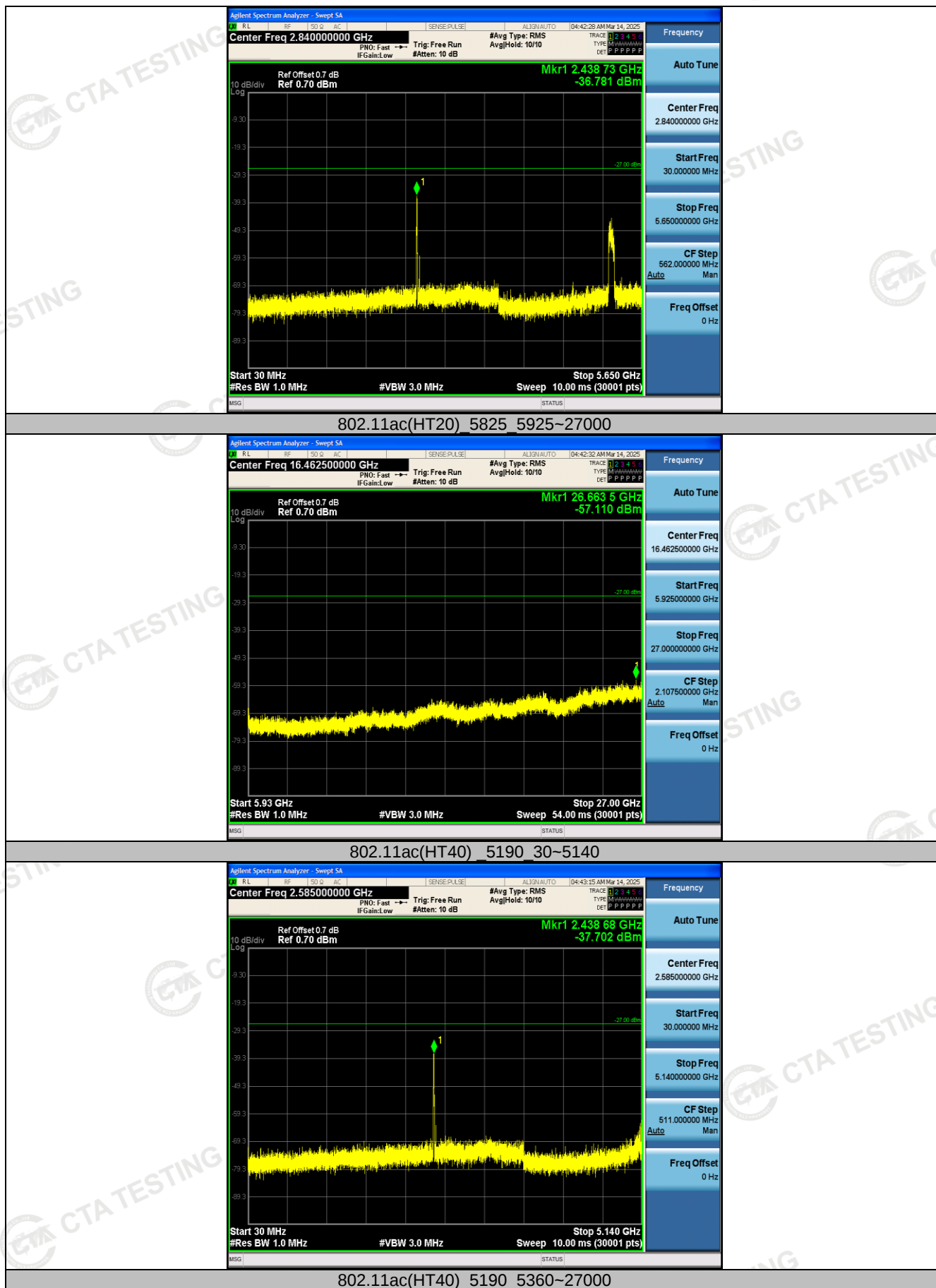
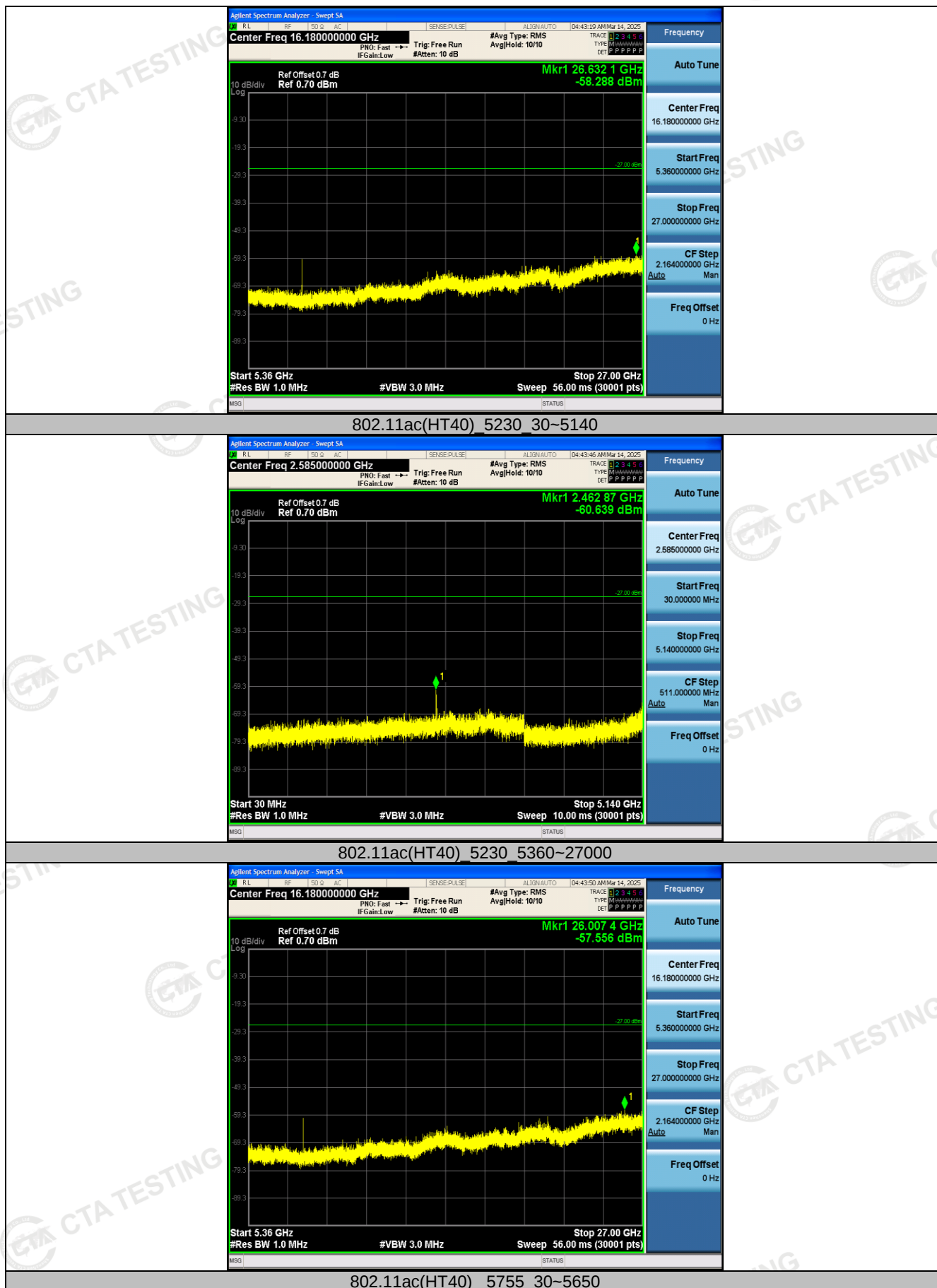
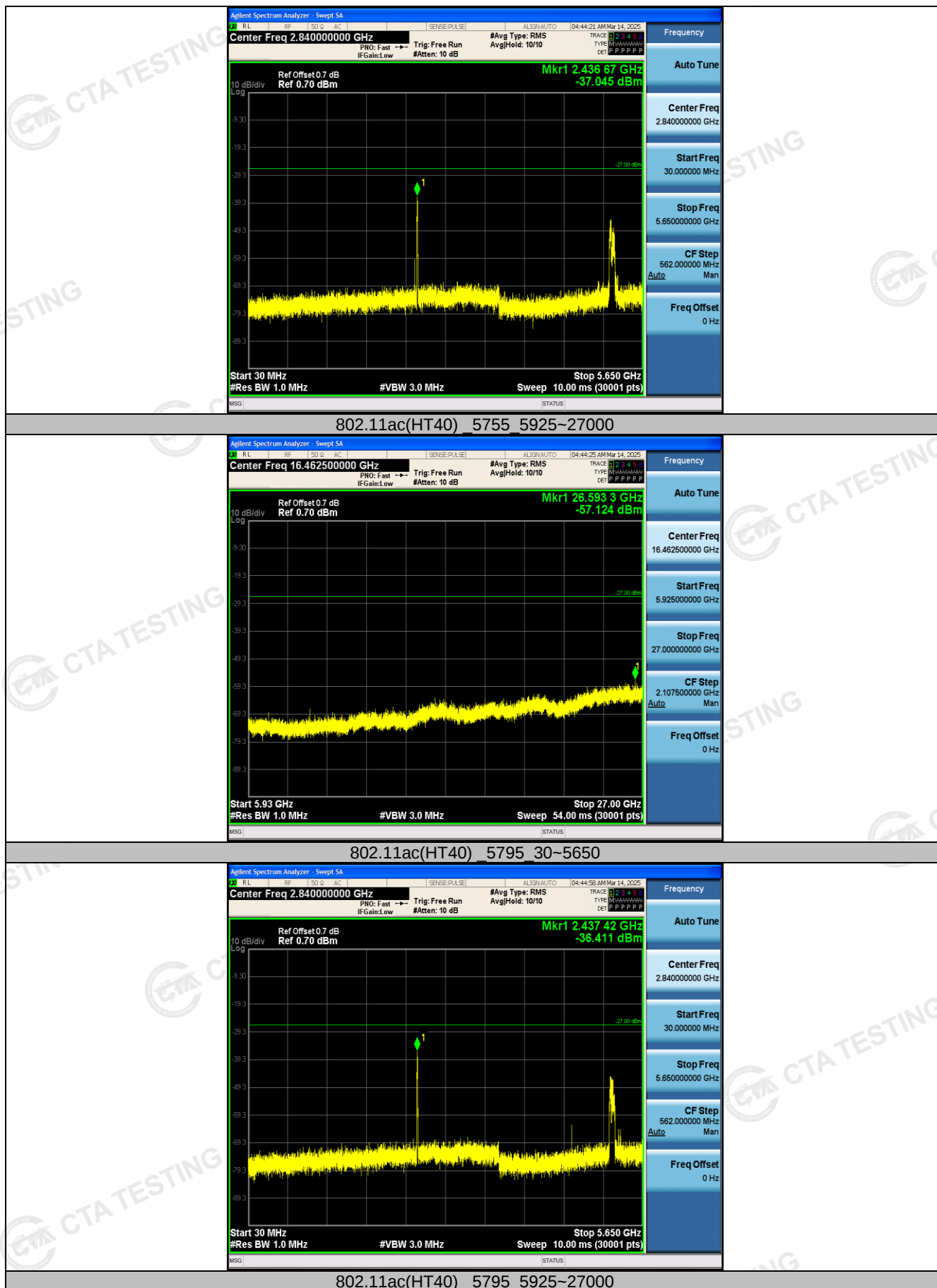
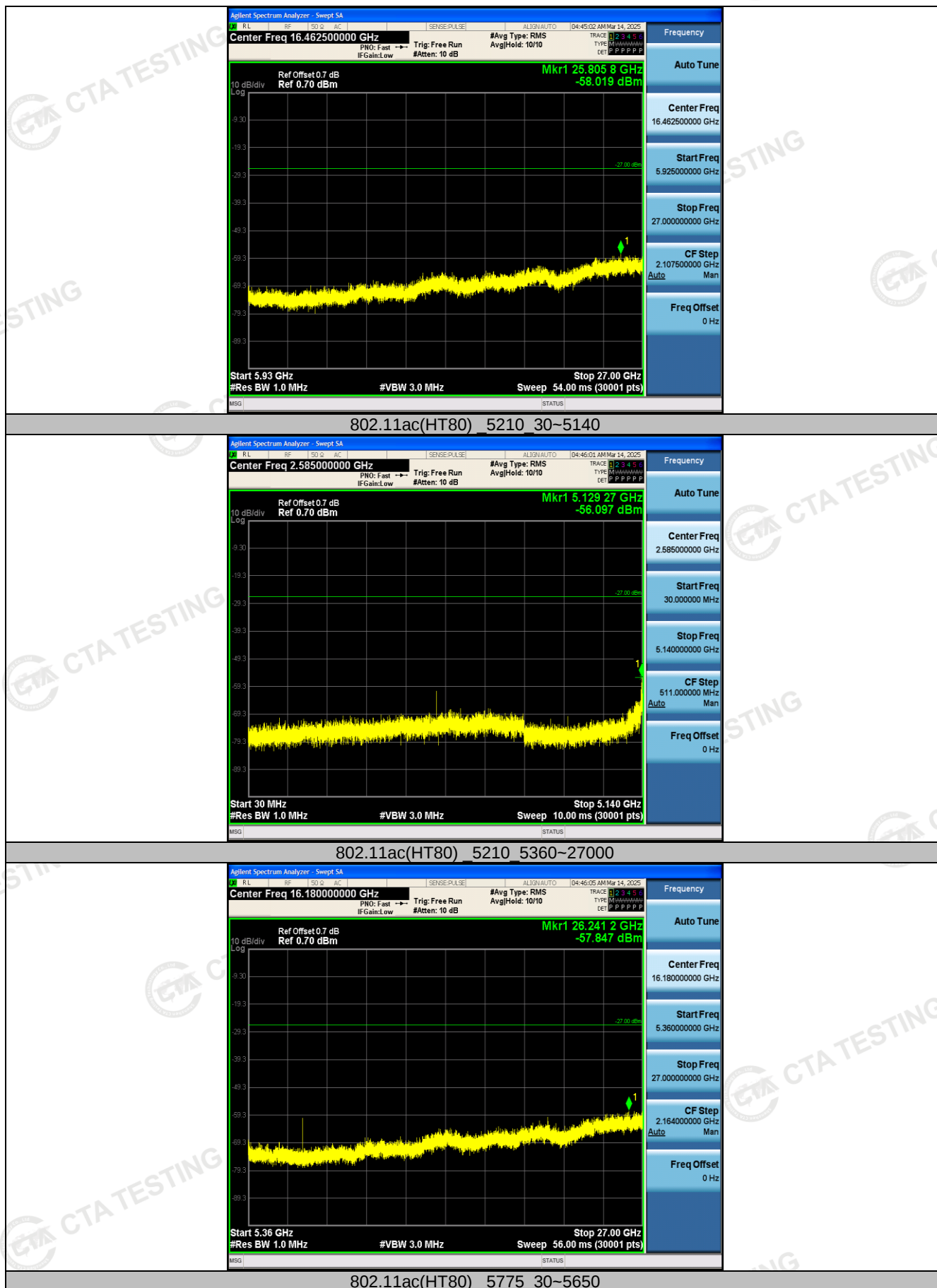
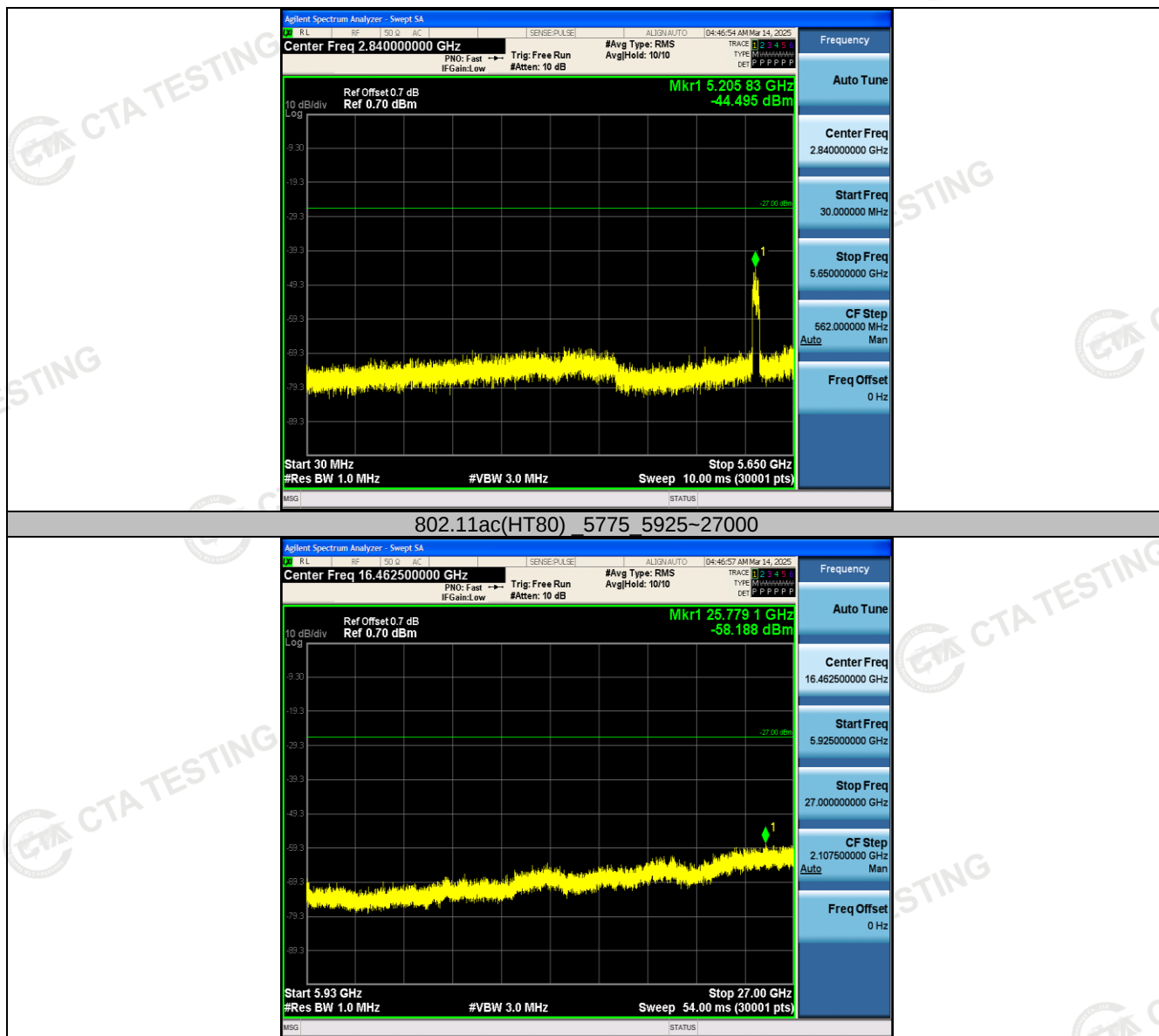












Conducted Band Edge

U-NII 1:

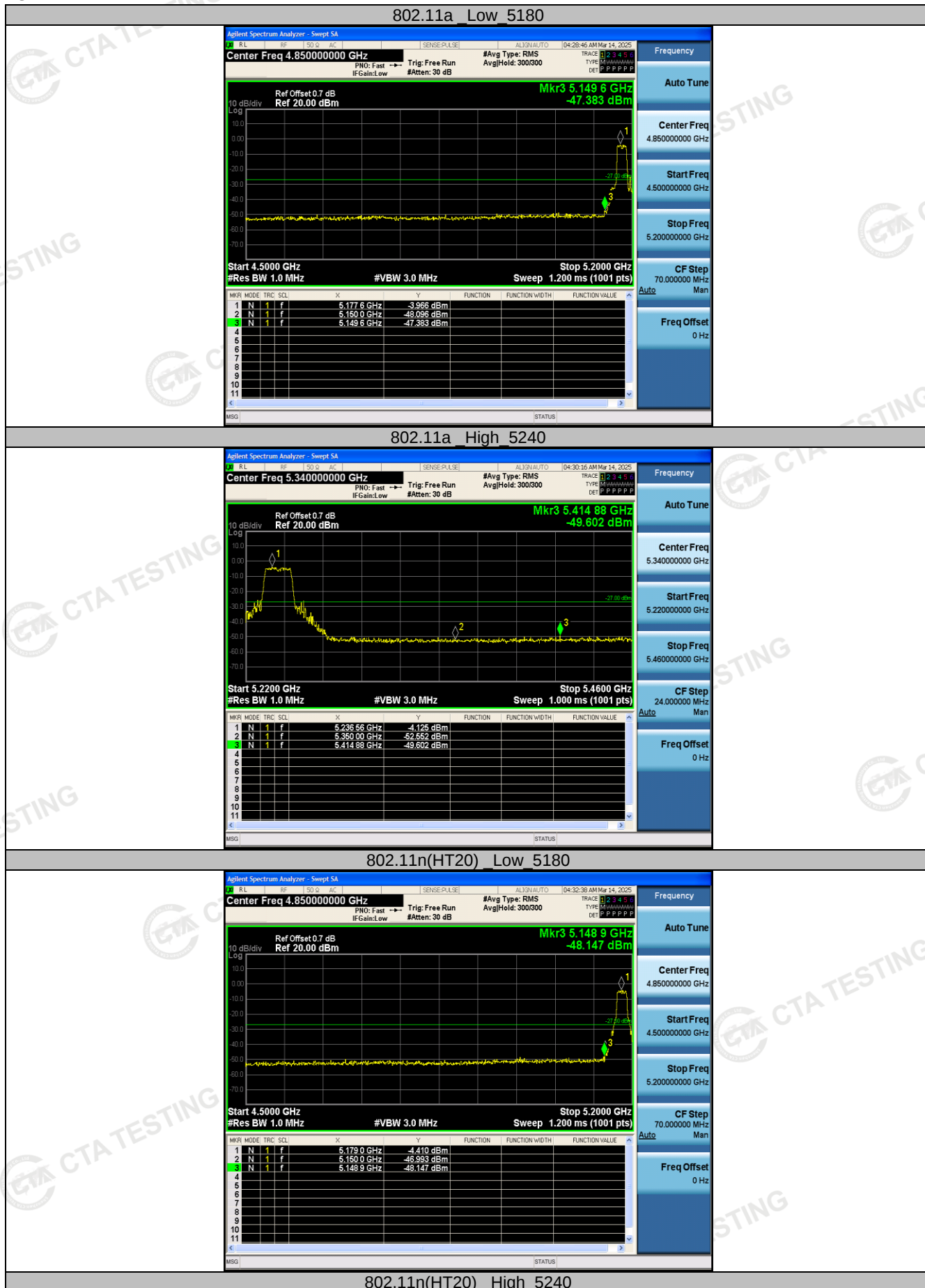
TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
802.11a	Low	5180	-47.38	≤-27	PASS
	High	5240	-49.6	≤-27	PASS
802.11n(HT20)	Low	5180	-48.15	≤-27	PASS
	High	5240	-49.27	≤-27	PASS
802.11n(HT40)	Low	5190	-44.36	≤-27	PASS
	High	5230	-49.74	≤-27	PASS
802.11ac(HT20)	Low	5180	-49.16	≤-27	PASS
	High	5240	-49.94	≤-27	PASS
802.11ac(HT40)	Low	5190	-46.62	≤-27	PASS
	High	5230	-49.48	≤-27	PASS
802.11ac(HT80)	Low	5210	-43.39	≤-27	PASS
	High	5210	-49.43	≤-27	PASS

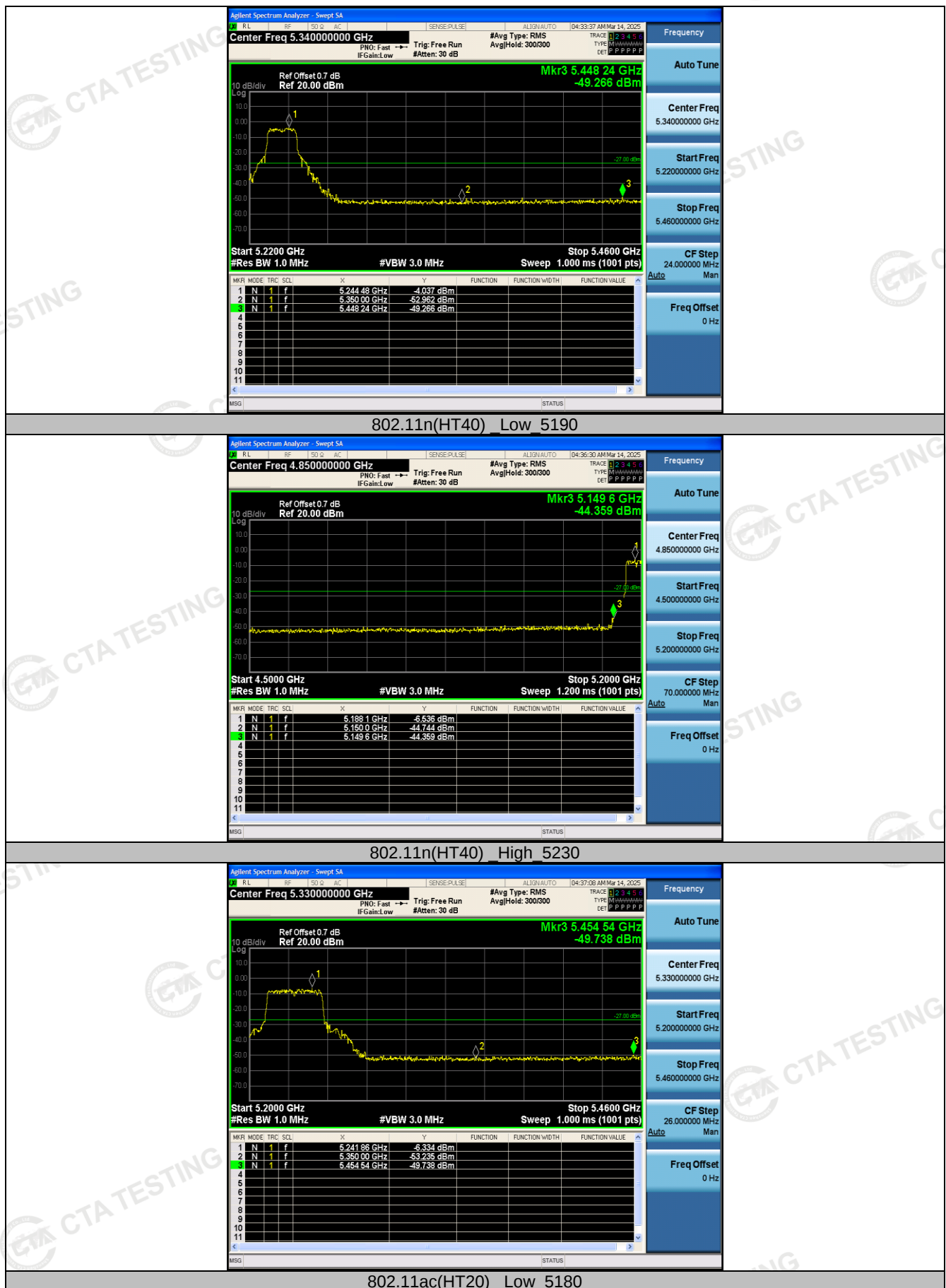
U-NII 3:

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
802.11a	Low	5745	5650~5700	-52.21	≤-26.62	PASS
			5700~5720	-41.27	≤14.92	PASS
			5720~5725	-33.91	≤22.63	PASS
			5760~5650	-50.72	≤-27	PASS
	High	5825	5850~5855	-46.64	≤16.65	PASS
			5855~5875	-49.44	≤10.29	PASS
			5875~5925	-50.83	≤-26.91	PASS
			5925~5935	-49.42	≤-27	PASS
802.11n(HT 20)	Low	5745	5650~5700	-50.27	≤-26.96	PASS
			5700~5720	-40.67	≤15.59	PASS
			5720~5725	-40.81	≤15.82	PASS
			5760~5650	-50.18	≤-27	PASS
	High	5825	5850~5855	-46.96	≤15.73	PASS
			5855~5875	-50.45	≤10.17	PASS
			5875~5925	-51.29	≤-26.91	PASS
			5925~5935	-49.66	≤-27	PASS
802.11n(HT 40)	Low	5755	5650~5700	-49.87	≤-26.70	PASS
			5700~5720	-39.63	≤15.58	PASS
			5720~5725	-39.88	≤15.74	PASS
			5780~5650	-49.43	≤-27	PASS
	High	5795	5850~5855	-52.16	≤15.66	PASS
			5855~5875	-50.36	≤10.53	PASS
			5875~5925	-50.74	≤-26.59	PASS
			5925~5935	-50.27	≤-27	PASS
802.11ac(H T20)	Low	5745	5650~5700	-50.67	≤-25.76	PASS
			5700~5720	-41.63	≤15.37	PASS
			5720~5725	-35.79	≤19.49	PASS
			5760~5650	-50.6	≤-27	PASS
	High	5825	5850~5855	-46.11	≤17.57	PASS
			5855~5875	-50.57	≤10.32	PASS
			5875~5925	-51.08	≤-26.71	PASS
			5925~5935	-49.52	≤-27	PASS
802.11ac(H T40)	Low	5755	5650~5700	-52.25	≤-26.90	PASS
			5700~5720	-40	≤15.58	PASS
			5720~5725	-39.9	≤16.35	PASS
			5780~5650	-50.64	≤-27	PASS
	High	5795	5850~5855	-50.66	≤15.66	PASS
			5855~5875	-51.18	≤10.06	PASS
			5875~5925	-50.41	≤-26.34	PASS
			5925~5935	-49.66	≤-27	PASS
802.11ac(H T80)	Low	5775	5650~5700	-51.61	≤-26.69	PASS
			5700~5720	-41.76	≤15.22	PASS
			5720~5725	-40.62	≤17.06	PASS
			5800~5650	-51.7	≤-27	PASS
	High	5775	5850~5855	-51.3	≤15.84	PASS
			5855~5875	-49.47	≤10.86	PASS
			5875~5925	-51.14	≤-26.46	PASS
			5925~5935	-49.67	≤-27	PASS

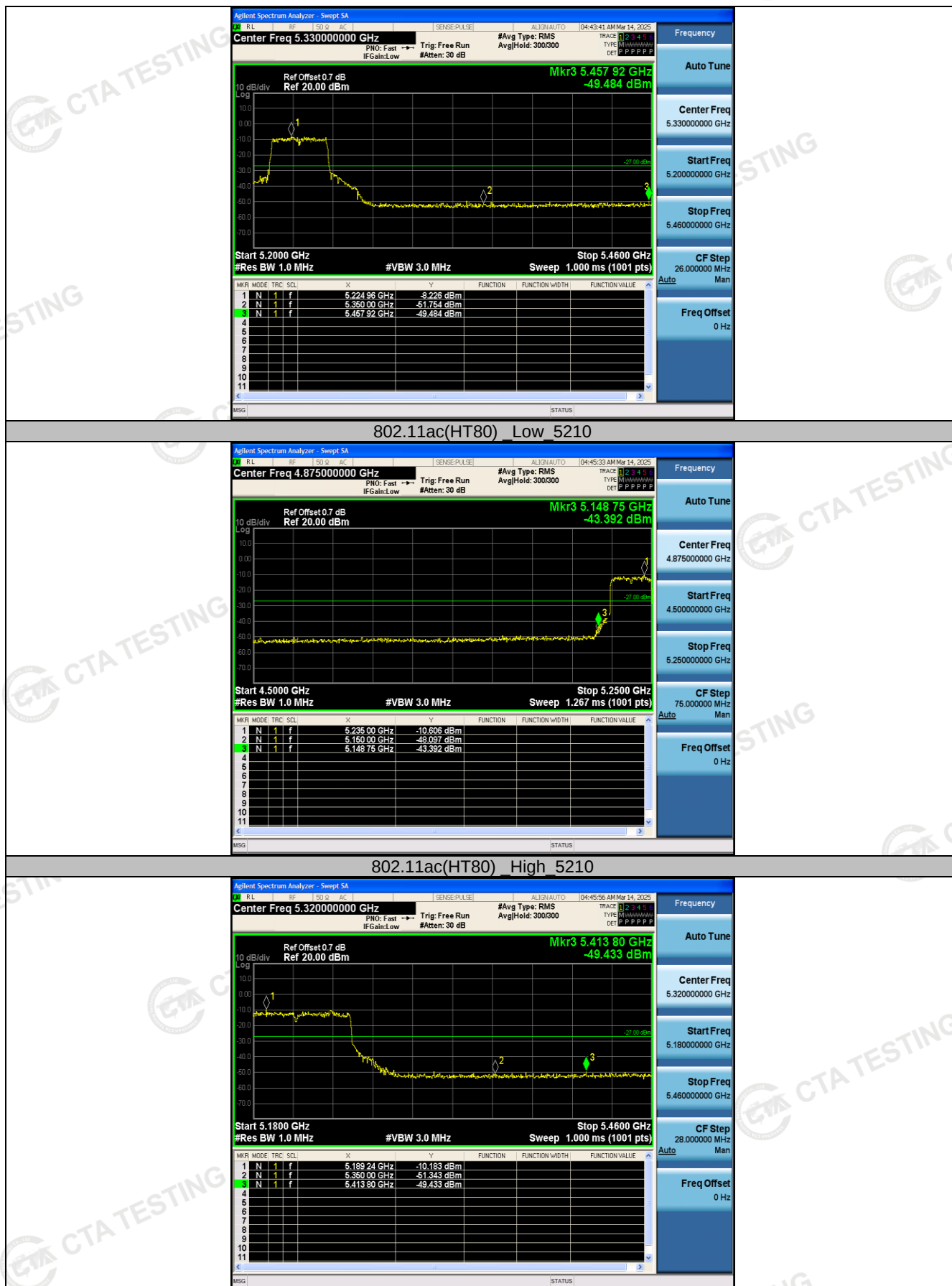
Test plot as follows

U-NII 1:









U-NII 3:









4.3 Maximum Conducted Average Output Power

Limit

For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results**U-NII 1**

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	36	6.15	24.0	Pass
	44	6.43		
	48	5.91		
802.11n(HT20)	36	6.55	24.0	Pass
	44	5.40		
	48	5.62		
802.11n(HT40)	38	4.76	24.0	Pass
	46	4.35		
802.11ac(HT20)	36	5.89	24.0	Pass
	44	5.86		
	48	6.23		
802.11ac(HT40)	38	5.07	24.0	Pass
	46	4.40		
802.11ac(HT80)	42	5.71	24.0	Pass

U-NII 3

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	149	5.10	30.00	Pass
	157	4.53		
	165	4.72		
802.11n(HT20)	149	5.47	30.00	Pass
	157	4.51		
	165	5.00		
802.11n(HT40)	151	4.24	30.00	Pass
	159	2.94		
802.11ac(HT20)	149	5.67	30.00	Pass
	157	4.31		
	165	4.14		
802.11ac(HT40)	151	3.75	30.00	Pass
	159	3.44		
802.11ac(HT80)	155	4.43	30.00	Pass

4.4 Power Spectral Density

Limit

(1) For the band 5.15 - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.^{note1}

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band.^{note1}

(2) For the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band.^{note1}

(3) For the band 5.725 - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.^{note1, note2}

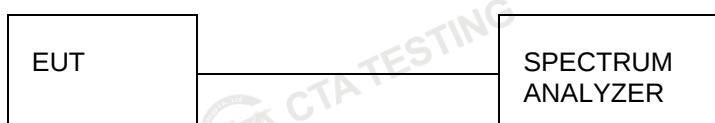
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

U-NII 1

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 1	36	-4.85	11.0	Pass
		44	-4.43		
		48	-4.94		
802.11n (HT20)	U-NII 1	36	-4.57		
		44	-5.85		
		48	-5.65		
802.11n (HT40)	U-NII 1	38	-8.68		
		46	-9.32		
802.11ac (HT20)	U-NII 1	36	-5.03		
		44	-5.37		
		48	-4.73		
802.11ac (HT40)	U-NII 1	38	-8.79		
		46	-9.52		
802.11ac (HT80)	U-NII 1	42	-10.74		

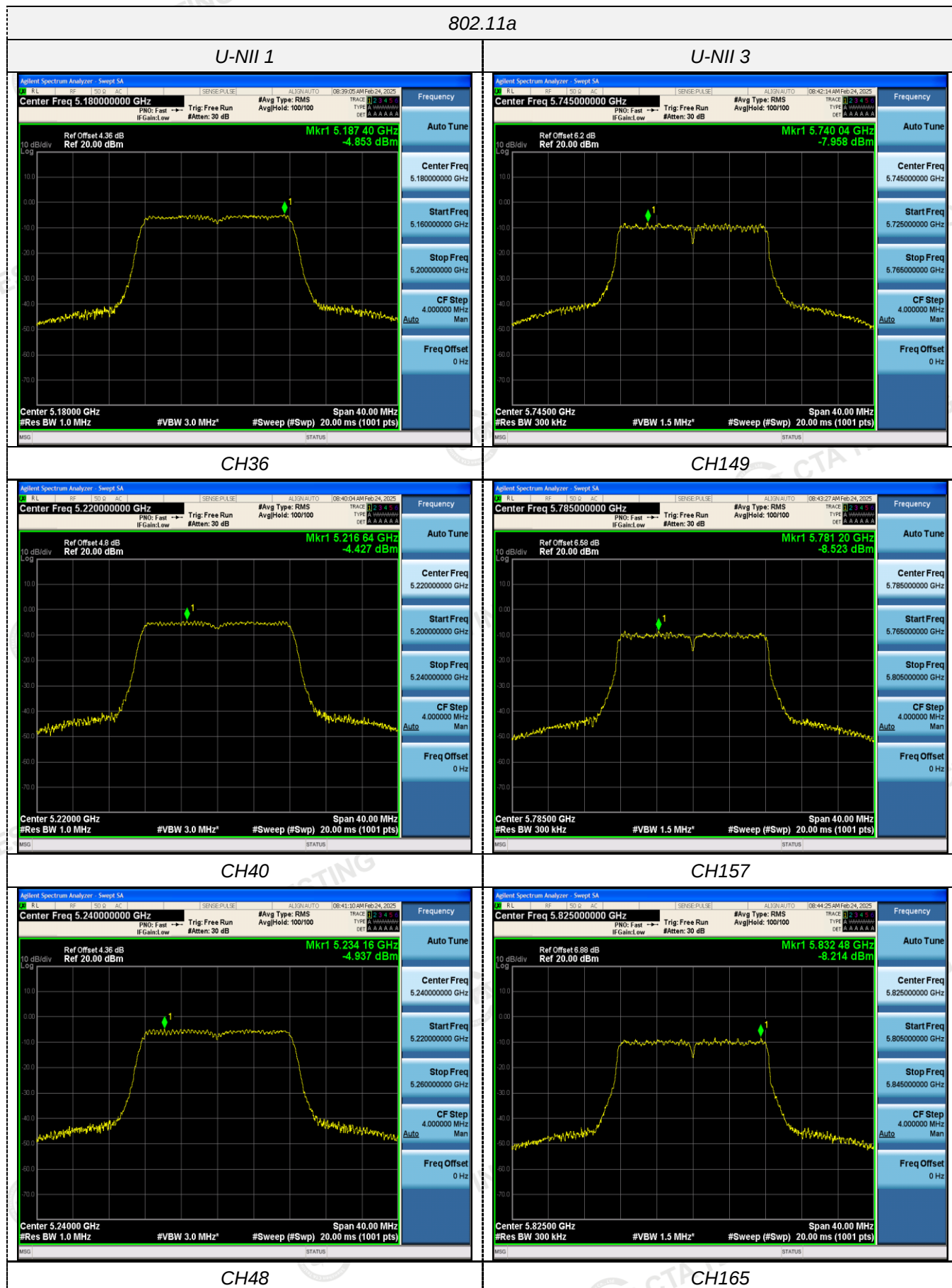
U-NII 3

Type	Bands	Channel	Power Spectral Density (dBm/300KHz)	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
802.11a	U-NII 3	149	-7.96	-5.74	30.0	Pass
		157	-8.52	-6.30		
		165	-8.21	-5.99		
802.11n (HT20)	U-NII 3	149	-7.39	-5.17		
		157	-8.40	-6.18		
		165	-8.04	-5.82		
802.11n (HT40)	U-NII 3	151	-10.99	-8.77		
		159	-12.55	-10.33		
802.11ac (HT20)	U-NII 3	149	-7.40	-5.18		
		157	-8.77	-6.55		
		165	-8.68	-6.46		
802.11ac (HT40)	U-NII 3	151	-11.88	-9.66		
		159	-11.55	-9.33		
802.11ac (HT80)	U-NII 3	155	-13.54	-11.32		

Note: RBW factor = $10 \log (500 \text{ KHz} / 300 \text{ KHz}) = 2.22 \text{ dB}$;

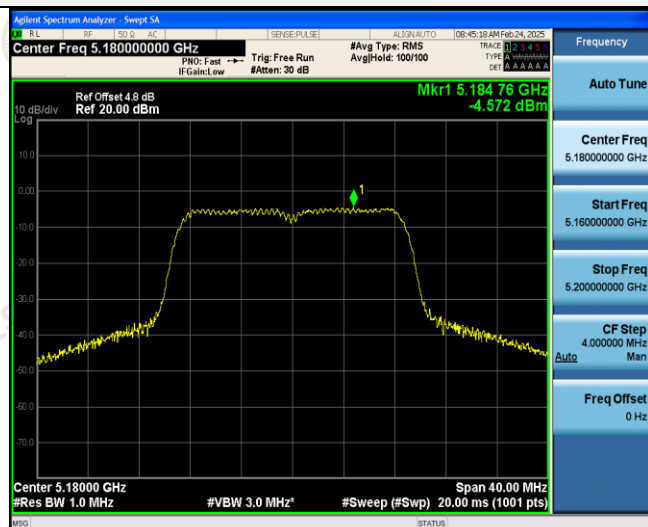
Test plot as follows

802.11a

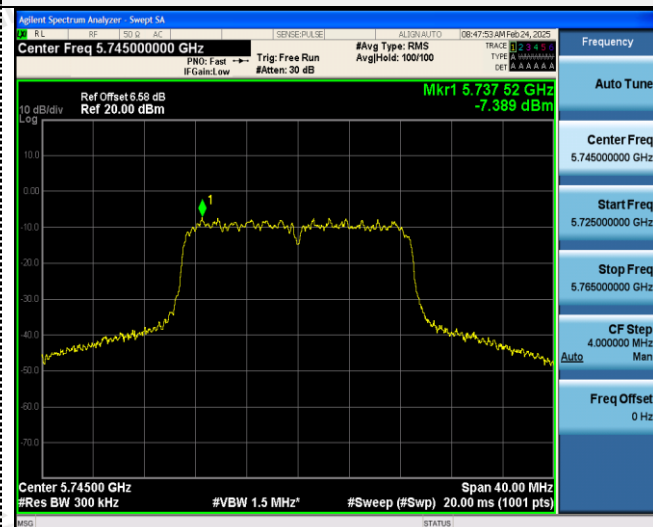


802.11n(HT20)

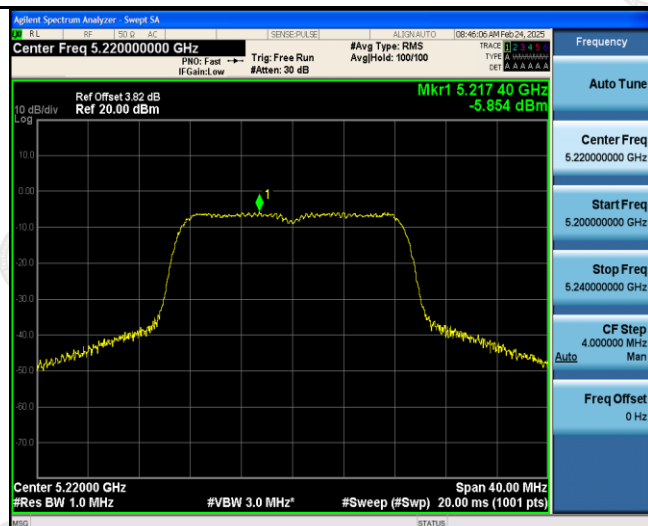
U-NII 1



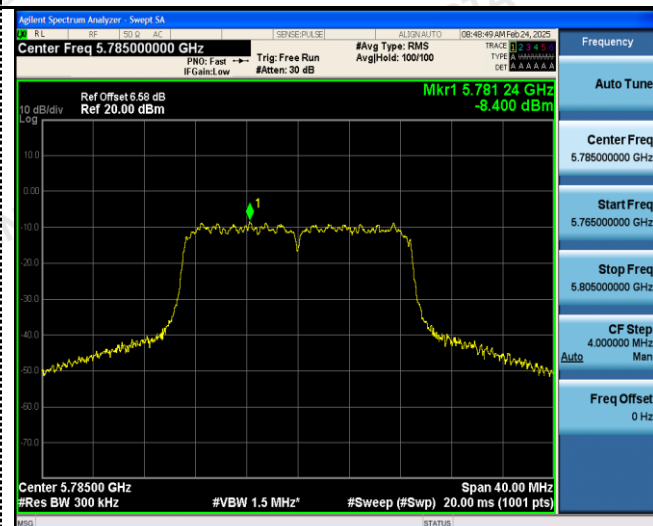
U-NII 3



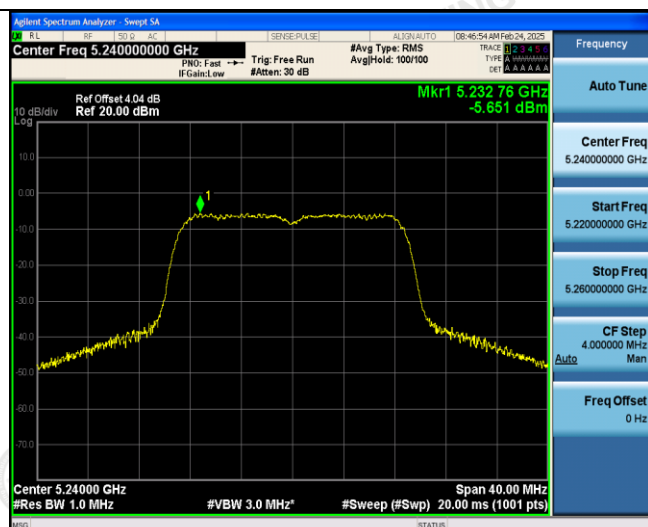
CH36



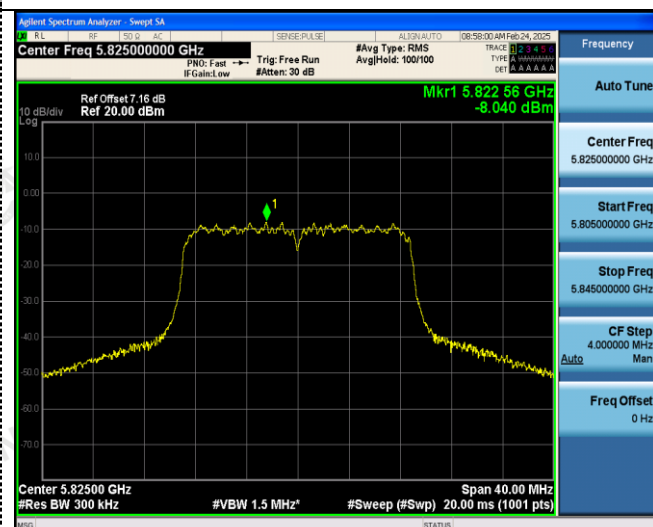
CH149



CH40



CH157

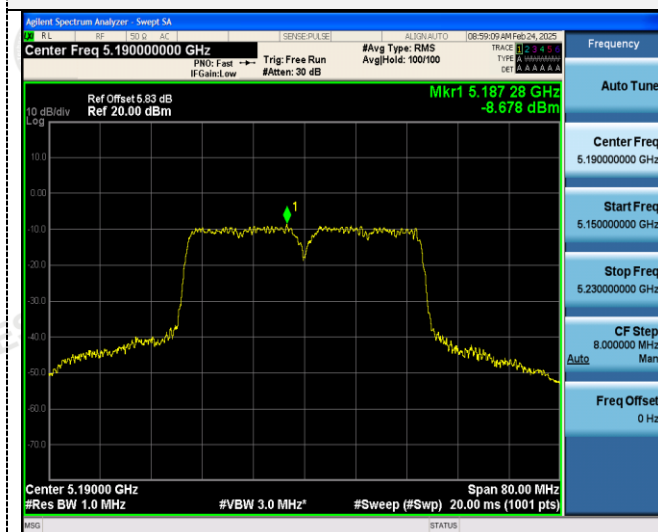


CH48

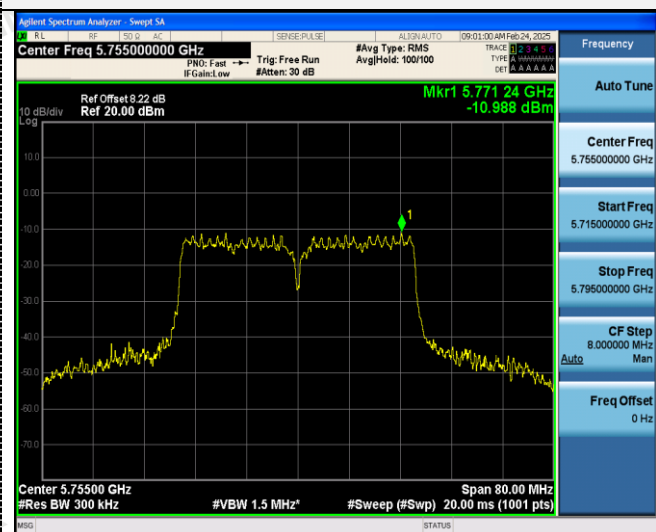
CH165

802.11n(HT40)

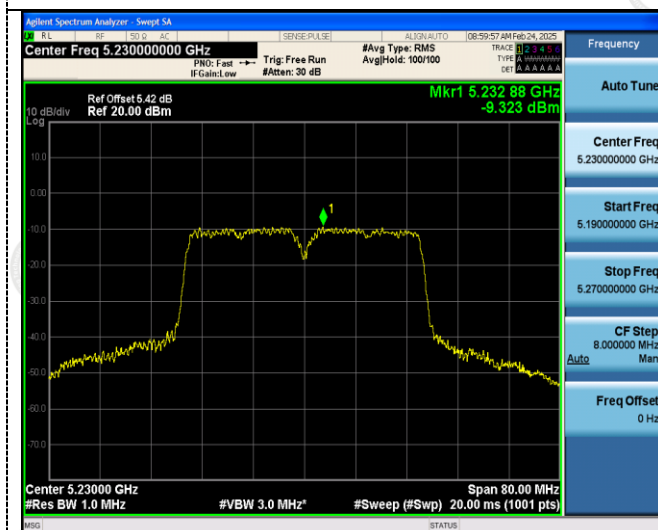
U-NII 1



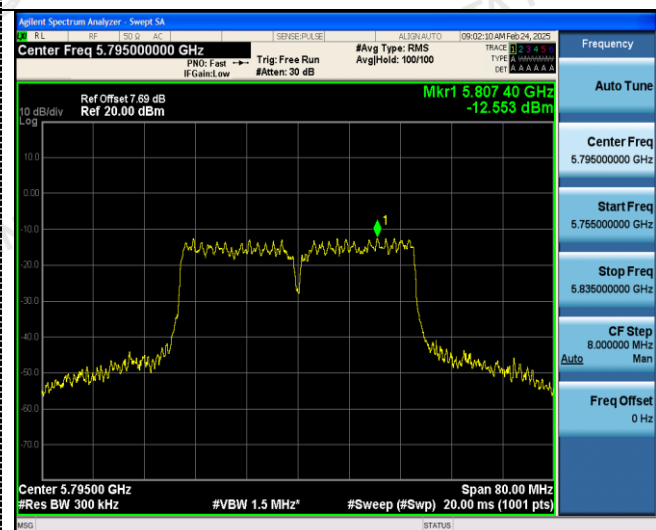
U-NII 3



CH38



CH151



CH46

CH159