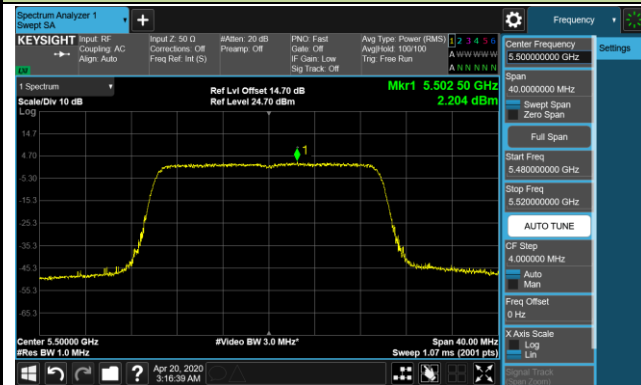
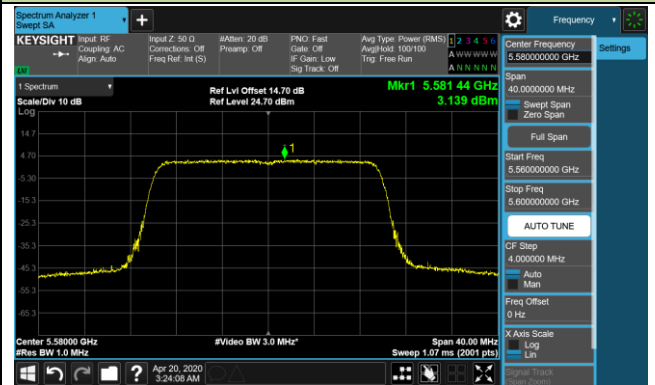


802.11ax-HE20 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

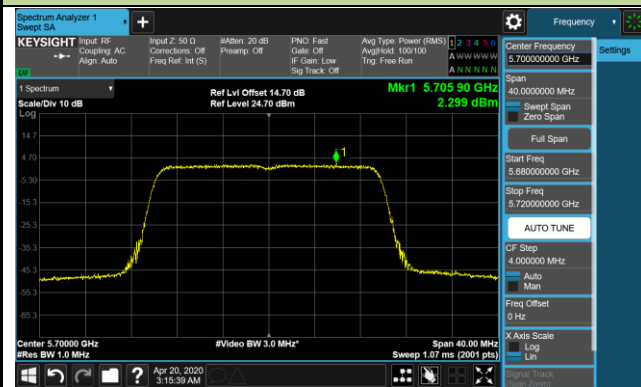
Channel 100 (5500MHz)



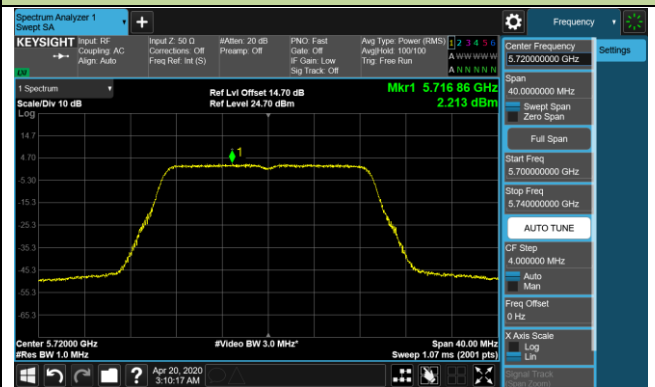
Channel 116 (5580MHz)



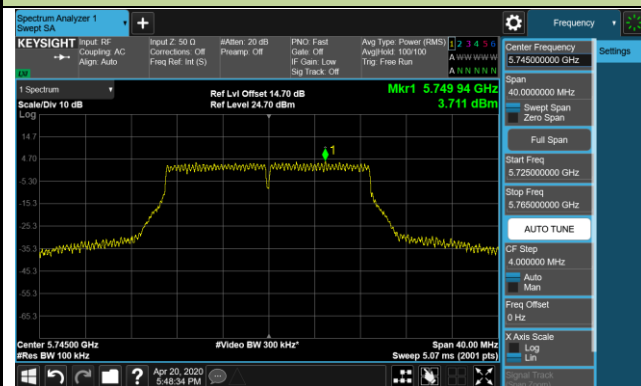
Channel 140 (5700MHz)



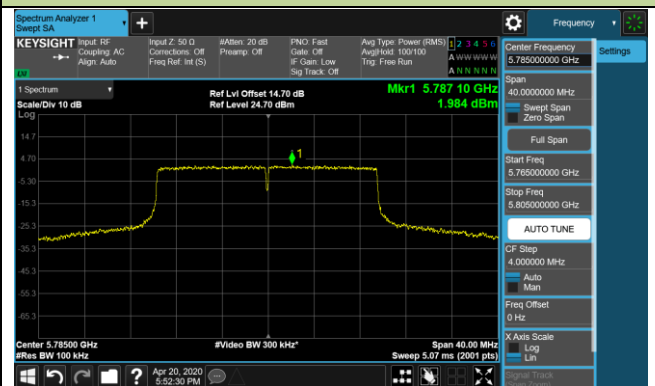
Channel 144 (5720MHz)



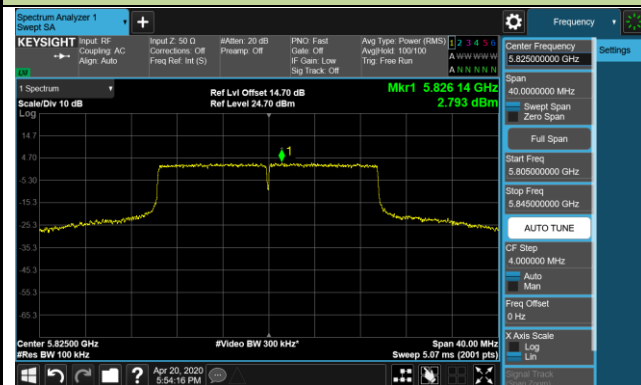
Channel 149 (5745MHz)



Channel 157 (5785MHz)

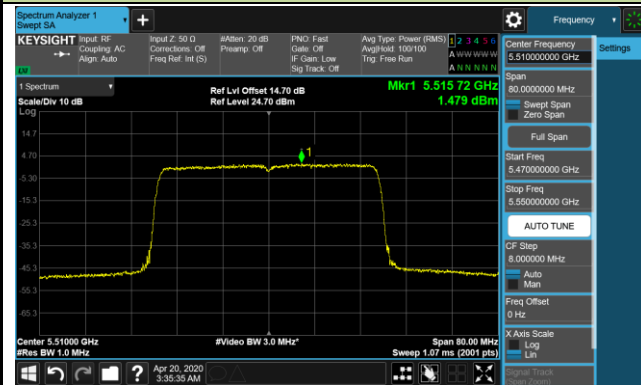


Channel 165 (5825MHz)

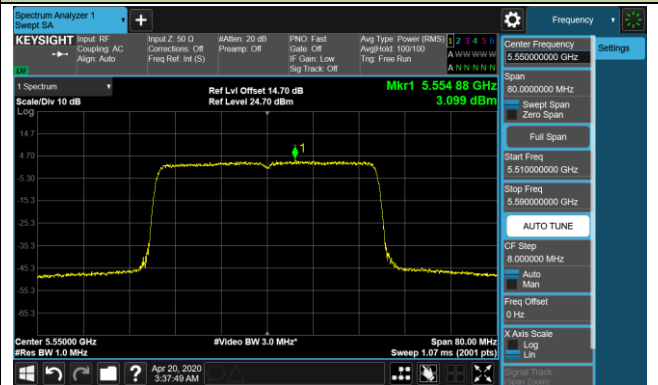


802.11ax-HE40 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

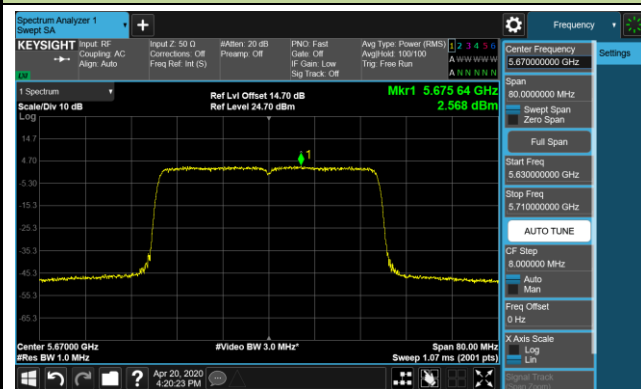
Channel 102 (5510MHz)



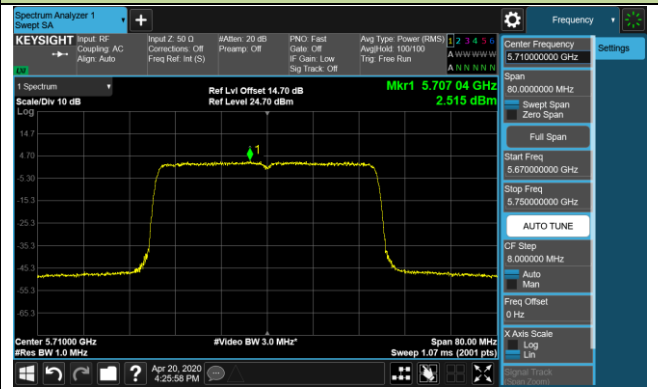
Channel 110 (5550MHz)



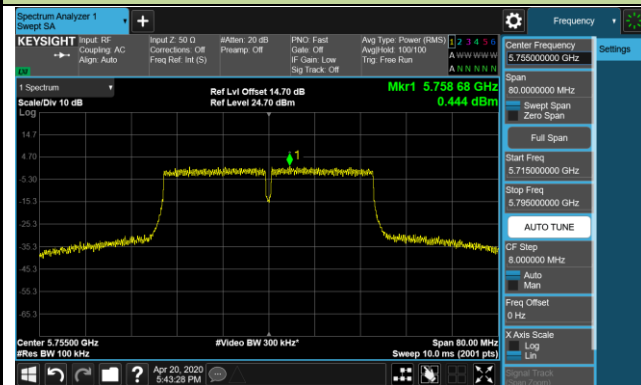
Channel 134 (5670MHz)



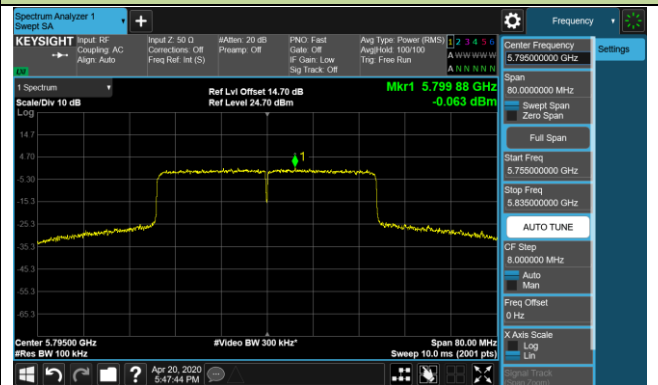
Channel 142 (5710MHz)



Channel 151 (5755MHz)

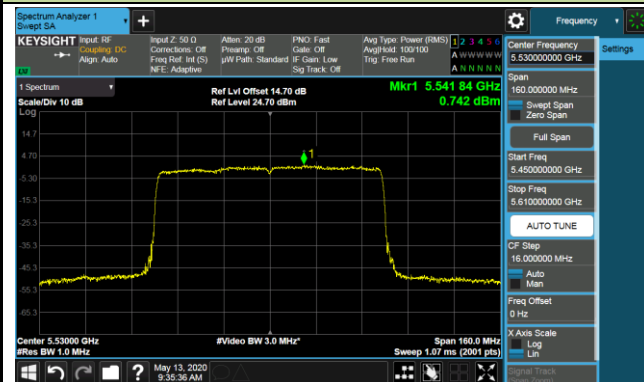


Channel 159 (5795MHz)

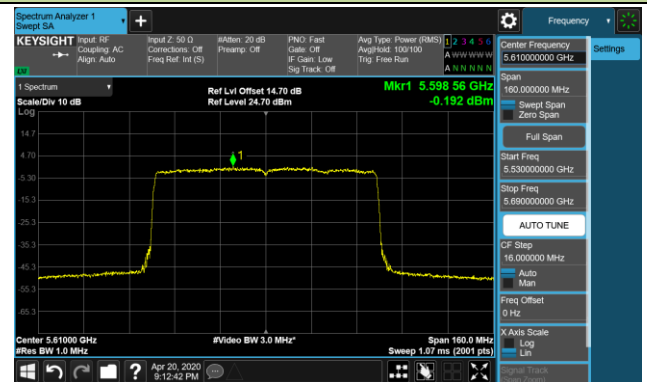


802.11ax-HE80 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

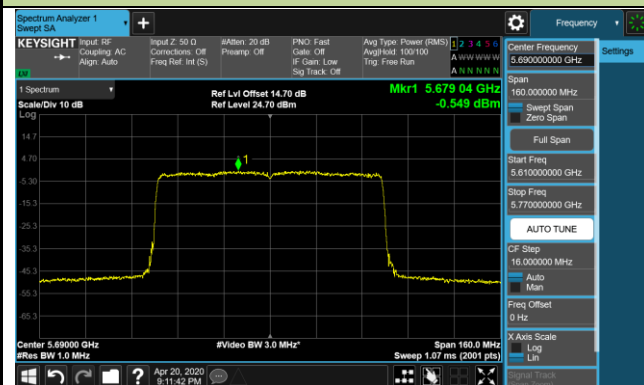
Channel 106 (5530MHz)



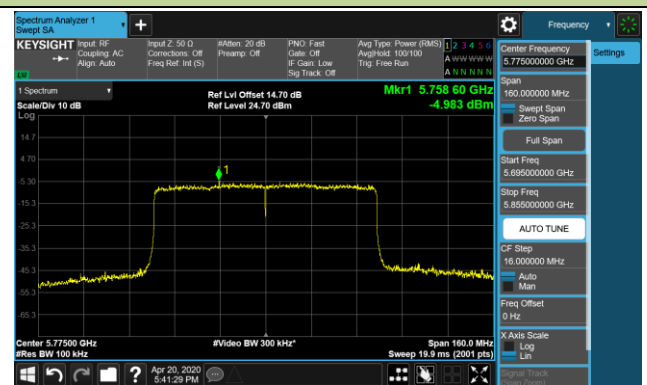
Channel 122 (5610MHz)



Channel 138 (5690MHz)

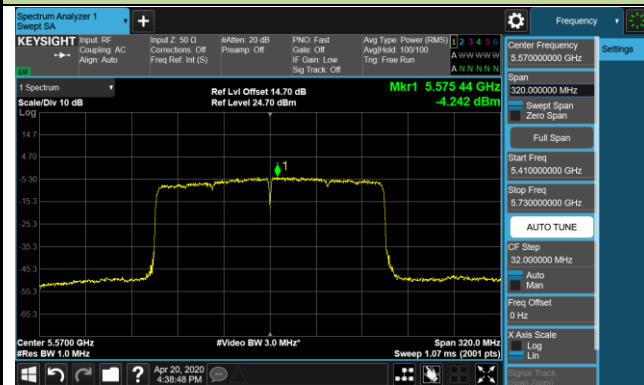


Channel 155 (5775MHz)



802.11ax-HE160 Power Spectral Density - Ant 3 / Ant 0 + 1 + 2 + 3

Channel 114 (5570MHz)



Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	23 ~ 25°C
Test Engineer	Kevin Ker	Relative Humidity	40 ~ 56%
Test Site	SR1	Test Date	2020/04/20 ~ 2020/05/14
Mode	Power Spectral Density (U-NII- 1/-2C) Beamforming Mode N _{ss} =1		

Test Mode	Data Rate /MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT20	MCS0	36	5180	4.94	4.76	--	--	98.06	7.87	≤ 17.00	Pass
11ac-VHT20	MCS0	44	5220	13.66	13.18	--	--	98.06	16.44	≤ 17.00	Pass
11ac-VHT20	MCS0	48	5240	13.53	13.43	--	--	98.06	16.49	≤ 17.00	Pass
11ac-VHT20	MCS0	100	5500	1.36	1.34	0.85	0.88	98.06	7.14	≤ 9.35	Pass
11ac-VHT20	MCS0	116	5580	2.70	2.97	3.21	3.17	98.06	9.04	≤ 9.35	Pass
11ac-VHT20	MCS0	140	5700	-0.25	0.09	-0.38	-0.45	98.06	5.78	≤ 9.35	Pass
11ac-VHT20	MCS0	144	5720	2.89	3.07	2.78	2.54	98.06	8.84	≤ 9.35	Pass
11ac-VHT40	MCS0	38	5190	0.41	-0.17	--	--	95.75	3.33	≤ 17.00	Pass
11ac-VHT40	MCS0	46	5230	10.96	10.12	--	--	95.75	13.76	≤ 17.00	Pass
11ac-VHT40	MCS0	102	5510	-2.53	-2.66	-3.39	-3.04	95.75	3.32	≤ 9.35	Pass
11ac-VHT40	MCS0	110	5550	3.28	3.20	3.01	2.94	95.75	9.32	≤ 9.35	Pass
11ac-VHT40	MCS0	134	5670	-2.65	-2.37	-2.39	-2.19	95.75	3.81	≤ 9.35	Pass
11ac-VHT40	MCS0	142	5710	3.35	2.91	2.93	2.88	95.75	9.23	≤ 9.35	Pass
11ac-VHT80	MCS0	42	5210	-0.92	-1.20	--	--	90.34	2.39	≤ 17.00	Pass
11ac-VHT80	MCS0	106	5530	-5.82	-5.39	-5.82	-5.47	90.34	0.84	≤ 9.35	Pass
11ac-VHT80	MCS0	122	5610	-6.80	-6.14	-6.11	-6.91	90.34	-0.01	≤ 9.35	Pass
11ac-VHT80	MCS0	138	5690	0.57	0.11	0.69	0.26	90.34	6.88	≤ 9.35	Pass
11ac-VHT160	MCS0	114	5570	-8.91	-8.70	-8.86	-8.91	88.26	-2.28	≤ 9.35	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ax-HE20	MCS0	36	5180	6.04	5.14	--	--	97.50	8.73	≤ 17.00	Pass
11ax-HE20	MCS0	44	5220	13.36	12.80	--	--	97.50	16.21	≤ 17.00	Pass
11ax-HE20	MCS0	48	5240	13.29	12.34	--	--	97.50	15.96	≤ 17.00	Pass
11ax-HE20	MCS0	100	5500	2.55	2.59	1.74	1.91	97.50	8.34	≤ 9.35	Pass
11ax-HE20	MCS0	116	5580	2.88	3.09	3.02	3.22	97.50	9.18	≤ 9.35	Pass
11ax-HE20	MCS0	140	5700	3.17	3.37	3.13	2.90	97.50	9.28	≤ 9.35	Pass
11ax-HE20	MCS0	144	5720	2.97	3.24	2.99	2.30	97.50	9.02	≤ 9.35	Pass
11ax-HE40	MCS0	38	5190	1.94	1.37	--	--	96.08	4.85	≤ 17.00	Pass
11ax-HE40	MCS0	46	5230	11.48	10.31	--	--	96.08	14.12	≤ 17.00	Pass
11ax-HE40	MCS0	102	5510	-0.72	-1.20	-1.90	-1.79	96.08	4.82	≤ 9.35	Pass
11ax-HE40	MCS0	110	5550	3.18	3.06	3.24	2.64	96.08	9.23	≤ 9.35	Pass
11ax-HE40	MCS0	134	5670	-1.54	-0.94	-1.45	-1.77	96.08	4.78	≤ 9.35	Pass
11ax-HE40	MCS0	142	5710	3.56	3.07	3.24	2.60	96.08	9.37	≤ 9.35	Pass
11ax-HE80	MCS0	42	5210	-2.67	-2.87	--	--	91.49	0.63	≤ 17.00	Pass
11ax-HE80	MCS0	106	5530	-8.39	-7.88	-8.21	-7.95	91.49	-1.70	≤ 9.35	Pass
11ax-HE80	MCS0	122	5610	-3.40	-3.30	-2.40	-3.65	91.49	3.25	≤ 9.35	Pass
11ax-HE80	MCS0	122	5690	-0.33	-0.27	-0.36	-0.80	91.49	5.97	≤ 9.35	Pass
11ax-HE160	MCS0	114	5570	-8.67	-8.28	-8.36	-9.13	87.80	-2.01	≤ 9.35	Pass

Note 1: When EUT duty cycle ≥ 98%,

For 5150 - 5250MHz, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz).

For 5470 - 5725MHz, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz).

When EUT duty cycle < 98%,

For 5150 - 5250MHz, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

For 5470 - 5725MHz, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ + $10 \cdot \log (1/\text{Duty Cycle})$ (dBm/MHz).

Note 2:

For 5150 - 5250MHz Bands: PSD Limit (dBm/MHz) = 17dBm/MHz.

For 5470 - 5725MHz Bands: PSD Limit (dBm/MHz) = 11 - (7.65 - 6) = 9.35dBm/MHz..

Product	AX6600 Tri-Band Wi-Fi 6 Gaming Router	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	58%
Test Site	SR2	Test Date	2020/04/20 ~ 2020/05/14
Test Item	Power Spectral Density (U-NII-3) Beamforming Mode N _{SS} =1		

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Ant 2 PSD (dBm/100kHz)	Ant 3 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor (dB)	Total PSD(dBm/500kHz)	Limit (dBm/500kHz)	Result
11ac-VHT20	MCS0	149	5745	-1.51	-1.63	-0.74	-1.27	98.06	6.99	11.74	≤ 28.65	Pass
11ac-VHT20	MCS0	157	5785	1.62	1.17	1.70	2.02	98.06	6.99	14.65	≤ 28.65	Pass
11ac-VHT20	MCS0	165	5825	-1.01	-1.38	-0.65	-0.84	98.06	6.99	12.05	≤ 28.65	Pass
11ac-VHT40	MCS0	151	5755	-9.73	-9.39	-9.61	-9.13	95.75	6.99	3.74	≤ 28.65	Pass
11ac-VHT40	MCS0	159	5795	-6.94	-7.00	-7.18	-6.72	95.75	6.99	6.24	≤ 28.65	Pass
11ac-VHT80	MCS0	155	5775	-13.96	-14.08	-13.51	-13.65	90.34	6.99	-0.34	≤ 28.65	Pass
11ax-HE20	MCS0	149	5745	-2.50	-2.16	-1.79	-2.12	97.50	6.99	10.98	≤ 28.65	Pass
11ax-HE20	MCS0	157	5785	-0.01	-0.35	0.32	-0.01	97.50	6.99	13.11	≤ 28.65	Pass
11ax-HE20	MCS0	165	5825	-2.48	-2.42	-1.96	-2.44	97.50	6.99	10.80	≤ 28.65	Pass
11ax-HE40	MCS0	151	5755	-8.31	-7.92	-8.04	-7.95	96.08	6.99	5.13	≤ 28.65	Pass
11ax-HE40	MCS0	159	5795	-5.73	-6.29	-5.78	-6.19	96.08	6.99	7.20	≤ 28.65	Pass
11ax-HE80	MCS0	155	5775	-13.66	-13.98	-13.41	-13.62	91.49	6.99	-0.27	≤ 28.65	Pass

Note 1: When EUT duty cycle ≥ 98%,

the total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor (dB).

When EUT duty cycle < 98%, the total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor (dB) + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 2: PSD Limit (dBm/500kHz) = 30 - (7.35 - 6) = 28.65dBm/500kHz.

802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



802.11ac-VHT40 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)



802.11ac-VHT80 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 42 (5210MHz)



802.11ax-HE20 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)



802.11ax-HE80 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 42 (5210MHz)



802.11ac-VHT20 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



802.11ac-VHT40 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)



802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 42 (5210MHz)



802.11ax-HE20 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



802.11ax-HE40 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 38 (5190MHz)

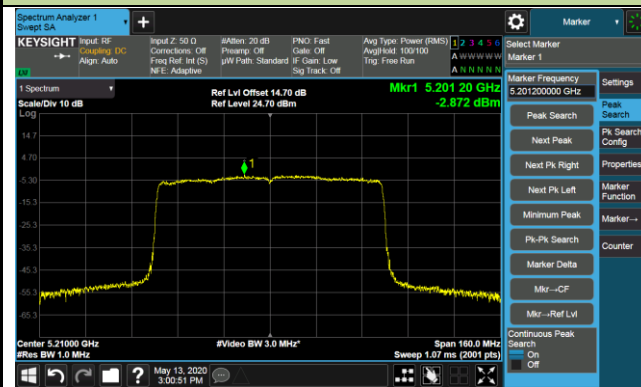


Channel 46 (5230MHz)



802.11ax-HE80 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 42 (5210MHz)



802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



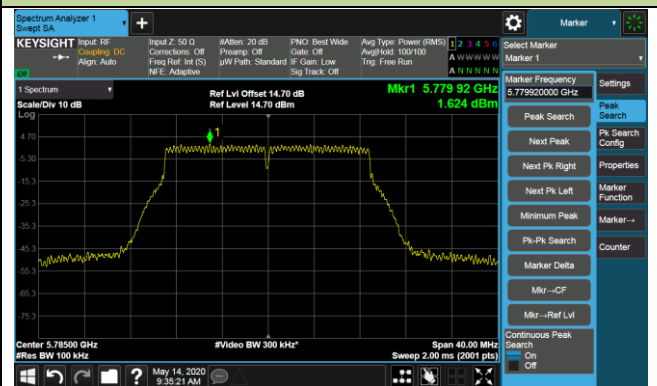
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 102 (5510MHz)



Channel 110 (5550MHz)



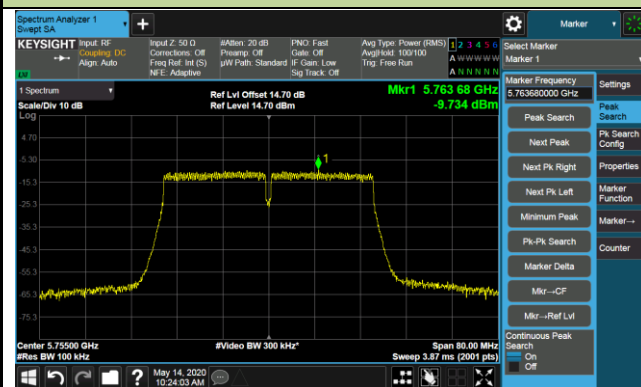
Channel 134 (5670MHz)



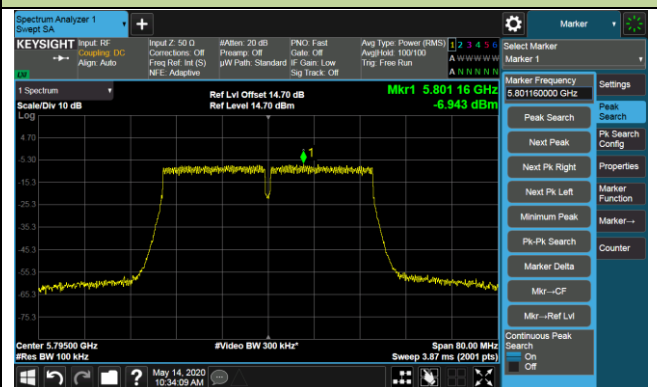
Channel 142 (5710MHz)



Channel 151 (5755MHz)

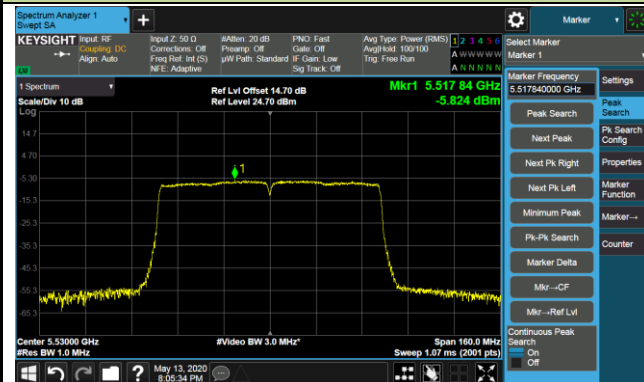


Channel 159 (5795MHz)

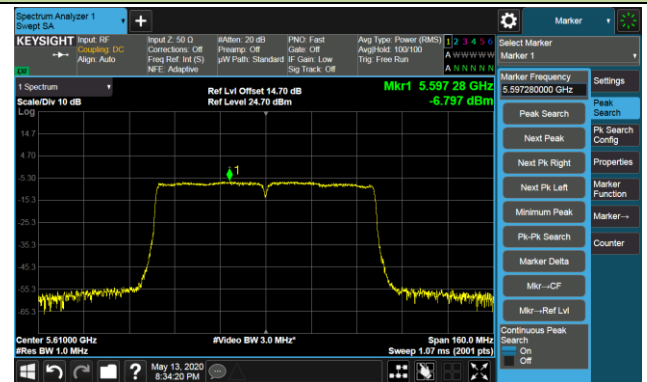


802.11ac-VHT80 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

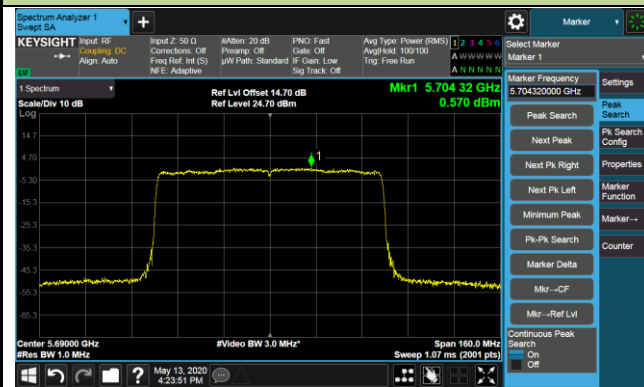
Channel 106 (5530MHz)



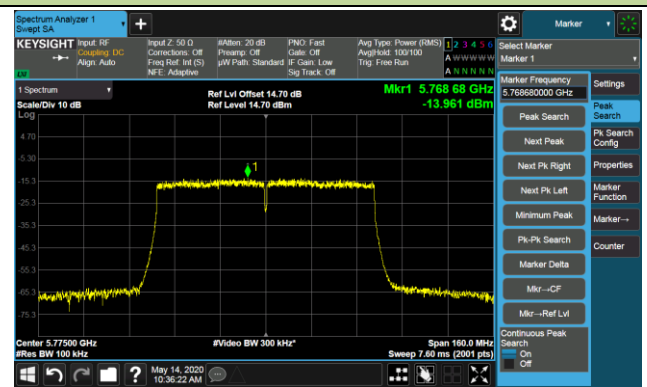
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



802.11ac-VHT160 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 114 (5570MHz)

