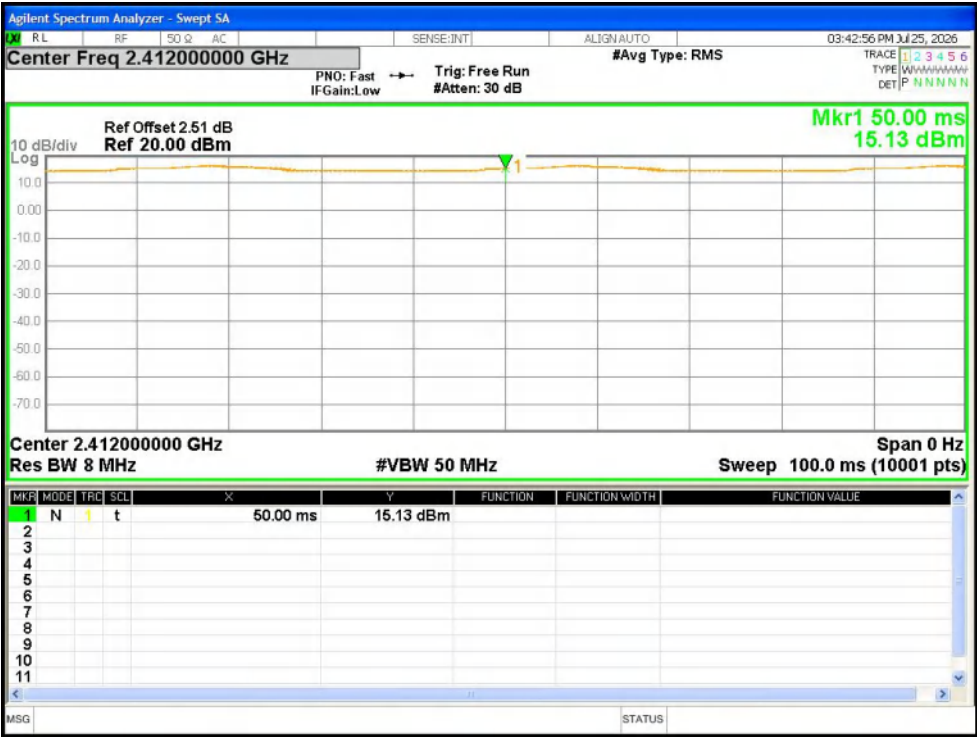


Product Name : Smart Wi-Fi Programmable Thermostat

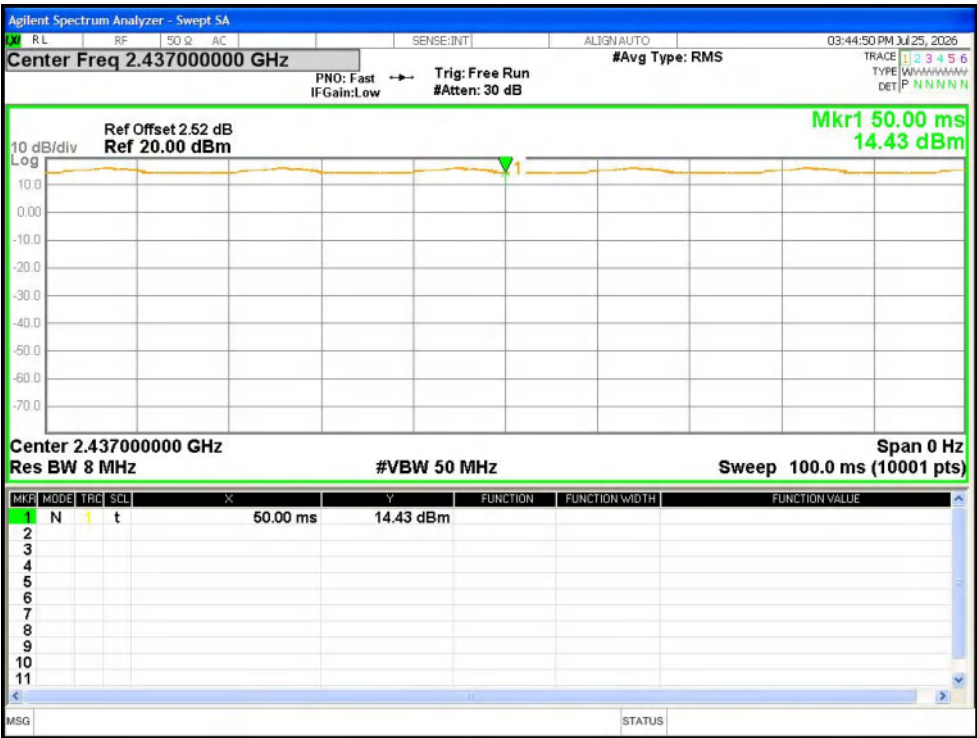
FCC ID : 2BXGQ-EHP001

1. Duty Cycle

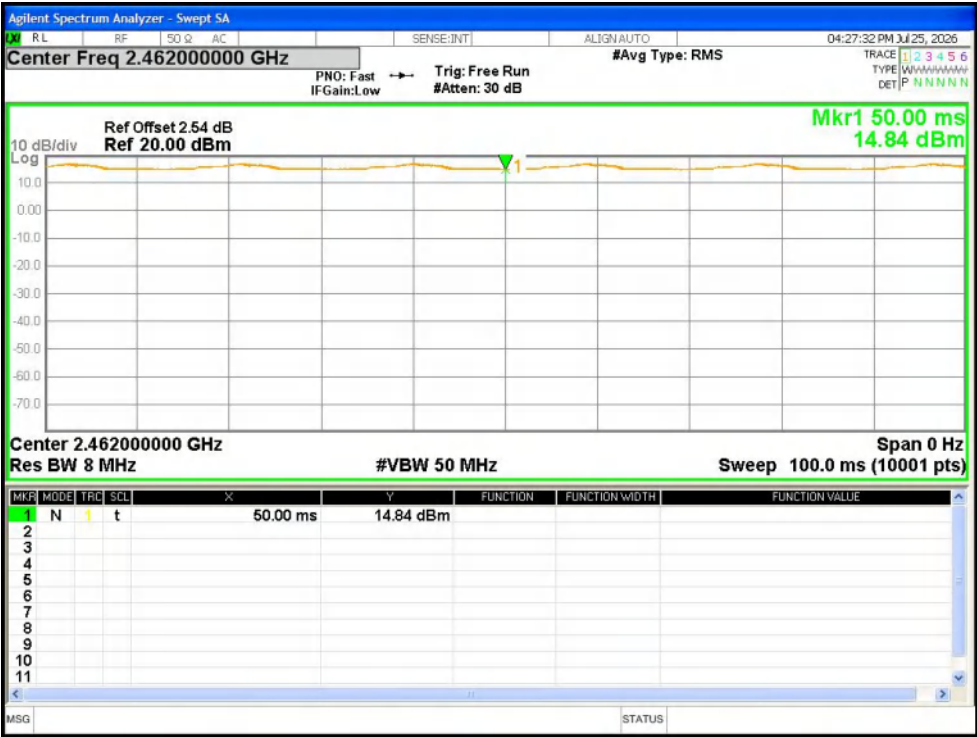
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0



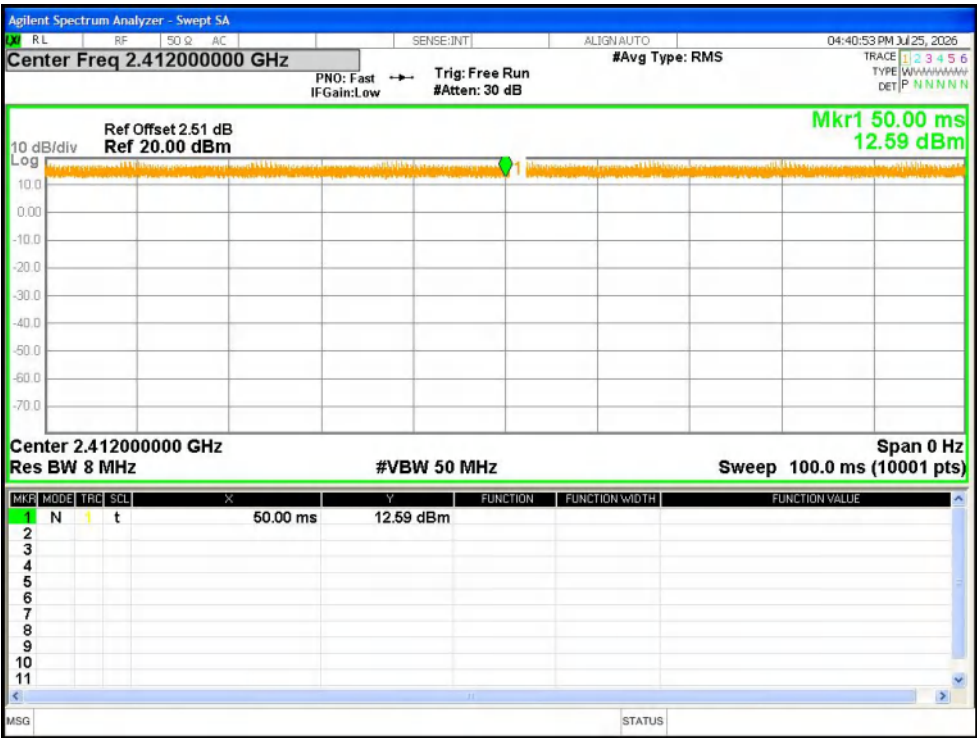
Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



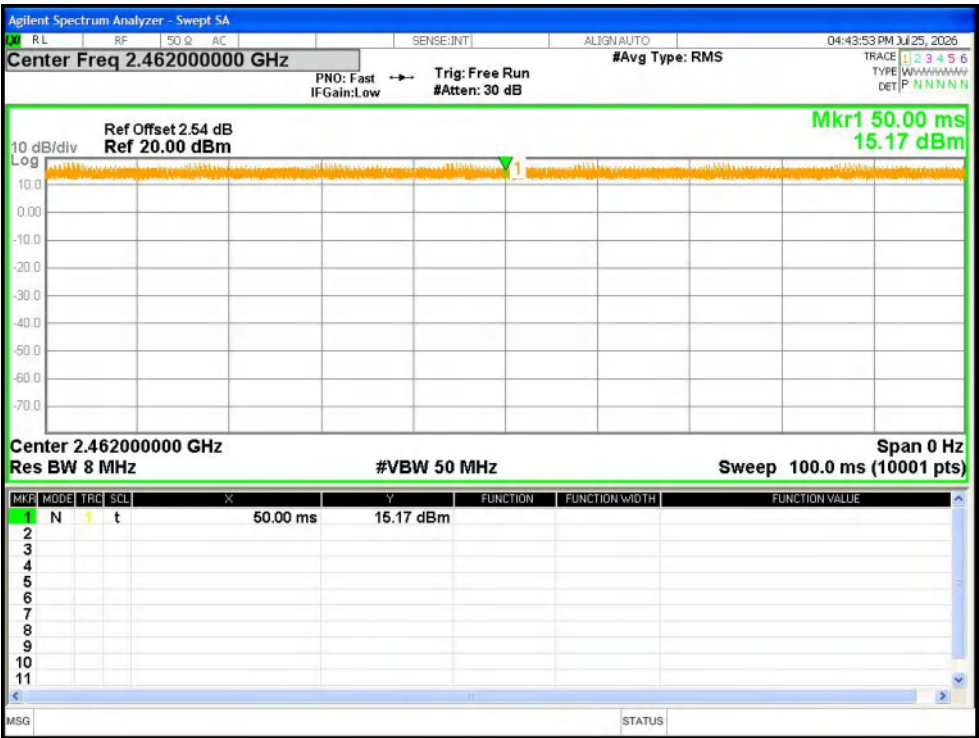
Duty Cycle NVNT b 2462MHz Ant1



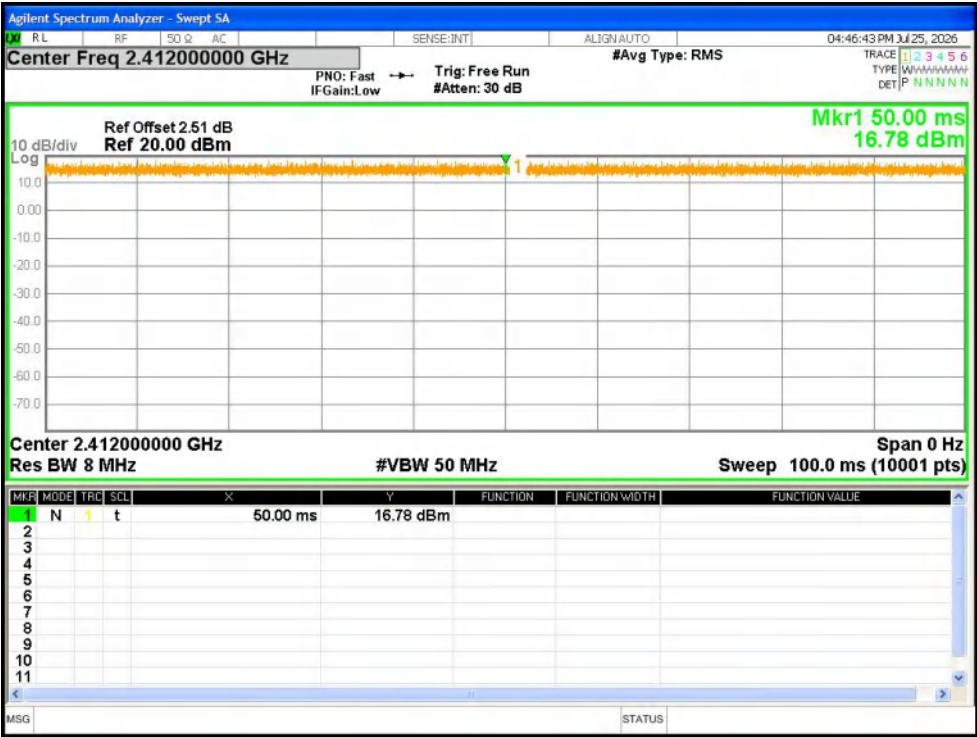
Duty Cycle NVNT g 2412MHz Ant1



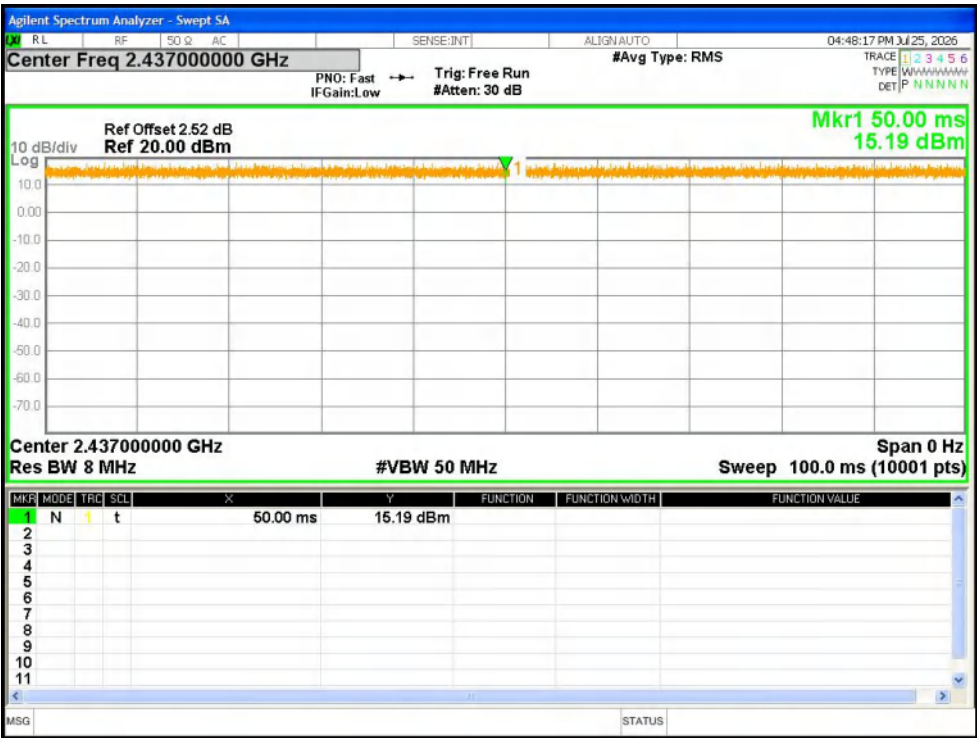
Duty Cycle NVNT g 2437MHz Ant1



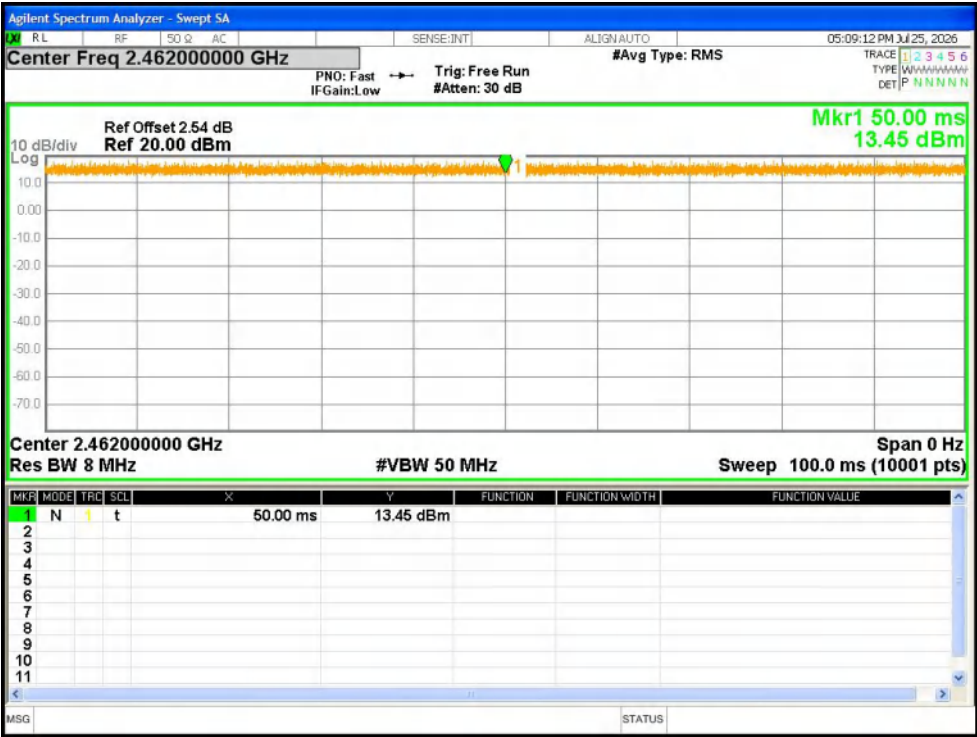
Duty Cycle NVNT g 2462MHz Ant1



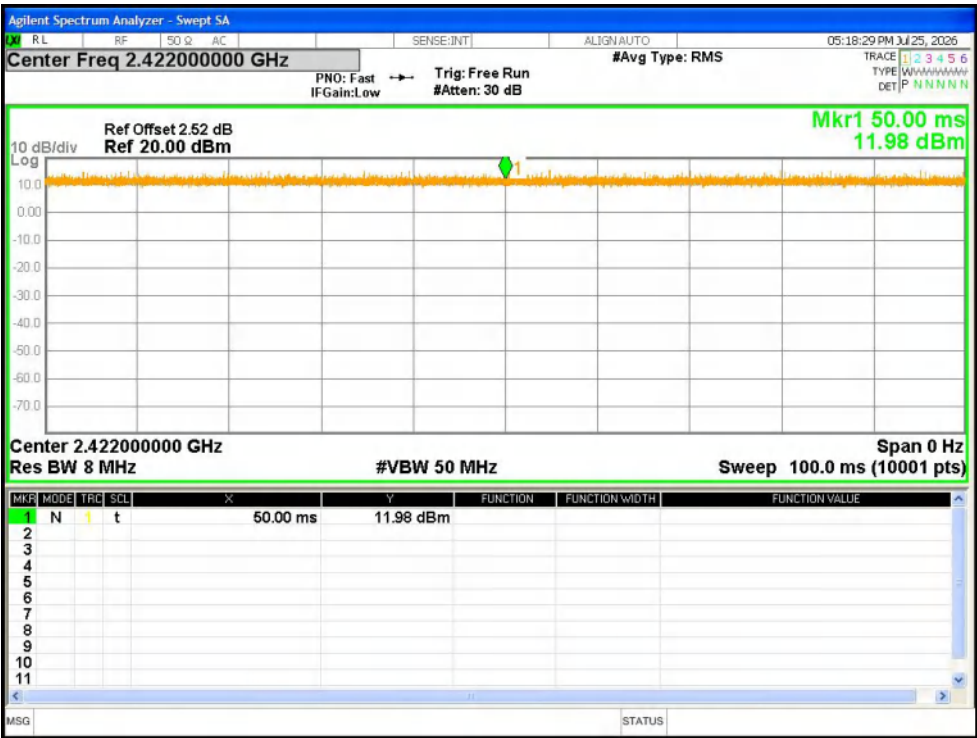
Duty Cycle NVNT n20 2412MHz Ant1



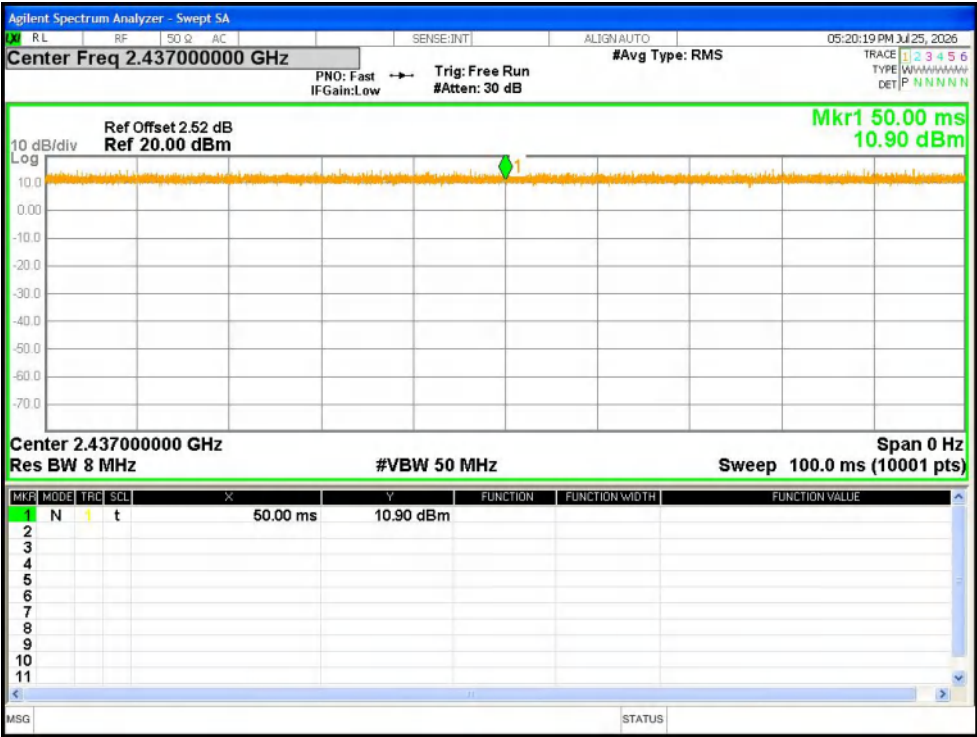
Duty Cycle NVNT n20 2437MHz Ant1



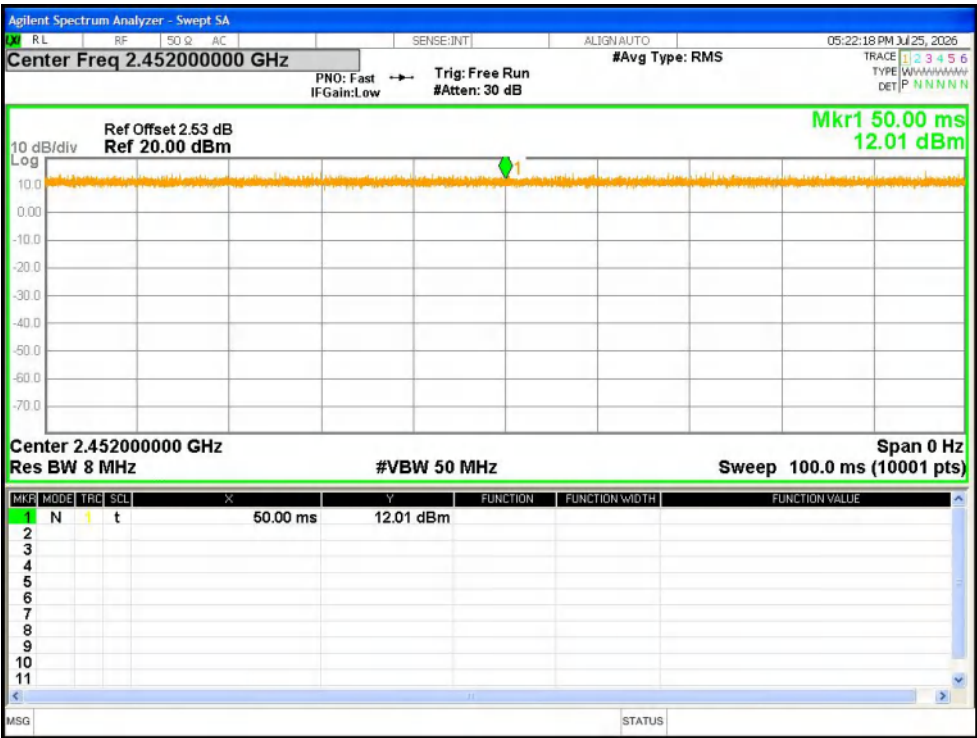
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



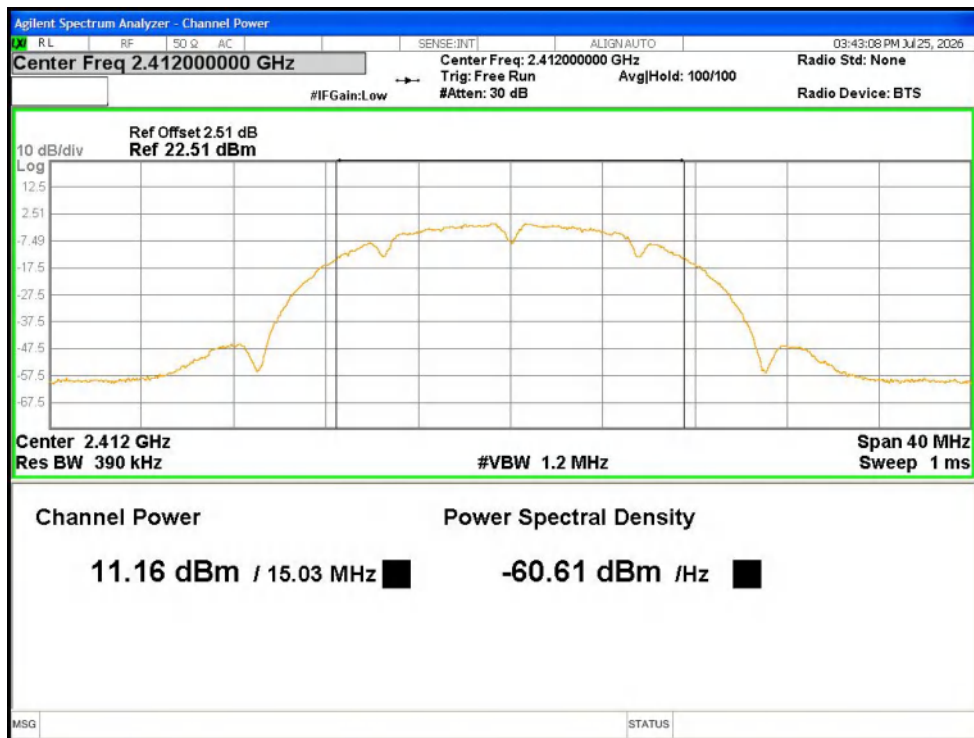
Duty Cycle NVNT n40 2452MHz Ant1

2. Maximum Average Conducted Output Power

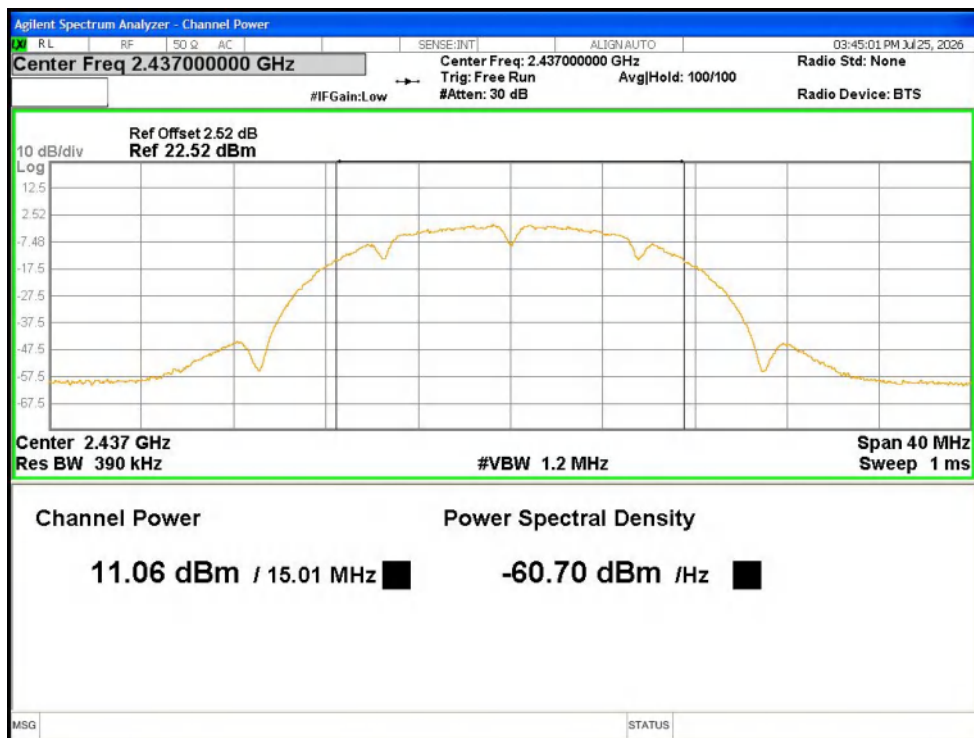
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	EIRP(dBm)	Verdict
NVNT	b	2412	Ant1	11.16	30	12.53	Pass
NVNT	b	2437	Ant1	11.06	30	12.43	Pass
NVNT	b	2462	Ant1	11.48	30	12.85	Pass
NVNT	g	2412	Ant1	11.21	30	12.58	Pass
NVNT	g	2437	Ant1	10.99	30	12.36	Pass
NVNT	g	2462	Ant1	10.68	30	12.05	Pass
NVNT	n20	2412	Ant1	11.3	30	12.67	Pass
NVNT	n20	2437	Ant1	11.07	30	12.44	Pass
NVNT	n20	2462	Ant1	11.17	30	12.54	Pass
NVNT	n40	2422	Ant1	11.25	30	12.62	Pass
NVNT	n40	2437	Ant1	11.1	30	12.47	Pass
NVNT	n40	2452	Ant1	10.93	30	12.3	Pass

ANT Gain is 1.37dBi

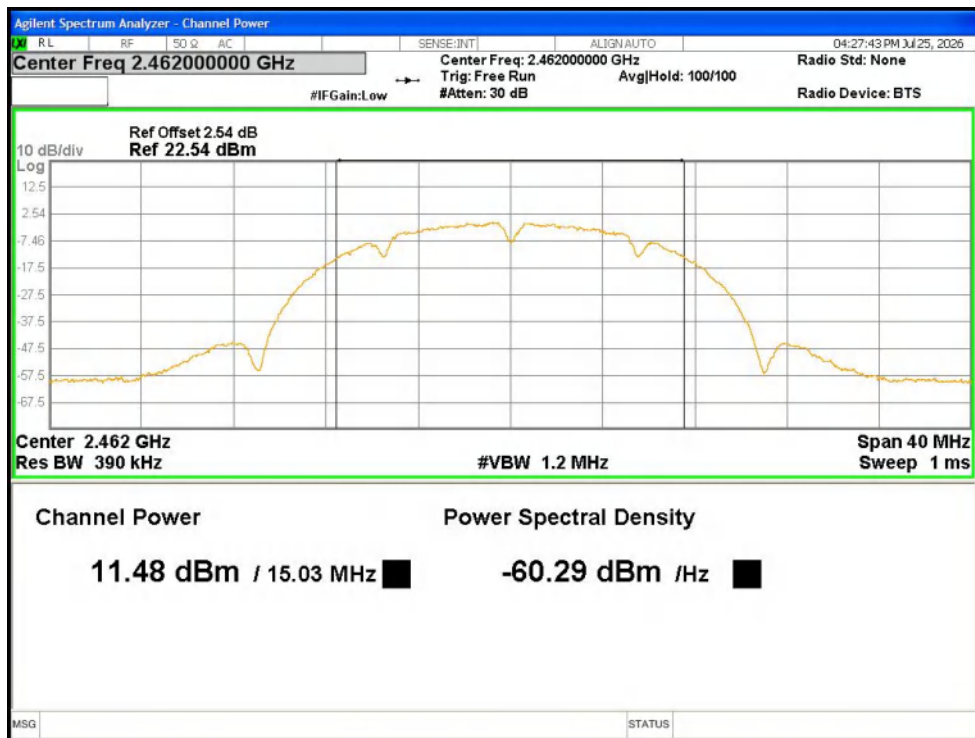
Note: EIRP=Conducted Power+ANT Gain



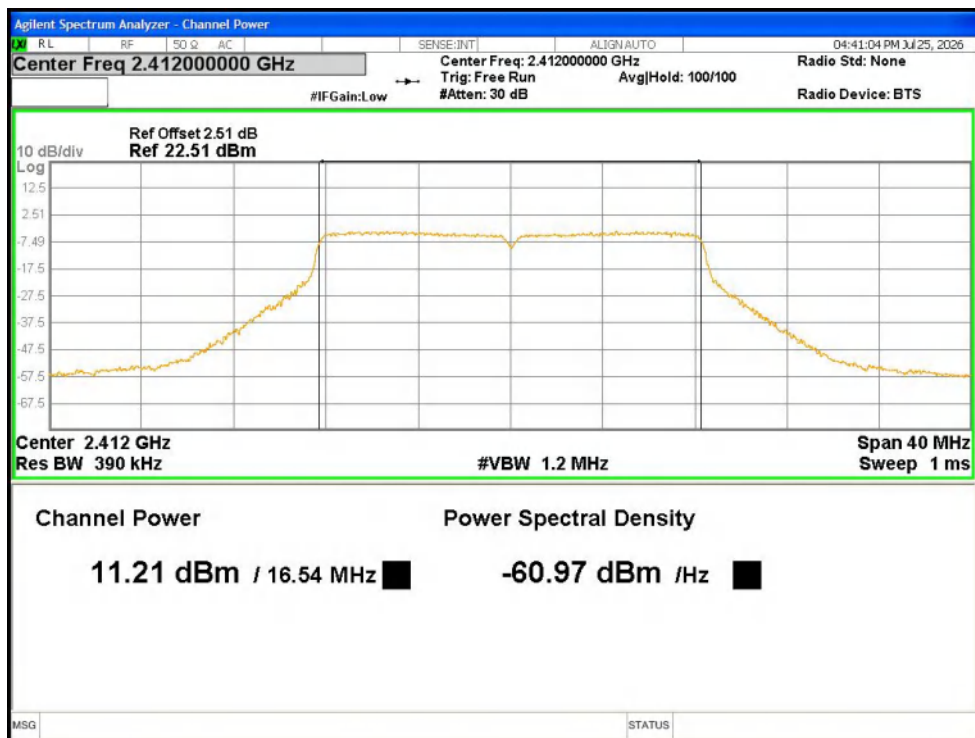
Average Power NVNT b 2412MHz Ant1



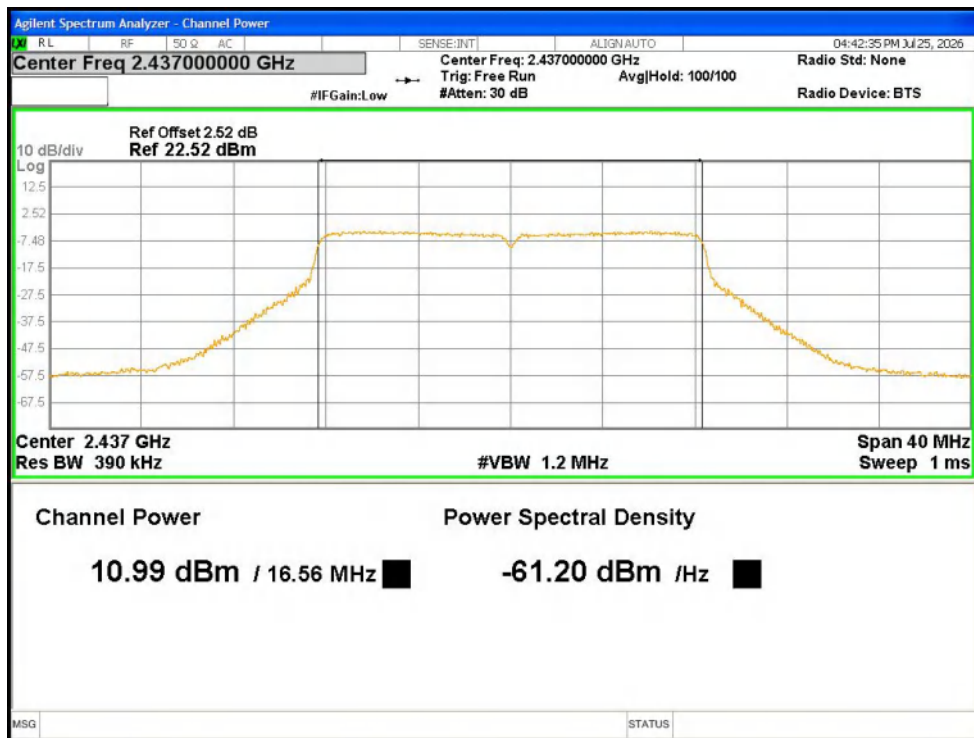
Average Power NVNT b 2437MHz Ant1



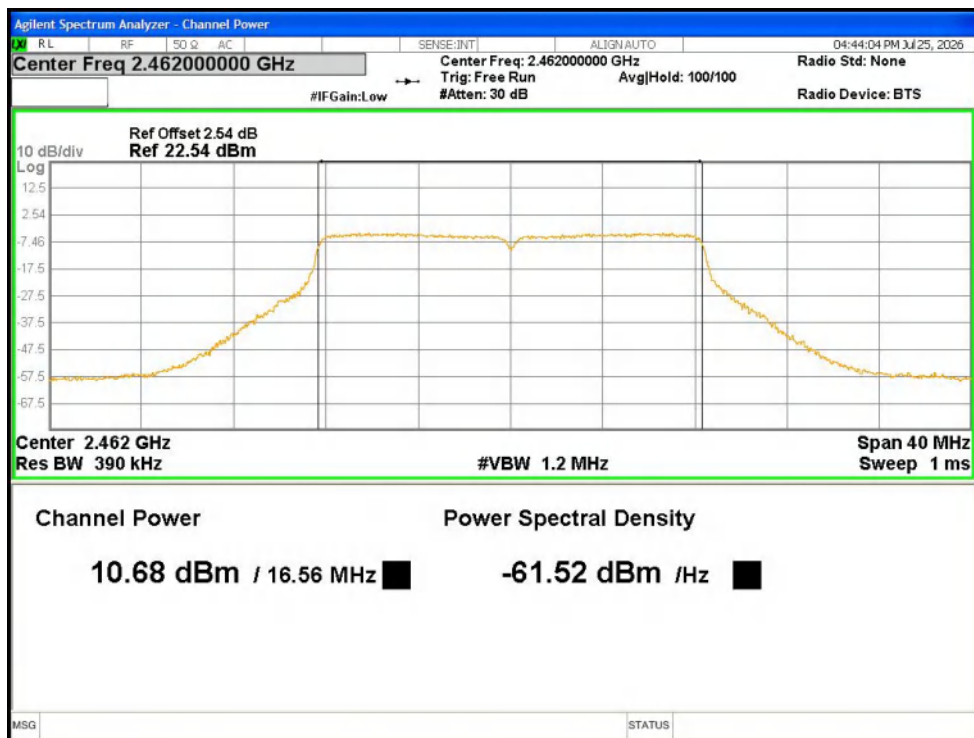
Average Power NVNT b 2462MHz Ant1



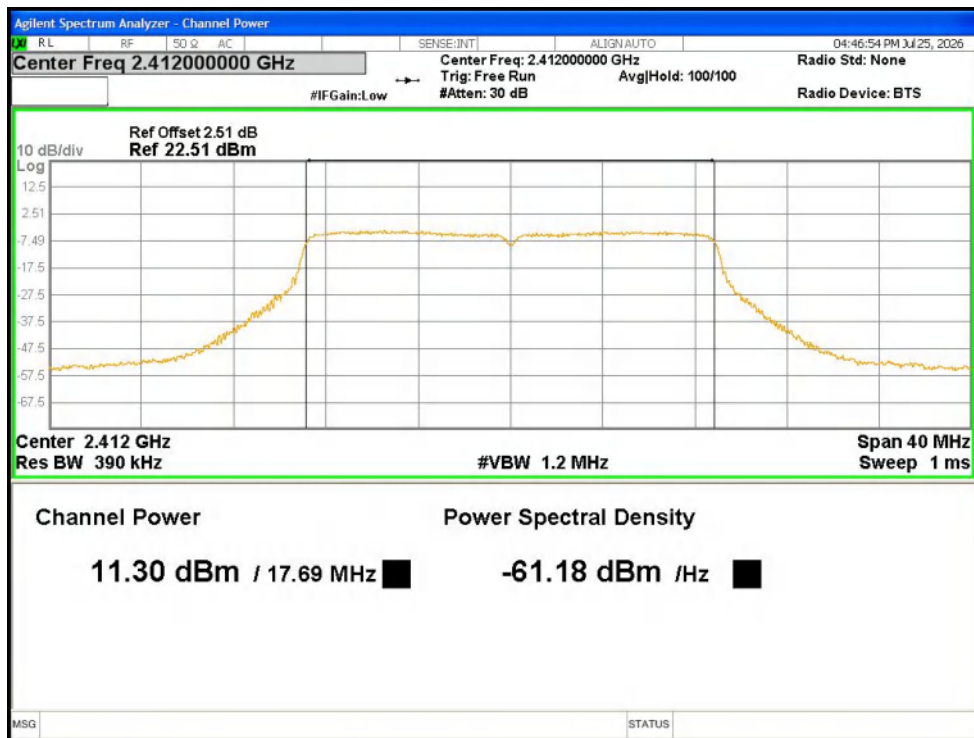
Average Power NVNT g 2412MHz Ant1



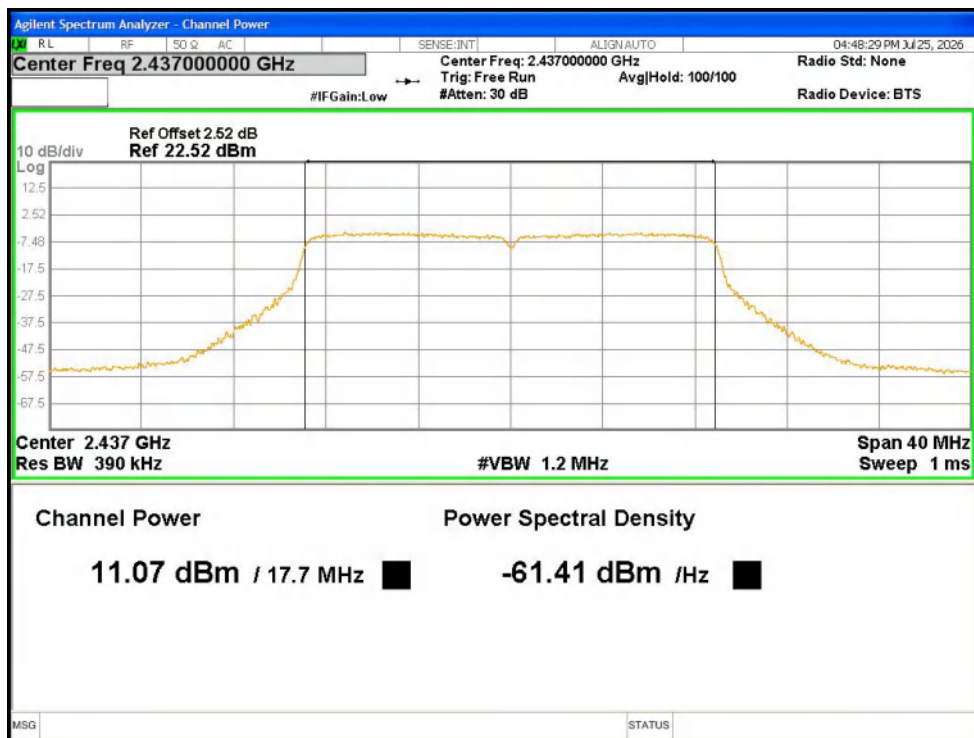
Average Power NVNT g 2437MHz Ant1



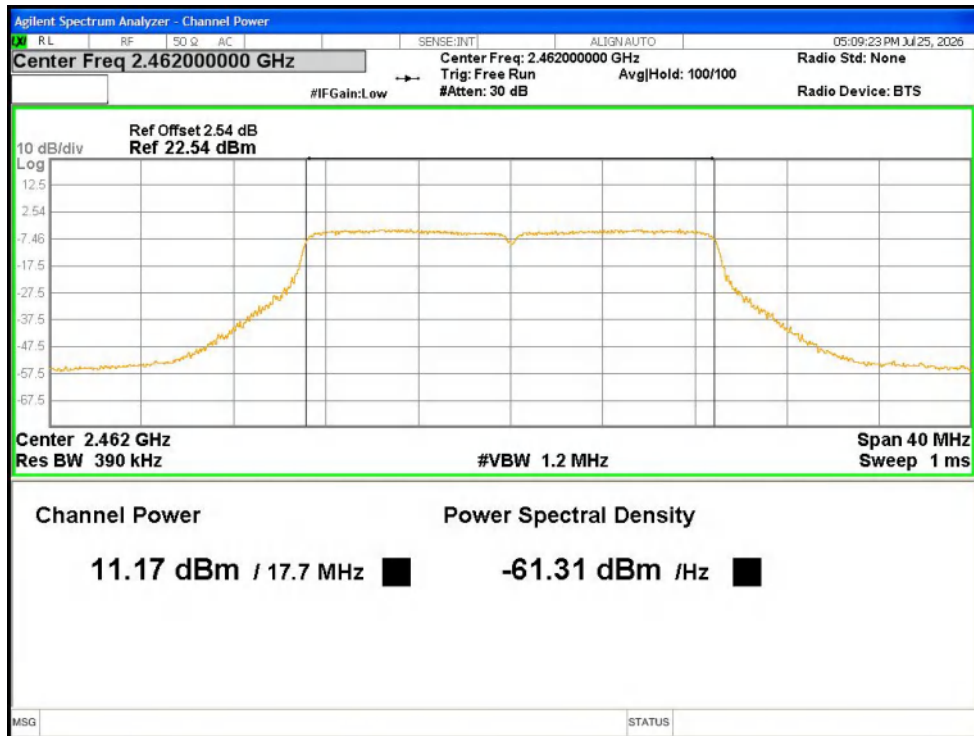
Average Power NVNT g 2462MHz Ant1



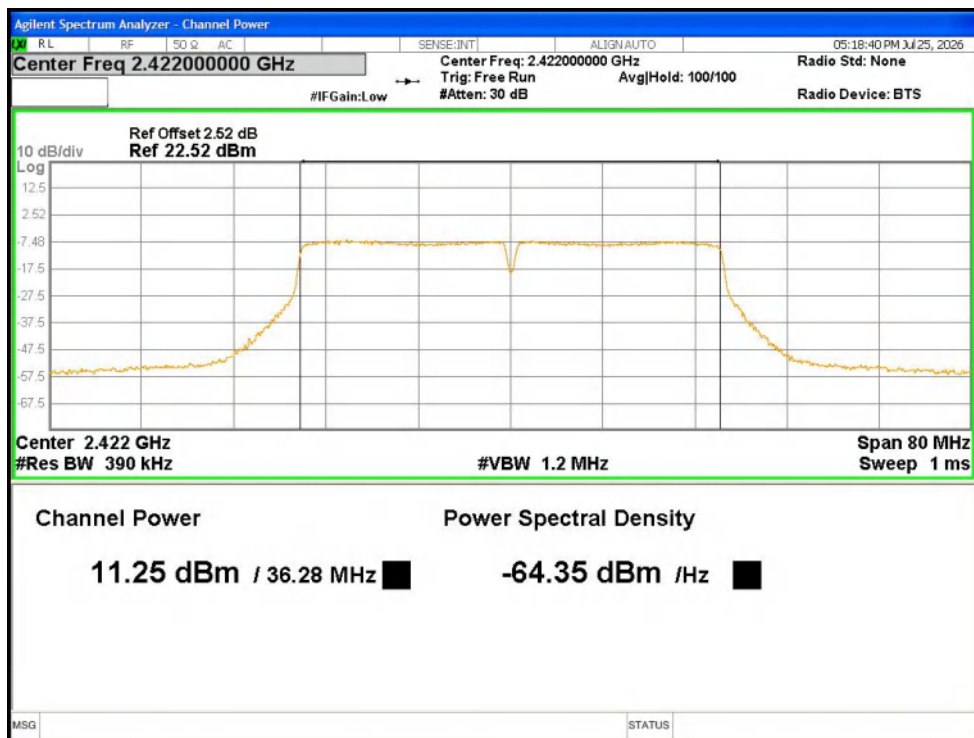
Average Power NVNT n20 2412MHz Ant1



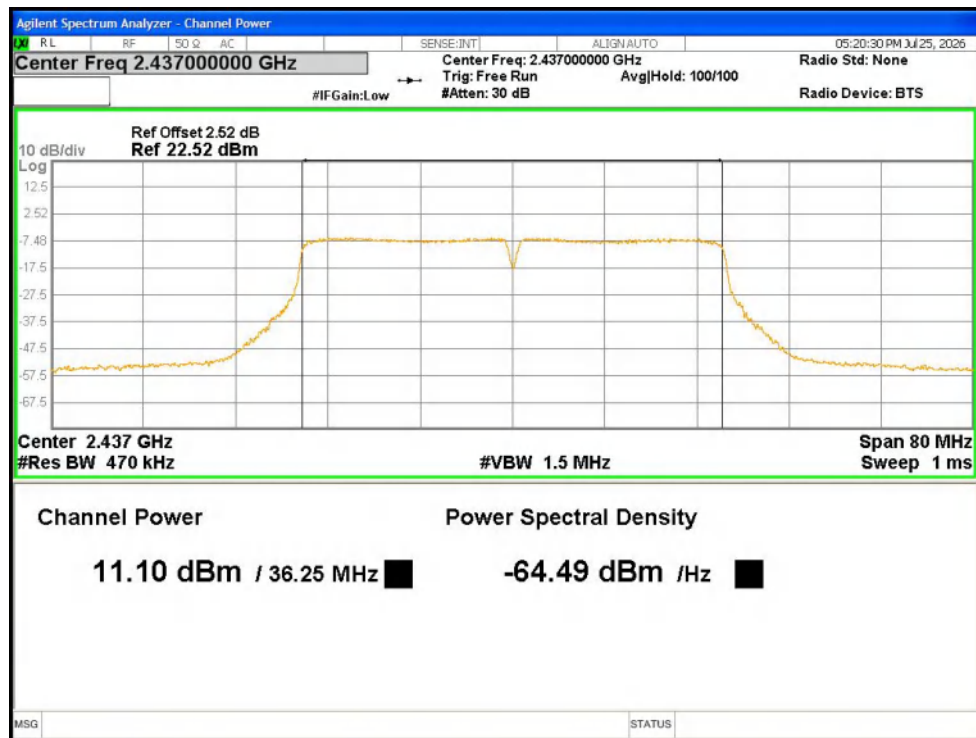
Average Power NVNT n20 2437MHz Ant1



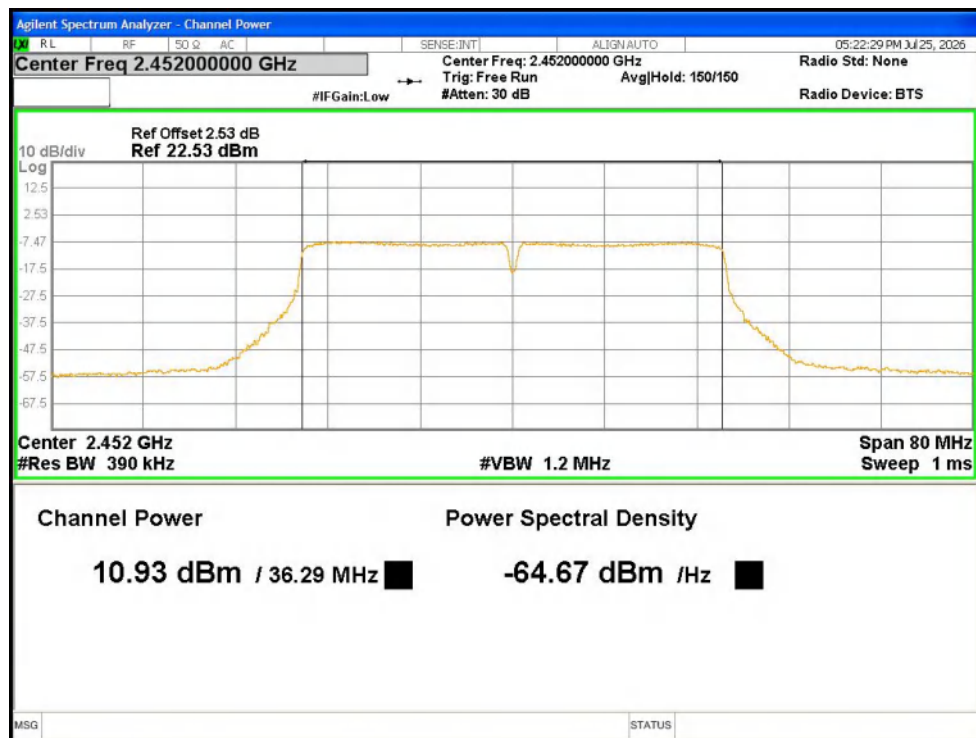
Average Power NVNT n20 2462MHz Ant1



Average Power NVNT n40 2422MHz Ant1



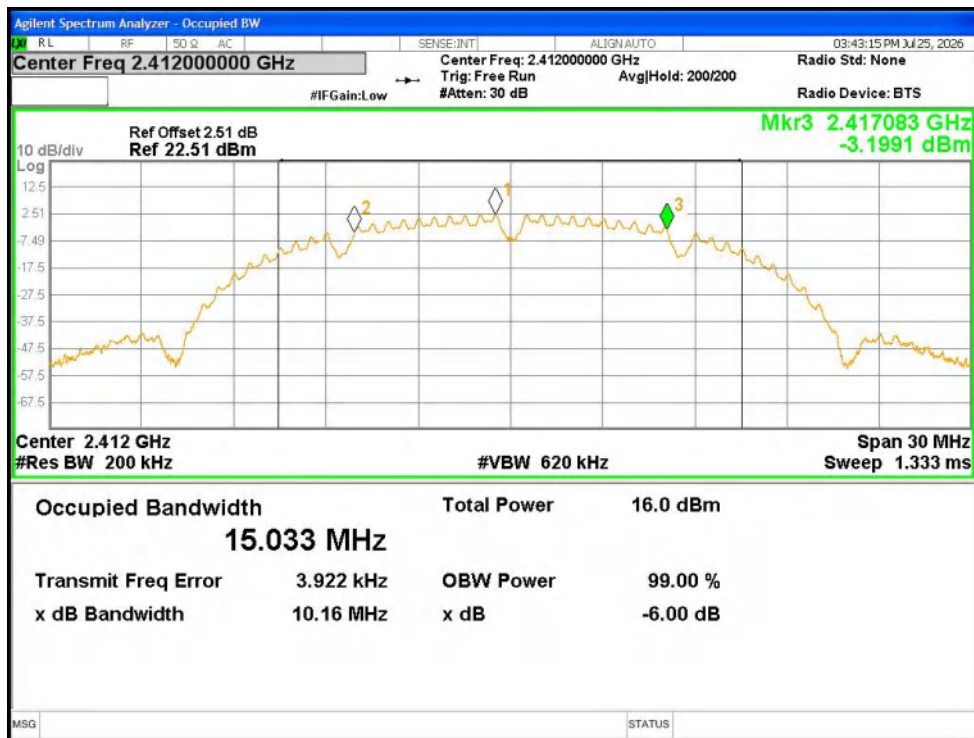
Average Power NVNT n40 2437MHz Ant1



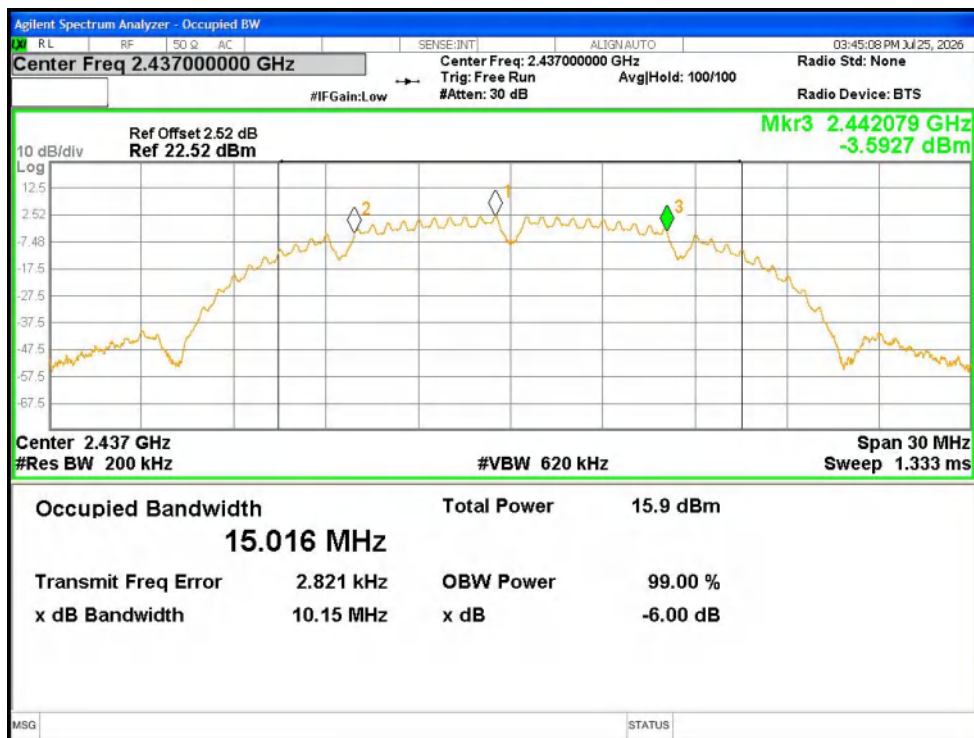
Average Power NVNT n40 2452MHz Ant1

3. -6dB Bandwidth

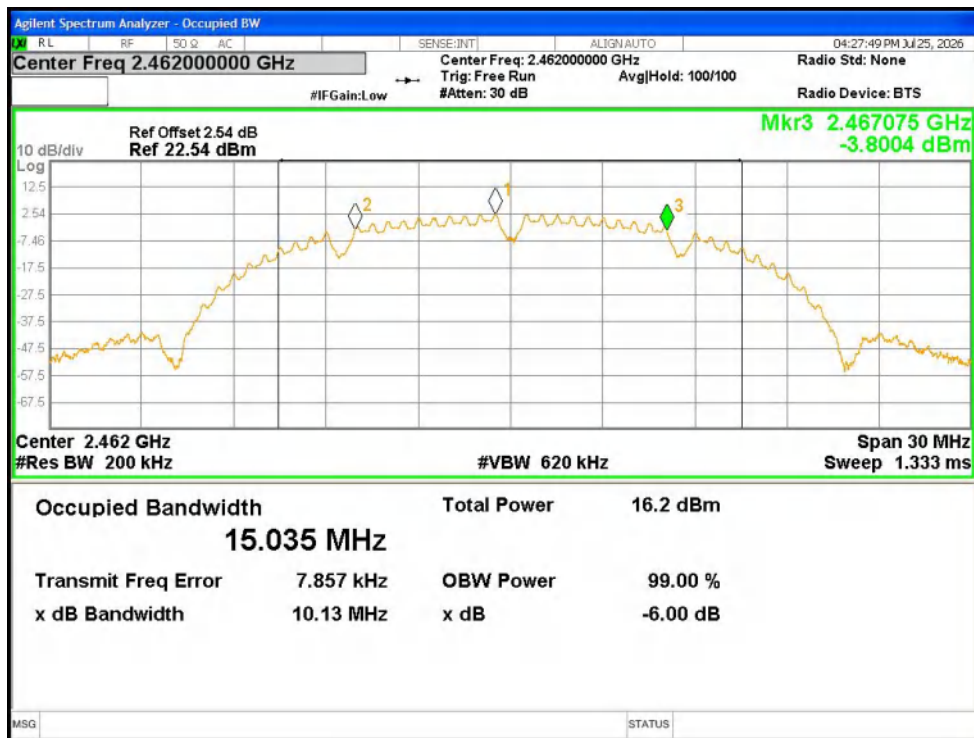
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.157	0.5	Pass
NVNT	b	2437	Ant1	10.153	0.5	Pass
NVNT	b	2462	Ant1	10.134	0.5	Pass
NVNT	g	2412	Ant1	16.474	0.5	Pass
NVNT	g	2437	Ant1	16.467	0.5	Pass
NVNT	g	2462	Ant1	16.409	0.5	Pass
NVNT	n20	2412	Ant1	17.596	0.5	Pass
NVNT	n20	2437	Ant1	17.644	0.5	Pass
NVNT	n20	2462	Ant1	17.611	0.5	Pass
NVNT	n40	2422	Ant1	36.142	0.5	Pass
NVNT	n40	2437	Ant1	36.132	0.5	Pass
NVNT	n40	2452	Ant1	36.161	0.5	Pass



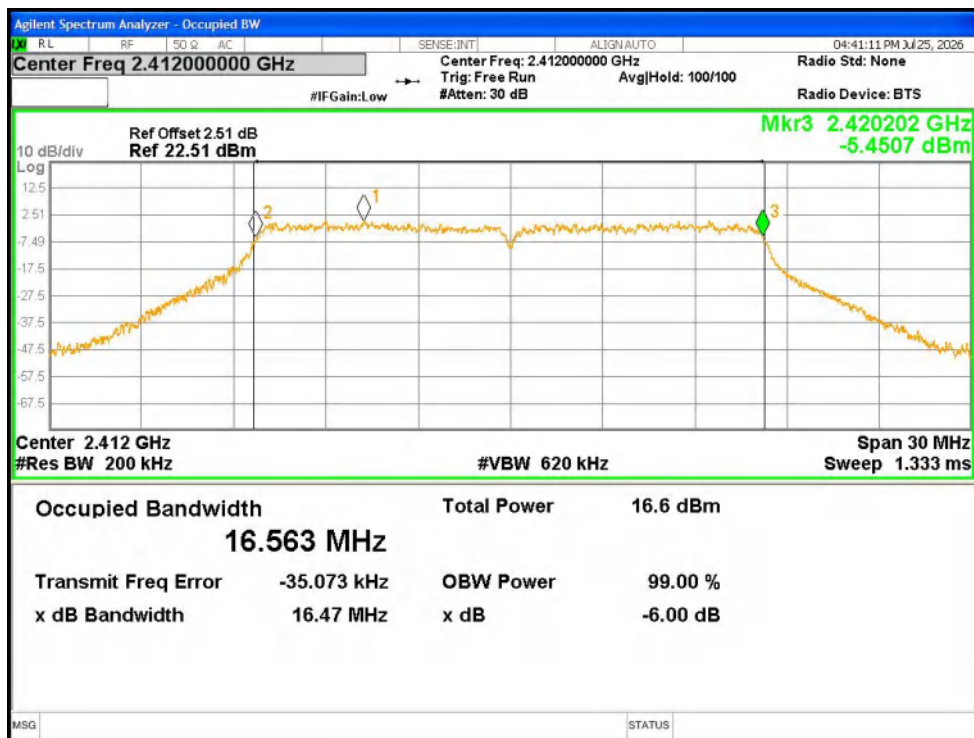
-6dB Bandwidth NVNT b 2412MHz Ant1



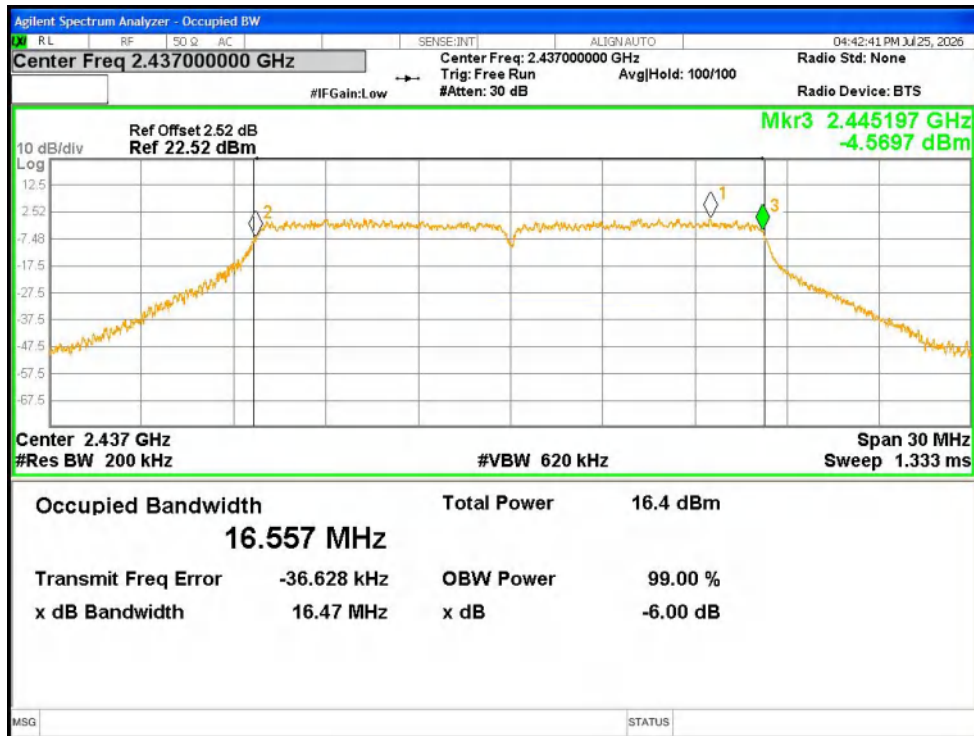
-6dB Bandwidth NVNT b 2437MHz Ant1



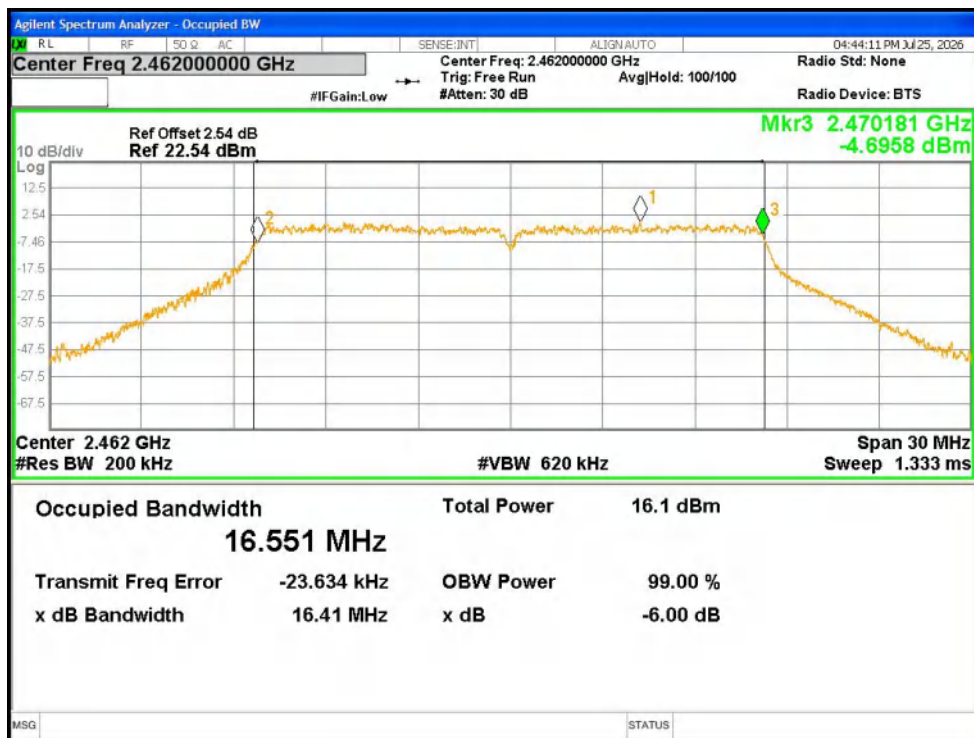
-6dB Bandwidth NVNT b 2462MHz Ant1



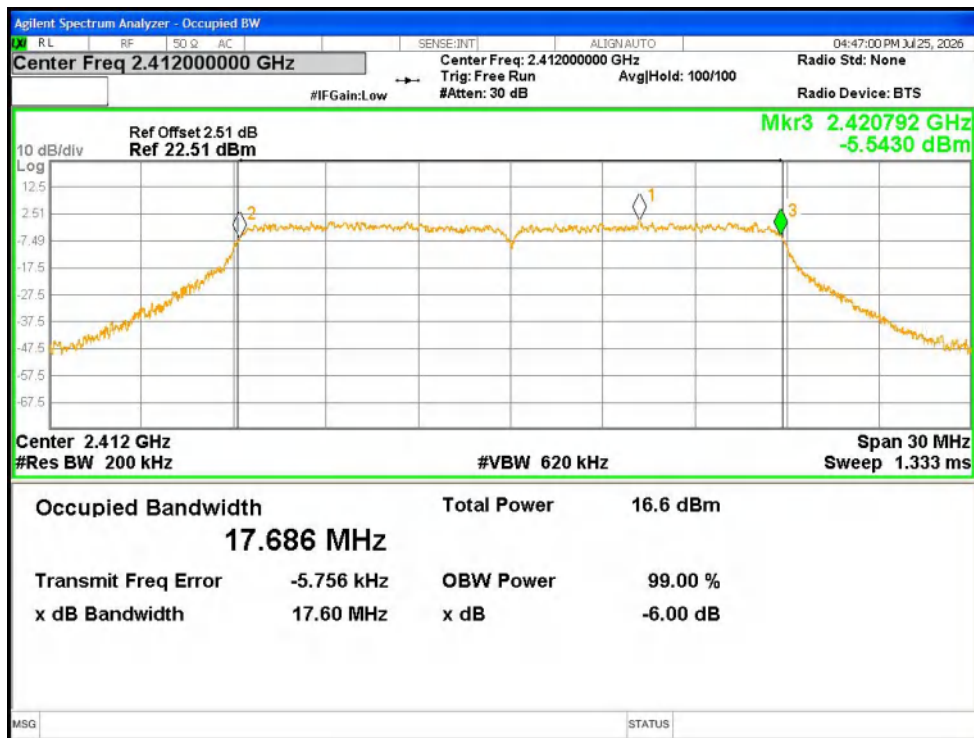
-6dB Bandwidth NVNT g 2412MHz Ant1



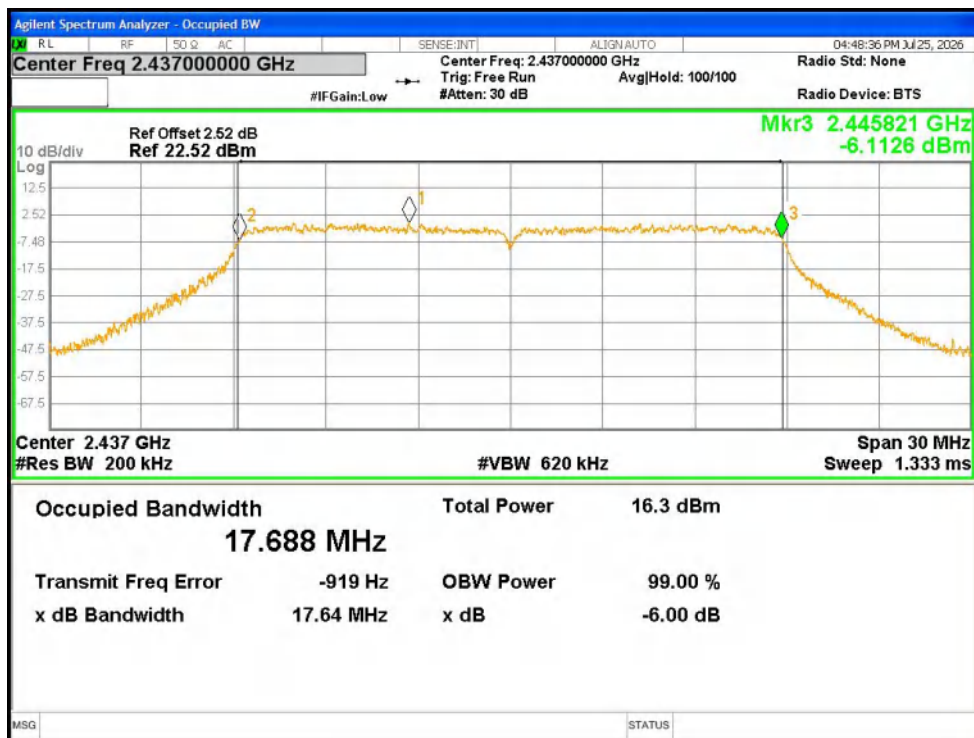
-6dB Bandwidth NVNT g 2437MHz Ant1



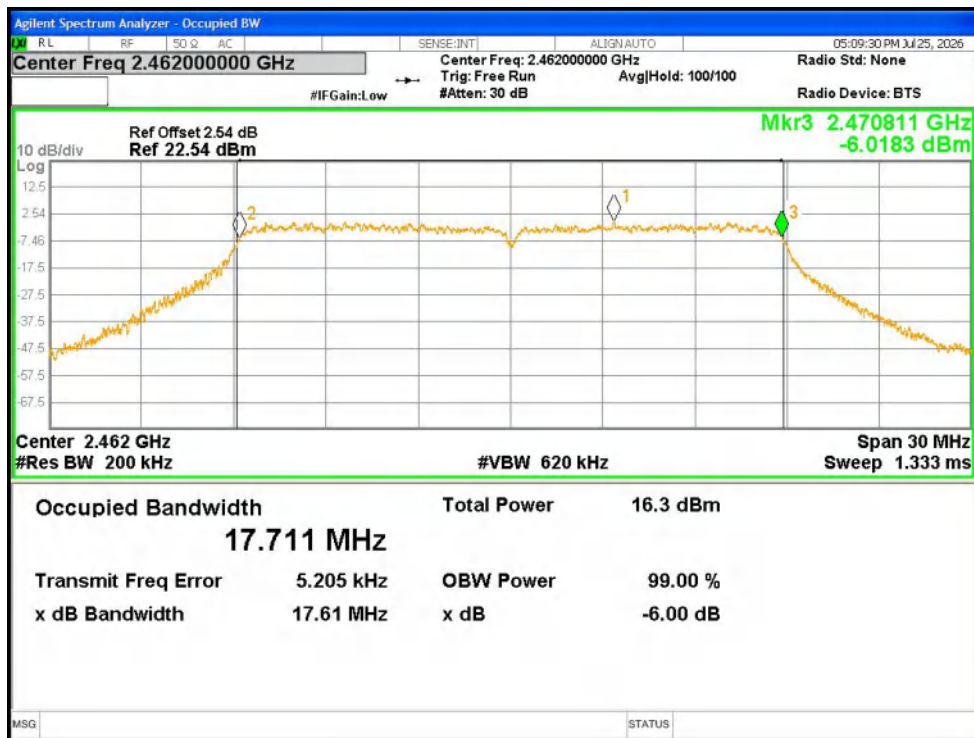
-6dB Bandwidth NVNT g 2462MHz Ant1



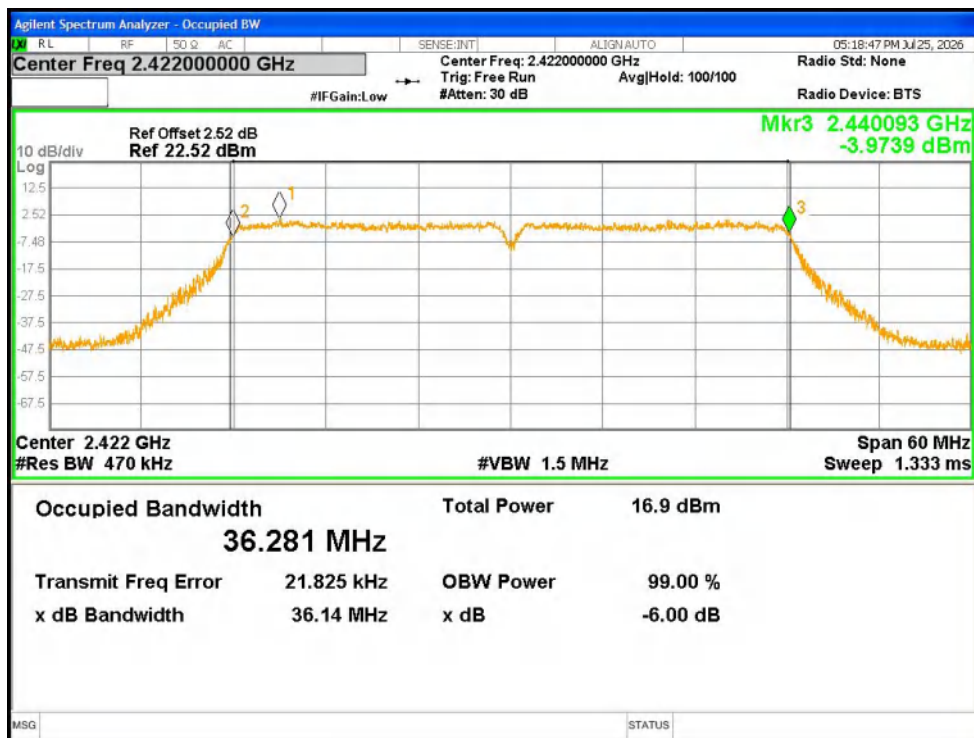
-6dB Bandwidth NVNT n20 2412MHz Ant1



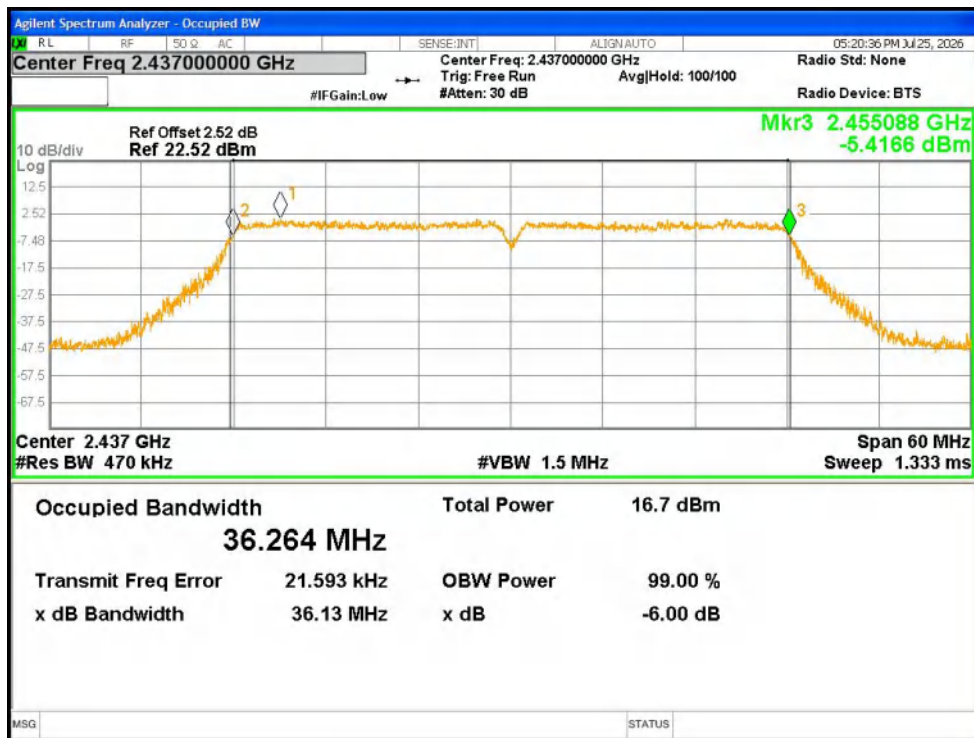
-6dB Bandwidth NVNT n20 2437MHz Ant1



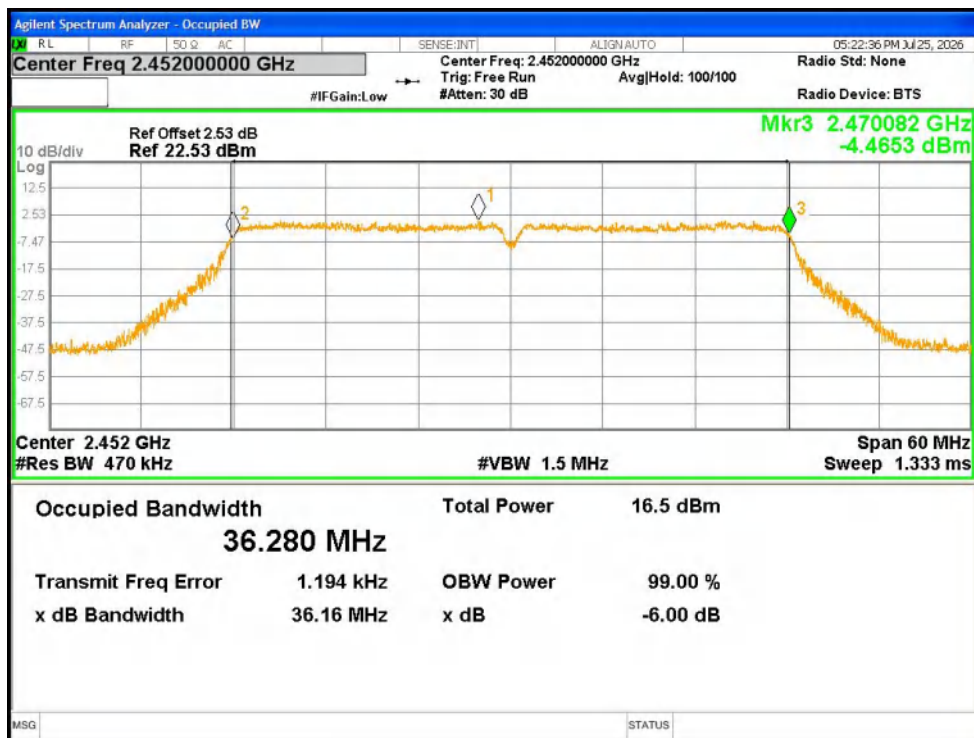
-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



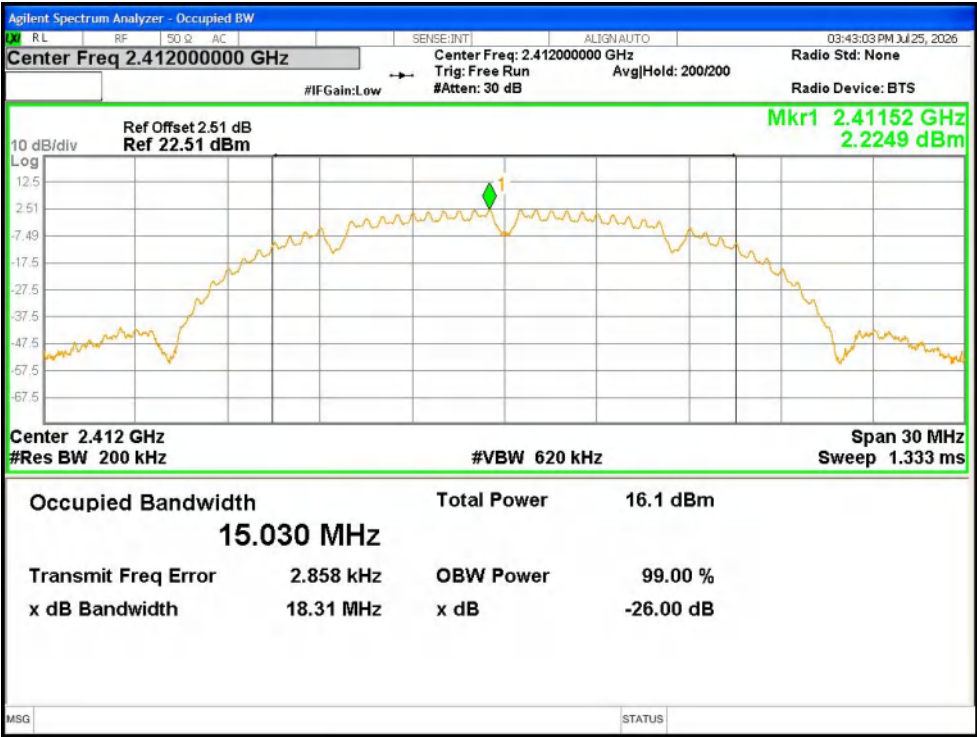
-6dB Bandwidth NVNT n40 2437MHz Ant1



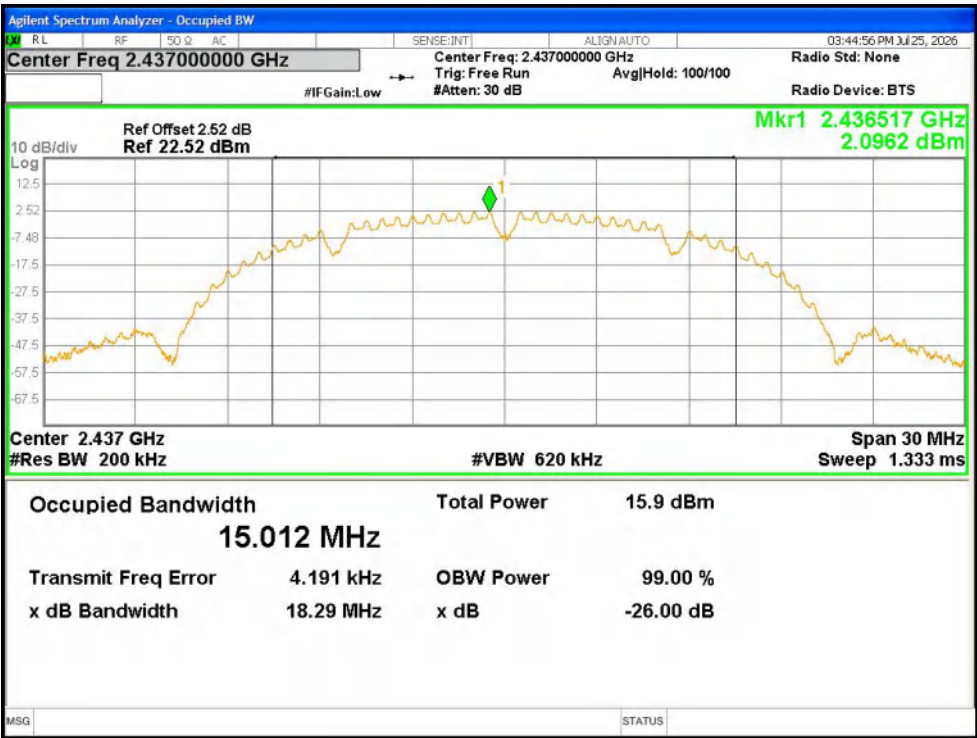
-6dB Bandwidth NVNT n40 2452MHz Ant1

4. Occupied Channel Bandwidth

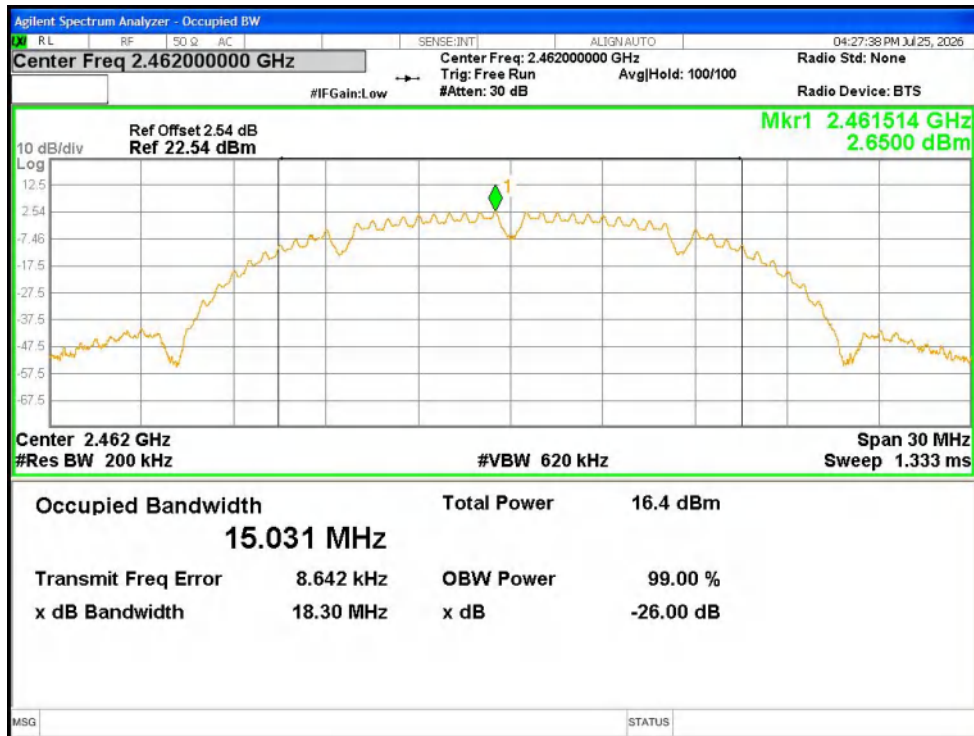
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.03
NVNT	b	2437	Ant1	15.012
NVNT	b	2462	Ant1	15.031
NVNT	g	2412	Ant1	16.535
NVNT	g	2437	Ant1	16.559
NVNT	g	2462	Ant1	16.558
NVNT	n20	2412	Ant1	17.688
NVNT	n20	2437	Ant1	17.704
NVNT	n20	2462	Ant1	17.7
NVNT	n40	2422	Ant1	36.276
NVNT	n40	2437	Ant1	36.246
NVNT	n40	2452	Ant1	36.285



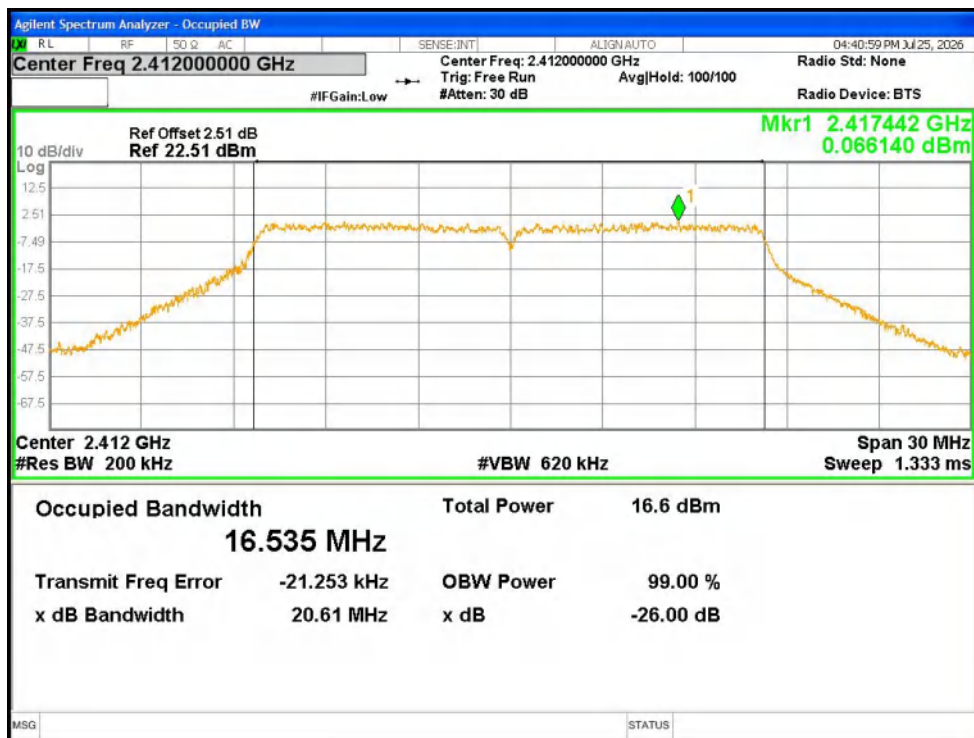
OBW NVNT b 2412MHz Ant1



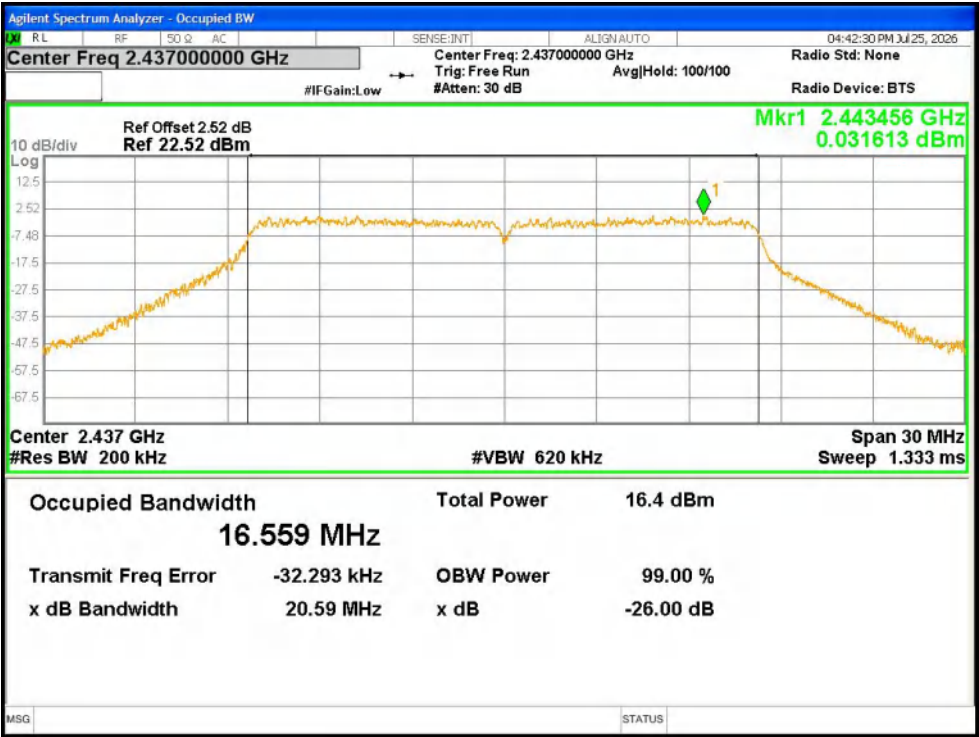
OBW NVNT b 2437MHz Ant1



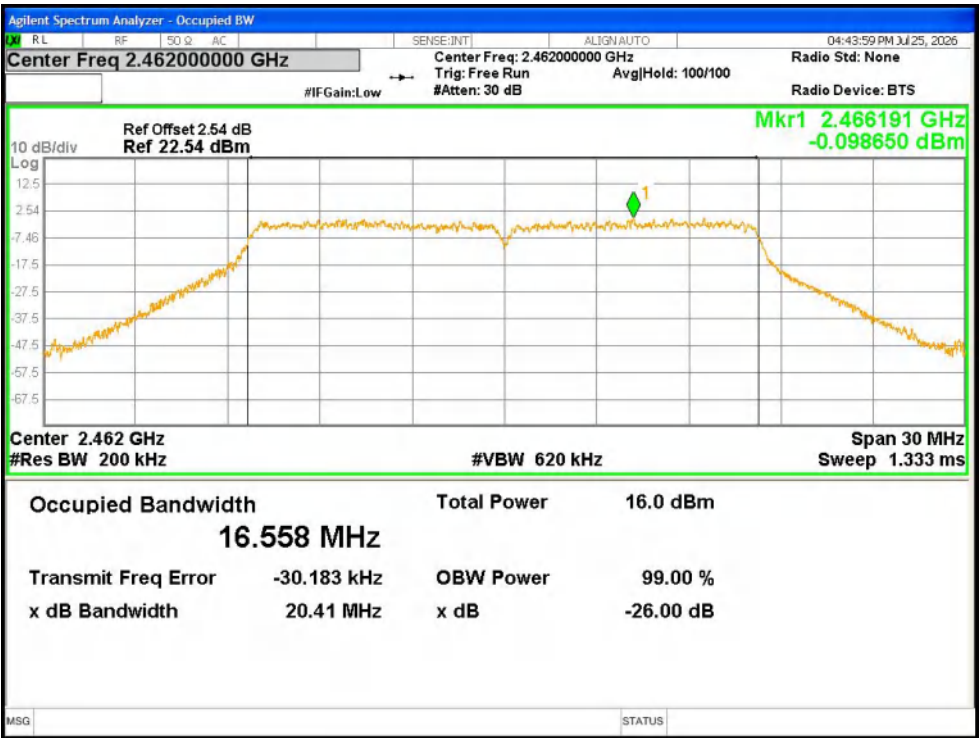
OBW NVNT b 2462MHz Ant1



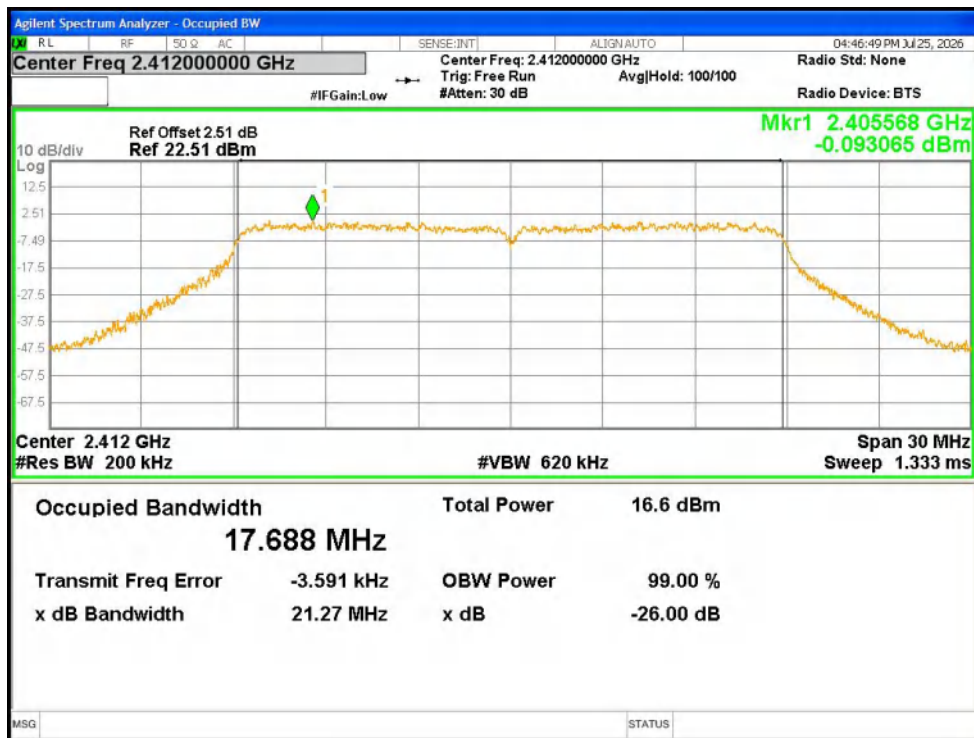
OBW NVNT g 2412MHz Ant1



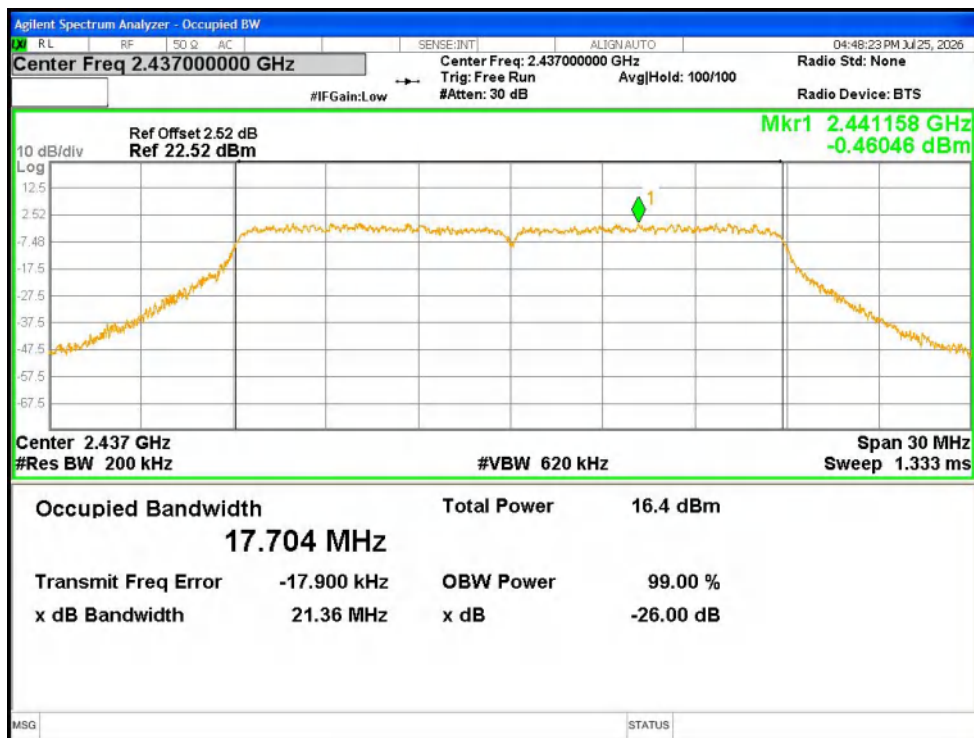
OBW NVNT g 2437MHz Ant1



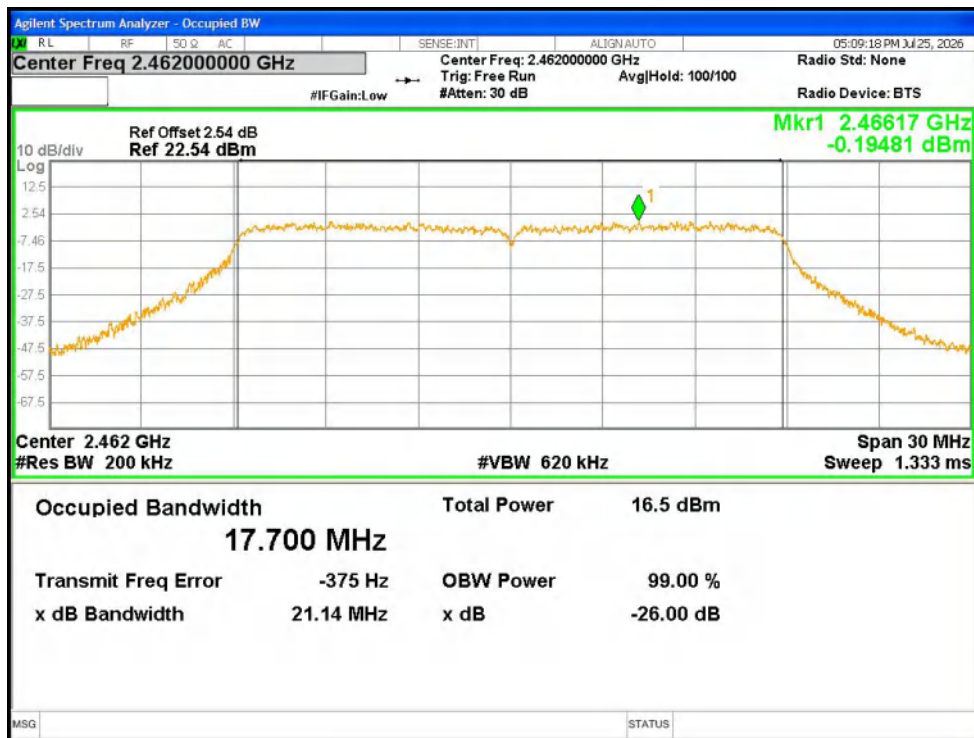
OBW NVNT g 2462MHz Ant1



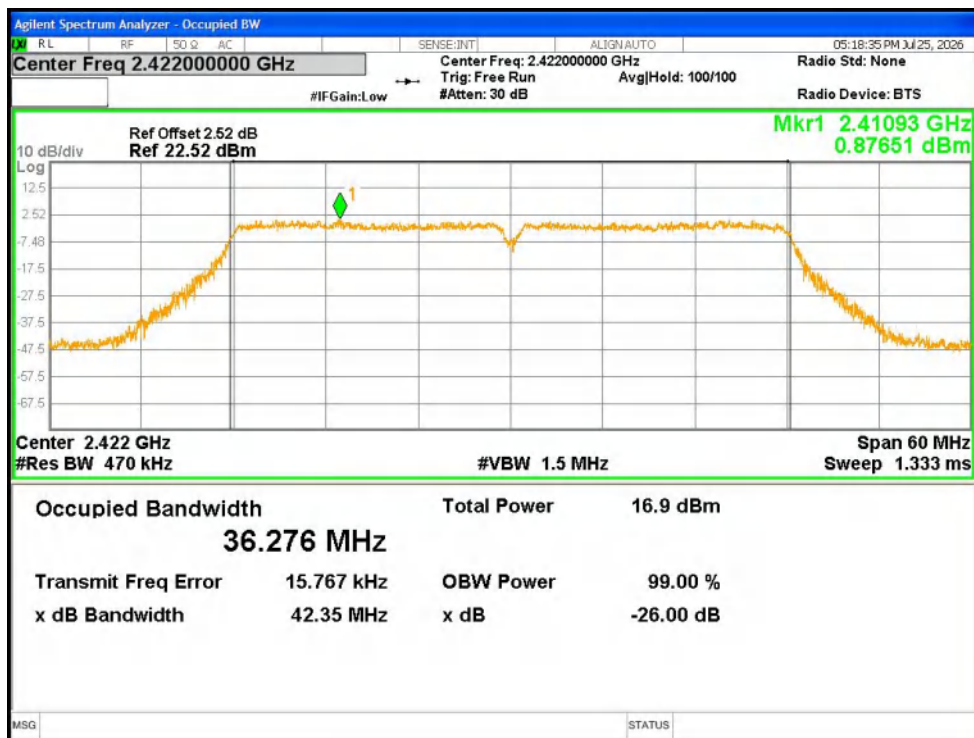
OBW NVNT n20 2412MHz Ant1



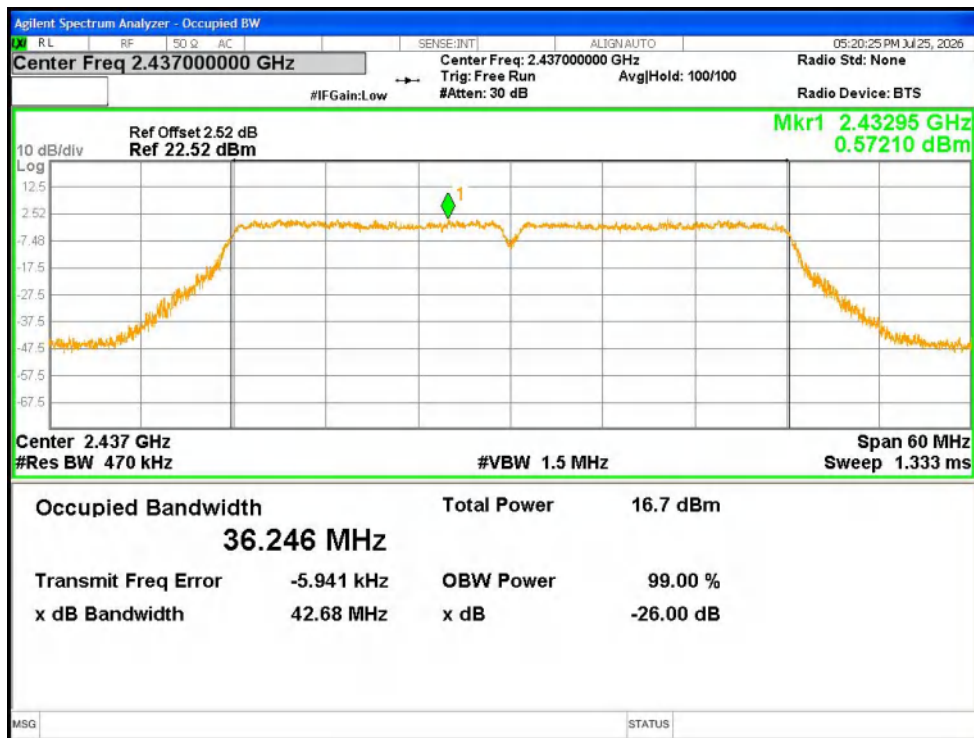
OBW NVNT n20 2437MHz Ant1



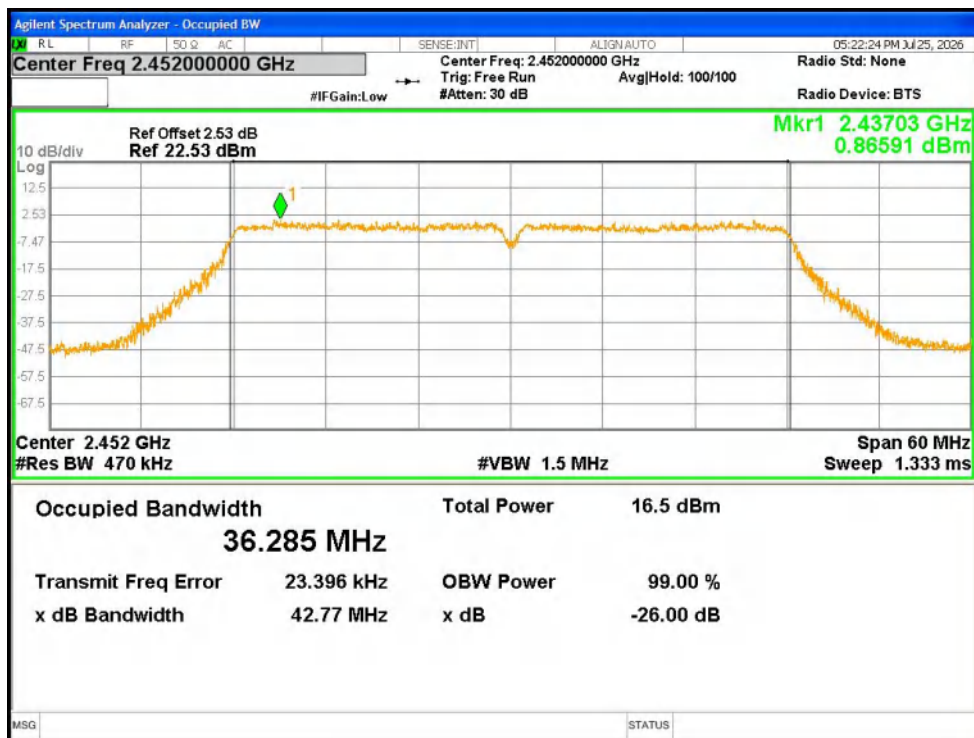
OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



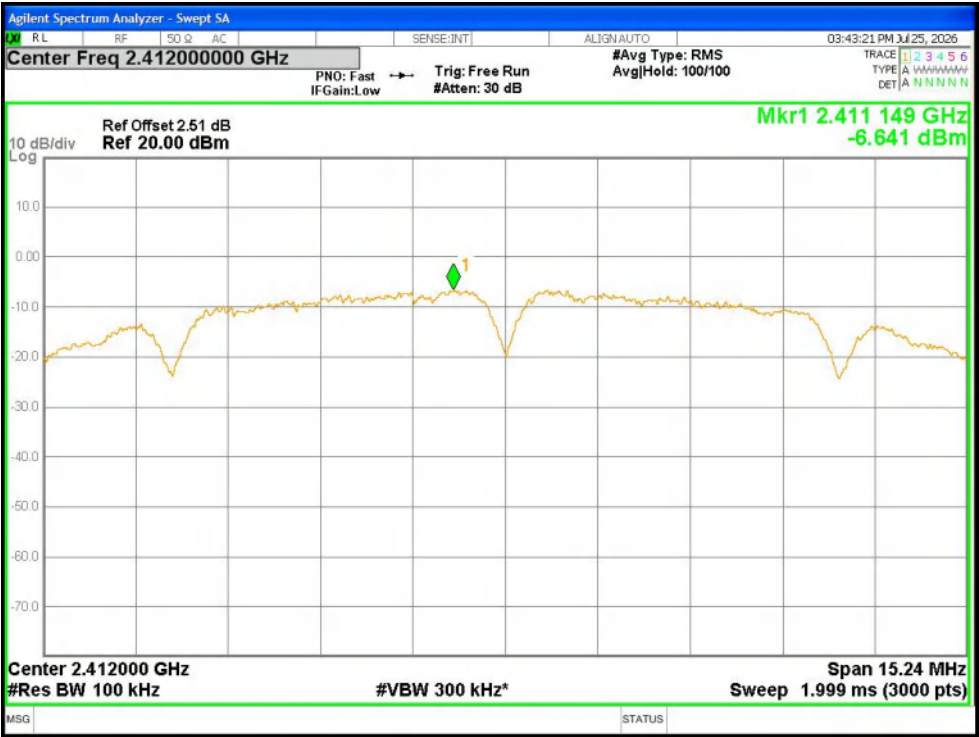
OBW NVNT n40 2437MHz Ant1



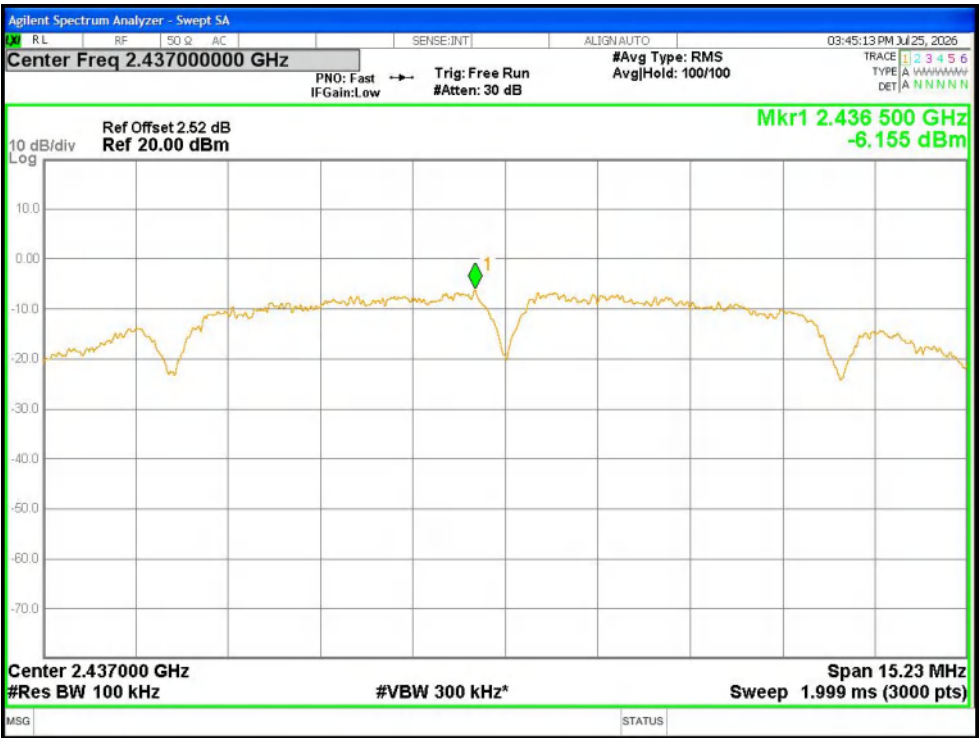
OBW NVNT n40 2452MHz Ant1

5. Maximum Power Spectral Density Level

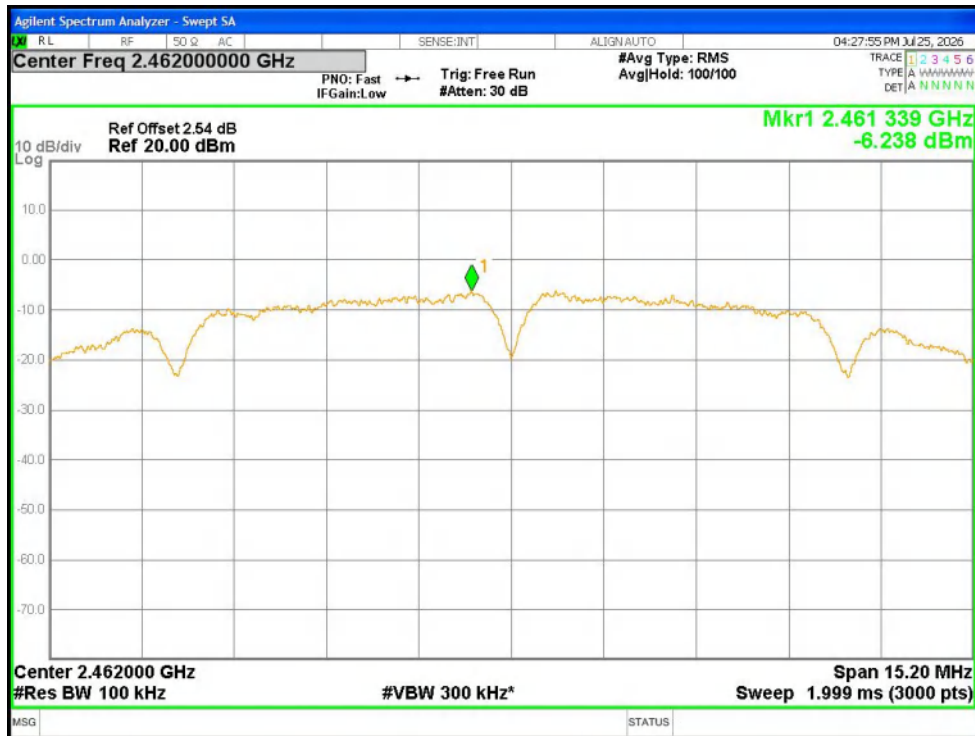
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.64	8	Pass
NVNT	b	2437	Ant1	-6.16	8	Pass
NVNT	b	2462	Ant1	-6.24	8	Pass
NVNT	g	2412	Ant1	-8.62	8	Pass
NVNT	g	2437	Ant1	-8.73	8	Pass
NVNT	g	2462	Ant1	-8.86	8	Pass
NVNT	n20	2412	Ant1	-8.61	8	Pass
NVNT	n20	2437	Ant1	-9.16	8	Pass
NVNT	n20	2462	Ant1	-9.27	8	Pass
NVNT	n40	2422	Ant1	-11.89	8	Pass
NVNT	n40	2437	Ant1	-12.15	8	Pass
NVNT	n40	2452	Ant1	-12.09	8	Pass



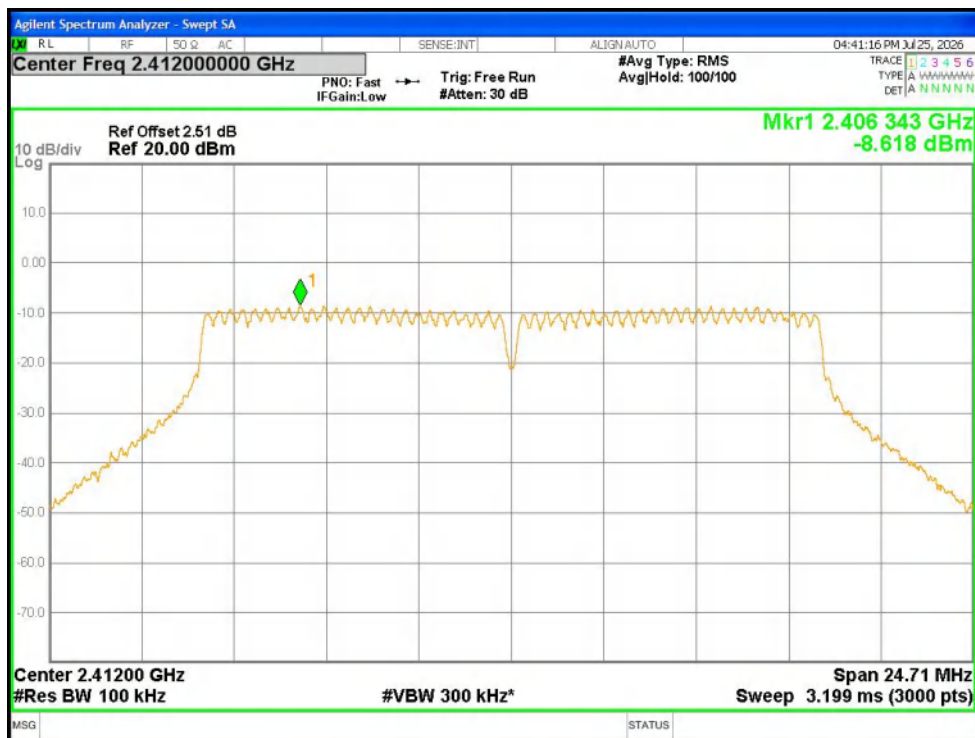
PSD NVNT b 2412MHz Ant1



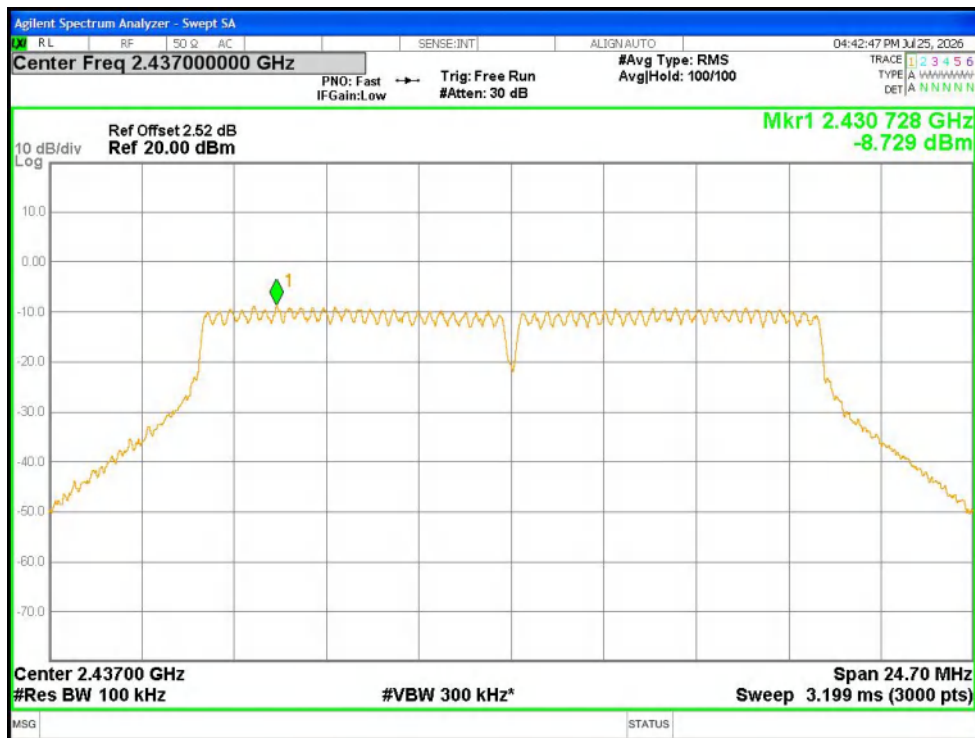
PSD NVNT b 2437MHz Ant1



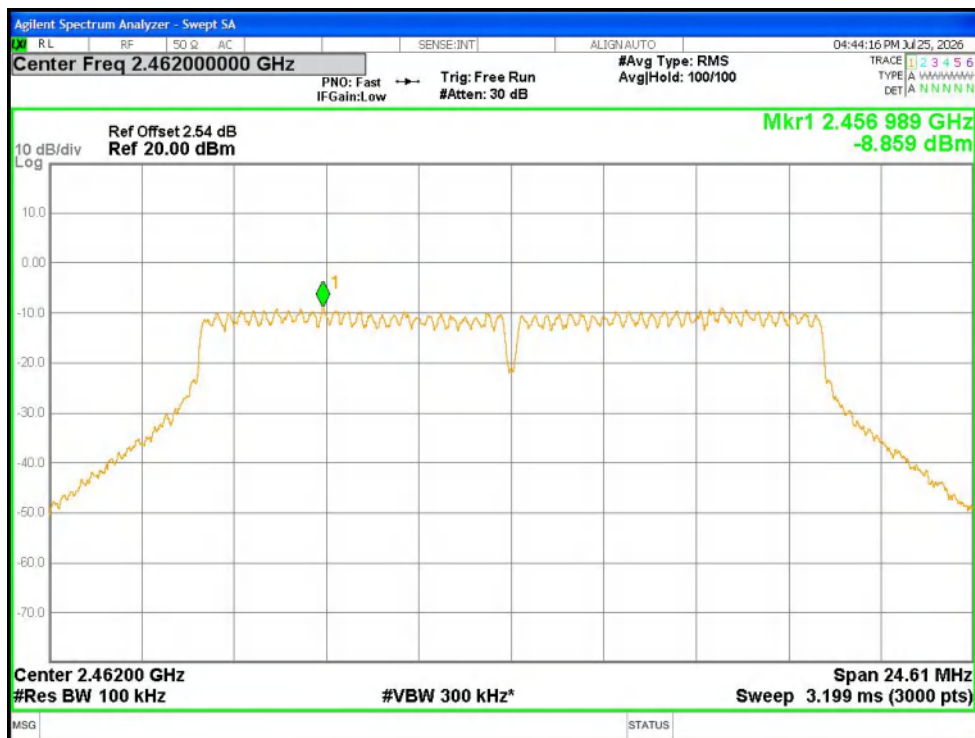
PSD NVNT b 2462MHz Ant1



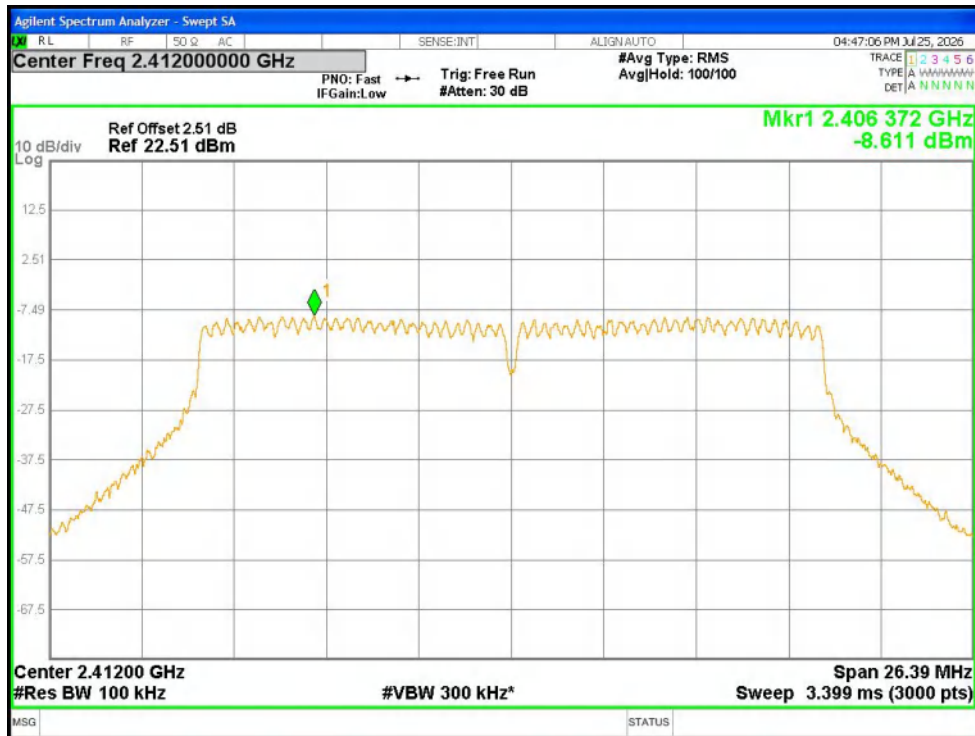
PSD NVNT g 2412MHz Ant1



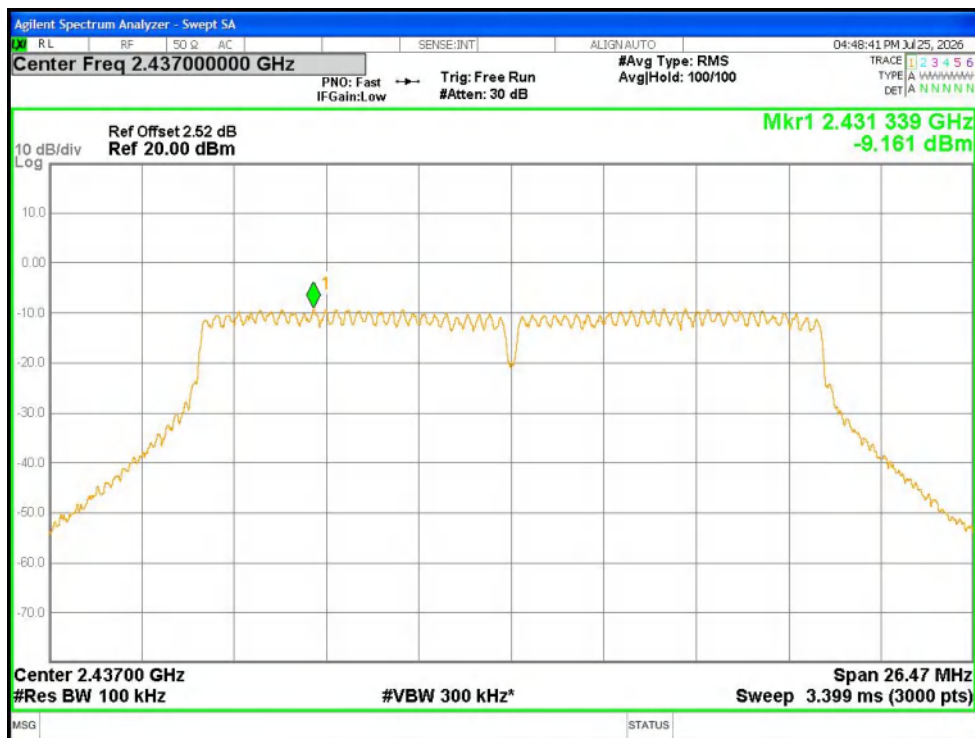
PSD NVNT g 2437MHz Ant1



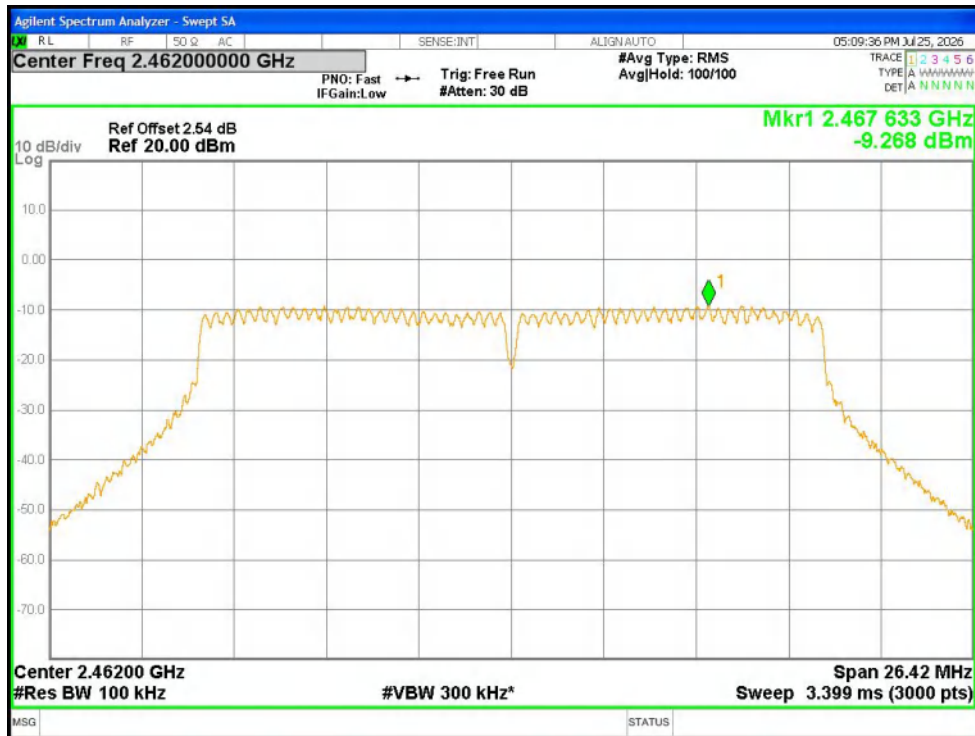
PSD NVNT g 2462MHz Ant1



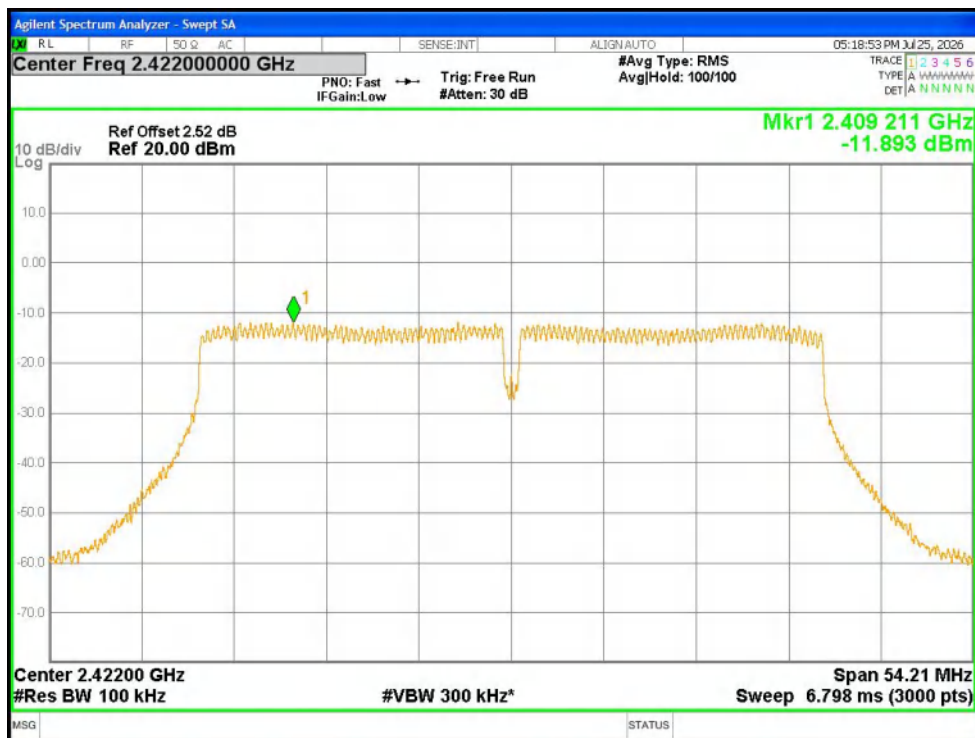
PSD NVNT n20 2412MHz Ant1



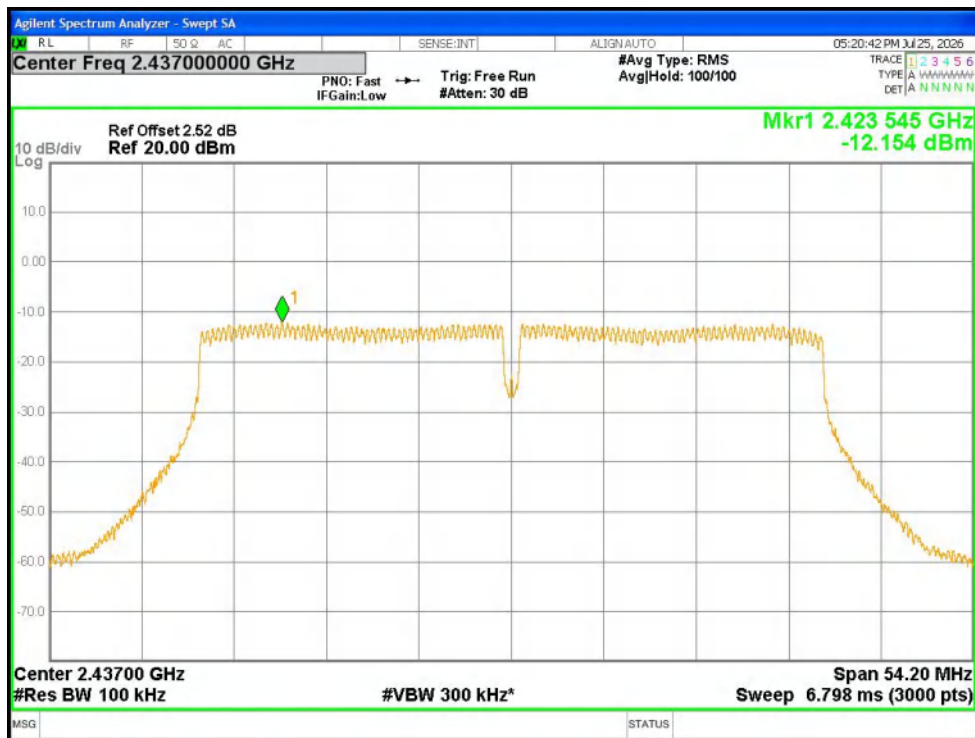
PSD NVNT n20 2437MHz Ant1



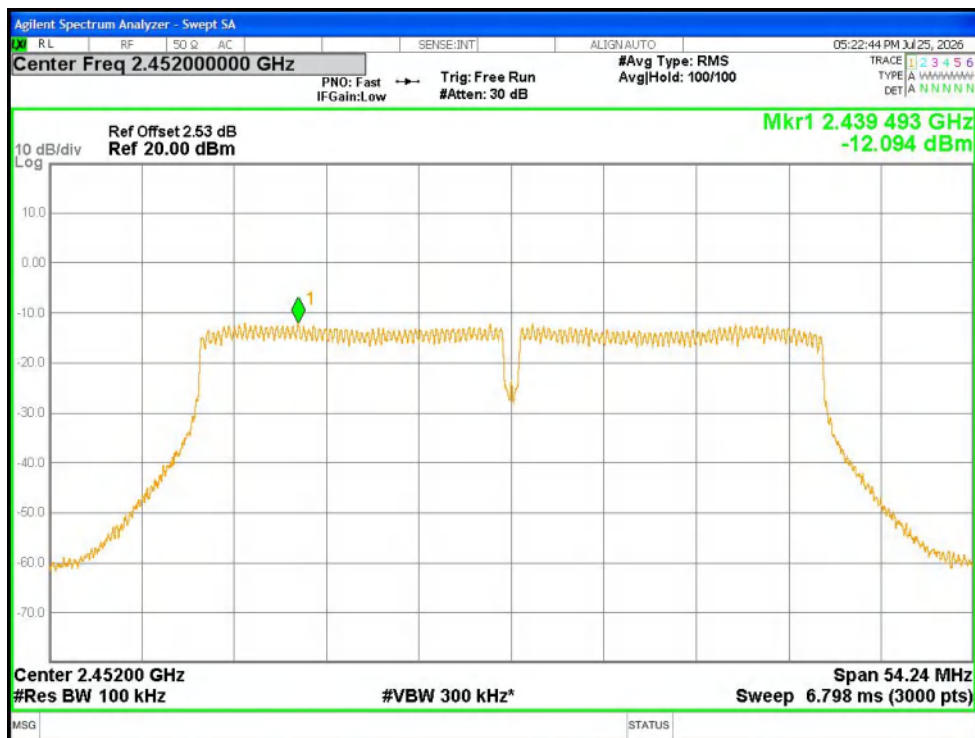
PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

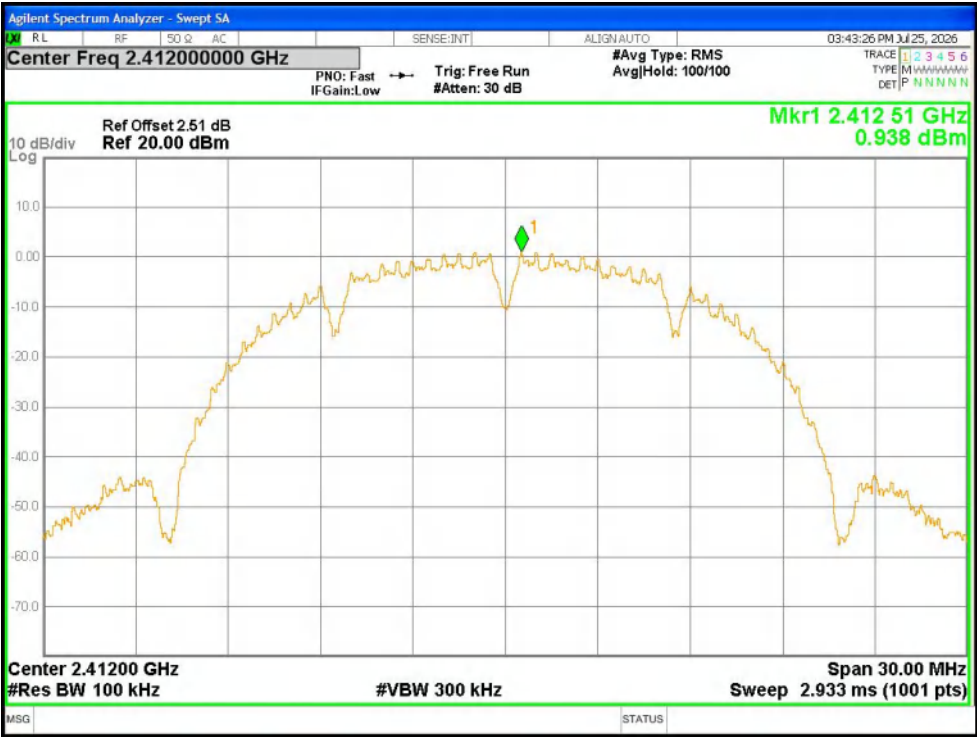


PSD NVNT n40 2452MHz Ant1

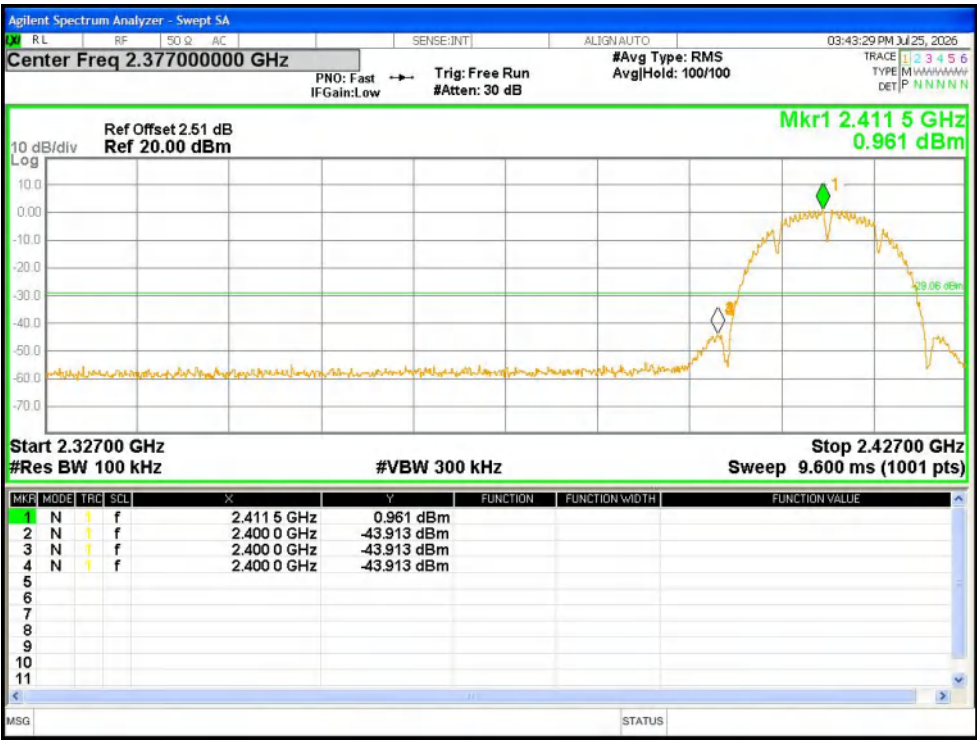
6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.85	-30	Pass
NVNT	b	2462	Ant1	-57.48	-30	Pass
NVNT	g	2412	Ant1	-37.45	-30	Pass
NVNT	g	2462	Ant1	-50.73	-30	Pass
NVNT	n20	2412	Ant1	-38.36	-30	Pass
NVNT	n20	2462	Ant1	-50.69	-30	Pass
NVNT	n40	2422	Ant1	-36.58	-30	Pass
NVNT	n40	2452	Ant1	-44.46	-30	Pass

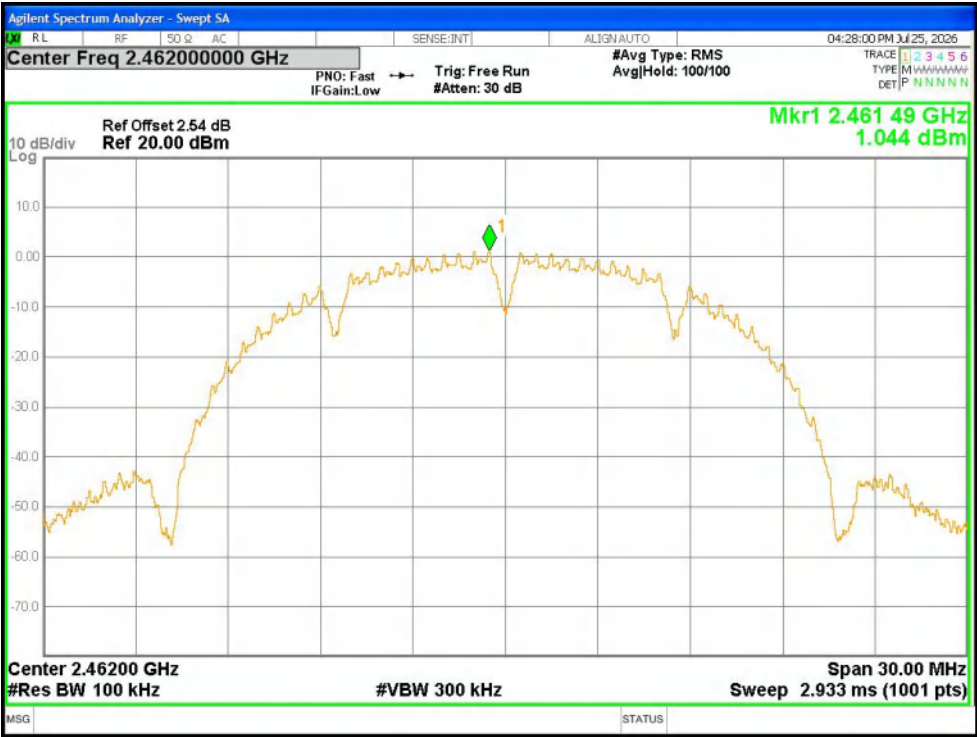
Note: Offse includes Cable Loss.



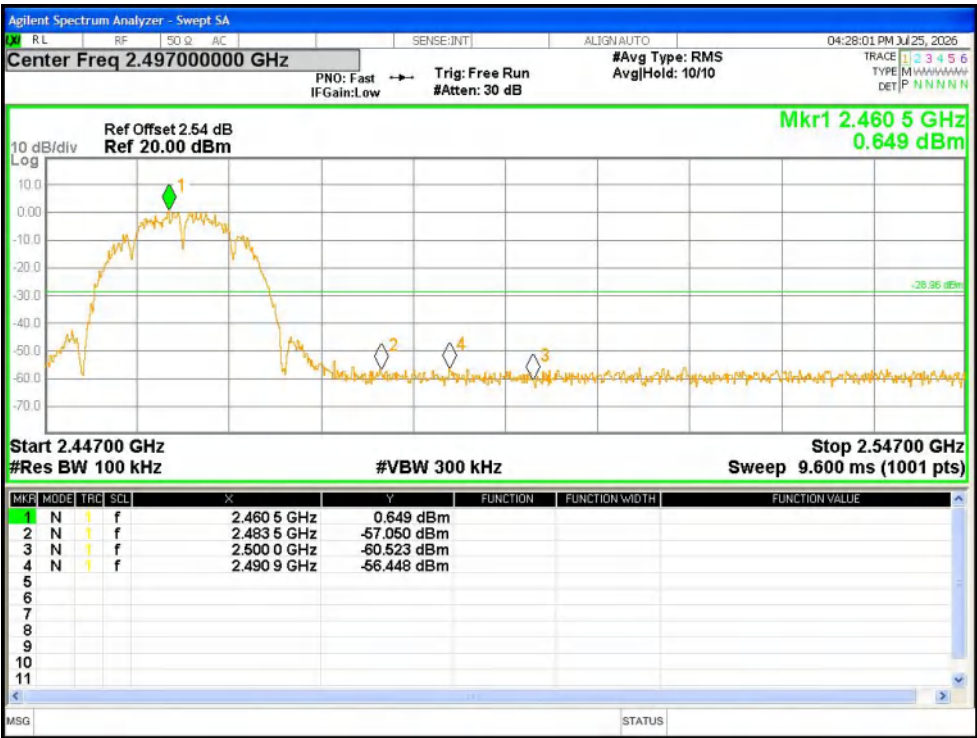
Band Edge NVNT b 2412MHz Ant1 Ref



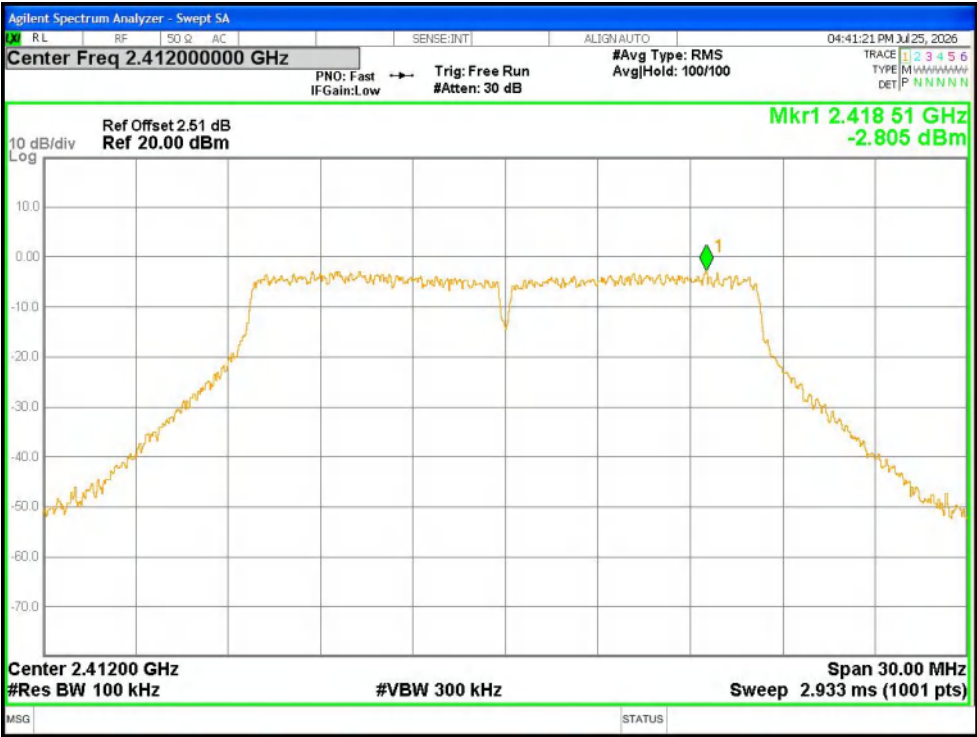
Band Edge NVNT b 2412MHz Ant1 Emission



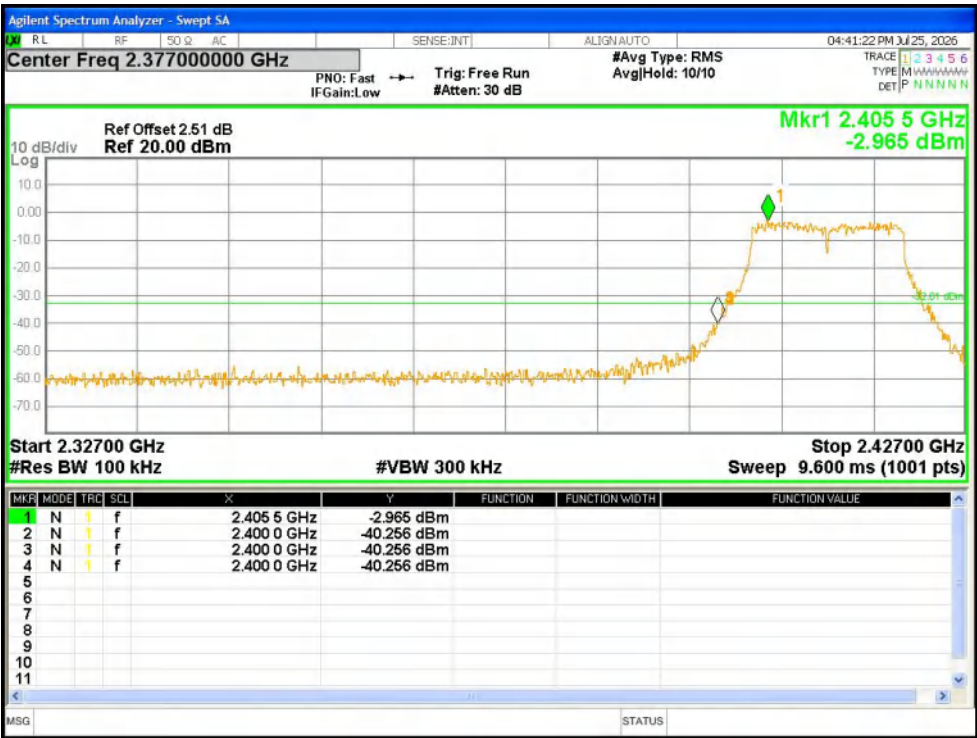
Band Edge NVNT b 2462MHz Ant1 Ref



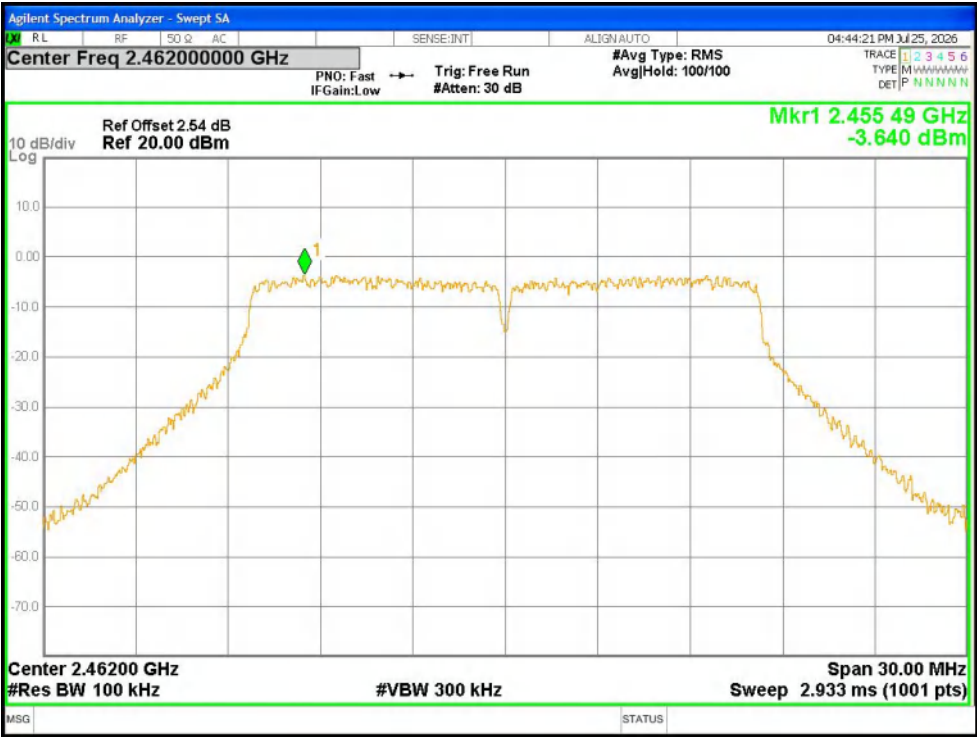
Band Edge NVNT b 2462MHz Ant1 Emission



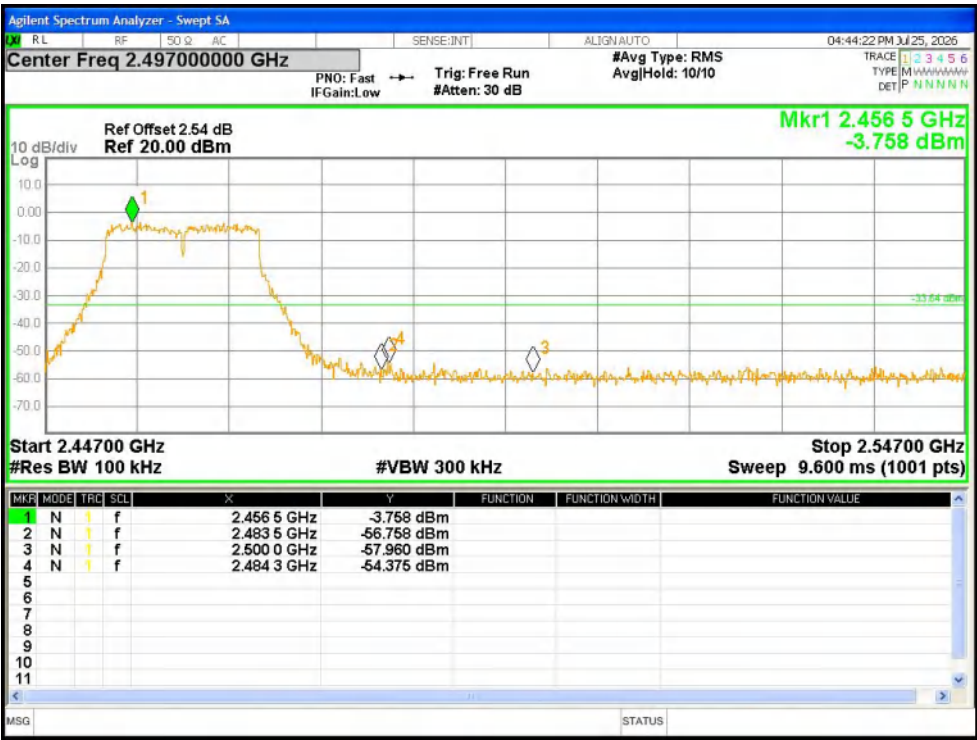
Band Edge NVNT g 2412MHz Ant1 Ref



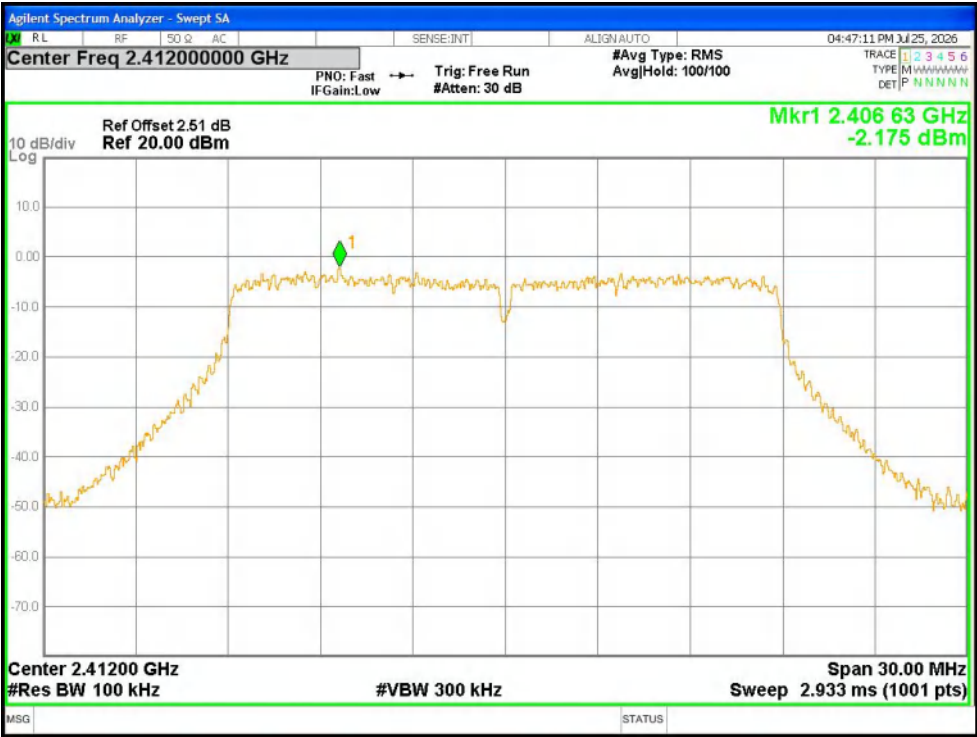
Band Edge NVNT g 2412MHz Ant1 Emission



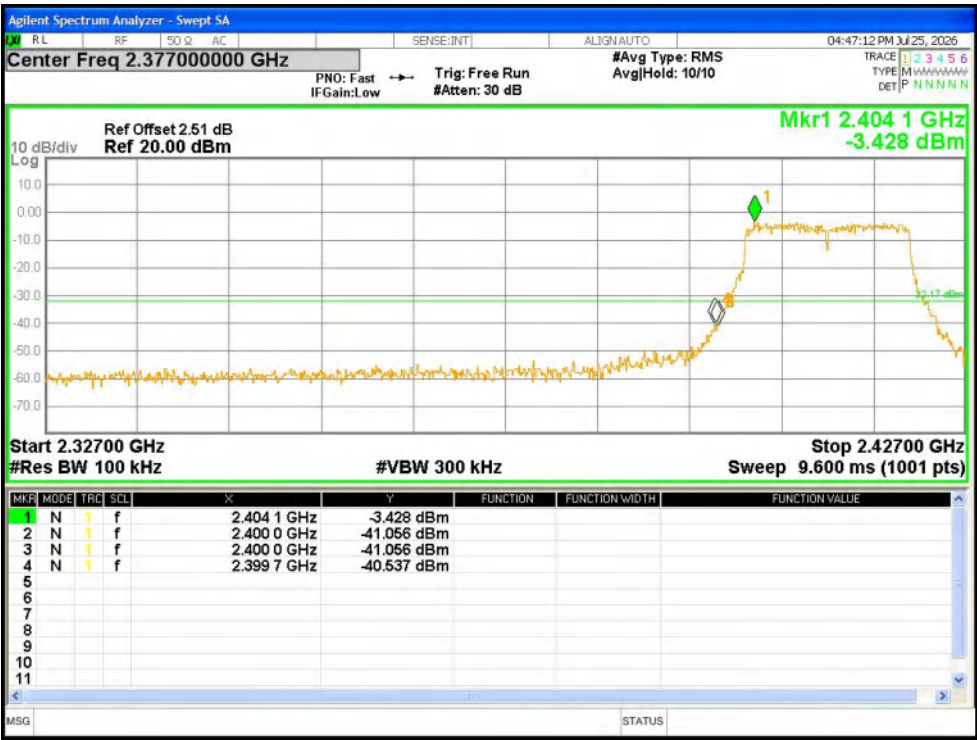
Band Edge NVNT g 2462MHz Ant1 Ref



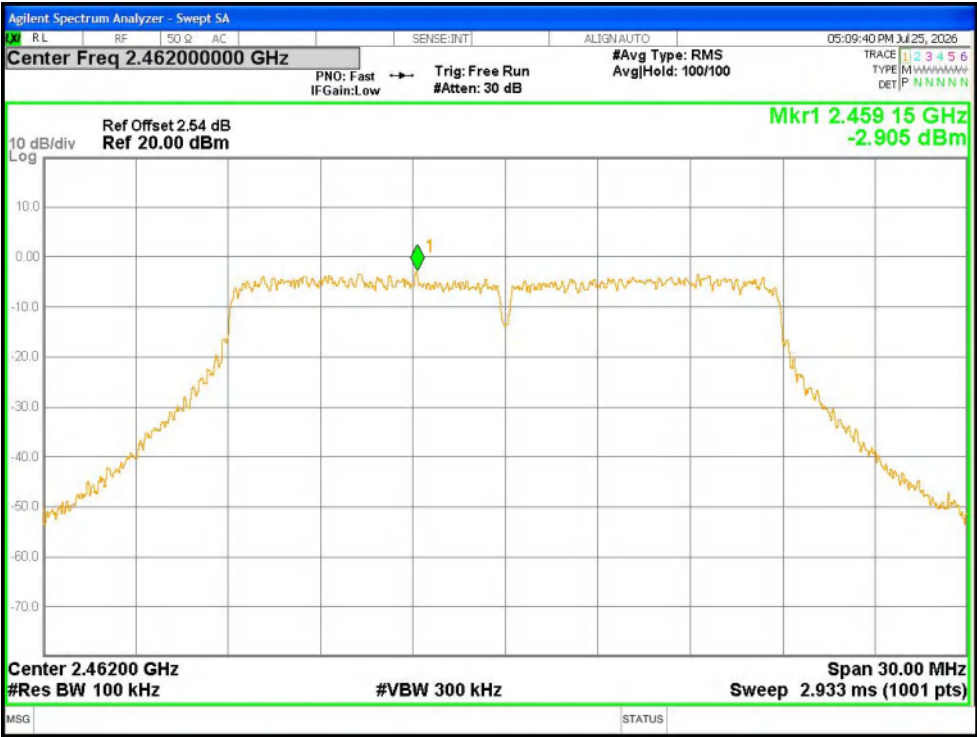
Band Edge NVNT g 2462MHz Ant1 Emission



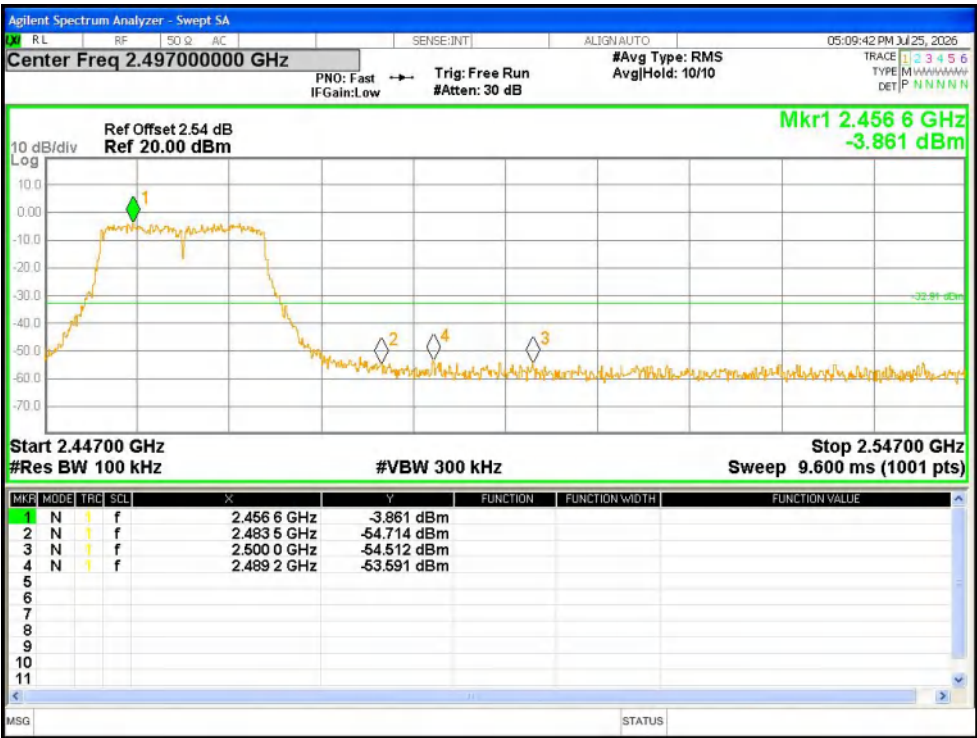
Band Edge NVNT n20 2412MHz Ant1 Ref



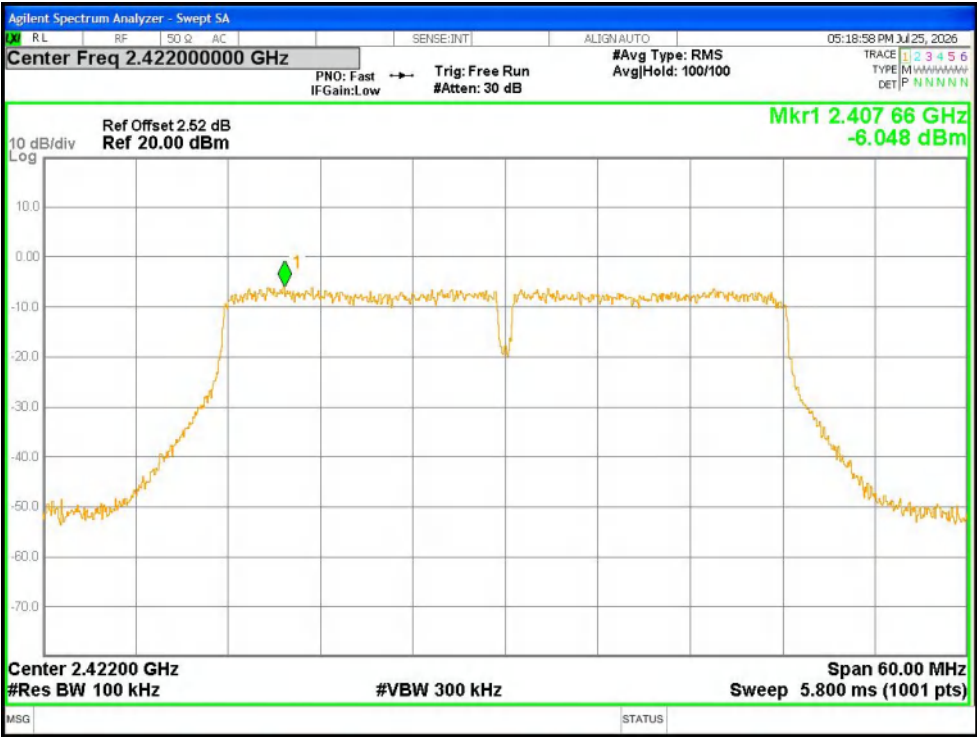
Band Edge NVNT n20 2412MHz Ant1 Emission



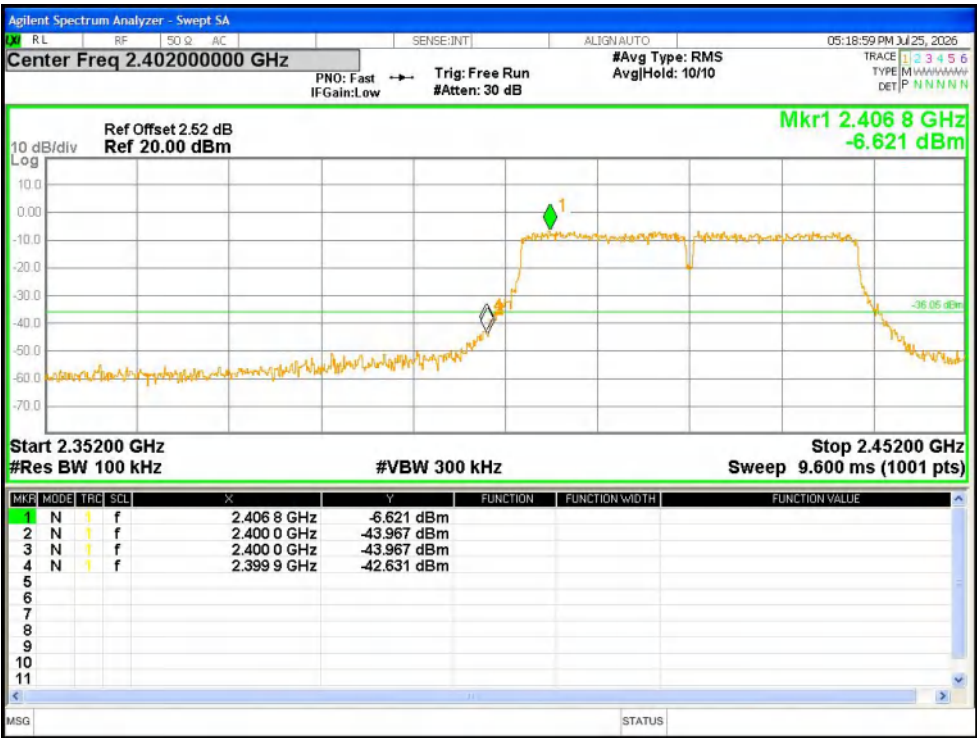
Band Edge NVNT n20 2462MHz Ant1 Ref



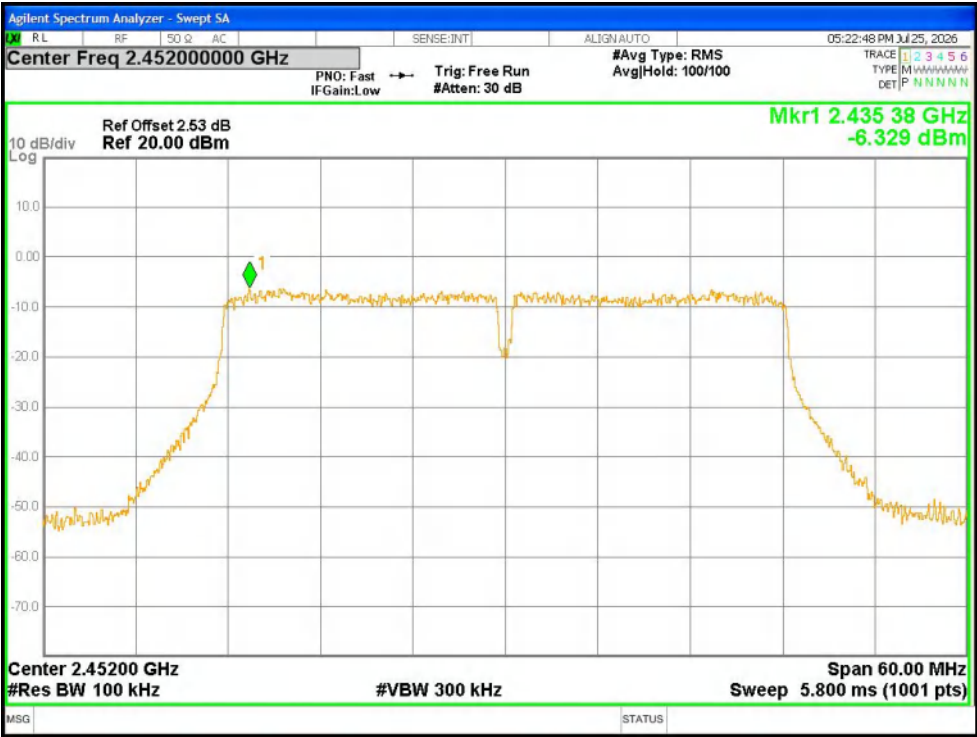
Band Edge NVNT n20 2462MHz Ant1 Emission



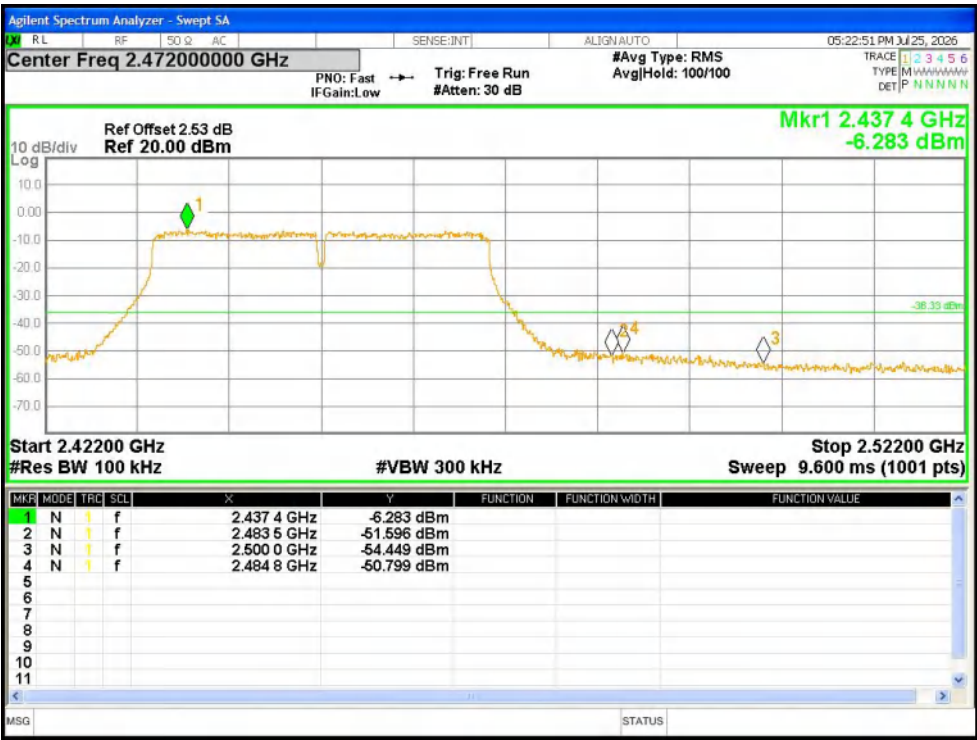
Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref

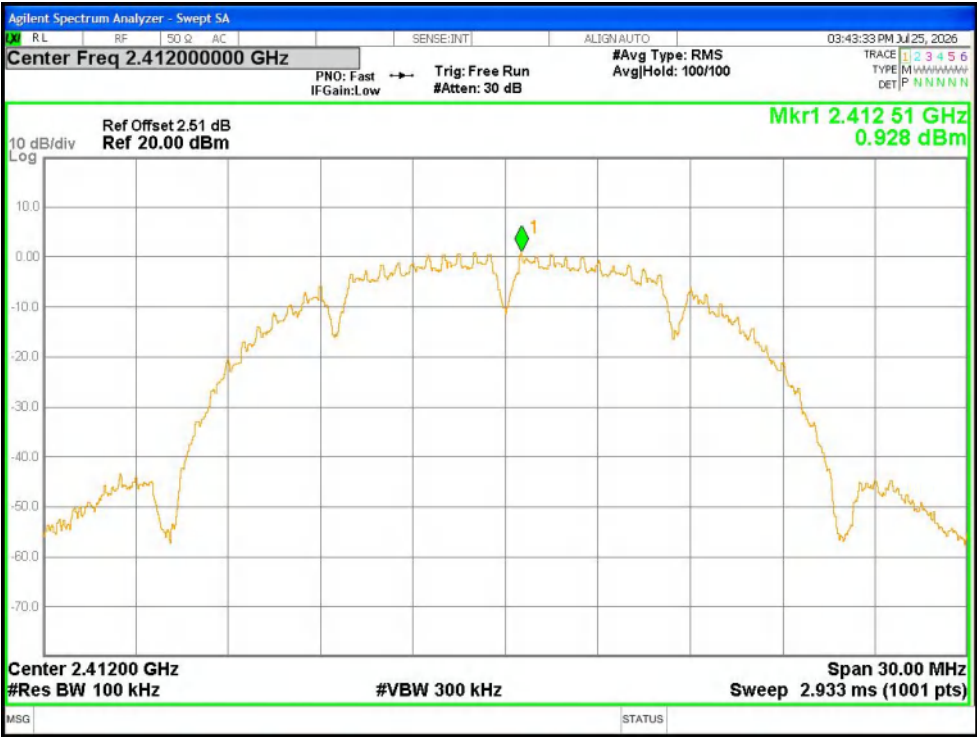


Band Edge NVNT n40 2452MHz Ant1 Emission

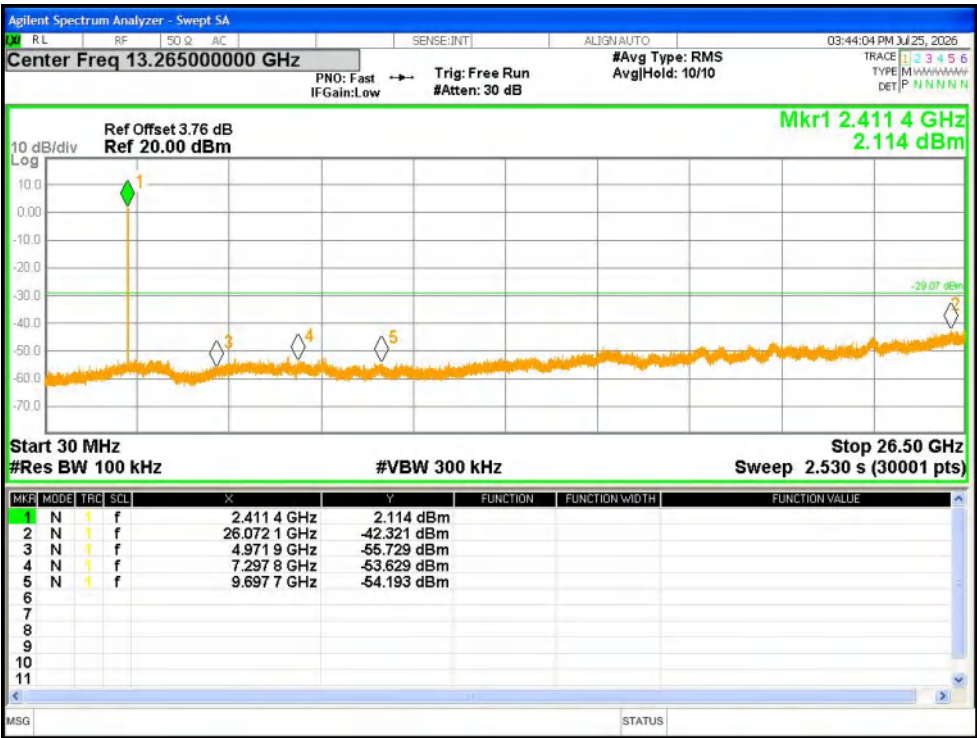
7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.25	-30	Pass
NVNT	b	2437	Ant1	-42.46	-30	Pass
NVNT	b	2462	Ant1	-42.82	-30	Pass
NVNT	g	2412	Ant1	-38.57	-30	Pass
NVNT	g	2437	Ant1	-39.83	-30	Pass
NVNT	g	2462	Ant1	-39.15	-30	Pass
NVNT	n20	2412	Ant1	-39.43	-30	Pass
NVNT	n20	2437	Ant1	-39.2	-30	Pass
NVNT	n20	2462	Ant1	-37.11	-30	Pass
NVNT	n40	2422	Ant1	-36.46	-30	Pass
NVNT	n40	2437	Ant1	-35.38	-30	Pass
NVNT	n40	2452	Ant1	-35.84	-30	Pass

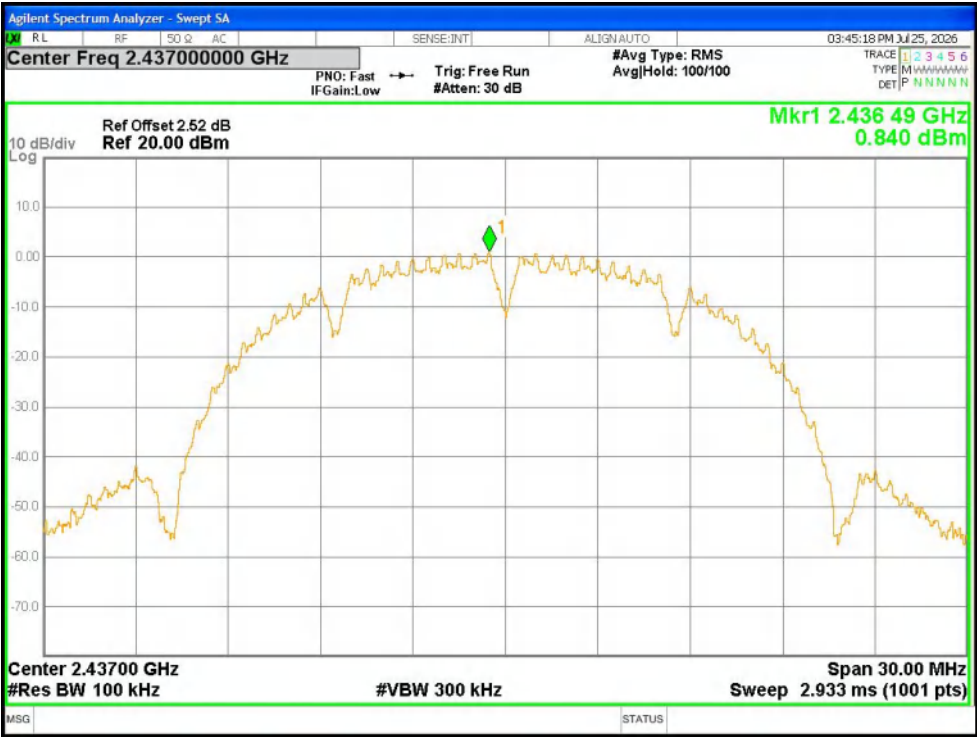
Note: Offse includes Cable Loss.



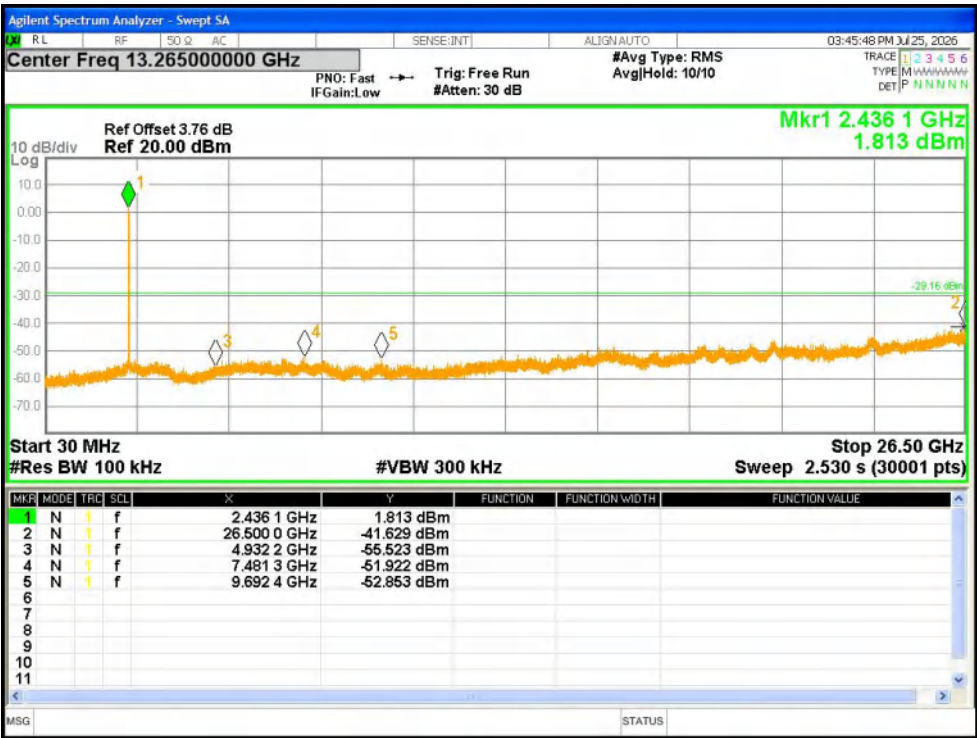
Tx. Spurious NVNT b 2412MHz Ant1 Ref



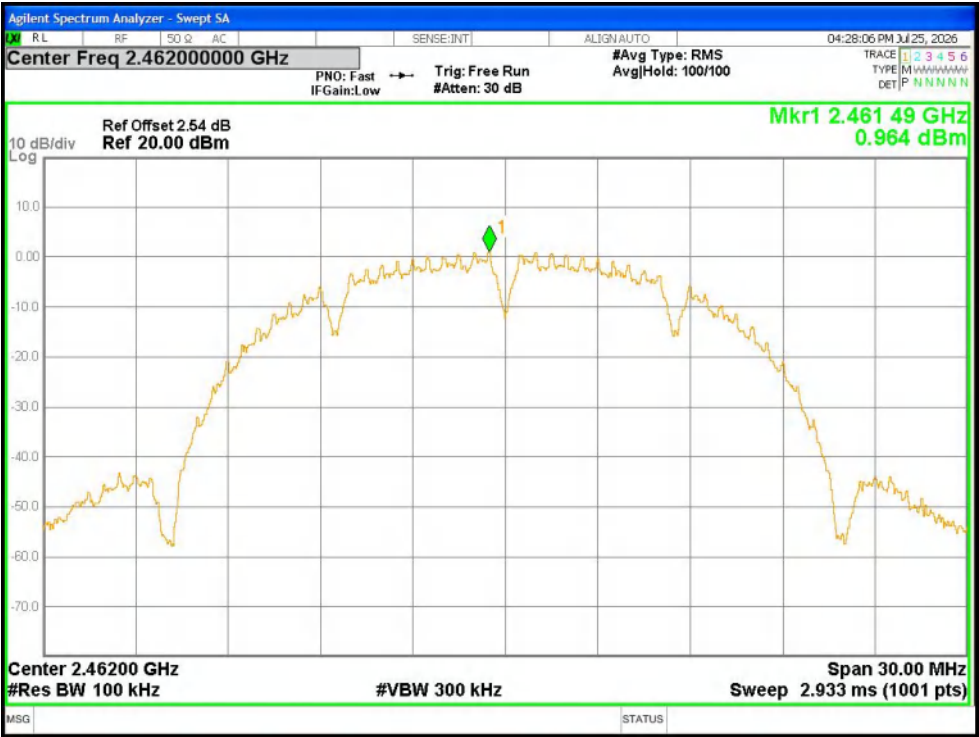
Tx. Spurious NVNT b 2412MHz Ant1 Emission



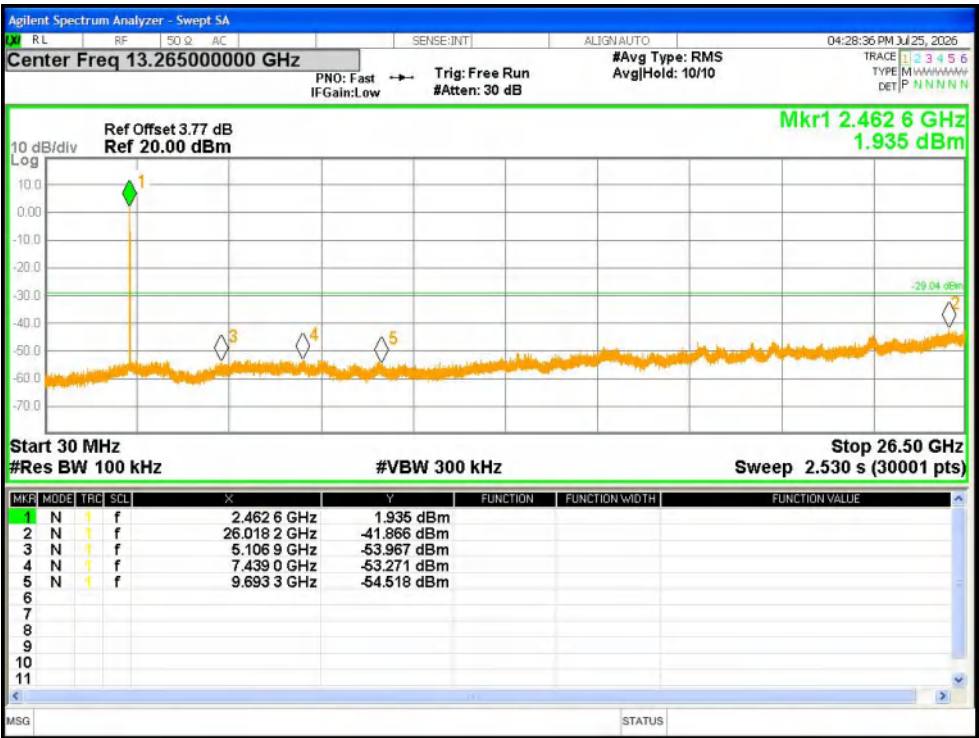
Tx. Spurious NVNT b 2437MHz Ant1 Ref



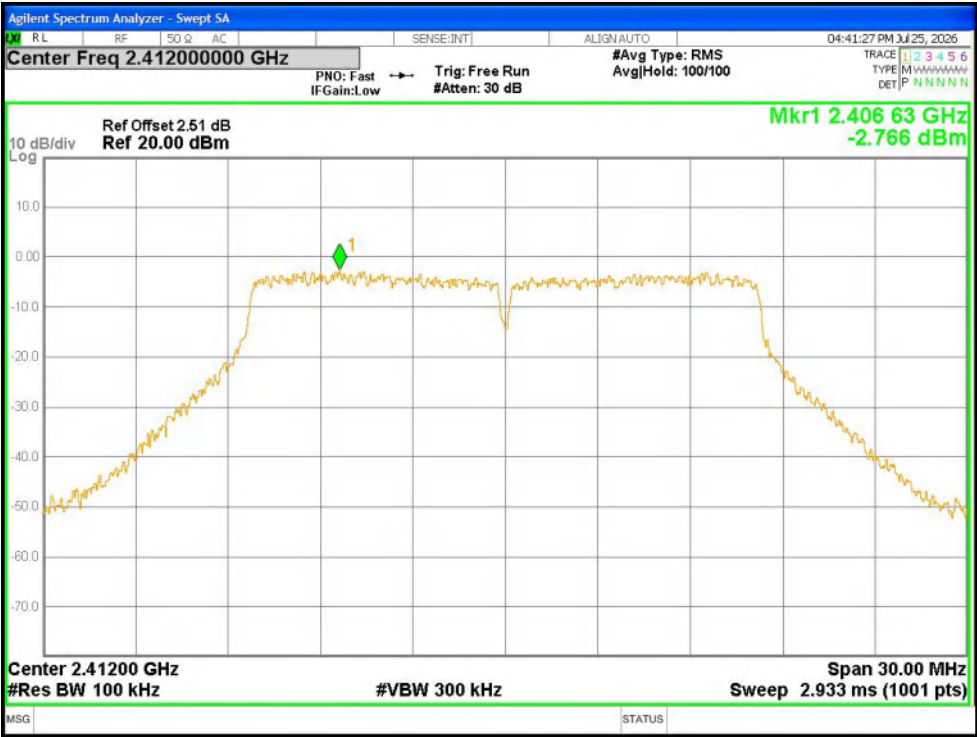
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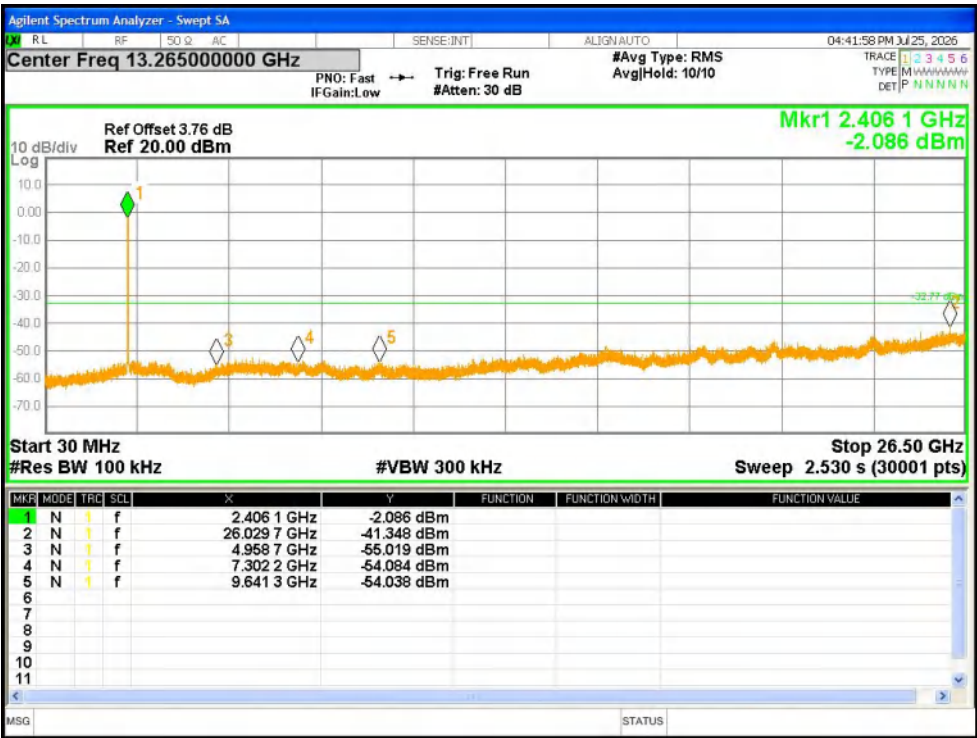
Tx. Spurious NVNT b 2462MHz Ant1 Ref



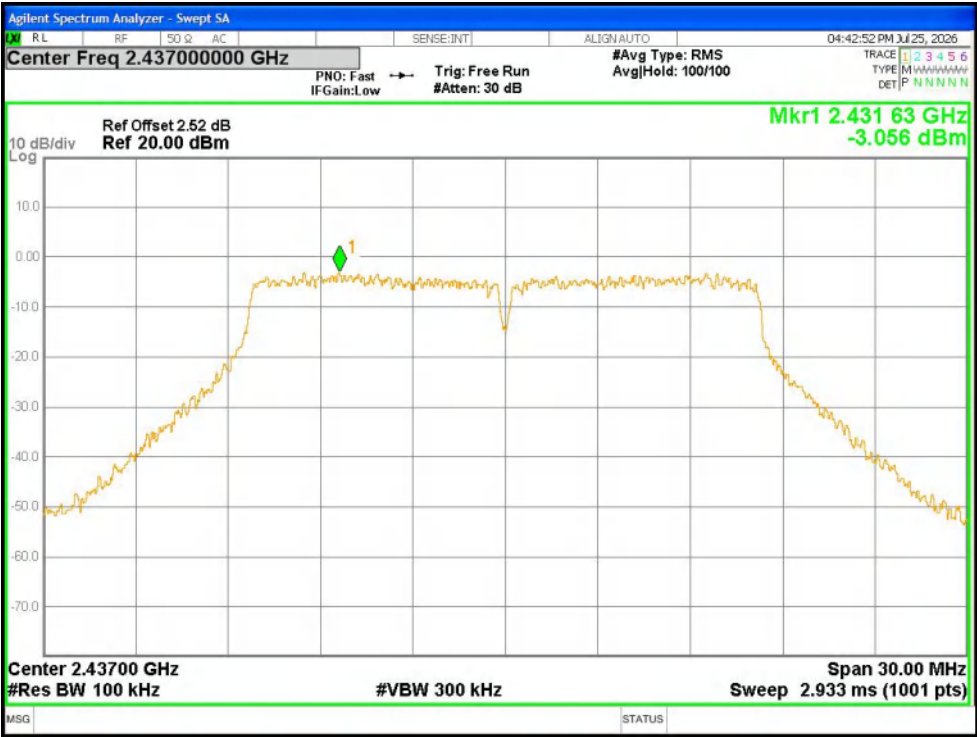
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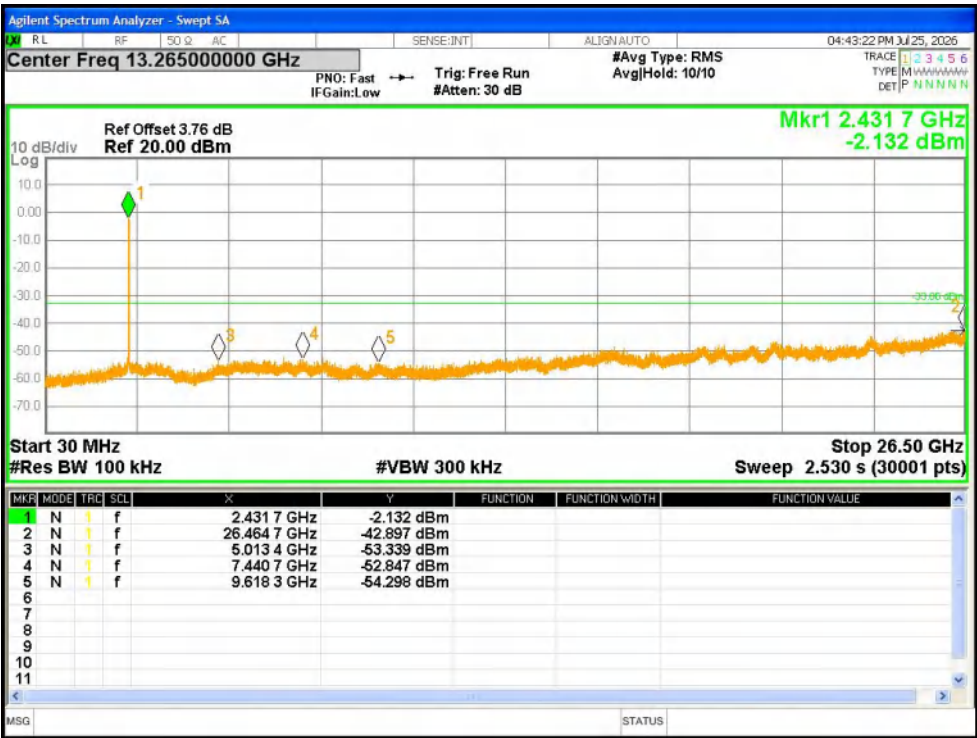
Tx. Spurious NVNT g 2412MHz Ant1 Ref



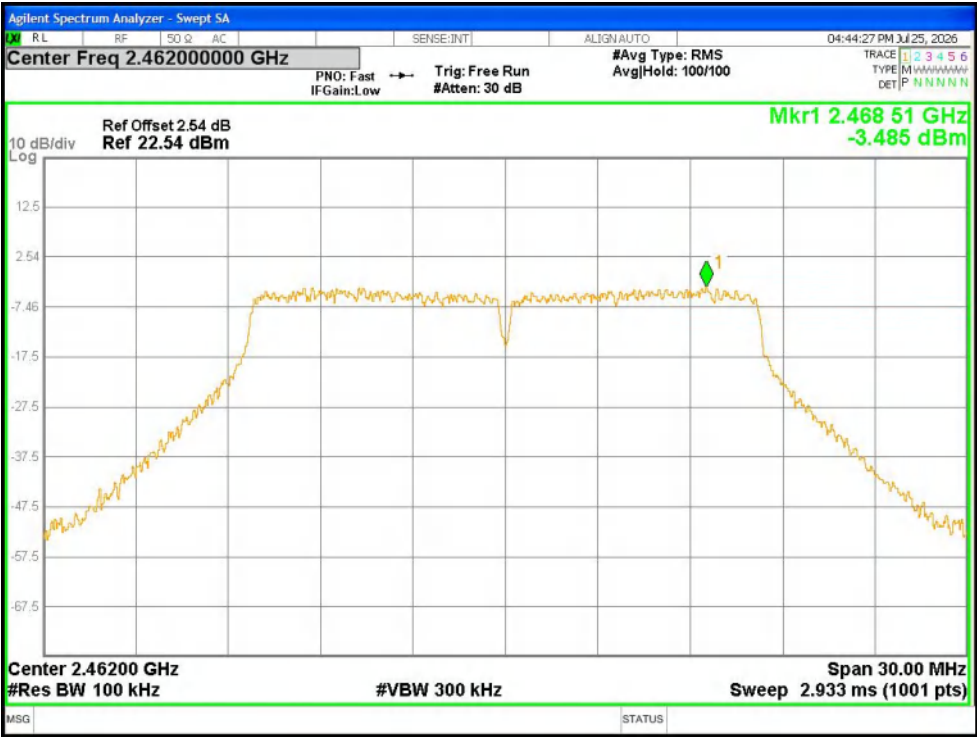
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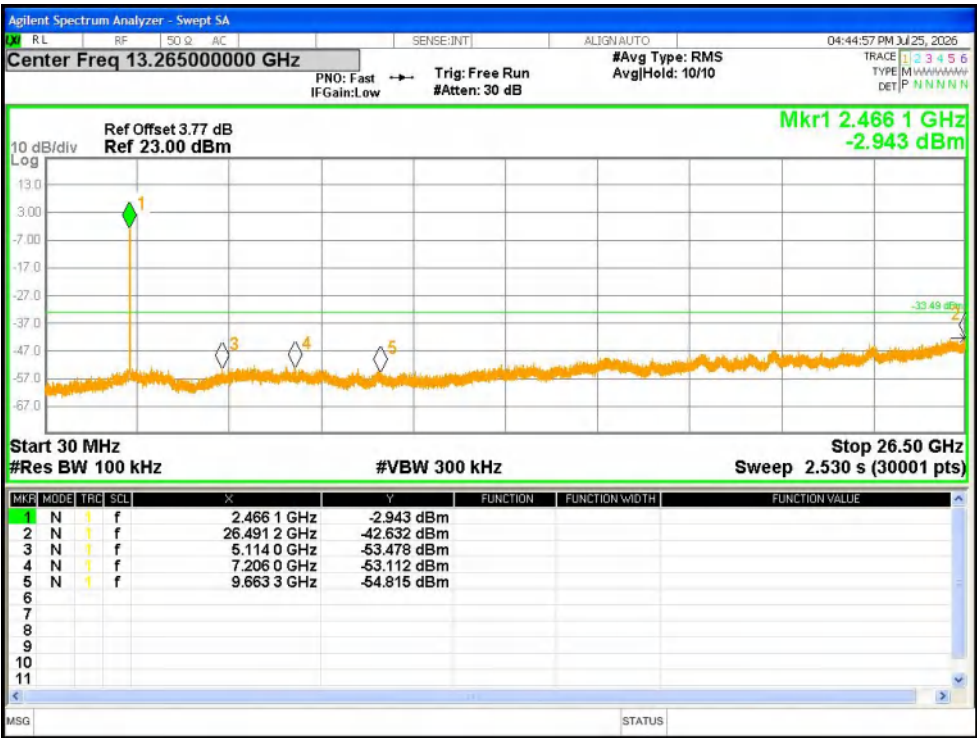
Tx. Spurious NVNT g 2437MHz Ant1 Ref



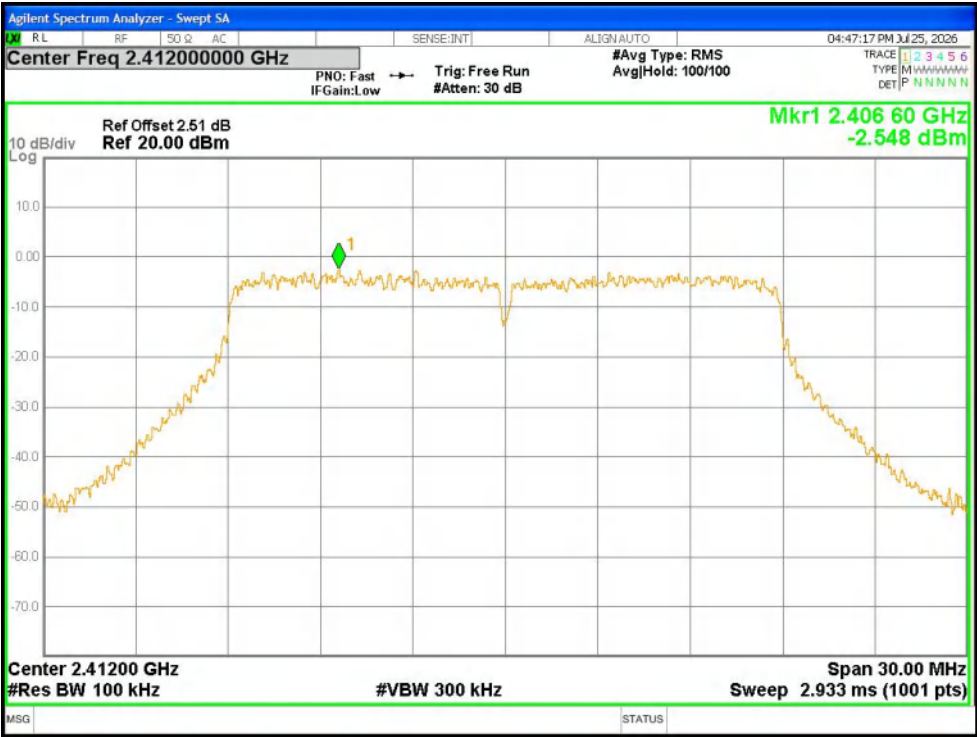
Tx. Spurious NVNT g 2437MHz Ant1 Emission



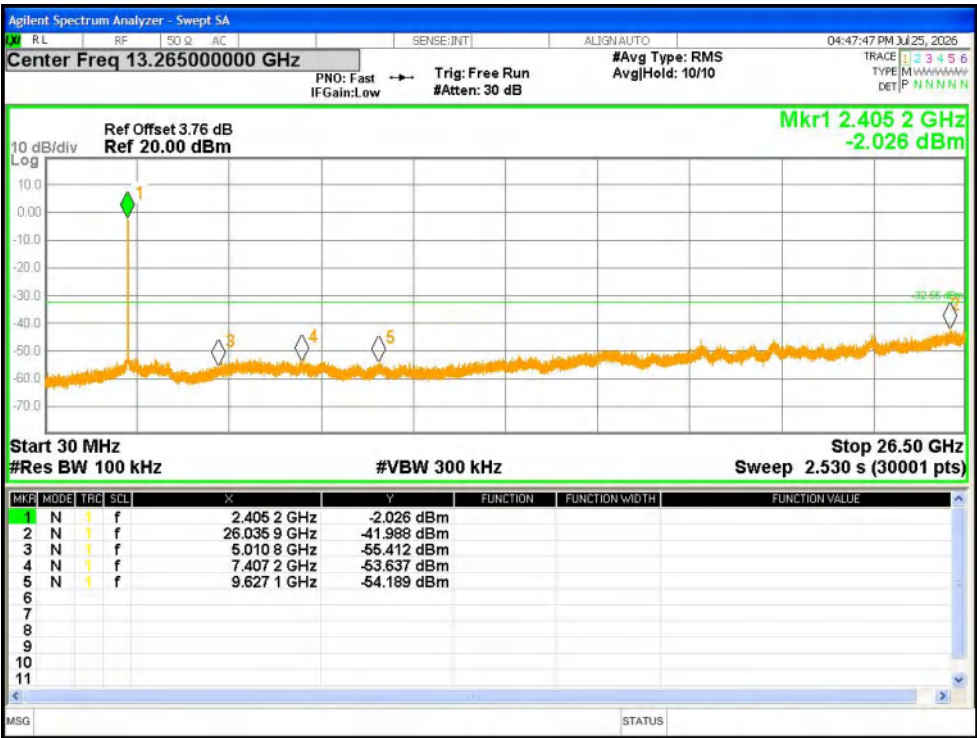
Tx. Spurious NVNT g 2462MHz Ant1 Ref



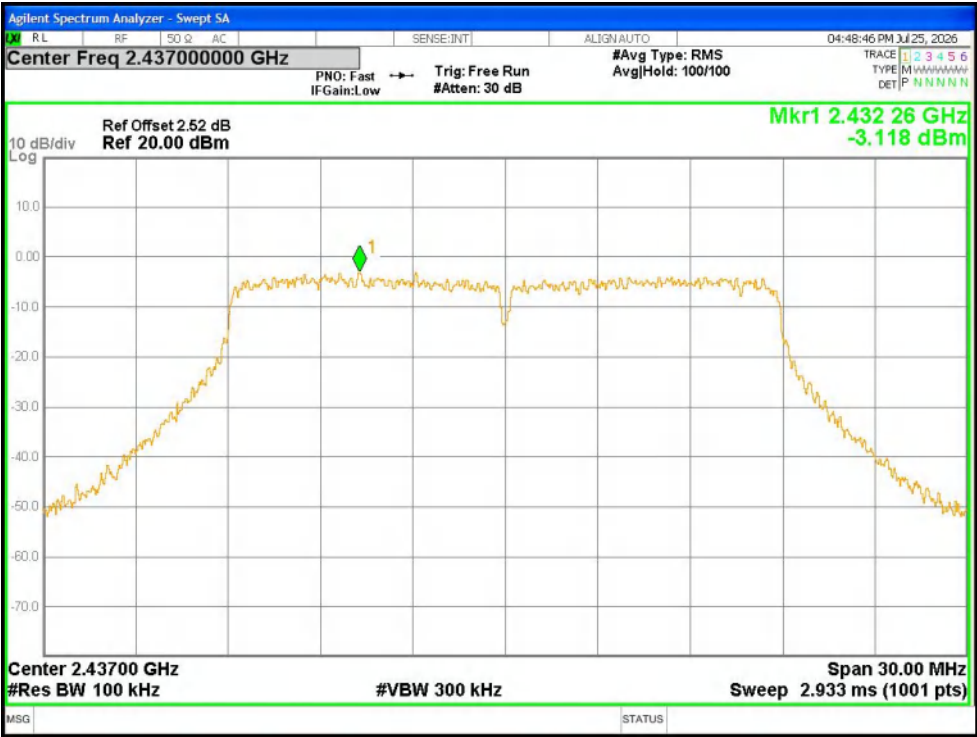
Tx. Spurious NVNT g 2462MHz Ant1 Emission



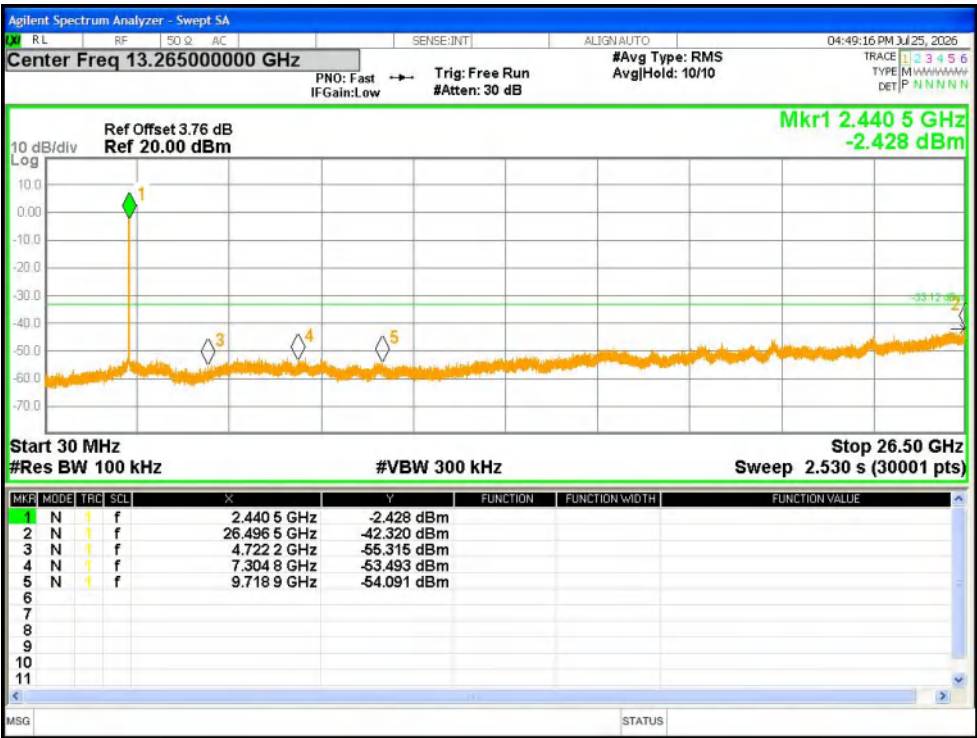
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



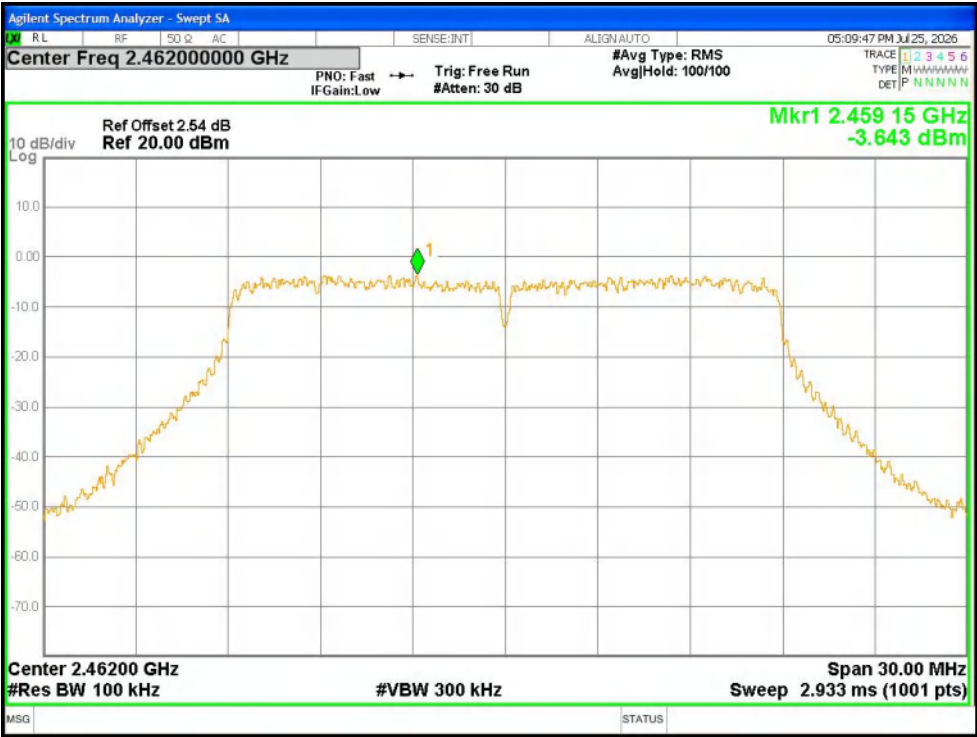
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



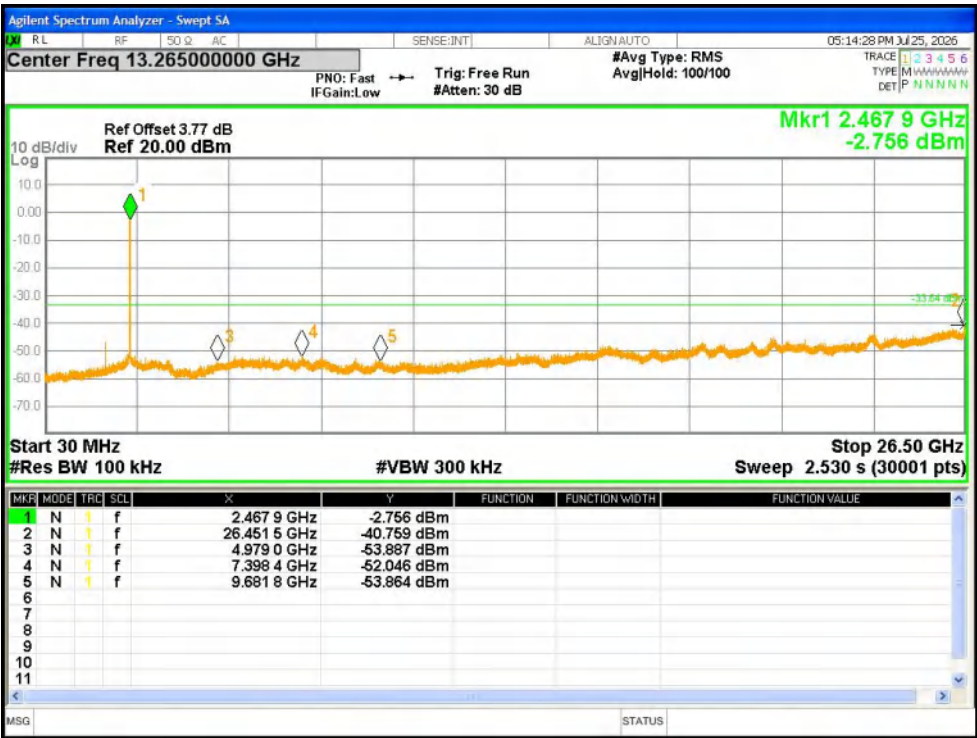
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



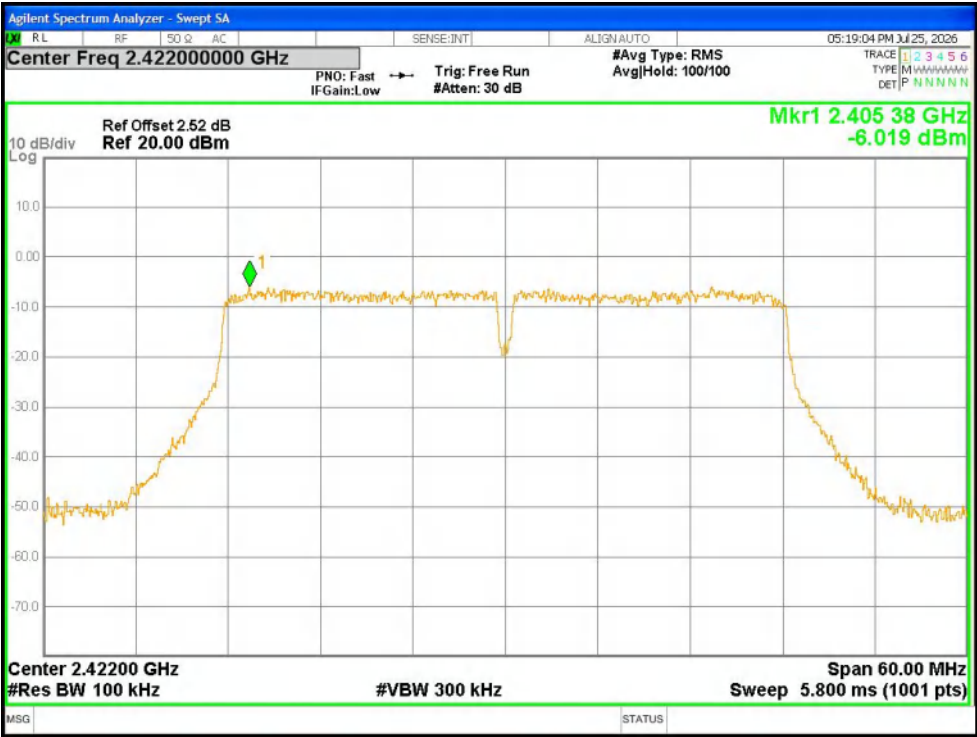
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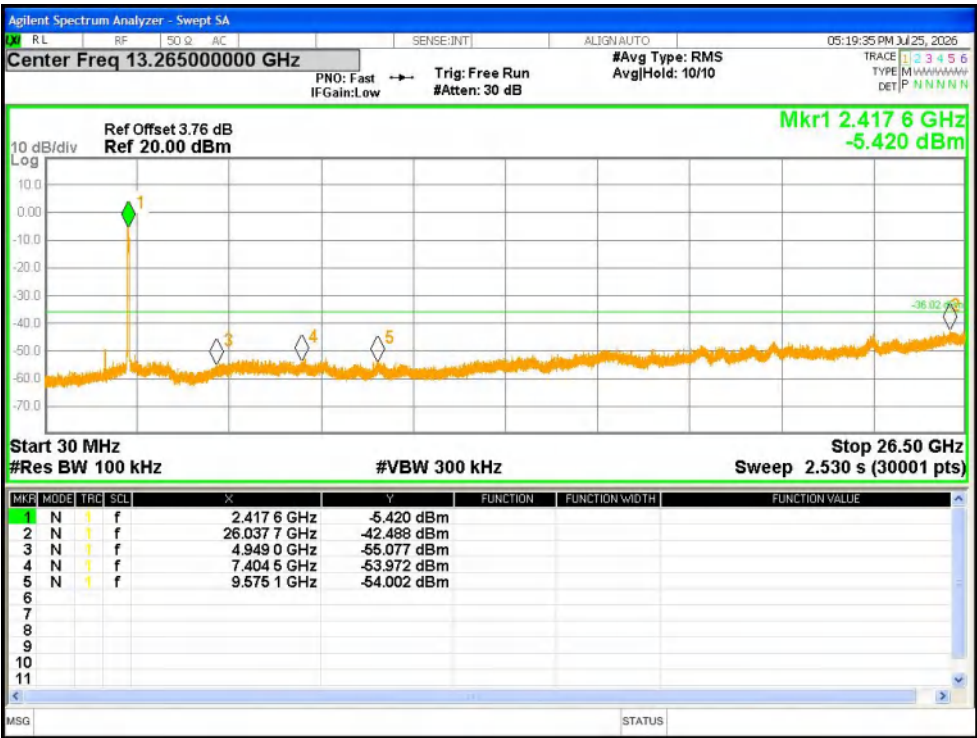
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



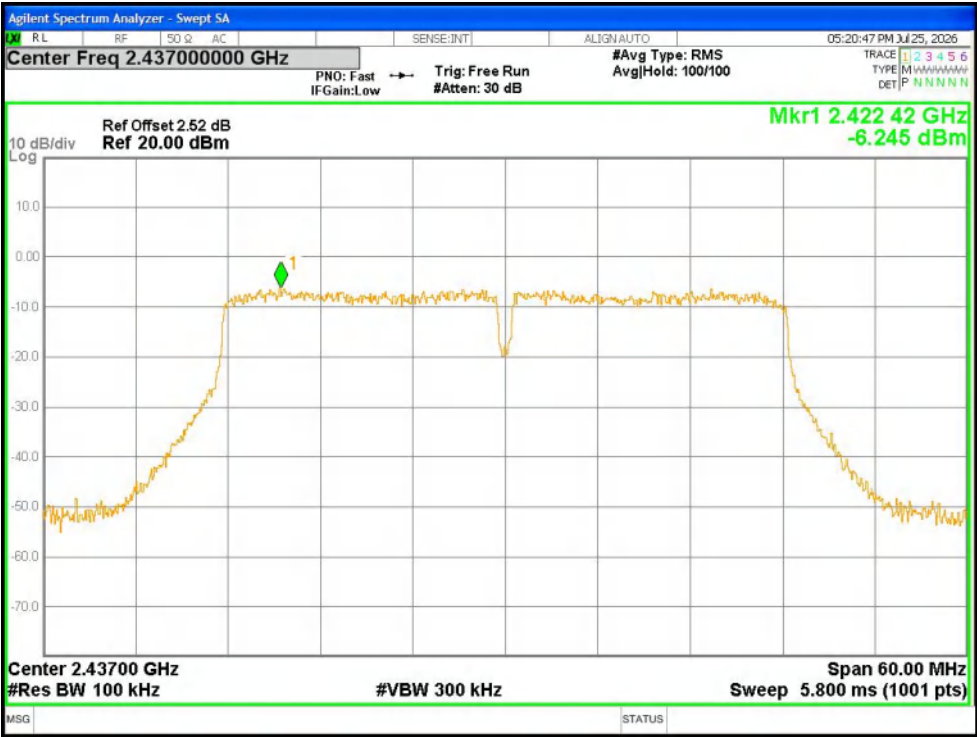
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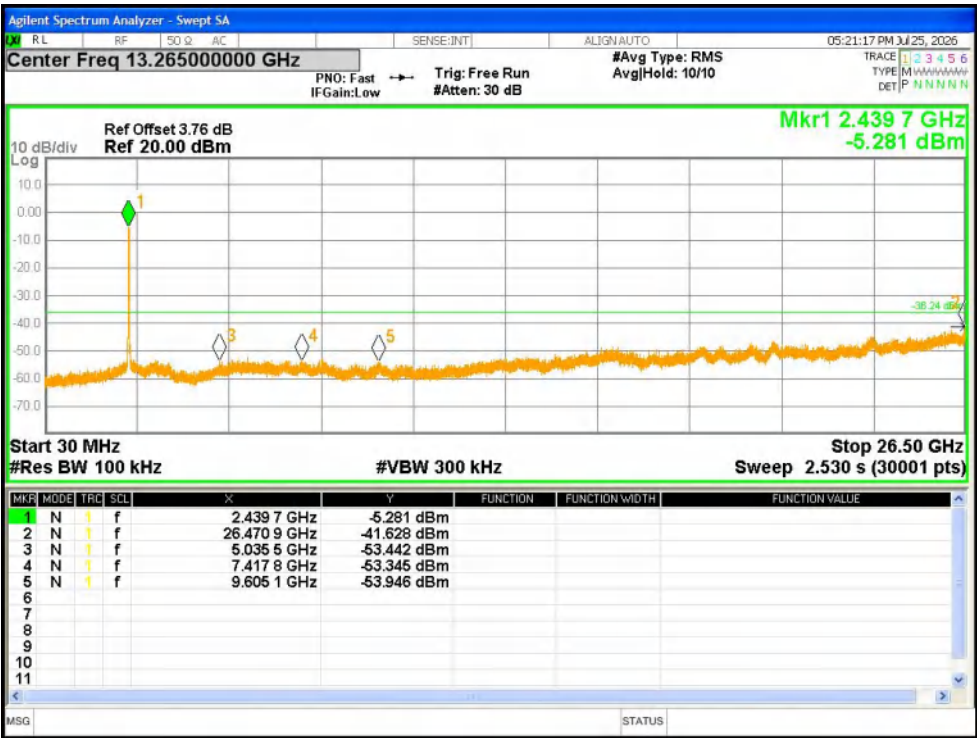
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



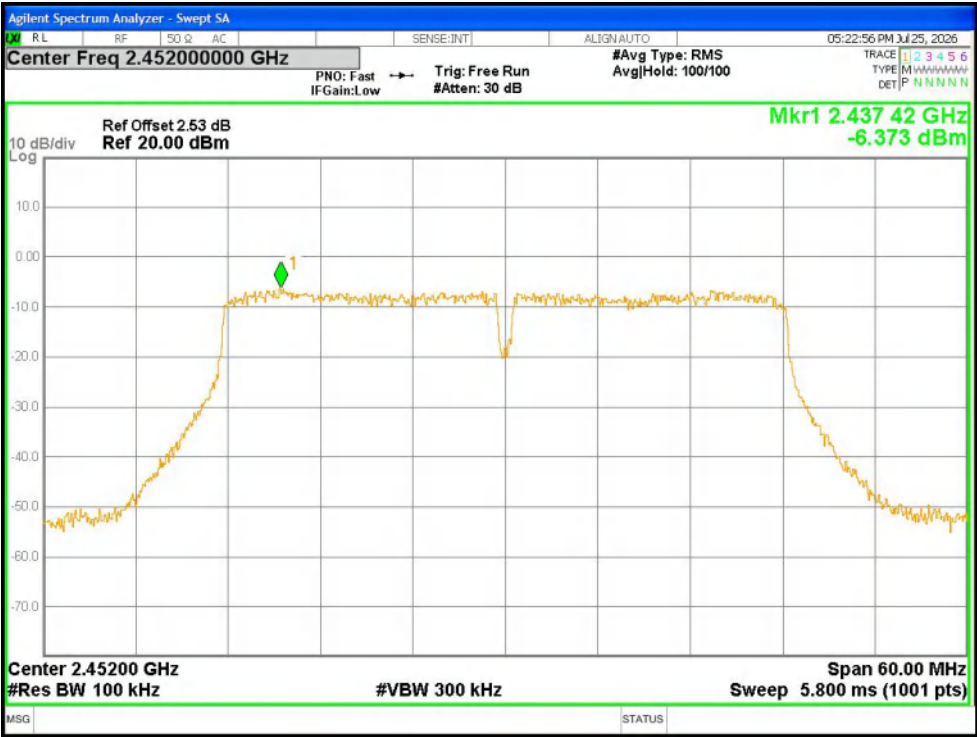
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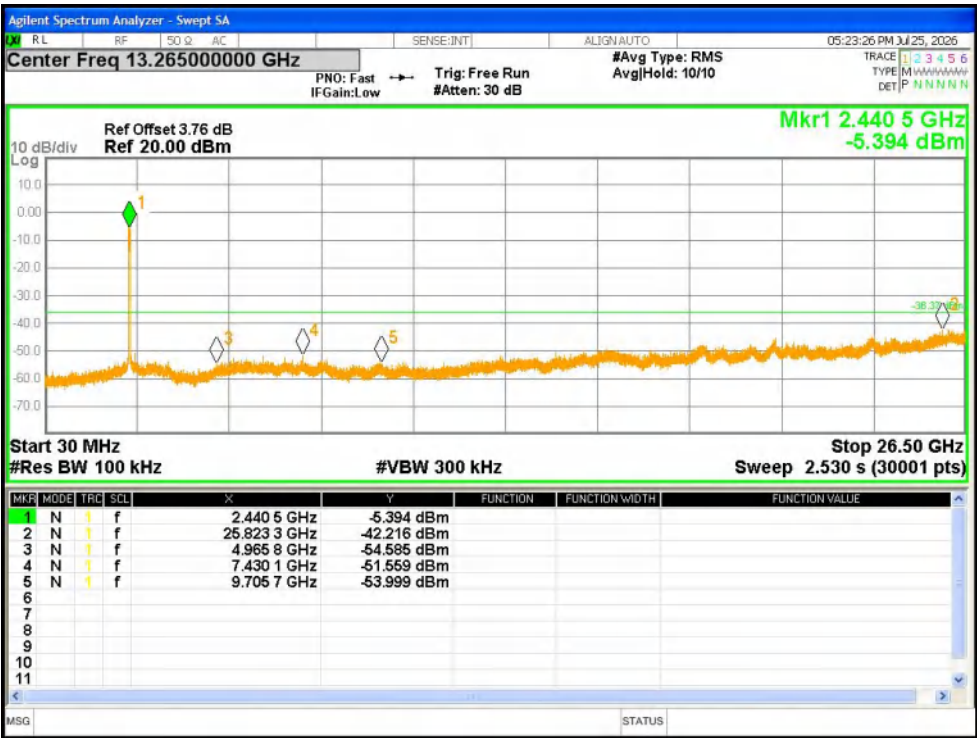
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission