



802.11be(EHT80)



5985



6145

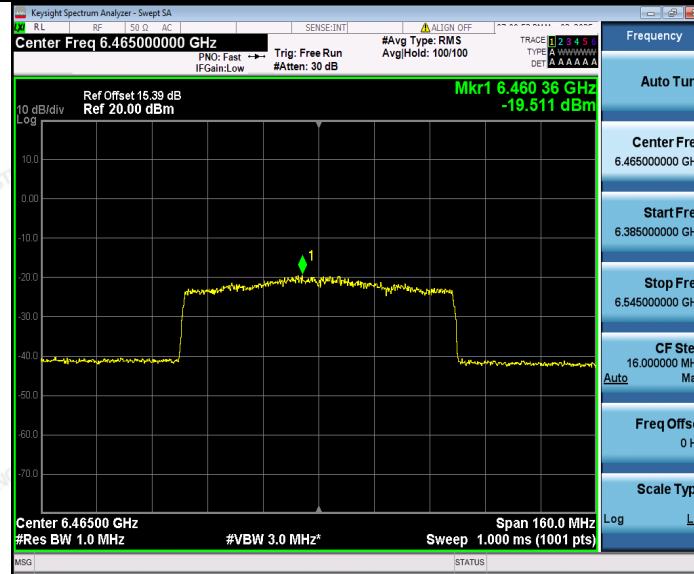


6385

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6465



6545

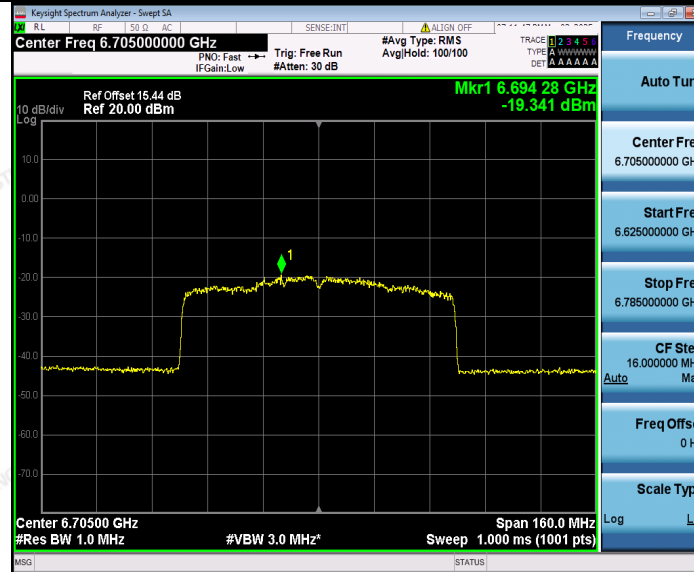


6625

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6705



6785



6865

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802.11be(EHT160)



6025



6185

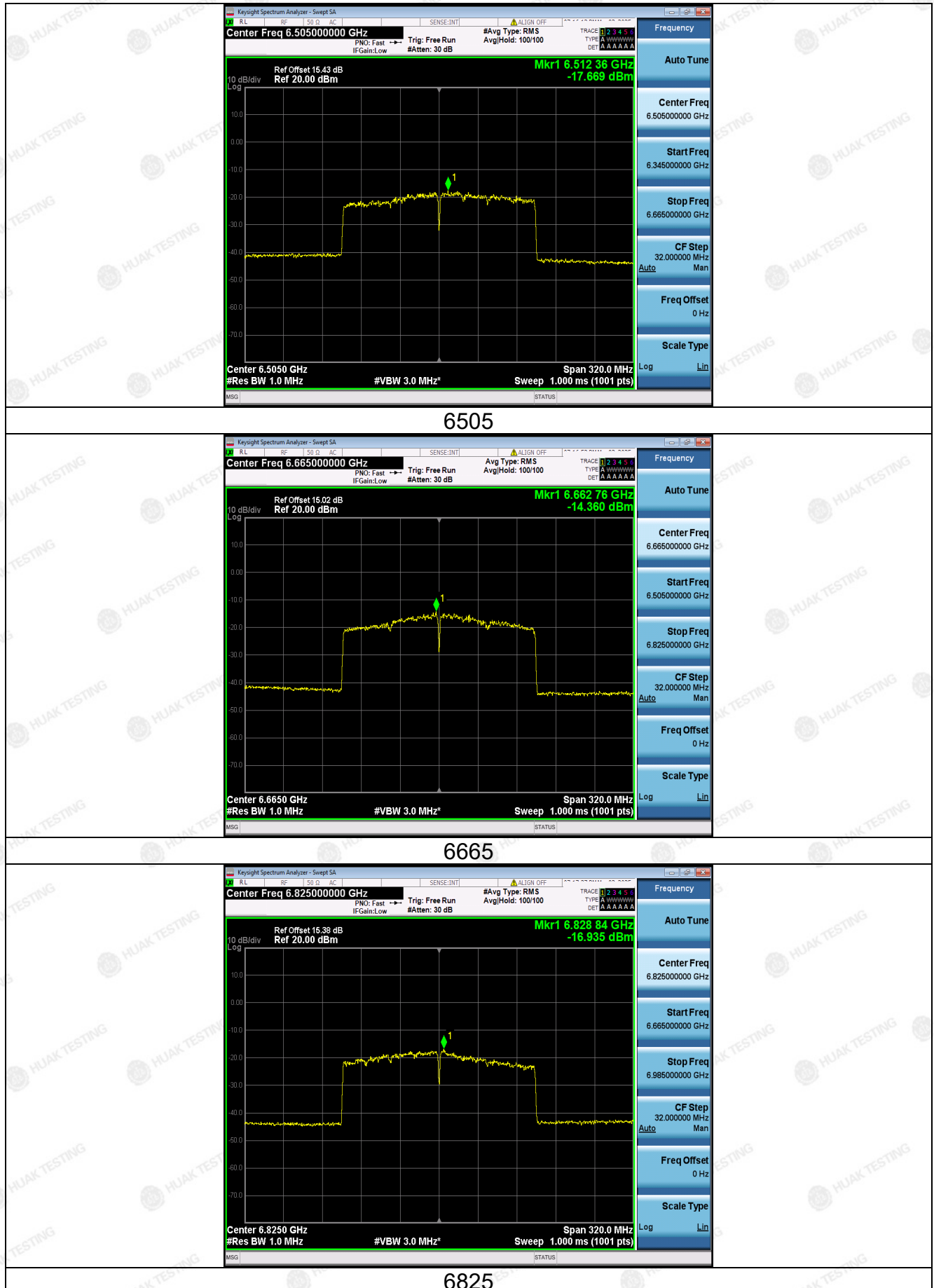


6345

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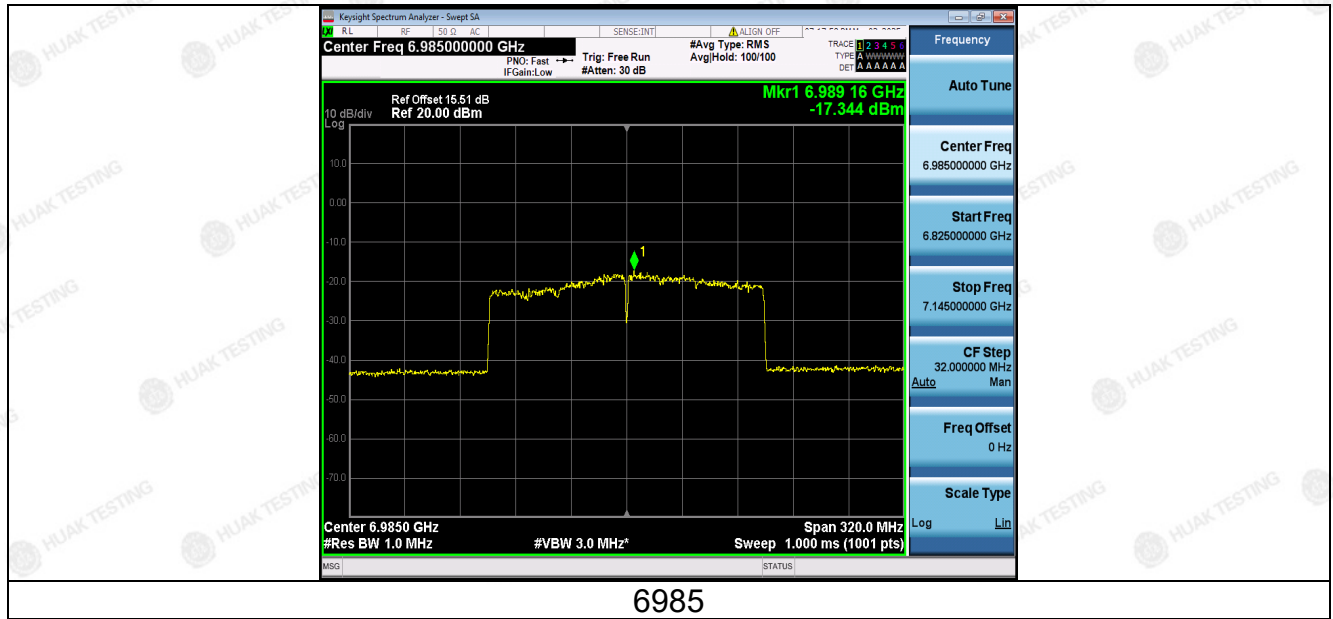
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For MIMO antenna port 1+antenna port 2

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test Channel	Frequency (MHz)	Power Density (dBm)	E.I.R.P (dBm)	Limit (dBm)	Result
802.11ax(HE20)	1	5955	-14.81	-11.58	-1.21	PASS
802.11ax(HE20)	45	6175	-15.96	-12.75	-1.21	PASS
802.11ax(HE20)	93	6415	-14.20	-11.03	-1.21	PASS
802.11ax(HE20)	97	6435	-14.36	-11.13	-1.21	PASS
802.11ax(HE20)	105	6475	-14.92	-11.67	-1.21	PASS
802.11ax(HE20)	113	6515	-14.14	-10.90	-1.21	PASS
802.11ax(HE20)	117	6535	-14.00	-10.76	-1.21	PASS
802.11ax(HE20)	153	6715	-16.71	-13.51	-1.21	PASS
802.11ax(HE20)	181	6855	-15.17	-11.91	-1.21	PASS
802.11ax(HE20)	185	6875	-15.13	-11.93	-1.21	PASS
802.11ax(HE20)	213	7015	-14.04	-10.87	-1.21	PASS
802.11ax(HE20)	233	7115	-12.89	-9.66	-1.21	PASS
802.11ax(HE40)	3	5965	-15.18	-11.91	-1.21	PASS
802.11ax(HE40)	43	6165	-16.60	-13.44	-1.21	PASS
802.11ax(HE40)	91	6405	-17.88	-14.70	-1.21	PASS
802.11ax(HE40)	99	6445	-16.17	-13.03	-1.21	PASS
802.11ax(HE40)	107	6485	-14.58	-11.39	-1.21	PASS
802.11ax(HE40)	115	6525	-14.30	-11.08	-1.21	PASS
802.11ax(HE40)	123	6565	-14.21	-10.99	-1.21	PASS
802.11ax(HE40)	155	6725	-13.77	-10.56	-1.21	PASS
802.11ax(HE40)	179	6845	-12.66	-9.39	-1.21	PASS
802.11ax(HE40)	187	6885	-14.49	-11.26	-1.21	PASS
802.11ax(HE40)	211	7005	-13.39	-10.18	-1.21	PASS
802.11ax(HE40)	227	7085	-11.00	-7.74	-1.21	PASS
802.11ax(HE80)	7	5985	-15.87	-12.65	-1.21	PASS

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802.11ax(HE80)	39	6145	-14.87	-11.61	-1.21	PASS
802.11ax(HE80)	87	6385	-14.98	-11.80	-1.21	PASS
802.11ax(HE80)	103	6465	-15.72	-12.57	-1.21	PASS
802.11ax(HE80)	119	6545	-15.15	-11.97	-1.21	PASS
802.11ax(HE80)	135	6625	-14.58	-11.41	-1.21	PASS
802.11ax(HE80)	151	6705	-12.51	-9.28	-1.21	PASS
802.11ax(HE80)	167	6785	-12.86	-9.59	-1.21	PASS
802.11ax(HE80)	183	6865	-14.58	-11.35	-1.21	PASS
802.11ax(HE80)	199	6945	-15.02	-11.86	-1.21	PASS
802.11ax(HE80)	215	7025	-13.00	-9.76	-1.21	PASS
802.11ax(HE160)	15	6025	-14.72	-11.46	-1.21	PASS
802.11ax(HE160)	47	6185	-18.64	-15.42	-1.21	PASS
802.11ax(HE160)	79	6345	-15.98	-12.78	-1.21	PASS
802.11ax(HE160)	111	6505	-15.45	-12.24	-1.21	PASS
802.11ax(HE160)	143	6665	-14.30	-11.05	-1.21	PASS
802.11ax(HE160)	175	6825	-15.82	-12.53	-1.21	PASS
802.11ax(HE160)	207	6985	-15.00	-11.80	-1.21	PASS
802.11be(HE20)	1	5955	-10.46	-7.16	-1.21	PASS
802.11be(HE20)	45	6175	-13.83	-10.57	-1.21	PASS
802.11be(HE20)	93	6415	-14.95	-11.78	-1.21	PASS
802.11be(HE20)	97	6435	-12.81	-9.63	-1.21	PASS
802.11be(HE20)	105	6475	-10.30	-7.15	-1.21	PASS
802.11be(HE20)	113	6515	-9.81	-6.67	-1.21	PASS
802.11be(HE20)	117	6535	-12.17	-8.95	-1.21	PASS
802.11be(HE20)	153	6715	-11.17	-7.92	-1.21	PASS
802.11be(HE20)	181	6855	-10.21	-7.05	-1.21	PASS
802.11be(HE20)	185	6875	-10.65	-7.46	-1.21	PASS
802.11be(HE20)	213	7015	-12.07	-8.80	-1.21	PASS
802.11be(HE20)	233	7115	-10.27	-6.98	-1.21	PASS

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802.11be(HE40)	3	5965	-11.23	-7.96	-1.21	PASS
802.11be(HE40)	43	6165	-12.81	-9.60	-1.21	PASS
802.11be(HE40)	91	6405	-13.18	-10.08	-1.21	PASS
802.11be(HE40)	99	6445	-12.94	-9.78	-1.21	PASS
802.11be(HE40)	107	6485	-10.05	-6.84	-1.21	PASS
802.11be(HE40)	115	6525	-9.87	-6.66	-1.21	PASS
802.11be(HE40)	123	6565	-9.30	-6.08	-1.21	PASS
802.11be(HE40)	155	6725	-9.92	-6.70	-1.21	PASS
802.11be(HE40)	179	6845	-11.31	-8.21	-1.21	PASS
802.11be(HE40)	187	6885	-12.44	-9.33	-1.21	PASS
802.11be(HE40)	211	7005	-10.85	-7.67	-1.21	PASS
802.11be(HE40)	227	7085	-9.87	-6.72	-1.21	PASS
802.11be(HE80)	7	5985	-12.95	-9.65	-1.21	PASS
802.11be(HE80)	39	6145	-15.40	-12.08	-1.21	PASS
802.11be(HE80)	87	6385	-14.36	-11.22	-1.21	PASS
802.11be(HE80)	103	6465	-13.99	-10.87	-1.21	PASS
802.11be(HE80)	119	6545	-12.63	-9.45	-1.21	PASS
802.11be(HE80)	135	6625	-11.11	-7.92	-1.21	PASS
802.11be(HE80)	151	6705	-14.21	-11.08	-1.21	PASS
802.11be(HE80)	167	6785	-15.73	-12.53	-1.21	PASS
802.11be(HE80)	183	6865	-14.59	-11.47	-1.21	PASS
802.11be(HE80)	199	6945	-14.71	-11.61	-1.21	PASS
802.11be(HE80)	215	7025	-14.19	-11.02	-1.21	PASS
802.11be(HE160)	15	6025	-17.22	-13.91	-1.21	PASS
802.11be(HE160)	47	6185	-16.00	-12.68	-1.21	PASS
802.11be(HE160)	79	6345	-14.81	-11.69	-1.21	PASS
802.11be(HE160)	111	6505	-13.69	-10.53	-1.21	PASS
802.11be(HE160)	143	6665	-12.22	-8.98	-1.21	PASS
802.11be(HE160)	175	6825	-14.95	-11.71	-1.21	PASS
802.11be(HE160)	207	6985	-13.54	-10.37	-1.21	PASS

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**Note:**

1. According to KDB 662911, Result power = $10\log(10^{(\text{ant1}/10)} + 10^{(\text{ant2}/10)})$.
2. Result unit: W, The end result is converted to units of dBm.
Limit = $-1\text{dBm} - (\text{direction gain} - 6\text{dBi}) = -1.21\text{dBm}$

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11a/ax/be for MIMO mode, not support 802.11 a for MIMO mode.



4.6 In-Band Emission Mask

4.6.1 Limit of In-Band Emission Mask Measurement

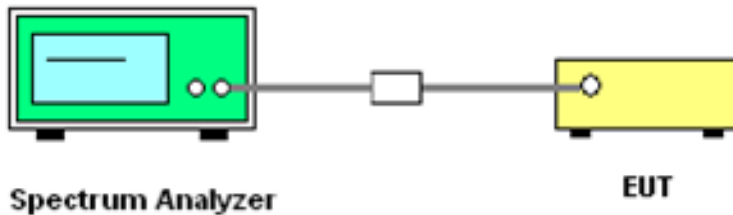
Test Item	Frequency (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1}: The power spectral density must be suppressed by "x" dB

^{*2}: At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression.

^{*3}: at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.6.2 Test Setup



4.6.3 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).

4.6.4 Test Result

Pass

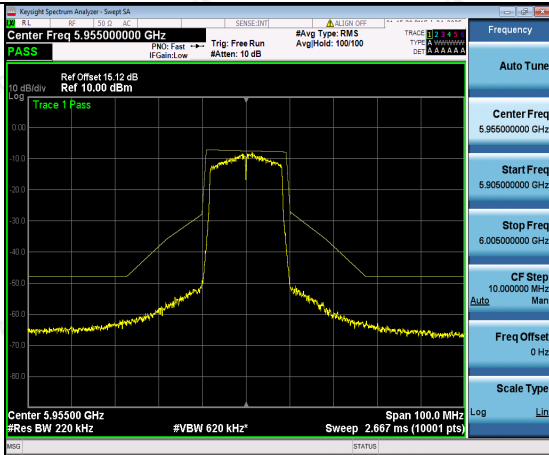


4.6.5 Test Data

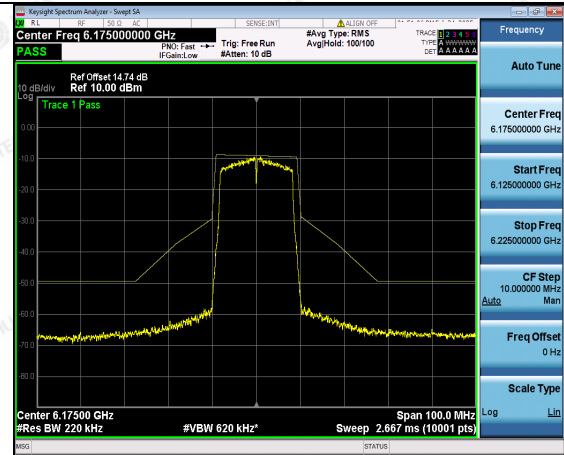
ANT. 1

802.11a

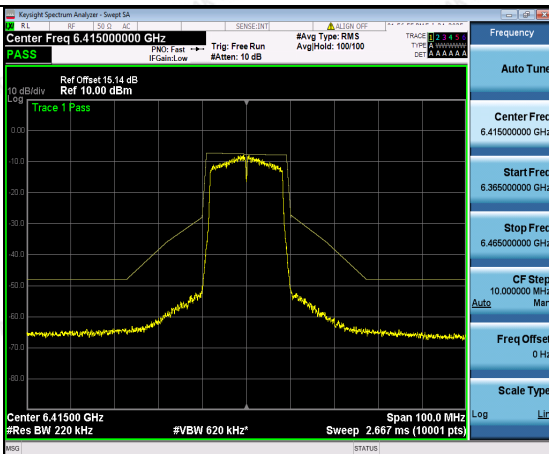
CH1



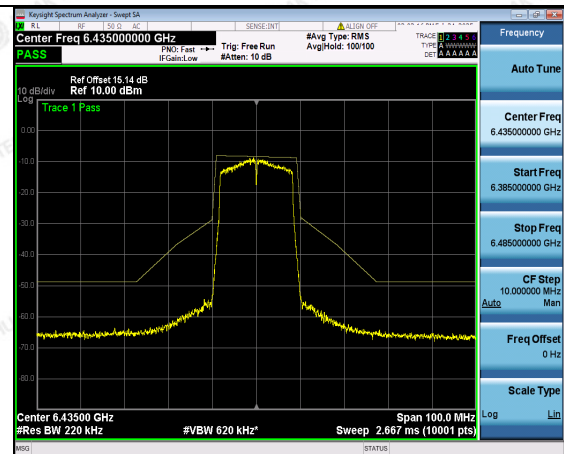
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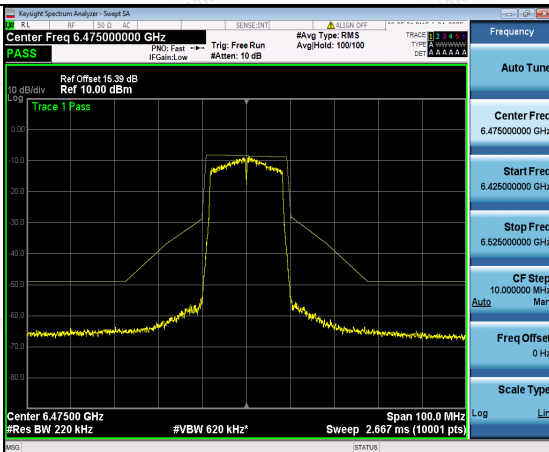
CH93



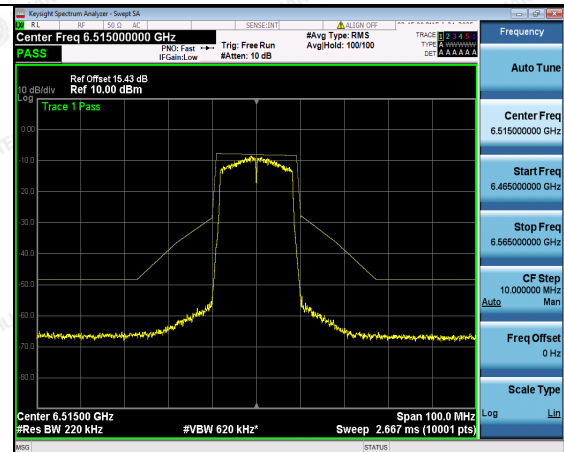
CH97



CH105

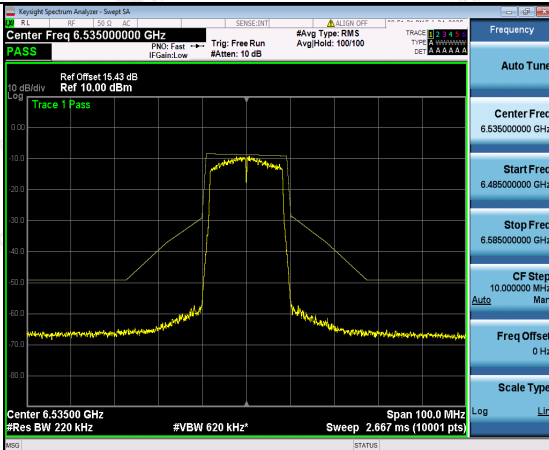


CH113

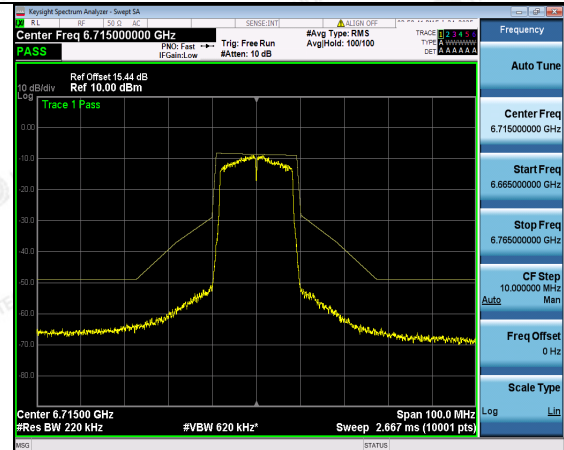




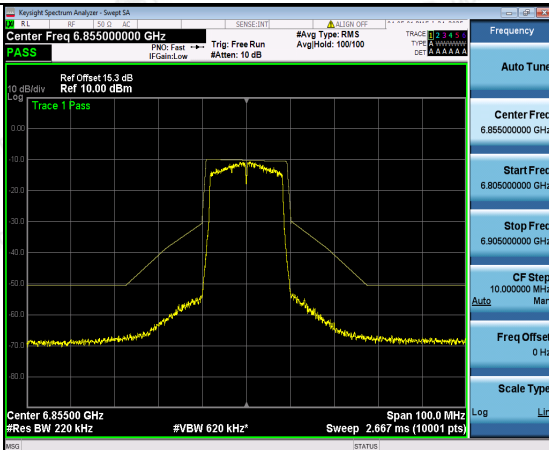
CH117



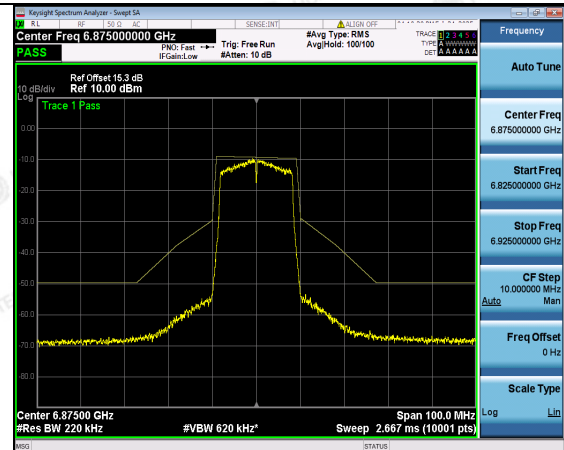
CH153



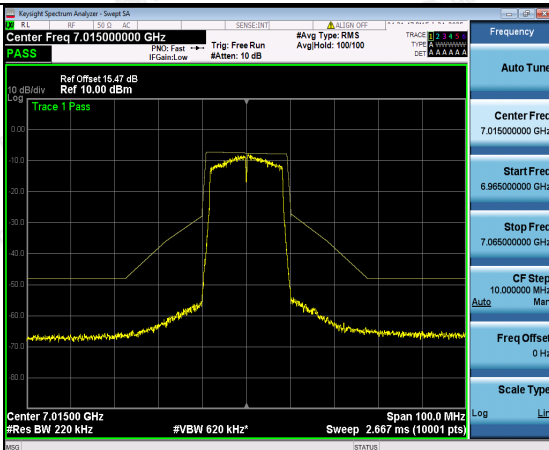
CH181



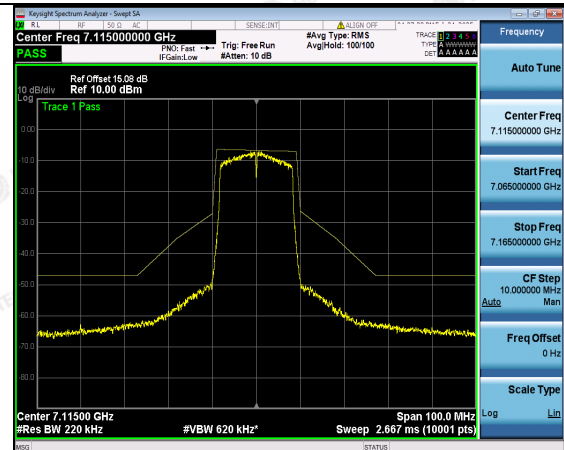
CH185



CH213



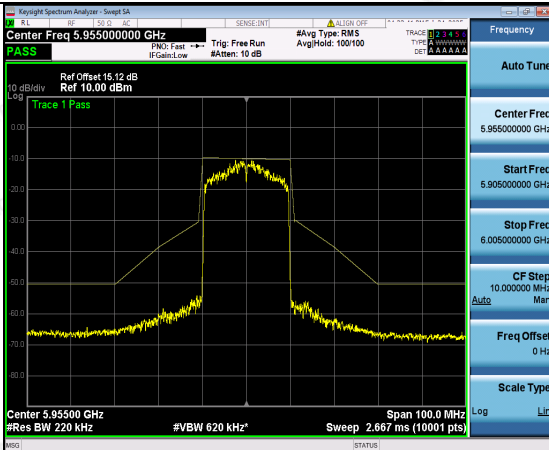
CH233



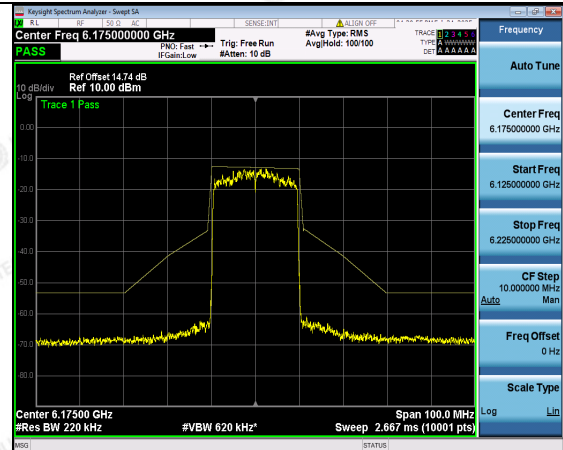


802.11ax (HE20)

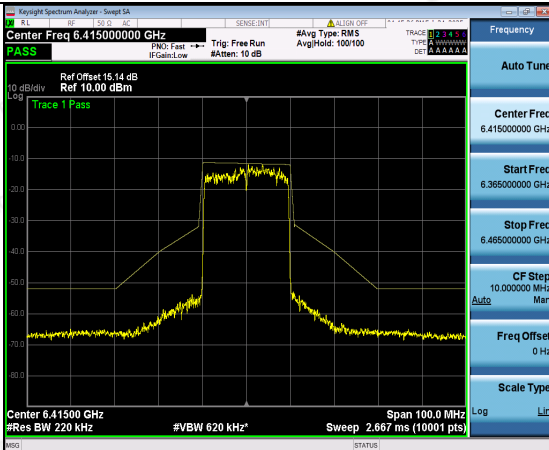
CH1



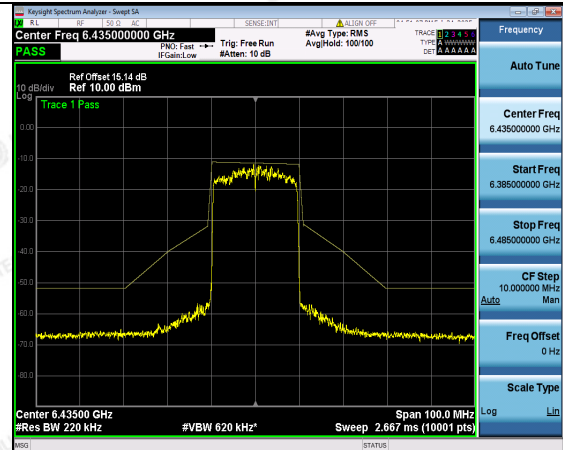
CH45



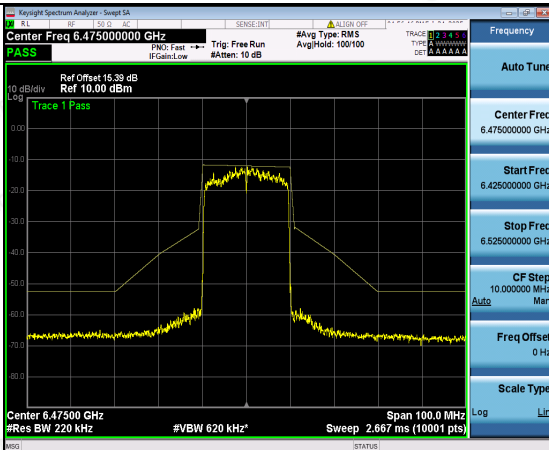
CH93



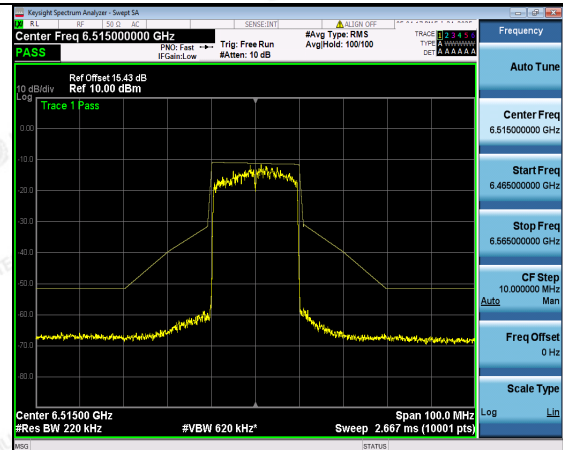
CH97



CH105

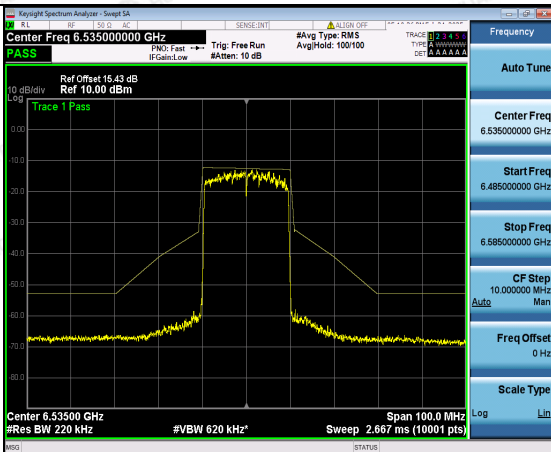


CH113

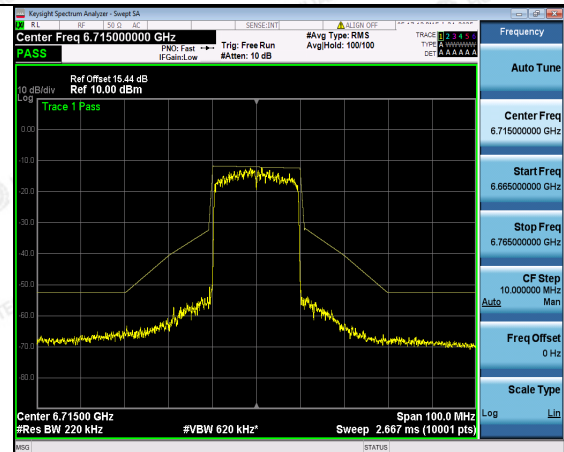




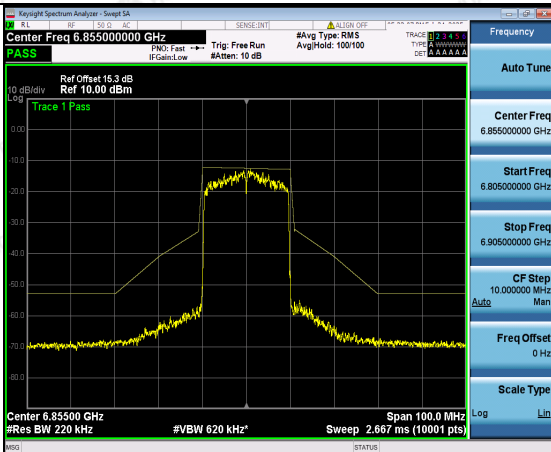
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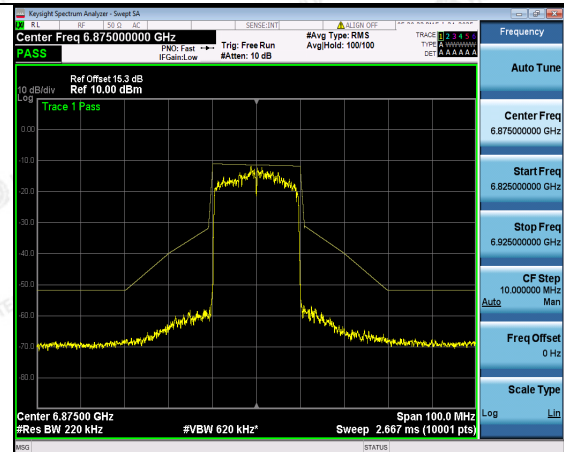
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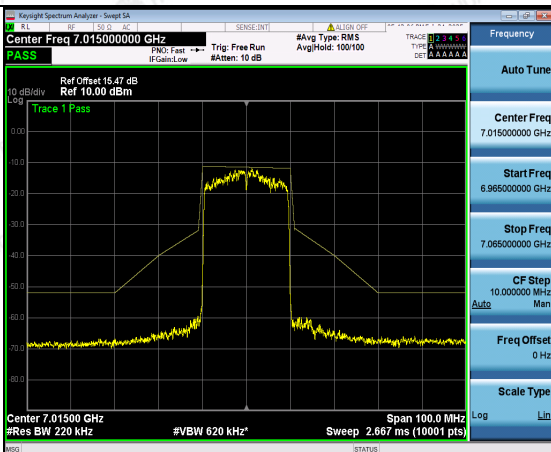
CH181



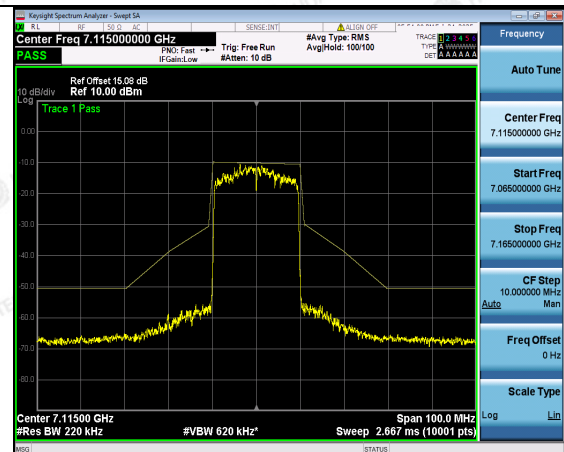
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CH213



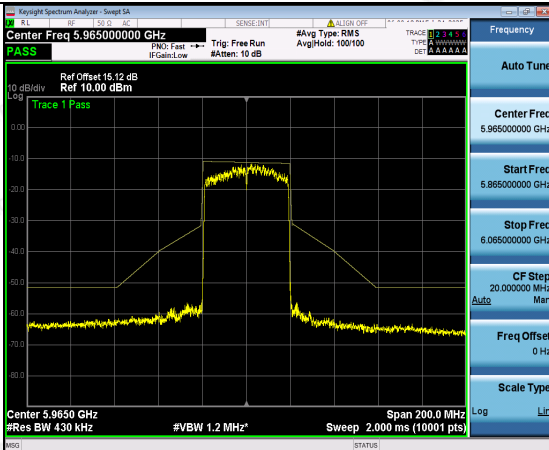
CH233



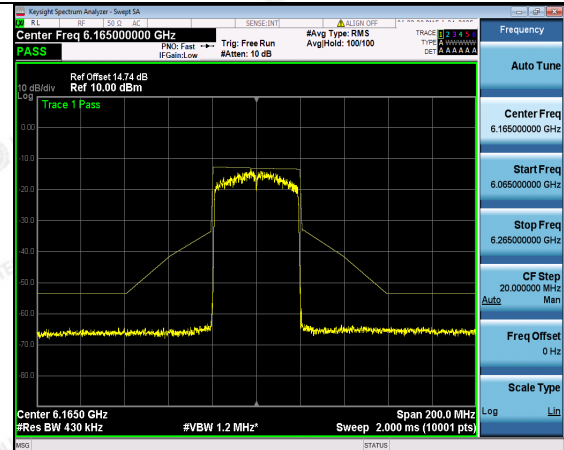


802.11ax (HE40)

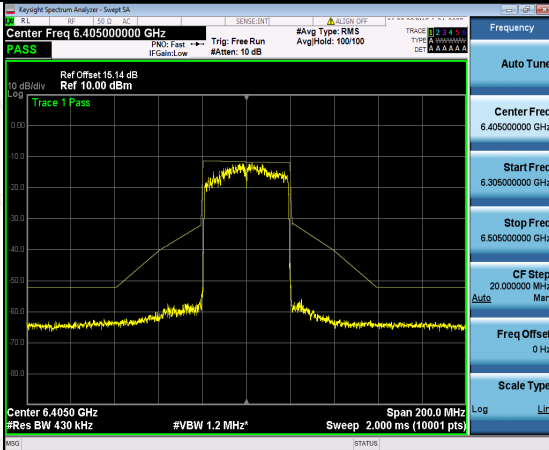
CH3



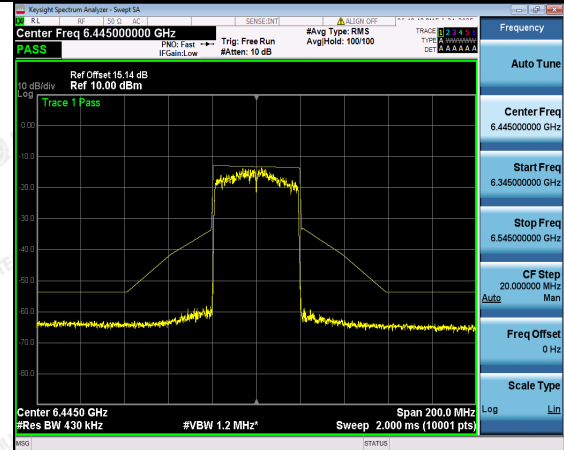
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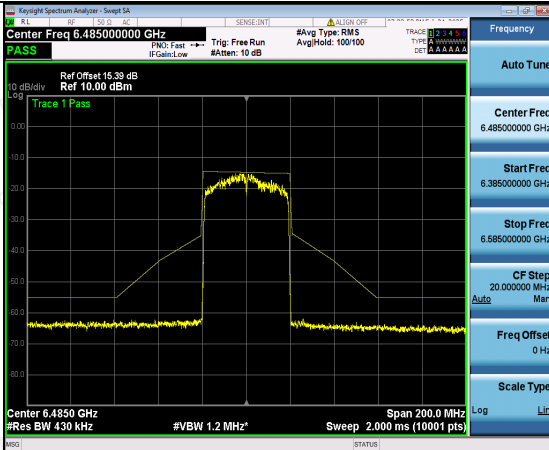
CH91



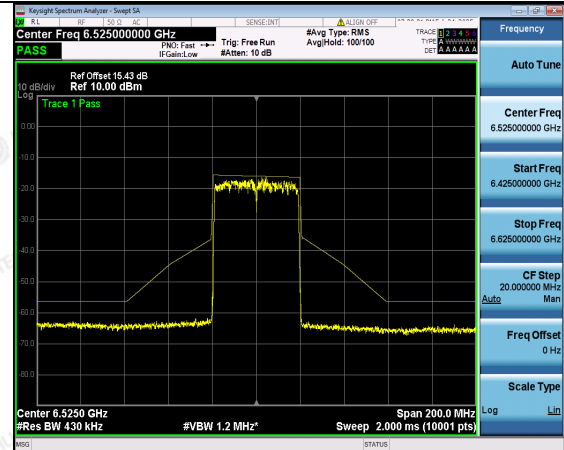
CH99



CH107

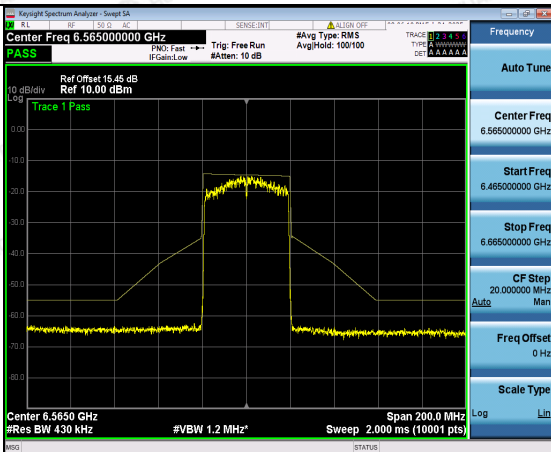


CH115

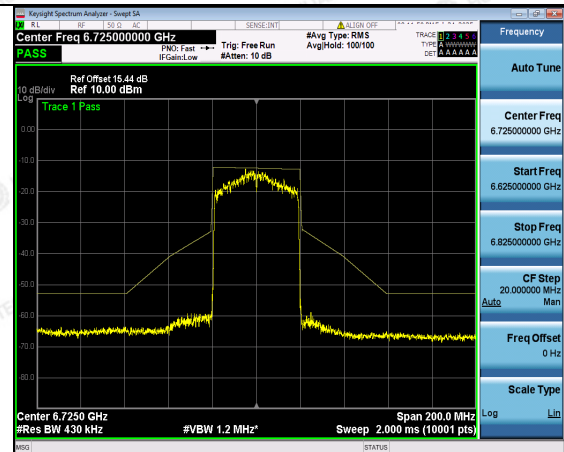




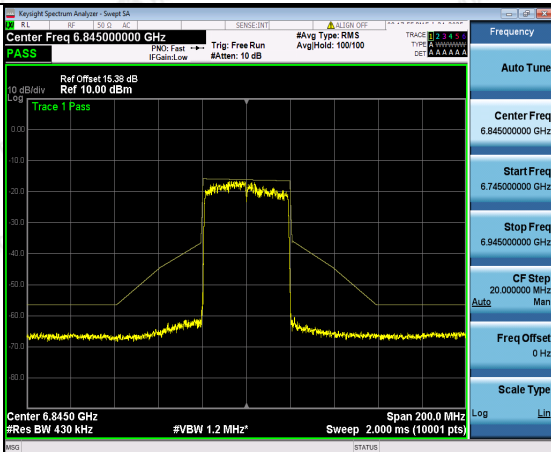
CH123



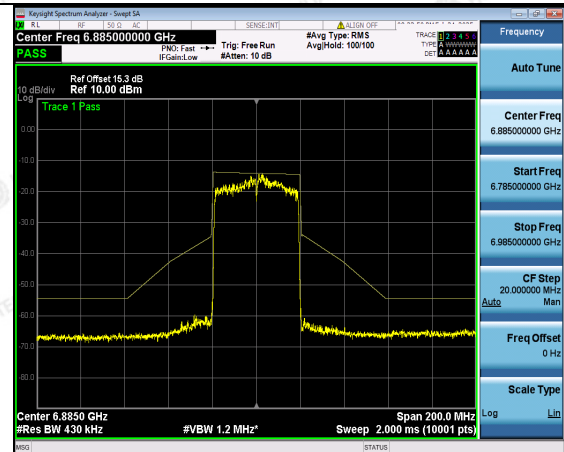
CH155



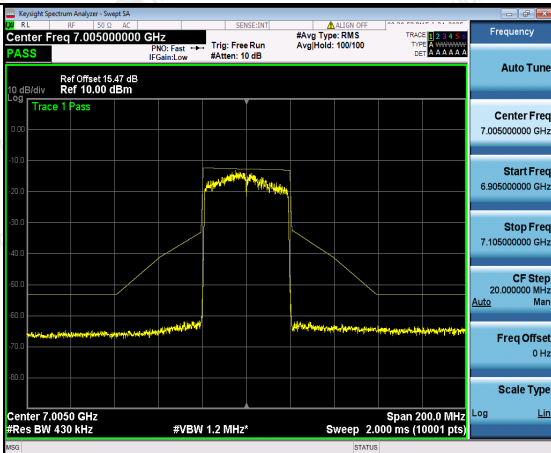
CH179



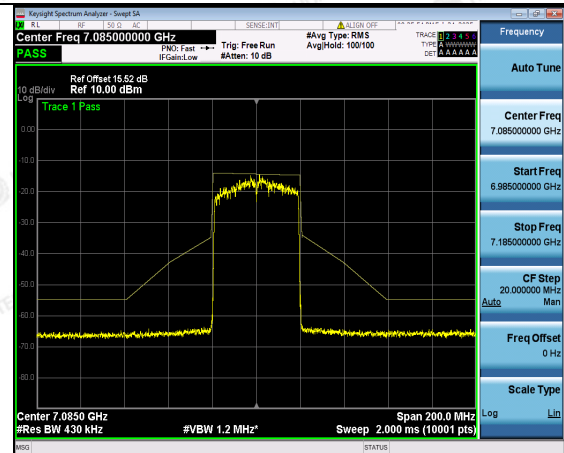
CH187



CH211



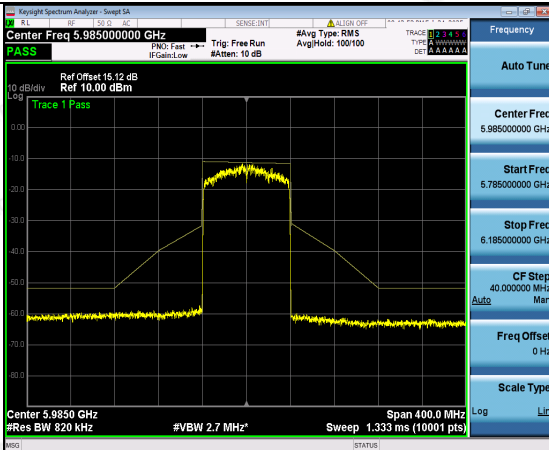
CH227



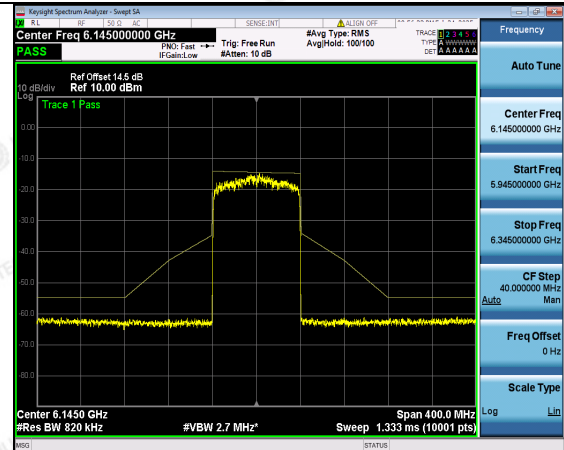


802.11ax (HE80)

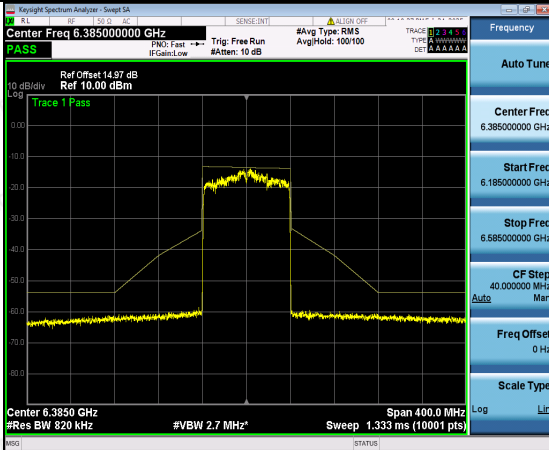
CH7



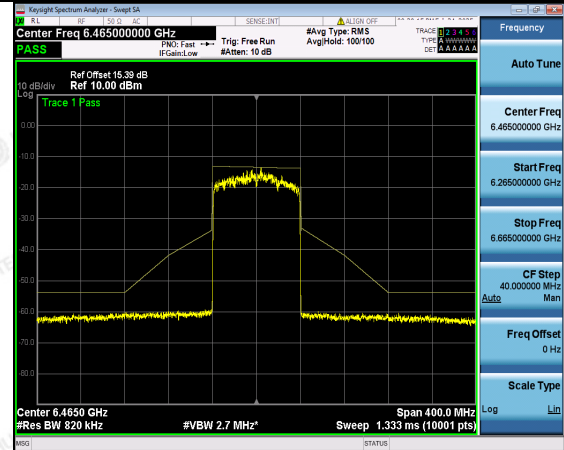
CH39



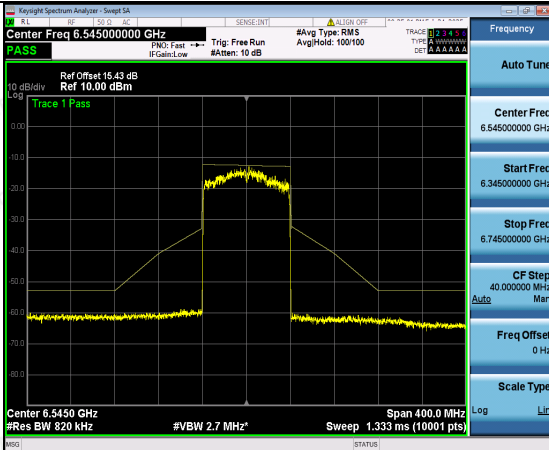
CH87



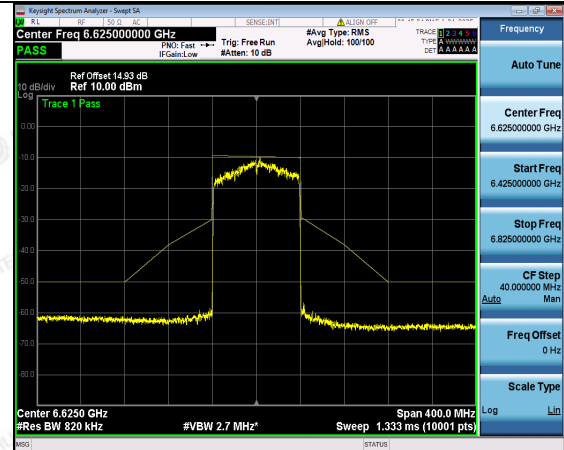
CH103



CH119

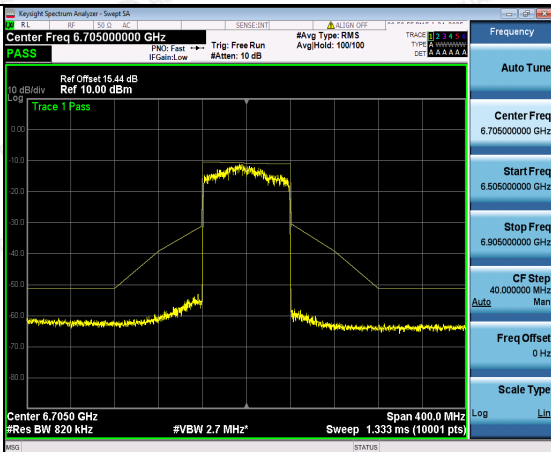


CH135

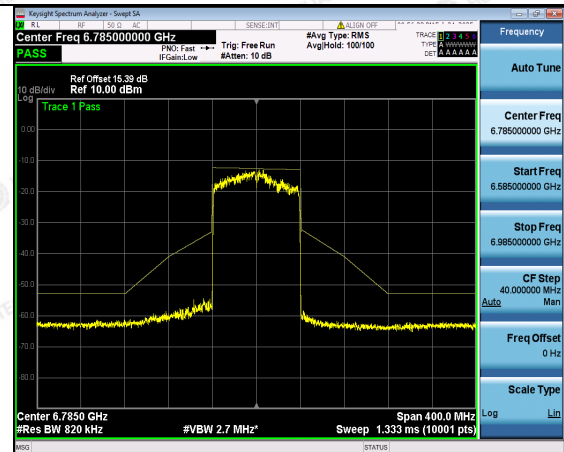




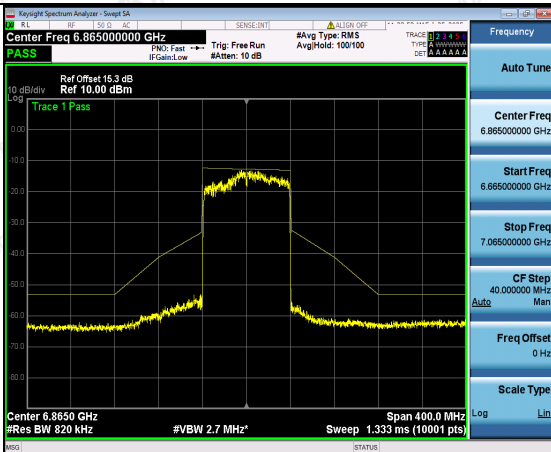
CH151



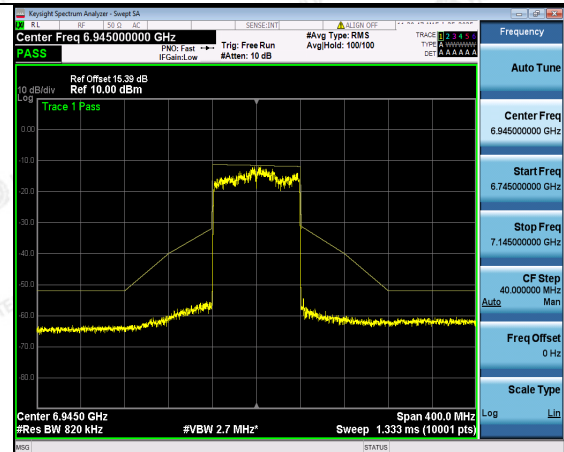
CH167



CH183



CH199



CH215





802.11ax (HE160)

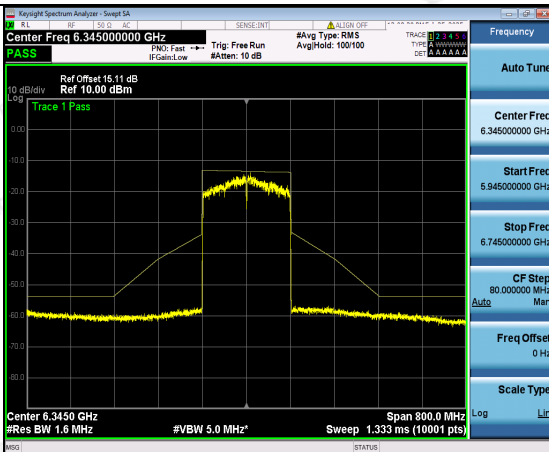
CH15



CH47



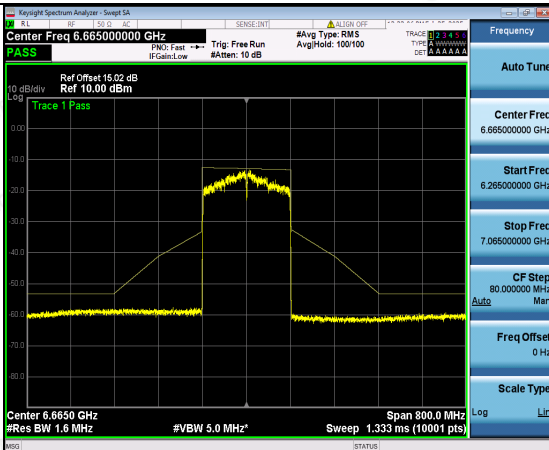
CH79



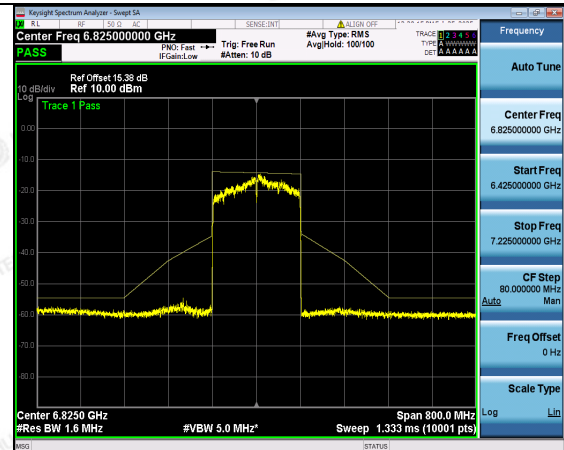
CH111

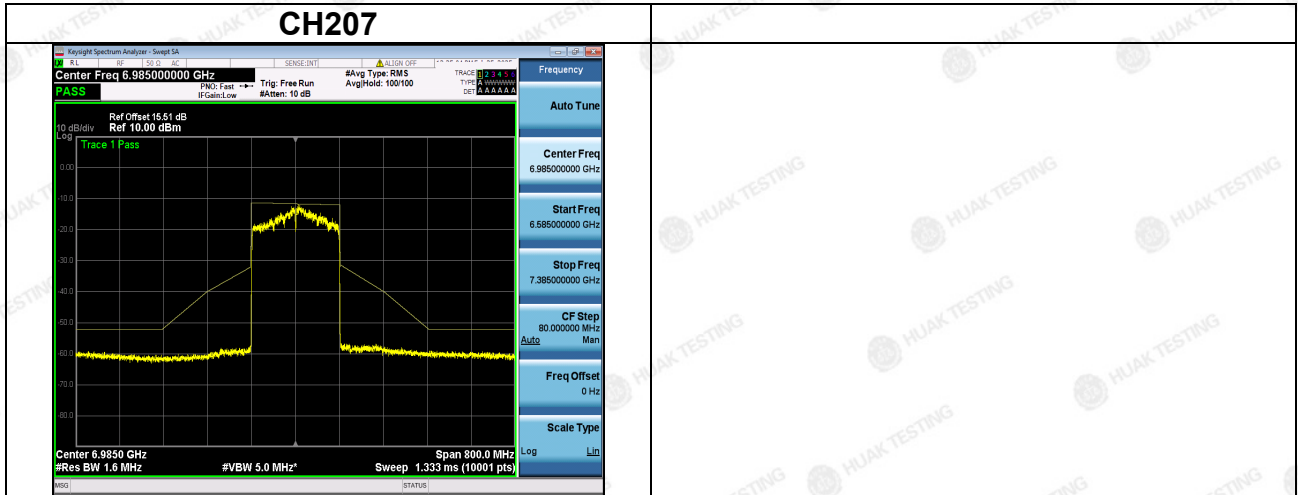


CH143



CH175





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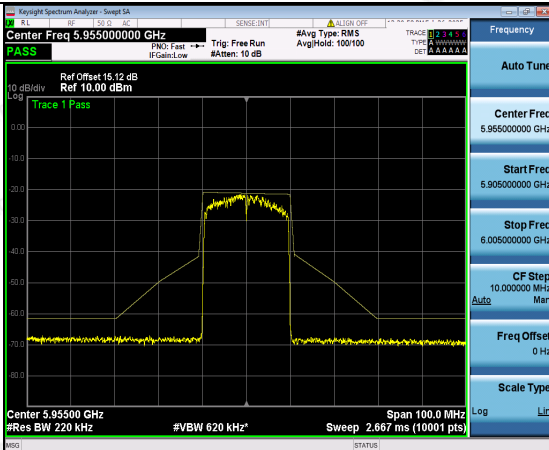
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

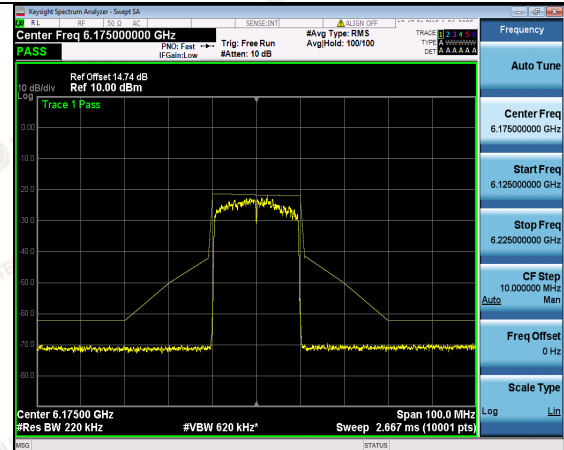


802.11be (HE20)

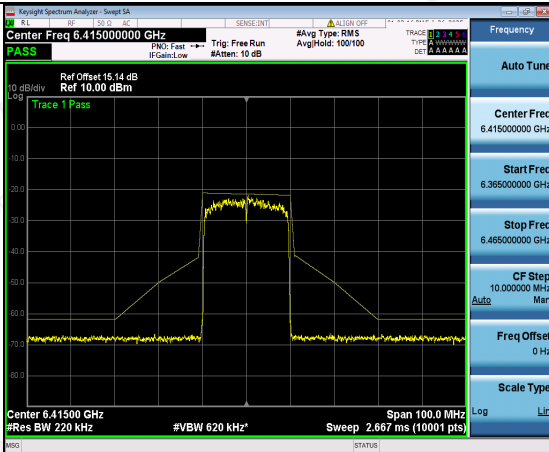
CH1



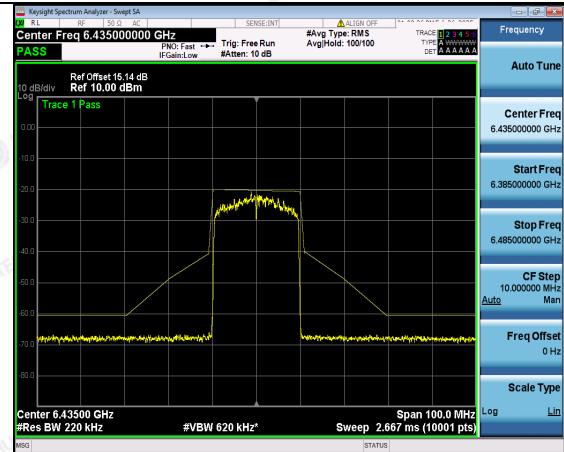
CH45



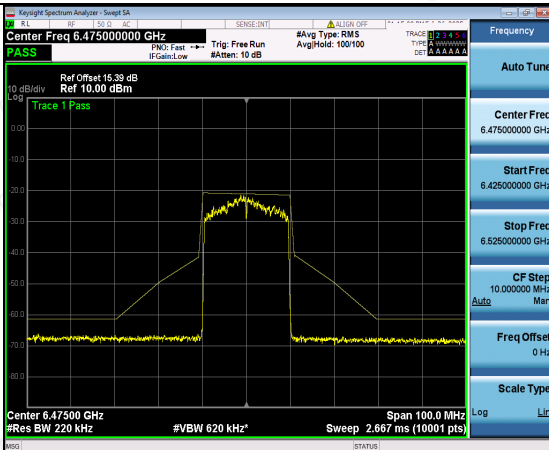
CH93



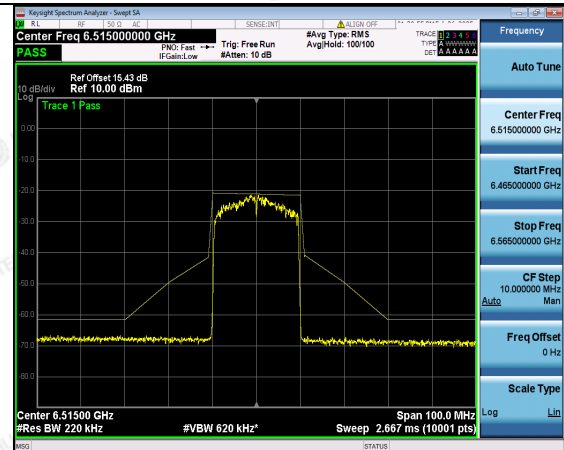
CH97



CH105

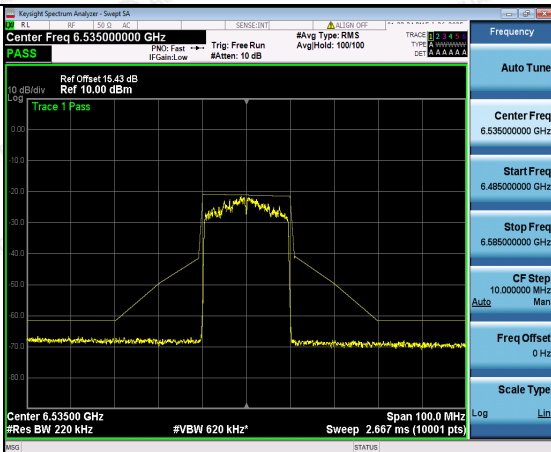


CH113

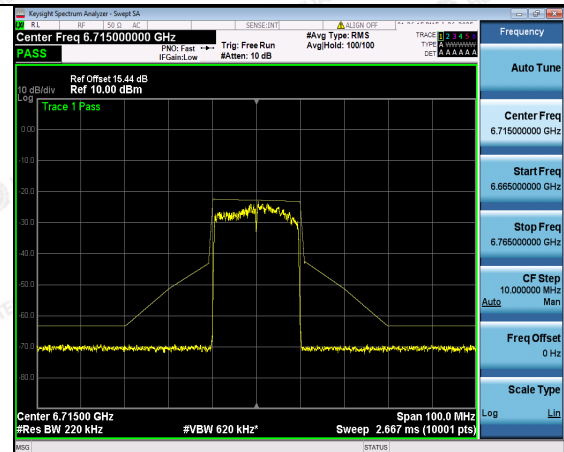




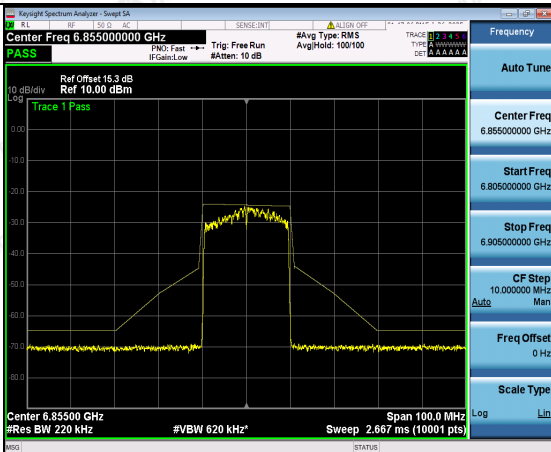
CH117



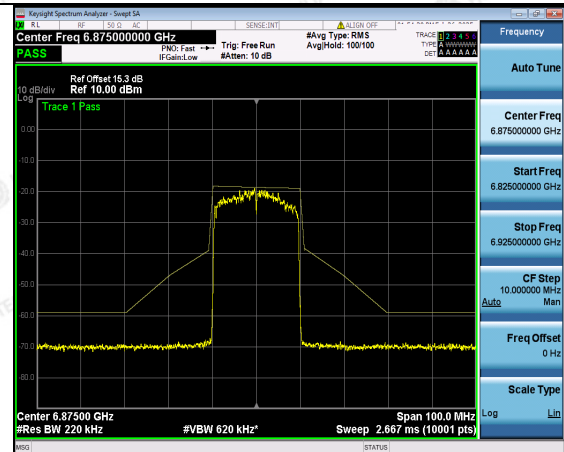
CH153



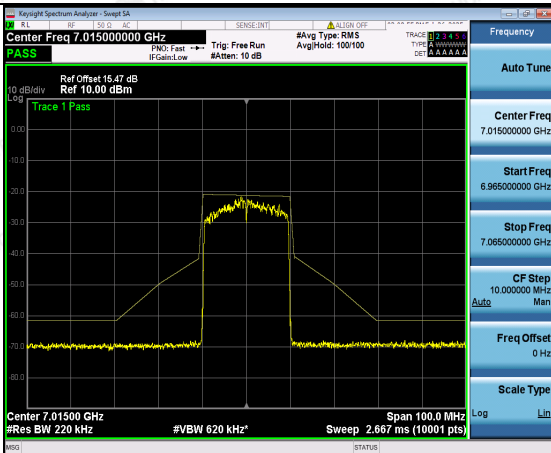
CH181



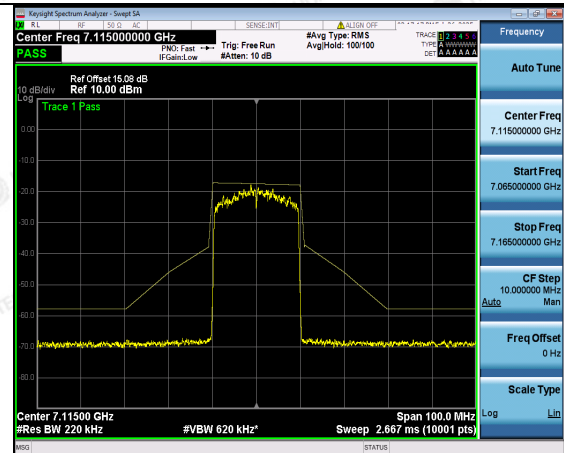
CH185



CH213



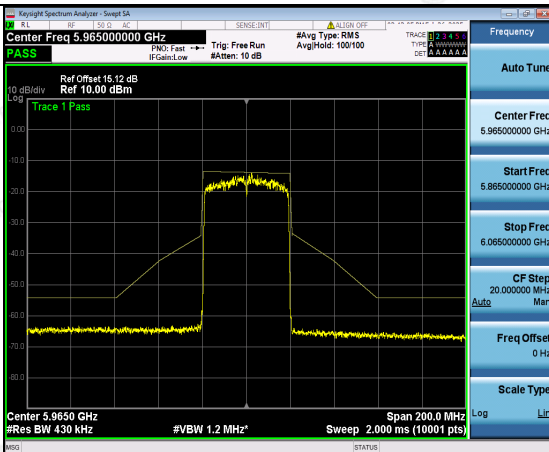
CH233



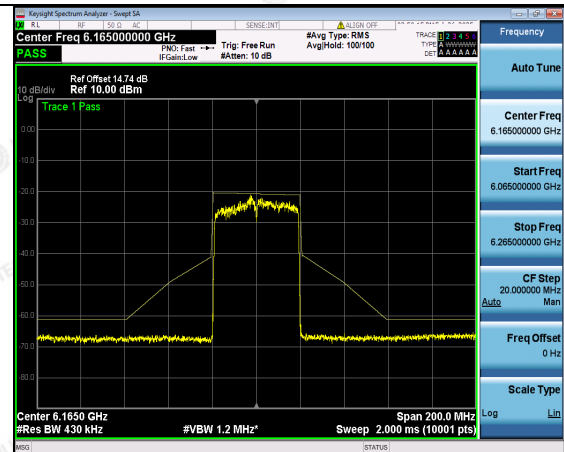


802.11be (HE40)

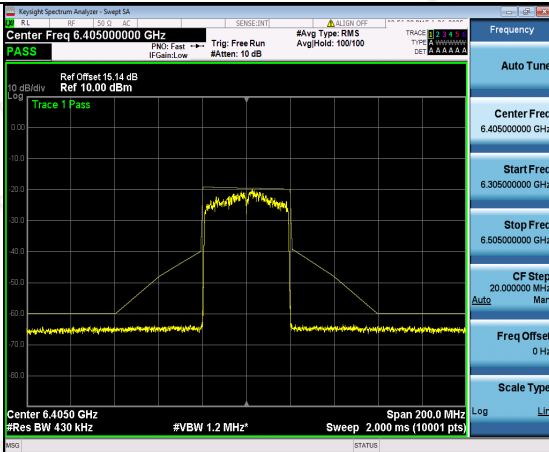
CH3



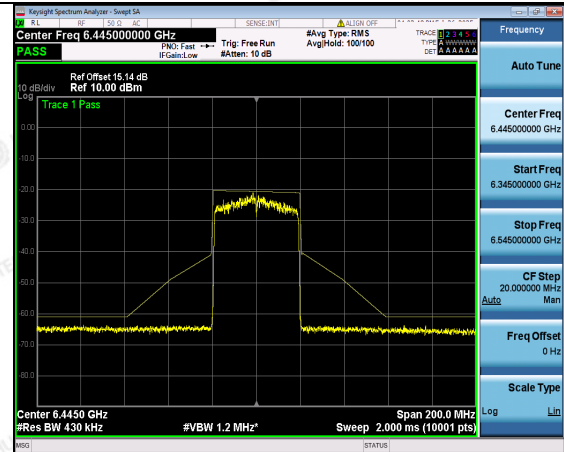
CH43



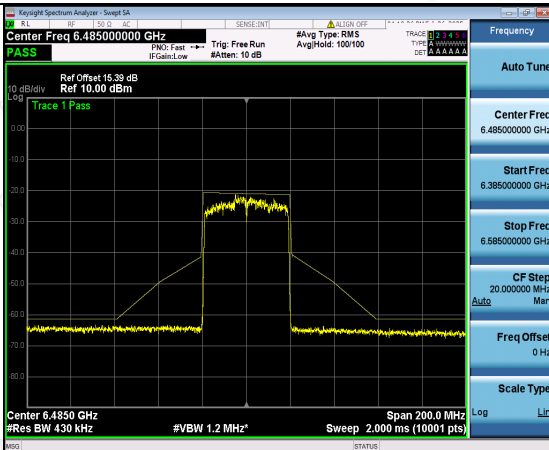
CH91



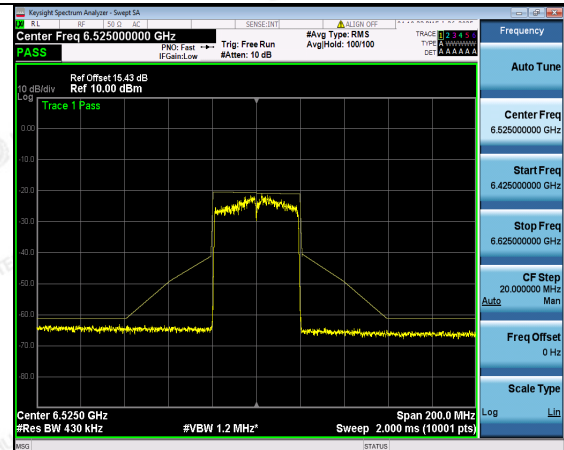
CH99



CH107

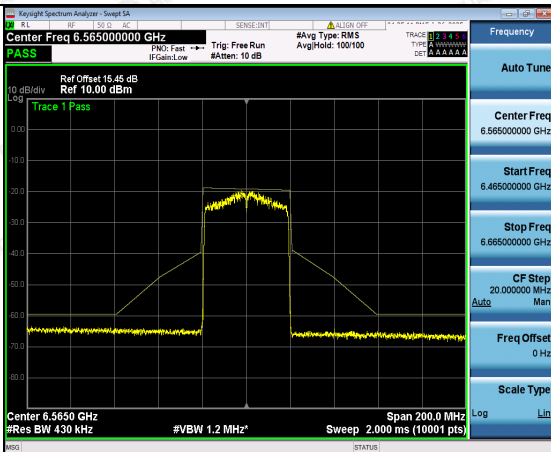


CH115

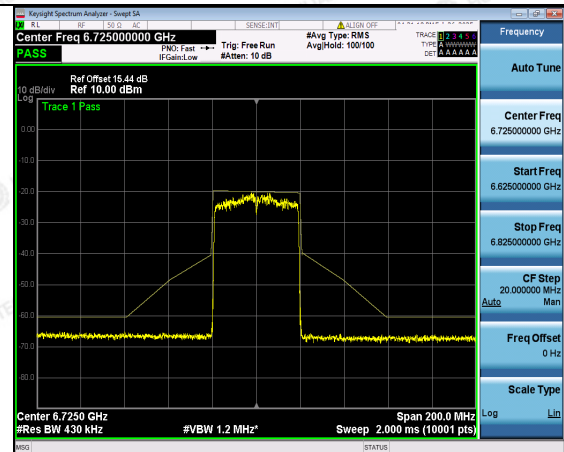




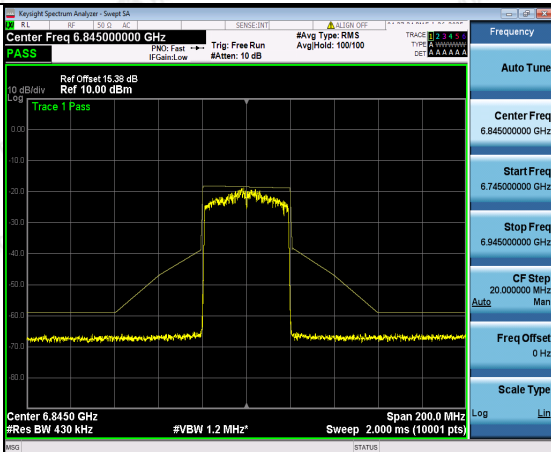
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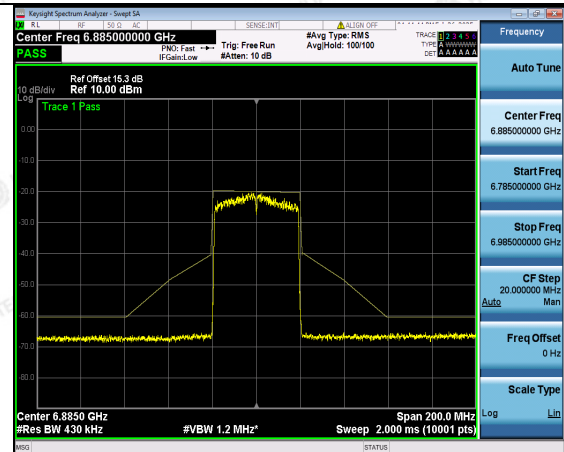
CH155



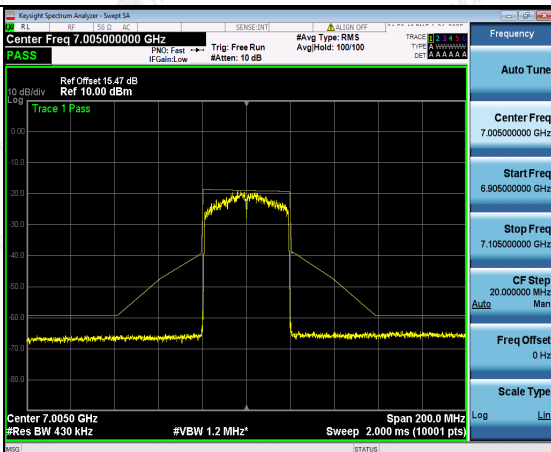
CH179



CH187



CH211



CH227

