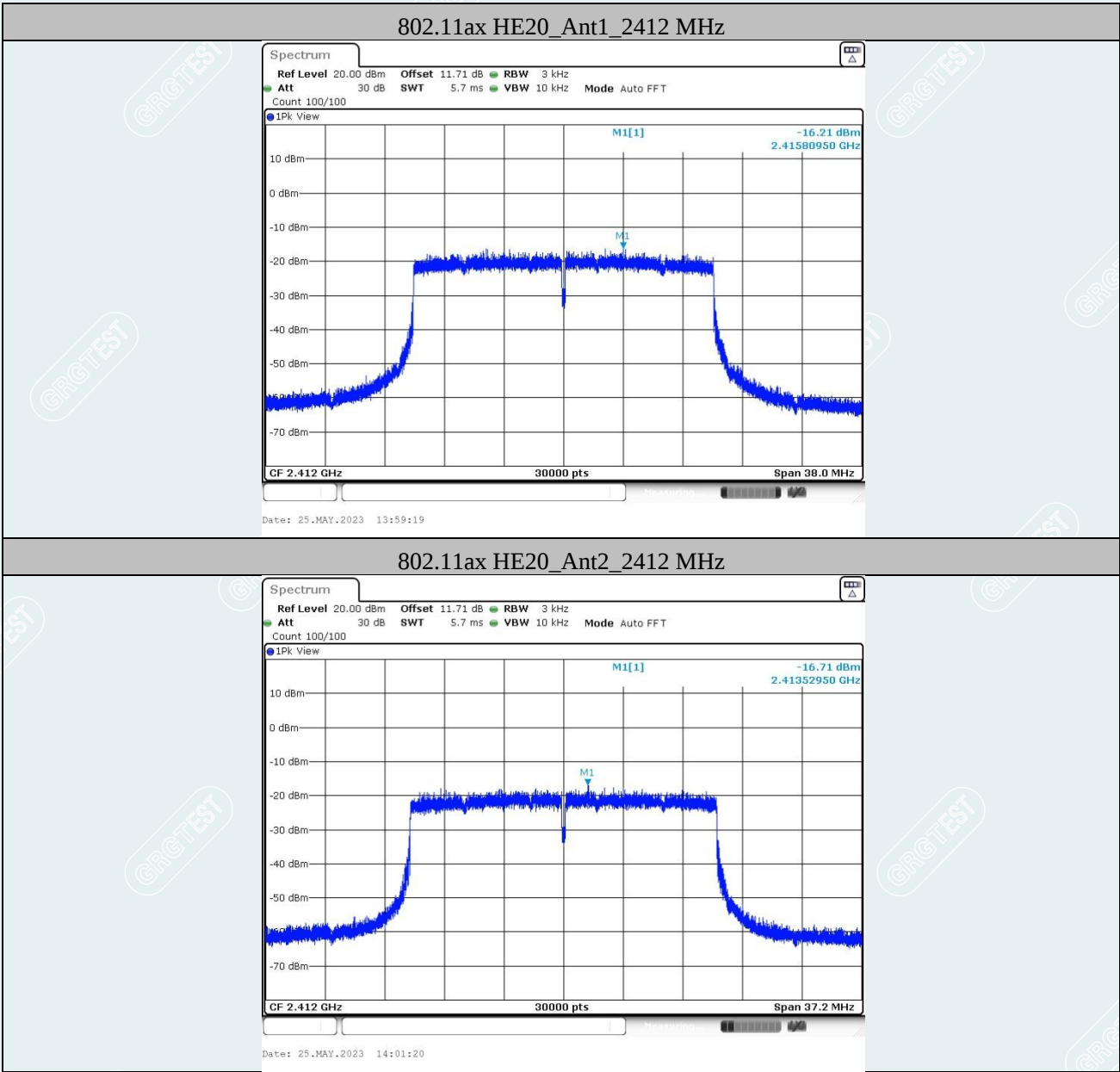
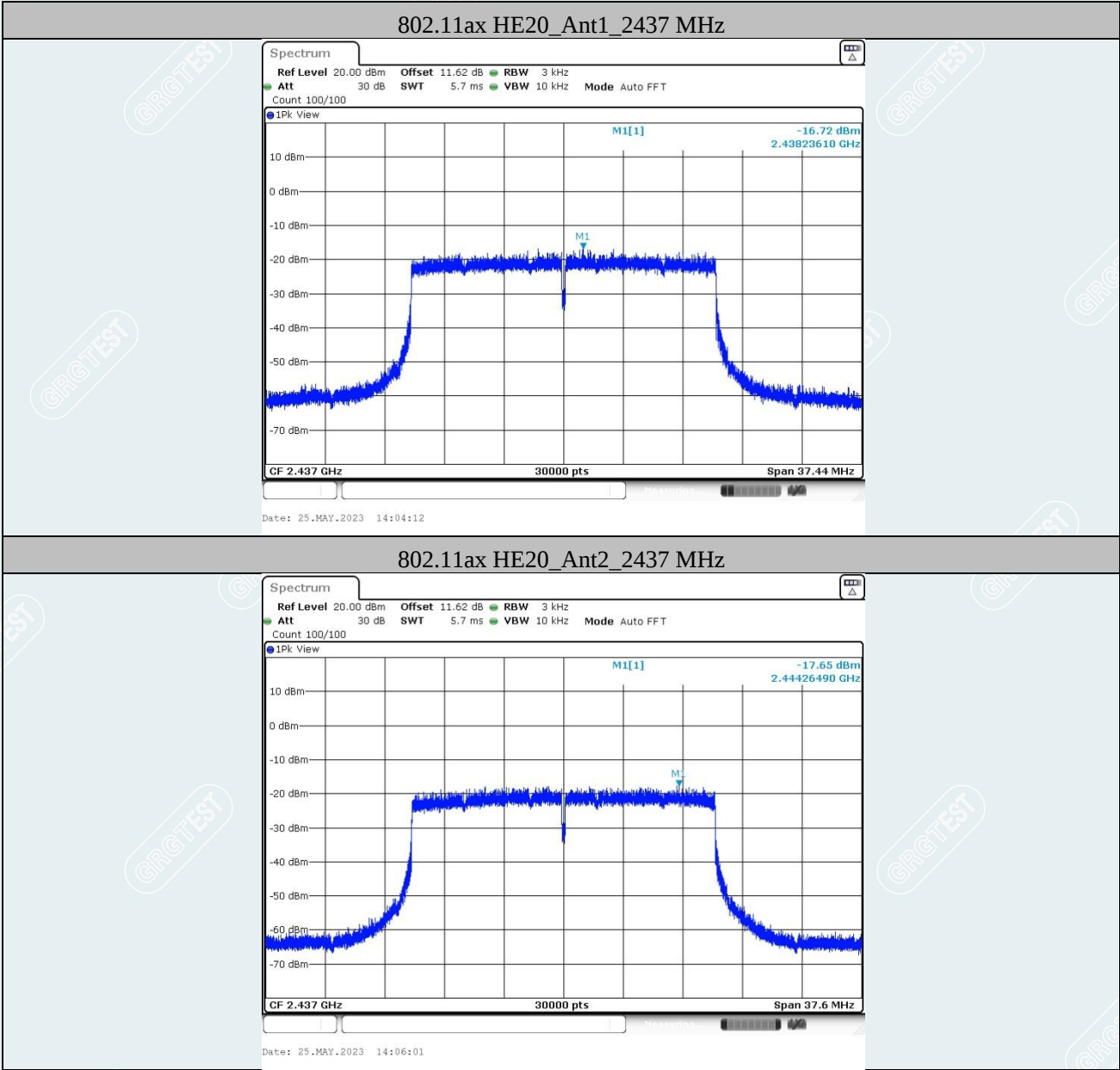
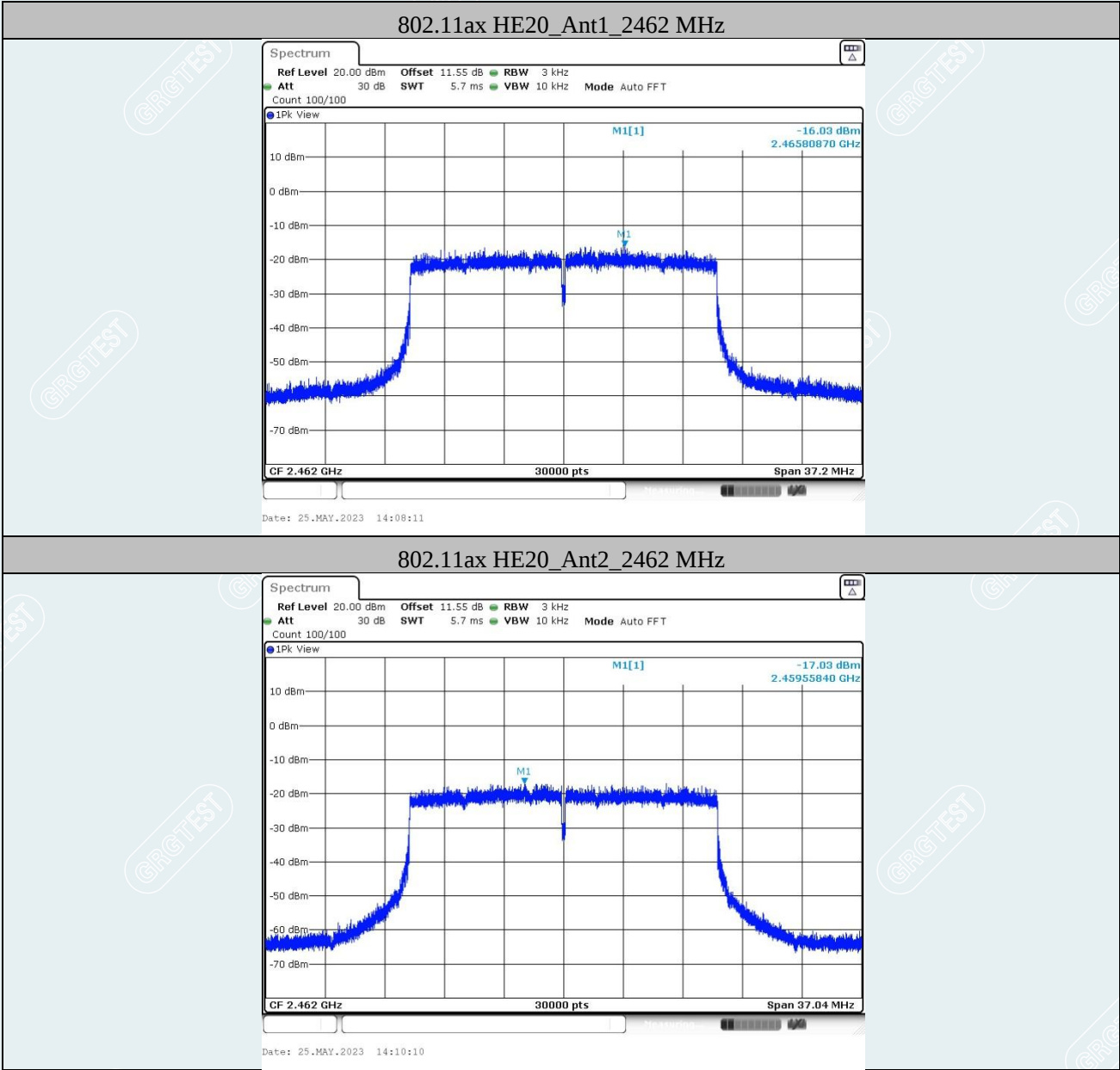
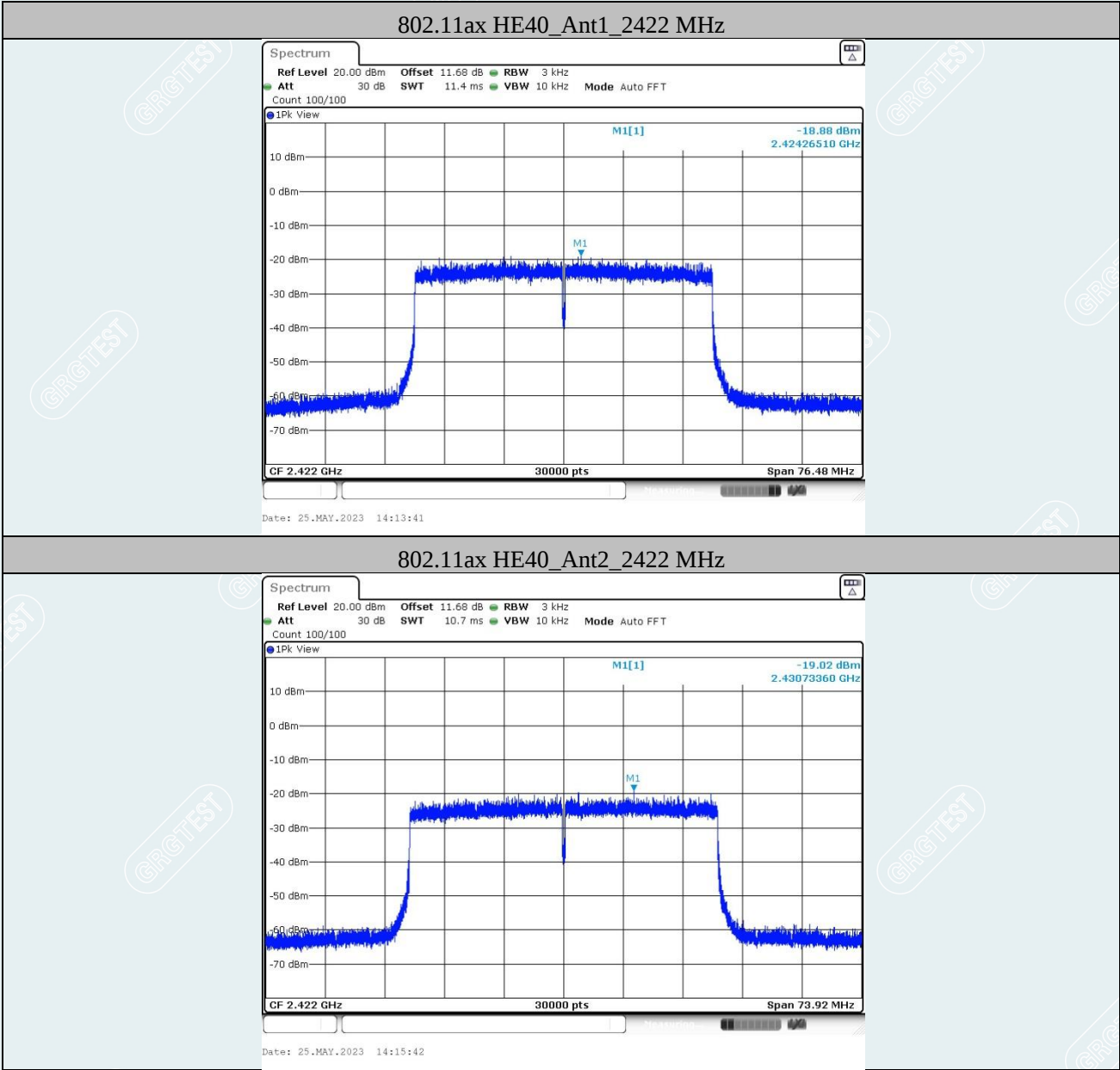
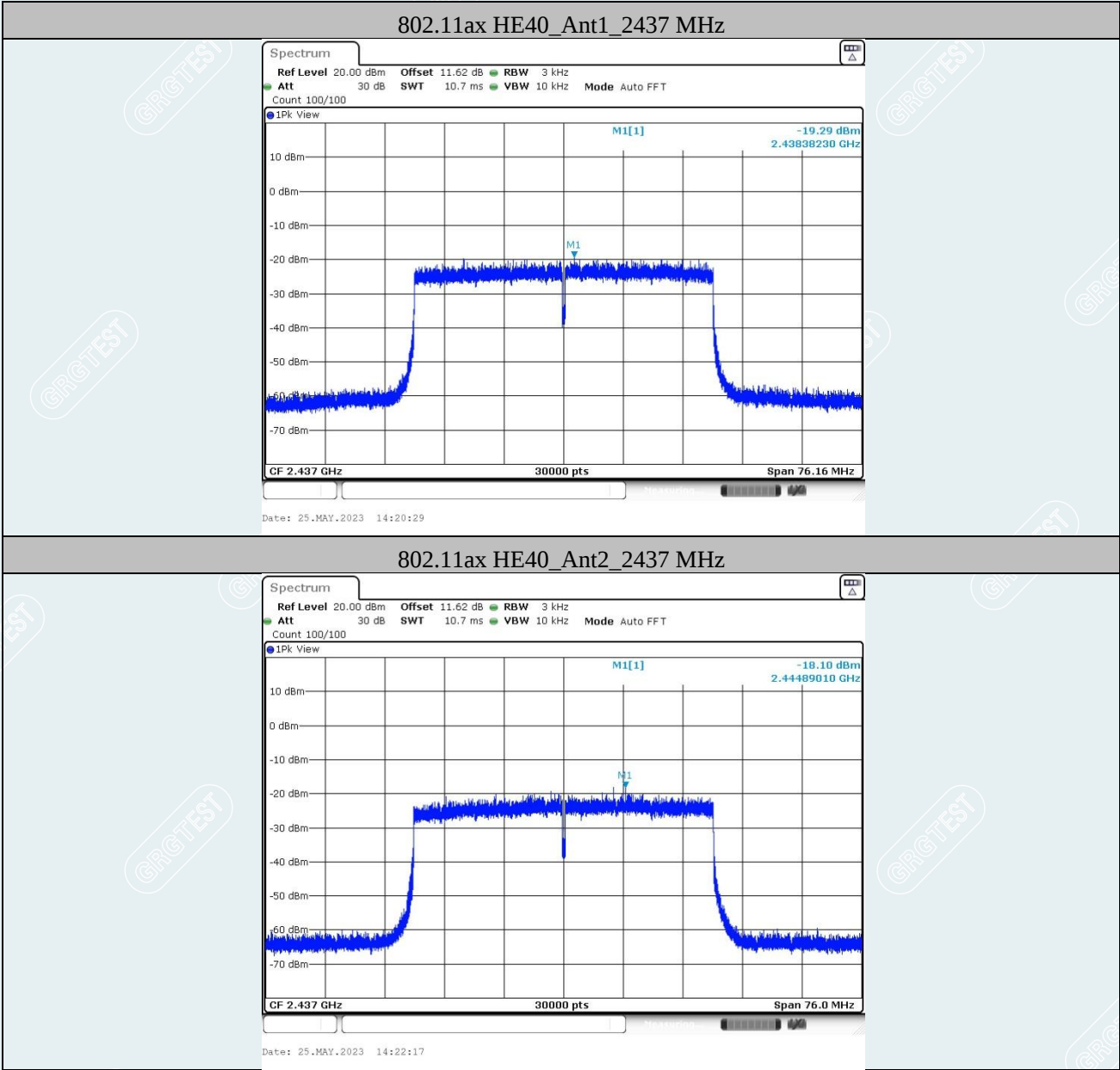


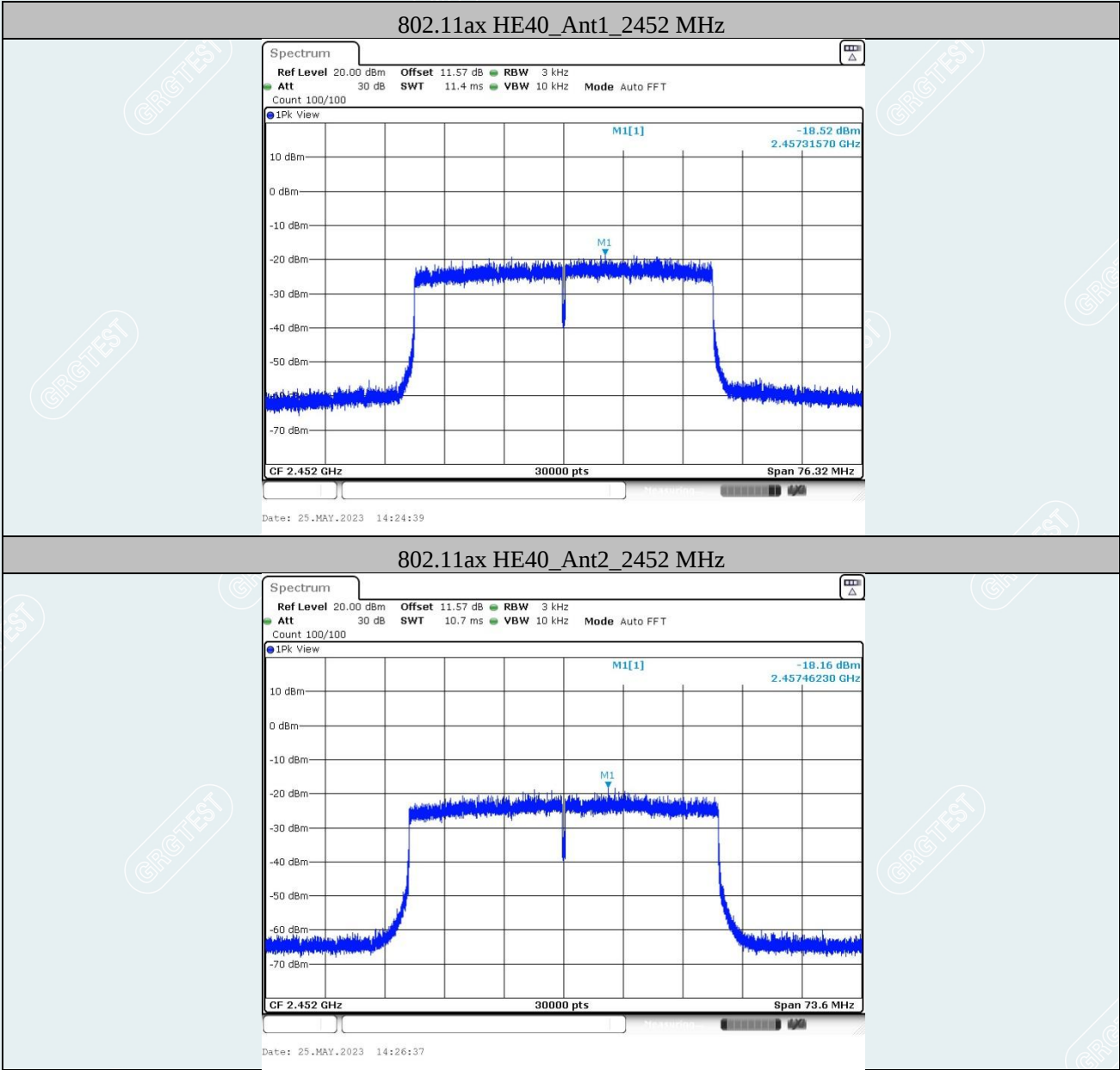












9. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

9.1 LIMITS

In any 100 kHz 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 20 dB below that in the 100 kHz 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 30 dB instead of 20 dB.

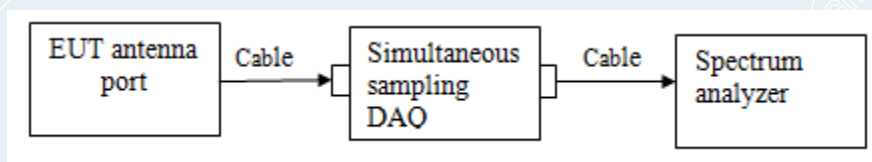
9.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 100 kHz; VBW = 300 kHz, Frequency range = 30 MHz to 26.5 GHz; Sweep = auto; Detector Function = Peak; Trace = Max hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 25.8°C/62%RH/101.0kPa
Tested By:Qing Tingting

Voltage:DC 12V
Date: 2023-05-23~2023-05-25

Band edge

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	3.13	-45.03	≤-16.87	PASS
	Ant2	Low	2412	3.00	-43.38	≤-27.00	PASS
	Ant1	High	2462	3.32	-44.56	≤-16.68	PASS
	Ant2	High	2462	2.92	-44.71	≤-27.08	PASS
802.11g	Ant1	Low	2412	0.45	-32.57	≤-19.55	PASS
	Ant2	Low	2412	0.58	-26.68	≤-19.42	PASS
	Ant1	High	2462	2.13	-41.45	≤-17.87	PASS
	Ant2	High	2462	0.65	-41.79	≤-19.35	PASS
802.11n HT20	Ant1	Low	2412	-1.04	-35.94	≤-21.04	PASS
	Ant2	Low	2412	-2.97	-40.22	≤-22.97	PASS
	Ant1	High	2462	-0.24	-44.57	≤-20.24	PASS
	Ant2	High	2462	-1.56	-44.91	≤-21.56	PASS
802.11n HT40	Ant1	Low	2422	-6.15	-43.09	≤-26.15	PASS
	Ant2	Low	2422	-6.09	-43.13	≤-26.09	PASS
	Ant1	High	2452	-5.20	-40.75	≤-25.20	PASS
	Ant2	High	2452	-4.52	-44.47	≤-24.52	PASS
802.11ax HE20	Ant1	Low	2412	-2.82	-39.13	≤-22.82	PASS
	Ant2	Low	2412	-2.17	-40.35	≤-22.17	PASS
	Ant1	High	2462	-2.85	-43.74	≤-22.85	PASS
	Ant2	High	2462	-1.83	-45.34	≤-21.83	PASS
802.11ax HE40	Ant1	Low	2422	-4.62	-40.29	≤-24.62	PASS
	Ant2	Low	2422	-5.30	-40.50	≤-25.30	PASS
	Ant1	High	2452	-4.49	-40.92	≤-24.49	PASS
	Ant2	High	2452	-6.69	-44.60	≤-26.69	PASS

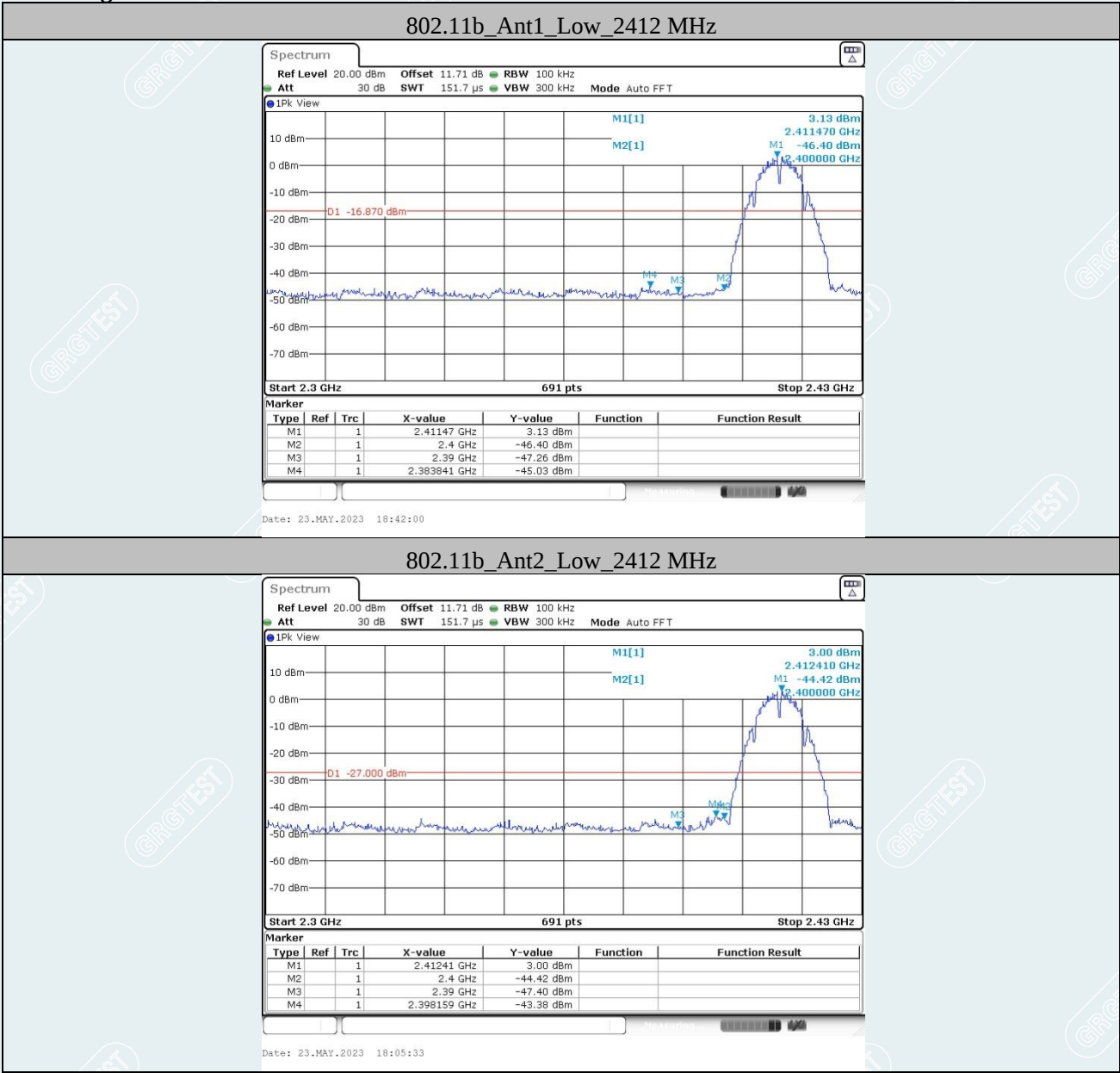
Conducted Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	3.03	3.03	---	PASS
			30~1000	3.03	-54.19	≤-16.97	PASS
			1000~26500	3.03	-40.95	≤-16.97	PASS
	Ant2	2412	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-54.34	≤-15.90	PASS
			1000~26500	4.10	-41.15	≤-15.90	PASS
	Ant1	2437	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-54.99	≤-17.65	PASS
			1000~26500	2.35	-41.50	≤-17.65	PASS
	Ant2	2437	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-55.41	≤-17.82	PASS
			1000~26500	2.18	-41.66	≤-17.82	PASS
	Ant1	2462	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-55.22	≤-16.63	PASS
			1000~26500	3.37	-41.92	≤-16.63	PASS
	Ant2	2462	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-54.83	≤-17.23	PASS
			1000~26500	2.77	-41.69	≤-17.23	PASS
802.11g	Ant1	2412	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-54.74	≤-18.76	PASS
			1000~26500	1.24	-40.69	≤-18.76	PASS
	Ant2	2412	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-54.44	≤-19.58	PASS
			1000~26500	0.42	-41.23	≤-19.58	PASS
	Ant1	2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-55.04	≤-19.32	PASS
			1000~26500	0.68	-40.93	≤-19.32	PASS
	Ant2	2437	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-49.98	≤-18.37	PASS
			1000~26500	1.63	-41.41	≤-18.37	PASS
	Ant1	2462	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-55.39	≤-18.60	PASS
			1000~26500	1.40	-41.64	≤-18.60	PASS
	Ant2	2462	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-55.25	≤-17.90	PASS
			1000~26500	2.10	-41.31	≤-17.90	PASS

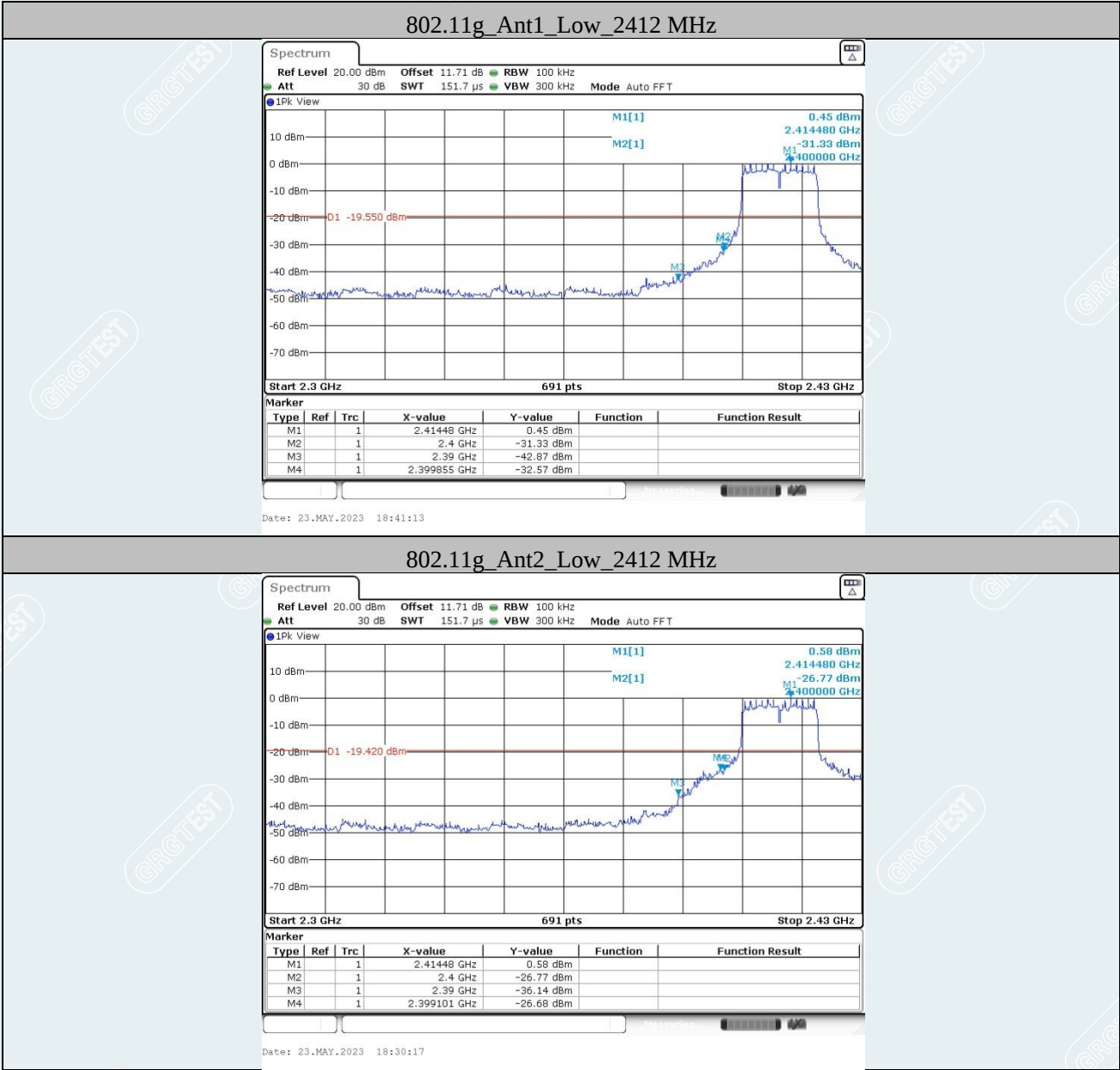
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11n HT20	Ant1	2412	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-55.02	≤ -20.26	PASS
			1000~26500	-0.26	-41.68	≤ -20.26	PASS
	Ant2	2412	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-54.29	≤ -21.53	PASS
			1000~26500	-1.53	-40.94	≤ -21.53	PASS
	Ant1	2437	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-55.15	≤ -21.69	PASS
			1000~26500	-1.69	-41.60	≤ -21.69	PASS
	Ant2	2437	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-55.12	≤ -21.02	PASS
			1000~26500	-1.02	-41.49	≤ -21.02	PASS
	Ant1	2462	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-54.94	≤ -20.76	PASS
			1000~26500	-0.76	-41.16	≤ -20.76	PASS
	Ant2	2462	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-55.14	≤ -21.04	PASS
			1000~26500	-1.04	-40.63	≤ -21.04	PASS
802.11n HT40	Ant1	2422	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-54.60	≤ -24.13	PASS
			1000~26500	-4.13	-41.42	≤ -24.13	PASS
	Ant2	2422	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-55.21	≤ -25.20	PASS
			1000~26500	-5.20	-41.65	≤ -25.20	PASS
	Ant1	2437	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-55.17	≤ -24.63	PASS
			1000~26500	-4.63	-41.57	≤ -24.63	PASS
	Ant2	2437	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-53.82	≤ -25.30	PASS
			1000~26500	-5.30	-41.54	≤ -25.30	PASS
	Ant1	2452	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-55.04	≤ -24.02	PASS
			1000~26500	-4.02	-41.12	≤ -24.02	PASS
	Ant2	2452	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-54.79	≤ -24.43	PASS
			1000~26500	-4.43	-41.4	≤ -24.43	PASS

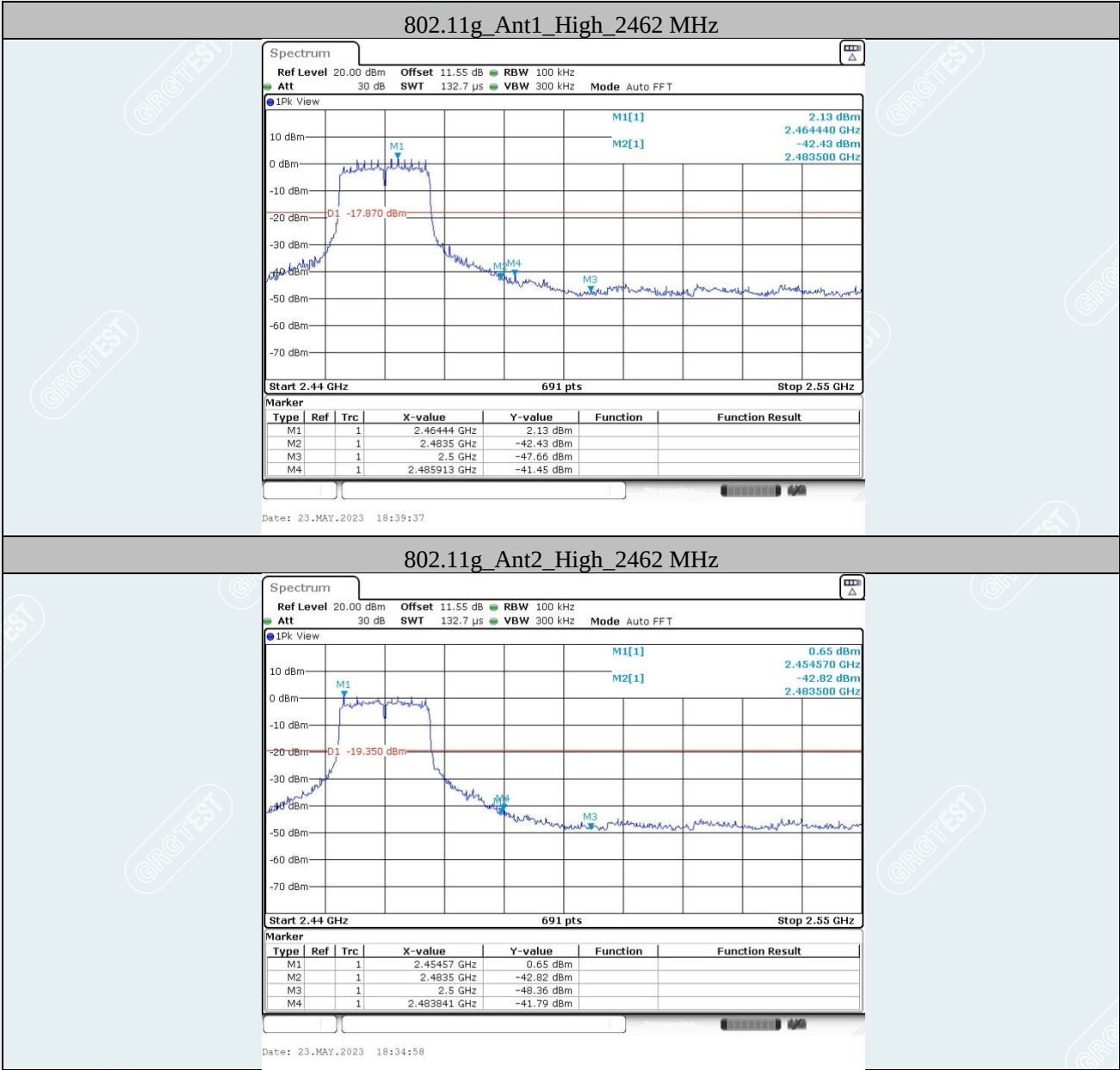
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11ax HE20	Ant1	2412	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-54.84	≤ -21.21	PASS
			1000~26500	-1.21	-41.05	≤ -21.21	PASS
	Ant2	2412	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-55.29	≤ -22.34	PASS
			1000~26500	-2.34	-41.38	≤ -22.34	PASS
	Ant1	2437	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-55.01	≤ -22.15	PASS
			1000~26500	-2.15	-42.17	≤ -22.15	PASS
	Ant2	2437	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-54.37	≤ -21.70	PASS
			1000~26500	-1.70	-41.03	≤ -21.70	PASS
	Ant1	2462	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-55.37	≤ -21.79	PASS
			1000~26500	-1.79	-41.75	≤ -21.79	PASS
	Ant2	2462	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-55.69	≤ -21.64	PASS
			1000~26500	-1.64	-42.00	≤ -21.64	PASS
802.11ax HE40	Ant1	2422	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-54.96	≤ -24.64	PASS
			1000~26500	-4.64	-40.84	≤ -24.64	PASS
	Ant2	2422	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-55.50	≤ -25.24	PASS
			1000~26500	-5.24	-41.63	≤ -25.24	PASS
	Ant1	2437	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-55.06	≤ -25.64	PASS
			1000~26500	-5.64	-41.01	≤ -25.64	PASS
	Ant2	2437	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-54.14	≤ -25.03	PASS
			1000~26500	-5.03	-41.31	≤ -25.03	PASS
	Ant1	2452	Reference	-6.35	-6.35	---	PASS
			30~1000	-6.35	-55.27	≤ -26.35	PASS
			1000~26500	-6.35	-41.38	≤ -26.35	PASS
	Ant2	2452	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-55.06	≤ -24.64	PASS
			1000~26500	-4.64	-41.29	≤ -24.64	PASS

Band edge





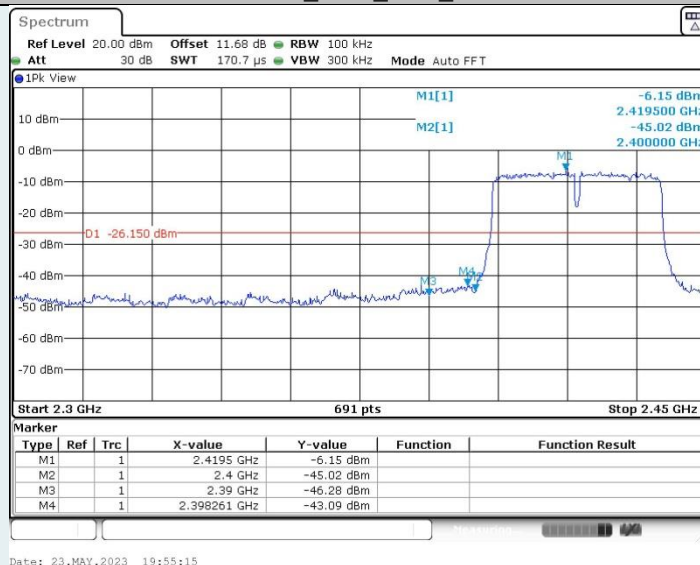




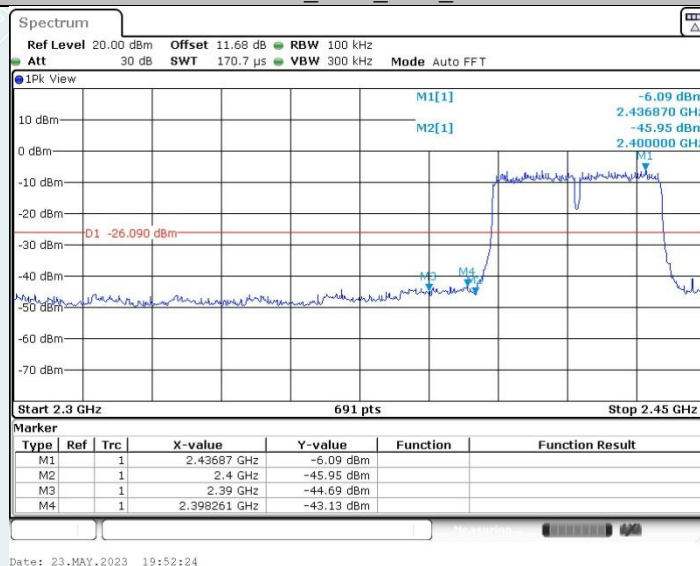




802.11n HT40_Ant1_Low_2422 MHz



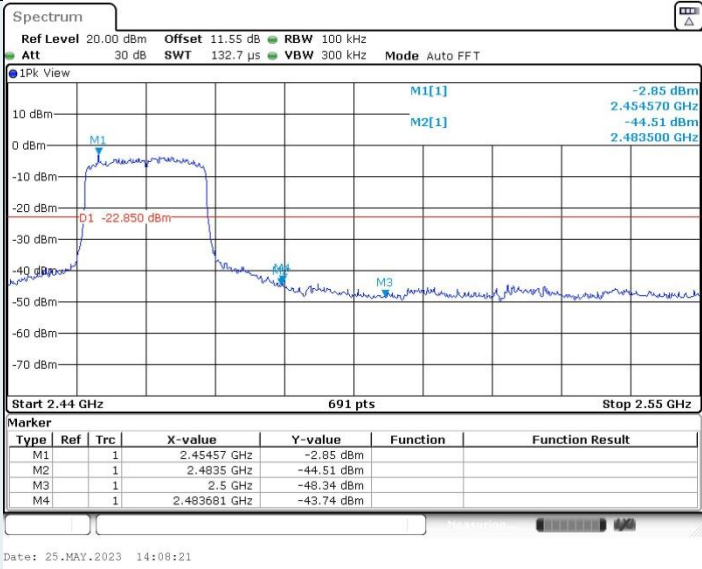
802.11n HT40 Ant2 Low 2422 MHz



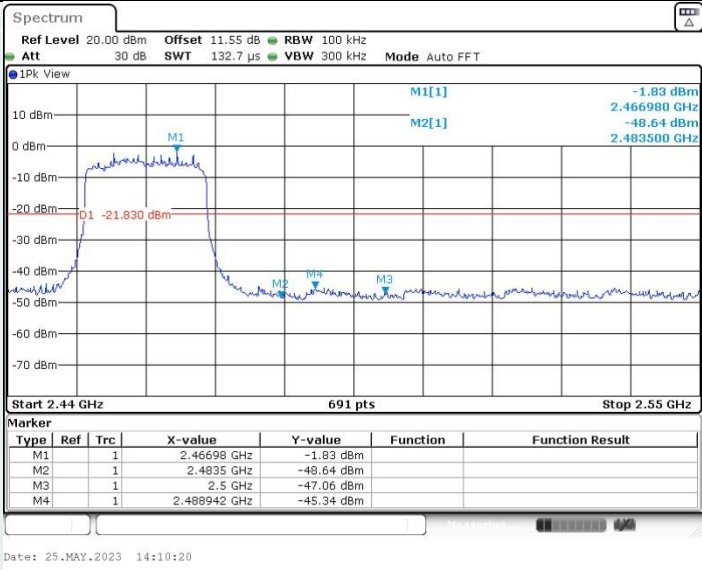


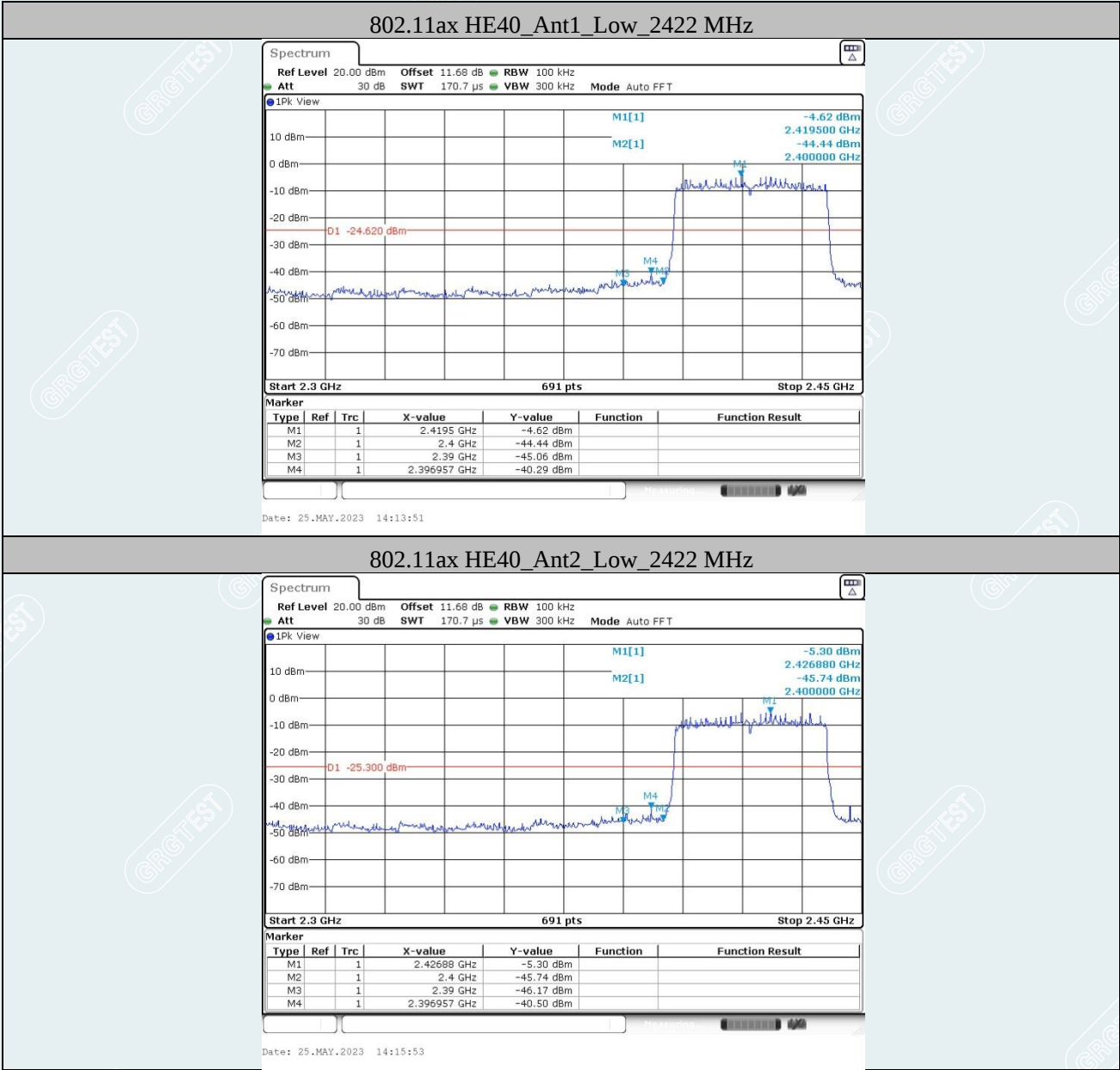


802.11ax HE20_Ant1_High_2462 MHz



802.11ax HE20_Ant2_High_2462 MHz







Conducted Spurious Emission

