ANNEX 2
FCC Part 15E Test Report
FCC ID: 2AJDD-IDIAGSF9S1

Applicant:	SHENZHEN FCAR TECHNOLOGY CO.,LTD
Address:	8th Floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060
Manufacturer:	SHENZHEN FCAR TECHNOLOGY CO.,LTD
Address:	8th Floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060
EUT:	Auto Diagnostic System
Trade Mark:	FCAR
Model Number:	F9S, F9S-D, F9S-G, F9S-W, F9S-M, F9S-E, F9S-N, F9S-A, F9S-L, F9S Pro
Date of Receipt:	Aug. 12, 2023
Test Date:	Aug. 12, 2023 - Aug. 24, 2023
Date of Report:	Aug. 24, 2023
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

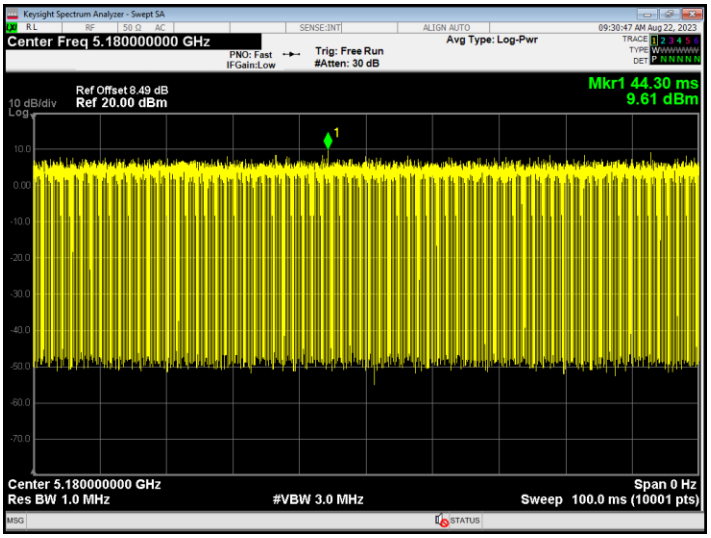
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	85.12	0.7
NVNT	a	5220	Ant1	85.01	0.71
NVNT	a	5240	Ant1	85.09	0.7
NVNT	ac20	5180	Ant1	95.35	0.21
NVNT	ac20	5220	Ant1	95.43	0.2
NVNT	ac20	5240	Ant1	95.57	0.2
NVNT	ac40	5190	Ant1	91.85	0.37
NVNT	ac40	5230	Ant1	91.83	0.37
NVNT	n20	5180	Ant1	97.56	0.11
NVNT	n20	5220	Ant1	97.57	0.11
NVNT	n20	5240	Ant1	97.6	0.11
NVNT	n40	5190	Ant1	95.39	0.2
NVNT	n40	5230	Ant1	95.37	0.21

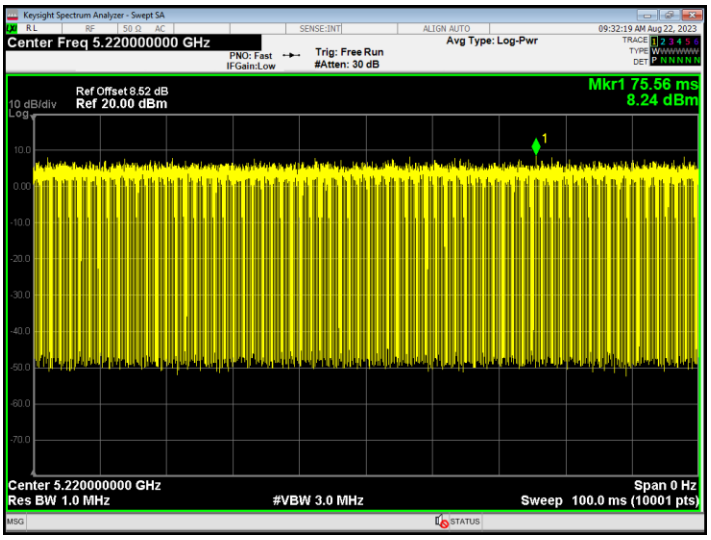
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	85.36	0.69
NVNT	a	5785	Ant1	85.38	0.69
NVNT	a	5825	Ant1	85.39	0.69
NVNT	ac20	5745	Ant1	95.54	0.2
NVNT	ac20	5785	Ant1	95.53	0.2
NVNT	ac20	5825	Ant1	95.51	0.2
NVNT	ac40	5755	Ant1	91.77	0.37
NVNT	ac40	5795	Ant1	91.79	0.37
NVNT	n20	5745	Ant1	97.63	0.1
NVNT	n20	5785	Ant1	97.59	0.11
NVNT	n20	5825	Ant1	97.59	0.11
NVNT	n40	5755	Ant1	95.34	0.21
NVNT	n40	5795	Ant1	95.36	0.21

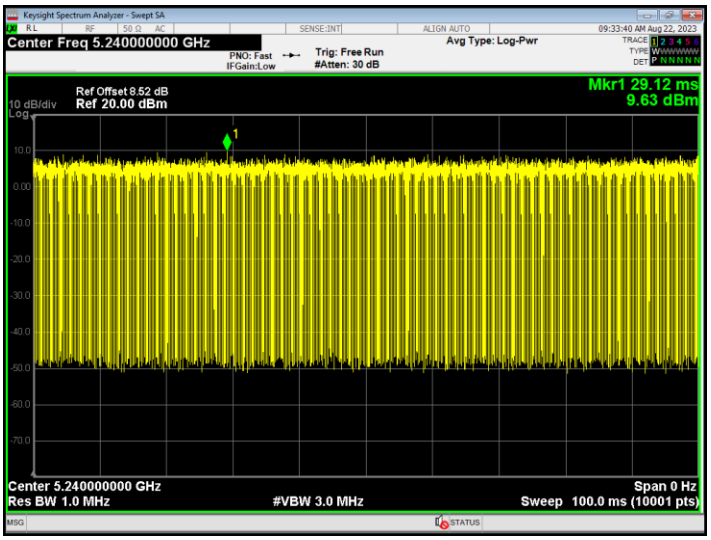
Duty Cycle NVNT a 5180MHz Ant1



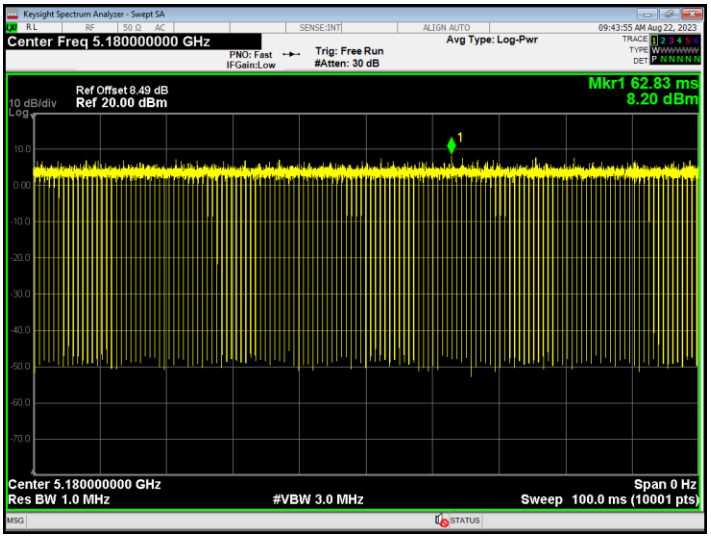
Duty Cycle NVNT a 5220MHz Ant1



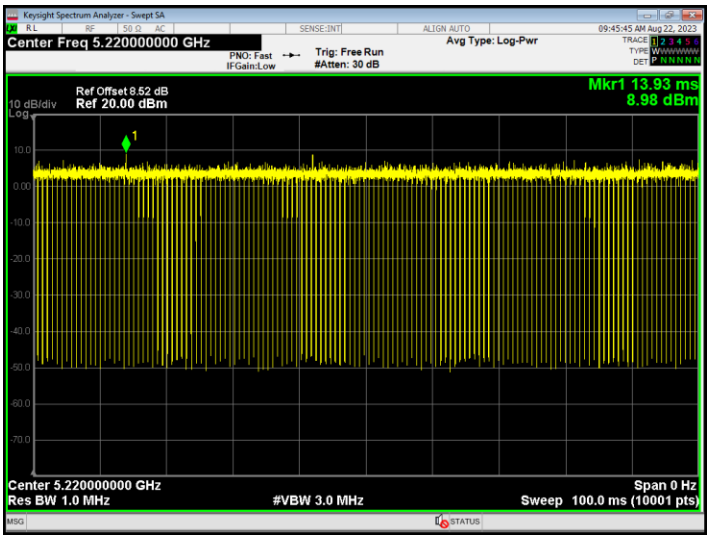
Duty Cycle NVNT a 5240MHz Ant1



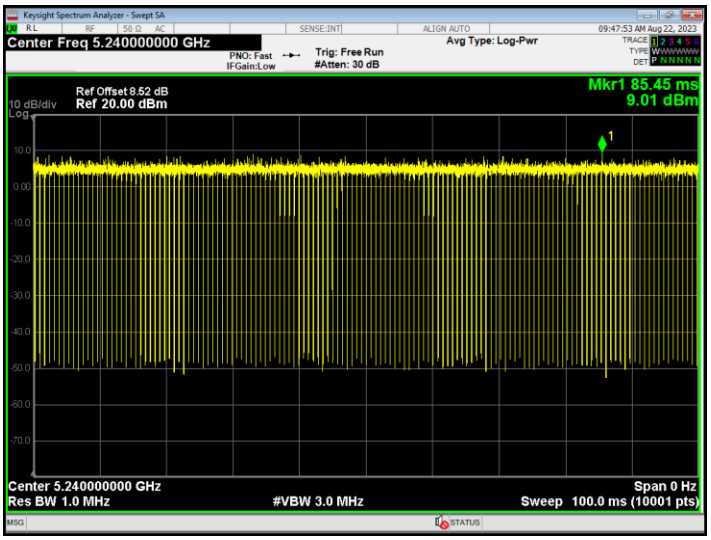
Duty Cycle NVNT ac20 5180MHz Ant1



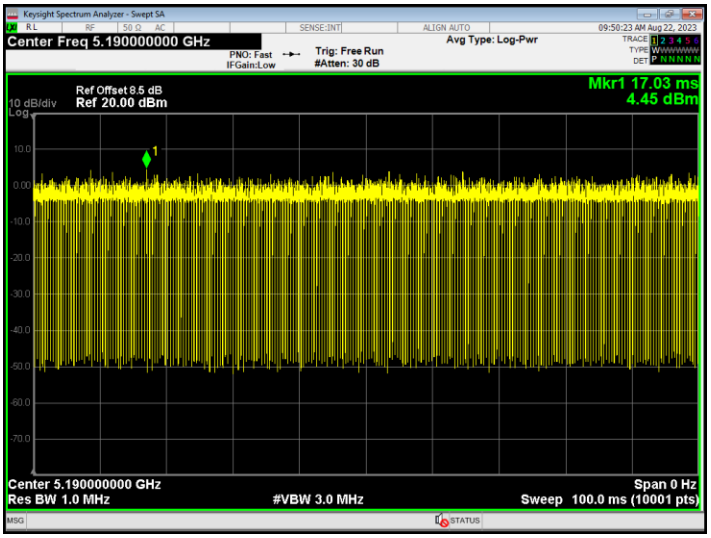
Duty Cycle NVNT ac20 5220MHz Ant1



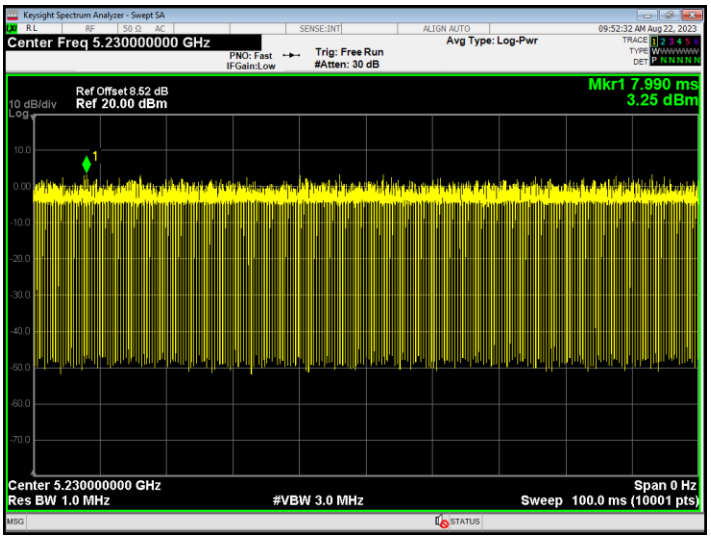
Duty Cycle NVNT ac20 5240MHz Ant1



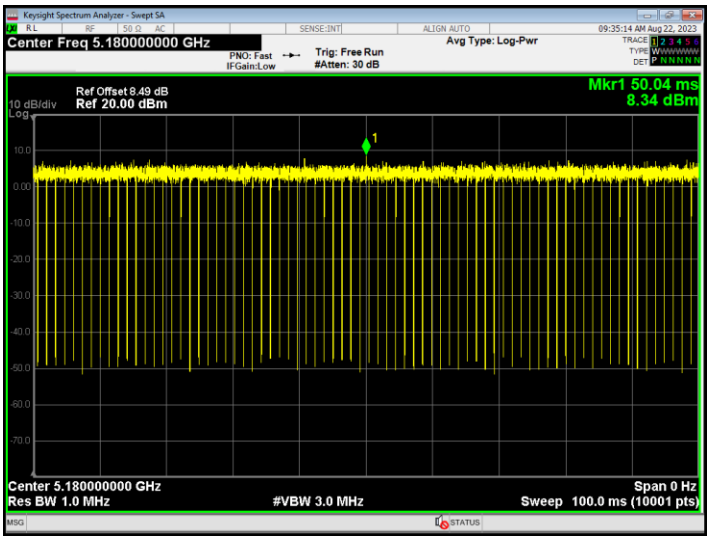
Duty Cycle NVNT ac40 5190MHz Ant1



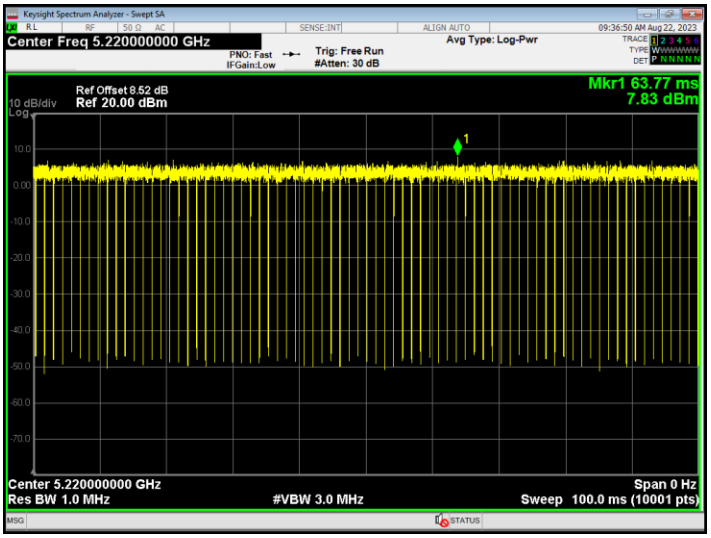
Duty Cycle NVNT ac40 5230MHz Ant1



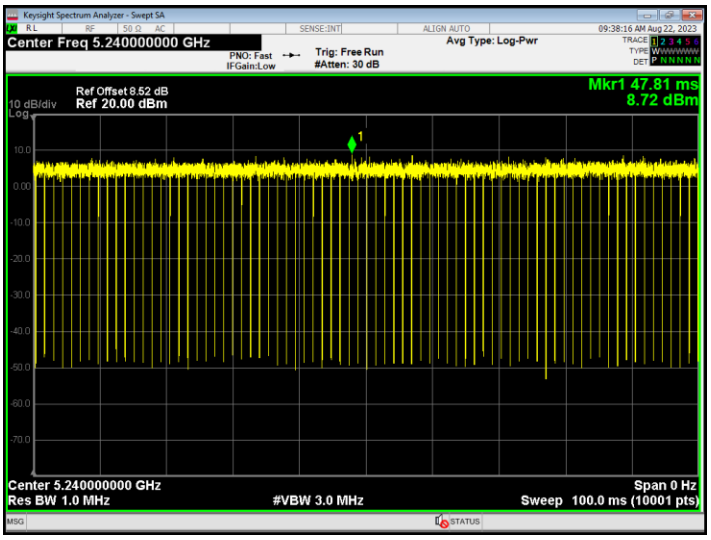
Duty Cycle NVNT n20 5180MHz Ant1



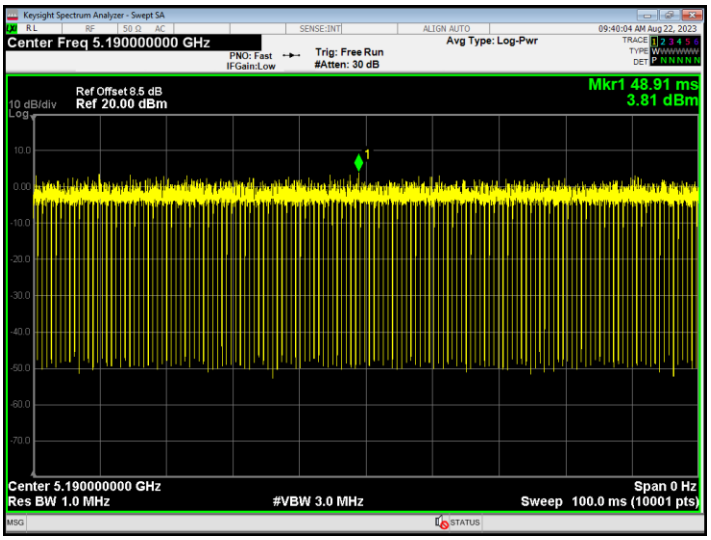
Duty Cycle NVNT n20 5220MHz Ant1



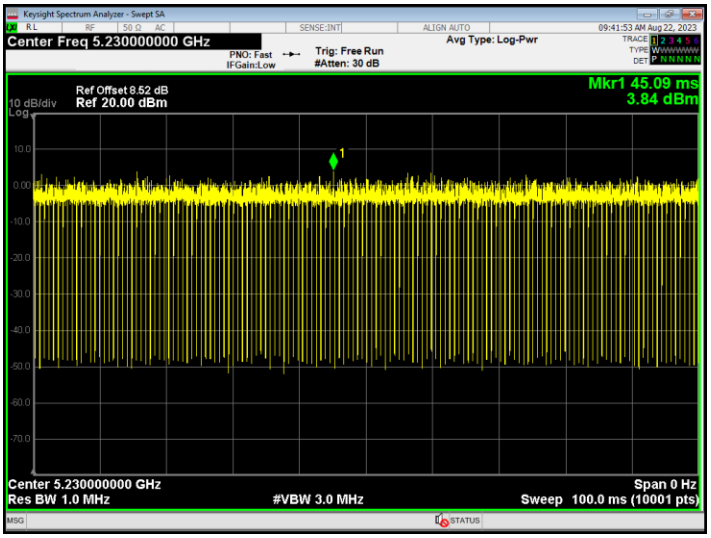
Duty Cycle NVNT n20 5240MHz Ant1



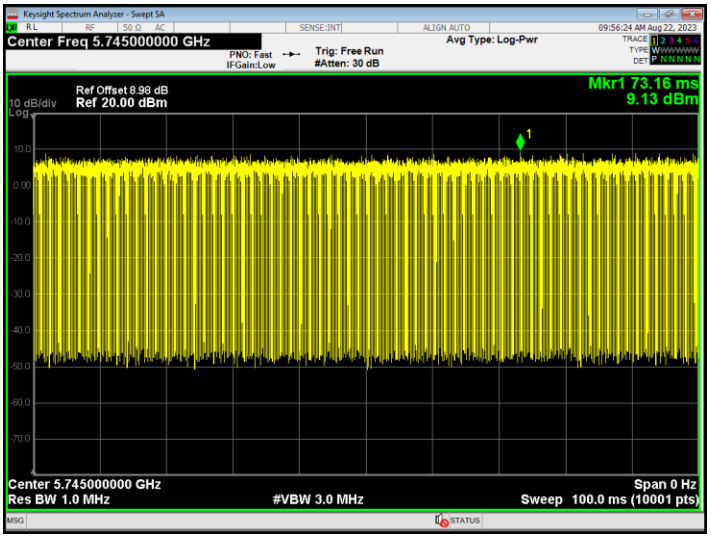
Duty Cycle NVNT n40 5190MHz Ant1



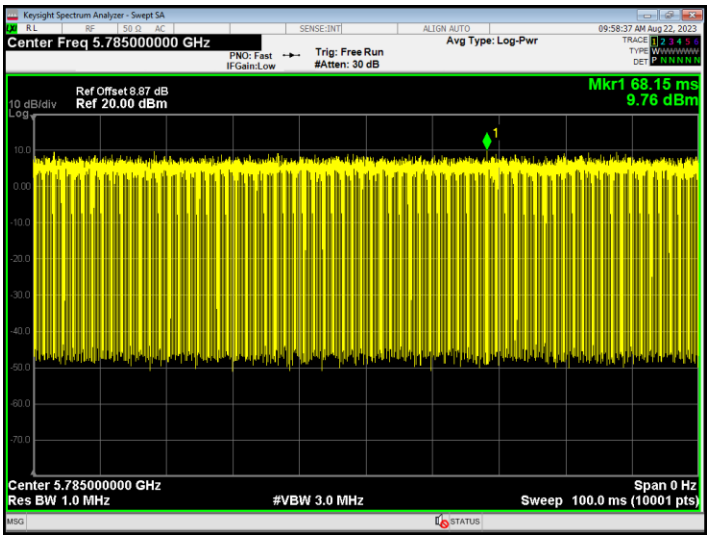
Duty Cycle NVNT n40 5230MHz Ant1



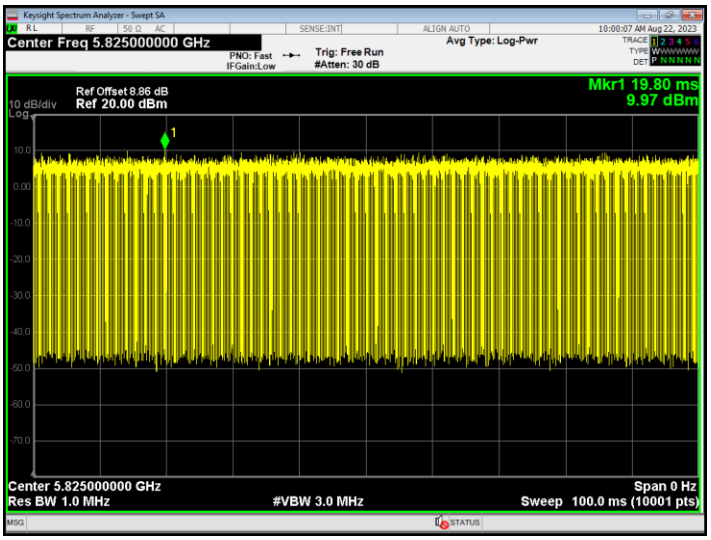
Duty Cycle NVNT a 5745MHz Ant1



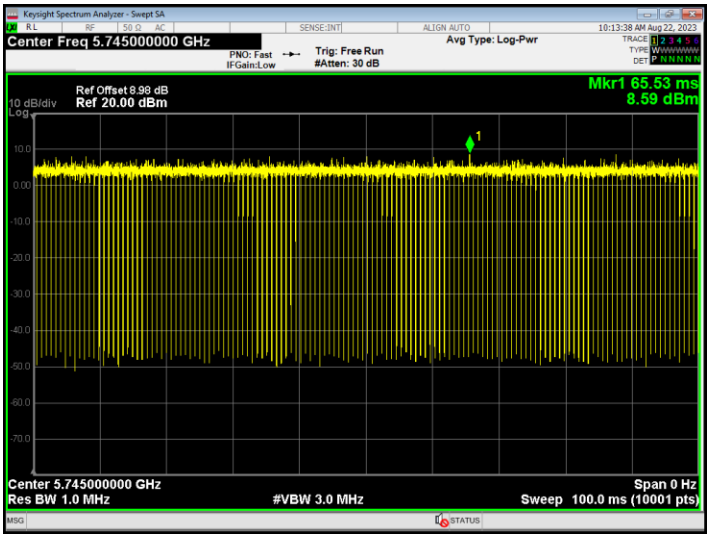
Duty Cycle NVNT a 5785MHz Ant1



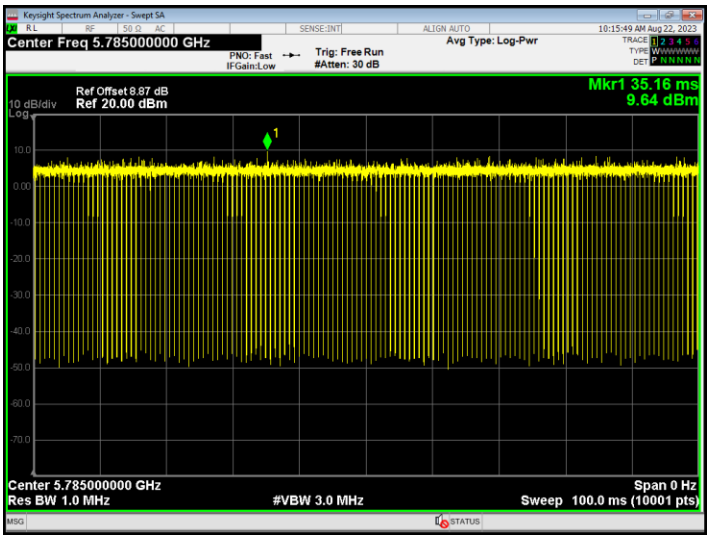
Duty Cycle NVNT a 5825MHz Ant1



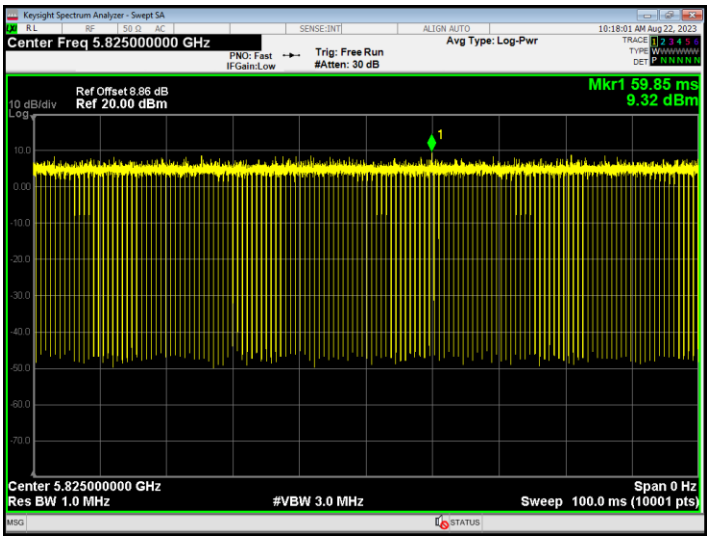
Duty Cycle NVNT ac20 5745MHz Ant1



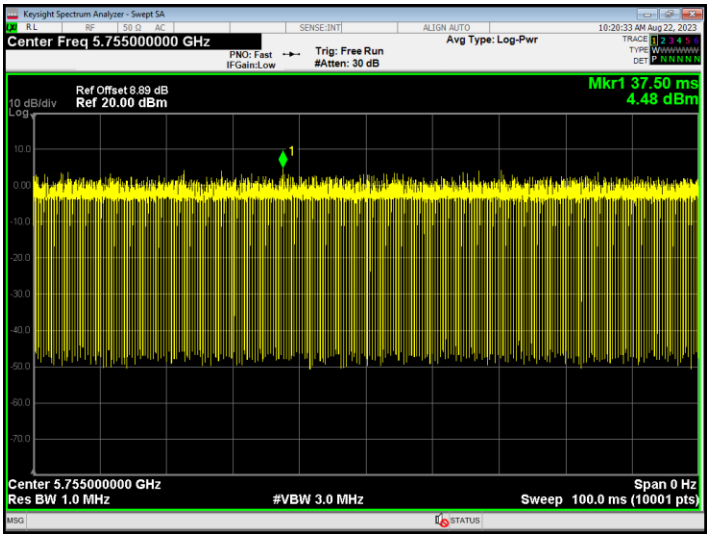
Duty Cycle NVNT ac20 5785MHz Ant1



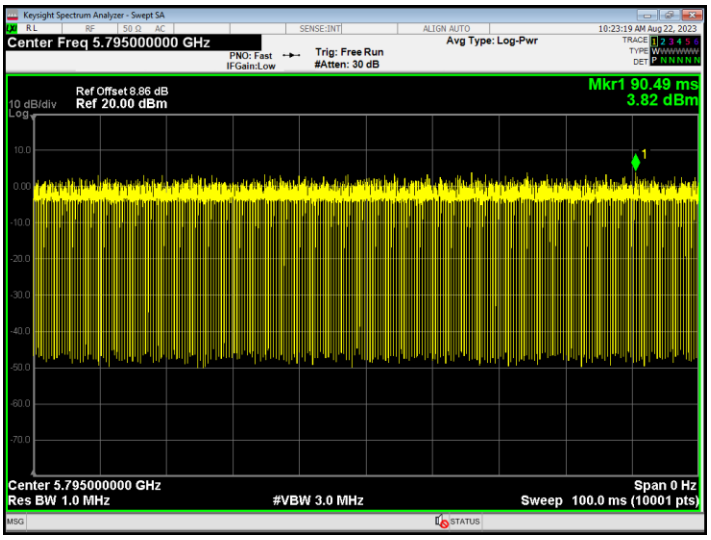
Duty Cycle NVNT ac20 5825MHz Ant1



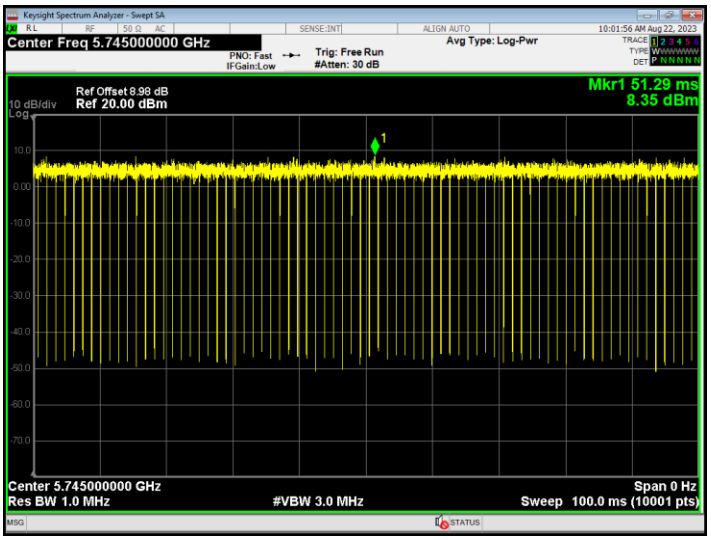
Duty Cycle NVNT ac40 5755MHz Ant1



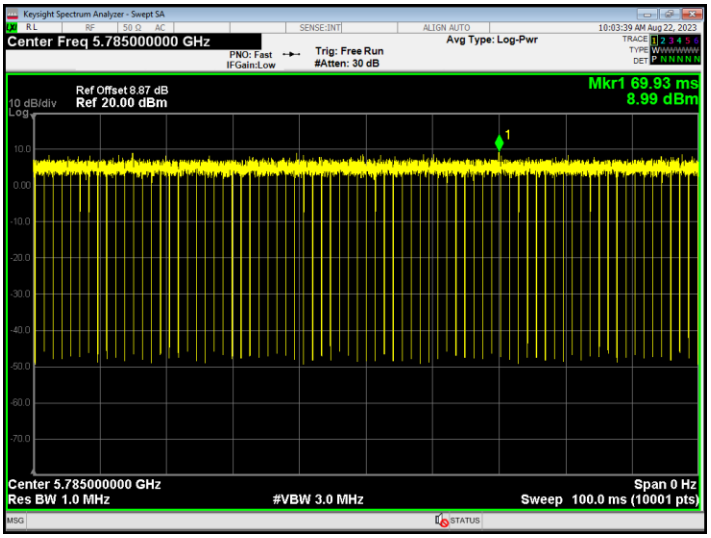
Duty Cycle NVNT ac40 5795MHz Ant1



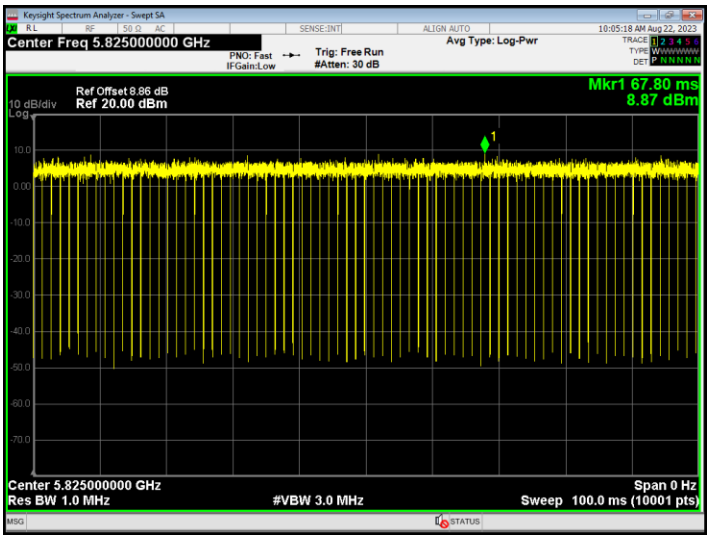
Duty Cycle NVNT n20 5745MHz Ant1



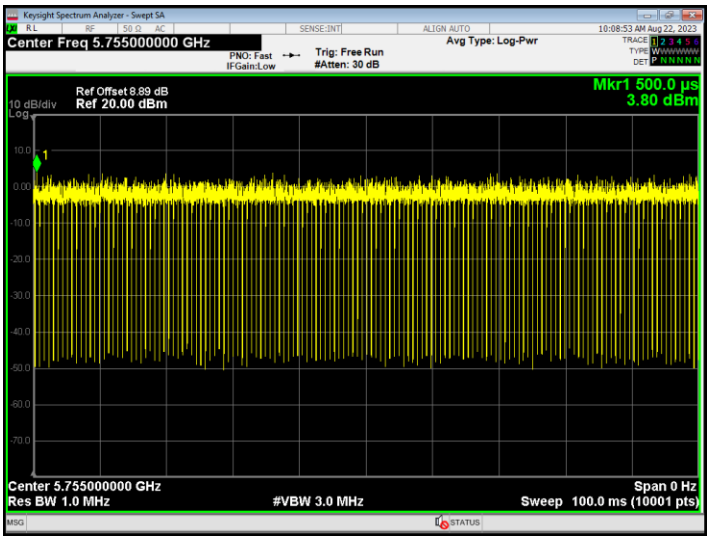
Duty Cycle NVNT n20 5785MHz Ant1



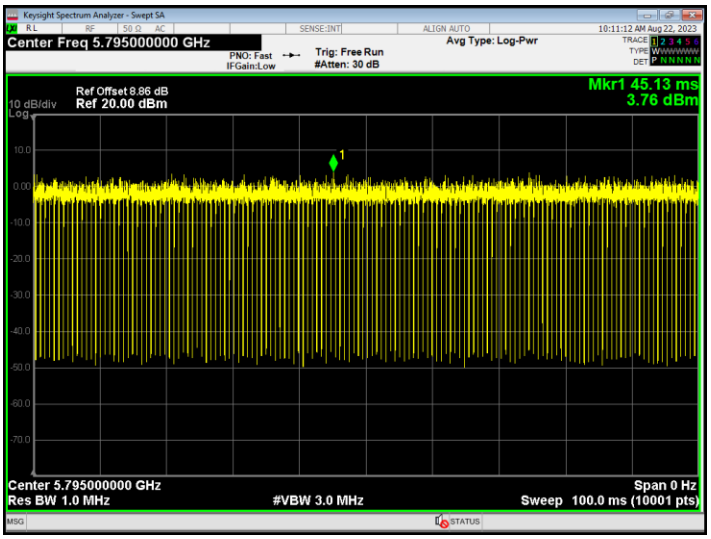
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



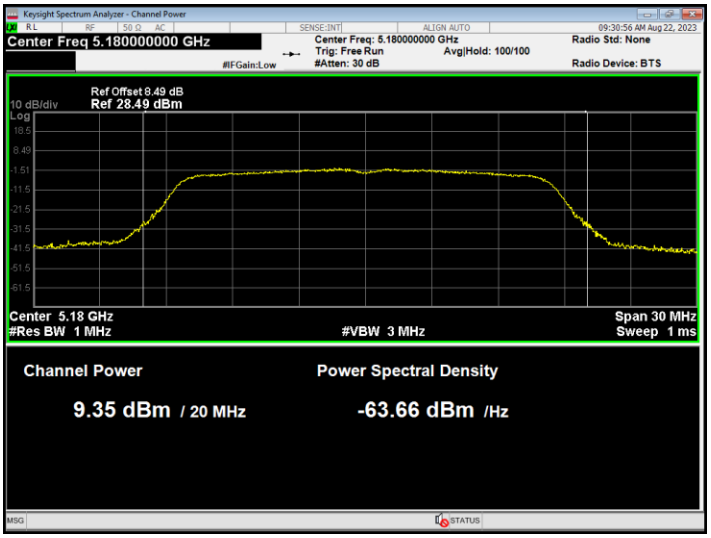
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	9.349	0.7	10.049	24	Pass
NVNT	a	5220	Ant1	9.154	0.71	9.864	24	Pass
NVNT	a	5240	Ant1	10.177	0.7	10.877	24	Pass
NVNT	ac20	5180	Ant1	9.974	0.21	10.184	24	Pass
NVNT	ac20	5220	Ant1	9.781	0.2	9.981	24	Pass
NVNT	ac20	5240	Ant1	10.918	0.2	11.118	24	Pass
NVNT	ac40	5190	Ant1	10.202	0.37	10.572	24	Pass
NVNT	ac40	5230	Ant1	10.142	0.37	10.512	24	Pass
NVNT	n20	5180	Ant1	10.171	0.11	10.281	24	Pass
NVNT	n20	5220	Ant1	9.964	0.11	10.074	24	Pass
NVNT	n20	5240	Ant1	11.07	0.11	11.18	24	Pass
NVNT	n40	5190	Ant1	10.441	0.2	10.641	24	Pass
NVNT	n40	5230	Ant1	10.346	0.21	10.556	24	Pass

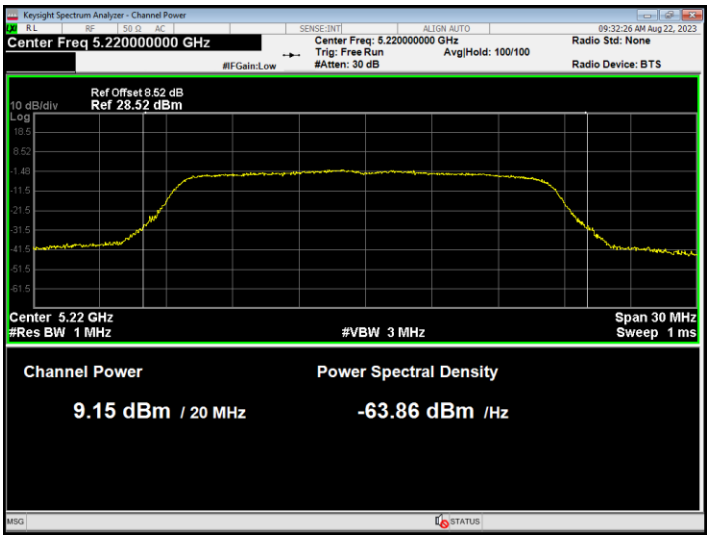
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.766	0.69	10.456	30	Pass
NVNT	a	5785	Ant1	10.274	0.69	10.964	30	Pass
NVNT	a	5825	Ant1	10.351	0.69	11.041	30	Pass
NVNT	ac20	5745	Ant1	9.938	0.2	10.138	30	Pass
NVNT	ac20	5785	Ant1	10.216	0.2	10.416	30	Pass
NVNT	ac20	5825	Ant1	10.63	0.2	10.83	30	Pass
NVNT	ac40	5755	Ant1	9.966	0.37	10.336	30	Pass
NVNT	ac40	5795	Ant1	10.112	0.37	10.482	30	Pass
NVNT	n20	5745	Ant1	10.499	0.1	10.599	30	Pass
NVNT	n20	5785	Ant1	10.987	0.11	11.097	30	Pass
NVNT	n20	5825	Ant1	10.689	0.11	10.799	30	Pass
NVNT	n40	5755	Ant1	10.108	0.21	10.318	30	Pass
NVNT	n40	5795	Ant1	10.44	0.21	10.65	30	Pass

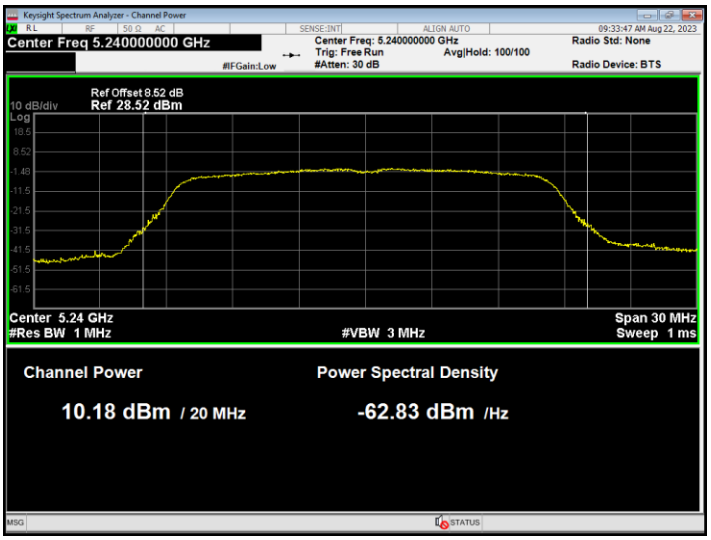
Power NVNT a 5180MHz Ant1



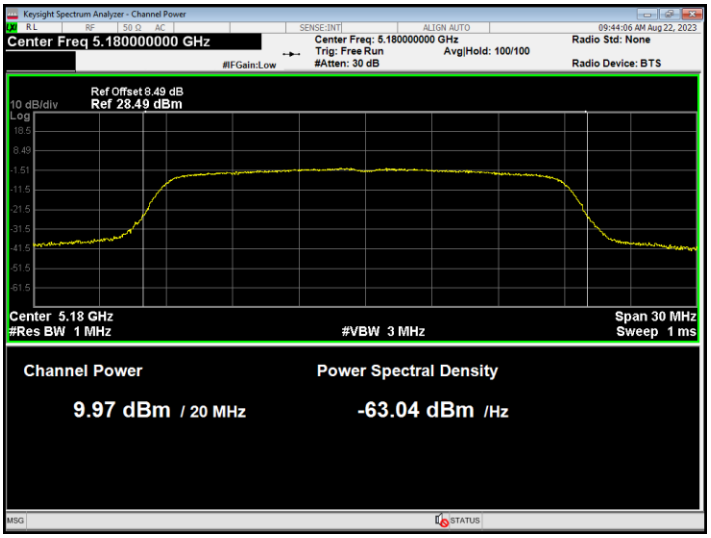
Power NVNT a 5220MHz Ant1



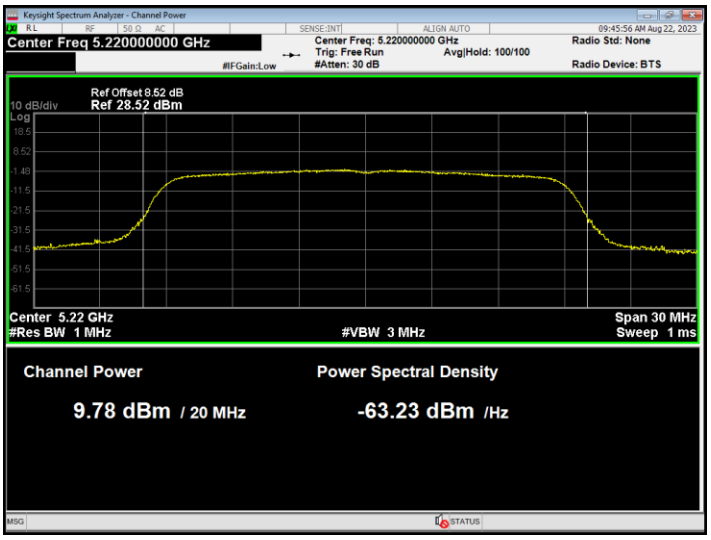
Power NVNT a 5240MHz Ant1



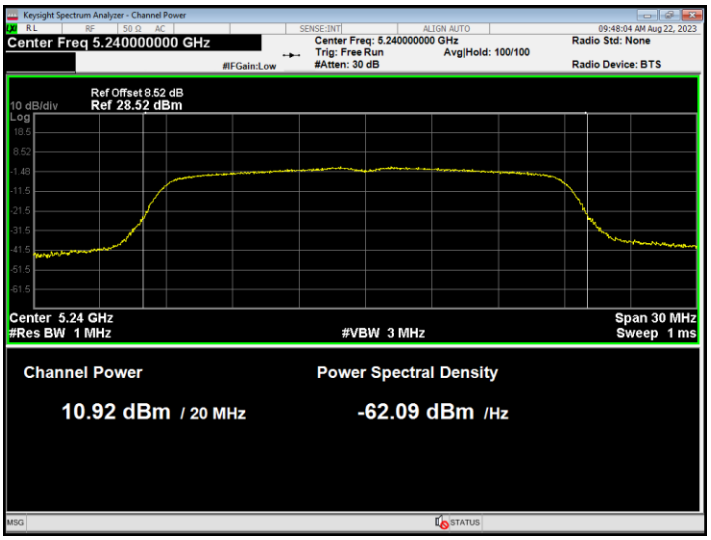
Power NVNT ac20 5180MHz Ant1



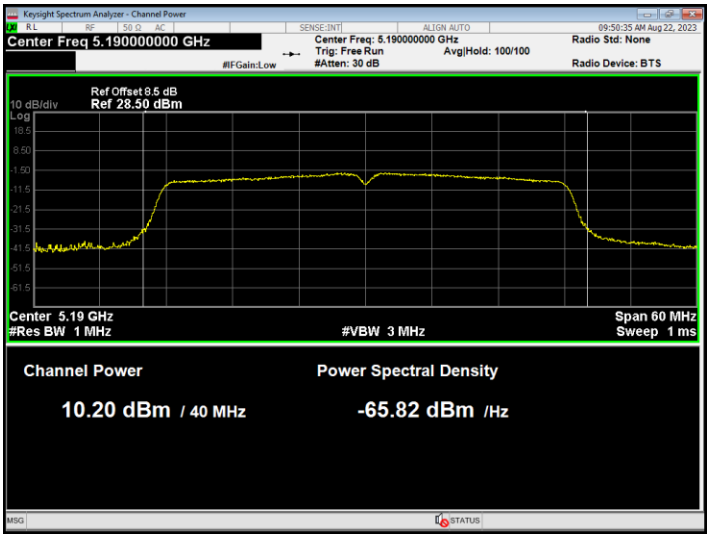
Power NVNT ac20 5220MHz Ant1



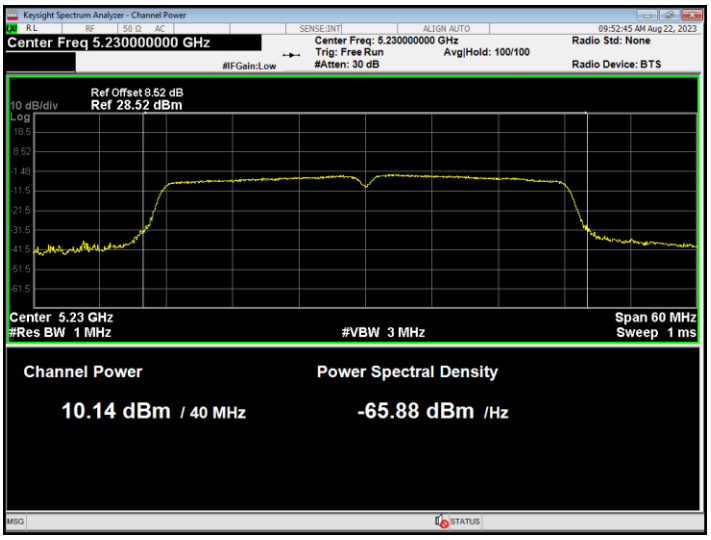
Power NVNT ac20 5240MHz Ant1



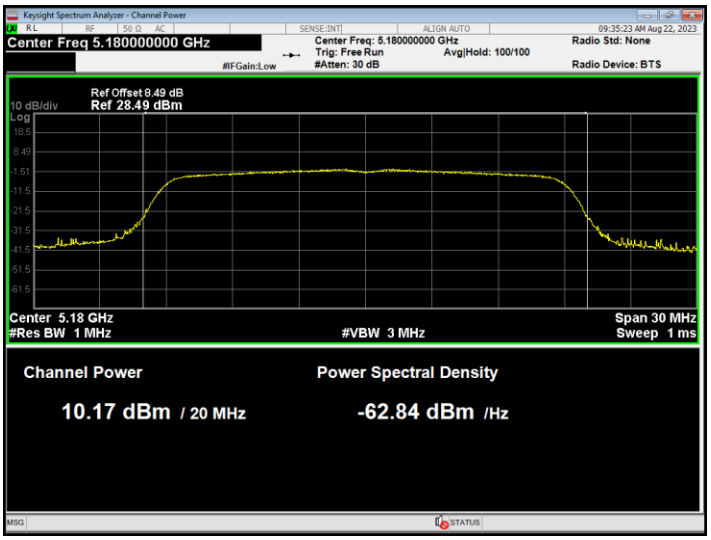
Power NVNT ac40 5190MHz Ant1



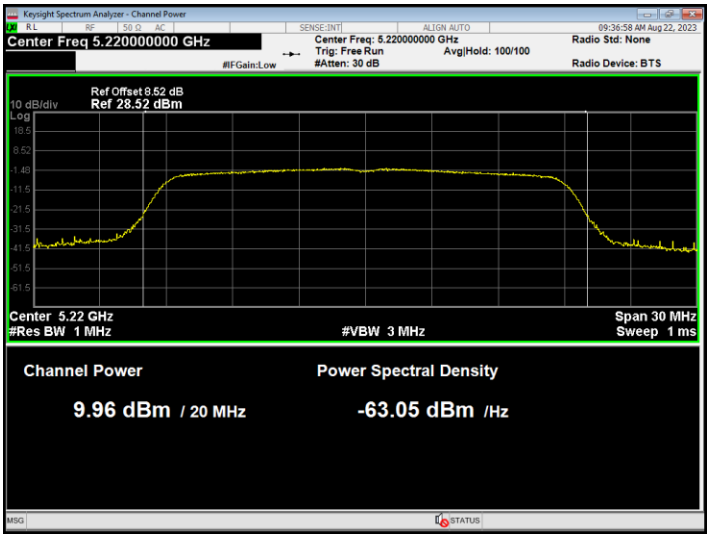
Power NVNT ac40 5230MHz Ant1



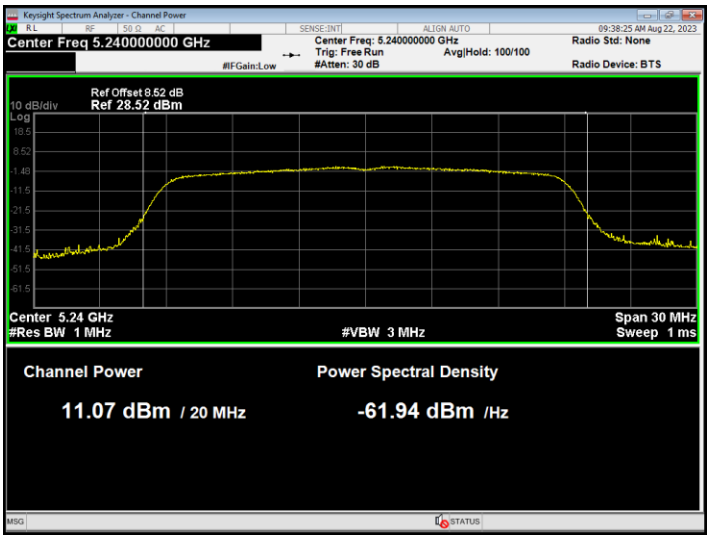
Power NVNT n20 5180MHz Ant1



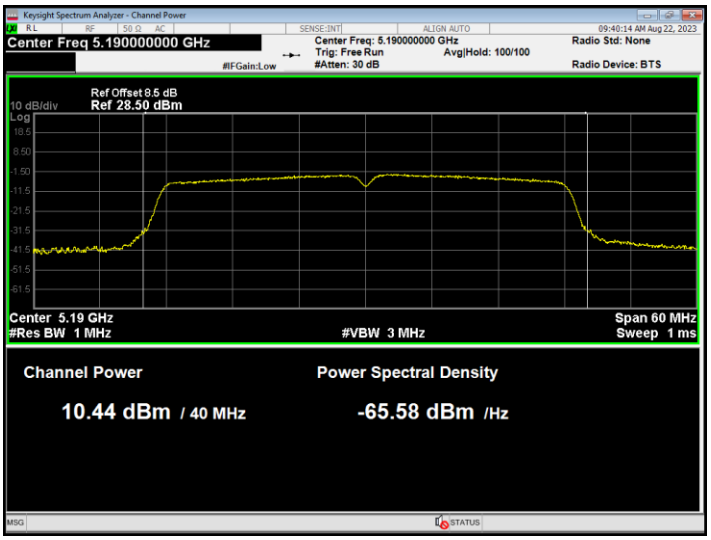
Power NVNT n20 5220MHz Ant1



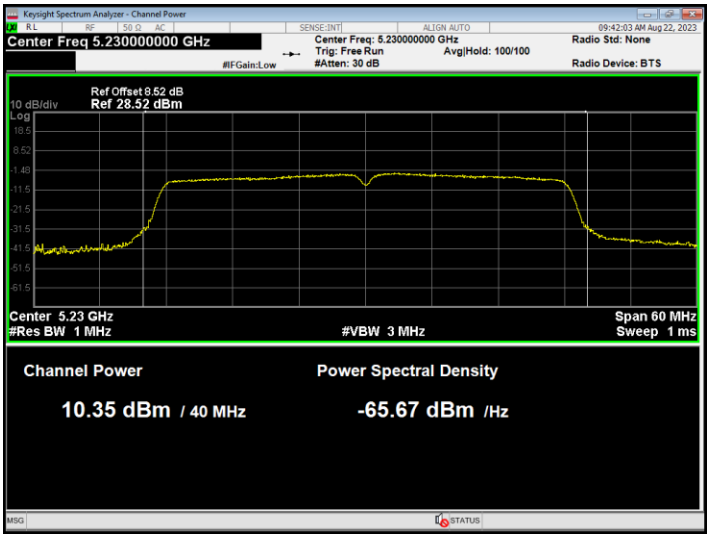
Power NVNT n20 5240MHz Ant1



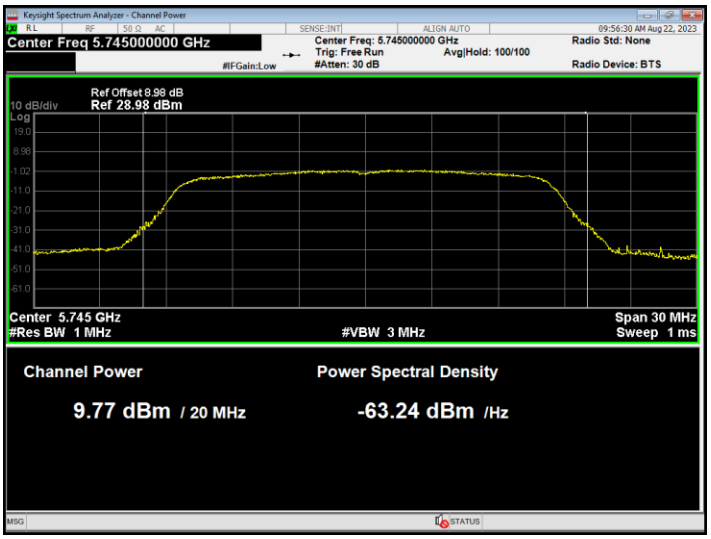
Power NVNT n40 5190MHz Ant1



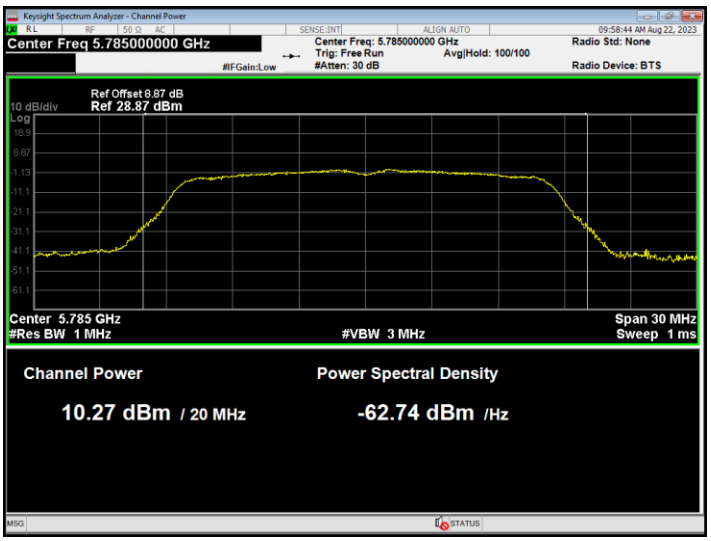
Power NVNT n40 5230MHz Ant1



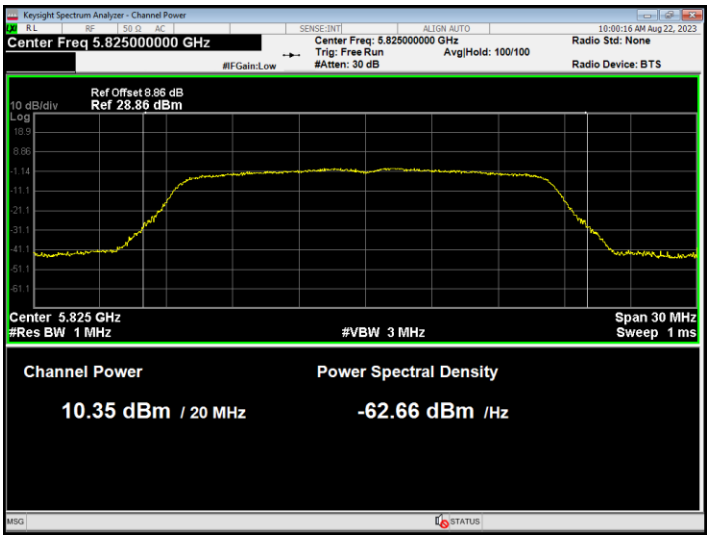
Power NVNT a 5745MHz Ant1



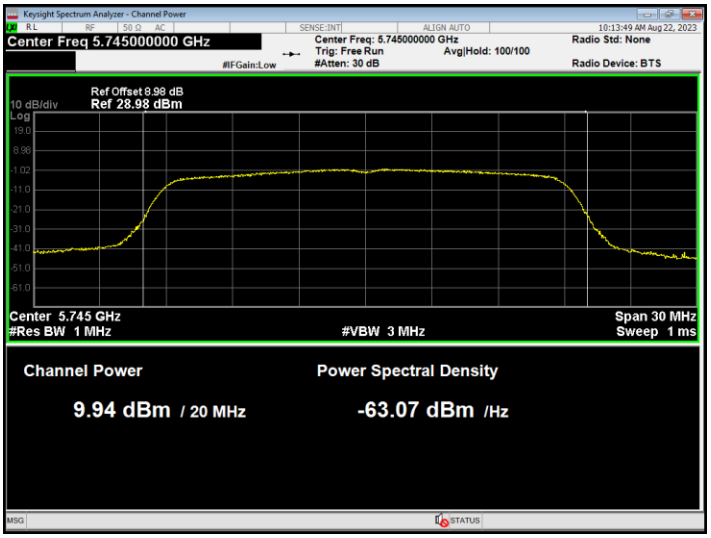
Power NVNT a 5785MHz Ant1



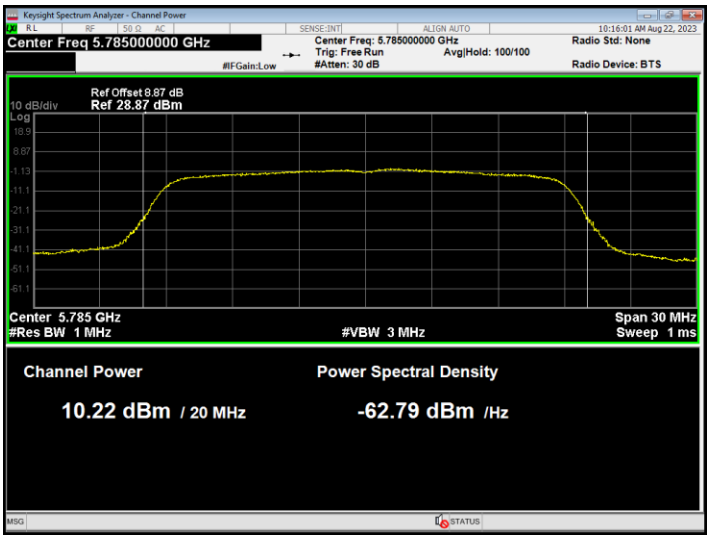
Power NVNT a 5825MHz Ant1



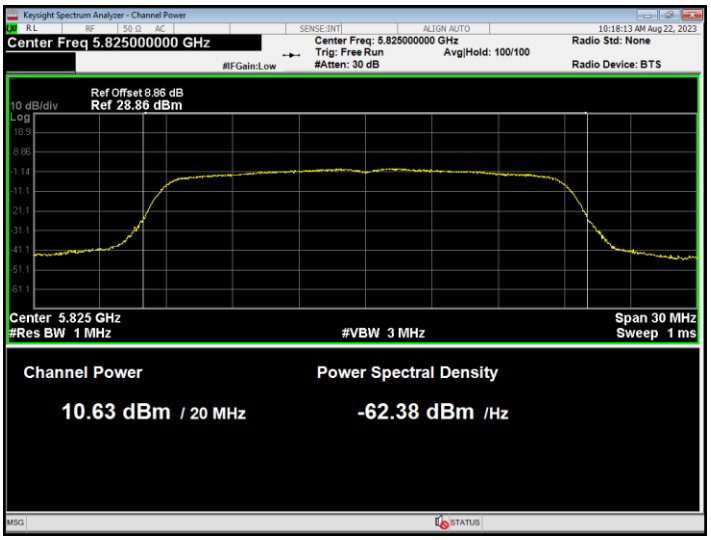
Power NVNT ac20 5745MHz Ant1



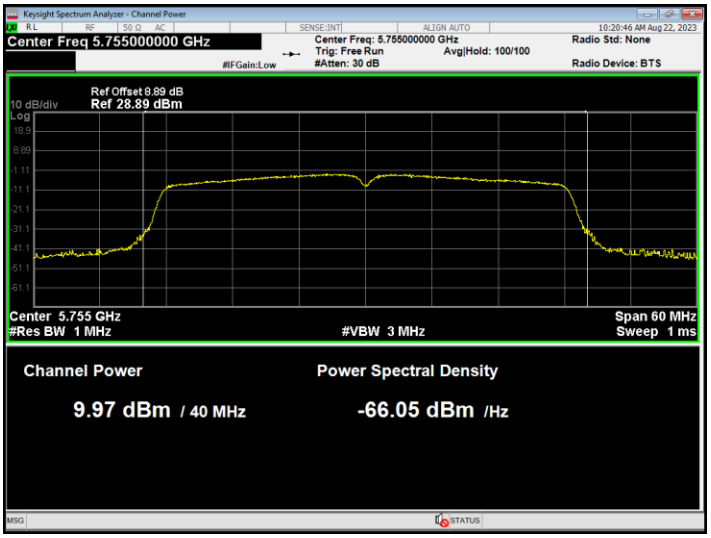
Power NVNT ac20 5785MHz Ant1



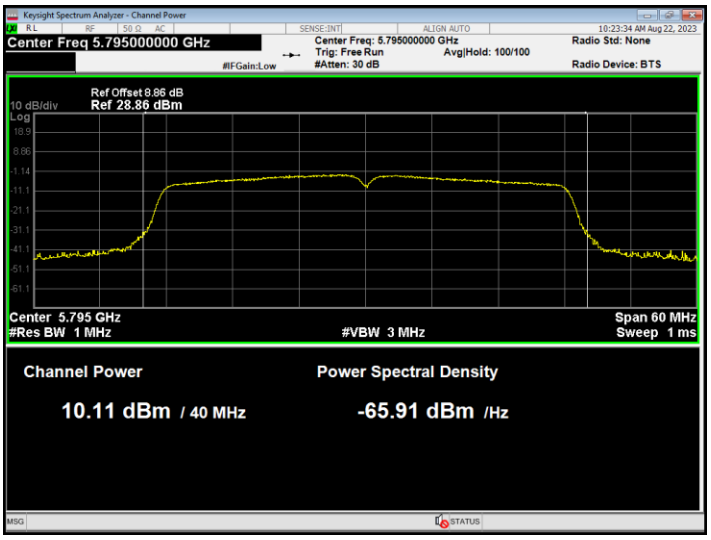
Power NVNT ac20 5825MHz Ant1



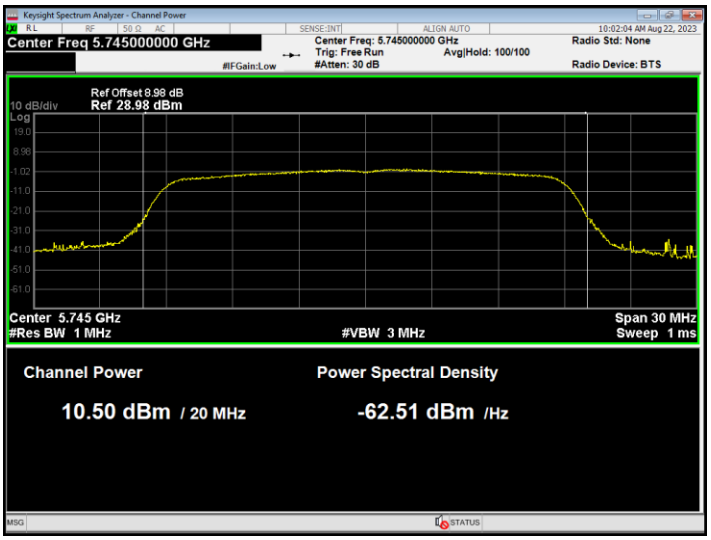
Power NVNT ac40 5755MHz Ant1



Power NVNT ac40 5795MHz Ant1



Power NVNT n20 5745MHz Ant1



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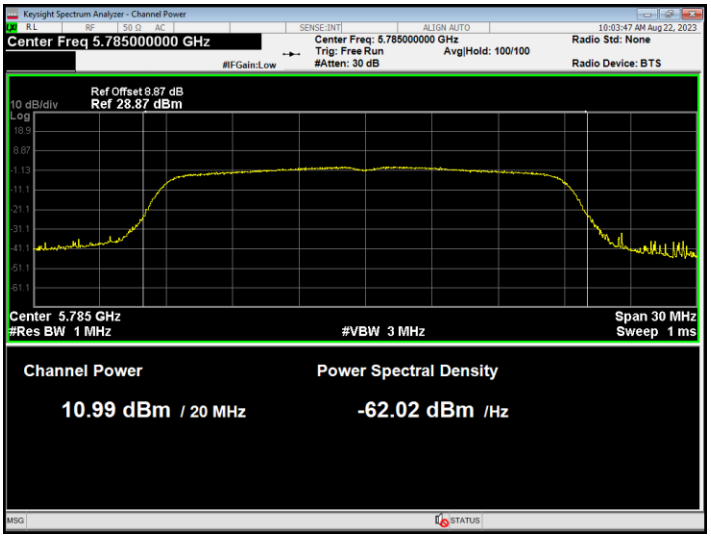
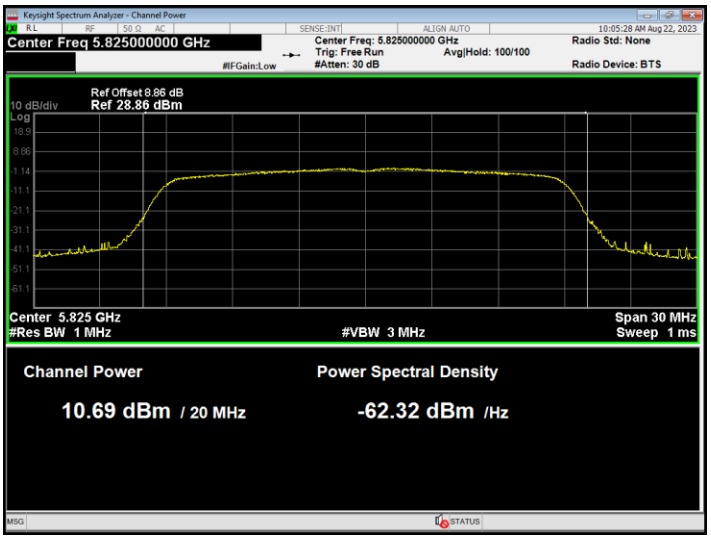
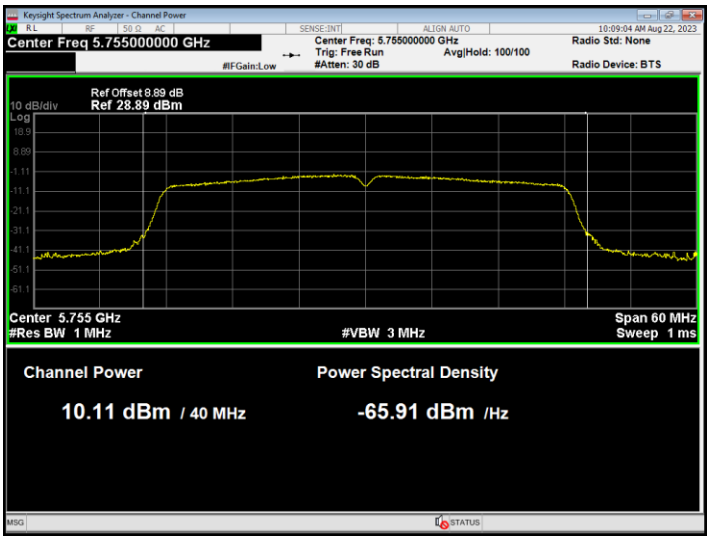


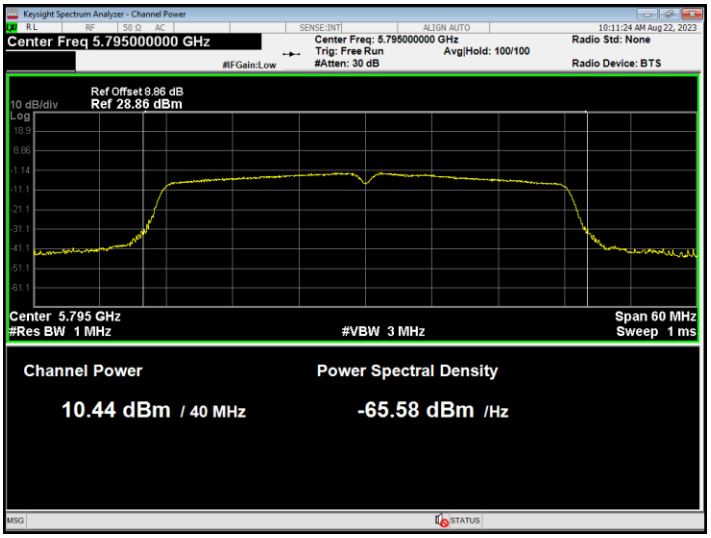
Power NVNT n20 5825MHz Ant1



Power NVNT n40 5755MHz Ant1



Power NVNT n40 5795MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.38587291
NVNT	a	5220	Ant1	16.42713617
NVNT	a	5240	Ant1	16.3620078
NVNT	ac20	5180	Ant1	17.55247074
NVNT	ac20	5220	Ant1	17.55225373
NVNT	ac20	5240	Ant1	17.50652957
NVNT	ac40	5190	Ant1	35.99489104
NVNT	ac40	5230	Ant1	36.14095186
NVNT	n20	5180	Ant1	17.57157113
NVNT	n20	5220	Ant1	17.56492862
NVNT	n20	5240	Ant1	17.51792407
NVNT	n40	5190	Ant1	35.99877479
NVNT	n40	5230	Ant1	36.13674292

-6dB Bandwidth

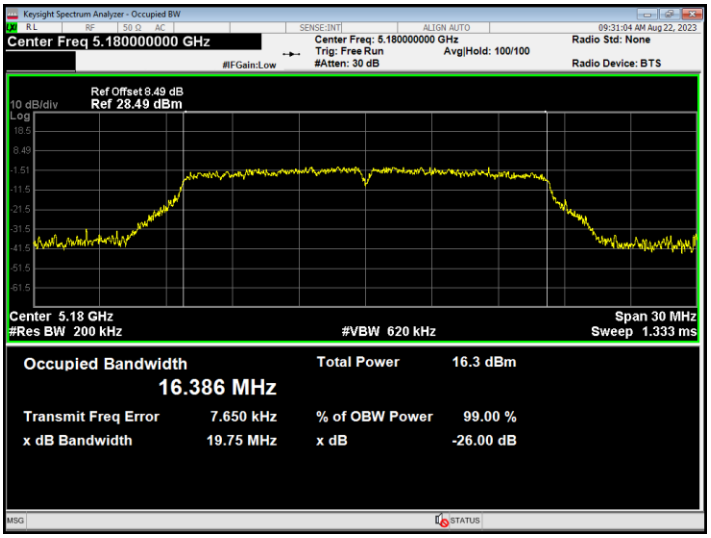
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.369	0.5	Pass
NVNT	a	5785	Ant1	15.761	0.5	Pass
NVNT	a	5825	Ant1	15.36	0.5	Pass
NVNT	ac20	5745	Ant1	14.426	0.5	Pass
NVNT	ac20	5785	Ant1	15.391	0.5	Pass
NVNT	ac20	5825	Ant1	15.11	0.5	Pass
NVNT	ac40	5755	Ant1	35.077	0.5	Pass
NVNT	ac40	5795	Ant1	35.09	0.5	Pass
NVNT	n20	5745	Ant1	15.945	0.5	Pass
NVNT	n20	5785	Ant1	15.921	0.5	Pass
NVNT	n20	5825	Ant1	15.02	0.5	Pass
NVNT	n40	5755	Ant1	35.067	0.5	Pass
NVNT	n40	5795	Ant1	35.072	0.5	Pass

Occupied Channel Bandwidth

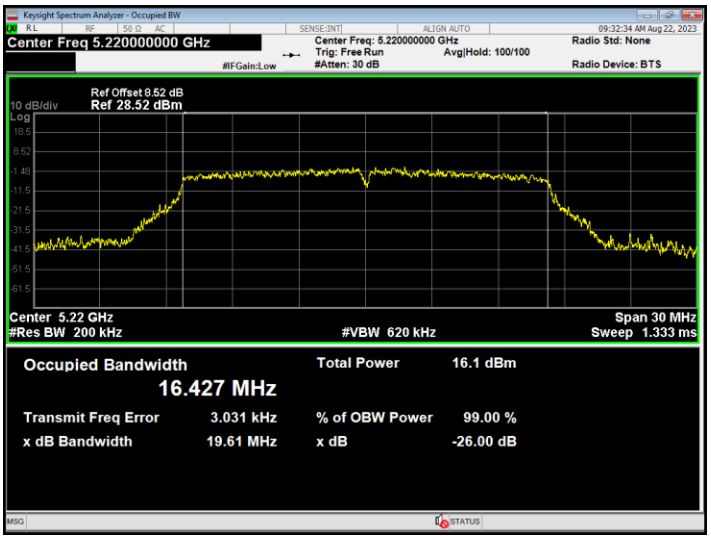
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.3645137
NVNT	a	5785	Ant1	16.34412744
NVNT	a	5825	Ant1	16.36664135
NVNT	ac20	5745	Ant1	17.5013811
NVNT	ac20	5785	Ant1	17.50439067
NVNT	ac20	5825	Ant1	17.51681388
NVNT	ac40	5755	Ant1	35.75970451
NVNT	ac40	5795	Ant1	35.82833648
NVNT	n20	5745	Ant1	17.51431363
NVNT	n20	5785	Ant1	17.52495083

NVNT	n20	5825	Ant1	17.52327601
NVNT	n40	5755	Ant1	35.81512451
NVNT	n40	5795	Ant1	35.86025041

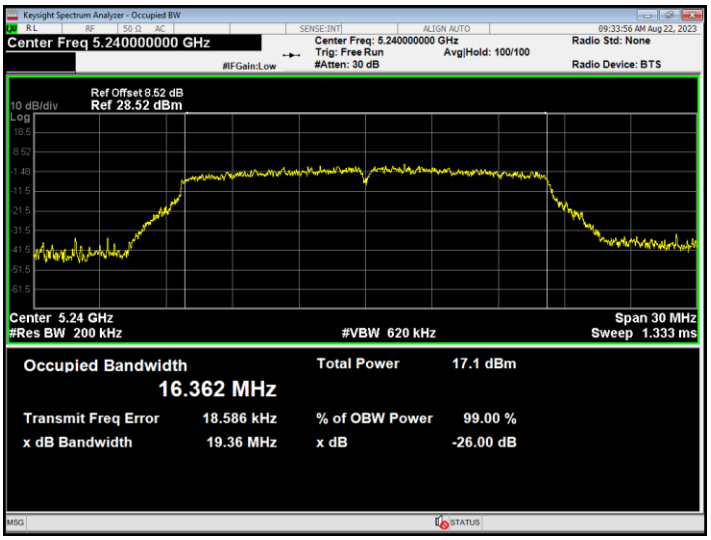
OBW NVNT a 5180MHz Ant1



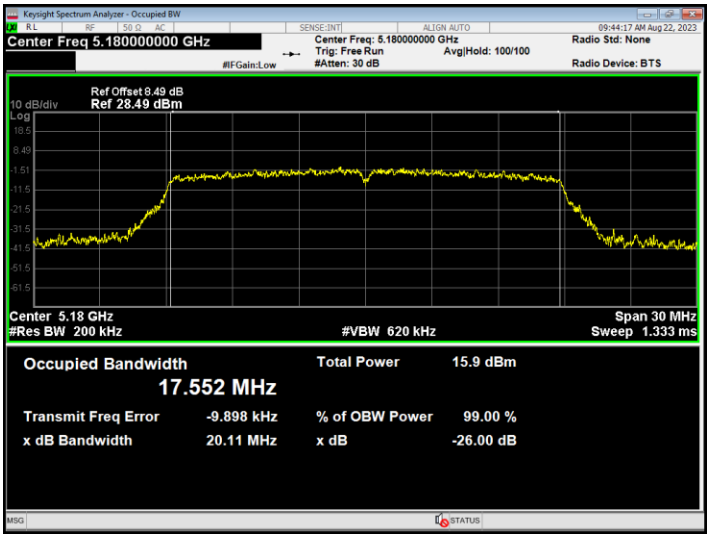
OBW NVNT a 5220MHz Ant1



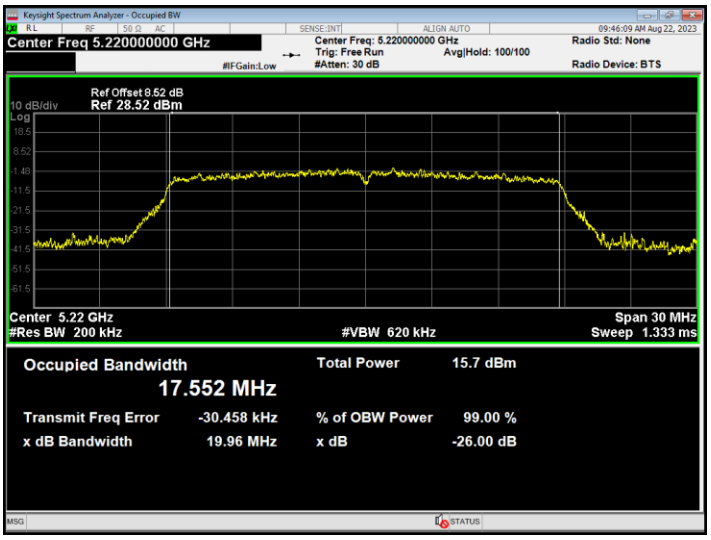
OBW NVNT a 5240MHz Ant1



OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5220MHz Ant1



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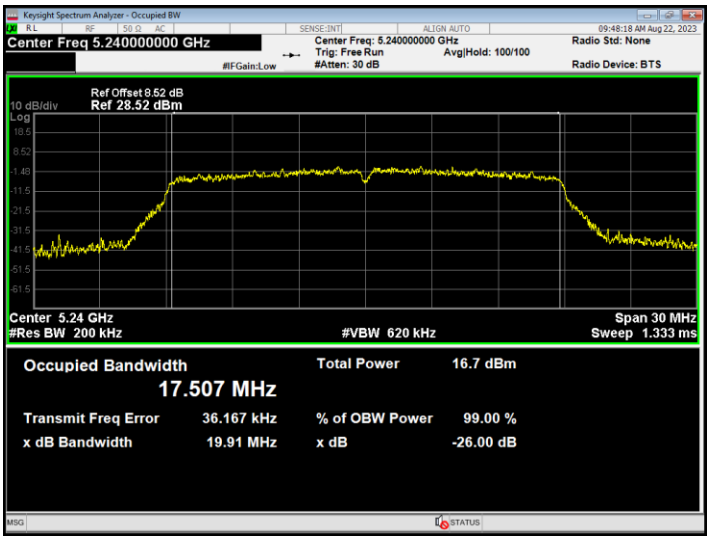
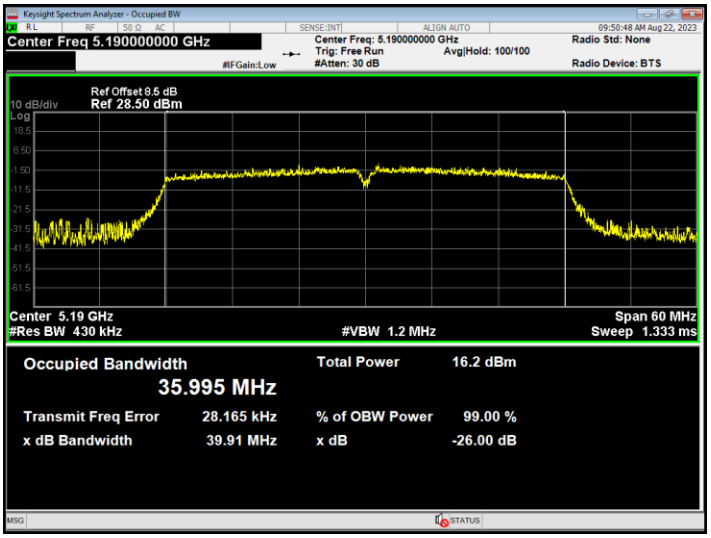
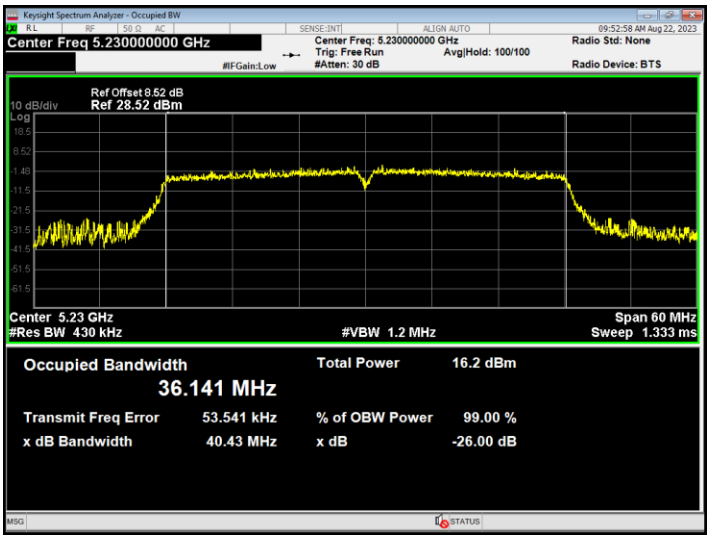


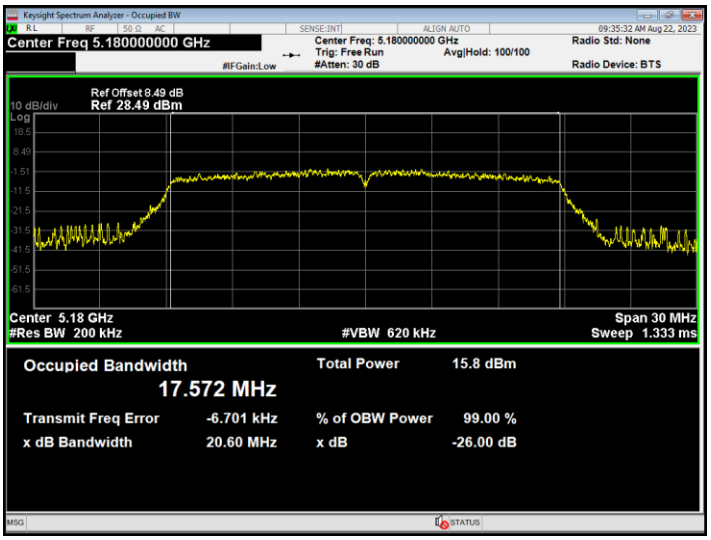
OBW NVNT ac40 5190MHz Ant1



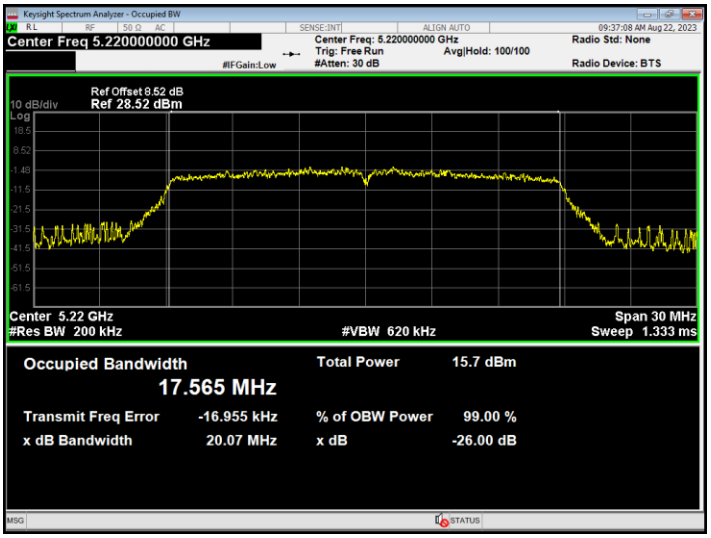
OBW NVNT ac40 5230MHz Ant1



OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5220MHz Ant1



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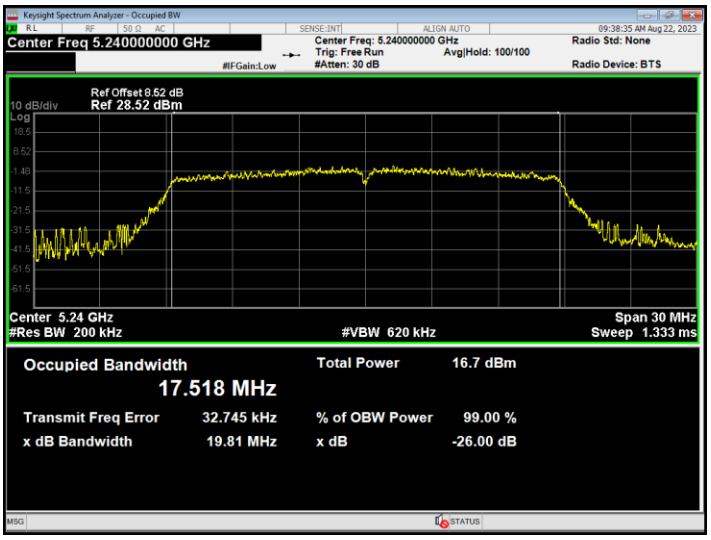
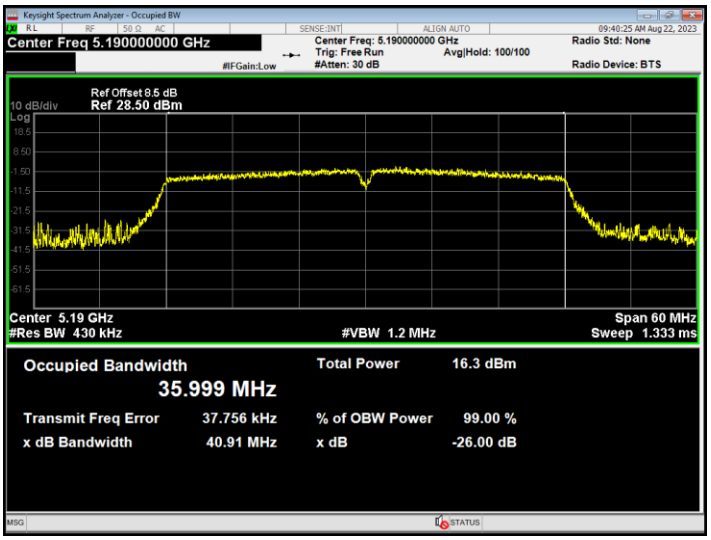
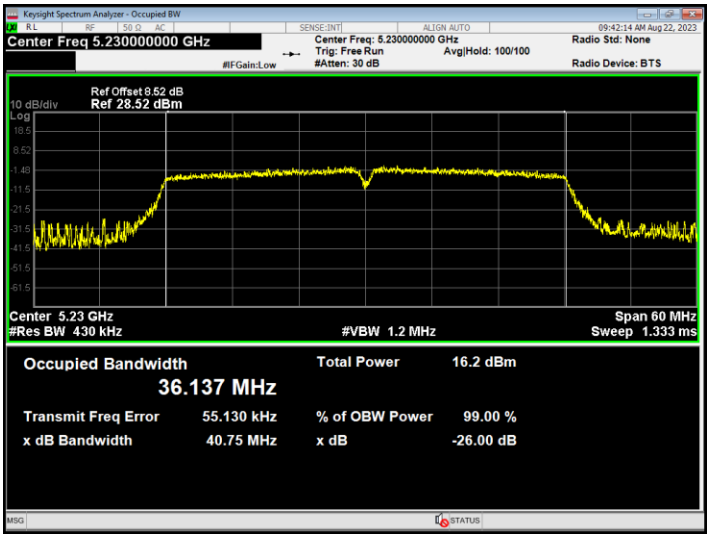


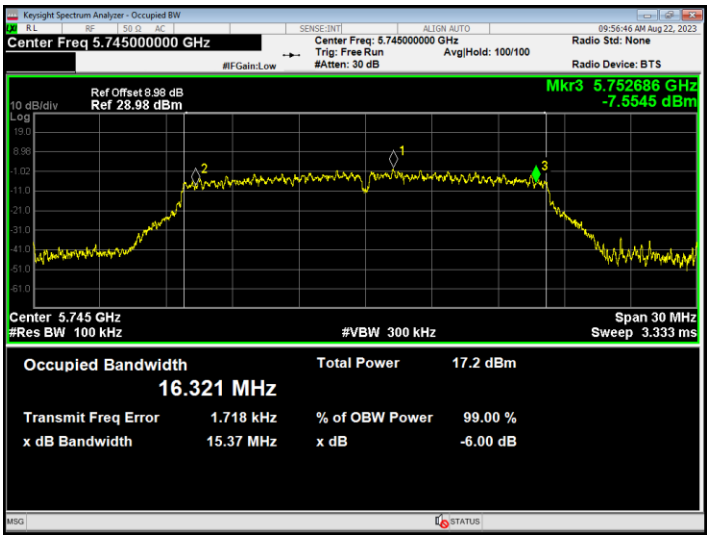
OBW NVNT n40 5190MHz Ant1



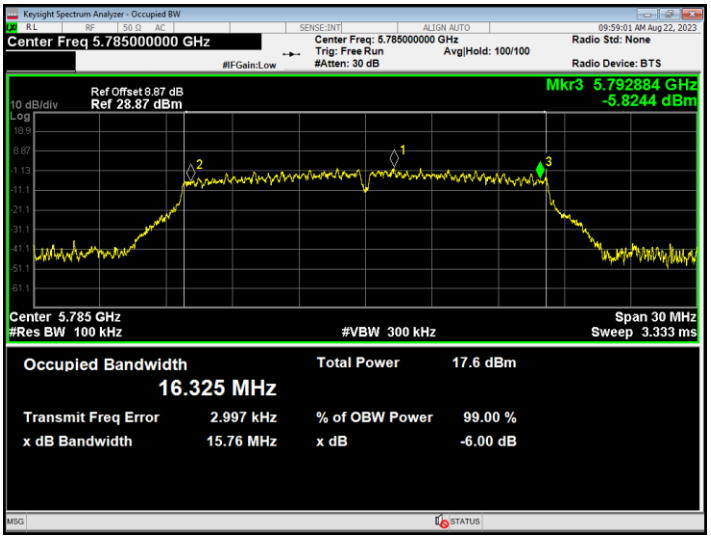
OBW NVNT n40 5230MHz Ant1



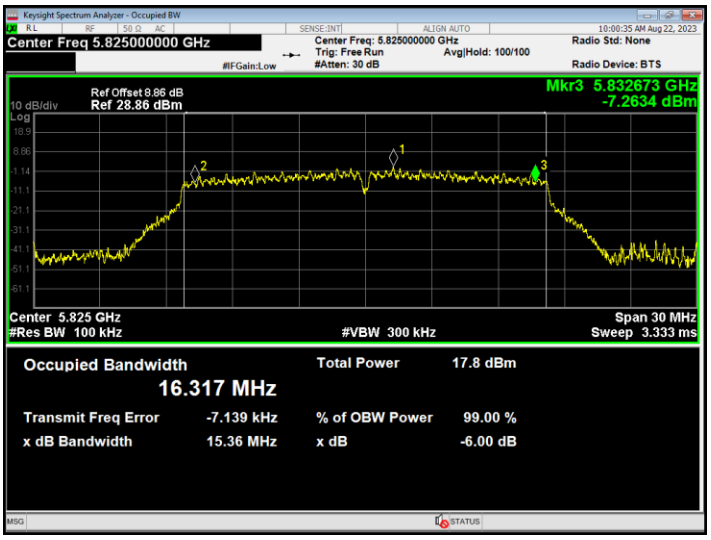
-6dB Bandwidth NVNT a 5745MHz Ant1



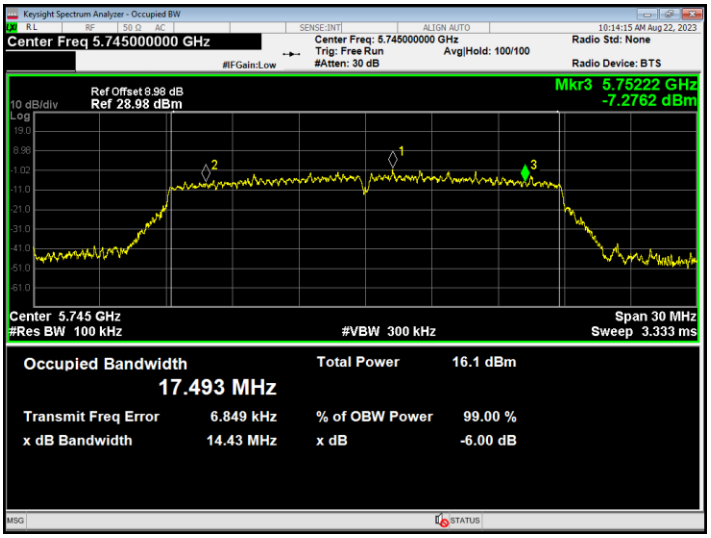
-6dB Bandwidth NVNT a 5785MHz Ant1



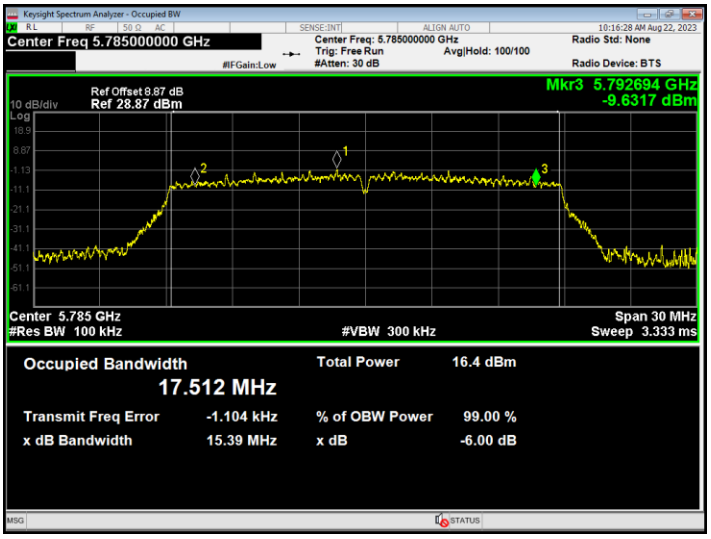
-6dB Bandwidth NVNT a 5825MHz Ant1



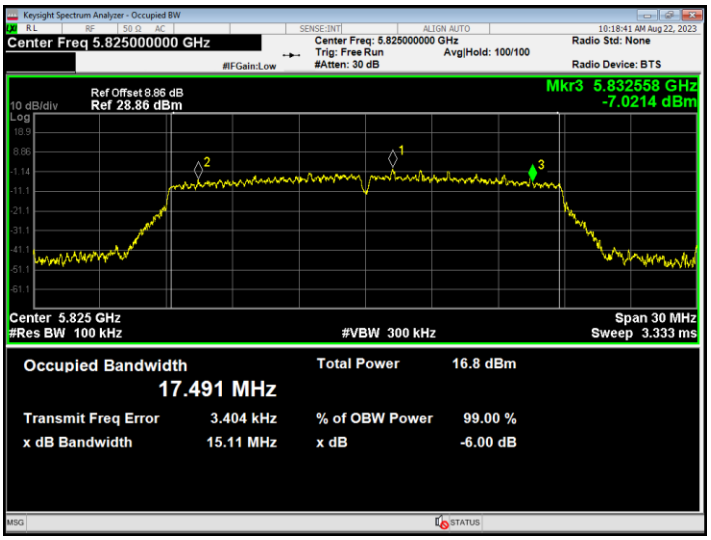
-6dB Bandwidth NVNT ac20 5745MHz Ant1



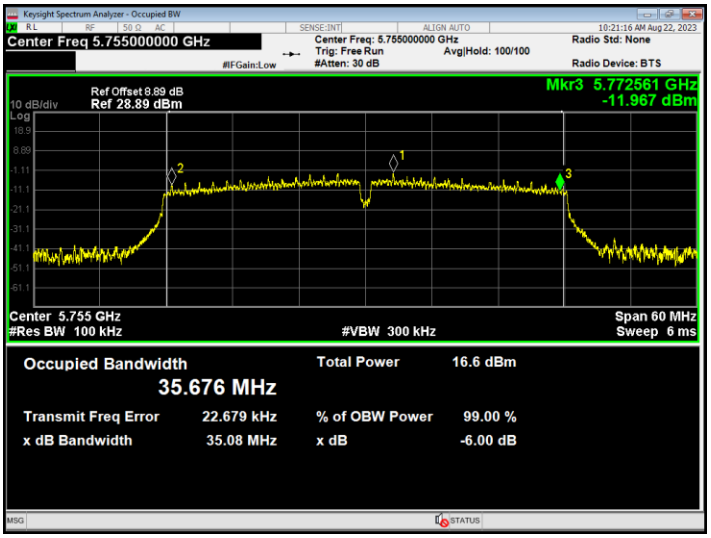
-6dB Bandwidth NVNT ac20 5785MHz Ant1



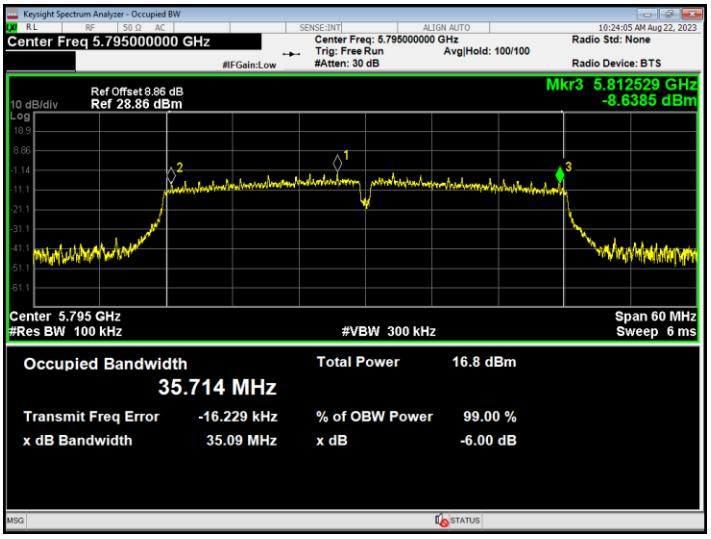
-6dB Bandwidth NVNT ac20 5825MHz Ant1



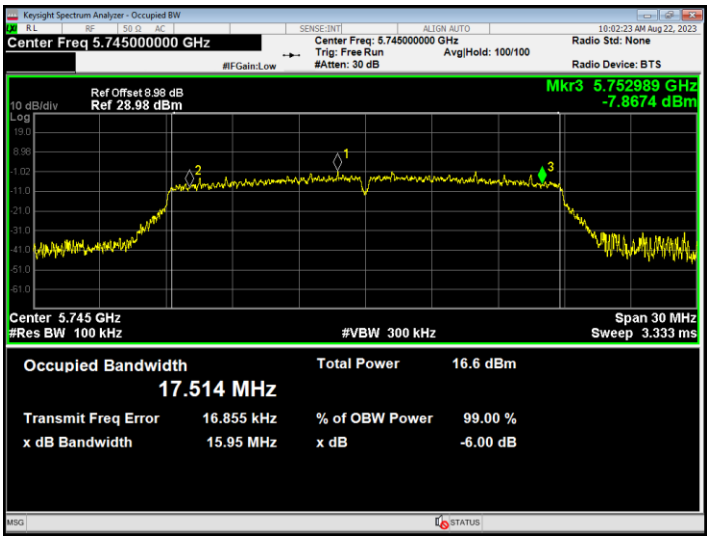
-6dB Bandwidth NVNT ac40 5755MHz Ant1



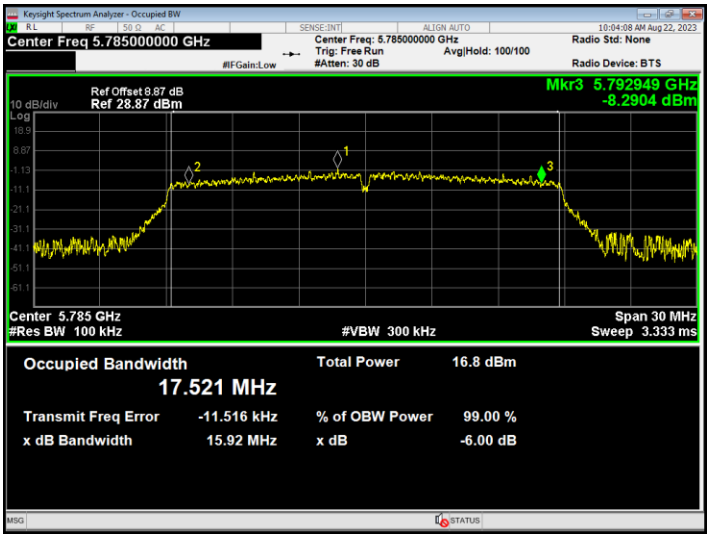
-6dB Bandwidth NVNT ac40 5795MHz Ant1



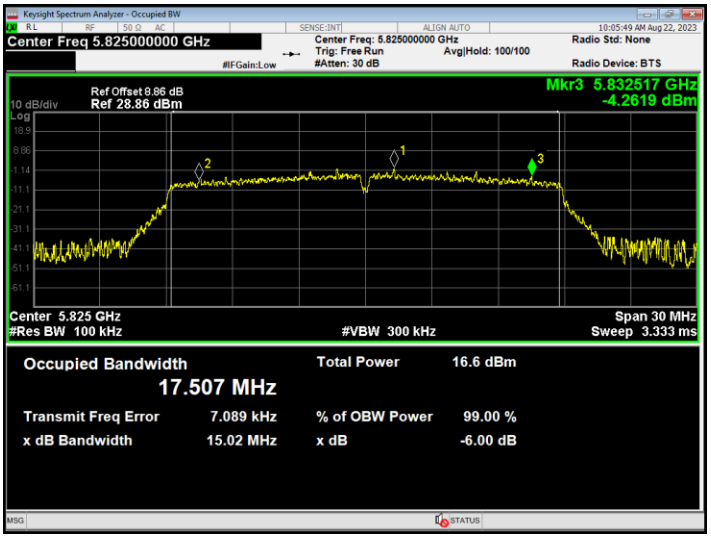
-6dB Bandwidth NVNT n20 5745MHz Ant1



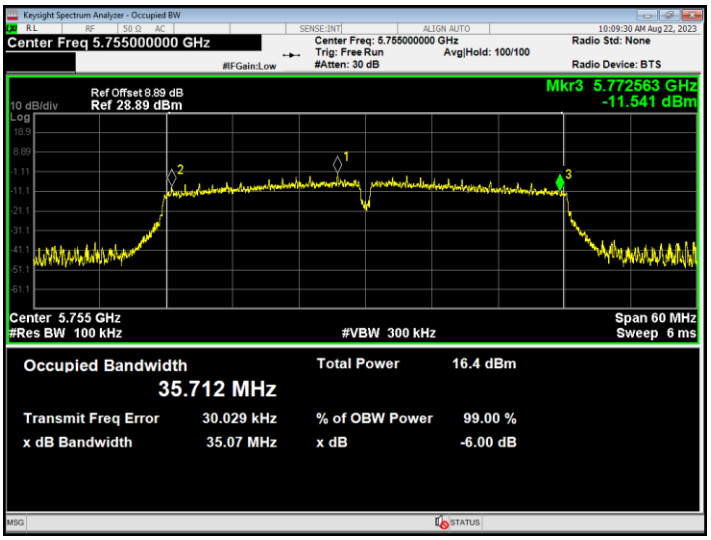
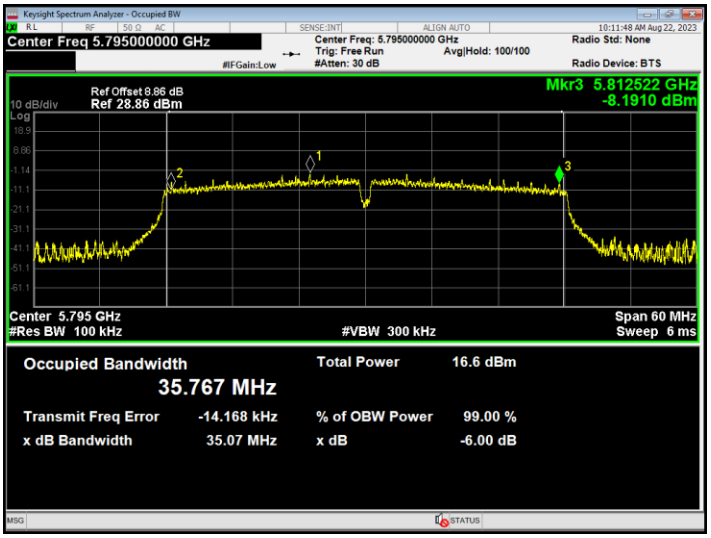
-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1