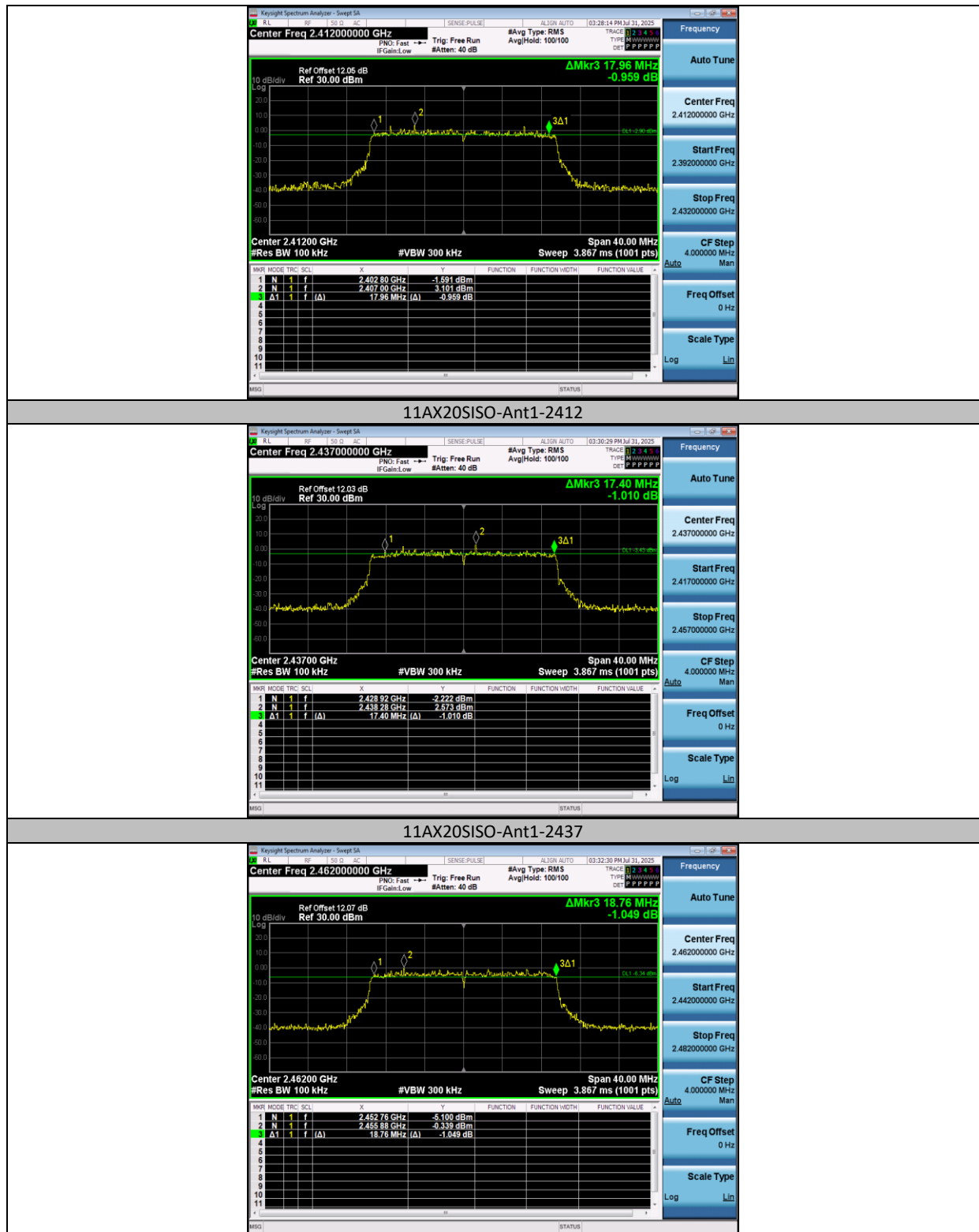




Applicant: EcoFlow Inc.

Date of Test: 31 July 2025

Worst Case Model: EF-AC-001

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 + Cor.1-2023 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

Limit: The Power Density does not exceed 8dBm/3 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Density with RBW 30kHz
2412	-6.73
2437	-4.62
2462	-4.98

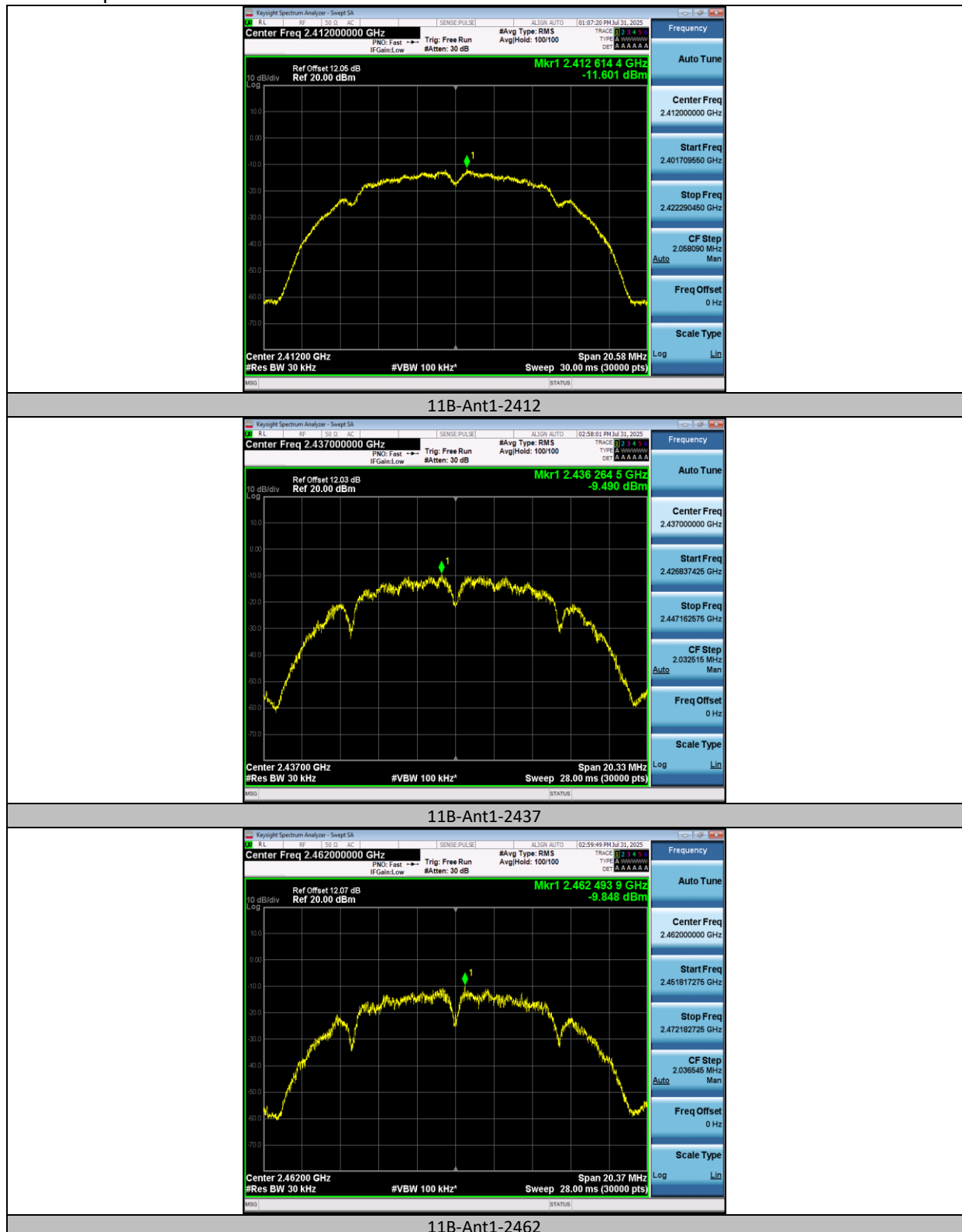
IEEE 802.11g (BPSK, 6Mbps)	
Frequency (MHz)	Power Density with RBW 30kHz
2412	-8.83
2437	-8.08
2462	-9.30

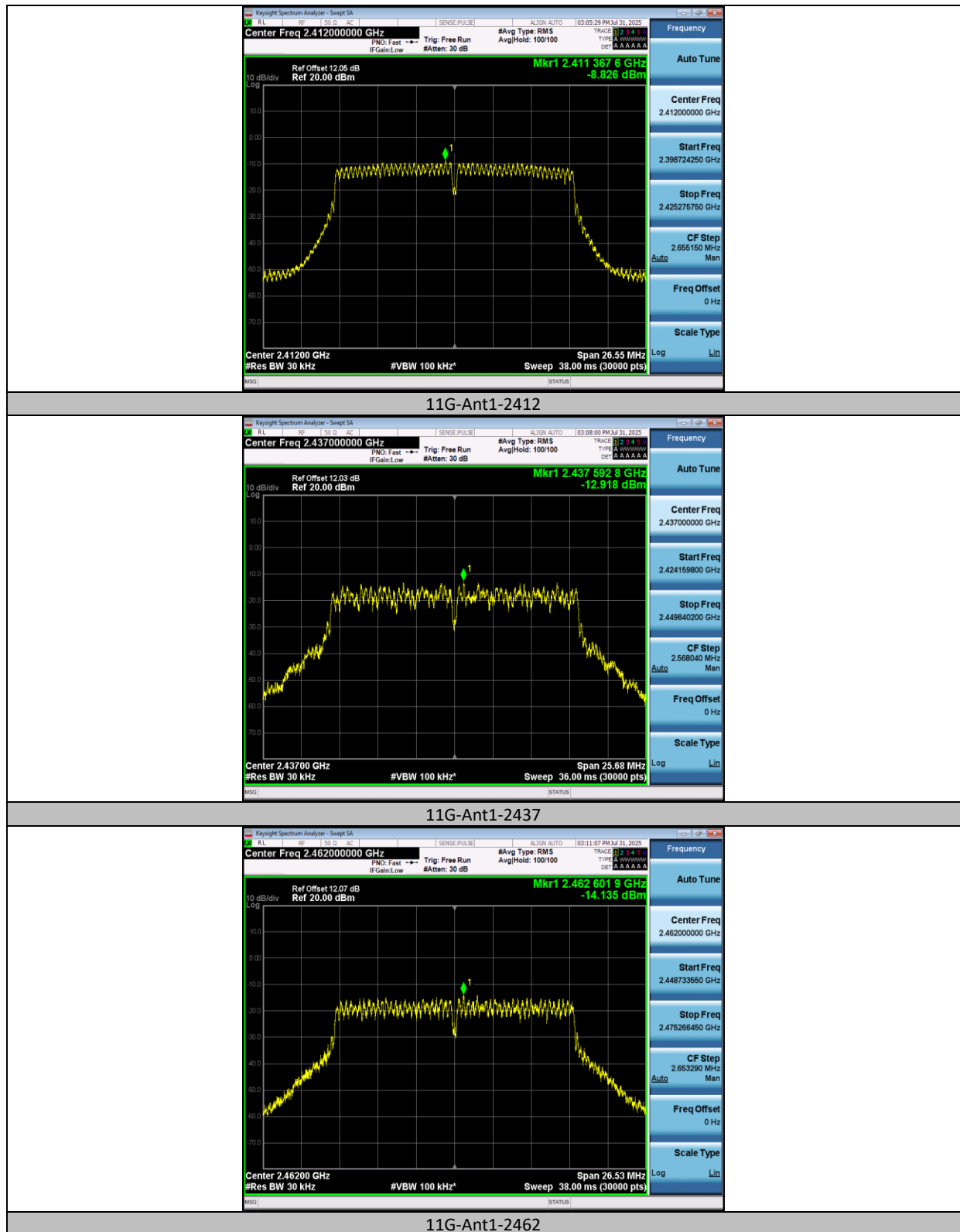
IEEE 802.11n-HT20 (BPSK, 6.5Mbps)	
Frequency (MHz)	Power Density with RBW 30kHz
2412	-7.05
2437	-8.51
2462	-9.68

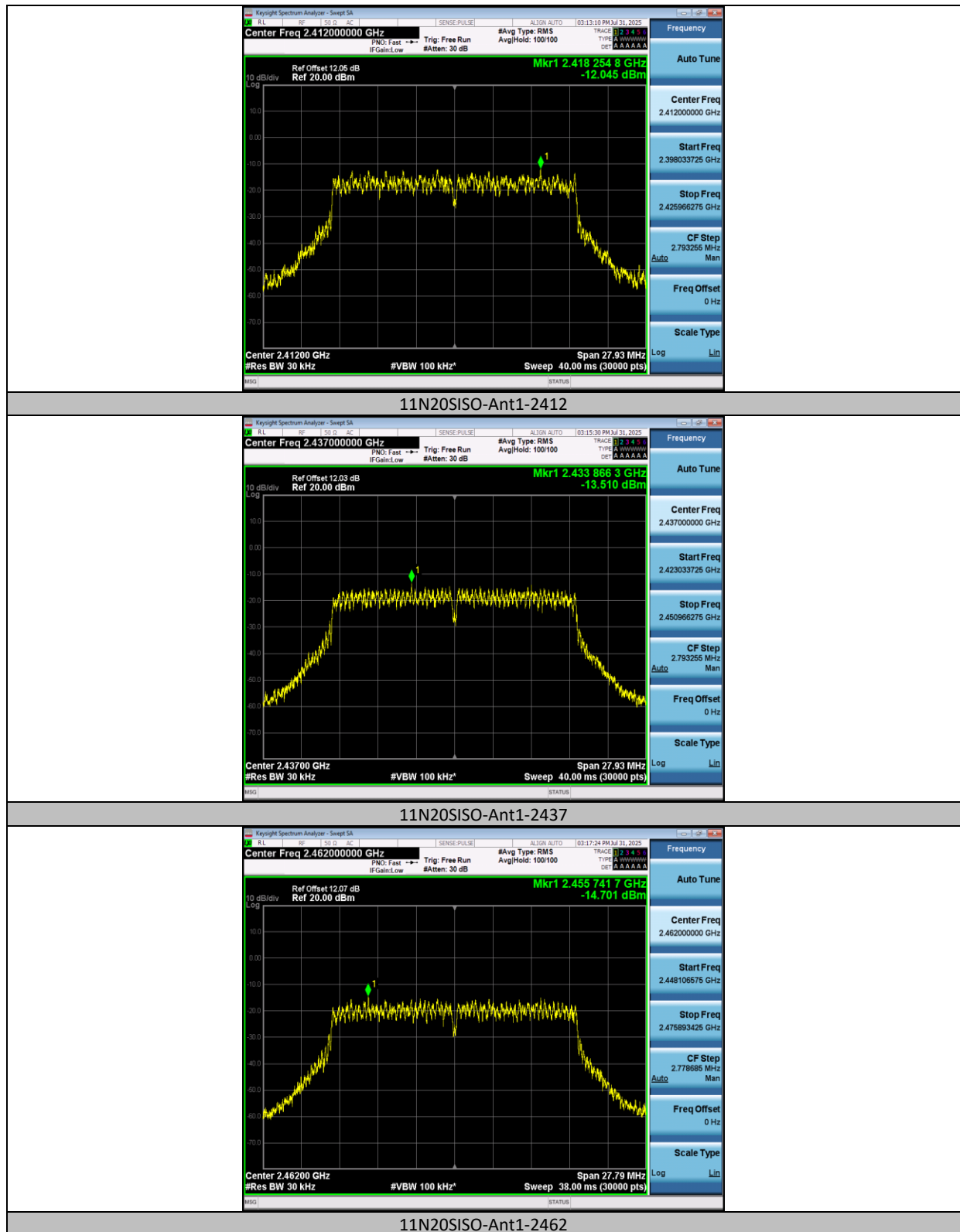
IEEE 802.11n-HT40 (BPSK, 13.5Mbps)	
Frequency (MHz)	Power Density with RBW 30kHz
2422	-10.69
2437	-12.45
2452	-12.83

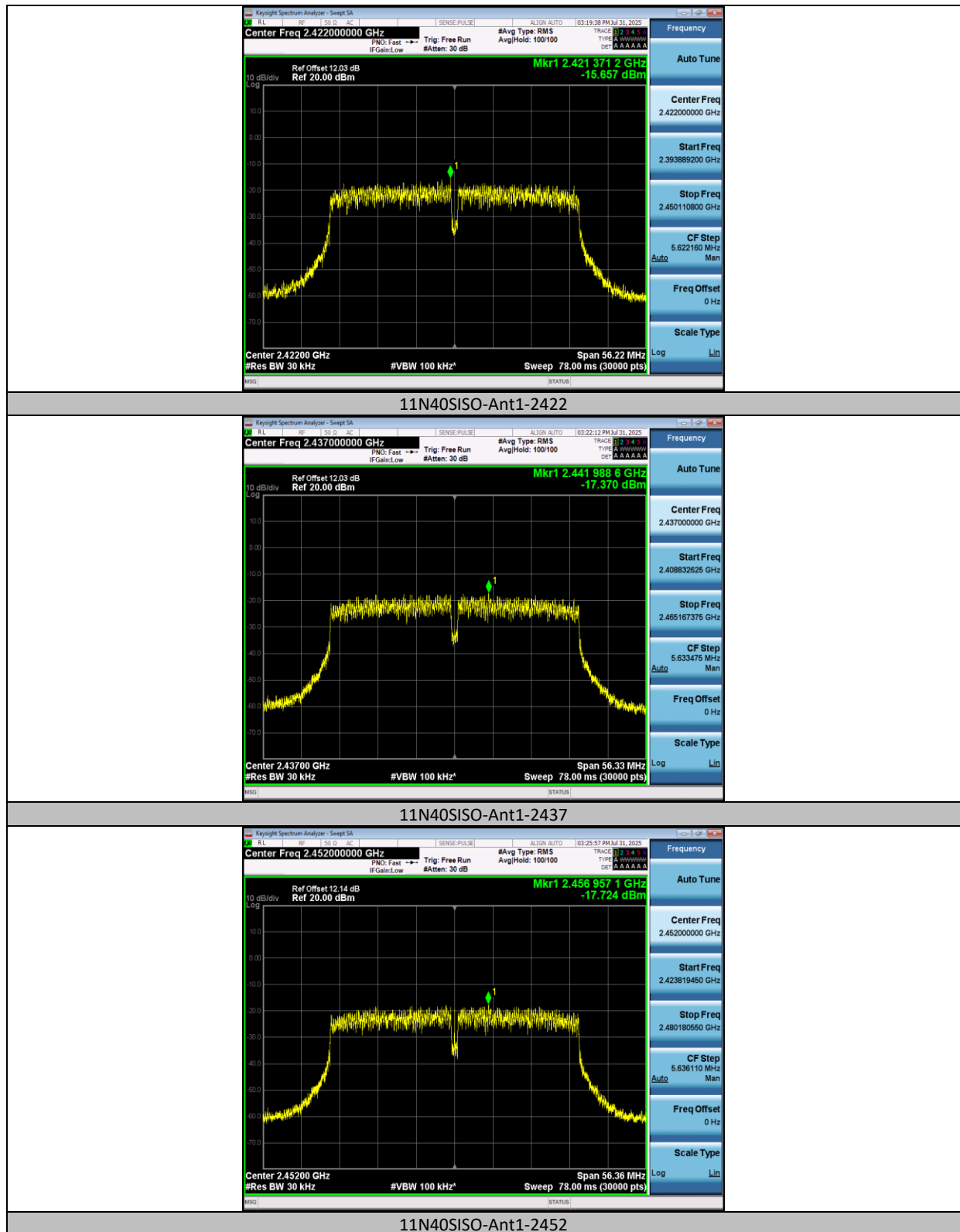
IEEE 802.11ax-HE20(BPSK, 8Mbps)	
Frequency (MHz)	Power Density with RBW 30kHz
2412	-9.54
2437	-10.48
2462	-11.44

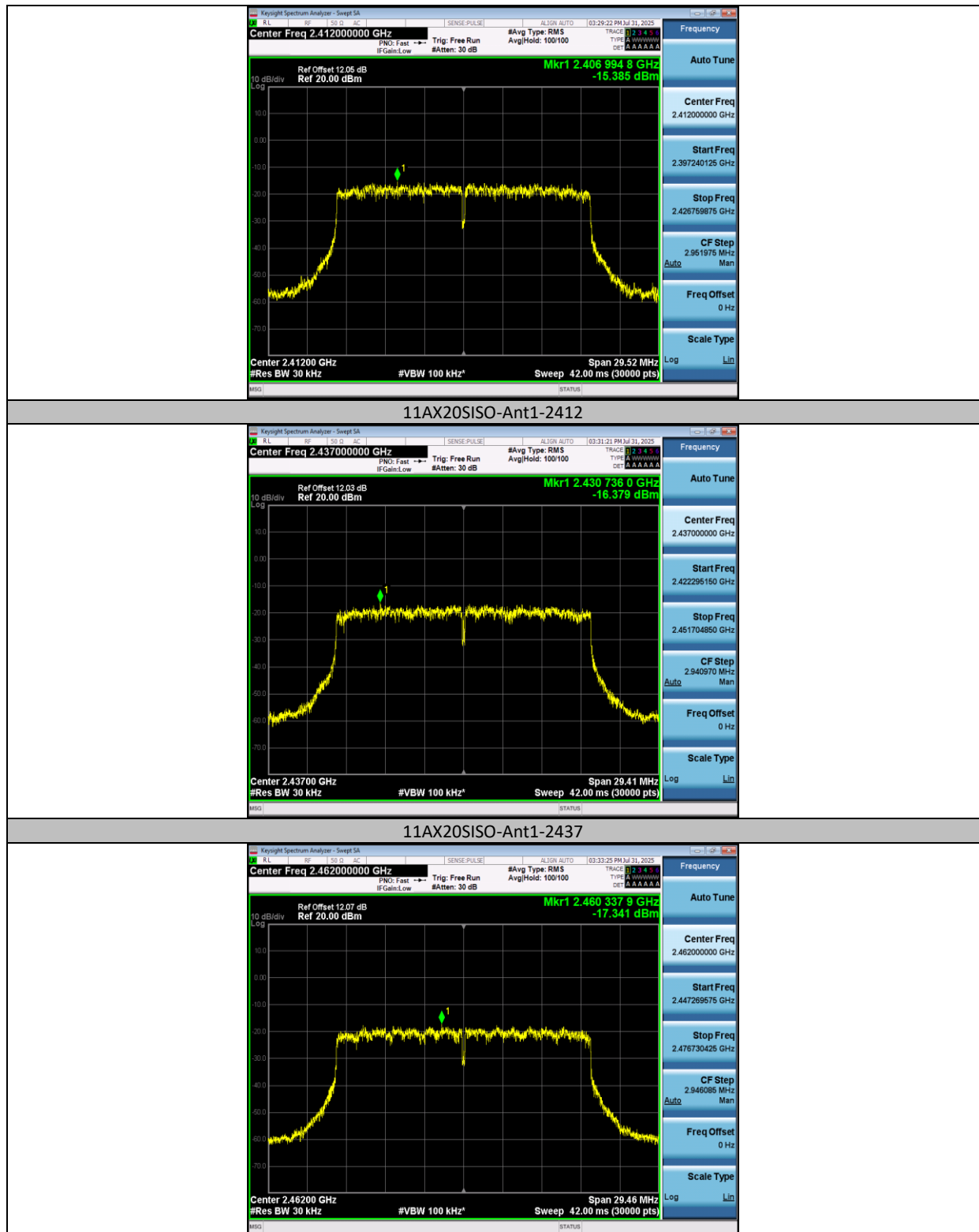
The test plots are attached as below.











Applicant: EcoFlow Inc.

Date of Test: 31 July 2025

Worst Case Model: EF-AC-001

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20/802.11ax-HE20 and 13.5Mbps for 802.11n-HT40.

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 30dB below the highest level of the desired power in the passband.

Reference level measurement:

Test Mode	Freq(MHz)	Max.Point[MHz]	Result[dBm]
802.11b	2412	2412.49	0.97
802.11b	2437	2436.51	7.22
802.11b	2462	2463.48	4.52
802.11g	2412	2413.25	3.98
802.11g	2437	2433.26	2.05
802.11g	2462	2463.27	2.54
802.11n-HT20	2412	2418.27	3.63
802.11n-HT20	2437	2438.28	3.06
802.11n-HT20	2462	2463.26	1.80
802.11n-HT40	2422	2426.99	-0.38
802.11n-HT40	2437	2434.54	-0.62
802.11n-HT40	2452	2443.25	-1.50
802.11ax-HE20	2412	2406.99	3.80
802.11ax-HE20	2437	2439.51	2.19
802.11ax-HE20	2462	2468.25	0.54

Applicant: EcoFlow Inc.

Date of Test: 31 July 2025

Worst Case Model: EF-AC-001

Band edge measurements:

Test Mode	Channel	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Low	2412	0.97	-46.57	≤-29.03	PASS
802.11b	High	2462	4.52	-44.16	≤-25.48	PASS
802.11g	Low	2412	3.98	-33.91	≤-26.02	PASS
802.11g	High	2462	2.54	-40.86	≤-27.46	PASS
802.11n-HT20	Low	2412	3.63	-31.95	≤-26.37	PASS
802.11n-HT20	High	2462	1.80	-42.27	≤-28.2	PASS
802.11n-HT40	Low	2422	-0.38	-34.95	≤-30.38	PASS
802.11n-HT40	High	2452	-1.50	-43.11	≤-31.5	PASS
802.11ax-HE20	Low	2412	3.80	-33.77	≤-26.2	PASS
802.11ax-HE20	High	2462	0.54	-42.45	≤-29.46	PASS

Applicant: EcoFlow Inc.

Date of Test: 28 August 2025

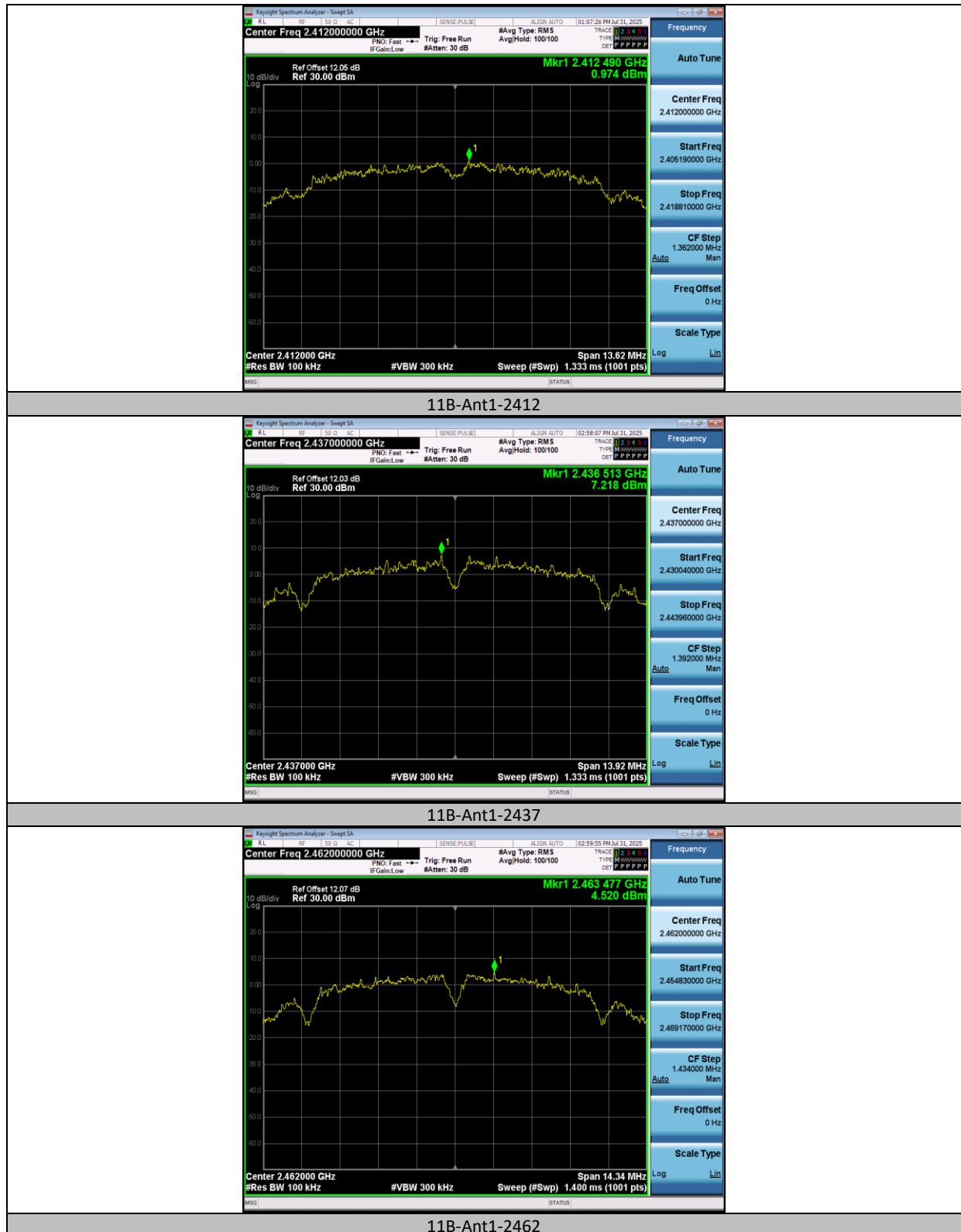
Worst Case Model: EF-AC-001

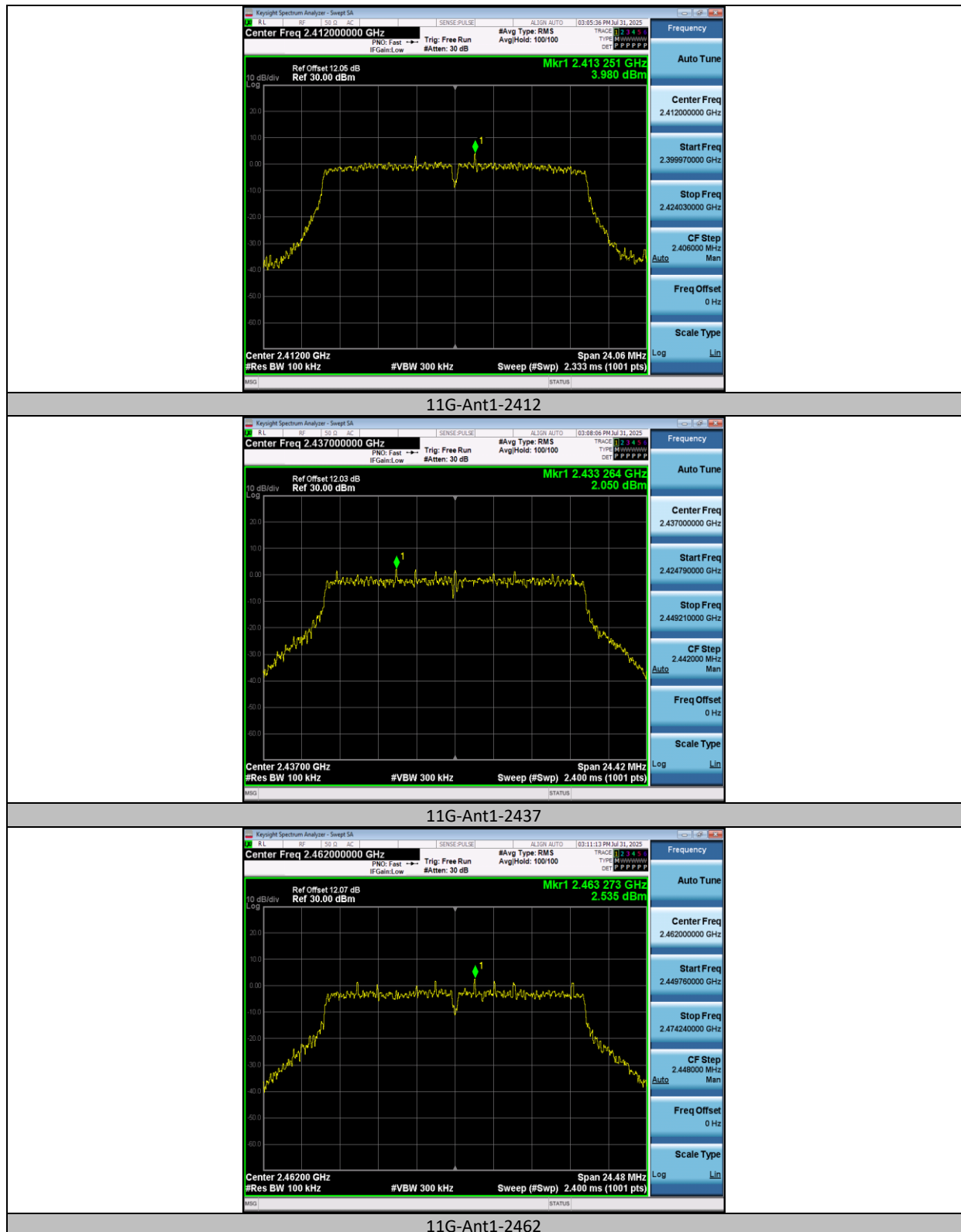
Conducted Spurious Emission:

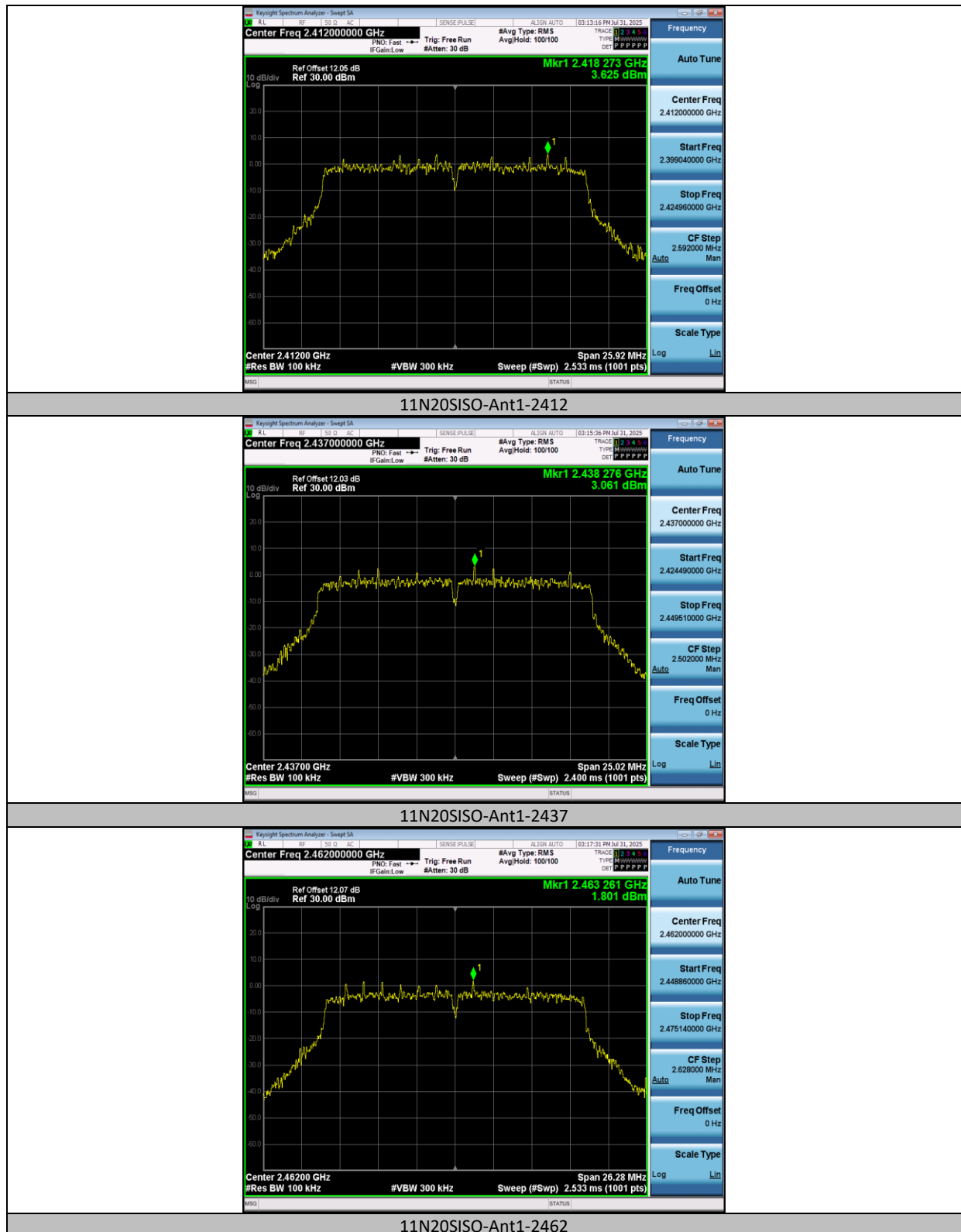
Test Mode	Frequency[MHz]	FreqRange [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	2412	0.009~1000	0.97	-57.66	≤-29.03	PASS
802.11b	2412	1000~26500	0.97	-43.53	≤-29.03	PASS
802.11b	2437	0.009~1000	7.22	-58.17	≤-22.78	PASS
802.11b	2437	1000~26500	7.22	-43.98	≤-22.78	PASS
802.11b	2462	0.009~1000	4.52	-58.08	≤-25.48	PASS
802.11b	2462	1000~26500	4.52	-44.25	≤-25.48	PASS
802.11g	2412	0.009~1000	3.98	-57.24	≤-26.02	PASS
802.11g	2412	1000~26500	3.98	-43.32	≤-26.02	PASS
802.11g	2437	0.009~1000	2.05	-58.01	≤-27.95	PASS
802.11g	2437	1000~26500	2.05	-44.14	≤-27.95	PASS
802.11g	2462	0.009~1000	2.54	-57.99	≤-27.46	PASS
802.11g	2462	1000~26500	2.54	-44.34	≤-27.46	PASS
802.11n-HT20	2412	0.009~1000	3.63	-58.2	≤-26.37	PASS
802.11n-HT20	2412	1000~26500	3.63	-44.52	≤-26.37	PASS
802.11n-HT20	2437	0.009~1000	3.06	-58.07	≤-26.94	PASS
802.11n-HT20	2437	1000~26500	3.06	-43.4	≤-26.94	PASS
802.11n-HT20	2462	0.009~1000	1.80	-57.87	≤-28.2	PASS
802.11n-HT20	2462	1000~26500	1.80	-43.72	≤-28.2	PASS
802.11n-HT40	2422	0.009~1000	-0.38	-57.9	≤-30.38	PASS
802.11n-HT40	2422	1000~26500	-0.38	-44.31	≤-30.38	PASS
802.11n-HT40	2437	0.009~1000	-0.62	-58.33	≤-30.62	PASS
802.11n-HT40	2437	1000~26500	-0.62	-44.3	≤-30.62	PASS
802.11n-HT40	2452	0.009~1000	-1.50	-57.63	≤-31.5	PASS
802.11n-HT40	2452	1000~26500	-1.50	-44.09	≤-31.5	PASS
802.11ax-HE20	2412	0.009~1000	3.80	-58.24	≤-26.2	PASS
802.11ax-HE20	2412	1000~26500	3.80	-44.2	≤-26.2	PASS
802.11ax-HE20	2437	0.009~1000	2.19	-57.97	≤-27.81	PASS
802.11ax-HE20	2437	1000~26500	2.19	-43.77	≤-27.81	PASS
802.11ax-HE20	2462	0.009~1000	0.54	-58.2	≤-29.46	PASS
802.11ax-HE20	2462	1000~26500	0.54	-44.08	≤-29.46	PASS

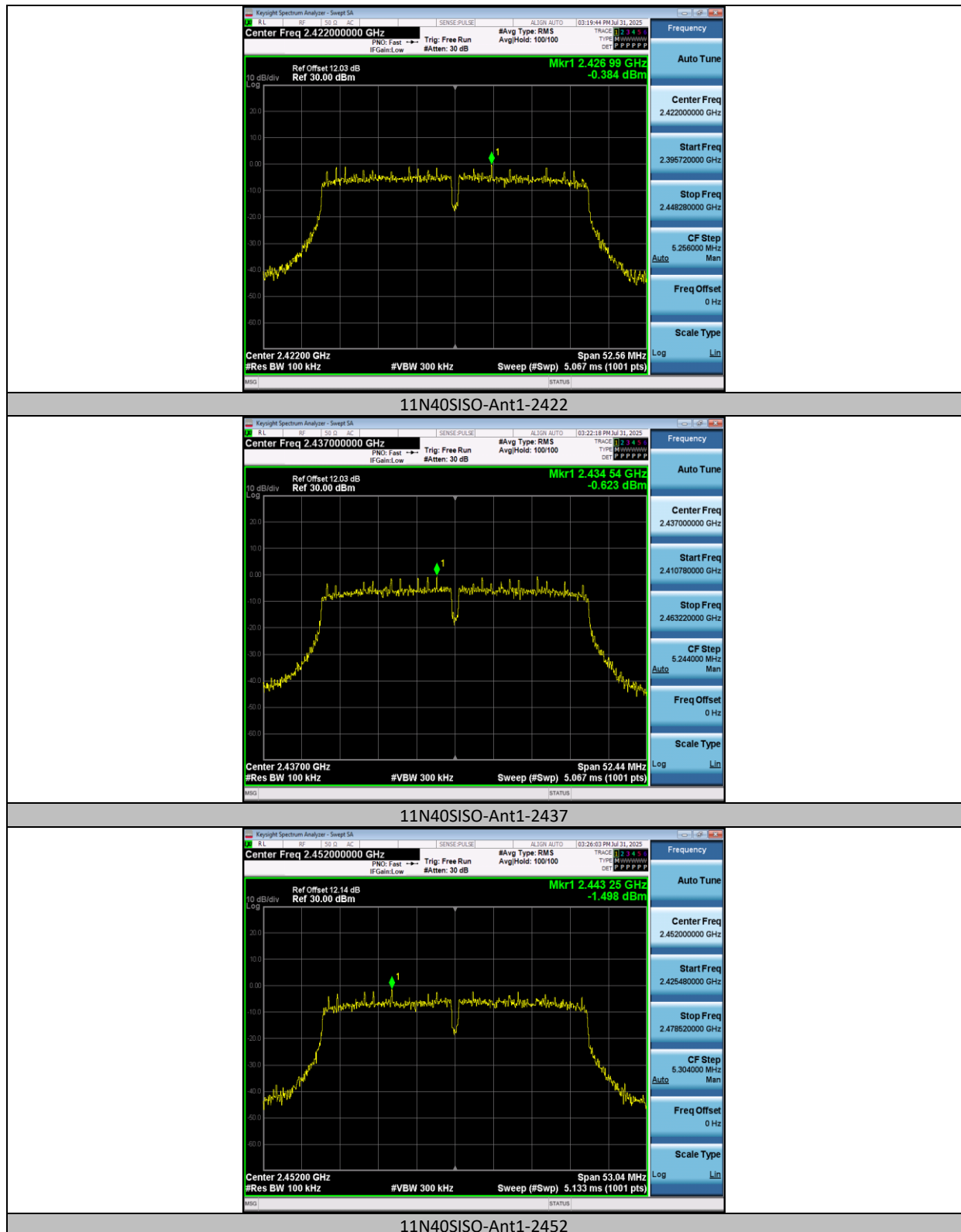
The test plots are attached as below.

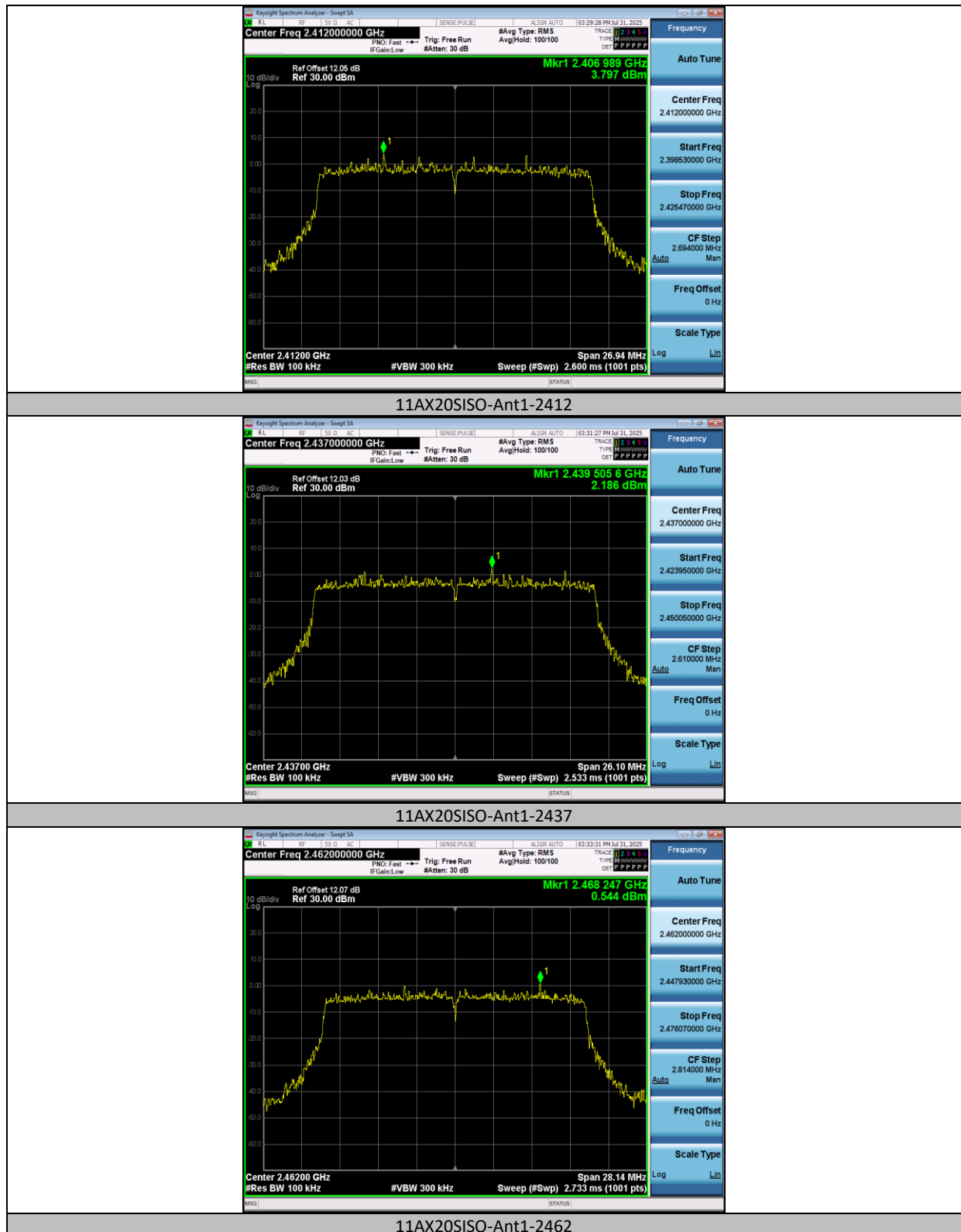
Reference level measurement:





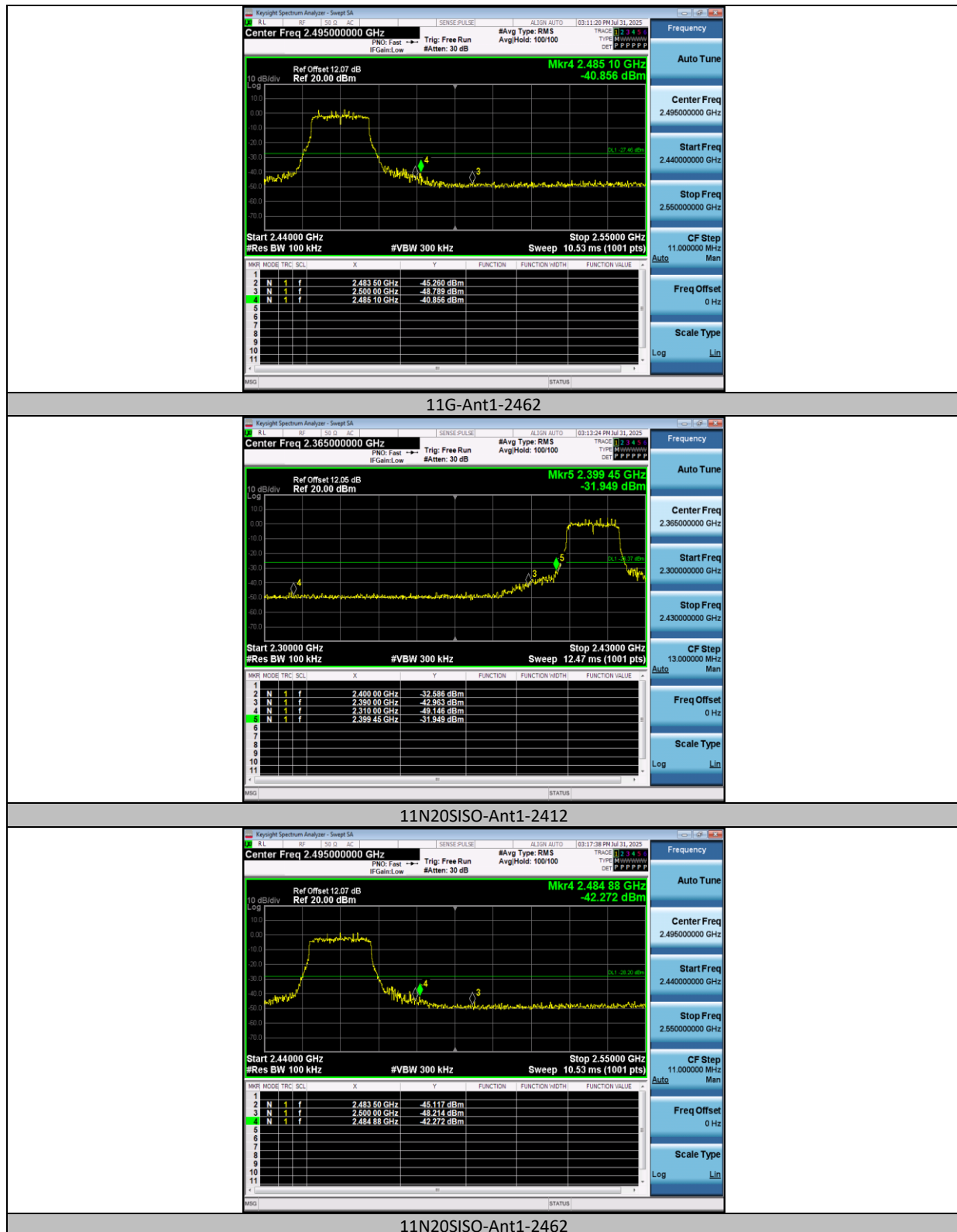


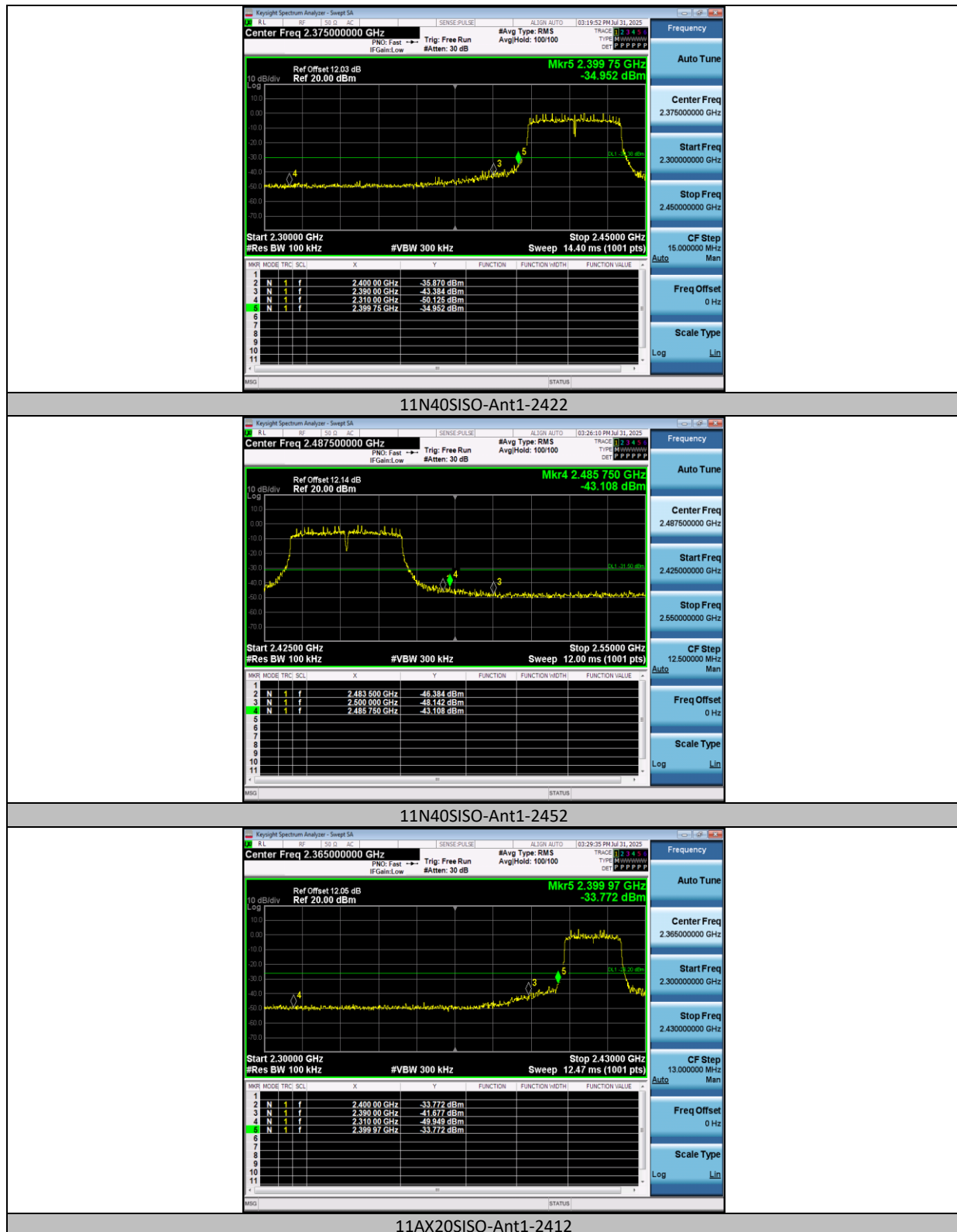


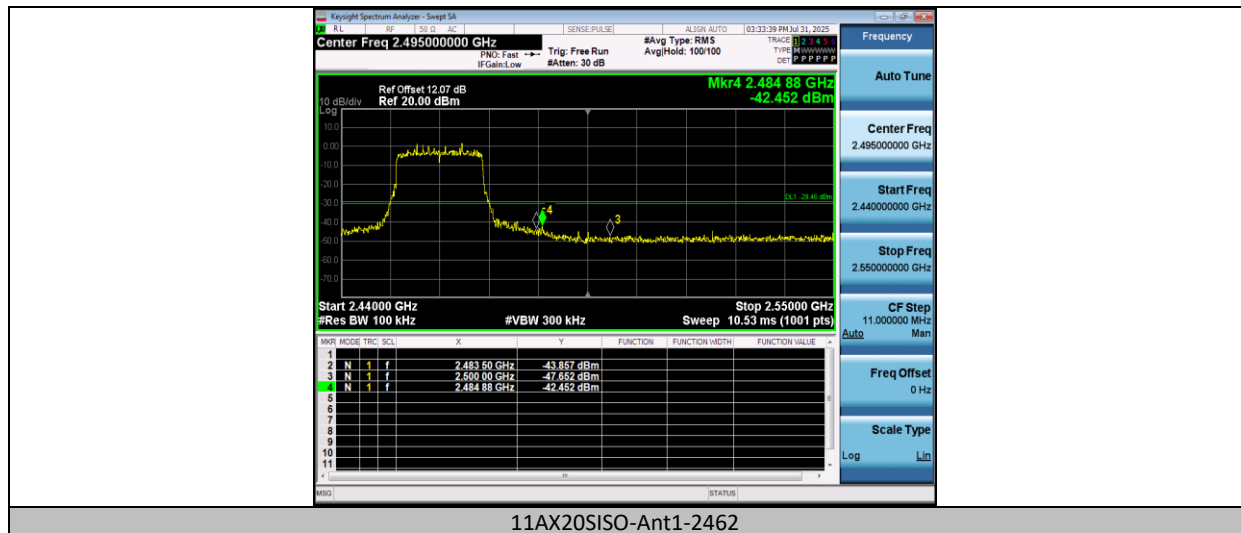


Band edge measurements:









Conducted Spurious Emission:

