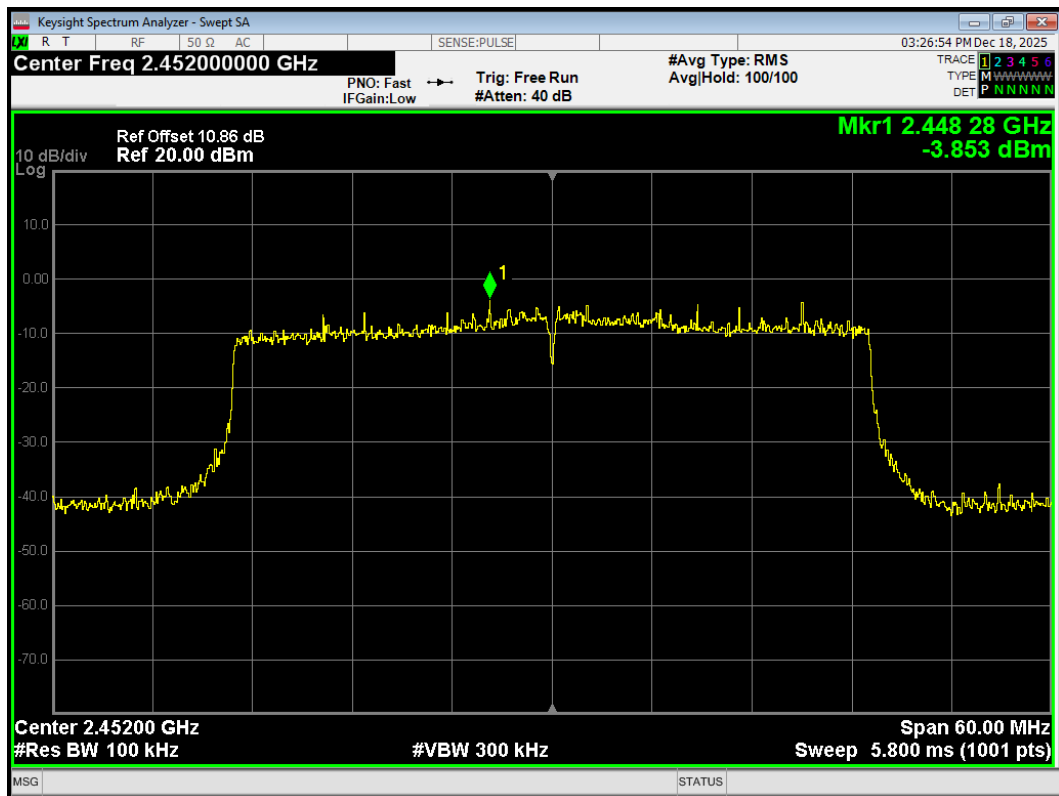
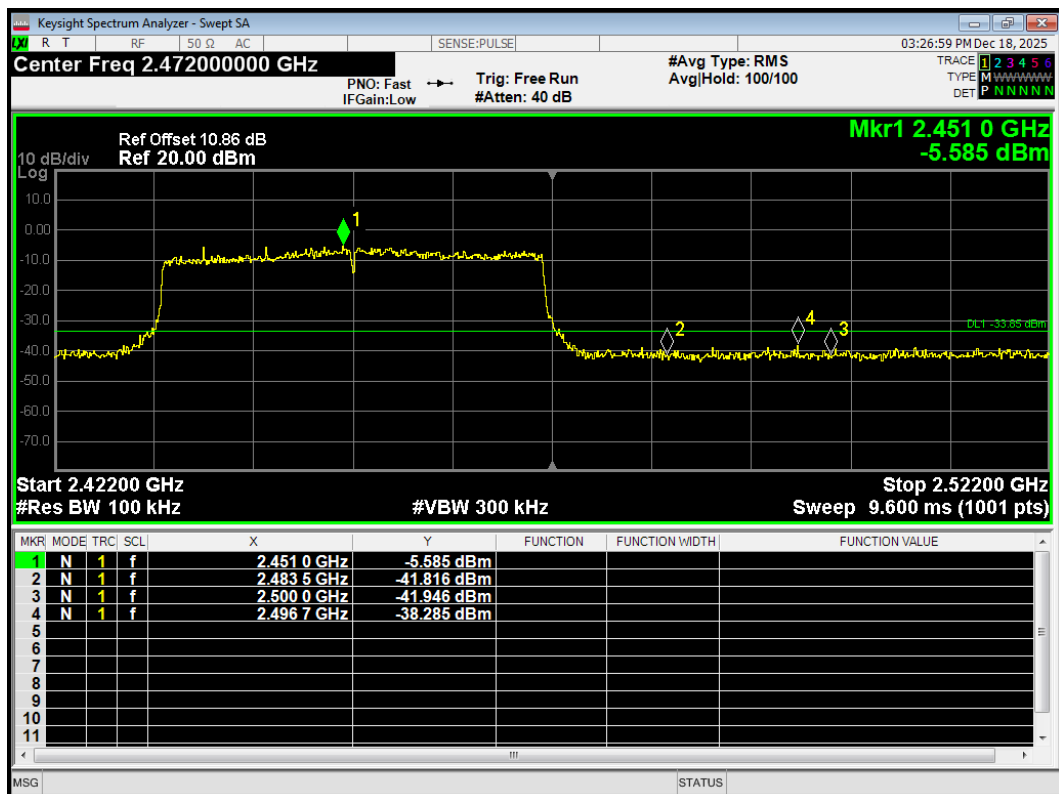


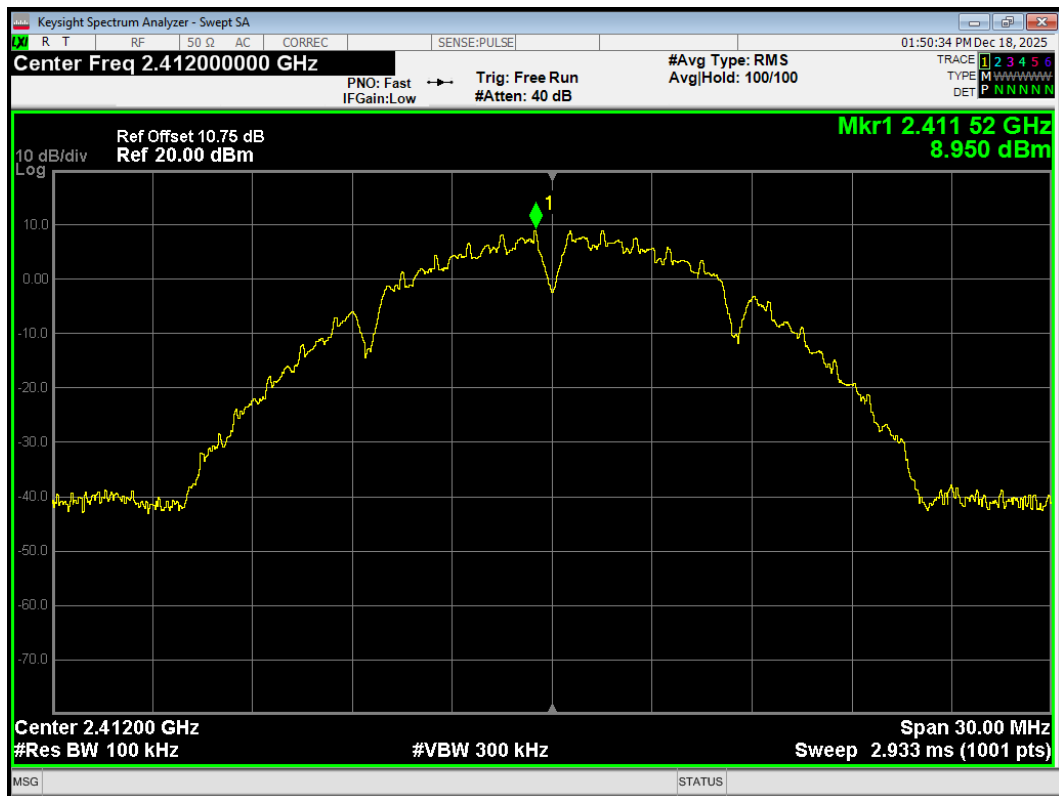
Band Edge 802.11ax(HE40) 2452MHz Ref



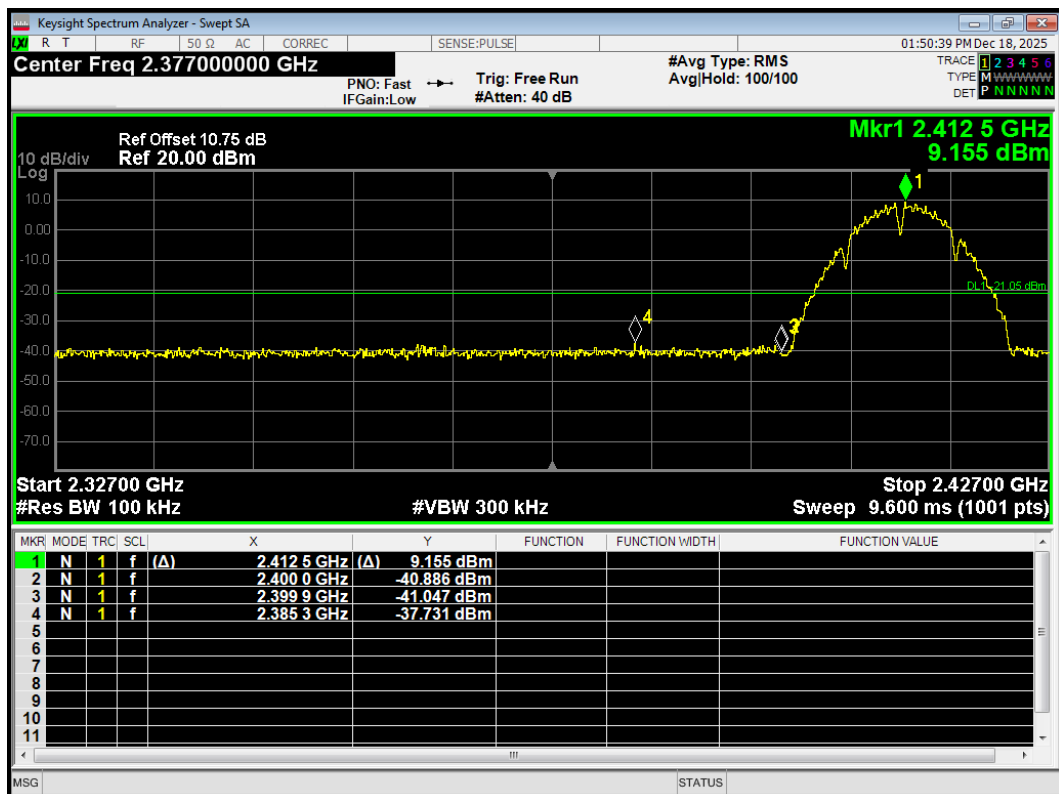
Band Edge 802.11ax(HE40) 2452MHz Emission



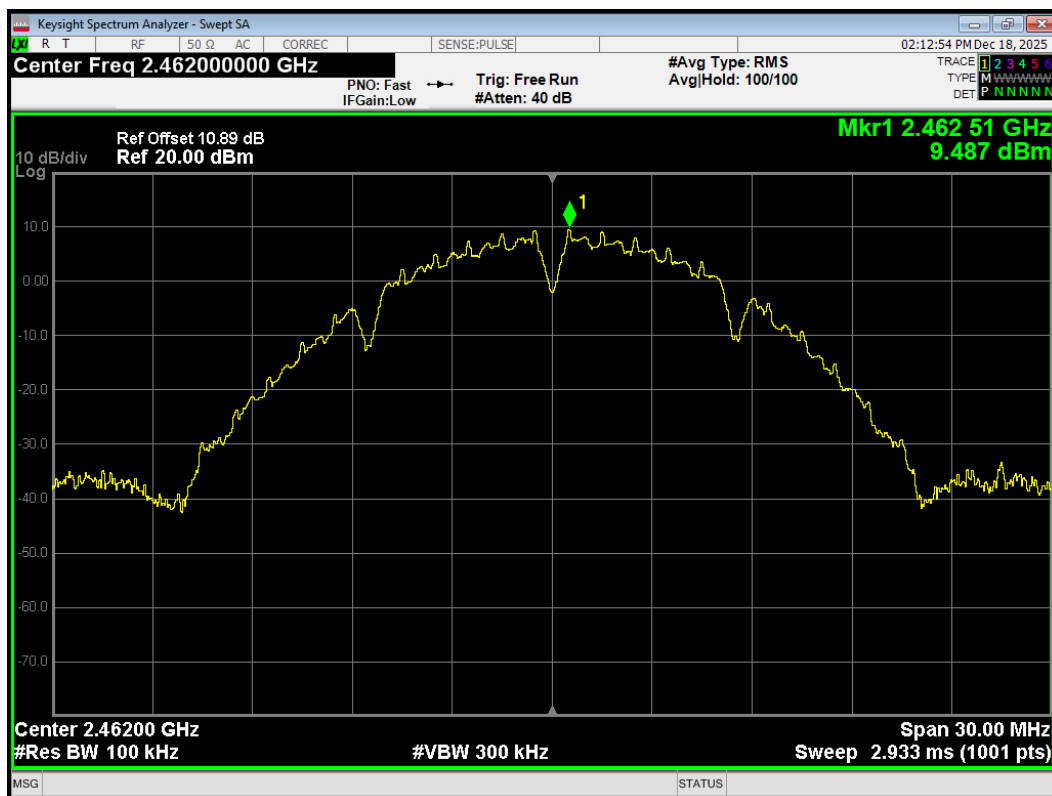
Band Edge 802.11b 2412MHz Ref



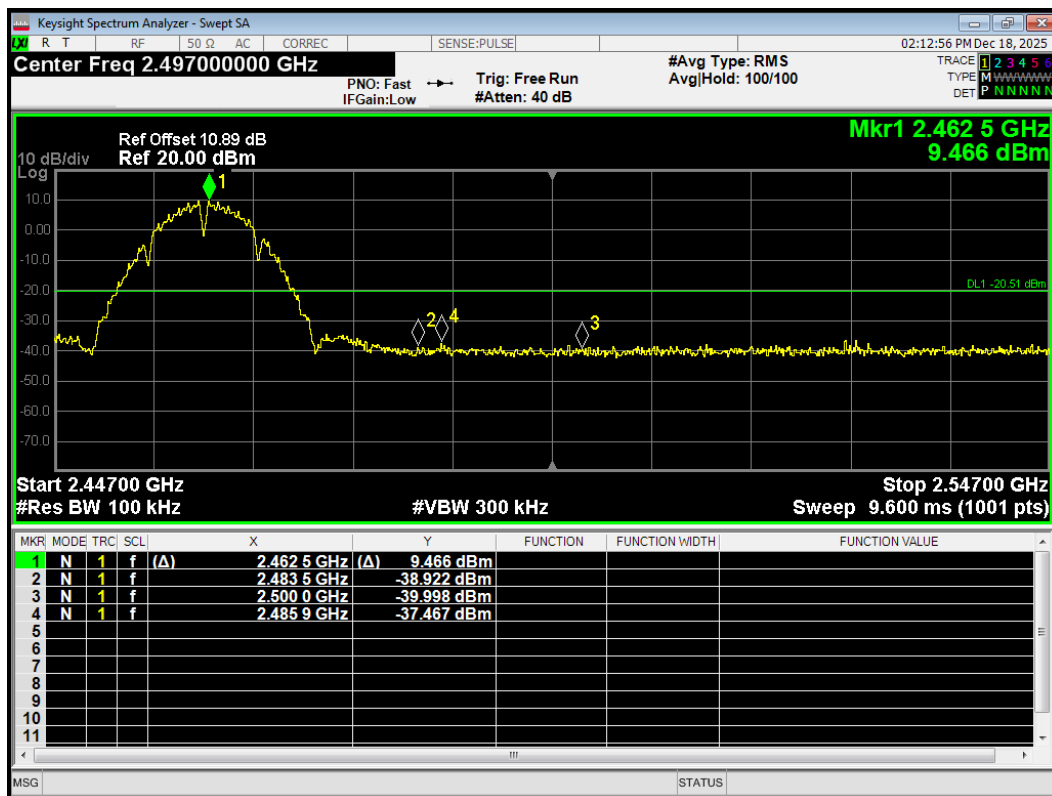
Band Edge 802.11b 2412MHz Emission



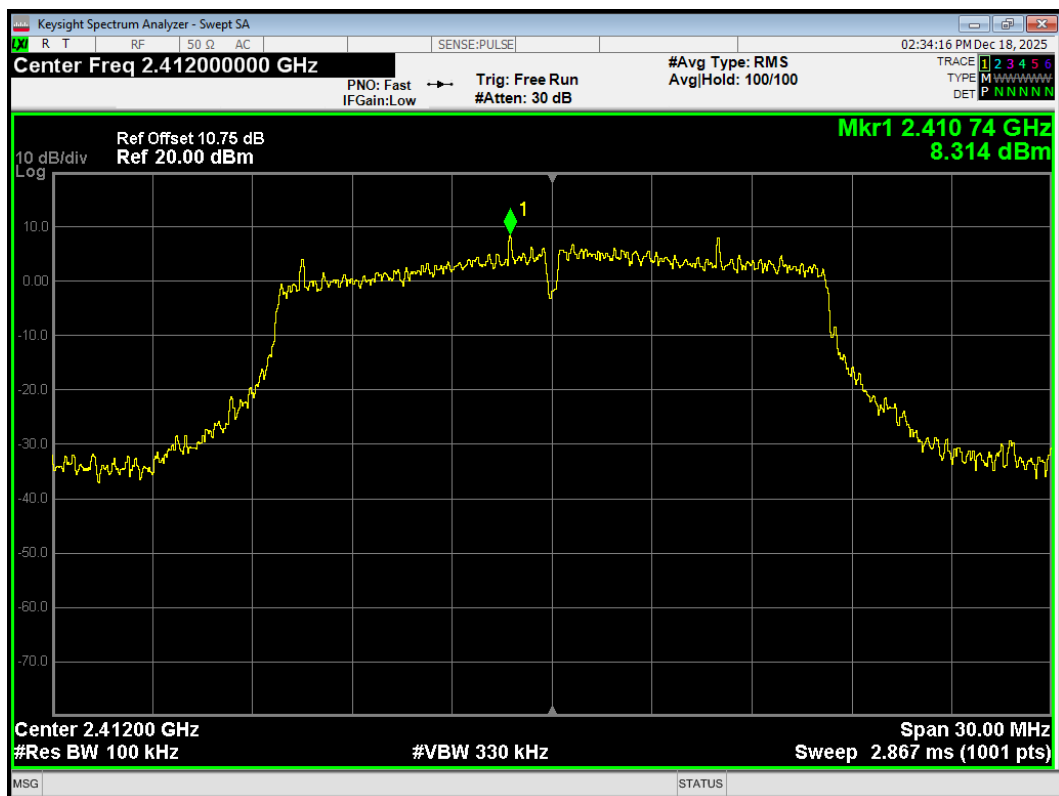
Band Edge 802.11b 2462MHz Ref



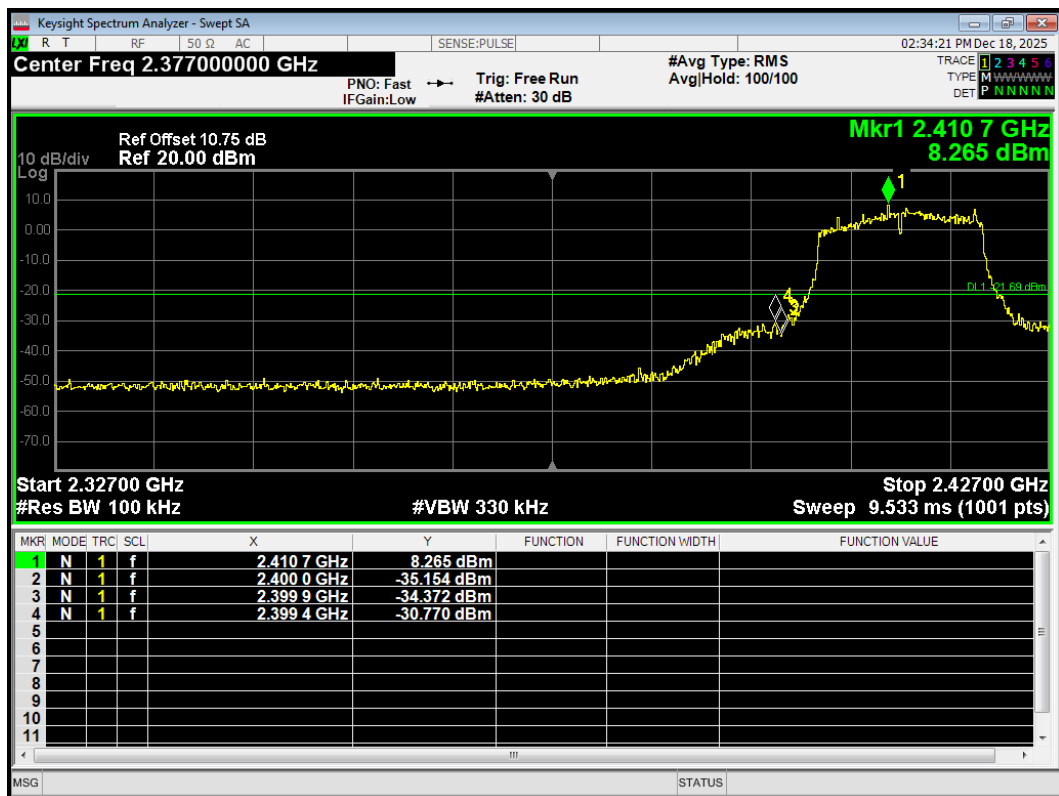
Band Edge 802.11b 2462MHz Emission



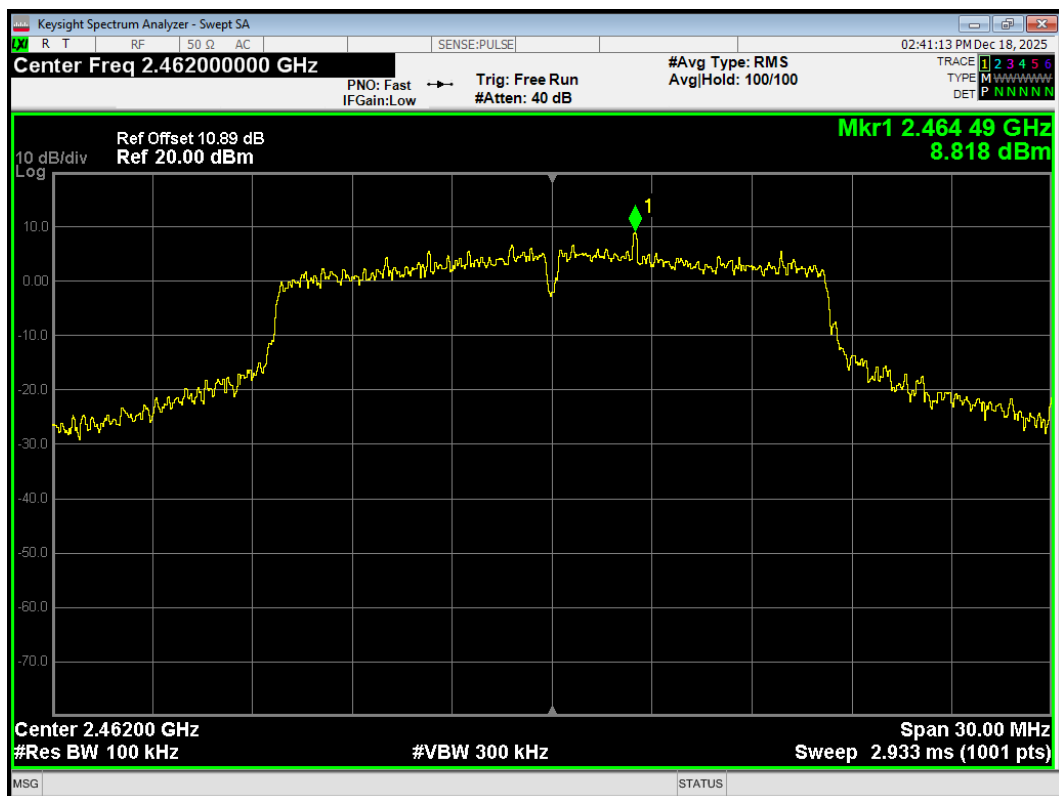
Band Edge 802.11g 2412MHz Ref



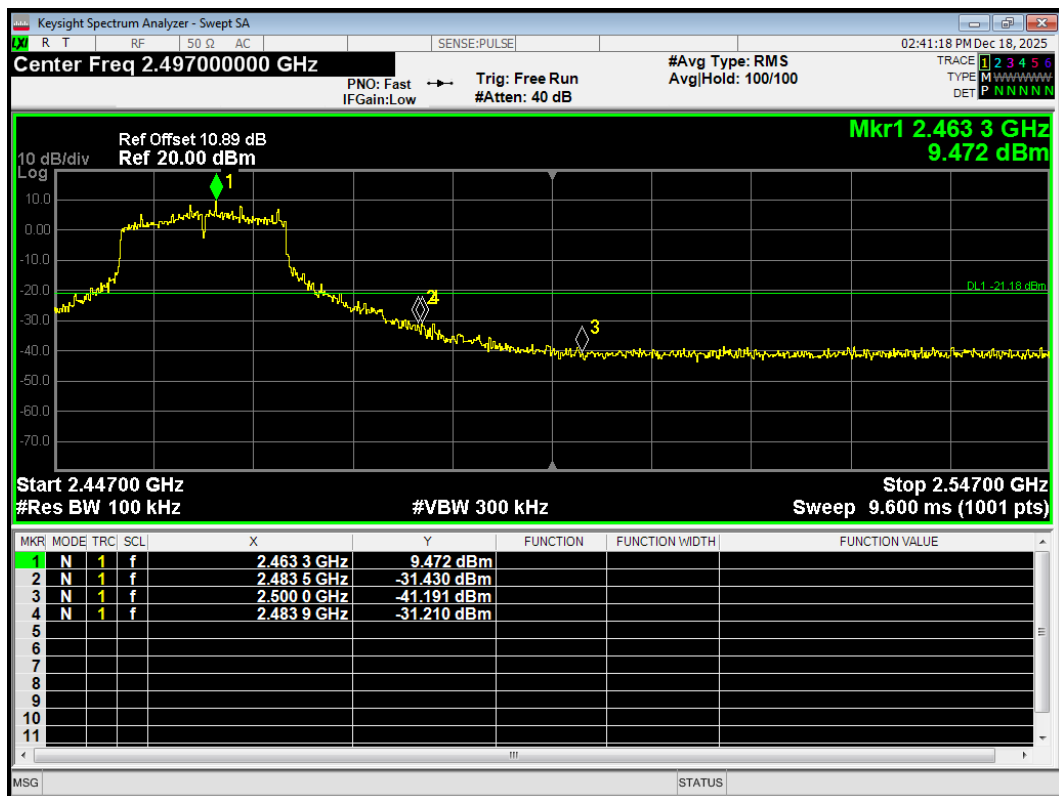
Band Edge 802.11g 2412MHz Emission



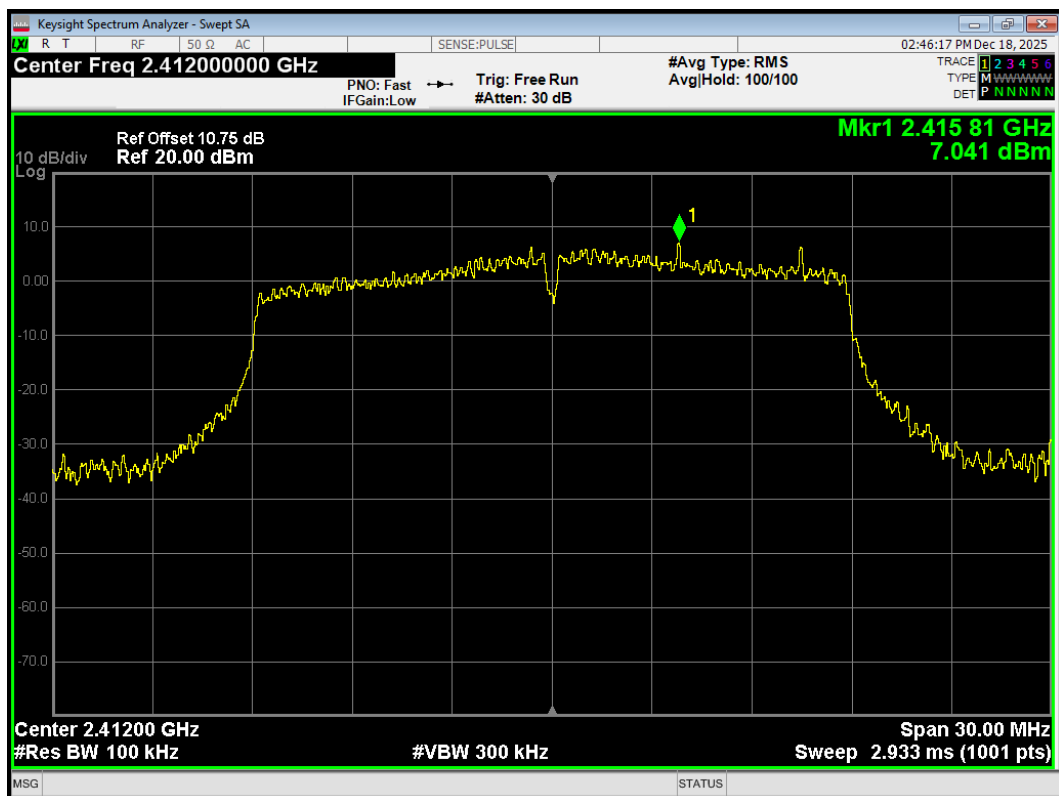
Band Edge 802.11g 2462MHz Ref



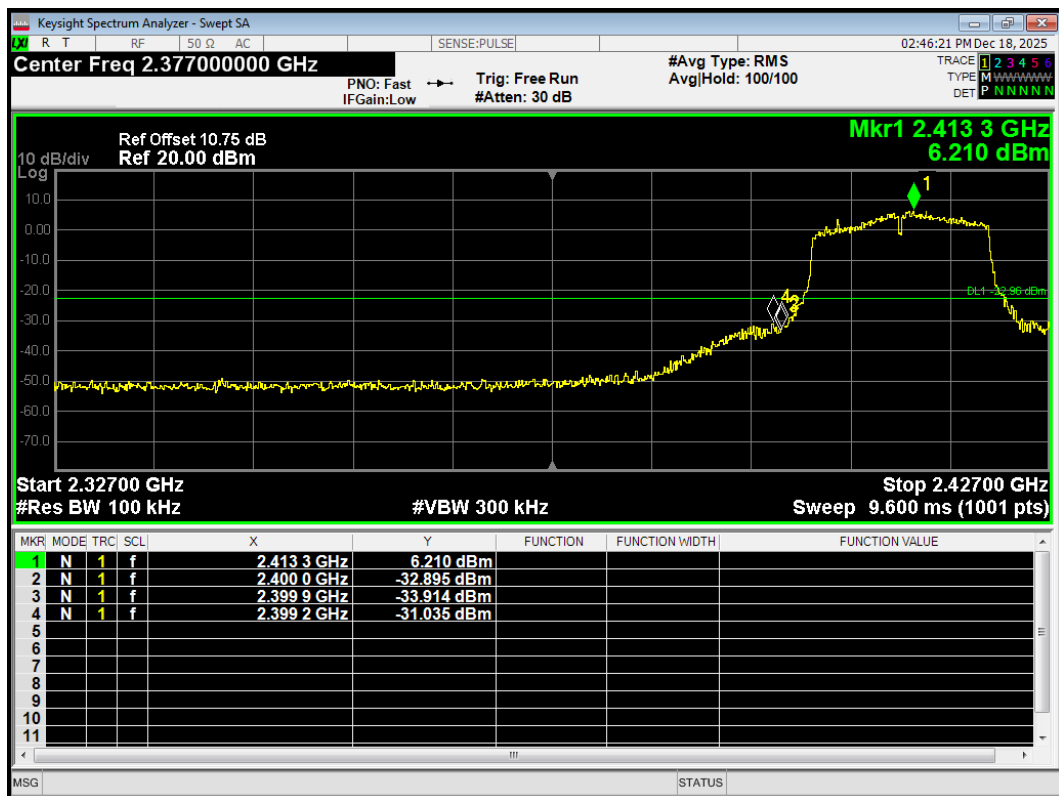
Band Edge 802.11g 2462MHz Emission



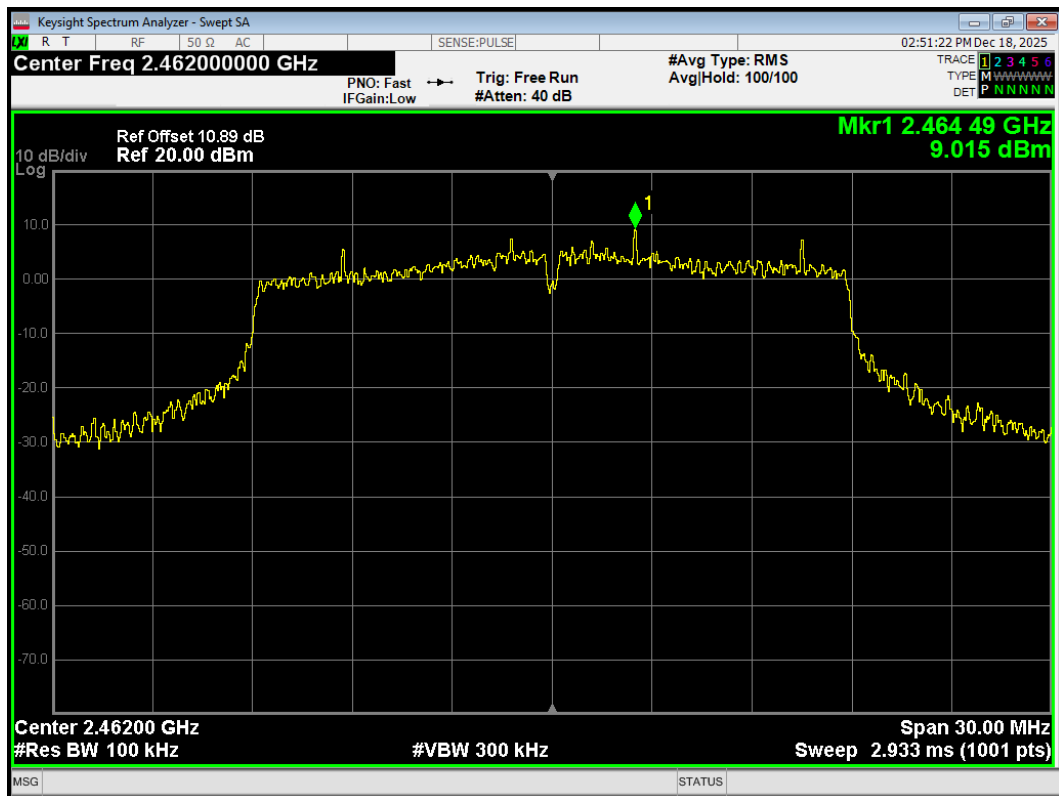
Band Edge 802.11n(HT20) 2412MHz Ref



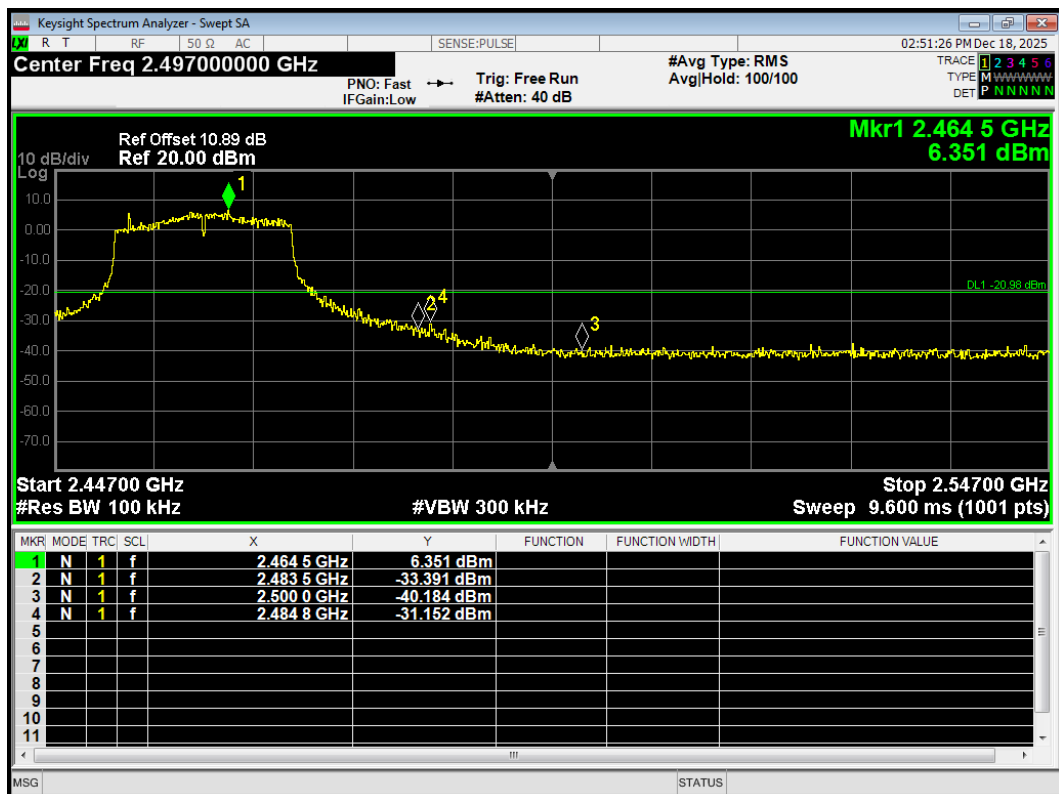
Band Edge 802.11n(HT20) 2412MHz Emission



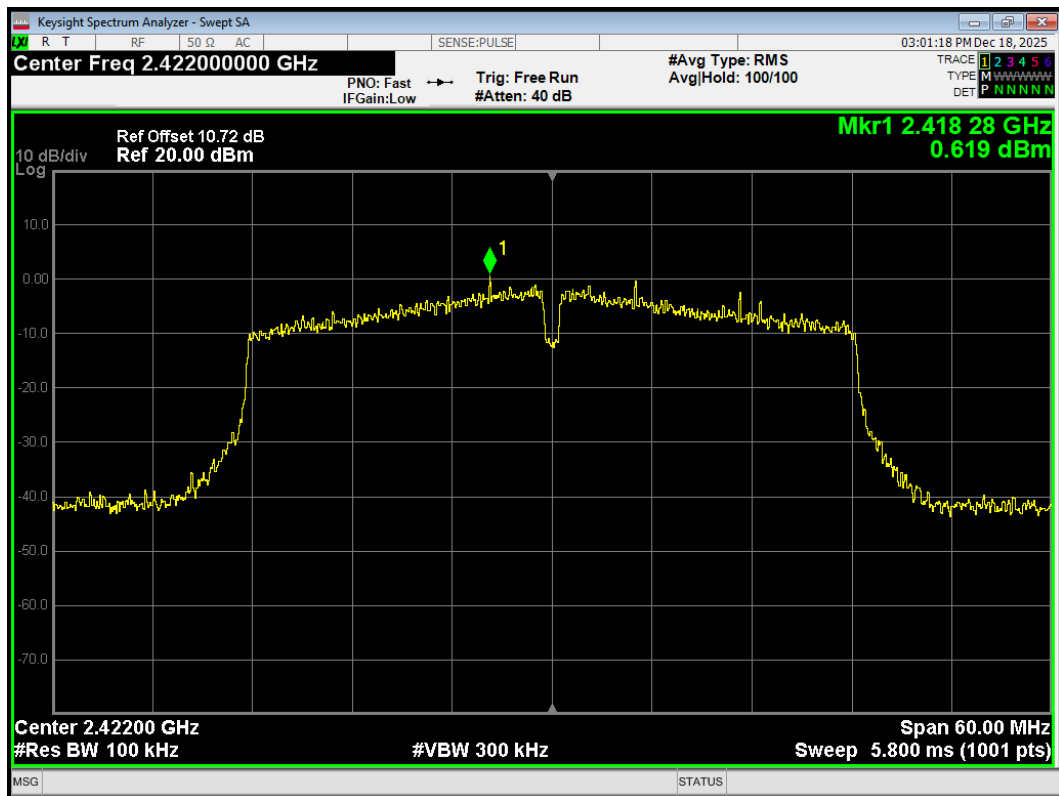
Band Edge 802.11n(HT20) 2462MHz Ref



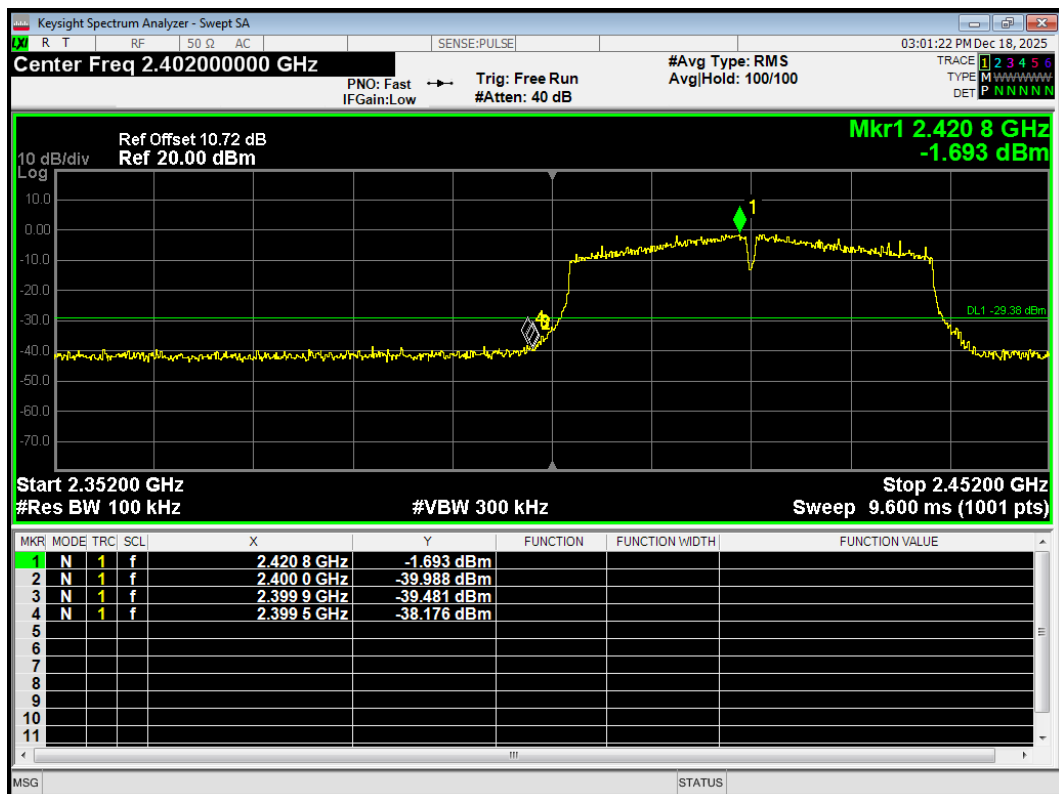
Band Edge 802.11n(HT20) 2462MHz Emission



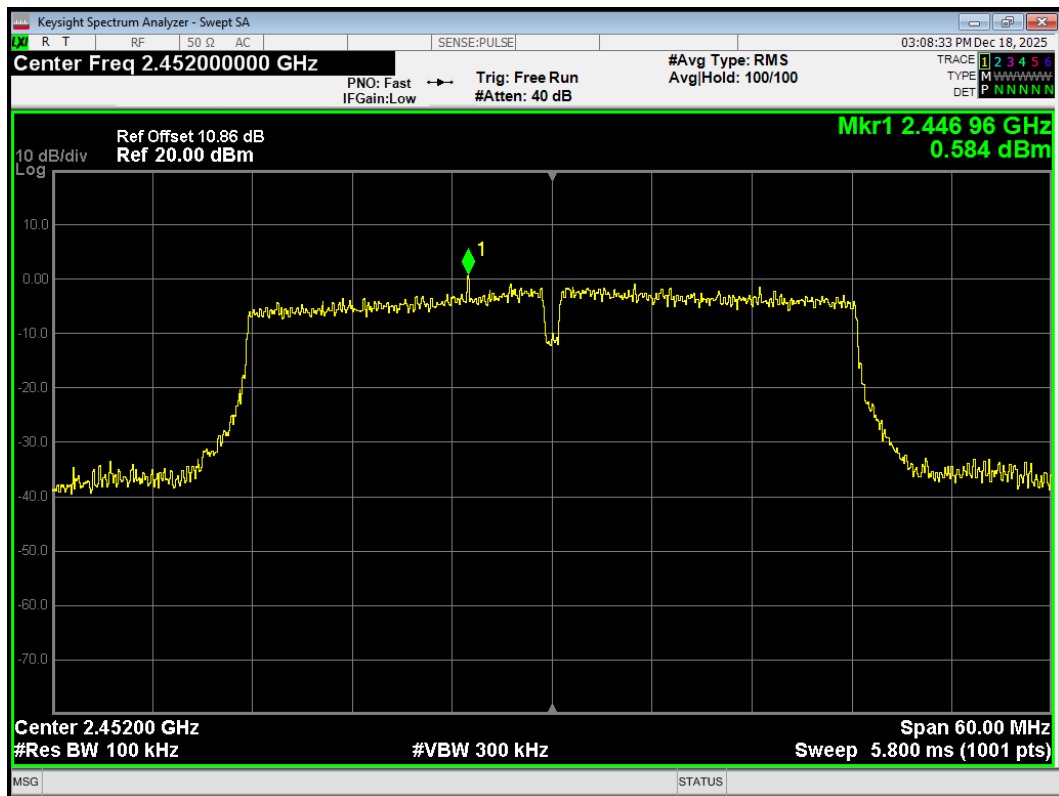
Band Edge 802.11n(HT40) 2422MHz Ref



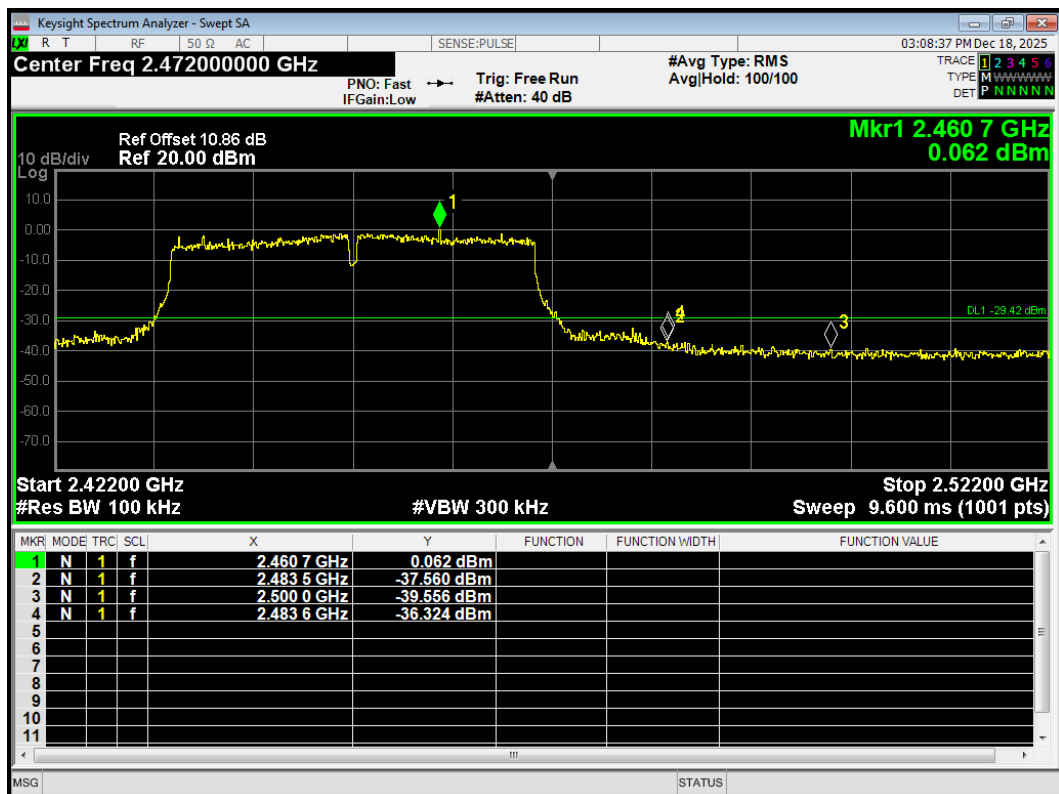
Band Edge 802.11n(HT40) 2422MHz Emission



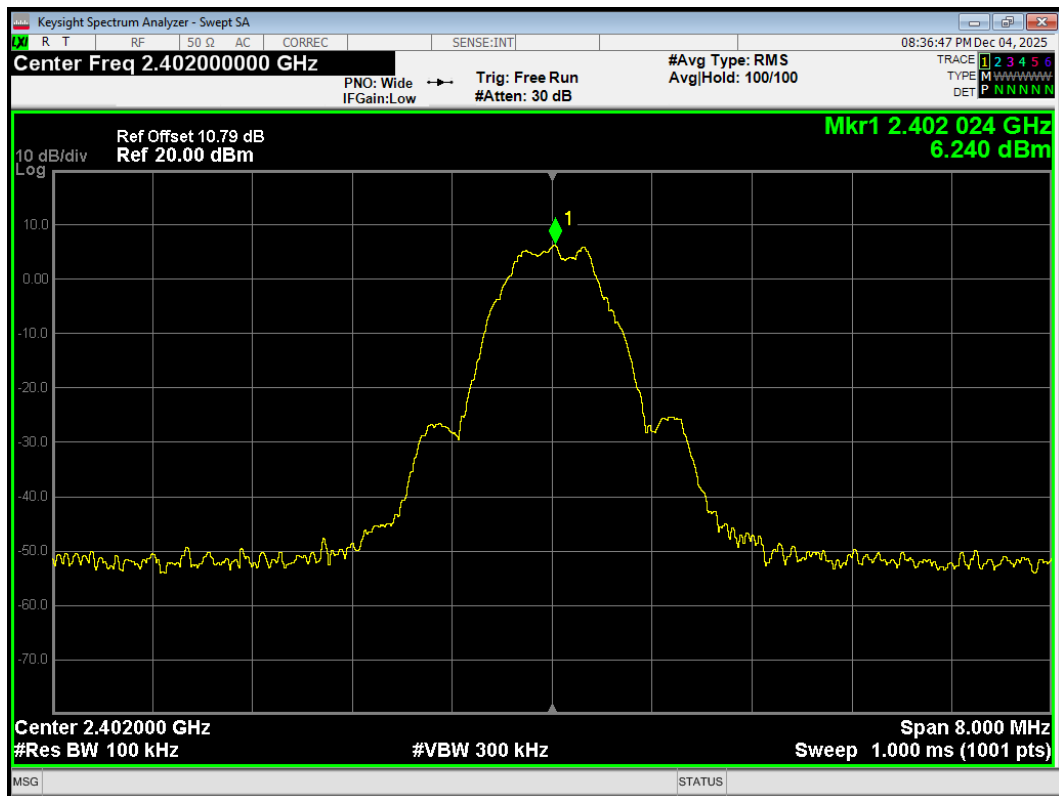
Band Edge 802.11n(HT40) 2452MHz Ref



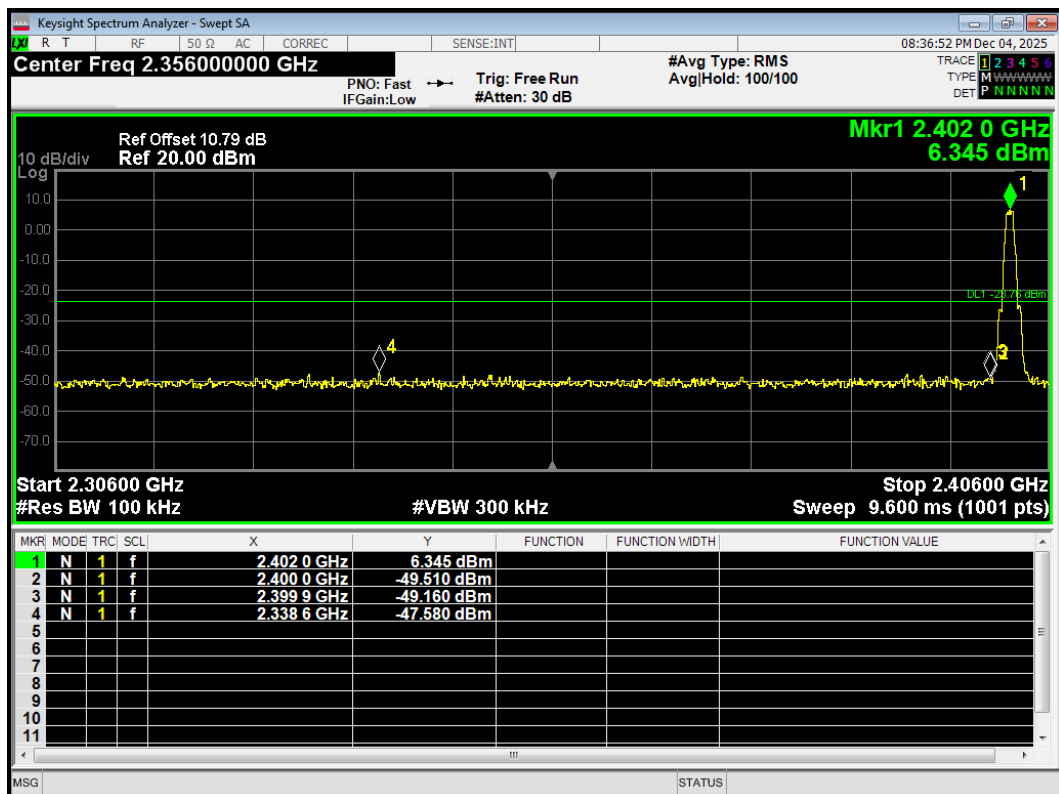
Band Edge 802.11n(HT40) 2452MHz Emission



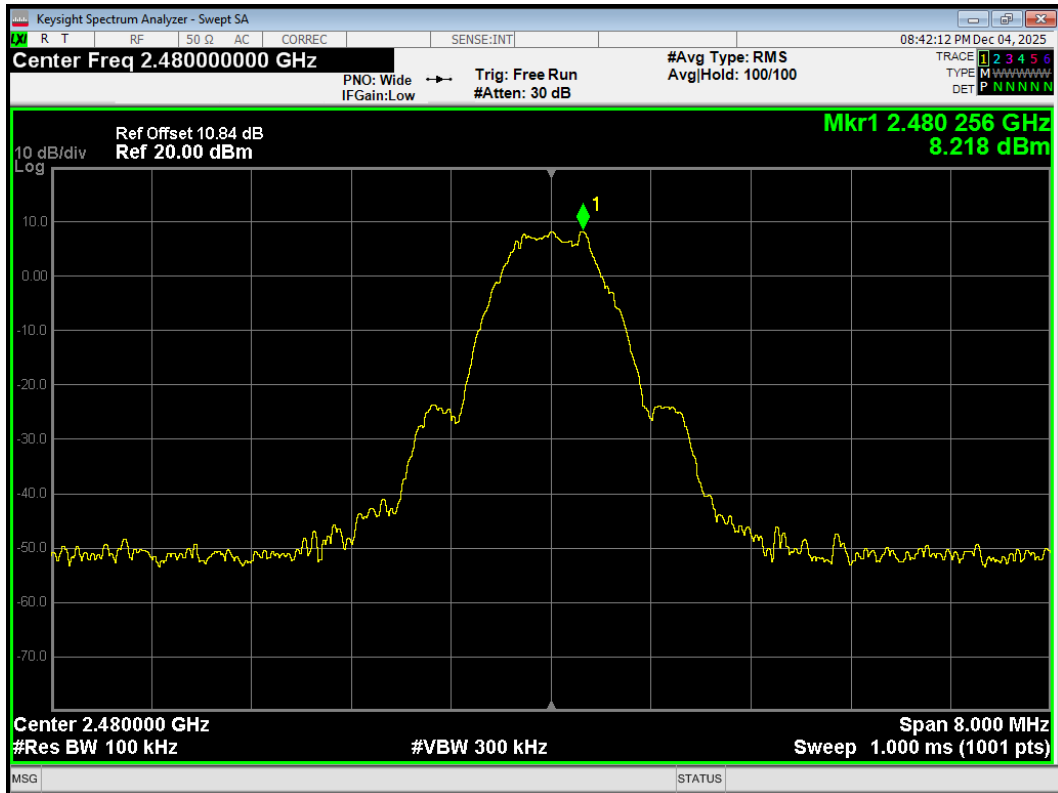
Band Edge BLE (1M) 2402MHz Ref



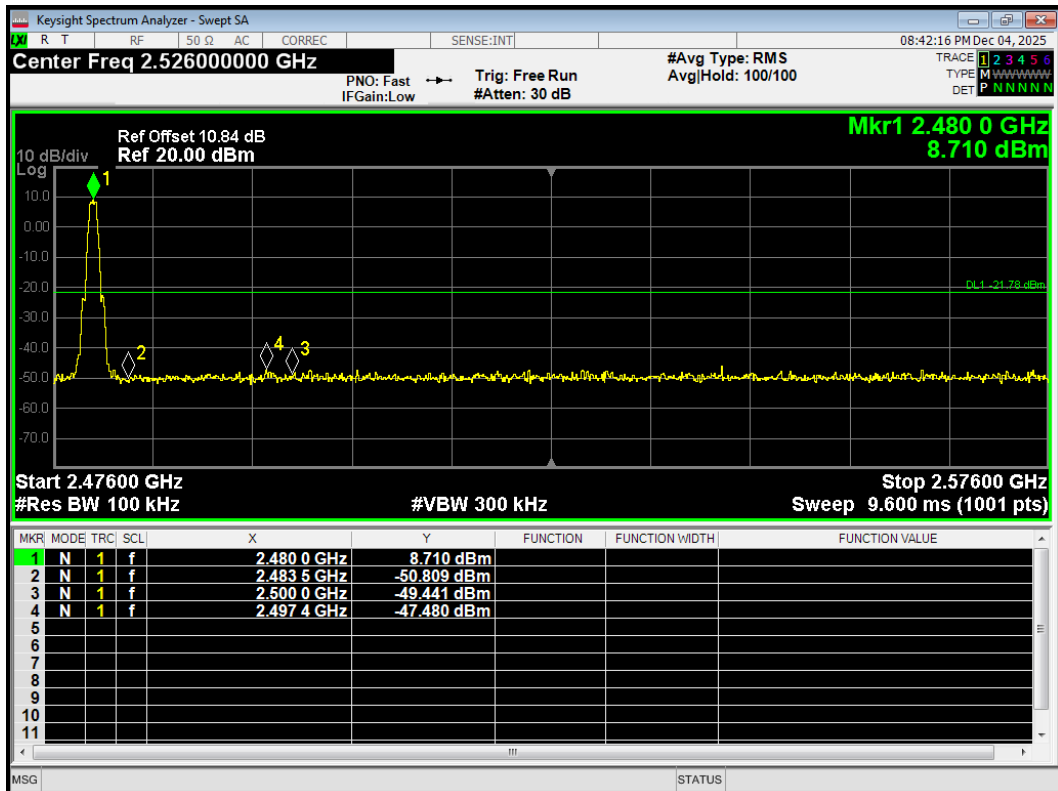
Band Edge BLE (1M) 2402MHz Emission



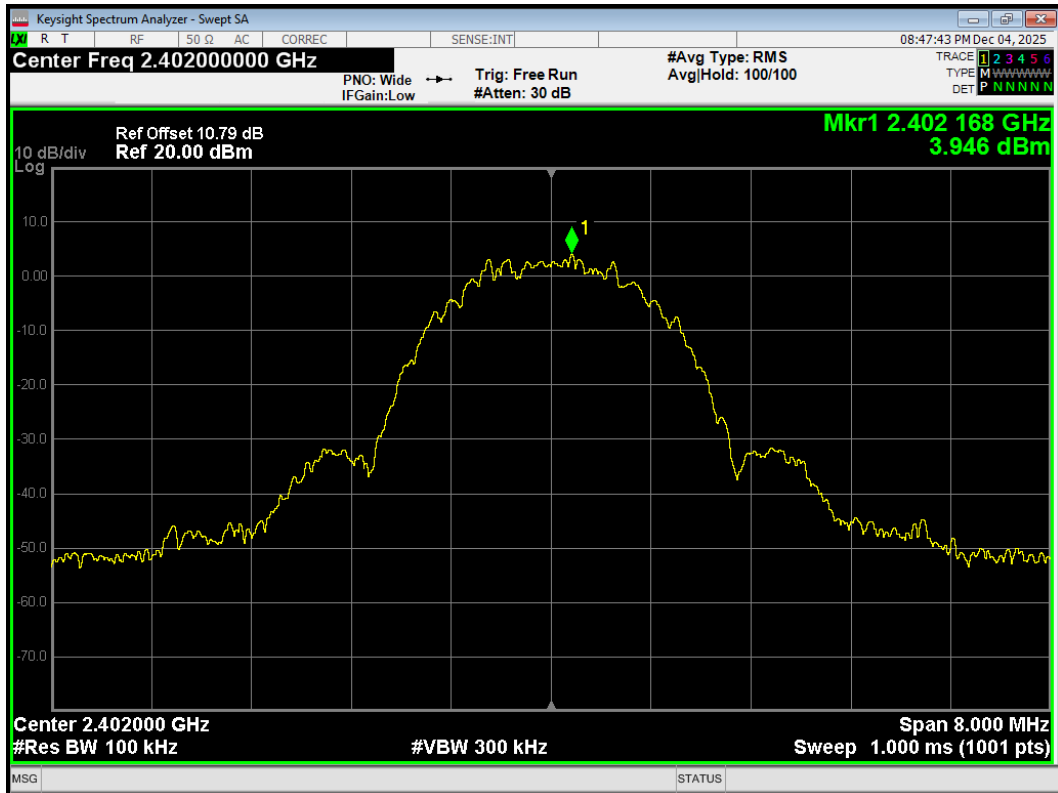
Band Edge BLE (1M) 2480MHz Ref



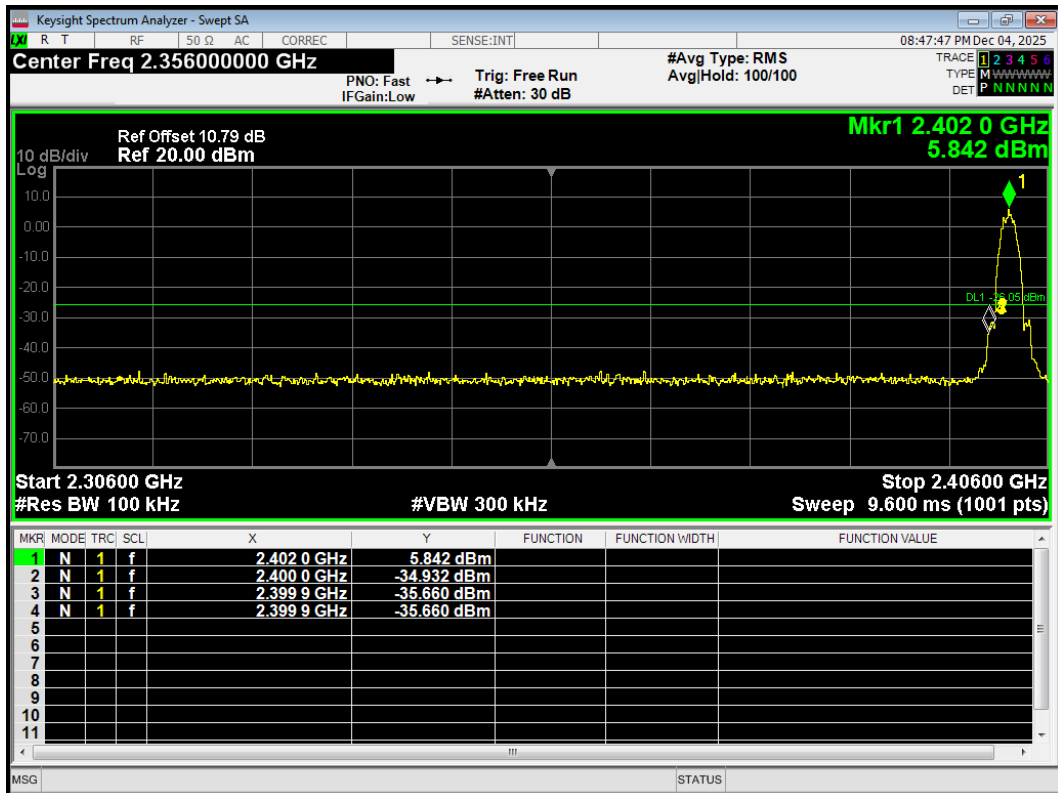
Band Edge BLE (1M) 2480MHz Emission



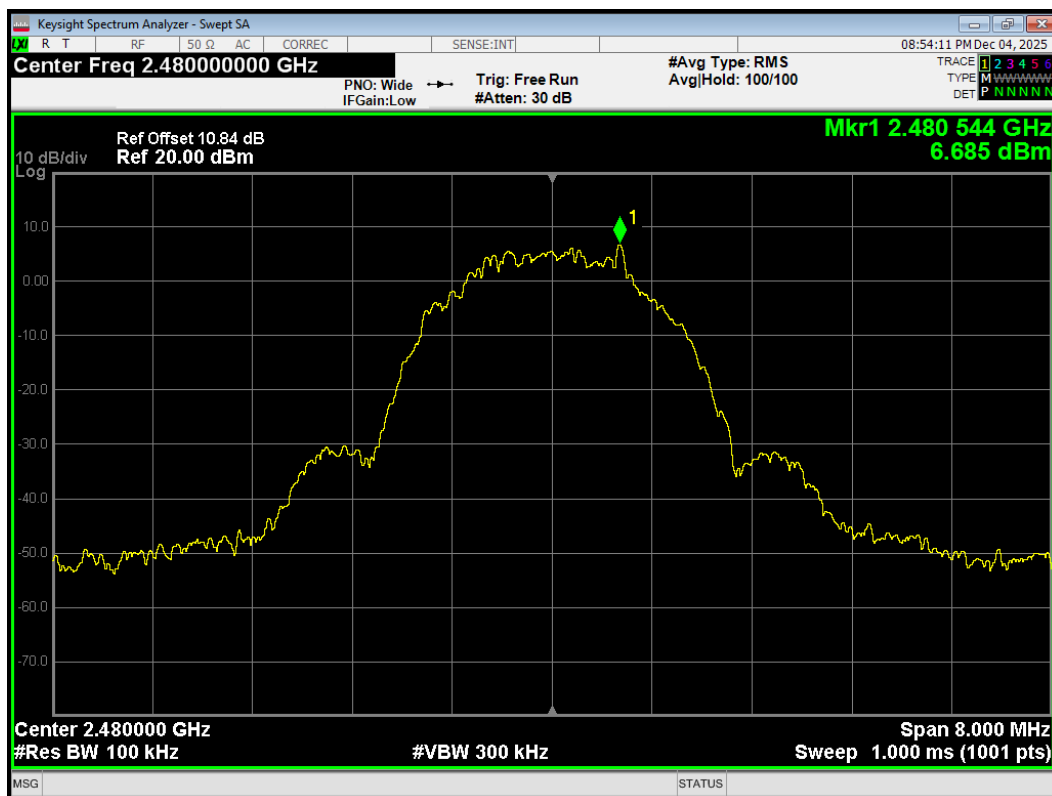
Band Edge BLE (2M) 2402MHz Ref



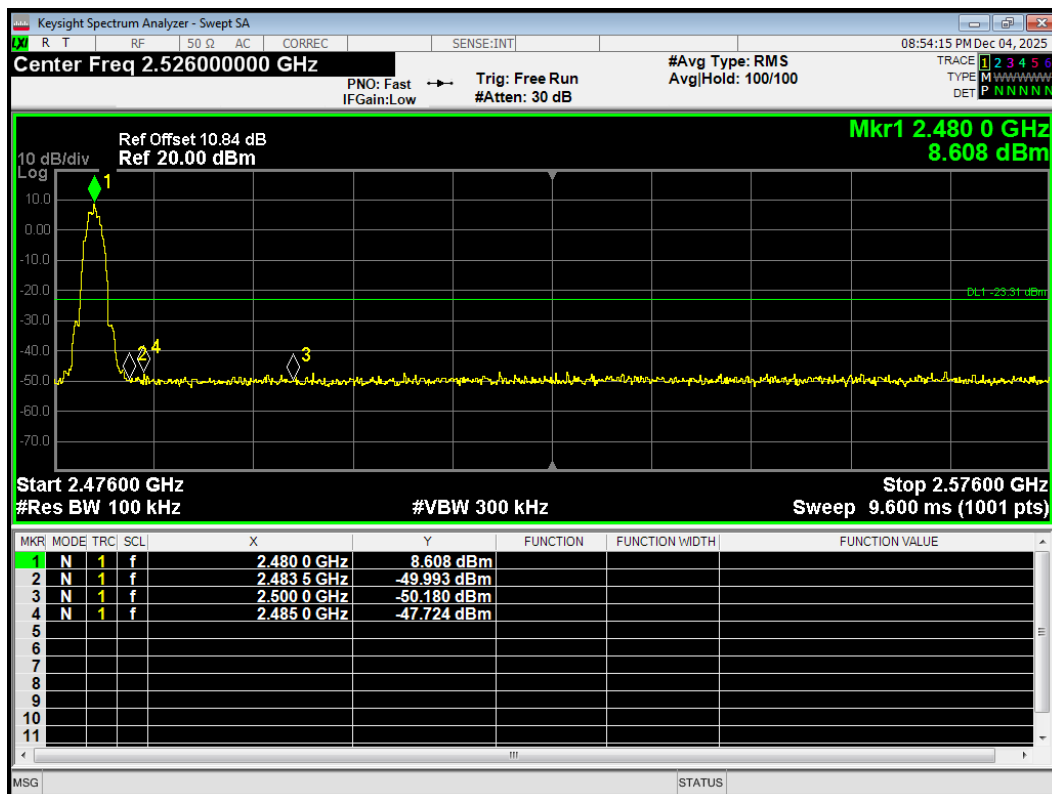
Band Edge BLE (2M) 2402MHz Emission



Band Edge BLE (2M) 2480MHz Ref



Band Edge BLE (2M) 2480MHz Emission



6.4. Power Spectral Density

MIMO

Test Mode	Carrier frequency (MHz)/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclusion
		Antenna 1		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	-5.04	-15.04	-2.95	-12.95	-10.86	8	PASS
	2437/CH 6	-3.67	-13.67	-4.46	-14.46	-11.04	8	PASS
	2462/CH11	-3.27	-13.27	-2.33	-12.33	-9.76	8	PASS
802.11g	2412/CH 1	-6.94	-16.94	-3.16	-13.16	-11.64	8	PASS
	2437/CH 6	-5.42	-15.42	-6.49	-16.49	-12.91	8	PASS
	2462/CH11	-5.28	-15.28	-3.58	-13.58	-11.34	8	PASS
802.11n HT20	2412/CH 1	-7.42	-17.42	-3.97	-13.97	-12.35	8	PASS
	2437/CH 6	-6.34	-16.34	-6.89	-16.89	-13.60	8	PASS
	2462/CH11	-5.70	-15.70	-3.25	-13.25	-11.29	8	PASS
802.11n HT40	2422/CH3	-11.19	-21.19	-11.00	-21.00	-18.08	8	PASS
	2437/CH6	-10.14	-20.14	-11.09	-21.09	-17.58	8	PASS
	2452/CH9	-10.15	-20.15	-11.10	-21.10	-17.59	8	PASS
802.11ax HE20	2412/CH 1	-13.97	-23.97	-12.57	-22.57	-20.20	8	PASS
	2437/CH 6	-12.34	-22.34	-12.59	-22.59	-19.45	8	PASS
	2462/CH11	-10.82	-20.82	-12.08	-22.08	-18.39	8	PASS
802.11ax HE40	2422/CH3	-16.13	-26.13	-16.27	-26.27	-23.19	8	PASS
	2437/CH6	-15.94	-25.94	-15.99	-25.99	-22.95	8	PASS
	2452/CH9	-14.64	-24.64	-16.86	-26.86	-22.60	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),the power spectral density= $10\log(10^{(PSD_{antenna1} \text{ in dBm/10})} + 10^{(PSD_{antenna2} \text{ in dBm/10})})$.

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

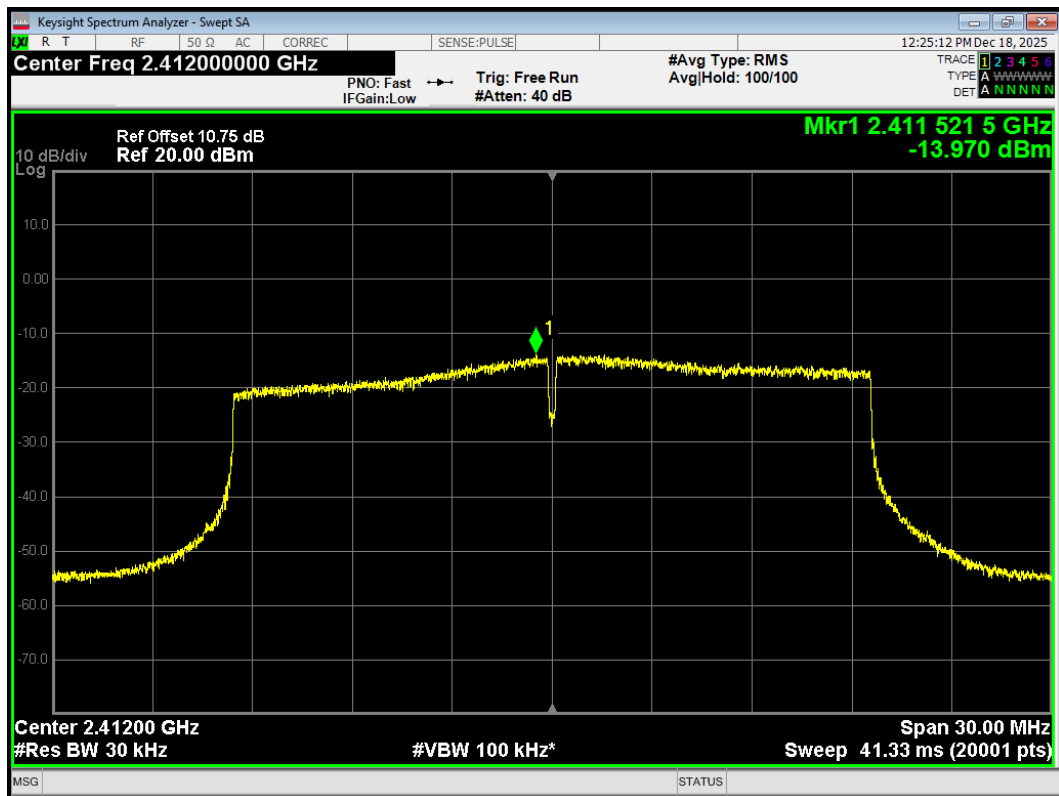
Directional gain = $G_{ANT \text{ MAX}} + \text{Array Gain}$. For PSD measurements on all devices, $\text{Array Gain} = 10\log(N_{ant}/N_{ss})\text{dB}$, so directional gain = $G_{ANT \text{ MAX}} + \text{Array Gain} = 2.28 + 10\log(2/1) = 5.29\text{dBi} < 6\text{dBi}$.

So the PSD limit is $8 + 6 - \text{MAX}(6, \text{directional gain}) \text{ dBm} = 8 \text{ dBm} / 3\text{kHz}$

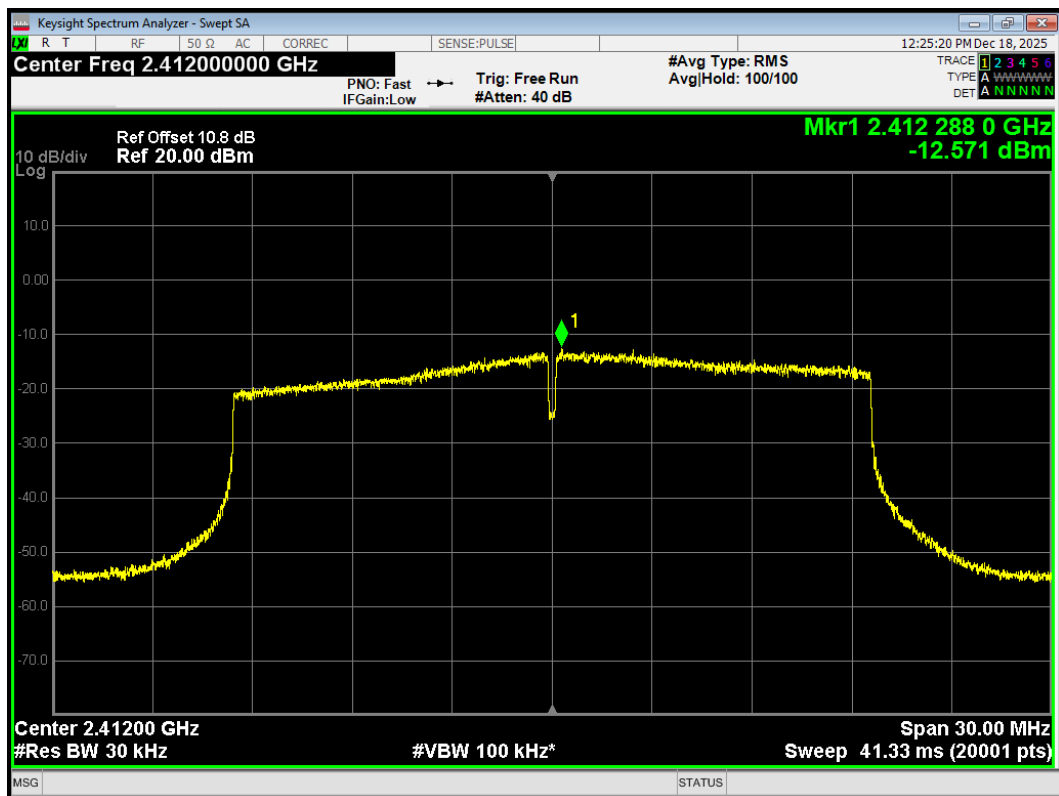
Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
Bluetooth (Low Energy) (1M)	2402/CH0	-12.35	-10.31	8	PASS
	2440/CH19	-12.36	-10.32	8	PASS
	2480/CH39	-9.67	-7.63	8	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	-19.25	-16.85	8	PASS
	2440/CH19	-19.80	-17.40	8	PASS
	2480/CH39	-17.33	-14.93	8	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

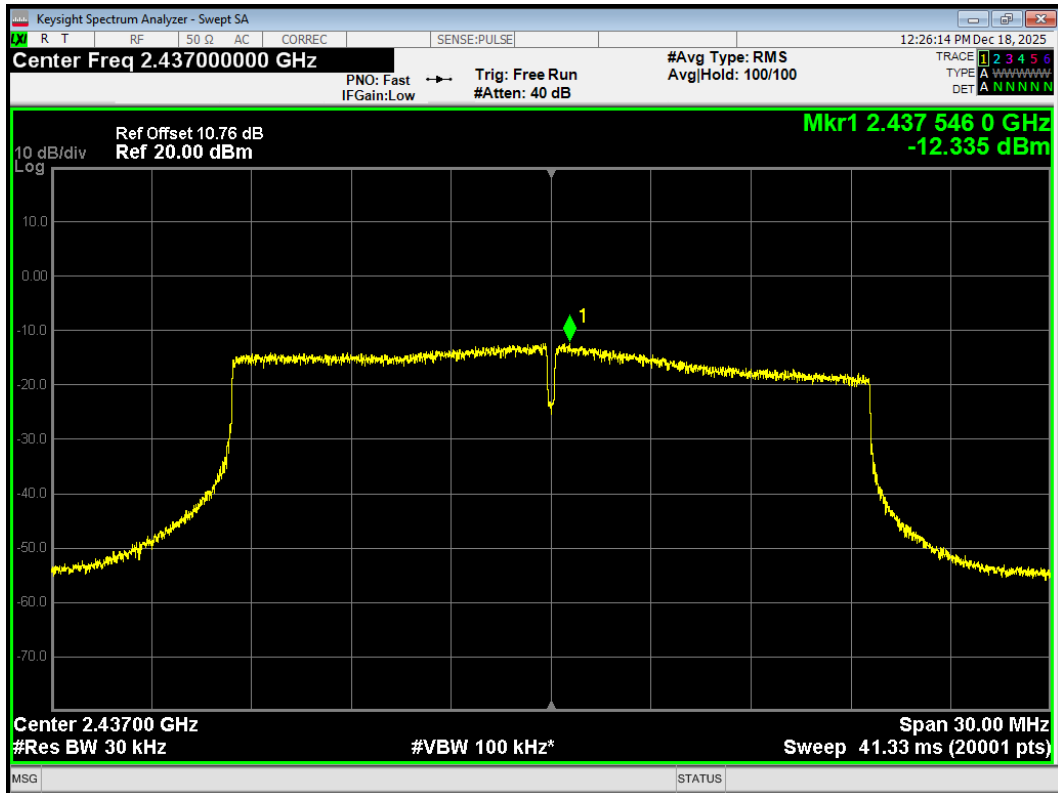
PSD 802.11ax(HE20) 2412MHz Ant1



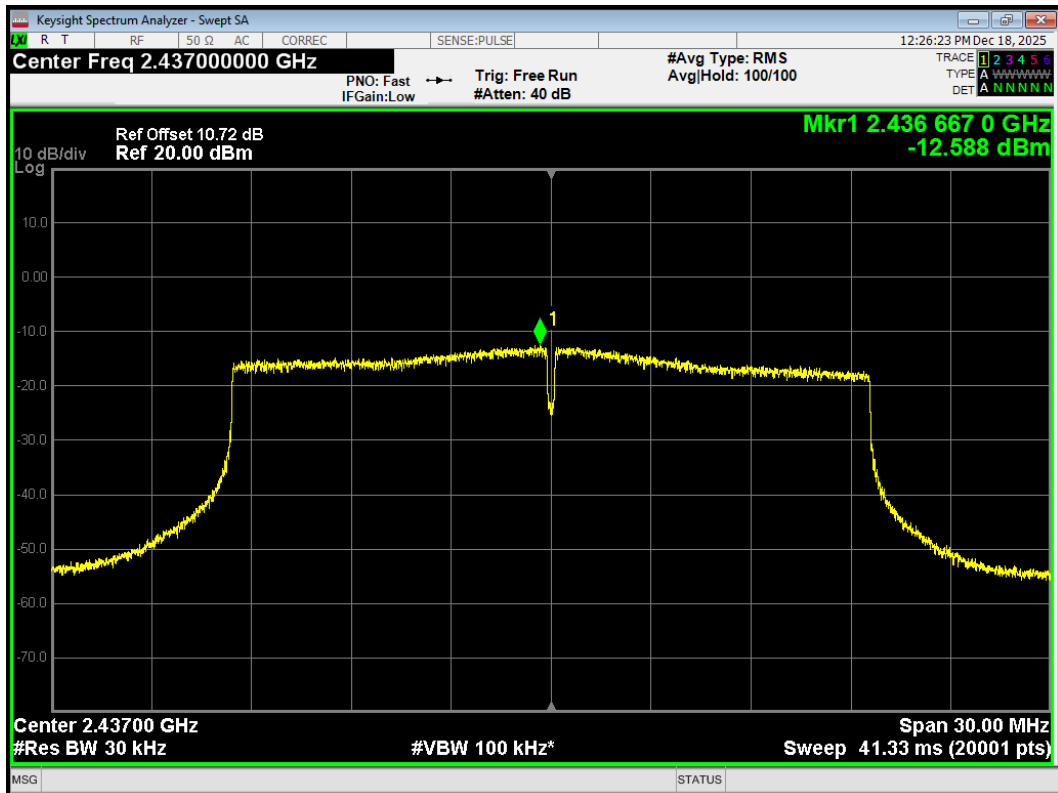
PSD 802.11ax(HE20) 2412MHz Ant2



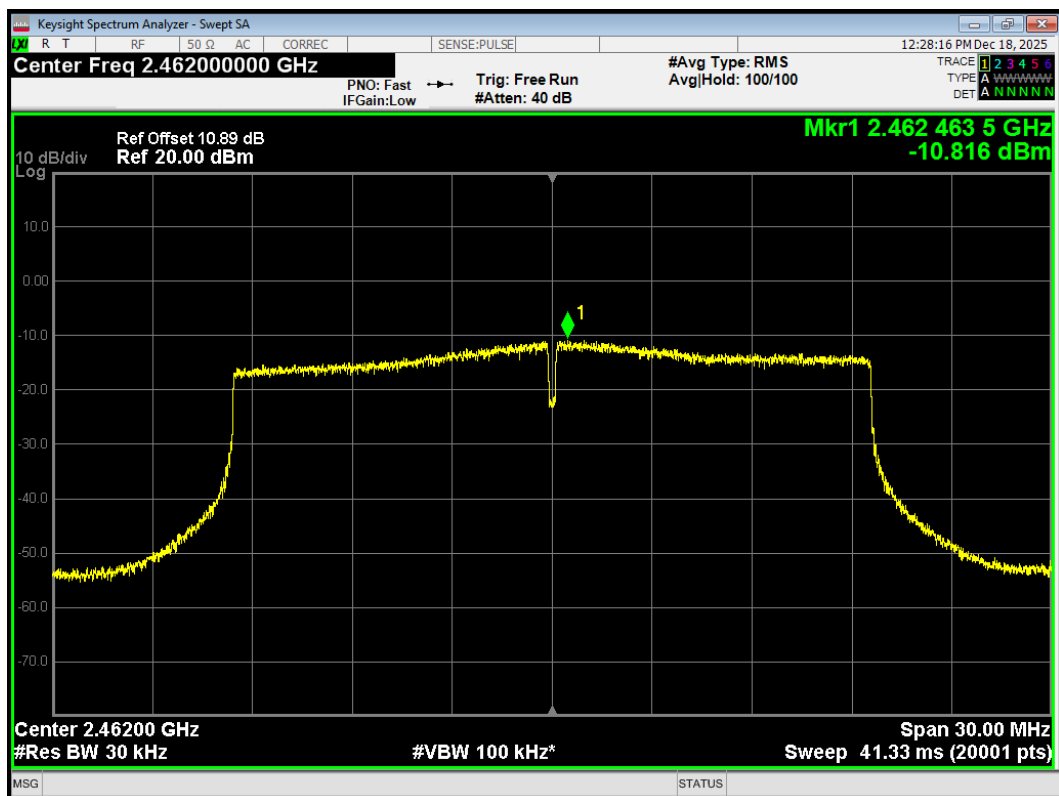
PSD 802.11ax(HE20) 2437MHz Ant1



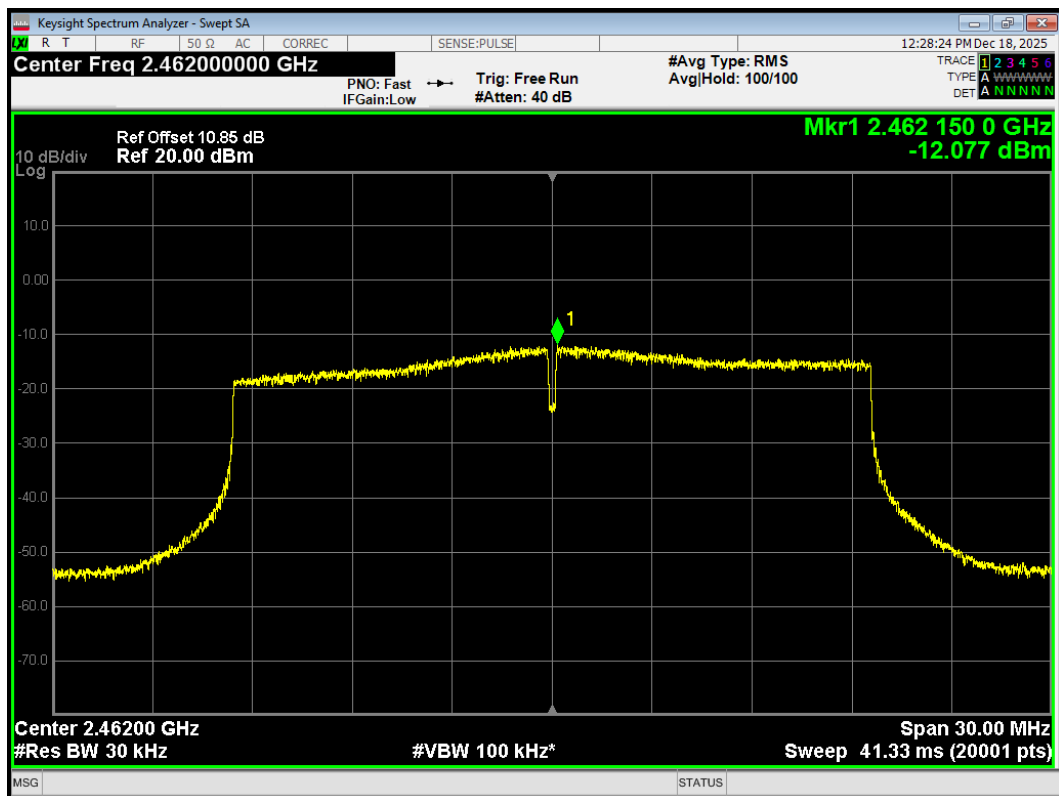
PSD 802.11ax(HE20) 2437MHz Ant2



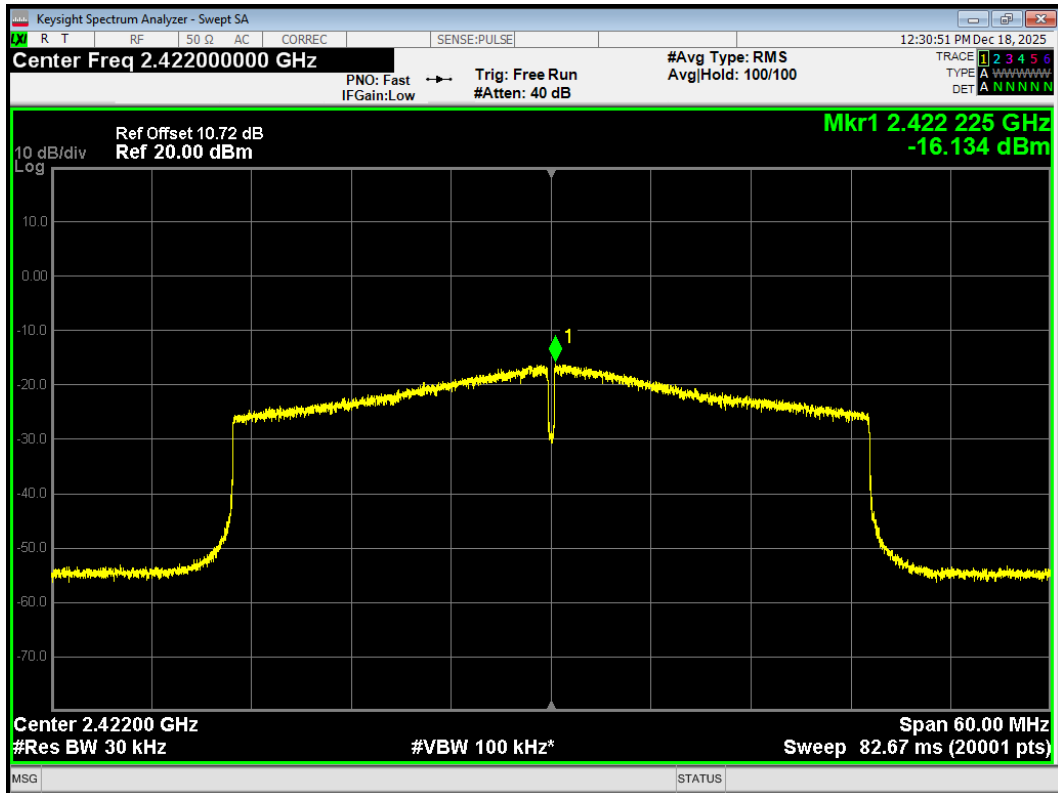
PSD 802.11ax(HE20) 2462MHz Ant1



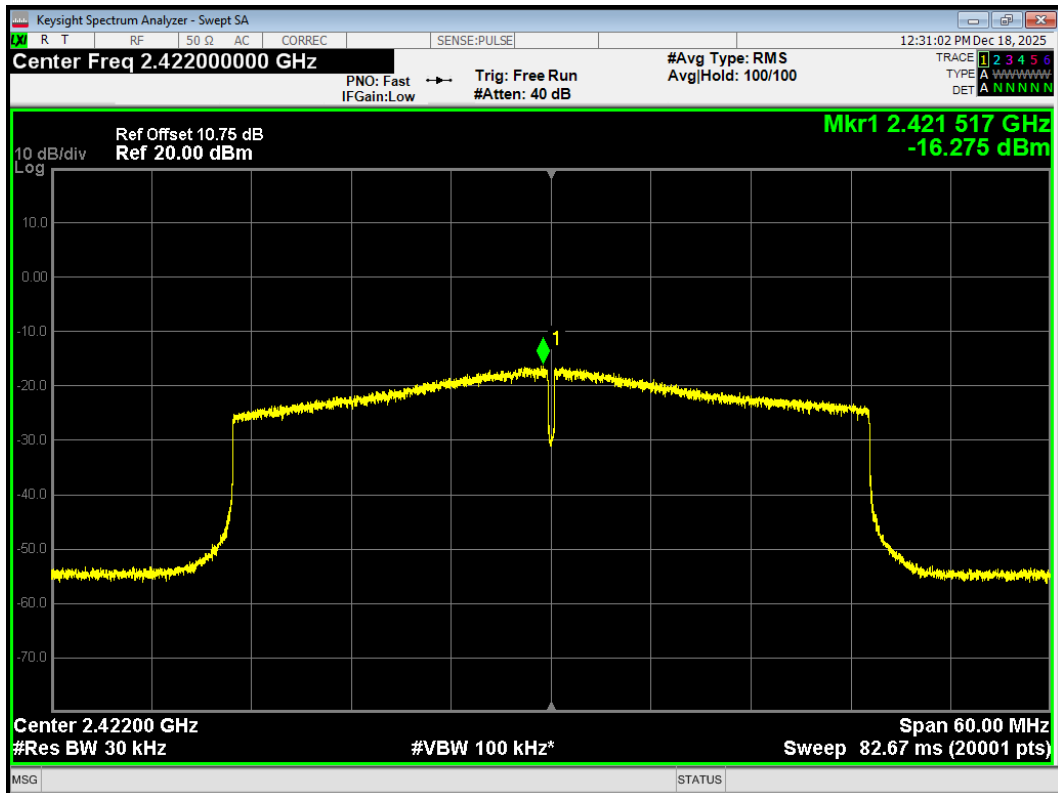
PSD 802.11ax(HE20) 2462MHz Ant2



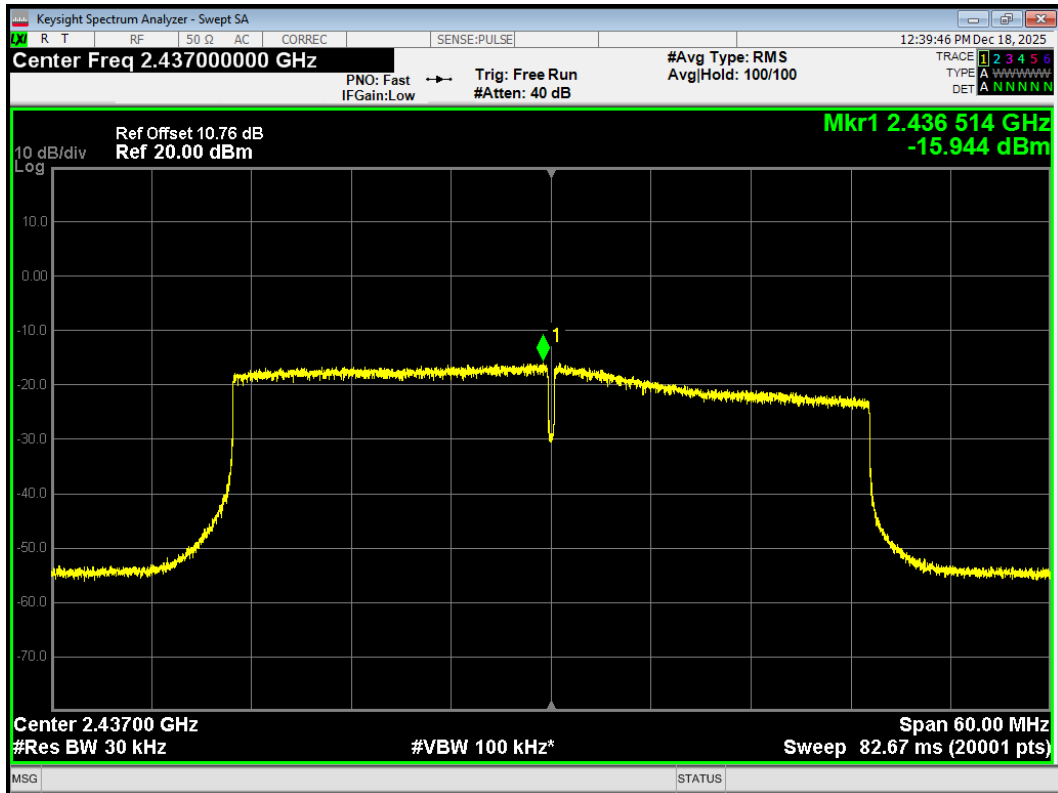
PSD 802.11ax(HE40) 2422MHz Ant1



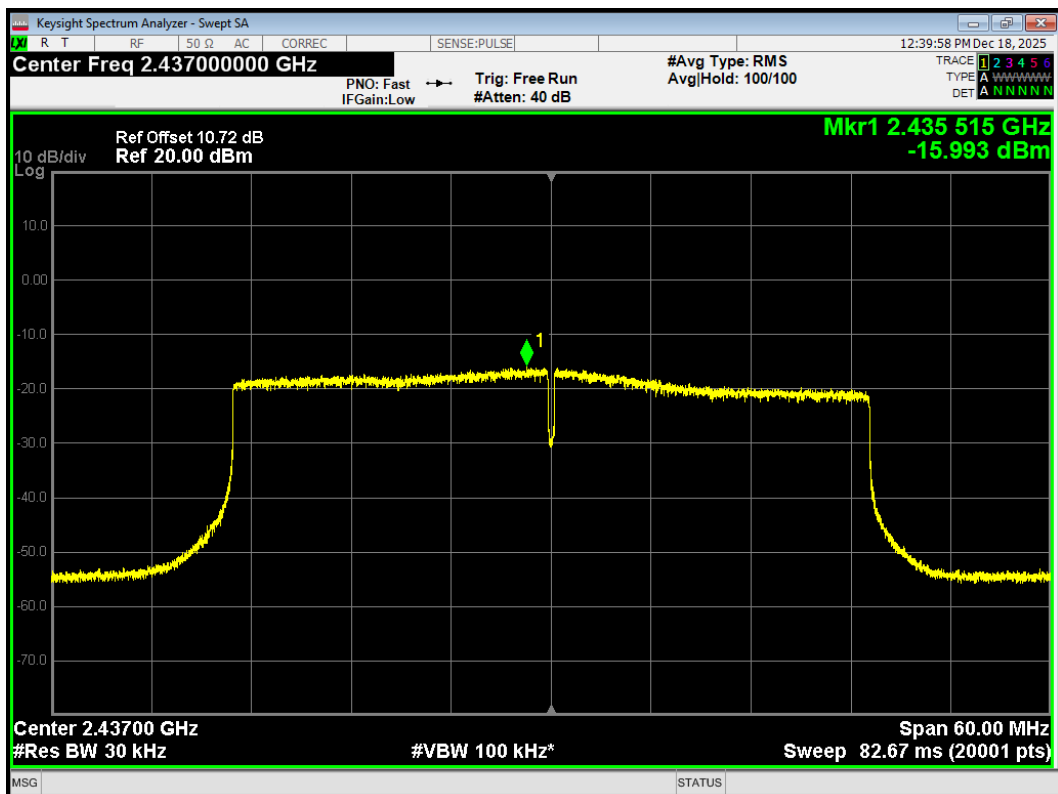
PSD 802.11ax(HE40) 2422MHz Ant2



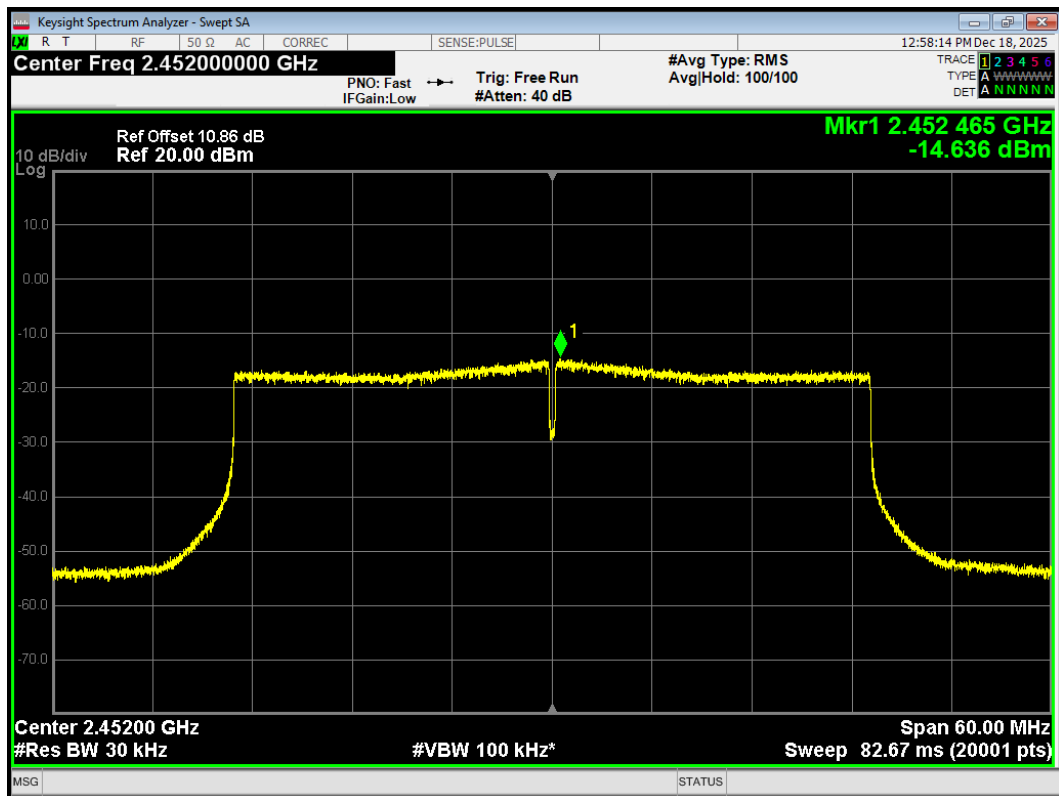
PSD 802.11ax(HE40) 2437MHz Ant1



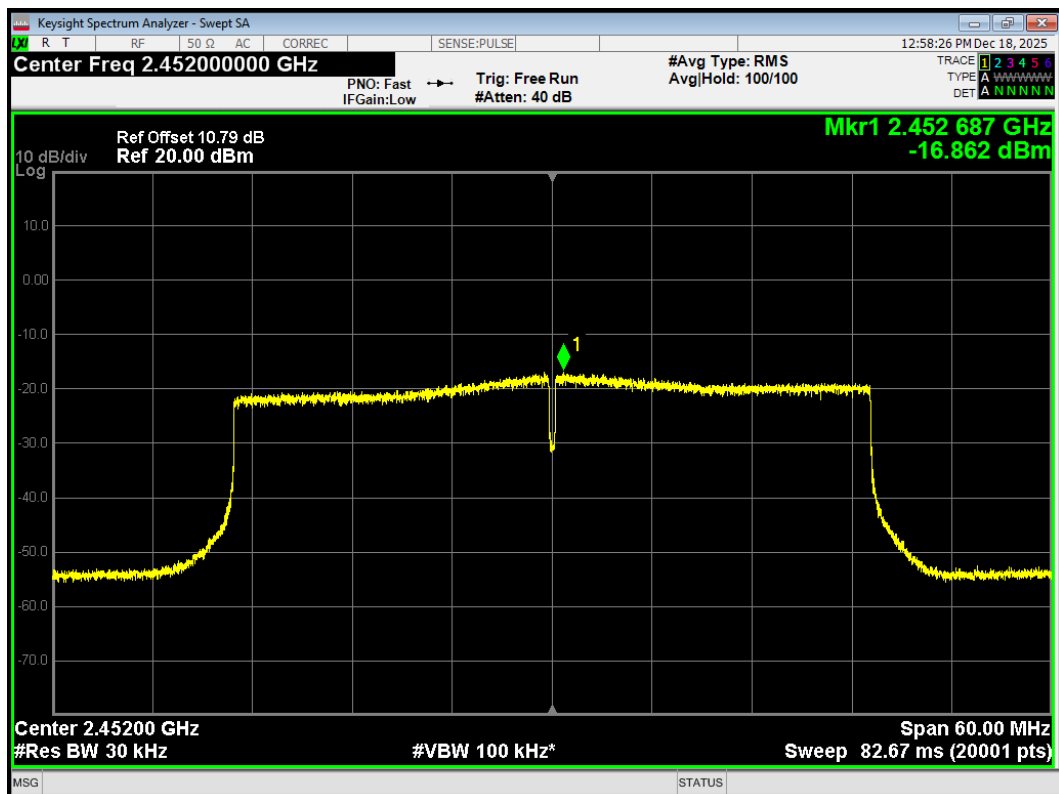
PSD 802.11ax(HE40) 2437MHz Ant2



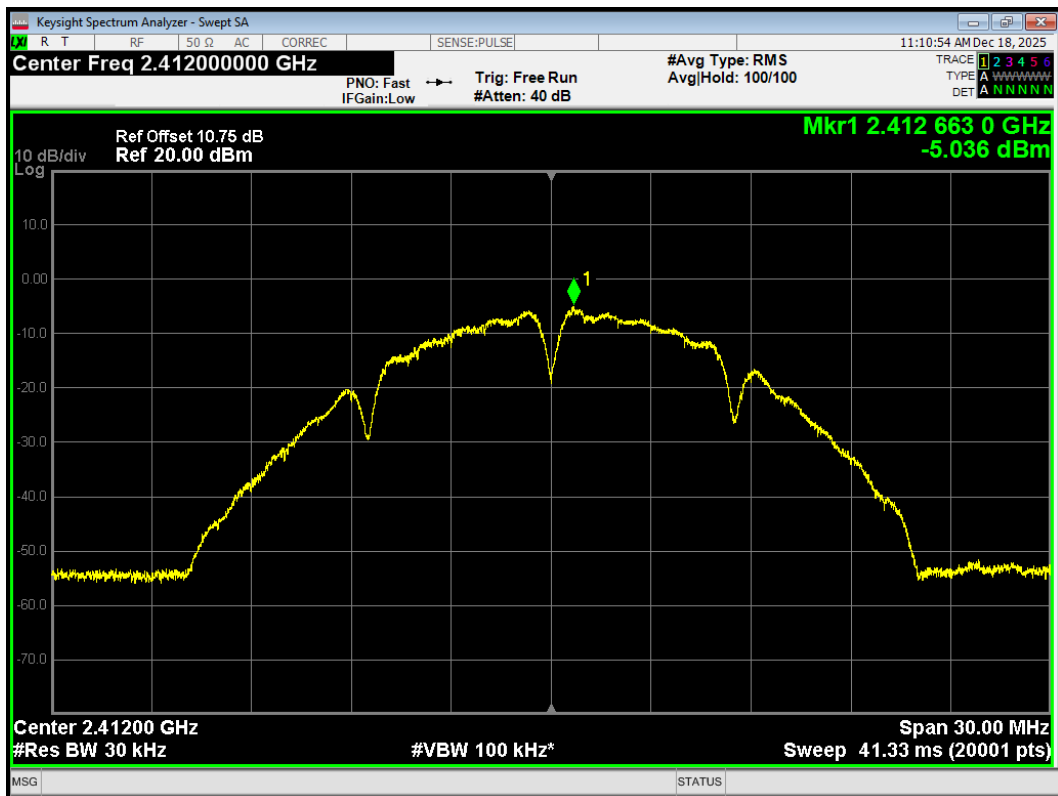
PSD 802.11ax(HE40) 2452MHz Ant1



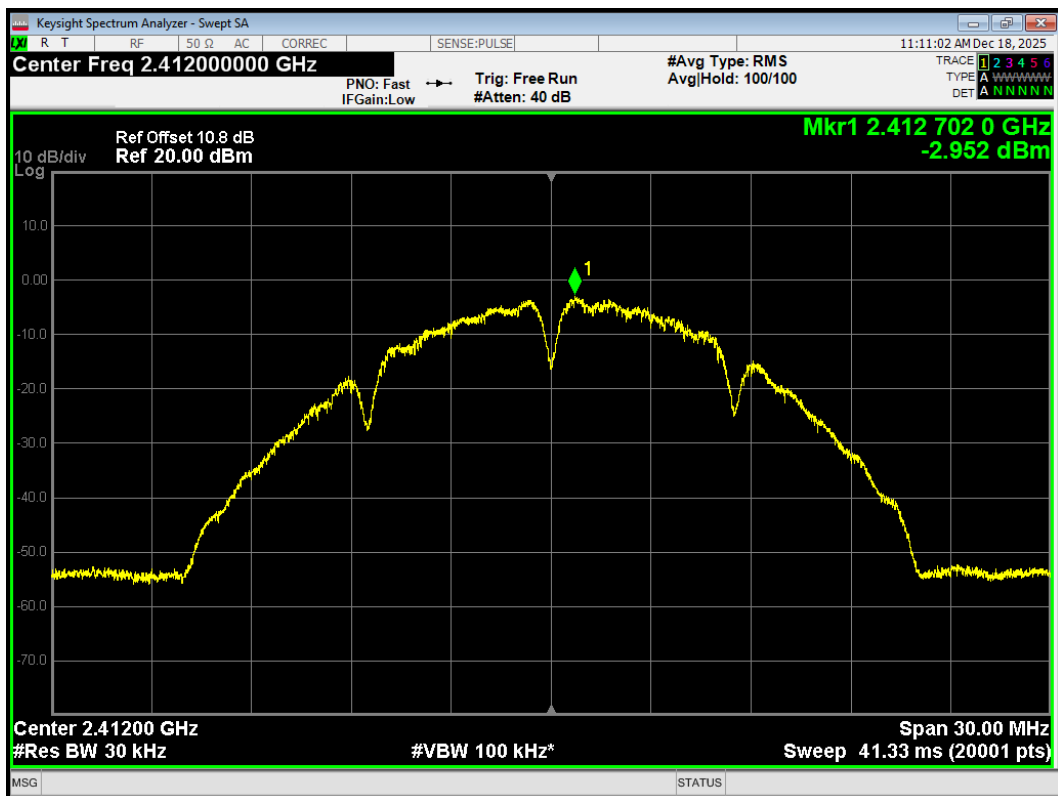
PSD 802.11ax(HE40) 2452MHz Ant2



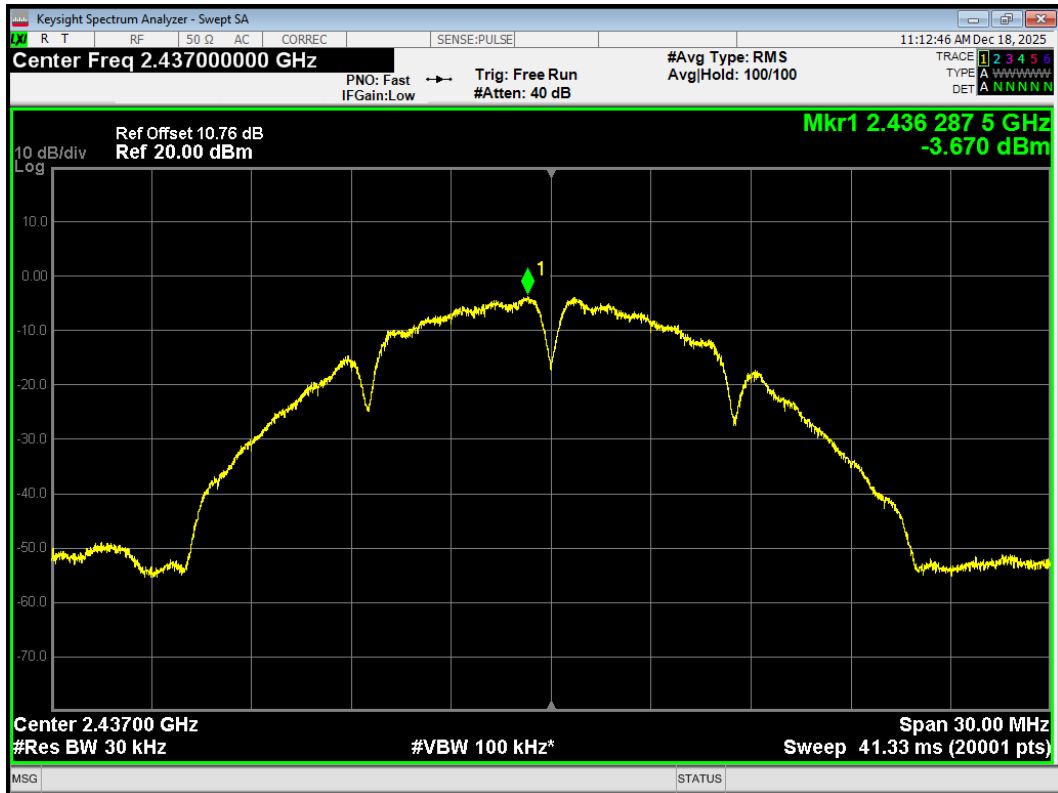
PSD 802.11b 2412MHz Ant1



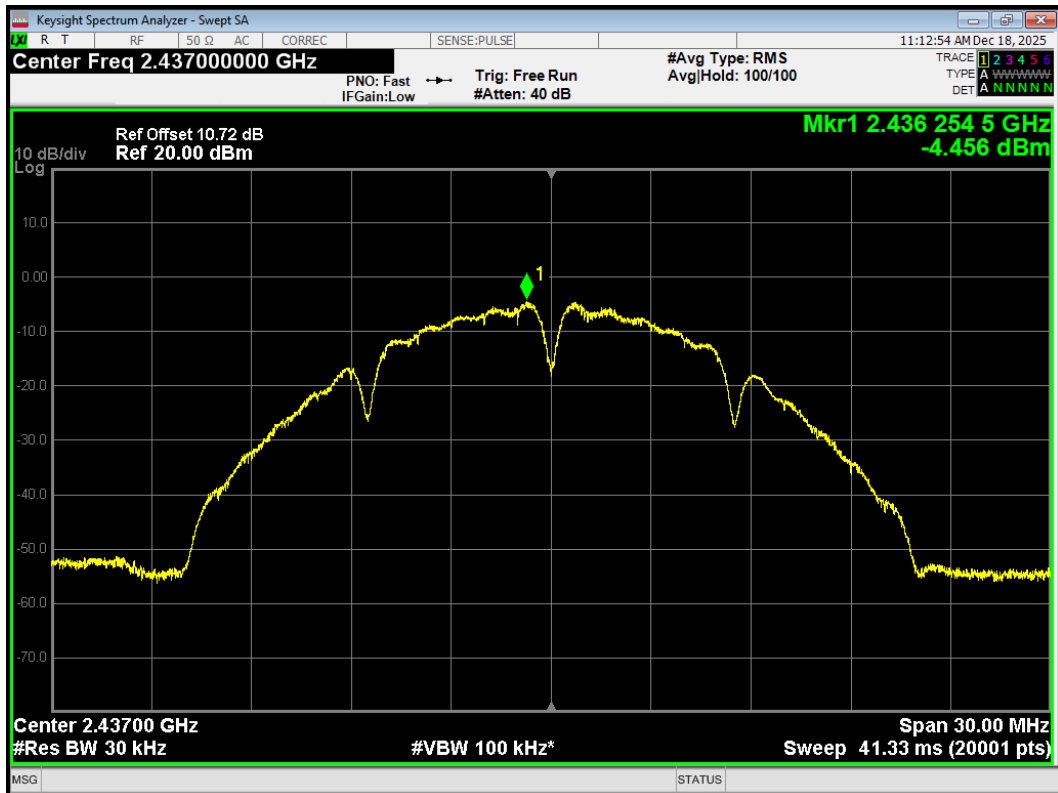
PSD 802.11b 2412MHz Ant2



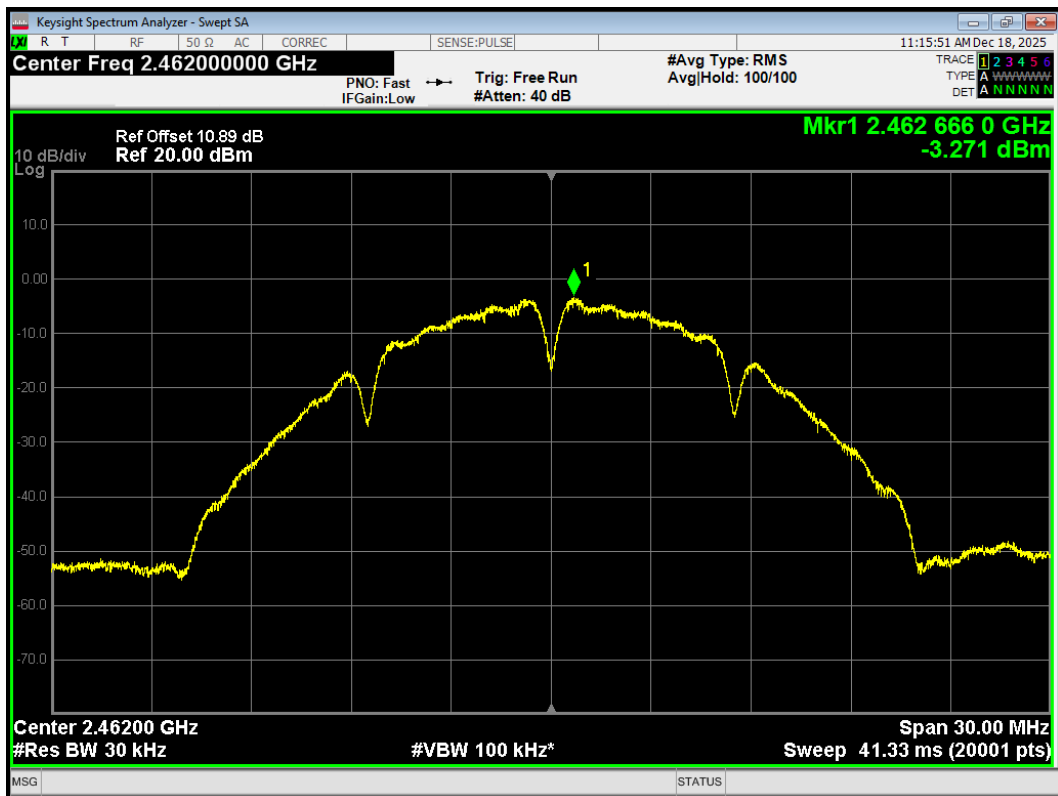
PSD 802.11b 2437MHz Ant1



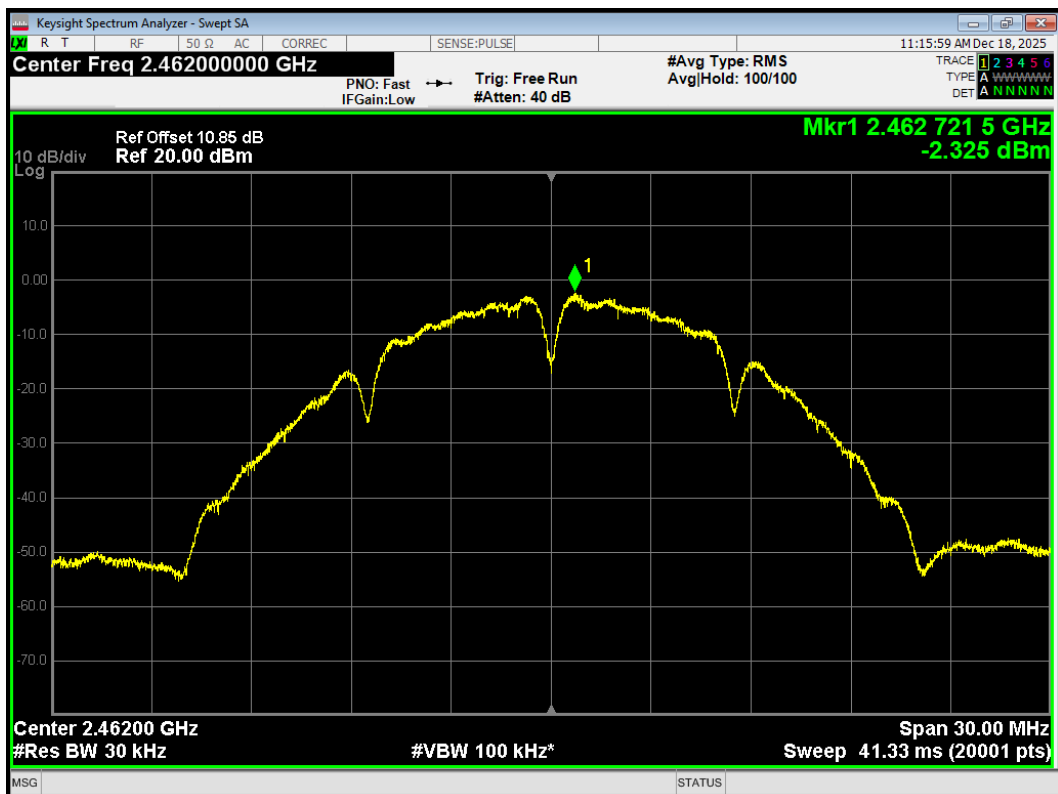
PSD 802.11b 2437MHz Ant2



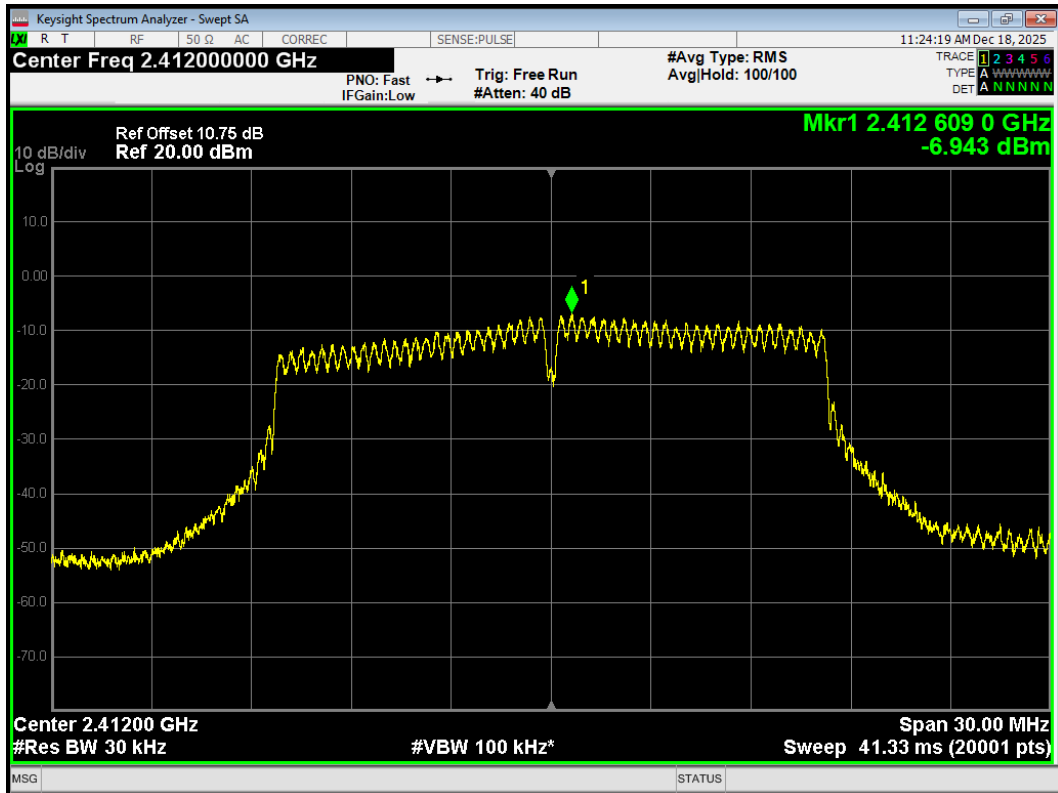
PSD 802.11b 2462MHz Ant1



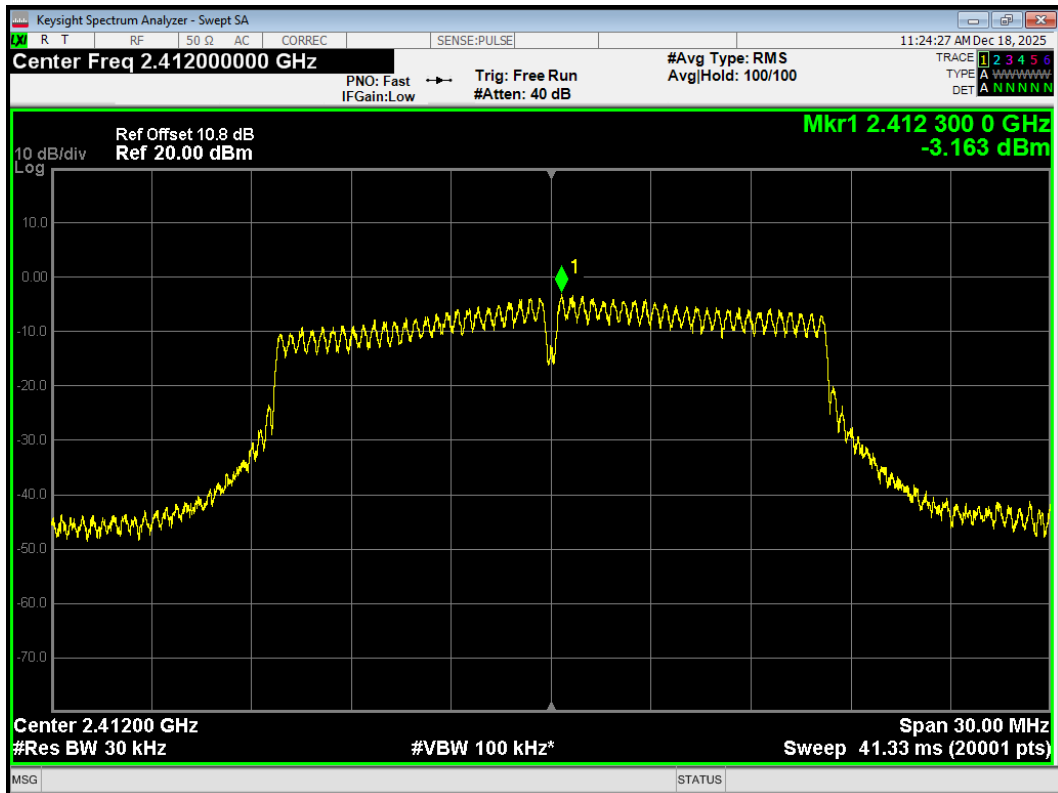
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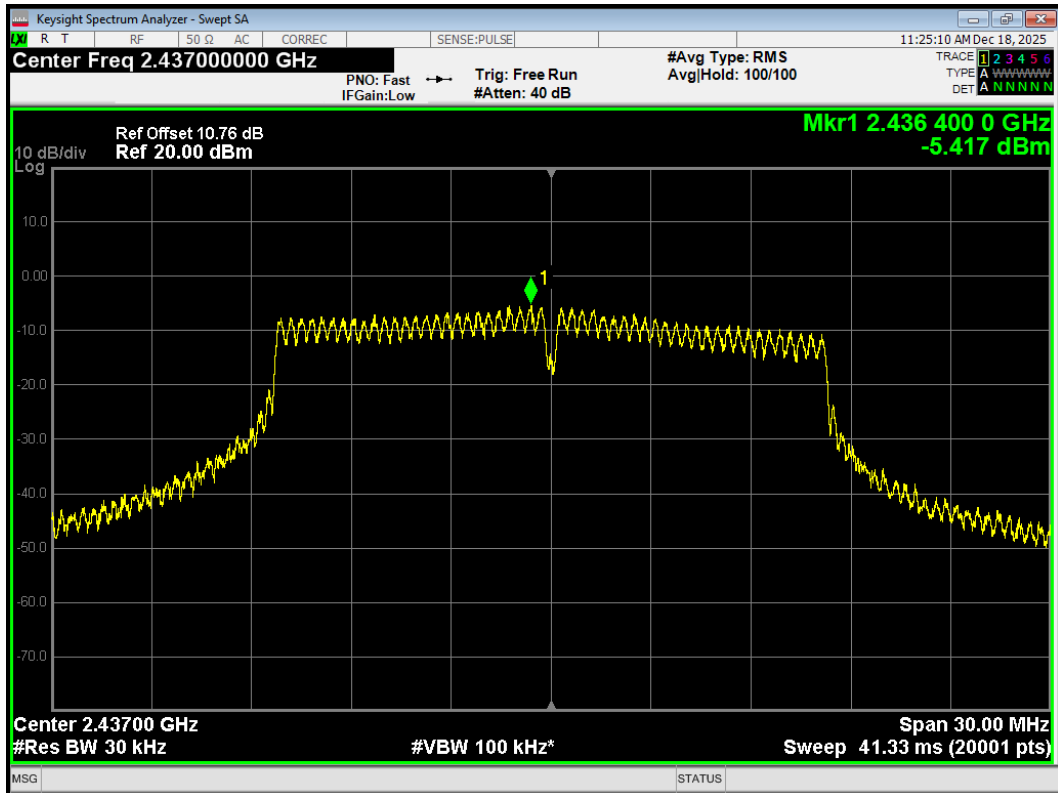
PSD 802.11g 2412MHz Ant1



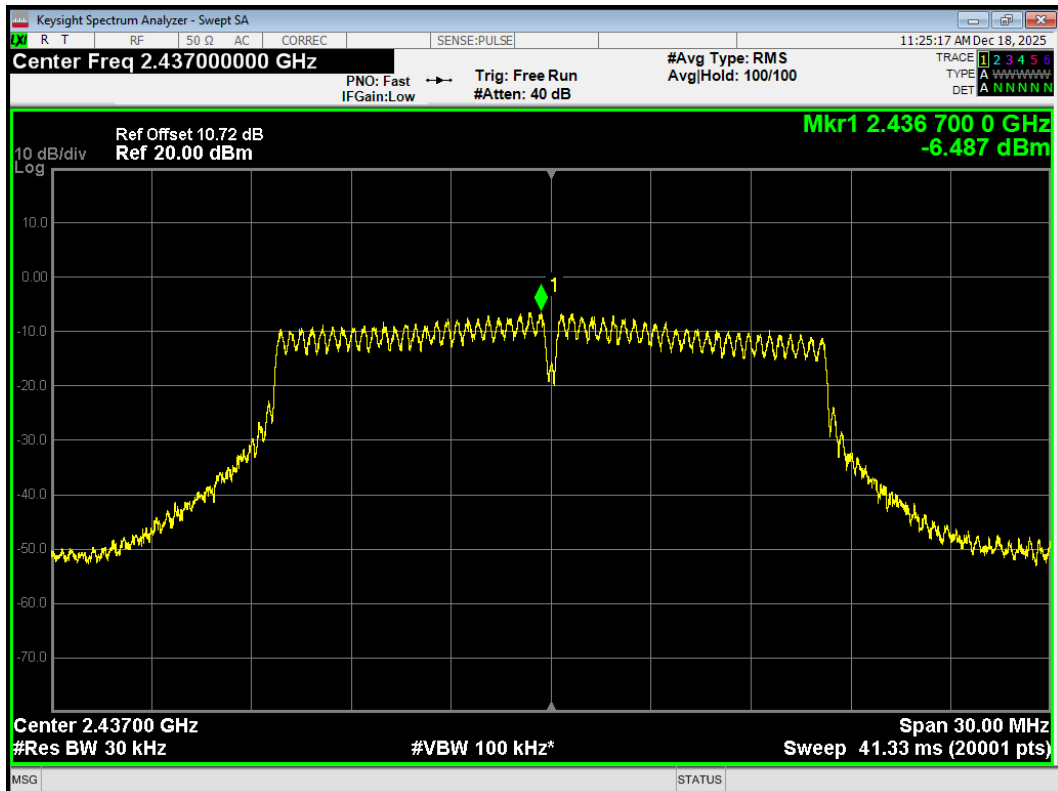
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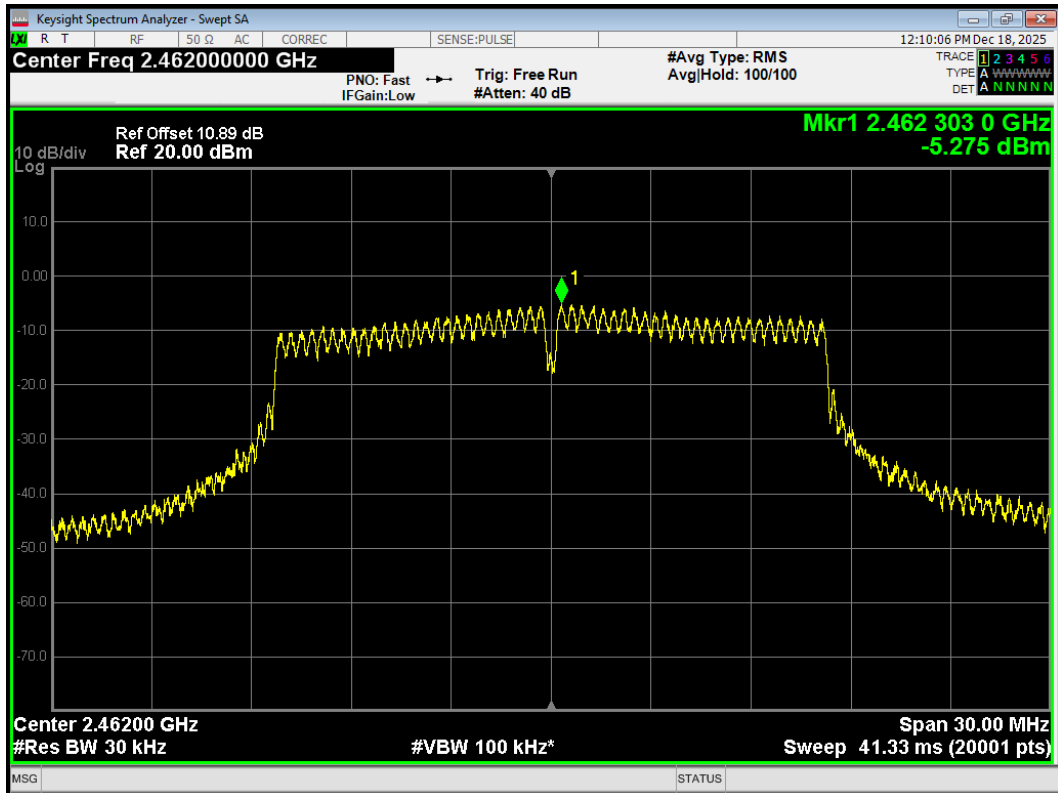
PSD 802.11g 2437MHz Ant1



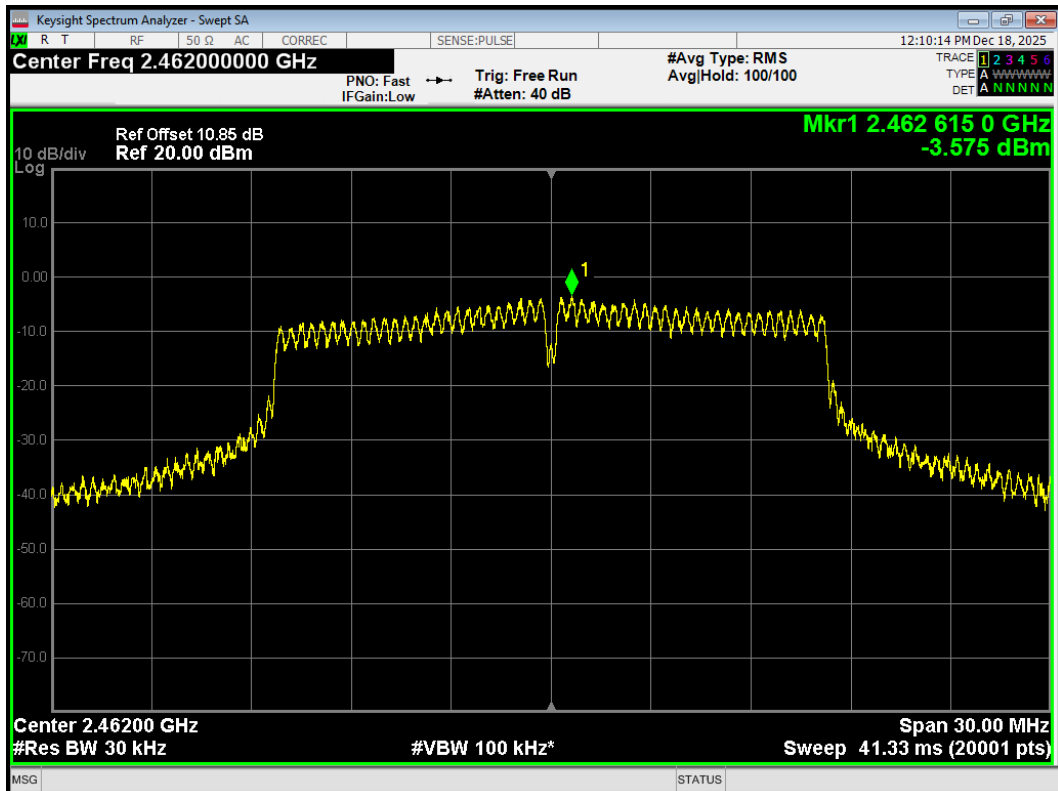
PSD 802.11g 2437MHz Ant2



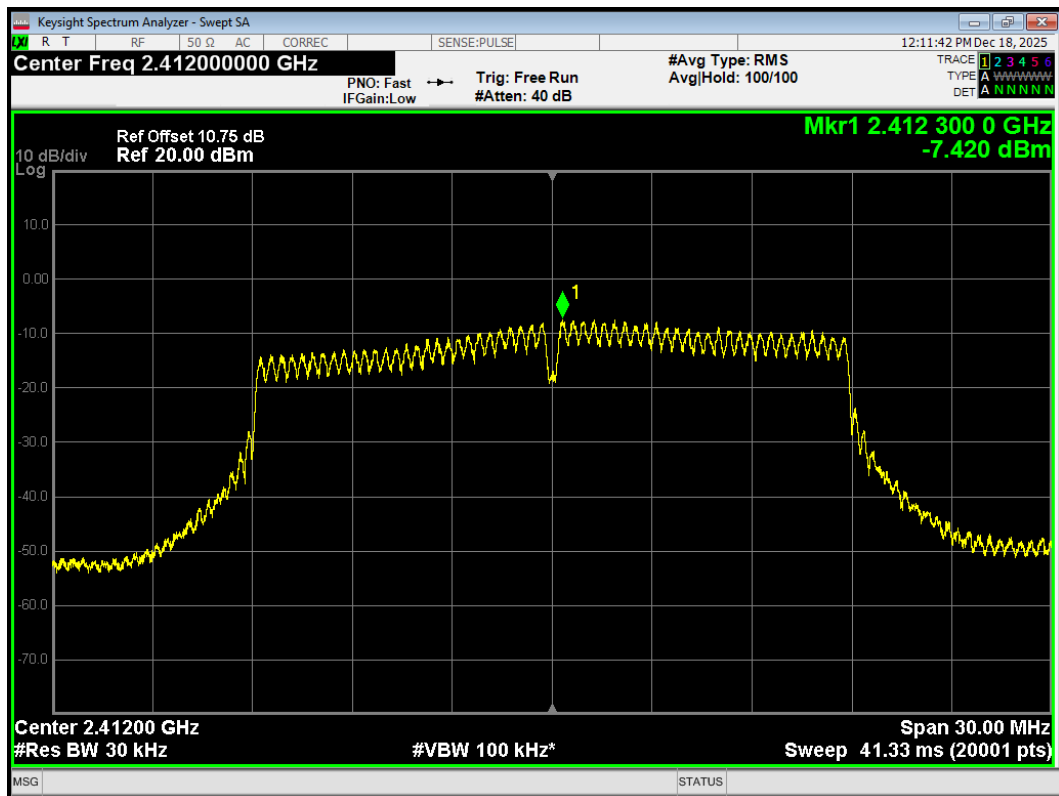
PSD 802.11g 2462MHz Ant1



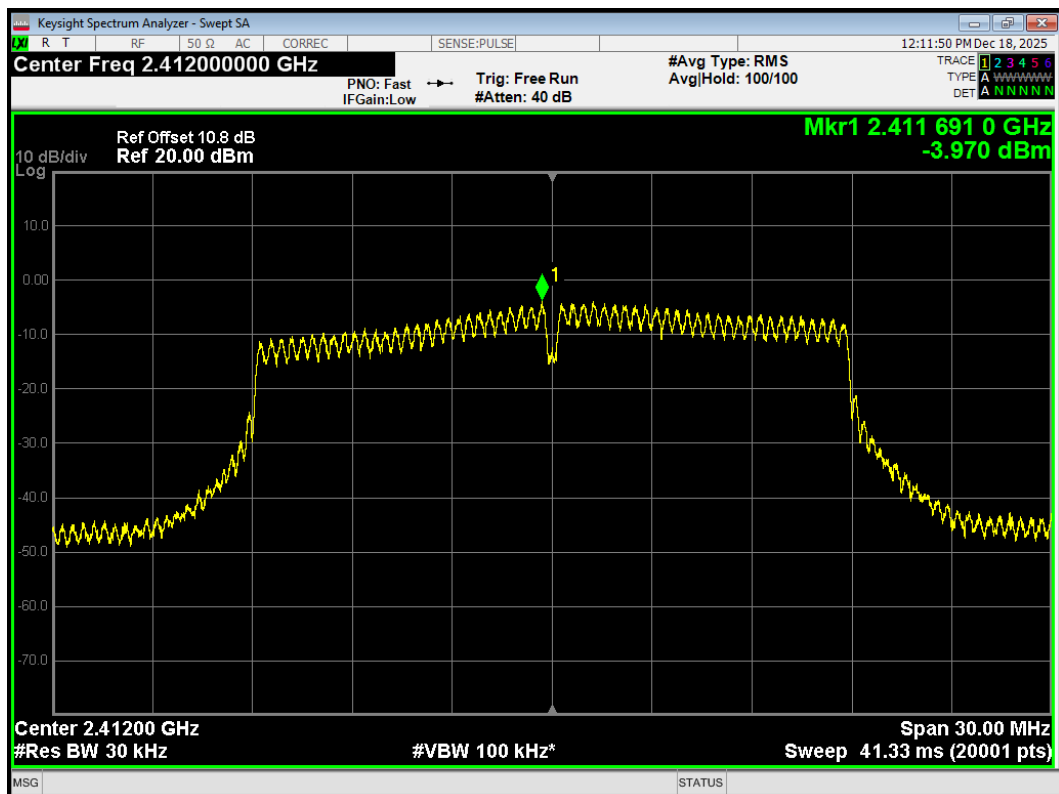
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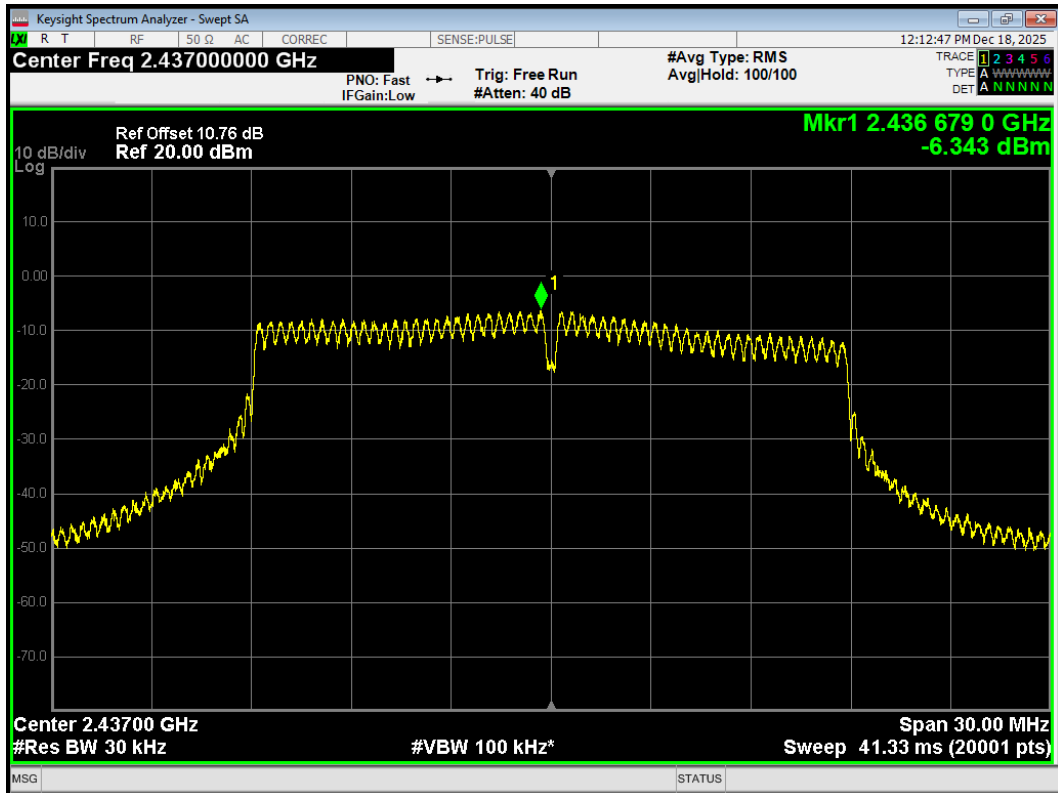
PSD 802.11n(HT20) 2412MHz Ant1



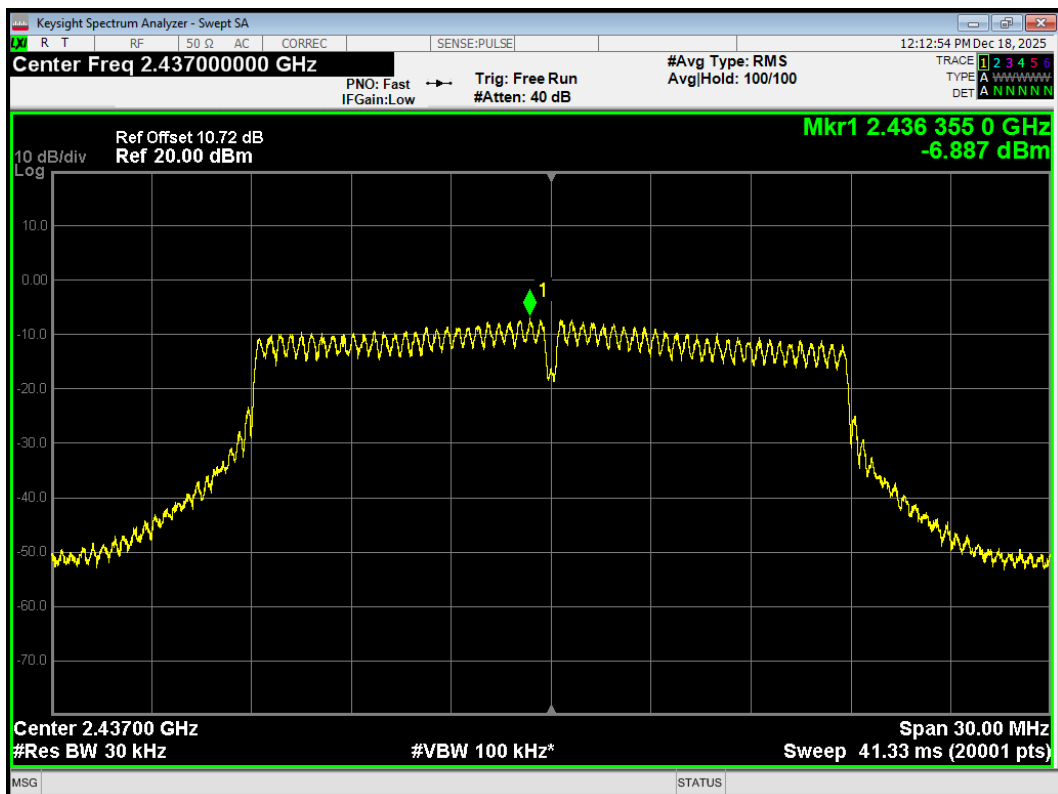
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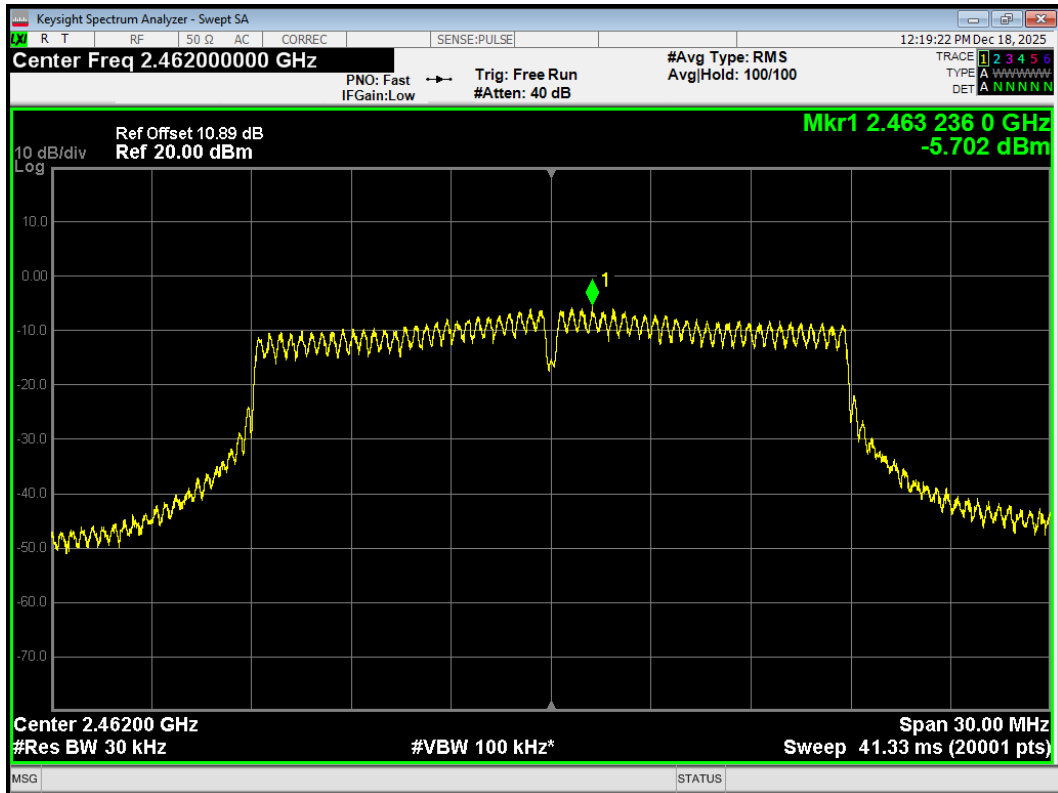
PSD 802.11n(HT20) 2437MHz Ant1



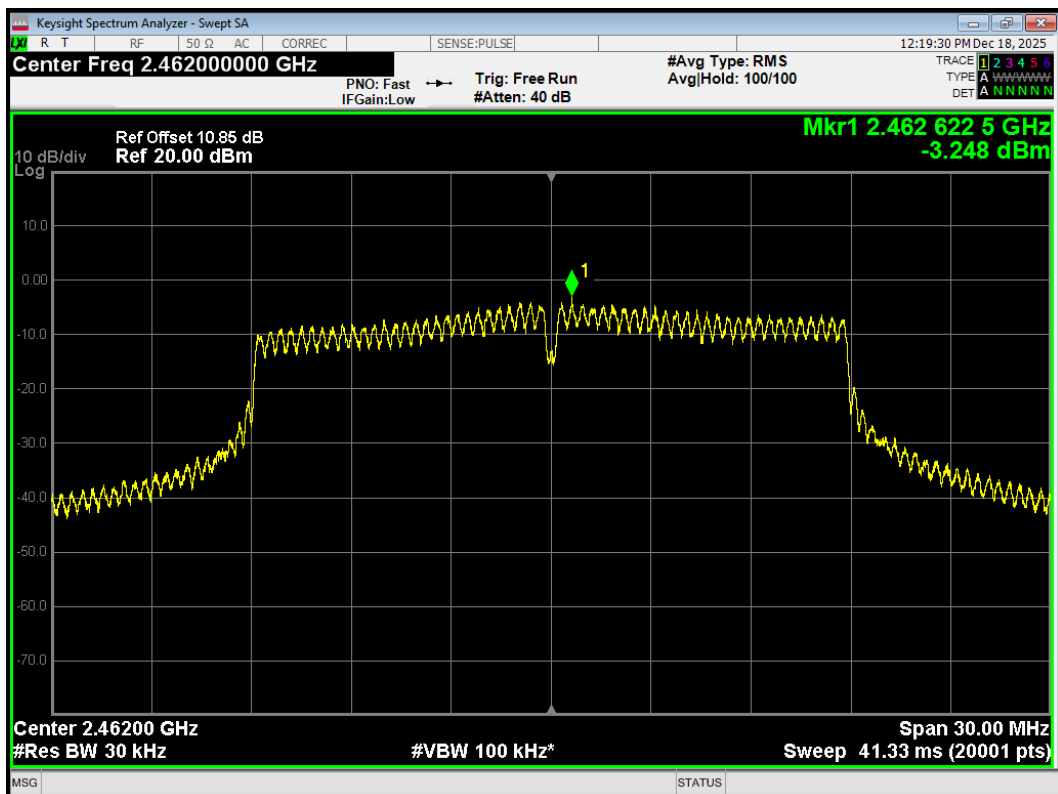
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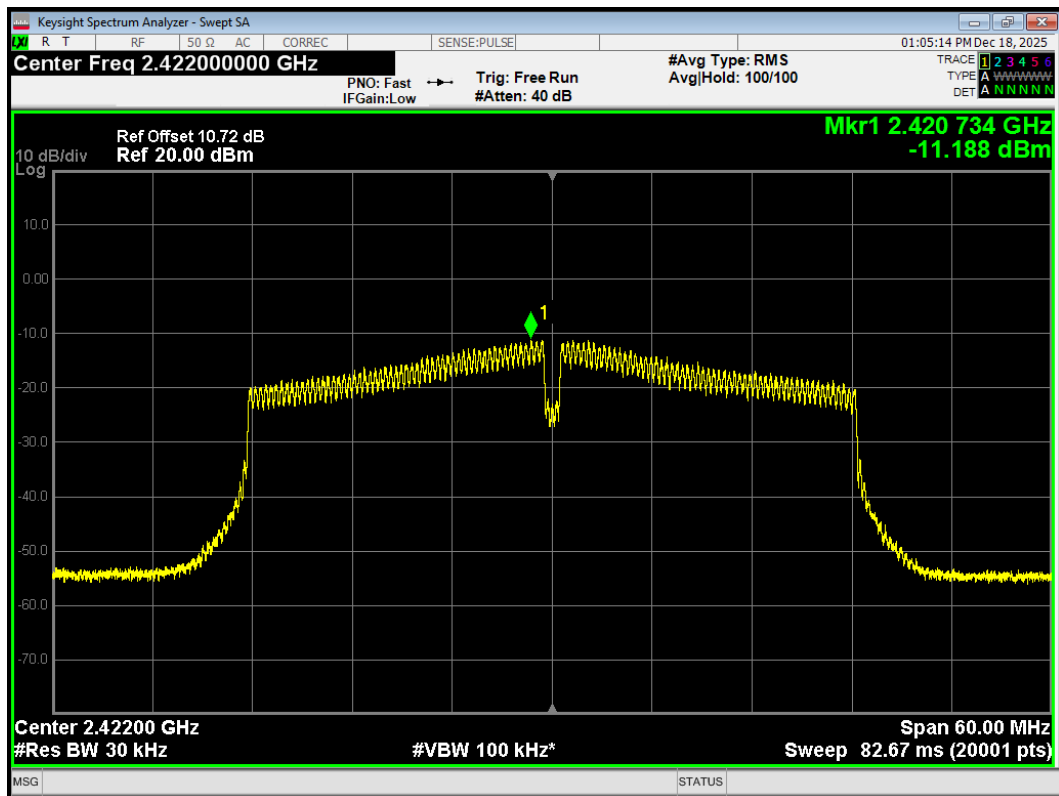
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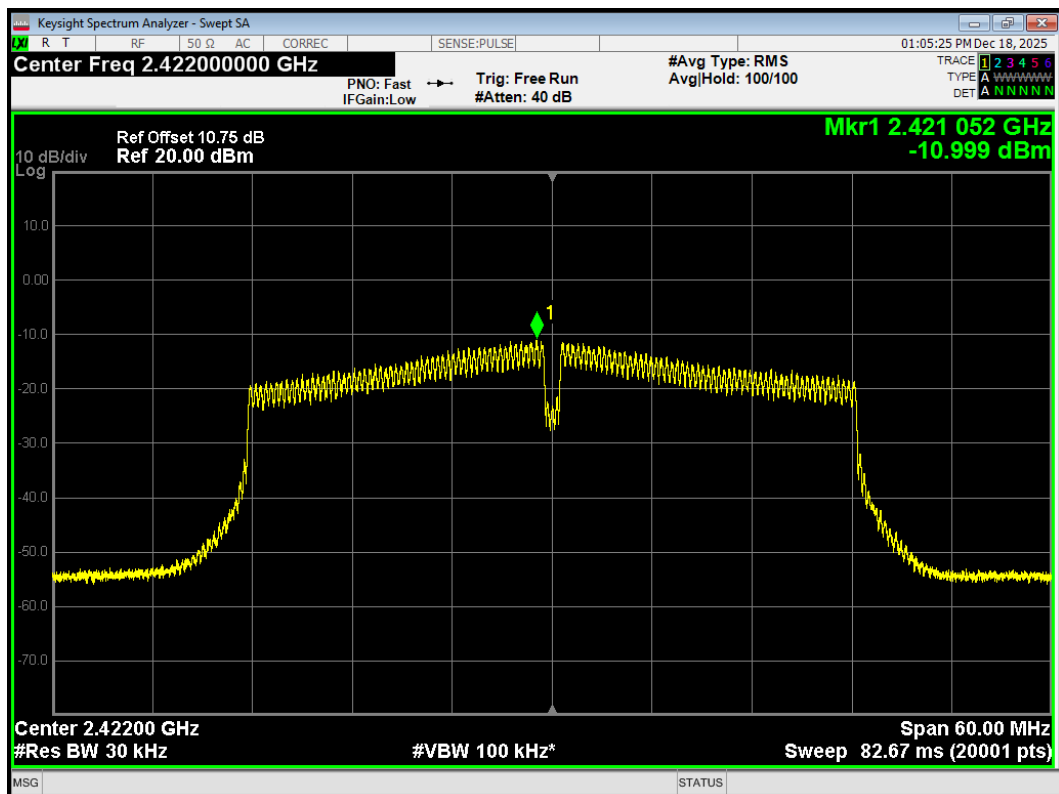
PSD 802.11n(HT20) 2462MHz Ant2



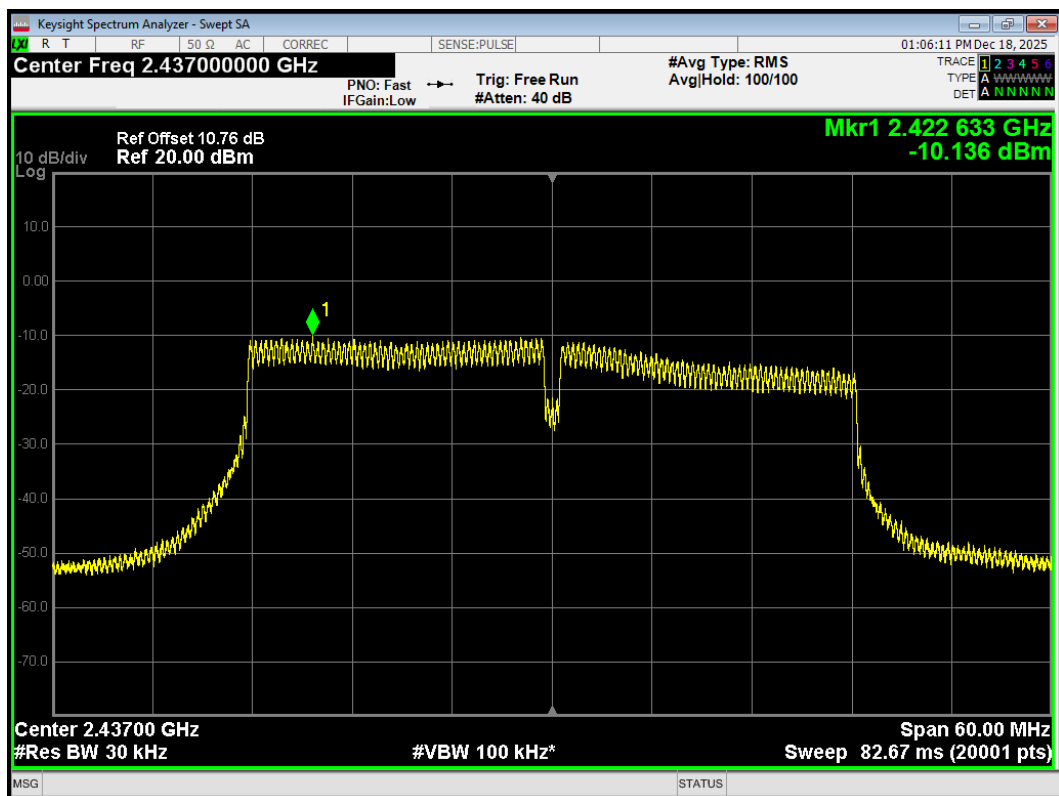
PSD 802.11n(HT40) 2422MHz Ant1



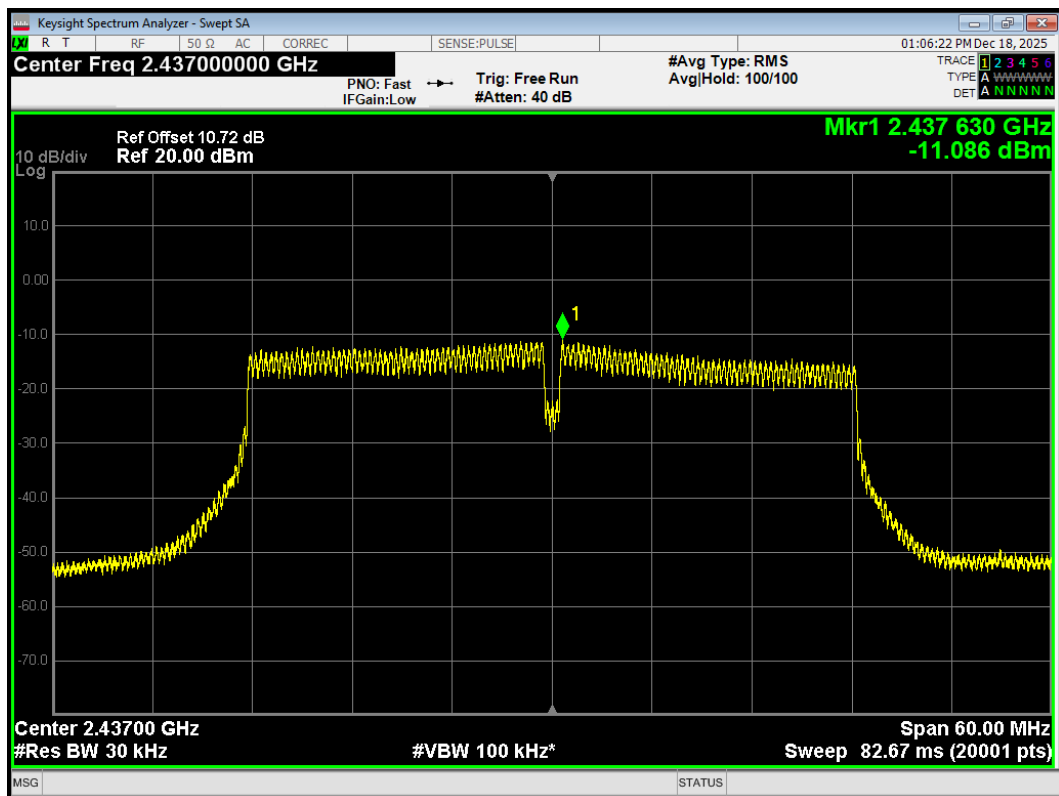
PSD 802.11n(HT40) 2422MHz Ant2



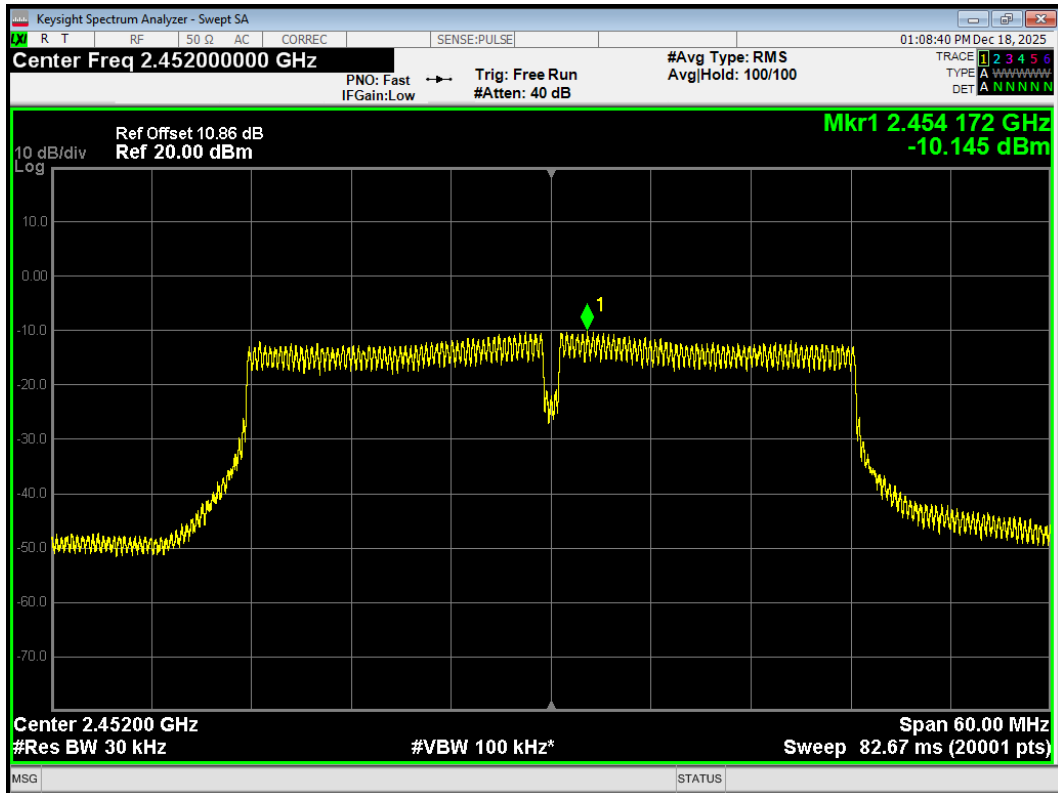
PSD 802.11n(HT40) 2437MHz Ant1



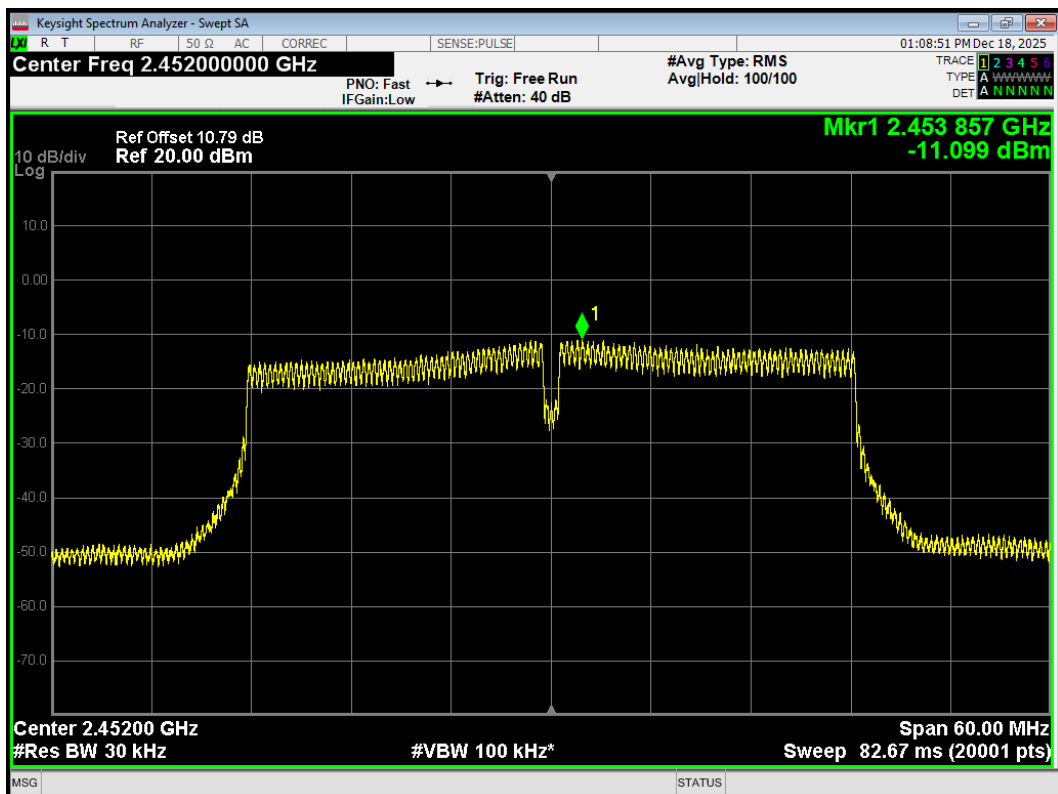
PSD 802.11n(HT40) 2437MHz Ant2



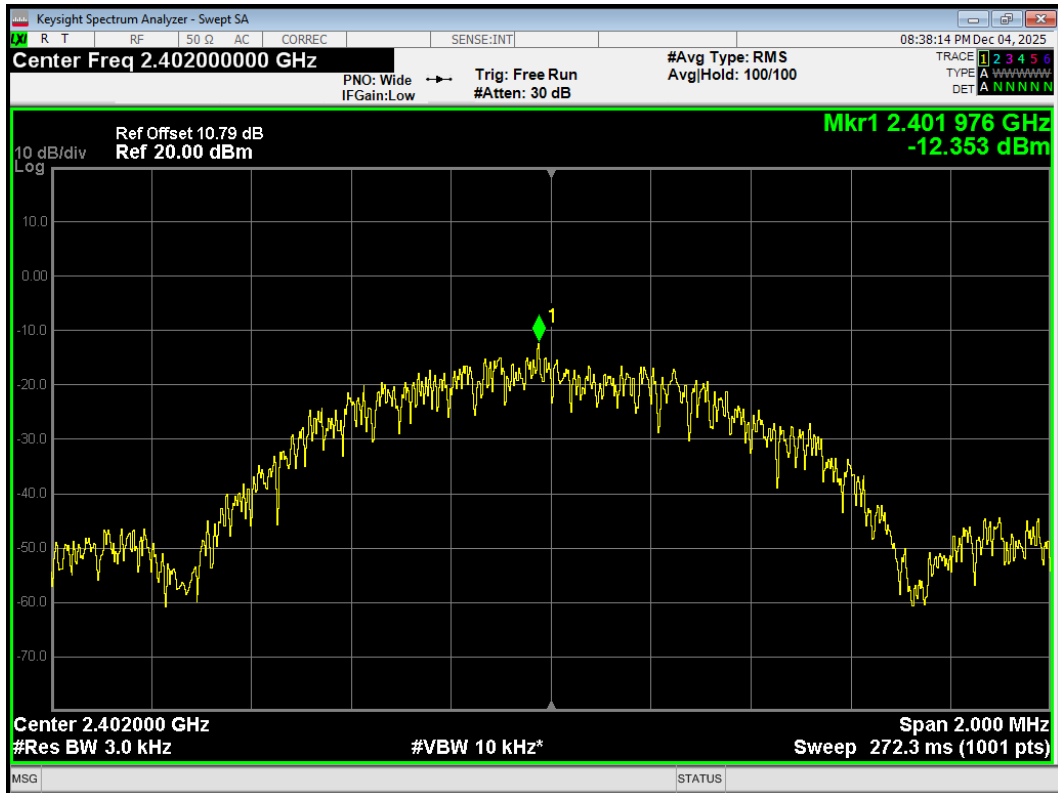
PSD 802.11n(HT40) 2452MHz Ant1



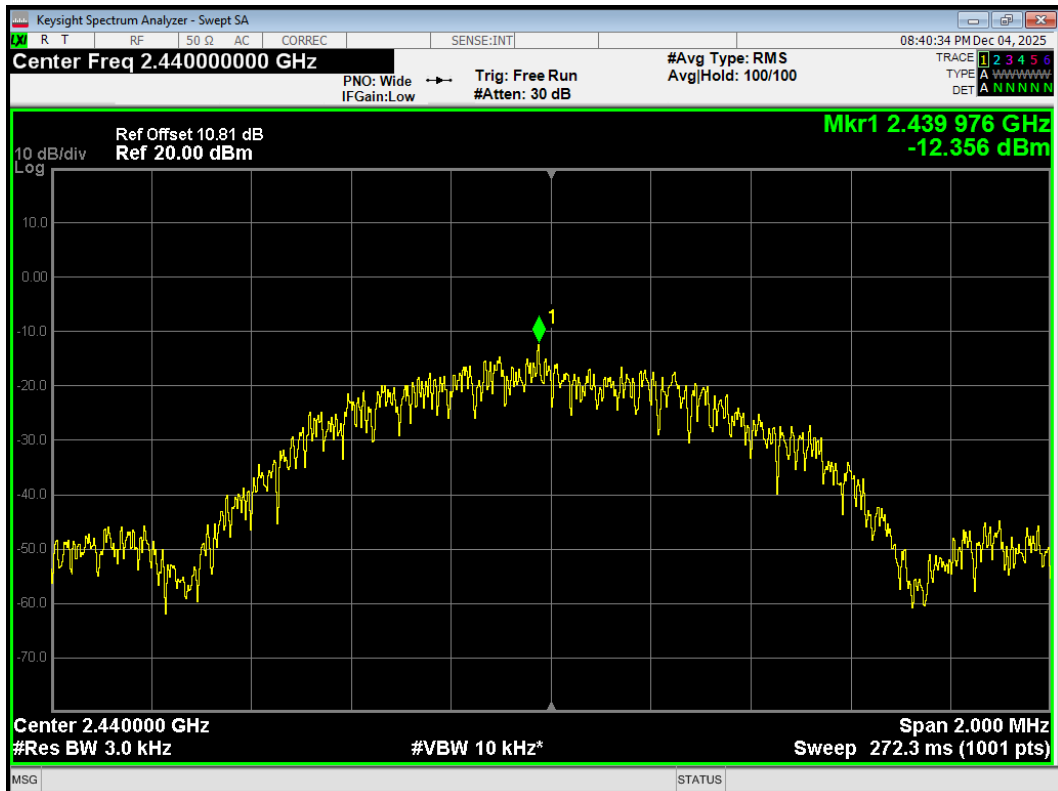
PSD 802.11n(HT40) 2452MHz Ant2



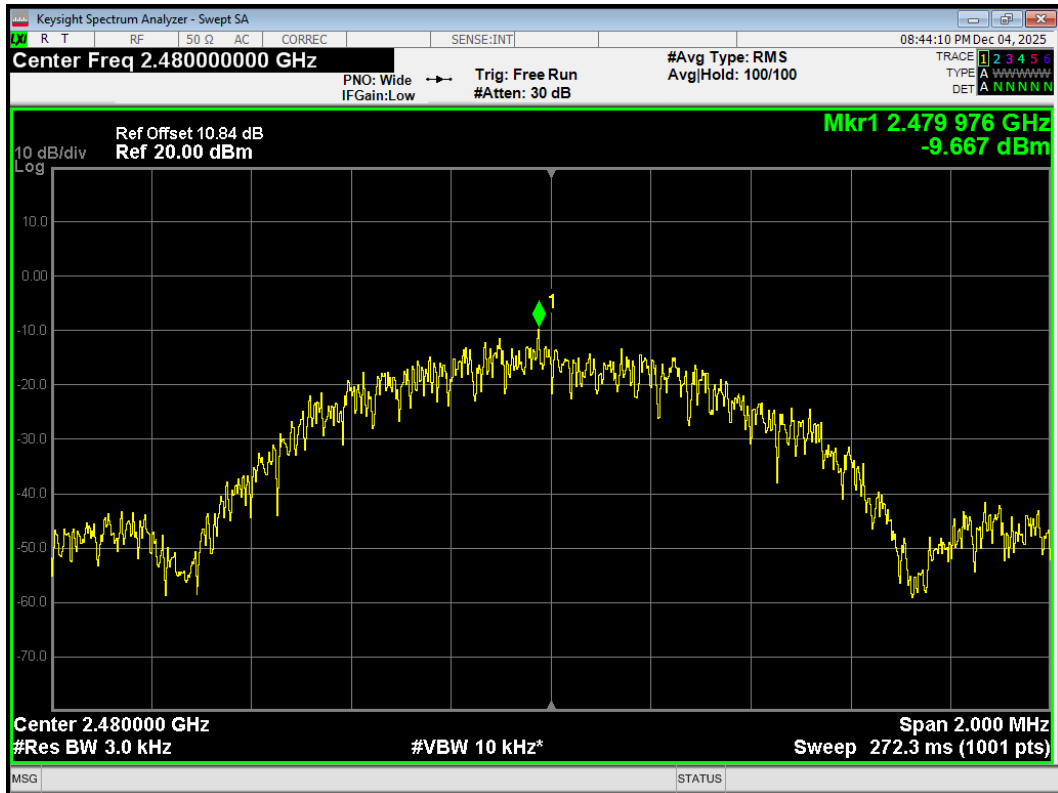
PSD BLE (1M) 2402MHz



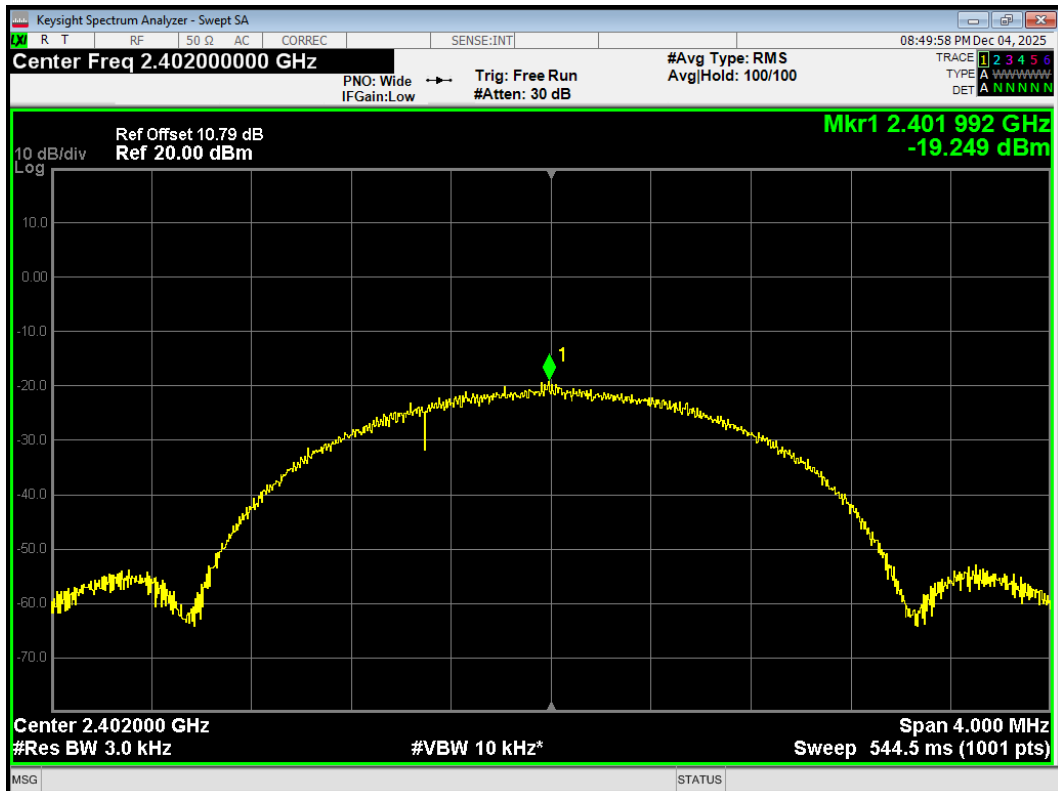
PSD BLE (1M) 2440MHz



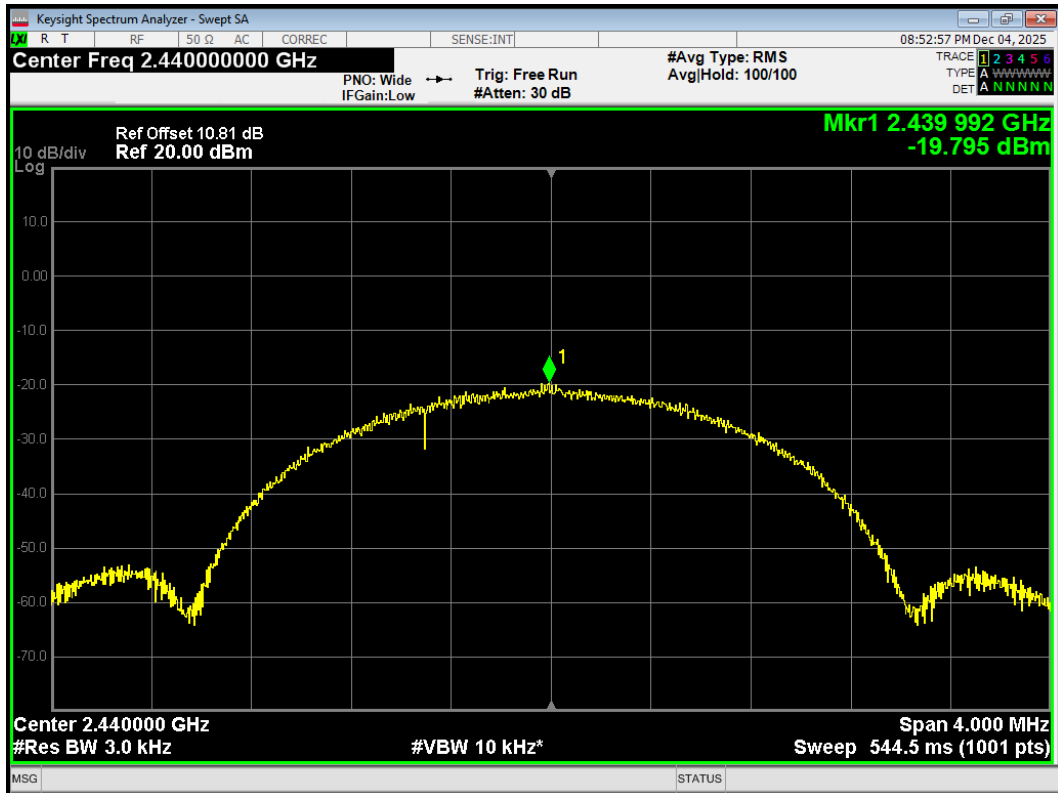
PSD BLE (1M) 2480MHz



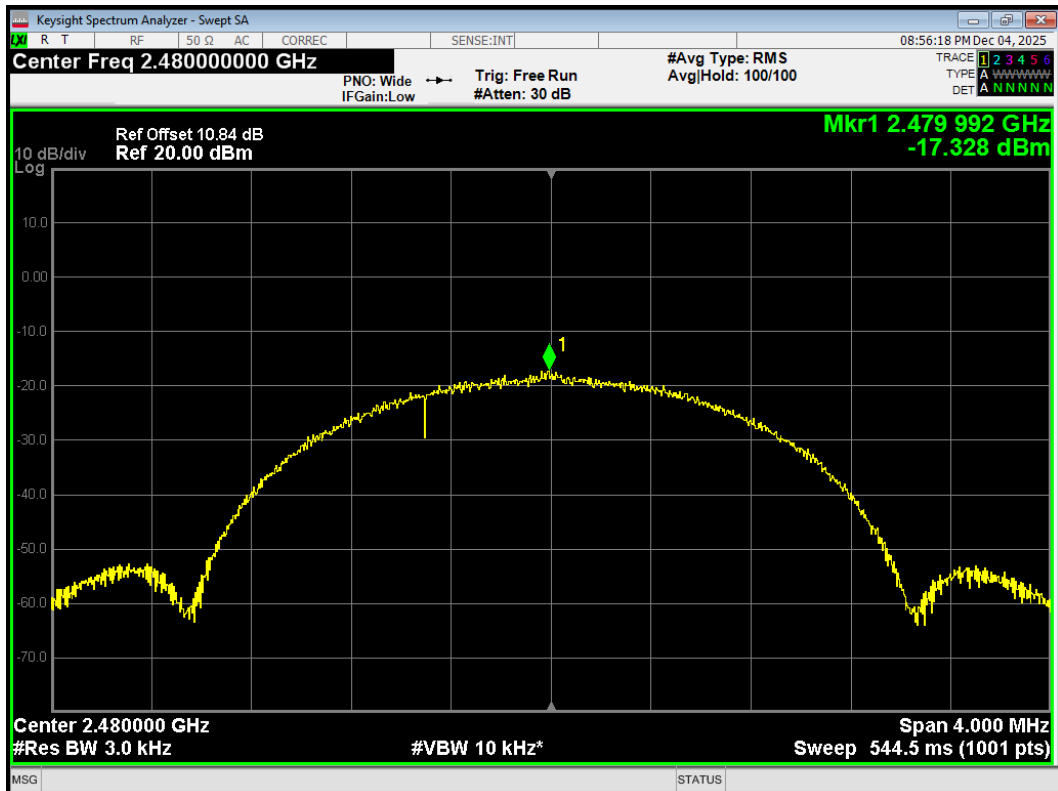
PSD BLE (2M) 2402MHz



PSD BLE (2M) 2440MHz

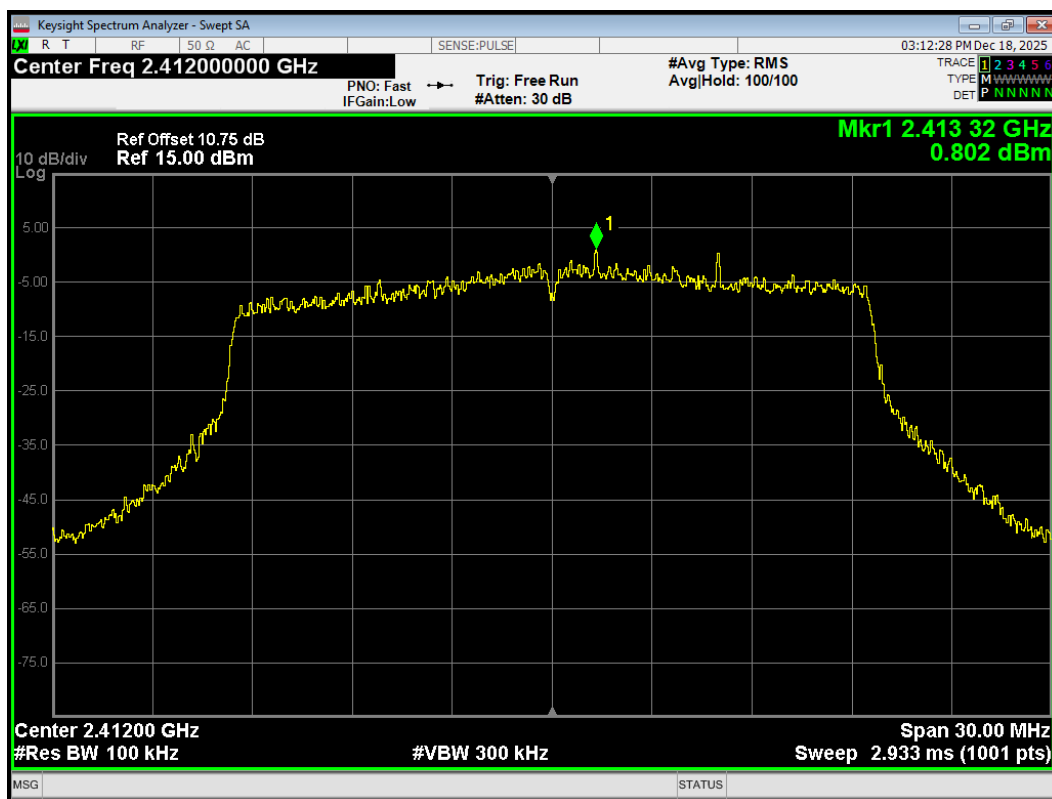


PSD BLE (2M) 2480MHz

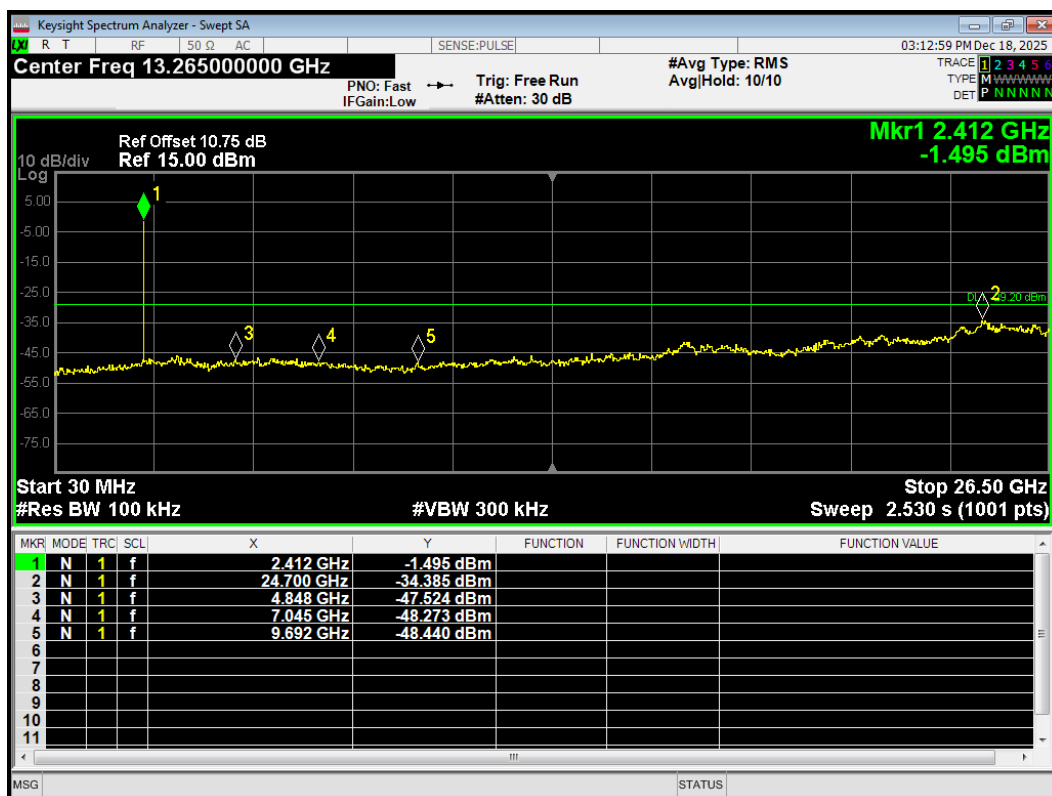


6.5. Spurious RF Conducted Emissions

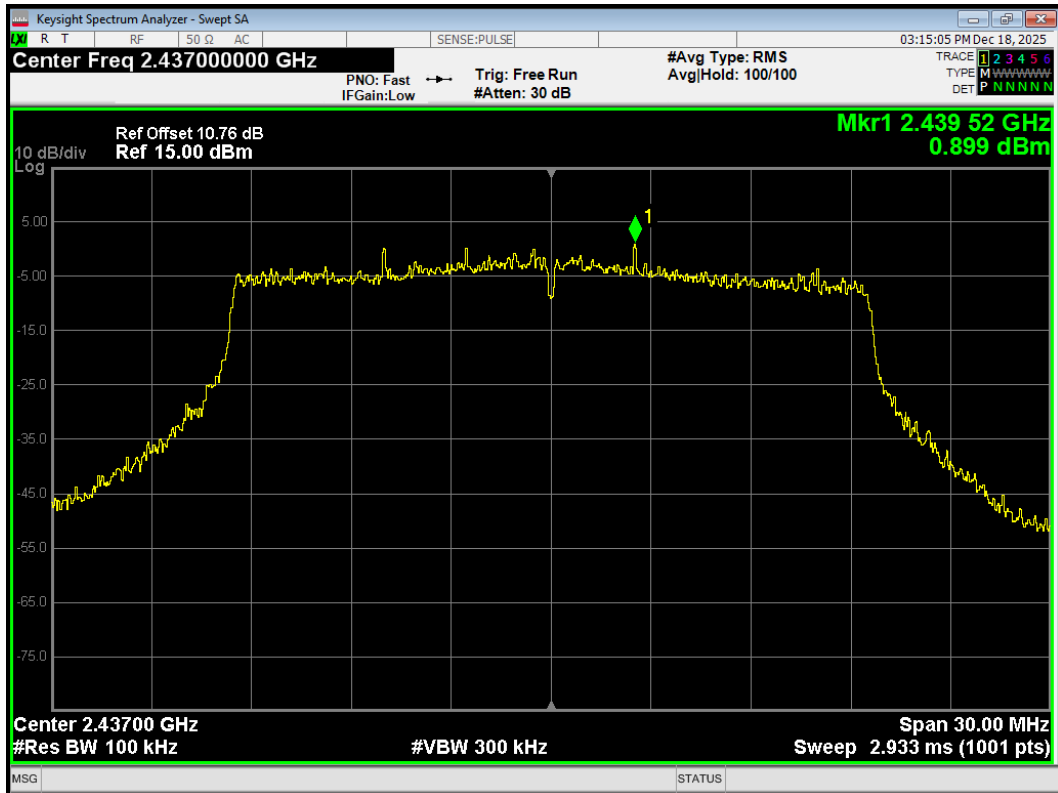
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



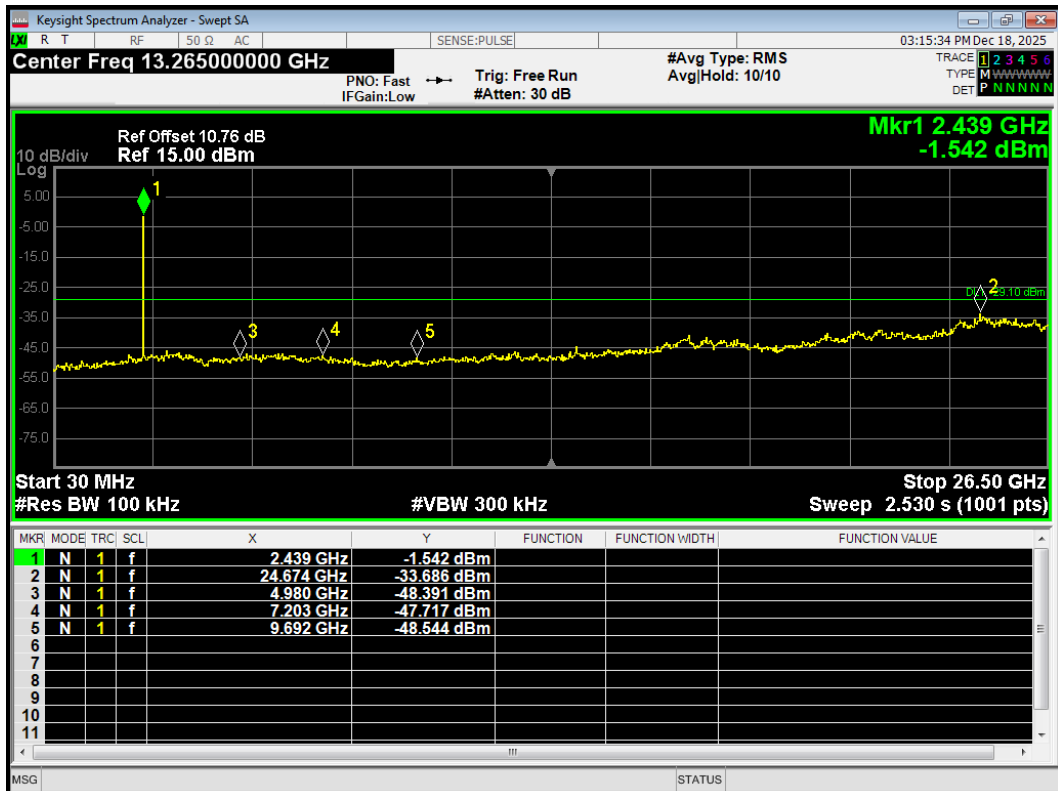
Tx. Spurious 802.11ax(HE20) 2412MHz Emission



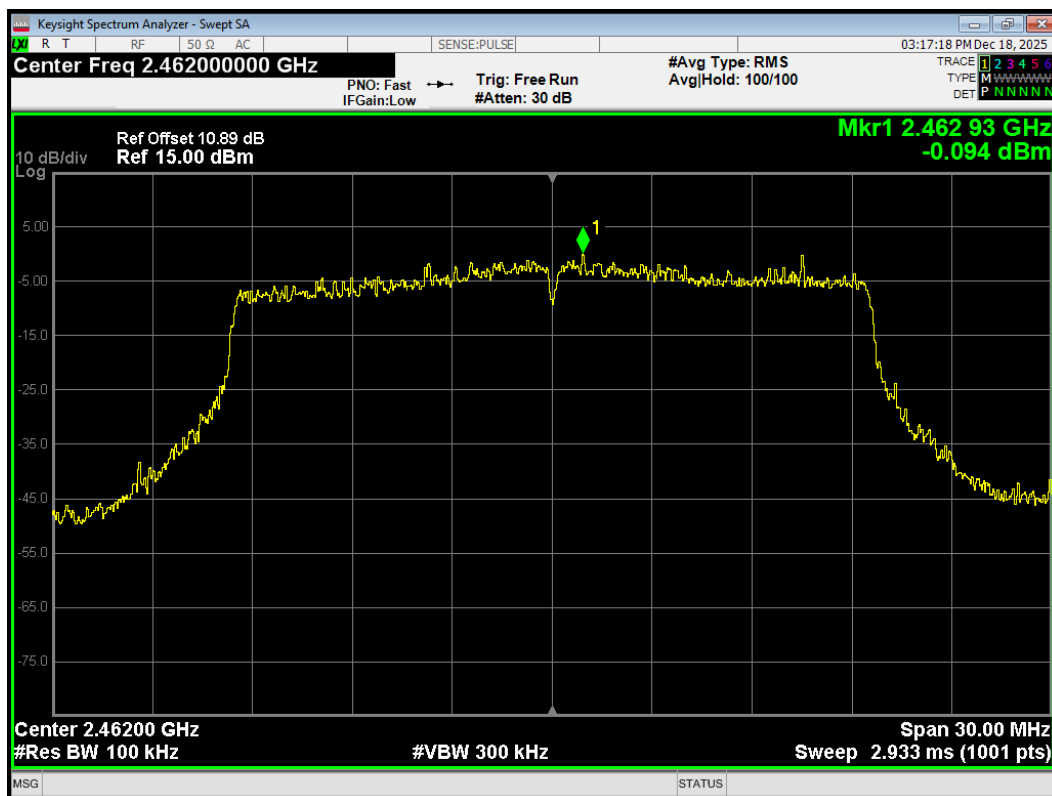
Tx. Spurious 802.11ax(HE20) 2437MHz Ref



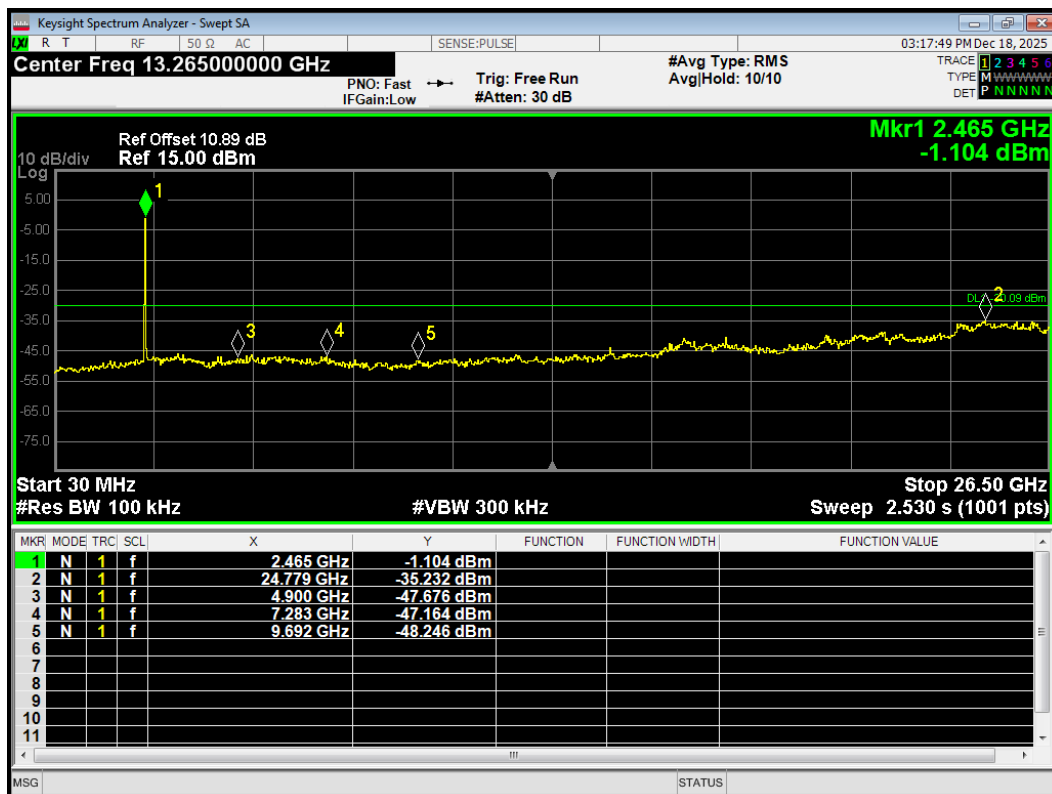
Tx. Spurious 802.11ax(HE20) 2437MHz Emission



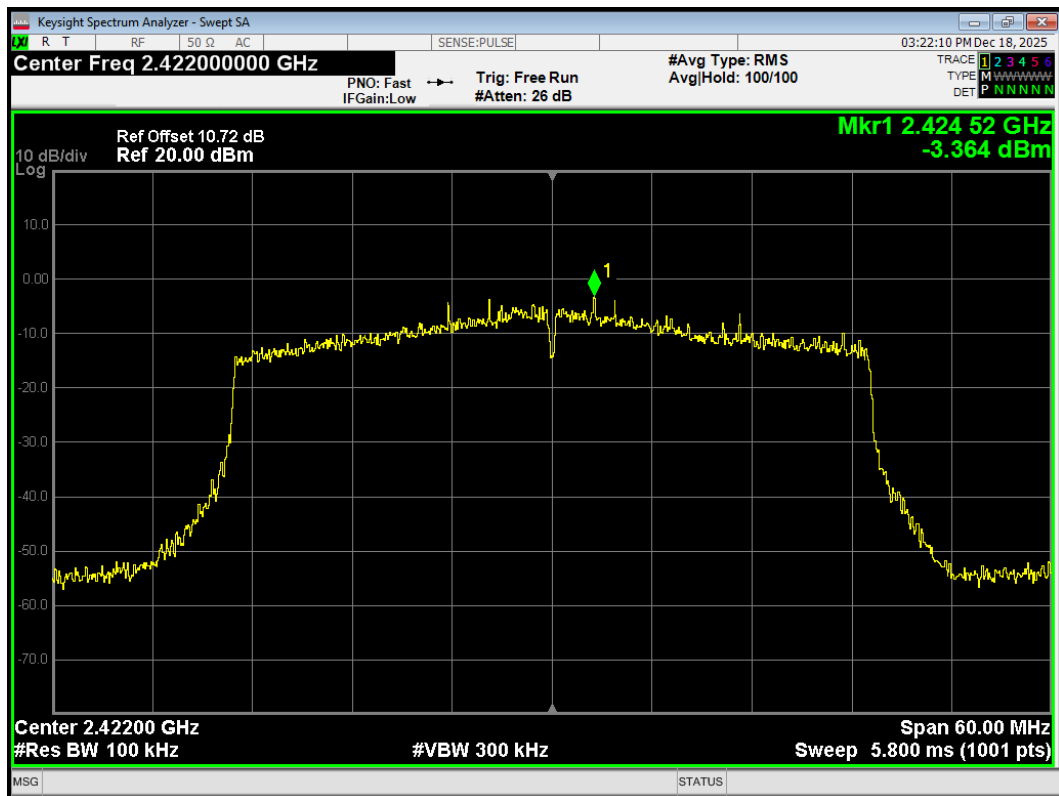
Tx. Spurious 802.11ax(HE20) 2462MHz Ref



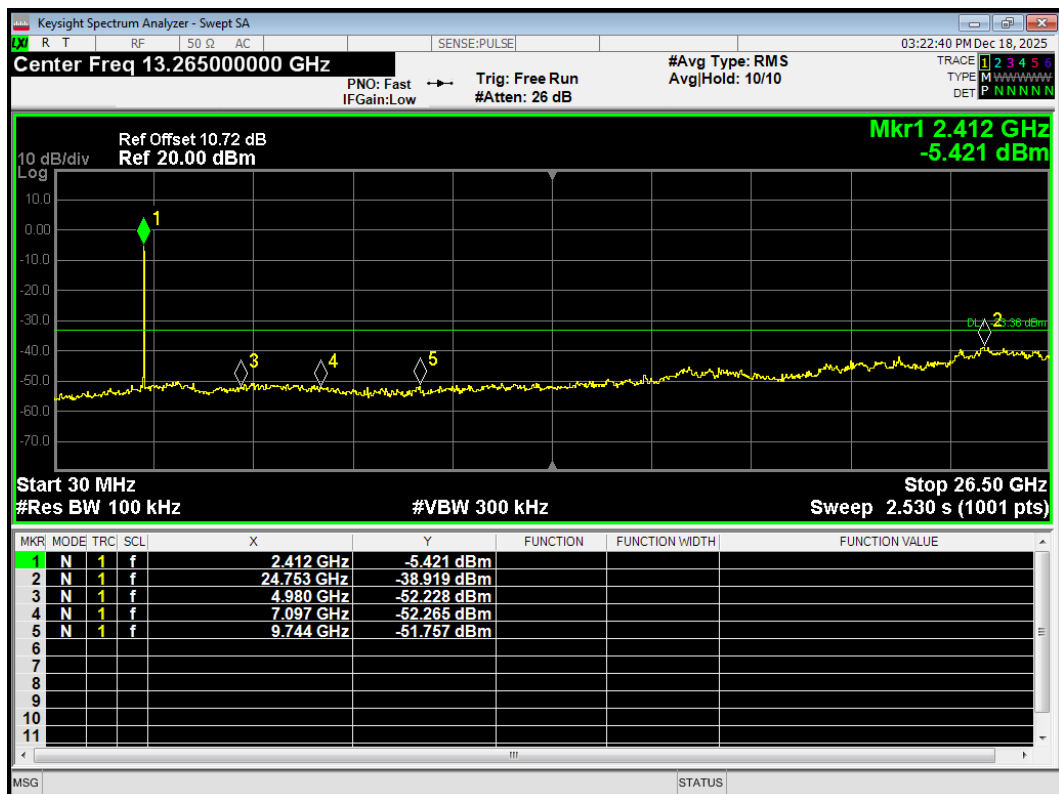
Tx. Spurious 802.11ax(HE20) 2462MHz Emission



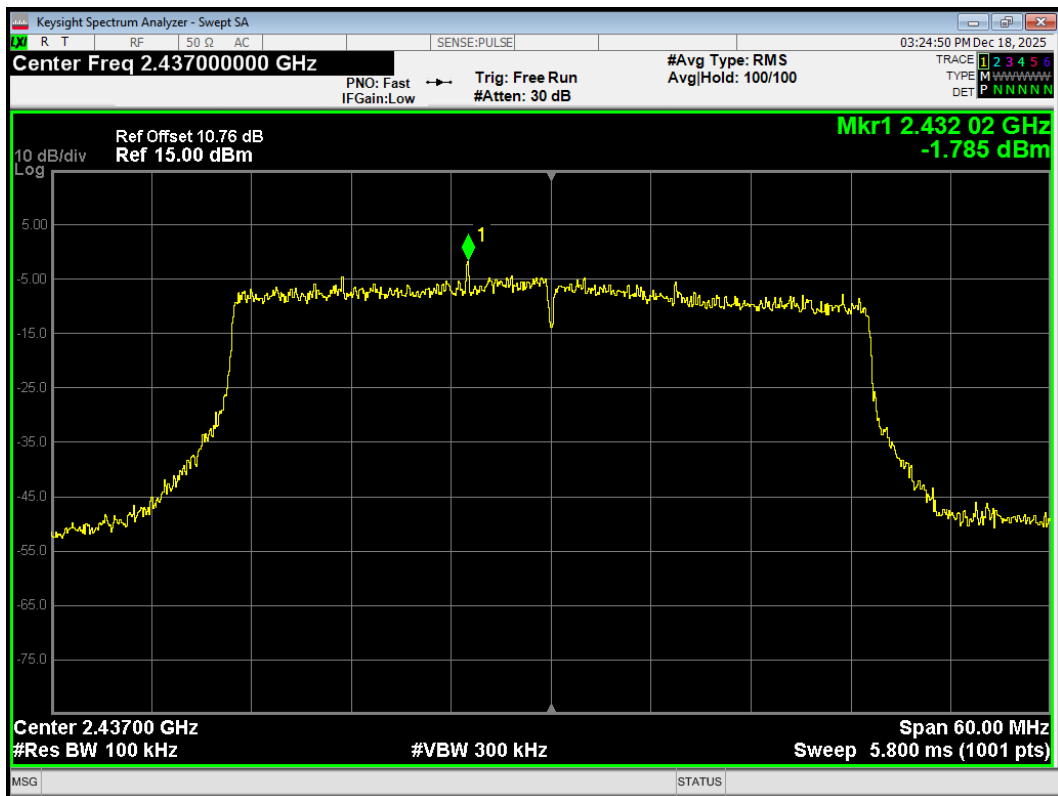
Tx. Spurious 802.11ax(HE40) 2422MHz Ref



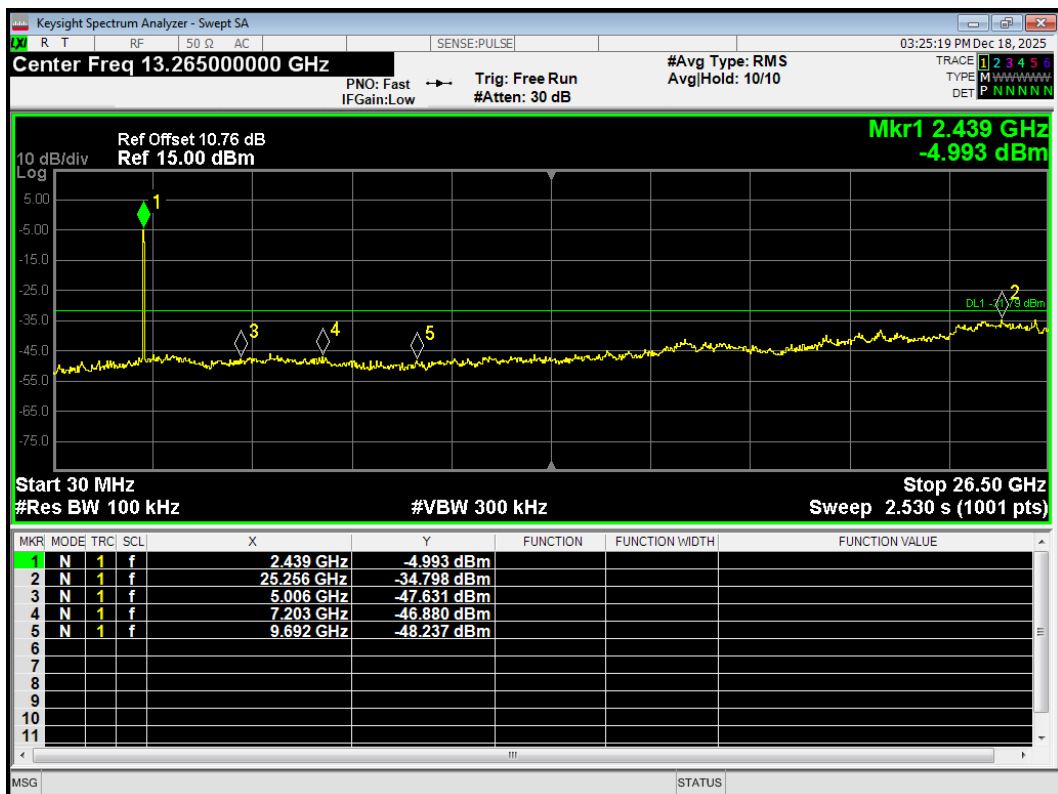
Tx. Spurious 802.11ax(HE40) 2422MHz Emission



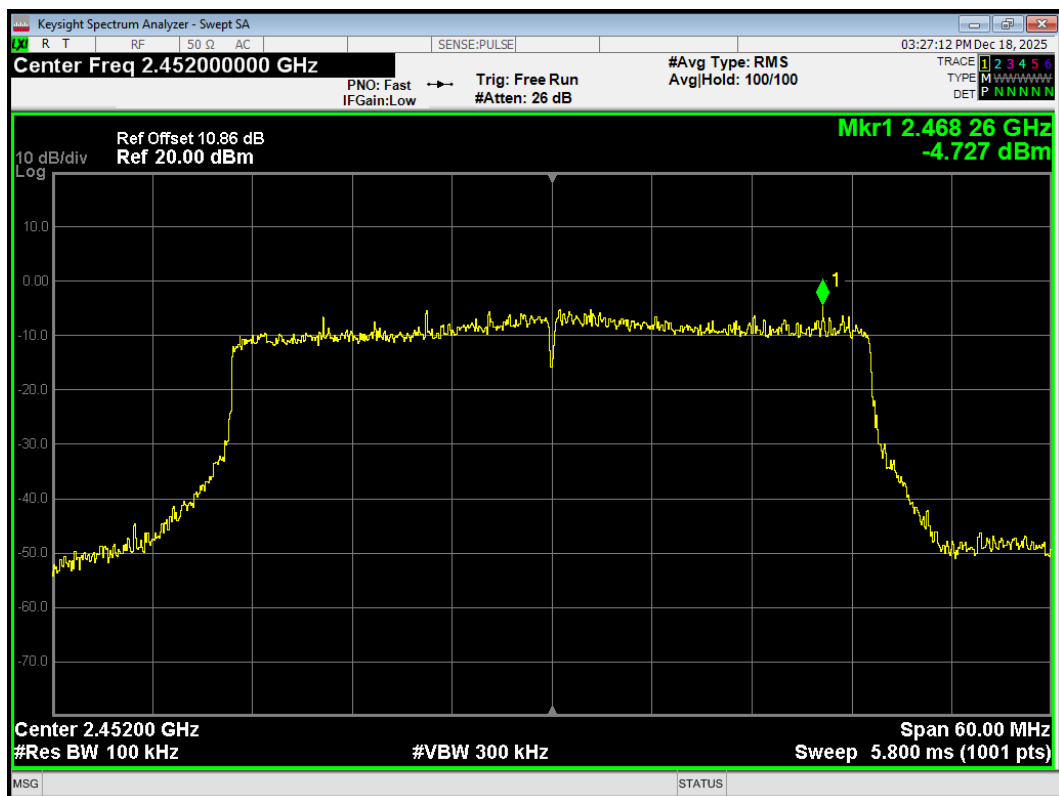
Tx. Spurious 802.11ax(HE40) 2437MHz Ref



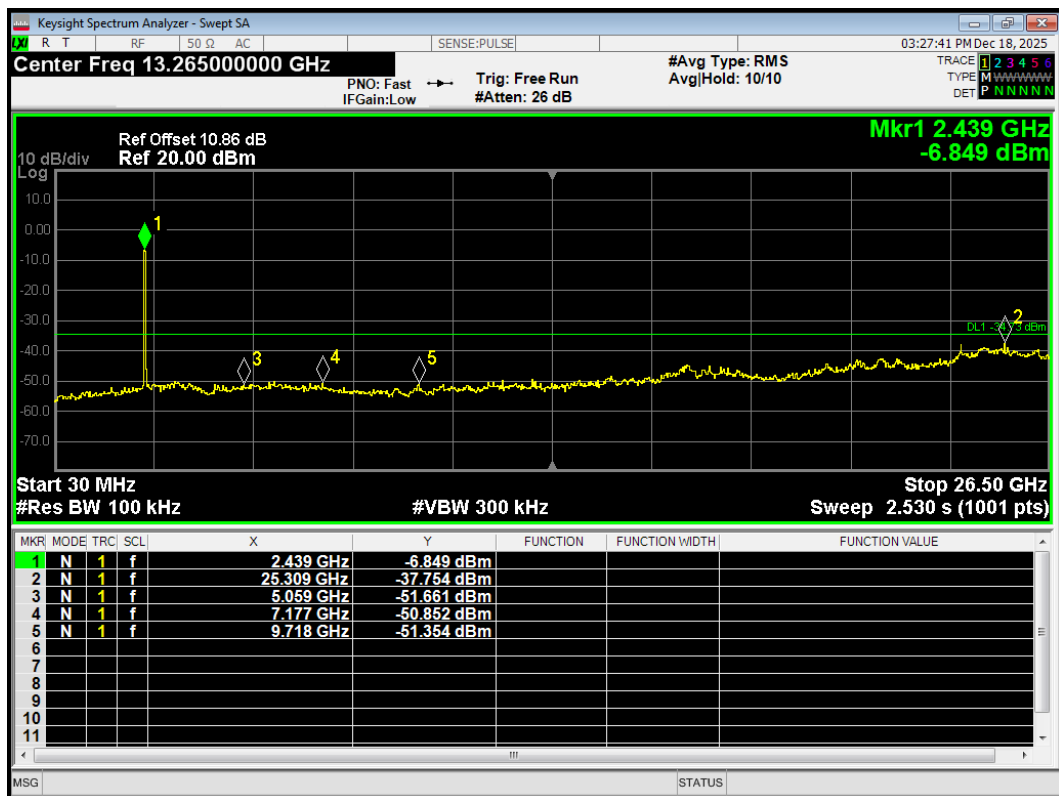
Tx. Spurious 802.11ax(HE40) 2437MHz Emission



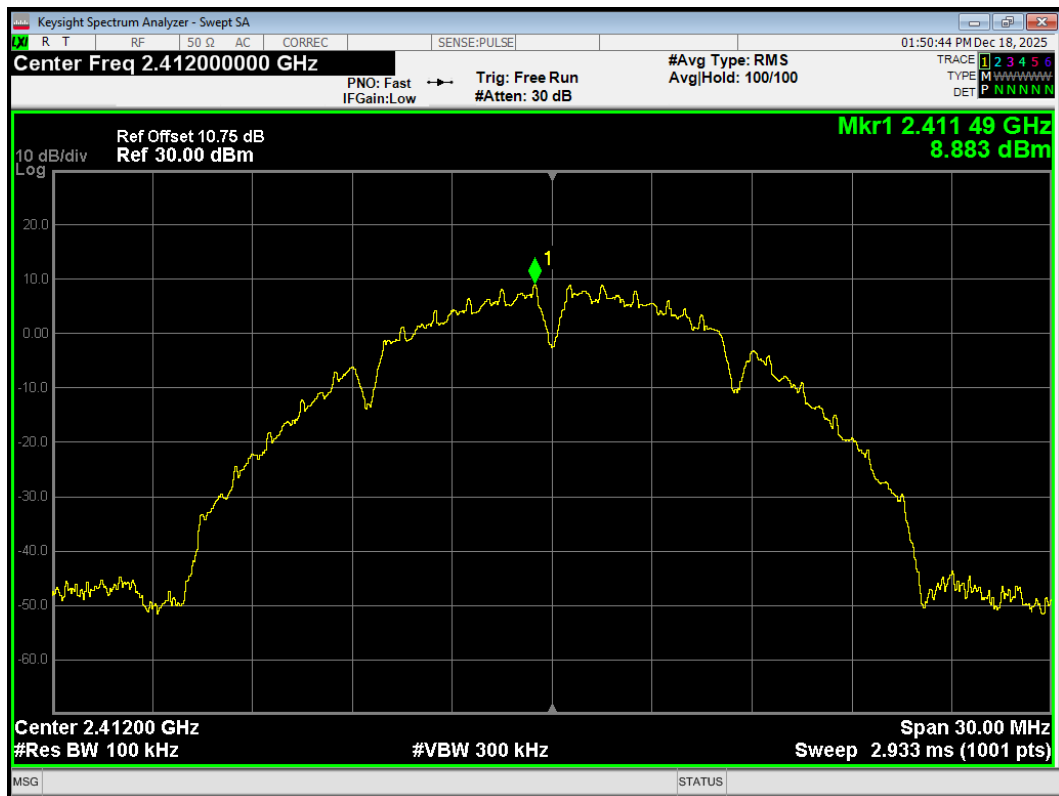
Tx. Spurious 802.11ax(HE40) 2452MHz Ref



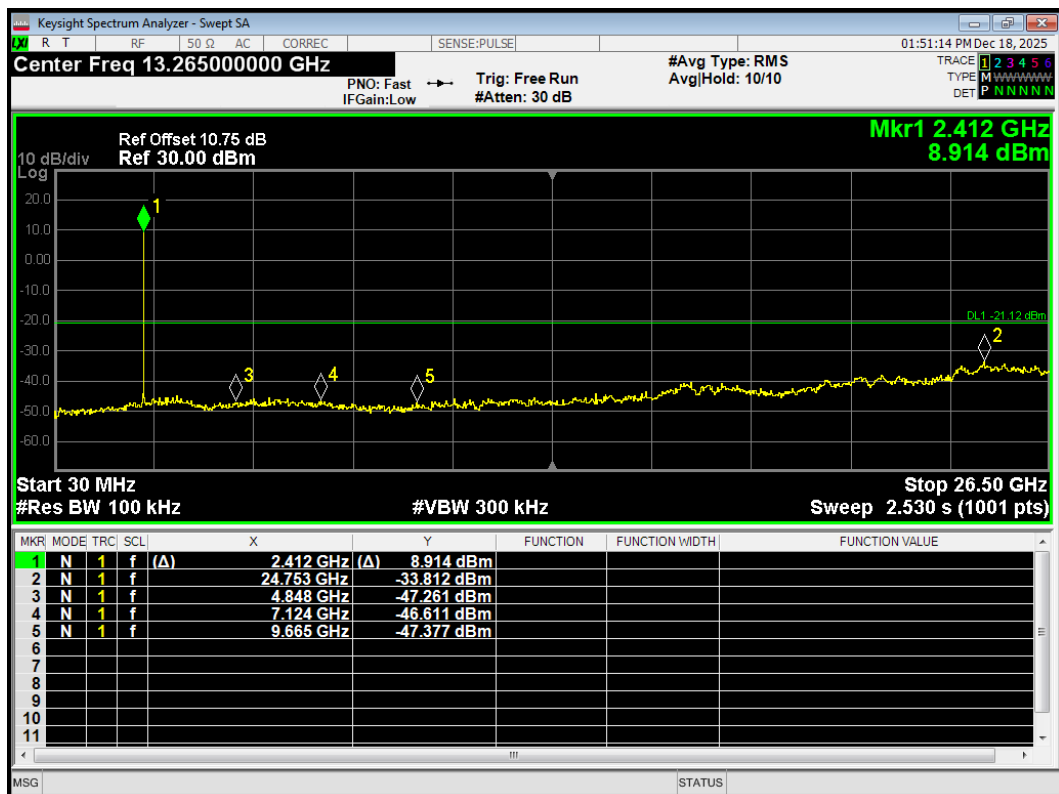
Tx. Spurious 802.11ax(HE40) 2452MHz Emission



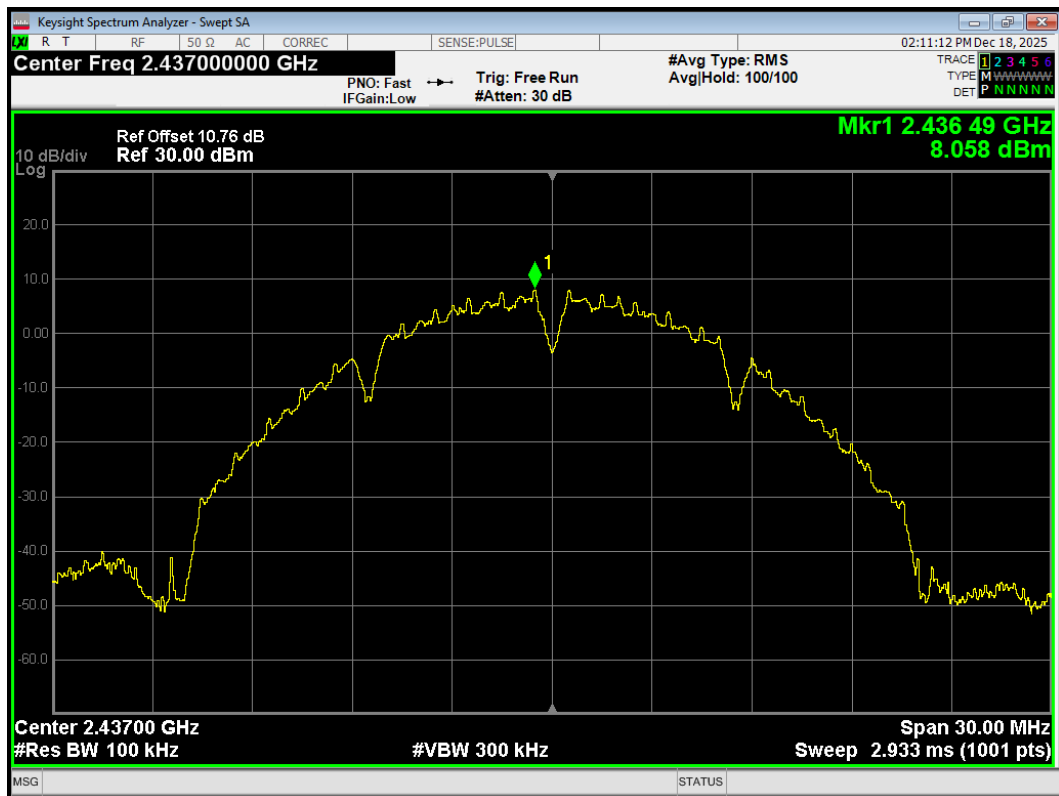
Tx. Spurious 802.11b 2412MHz Ref



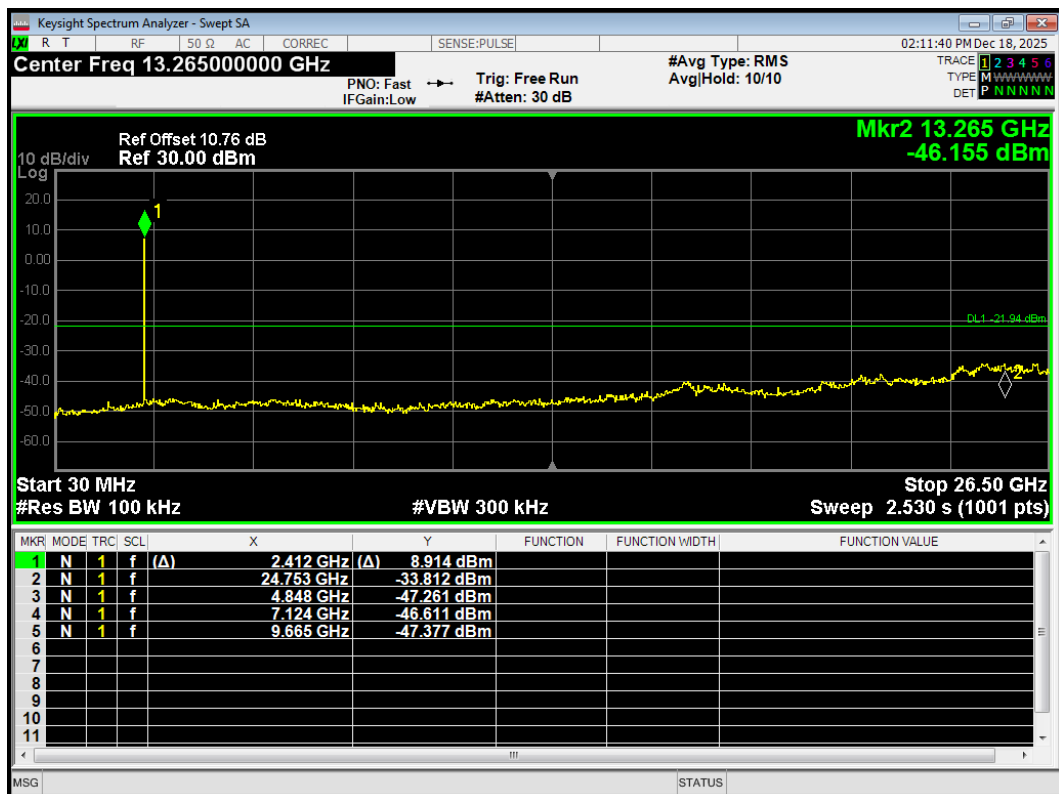
Tx. Spurious 802.11b 2412MHz Emission



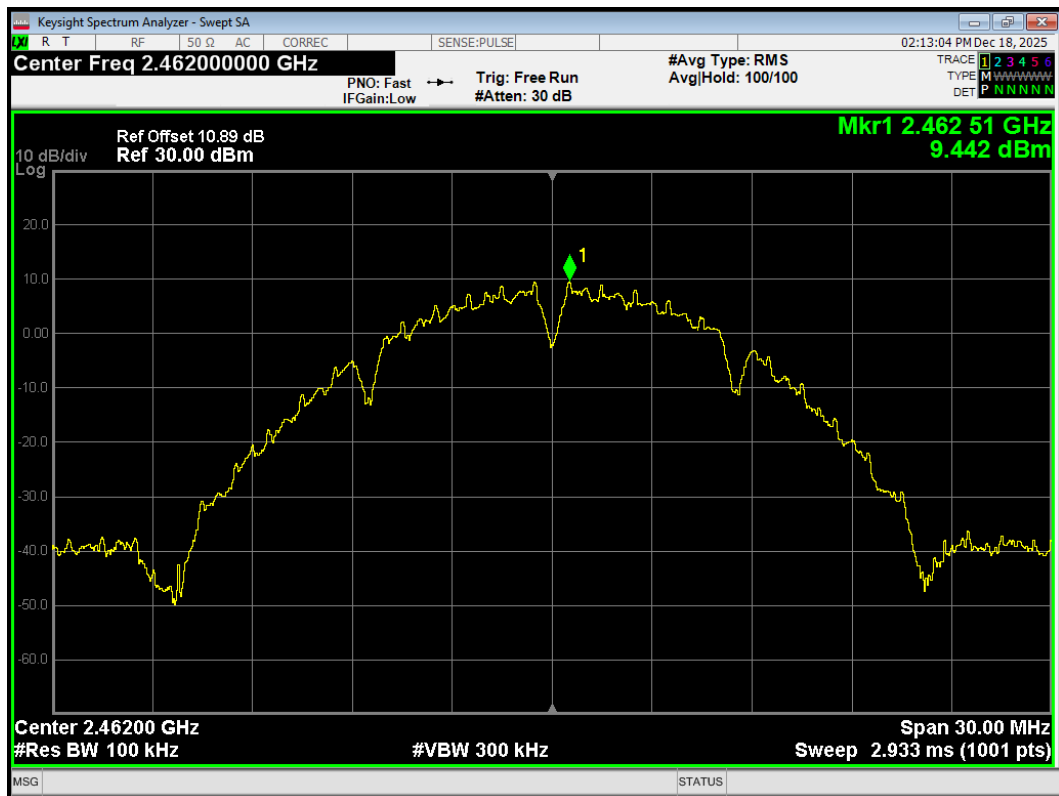
Tx. Spurious 802.11b 2437MHz Ref



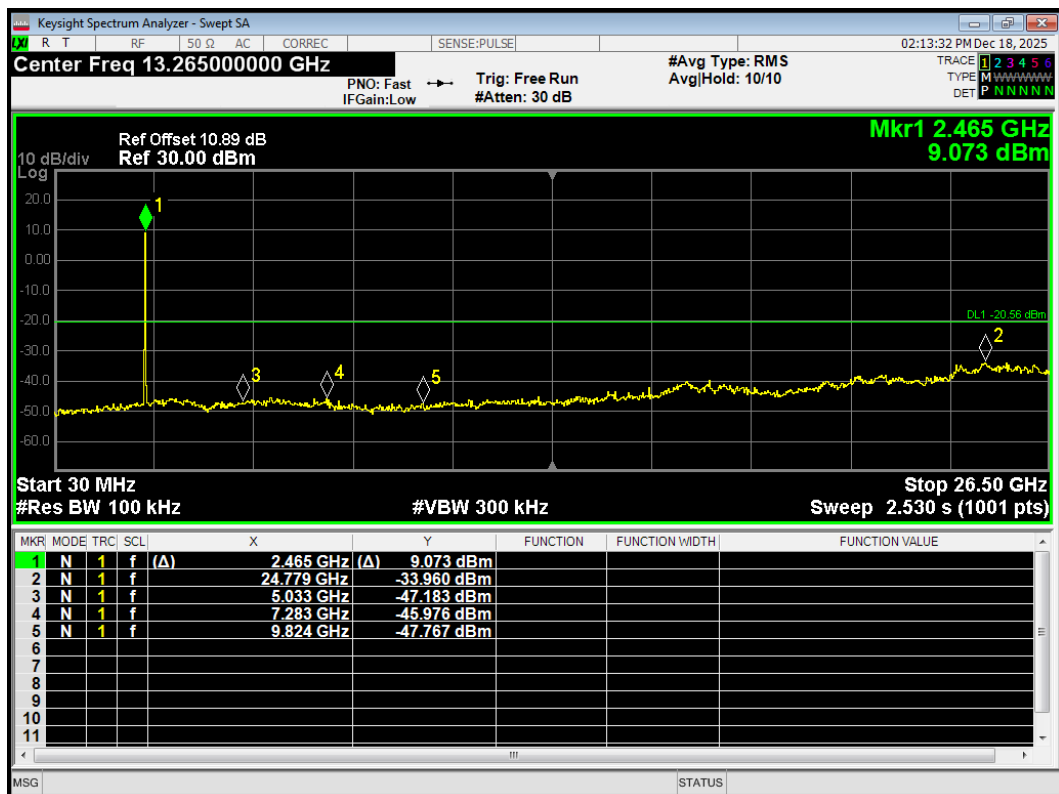
Tx. Spurious 802.11b 2437MHz Emission



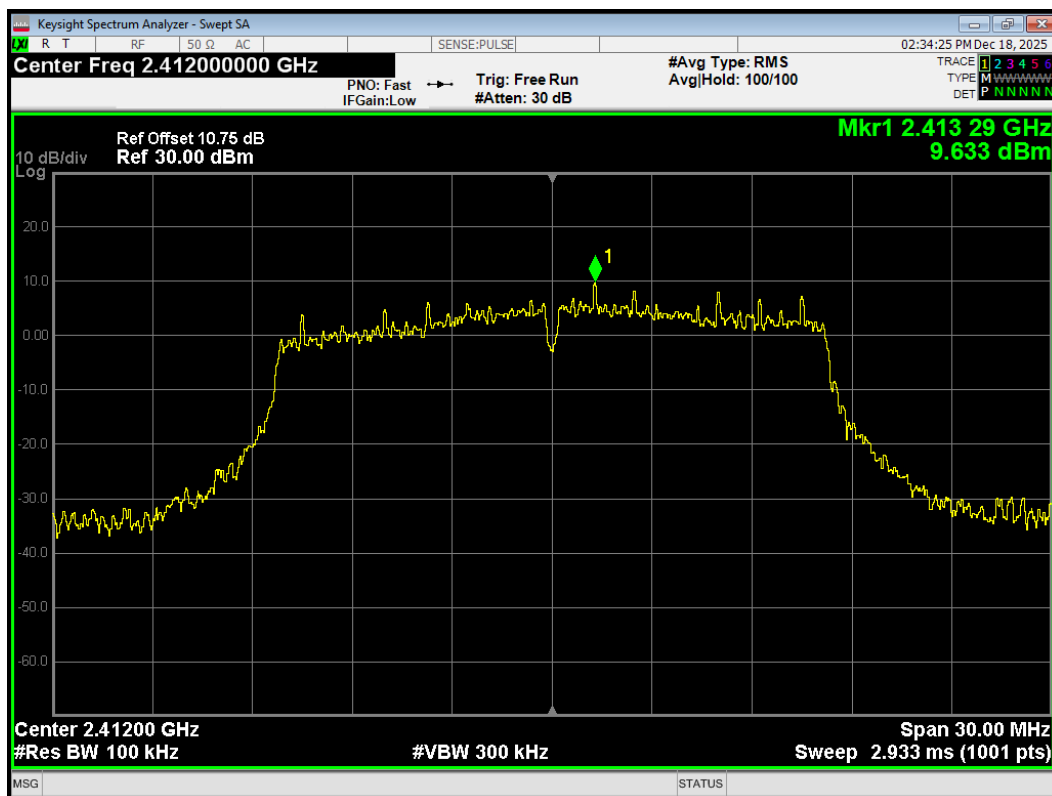
Tx. Spurious 802.11b 2462MHz Ref



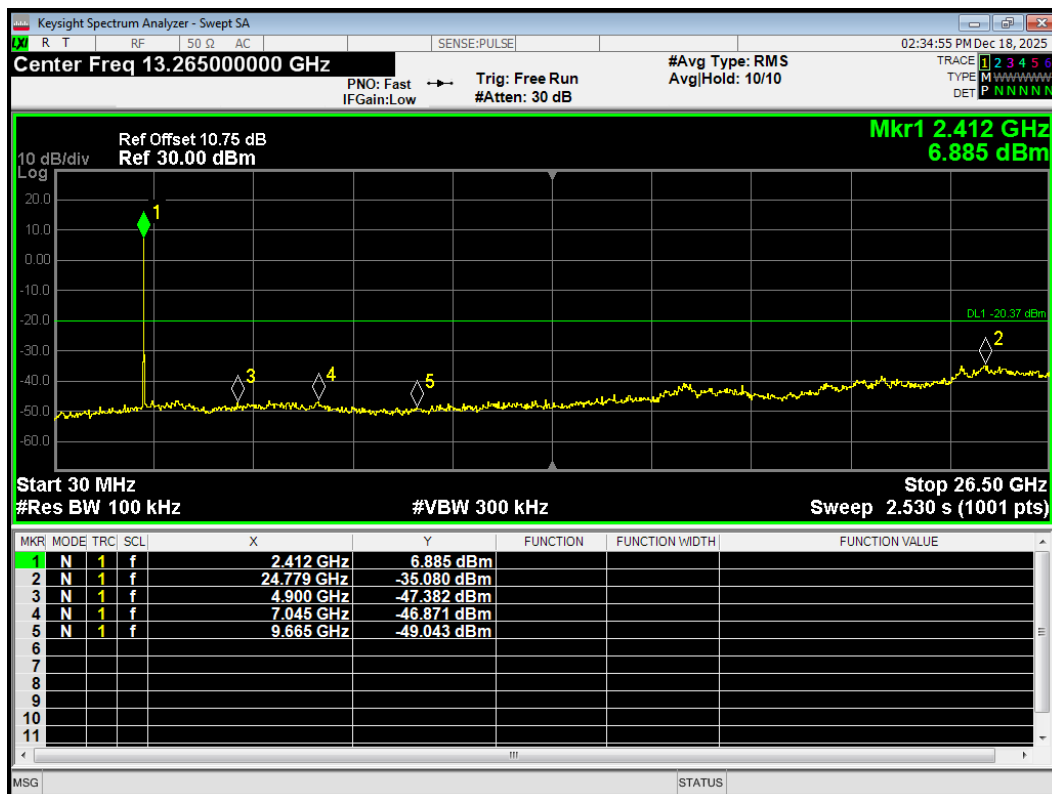
Tx. Spurious 802.11b 2462MHz Emission



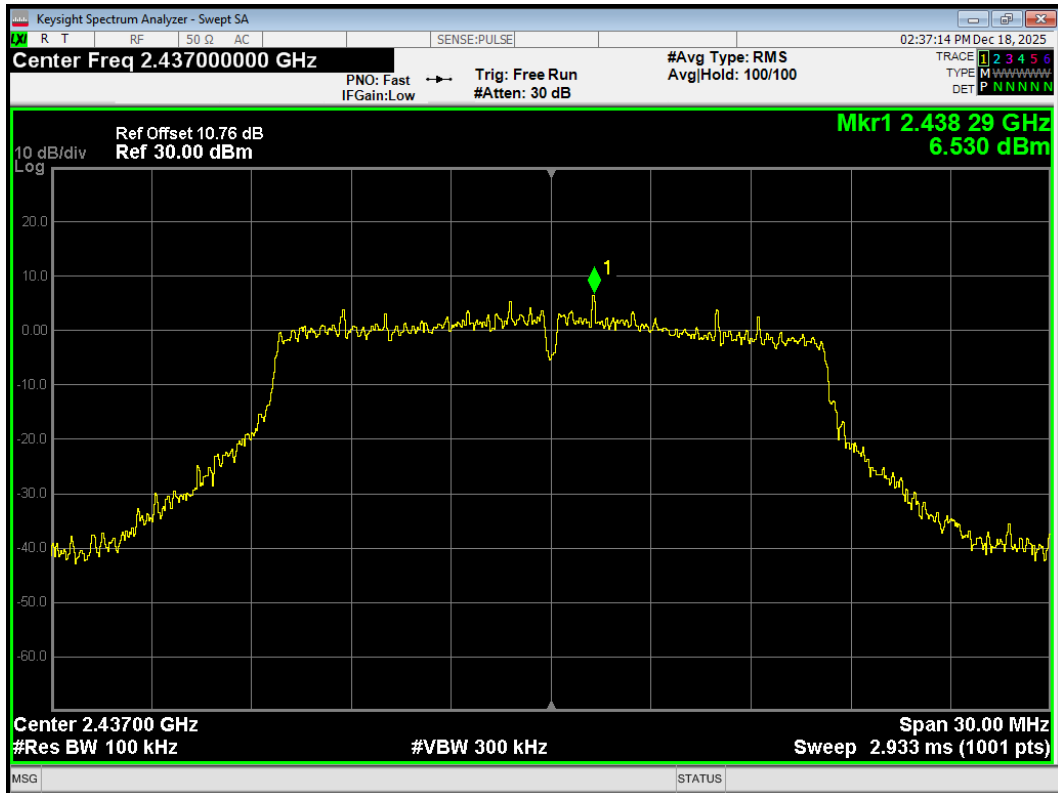
Tx. Spurious 802.11g 2412MHz Ref



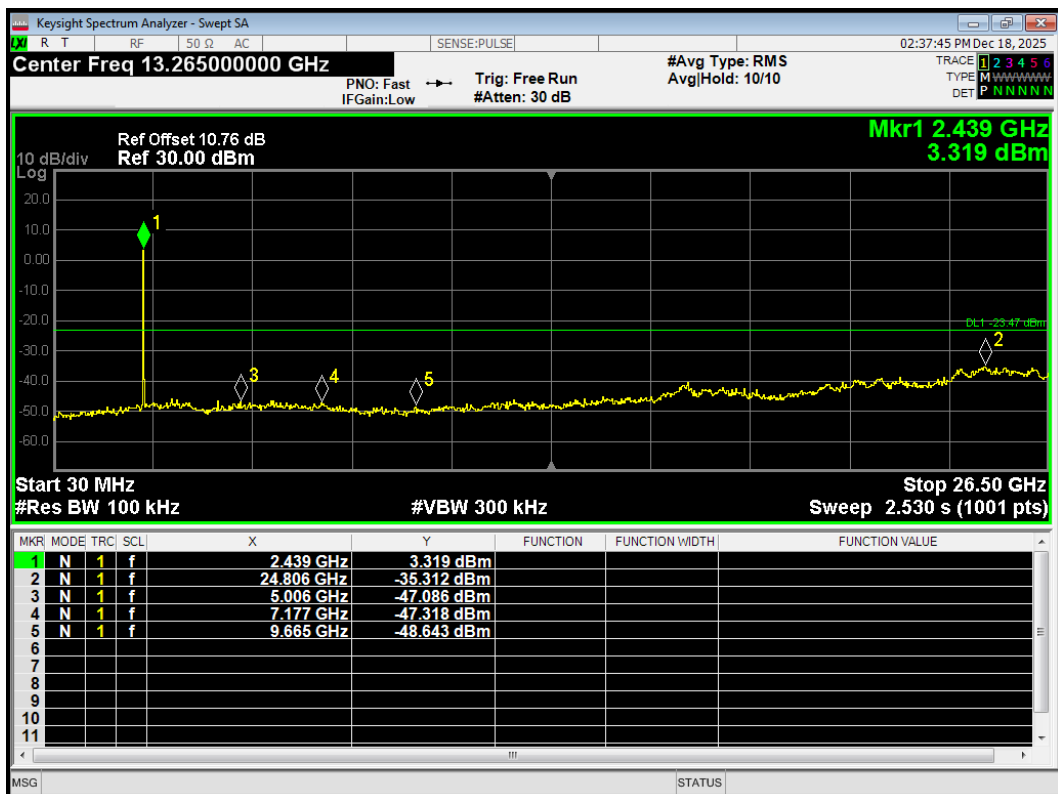
Tx. Spurious 802.11g 2412MHz Emission



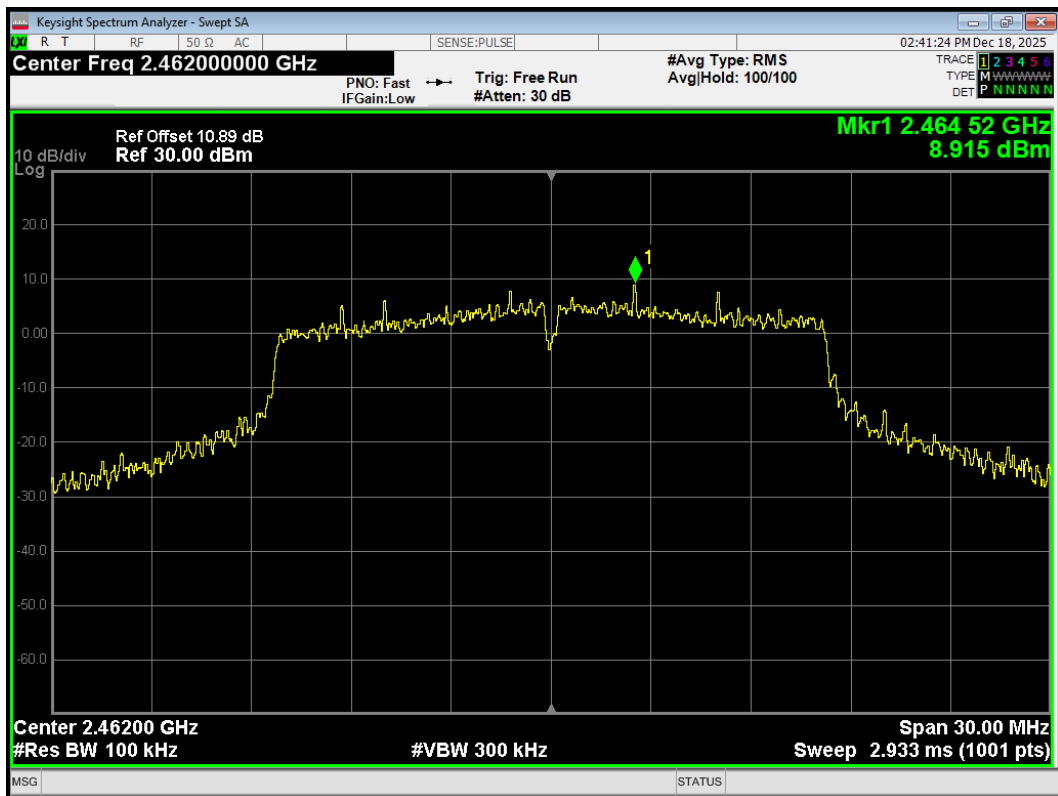
Tx. Spurious 802.11g 2437MHz Ref



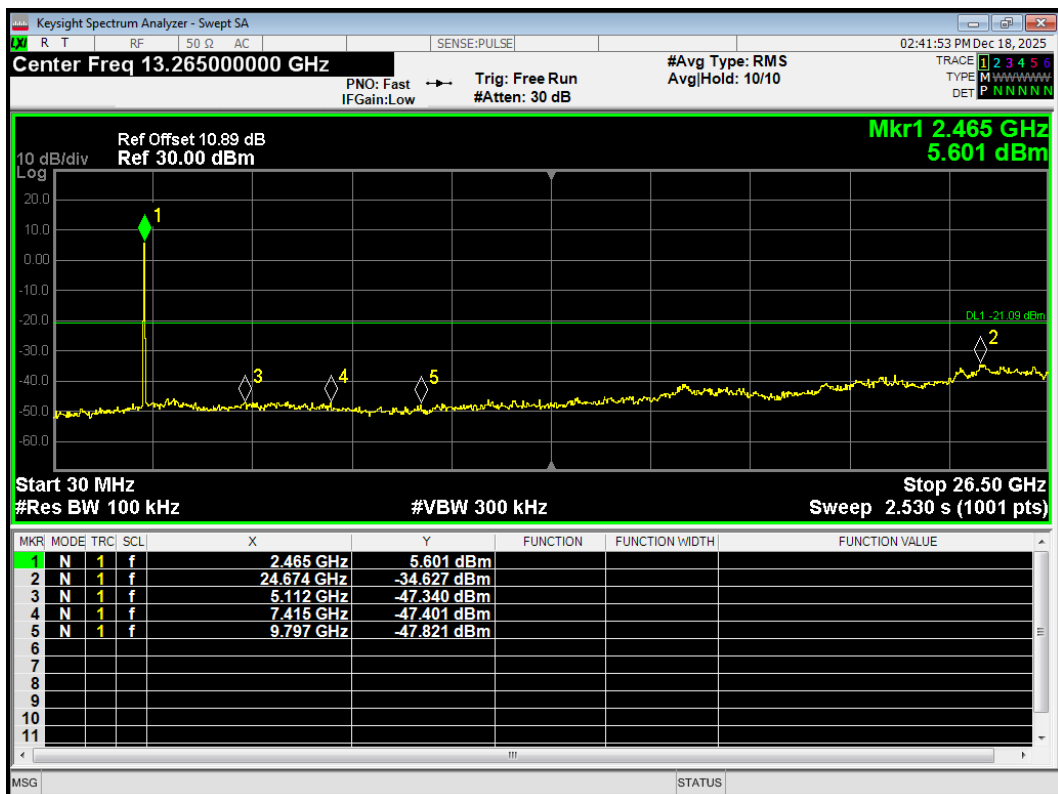
Tx. Spurious 802.11g 2437MHz Emission



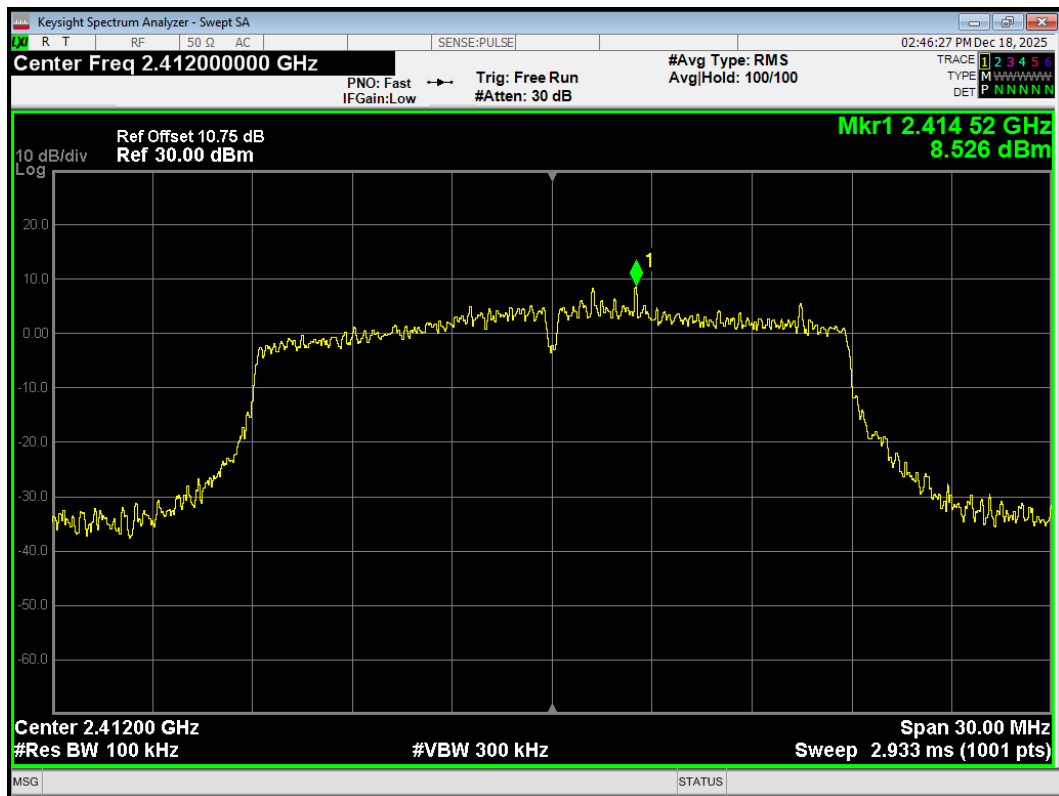
Tx. Spurious 802.11g 2462MHz Ref



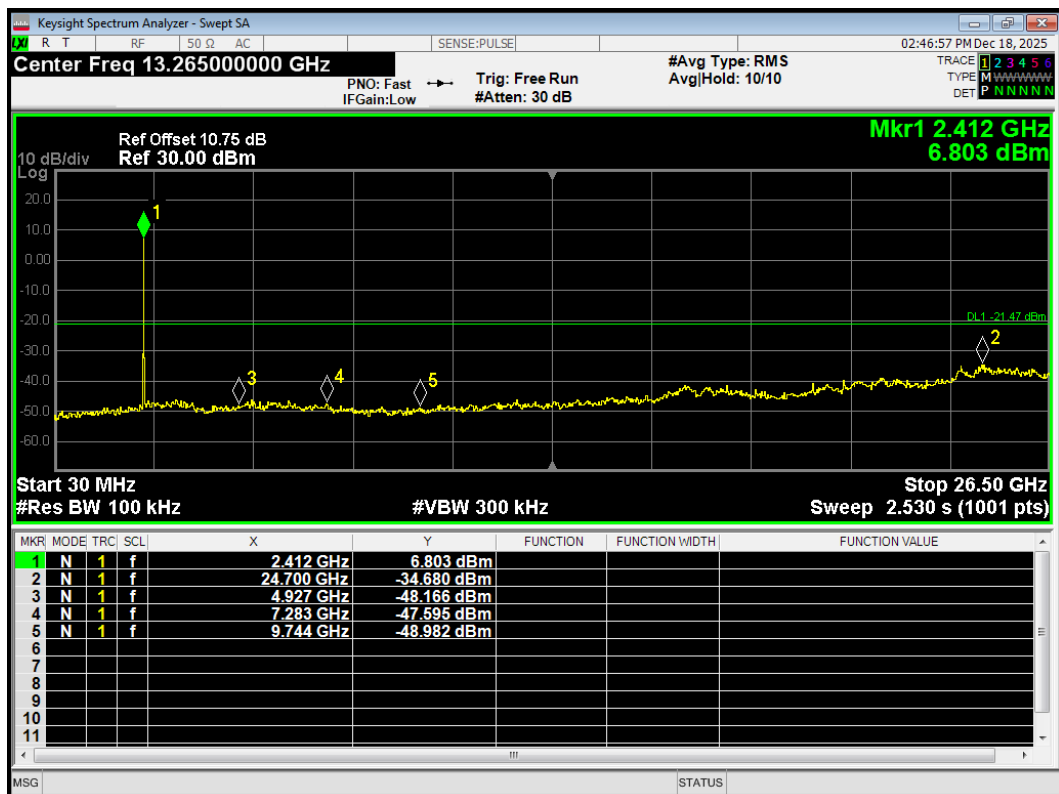
Tx. Spurious 802.11g 2462MHz Emission



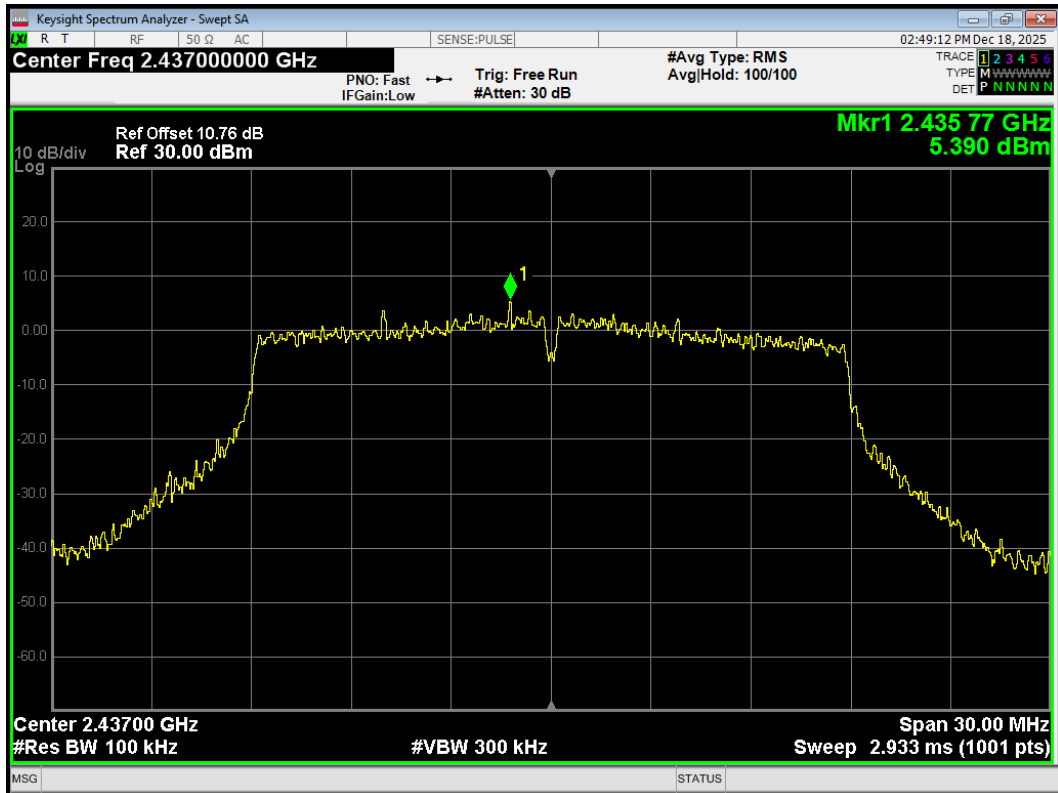
Tx. Spurious 802.11n(HT20) 2412MHz Ref



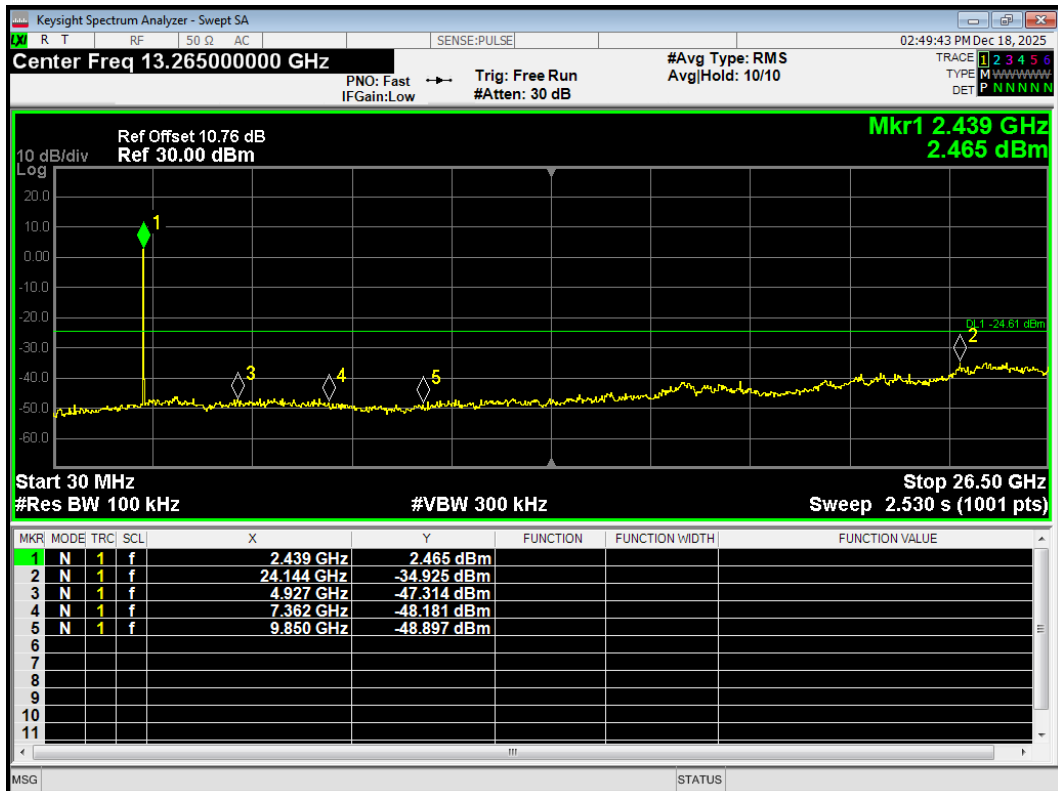
Tx. Spurious 802.11n(HT20) 2412MHz Emission



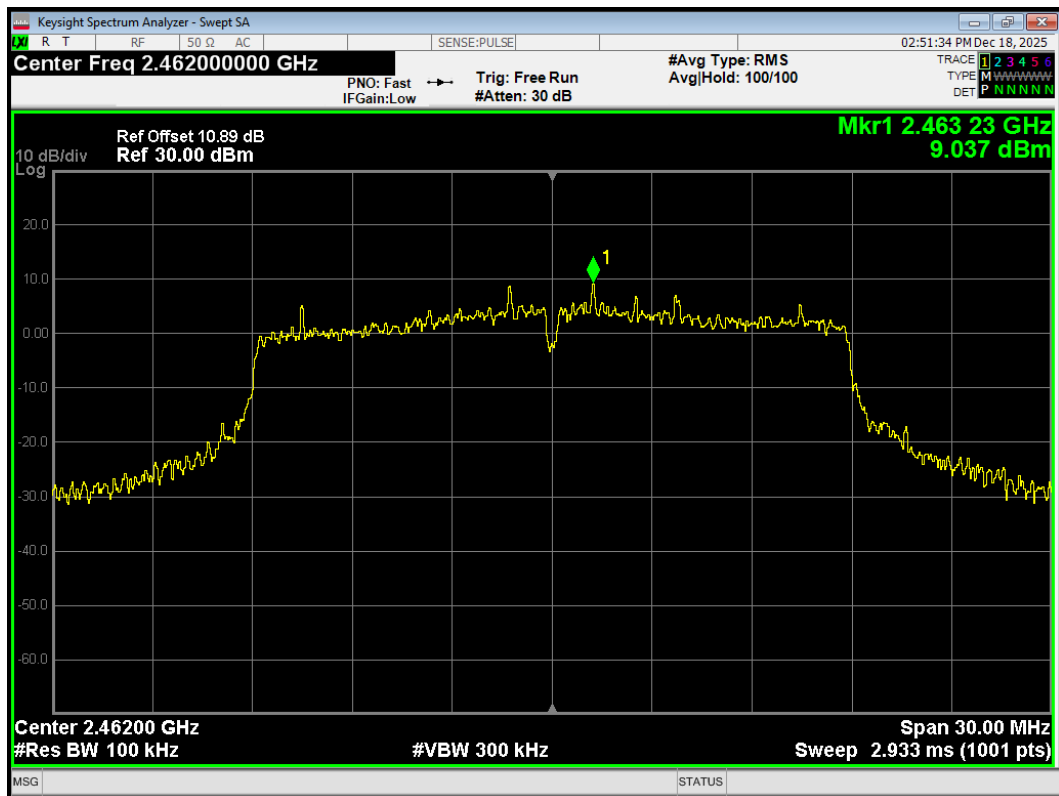
Tx. Spurious 802.11n(HT20) 2437MHz Ref



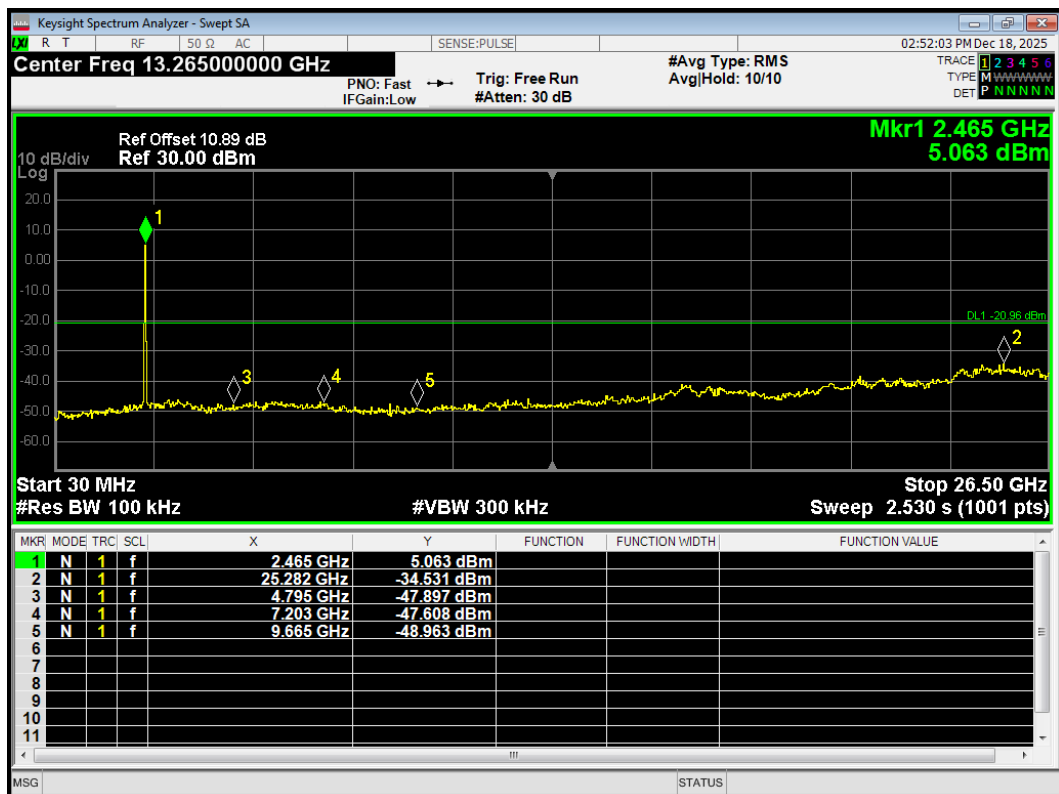
Tx. Spurious 802.11n(HT20) 2437MHz Emission



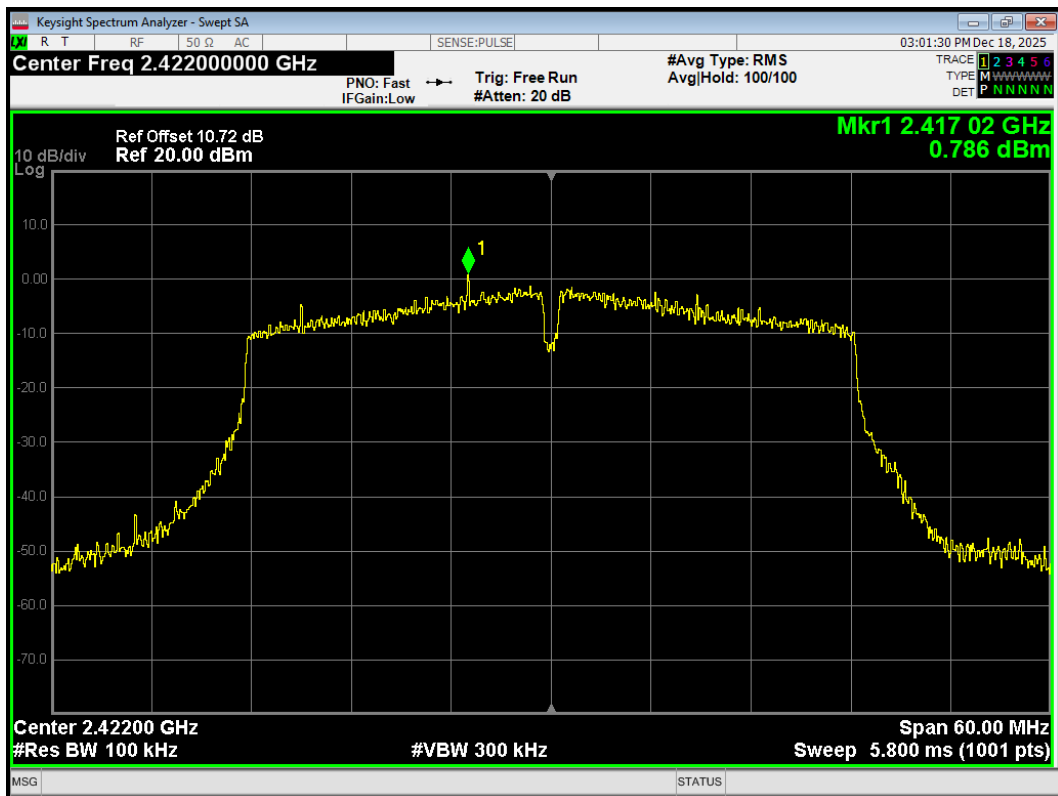
Tx. Spurious 802.11n(HT20) 2462MHz Ref



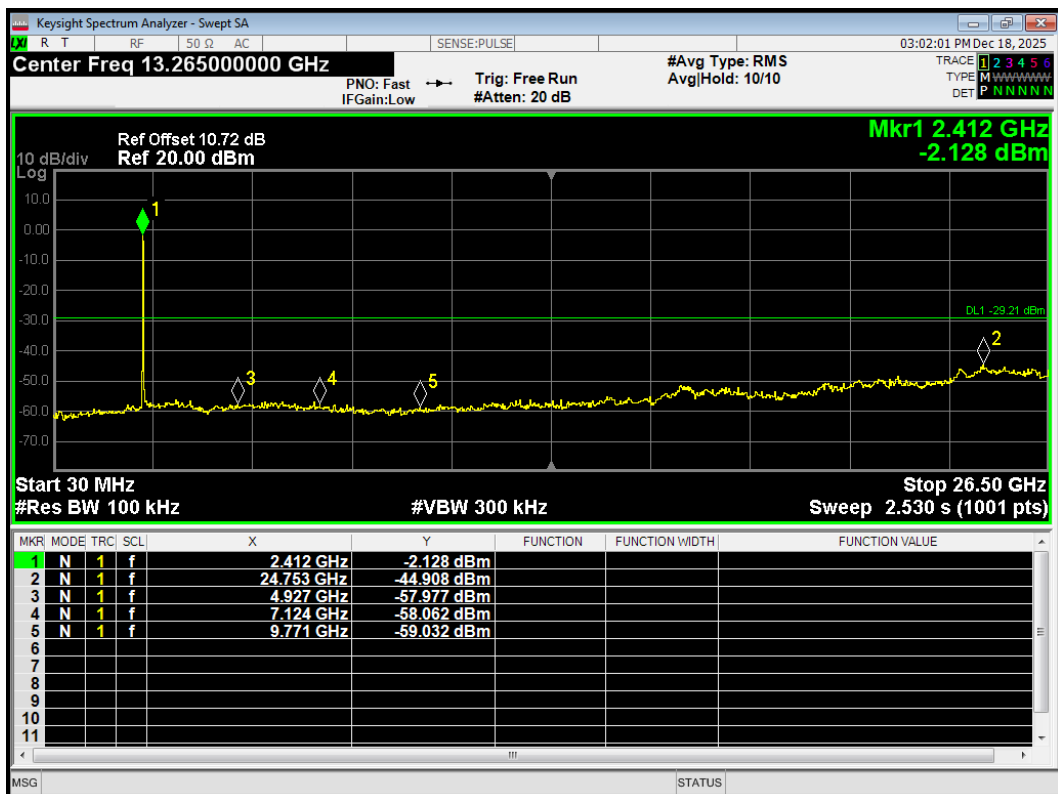
Tx. Spurious 802.11n(HT20) 2462MHz Emission



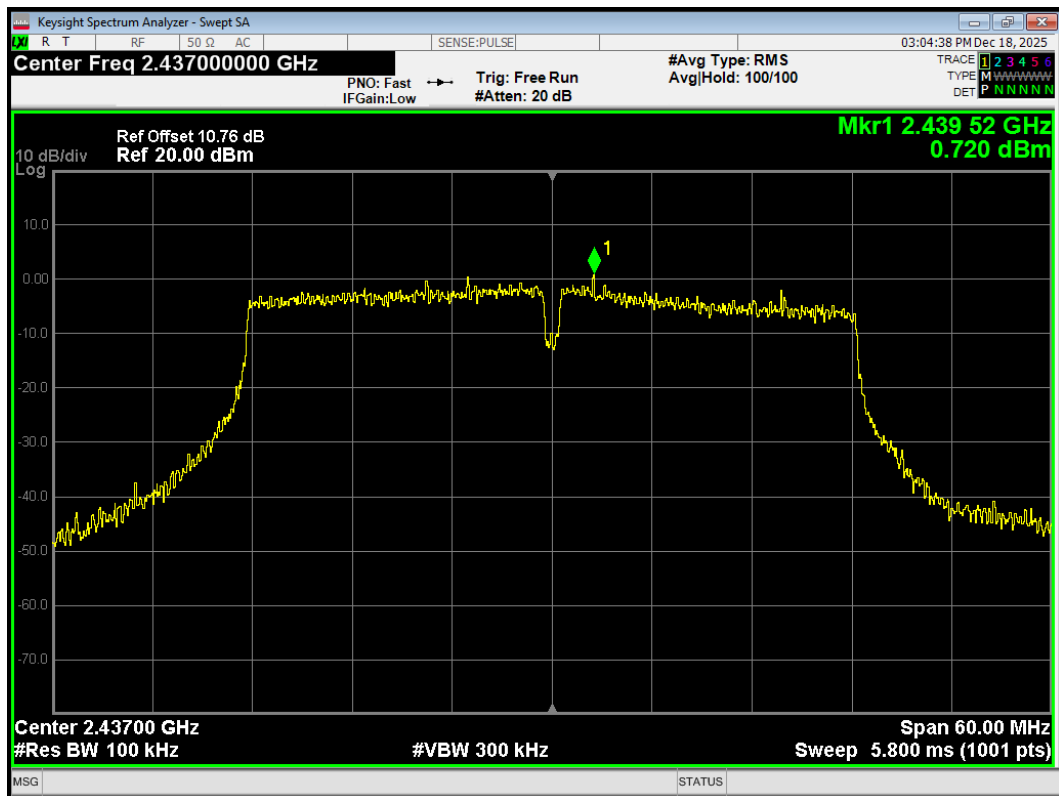
Tx. Spurious 802.11n(HT40) 2422MHz Ref



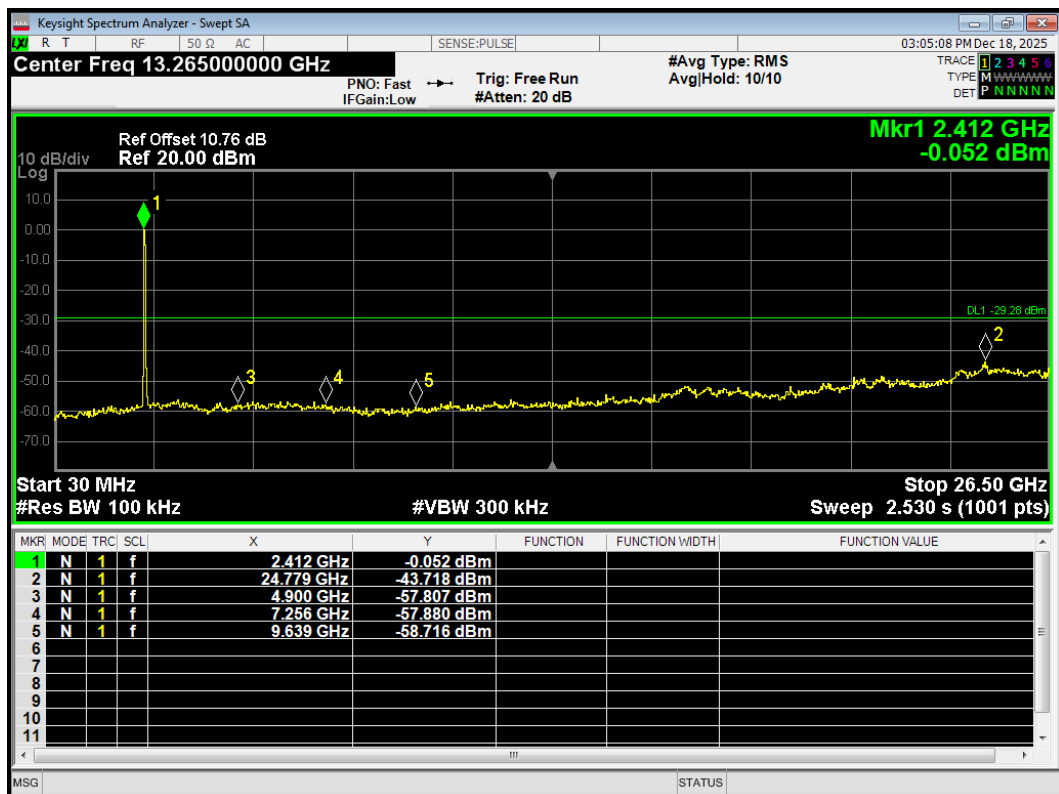
Tx. Spurious 802.11n(HT40) 2422MHz Emission



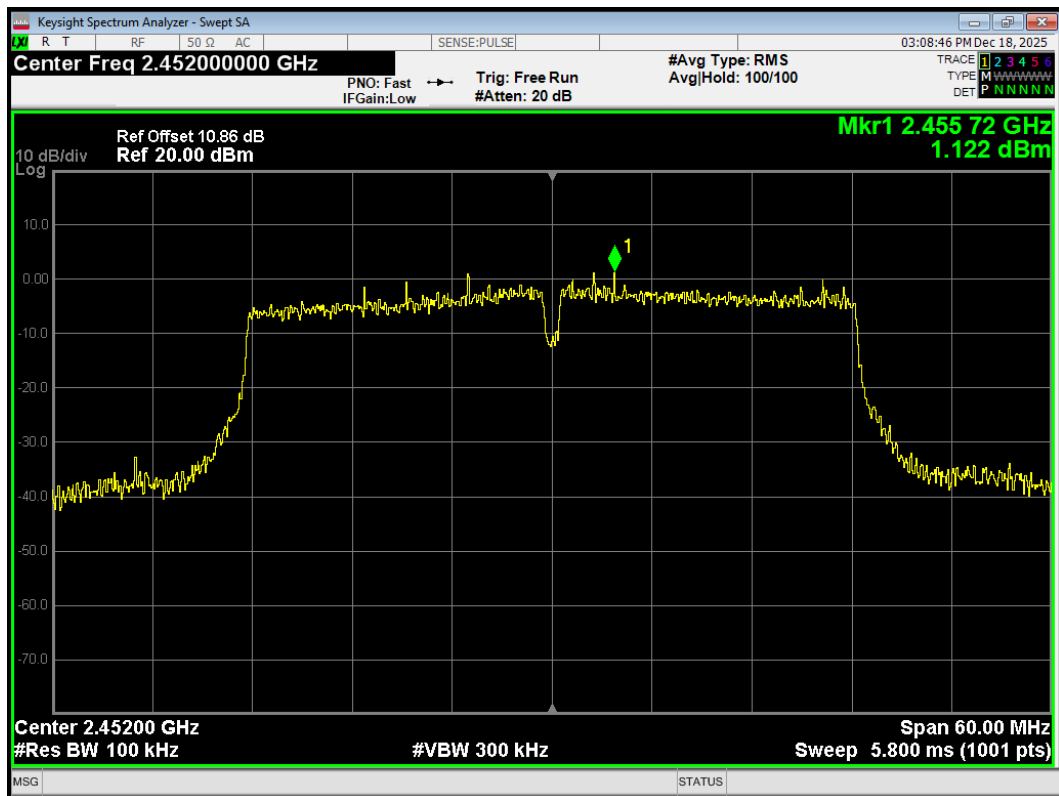
Tx. Spurious 802.11n(HT40) 2437MHz Ref



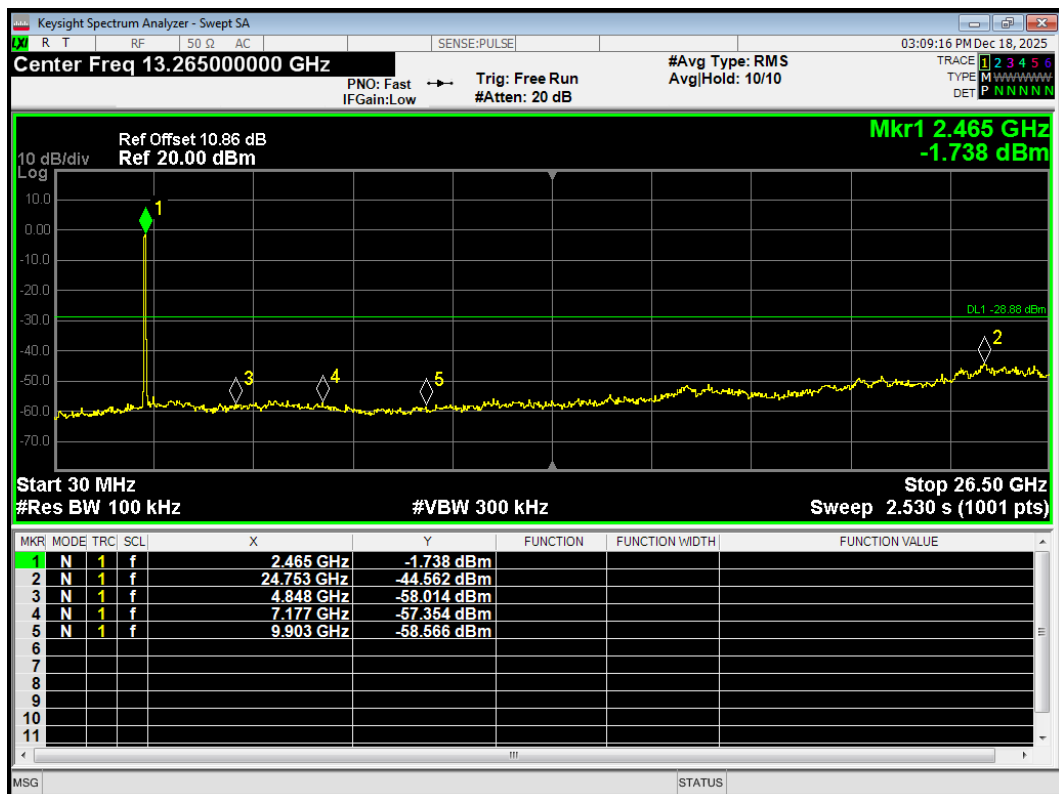
Tx. Spurious 802.11n(HT40) 2437MHz Emission



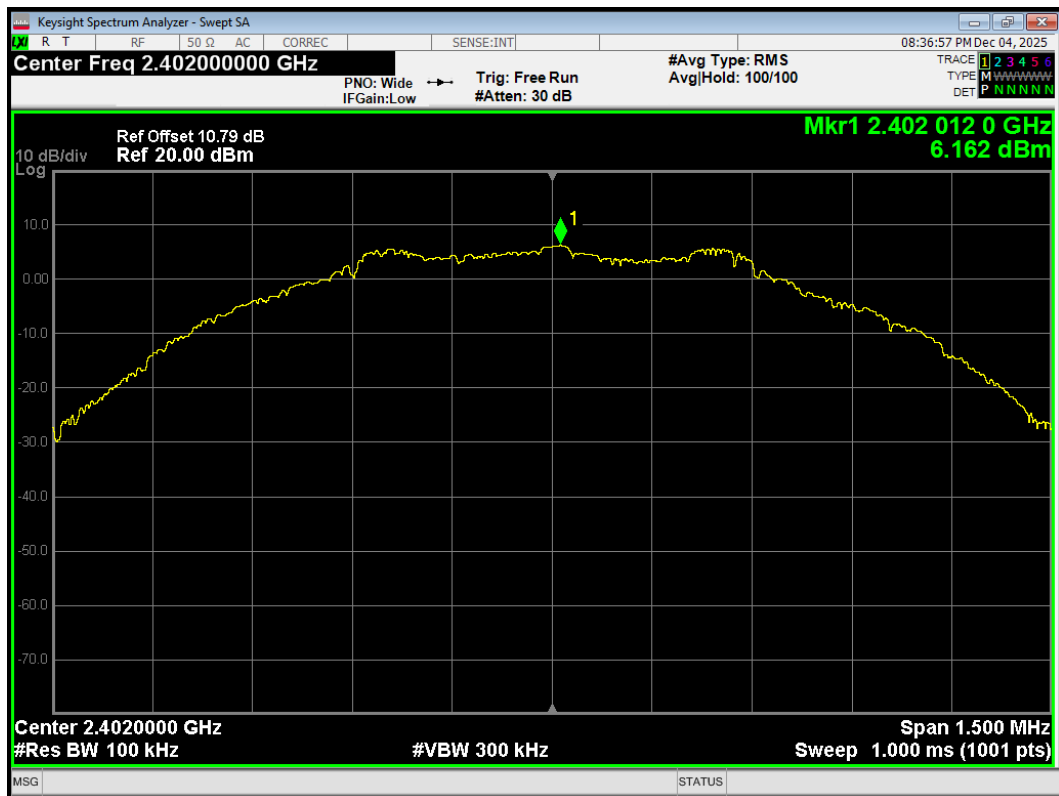
Tx. Spurious 802.11n(HT40) 2452MHz Ref



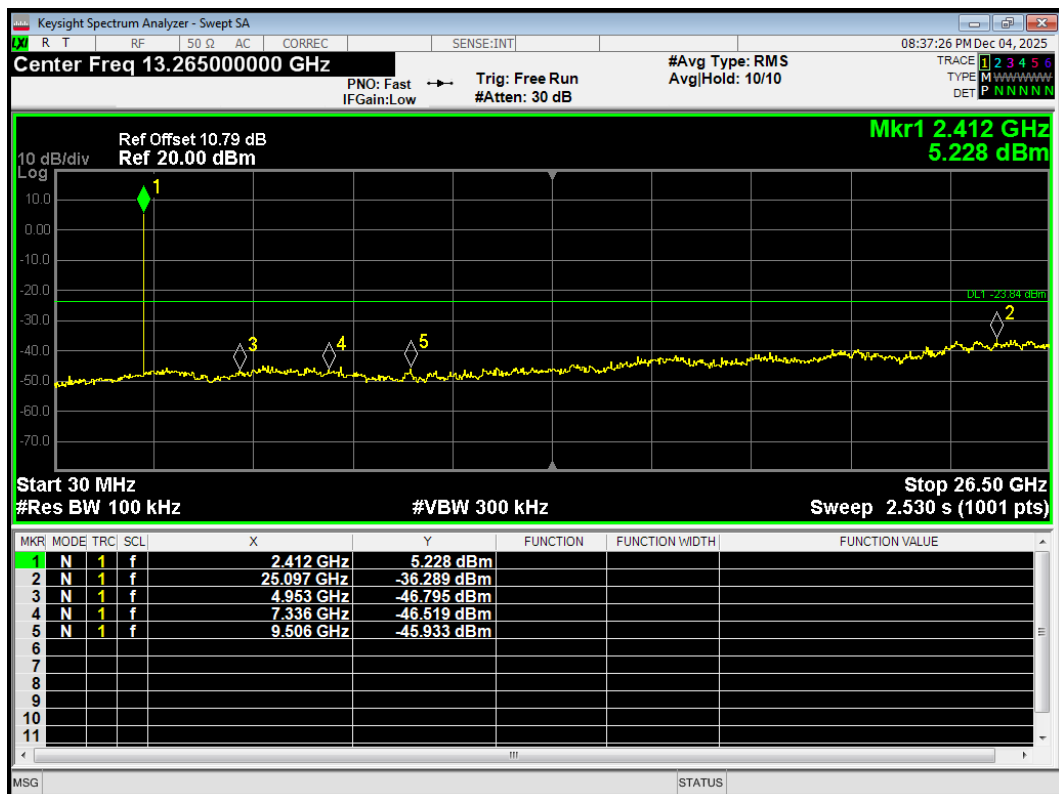
Tx. Spurious 802.11n(HT40) 2452MHz Emission



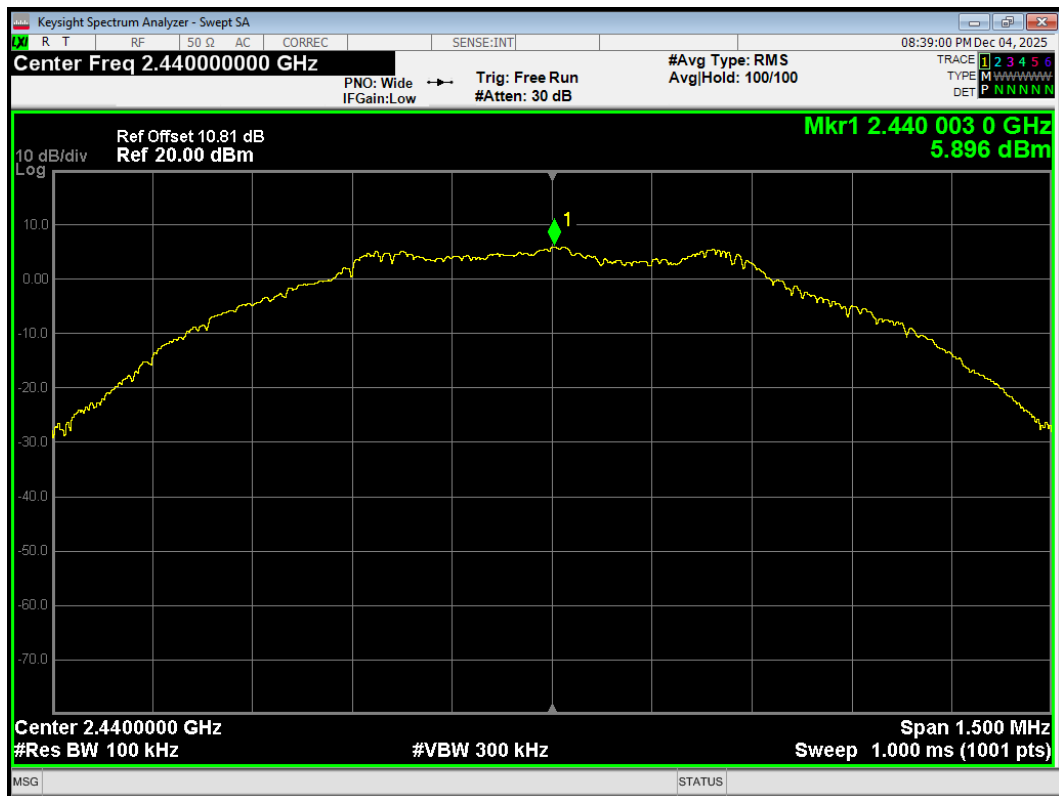
Tx. Spurious BLE (1M) 2402MHz Ref



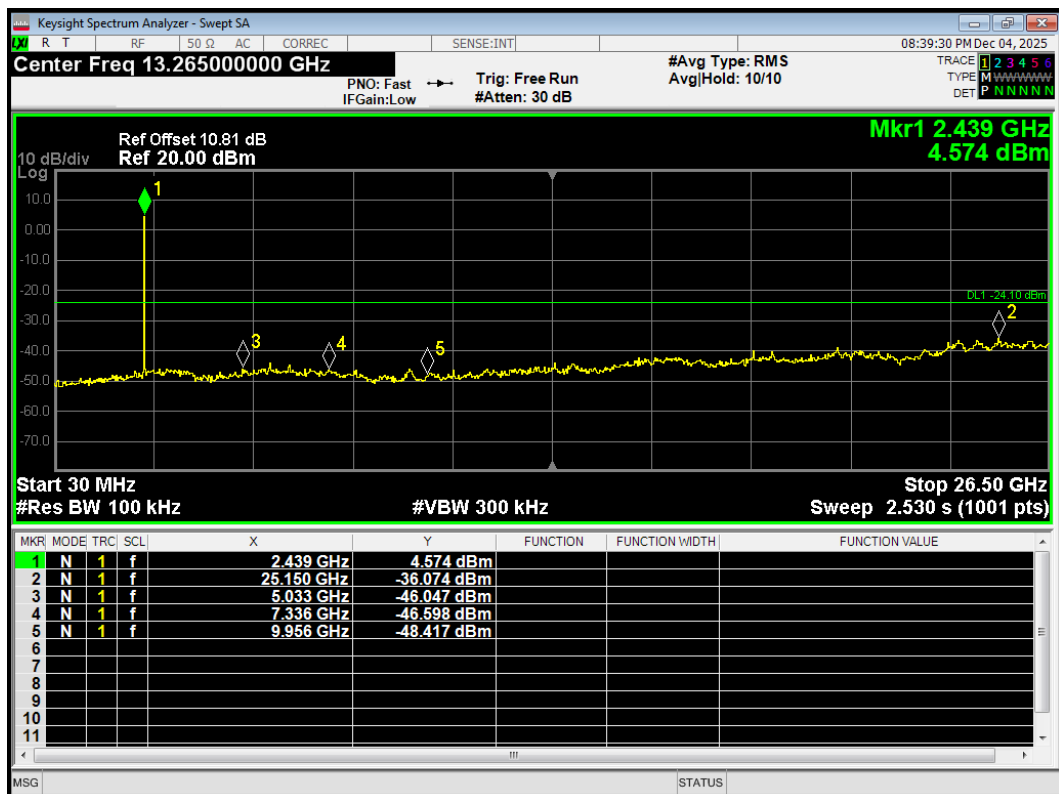
Tx. Spurious BLE (1M) 2402MHz Emission



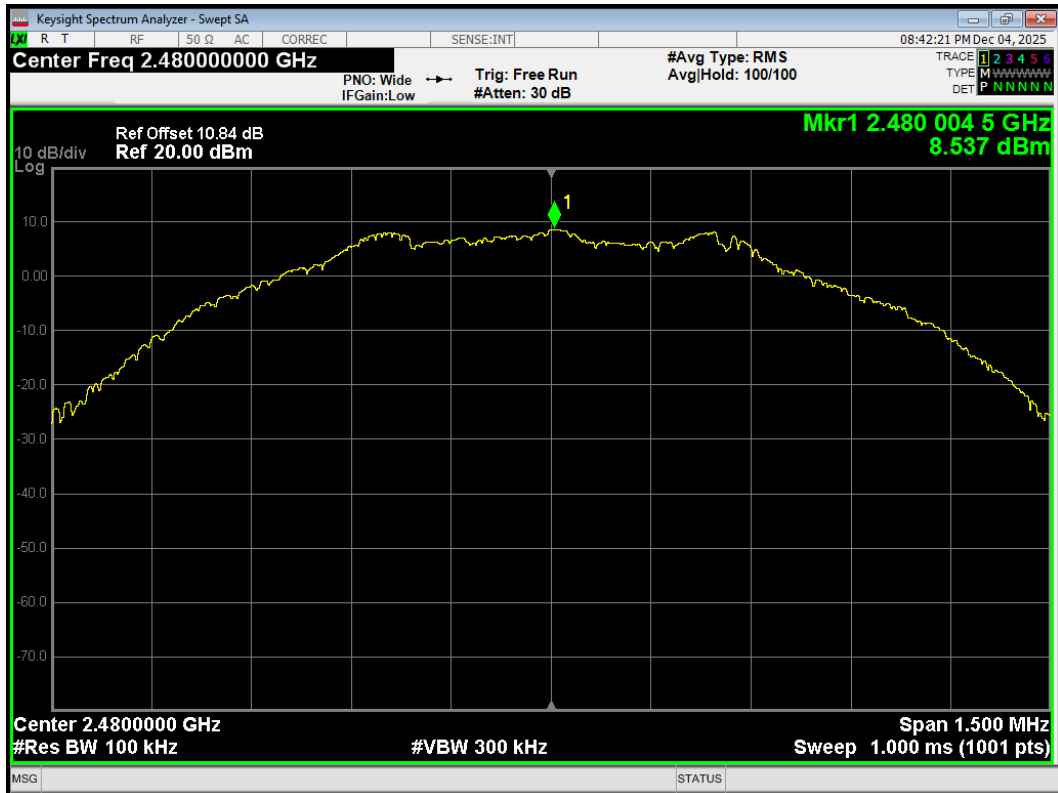
Tx. Spurious BLE (1M) 2440MHz Ref



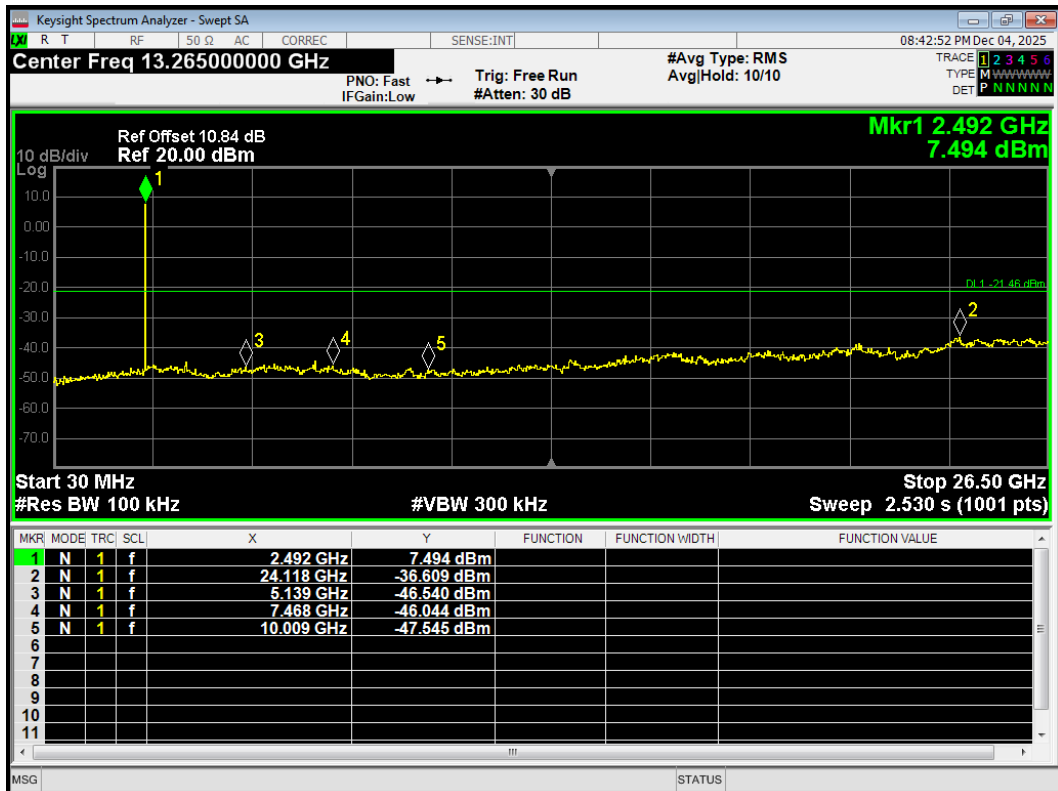
Tx. Spurious BLE (1M) 2440MHz Emission



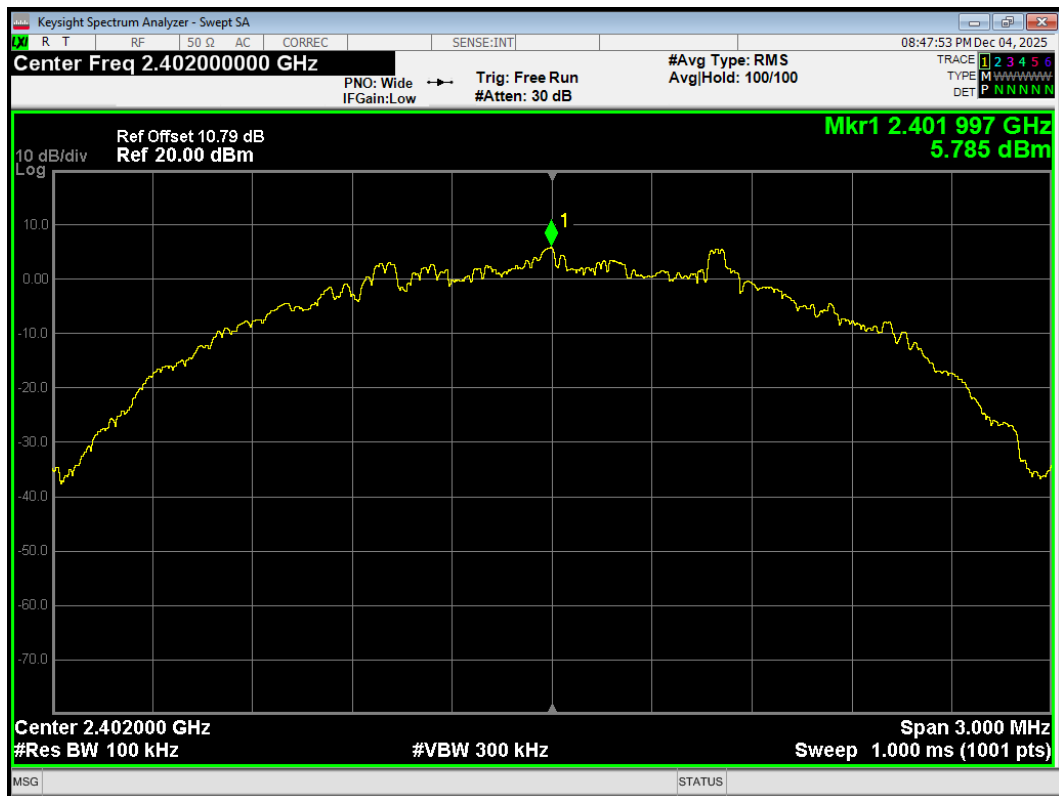
Tx. Spurious BLE (1M) 2480MHz Ref



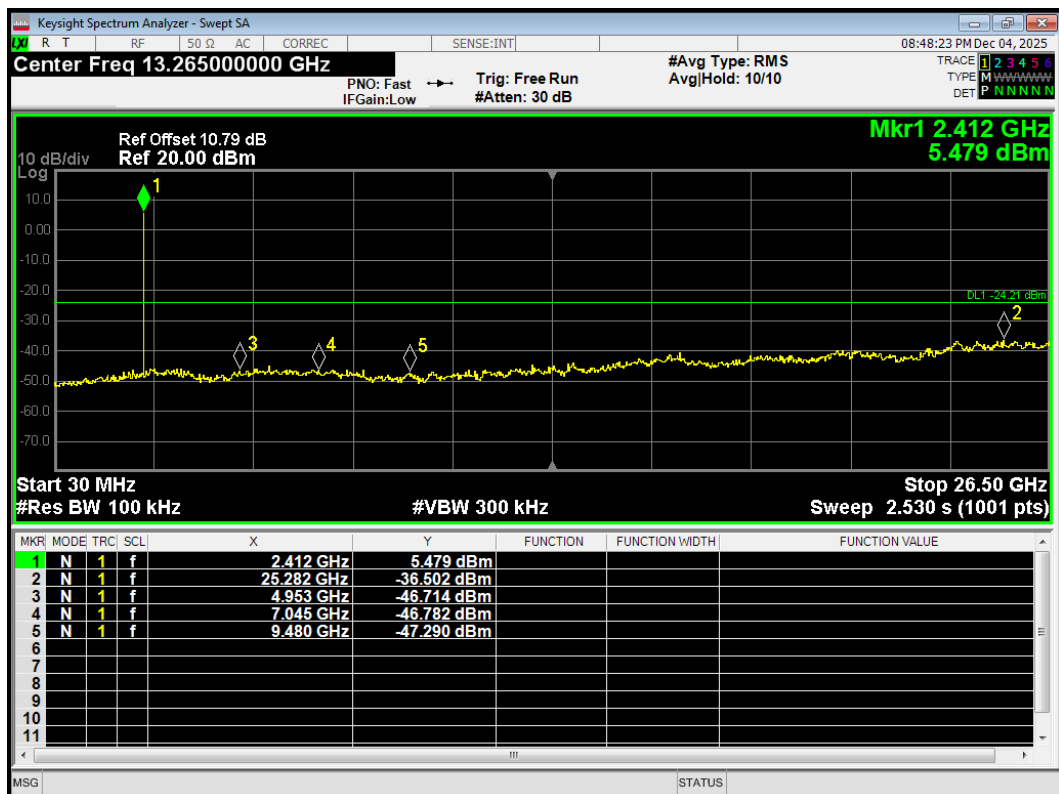
Tx. Spurious BLE (1M) 2480MHz Emission



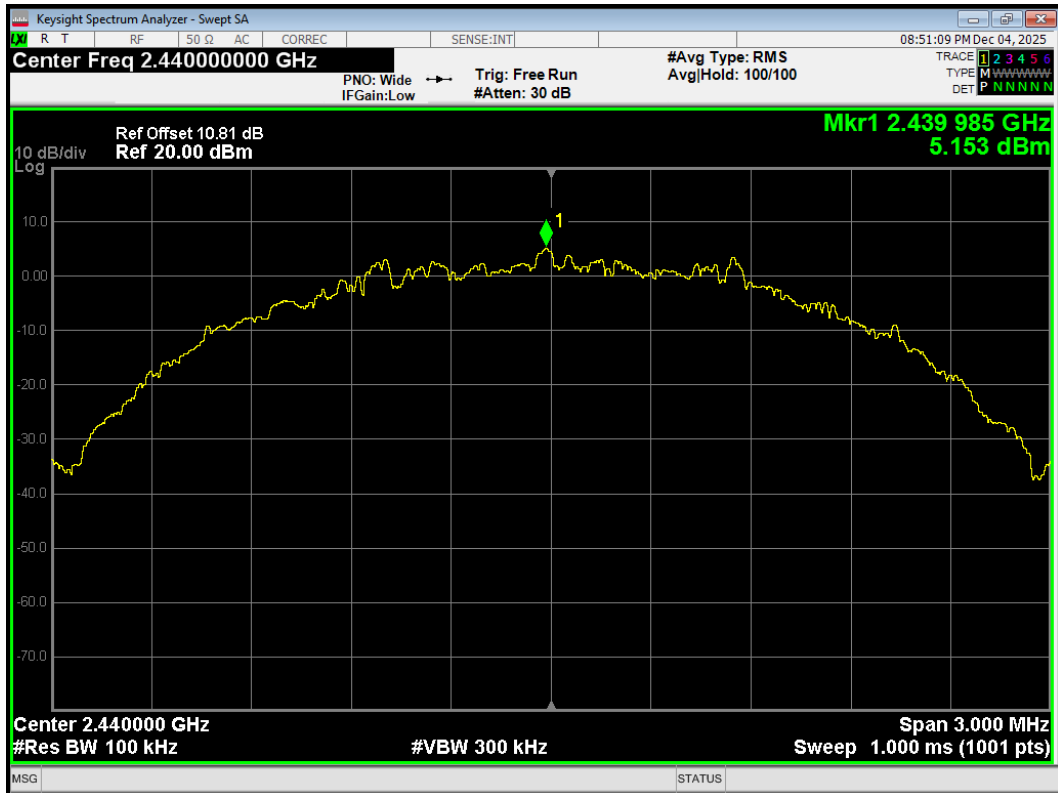
Tx. Spurious BLE (2M) 2402MHz Ref



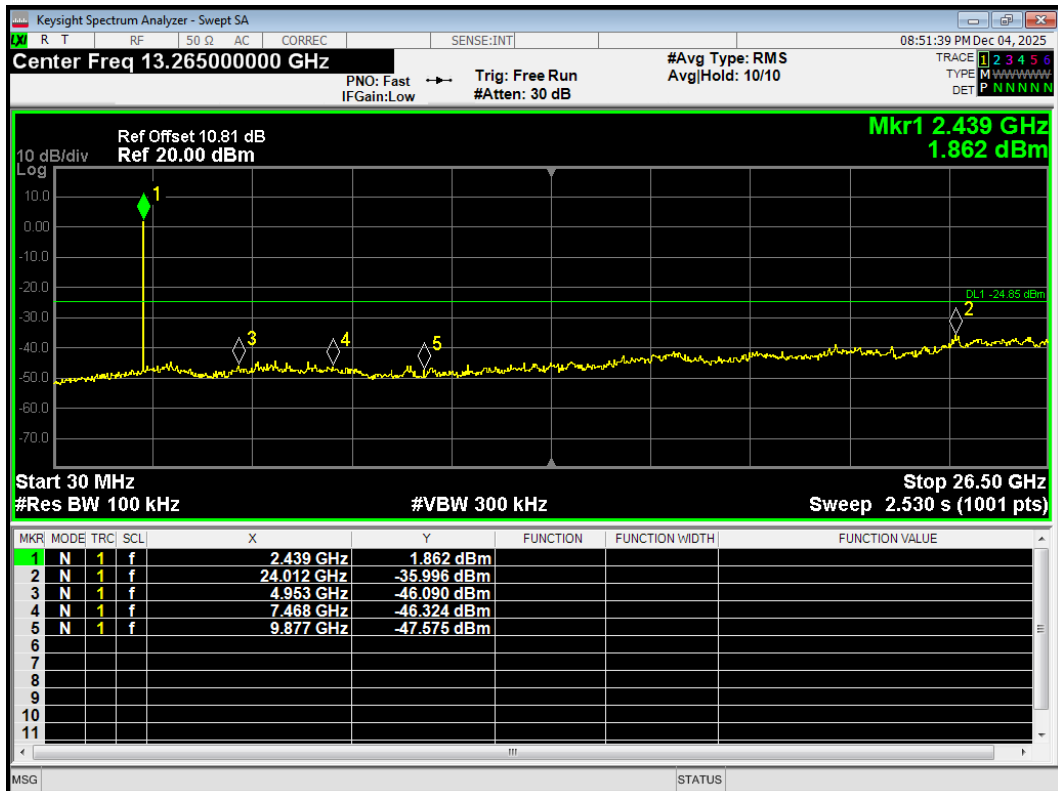
Tx. Spurious BLE (2M) 2402MHz Emission



Tx. Spurious BLE (2M) 2440MHz Ref



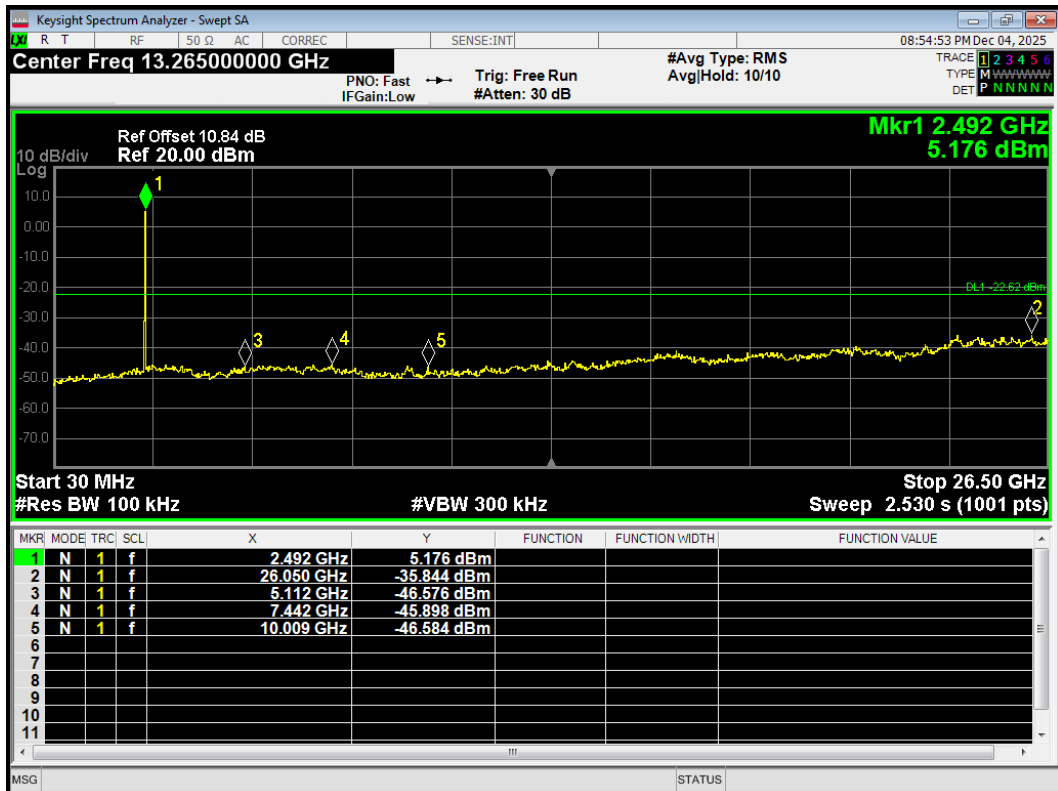
Tx. Spurious BLE (2M) 2440MHz Emission



Tx. Spurious BLE (2M) 2480MHz Ref



Tx. Spurious BLE (2M) 2480MHz Emission



6.6. Unwanted Emission

The detailed test data see *EFTA25110146-IE-10-R3-ANNEX A* Test Result.

6.7. Conducted Emission

The detailed test data see *EFTA25110146-IE-10-R3-ANNEX A* Test Result.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2025-05-06	2026-05-05
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2025-05-06	2026-05-05
Spectrum Analyzer	Agilent	N9010A	MY50210259	2025-11-24	2026-11-23
Test software	MW	MTS8310	2.0.0.0	-	-
Attenuator	HASCO	HA18A-10	0003	-	-
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	2025-05-06	2026-05-05
Horn Antenna	R&S	BBHA 9170	101301	2023-09-16	2026-09-15
Amplifier	MicroWave	SCU40F1	100649	2025-12-01	2026-11-30
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2025-11-24	2026-11-23
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	ELEKTRA	5.02.1	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15C Test Setup*.

***** END OF REPORT *****