

ANNEX 1

FCC Part 15C 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

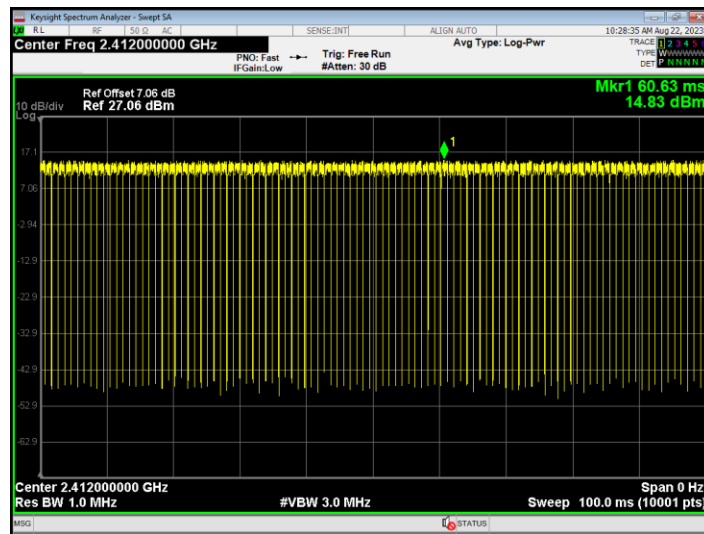
Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

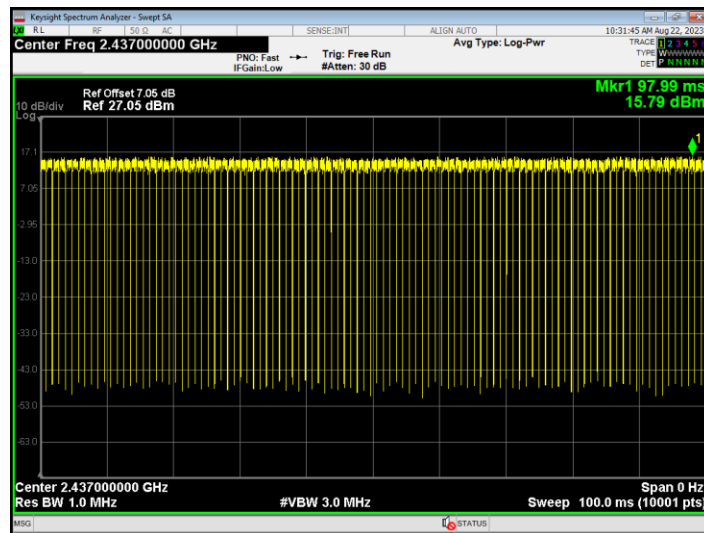
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	97.31	0.12
NVNT	b	2437	Ant1	97.32	0.12
NVNT	b	2462	Ant1	97.32	0.12
NVNT	g	2412	Ant1	85.12	0.7
NVNT	g	2437	Ant1	85.35	0.69
NVNT	g	2462	Ant1	85.32	0.69
NVNT	n20	2412	Ant1	97.61	0.11
NVNT	n20	2437	Ant1	97.61	0.11
NVNT	n20	2462	Ant1	97.55	0.11

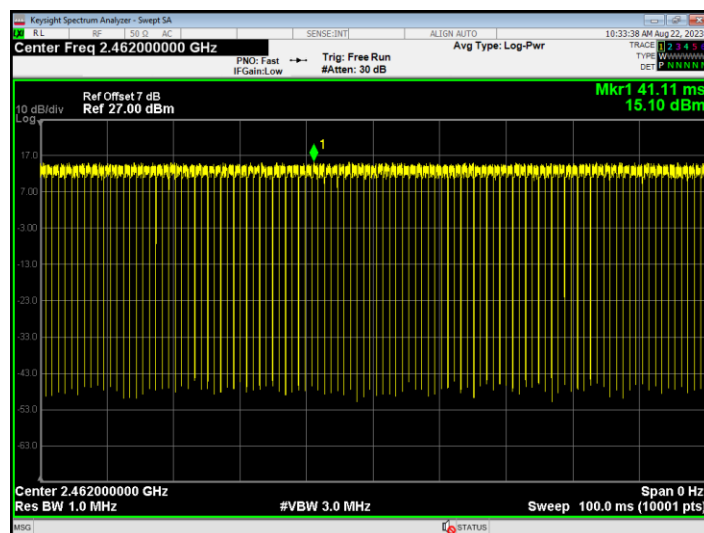
Duty Cycle NVNT b 2412MHz Ant1



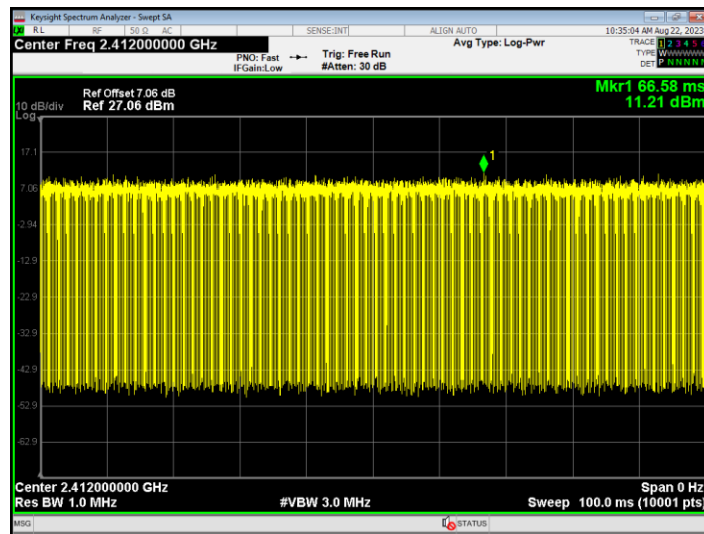
Duty Cycle NVNT b 2437MHz Ant1



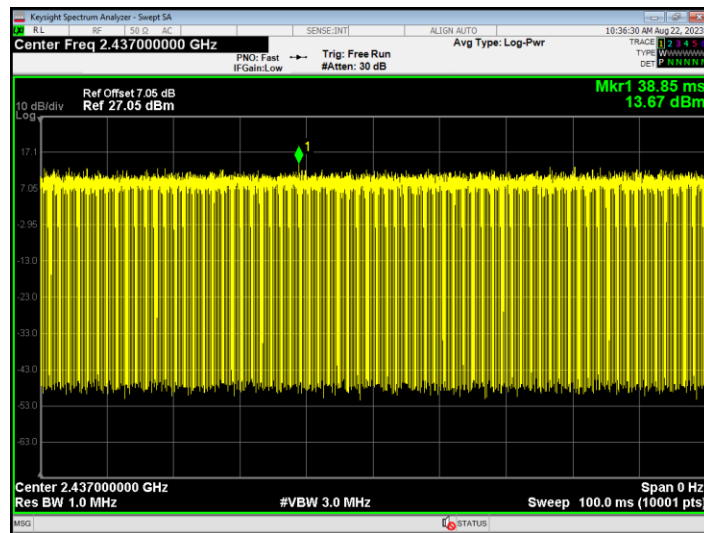
Duty Cycle NVNT b 2462MHz Ant1



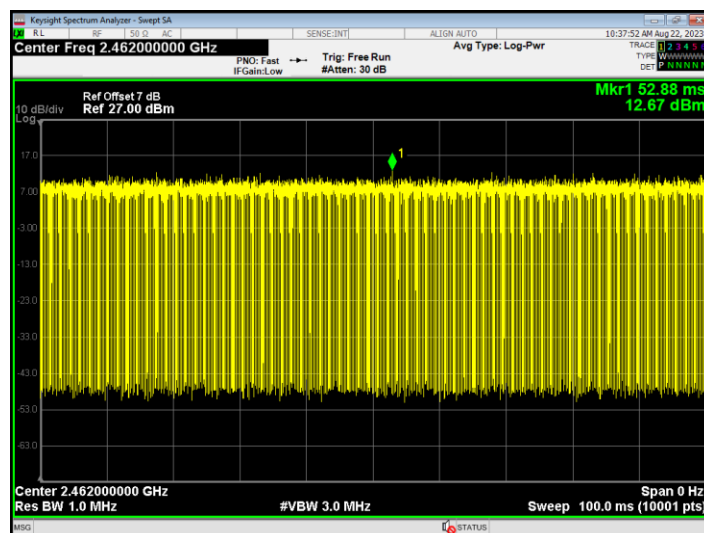
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



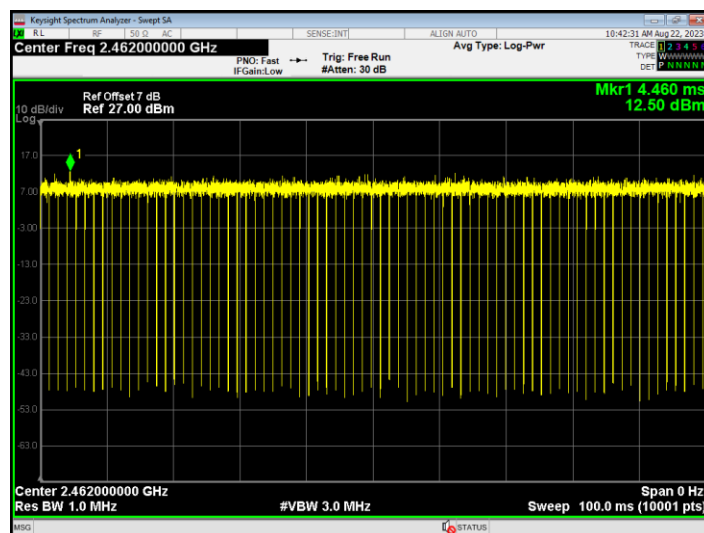
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



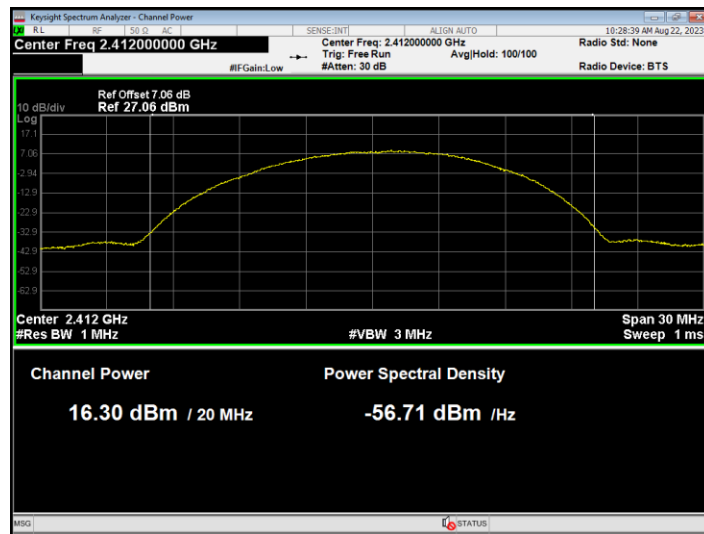
Duty Cycle NVNT n20 2462MHz Ant1



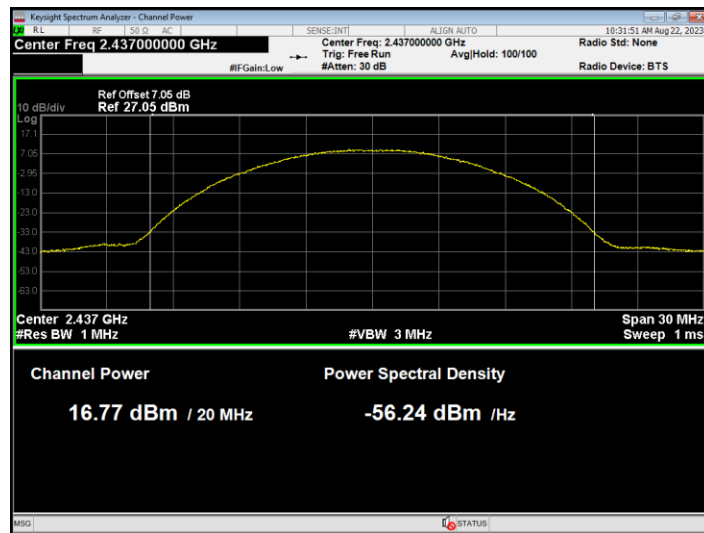
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.297	0.12	16.417	30	Pass
NVNT	b	2437	Ant1	16.767	0.12	16.887	30	Pass
NVNT	b	2462	Ant1	15.919	0.12	16.039	30	Pass
NVNT	g	2412	Ant1	12.976	0.7	13.676	30	Pass
NVNT	g	2437	Ant1	13.688	0.69	14.378	30	Pass
NVNT	g	2462	Ant1	12.533	0.69	13.223	30	Pass
NVNT	n20	2412	Ant1	14.265	0.11	14.375	30	Pass
NVNT	n20	2437	Ant1	14.475	0.11	14.585	30	Pass
NVNT	n20	2462	Ant1	13.518	0.11	13.628	30	Pass

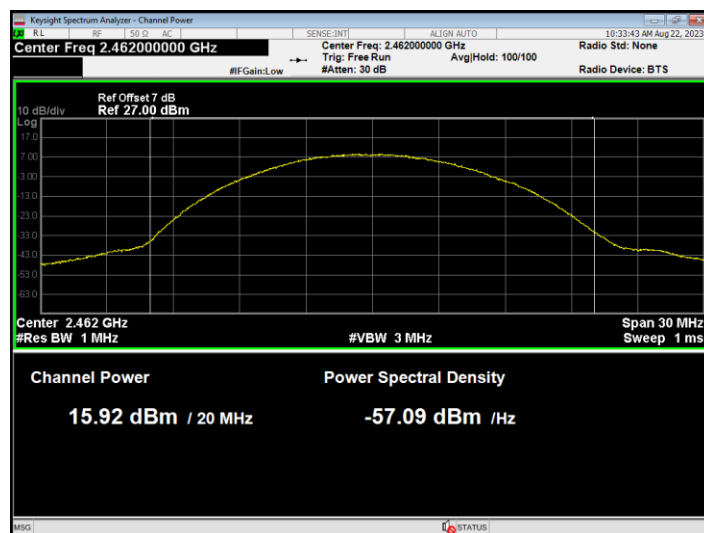
Power NVNT b 2412MHz Ant1



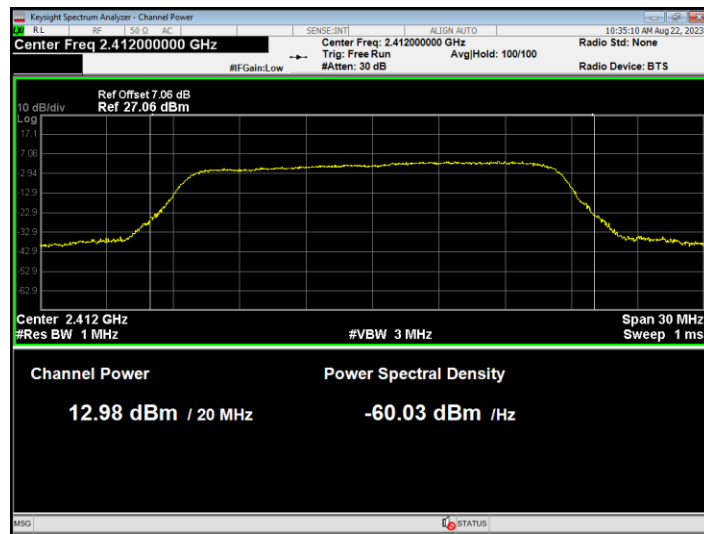
Power NVNT b 2437MHz Ant1



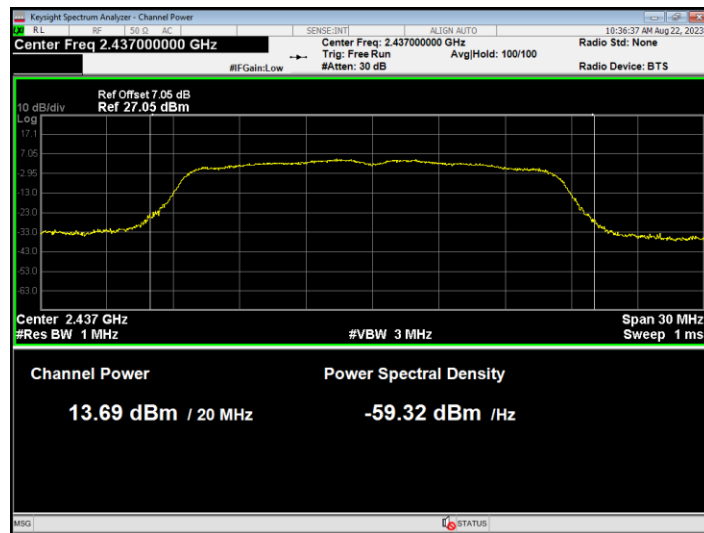
Power NVNT b 2462MHz Ant1



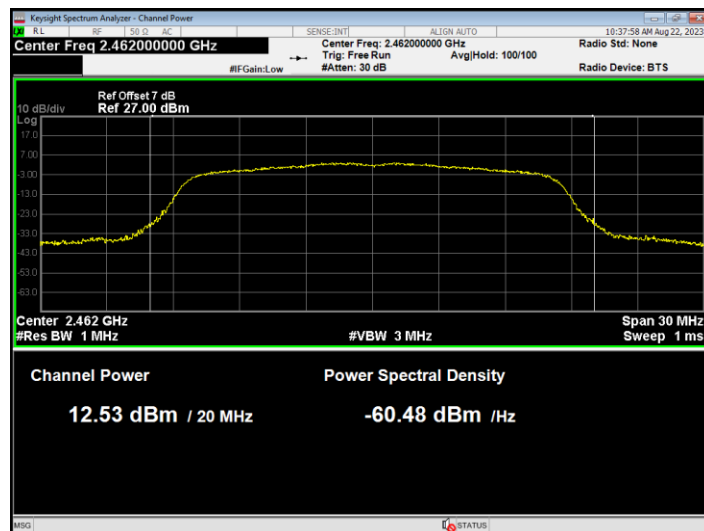
Power NVNT g 2412MHz Ant1



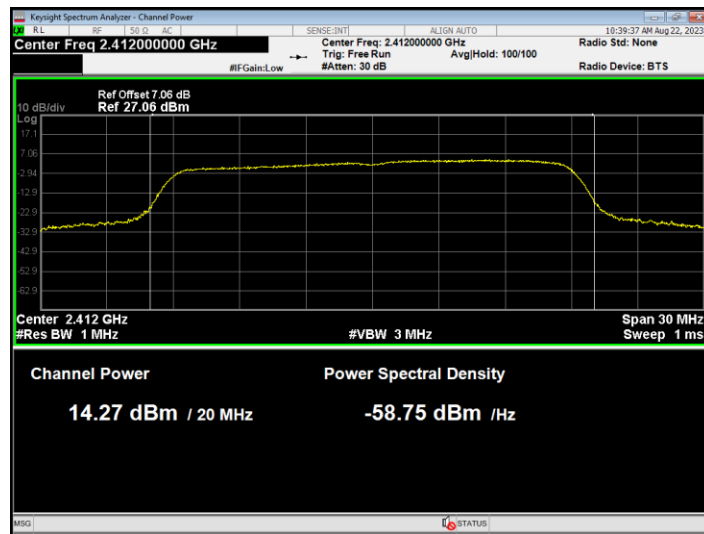
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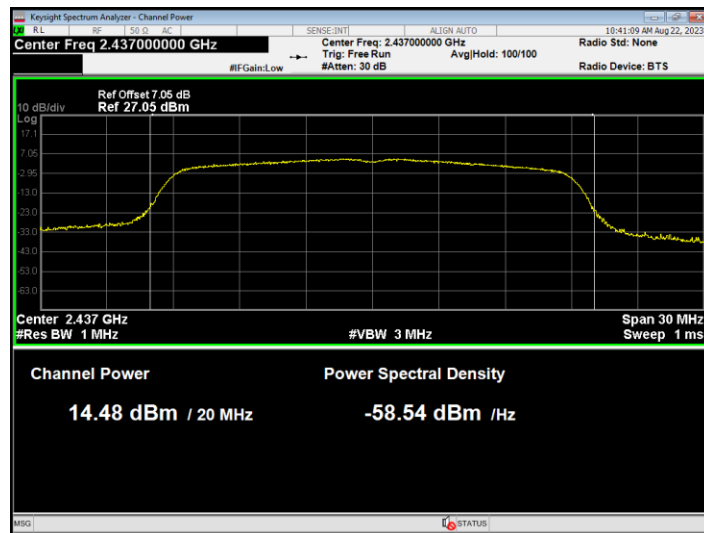
Power NVNT g 2462MHz Ant1



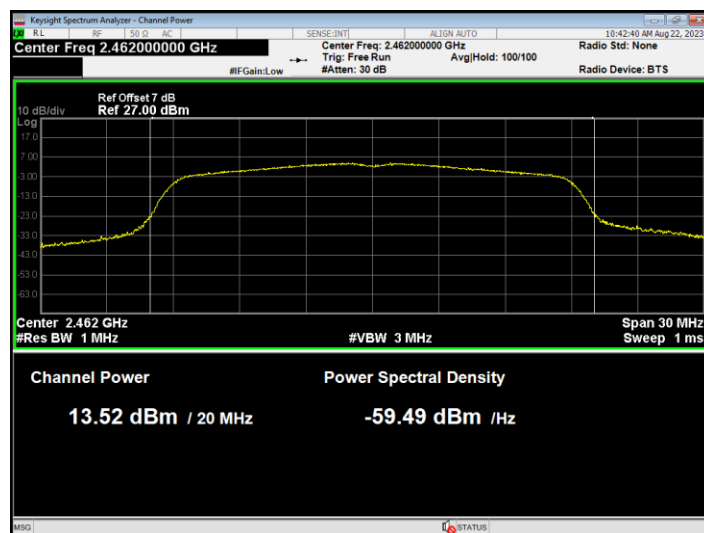
Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



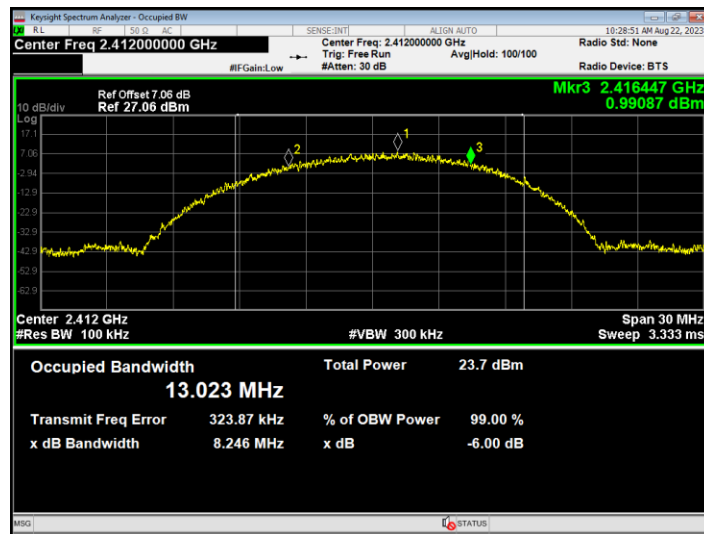
Power NVNT n20 2462MHz Ant1



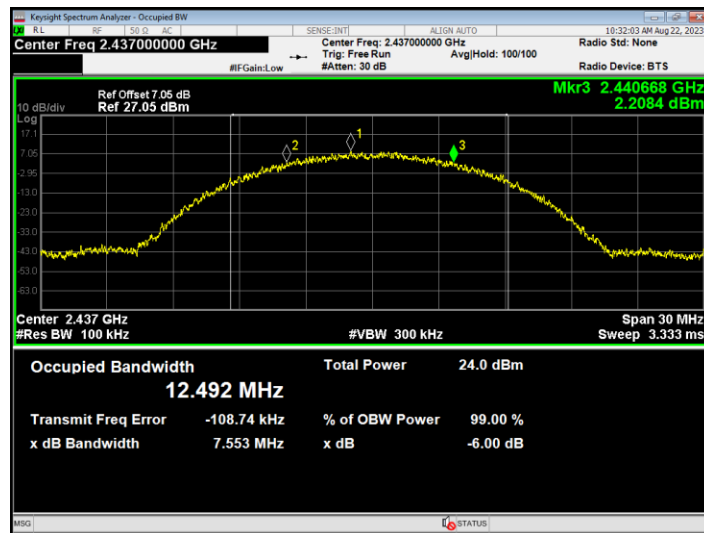
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.246	0.5	Pass
NVNT	b	2437	Ant1	7.553	0.5	Pass
NVNT	b	2462	Ant1	7.501	0.5	Pass
NVNT	g	2412	Ant1	15.762	0.5	Pass
NVNT	g	2437	Ant1	15.076	0.5	Pass
NVNT	g	2462	Ant1	15.085	0.5	Pass
NVNT	n20	2412	Ant1	14.998	0.5	Pass
NVNT	n20	2437	Ant1	14.157	0.5	Pass
NVNT	n20	2462	Ant1	12.558	0.5	Pass

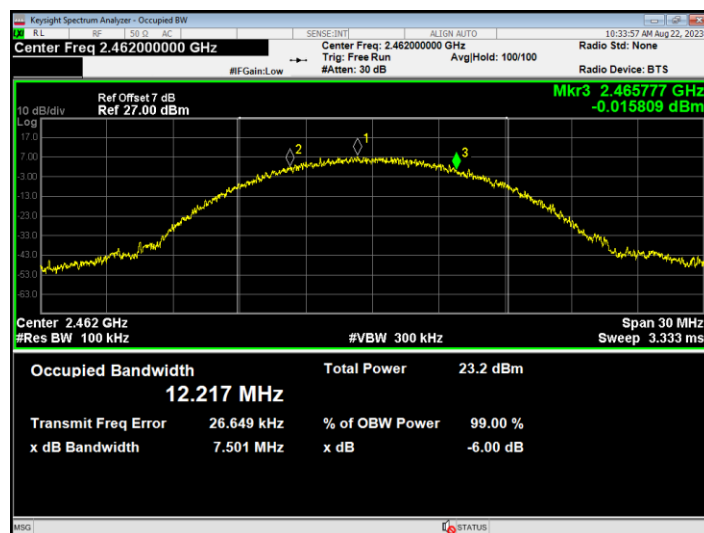
-6dB Bandwidth NVNT b 2412MHz Ant1



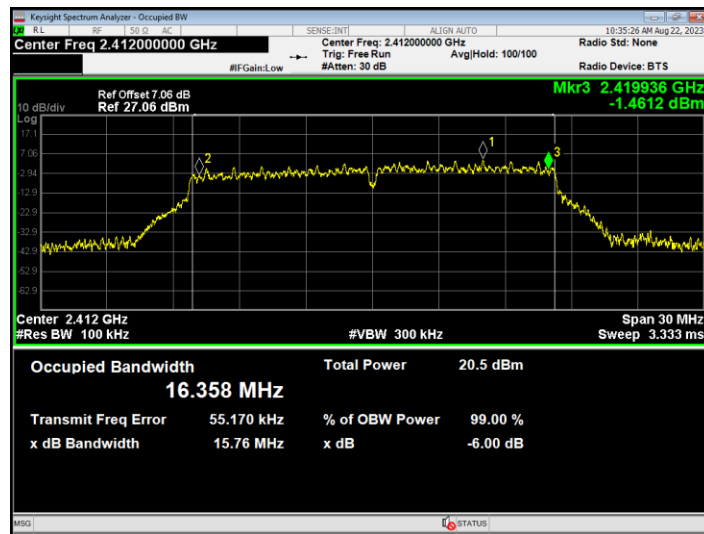
-6dB Bandwidth NVNT b 2437MHz Ant1



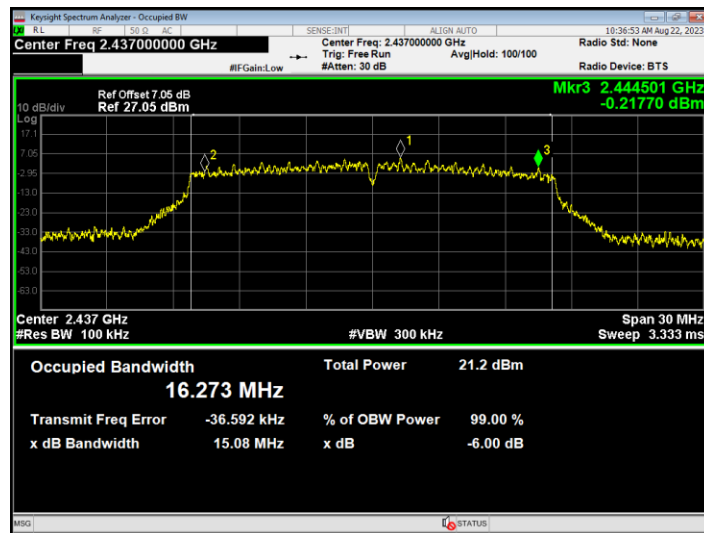
-6dB Bandwidth NVNT b 2462MHz Ant1



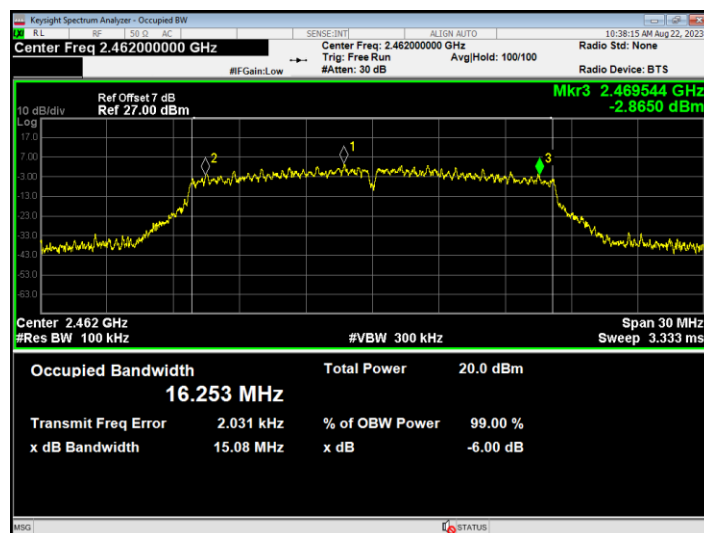
-6dB Bandwidth NVNT g 2412MHz Ant1



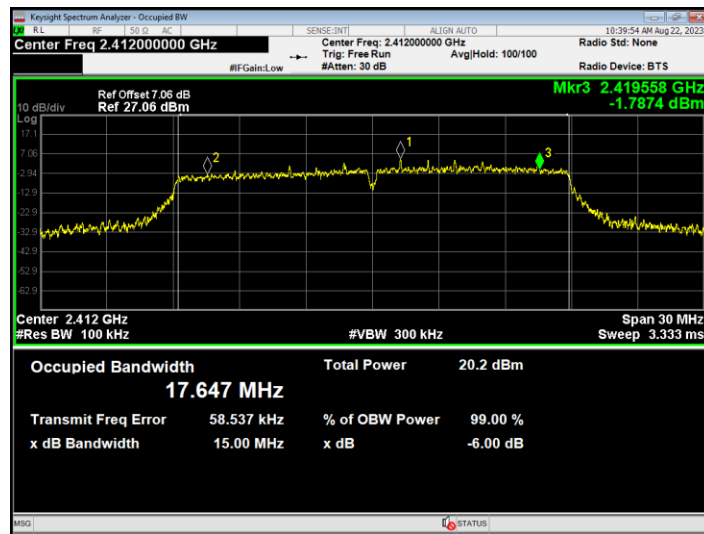
-6dB Bandwidth NVNT g 2437MHz Ant1



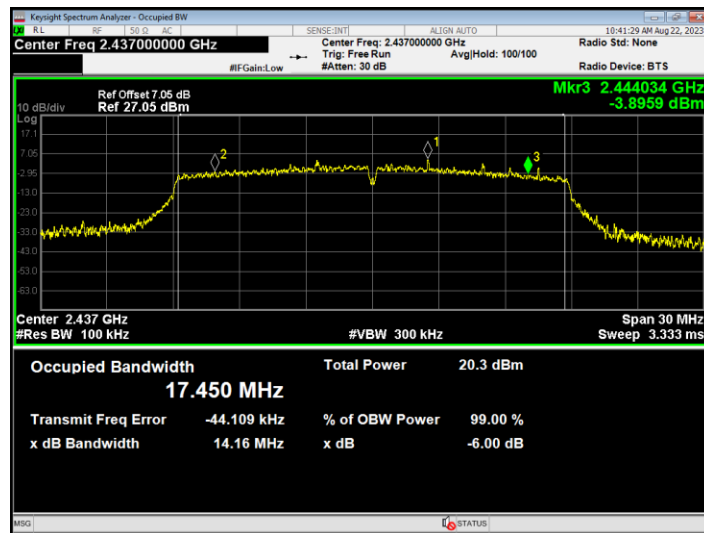
-6dB Bandwidth NVNT g 2462MHz Ant1



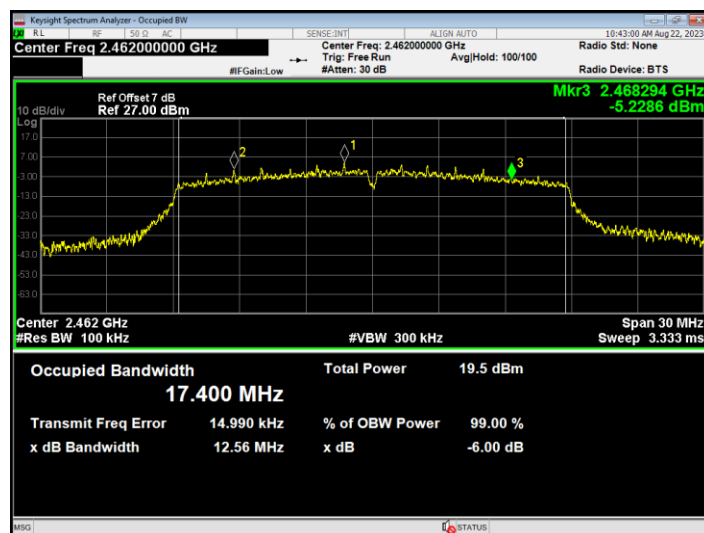
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



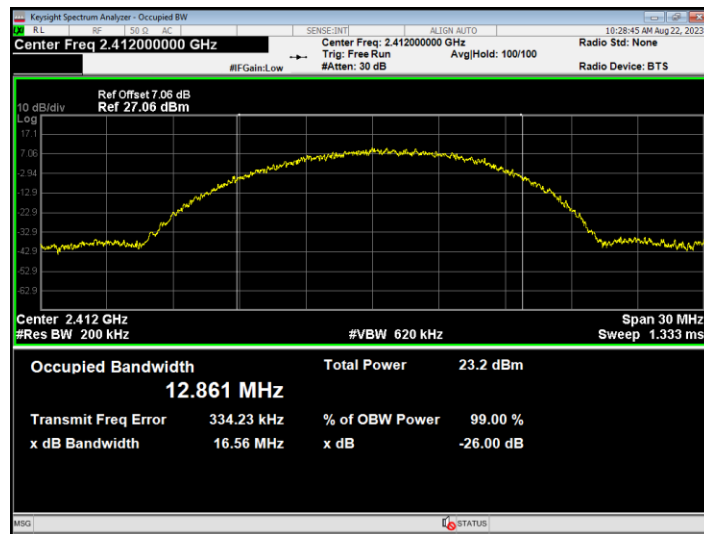
-6dB Bandwidth NVNT n20 2462MHz Ant1



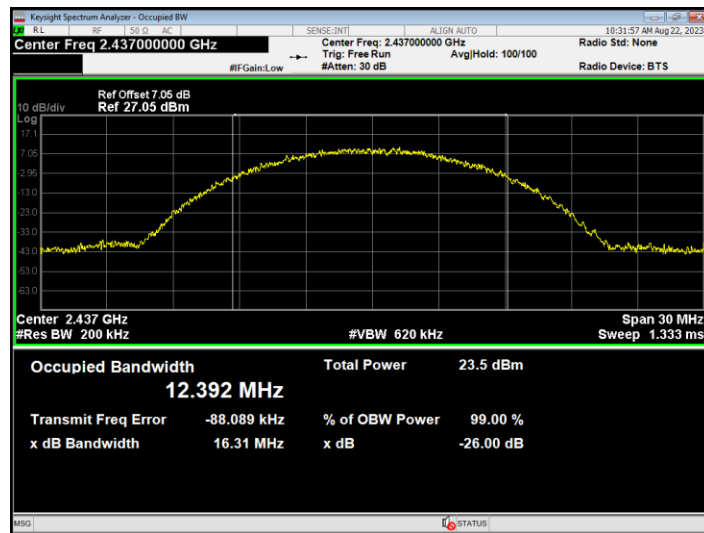
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.86085892
NVNT	b	2437	Ant1	12.39168606
NVNT	b	2462	Ant1	12.12749438
NVNT	g	2412	Ant1	16.47511245
NVNT	g	2437	Ant1	16.33696683
NVNT	g	2462	Ant1	16.2597915
NVNT	n20	2412	Ant1	17.68765145
NVNT	n20	2437	Ant1	17.45738307
NVNT	n20	2462	Ant1	17.38603828

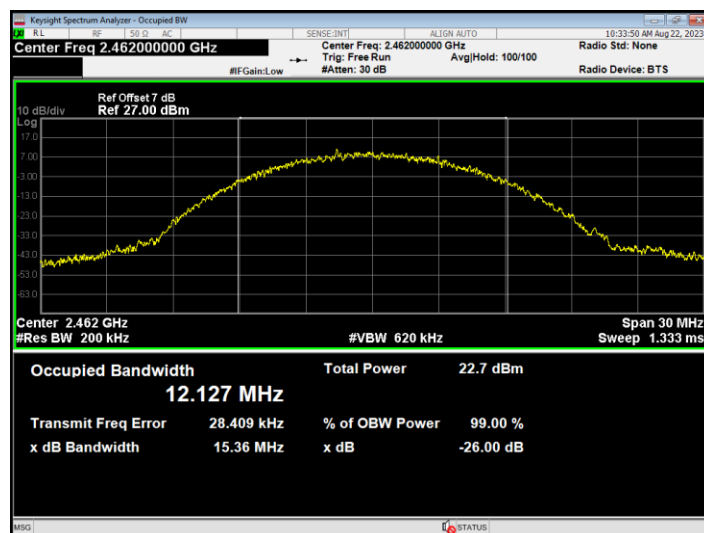
OBW NVNT b 2412MHz Ant1



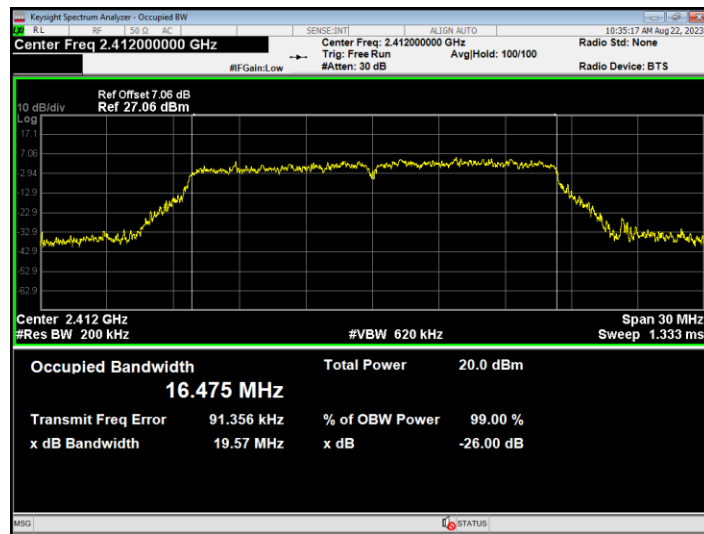
OBW NVNT b 2437MHz Ant1



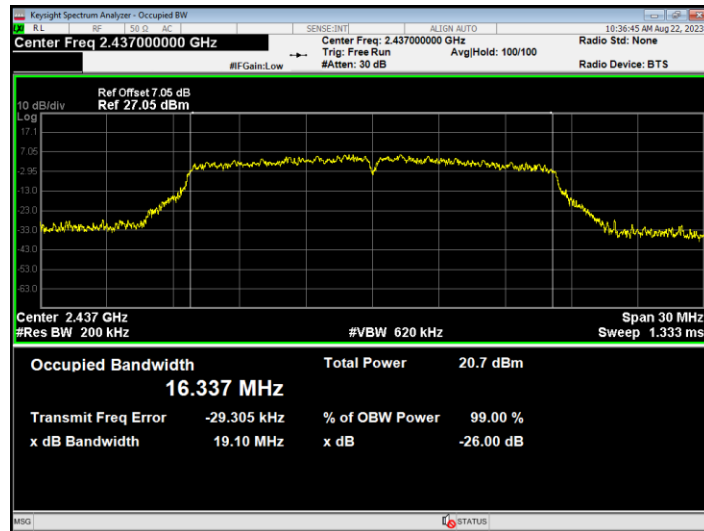
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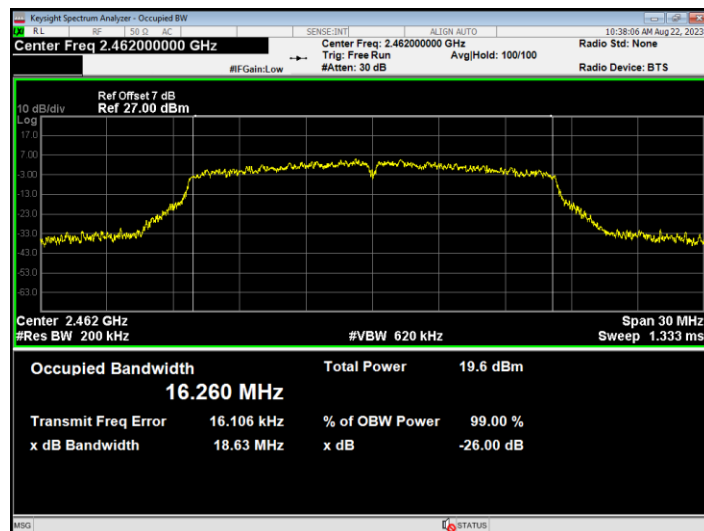
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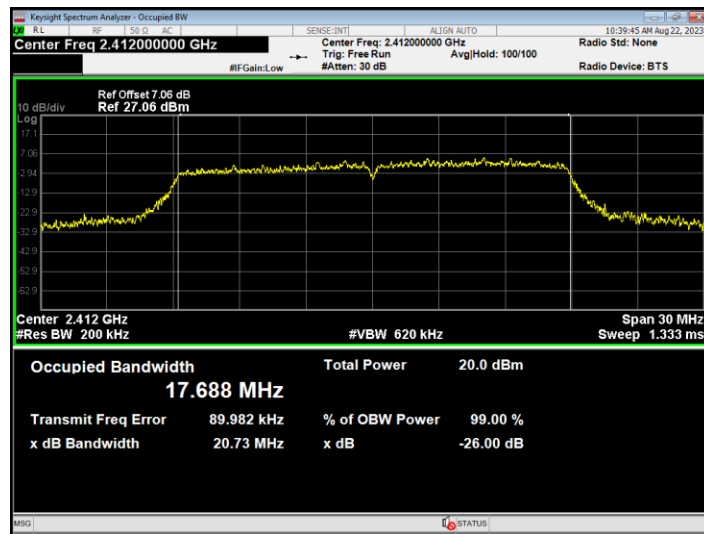
OBW NVNT g 2437MHz Ant1



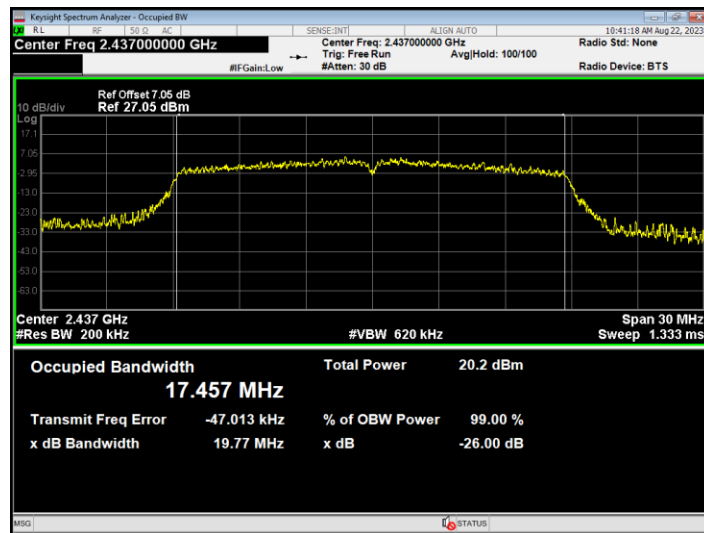
OBW NVNT g 2462MHz Ant1



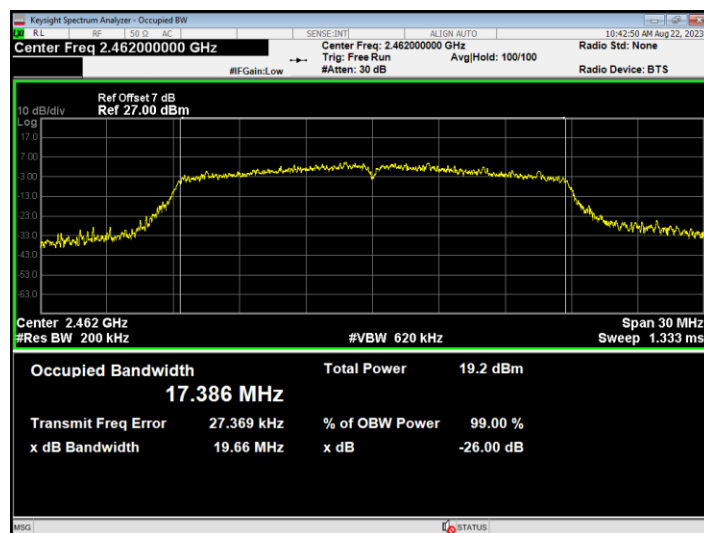
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



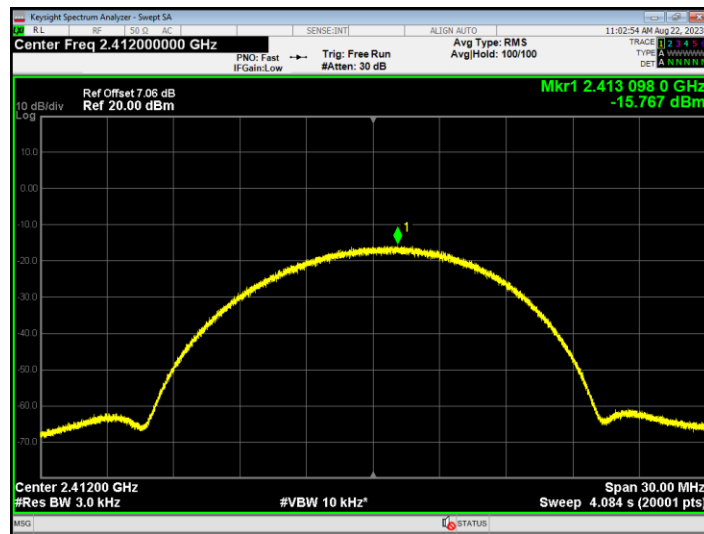
OBW NVNT n20 2462MHz Ant1



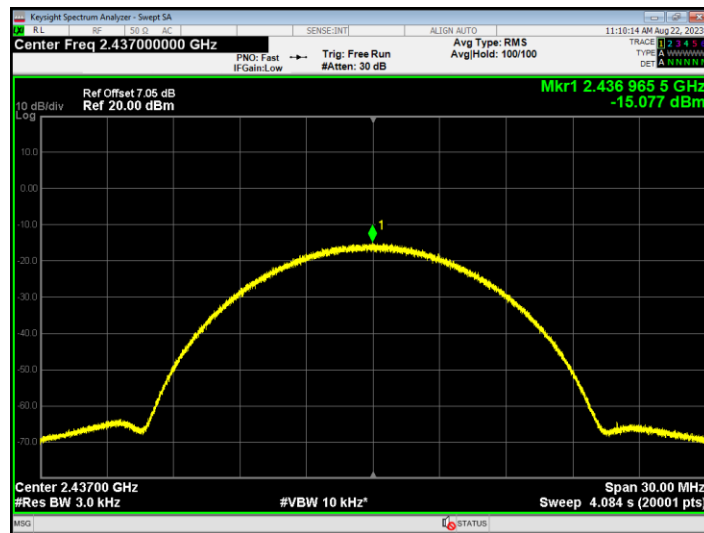
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Reading (dBm)	Duty Factor (dB)	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.767	0.12	-15.65	8	Pass
NVNT	b	2437	Ant1	-15.077	0.12	-14.96	8	Pass
NVNT	b	2462	Ant1	-15.952	0.12	-15.83	8	Pass
NVNT	g	2412	Ant1	-19.715	0.7	-19.02	8	Pass
NVNT	g	2437	Ant1	-18.799	0.69	-18.11	8	Pass
NVNT	g	2462	Ant1	-19.142	0.69	-18.45	8	Pass
NVNT	n20	2412	Ant1	-19.861	0.11	-19.75	8	Pass
NVNT	n20	2437	Ant1	-18.783	0.11	-18.67	8	Pass
NVNT	n20	2462	Ant1	-19.314	0.11	-19.20	8	Pass

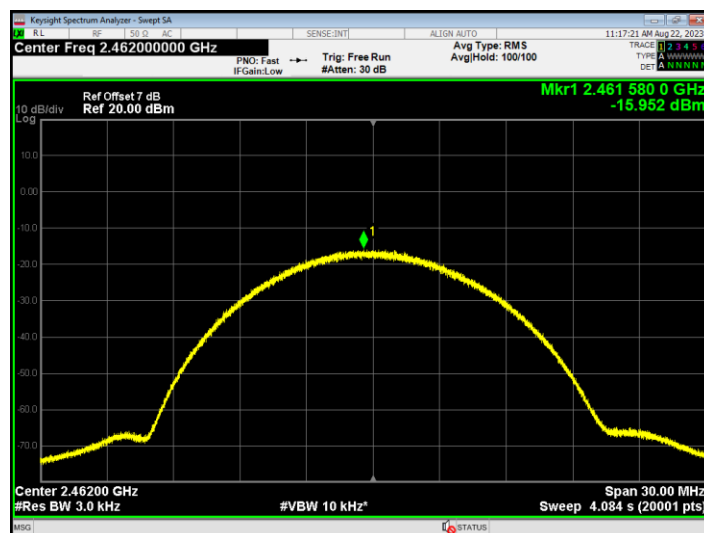
PSD NVNT b 2412MHz Ant1



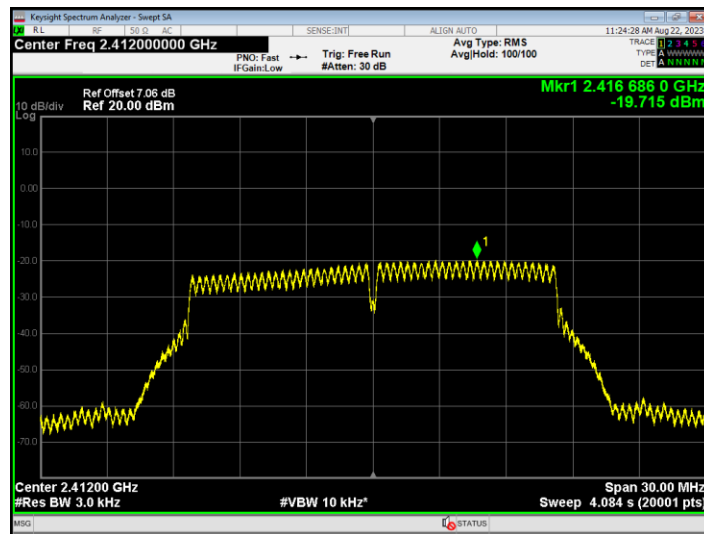
PSD NVNT b 2437MHz Ant1



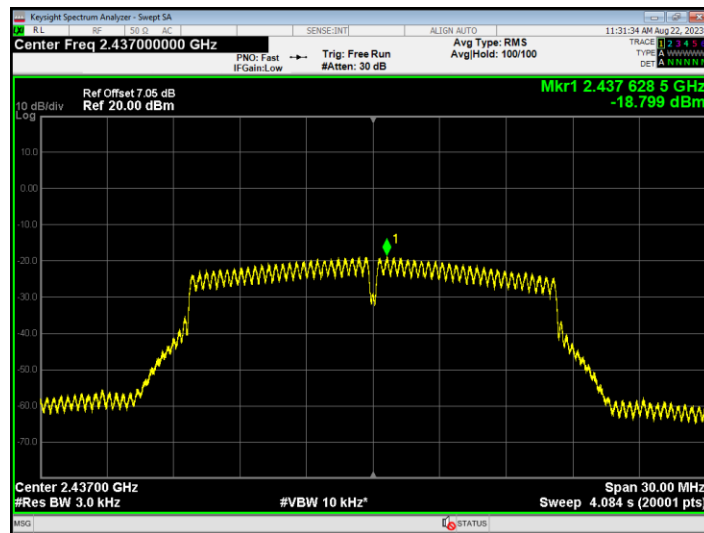
PSD NVNT b 2462MHz Ant1



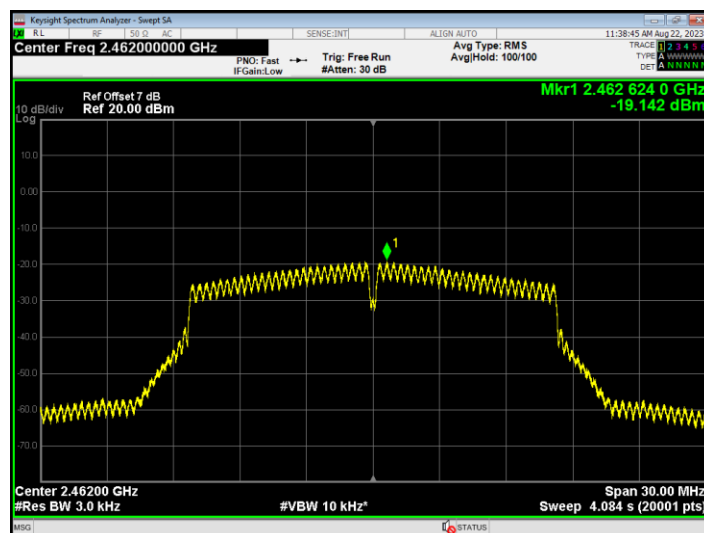
PSD NVNT g 2412MHz Ant1



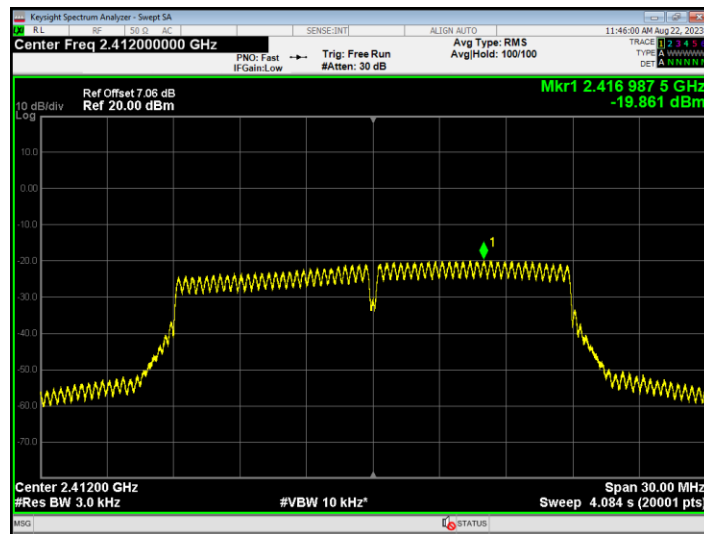
PSD NVNT g 2437MHz Ant1



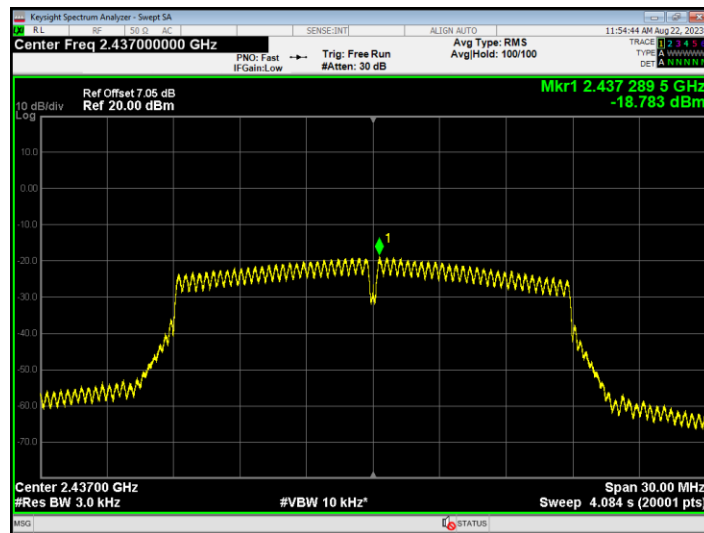
PSD NVNT g 2462MHz Ant1



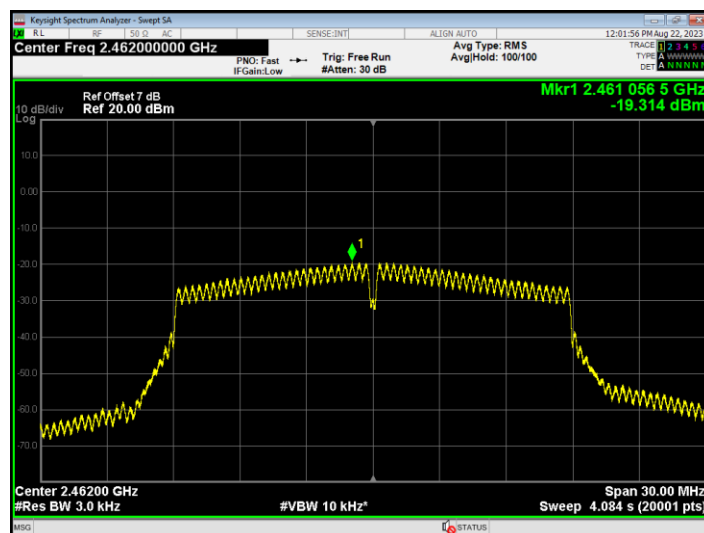
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



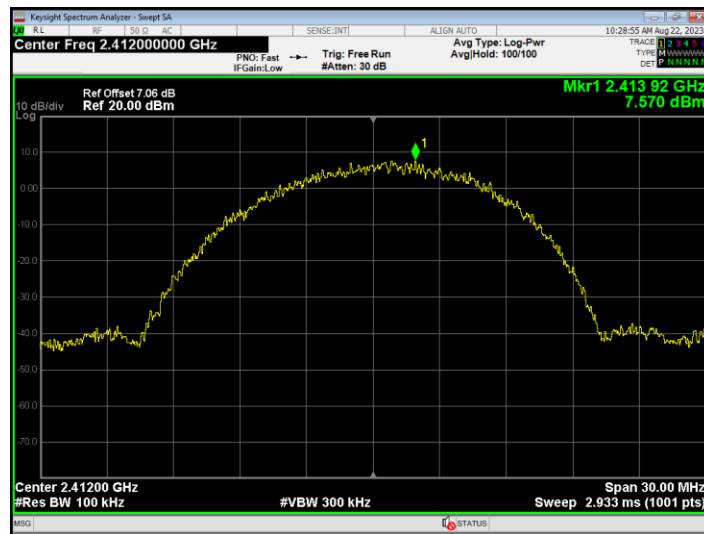
PSD NVNT n20 2462MHz Ant1



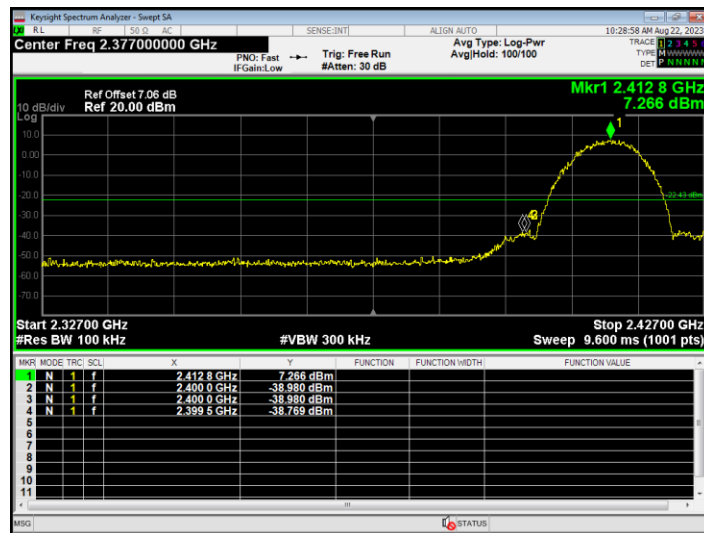
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.33	-30	Pass
NVNT	b	2462	Ant1	-59.17	-30	Pass
NVNT	g	2412	Ant1	-39.84	-30	Pass
NVNT	g	2462	Ant1	-53.57	-30	Pass
NVNT	n20	2412	Ant1	-31.04	-30	Pass
NVNT	n20	2462	Ant1	-50.71	-30	Pass

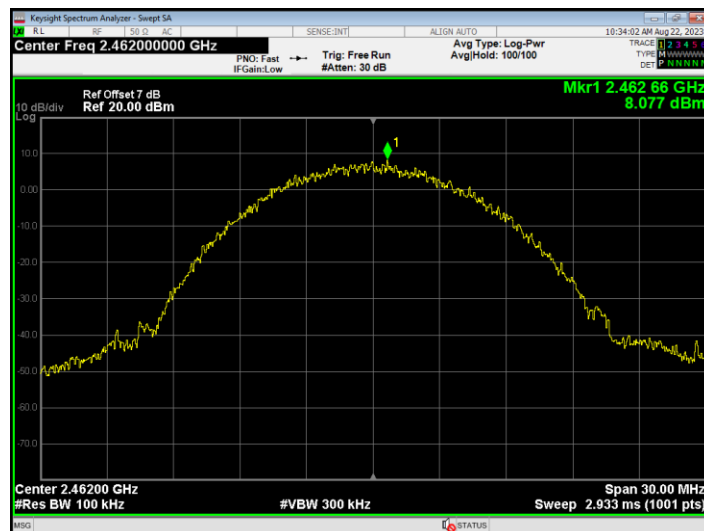
Band Edge NVNT b 2412MHz Ant1 Ref



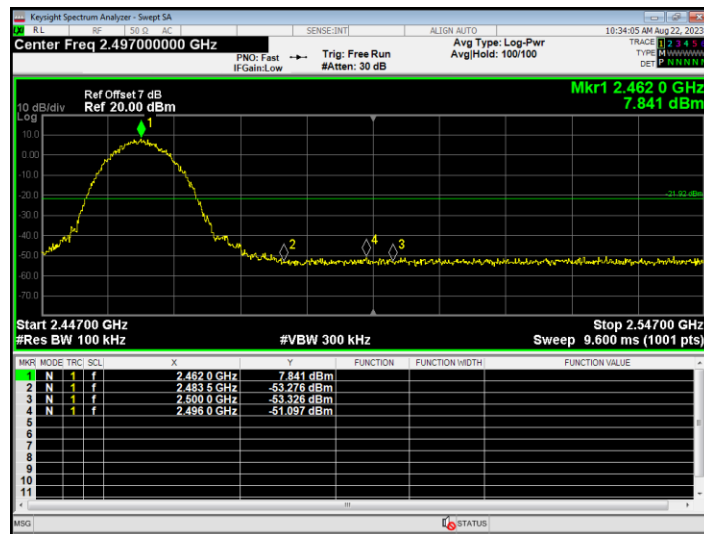
Band Edge NVNT b 2412MHz Ant1 Emission



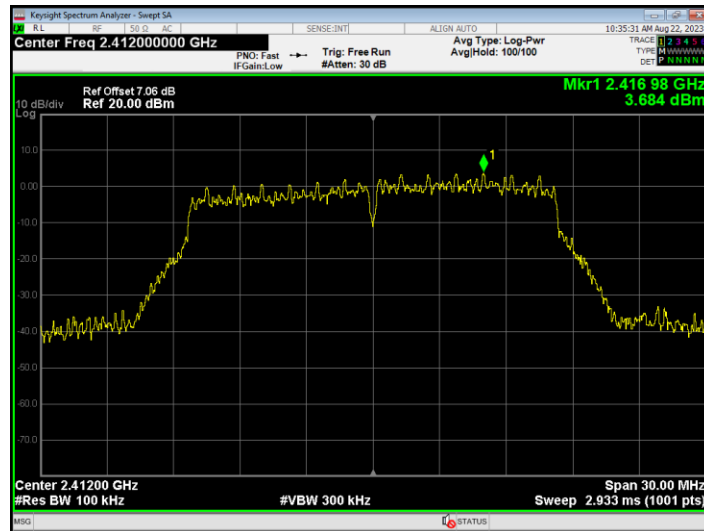
Band Edge NVNT b 2462MHz Ant1 Ref



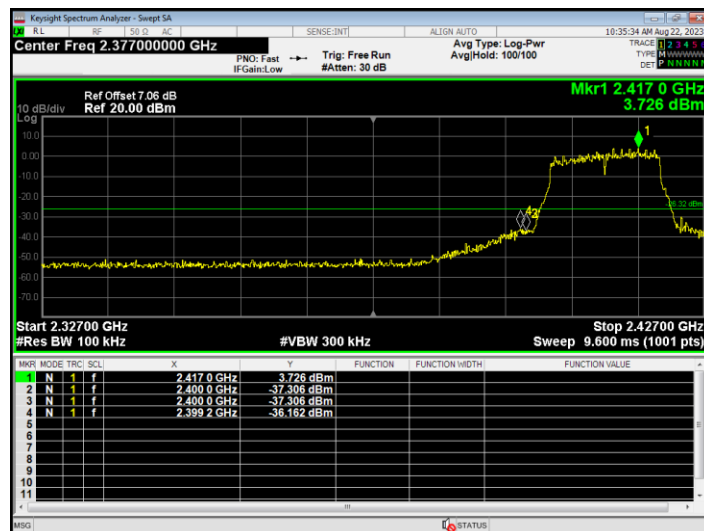
Band Edge NVNT b 2462MHz Ant1 Emission



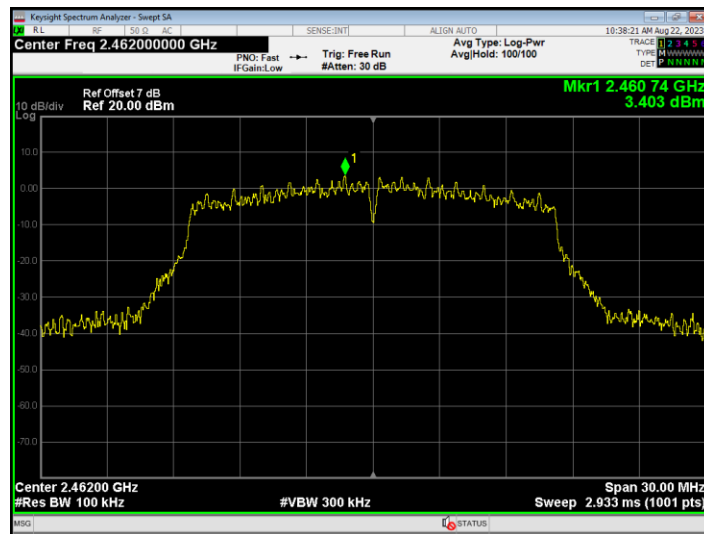
Band Edge NVNT g 2412MHz Ant1 Ref



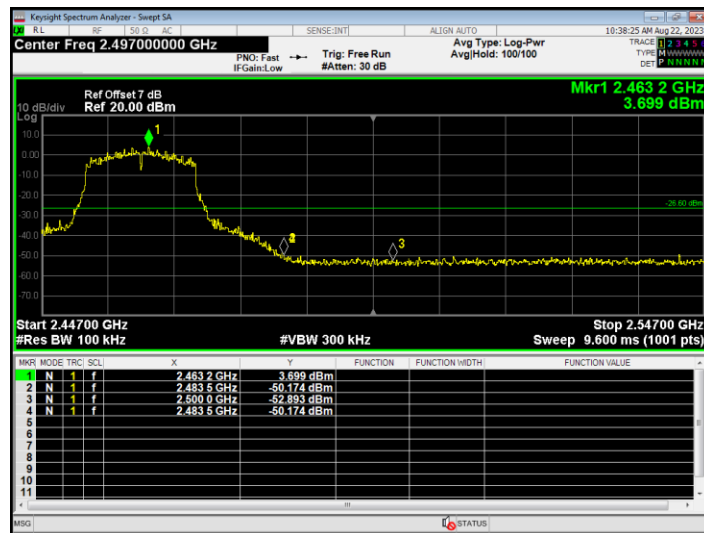
Band Edge NVNT g 2412MHz Ant1 Emission



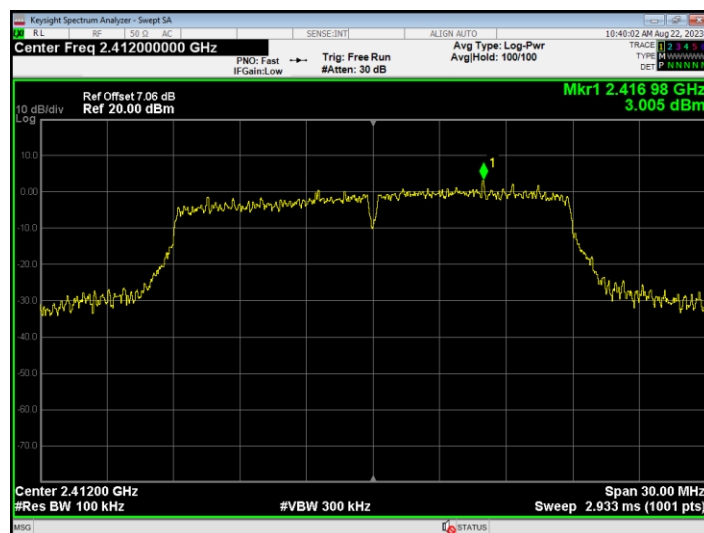
Band Edge NVNT g 2462MHz Ant1 Ref



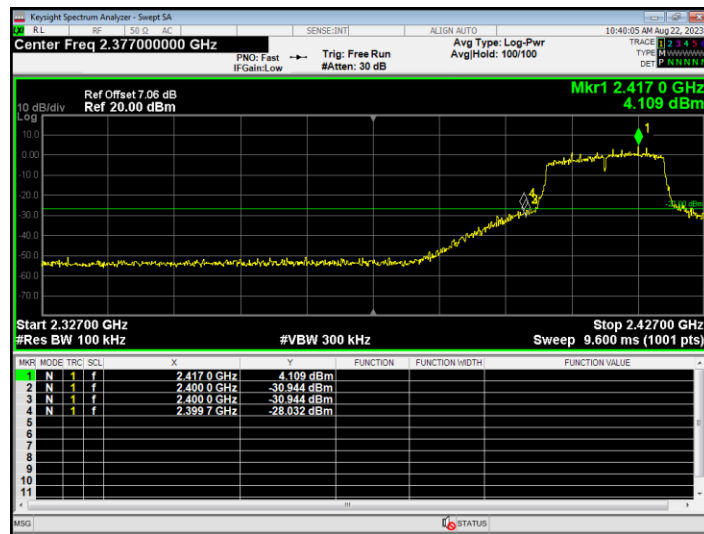
Band Edge NVNT g 2462MHz Ant1 Emission



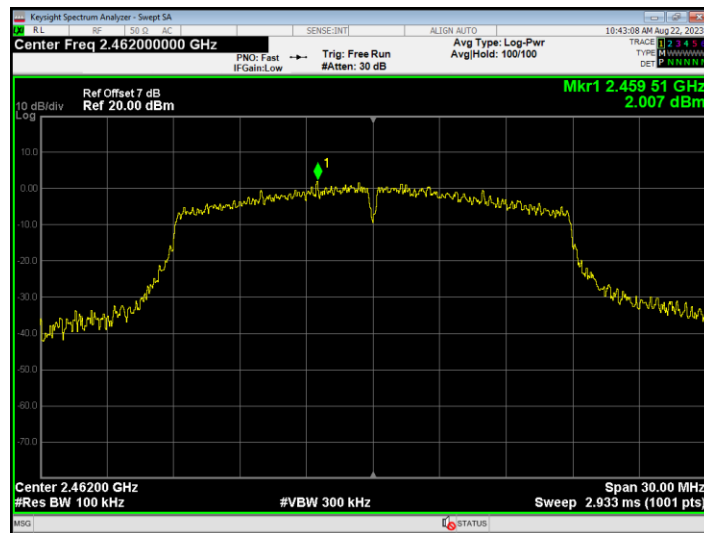
Band Edge NVNT n20 2412MHz Ant1 Ref



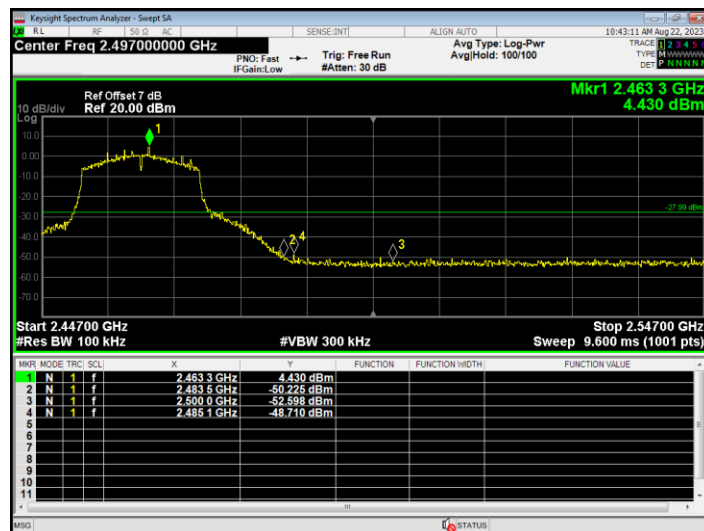
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



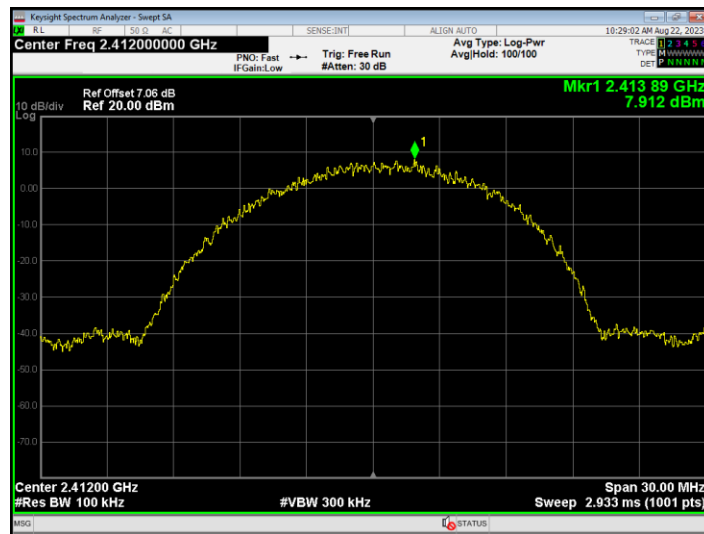
Band Edge NVNT n20 2462MHz Ant1 Emission



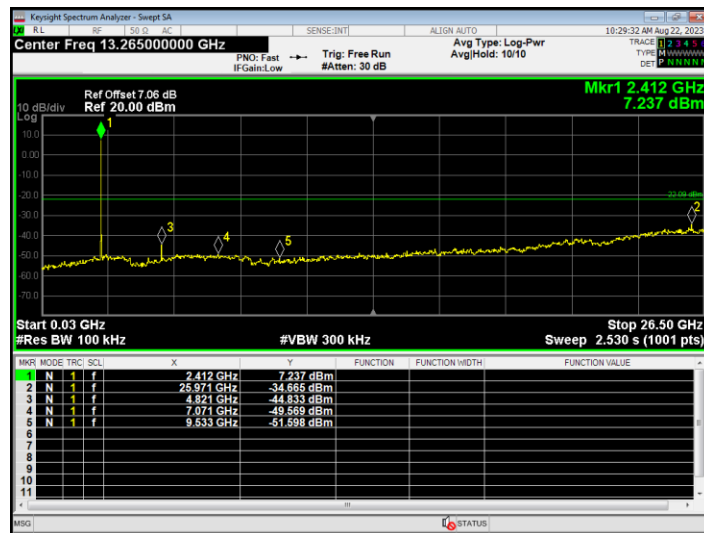
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.57	-30	Pass
NVNT	b	2437	Ant1	-44.87	-30	Pass
NVNT	b	2462	Ant1	-44.57	-30	Pass
NVNT	g	2412	Ant1	-39.66	-30	Pass
NVNT	g	2437	Ant1	-41.22	-30	Pass
NVNT	g	2462	Ant1	-39.8	-30	Pass
NVNT	n20	2412	Ant1	-40.99	-30	Pass
NVNT	n20	2437	Ant1	-38.9	-30	Pass
NVNT	n20	2462	Ant1	-40.22	-30	Pass

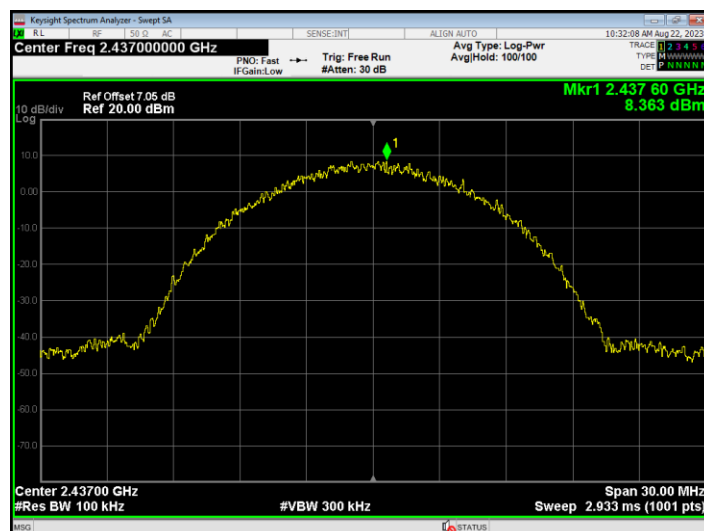
Tx. Spurious NVNT b 2412MHz Ant1 Ref



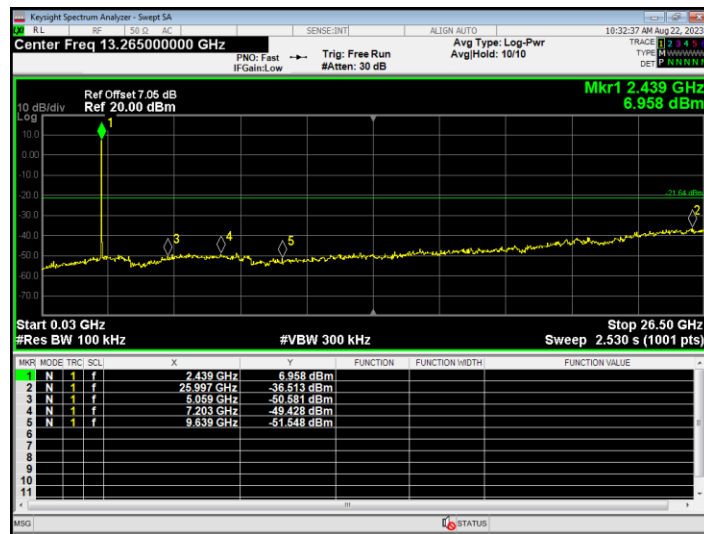
Tx. Spurious NVNT b 2412MHz Ant1 Emission



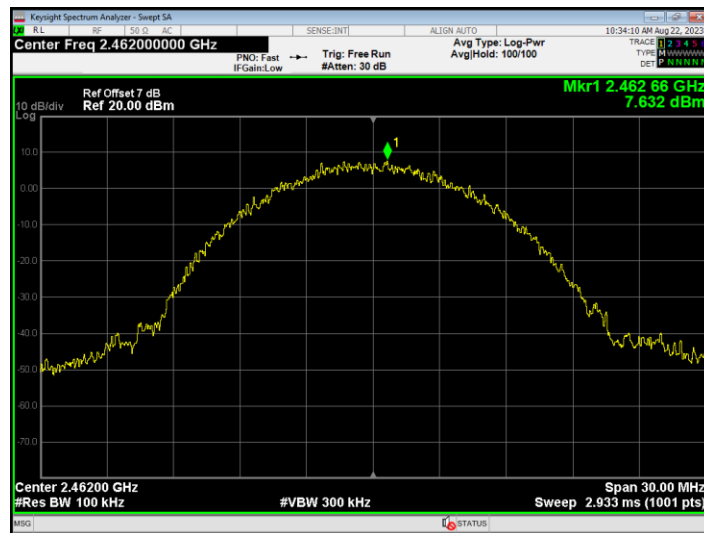
Tx. Spurious NVNT b 2437MHz Ant1 Ref



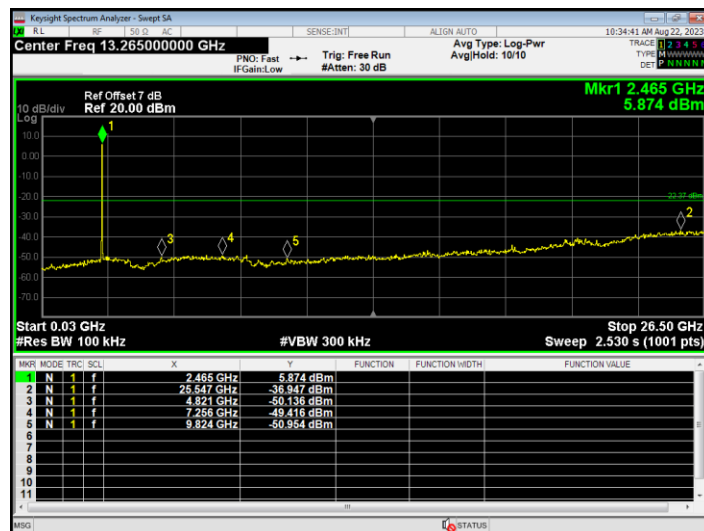
Tx. Spurious NVNT b 2437MHz Ant1 Emission



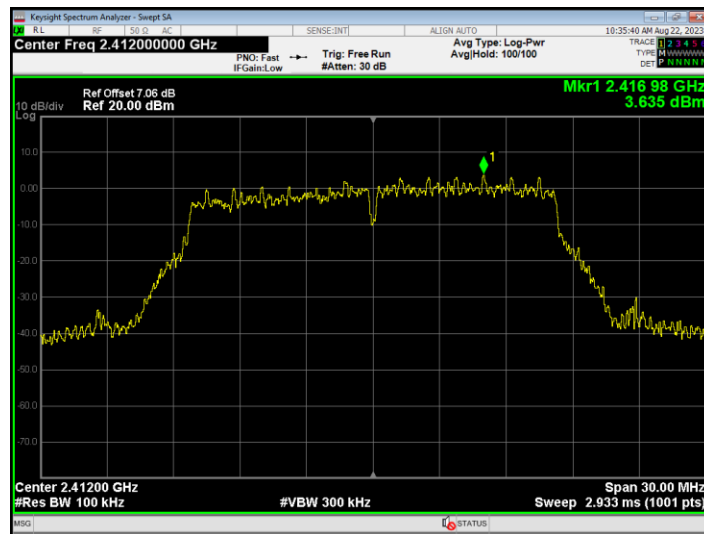
Tx. Spurious NVNT b 2462MHz Ant1 Ref



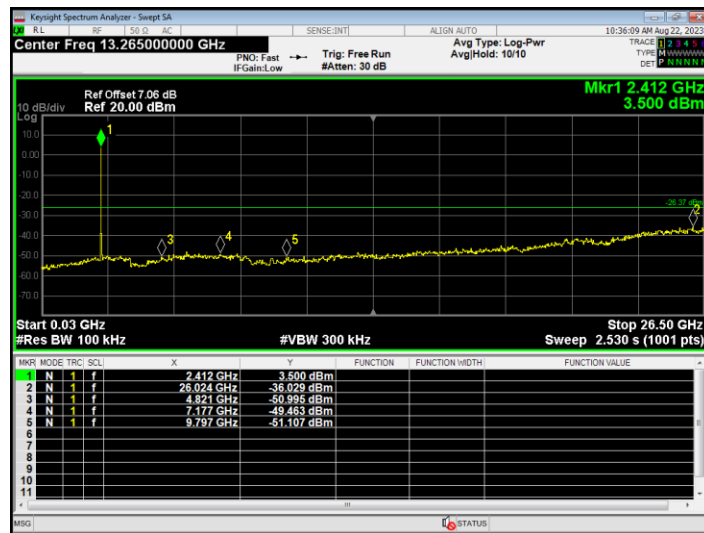
Tx. Spurious NVNT b 2462MHz Ant1 Emission



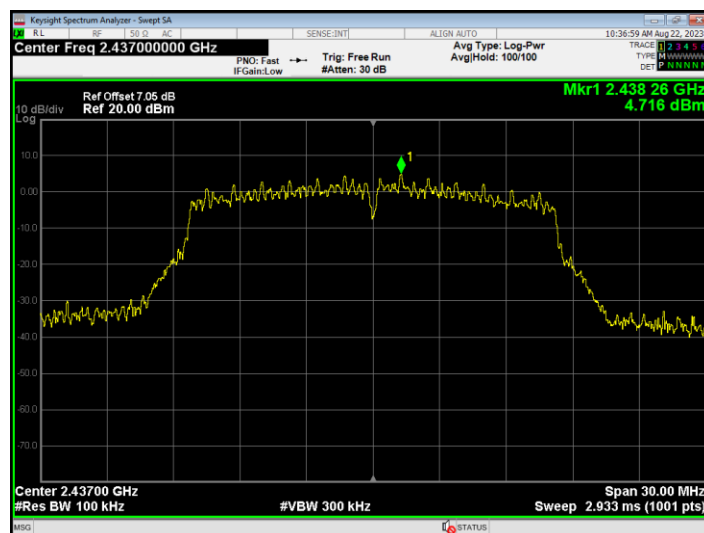
Tx. Spurious NVNT g 2412MHz Ant1 Ref



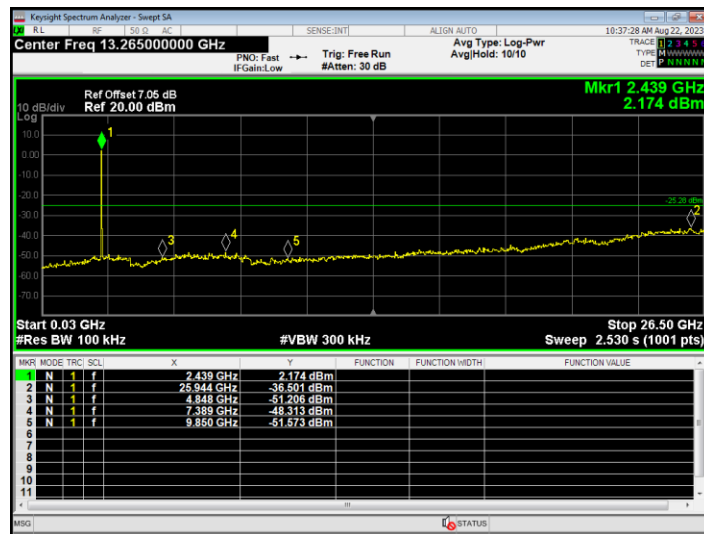
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



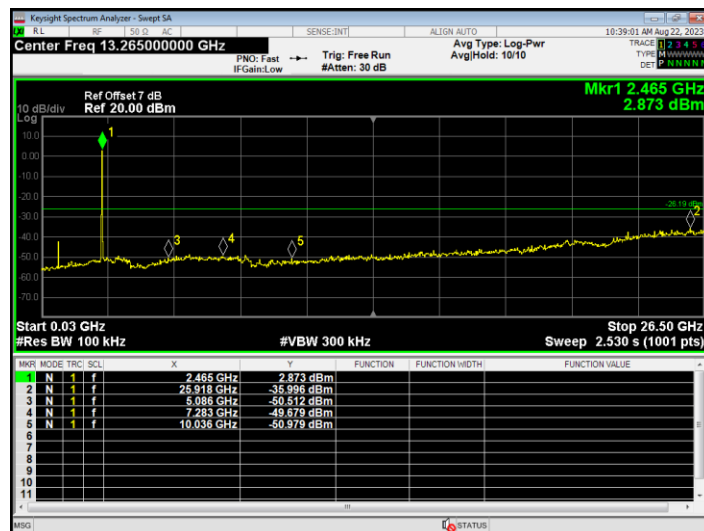
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



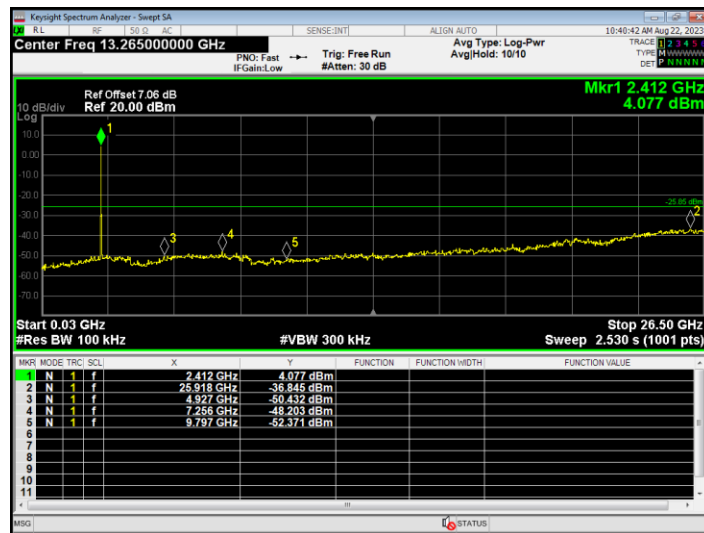
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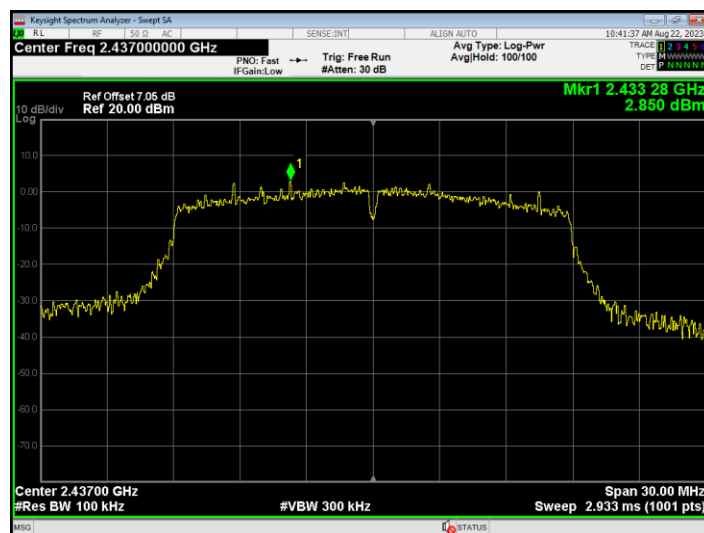
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



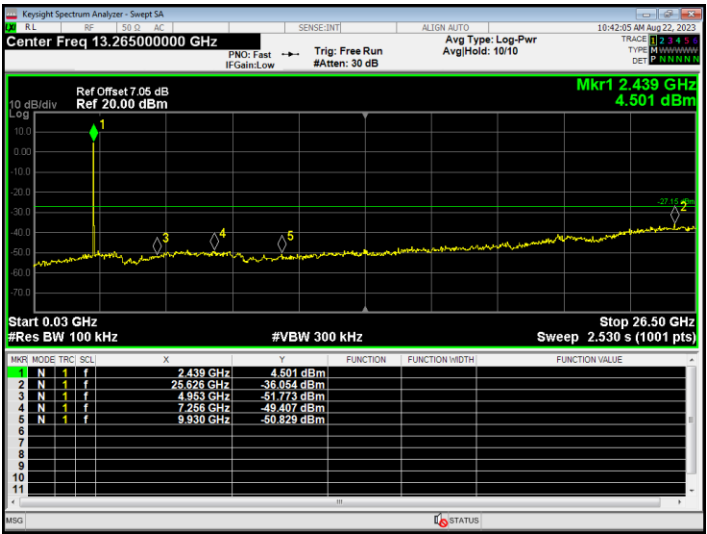
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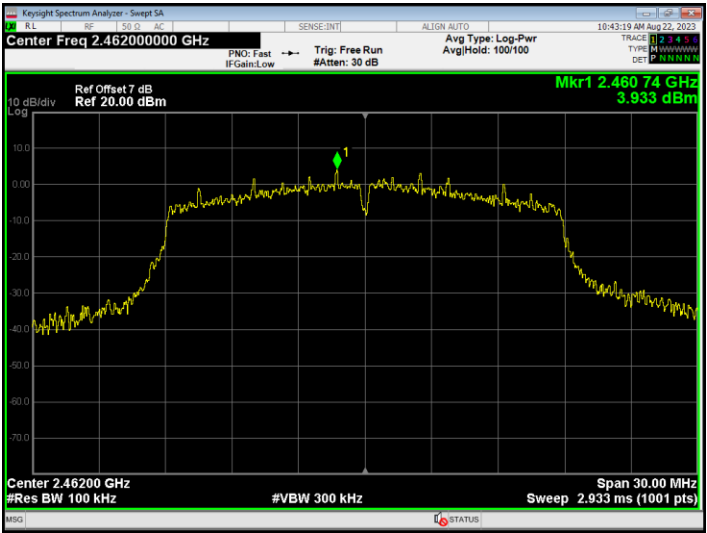
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

