



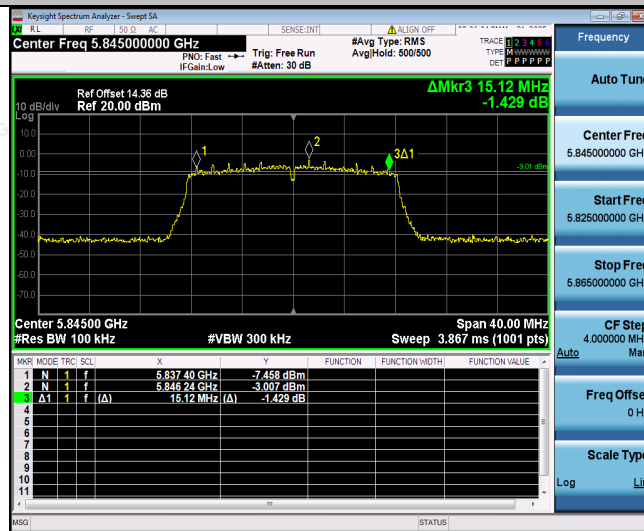
ANT. 2

Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH169	5845	15.12	0.5	PASS
802.11a	CH173	5865	15.12	0.5	PASS
802.11a	CH177	5885	15.12	0.5	PASS
802.11n(HT20)	CH169	5845	15.12	0.5	PASS
802.11n(HT20)	CH173	5865	15.00	0.5	PASS
802.11n(HT20)	CH177	5885	15.08	0.5	PASS
802.11n(HT40)	CH167	5835	35.04	0.5	PASS
802.11n(HT40)	CH175	5875	35.12	0.5	PASS
802.11ac(VHT20)	CH169	5845	15.68	0.5	PASS
802.11ac(VHT20)	CH173	5865	15.12	0.5	PASS
802.11ac(VHT20)	CH177	5885	15.12	0.5	PASS
802.11ac(VHT40)	CH167	5835	35.12	0.5	PASS
802.11ac(VHT40)	CH175	5875	35.12	0.5	PASS
802.11ac(VHT80)	CH171	5855	75.04	0.5	PASS
802.11ac(VHT160)	CH163	5815	154.88	0.5	PASS
802.11ax(HE20)	CH169	5845	16.04	0.5	PASS
802.11ax(HE20)	CH173	5865	17.56	0.5	PASS
802.11ax(HE20)	CH177	5885	16.56	0.5	PASS
802.11ax(HE40)	CH167	5835	35.12	0.5	PASS
802.11ax(HE40)	CH175	5875	35.12	0.5	PASS
802.11ax(HE80)	CH171	5855	75.04	0.5	PASS
802.11ax(HE160)	CH163	5815	154.88	0.5	PASS
802.11be(EHT20)	CH169	5845	16.32	0.5	PASS
802.11be(EHT20)	CH173	5865	15.84	0.5	PASS
802.11be(EHT20)	CH177	5885	16.32	0.5	PASS
802.11be(EHT40)	CH167	5835	35.84	0.5	PASS
802.11be(EHT40)	CH175	5875	35.12	0.5	PASS
802.11be(EHT80)	CH171	5855	75.04	0.5	PASS
802.11be(EHT160)	CH163	5815	152.32	0.5	PASS

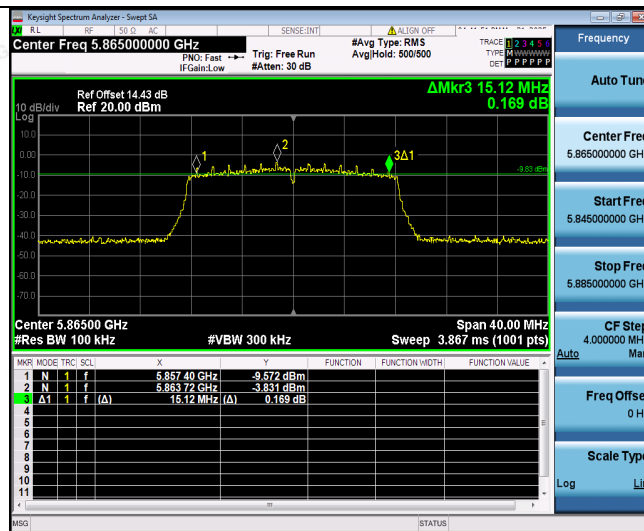
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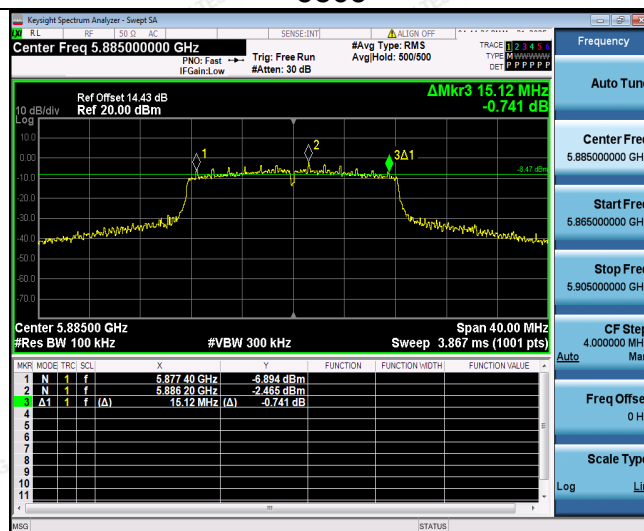
802.11a



5845



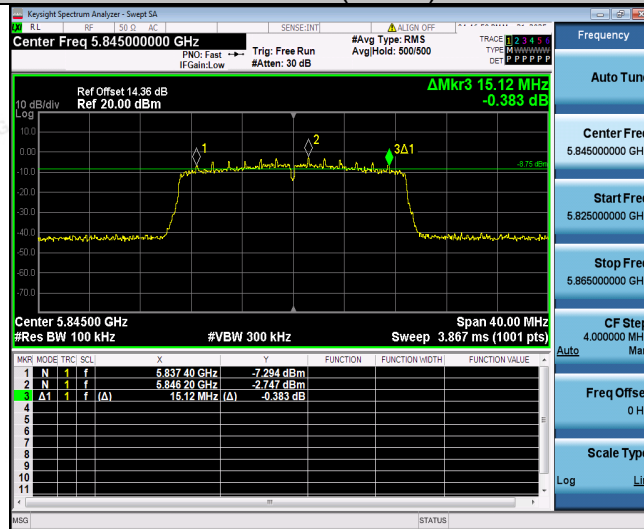
5865



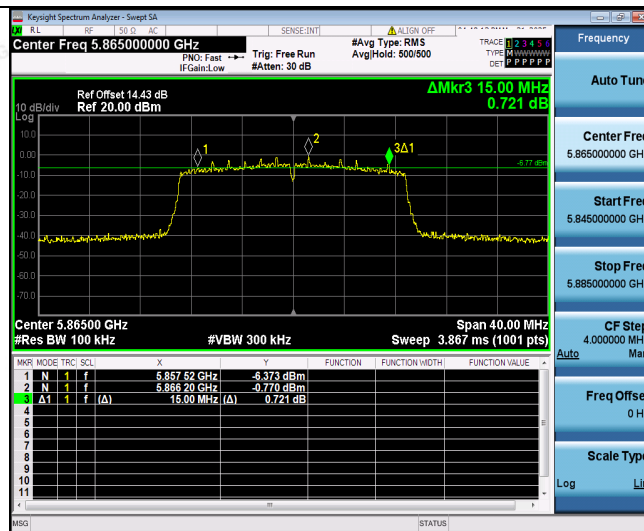
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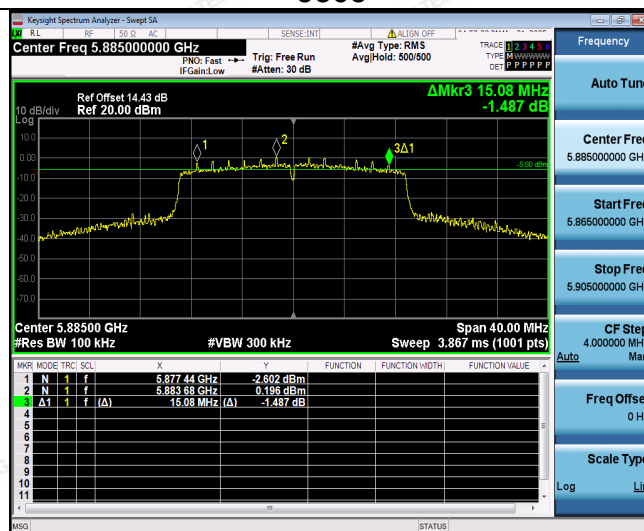
802.11n(HT20)



5845



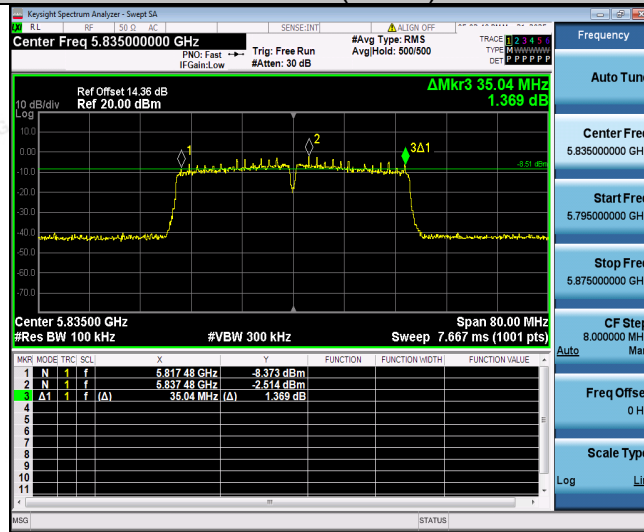
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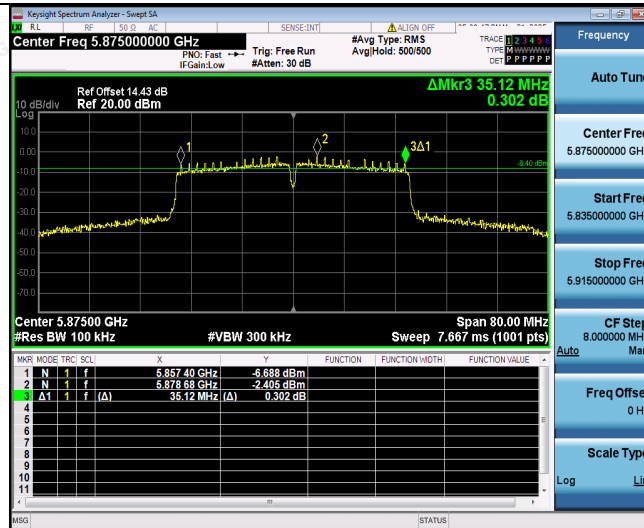
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802.11n(HT40)



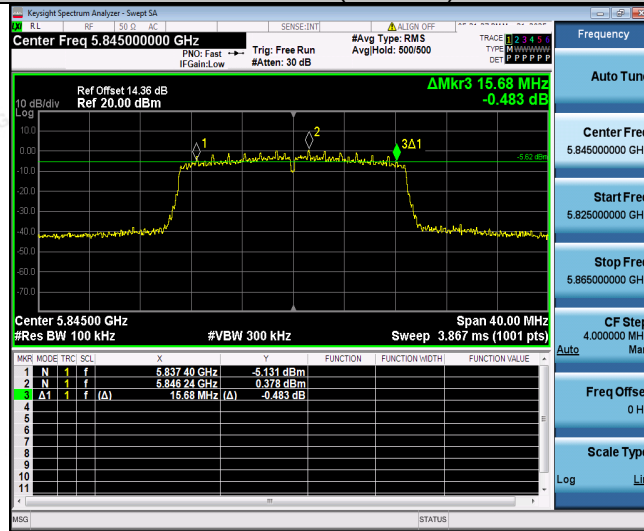
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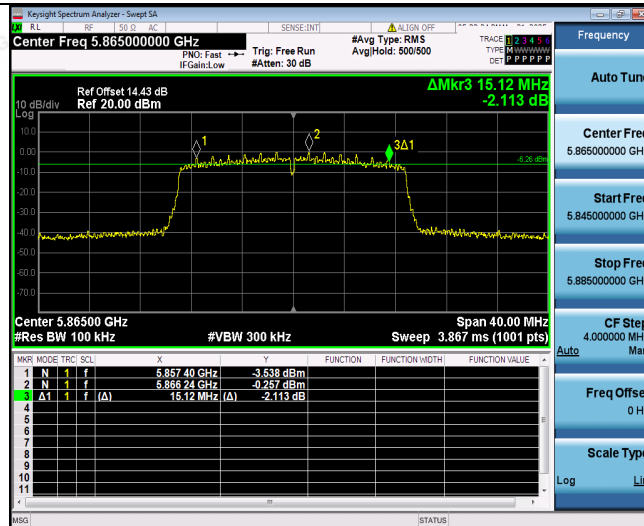
5875



802.11ac(VHT20)



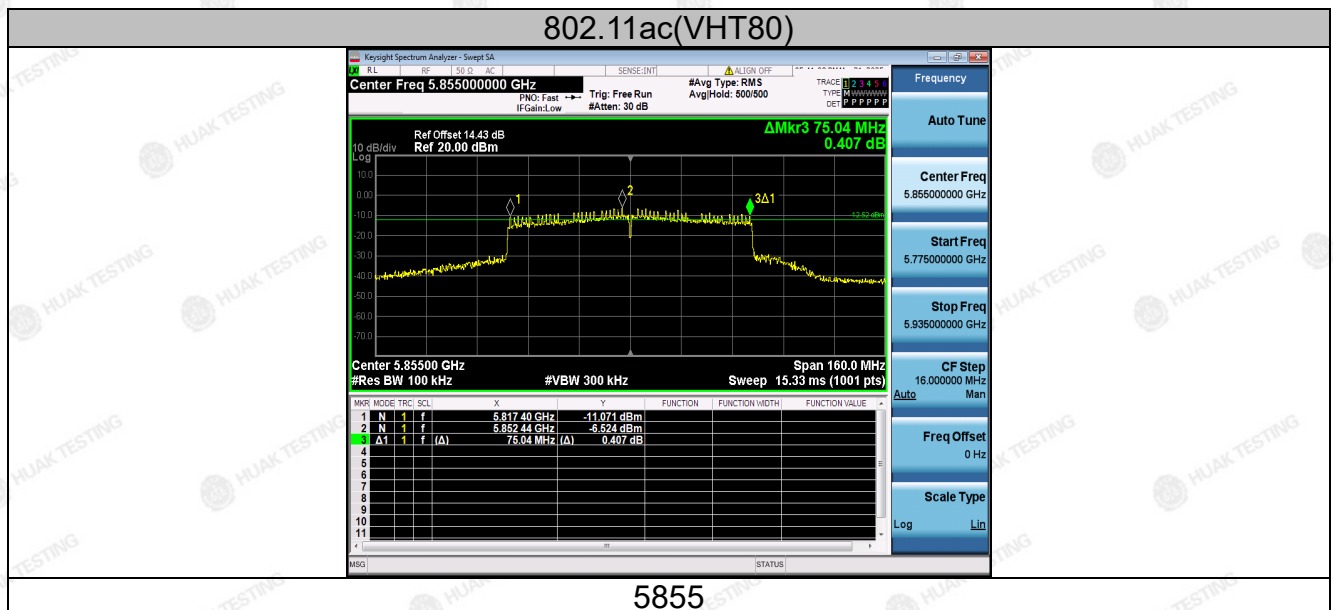
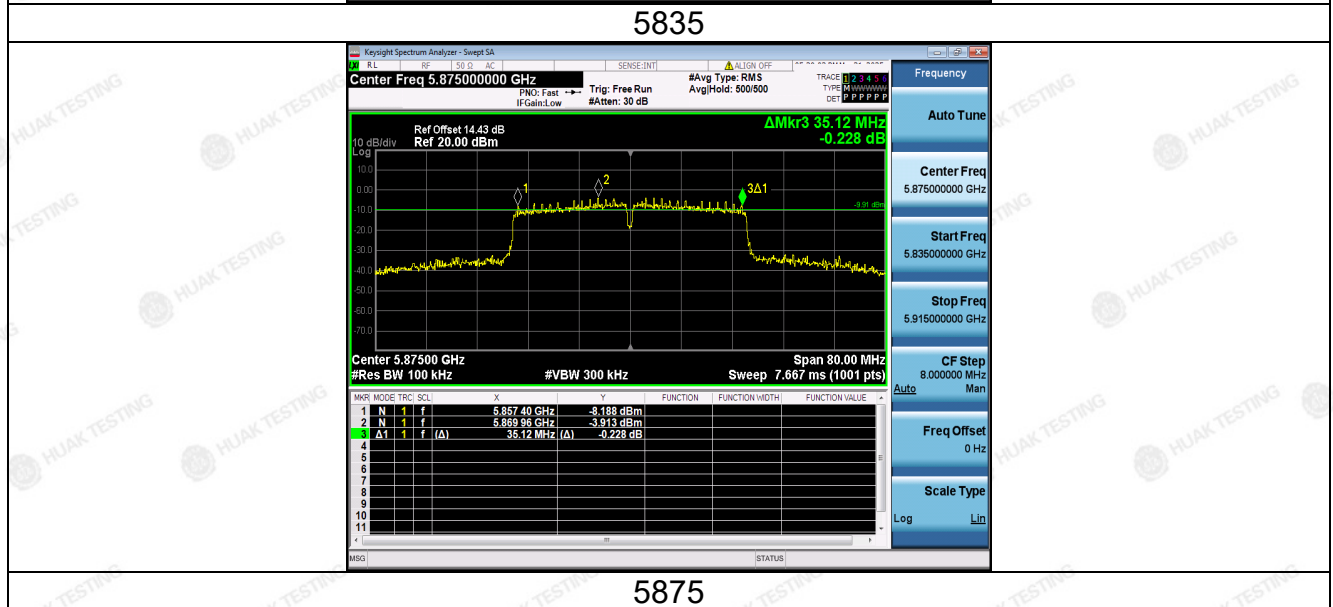
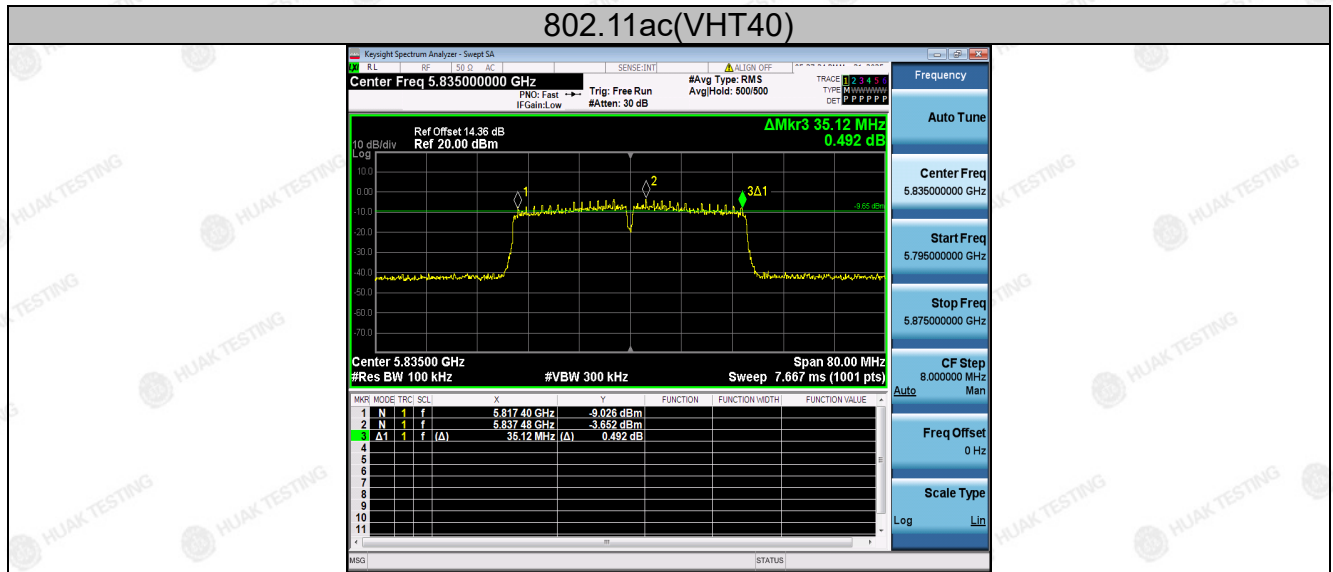
5845



5865



5885



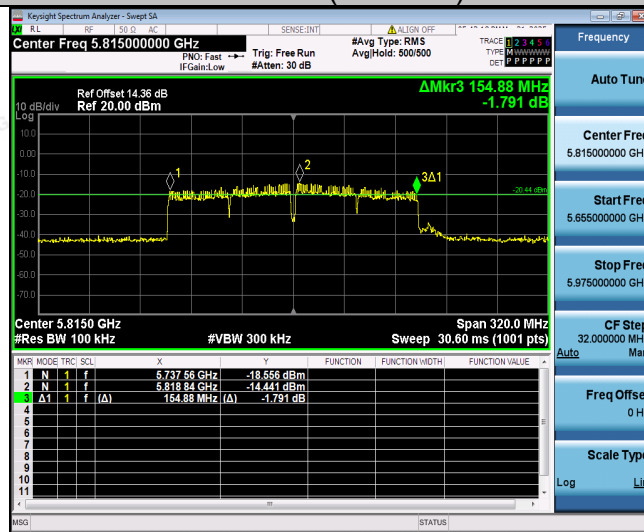
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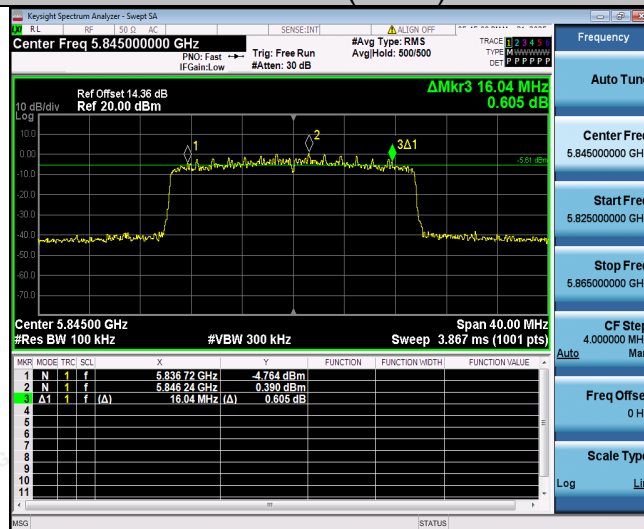


802.11ac(VHT160)

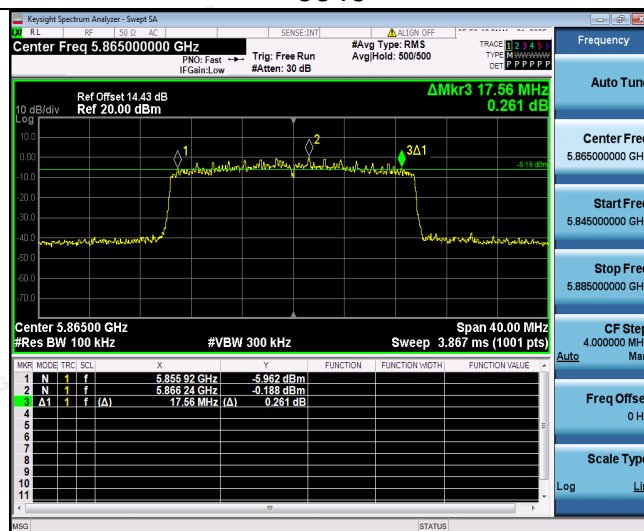


5815

802.11ax(HE20)



5845

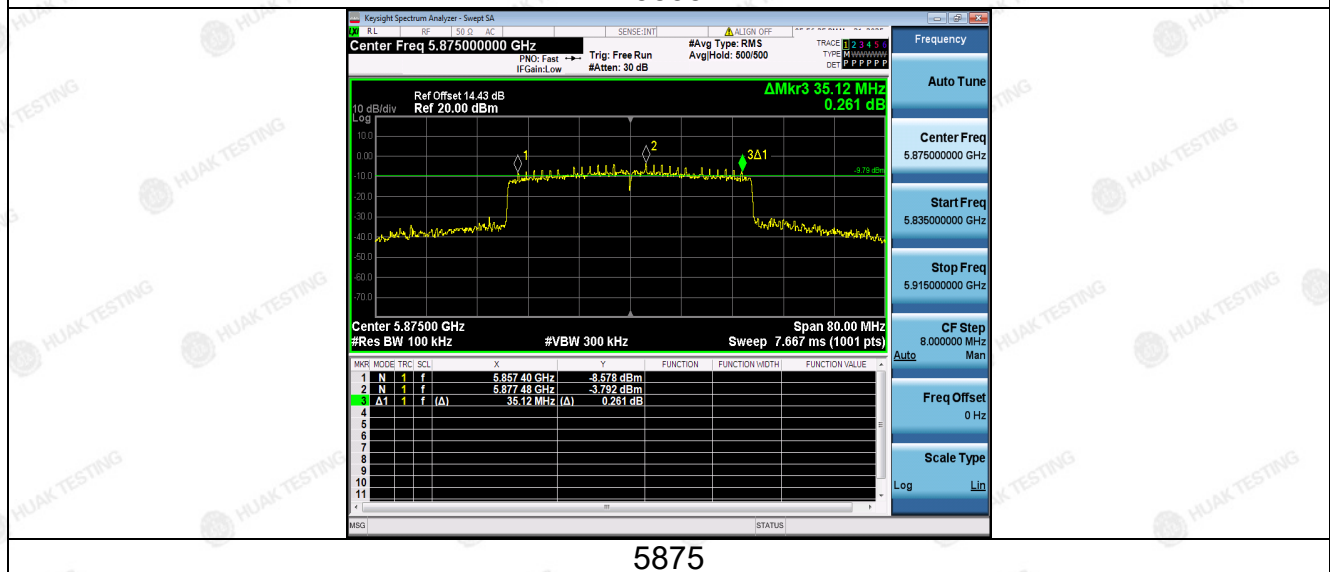
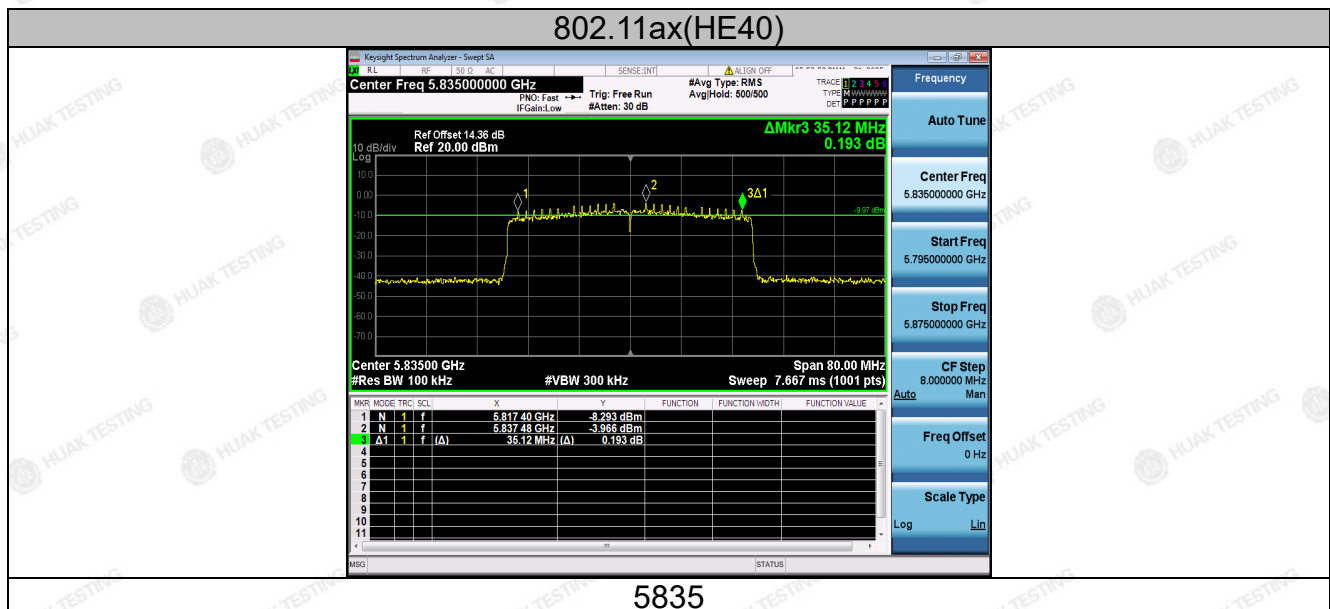
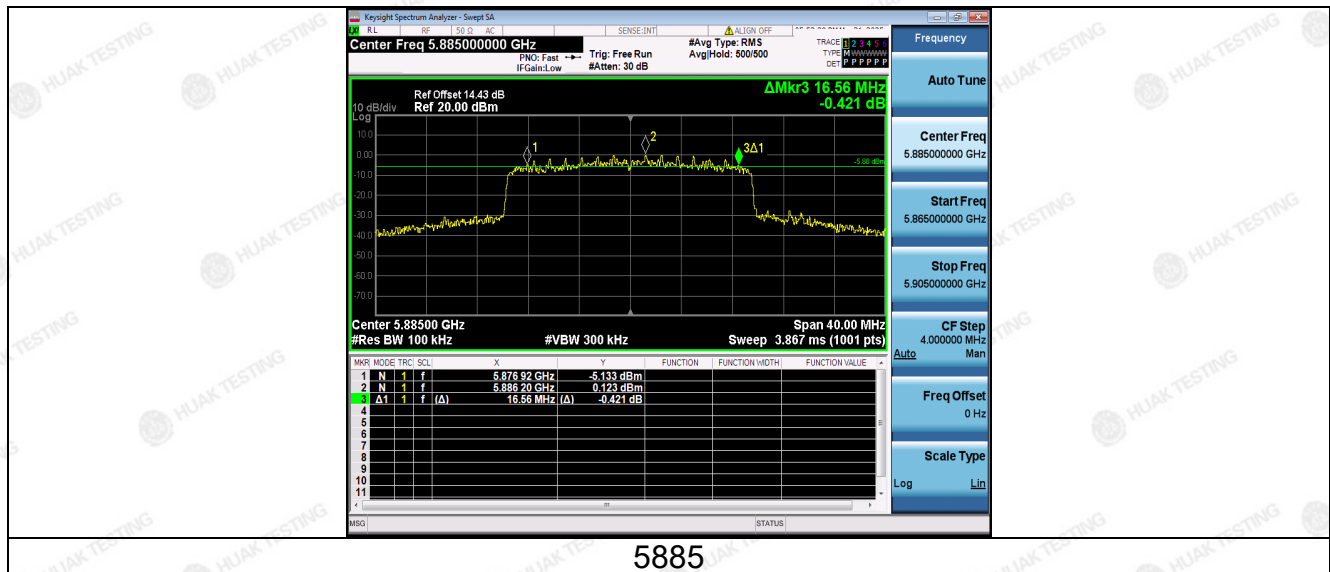


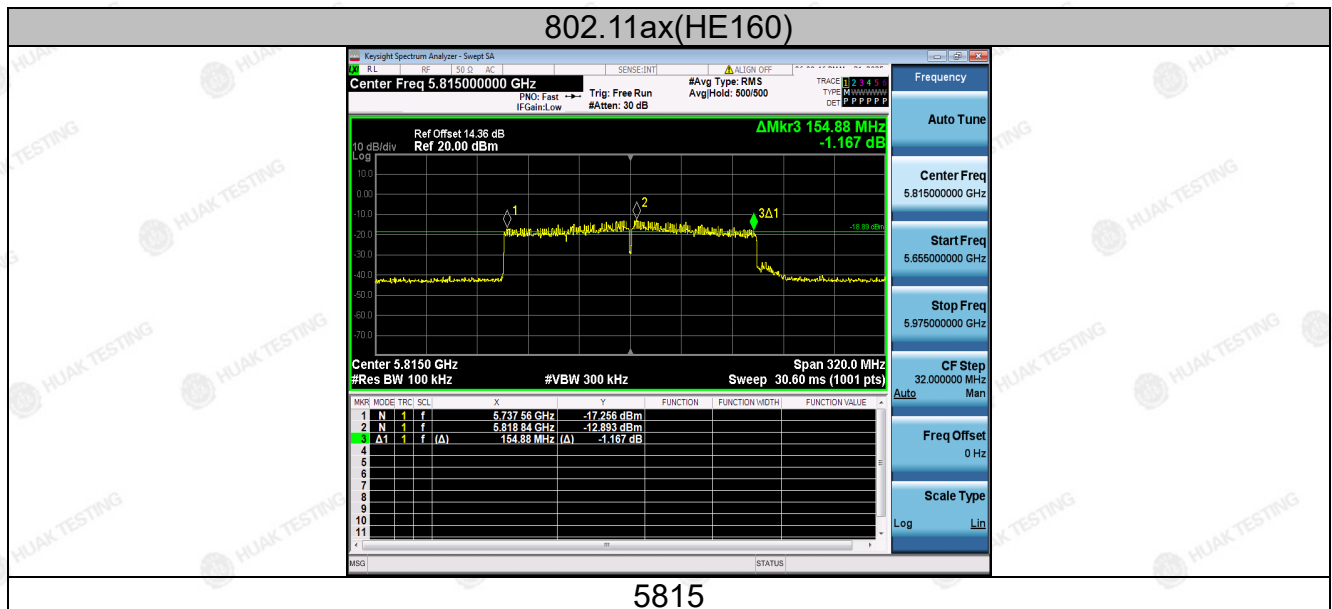
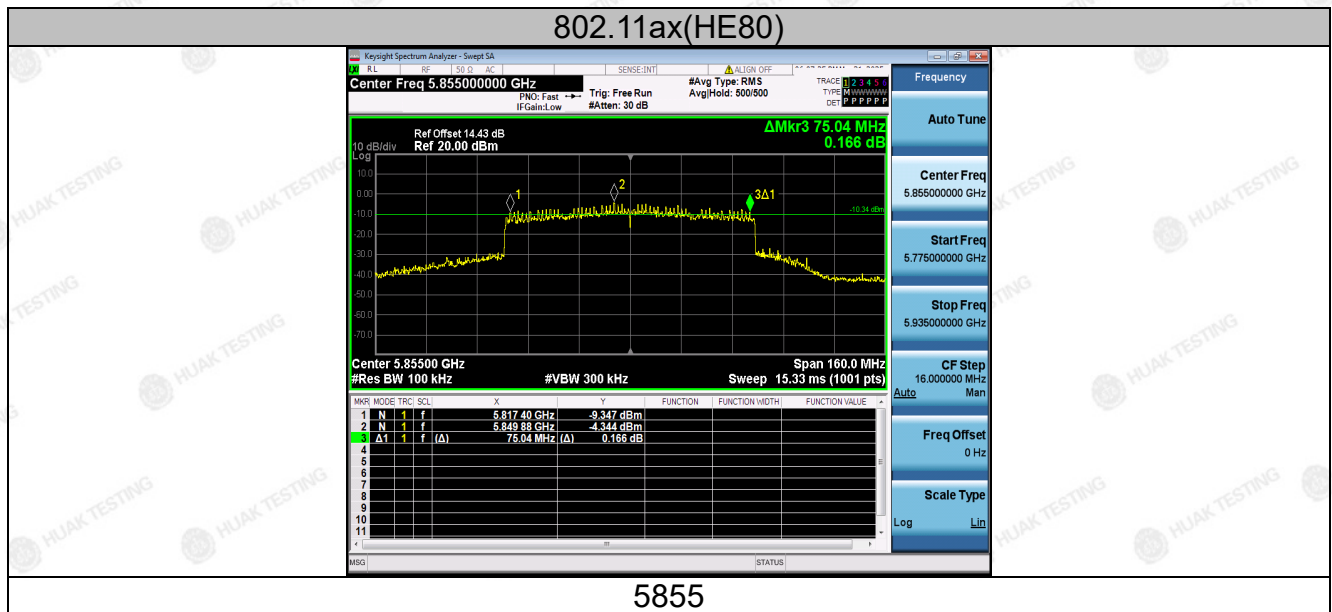
5865

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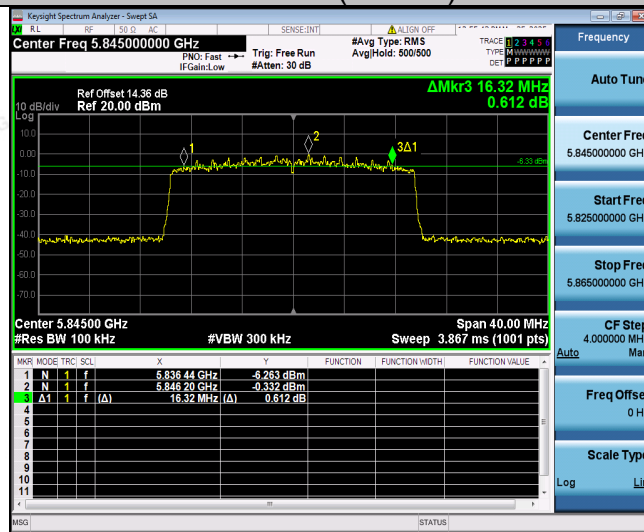
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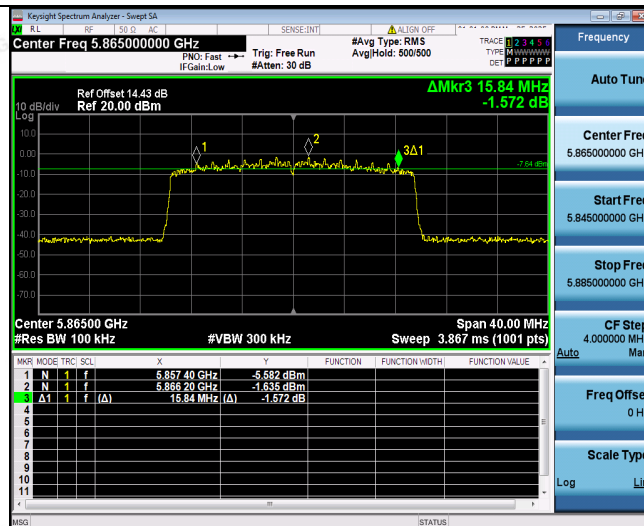




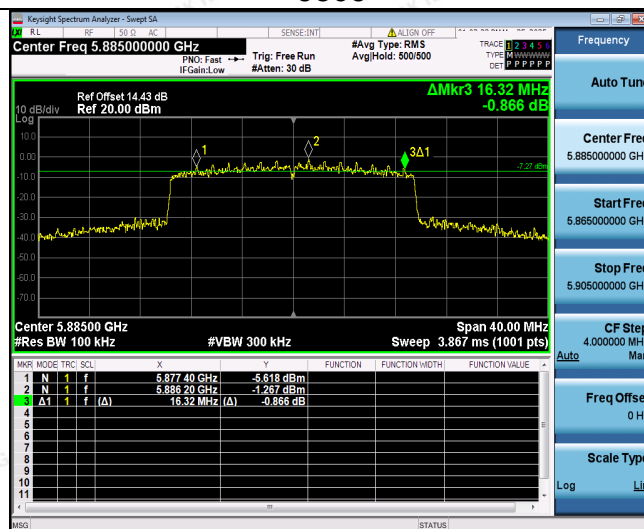
802.11be(EHT20)



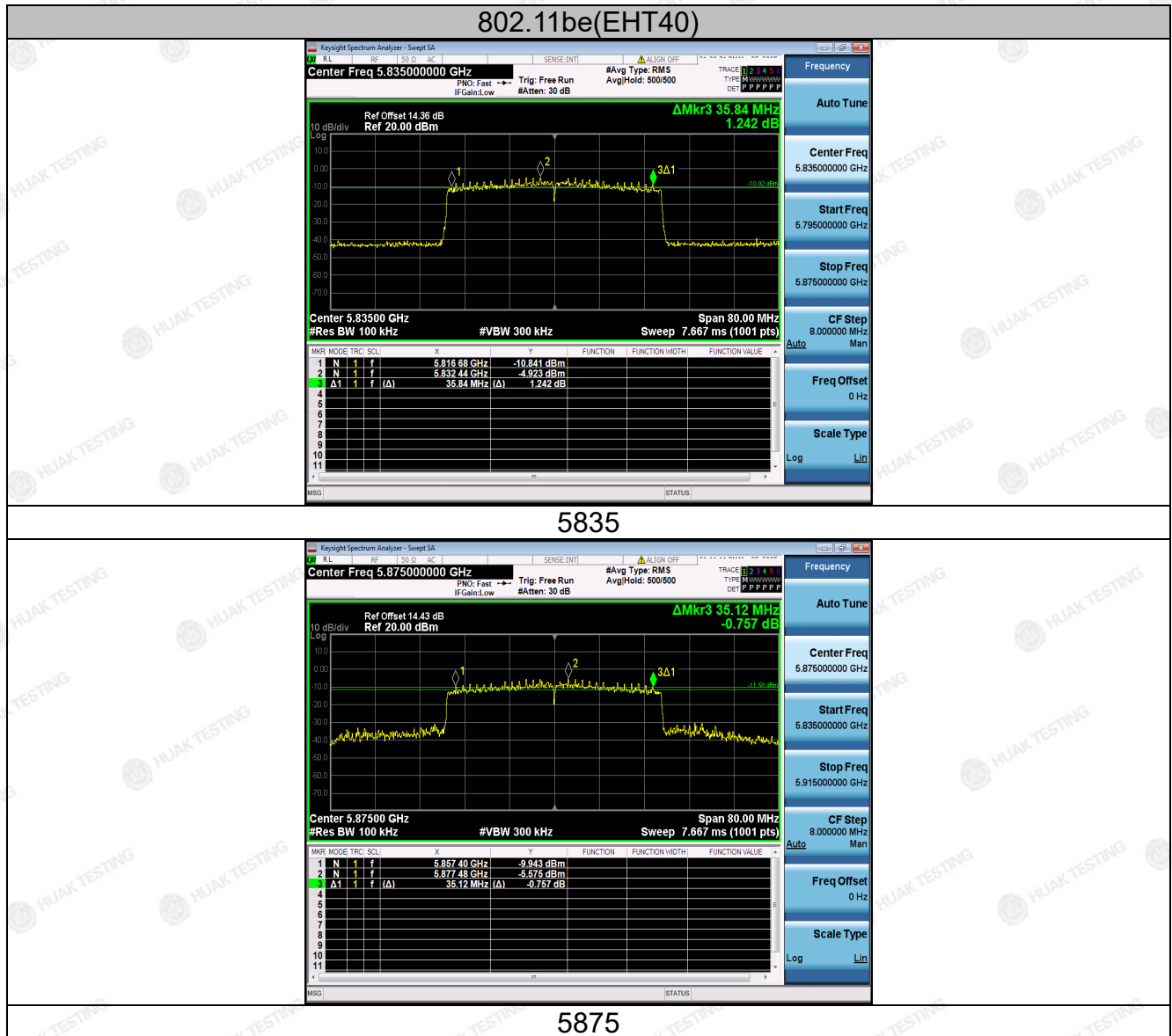
5845

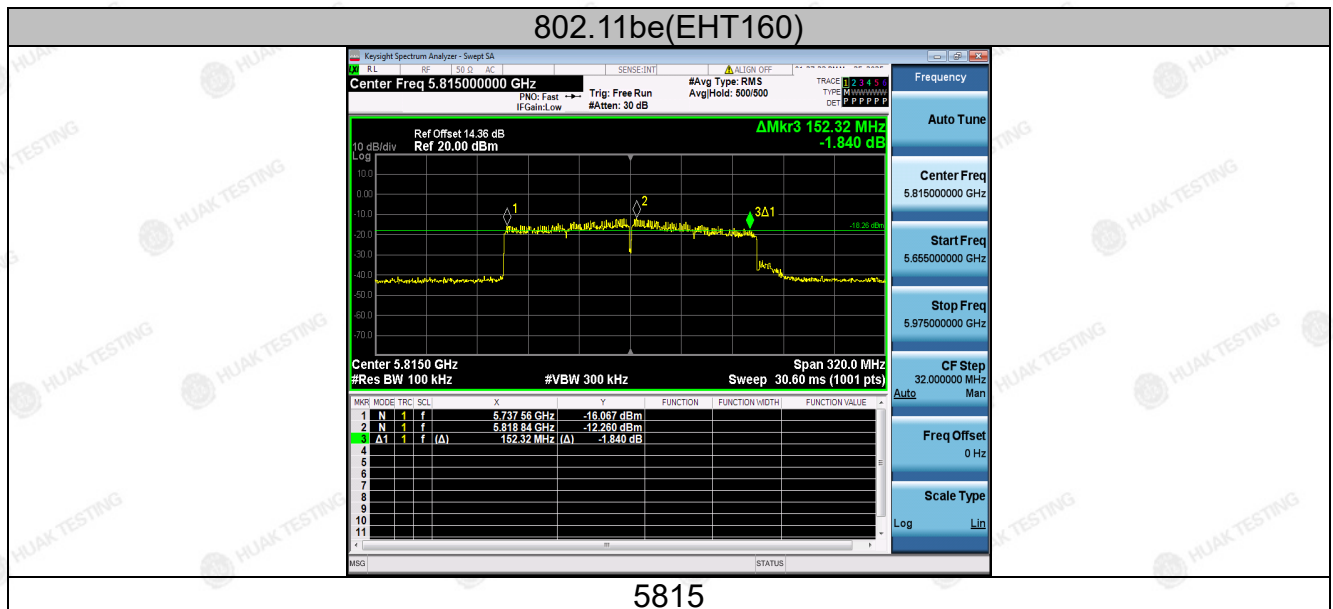
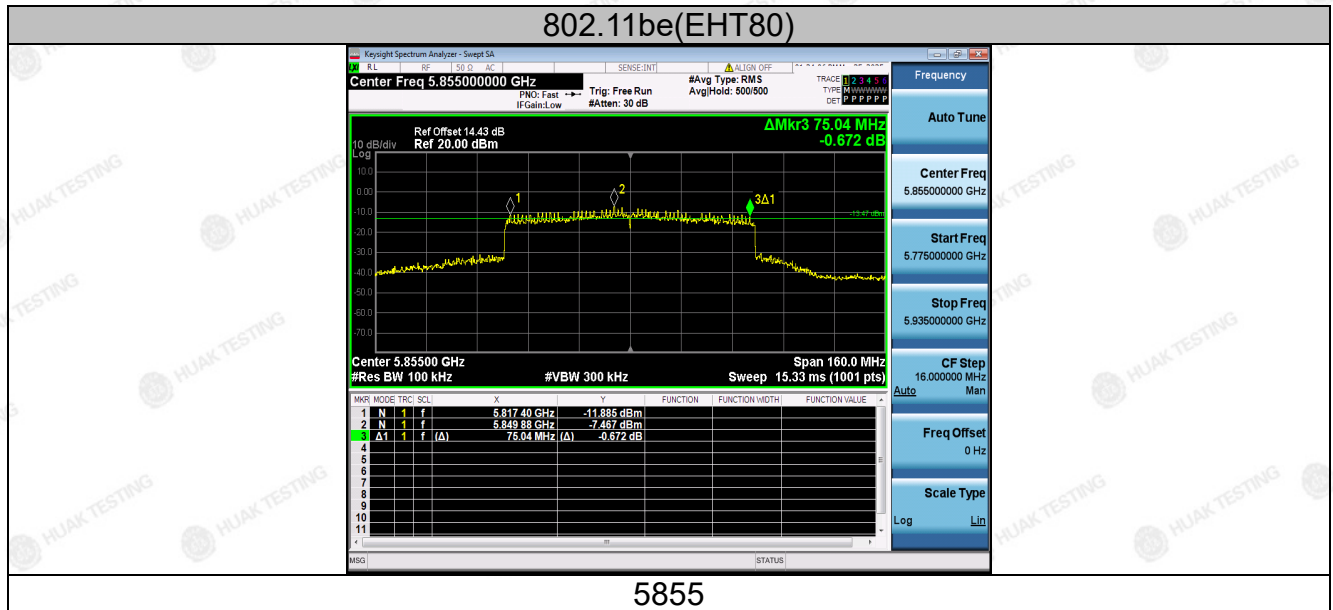


5865



5885







4.4 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1 Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	 The diagram illustrates the test setup. On the left is a green rectangular box labeled 'Spectrum Analyzer'. A black cable connects it to a yellow rectangular box on the right labeled 'EUT'.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth $RBW = 1\% \text{ EBW}$, $VBW \geq 3RBW$, in order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	N/A

4.4.2 Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.4.3 Test Result

N/A



4.5 Power Spectral Density

4.5.1 Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	$\leq 14\text{dBm/MHz}$ for 5815MHz-5885MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 2. Set RBW = 1 MHz, VBW = 3*RBW, Sweep time = Auto, Detector = RMS. 3. Allow the sweeps to continue until the trace stabilizes. 4. Use the peak marker function to determine the maximum amplitude level. 5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

4.5.2 Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.5.3 Test Data

ANT. 1

Mode	Test channel	Frequency [MHz]	Result [dBm/MHz]	E.I.R.P [dBm/MHz]	Limit [dBm/MHz]	Result
802.11a	CH169	5845	-3.76	-2.00	14	PASS
802.11a	CH173	5865	-1.21	0.55	14	PASS
802.11a	CH177	5885	-1.19	0.57	14	PASS
802.11n(HT20)	CH169	5845	-3.47	-1.71	14	PASS
802.11n(HT20)	CH173	5865	-1.45	0.31	14	PASS
802.11n(HT20)	CH177	5885	-1.48	0.28	14	PASS
802.11n(HT40)	CH167	5835	-7.61	-5.85	14	PASS
802.11n(HT40)	CH175	5875	-4.69	-2.93	14	PASS
802.11ac(VHT20)	CH169	5845	-2.40	-0.64	14	PASS
802.11ac(VHT20)	CH173	5865	-0.51	1.25	14	PASS
802.11ac(VHT20)	CH177	5885	-0.41	1.35	14	PASS
802.11ac(VHT40)	CH167	5835	-9.07	-7.31	14	PASS
802.11ac(VHT40)	CH175	5875	-4.75	-2.99	14	PASS
802.11ac(VHT80)	CH171	5855	-5.96	-4.20	14	PASS
802.11ac(VHT160)	CH163	5815	-5.24	-3.48	14	PASS
802.11ax(HE20)	CH169	5845	-2.23	-0.47	14	PASS
802.11ax(HE20)	CH173	5865	0.35	2.11	14	PASS
802.11ax(HE20)	CH177	5885	-0.38	1.38	14	PASS
802.11ax(HE40)	CH167	5835	-5.79	-4.03	14	PASS
802.11ax(HE40)	CH175	5875	-3.98	-2.22	14	PASS
802.11ax(HE80)	CH171	5855	-5.75	-3.99	14	PASS
802.11ax(HE160)	CH163	5815	-13.73	-11.97	14	PASS



802.11be(EHT20)	CH169	5845	-2.31	-0.55	14	PASS
802.11be(EHT20)	CH173	5865	1.16	2.92	14	PASS
802.11be(EHT20)	CH177	5885	2.00	3.76	14	PASS
802.11be(EHT40)	CH167	5835	-5.54	-3.78	14	PASS
802.11be(EHT40)	CH175	5875	-2.81	-1.05	14	PASS
802.11be(EHT80)	CH171	5855	-6.74	-4.98	14	PASS
802.11be(EHT160)	CH163	5815	-12.85	-11.09	14	PASS

NOTE: E.I.R.P= PSD Result + antenna gain

Antenna 1 gain = 1.76dBi

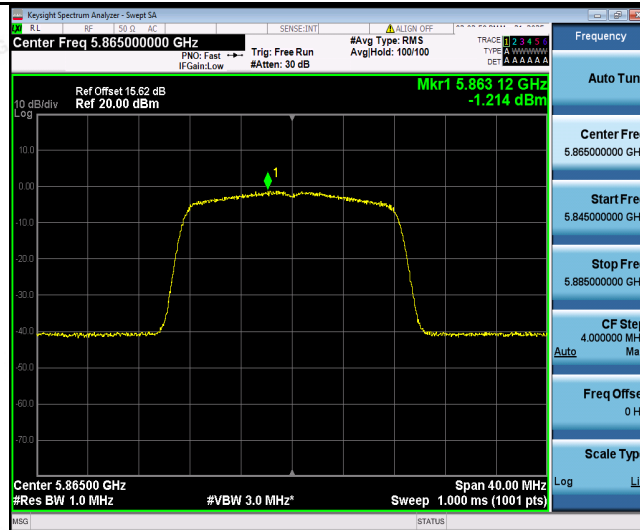
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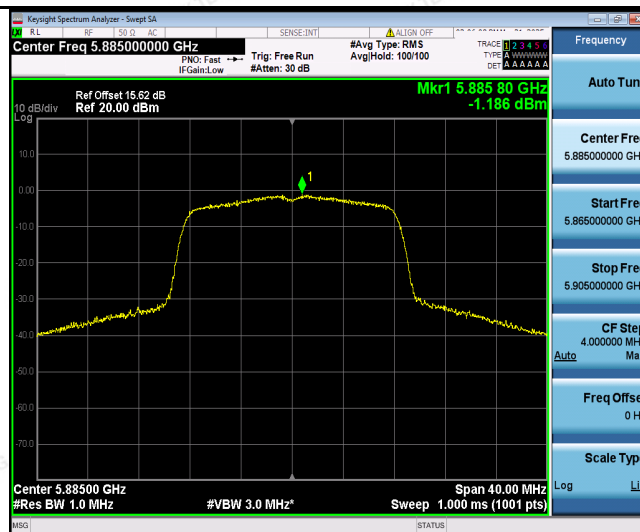
802.11a



5845



5865



5885

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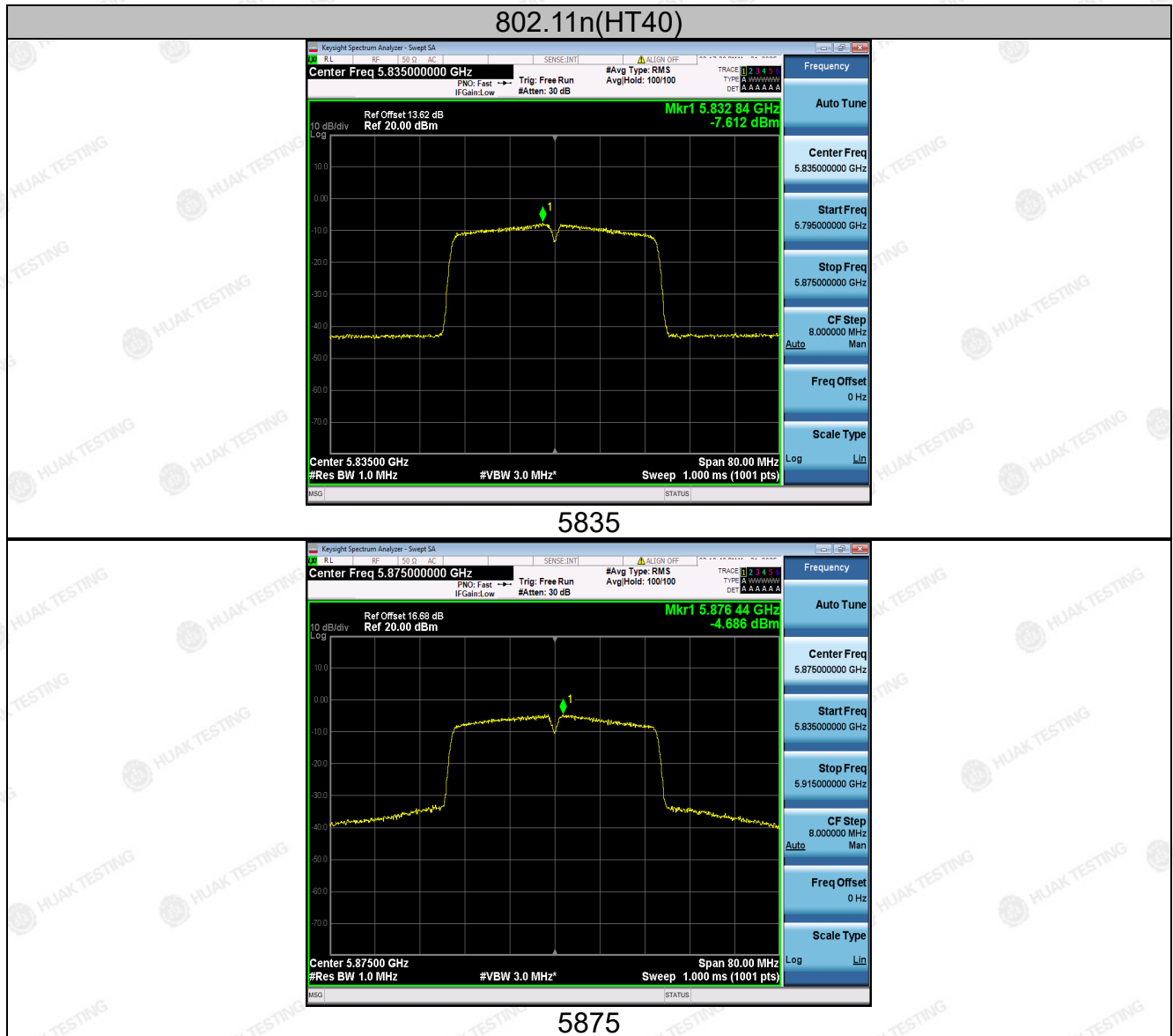
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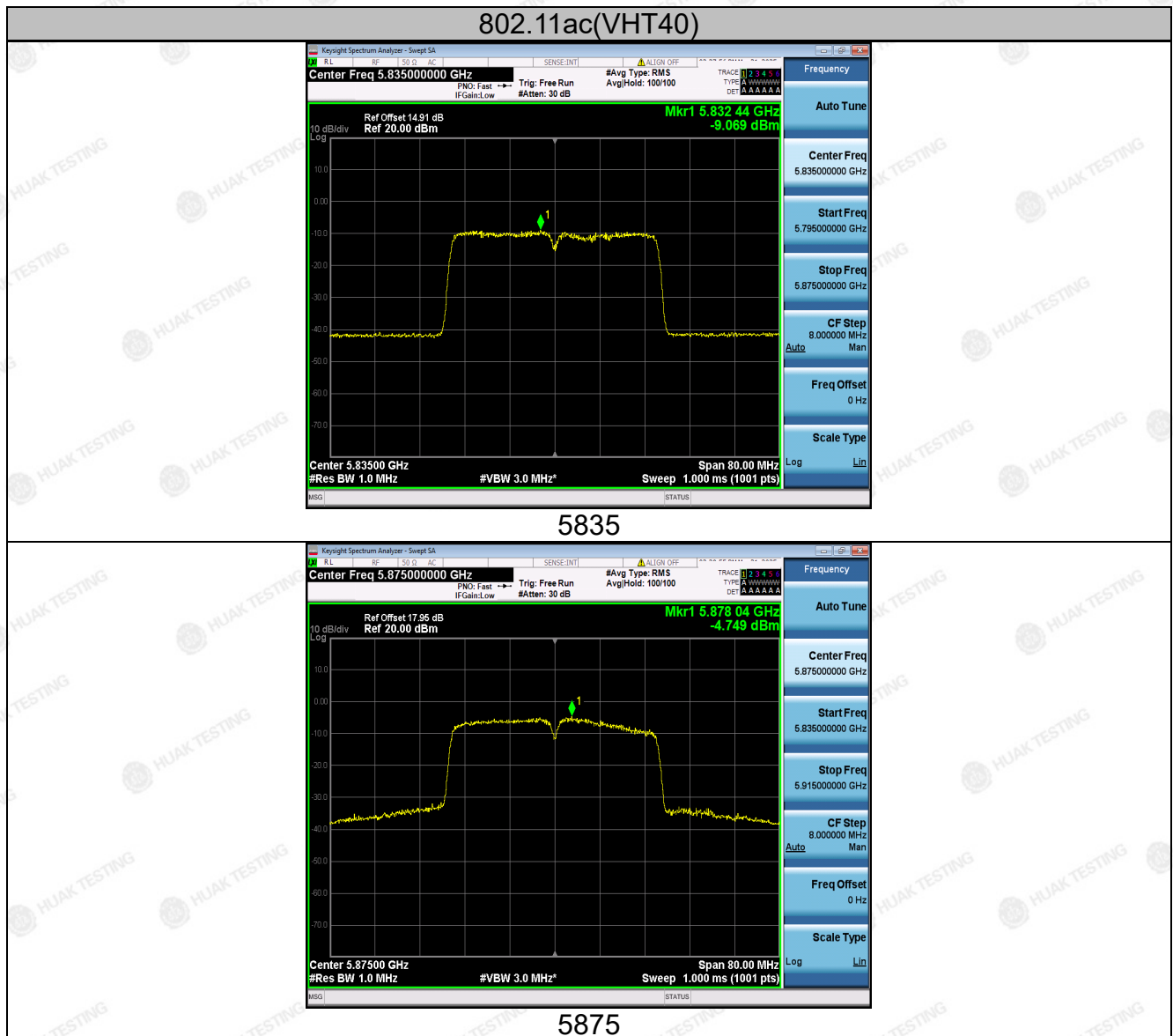


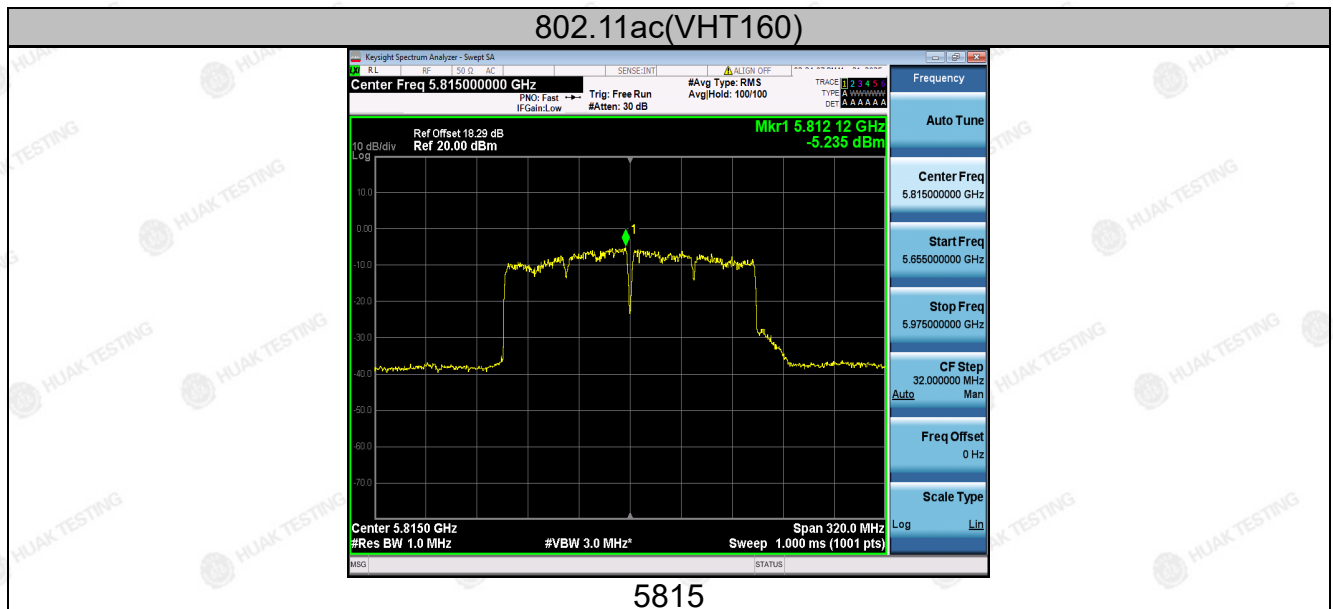
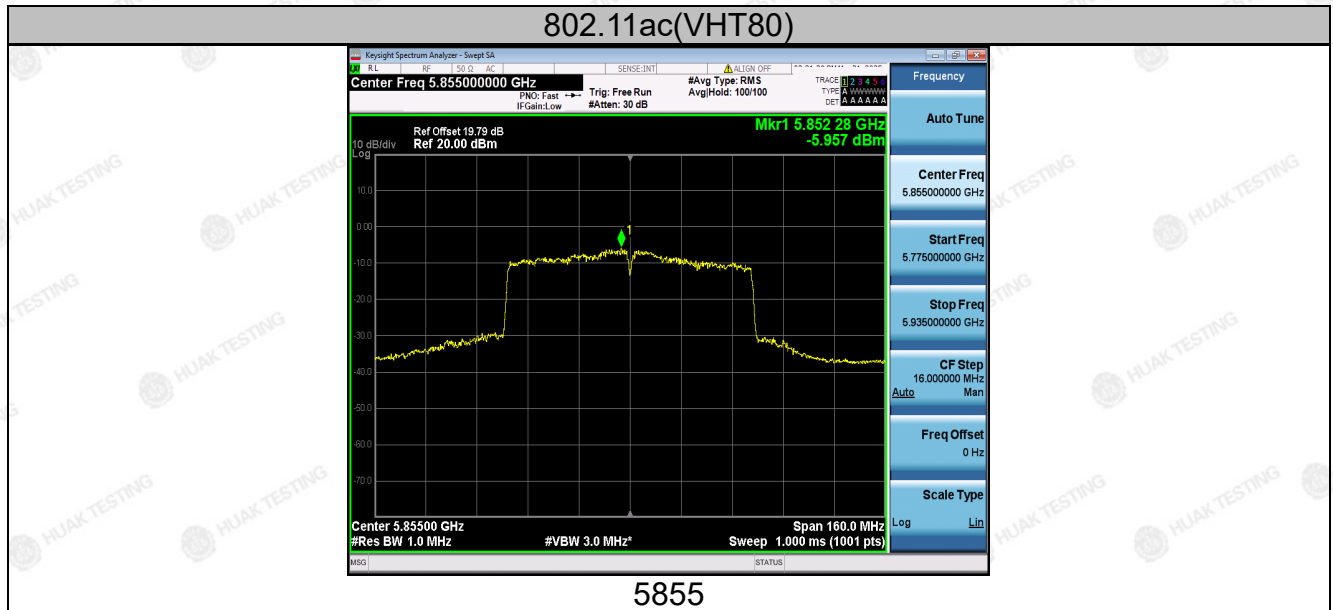


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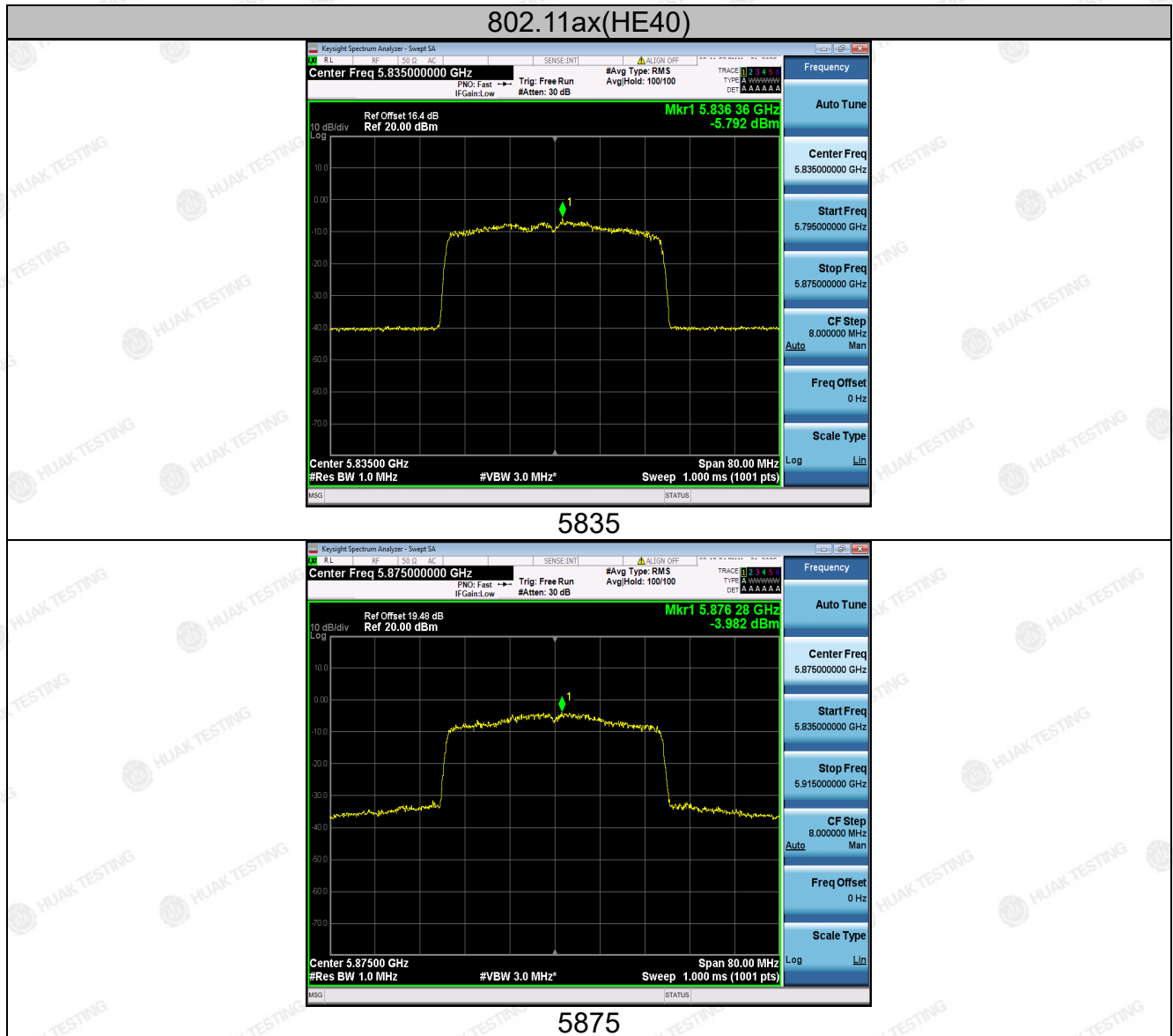


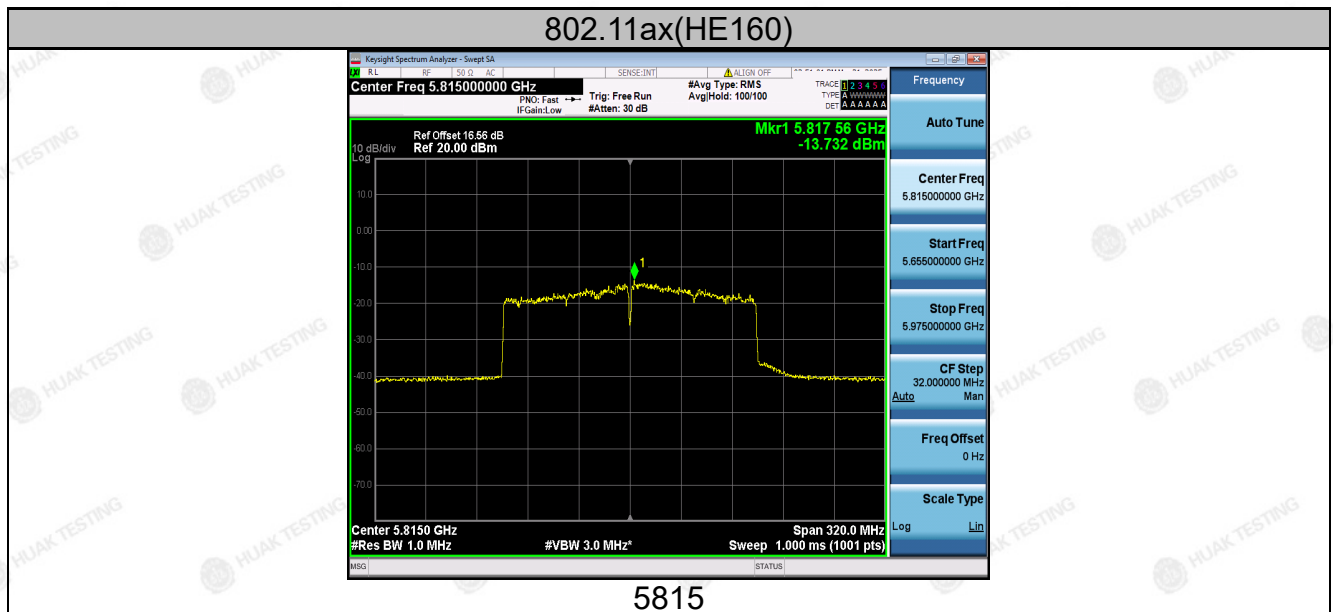
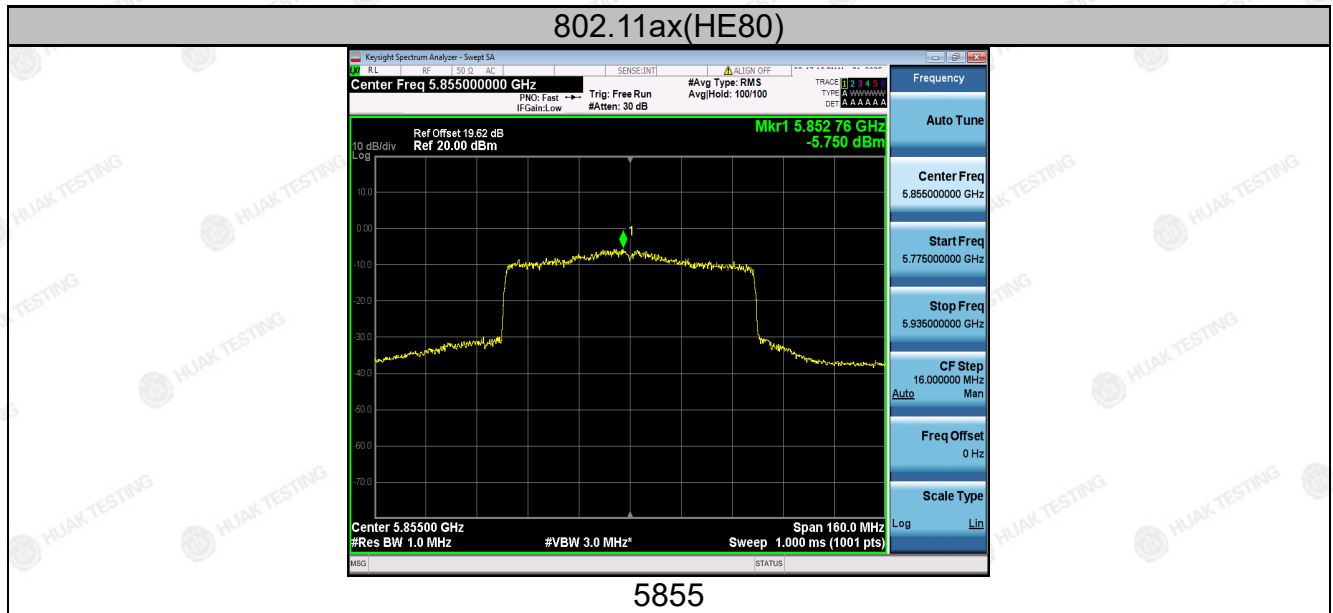


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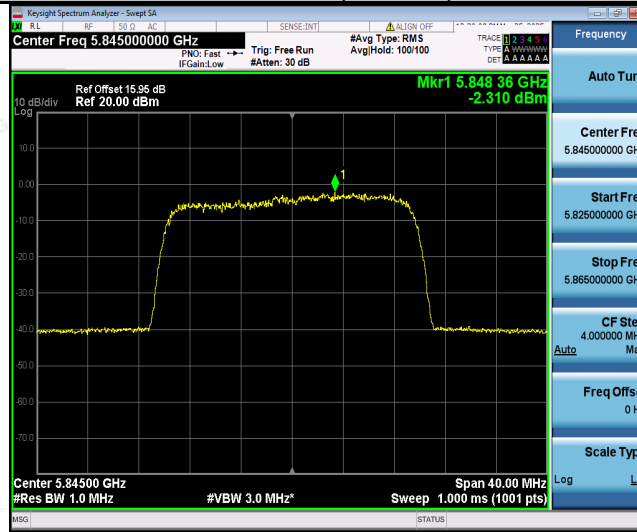
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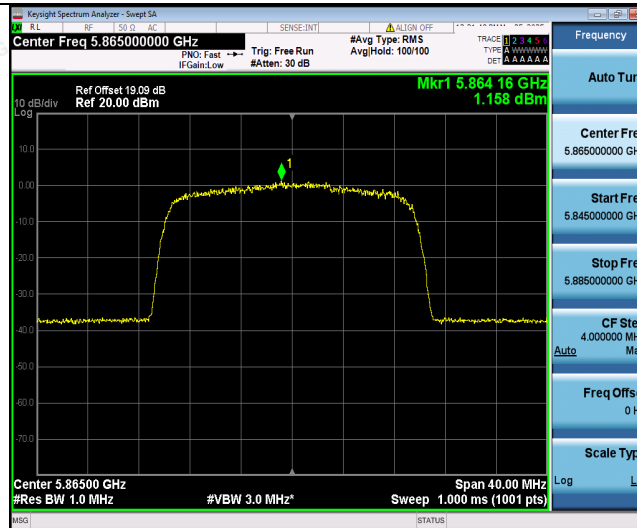




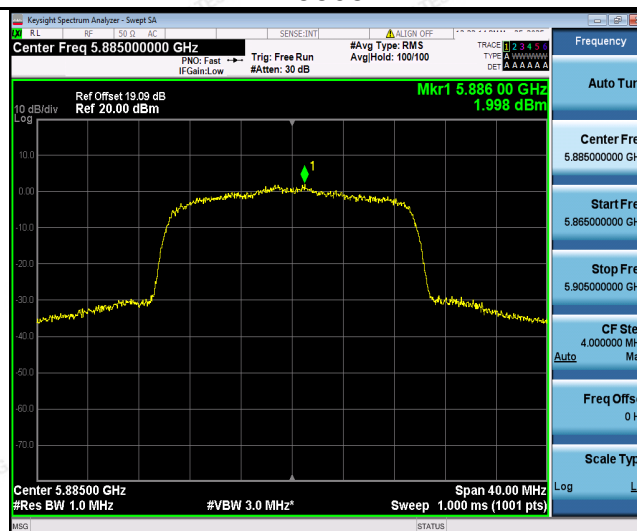
802.11be(EHT20)



5845



5865



5885



802.11be(EHT40)



5835



5875



802.11be(EHT80)



5855

802.11be(EHT160)



5815