

ANNEX 1

FCC ID: 2BLM9-WR1800N

Applicant: Shenzhen Maiyuan Industry

Address: Aohua Business Building, Longhua District, Shenzhen City, Guangdong Province, China

Manufacturer: Shenzhen Maiyuan Industry

Address: Aohua Business Building, Longhua District, Shenzhen City, Guangdong Province, China

EUT: Router

Trade Mark: N/A

Model Number: MY-WR1800N

Date of Receipt: Sep. 12, 2024

Test Date: Sep. 12, 2024 - Sep. 27, 2024

Date of Report: Sep. 27, 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 C 15.247
ANSI C63.10:2013

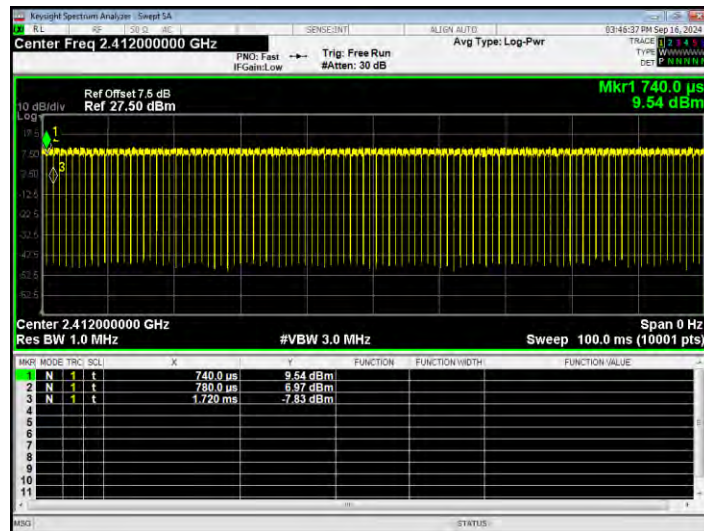
Test Result: Pass

Duty Cycle

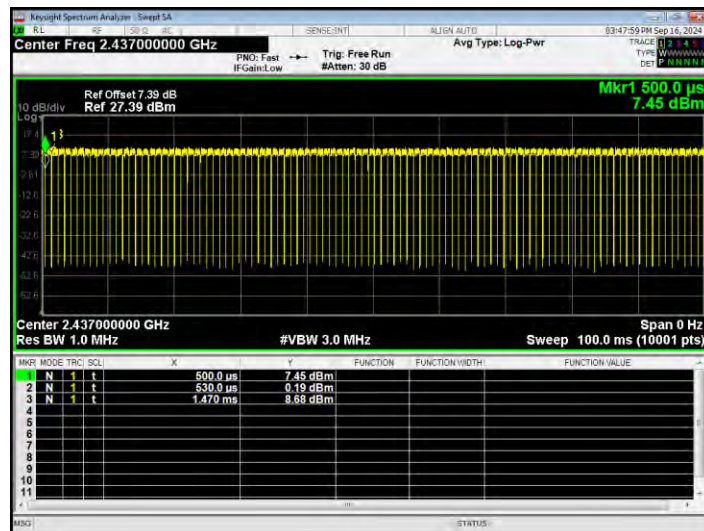
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	95.92	0.18
NVNT	b	2437	Ant1	96.91	0.14
NVNT	b	2462	Ant1	95.92	0.18
NVNT	g	2412	Ant1	77.27	1.12
NVNT	g	2437	Ant1	77.27	1.12
NVNT	g	2462	Ant1	81.82	0.87
NVNT	n20	2412	Ant1	97.01	0.13
NVNT	n20	2437	Ant1	97.01	0.13
NVNT	n20	2462	Ant1	96.3	0.16
NVNT	n40	2422	Ant1	92.86	0.32
NVNT	n40	2437	Ant1	94.2	0.26
NVNT	n40	2452	Ant1	92.86	0.32

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant2	96.91	0.14
NVNT	b	2437	Ant2	95.92	0.18
NVNT	b	2462	Ant2	95.92	0.18
NVNT	g	2412	Ant2	81.82	0.87
NVNT	g	2437	Ant2	81.82	0.87
NVNT	g	2462	Ant2	81.82	0.87
NVNT	n20	2412	Ant2	97.01	0.13
NVNT	n20	2437	Ant2	97.01	0.13
NVNT	n20	2462	Ant2	97.01	0.13
NVNT	n40	2422	Ant2	94.2	0.26
NVNT	n40	2437	Ant2	94.2	0.26
NVNT	n40	2452	Ant2	94.2	0.26

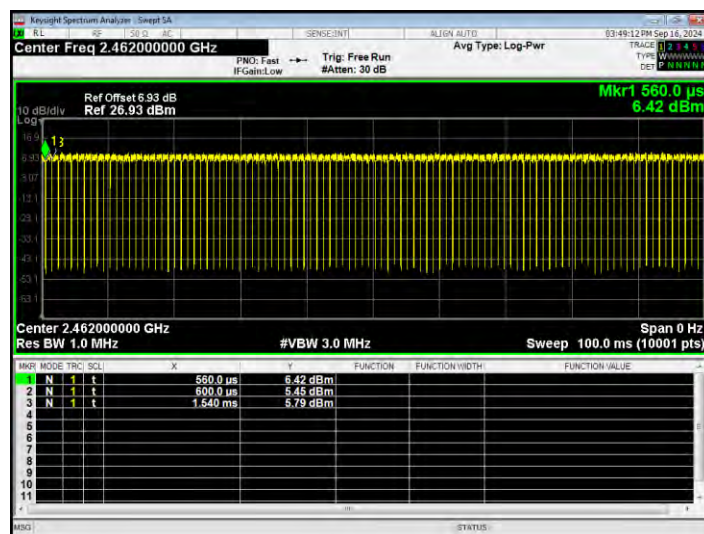
Duty Cycle NVNT b 2412MHz Ant1



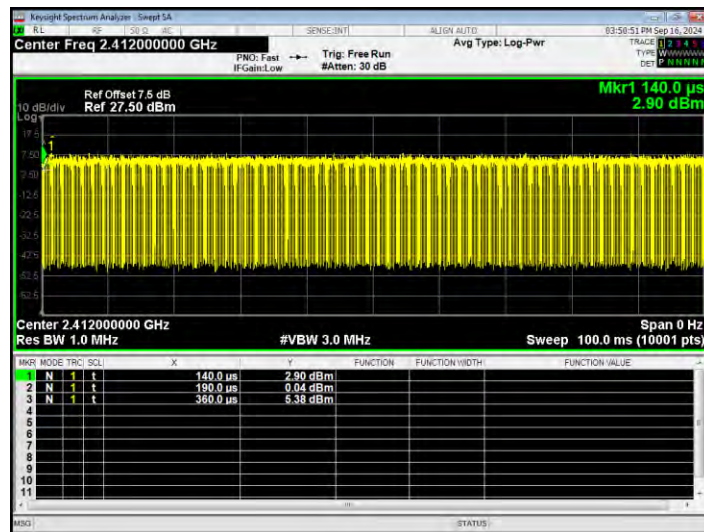
Duty Cycle NVNT b 2437MHz Ant1



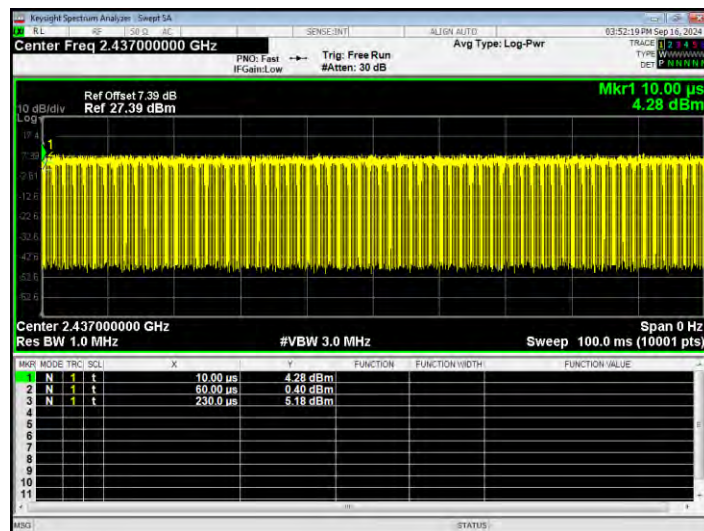
Duty Cycle NVNT b 2462MHz Ant1



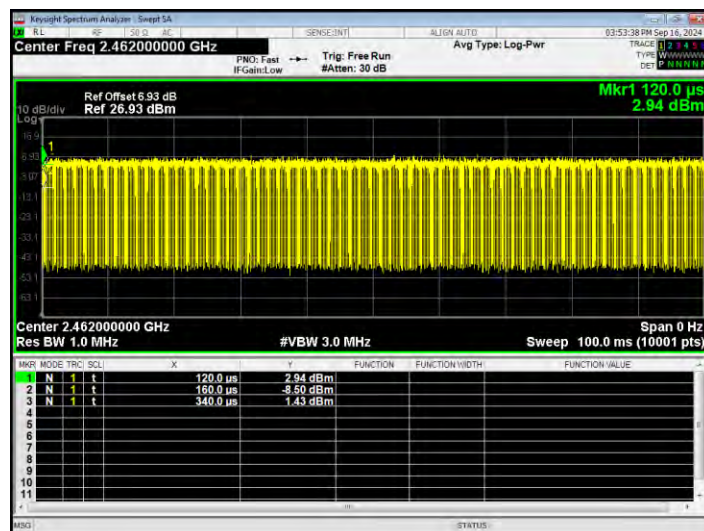
Duty Cycle NVNT g 2412MHz Ant1



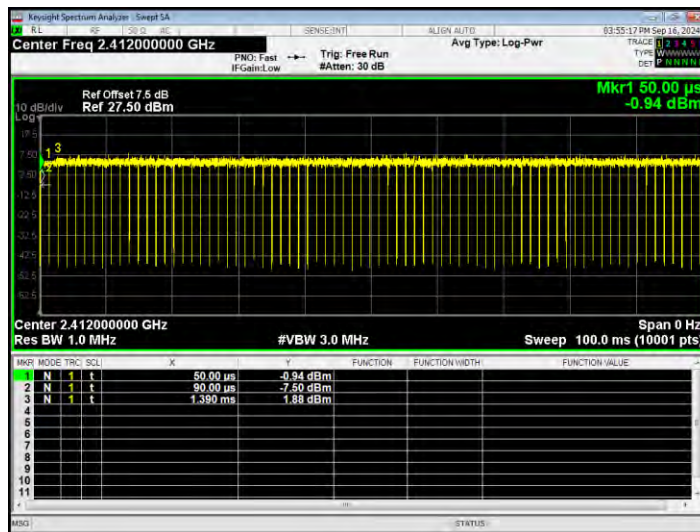
Duty Cycle NVNT g 2437MHz Ant1



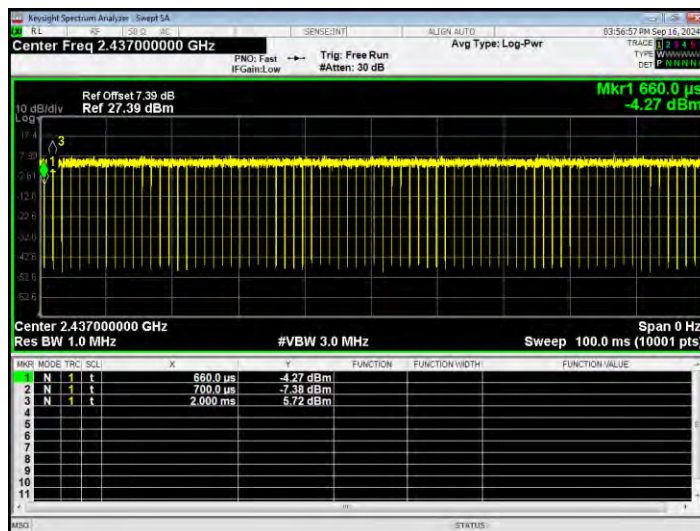
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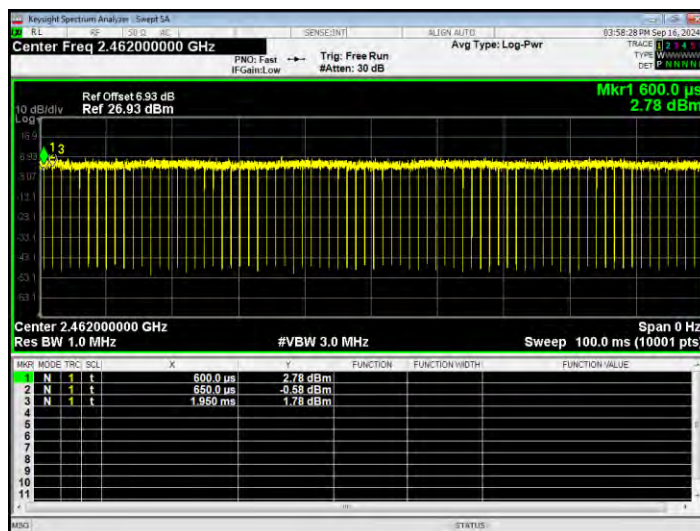
Duty Cycle NVNT n20 2412MHz Ant1



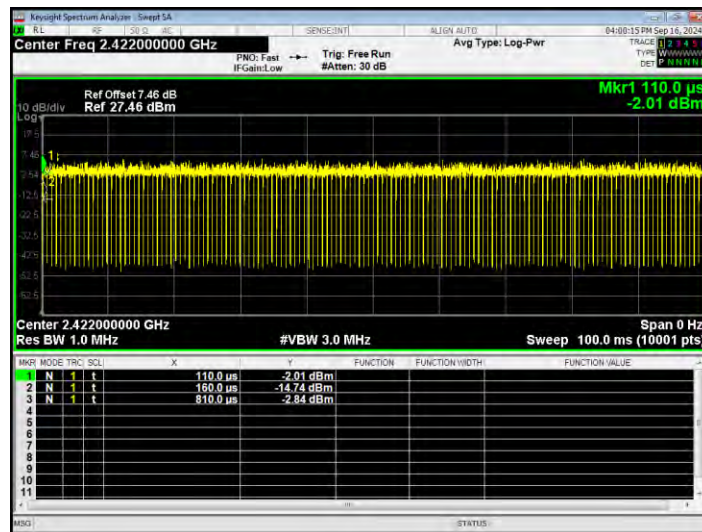
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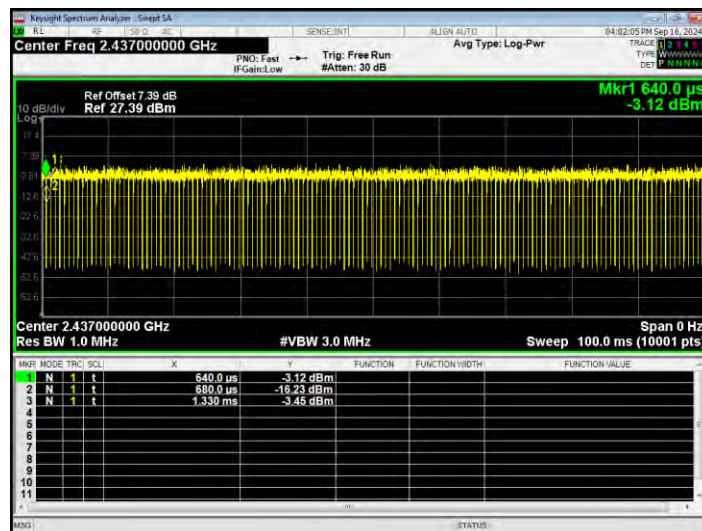
Duty Cycle NVNT n20 2462MHz Ant1



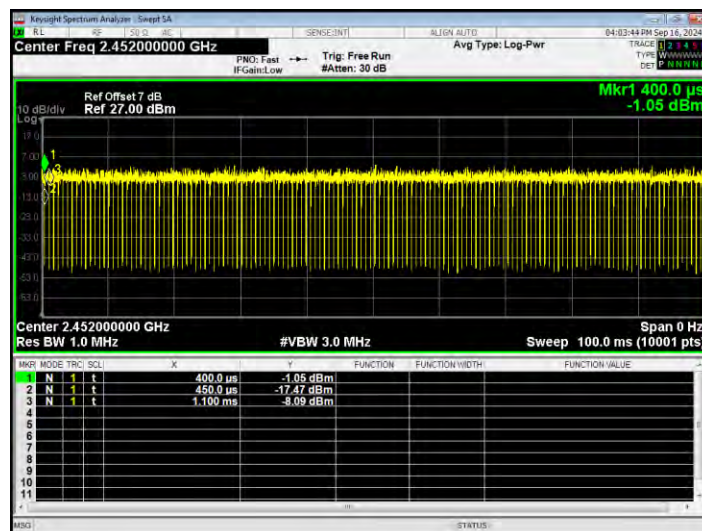
Duty Cycle NVNT n40 2422MHz Ant1



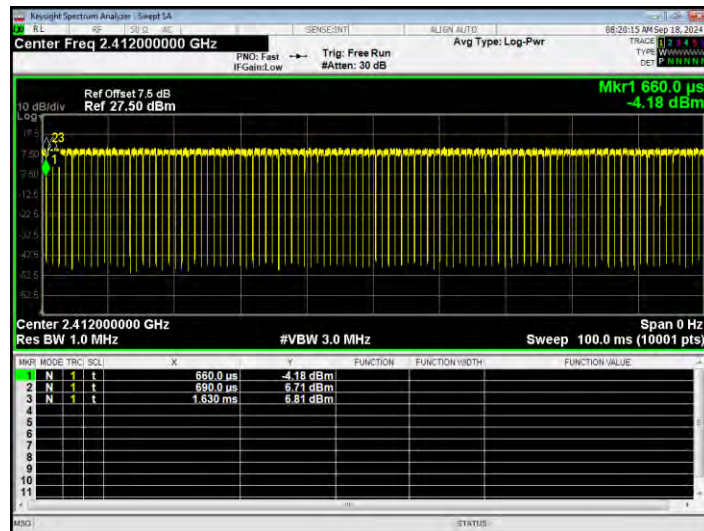
Duty Cycle NVNT n40 2437MHz Ant1



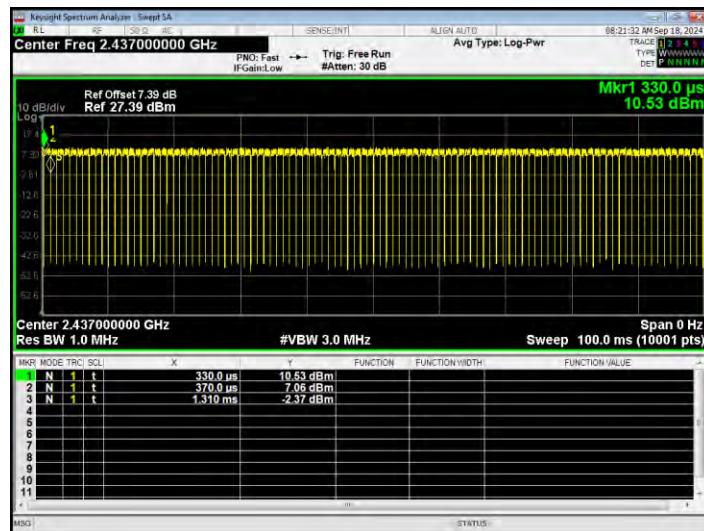
Duty Cycle NVNT n40 2452MHz Ant1



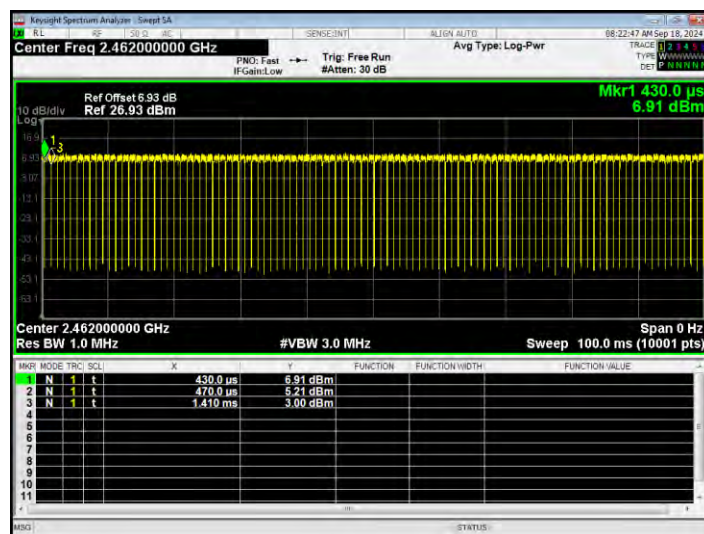
Duty Cycle NVNT b 2412MHz Ant2



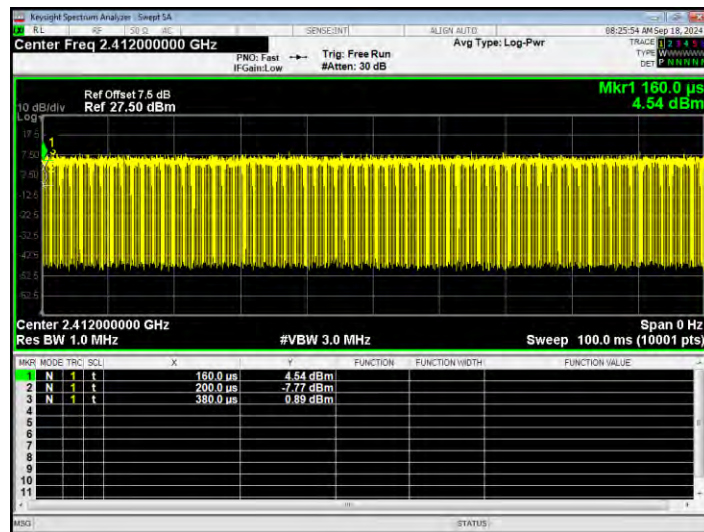
Duty Cycle NVNT b 2437MHz Ant2



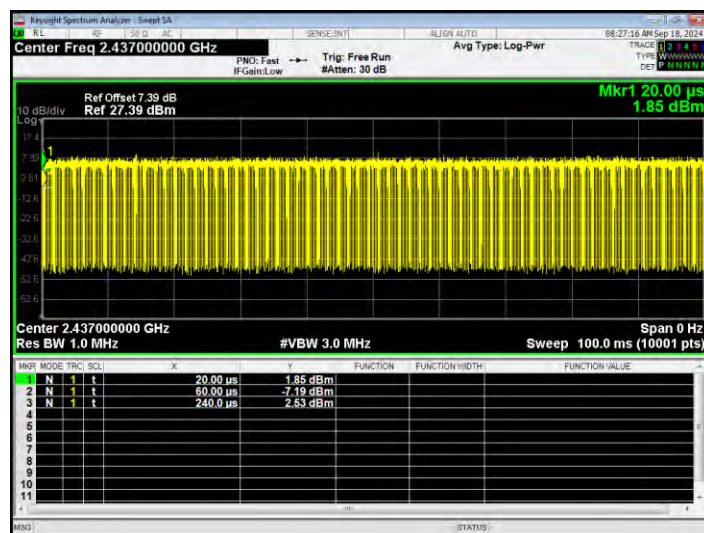
Duty Cycle NVNT b 2462MHz Ant2



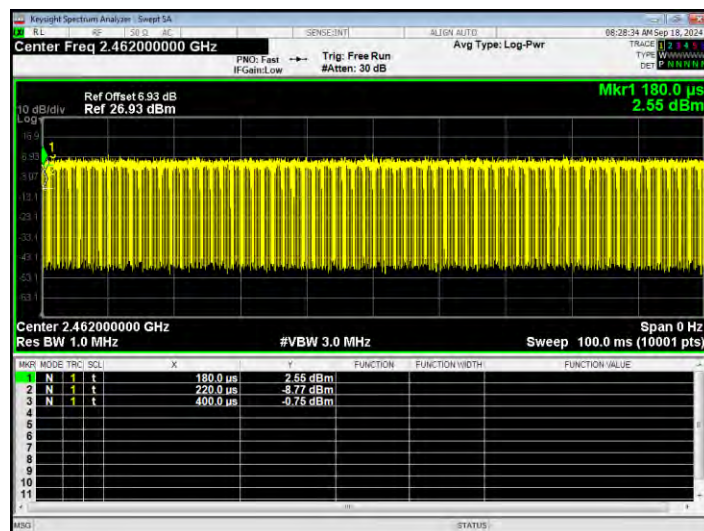
Duty Cycle NVNT g 2412MHz Ant2



Duty Cycle NVNT g 2437MHz Ant2



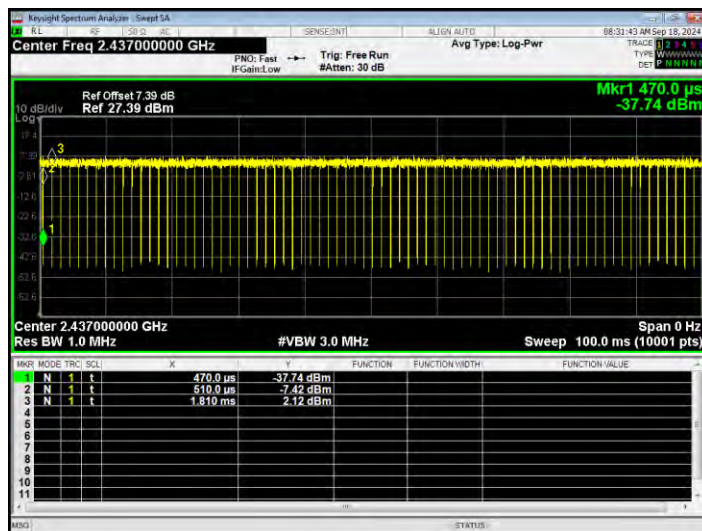
Duty Cycle NVNT g 2462MHz Ant2



Duty Cycle NVNT n20 2412MHz Ant2



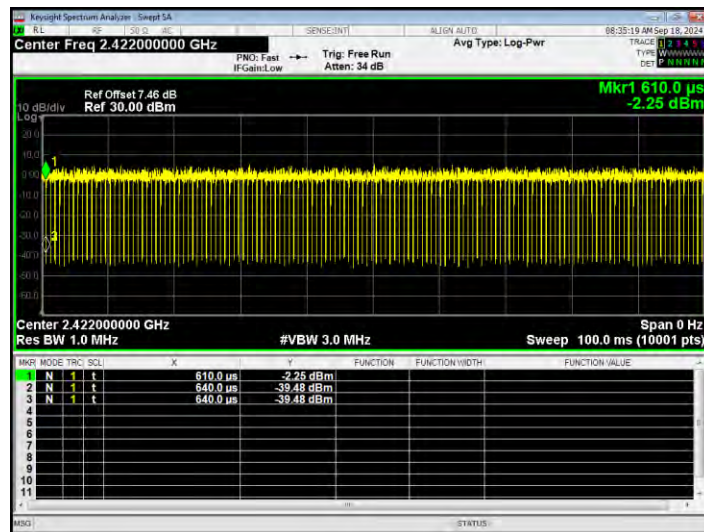
Duty Cycle NVNT n20 2437MHz Ant2



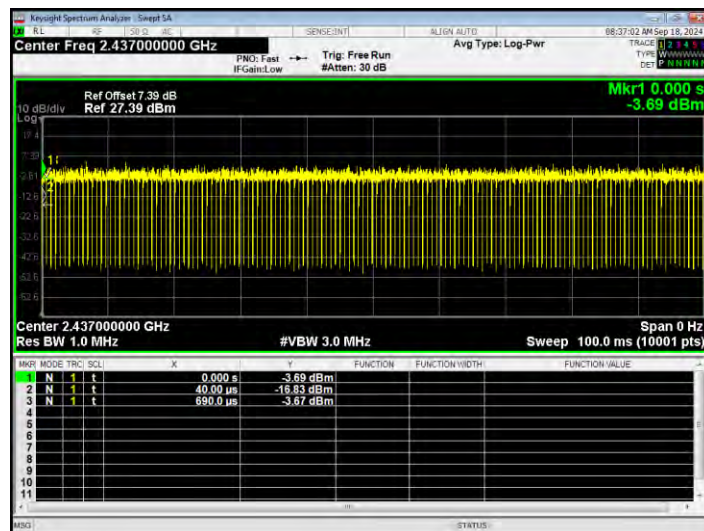
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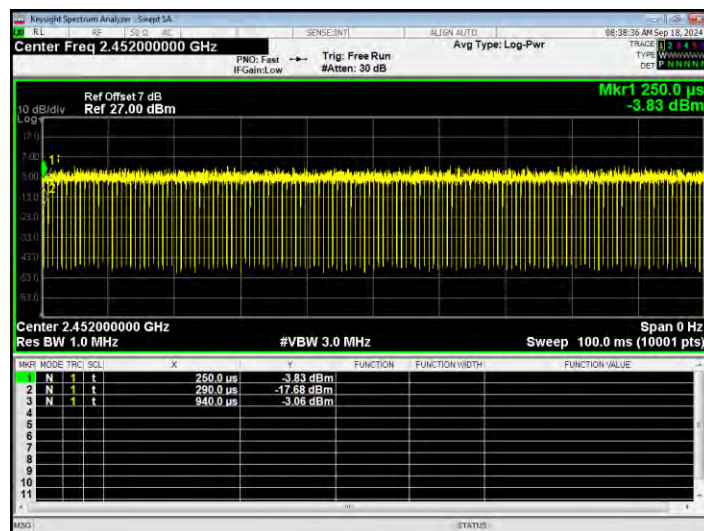
Duty Cycle NVNT n40 2422MHz Ant2



Duty Cycle NVNT n40 2437MHz Ant2



Duty Cycle NVNT n40 2452MHz Ant2



Maximum Conducted Output Power

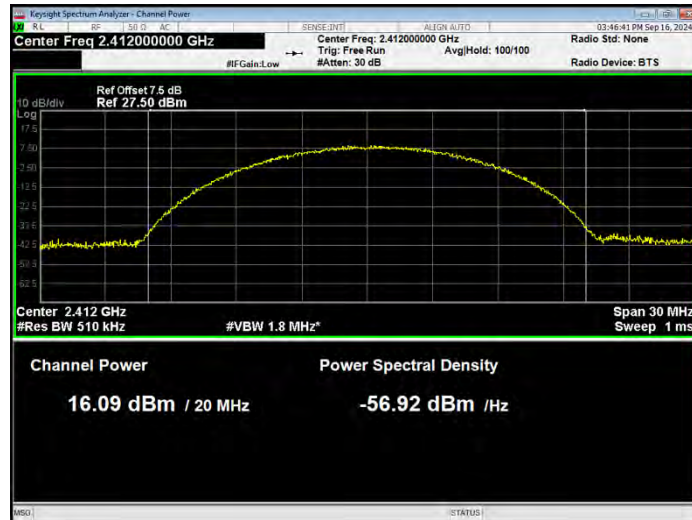
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.093	0.18	16.27	30	Pass
NVNT	b	2437	Ant1	16.283	0.14	16.42	30	Pass
NVNT	b	2462	Ant1	14.432	0.18	14.61	30	Pass
NVNT	g	2412	Ant1	15.934	1.12	17.05	30	Pass
NVNT	g	2437	Ant1	16.32	1.12	17.44	30	Pass
NVNT	g	2462	Ant1	14.363	0.87	15.23	30	Pass
NVNT	n20	2412	Ant1	15.312	0.13	15.44	30	Pass
NVNT	n20	2437	Ant1	15.566	0.13	15.70	30	Pass
NVNT	n20	2462	Ant1	13.704	0.16	13.86	30	Pass
NVNT	n40	2422	Ant1	16.032	0.32	16.35	24	Pass
NVNT	n40	2437	Ant1	15.944	0.26	16.20	30	Pass
NVNT	n40	2452	Ant1	14.937	0.32	15.26	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	15.96	0.14	16.10	30	Pass
NVNT	b	2437	Ant2	16.116	0.18	16.30	30	Pass
NVNT	b	2462	Ant2	14.146	0.18	14.33	30	Pass
NVNT	g	2412	Ant2	15.807	0.87	16.68	30	Pass
NVNT	g	2437	Ant2	16.07	0.87	16.94	30	Pass
NVNT	g	2462	Ant2	14.101	0.87	14.97	30	Pass
NVNT	n20	2412	Ant2	15.322	0.13	15.45	30	Pass
NVNT	n20	2437	Ant2	15.402	0.13	15.53	30	Pass
NVNT	n20	2462	Ant2	13.411	0.13	13.54	30	Pass
NVNT	n40	2422	Ant2	15.896	0.26	16.16	24	Pass
NVNT	n40	2437	Ant2	15.89	0.26	16.15	30	Pass
NVNT	n40	2452	Ant2	14.593	0.26	14.85	30	Pass

MIMO

Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
n20	2412	Ant1+2	18.46	30	Pass
n20	2437	Ant1+2	18.63	30	Pass
n20	2462	Ant1+2	16.71	30	Pass
n40	2422	Ant1+2	19.27	30	Pass
n40	2437	Ant1+2	19.19	30	Pass
n40	2452	Ant1+2	18.07	30	Pass

Power NVNT b 2412MHz Ant1



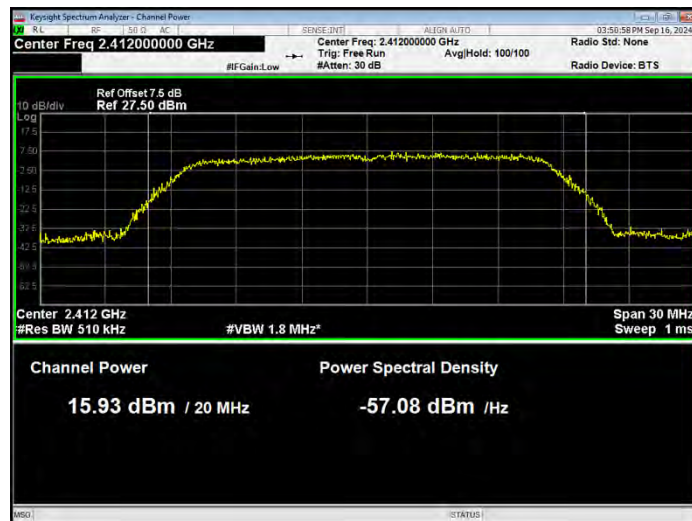
Power NVNT b 2437MHz Ant1



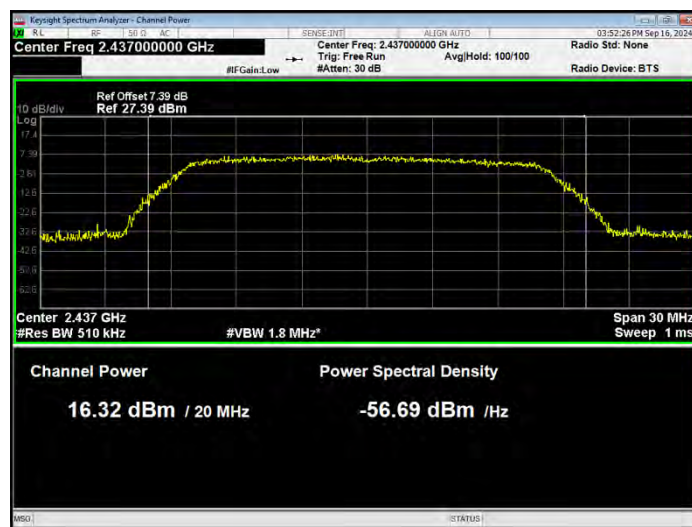
Power NVNT b 2462MHz Ant1



Power NVNT g 2412MHz Ant1



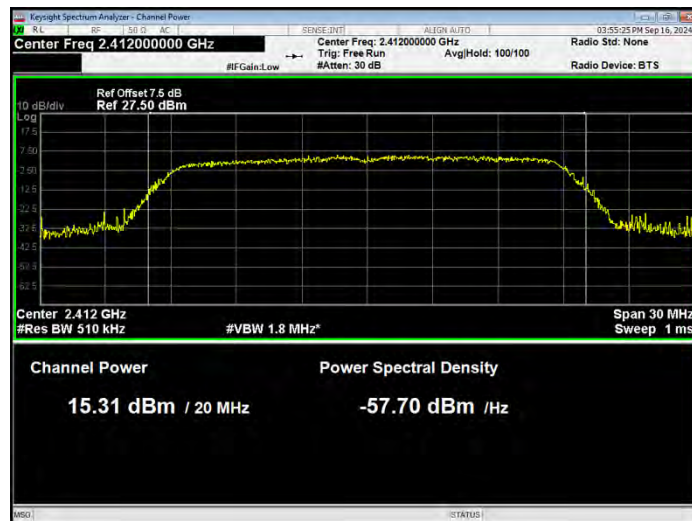
Power NVNT g 2437MHz Ant1



Power NVNT g 2462MHz Ant1



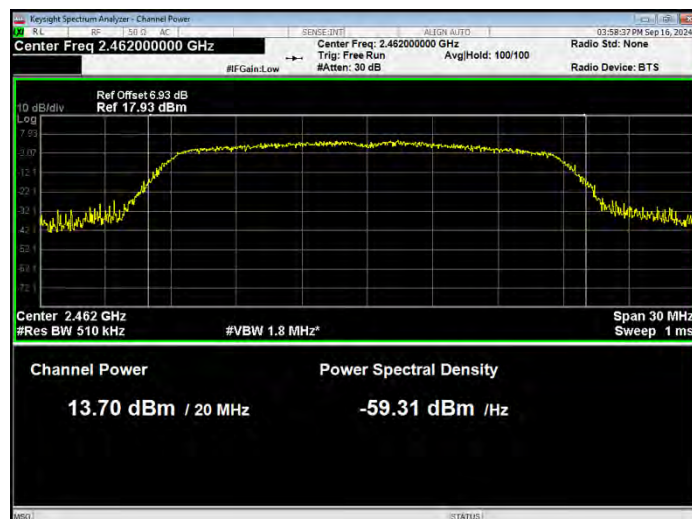
Power NVNT n20 2412MHz Ant1



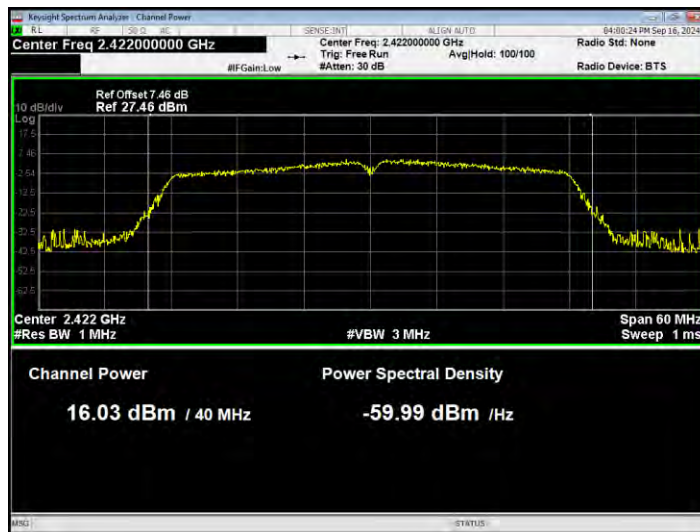
Power NVNT n20 2437MHz Ant1



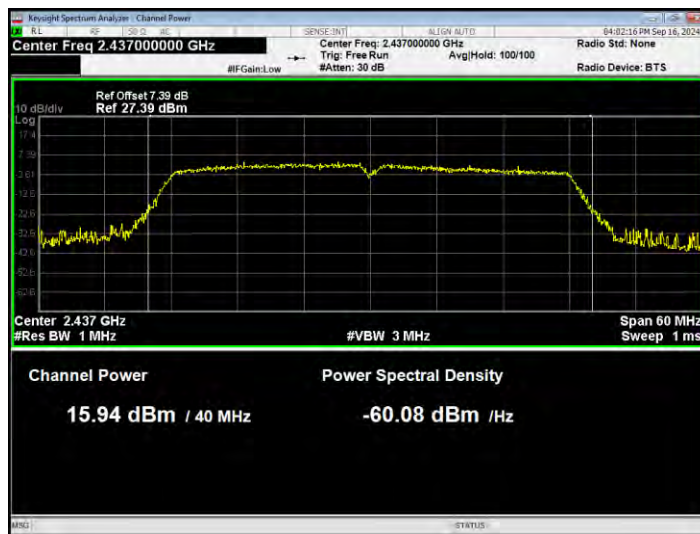
Power NVNT n20 2462MHz Ant1



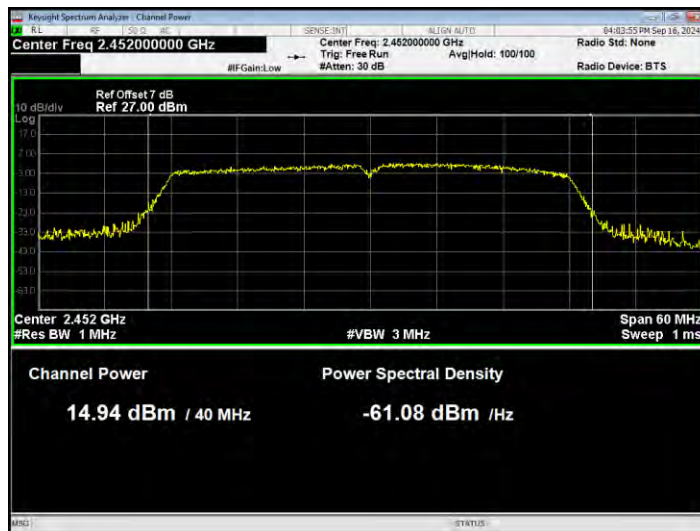
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



Power NVNT n40 2452MHz Ant1



Power NVNT b 2412MHz Ant2



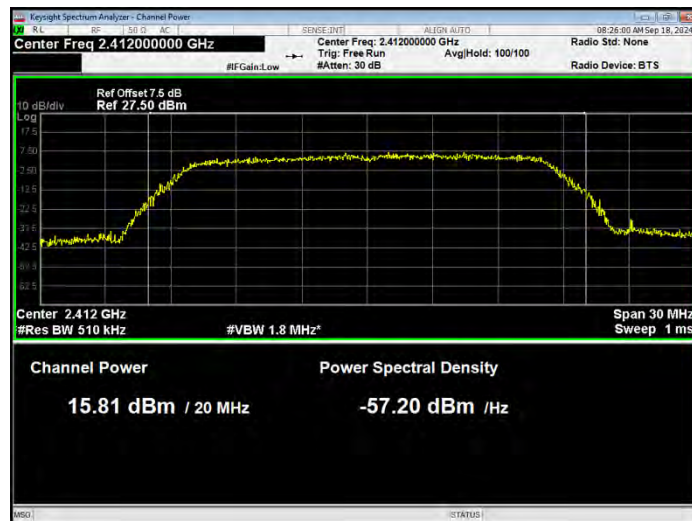
Power NVNT b 2437MHz Ant2



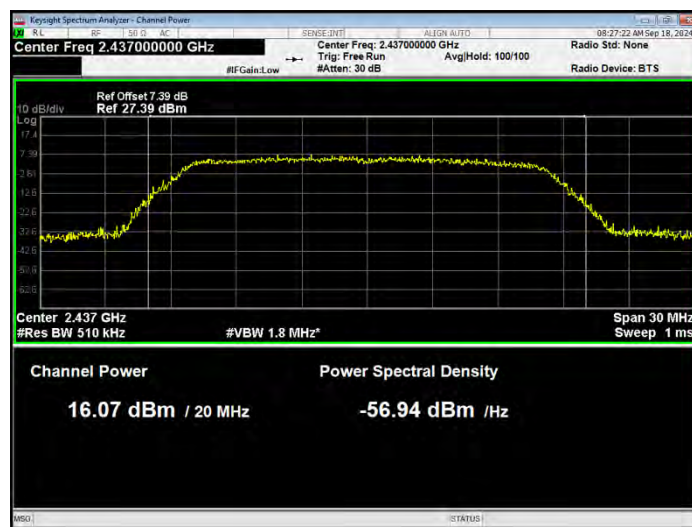
Power NVNT b 2462MHz Ant2



Power NVNT g 2412MHz Ant2



Power NVNT g 2437MHz Ant2



Power NVNT g 2462MHz Ant2



Power NVNT n20 2412MHz Ant2



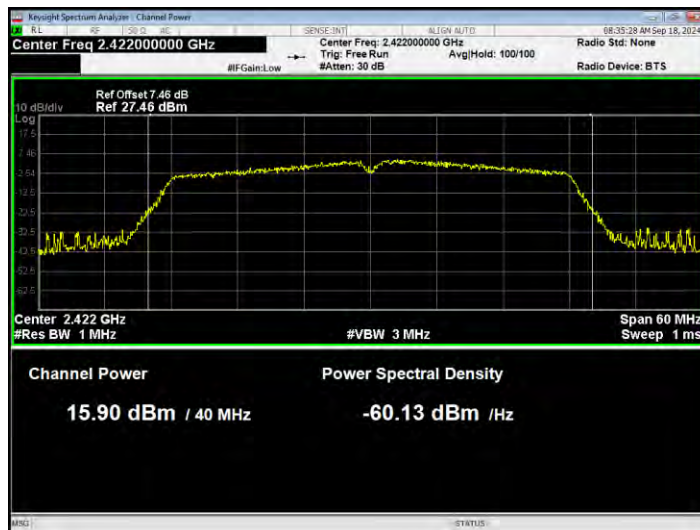
Power NVNT n20 2437MHz Ant2



Power NVNT n20 2462MHz Ant2



Power NVNT n40 2422MHz Ant2



Power NVNT n40 2437MHz Ant2



Power NVNT n40 2452MHz Ant2

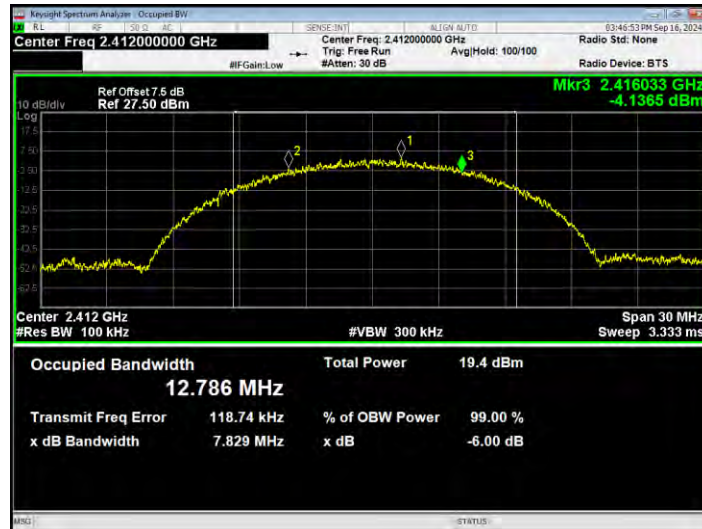


-6dB Bandwidth

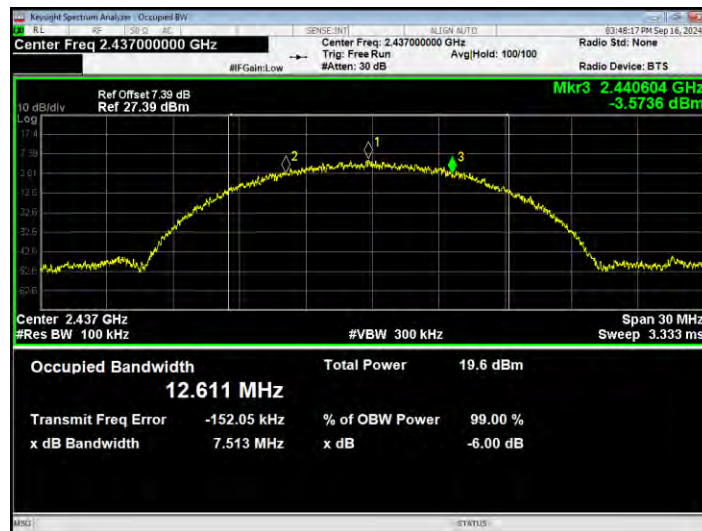
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.829	0.5	Pass
NVNT	b	2437	Ant1	7.513	0.5	Pass
NVNT	b	2462	Ant1	7.748	0.5	Pass
NVNT	g	2412	Ant1	15.775	0.5	Pass
NVNT	g	2437	Ant1	15.735	0.5	Pass
NVNT	g	2462	Ant1	15.379	0.5	Pass
NVNT	n20	2412	Ant1	16.354	0.5	Pass
NVNT	n20	2437	Ant1	15.401	0.5	Pass
NVNT	n20	2462	Ant1	13.858	0.5	Pass
NVNT	n40	2422	Ant1	31.286	0.5	Pass
NVNT	n40	2437	Ant1	33.879	0.5	Pass
NVNT	n40	2452	Ant1	33.85	0.5	Pass

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	8.533	0.5	Pass
NVNT	b	2437	Ant2	8.485	0.5	Pass
NVNT	b	2462	Ant2	6.706	0.5	Pass
NVNT	g	2412	Ant2	16.329	0.5	Pass
NVNT	g	2437	Ant2	15.737	0.5	Pass
NVNT	g	2462	Ant2	15.083	0.5	Pass
NVNT	n20	2412	Ant2	16.29	0.5	Pass
NVNT	n20	2437	Ant2	16.033	0.5	Pass
NVNT	n20	2462	Ant2	13.812	0.5	Pass
NVNT	n40	2422	Ant2	28.838	0.5	Pass
NVNT	n40	2437	Ant2	35.118	0.5	Pass
NVNT	n40	2452	Ant2	31.39	0.5	Pass

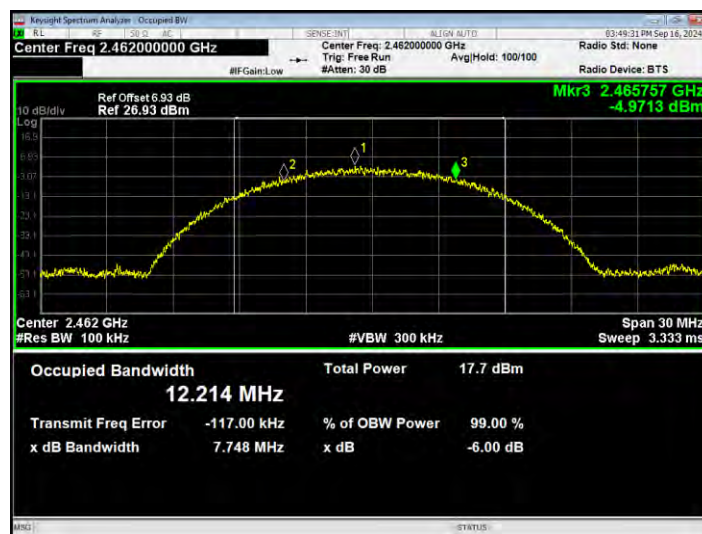
-6dB Bandwidth NVNT b 2412MHz Ant1



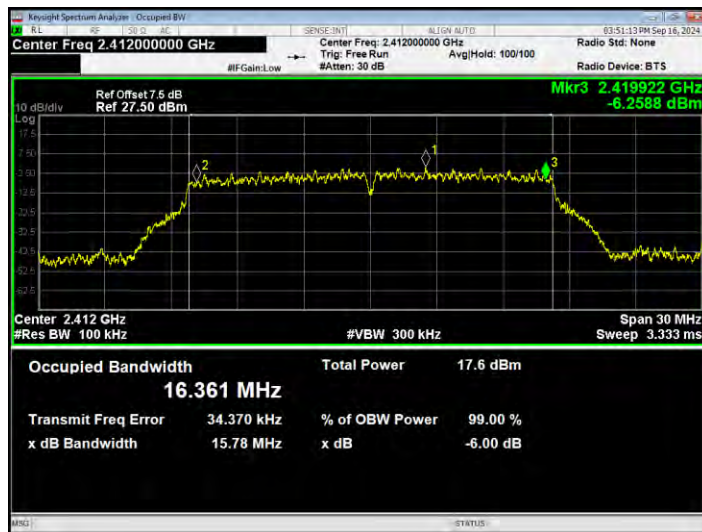
-6dB Bandwidth NVNT b 2437MHz Ant1



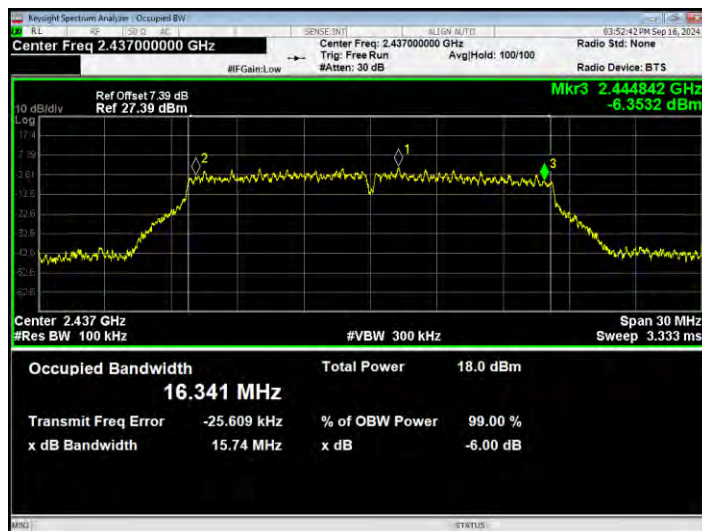
-6dB Bandwidth NVNT b 2462MHz Ant1



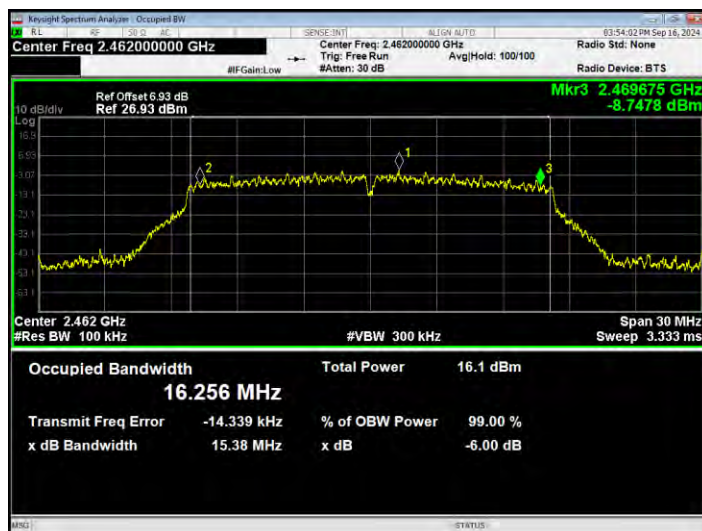
-6dB Bandwidth NVNT g 2412MHz Ant1



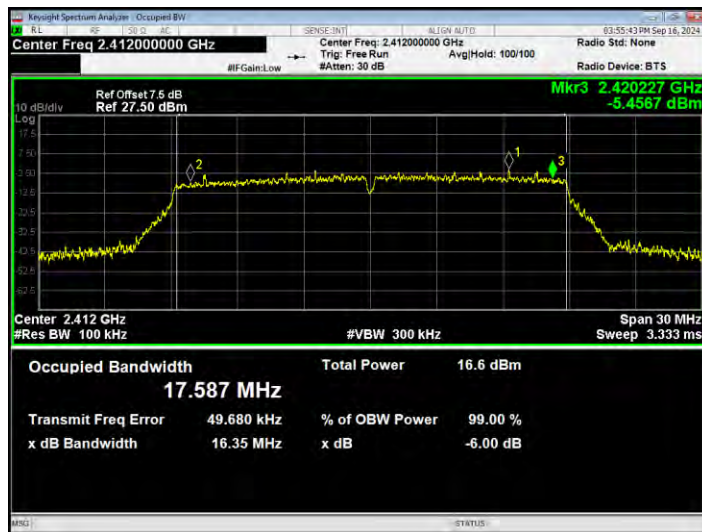
-6dB Bandwidth NVNT g 2437MHz Ant1



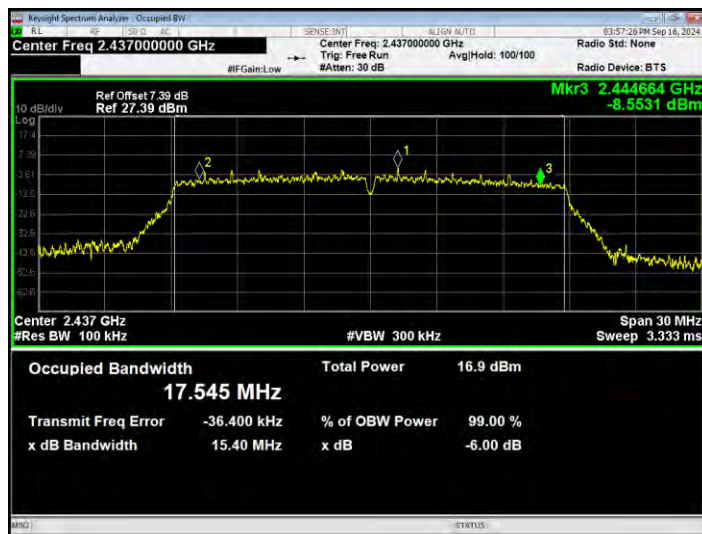
-6dB Bandwidth NVNT g 2462MHz Ant1



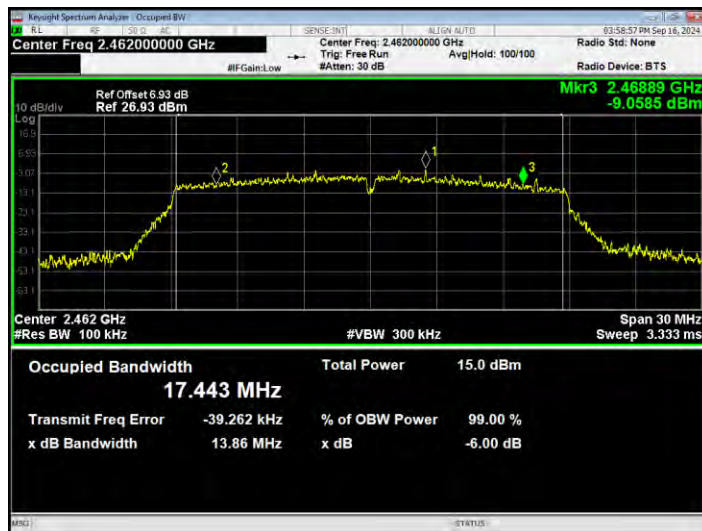
-6dB Bandwidth NVNT n20 2412MHz Ant1



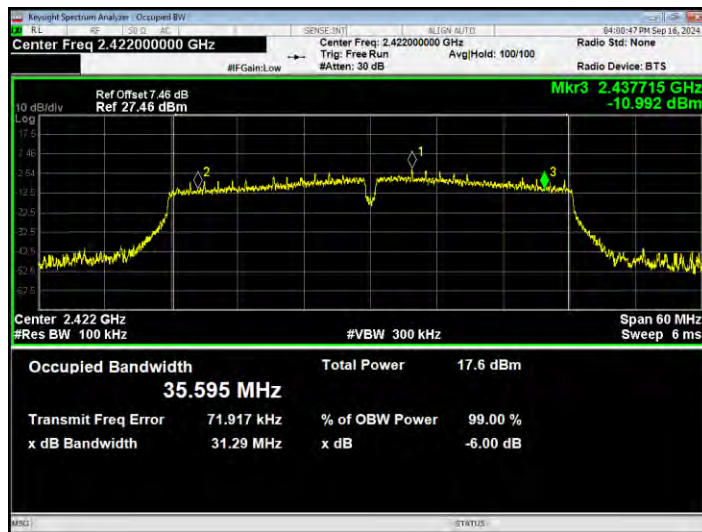
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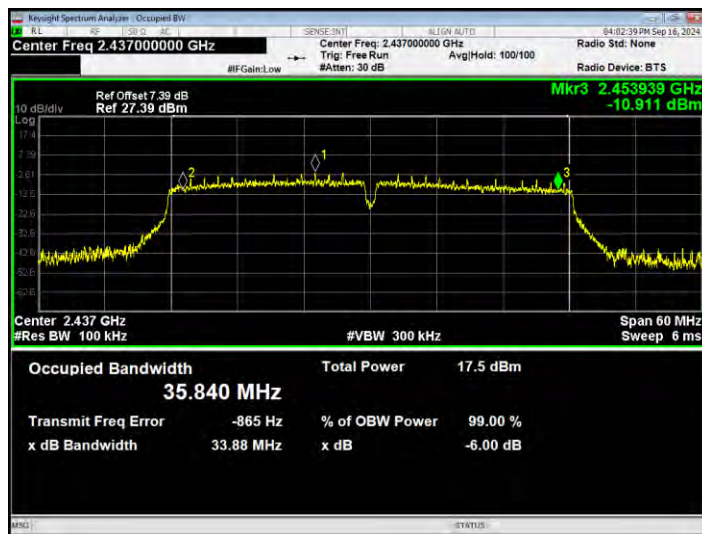
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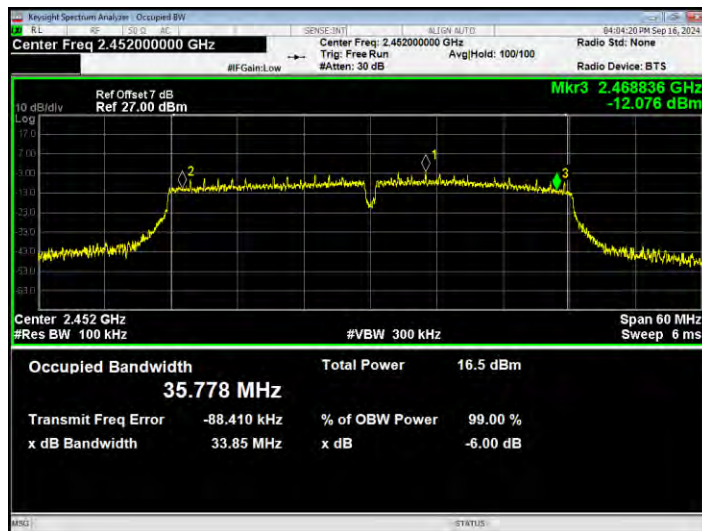
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



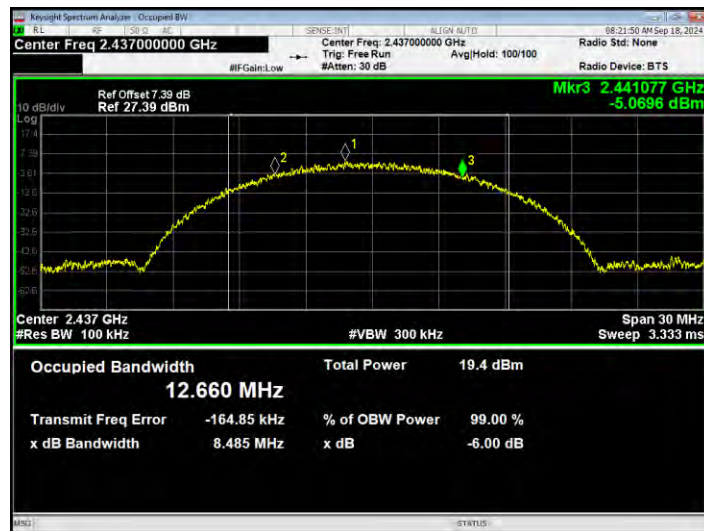
-6dB Bandwidth NVNT n40 2452MHz Ant1



-6dB Bandwidth NVNT b 2412MHz Ant2



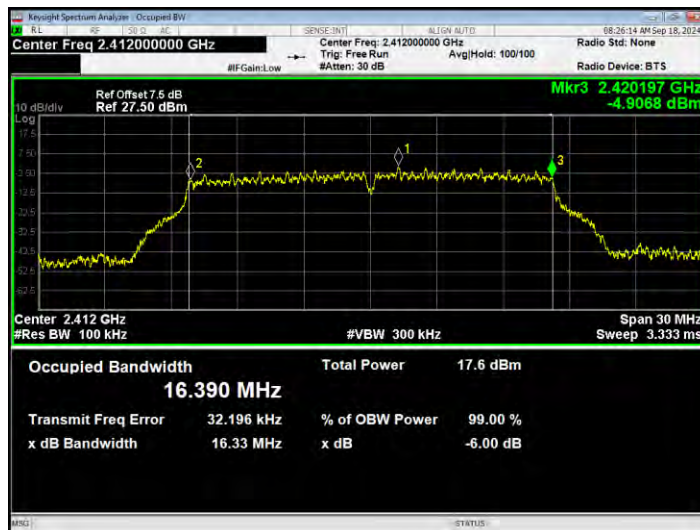
-6dB Bandwidth NVNT b 2437MHz Ant2



-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant2



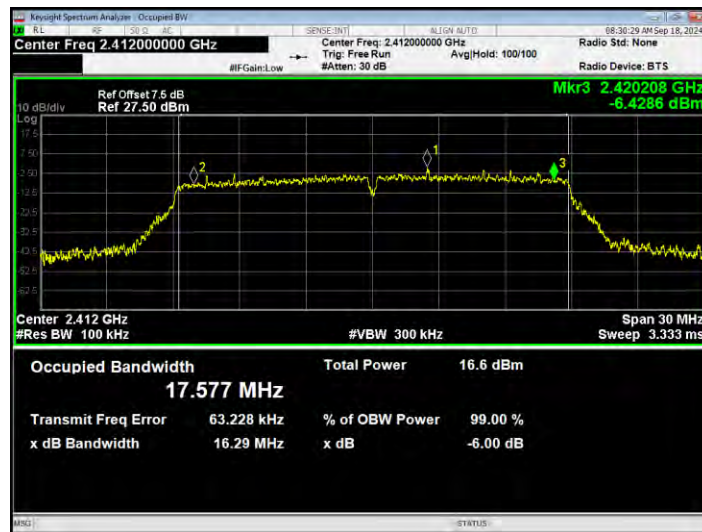
-6dB Bandwidth NVNT g 2437MHz Ant2



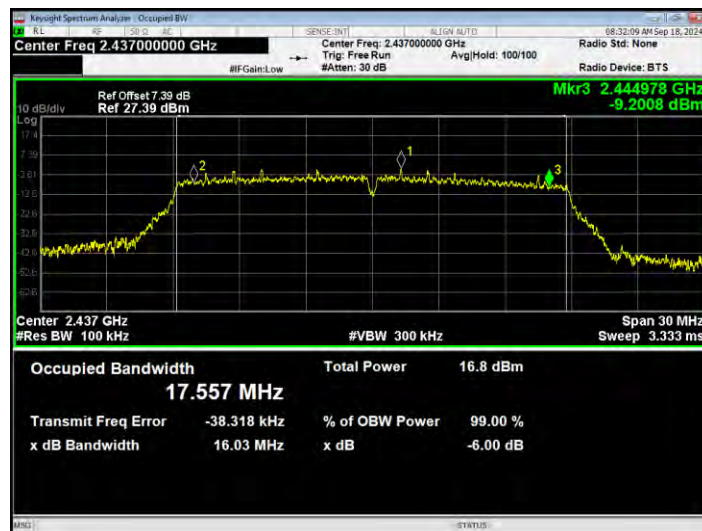
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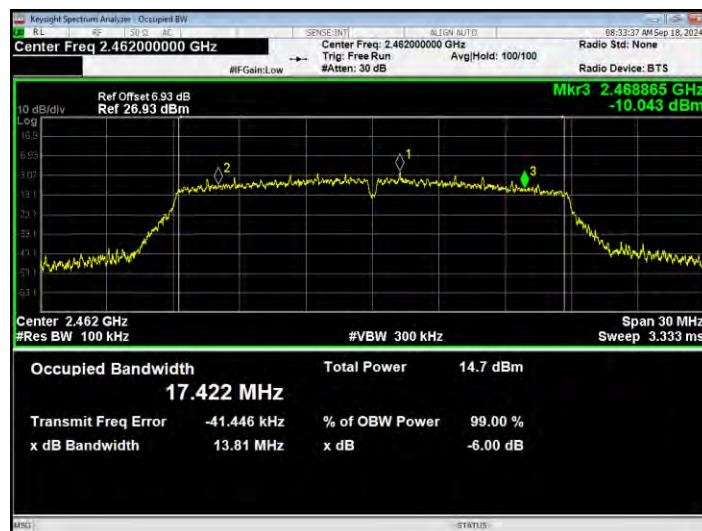
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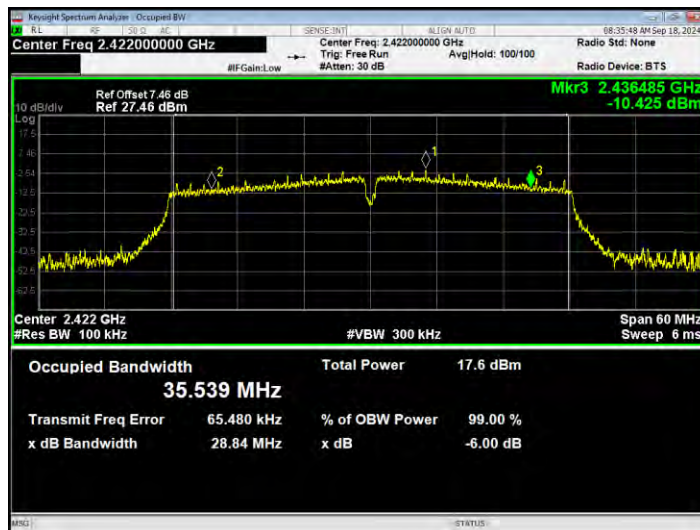
-6dB Bandwidth NVNT n20 2437MHz Ant2



-6dB Bandwidth NVNT n20 2462MHz Ant2



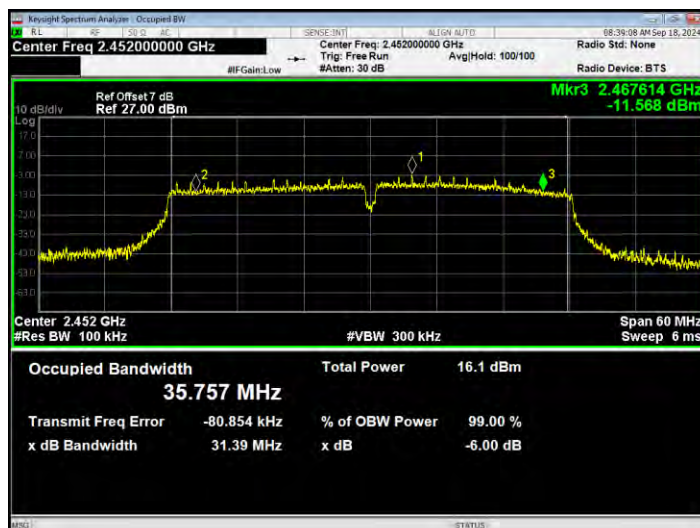
-6dB Bandwidth NVNT n40 2422MHz Ant2



-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



Occupied Channel Bandwidth

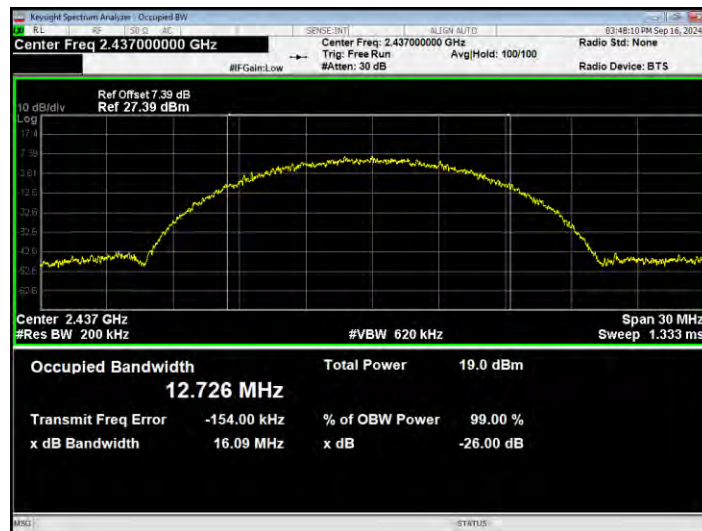
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.7442959
NVNT	b	2437	Ant1	12.72635695
NVNT	b	2462	Ant1	12.15003199
NVNT	g	2412	Ant1	16.40552503
NVNT	g	2437	Ant1	16.42216103
NVNT	g	2462	Ant1	16.26883468
NVNT	n20	2412	Ant1	17.65725621
NVNT	n20	2437	Ant1	17.58463576
NVNT	n20	2462	Ant1	17.41380088
NVNT	n40	2422	Ant1	35.69702898
NVNT	n40	2437	Ant1	35.99150772
NVNT	n40	2452	Ant1	35.89050997

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant2	12.71717393
NVNT	b	2437	Ant2	12.63797719
NVNT	b	2462	Ant2	12.16620148
NVNT	g	2412	Ant2	16.39485208
NVNT	g	2437	Ant2	16.39138517
NVNT	g	2462	Ant2	16.31887274
NVNT	n20	2412	Ant2	17.65977736
NVNT	n20	2437	Ant2	17.59045131
NVNT	n20	2462	Ant2	17.41659934
NVNT	n40	2422	Ant2	35.67582574
NVNT	n40	2437	Ant2	36.05485939
NVNT	n40	2452	Ant2	35.87620291

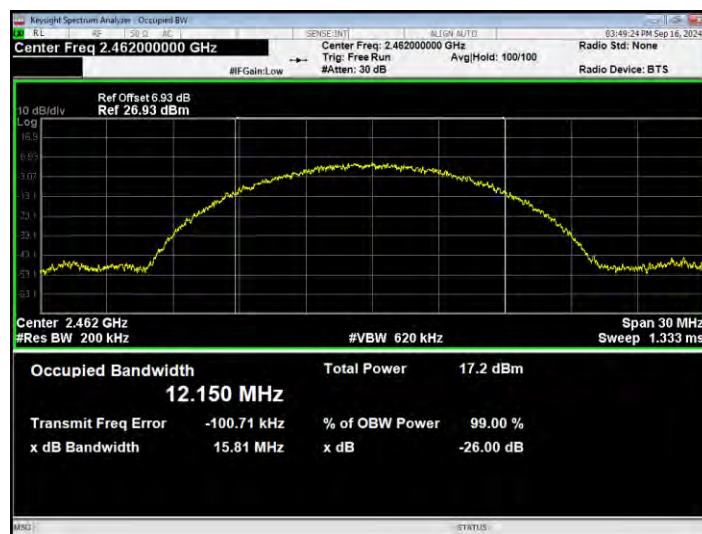
OBW NVNT b 2412MHz Ant1



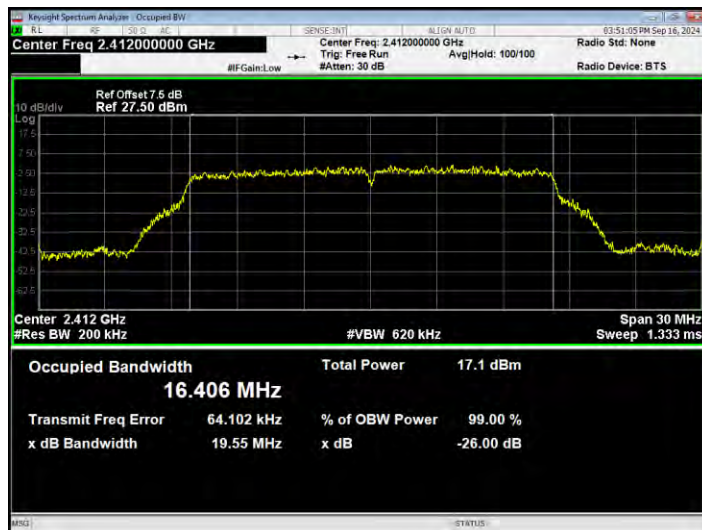
OBW NVNT b 2437MHz Ant1



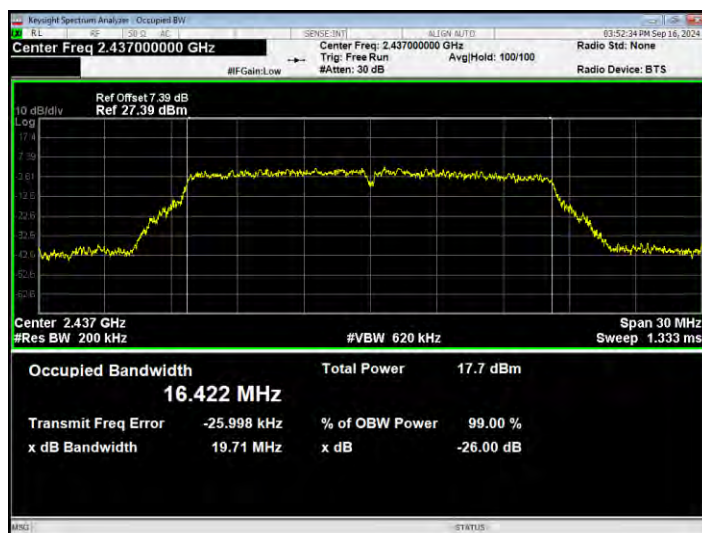
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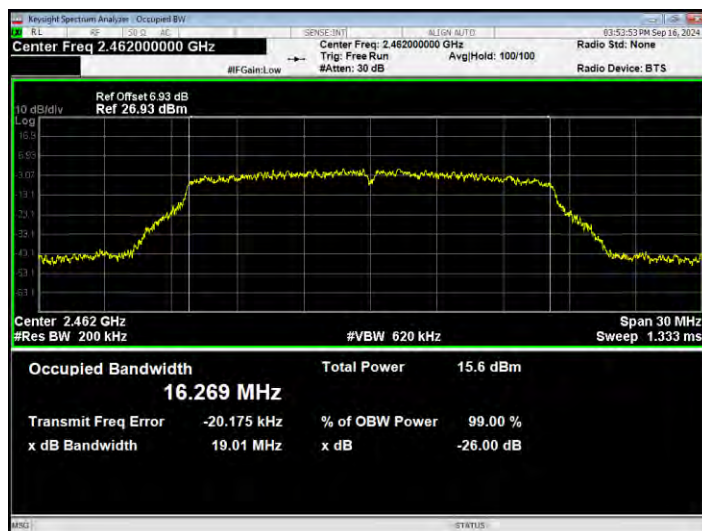
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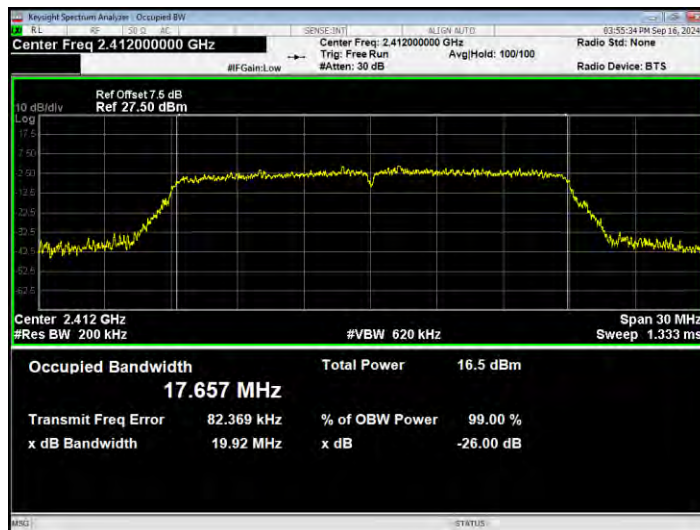
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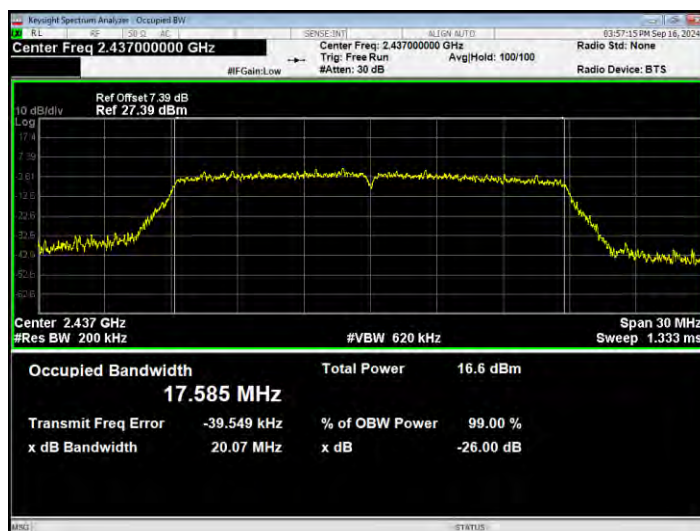
OBW NVNT g 2462MHz Ant1



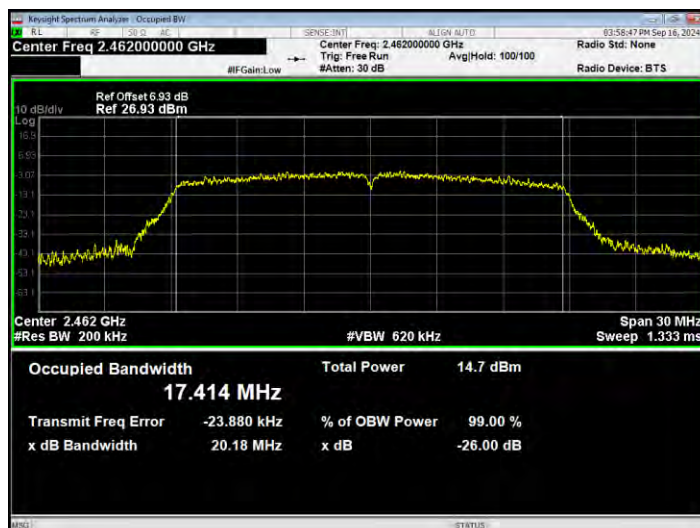
OBW NVNT n20 2412MHz Ant1



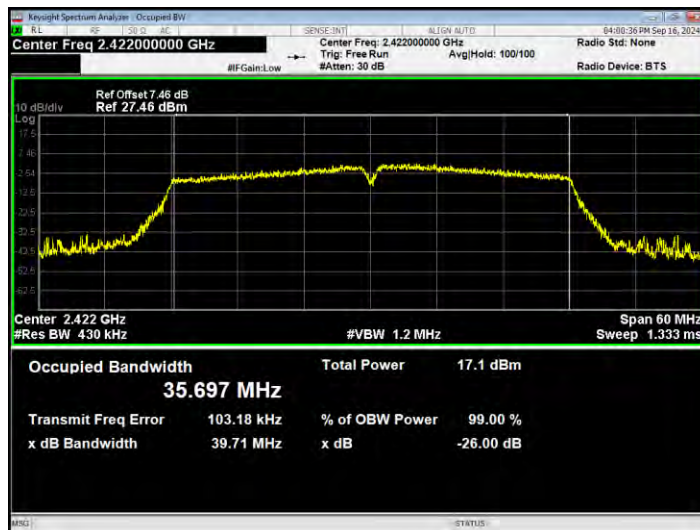
OBW NVNT n20 2437MHz Ant1



OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



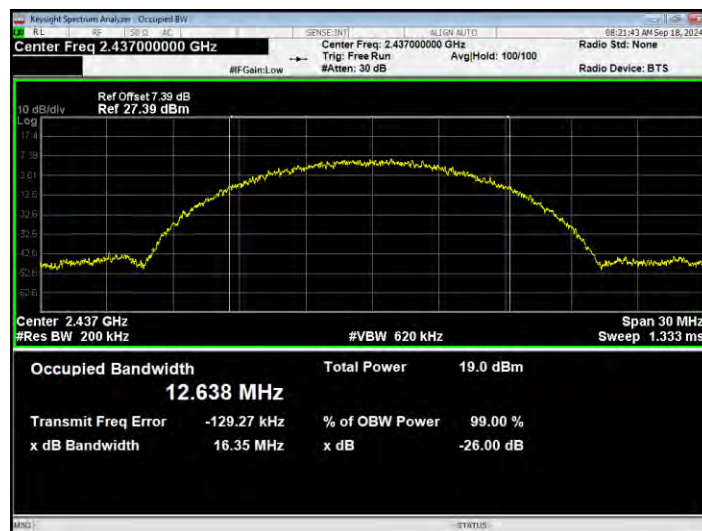
OBW NVNT n40 2452MHz Ant1



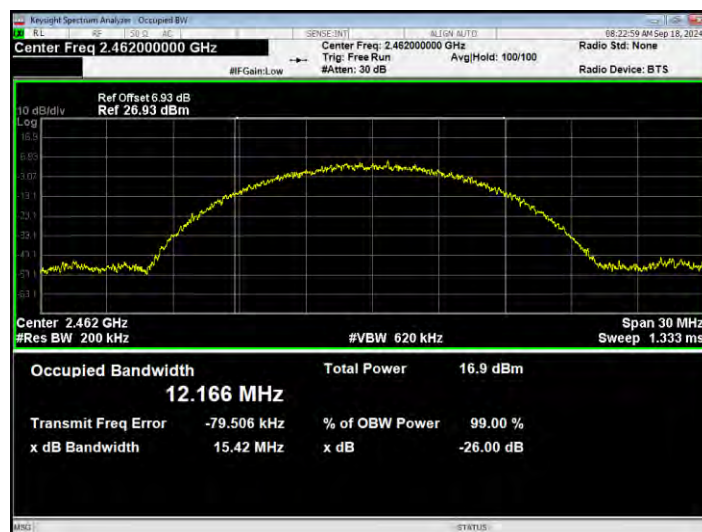
OBW NVNT b 2412MHz Ant2



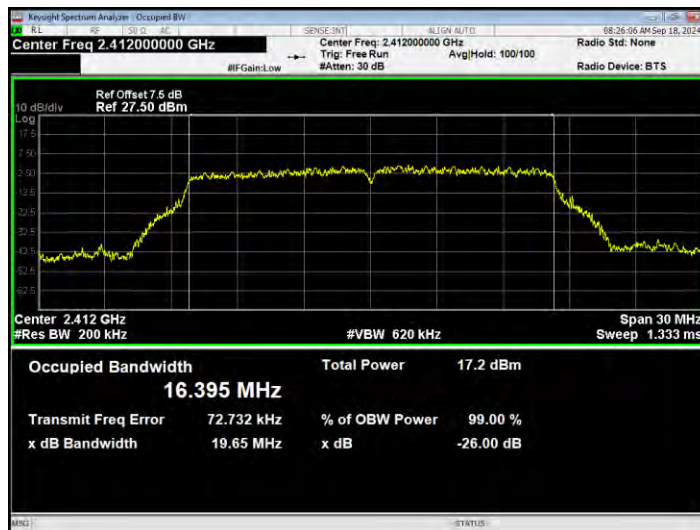
OBW NVNT b 2437MHz Ant2



OBW NVNT b 2462MHz Ant2



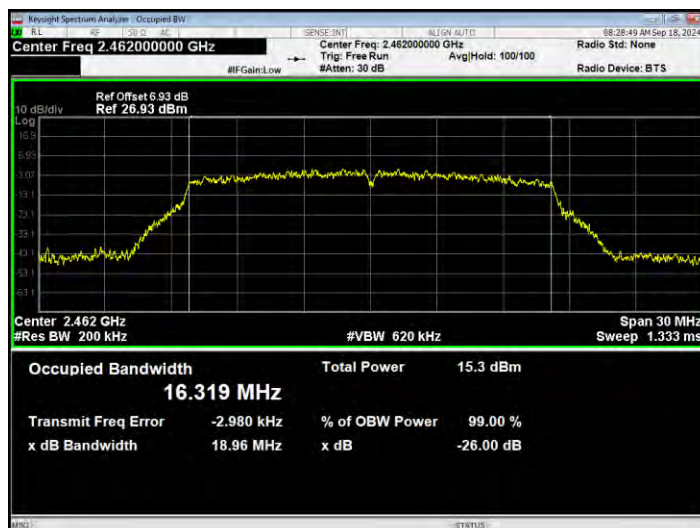
OBW NVNT g 2412MHz Ant2



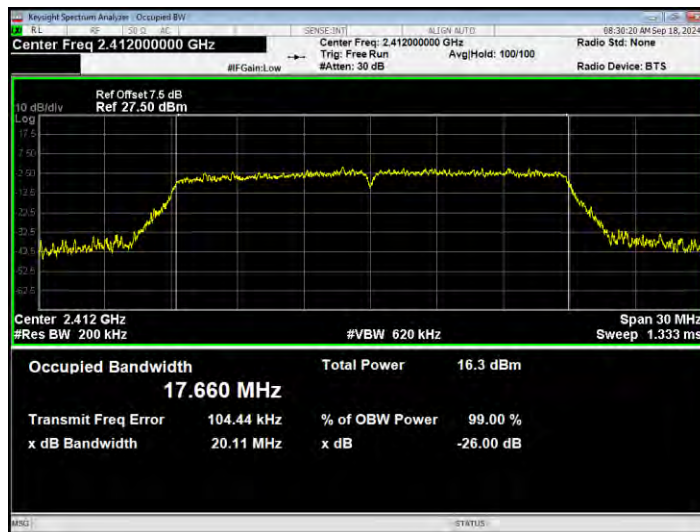
OBW NVNT g 2437MHz Ant2



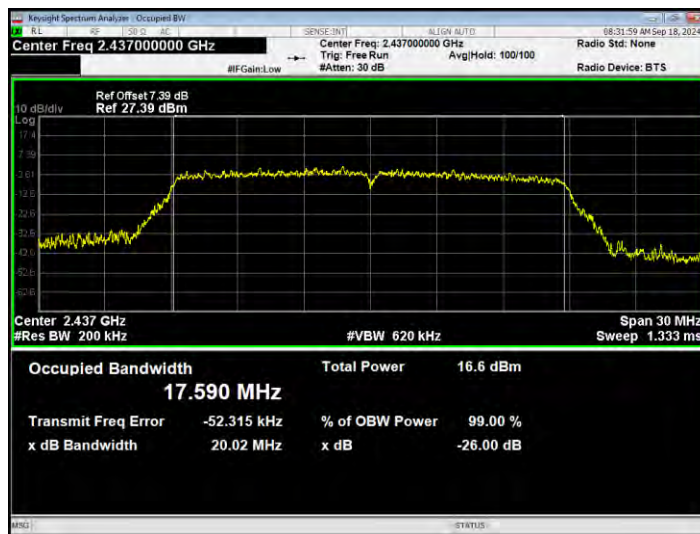
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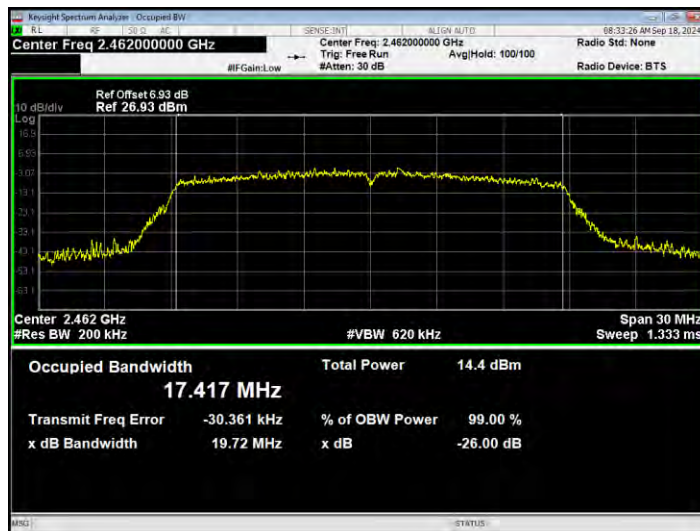
OBW NVNT n20 2412MHz Ant2



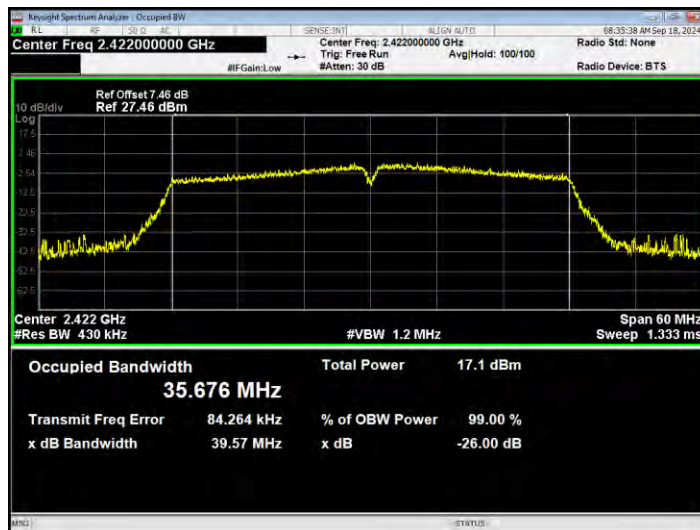
OBW NVNT n20 2437MHz Ant2



OBW NVNT n20 2462MHz Ant2



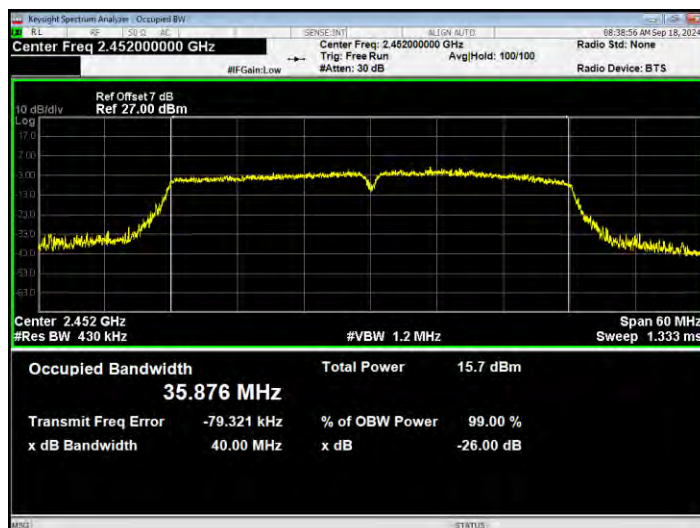
OBW NVNT n40 2422MHz Ant2



OBW NVNT n40 2437MHz Ant2



OBW NVNT n40 2452MHz Ant2



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-5.075	0.18	-4.90	8	Pass
NVNT	b	2437	Ant1	-5.528	0.14	-5.39	8	Pass
NVNT	b	2462	Ant1	-6.386	0.18	-6.21	8	Pass
NVNT	g	2412	Ant1	-9.931	1.12	-8.81	8	Pass
NVNT	g	2437	Ant1	-9.717	1.12	-8.60	8	Pass
NVNT	g	2462	Ant1	-11.275	0.87	-10.41	8	Pass
NVNT	n20	2412	Ant1	-8.274	0.13	-8.14	8	Pass
NVNT	n20	2437	Ant1	-9.712	0.13	-9.58	8	Pass
NVNT	n20	2462	Ant1	-10.865	0.16	-10.71	8	Pass
NVNT	n40	2422	Ant1	-11.906	0.32	-11.59	8	Pass
NVNT	n40	2437	Ant1	-13.017	0.26	-12.76	8	Pass
NVNT	n40	2452	Ant1	-14.188	0.32	-13.87	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	-5.97	0.14	-5.83	8	Pass
NVNT	b	2437	Ant2	-4.202	0.18	-4.02	8	Pass
NVNT	b	2462	Ant2	-6.15	0.18	-5.97	8	Pass
NVNT	g	2412	Ant2	-10.195	0.87	-9.33	8	Pass
NVNT	g	2437	Ant2	-9.999	0.87	-9.13	8	Pass
NVNT	g	2462	Ant2	-11.322	0.87	-10.45	8	Pass
NVNT	n20	2412	Ant2	-9.048	0.13	-8.92	8	Pass
NVNT	n20	2437	Ant2	-9.589	0.13	-9.46	8	Pass
NVNT	n20	2462	Ant2	-11.381	0.13	-11.25	8	Pass
NVNT	n40	2422	Ant2	-11.85	0.26	-11.59	8	Pass
NVNT	n40	2437	Ant2	-12.915	0.26	-12.66	8	Pass
NVNT	n40	2452	Ant2	-14.124	0.26	-13.86	8	Pass

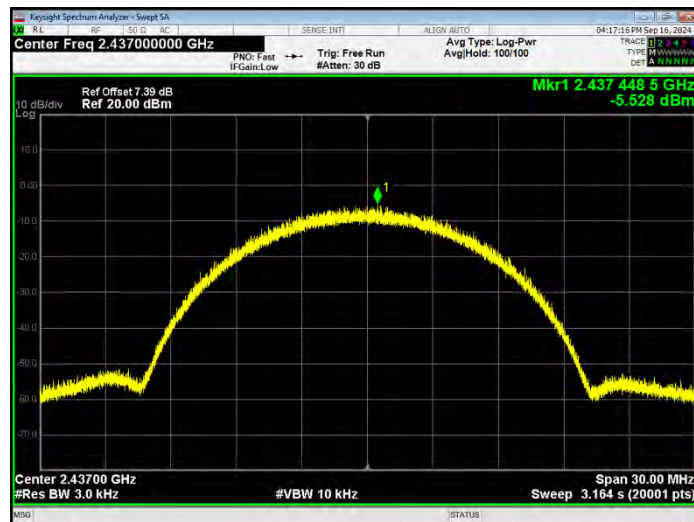
MIMO Mode

Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Limit (dBm)	Verdict
n20	2412	Ant1+2	-5.50	8	Pass
n20	2437	Ant1+2	-6.51	8	Pass
n20	2462	Ant1+2	-7.96	8	Pass
n40	2422	Ant1+2	-8.58	8	Pass
n40	2437	Ant1+2	-9.70	8	Pass
n40	2452	Ant1+2	-10.85	8	Pass

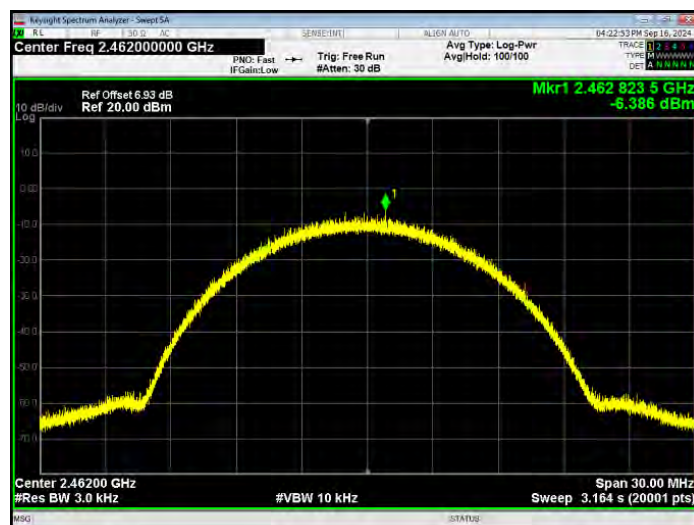
PSD NVNT b 2412MHz Ant1



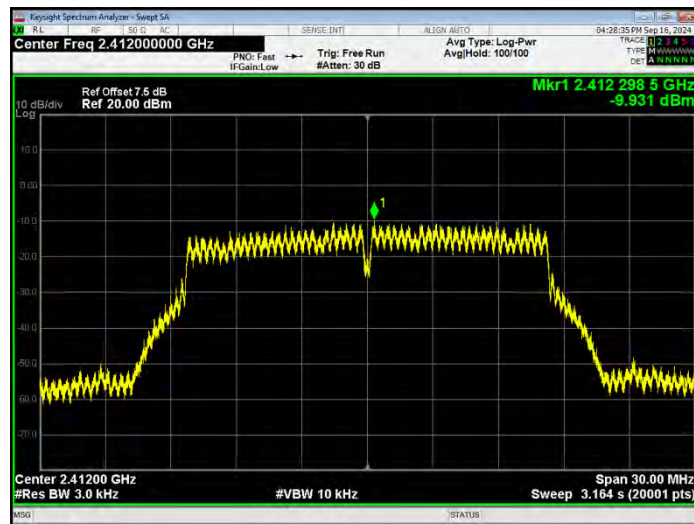
PSD NVNT b 2437MHz Ant1



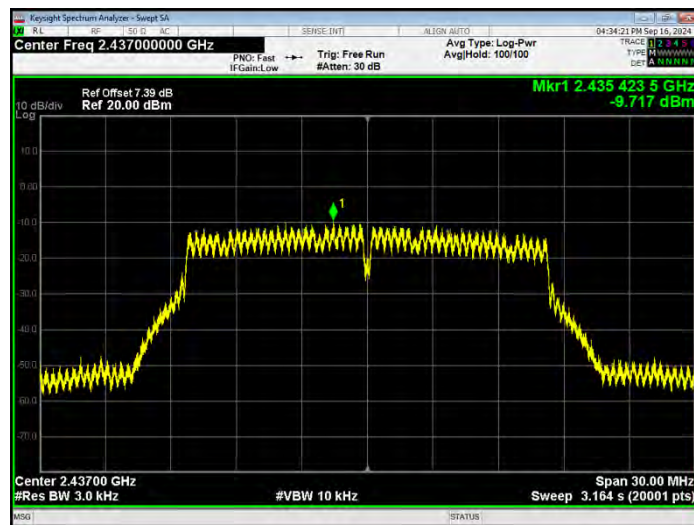
PSD NVNT b 2462MHz Ant1



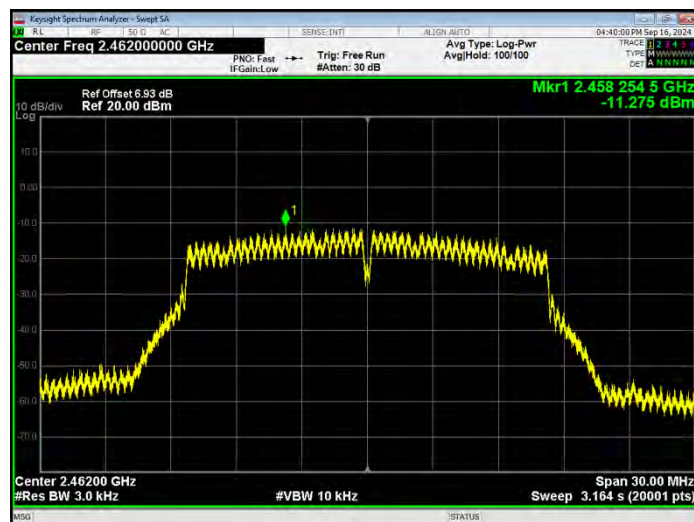
PSD NVNT g 2412MHz Ant1



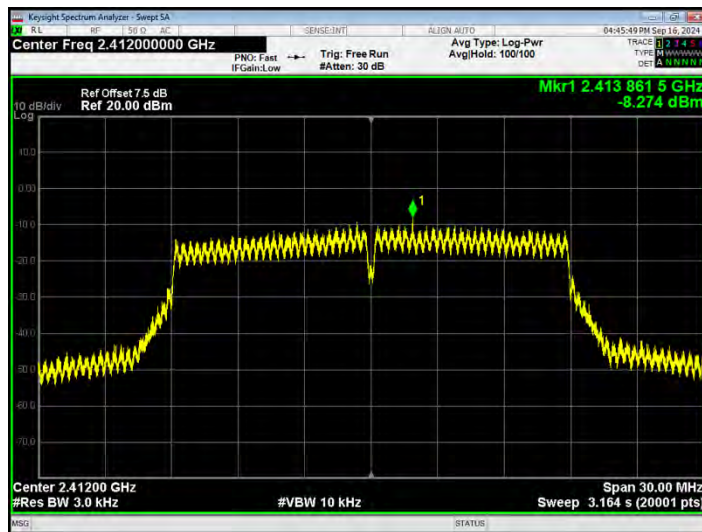
PSD NVNT g 2437MHz Ant1



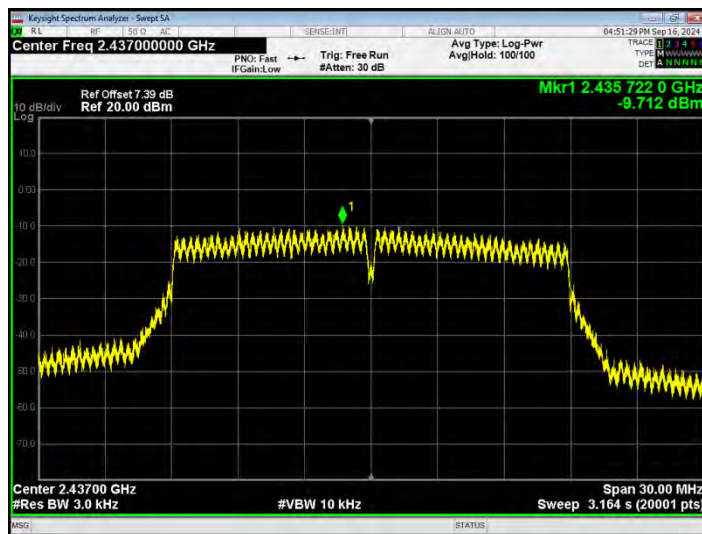
PSD NVNT g 2462MHz Ant1



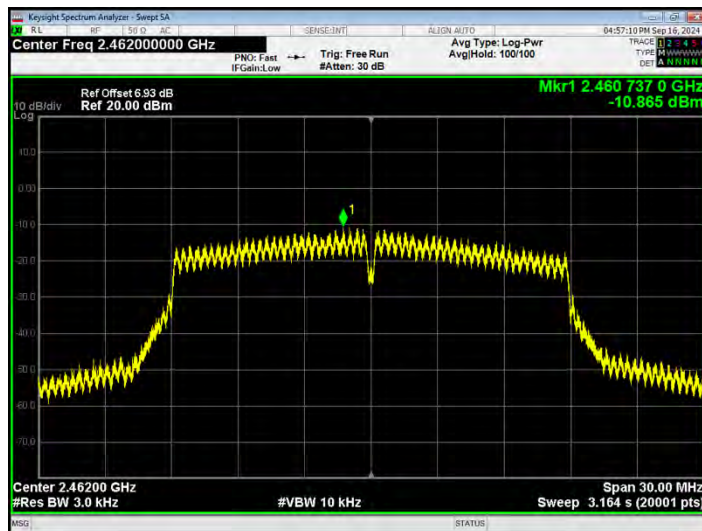
PSD NVNT n20 2412MHz Ant1



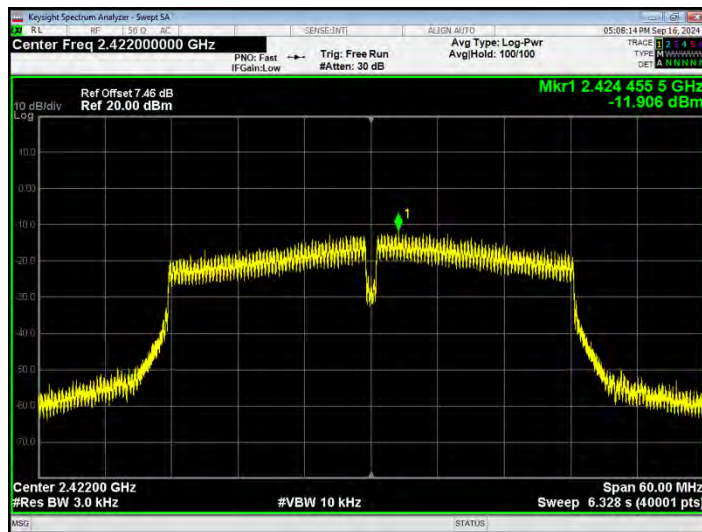
PSD NVNT n20 2437MHz Ant1



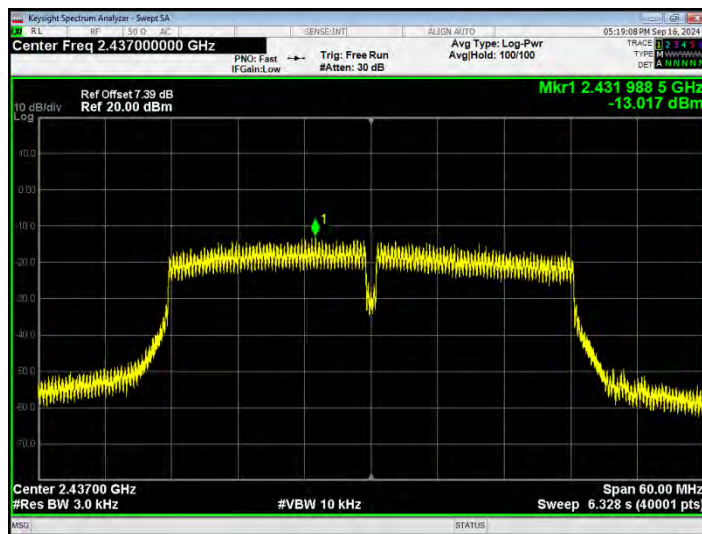
PSD NVNT n20 2462MHz Ant1



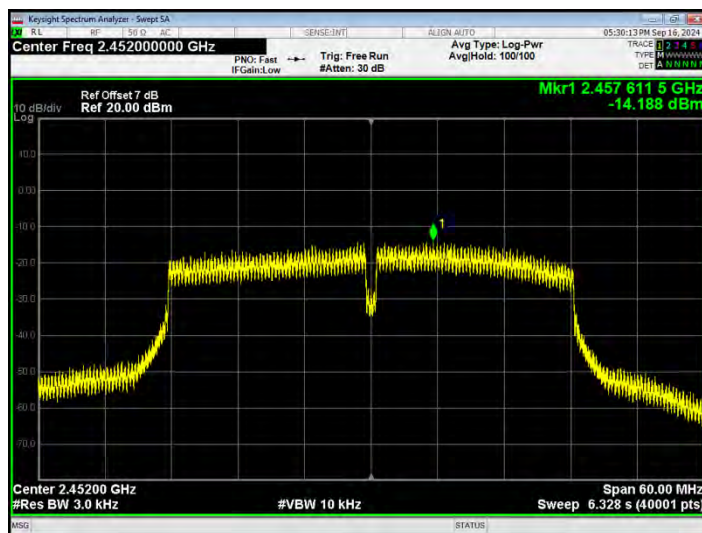
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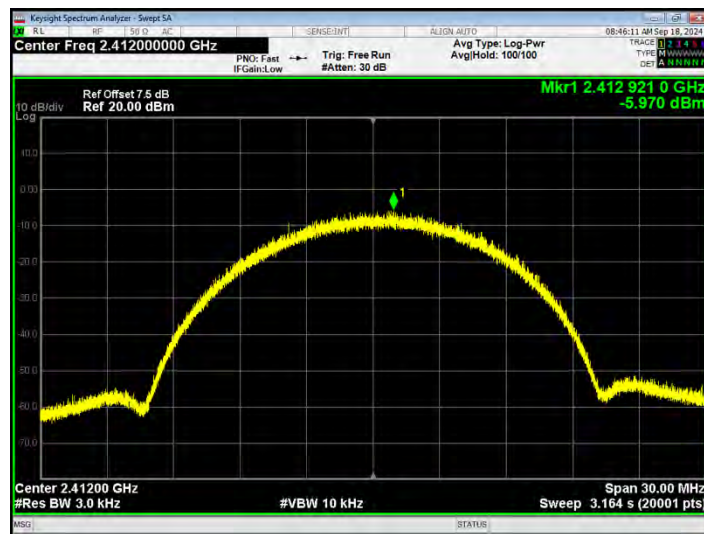
PSD NVNT n40 2437MHz Ant1



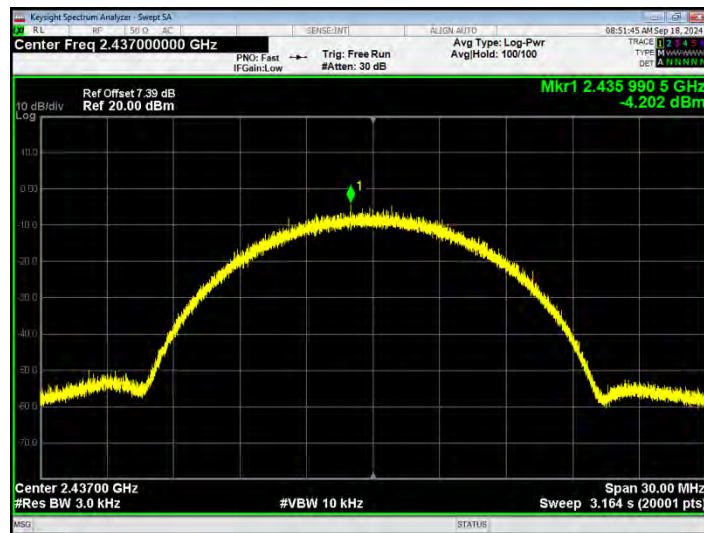
PSD NVNT n40 2452MHz Ant1



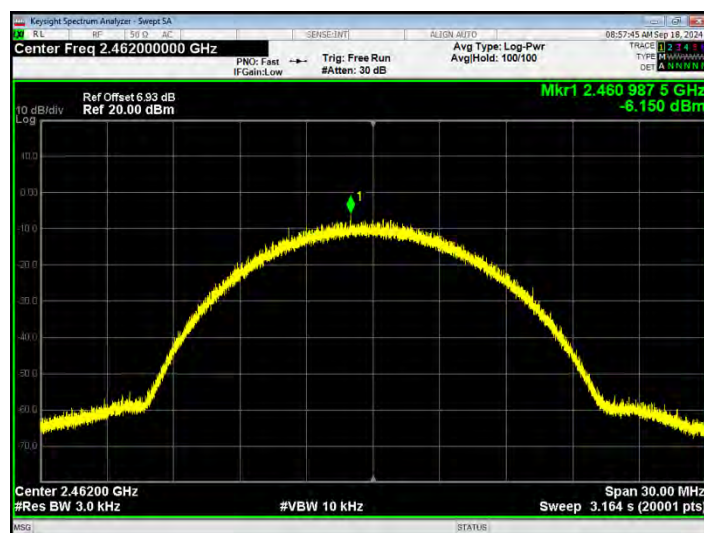
PSD NVNT b 2412MHz Ant2



PSD NVNT b 2437MHz Ant2



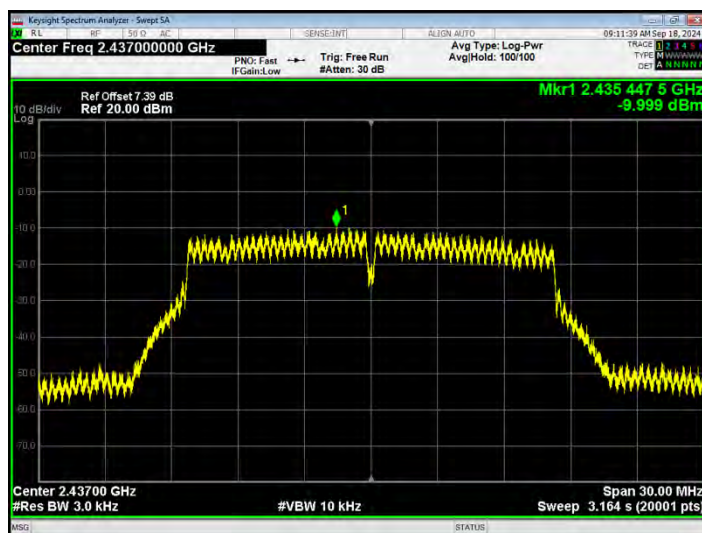
PSD NVNT b 2462MHz Ant2



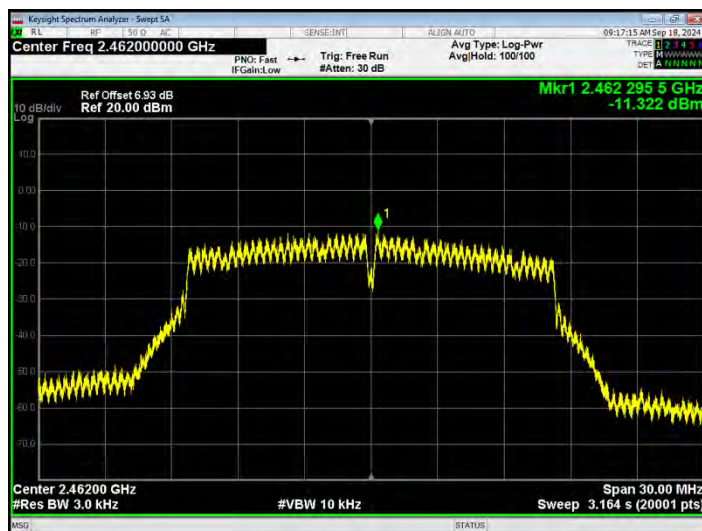
PSD NVNT g 2412MHz Ant2



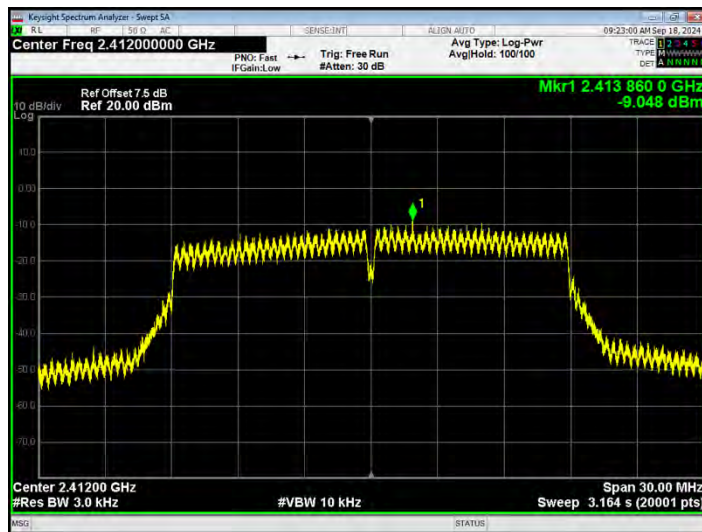
PSD NVNT g 2437MHz Ant2



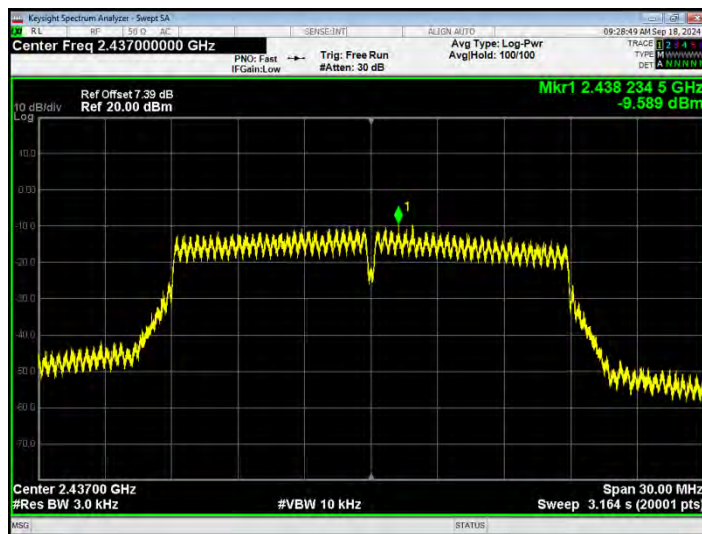
PSD NVNT g 2462MHz Ant2



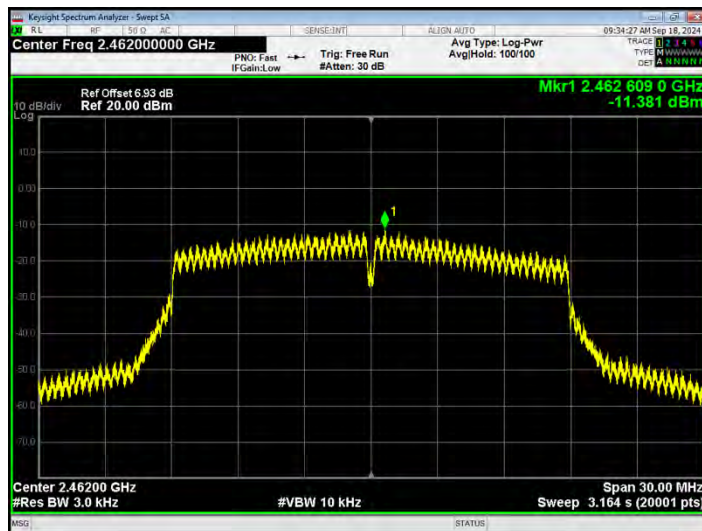
PSD NVNT n20 2412MHz Ant2



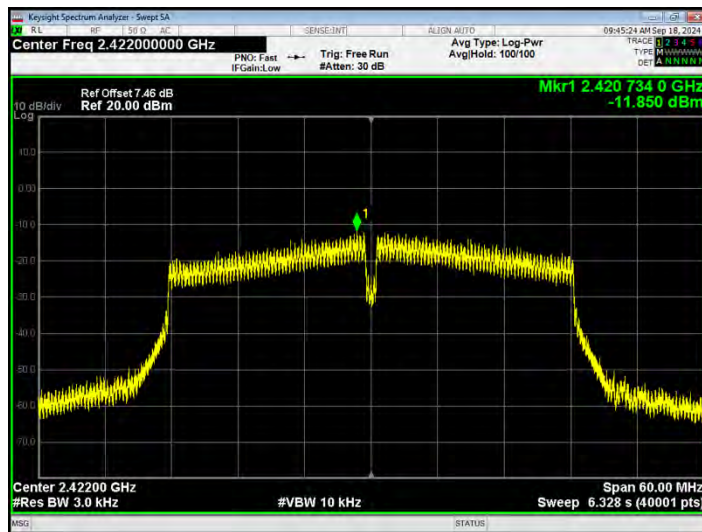
PSD NVNT n20 2437MHz Ant2



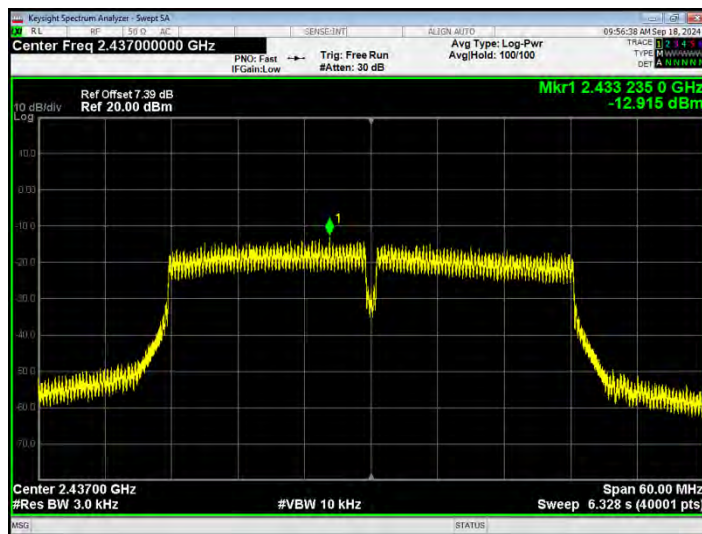
PSD NVNT n20 2462MHz Ant2



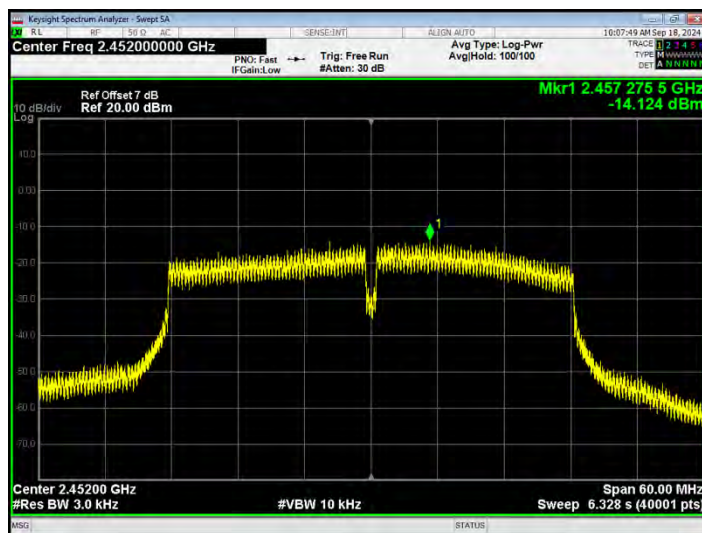
PSD NVNT n40 2422MHz Ant2



PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant2

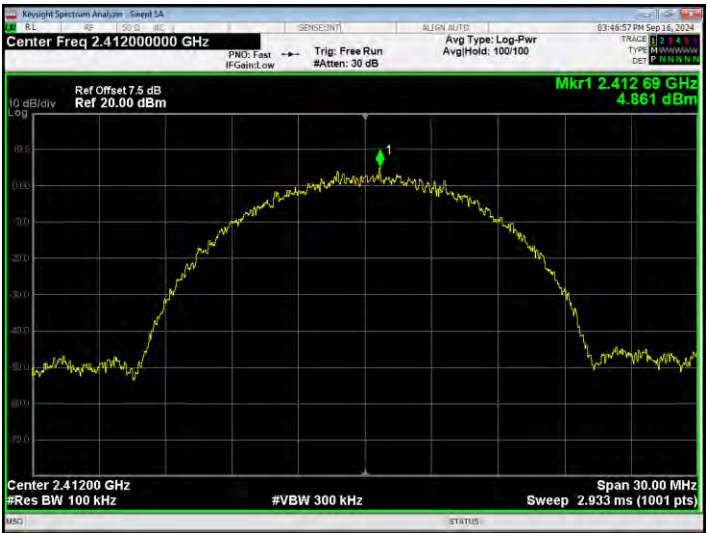


Band Edge

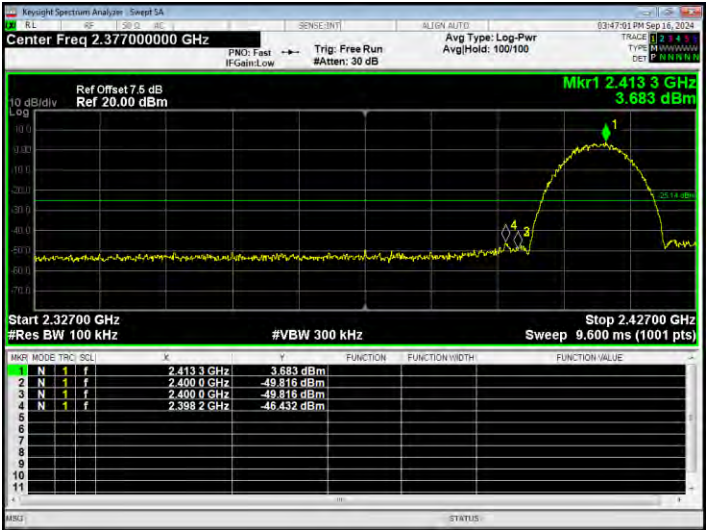
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.29	-30	Pass
NVNT	b	2462	Ant1	-52.81	-30	Pass
NVNT	g	2412	Ant1	-42.39	-30	Pass
NVNT	g	2462	Ant1	-49.88	-30	Pass
NVNT	n20	2412	Ant1	-40.04	-30	Pass
NVNT	n20	2462	Ant1	-46.29	-30	Pass
NVNT	n40	2422	Ant1	-39.12	-30	Pass
NVNT	n40	2452	Ant1	-41.86	-30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-50.31	-30	Pass
NVNT	b	2462	Ant2	-53.37	-30	Pass
NVNT	g	2412	Ant2	-43.14	-30	Pass
NVNT	g	2462	Ant2	-49.77	-30	Pass
NVNT	n20	2412	Ant2	-39.84	-30	Pass
NVNT	n20	2462	Ant2	-47.5	-30	Pass
NVNT	n40	2422	Ant2	-40.06	-30	Pass
NVNT	n40	2452	Ant2	-41.31	-30	Pass

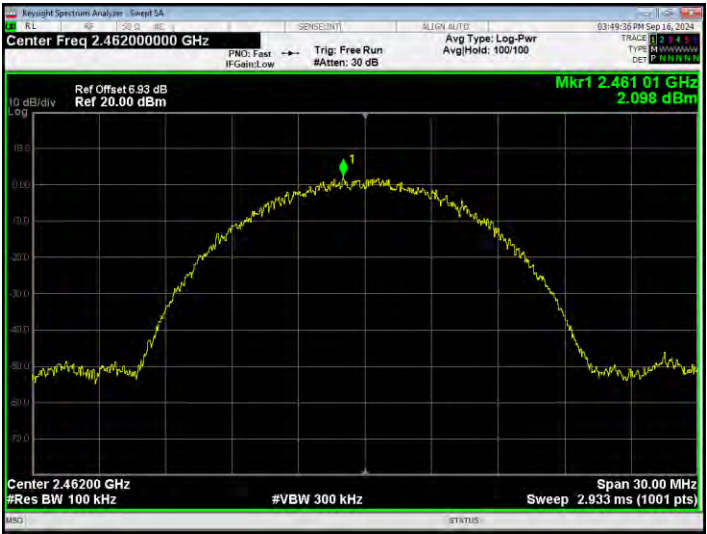
Band Edge NVNT b 2412MHz Ant1 Ref



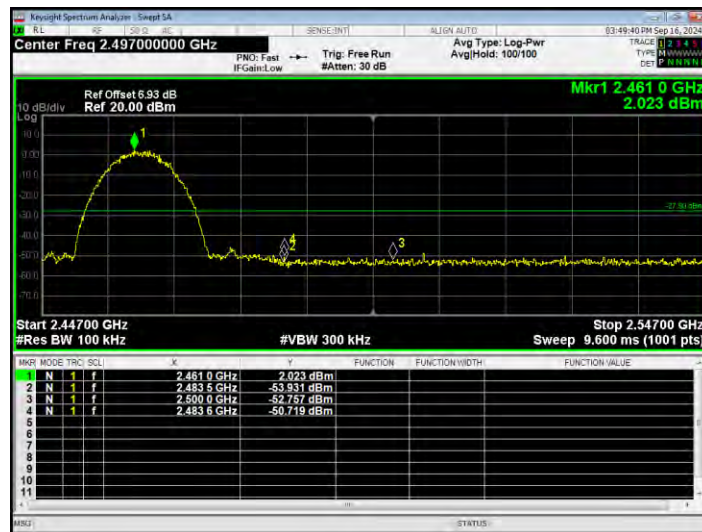
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



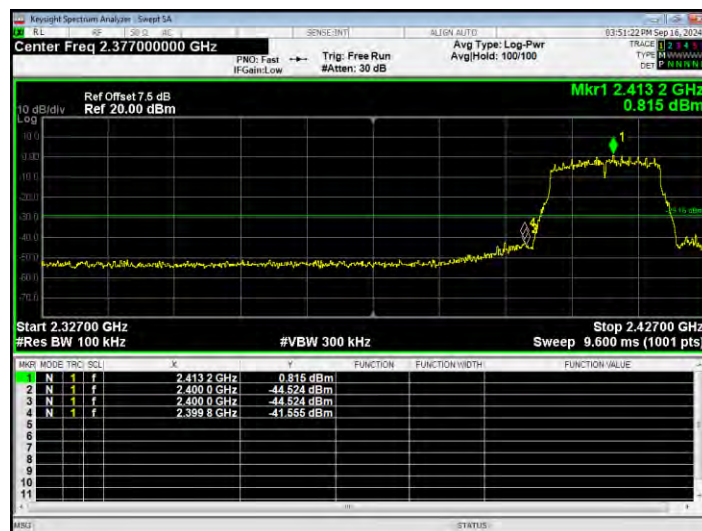
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



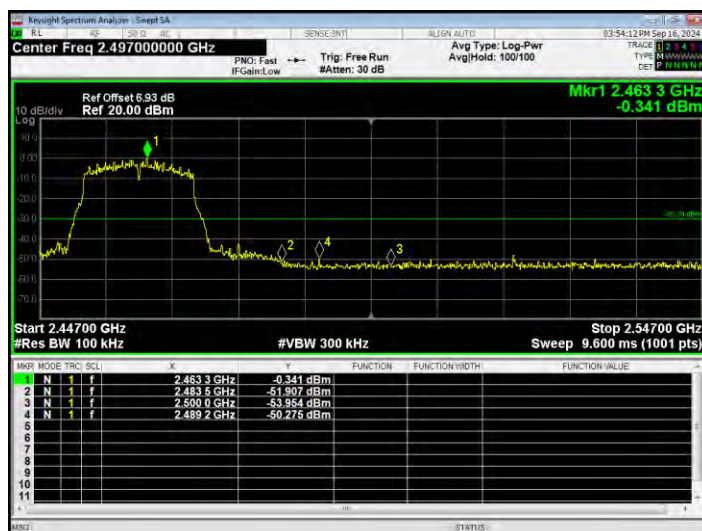
Band Edge NVNT g 2412MHz Ant1 Emission



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