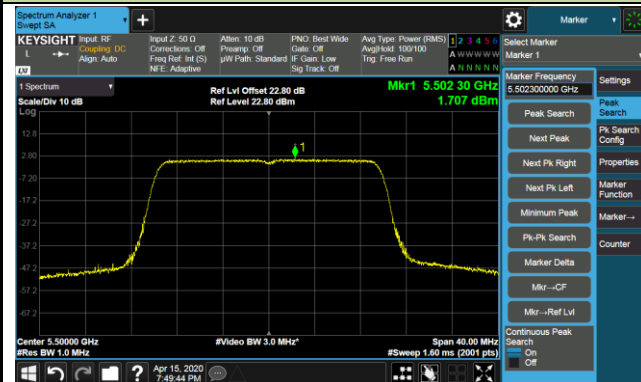


802.11ax-HE20 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



Channel 144 (5720MHz)



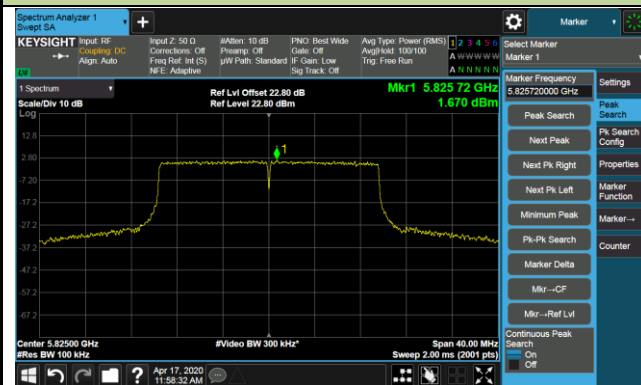
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



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

Channel 102 (5510MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)



Channel 151 (5755MHz)

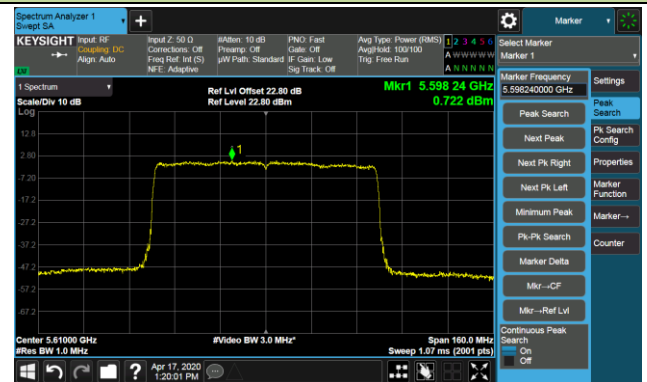


802.11ax-HE80 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 106 (5530MHz)



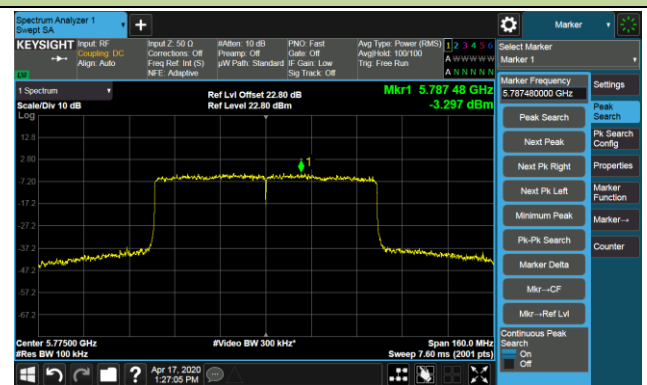
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



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

Channel 114 (5570MHz)



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

Channel 100 (5500MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



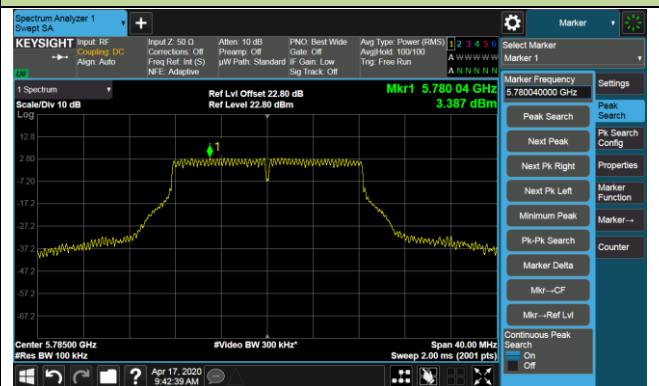
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT20 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)



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

Channel 102 (5510MHz)



Channel 110 (5550MHz)



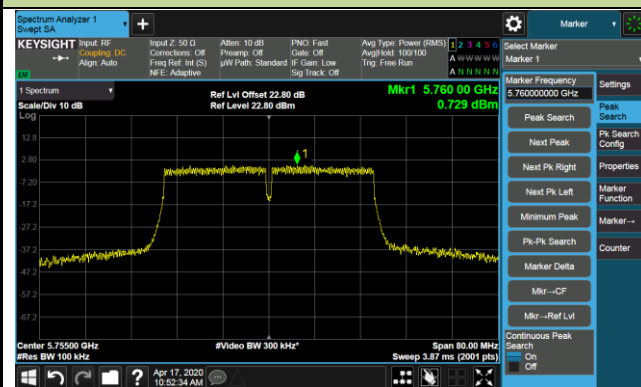
Channel 134 (5670MHz)



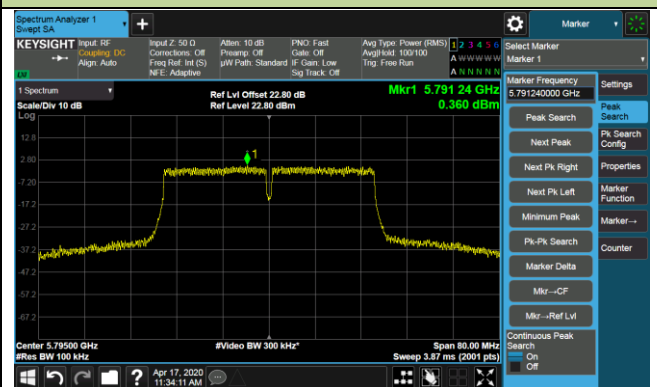
Channel 142 (5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



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

Channel 106 (5530MHz)



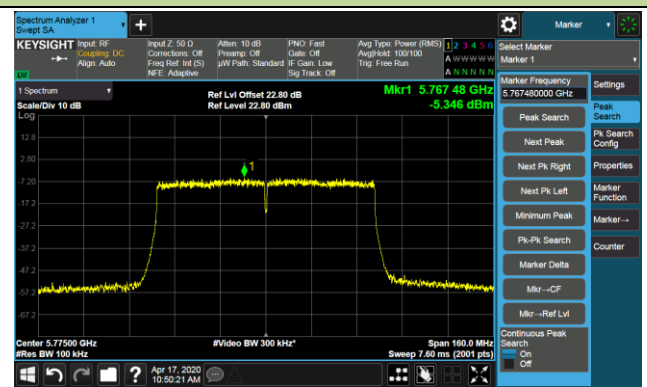
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



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

Channel 114 (5570MHz)



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)



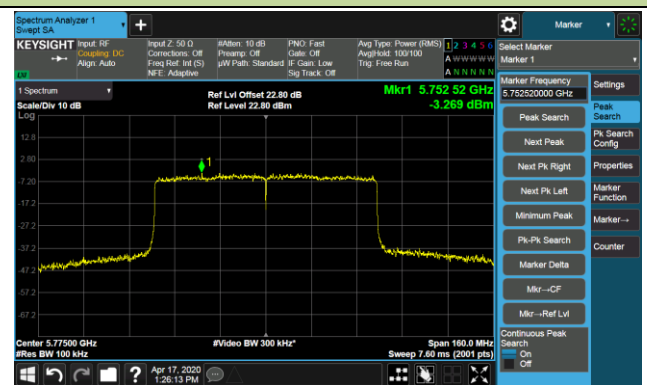
Channel 122 (5610MHz)



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 Router	Temperature	23 ~ 25°C
Test Engineer	Kevin Ker	Relative Humidity	40 ~ 56%
Test Site	SR1	Test Date	2020/04/15 ~ 2020/05/15
Mode	Power Spectral Density (U-NII- 1 / -2C) Beamforming Mode Nss=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	4.30	4.19	--	--	98.52	7.32	≤ 16.45	Pass
11ac-VHT20	MCS0	44	5220	12.62	13.32	--	--	98.52	16.06	≤ 16.45	Pass
11ac-VHT20	MCS0	48	5240	12.84	13.18	--	--	98.52	16.09	≤ 16.45	Pass
11ac-VHT20	MCS0	100	5500	-0.98	-0.40	-0.22	-0.92	98.52	5.47	≤ 7.78	Pass
11ac-VHT20	MCS0	116	5580	1.31	1.62	1.82	1.53	98.52	7.66	≤ 7.78	Pass
11ac-VHT20	MCS0	140	5700	1.14	1.40	1.61	1.28	98.52	7.45	≤ 7.78	Pass
11ac-VHT20	MCS0	144	5720	1.32	1.59	1.72	1.47	98.52	7.61	≤ 7.78	Pass
11ac-VHT40	MCS0	38	5190	-1.29	-1.40	--	--	96.96	1.80	≤ 16.45	Pass
11ac-VHT40	MCS0	46	5230	10.60	11.00	--	--	96.96	13.95	≤ 16.45	Pass
11ac-VHT40	MCS0	102	5510	-1.79	-1.60	-1.51	-1.66	96.96	4.52	≤ 16.45	Pass
11ac-VHT40	MCS0	110	5550	-1.54	-1.34	-1.27	-1.45	96.96	4.76	≤ 7.78	Pass
11ac-VHT40	MCS0	134	5670	-0.92	-0.95	-1.15	-1.17	96.96	5.11	≤ 7.78	Pass
11ac-VHT40	MCS0	142	5710	-0.62	-0.77	-0.57	-0.58	96.96	5.52	≤ 7.78	Pass
11ac-VHT80	MCS0	42	5210	0.64	0.51	--	--	93.88	3.86	≤ 16.45	Pass
11ac-VHT80	MCS0	106	5530	-4.17	-3.98	-3.74	-4.00	93.88	2.32	≤ 7.78	Pass
11ac-VHT80	MCS0	122	5610	-3.95	-3.64	-3.53	-3.58	93.88	2.62	≤ 7.78	Pass
11ac-VHT80	MCS0	138	5690	-3.82	-3.60	-3.87	-4.02	93.88	2.47	≤ 7.78	Pass
11ac-VHT160	MCS0	114	5570	-3.84	-4.30	-4.44	-4.24	89.49	2.30	≤ 7.78	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	4.11	4.05	--	--	97.89	7.18	≤ 16.45	Pass
11ax-HE20	MCS0	44	5220	13.03	13.39	--	--	97.89	16.32	≤ 16.45	Pass
11ax-HE20	MCS0	48	5240	13.05	13.35	--	--	97.89	16.31	≤ 16.45	Pass
11ax-HE20	MCS0	100	5500	1.31	1.47	1.71	1.44	97.89	7.60	≤ 7.78	Pass
11ax-HE20	MCS0	116	5580	1.31	1.45	1.82	1.71	97.89	7.69	≤ 7.78	Pass
11ax-HE20	MCS0	140	5700	1.16	1.50	1.50	1.10	97.89	7.43	≤ 7.78	Pass
11ax-HE20	MCS0	144	5720	1.24	1.67	1.78	1.33	97.89	7.62	≤ 7.78	Pass
11ax-HE40	MCS0	38	5190	2.33	2.09	--	--	96.02	5.40	≤ 16.45	Pass
11ax-HE40	MCS0	46	5230	9.32	9.73	--	--	96.02	12.71	≤ 16.45	Pass
11ax-HE40	MCS0	102	5510	-1.67	-0.99	-1.13	-1.68	96.02	4.84	≤ 7.78	Pass
11ax-HE40	MCS0	110	5550	-1.58	-1.53	-1.33	-1.65	96.02	4.67	≤ 7.78	Pass
11ax-HE40	MCS0	134	5670	-1.01	-1.25	-1.20	-1.22	96.02	5.03	≤ 7.78	Pass
11ax-HE40	MCS0	142	5710	-0.99	-1.30	-1.12	-1.21	96.02	5.04	≤ 7.78	Pass
11ax-HE80	MCS0	42	5210	-3.69	-3.56	--	--	92.58	-0.28	≤ 16.45	Pass
11ax-HE80	MCS0	106	5530	-4.29	-3.57	-3.95	-3.86	92.58	2.45	≤ 7.78	Pass
11ax-HE80	MCS0	122	5610	-4.37	-4.08	-4.35	-3.89	92.58	2.19	≤ 7.78	Pass
11ax-HE80	MCS0	122	5690	-3.90	-4.07	-4.35	-4.22	92.58	2.22	≤ 7.78	Pass
11ax-HE160	MCS0	114	5570	-5.21	-5.60	-5.21	-5.32	88.19	1.23	≤ 7.78	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) = 17 - (6.55 - 6) = 16.45dBm/MHz.

For 5250 - 5725MHz Bands: PSD Limit (dBm/MHz) = 11 - (9.22 - 6) = 7.78dBm/MHz.

Product	AX6600 Tri-Band Wi-Fi 6 Router	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	58%
Test Site	SR2	Test Date	2020/04/22 ~ 2020/05/13
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	-4.81	-4.68	-4.47	-4.49	98.52	6.99	8.47	≤ 26.78	Pass
11ac-VHT20	MCS0	157	5785	-0.70	-0.84	-0.67	-0.67	98.52	6.99	12.29	≤ 26.78	Pass
11ac-VHT20	MCS0	165	5825	-4.58	-4.15	-4.67	-4.26	98.52	6.99	8.66	≤ 26.78	Pass
11ac-VHT40	MCS0	151	5755	-6.39	-6.63	-5.98	-7.08	96.96	6.99	6.64	≤ 26.78	Pass
11ac-VHT40	MCS0	159	5795	-4.15	-4.53	-3.67	-4.28	96.96	6.99	9.00	≤ 26.78	Pass
11ac-VHT80	MCS0	155	5775	-11.87	-11.21	-11.34	-11.47	93.88	6.99	1.82	≤ 26.78	Pass
11ax-HE20	MCS0	149	5745	-1.18	-1.46	-1.11	-1.17	97.89	6.99	11.88	≤ 26.78	Pass
11ax-HE20	MCS0	157	5785	-1.19	-1.11	-0.97	-0.99	97.89	6.99	12.04	≤ 26.78	Pass
11ax-HE20	MCS0	165	5825	-1.03	-1.08	-0.68	-0.71	97.89	6.99	12.23	≤ 26.78	Pass
11ax-HE40	MCS0	151	5755	-6.65	-6.63	-6.05	-6.39	96.02	6.99	6.77	≤ 26.78	Pass
11ax-HE40	MCS0	159	5795	-5.34	-5.37	-4.90	-5.32	96.02	6.99	7.96	≤ 26.78	Pass
11ax-HE80	MCS0	155	5775	-12.61	-12.58	-12.30	-12.47	92.58	6.99	0.86	≤ 26.78	Pass

Note 1: When EUT duty cycle ≥ 98%,

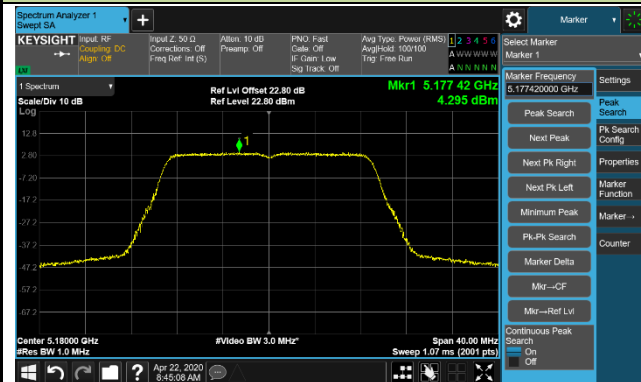
the total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor (dB).

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 - (9.22 - 6) = 26.78dBm/500kHz.

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

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

