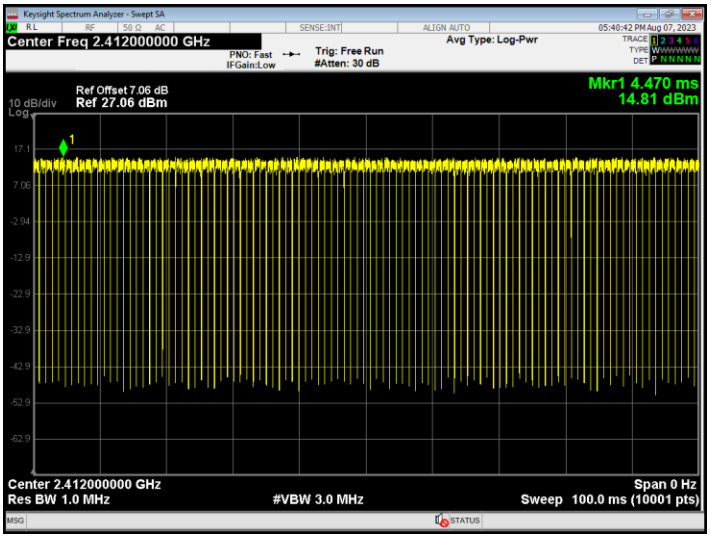
ANNEX
FCC Part 15C Test Report
FCC ID: 2AXOG-JT-EL

Applicant:	Changzhou Jutai Electronic Co., Ltd
Address:	No.8 Longfa Road, Xinbei District, Changzhou, Jiangsu 213031, China
Manufacturer1:	Changzhou Jutai Electronic Co., Ltd
Address:	No.8 Longfa Road, Xinbei District, Changzhou, Jiangsu 213031, China
Manufacturer2:	RAINBOW LIGHTING CO., LTD.
Address:	HI-PARK (S.E.Z) (National Road 1 146.5 KM), SANGKAT CHROK MTEASE, BAVET CITY SG, Cambodia
EUT:	LED CONTROLLER
Trade Mark:	CZJUTAI®
Model Number:	JT-EL/FC050V2000-H15, JT-EL/FC050V1500-H15, JT-EL/FC050V1000-H15, JT-EL/FC050V0500-H15
Date of Receipt:	Aug. 04, 2023
Test Date:	Aug. 04, 2023 - Aug. 14, 2023
Date of Report:	Aug. 14, 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
Applicable Standards:	FCC PART 15 C 15.247 ANSI C63.10:2013
Test Result:	Pass

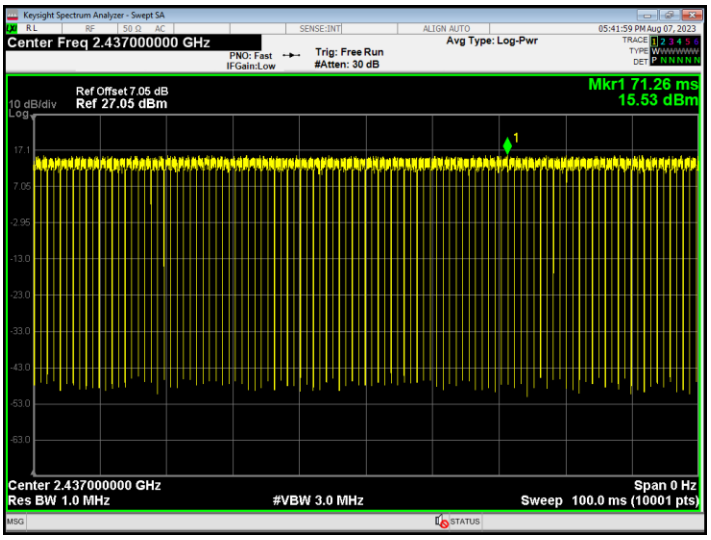
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	97.3	0.12
NVNT	b	2437	Ant1	97.28	0.12
NVNT	b	2462	Ant1	97.33	0.12
NVNT	g	2412	Ant1	84.98	0.71
NVNT	g	2437	Ant1	85.3	0.69
NVNT	g	2462	Ant1	85.23	0.69
NVNT	n20	2412	Ant1	97.53	0.11
NVNT	n20	2437	Ant1	97.63	0.1
NVNT	n20	2462	Ant1	97.51	0.11
NVNT	n40	2422	Ant1	95.32	0.21
NVNT	n40	2437	Ant1	95.31	0.21
NVNT	n40	2452	Ant1	95.27	0.21

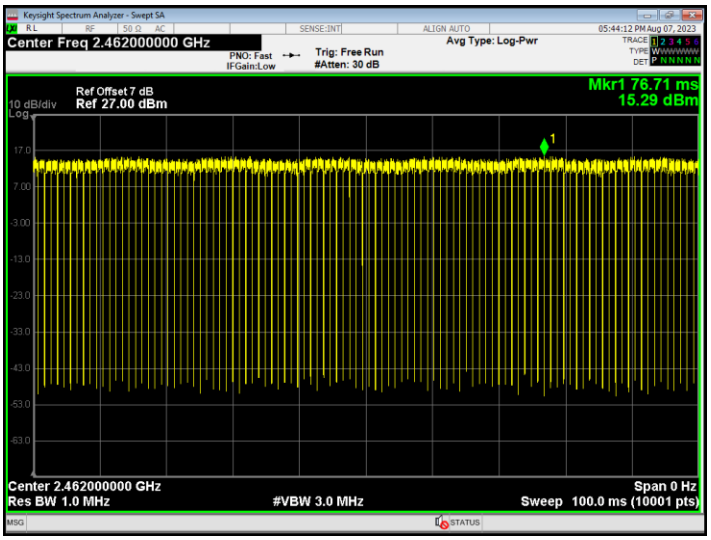
Duty Cycle NVNT b 2412MHz Ant1



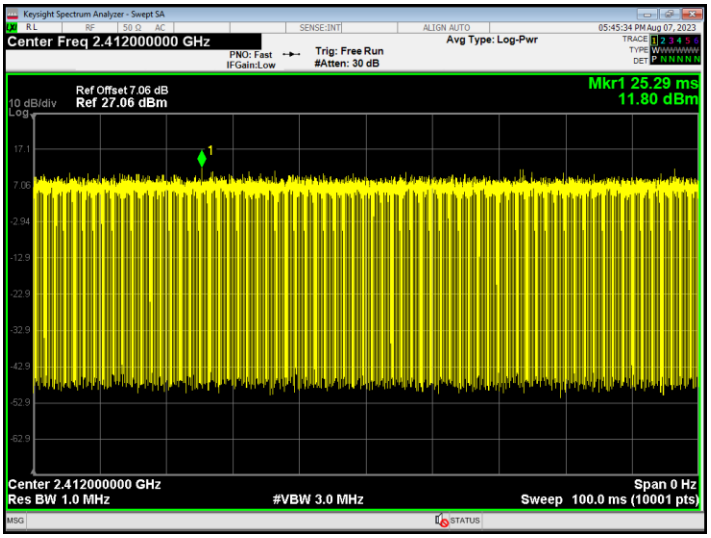
Duty Cycle NVNT b 2437MHz Ant1



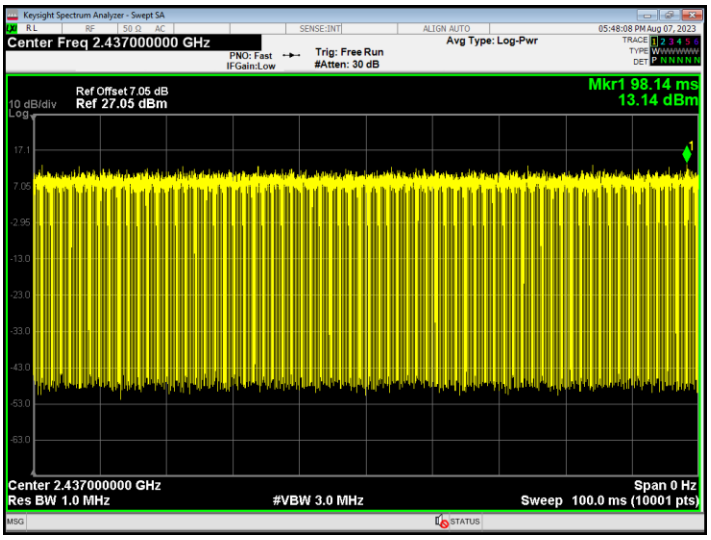
Duty Cycle NVNT b 2462MHz Ant1



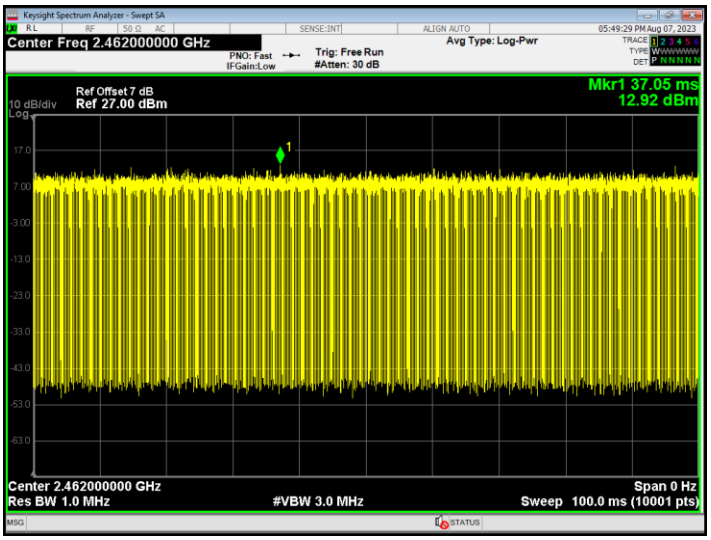
Duty Cycle NVNT g 2412MHz Ant1



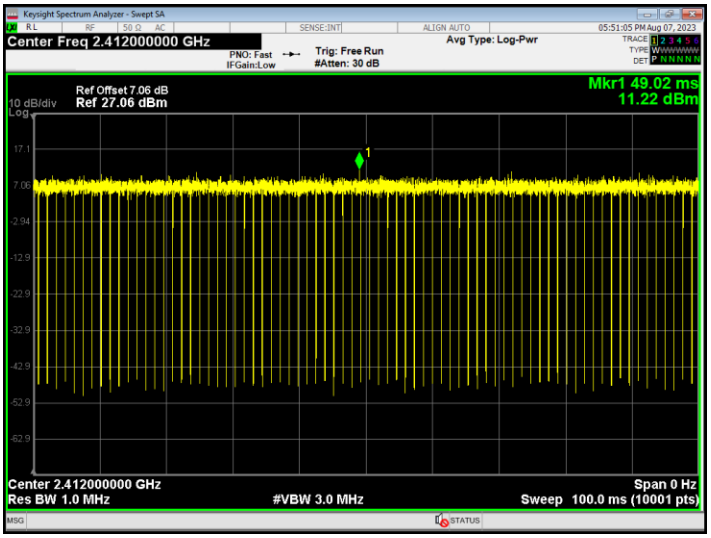
Duty Cycle NVNT g 2437MHz Ant1



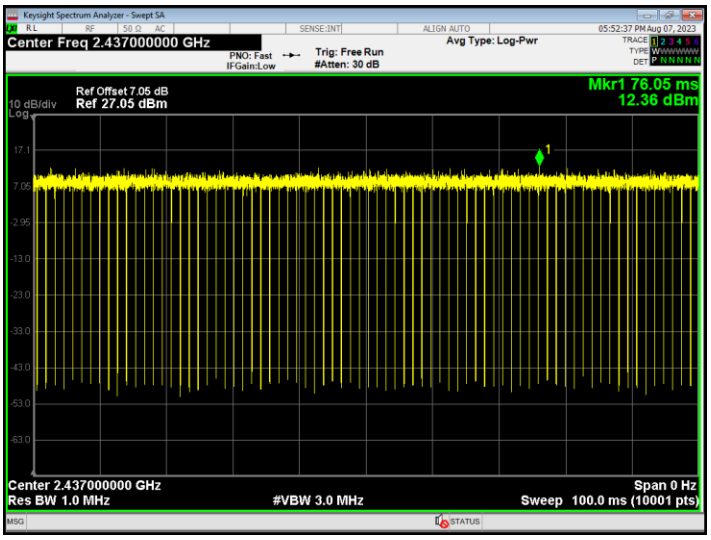
Duty Cycle NVNT g 2462MHz Ant1



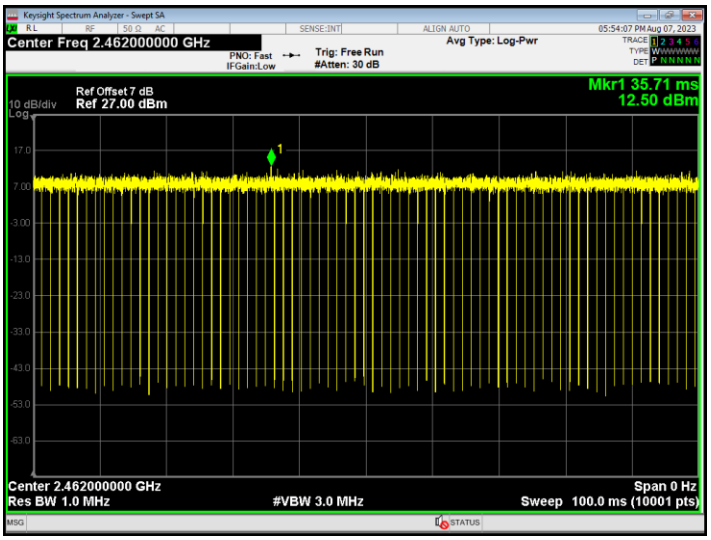
Duty Cycle NVNT n20 2412MHz Ant1



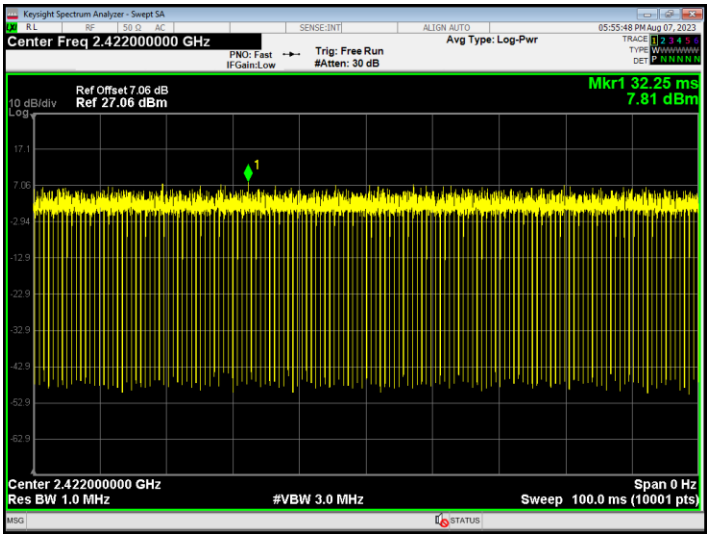
Duty Cycle NVNT n20 2437MHz Ant1



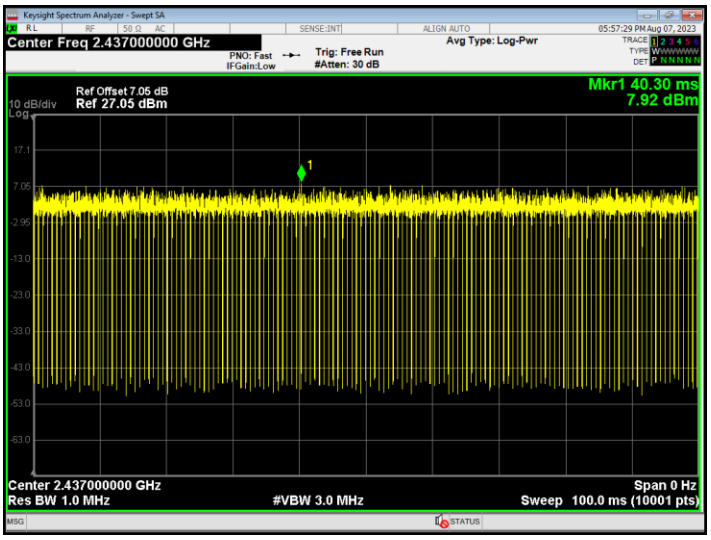
Duty Cycle NVNT n20 2462MHz Ant1



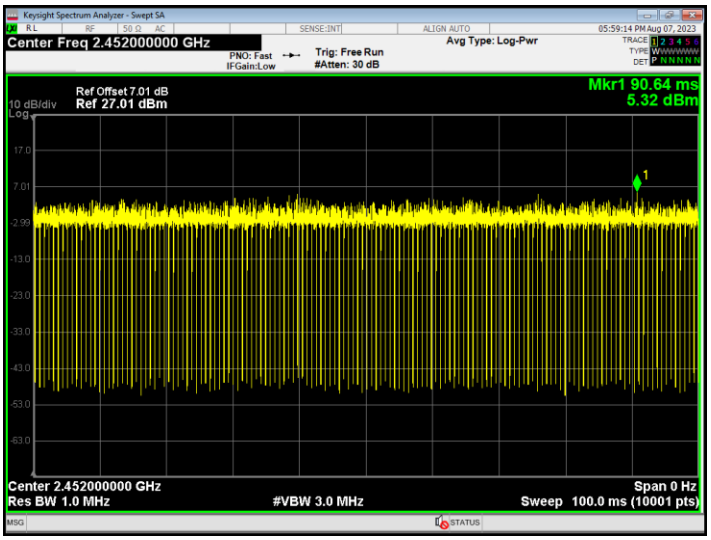
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



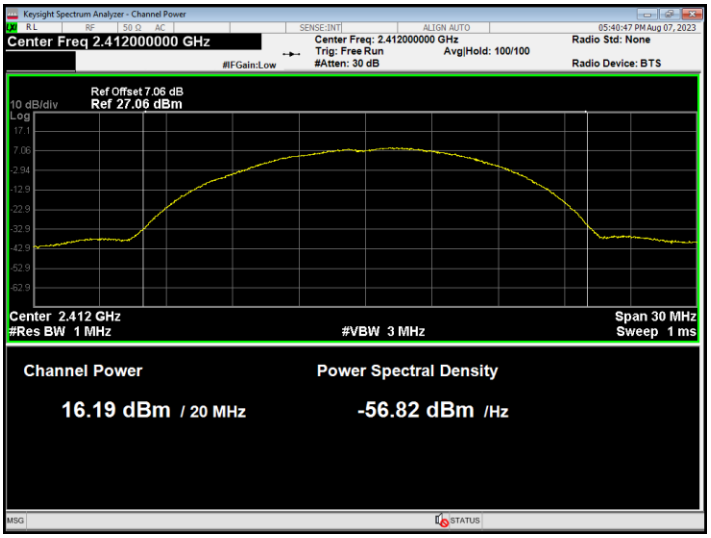
Duty Cycle NVNT n40 2452MHz Ant1



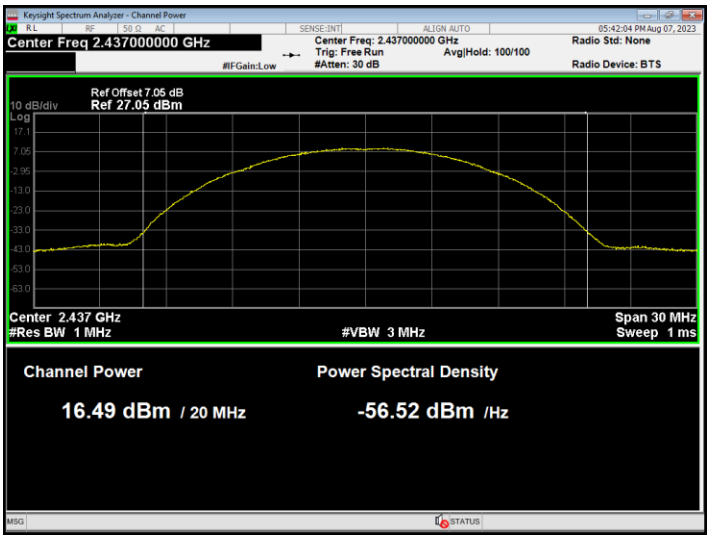
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.193	0.12	16.313	30	Pass
NVNT	b	2437	Ant1	16.486	0.12	16.606	30	Pass
NVNT	b	2462	Ant1	15.885	0.12	16.005	30	Pass
NVNT	g	2412	Ant1	14.695	0.71	15.405	30	Pass
NVNT	g	2437	Ant1	15.243	0.69	15.933	30	Pass
NVNT	g	2462	Ant1	14.319	0.69	15.009	30	Pass
NVNT	n20	2412	Ant1	14.16	0.11	14.27	30	Pass
NVNT	n20	2437	Ant1	14.348	0.1	14.448	30	Pass
NVNT	n20	2462	Ant1	14.623	0.11	14.733	30	Pass
NVNT	n40	2422	Ant1	14.868	0.21	15.078	30	Pass
NVNT	n40	2437	Ant1	15.952	0.21	16.162	30	Pass
NVNT	n40	2452	Ant1	15.309	0.21	15.519	30	Pass

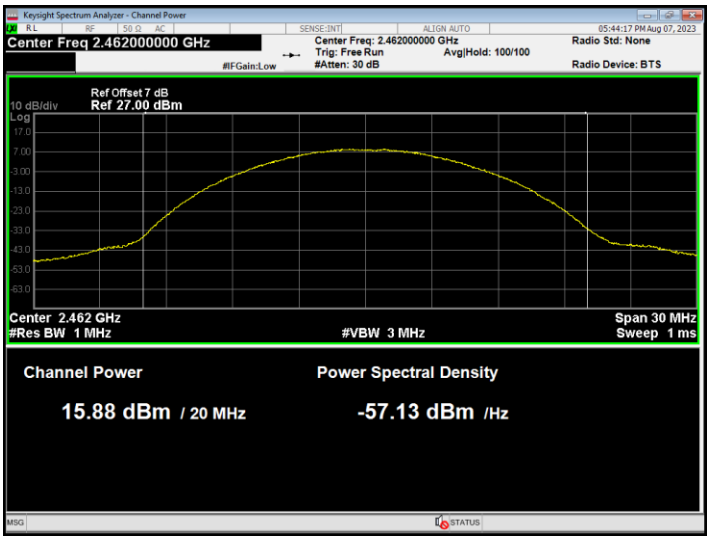
Power NVNT b 2412MHz Ant1



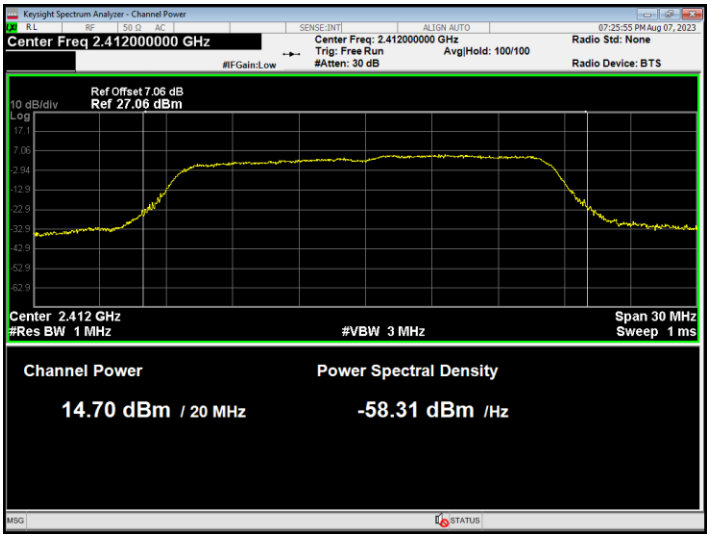
Power NVNT b 2437MHz Ant1



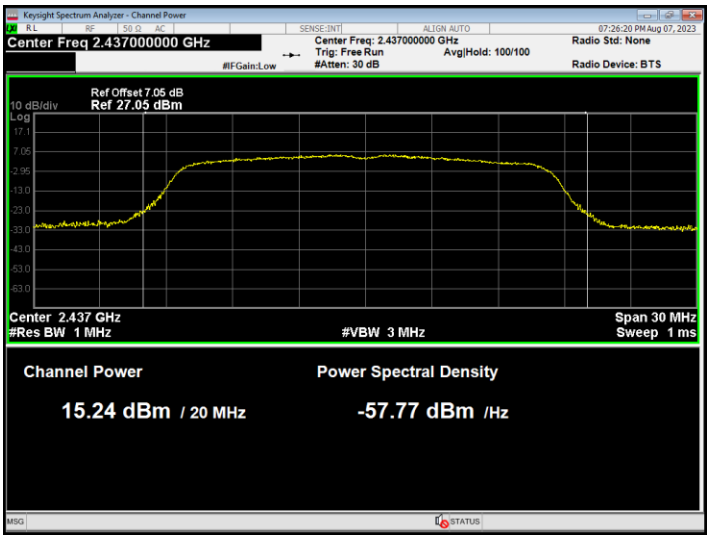
Power NVNT b 2462MHz Ant1



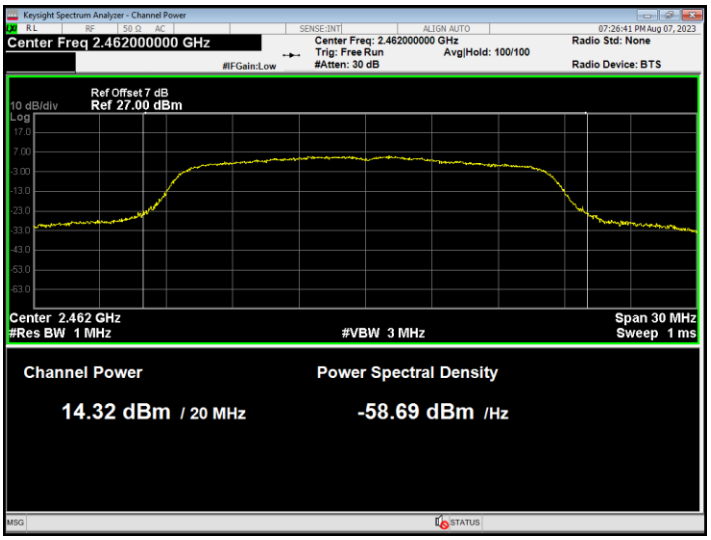
Power NVNT g 2412MHz Ant1



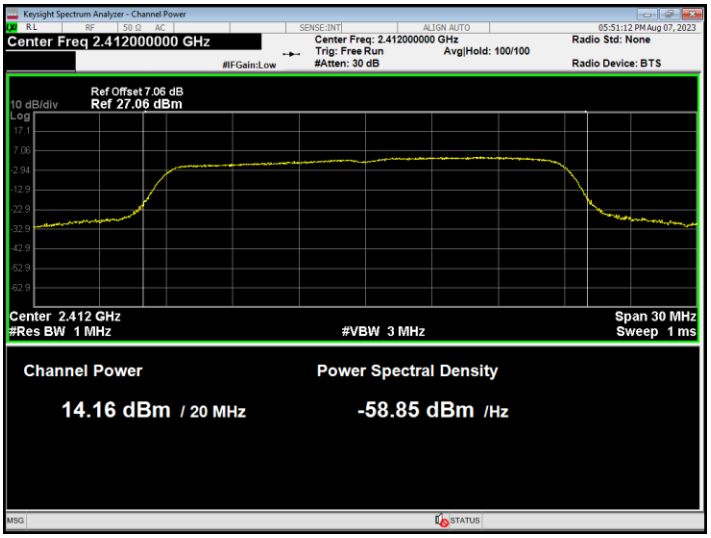
Power NVNT g 2437MHz Ant1



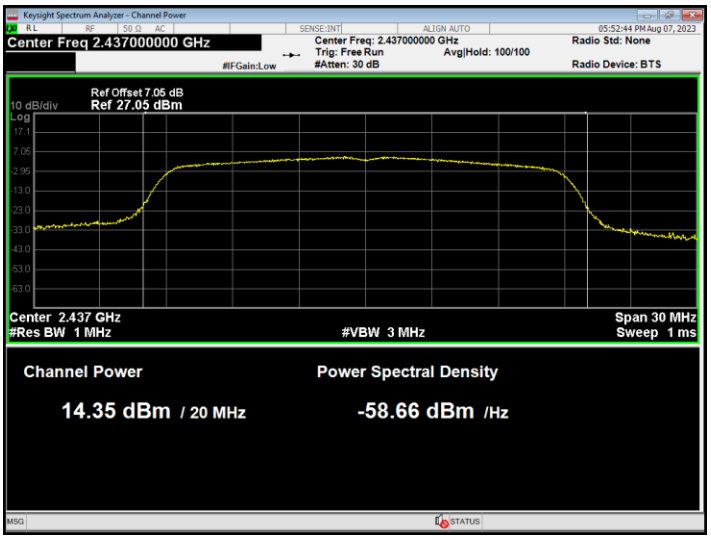
Power NVNT g 2462MHz Ant1



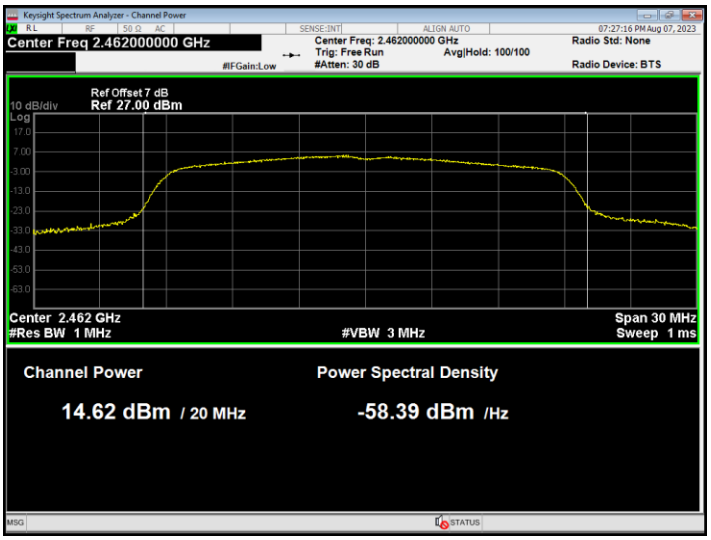
Power NVNT n20 2412MHz Ant1



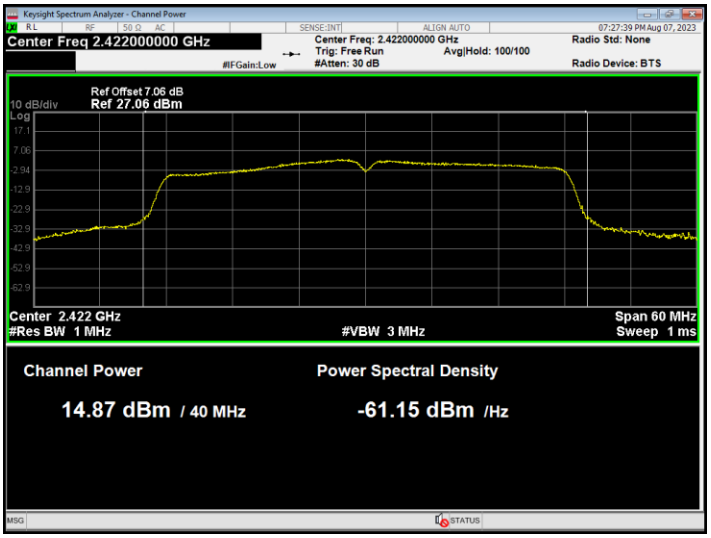
Power NVNT n20 2437MHz Ant1



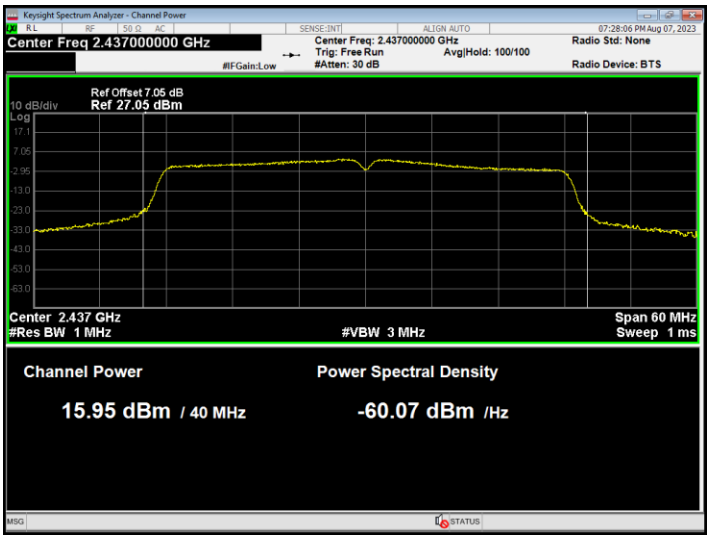
Power NVNT n20 2462MHz Ant1



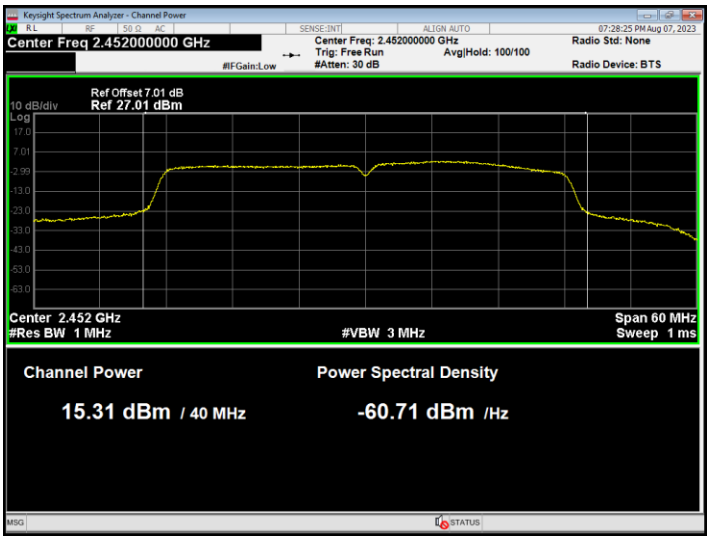
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



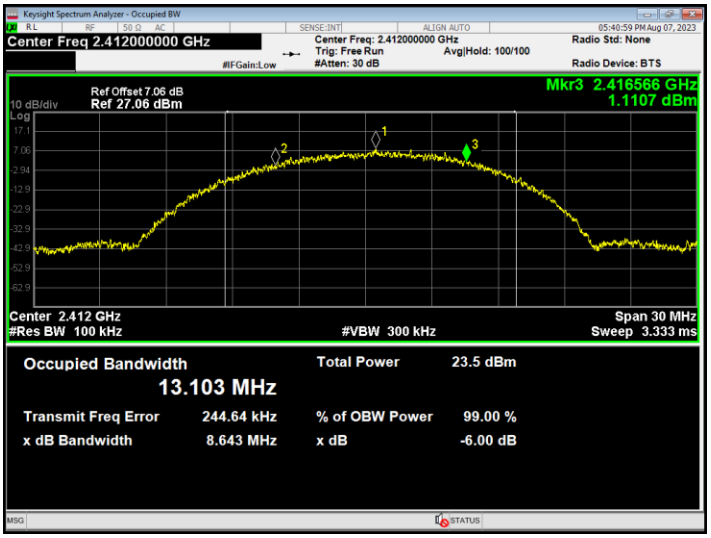
Power NVNT n40 2452MHz Ant1



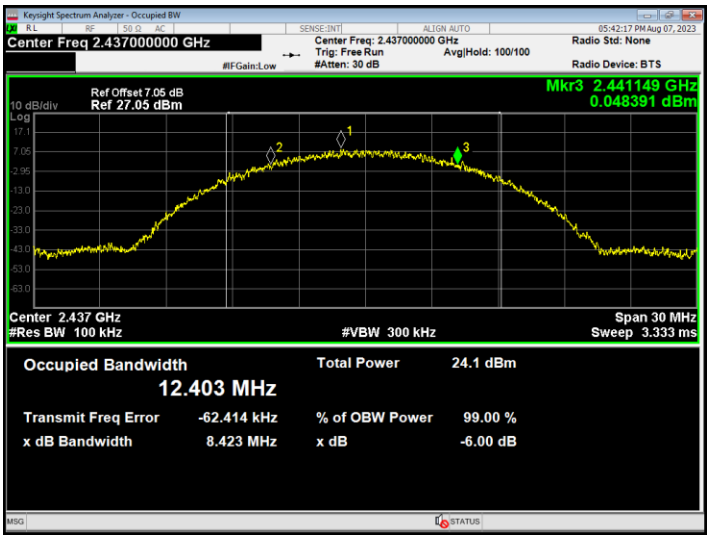
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.643	0.5	Pass
NVNT	b	2437	Ant1	8.423	0.5	Pass
NVNT	b	2462	Ant1	6.67	0.5	Pass
NVNT	g	2412	Ant1	16.068	0.5	Pass
NVNT	g	2437	Ant1	15.08	0.5	Pass
NVNT	g	2462	Ant1	15.022	0.5	Pass
NVNT	n20	2412	Ant1	16.35	0.5	Pass
NVNT	n20	2437	Ant1	12.653	0.5	Pass
NVNT	n20	2462	Ant1	13.842	0.5	Pass
NVNT	n40	2422	Ant1	26.362	0.5	Pass
NVNT	n40	2437	Ant1	31.307	0.5	Pass
NVNT	n40	2452	Ant1	35.13	0.5	Pass

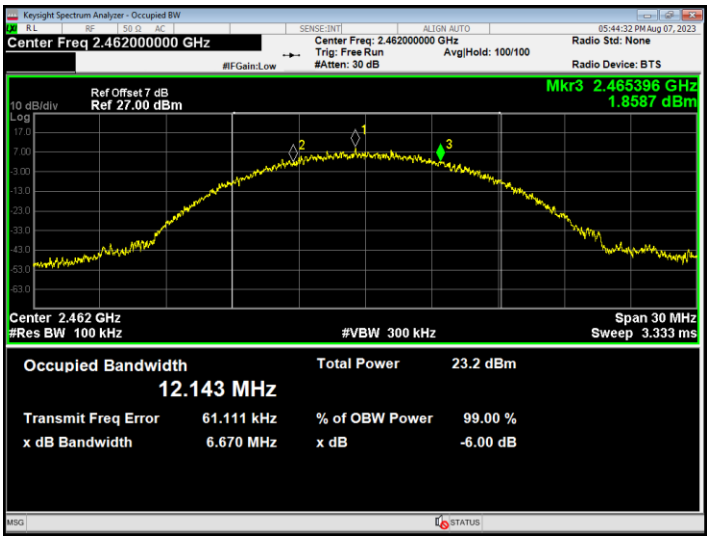
-6dB Bandwidth NVNT b 2412MHz Ant1



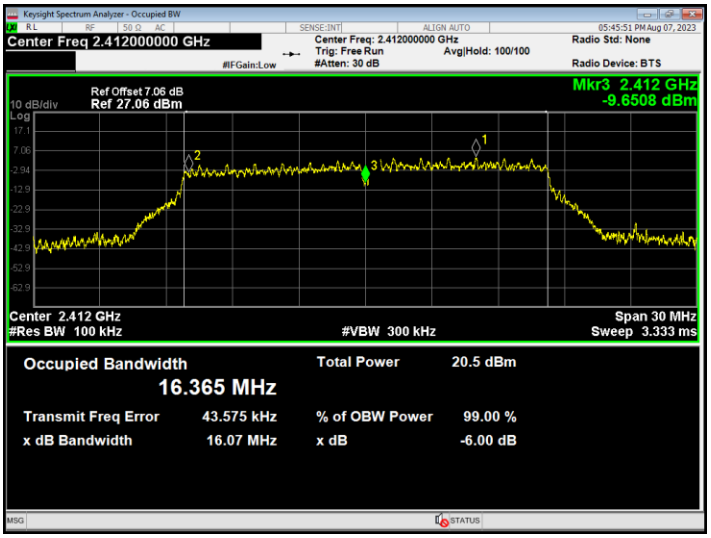
-6dB Bandwidth NVNT b 2437MHz Ant1



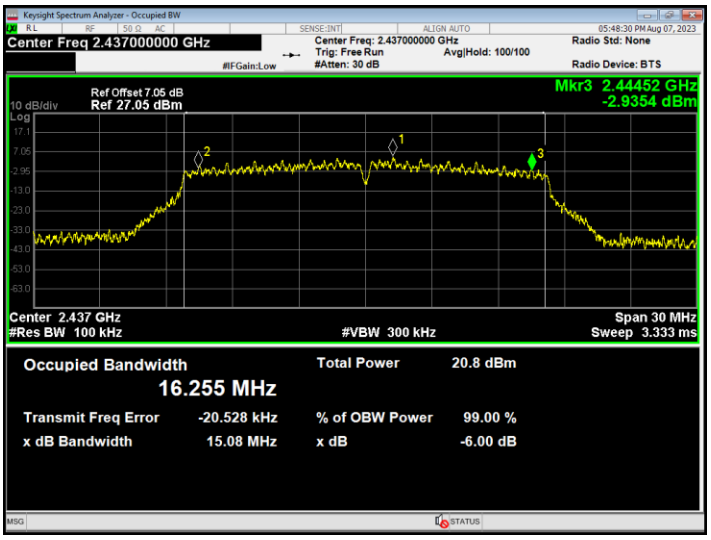
-6dB Bandwidth NVNT b 2462MHz Ant1



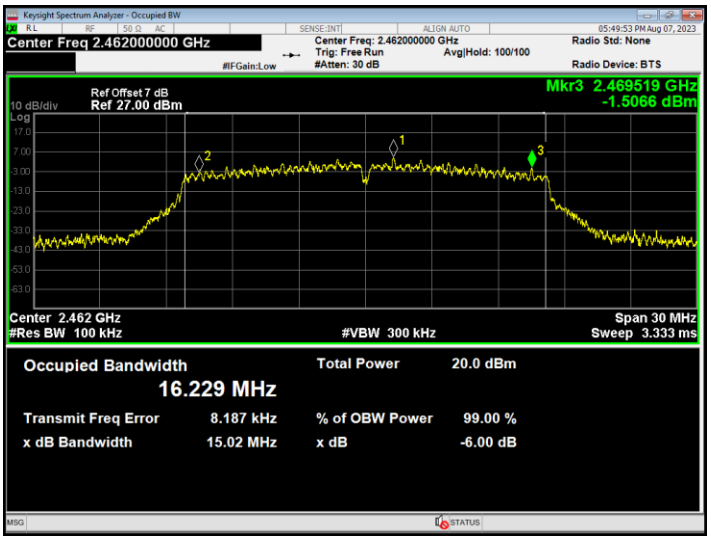
-6dB Bandwidth NVNT g 2412MHz Ant1



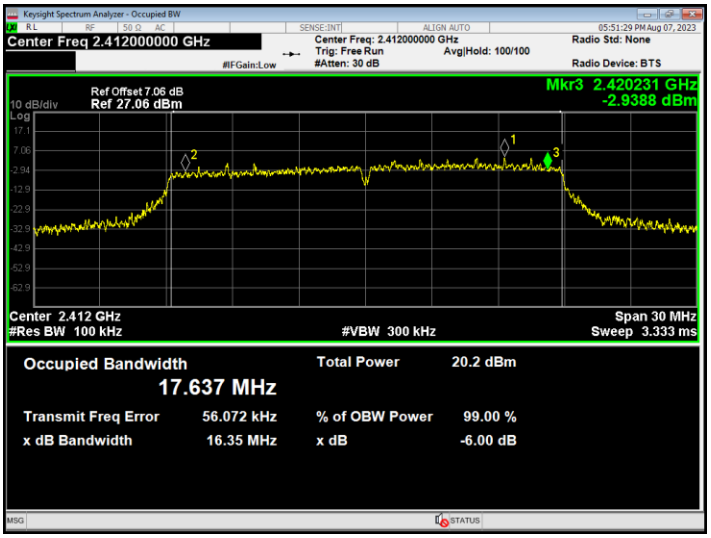
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

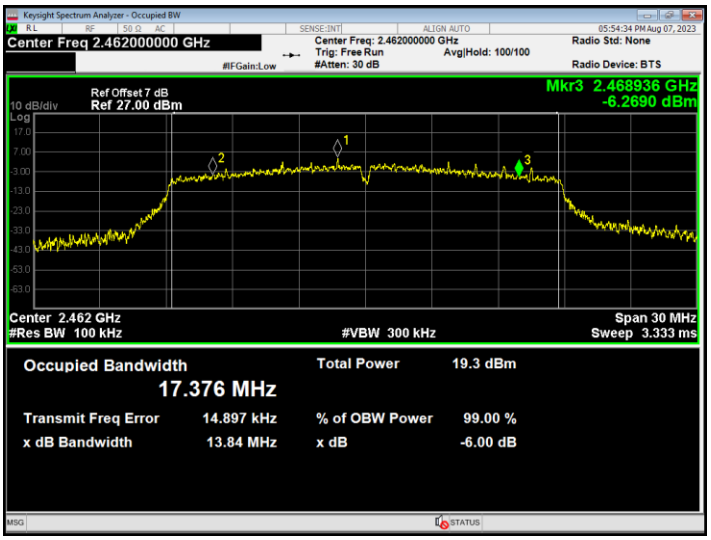


-6dB Bandwidth NVNT n20 2412MHz Ant1

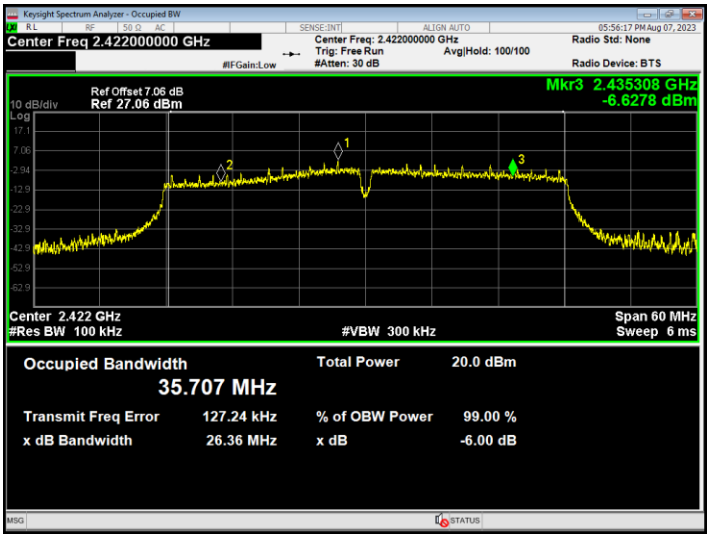


-6dB Bandwidth NVNT n20 2437MHz Ant1

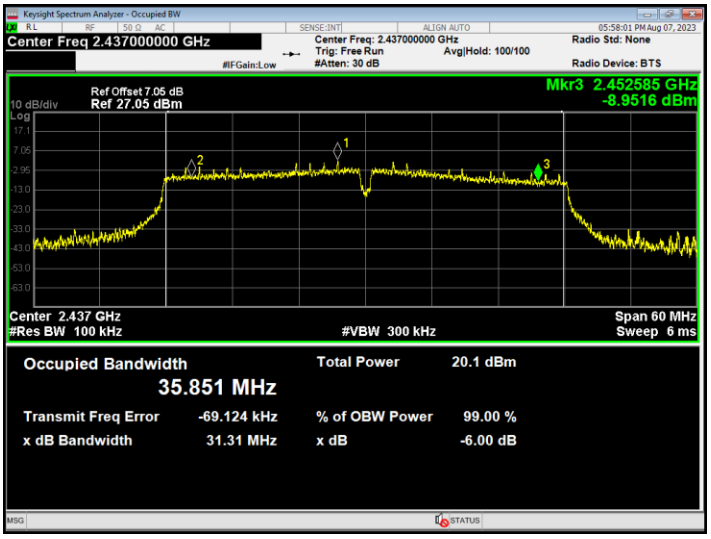
-6dB Bandwidth NVNT n20 2462MHz Ant1



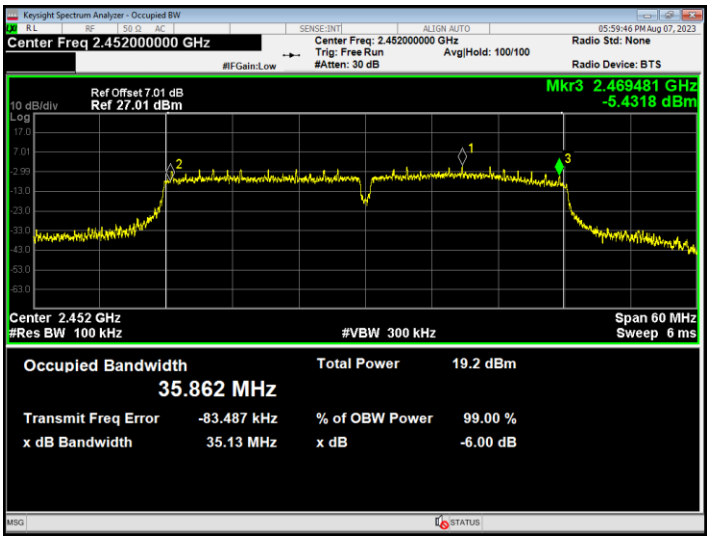
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



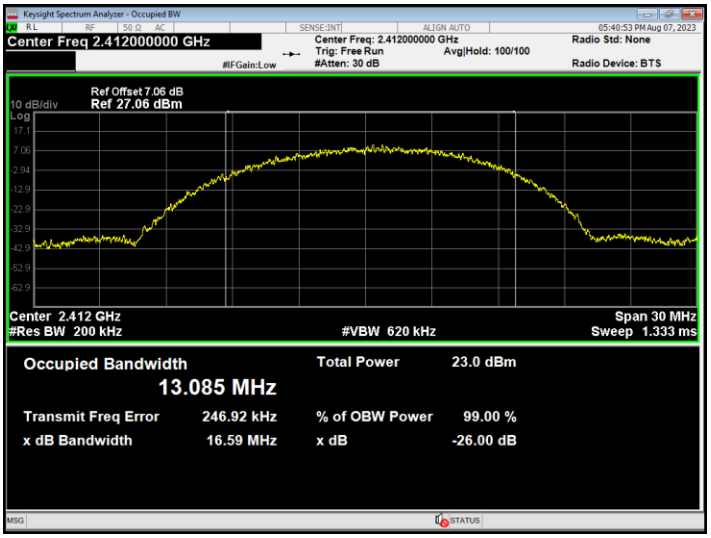
-6dB Bandwidth NVNT n40 2452MHz Ant1



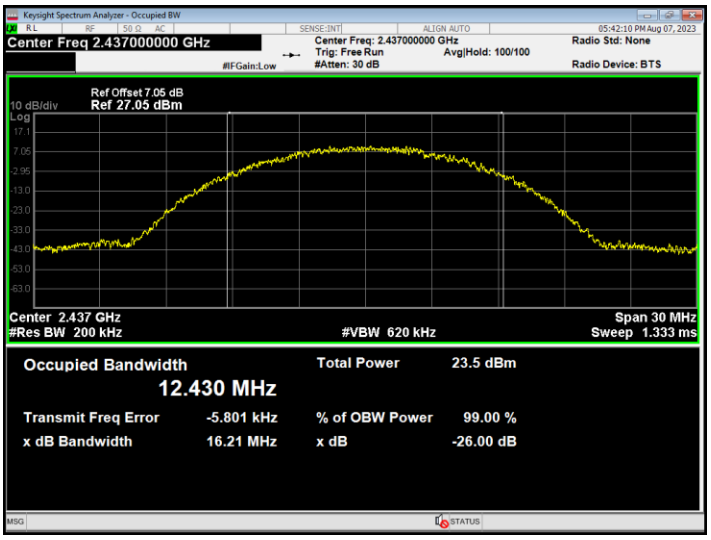
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.08458639
NVNT	b	2437	Ant1	12.43039645
NVNT	b	2462	Ant1	12.11510626
NVNT	g	2412	Ant1	16.47246101
NVNT	g	2437	Ant1	16.2826922
NVNT	g	2462	Ant1	16.22686127
NVNT	n20	2412	Ant1	17.69393807
NVNT	n20	2437	Ant1	17.47160029
NVNT	n20	2462	Ant1	17.34978972
NVNT	n40	2422	Ant1	35.84012049
NVNT	n40	2437	Ant1	35.97763587
NVNT	n40	2452	Ant1	35.98528925

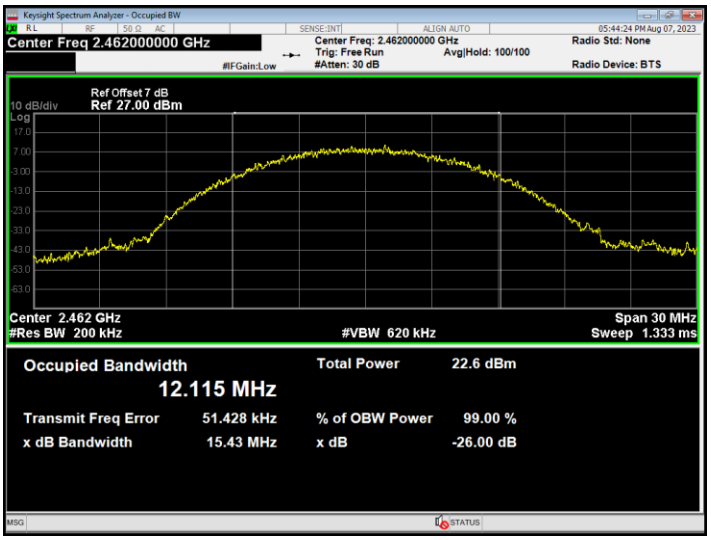
OBW NVNT b 2412MHz Ant1



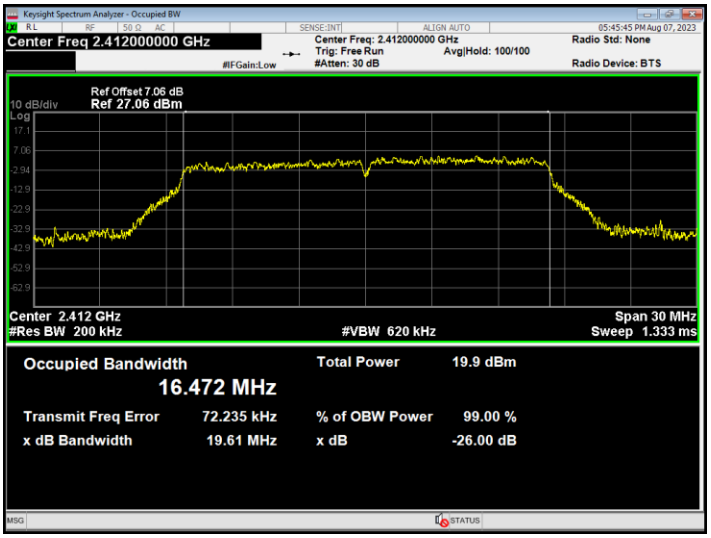
OBW NVNT b 2437MHz Ant1



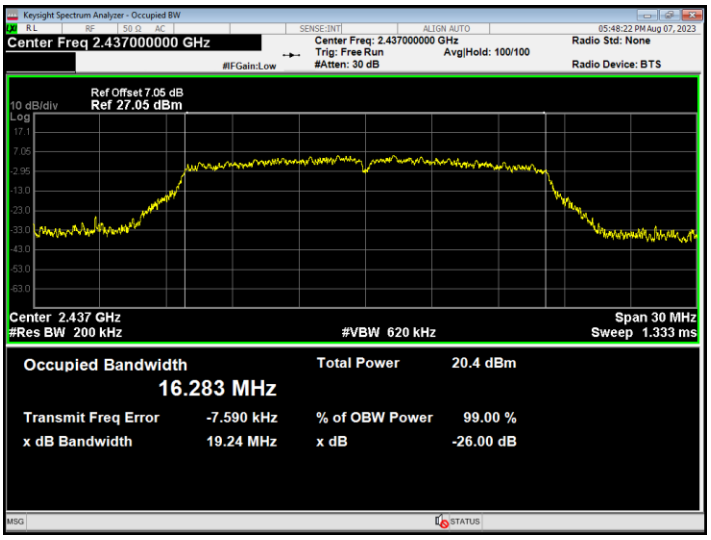
OBW NVNT b 2462MHz Ant1



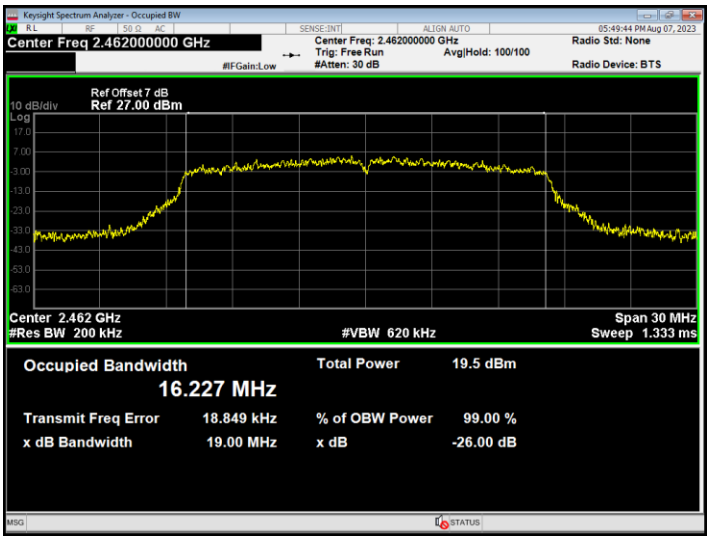
OBW NVNT g 2412MHz Ant1



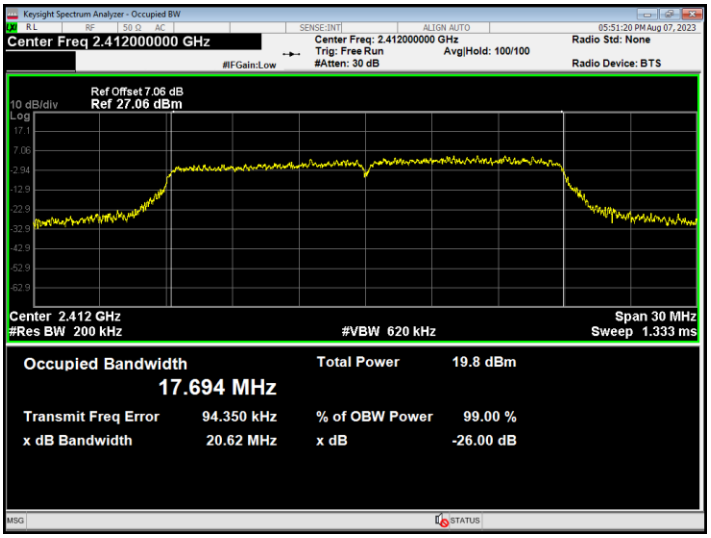
OBW NVNT g 2437MHz Ant1



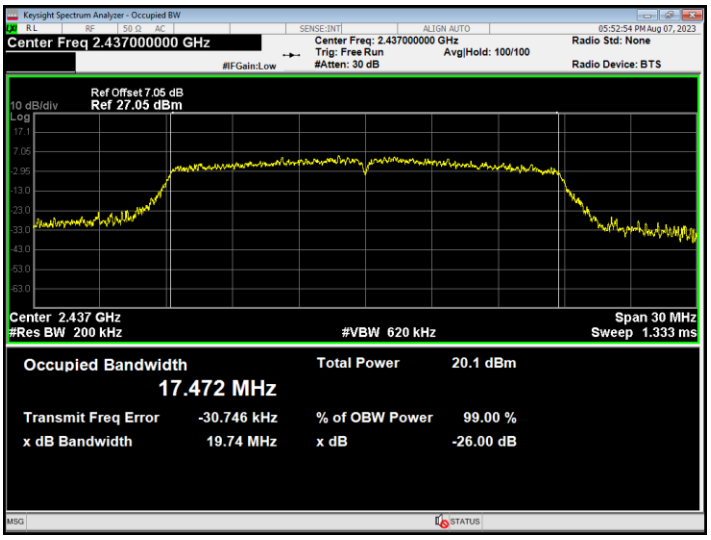
OBW NVNT g 2462MHz Ant1



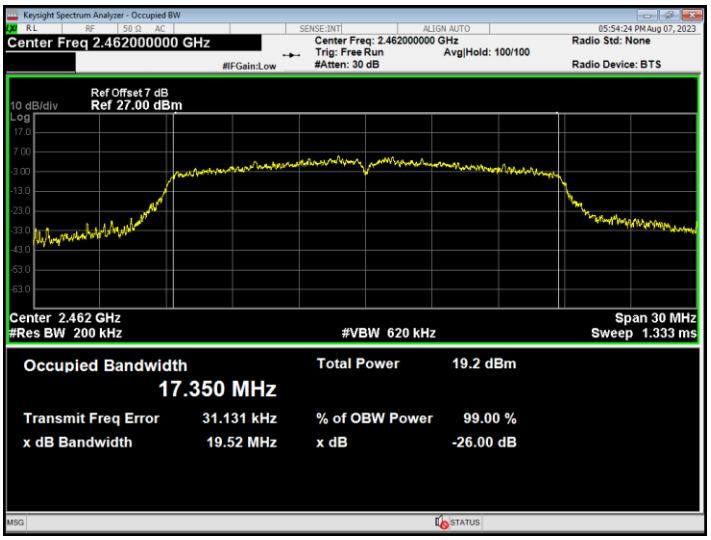
OBW NVNT n20 2412MHz Ant1



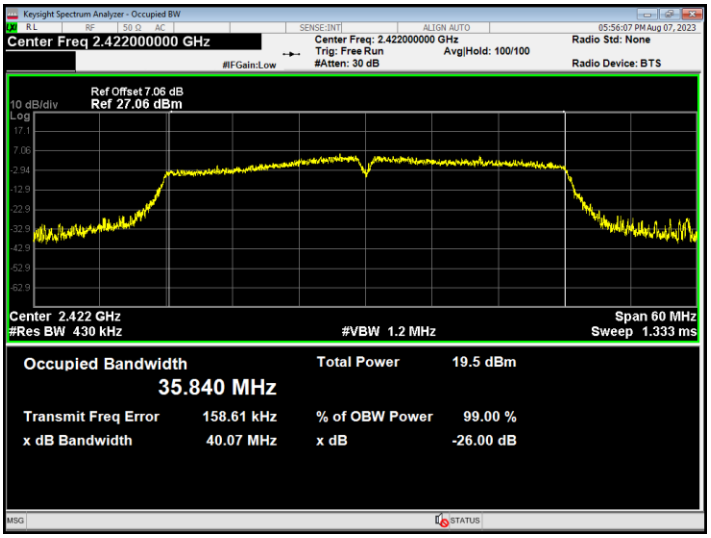
OBW NVNT n20 2437MHz Ant1



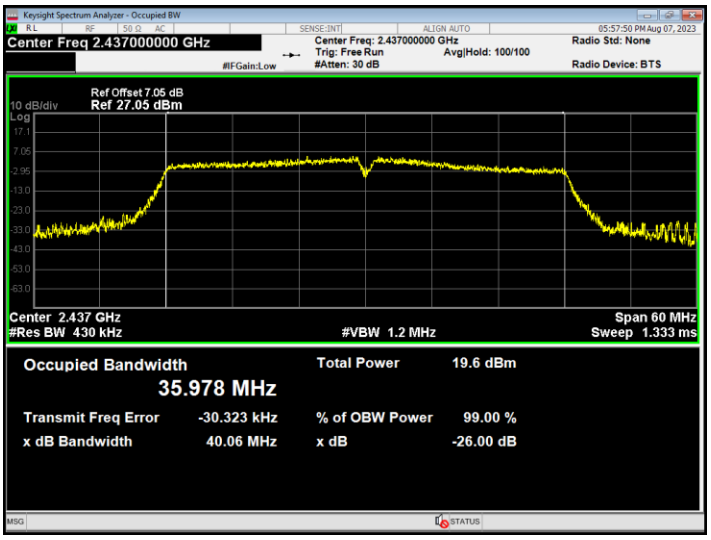
OBW NVNT n20 2462MHz Ant1



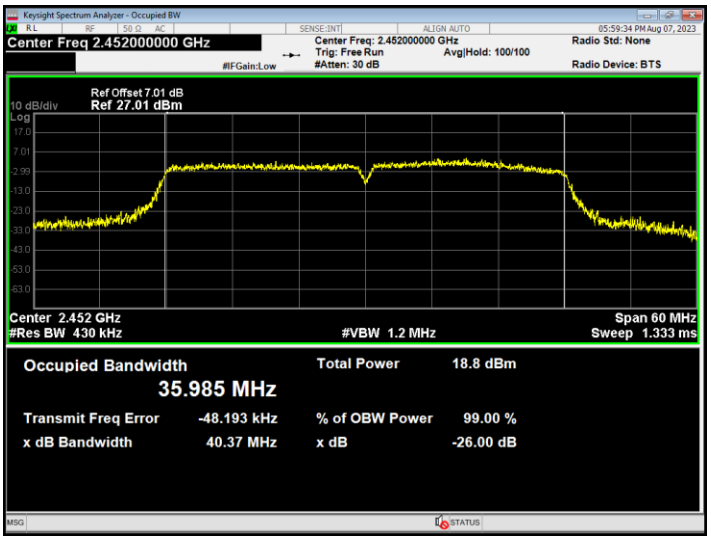
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



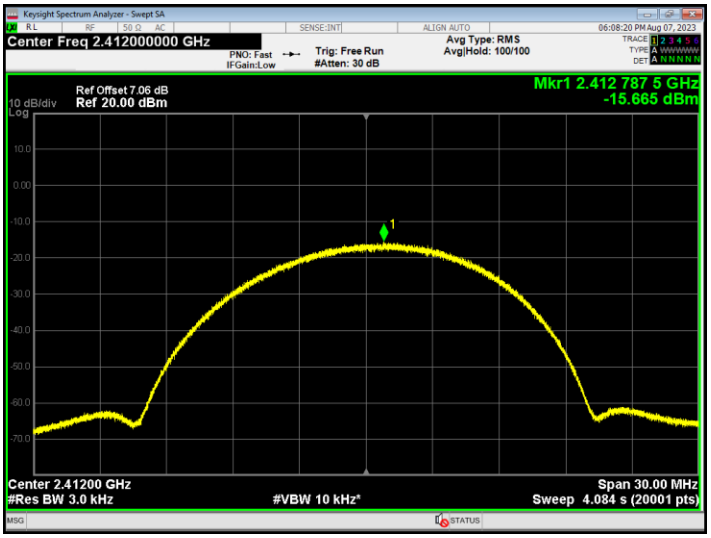
OBW NVNT n40 2452MHz Ant1



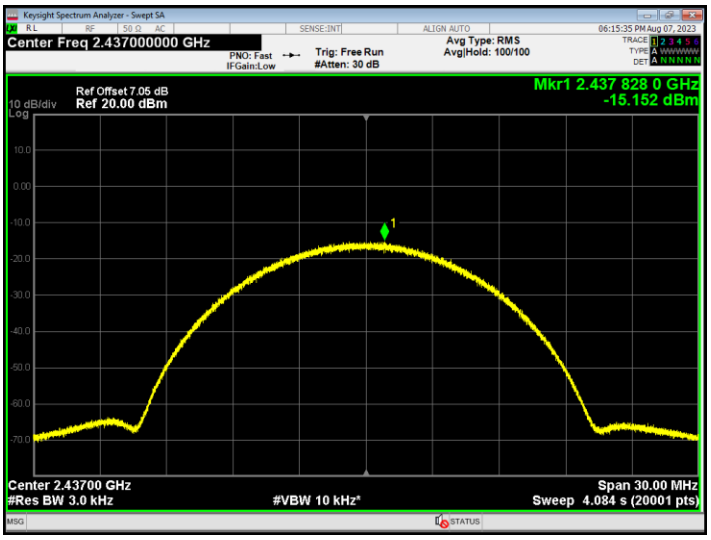
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Reading(dBm)	duty cycle factor(dB)	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.665	0.12	-15.55	8	Pass
NVNT	b	2437	Ant1	-15.152	0.12	-15.03	8	Pass
NVNT	b	2462	Ant1	-16.106	0.12	-15.99	8	Pass
NVNT	g	2412	Ant1	-19.673	0.71	-18.96	8	Pass
NVNT	g	2437	Ant1	-18.668	0.69	-17.98	8	Pass
NVNT	g	2462	Ant1	-19.396	0.69	-18.71	8	Pass
NVNT	n20	2412	Ant1	-19.7	0.11	-19.59	8	Pass
NVNT	n20	2437	Ant1	-19.189	0.1	-19.09	8	Pass
NVNT	n20	2462	Ant1	-19.953	0.11	-19.84	8	Pass
NVNT	n40	2422	Ant1	-19.244	0.21	-19.03	8	Pass
NVNT	n40	2437	Ant1	-20.586	0.21	-20.38	8	Pass
NVNT	n40	2452	Ant1	-21.563	0.21	-21.35	8	Pass

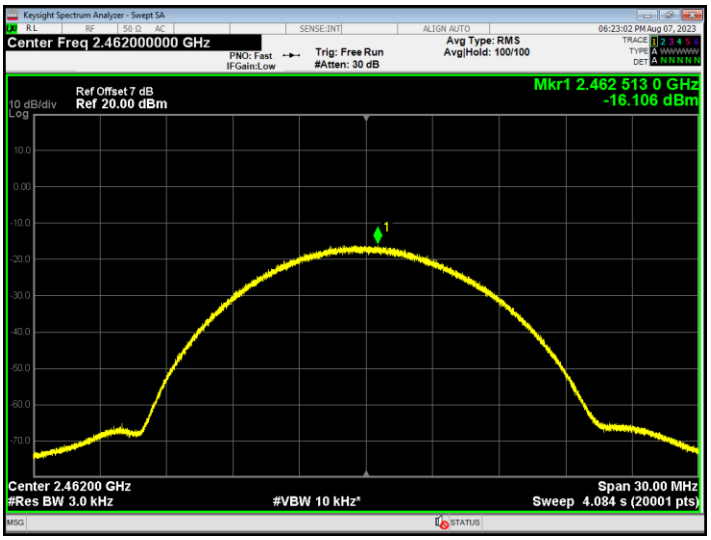
PSD NVNT b 2412MHz Ant1



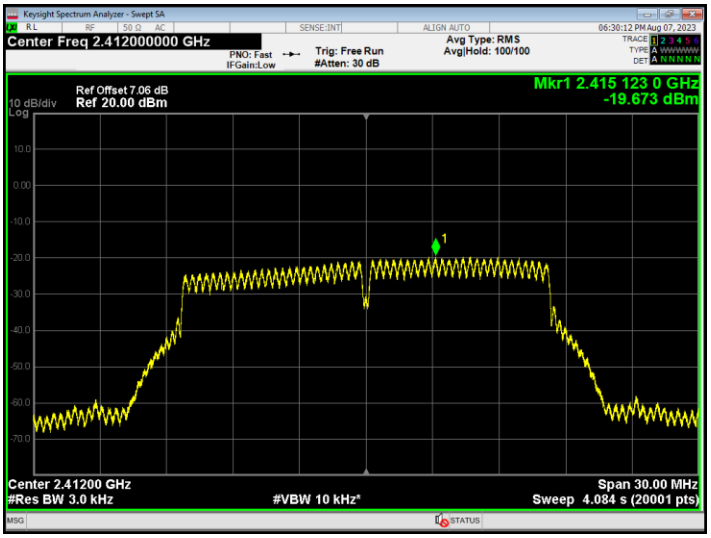
PSD NVNT b 2437MHz Ant1



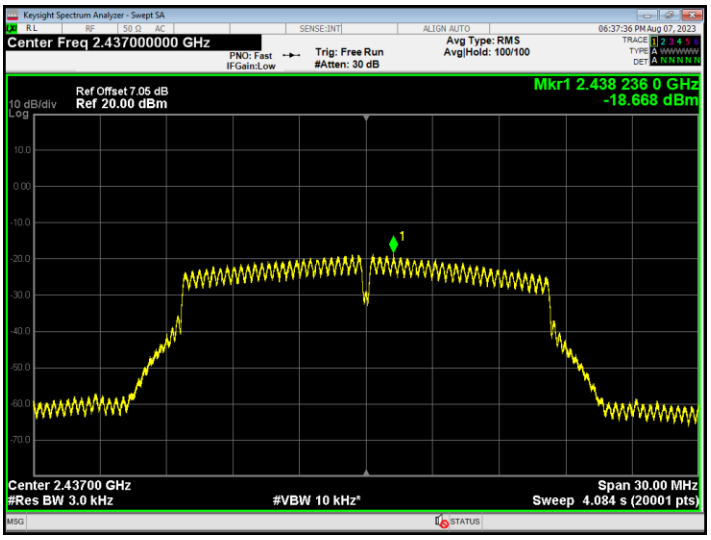
PSD NVNT b 2462MHz Ant1



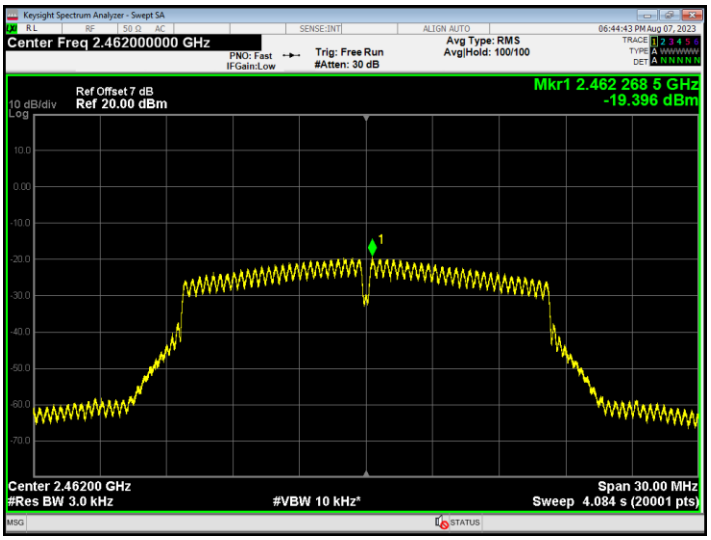
PSD NVNT g 2412MHz Ant1



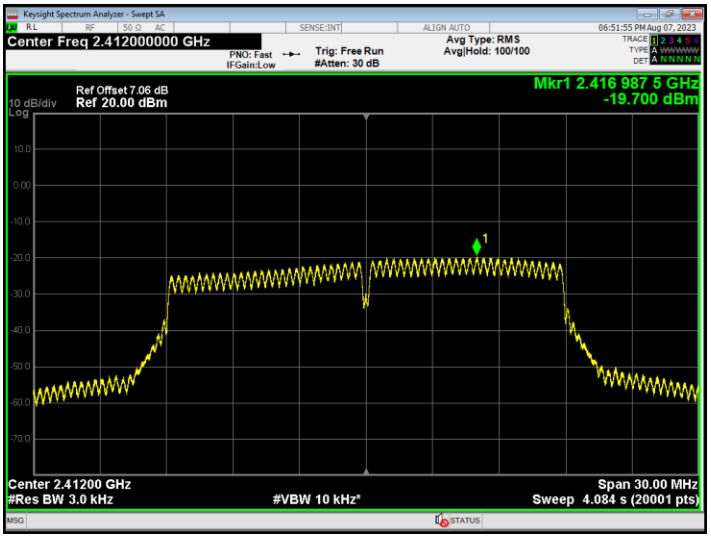
PSD NVNT g 2437MHz Ant1



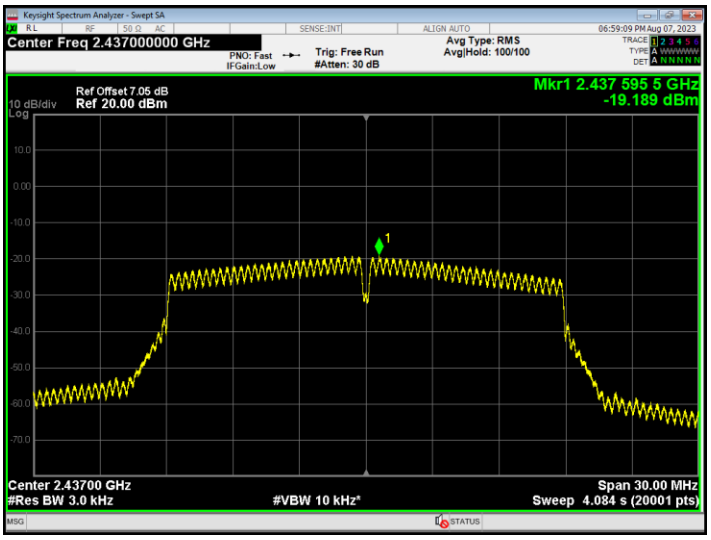
PSD NVNT g 2462MHz Ant1



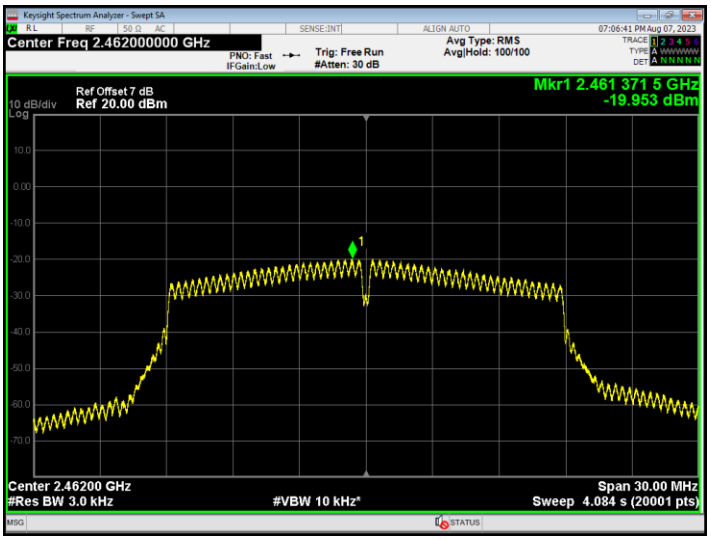
PSD NVNT n20 2412MHz Ant1



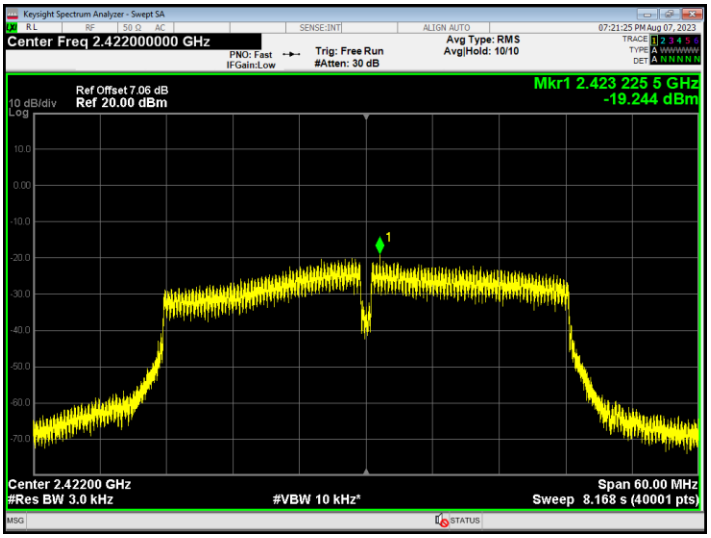
PSD NVNT n20 2437MHz Ant1



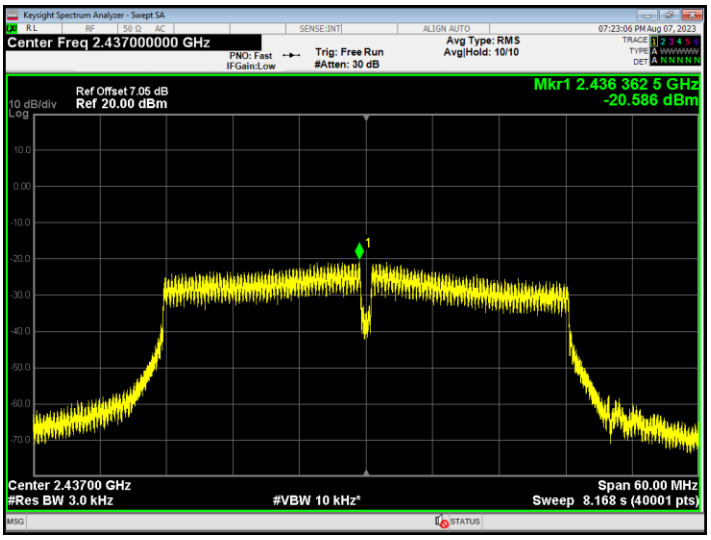
PSD NVNT n20 2462MHz Ant1



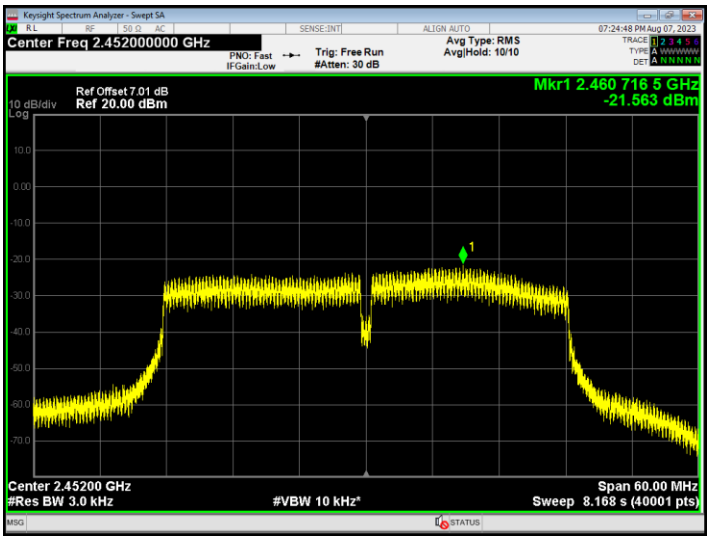
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



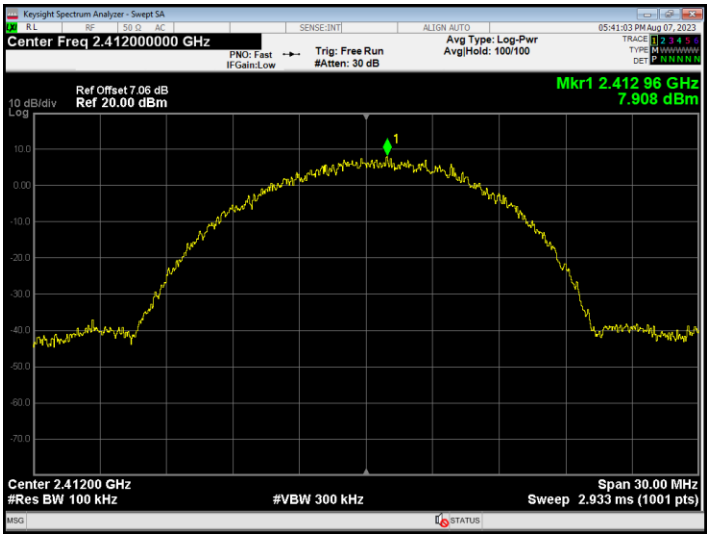
PSD NVNT n40 2452MHz Ant1



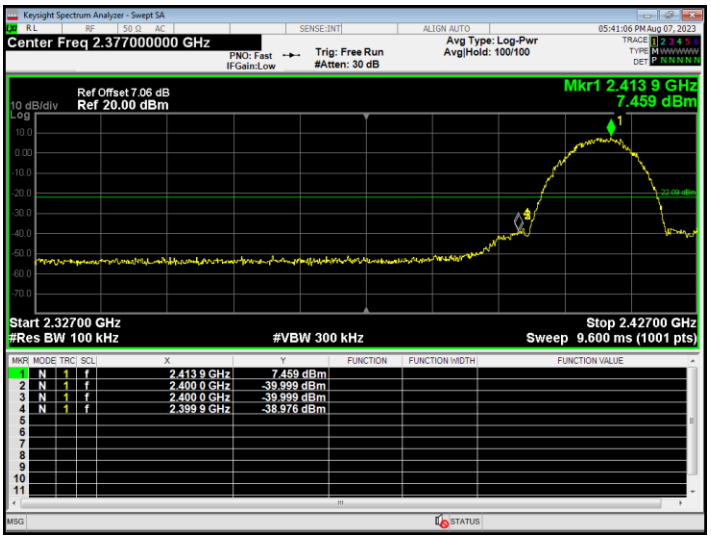
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.88	-30	Pass
NVNT	b	2462	Ant1	-59.94	-30	Pass
NVNT	g	2412	Ant1	-39.65	-30	Pass
NVNT	g	2462	Ant1	-52.83	-30	Pass
NVNT	n20	2412	Ant1	-32.27	-30	Pass
NVNT	n20	2462	Ant1	-51.29	-30	Pass
NVNT	n40	2422	Ant1	-34.81	-30	Pass
NVNT	n40	2452	Ant1	-44.87	-30	Pass

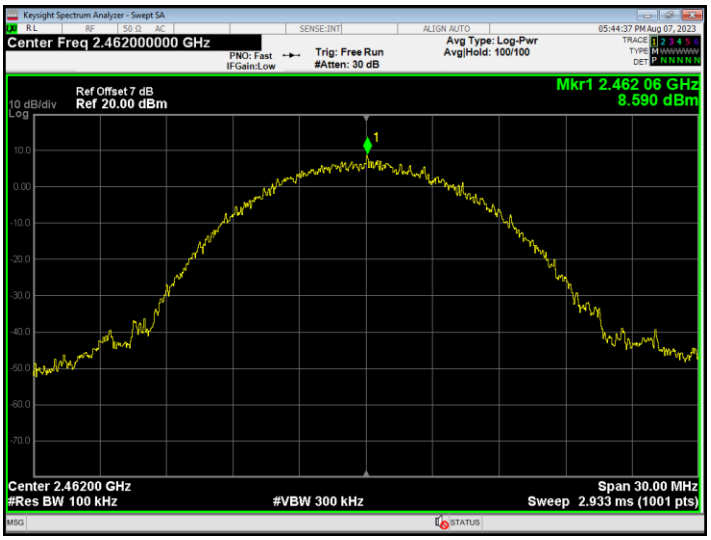
Band Edge NVNT b 2412MHz Ant1 Ref



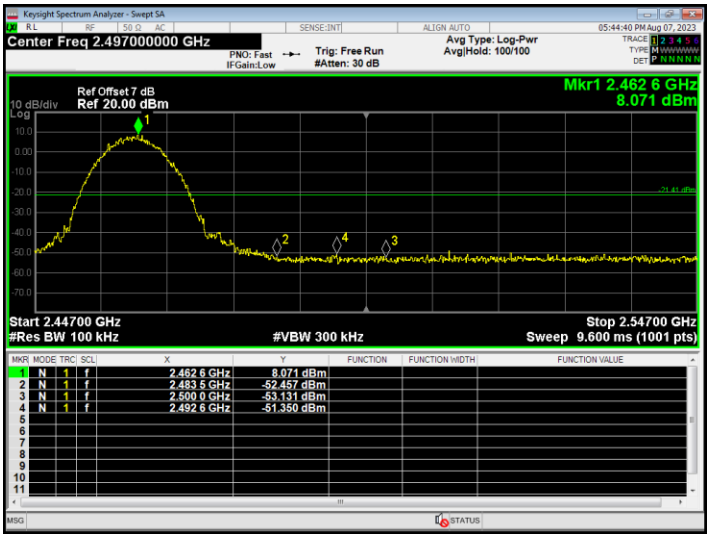
Band Edge NVNT b 2412MHz Ant1 Emission



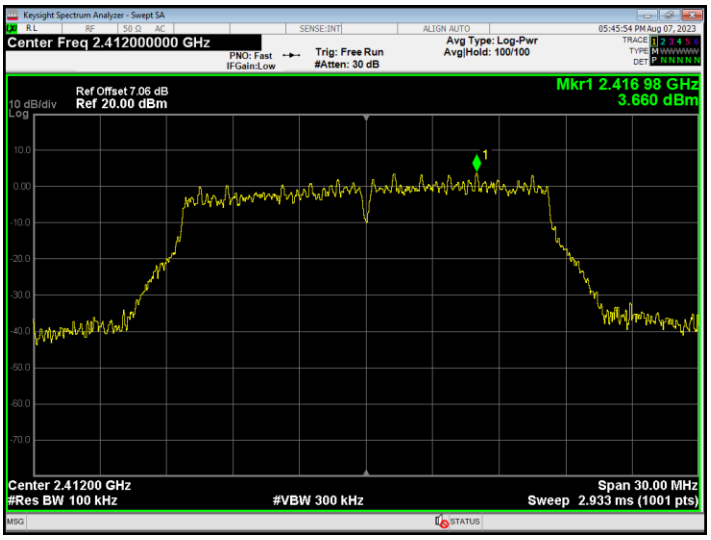
Band Edge NVNT b 2462MHz Ant1 Ref



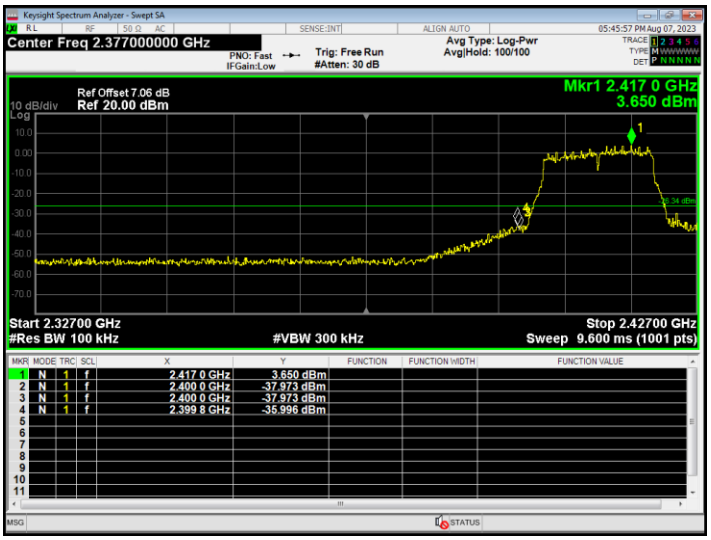
Band Edge NVNT b 2462MHz Ant1 Emission



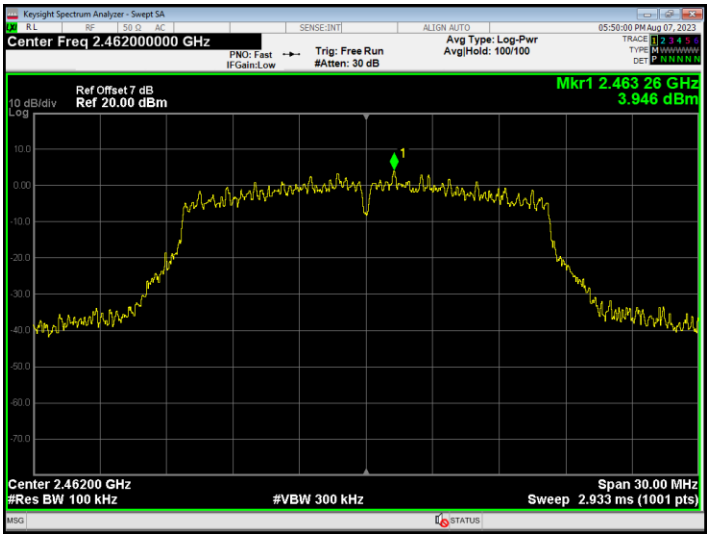
Band Edge NVNT g 2412MHz Ant1 Ref



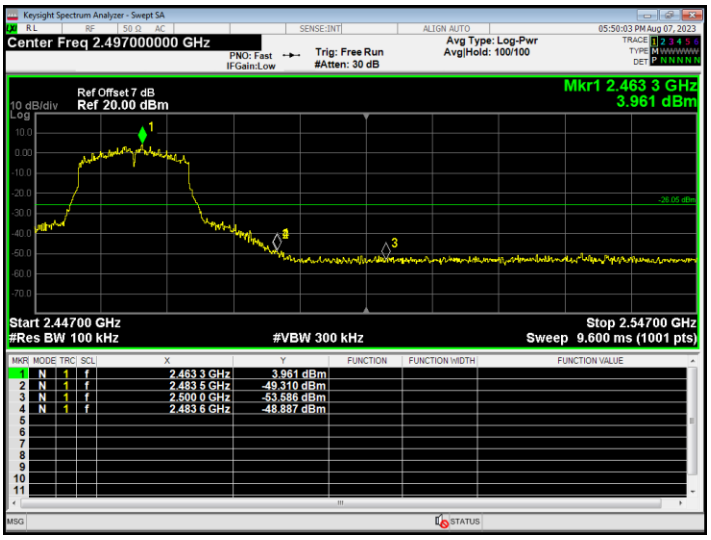
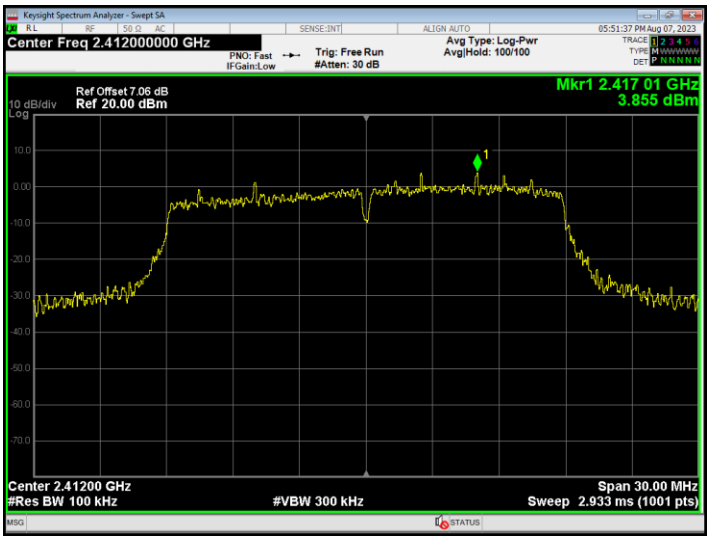
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref