

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	52 ~ 57%
Test Site	SR2	Test Date	2020/03/24 ~ 2020/04/19
Model No.	OAW-AP1362		

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
Ant 0 + 1 + 2 + 3											
11a	6Mbps	36	5180	3.46	3.68	3.30	3.31	91.94	9.83	≤ 9.98	Pass
11a	6Mbps	44	5220	3.71	3.31	3.24	3.57	91.94	9.85	≤9.98	Pass
11a	6Mbps	48	5240	3.57	2.97	2.80	3.51	91.94	9.61	≤9.98	Pass
11a	6Mbps	52	5260	-2.37	-3.06	-3.06	-2.77	91.94	3.58	≤3.98	Pass
11a	6Mbps	60	5300	-2.24	-3.49	-2.97	-2.64	91.94	3.57	≤3.98	Pass
11a	6Mbps	64	5320	-3.51	-3.27	-2.98	-3.57	91.94	3.06	≤3.98	Pass
11a	6Mbps	100	5500	-2.50	-3.89	-2.70	-2.72	91.94	3.47	≤3.98	Pass
11a	6Mbps	120	5600	-3.49	-2.58	-2.39	-2.37	91.94	3.70	≤3.98	Pass
11a	6Mbps	140	5700	-3.61	-2.37	-3.03	-2.85	91.94	3.44	≤3.98	Pass
11a	6Mbps	144	5720	-3.25	-2.29	-2.58	-2.81	91.94	3.67	≤3.98	Pass
11n-HT20	MCS0	36	5180	3.30	2.85	2.98	2.73	95.09	9.21	≤9.98	Pass
11n-HT20	MCS0	44	5220	3.37	3.46	2.78	2.77	95.09	9.35	≤9.98	Pass
11n-HT20	MCS0	48	5240	3.27	3.32	3.52	3.68	95.09	9.69	≤9.98	Pass
11n-HT20	MCS0	52	5260	-2.14	-3.44	-2.53	-2.87	95.09	3.52	≤3.98	Pass
11n-HT20	MCS0	60	5300	-2.77	-2.14	-3.68	-3.38	95.09	3.29	≤3.98	Pass
11n-HT20	MCS0	64	5320	-3.22	-2.75	-3.15	-3.03	95.09	3.21	≤3.98	Pass
11n-HT20	MCS0	100	5500	-2.59	-3.33	-2.95	-2.57	95.09	3.39	≤3.98	Pass
11n-HT20	MCS0	120	5600	-2.02	-3.39	-2.85	-2.79	95.09	3.50	≤3.98	Pass
11n-HT20	MCS0	140	5700	-3.09	-2.41	-2.46	-2.85	95.09	3.55	≤3.98	Pass
11n-HT20	MCS0	144	5720	-3.47	-2.29	-2.78	-2.76	95.09	3.43	≤3.98	Pass
11n-HT40	MCS0	38	5190	0.50	0.63	-0.45	1.26	93.92	6.82	≤9.98	Pass
11n-HT40	MCS0	46	5230	-0.36	0.71	0.46	-0.02	93.92	6.51	≤9.98	Pass
11n-HT40	MCS0	54	5270	-2.90	-3.09	-2.65	-3.04	93.92	3.38	≤3.98	Pass
11n-HT40	MCS0	62	5310	-2.45	-3.08	-3.60	-2.98	93.92	3.28	≤3.98	Pass
11n-HT40	MCS0	102	5510	-2.47	-3.26	-3.52	-1.91	93.92	3.55	≤3.98	Pass
11n-HT40	MCS0	118	5590	-3.31	-3.52	-2.33	-2.62	93.92	3.38	≤3.98	Pass
11n-HT40	MCS0	134	5670	-3.43	-3.31	-2.75	-3.29	93.92	3.11	≤3.98	Pass

11n-HT40	MCS0	142	5710	-3.27	-3.34	-3.44	-2.32	93.92	3.22	≤3.98	Pass
11ax-HE20	MCS0	36	5180	3.05	2.86	1.02	3.53	95.51	8.93	≤ 9.98	Pass
11ax-HE20	MCS0	44	5220	2.87	3.12	2.46	2.53	95.51	8.97	≤9.98	Pass
11ax-HE20	MCS0	48	5240	3.04	3.11	2.40	3.37	95.51	9.21	≤9.98	Pass
11ax-HE20	MCS0	52	5260	-2.44	-2.80	-3.31	-3.00	95.51	3.34	≤3.98	Pass
11ax-HE20	MCS0	60	5300	-2.31	-2.96	-2.83	-3.36	95.51	3.37	≤3.98	Pass
11ax-HE20	MCS0	64	5320	-2.38	-2.98	-3.64	-2.95	95.51	3.26	≤3.98	Pass
11ax-HE20	MCS0	100	5500	-2.45	-3.70	-2.75	-2.56	95.51	3.38	≤3.98	Pass
11ax-HE20	MCS0	120	5600	-2.45	-3.04	-3.36	-2.68	95.51	3.35	≤3.98	Pass
11ax-HE20	MCS0	140	5700	-3.69	-2.61	-2.68	-2.47	95.51	3.38	≤3.98	Pass
11ax-HE20	MCS0	144	5720	-3.26	-2.56	-2.78	-2.52	95.51	3.45	≤3.98	Pass
11ax-HE40	MCS0	38	5190	0.18	-0.16	0.93	-0.24	94.90	6.45	≤9.98	Pass
11ax-HE40	MCS0	46	5230	-0.10	-0.13	0.87	0.24	94.90	6.49	≤9.98	Pass
11ax-HE40	MCS0	54	5270	-2.93	-3.07	-3.02	-2.65	94.90	3.33	≤3.98	Pass
11ax-HE40	MCS0	62	5310	-2.78	-2.41	-2.06	-2.40	94.90	3.84	≤3.98	Pass
11ax-HE40	MCS0	102	5510	-2.45	-2.89	-3.13	-2.27	94.90	3.58	≤3.98	Pass
11ax-HE40	MCS0	118	5590	-2.49	-3.14	-2.10	-3.10	94.90	3.56	≤3.98	Pass
11ax-HE40	MCS0	134	5670	-2.67	-2.66	-2.31	-2.84	94.90	3.63	≤3.98	Pass
11ax-HE40	MCS0	142	5710	-2.76	-2.66	-2.56	-2.29	94.90	3.68	≤3.98	Pass
11ax-HE80	MCS0	42	5210	-2.89	-3.19	-2.43	-3.19	94.43	3.36	≤9.98	Pass
11ax-HE80	MCS0	58	5290	-2.73	-3.42	-3.23	-2.16	94.43	3.41	≤3.98	Pass
11ax-HE80	MCS0	106	5530	-2.65	-3.63	-2.93	-2.92	94.43	3.25	≤3.98	Pass
11ax-HE80	MCS0	122	5610	-2.17	-3.14	-2.29	-2.17	94.43	3.85	≤3.98	Pass
11ax-HE80	MCS0	138	5690	-2.56	-2.88	-2.50	-2.26	94.43	3.73	≤3.98	Pass
11ax-HE80 + 80	MCS0	42	5210	-5.80	-5.71	--	--	94.43	-2.50	≤3.98	Pass
		58	5290	--	--	-3.01	-2.82	94.43	0.35	≤3.98	Pass
11ax-HE80 + 80	MCS0	106	5530	-6.44	-6.13	--	--	94.43	-3.02	≤3.98	Pass
		122	5610	--	--	-0.88	-1.07	94.43	2.29	≤3.98	Pass

Note 1: When EUT duty cycle ≥ 98%, 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).

Note 2: When EUT duty cycle < 98%, 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) + $10 \cdot \log(1/\text{Duty Cycle})$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	52 ~ 57%
Test Site	SR2	Test Date	2020/03/24 ~ 2020/04/19
Model No.	OAW-AP1362		

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	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Ant 0 + 1 + 2 + 3												
11a	6Mbps	149	5745	0.43	0.69	0.71	1.07	91.94	6.99	14.11	≤ 22.98	Pass
11a	6Mbps	157	5785	1.52	1.79	1.27	0.61	91.94	6.99	14.69	≤ 22.98	Pass
11a	6Mbps	165	5825	1.31	1.87	1.73	1.36	91.94	6.99	14.95	≤ 22.98	Pass
11n-HT20	MCS0	149	5745	2.01	1.59	1.44	2.53	95.09	6.99	15.14	≤ 22.98	Pass
11n-HT20	MCS0	157	5785	1.89	1.49	1.22	2.62	95.09	6.99	15.07	≤ 22.98	Pass
11n-HT20	MCS0	165	5825	0.94	0.93	1.63	1.27	95.09	6.99	14.43	≤ 22.98	Pass
11n-HT40	MCS0	151	5755	-1.25	-1.32	-1.29	-0.52	93.92	6.99	12.20	≤ 22.98	Pass
11n-HT40	MCS0	159	5795	-1.57	-1.80	-1.88	-0.73	93.92	6.99	11.81	≤ 22.98	Pass
11ax-HE20	MCS0	149	5745	0.97	0.95	1.02	1.18	95.51	6.99	14.24	≤ 22.98	Pass
11ax-HE20	MCS0	157	5785	0.77	0.63	0.18	1.28	95.51	6.99	13.94	≤ 22.98	Pass
11ax-HE20	MCS0	165	5825	0.56	-0.06	0.38	0.78	95.51	6.99	13.64	≤ 22.98	Pass
11ax-HE40	MCS0	151	5755	-1.65	-2.22	-1.72	-1.08	94.90	6.99	11.59	≤ 22.98	Pass
11ax-HE40	MCS0	159	5795	-1.68	-2.55	-2.76	-2.14	94.90	6.99	10.98	≤ 22.98	Pass
11ax-HE80	MCS0	155	5775	-5.43	-5.93	-5.64	-5.27	94.43	6.99	7.70	≤ 22.98	Pass

Note 1: When EUT duty cycle ≥ 98%, 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.

Note 2: When EUT duty cycle < 98%, 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 + $10 \cdot \log(1/\text{Duty Cycle})$.

Note 3: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (8.01dBi - 6dBi) = 27.99dBm/500kHz.

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

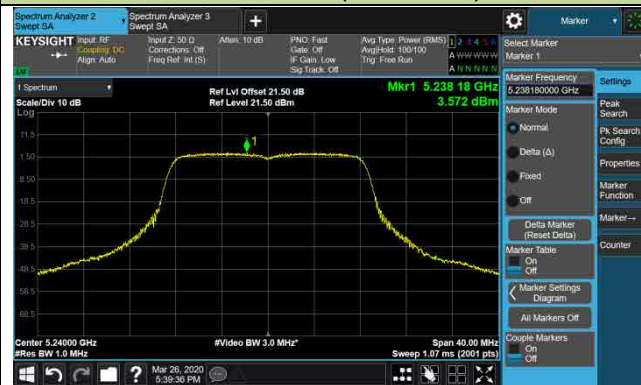
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



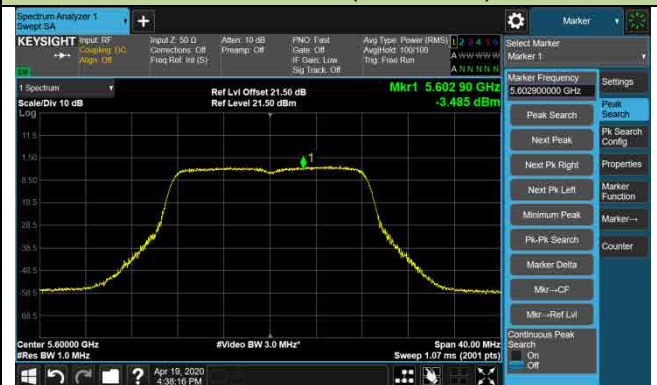
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

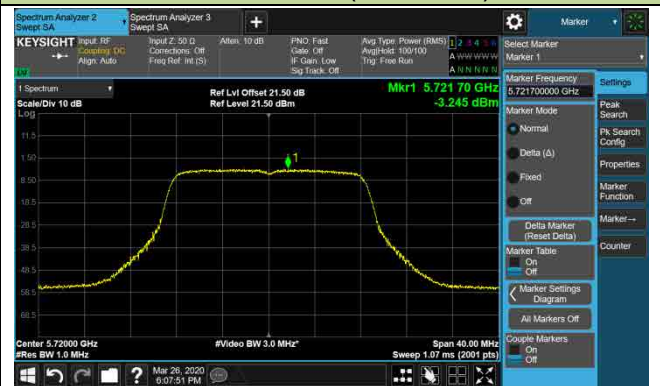


802.11a Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 140 (5700MHz)



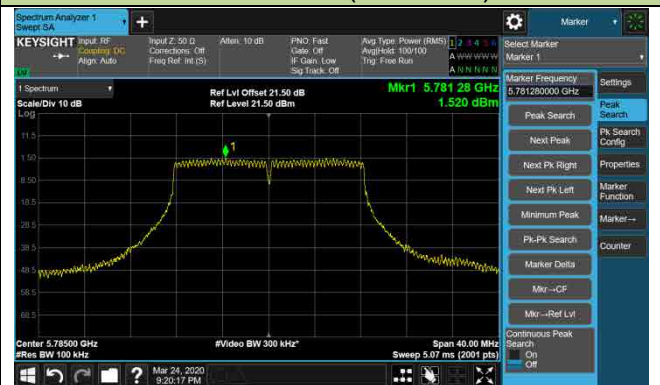
Channel 144 (5720MHz)



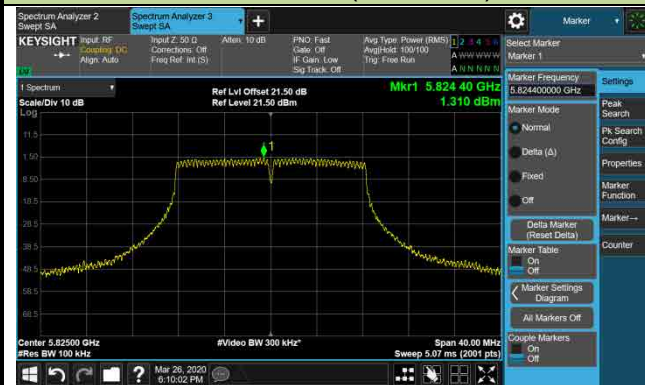
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

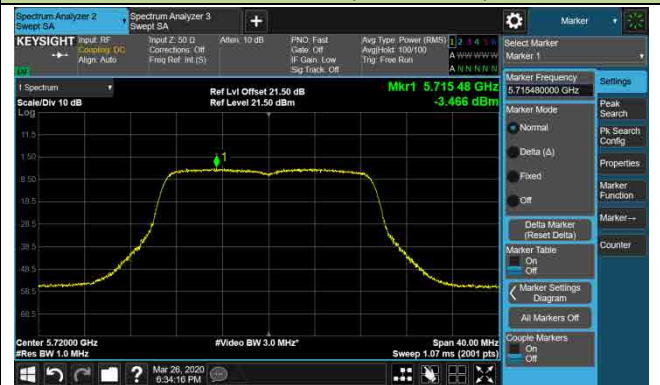


802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

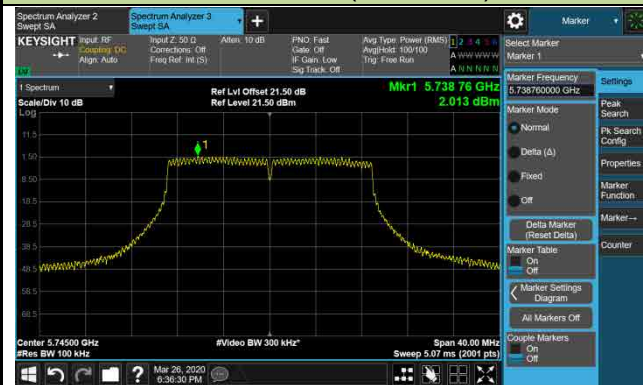
Channel 140 (5700MHz)



Channel 144 (5720MHz)



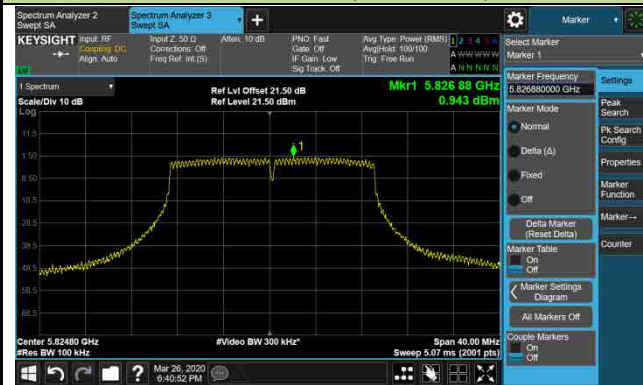
Channel 149 (5745MHz)



Channel 157 (5785MHz)

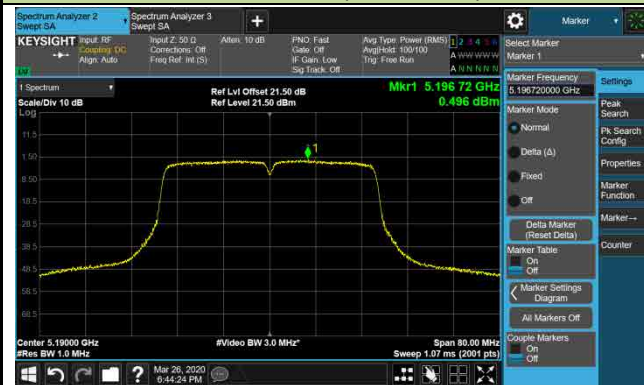


Channel 165 (5825MHz)

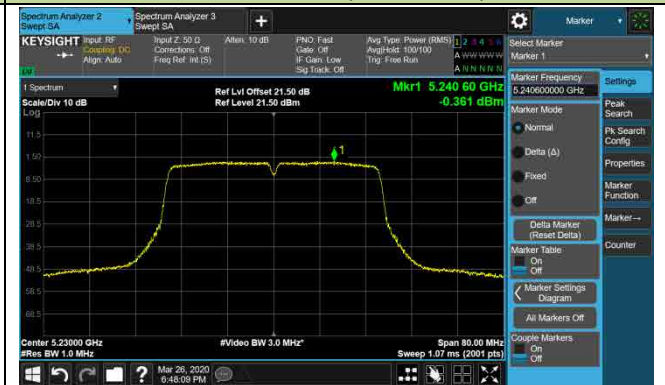


802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

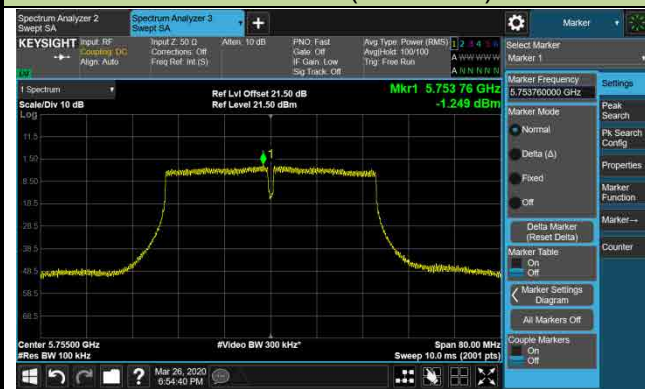
Channel 134 (5670MHz)



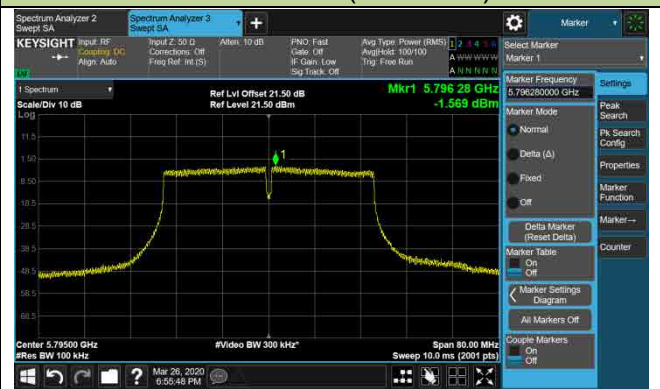
Channel 142 (5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



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

Channel 36 (5180MHz)



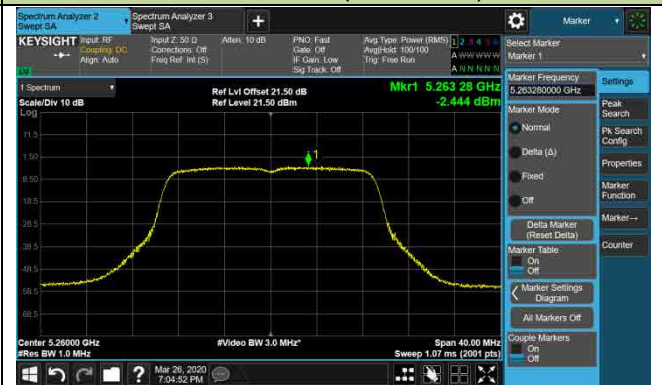
Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

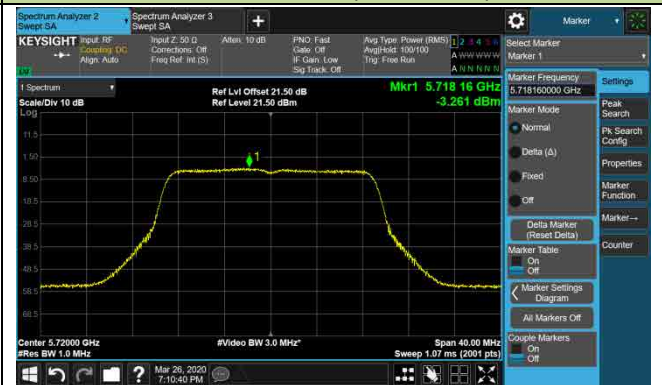


802.11ax-HE20 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

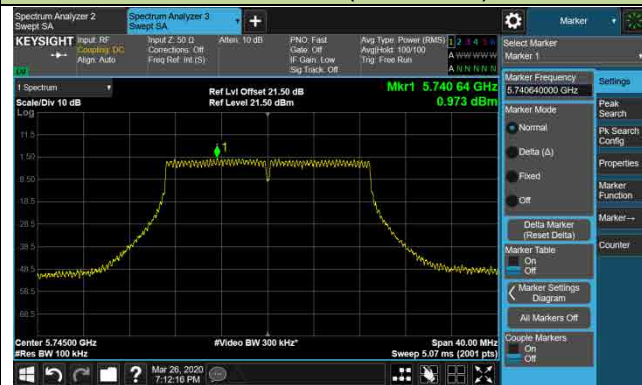
Channel 140 (5700MHz)



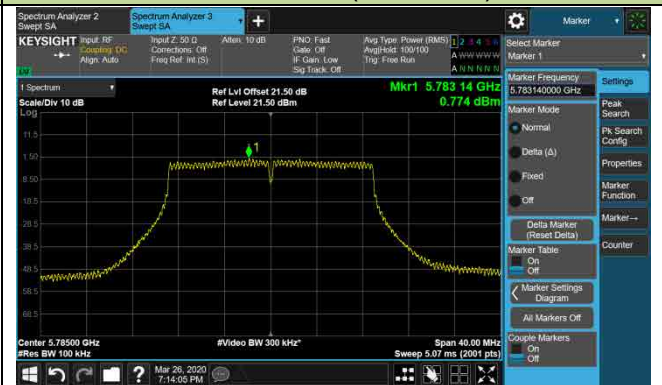
Channel 144 (5720MHz)



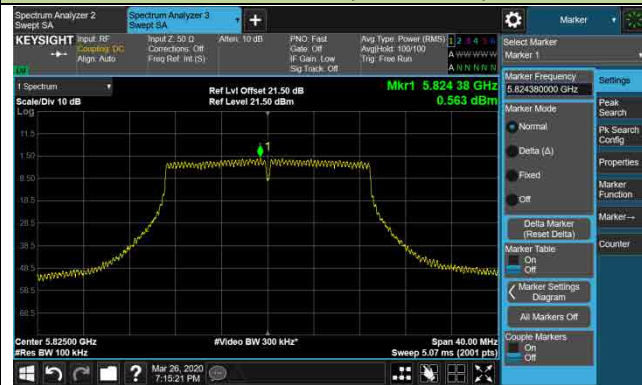
Channel 149 (5745MHz)



Channel 157 (5785MHz)

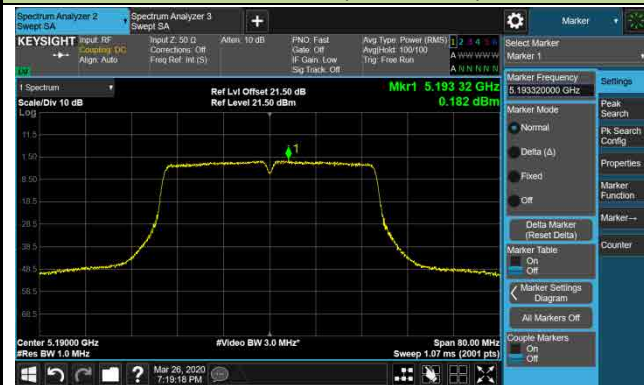


Channel 165 (5825MHz)

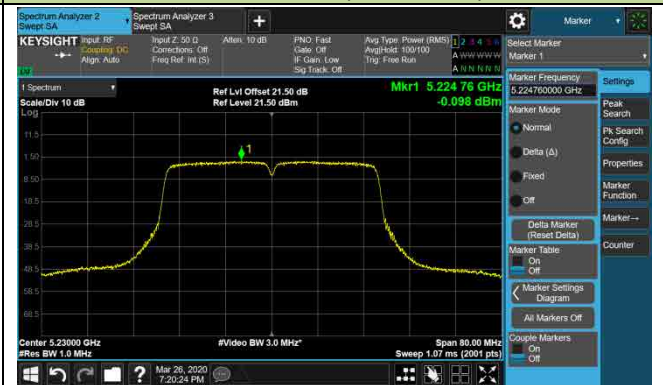


802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

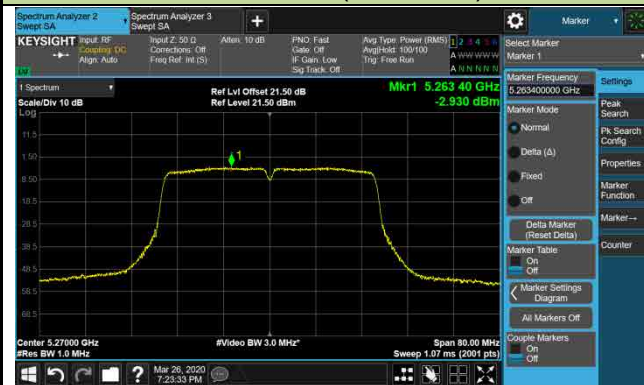
Channel 38 (5190MHz)



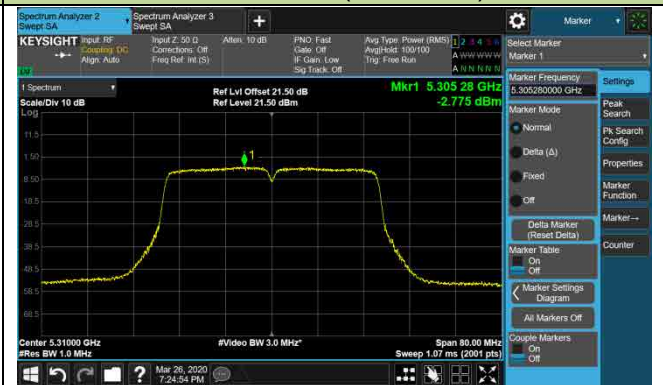
Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)

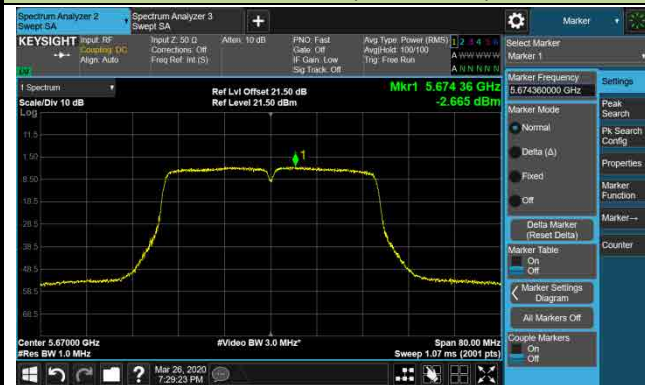


Channel 118 (5590MHz)

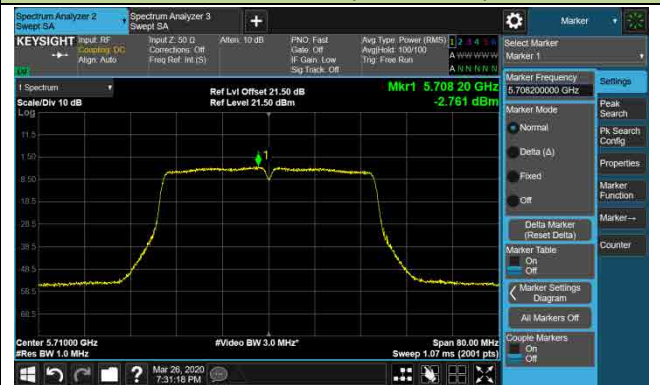


802.11ax-HE40 Power Spectral Density - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)

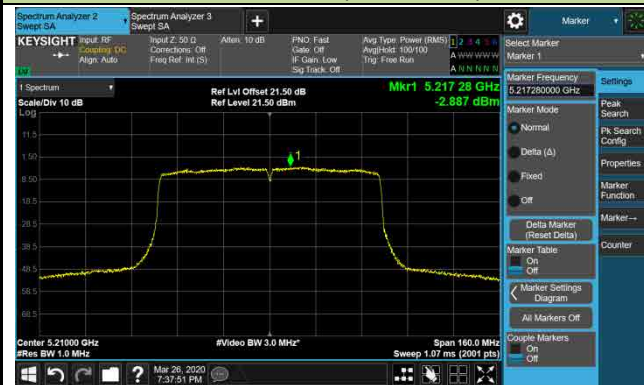


Channel 159 (5795MHz)



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

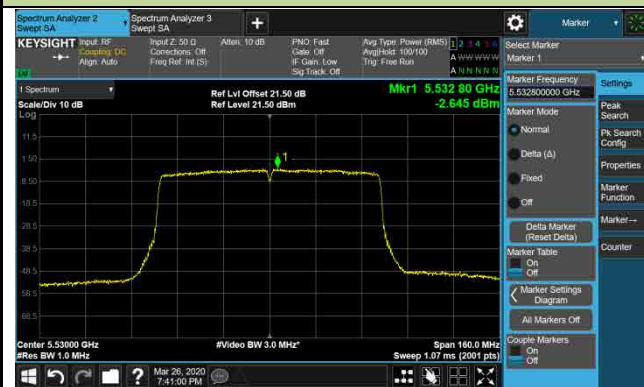
Channel 42 (5210MHz)



Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

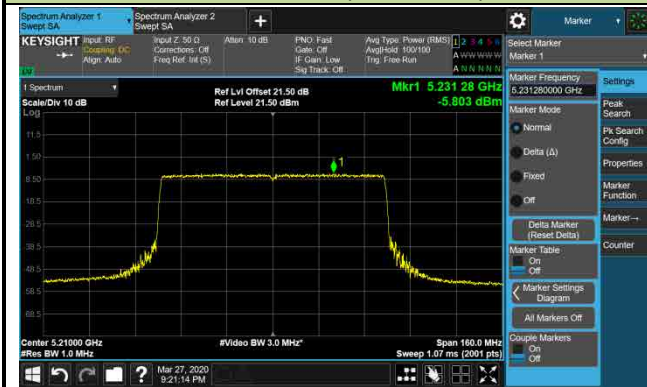


Channel 155 (5775MHz)



802.11ax-HE80+80 Power Spectral Density - Ant 0 / Ant 0 + 1 (Ant 0 + 1 + 2 + 3)

Channel 42 (5210MHz)



Channel 106 (5530MHz)



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

Channel 36 (5180MHz)



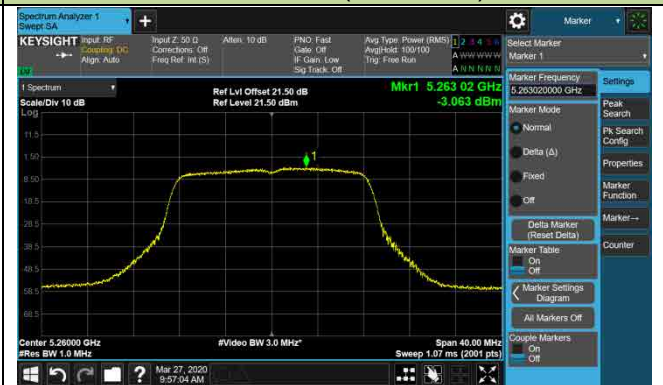
Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



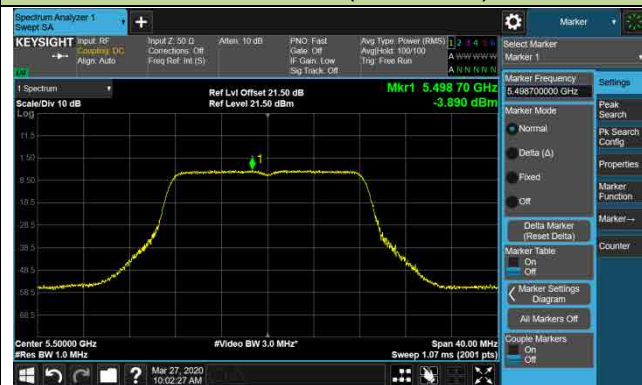
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

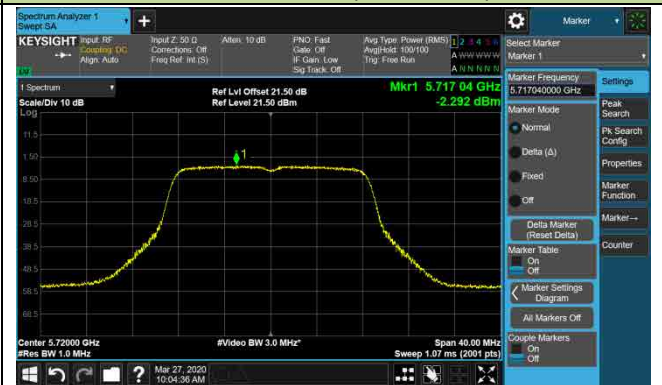


802.11a Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 140 (5700MHz)



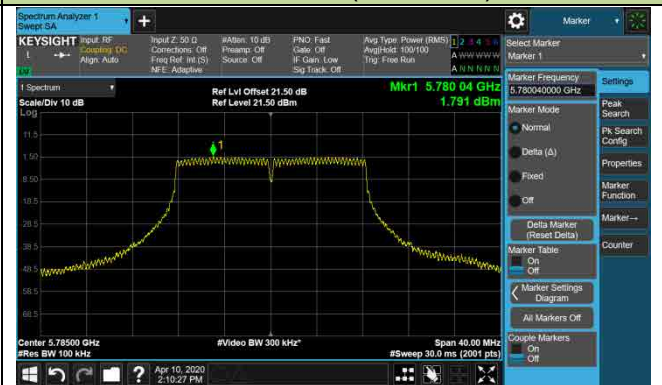
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)



802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

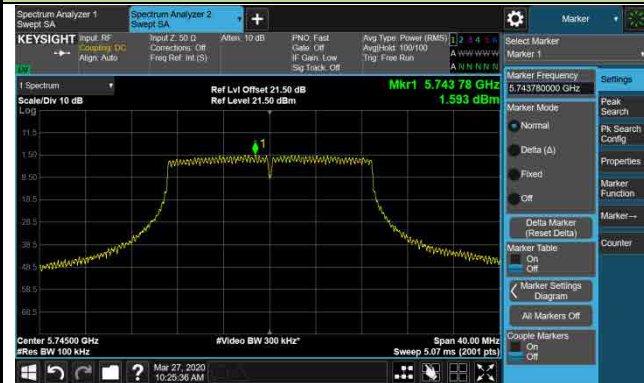
Channel 140 (5700MHz)



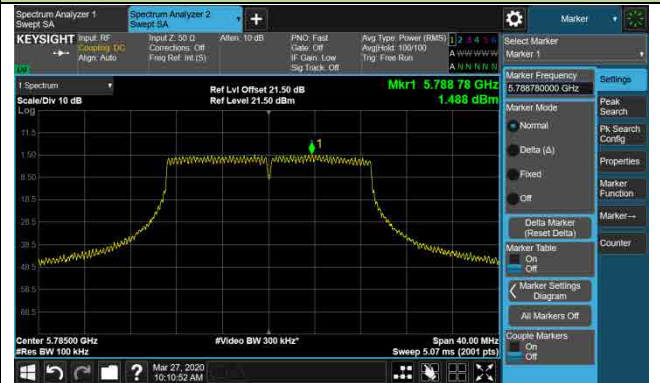
Channel 144 (5720MHz)



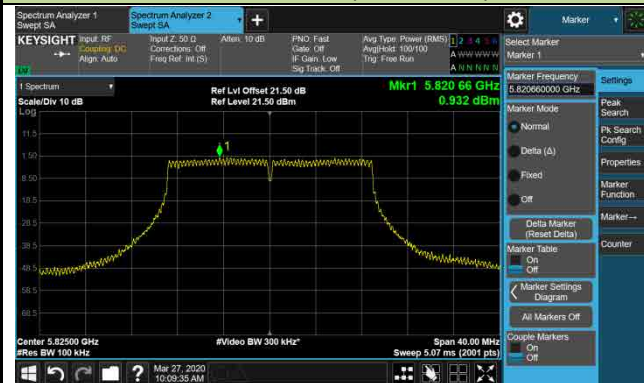
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)

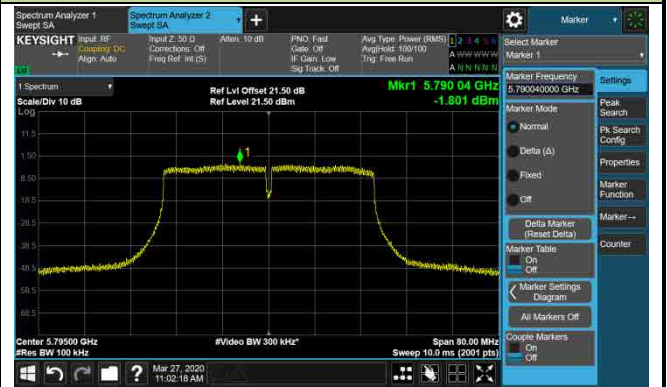


802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 151 (5755MHz)



Channel 159 (5795MHz)



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

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



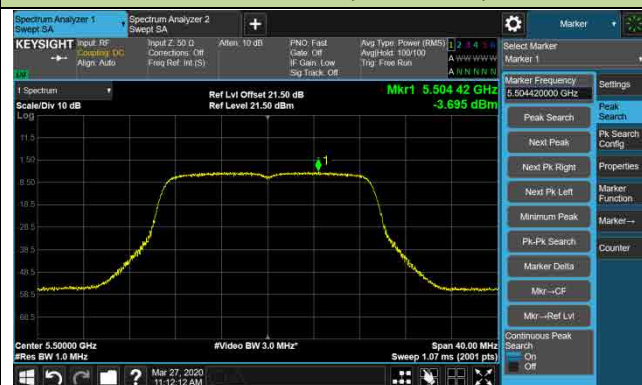
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)



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

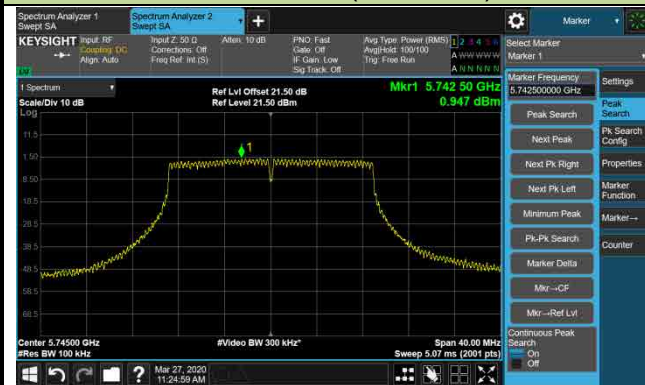
Channel 140 (5700MHz)



Channel 144 (5720MHz)



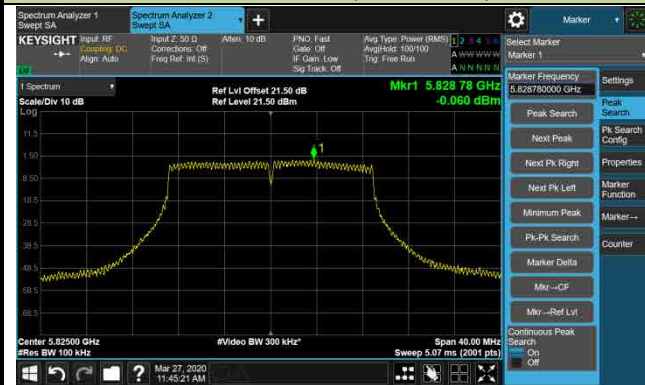
Channel 149 (5745MHz)



Channel 157 (5785MHz)

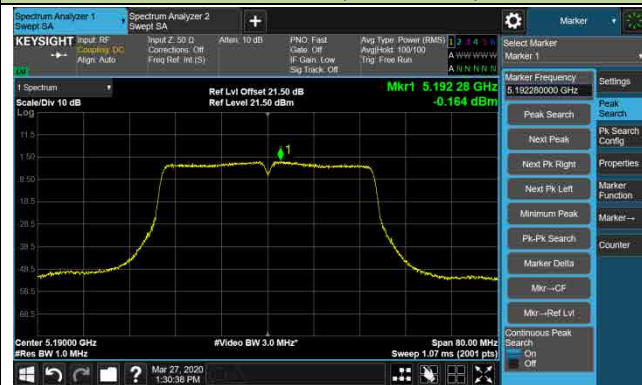


Channel 165 (5825MHz)



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

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



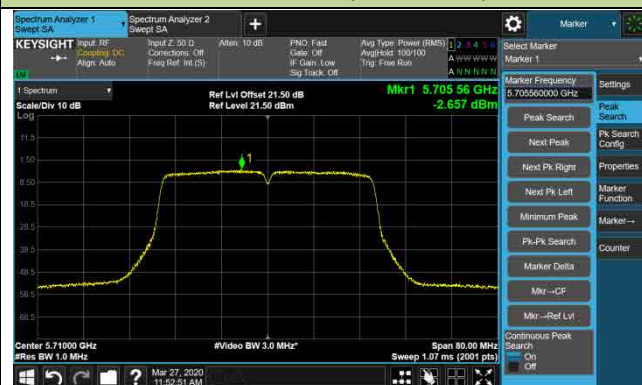
Channel 102 (5510MHz)



Channel 118 (5590MHz)



Channel 134 (5670MHz)

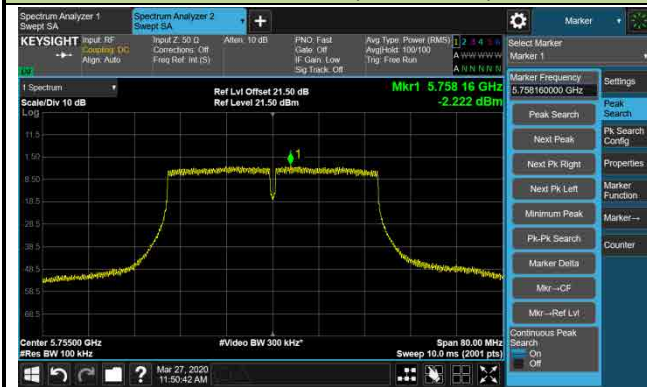


Channel 142 (5710MHz)

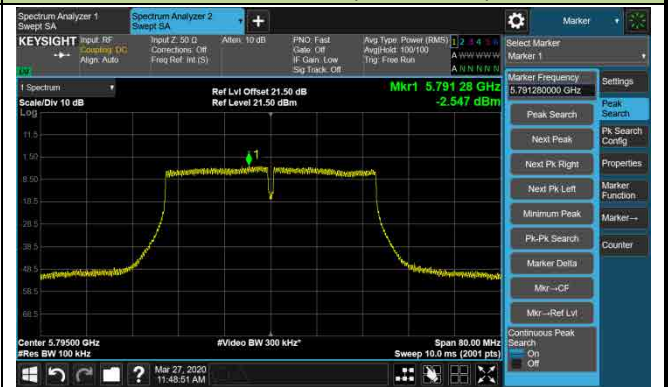


802.11ax-HE40 Power Spectral Density - Ant 1 / Ant 0 + 1 + 2 + 3

Channel 151 (5755MHz)



Channel 159 (5795MHz)



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

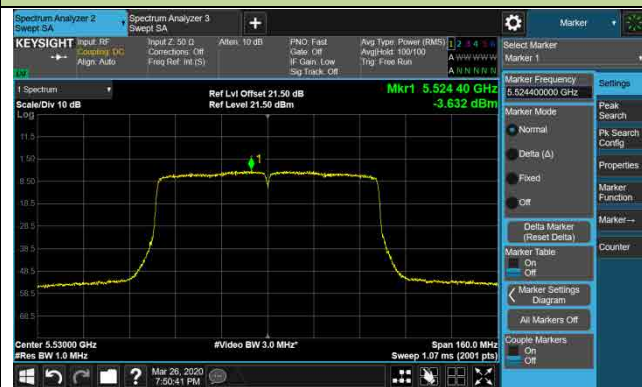
Channel 42 (5210MHz)



Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

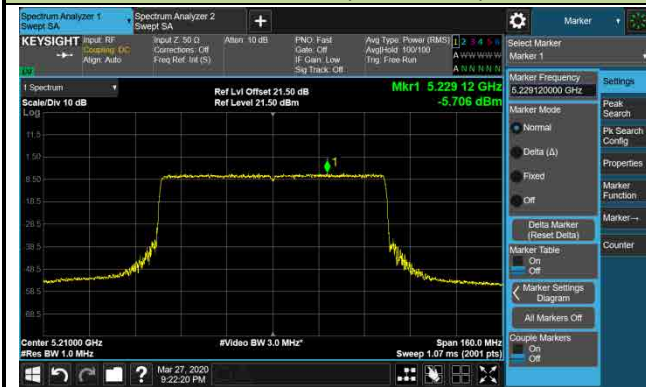


Channel 155 (5775MHz)



802.11ax-HE80+80 Power Spectral Density - Ant 1 / Ant 0 + 1 (Ant 0 + 1 + 2 + 3)

Channel 42 (5210MHz)



Channel 106 (5530MHz)



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

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



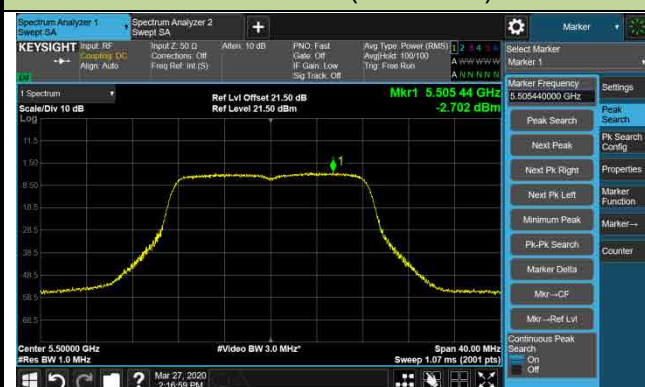
Channel 60 (5300MHz)



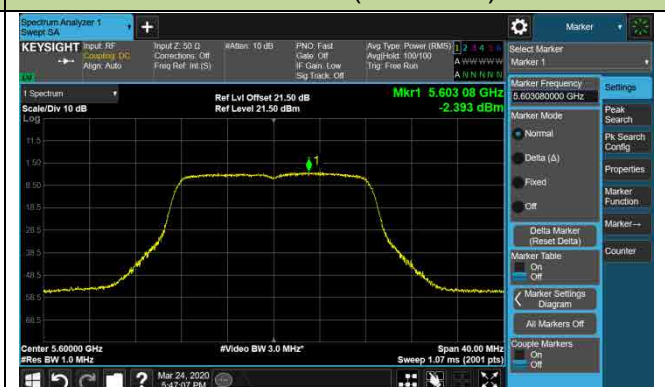
Channel 64 (5320MHz)



Channel 100 (5500MHz)

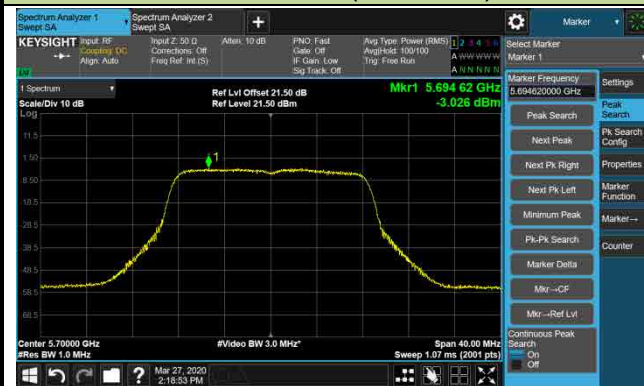


Channel 120 (5600MHz)



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

Channel 140 (5700MHz)



Channel 144 (5720MHz)



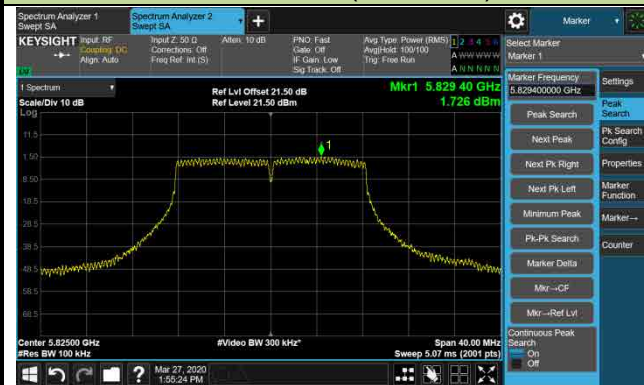
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11n-HT20 Power Spectral Density - Ant 2 / Ant 0 + 1 + 2 + 3

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



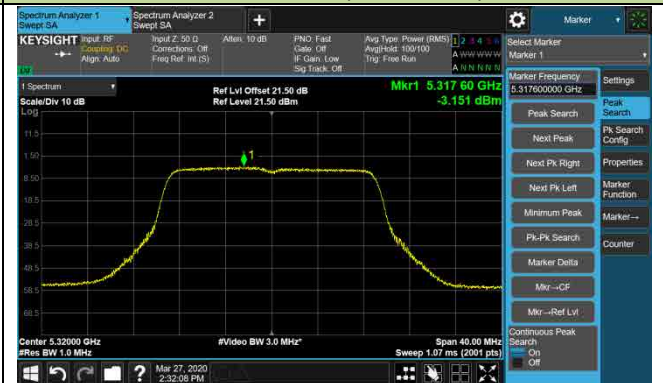
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 120 (5600MHz)

