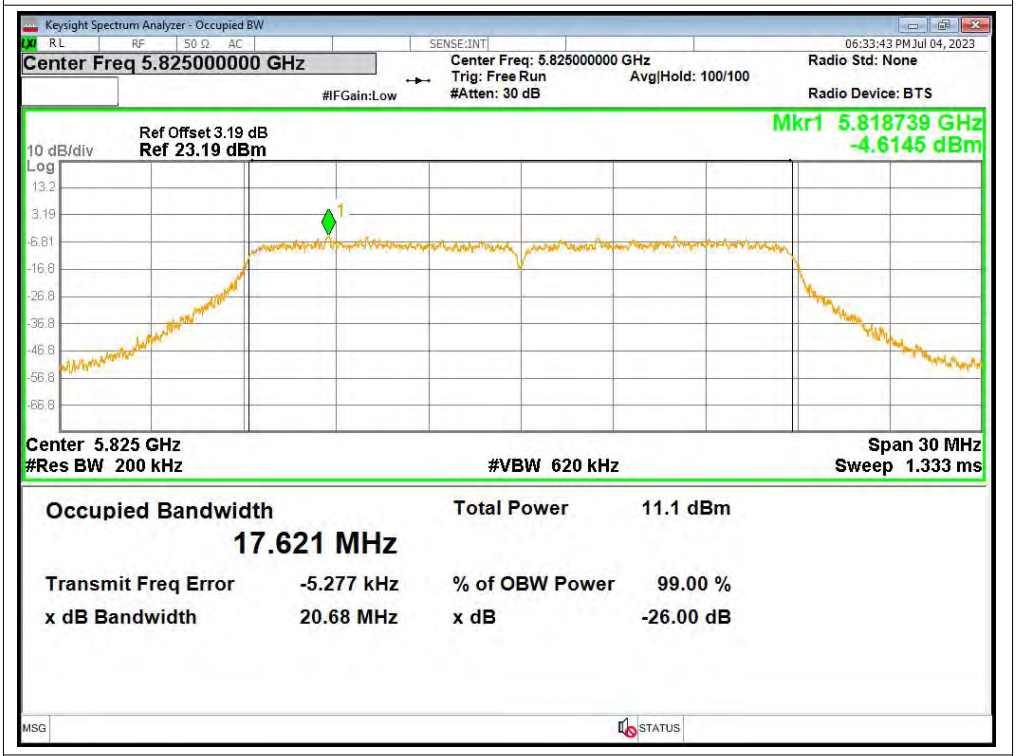
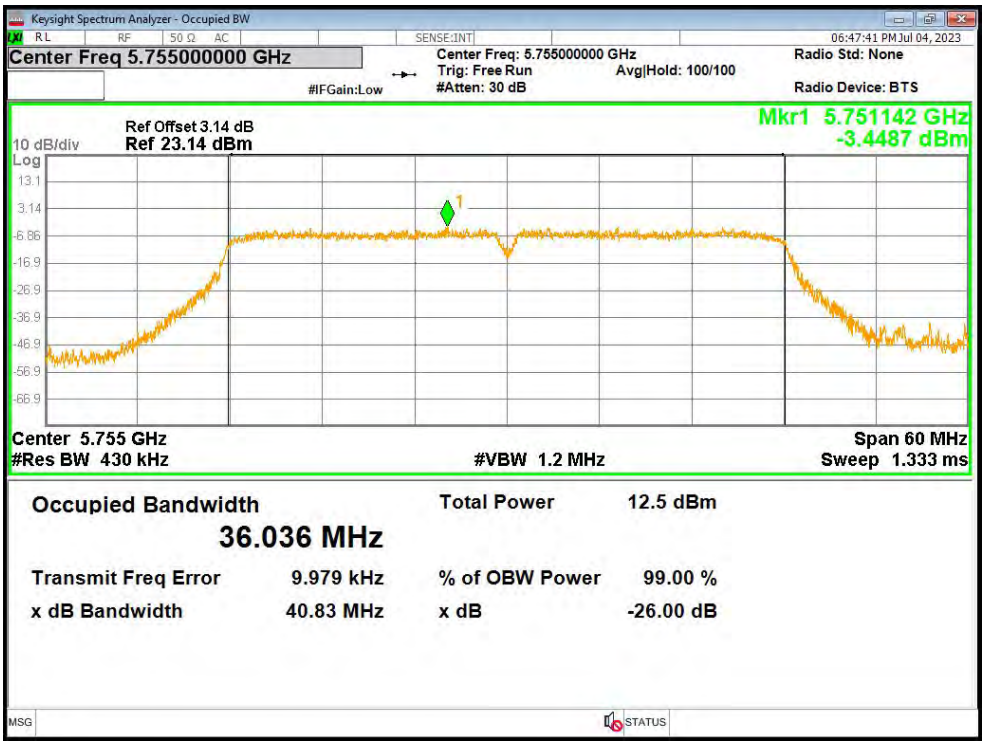
OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac40 5755MHz Ant1



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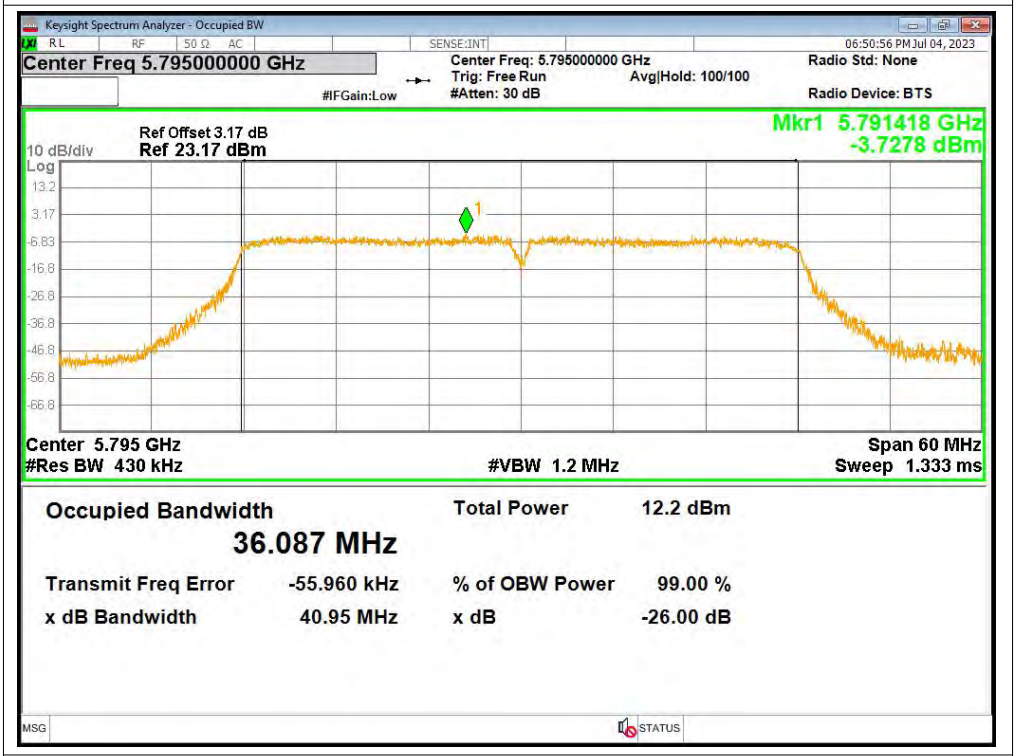
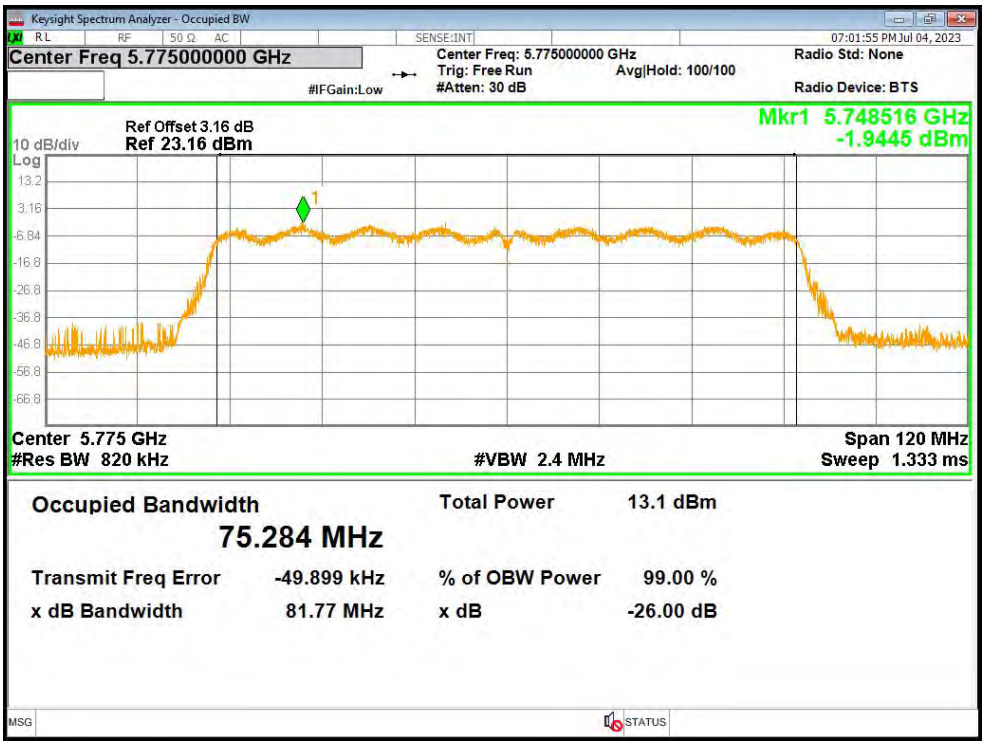
OBW NVNT ac40 5795MHz Ant1



OBW NVNT ac80 5775MHz Ant1



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B.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-10.19	0.22	-9.97	28.88	Pass
NVNT	a	5785	Ant1	-9.63	0.35	-9.28	28.88	Pass
NVNT	a	5825	Ant1	-12.04	0.15	-11.89	28.88	Pass
NVNT	n20	5745	Ant1	-10.84	0.34	-10.5	28.88	Pass
NVNT	n20	5785	Ant1	-10.31	0.18	-10.13	28.88	Pass
NVNT	n20	5825	Ant1	-10.88	0	-10.88	28.88	Pass
NVNT	n40	5755	Ant1	-14.89	0.19	-14.7	28.88	Pass
NVNT	n40	5795	Ant1	-13.54	0.12	-13.42	28.88	Pass
NVNT	ac20	5745	Ant1	-11.18	0.34	-10.84	28.88	Pass
NVNT	ac20	5785	Ant1	-10.12	0.22	-9.9	28.88	Pass
NVNT	ac20	5825	Ant1	-10.51	0.2	-10.31	28.88	Pass
NVNT	ac40	5755	Ant1	-14.68	0	-14.68	28.88	Pass
NVNT	ac40	5795	Ant1	-14.3	0.35	-13.95	28.88	Pass
NVNT	ac80	5775	Ant1	-20.32	0.13	-20.19	28.88	Pass

Note: Limit =30-1.12=28.88 dBm

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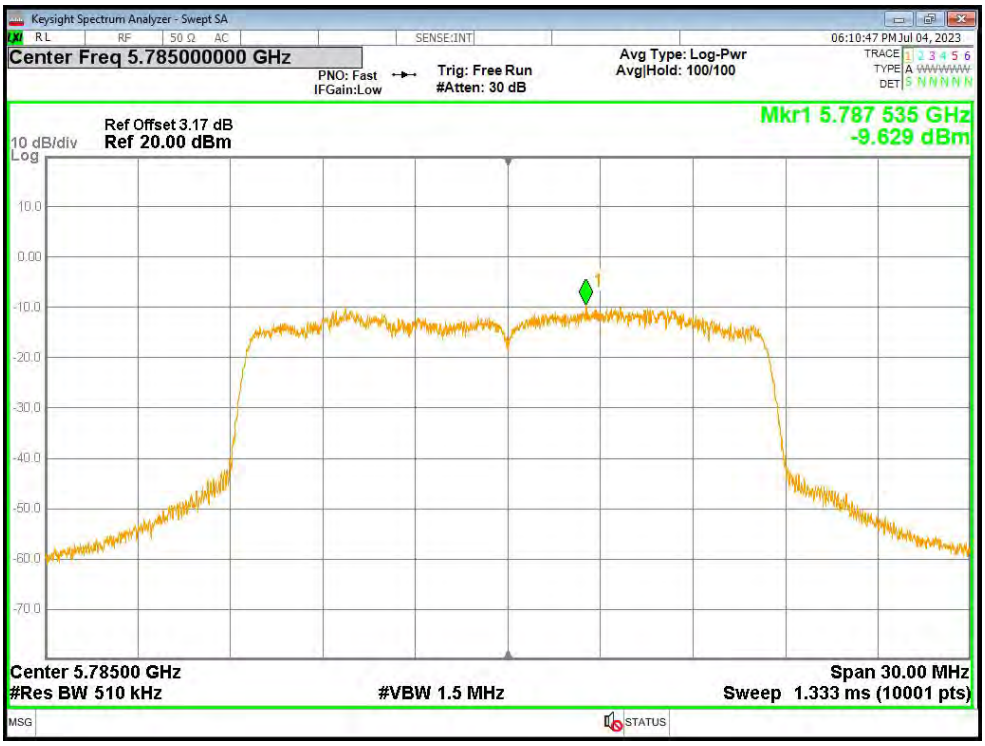
Test Graphs

PSD NVNT a 5745MHz Ant1

PSD NVNT a 5785MHz Ant1



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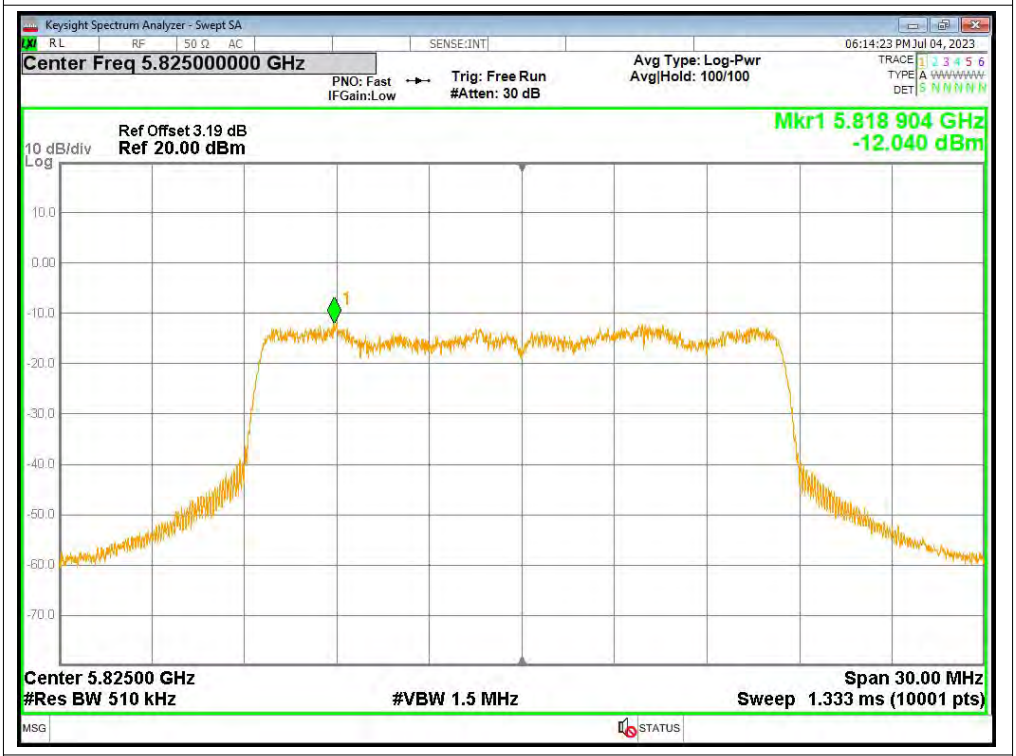
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1

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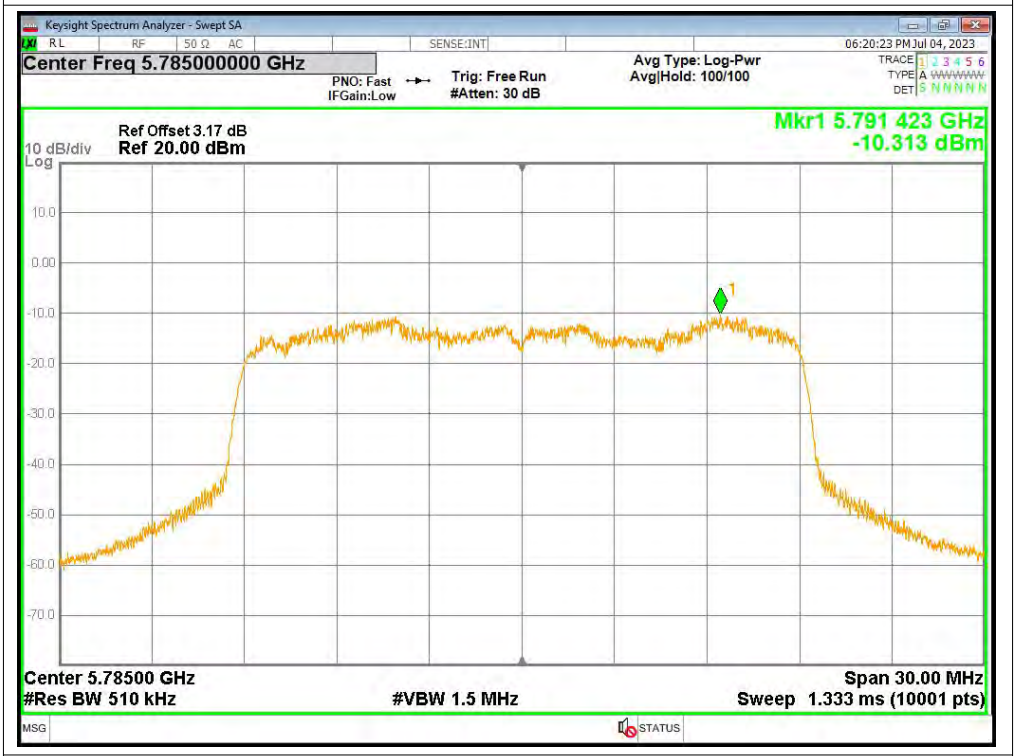
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1

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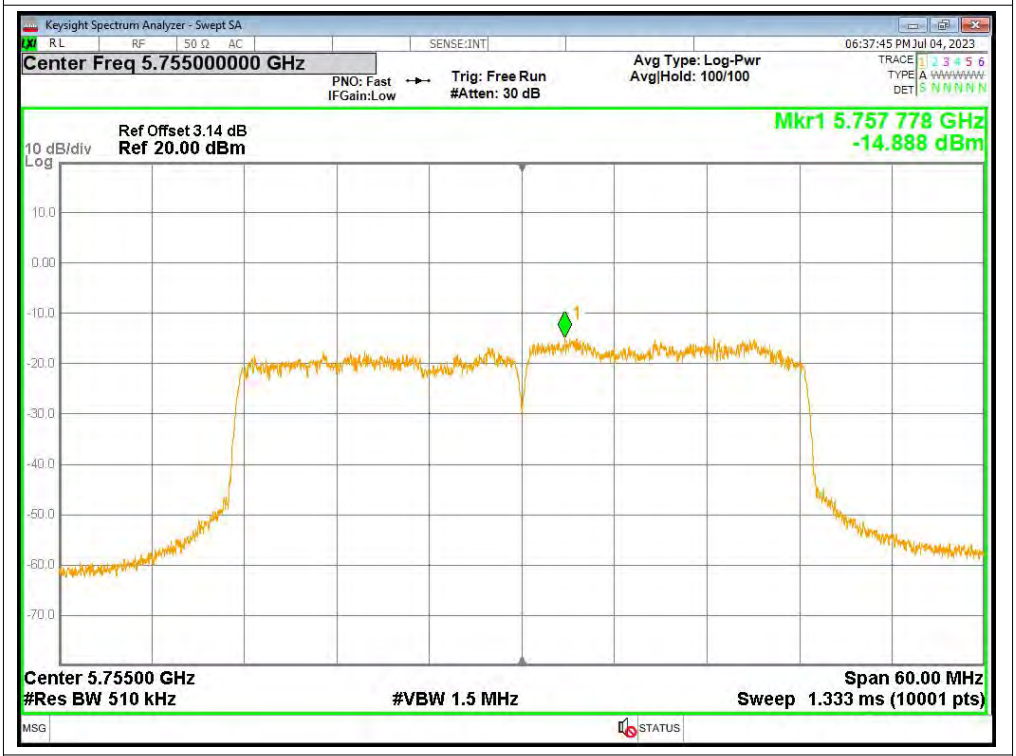
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

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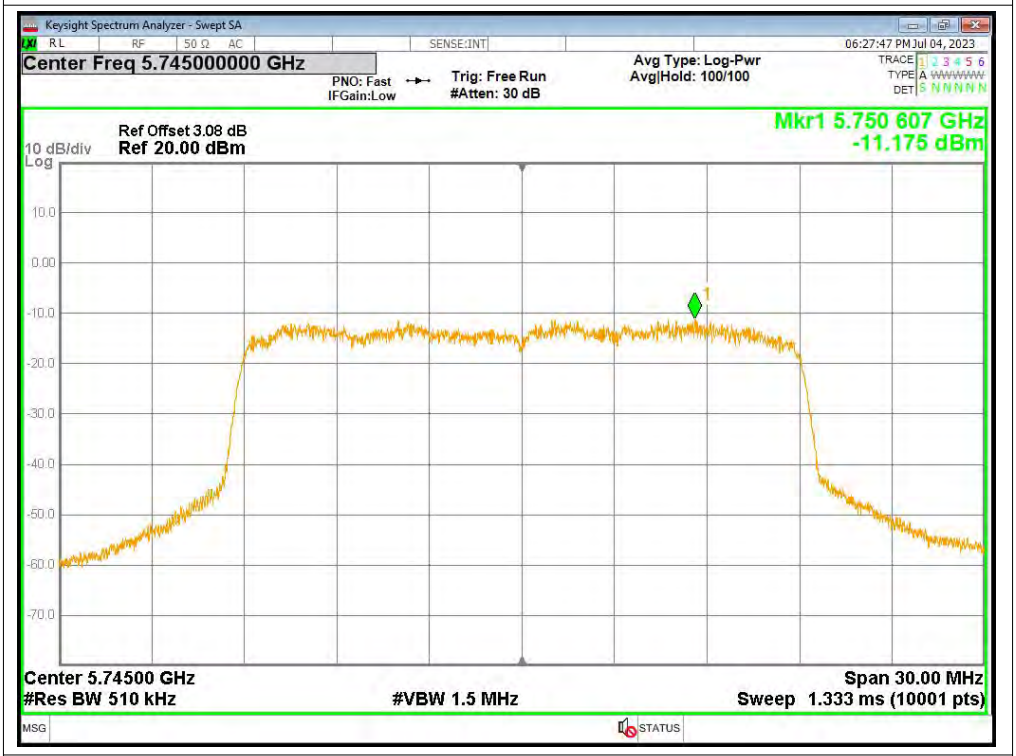
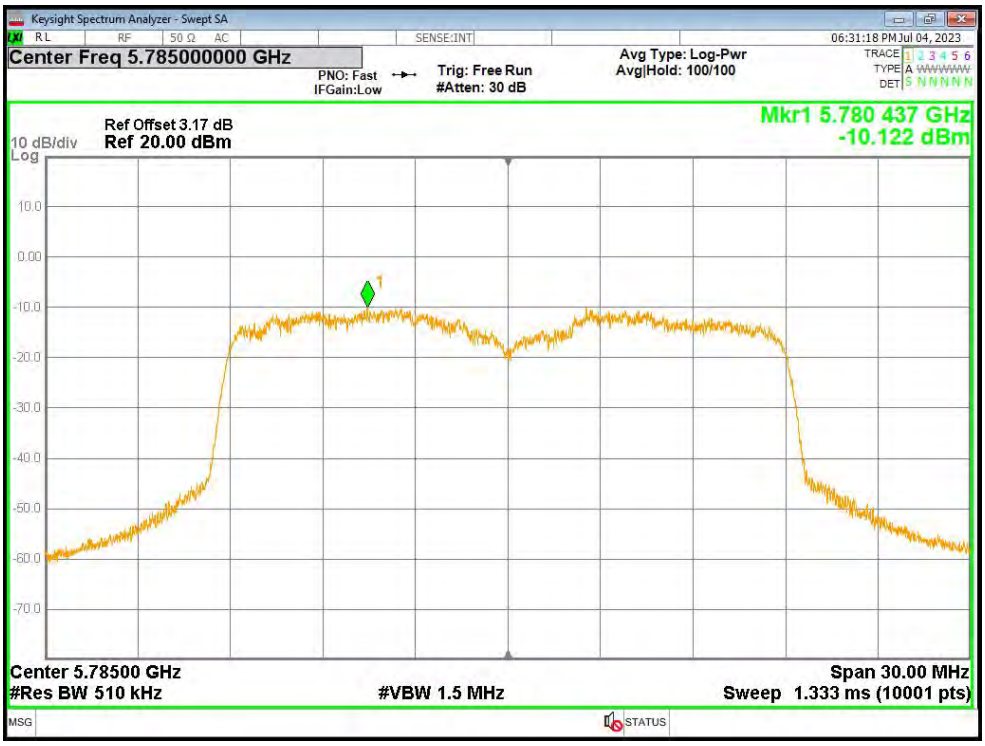
PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



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