

ANNEX 2

FCC ID: 2BLUW-RM21

Applicant: FJ Dynamics Technology (Fujian) Co., Ltd.

Address: Floor 23A, Unit 2, Huajian Building, No.12, 16, and 18 East Keji Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, China

Manufacturer: FJ Dynamics Technology (Fujian) Co., Ltd.

Address: Floor 23A, Unit 2, Huajian Building, No.12, 16, and 18 East Keji Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, China

EUT: FJD Autonomous Mower

Trade Mark: N/A

Model Number: RM21, RM25, Z01

Date of Receipt: Jun. 06, 2024

Test Date: Jun. 16, 2024 - Jul. 25, 2024

Date of Report: Jul. 25, 2024

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

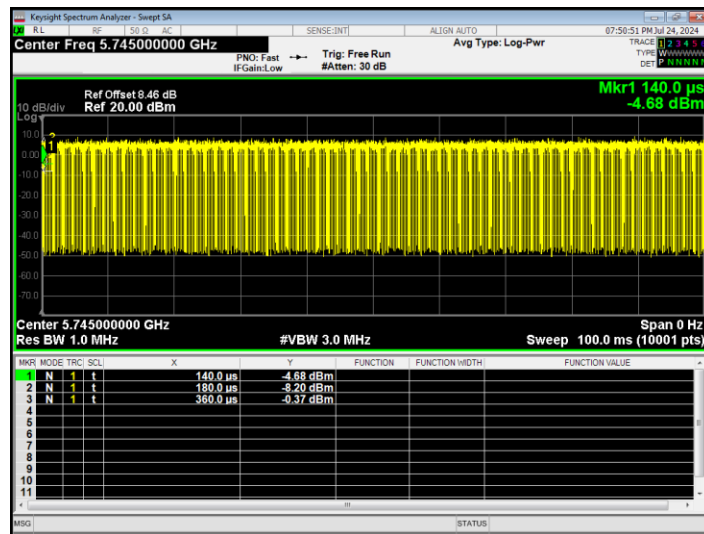
Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10:2013

Test Result: Pass

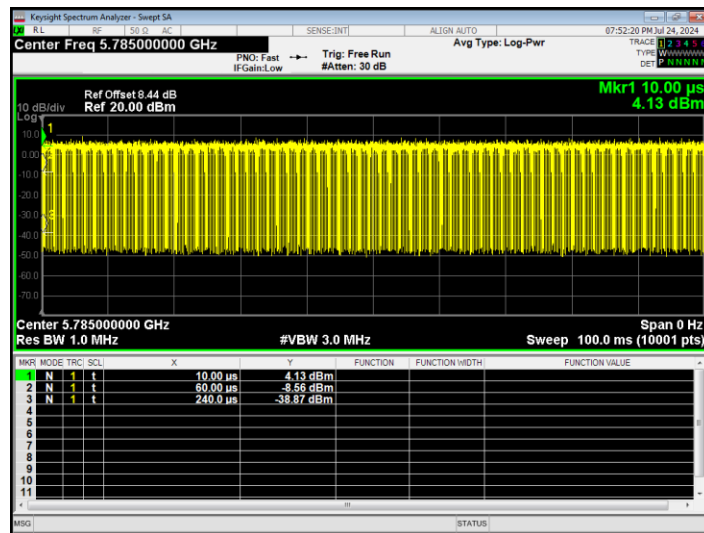
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	81.82	0.87
NVNT	a	5785	Ant1	78.26	1.06
NVNT	a	5825	Ant1	81.82	0.87
NVNT	ac20	5745	Ant1	97.04	0.13
NVNT	ac20	5785	Ant1	97.04	0.13
NVNT	ac20	5825	Ant1	96.32	0.16
NVNT	ac40	5755	Ant1	92.86	0.32
NVNT	ac40	5795	Ant1	92.86	0.32
NVNT	n20	5745	Ant1	97.01	0.13
NVNT	n20	5785	Ant1	97.01	0.13
NVNT	n20	5825	Ant1	97.01	0.13
NVNT	n40	5755	Ant1	94.2	0.26
NVNT	n40	5795	Ant1	92.86	0.32

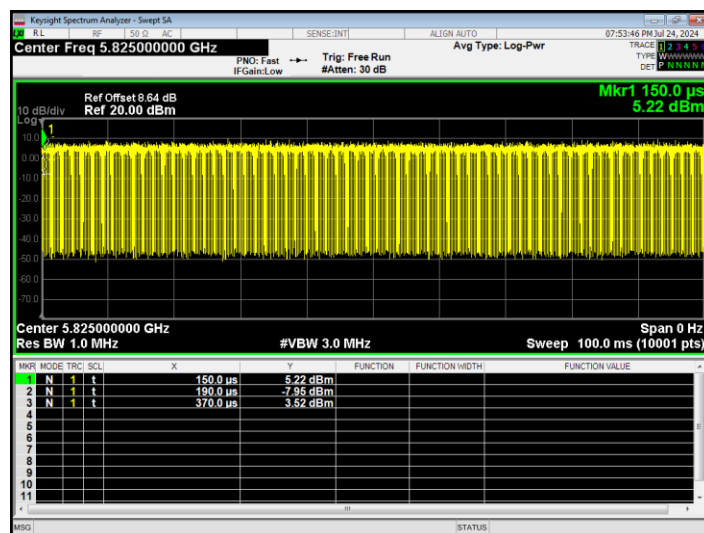
Duty Cycle NVNT a 5745MHz Ant1



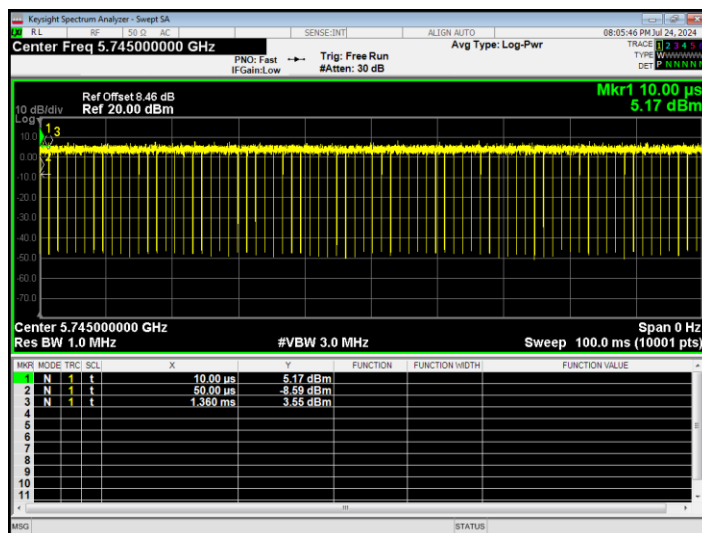
Duty Cycle NVNT a 5785MHz Ant1



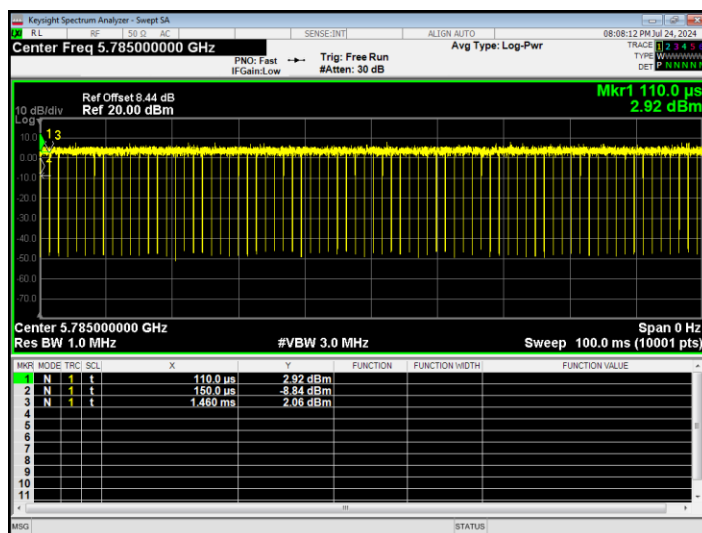
Duty Cycle NVNT a 5825MHz Ant1



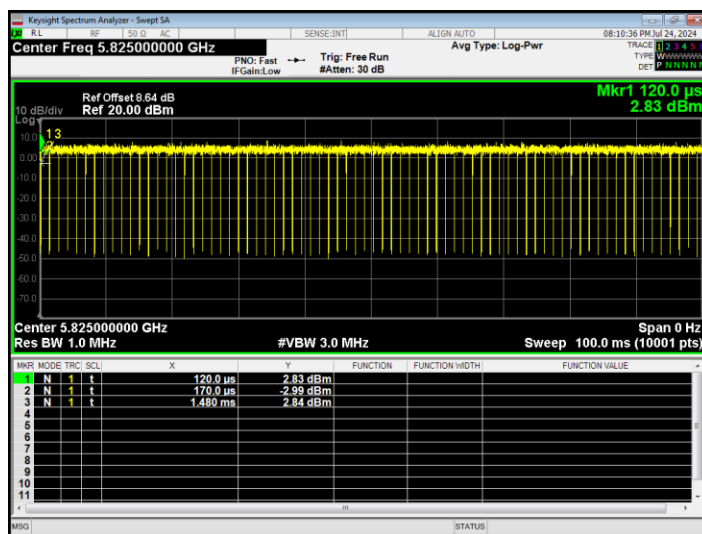
Duty Cycle NVNT ac20 5745MHz Ant1



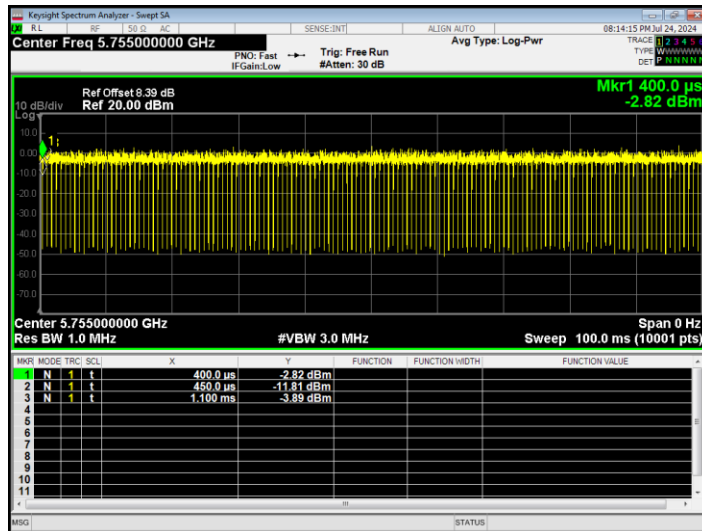
Duty Cycle NVNT ac20 5785MHz Ant1



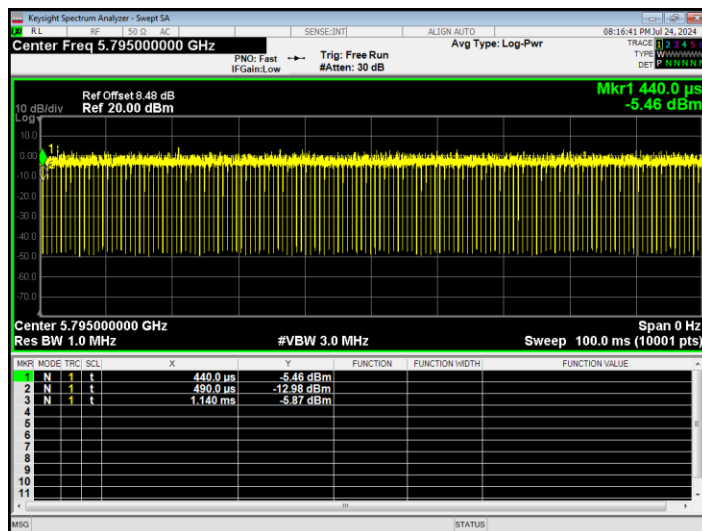
Duty Cycle NVNT ac20 5825MHz Ant1



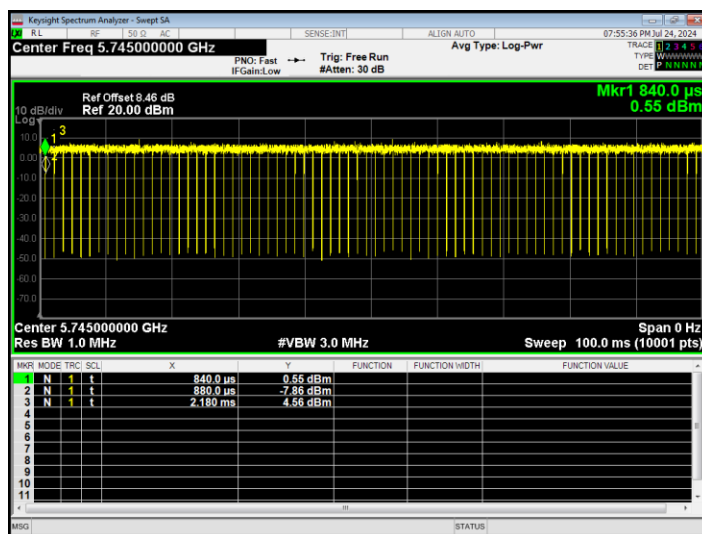
Duty Cycle NVNT ac40 5755MHz Ant1



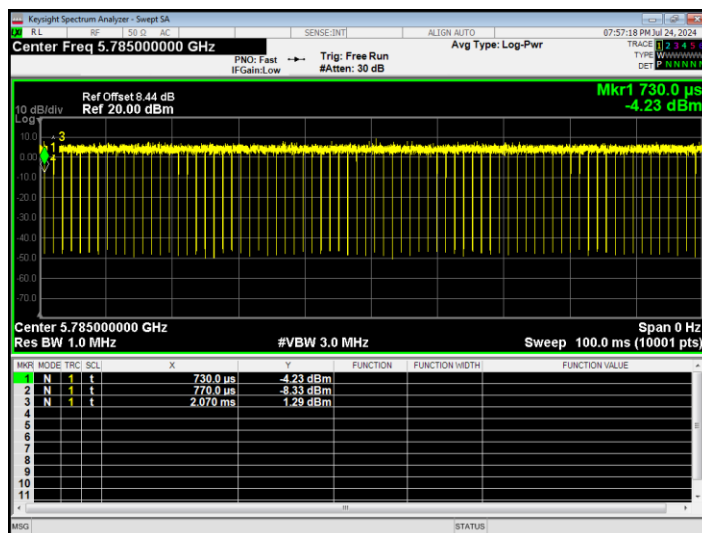
Duty Cycle NVNT ac40 5795MHz Ant1



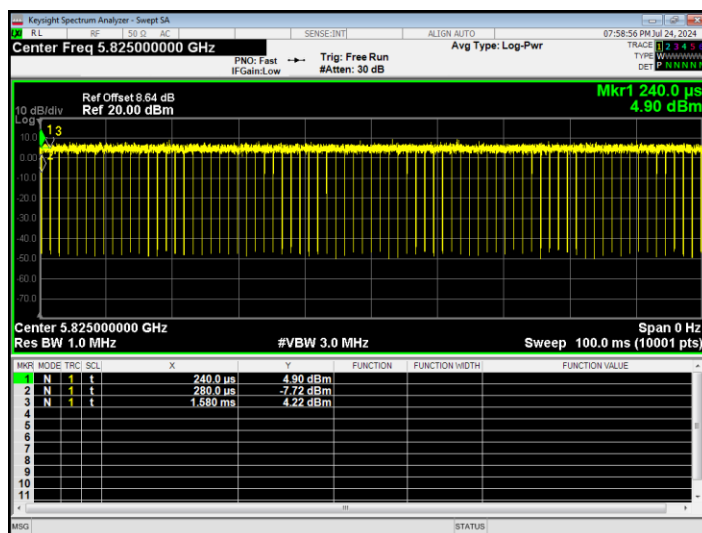
Duty Cycle NVNT n20 5745MHz Ant1



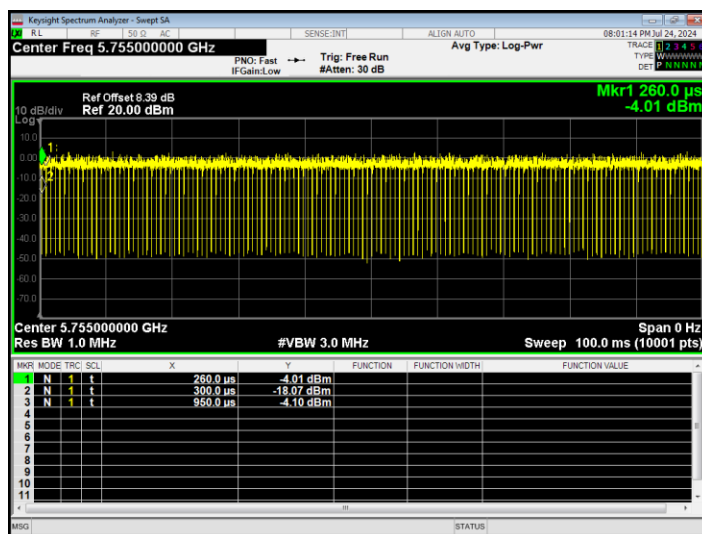
Duty Cycle NVNT n20 5785MHz Ant1



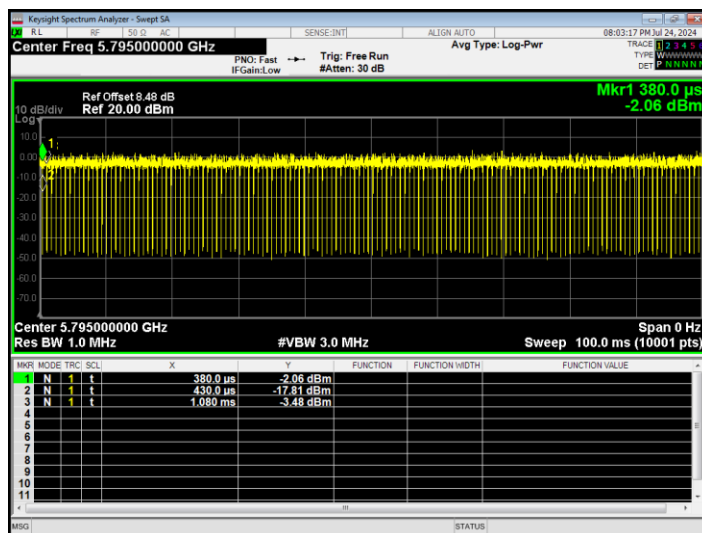
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



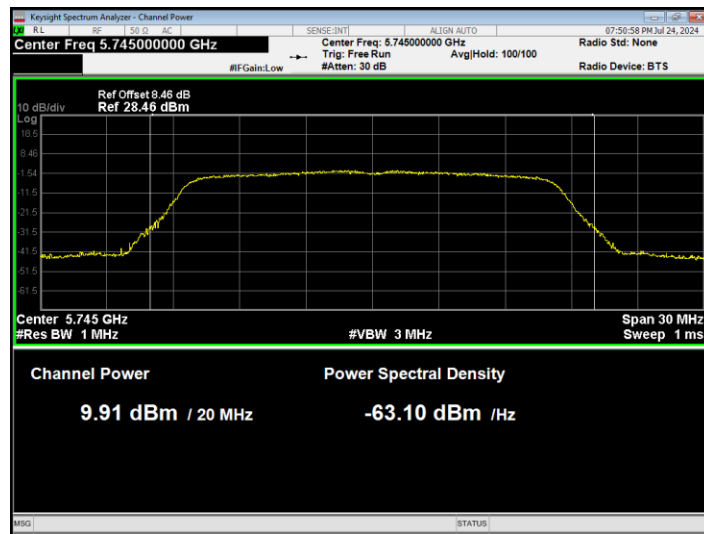
Duty Cycle NVNT n40 5795MHz Ant1



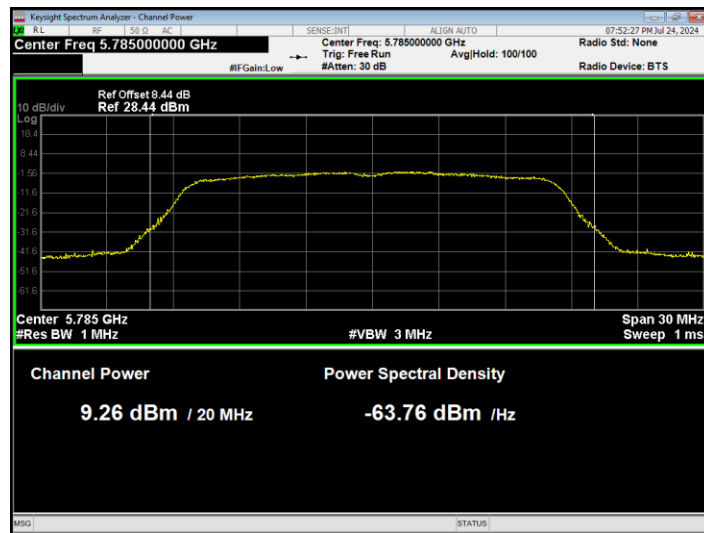
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.914	0.87	10.784	30	Pass
NVNT	a	5785	Ant1	9.255	1.06	10.315	30	Pass
NVNT	a	5825	Ant1	9.817	0.87	10.687	30	Pass
NVNT	ac20	5745	Ant1	9.991	0.13	10.121	30	Pass
NVNT	ac20	5785	Ant1	9.499	0.13	9.629	30	Pass
NVNT	ac20	5825	Ant1	10.039	0.16	10.199	30	Pass
NVNT	ac40	5755	Ant1	9.557	0.32	9.877	30	Pass
NVNT	ac40	5795	Ant1	9.585	0.32	9.905	30	Pass
NVNT	n20	5745	Ant1	10.643	0.13	10.773	30	Pass
NVNT	n20	5785	Ant1	10.2	0.13	10.33	30	Pass
NVNT	n20	5825	Ant1	10.698	0.13	10.828	30	Pass
NVNT	n40	5755	Ant1	9.588	0.26	9.848	30	Pass
NVNT	n40	5795	Ant1	9.553	0.32	9.873	30	Pass

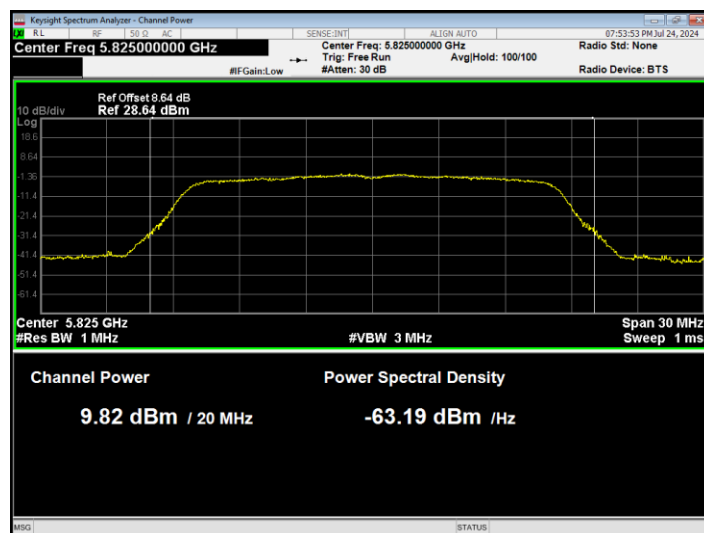
Power NVNT a 5745MHz Ant1



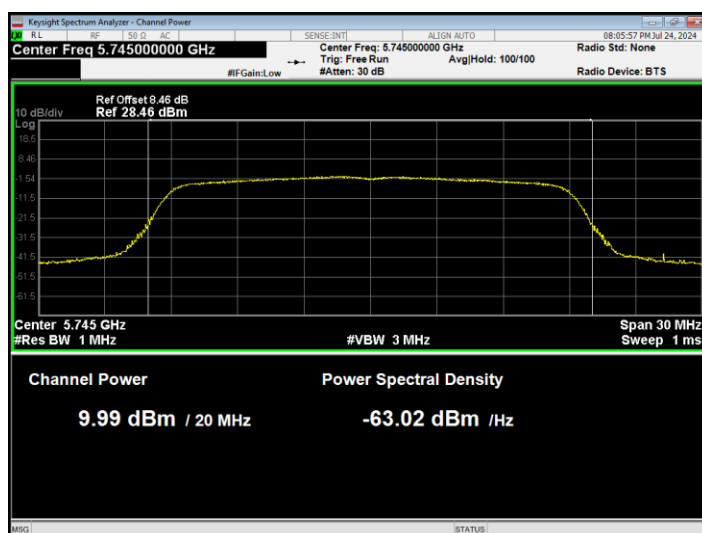
Power NVNT a 5785MHz Ant1



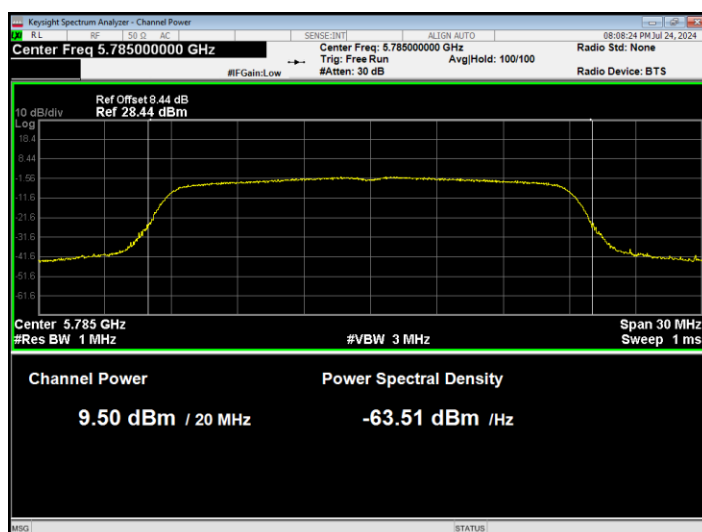
Power NVNT a 5825MHz Ant1



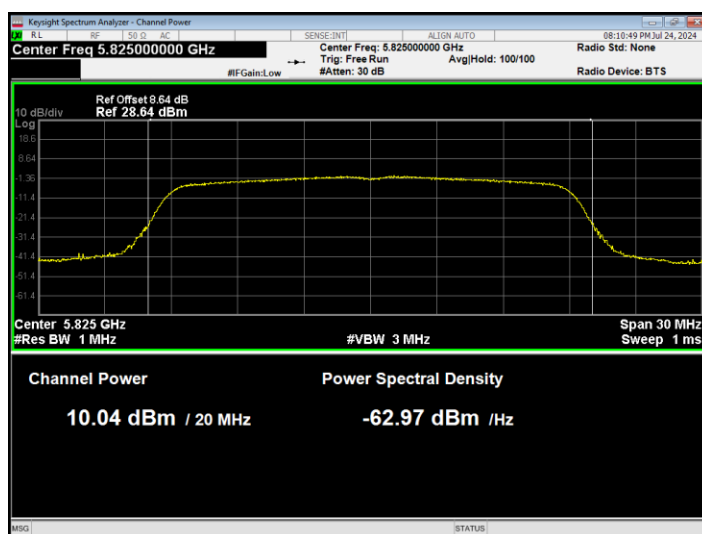
Power NVNT ac20 5745MHz Ant1



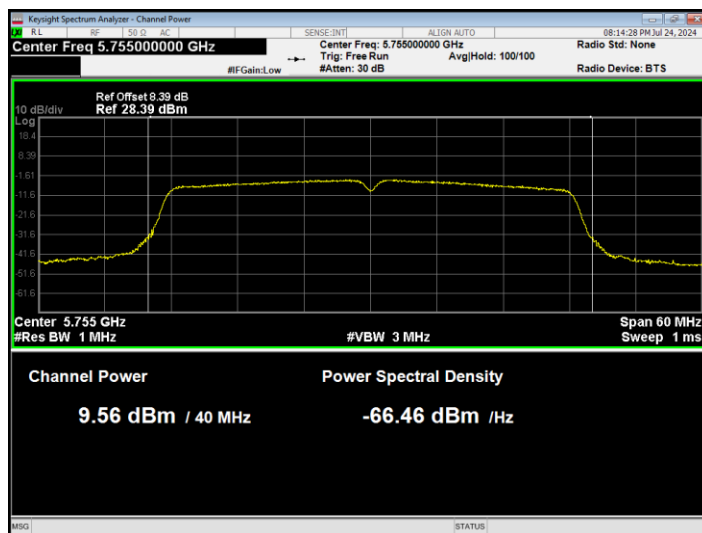
Power NVNT ac20 5785MHz Ant1



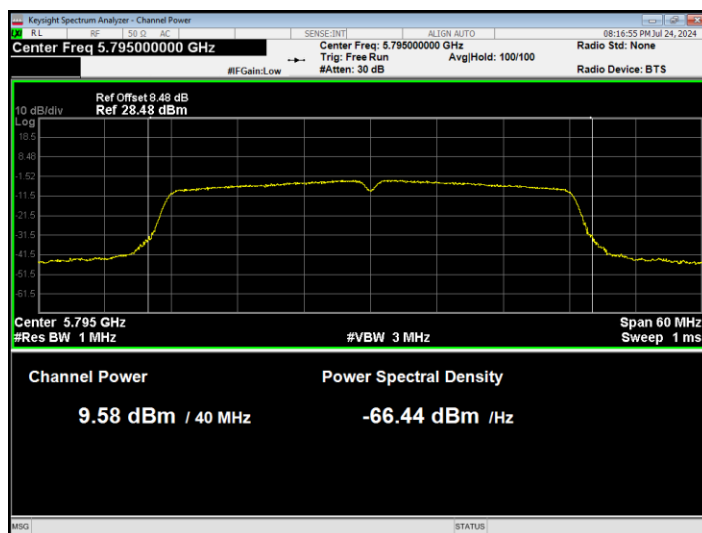
Power NVNT ac20 5825MHz Ant1



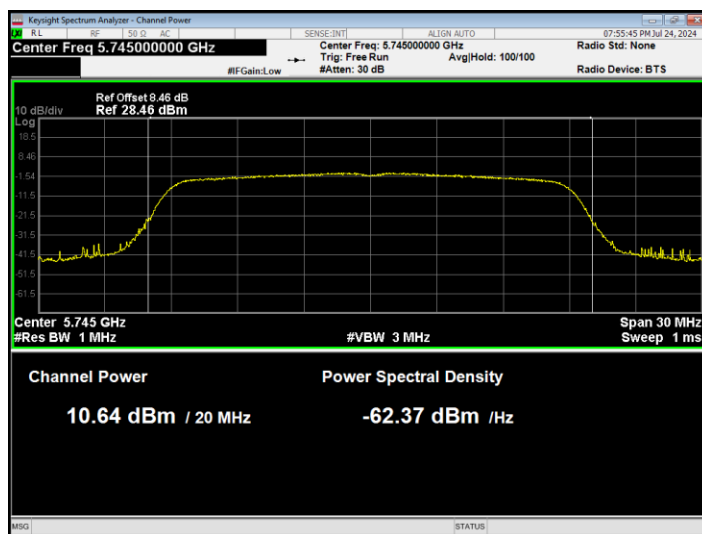
Power NVNT ac40 5755MHz Ant1



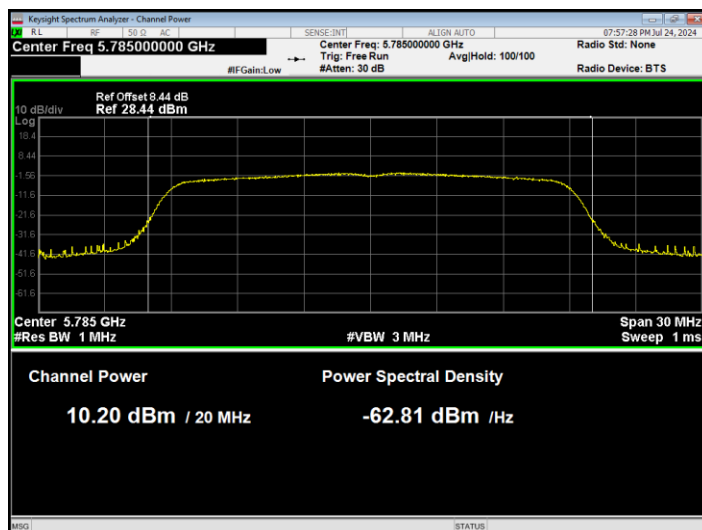
Power NVNT ac40 5795MHz Ant1



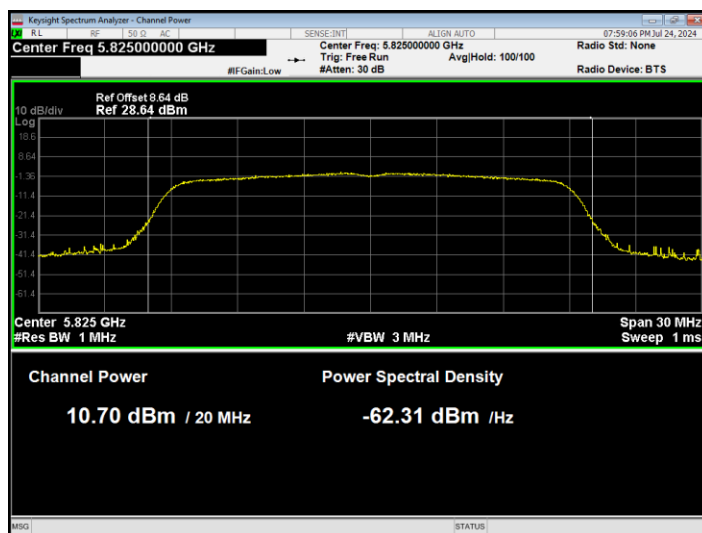
Power NVNT n20 5745MHz Ant1



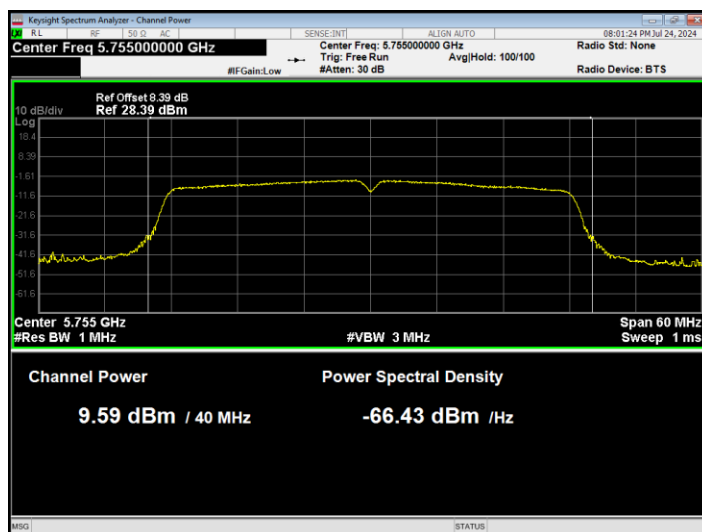
Power NVNT n20 5785MHz Ant1



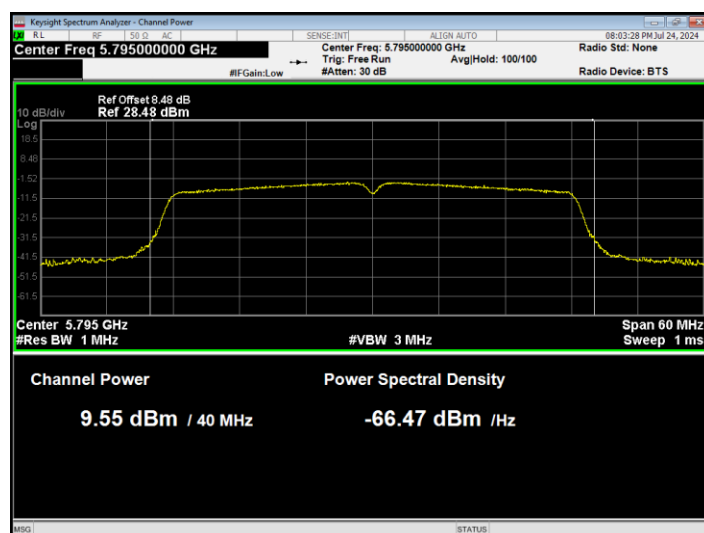
Power NVNT n20 5825MHz Ant1



Power NVNT n40 5755MHz Ant1



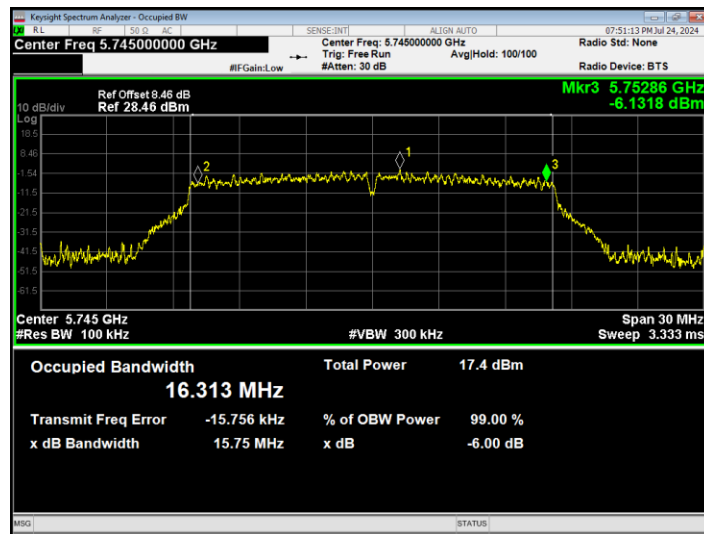
Power NVNT n40 5795MHz Ant1



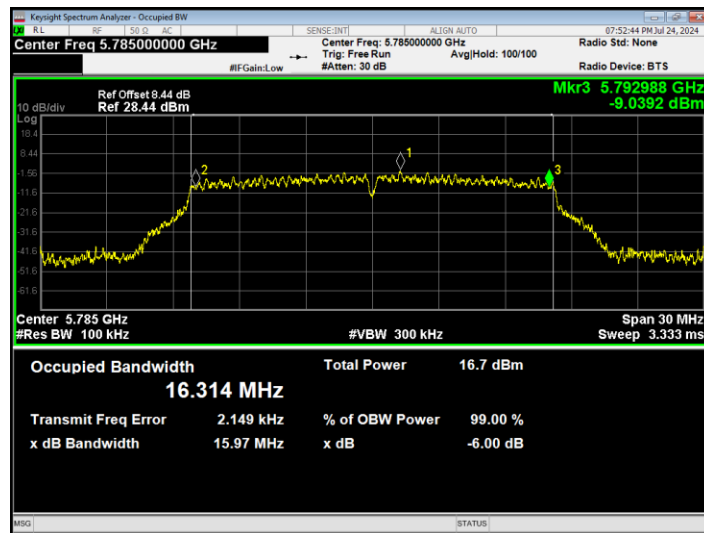
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.751	0.5	Pass
NVNT	a	5785	Ant1	15.972	0.5	Pass
NVNT	a	5825	Ant1	15.404	0.5	Pass
NVNT	ac20	5745	Ant1	15.018	0.5	Pass
NVNT	ac20	5785	Ant1	16.272	0.5	Pass
NVNT	ac20	5825	Ant1	15.114	0.5	Pass
NVNT	ac40	5755	Ant1	35.1	0.5	Pass
NVNT	ac40	5795	Ant1	33.797	0.5	Pass
NVNT	n20	5745	Ant1	14.459	0.5	Pass
NVNT	n20	5785	Ant1	15.09	0.5	Pass
NVNT	n20	5825	Ant1	15.125	0.5	Pass
NVNT	n40	5755	Ant1	35.088	0.5	Pass
NVNT	n40	5795	Ant1	33.853	0.5	Pass

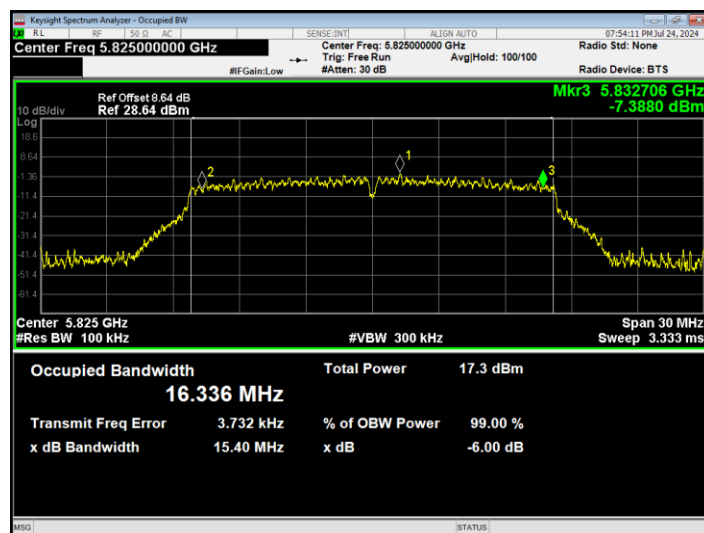
-6dB Bandwidth NVNT a 5745MHz Ant1



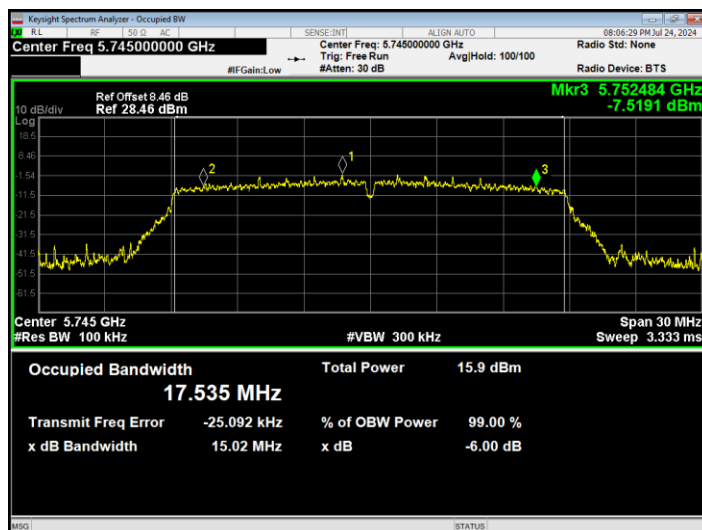
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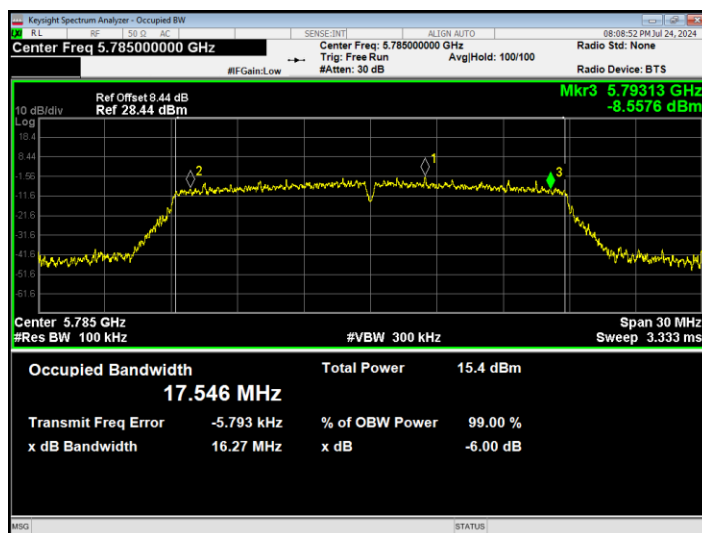
-6dB Bandwidth NVNT a 5825MHz Ant1



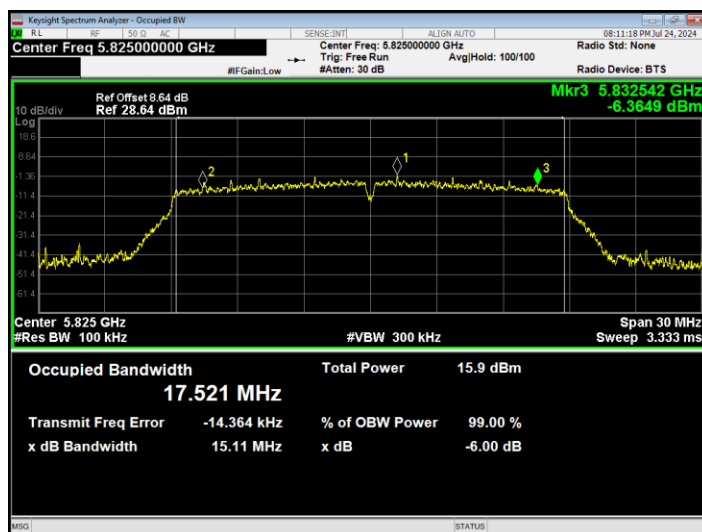
-6dB Bandwidth NVNT ac20 5745MHz Ant1



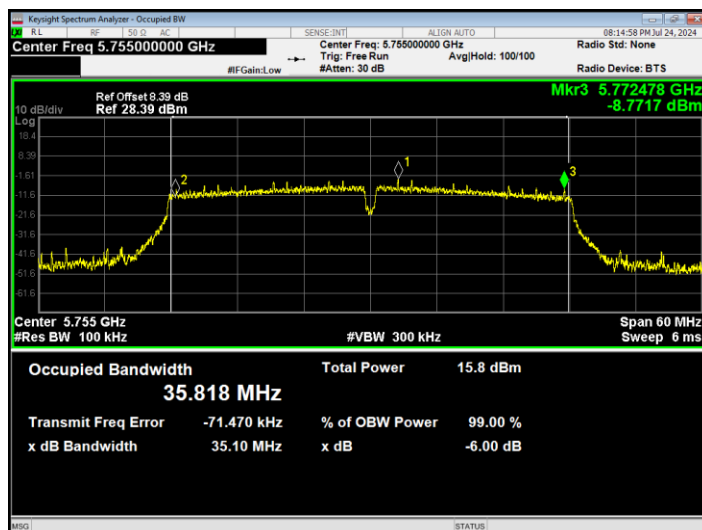
-6dB Bandwidth NVNT ac20 5785MHz Ant1



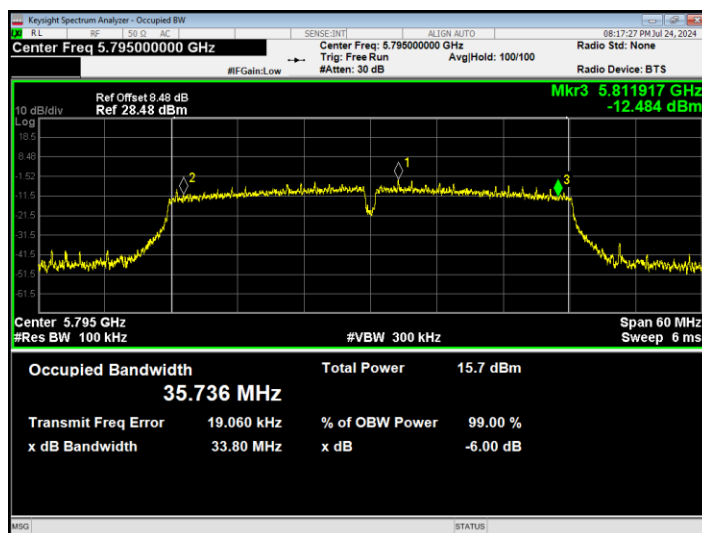
-6dB Bandwidth NVNT ac20 5825MHz Ant1



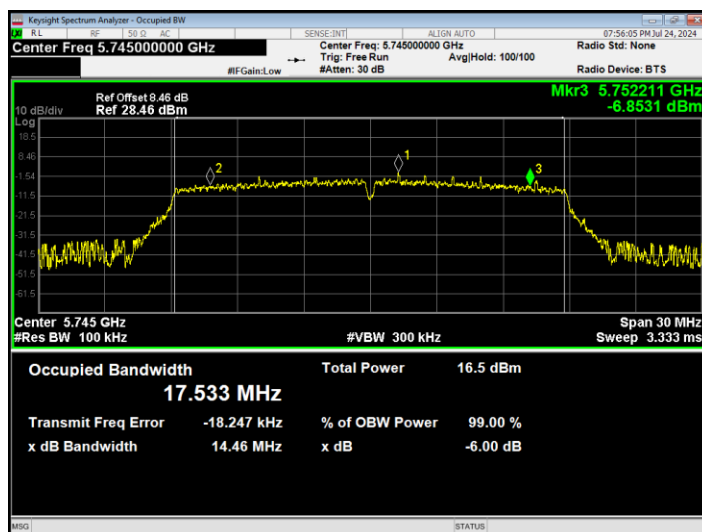
-6dB Bandwidth NVNT ac40 5755MHz Ant1



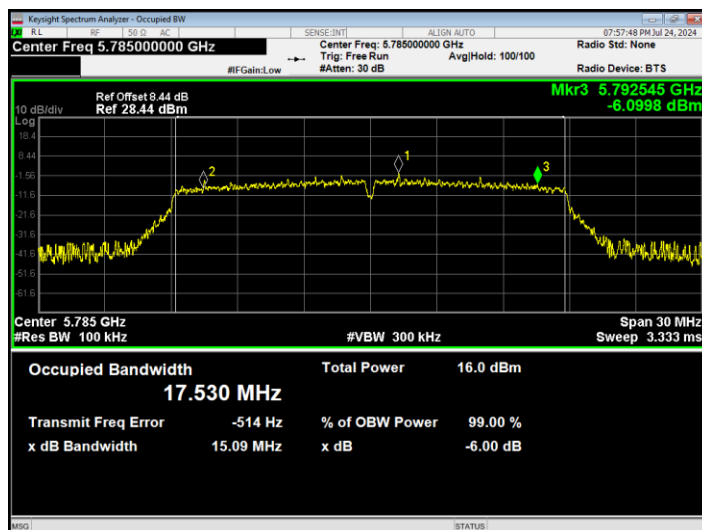
-6dB Bandwidth NVNT ac40 5795MHz Ant1



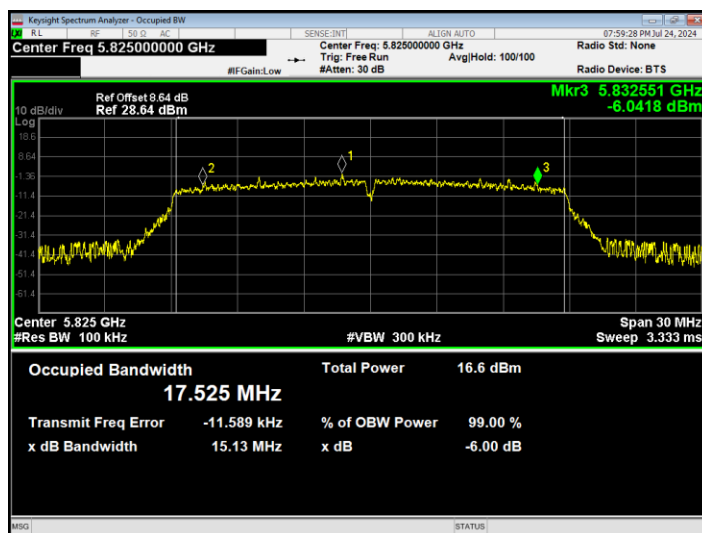
-6dB Bandwidth NVNT n20 5745MHz Ant1



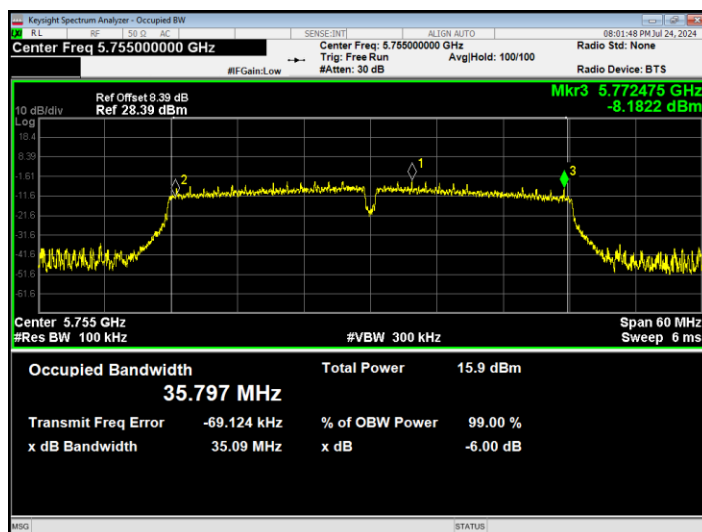
-6dB Bandwidth NVNT n20 5785MHz Ant1



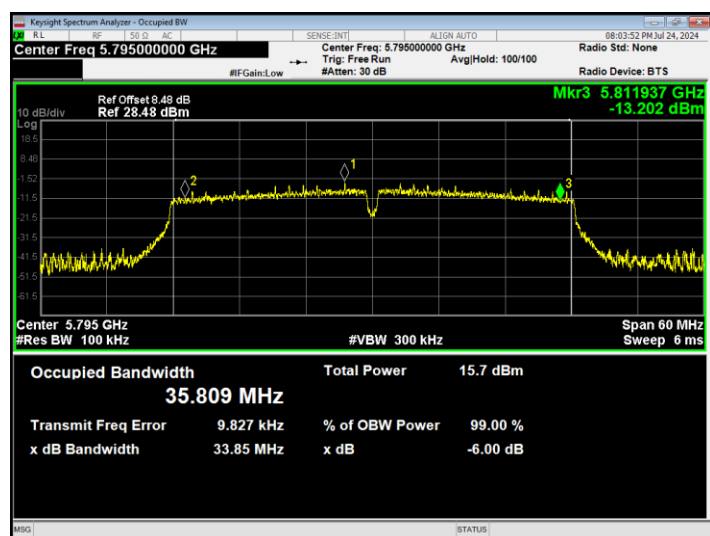
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



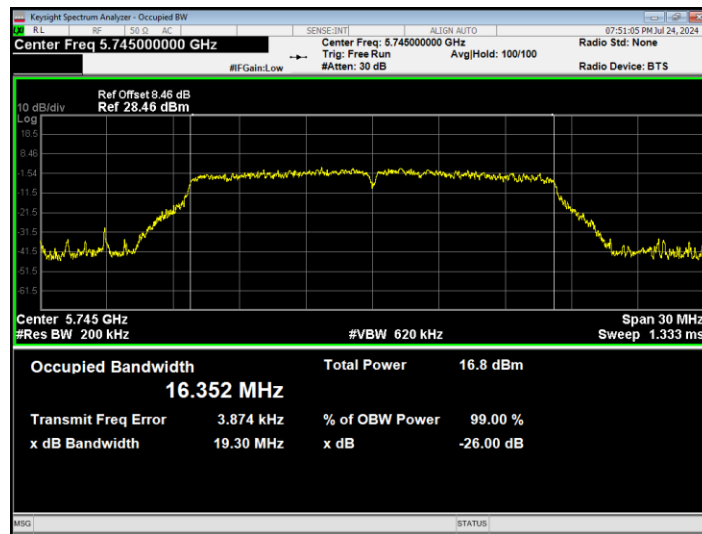
-6dB Bandwidth NVNT n40 5795MHz Ant1



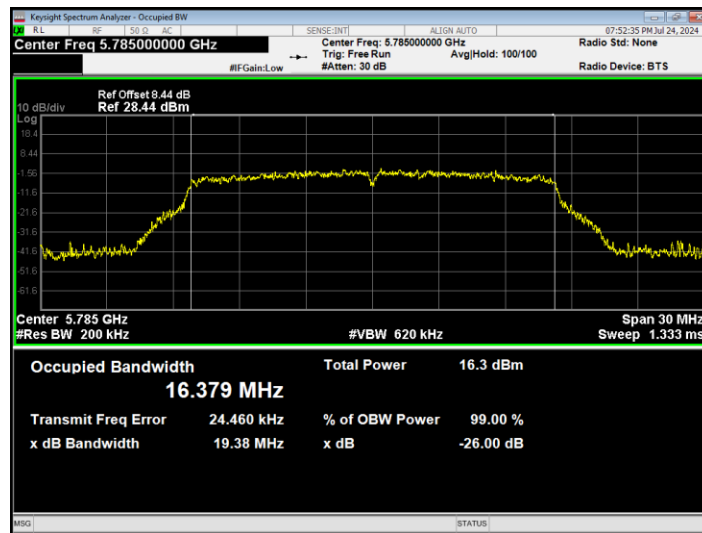
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.35247873
NVNT	a	5785	Ant1	16.37941047
NVNT	a	5825	Ant1	16.34609425
NVNT	ac20	5745	Ant1	17.54925135
NVNT	ac20	5785	Ant1	17.54750074
NVNT	ac20	5825	Ant1	17.54418809
NVNT	ac40	5755	Ant1	35.92893105
NVNT	ac40	5795	Ant1	35.92486671
NVNT	n20	5745	Ant1	17.55190237
NVNT	n20	5785	Ant1	17.54221876
NVNT	n20	5825	Ant1	17.54058552
NVNT	n40	5755	Ant1	35.89804638
NVNT	n40	5795	Ant1	35.93424334

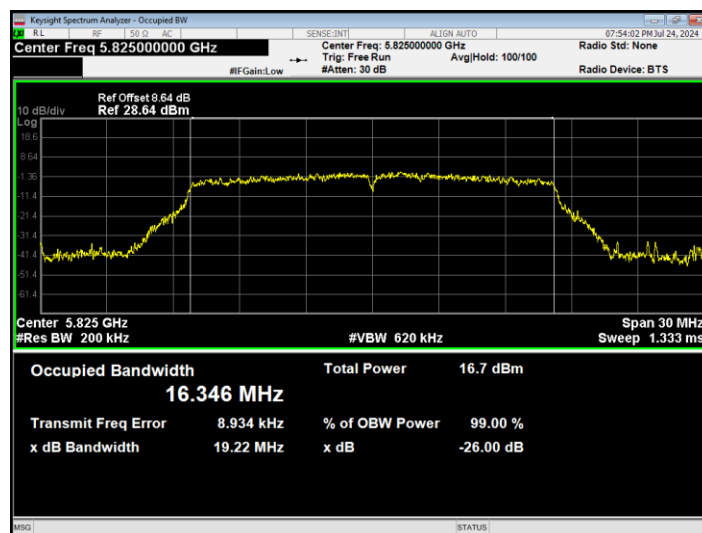
OBW NVNT a 5745MHz Ant1



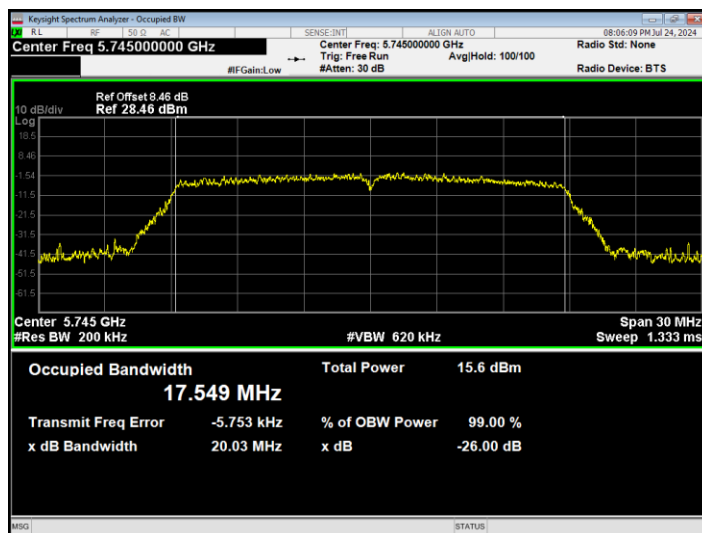
OBW NVNT a 5785MHz Ant1



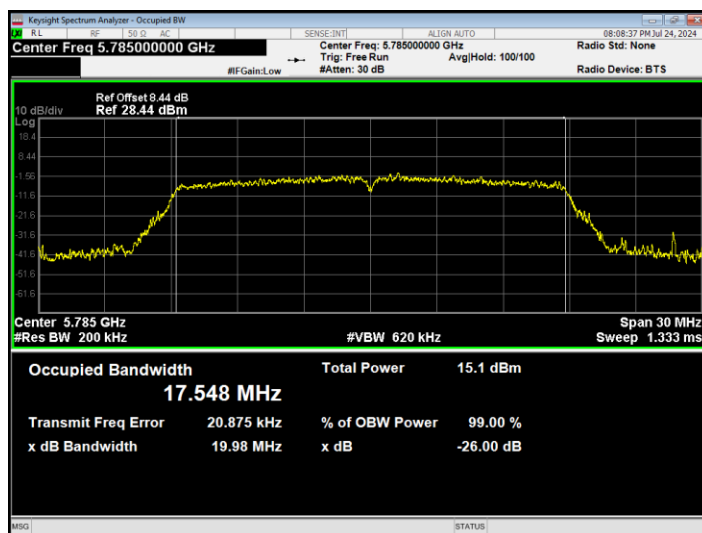
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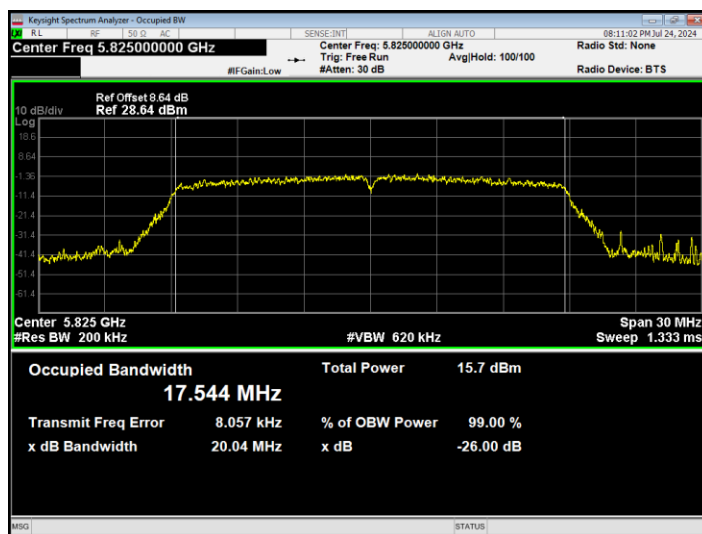
OBW NVNT ac20 5745MHz Ant1



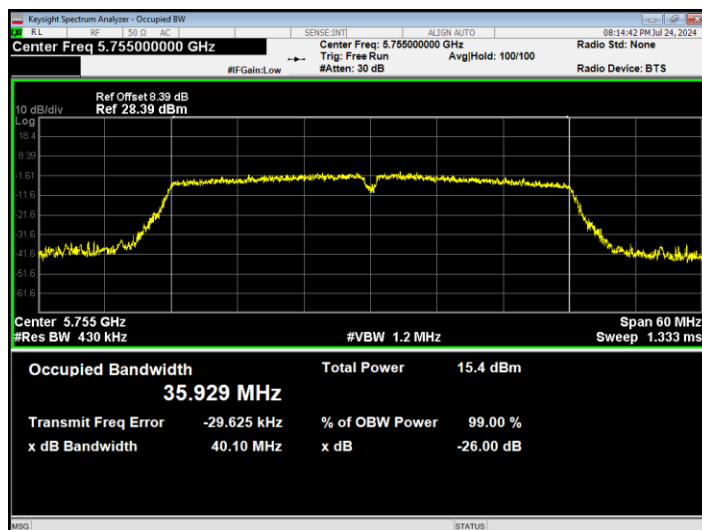
OBW NVNT ac20 5785MHz Ant1



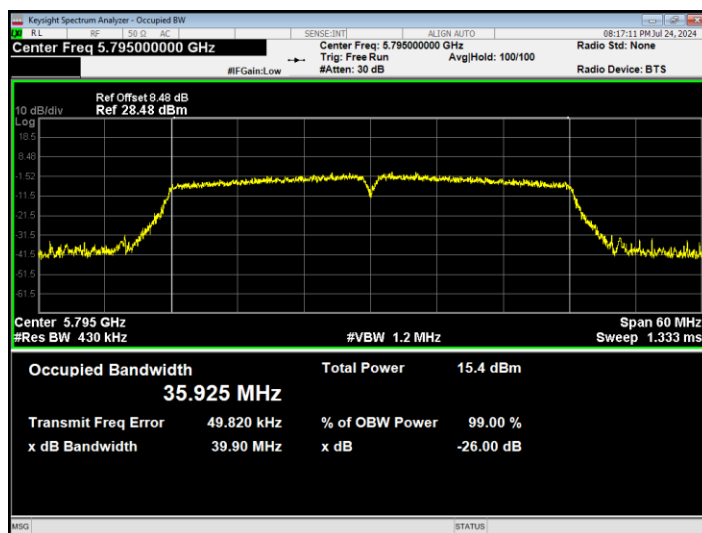
OBW NVNT ac20 5825MHz Ant1



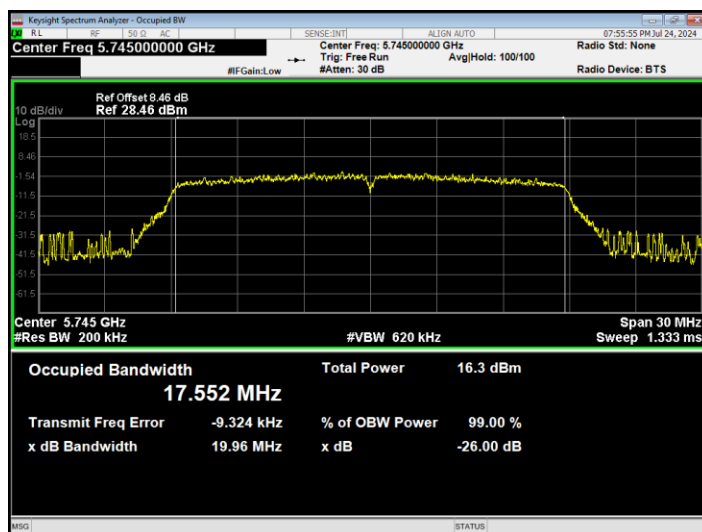
OBW NVNT ac40 5755MHz Ant1



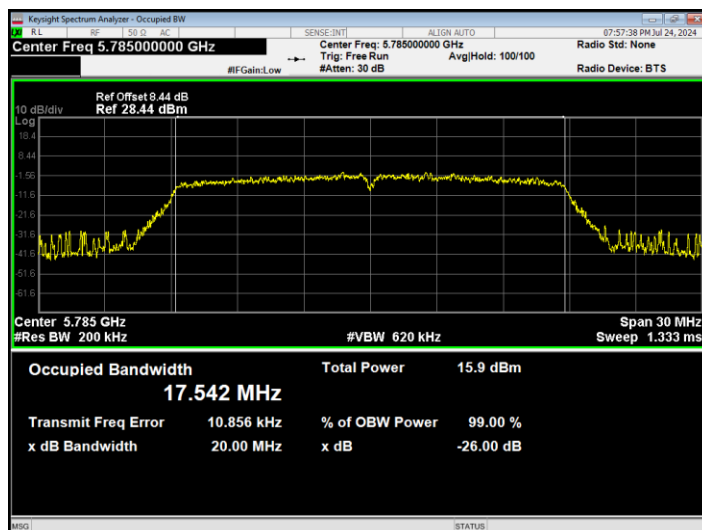
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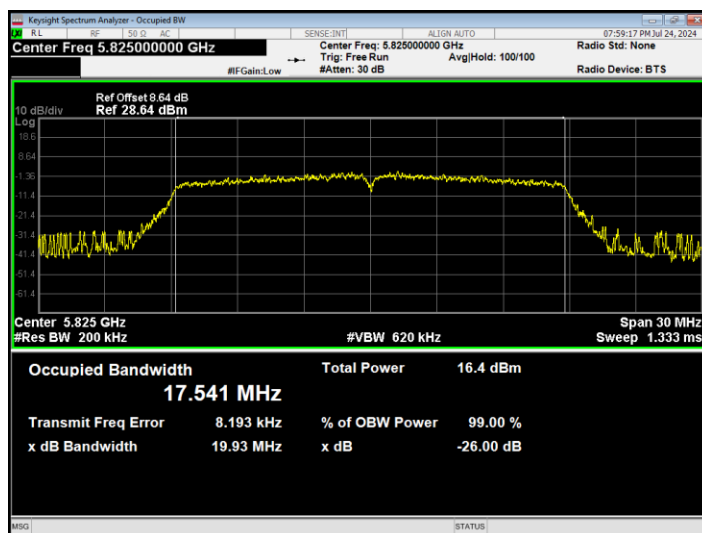
OBW NVNT n20 5745MHz Ant1



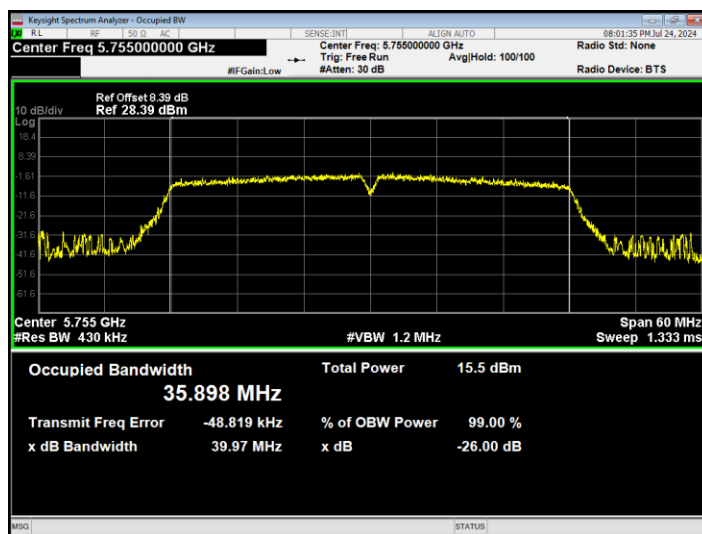
OBW NVNT n20 5785MHz Ant1



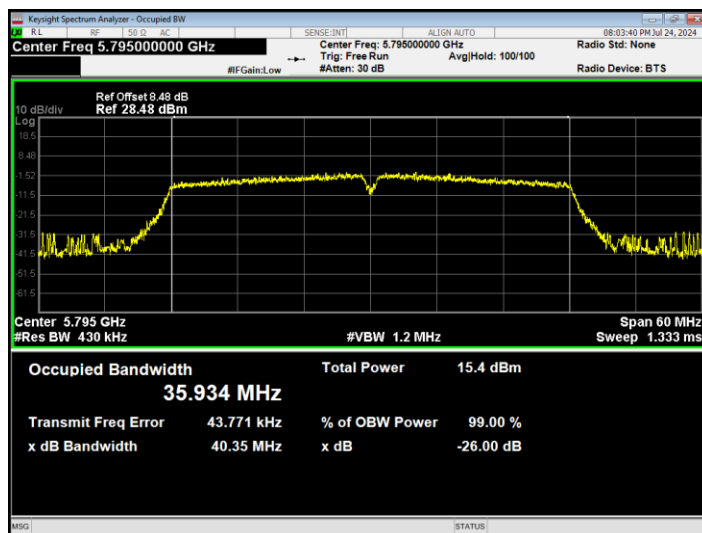
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



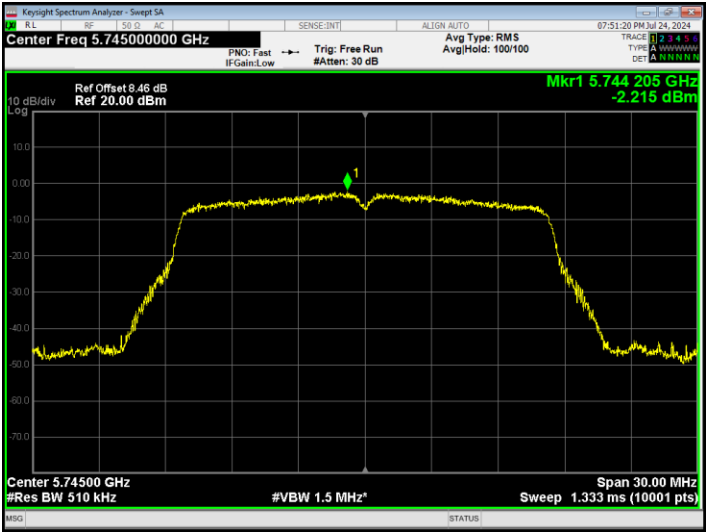
OBW NVNT n40 5795MHz Ant1



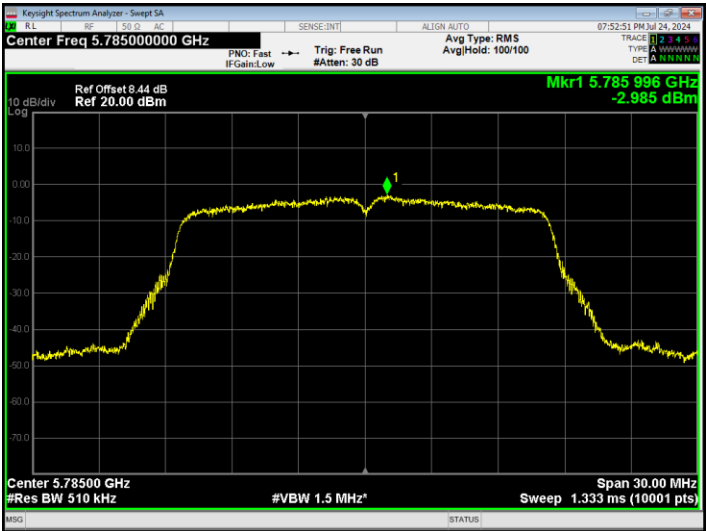
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-2.215	0.87	-1.345	30	Pass
NVNT	a	5785	Ant1	-2.985	1.06	-1.925	30	Pass
NVNT	a	5825	Ant1	-2.45	0.87	-1.58	30	Pass
NVNT	ac20	5745	Ant1	-2.654	0.13	-2.524	30	Pass
NVNT	ac20	5785	Ant1	-3.305	0.13	-3.175	30	Pass
NVNT	ac20	5825	Ant1	-2.631	0.16	-2.471	30	Pass
NVNT	ac40	5755	Ant1	-6.158	0.32	-5.838	30	Pass
NVNT	ac40	5795	Ant1	-5.842	0.32	-5.522	30	Pass
NVNT	n20	5745	Ant1	-2.2	0.13	-2.07	30	Pass
NVNT	n20	5785	Ant1	-2.705	0.13	-2.575	30	Pass
NVNT	n20	5825	Ant1	-2.113	0.13	-1.983	30	Pass
NVNT	n40	5755	Ant1	-5.896	0.26	-5.636	30	Pass
NVNT	n40	5795	Ant1	-5.931	0.32	-5.611	30	Pass

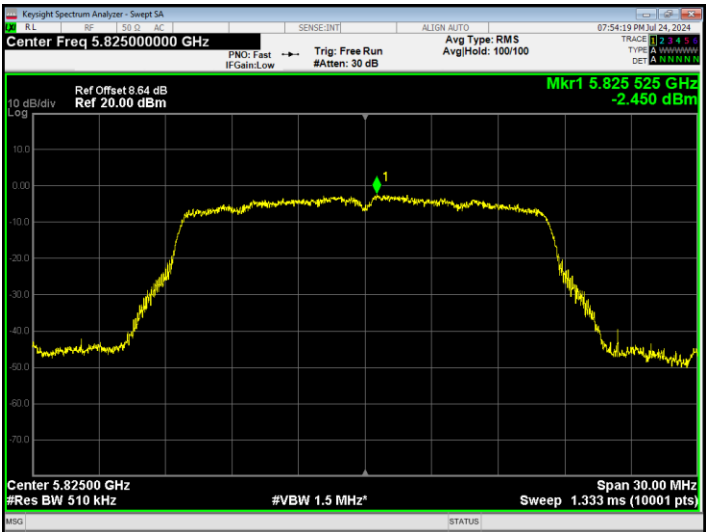
PSD NVNT a 5745MHz Ant1



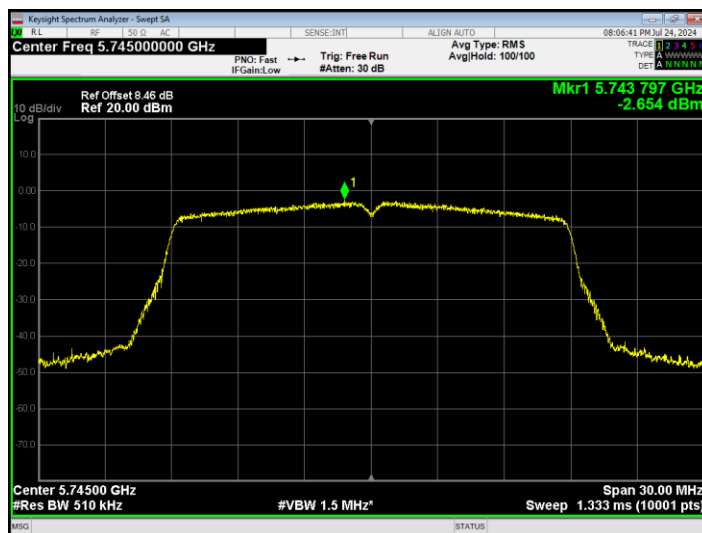
PSD NVNT a 5785MHz Ant1



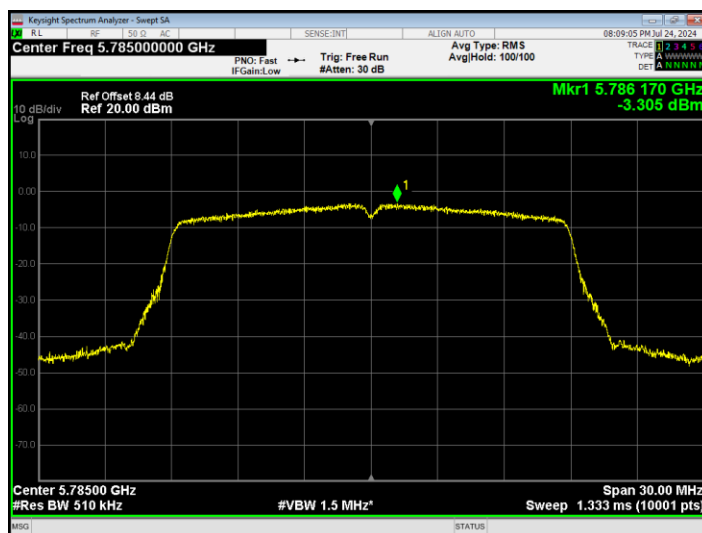
PSD NVNT a 5825MHz Ant1



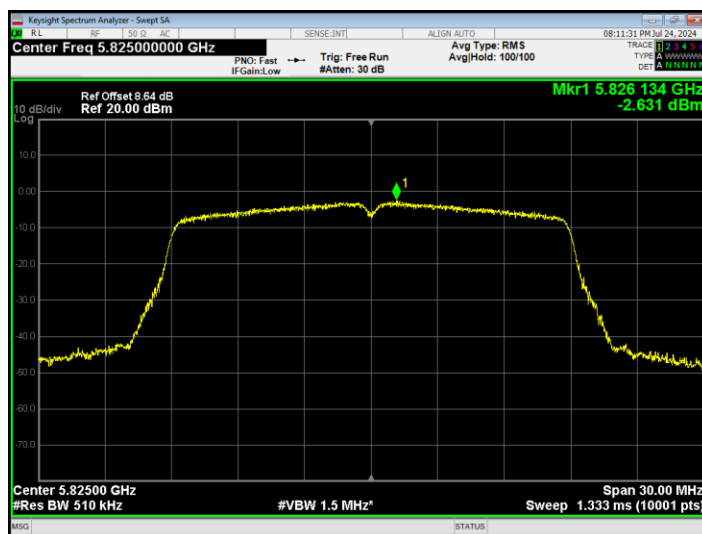
PSD NVNT ac20 5745MHz Ant1



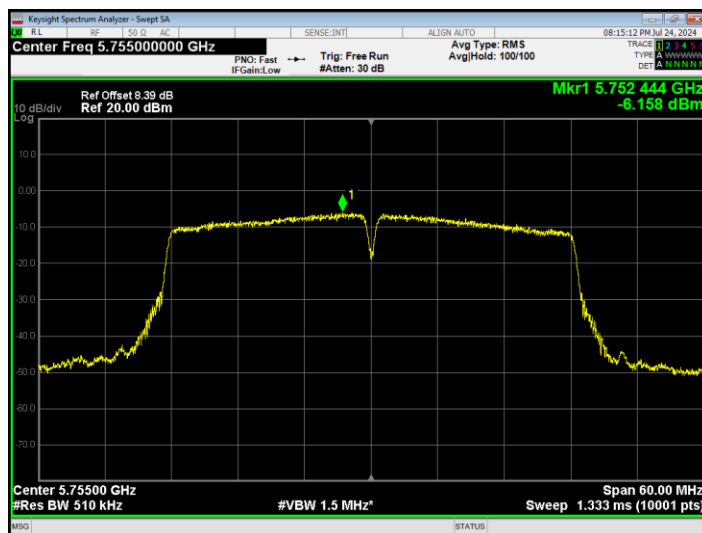
PSD NVNT ac20 5785MHz Ant1



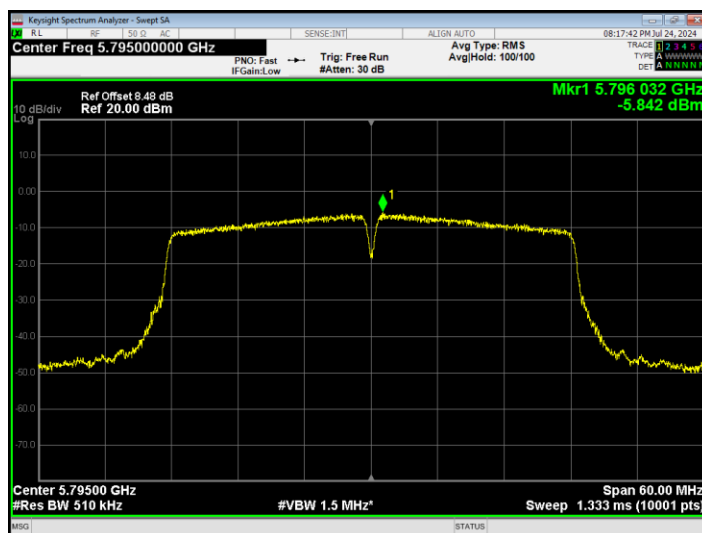
PSD NVNT ac20 5825MHz Ant1



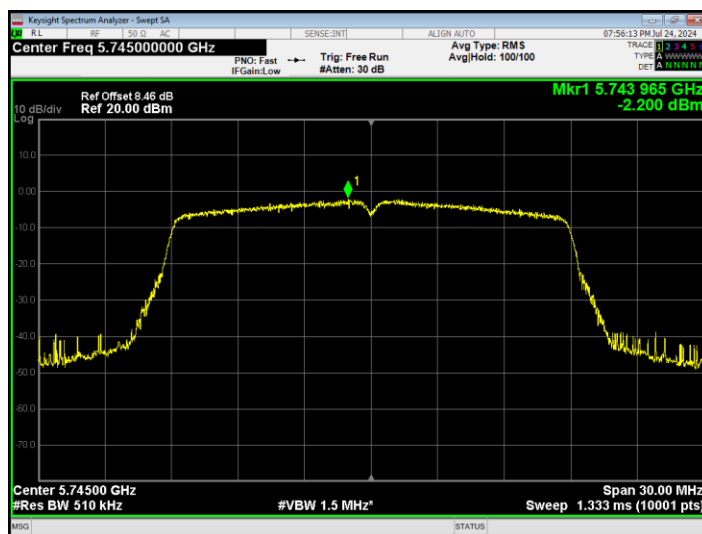
PSD NVNT ac40 5755MHz Ant1



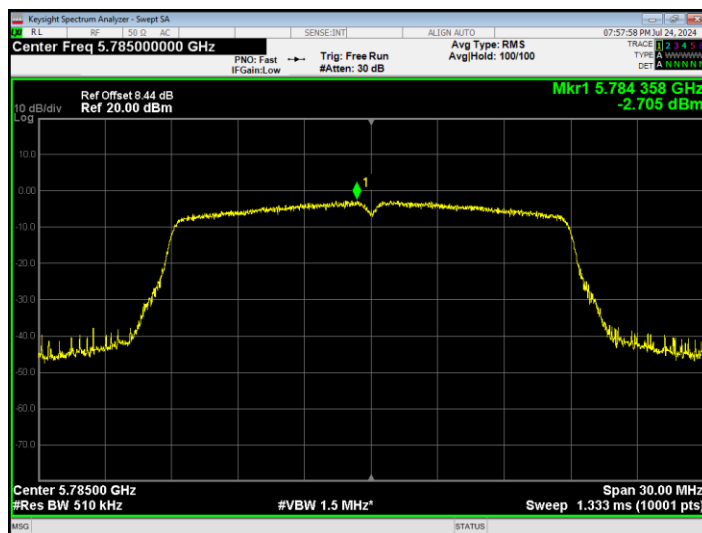
PSD NVNT ac40 5795MHz Ant1



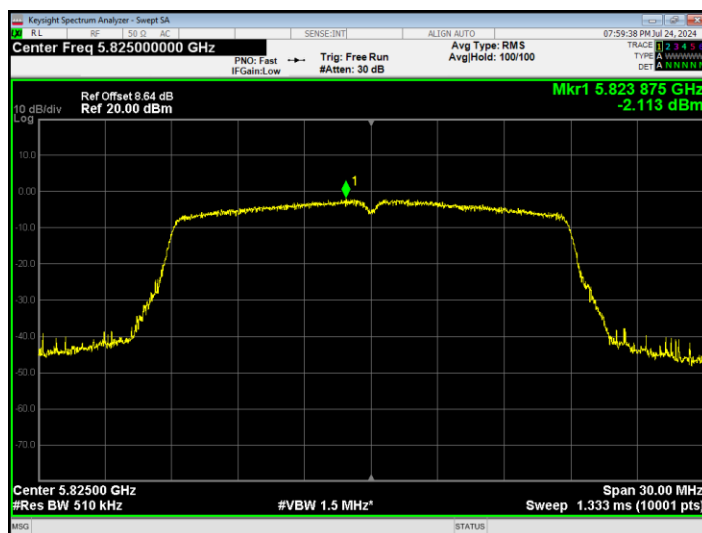
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



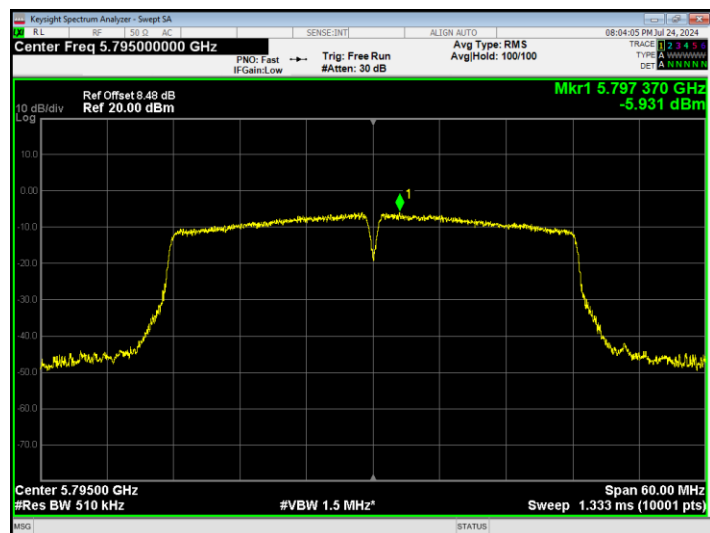
PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

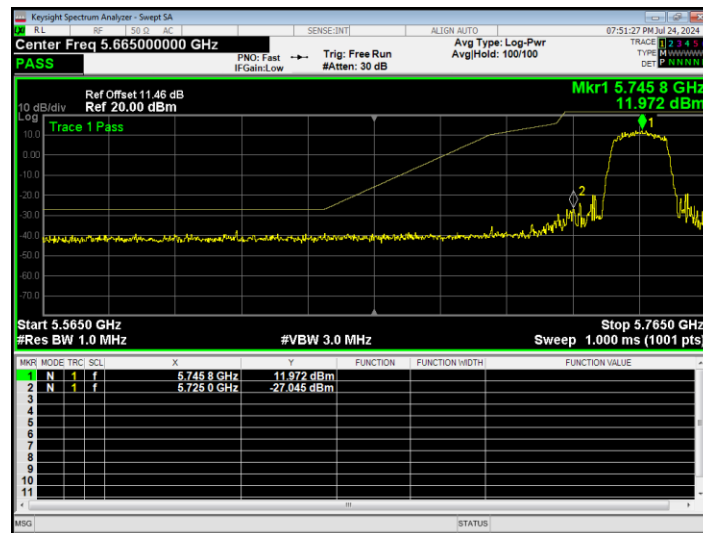


Band Edge

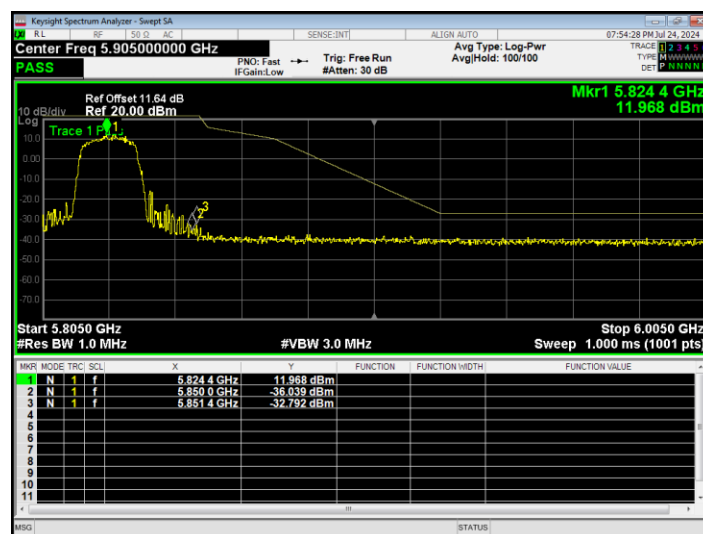
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-27.04	Pass
NVNT	a	5825	Ant1	-32.79	Pass
NVNT	ac20	5745	Ant1	-28.09	Pass
NVNT	ac20	5825	Ant1	-31.28	Pass
NVNT	ac40	5755	Ant1	-27.76	Pass
NVNT	ac40	5795	Ant1	-34.85	Pass
NVNT	n20	5745	Ant1	-22.99	Pass
NVNT	n20	5825	Ant1	7.71	Pass
NVNT	n40	5755	Ant1	-19.3	Pass
NVNT	n40	5795	Ant1	-34.74	Pass

Note: the Ref offset=antenna gain+cable loss

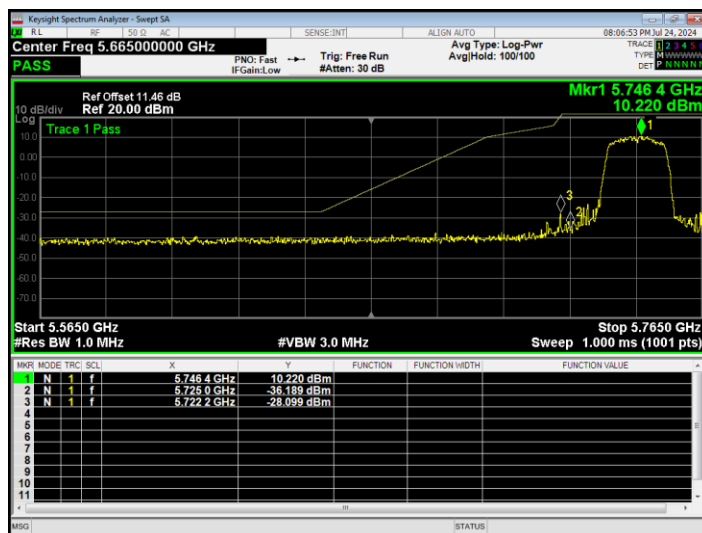
Band Edge NVNT a 5745MHz Low Ant1



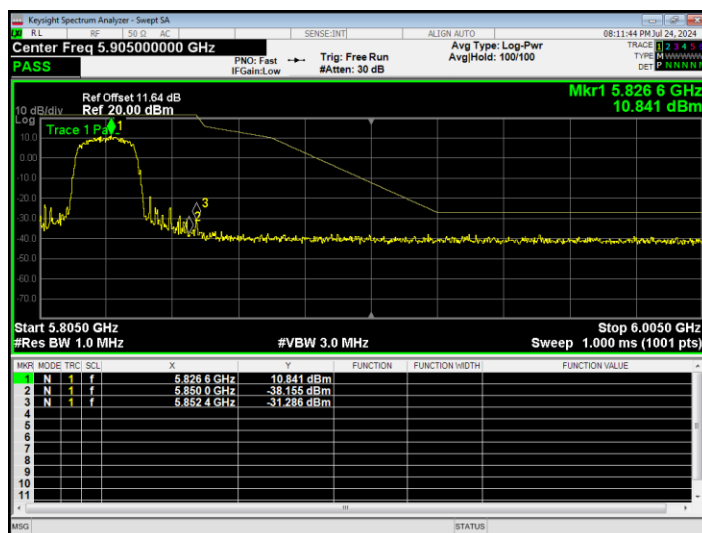
Band Edge NVNT a 5825MHz High Ant1



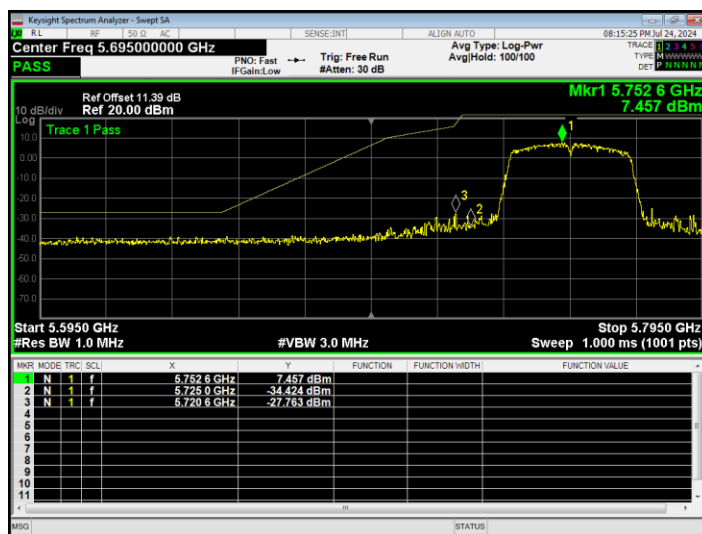
Band Edge NVNT ac20 5745MHz Low Ant1



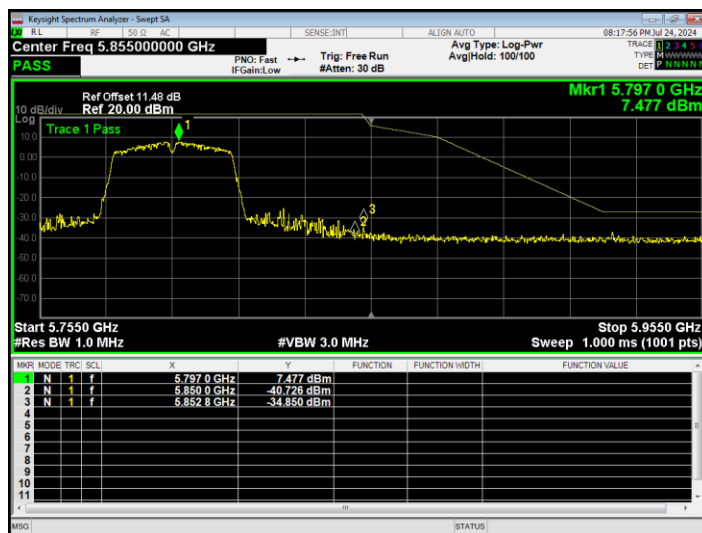
Band Edge NVNT ac20 5825MHz High Ant1



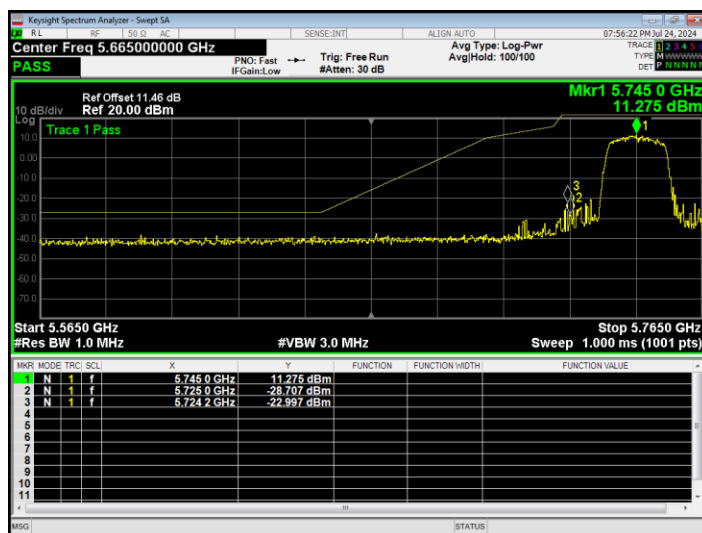
Band Edge NVNT ac40 5755MHz Low Ant1



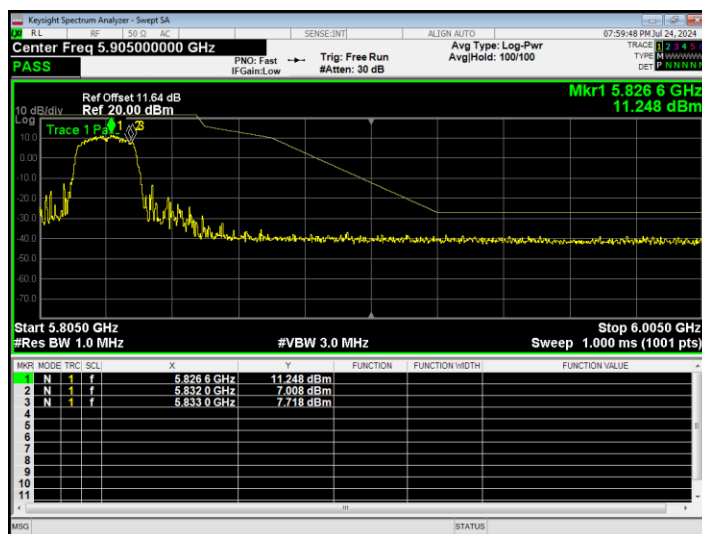
Band Edge NVNT ac40 5795MHz High Ant1



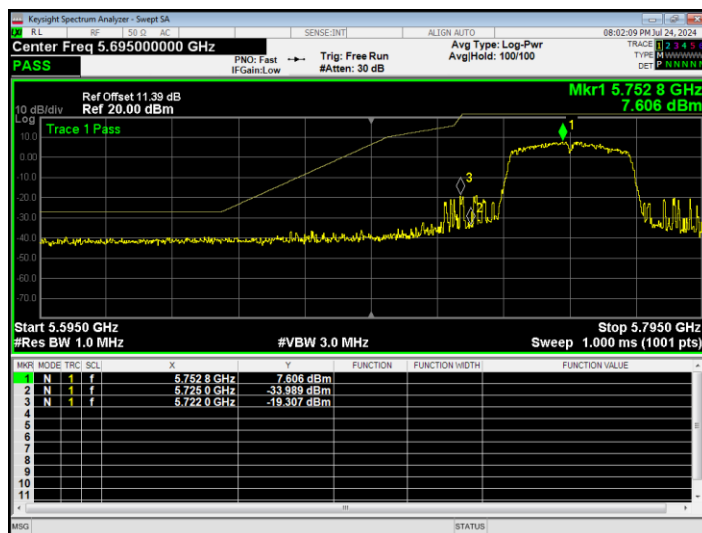
Band Edge NVNT n20 5745MHz Low Ant1



Band Edge NVNT n20 5825MHz High Ant1



Band Edge NVNT n40 5755MHz Low Ant1



Band Edge NVNT n40 5795MHz High Ant1

