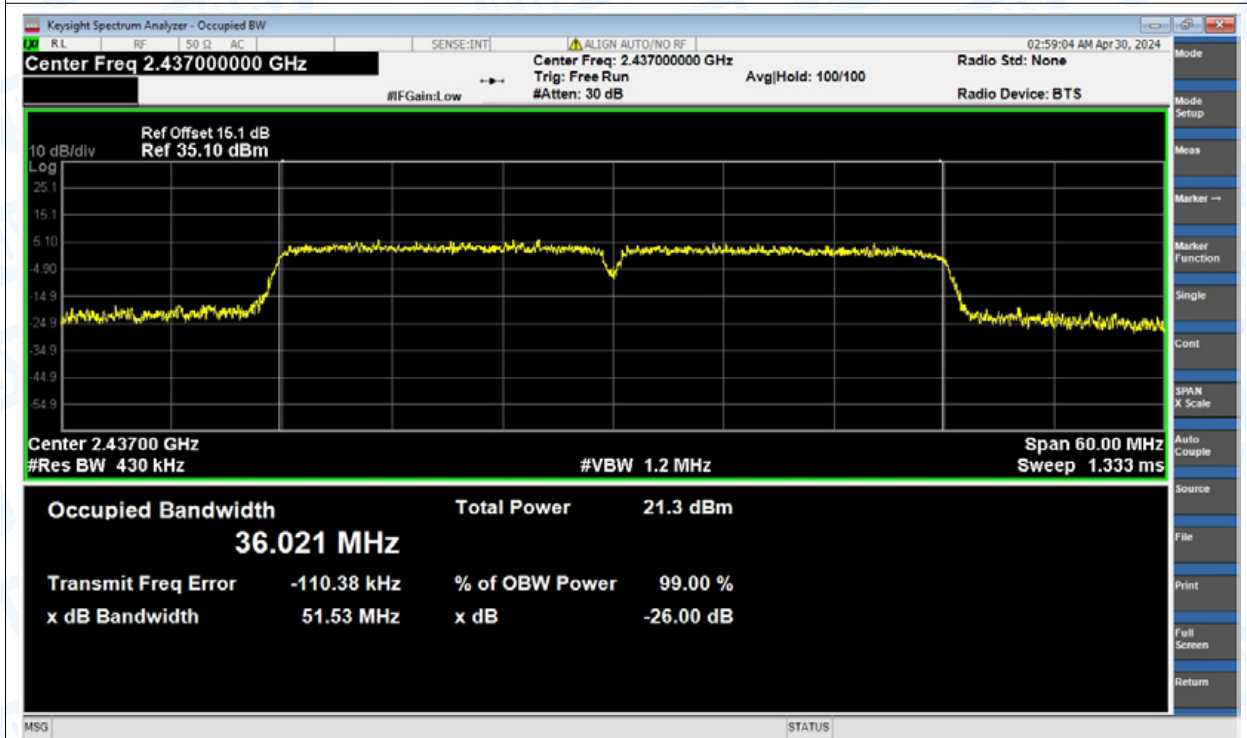
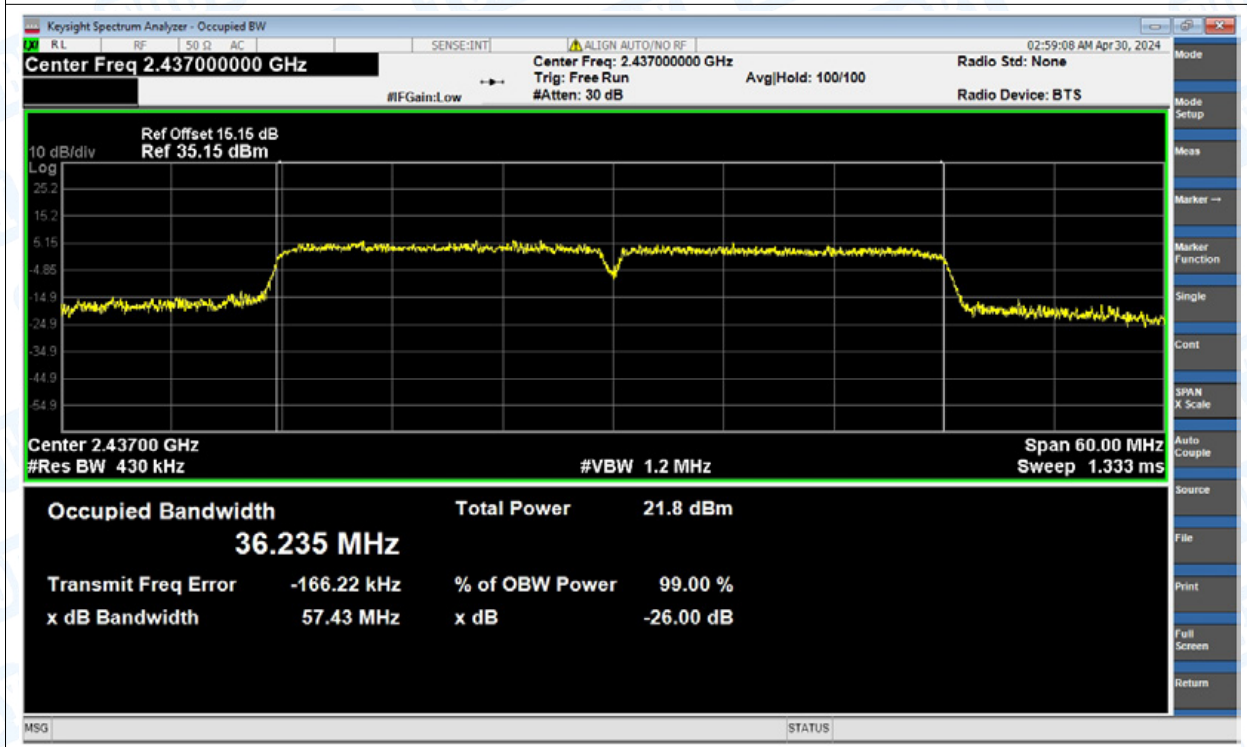


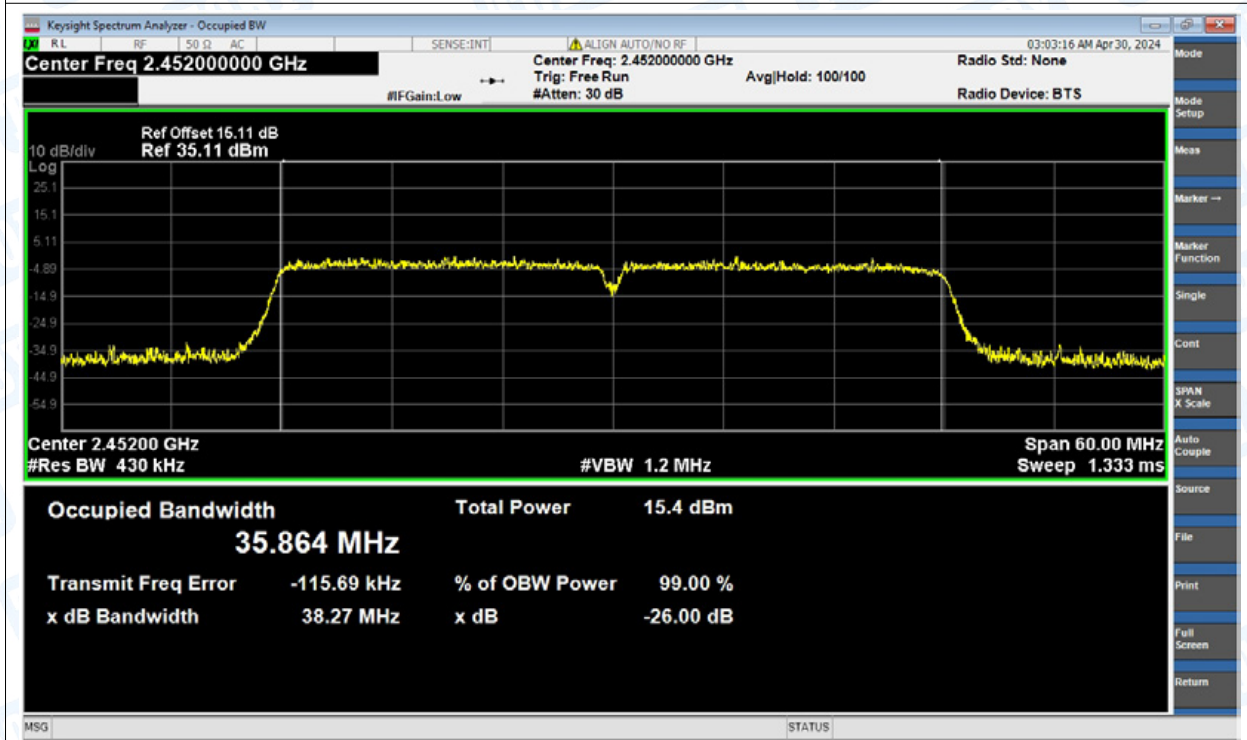
OBW NVNT n(HT40) 2437MHz Ant1



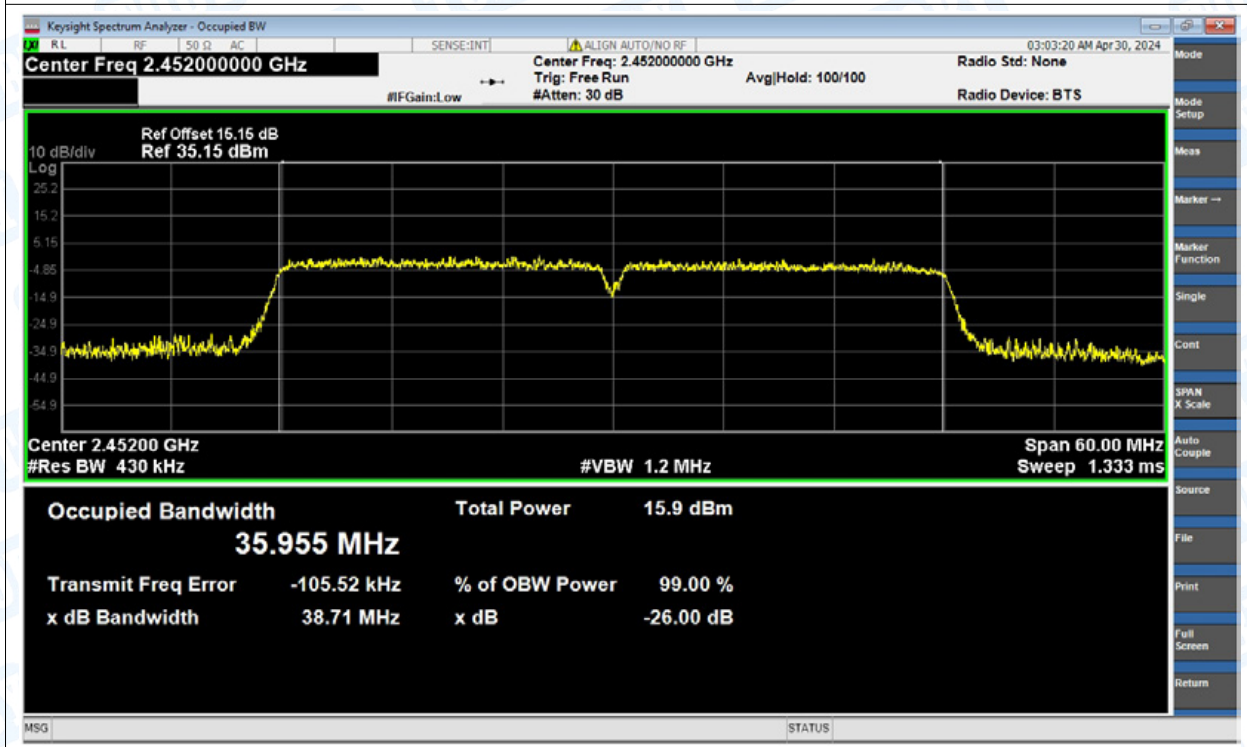
OBW NVNT n(HT40) 2437MHz Ant2



OBW NVNT n(HT40) 2452MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant2



5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-19.302	8	Pass
NVNT	b	2412	Ant2	-20.071	8	Pass
NVNT	b	2412	Sum	-16.659	6.15	Pass
NVNT	b	2437	Ant1	-14.856	8	Pass
NVNT	b	2437	Ant2	-15.711	8	Pass
NVNT	b	2437	Sum	-12.252	6.15	Pass
NVNT	b	2462	Ant1	-21.27	8	Pass
NVNT	b	2462	Ant2	-20.517	8	Pass
NVNT	b	2462	Sum	-17.867	6.15	Pass
NVNT	g	2412	Ant1	-24.679	8	Pass
NVNT	g	2412	Ant2	-25.034	8	Pass
NVNT	g	2412	Sum	-21.843	6.15	Pass
NVNT	g	2437	Ant1	-17.732	8	Pass
NVNT	g	2437	Ant2	-17.237	8	Pass
NVNT	g	2437	Sum	-14.467	6.15	Pass
NVNT	g	2462	Ant1	-25.853	8	Pass
NVNT	g	2462	Ant2	-26.284	8	Pass
NVNT	g	2462	Sum	-23.053	6.15	Pass
NVNT	n(HT20)	2412	Ant1	-25.331	8	Pass
NVNT	n(HT20)	2412	Ant2	-25.384	8	Pass
NVNT	n(HT20)	2412	Sum	-22.347	6.15	Pass
NVNT	n(HT20)	2437	Ant1	-18.358	8	Pass
NVNT	n(HT20)	2437	Ant2	-17.644	8	Pass
NVNT	n(HT20)	2437	Sum	-14.976	6.15	Pass
NVNT	n(HT20)	2462	Ant1	-26.152	8	Pass
NVNT	n(HT20)	2462	Ant2	-26.841	8	Pass
NVNT	n(HT20)	2462	Sum	-23.473	6.15	Pass
NVNT	n(HT40)	2422	Ant1	-29.547	8	Pass
NVNT	n(HT40)	2422	Ant2	-29.285	8	Pass
NVNT	n(HT40)	2422	Sum	-26.404	6.15	Pass
NVNT	n(HT40)	2437	Ant1	-21.732	8	Pass
NVNT	n(HT40)	2437	Ant2	-21.455	8	Pass
NVNT	n(HT40)	2437	Sum	-18.581	6.15	Pass
NVNT	n(HT40)	2452	Ant1	-29.919	8	Pass
NVNT	n(HT40)	2452	Ant2	-30.379	8	Pass
NVNT	n(HT40)	2452	Sum	-27.133	6.15	Pass

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two antennas for transmitting and receiving.

When ANT.1(4.61dBi) and ANT. 2(5.06dBi) transmitting simultaneously, so the Directional Gain= 7.85dBi>6dBi.

So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (8 - 1.85) \text{dBm} = 6.15 \text{dBm}$

Directional Gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$

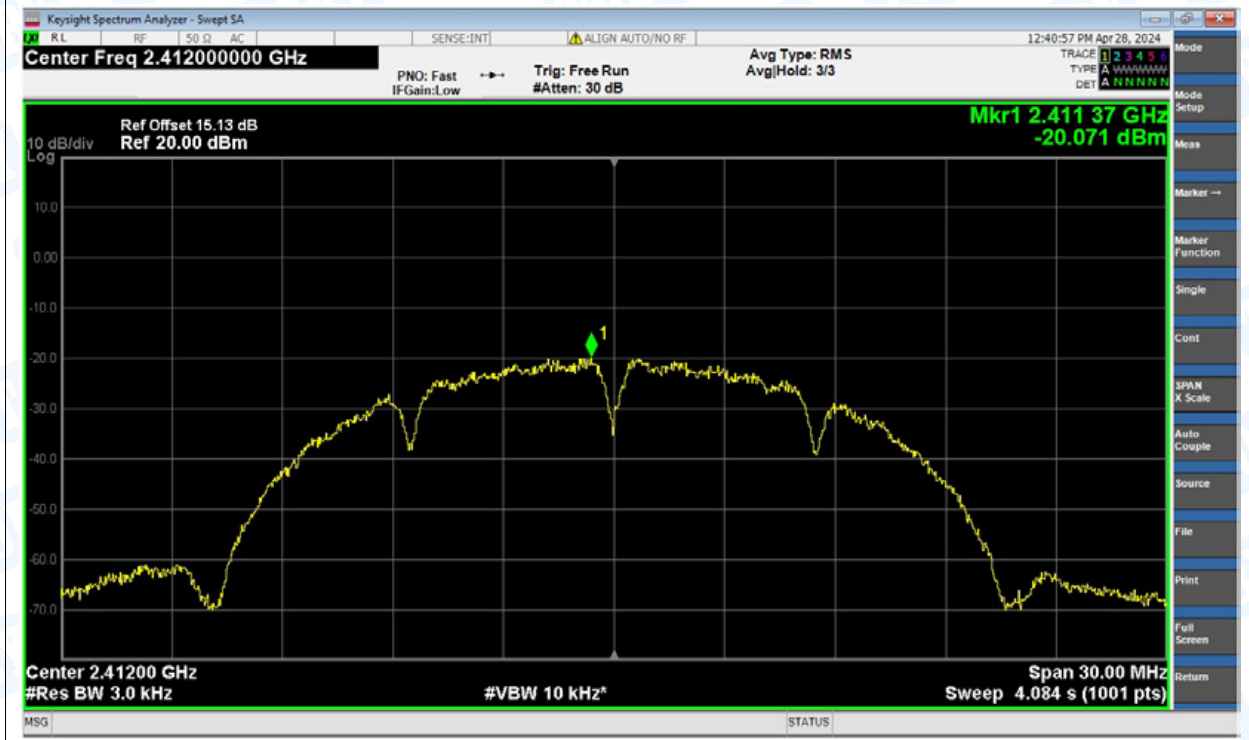
The Duty Cycle Factor is compensated in the graph.

Test Graphs

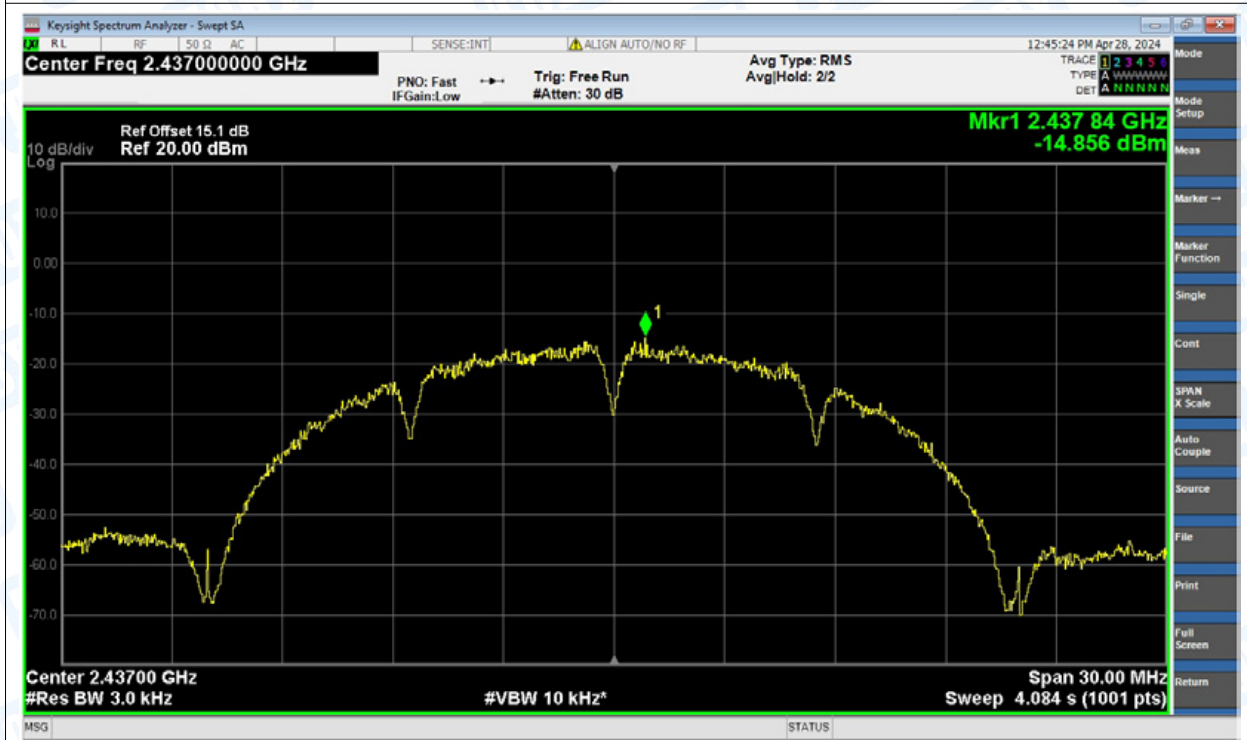
PSD NVNT b 2412MHz Ant1



PSD NVNT b 2412MHz Ant2



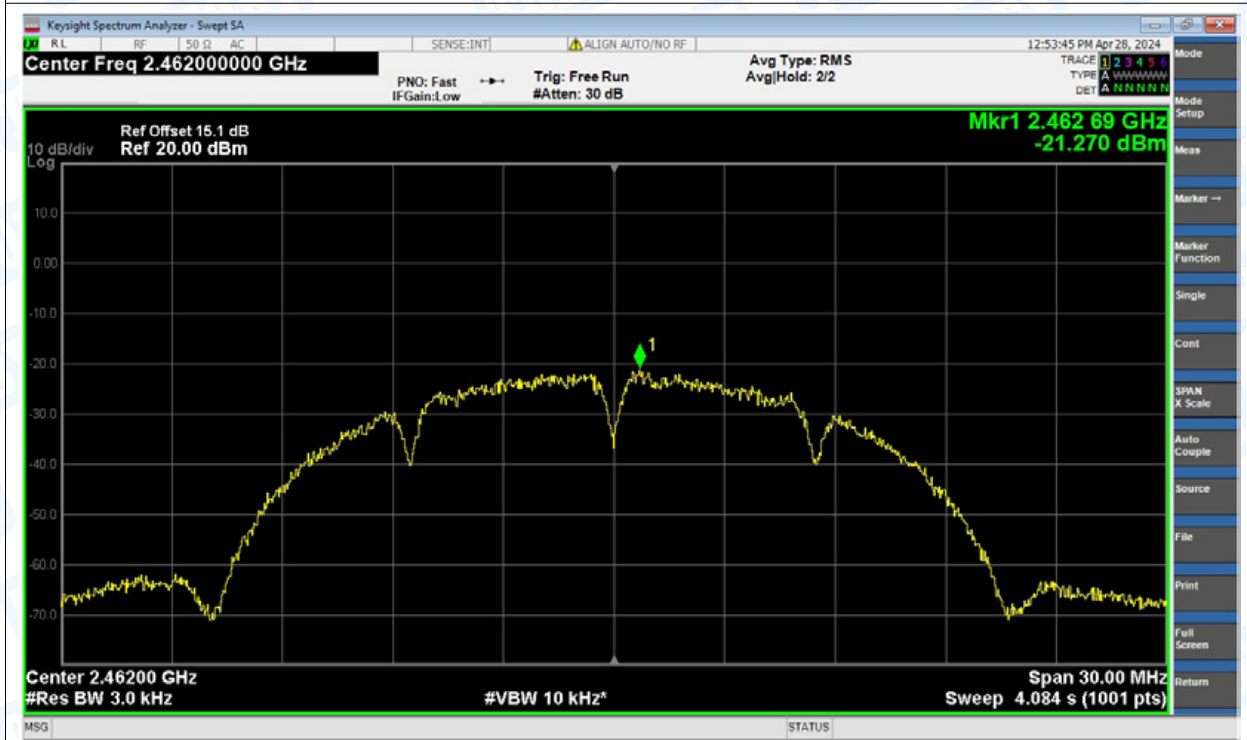
PSD NVNT b 2437MHz Ant1



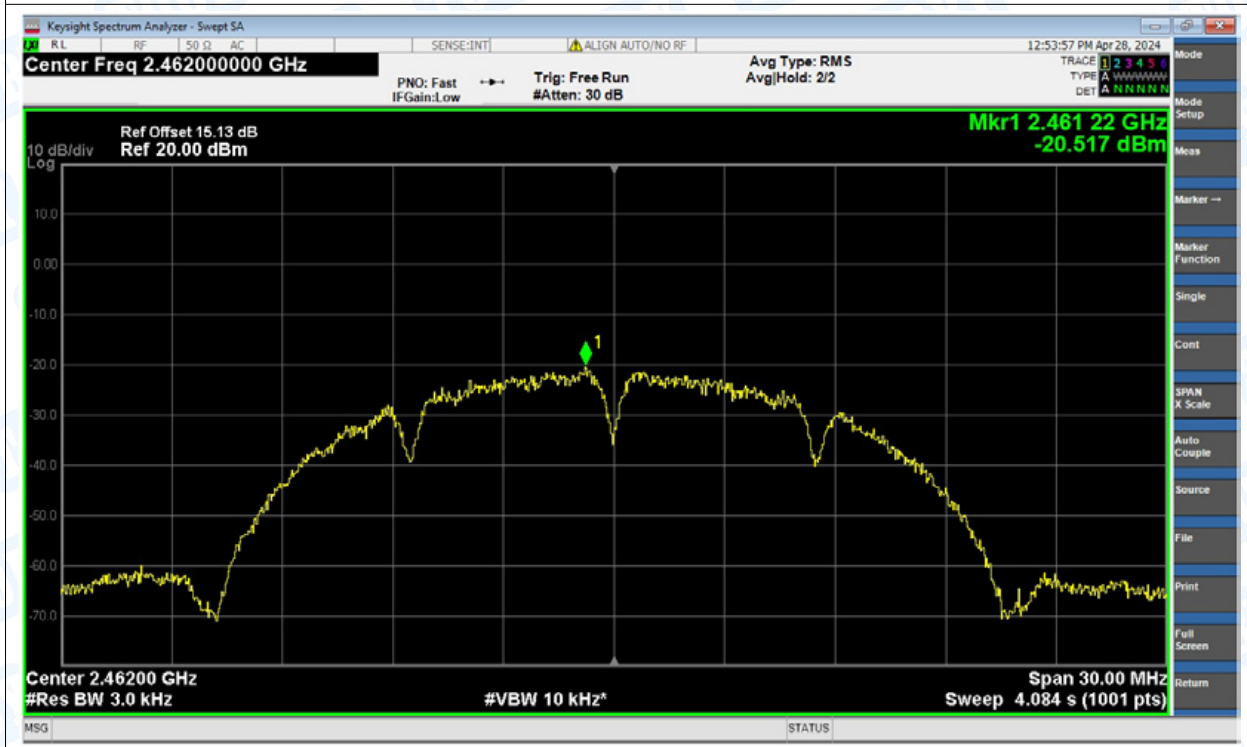
PSD NVNT b 2437MHz Ant2



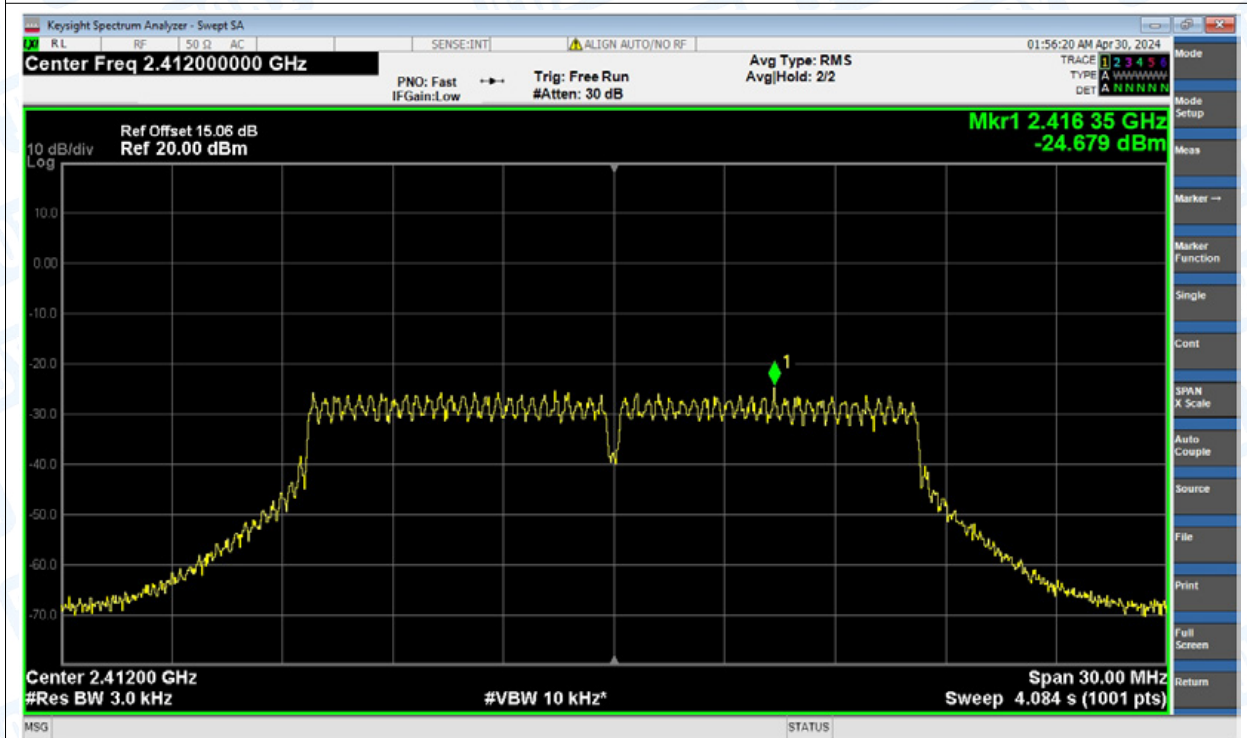
PSD NVNT b 2462MHz Ant1



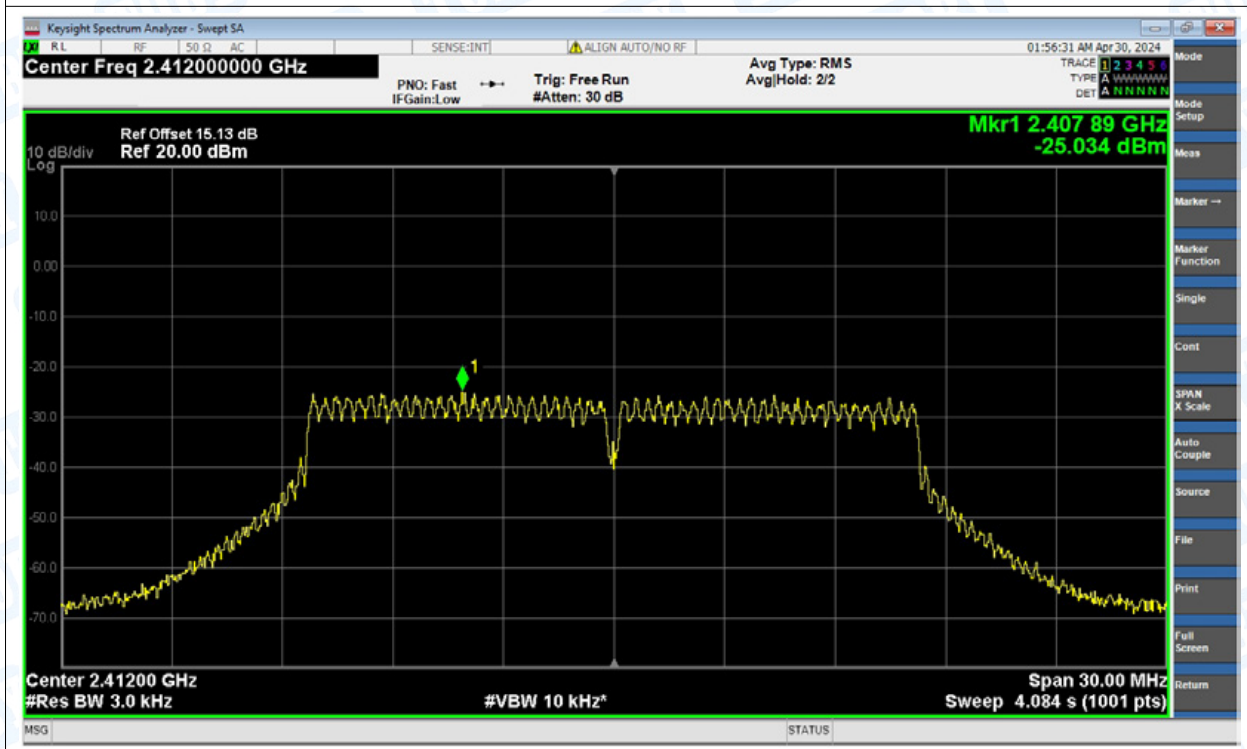
PSD NVNT b 2462MHz Ant2



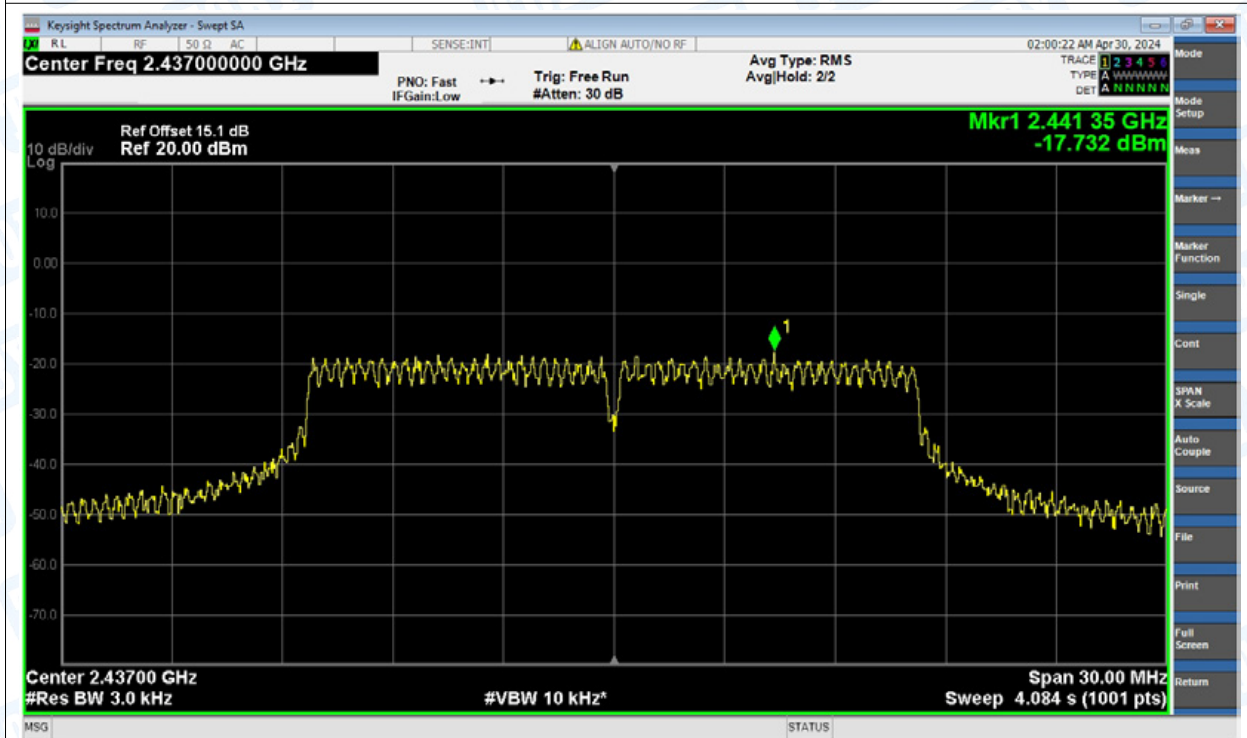
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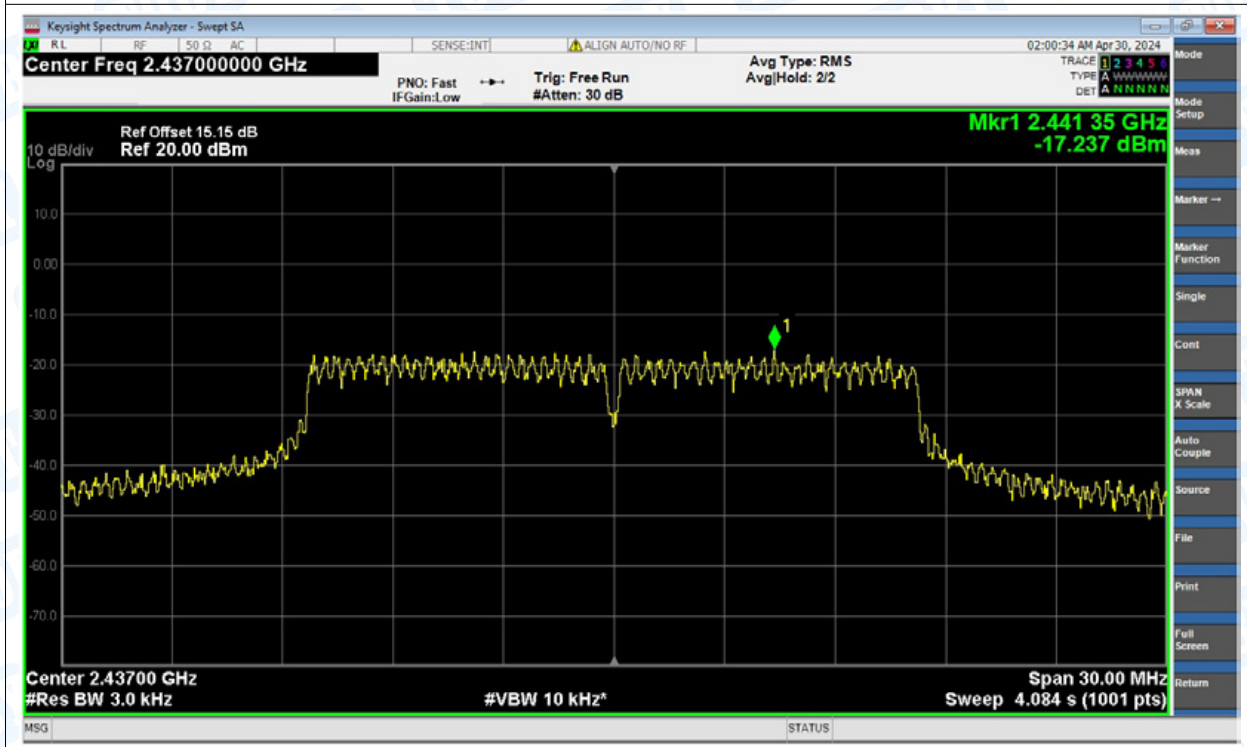
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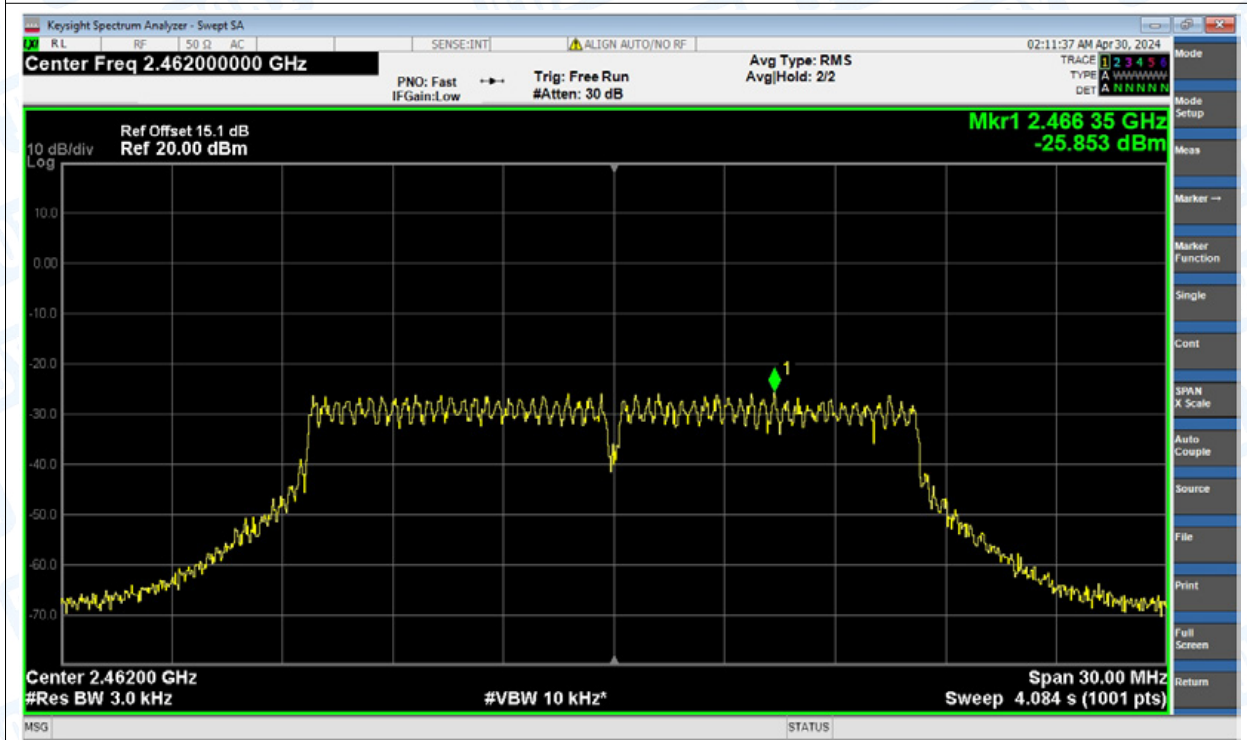
PSD NVNT g 2437MHz Ant1



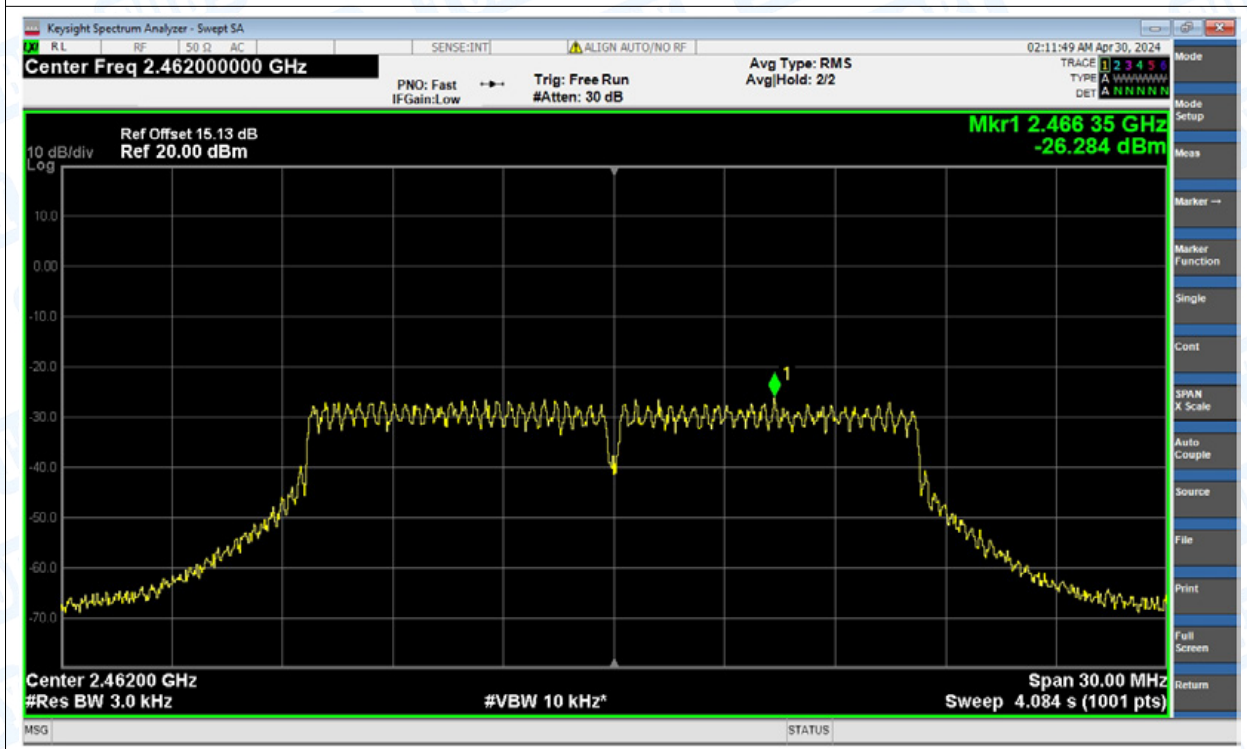
PSD NVNT g 2437MHz Ant2



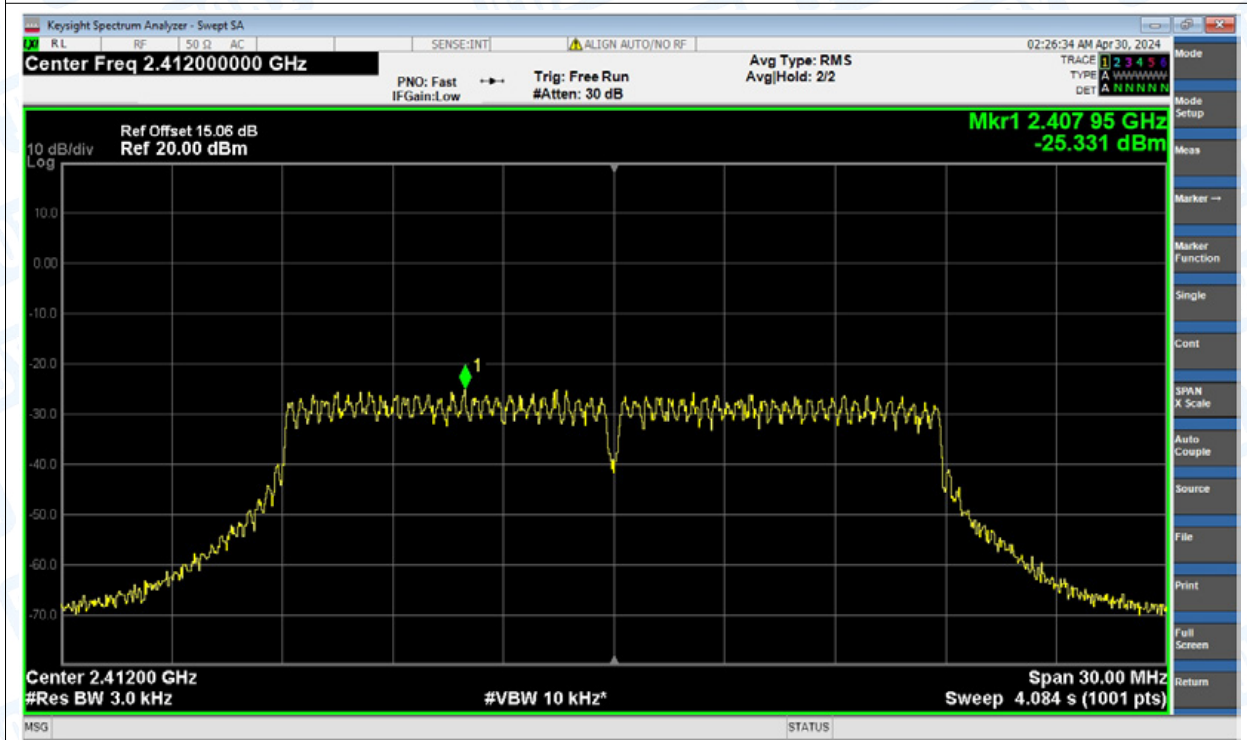
PSD NVNT g 2462MHz Ant1



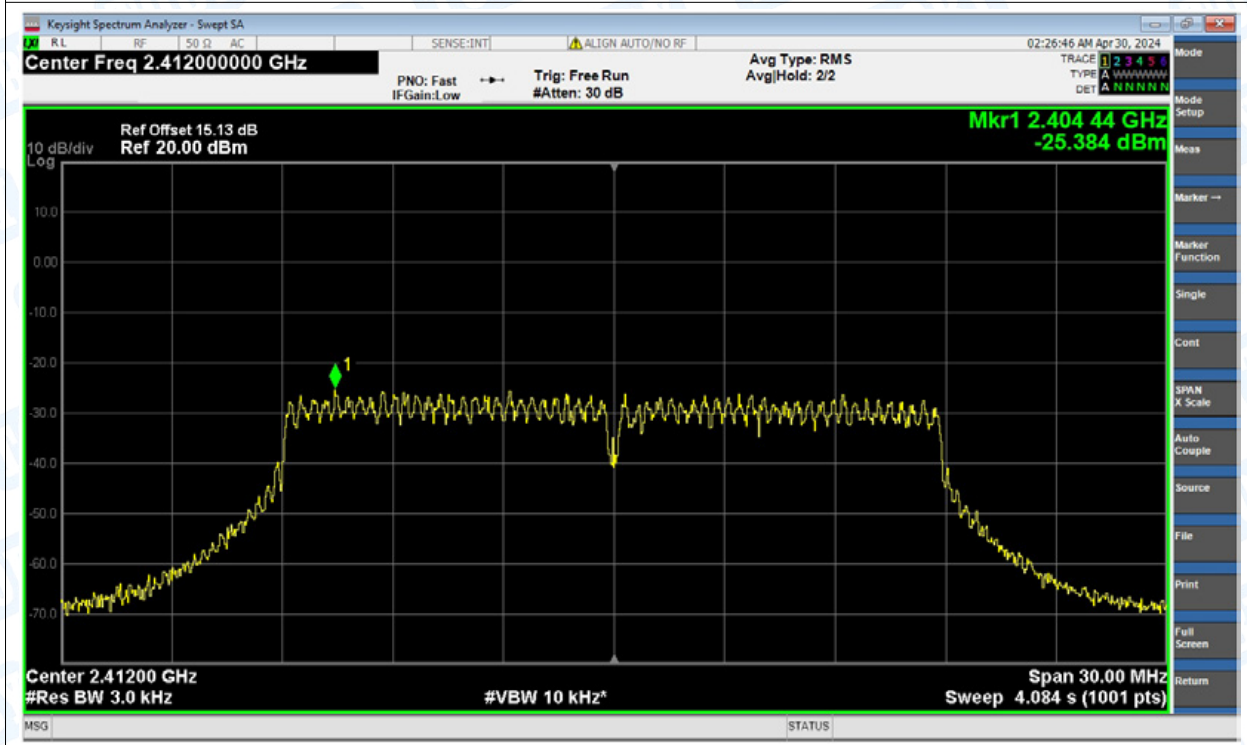
PSD NVNT g 2462MHz Ant2



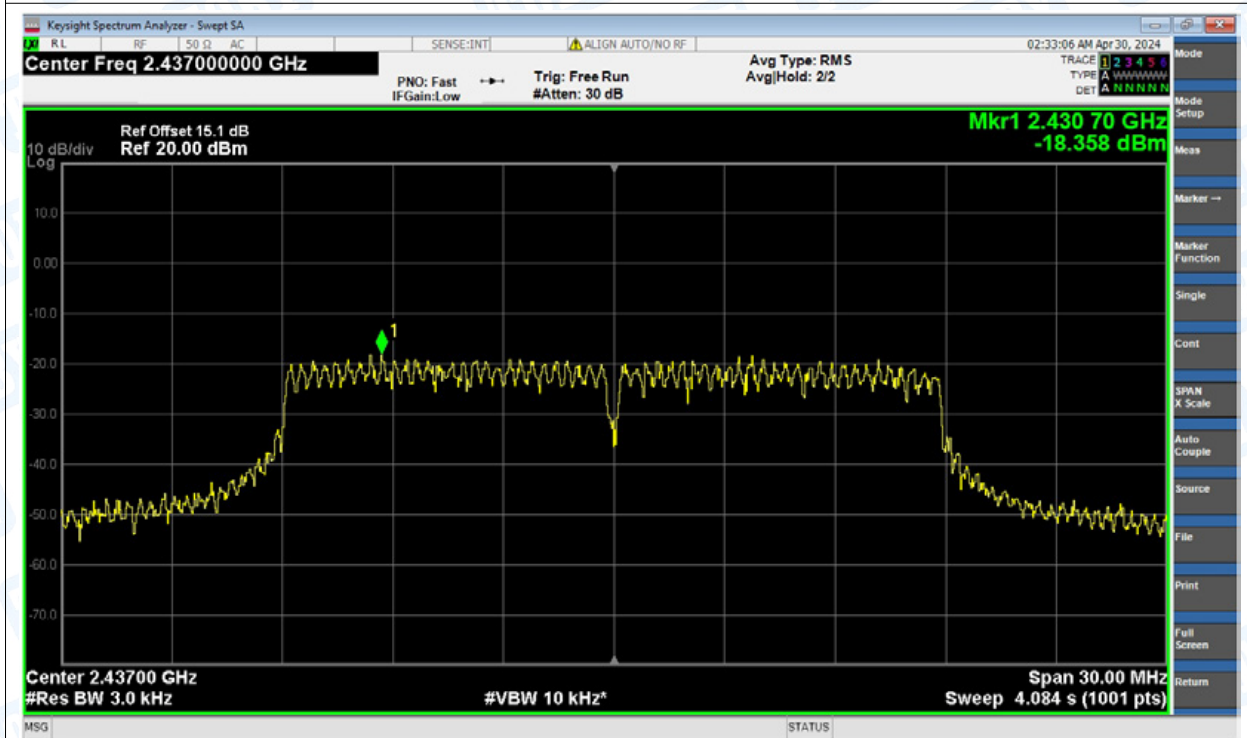
PSD NVNT n(HT20) 2412MHz Ant1



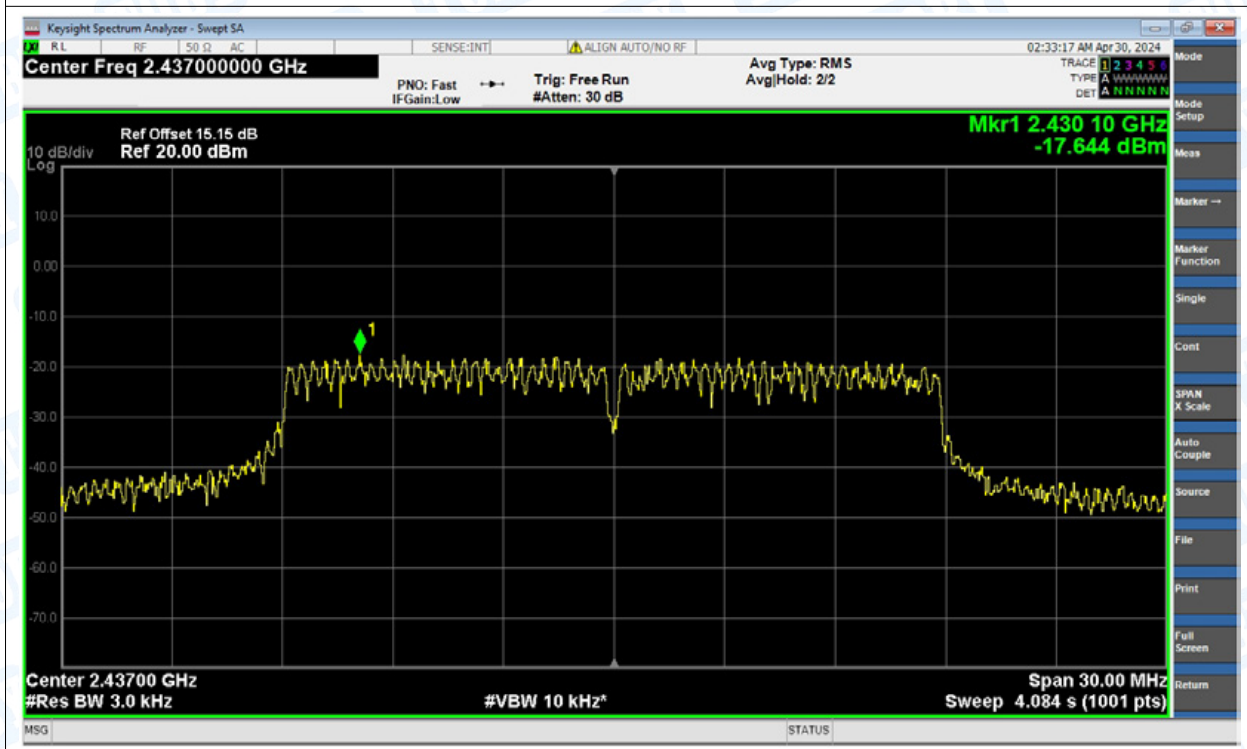
PSD NVNT n(HT20) 2412MHz Ant2



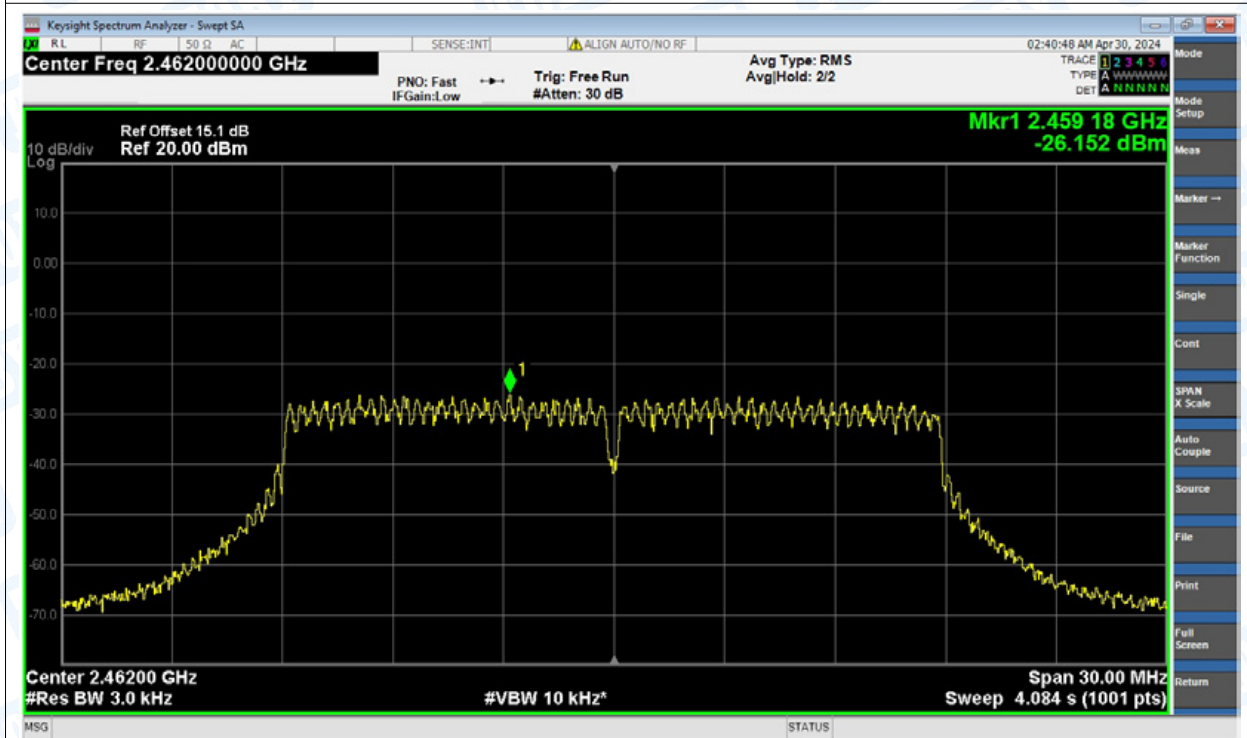
PSD NVNT n(HT20) 2437MHz Ant1



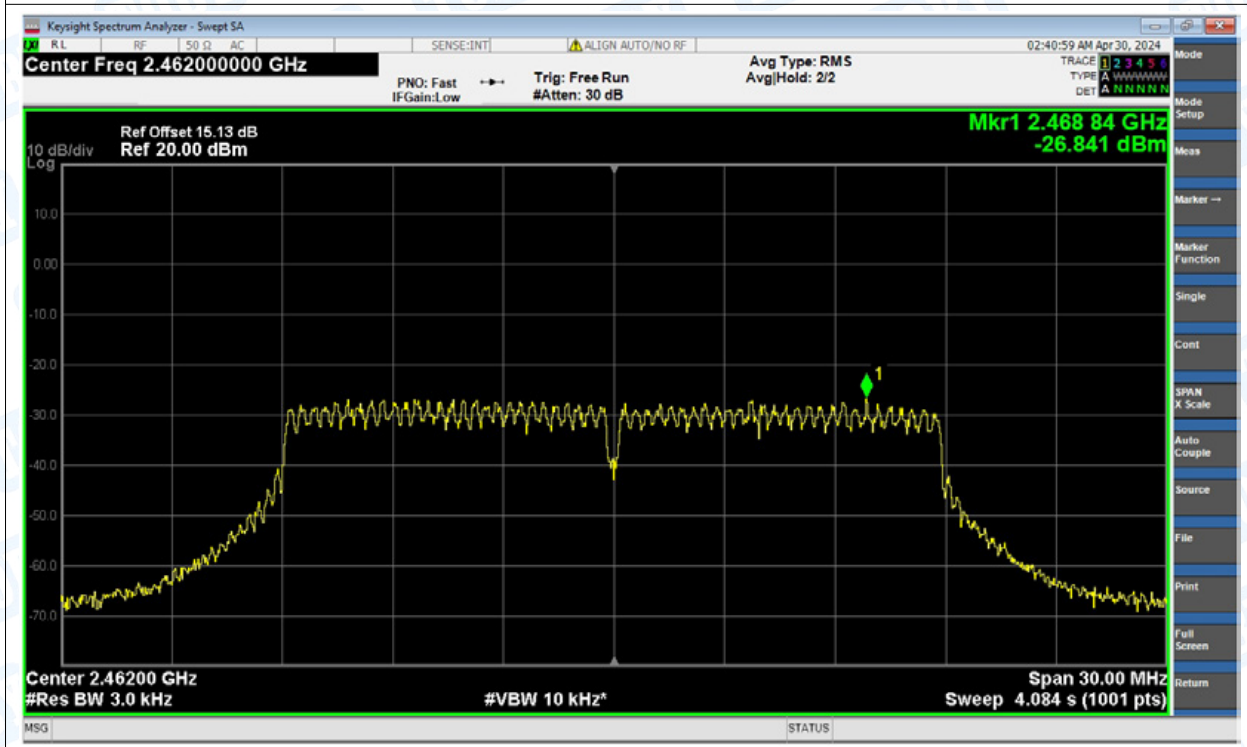
PSD NVNT n(HT20) 2437MHz Ant2



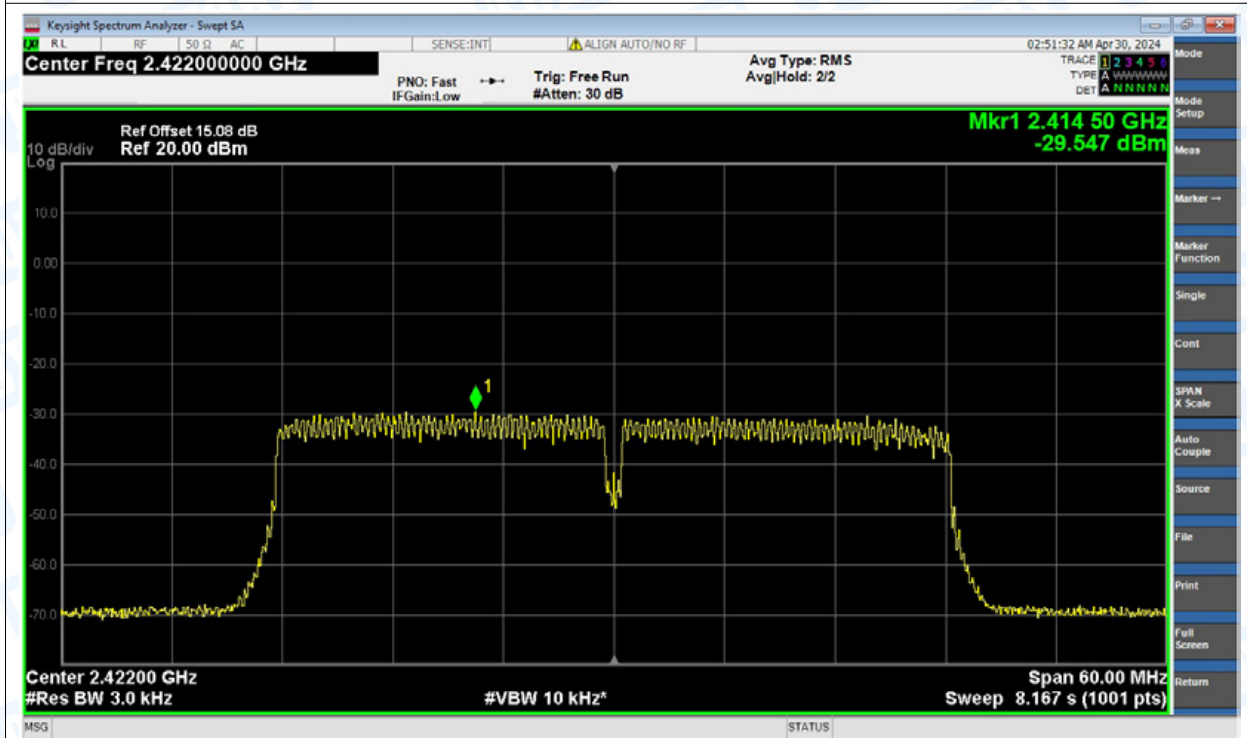
PSD NVNT n(HT20) 2462MHz Ant1



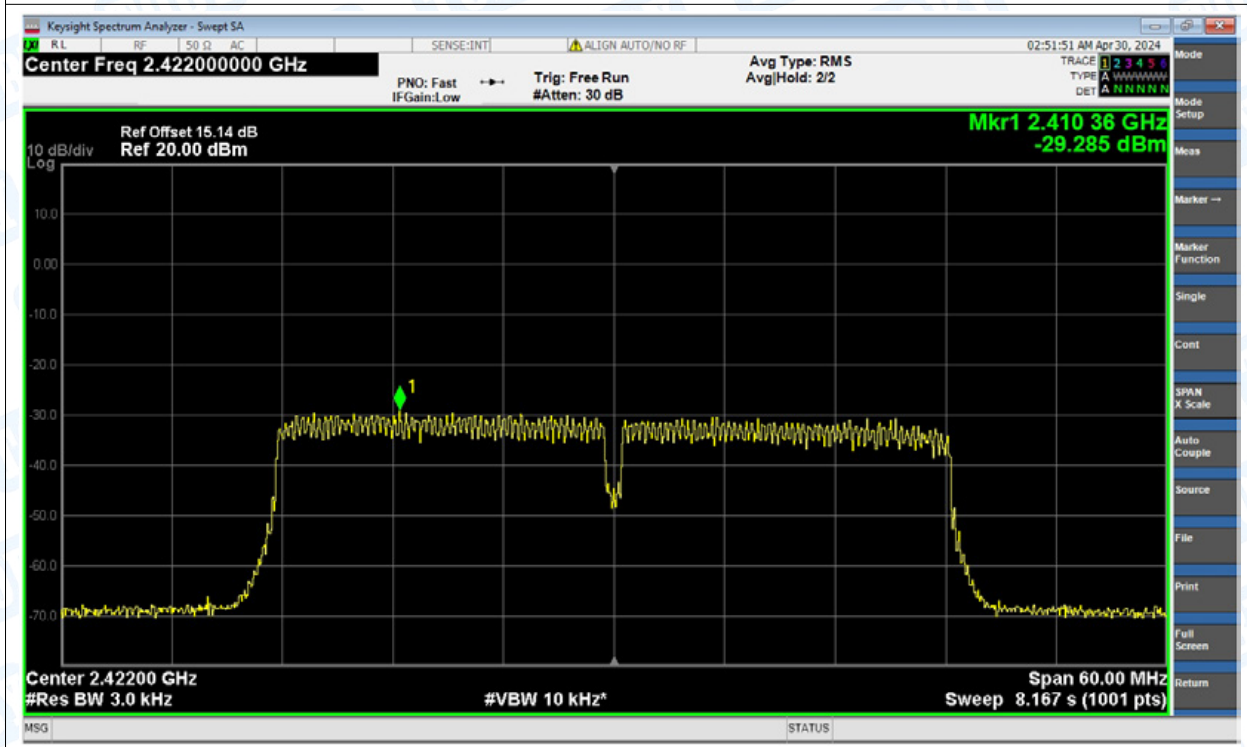
PSD NVNT n(HT20) 2462MHz Ant2



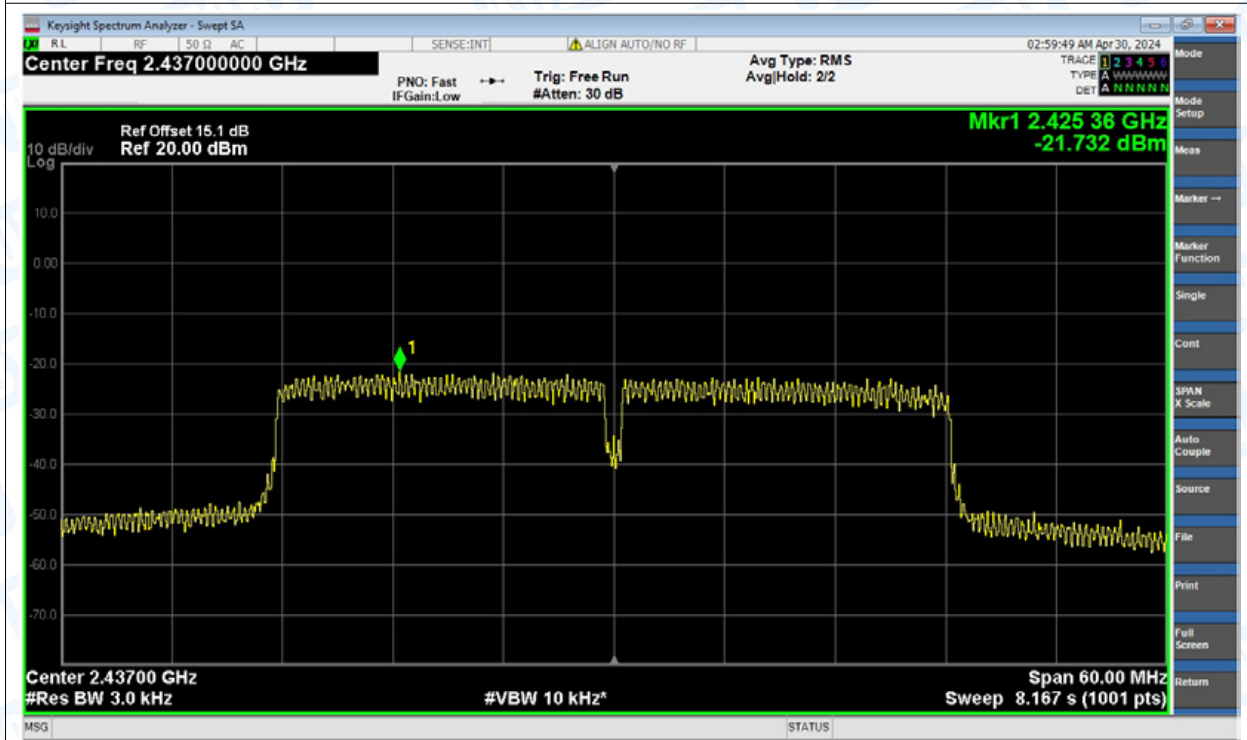
PSD NVNT n(HT40) 2422MHz Ant1



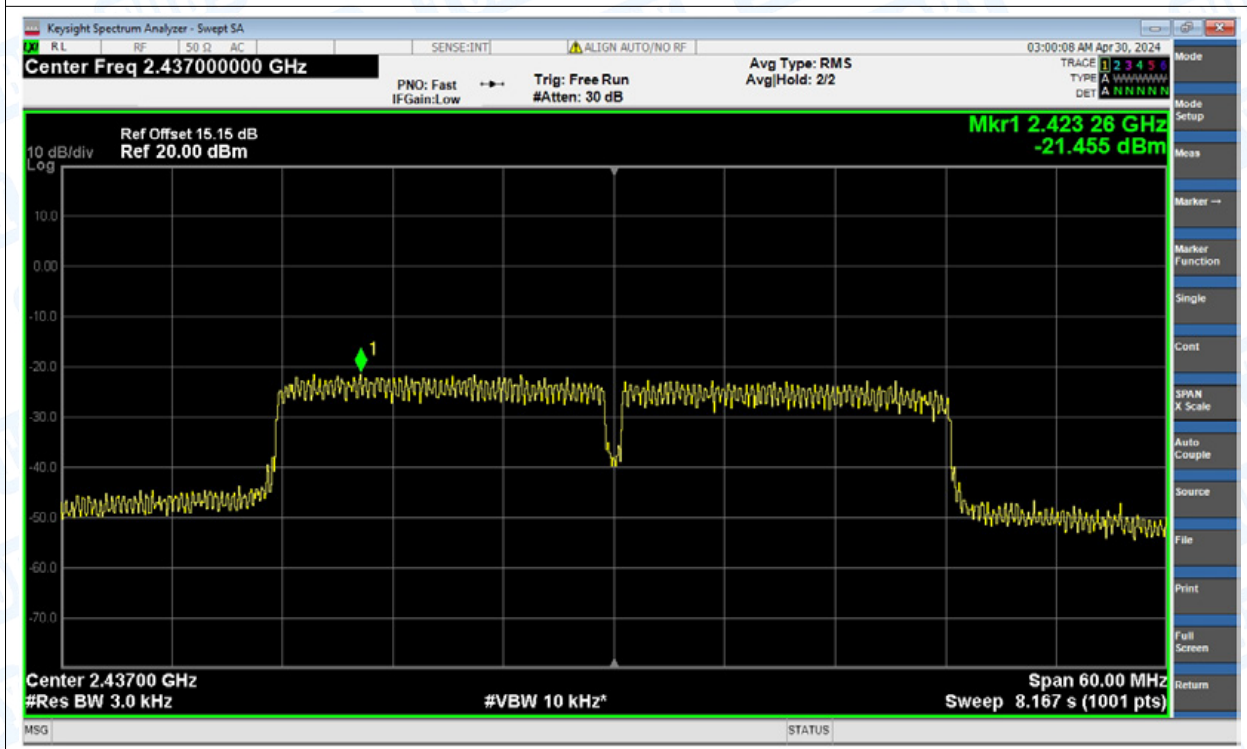
PSD NVNT n(HT40) 2422MHz Ant2



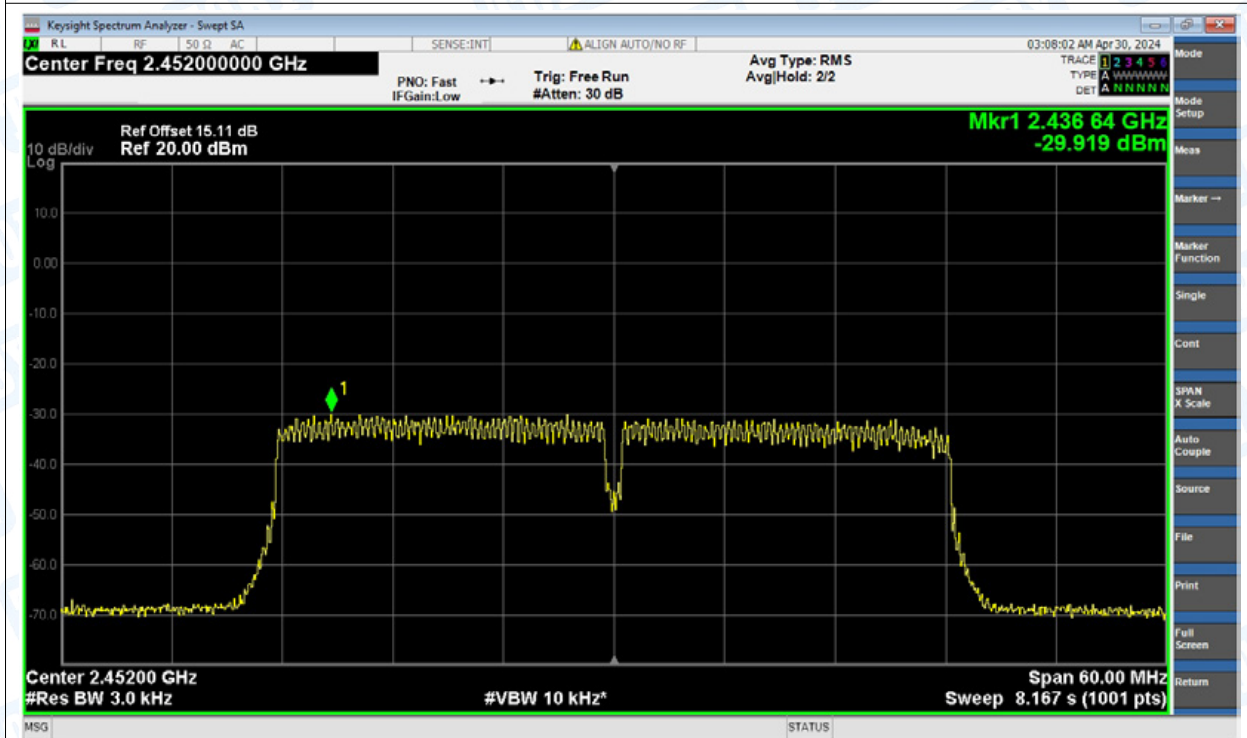
PSD NVNT n(HT40) 2437MHz Ant1



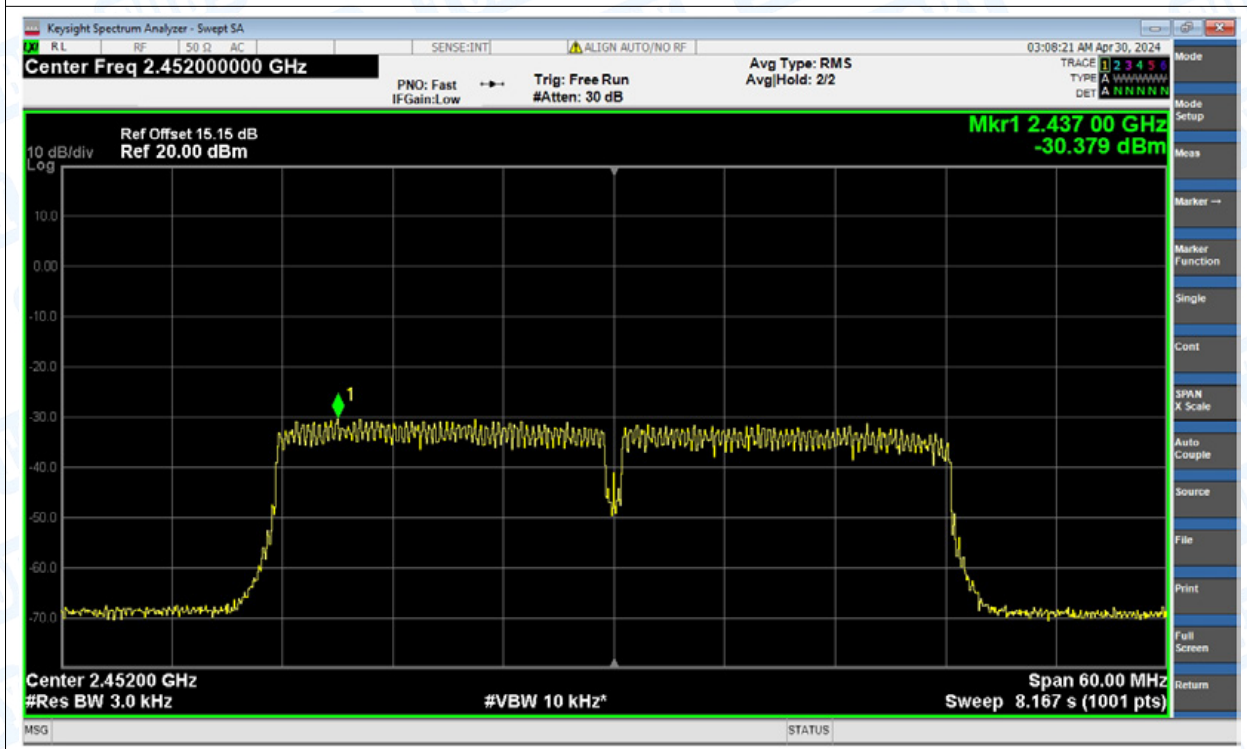
PSD NVNT n(HT40) 2437MHz Ant2



PSD NVNT n(HT40) 2452MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant2

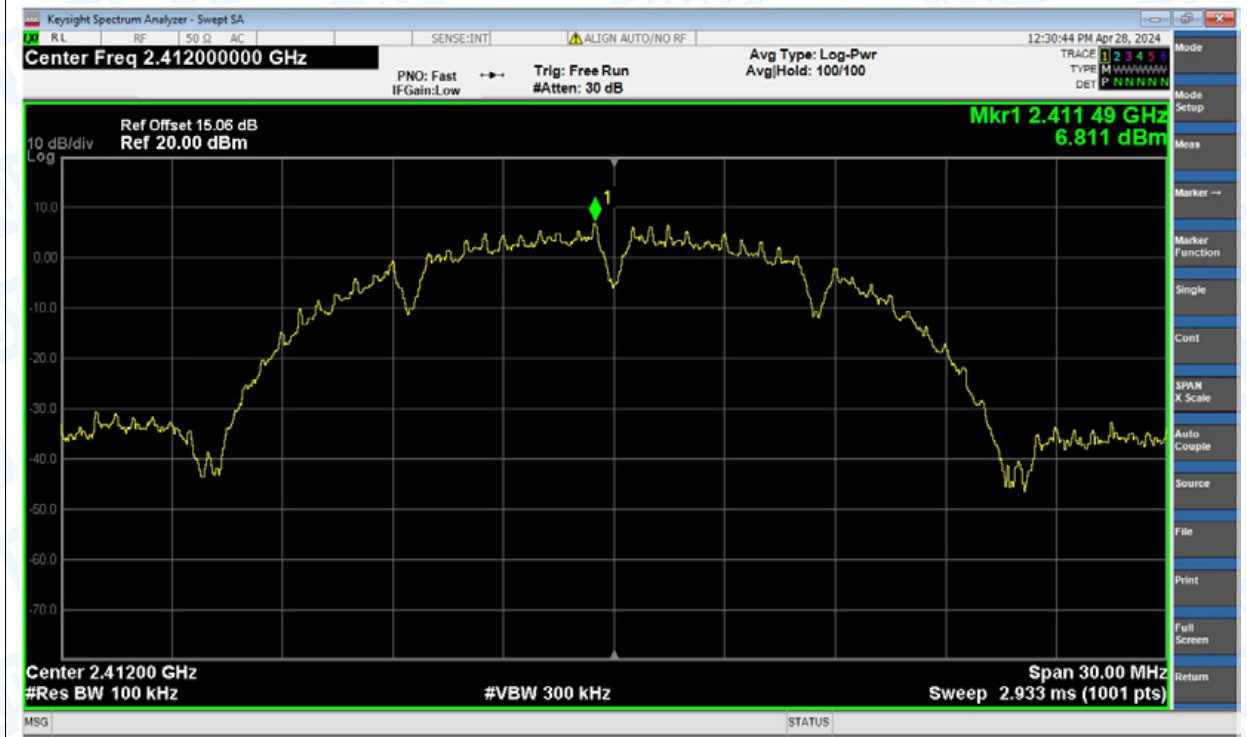


6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.52	-30	Pass
NVNT	b	2412	Ant2	-49.66	-30	Pass
NVNT	b	2462	Ant1	-45.99	-30	Pass
NVNT	b	2462	Ant2	-44.38	-30	Pass
NVNT	g	2412	Ant1	-43.91	-30	Pass
NVNT	g	2412	Ant2	-40.32	-30	Pass
NVNT	g	2462	Ant1	-42.91	-30	Pass
NVNT	g	2462	Ant2	-43.19	-30	Pass
NVNT	n(HT20)	2412	Ant1	-43.76	-30	Pass
NVNT	n(HT20)	2412	Ant2	-43.31	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.21	-30	Pass
NVNT	n(HT20)	2462	Ant2	-39.07	-30	Pass
NVNT	n(HT40)	2422	Ant1	-37.93	-30	Pass
NVNT	n(HT40)	2422	Ant2	-38.40	-30	Pass
NVNT	n(HT40)	2452	Ant1	-38.66	-30	Pass
NVNT	n(HT40)	2452	Ant2	-36.88	-30	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

