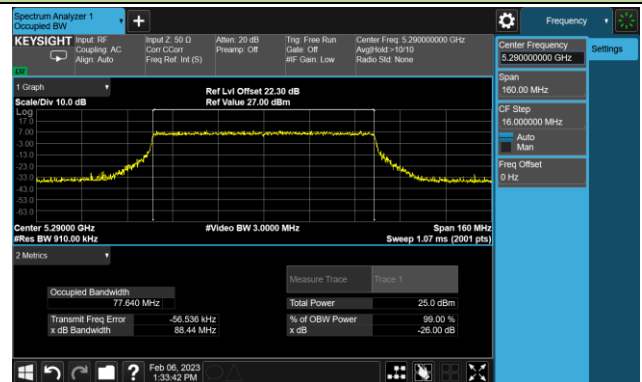


802.11ax-HE80 26dB Bandwidth

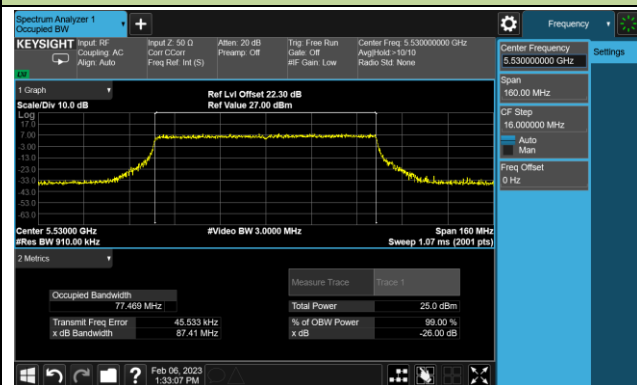
Channel 42 (5210MHz)



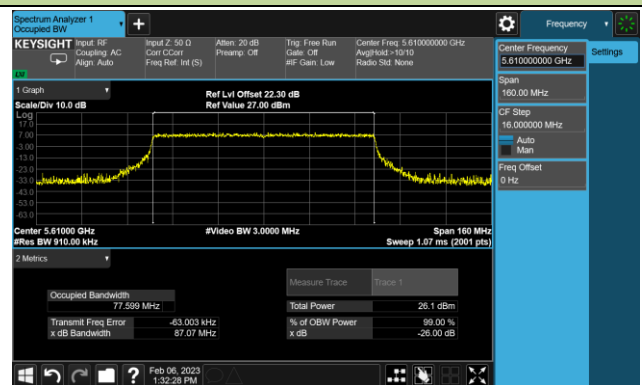
Channel 58 (5290MHz)



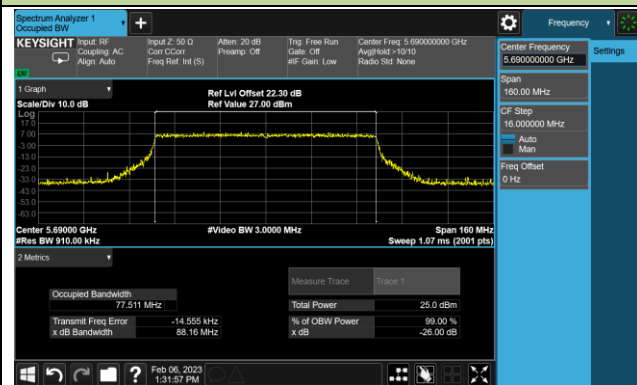
Channel 106 (5530MHz)



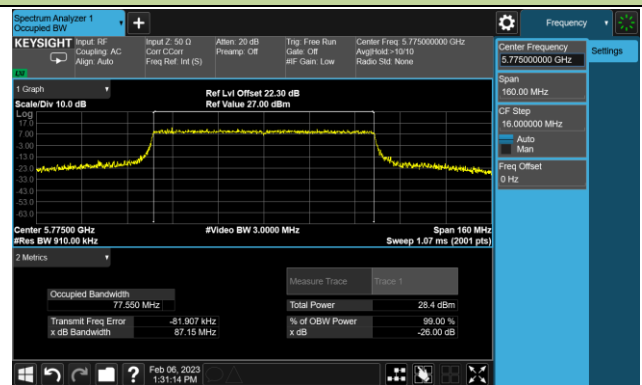
Channel 122 (5610MHz)



Channel 138 (5690MHz)

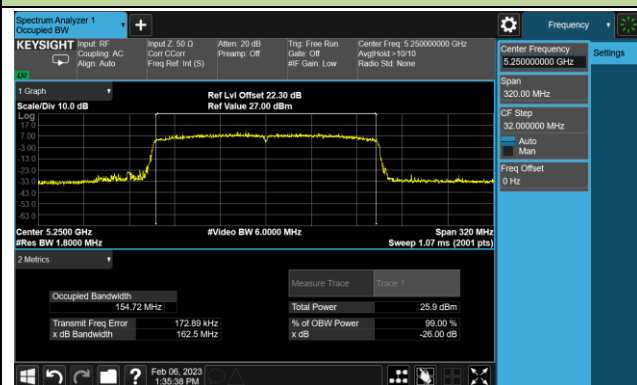


Channel 155 (5775MHz)

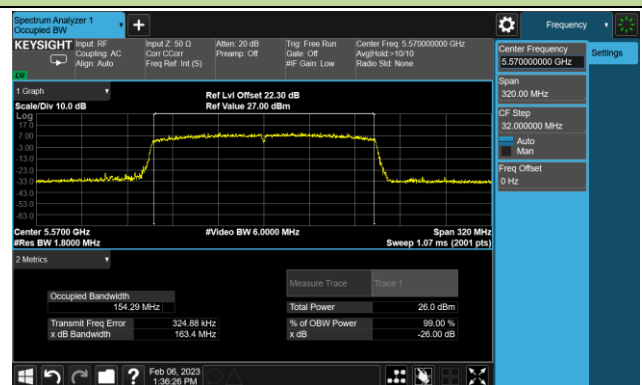


802.11ax-HE160 26dB Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



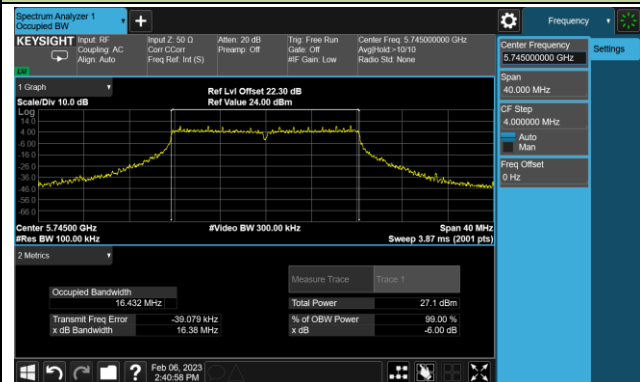
A.3 6dB Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Nandy Zhang
Test Date	2023-02-06		

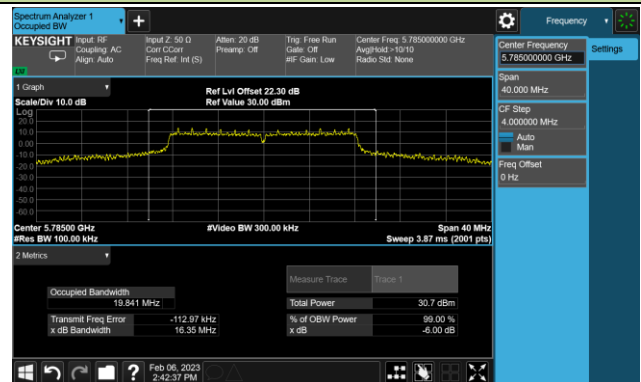
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	149	5745	16.38	≥0.5
11a	6Mbps	157	5785	16.35	≥0.5
11a	6Mbps	165	5825	16.35	≥0.5
11ac-VHT20	MCS5	149	5745	17.73	≥0.5
11ac-VHT20	MCS5	157	5785	17.60	≥0.5
11ac-VHT20	MCS5	165	5825	17.66	≥0.5
11ac-VHT40	MCS5	151	5755	36.53	≥0.5
11ac-VHT40	MCS5	159	5795	36.71	≥0.5
11ac-VHT80	MCS5	155	5775	76.55	≥0.5
11ax-HE20	MCS6	149	5745	19.09	≥0.5
11ax-HE20	MCS6	157	5785	19.06	≥0.5
11ax-HE20	MCS6	165	5825	18.99	≥0.5
11ax-HE40	MCS6	151	5755	38.13	≥0.5
11ax-HE40	MCS6	159	5795	38.11	≥0.5
11ax-HE80	MCS6	155	5775	78.21	≥0.5

802.11a 6dB Bandwidth

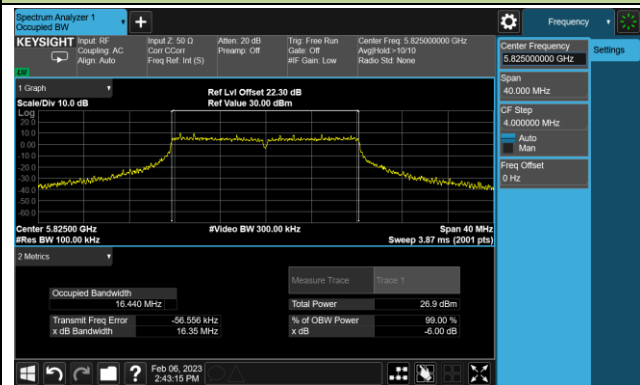
Channel 149 (5745MHz)



Channel 157 (5785MHz)

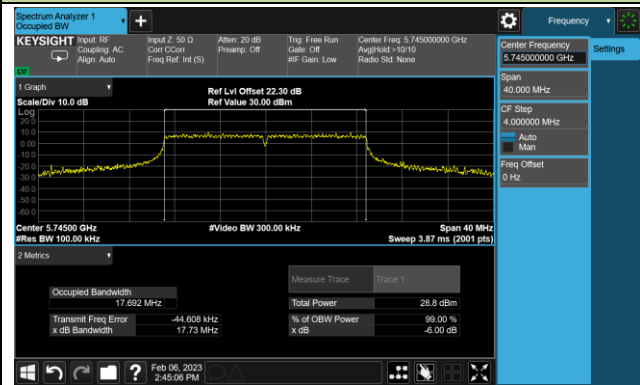


Channel 165 (5825MHz)

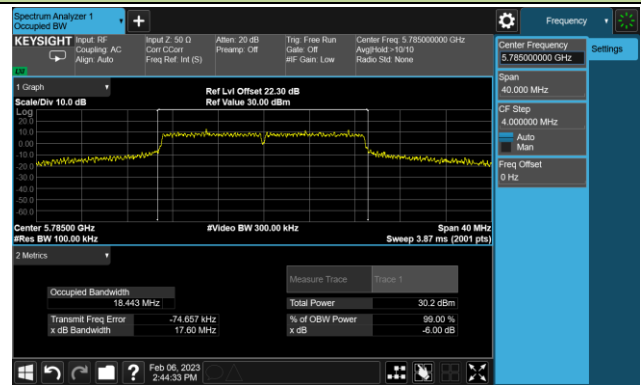


802.11ac-VHT20 6dB Bandwidth

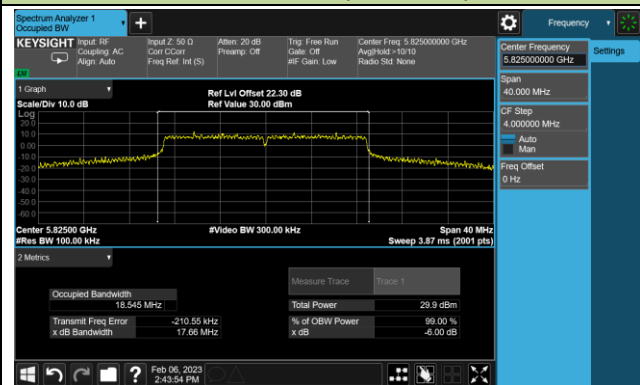
Channel 149 (5745MHz)



Channel 157 (5785MHz)

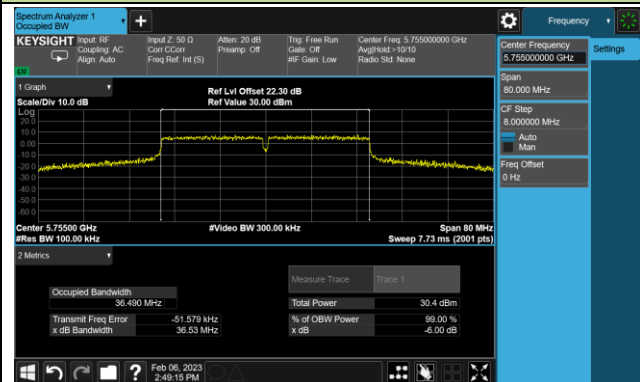


Channel 165 (5825MHz)

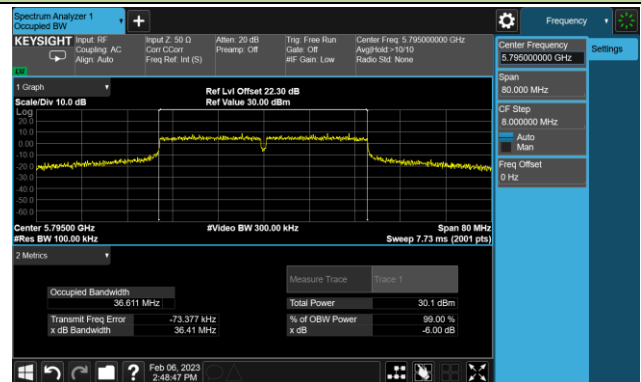


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

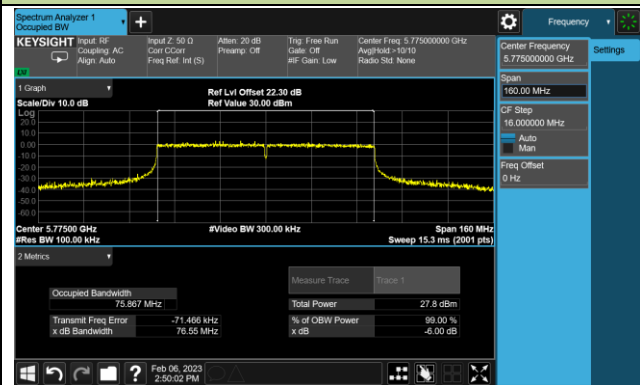


Channel 159 (5795MHz)



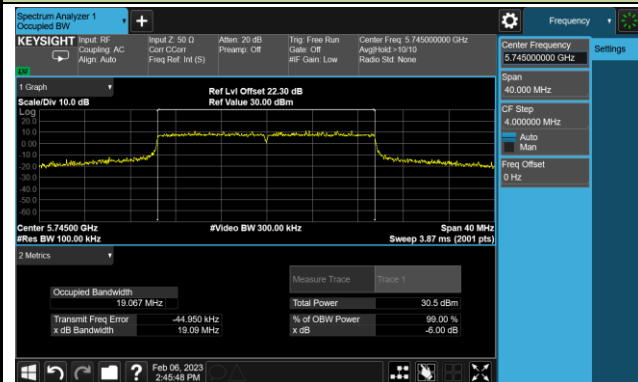
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

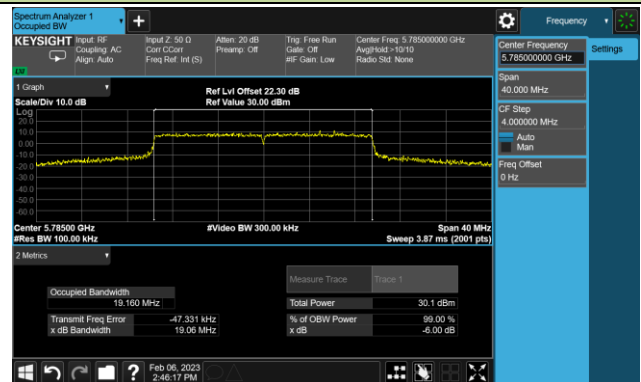


802.11ax-HE20 6dB Bandwidth

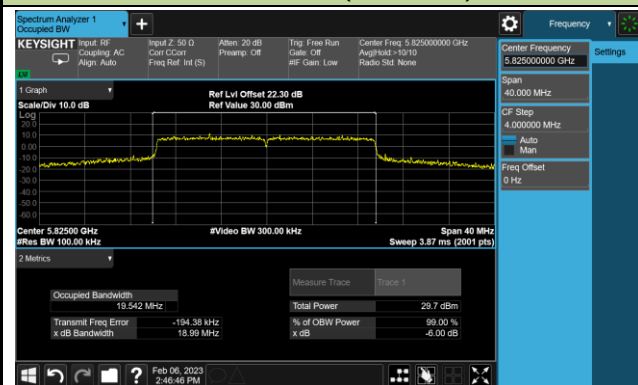
Channel 149 (5745MHz)



Channel 157 (5785MHz)

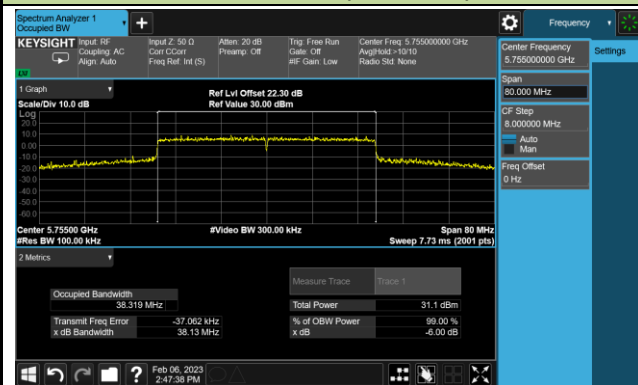


Channel 165 (5825MHz)

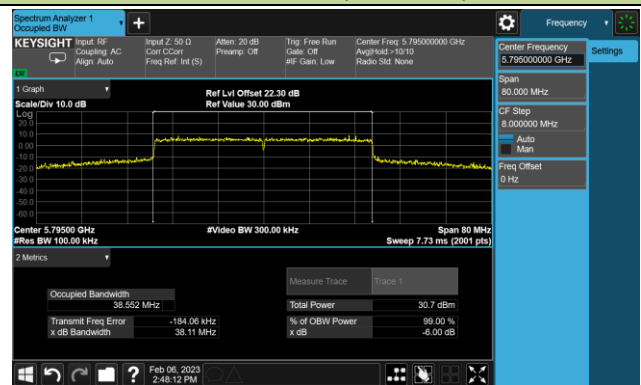


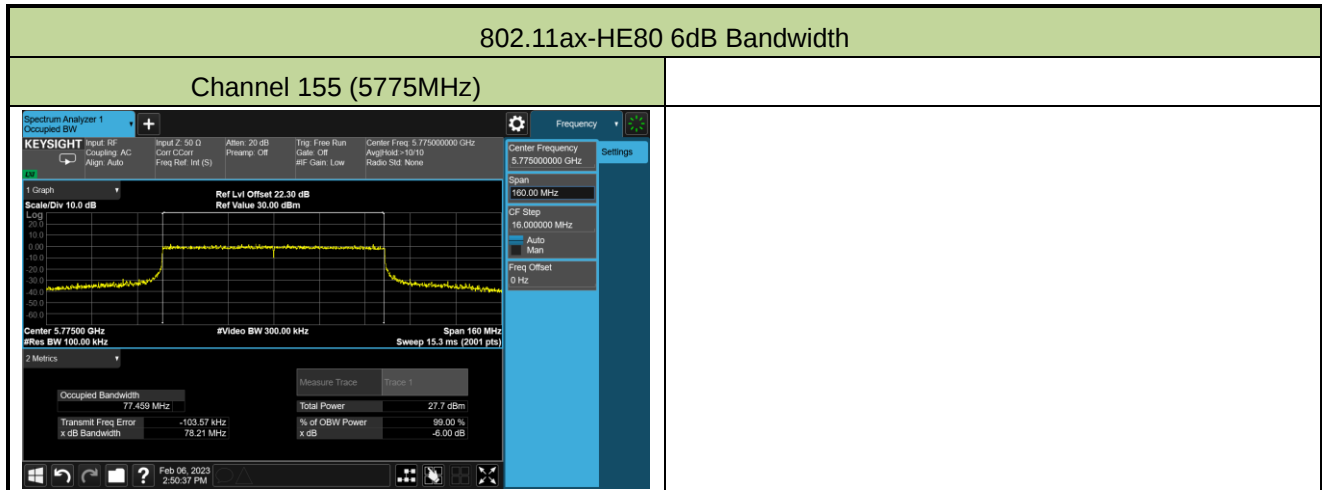
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





A.4 Output Power Test Result

Original Data

Test Site	SIP-TR1	Test Engineer	Nandy Zhang
Test Date	2023-02-06		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11a	6Mbps	36	5180	19.65	20.13	19.77	19.91	25.89	≤ 29.80
11a	6Mbps	44	5220	20.94	21.16	21.26	21.86	27.34	≤ 29.80
11a	6Mbps	48	5240	20.63	20.46	20.92	21.33	26.87	≤ 29.80
11a	6Mbps	52	5260	14.23	14.41	14.53	14.56	20.46	≤ 23.69
11a	6Mbps	60	5300	14.83	14.27	15.15	14.21	20.65	≤ 23.69
11a	6Mbps	64	5320	14.88	14.32	14.13	13.53	20.26	≤ 23.69
11a	6Mbps	100	5500	13.54	13.95	14.01	14.05	19.91	≤ 23.84
11a	6Mbps	116	5580	14.33	13.32	14.85	14.31	20.26	≤ 23.84
11a	6Mbps	140	5700	14.48	14.81	13.78	14.05	20.32	≤ 23.84
11a	6Mbps	144	5720	14.51	14.95	14.62	14.54	20.68	≤ 22.66
11a	6Mbps	149	5745	20.01	20.86	20.18	20.42	26.40	≤ 30.00
11a	6Mbps	157	5785	23.12	23.36	23.44	23.96	29.50	≤ 30.00
11a	6Mbps	165	5825	19.74	19.69	19.79	20.34	25.92	≤ 30.00
11ac-VHT20	MCS5	36	5180	19.25	19.61	19.05	19.21	25.31	≤ 30.00
11ac-VHT20	MCS5	44	5220	23.04	23.17	23.28	23.56	29.29	≤ 30.00
11ac-VHT20	MCS5	48	5240	23.24	23.11	23.64	23.94	29.52	≤ 30.00
11ac-VHT20	MCS5	52	5260	16.14	16.31	16.57	16.81	22.49	≤ 23.98
11ac-VHT20	MCS5	60	5300	17.33	16.71	17.36	16.54	23.02	≤ 23.98
11ac-VHT20	MCS5	64	5320	17.43	17.09	17.12	16.39	23.04	≤ 23.98
11ac-VHT20	MCS5	100	5500	16.39	17.01	17.25	17.40	23.05	≤ 23.98
11ac-VHT20	MCS5	116	5580	16.95	15.91	17.54	16.91	22.89	≤ 23.98
11ac-VHT20	MCS5	140	5700	14.84	15.33	14.35	14.23	20.73	≤ 23.98
11ac-VHT20	MCS5	144	5720	16.12	17.13	16.77	16.33	22.63	≤ 22.89
11ac-VHT20	MCS5	149	5745	21.01	21.38	21.24	21.53	27.31	≤ 30.00
11ac-VHT20	MCS5	157	5785	22.94	23.04	23.26	23.96	29.34	≤ 30.00
11ac-VHT20	MCS5	165	5825	22.18	21.58	22.01	22.76	28.17	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11ac-VHT40	MCS5	38	5190	15.75	16.01	15.89	15.64	21.85	≤ 30.00
11ac-VHT40	MCS5	46	5230	22.45	23.04	22.22	22.87	28.68	≤ 30.00
11ac-VHT40	MCS5	54	5270	17.25	17.42	17.52	17.64	23.48	≤ 23.98
11ac-VHT40	MCS5	62	5310	17.28	17.04	16.92	17.22	23.14	≤ 23.98
11ac-VHT40	MCS5	102	5510	15.75	16.17	16.24	16.67	22.24	≤ 23.98
11ac-VHT40	MCS5	110	5550	17.64	17.04	18.41	17.81	23.77	≤ 23.98
11ac-VHT40	MCS5	134	5670	17.28	17.72	16.73	17.16	23.26	≤ 23.98
11ac-VHT40	MCS5	142	5710	17.64	18.14	17.68	17.56	23.78	≤ 23.98
11ac-VHT40	MCS5	151	5755	22.79	22.74	22.43	22.87	28.73	≤ 30.00
11ac-VHT40	MCS5	159	5795	21.78	22.11	21.89	22.28	28.04	≤ 30.00
11ac-VHT80	MCS5	42	5210	16.28	16.54	16.15	15.44	22.14	≤ 30.00
11ac-VHT80	MCS5	58	5290	17.28	17.08	17.21	17.16	23.20	≤ 23.98
11ac-VHT80	MCS5	106	5530	16.31	16.52	17.29	16.69	22.74	≤ 23.98
11ac-VHT80	MCS5	122	5610	18.06	17.01	18.14	17.75	23.78	≤ 23.98
11ac-VHT80	MCS5	138	5690	18.14	18.12	17.62	17.25	23.82	≤ 23.98
11ac-VHT80	MCS5	155	5775	19.42	19.45	19.89	20.50	25.86	≤ 30.00
11ac-VHT160	MCS0	50	5250	16.51	16.45	16.94	17.02	22.76	≤ 23.98
11ac-VHT160	MCS0	114	5570	14.07	13.21	14.55	13.80	19.95	≤ 23.98
11ax-HE20	MCS6	36	5180	17.99	18.45	17.91	18.05	24.13	≤ 30.00
11ax-HE20	MCS6	44	5220	23.74	23.31	23.66	23.88	29.67	≤ 30.00
11ax-HE20	MCS6	48	5240	23.14	23.21	23.67	23.81	29.49	≤ 30.00
11ax-HE20	MCS6	52	5260	17.62	17.53	17.53	17.92	23.67	≤ 23.98
11ax-HE20	MCS6	60	5300	17.79	17.15	17.61	16.83	23.38	≤ 23.98
11ax-HE20	MCS6	64	5320	17.65	17.53	17.44	16.72	23.37	≤ 23.98
11ax-HE20	MCS6	100	5500	16.11	16.96	16.39	16.18	22.44	≤ 23.98
11ax-HE20	MCS6	116	5580	17.15	16.31	18.01	17.08	23.20	≤ 23.98
11ax-HE20	MCS6	140	5700	14.44	15.11	14.09	14.18	20.49	≤ 23.98
11ax-HE20	MCS6	144	5720	16.56	17.07	16.67	16.41	22.71	≤ 22.98
11ax-HE20	MCS6	149	5745	22.02	22.43	22.21	22.28	28.26	≤ 30.00
11ax-HE20	MCS6	157	5785	21.98	22.08	22.03	22.68	28.22	≤ 30.00
11ax-HE20	MCS6	165	5825	21.94	21.76	22.12	22.45	28.10	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11ax-HE40	MCS6	38	5190	15.62	15.45	15.74	15.77	21.67	≤ 30.00
11ax-HE40	MCS6	46	5230	22.44	22.77	22.67	23.12	28.78	≤ 30.00
11ax-HE40	MCS6	54	5270	16.96	17.22	17.33	17.35	23.24	≤ 23.98
11ax-HE40	MCS6	62	5310	17.18	17.11	17.04	16.88	23.07	≤ 23.98
11ax-HE40	MCS6	102	5510	16.78	16.96	17.68	17.37	23.23	≤ 23.98
11ax-HE40	MCS6	110	5550	17.35	16.85	18.21	17.46	23.52	≤ 23.98
11ax-HE40	MCS6	134	5670	17.16	16.78	16.40	16.55	22.75	≤ 23.98
11ax-HE40	MCS6	142	5710	17.46	17.86	17.31	17.22	23.49	≤ 23.98
11ax-HE40	MCS6	151	5755	23.32	23.57	23.43	23.78	29.55	≤ 30.00
11ax-HE40	MCS6	159	5795	22.04	22.48	22.08	23.07	28.46	≤ 30.00
11ax-HE80	MCS6	42	5210	15.58	15.42	15.45	16.03	21.65	≤ 30.00
11ax-HE80	MCS6	58	5290	16.91	17.15	17.19	16.86	23.05	≤ 23.98
11ax-HE80	MCS6	106	5530	16.11	16.14	16.99	16.31	22.42	≤ 23.98
11ax-HE80	MCS6	122	5610	17.99	17.11	18.38	17.87	23.88	≤ 23.98
11ax-HE80	MCS6	138	5690	17.91	18.17	17.48	17.13	23.71	≤ 23.98
11ax-HE80	MCS6	155	5775	19.13	19.18	19.57	20.12	25.54	≤ 30.00
11ax-HE160	MCS0	50	5250	17.03	16.89	17.34	17.28	23.16	≤ 23.98
11ax-HE160	MCS0	114	5570	17.08	16.53	17.85	17.12	23.19	≤ 23.98

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: For 802.11a-NII-1 band, Power Limit (dBm) = $30 - (6.2 - 6) = 29.80\text{dBm}$

For 802.11a-NII-2a band, Power Limit (dBm) = $11 + 10 \cdot \log(19.46) - (6.2 - 6) = 23.69\text{dBm}$

For 802.11a-NII-2c band, Power Limit (dBm) = $11 + 10 \cdot \log(19.23) = 23.84\text{dBm}$

For 5720MHz, Power Limit = $11 + 10 \cdot \log(5 + 26\text{dBc}/2)$.

Verified Data

Test Site	SIP-TR1	Test Engineer	Chase Zhu
Test Date	2023-05-14		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11a	6Mbps	44	5220	20.75	21.06	21.02	21.49	27.11	≤ 29.80
11a	6Mbps	60	5300	14.37	13.67	15.06	13.64	20.25	≤ 23.69
11a	6Mbps	144	5720	13.58	14.28	13.75	14.52	20.07	≤ 22.66
11a	6Mbps	157	5785	23.07	23.03	22.80	23.56	29.14	≤ 30.00
11ac-VHT20	MCS5	48	5240	22.49	22.71	23.20	23.37	28.98	≤ 30.00
11ac-VHT20	MCS5	64	5320	16.52	16.19	16.67	15.79	22.33	≤ 23.98
11ac-VHT20	MCS5	100	5500	16.25	16.85	16.73	16.81	22.69	≤ 23.98
11ac-VHT20	MCS5	157	5785	22.36	23.40	22.52	23.56	29.01	≤ 30.00
11ac-VHT40	MCS5	46	5230	22.64	22.67	23.26	23.30	29.00	≤ 30.00
11ac-VHT40	MCS5	54	5270	16.97	17.27	16.68	17.25	23.07	≤ 23.98
11ac-VHT40	MCS5	142	5710	16.67	17.41	17.05	16.89	23.03	≤ 23.98
11ac-VHT40	MCS5	151	5755	22.26	22.65	21.44	22.02	28.14	≤ 30.00
11ac-VHT80	MCS5	42	5210	15.82	16.51	15.70	15.18	21.85	≤ 30.00
11ac-VHT80	MCS5	58	5290	16.95	16.59	16.37	16.66	22.67	≤ 23.98
11ac-VHT80	MCS5	138	5690	17.53	18.00	16.80	16.71	23.31	≤ 23.98
11ac-VHT80	MCS5	155	5775	18.48	18.83	19.32	19.87	25.18	≤ 30.00
11ac-VHT160	MCS0	50	5250	16.50	16.42	16.24	16.74	22.50	≤ 23.98
11ac-VHT160	MCS0	114	5570	13.73	12.56	14.11	13.65	19.57	≤ 23.98
11ax-HE20	MCS6	44	5220	23.65	22.65	23.51	23.20	29.29	≤ 30.00
11ax-HE20	MCS6	52	5260	16.86	16.92	17.10	17.57	23.14	≤ 23.98
11ax-HE20	MCS6	116	5580	16.61	15.59	17.06	16.10	22.40	≤ 23.98
11ax-HE20	MCS6	149	5745	21.58	21.73	21.33	21.83	27.64	≤ 30.00
11ax-HE40	MCS6	46	5230	22.60	22.48	23.33	23.84	29.12	≤ 30.00
11ax-HE40	MCS6	54	5270	16.37	16.49	17.30	16.52	22.71	≤ 23.98
11ax-HE40	MCS6	110	5550	16.48	16.04	17.31	16.49	22.63	≤ 23.98
11ax-HE40	MCS6	151	5755	22.53	23.26	23.22	23.61	29.19	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11ax-HE80	MCS6	42	5210	15.27	14.73	15.36	15.15	21.15	≤ 30.00
11ax-HE80	MCS6	58	5290	16.79	16.82	16.58	16.40	22.67	≤ 23.98
11ax-HE80	MCS6	122	5610	17.52	16.98	17.83	17.07	23.38	≤ 23.98
11ax-HE80	MCS6	155	5775	18.27	18.58	18.88	19.50	24.85	≤ 30.00
11ax-HE160	MCS0	50	5250	16.28	16.29	17.02	16.71	22.61	≤ 23.98
11ax-HE160	MCS0	114	5570	16.65	15.70	17.80	16.38	22.72	≤ 23.98

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: For 802.11a-NII-1 band, Power Limit (dBm) = $30 - (6.2 - 6) = 29.80\text{dBm}$

For 802.11a-NII-2a band, Power Limit (dBm) = $11 + 10 \cdot \log(19.46) - (6.2 - 6) = 23.69\text{dBm}$

For 802.11a-NII-2c band, Power Limit (dBm) = $11 + 10 \cdot \log(19.23) = 23.84\text{dBm}$

For 5720MHz, Power Limit = $11 + 10 \cdot \log(5 + 26\text{dBc}/2)$.

A.5 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Nandy Zhang
Test Date	2022-12-22~2023-02-06		
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11a	6Mbps	36	5180	8.55	8.60	8.30	8.26	95.54	14.65	15.42
11a	6Mbps	44	5220	7.90	9.62	7.88	9.87	95.54	15.13	15.42
11a	6Mbps	48	5240	8.77	8.80	7.69	9.44	95.54	14.94	15.42
11a	6Mbps	52	5260	2.67	2.98	2.85	3.05	95.54	9.11	9.42
11a	6Mbps	60	5300	3.21	2.80	3.40	2.60	95.54	9.23	9.42
11a	6Mbps	64	5320	3.02	3.16	2.65	1.87	95.54	8.92	9.42
11a	6Mbps	100	5500	1.72	2.22	2.24	2.63	95.54	8.43	8.99
11a	6Mbps	116	5580	3.07	1.71	3.18	2.53	95.54	8.88	8.99
11a	6Mbps	140	5700	2.65	2.71	1.94	2.31	95.54	8.63	8.99
11a	6Mbps	144	5720	2.30	2.95	2.63	2.73	95.54	8.88	8.99
11ac-VHT20	MCS5	36	5180	6.69	6.93	6.72	6.92	92.33	13.18	17.00
11ac-VHT20	MCS5	44	5220	9.81	10.27	10.19	10.12	92.33	16.47	17.00
11ac-VHT20	MCS5	48	5240	10.28	10.14	10.88	10.55	92.33	16.84	17.00
11ac-VHT20	MCS5	52	5260	3.63	4.03	4.32	4.56	92.33	10.52	11.00
11ac-VHT20	MCS5	60	5300	4.35	4.07	4.74	3.98	92.33	10.66	11.00
11ac-VHT20	MCS5	64	5320	4.78	4.70	4.50	4.02	92.33	10.88	11.00
11ac-VHT20	MCS5	100	5500	3.81	4.00	4.61	4.76	92.33	10.68	11.00
11ac-VHT20	MCS5	116	5580	4.22	3.15	4.90	3.72	92.33	10.41	11.00
11ac-VHT20	MCS5	140	5700	1.46	2.15	1.10	1.09	92.33	7.84	11.00
11ac-VHT20	MCS5	144	5720	3.77	4.58	4.02	4.06	92.33	10.48	11.00
11ac-VHT40	MCS5	38	5190	0.57	0.62	0.96	0.38	96.45	6.81	17.00
11ac-VHT40	MCS5	46	5230	7.42	7.45	7.96	8.19	96.45	13.94	17.00
11ac-VHT40	MCS5	54	5270	1.33	1.66	1.97	1.77	96.45	7.86	11.00
11ac-VHT40	MCS5	62	5310	2.29	2.46	2.51	1.67	96.45	8.42	11.00
11ac-VHT40	MCS5	102	5510	0.21	0.61	1.16	0.59	96.45	6.83	11.00
11ac-VHT40	MCS5	110	5550	1.66	0.83	2.28	1.69	96.45	7.82	11.00
11ac-VHT40	MCS5	134	5670	1.88	1.46	0.94	1.39	96.45	7.61	11.00
11ac-VHT40	MCS5	142	5710	1.57	1.89	1.41	1.21	96.45	7.70	11.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11ac-VHT80	MCS5	42	5210	-2.99	-3.71	-2.92	-2.72	90.07	3.41	17.00
11ac-VHT80	MCS5	58	5290	-1.68	-1.31	-1.62	-1.91	90.07	4.85	11.00
11ac-VHT80	MCS5	106	5530	-2.86	-2.61	-1.88	-2.53	90.07	4.02	11.00
11ac-VHT80	MCS5	122	5610	-0.83	-2.37	-0.93	-1.39	90.07	5.14	11.00
11ac-VHT80	MCS5	138	5690	-1.02	-0.91	-1.40	-2.04	90.07	5.15	11.00
11ac-VHT160	MCS0	50	5250	-4.15	-4.57	-3.87	-3.79	91.90	2.30	11.00
11ac-VHT160	MCS0	114	5570	-6.75	-8.02	-6.56	-7.27	91.90	-0.73	11.00
11ax-HE20	MCS6	36	5180	4.62	5.21	4.77	5.14	92.93	11.28	17.00
11ax-HE20	MCS6	44	5220	10.17	10.28	10.30	10.59	92.93	16.68	17.00
11ax-HE20	MCS6	48	5240	9.95	10.03	10.42	10.82	92.93	16.66	17.00
11ax-HE20	MCS6	52	5260	3.85	4.52	4.68	4.97	92.93	10.86	11.00
11ax-HE20	MCS6	60	5300	4.52	4.26	4.83	4.21	92.93	10.80	11.00
11ax-HE20	MCS6	64	5320	4.85	4.82	4.63	3.86	92.93	10.89	11.00
11ax-HE20	MCS6	100	5500	3.29	3.83	4.08	4.04	92.93	10.16	11.00
11ax-HE20	MCS6	116	5580	4.28	3.53	4.92	4.38	92.93	10.64	11.00
11ax-HE20	MCS6	140	5700	1.57	1.97	0.96	1.31	92.93	7.81	11.00
11ax-HE20	MCS6	144	5720	3.75	4.62	3.91	4.23	92.93	10.48	11.00
11ax-HE40	MCS6	38	5190	0.00	-0.32	0.04	-0.07	92.53	6.27	17.00
11ax-HE40	MCS6	46	5230	7.12	7.02	7.36	7.59	92.53	13.63	17.00
11ax-HE40	MCS6	54	5270	0.94	1.45	1.55	1.58	92.53	7.75	11.00
11ax-HE40	MCS6	62	5310	1.77	1.64	1.73	1.15	92.53	7.93	11.00
11ax-HE40	MCS6	102	5510	0.84	1.33	1.77	1.80	92.53	7.81	11.00
11ax-HE40	MCS6	110	5550	1.42	0.81	2.10	1.54	92.53	7.85	11.00
11ax-HE40	MCS6	134	5670	1.15	0.59	0.37	0.29	92.53	6.97	11.00
11ax-HE40	MCS6	142	5710	1.25	1.76	1.39	1.20	92.53	7.77	11.00
11ax-HE80	MCS6	42	5210	-3.25	-4.13	-3.38	-3.18	91.86	2.92	17.00
11ax-HE80	MCS6	58	5290	-1.66	-1.50	-1.55	-1.92	91.86	4.73	11.00
11ax-HE80	MCS6	106	5530	-2.84	-2.55	-1.77	-2.35	91.86	4.03	11.00
11ax-HE80	MCS6	122	5610	-0.63	-1.97	-0.56	-0.96	91.86	5.39	11.00
11ax-HE80	MCS6	138	5690	-1.13	-1.04	-1.50	-2.03	91.86	4.98	11.00
11ax-HE160	MCS0	50	5250	-3.73	-4.19	-3.49	-3.37	92.22	2.69	11.00
11ax-HE160	MCS0	114	5570	-3.67	-4.38	-3.07	-3.50	92.22	2.74	11.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle $\geq 98\%$, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\}$.

Note 2: For 802.11a-NII-1 band, PSD Limit (dBm/MHz) = $17 - (7.58 - 6) = 15.42 \text{ dBm/MHz}$.

For 802.11a-NII-2a band, PSD Limit (dBm/MHz) = $11 - (7.58 - 6) = 9.42 \text{ dBm/MHz}$.

For 802.11a-NII-2c band, PSD Limit (dBm/MHz) = $11 - (8.01 - 6) = 8.99 \text{ dBm/MHz}$.

Test Site	SIP-TR1	Test Engineer	Nandy Zhang
Test Date	2023-01-09~2023-02-06		
Test Item	Power Spectral Density (UNII-Band 3)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ 510KHz)				Duty Cycle (%)	Total PSD (dBm/ 510KHz)	PSD Limit (dBm/ 500KHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11a	6Mbps	149	5745	4.95	5.60	5.17	5.46	95.54	11.52	≤ 27.99
11a	6Mbps	157	5785	8.00	8.38	8.42	8.77	95.54	14.62	≤ 27.99
11a	6Mbps	165	5825	4.95	4.66	4.92	5.64	95.54	11.28	≤ 27.99
11ac-VHT20	MCS5	149	5745	4.89	5.59	5.21	5.42	92.33	11.65	≤ 30.00
11ac-VHT20	MCS5	157	5785	7.20	7.28	7.00	7.69	92.33	13.67	≤ 30.00
11ac-VHT20	MCS5	165	5825	6.36	6.04	6.54	7.17	92.33	12.91	≤ 30.00
11ac-VHT40	MCS5	151	5755	4.15	4.40	4.30	4.37	96.45	10.49	≤ 30.00
11ac-VHT40	MCS5	159	5795	3.17	3.65	3.62	4.38	96.45	9.90	≤ 30.00
11ac-VHT80	MCS5	155	5775	-2.37	-2.39	-2.11	-1.68	90.07	4.34	≤ 30.00
11ax-HE20	MCS6	149	5745	6.26	6.47	6.57	6.44	92.93	12.78	≤ 30.00
11ax-HE20	MCS6	157	5785	6.19	6.47	6.54	7.05	92.93	12.91	≤ 30.00
11ax-HE20	MCS6	165	5825	6.21	5.66	6.26	6.61	92.93	12.54	≤ 30.00
11ax-HE40	MCS6	151	5755	4.60	4.95	4.60	5.05	92.53	11.16	≤ 30.00
11ax-HE40	MCS6	159	5795	3.62	3.80	3.58	4.70	92.53	10.31	≤ 30.00
11ax-HE80	MCS6	155	5775	-2.01	-2.34	-1.97	-1.63	91.86	4.41	≤ 30.00

Note 1:

When EUT duty cycle < 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\}$.

Note 2: For 802.11a-NII-3 band, PSD Limit (dBm/500kHz) = 30-(8.01-6) = 27.99dBm/500kHz.

802.11a Power Spectral Density- Ant 0

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



802.11a Power Spectral Density- Ant 0

Channel 140 (5700MHz)



Channel 144(5720MHz)



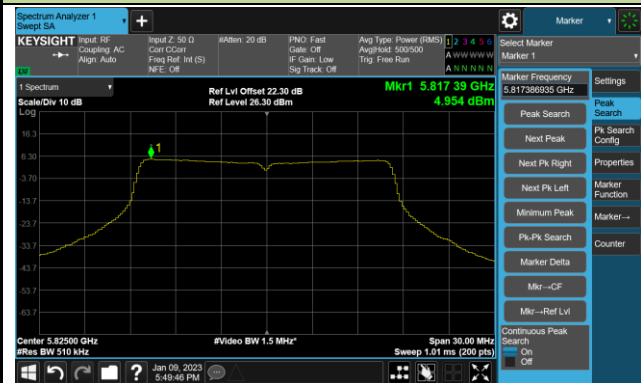
Channel 149 (5745MHz)



Channel 157 (5785MHz)

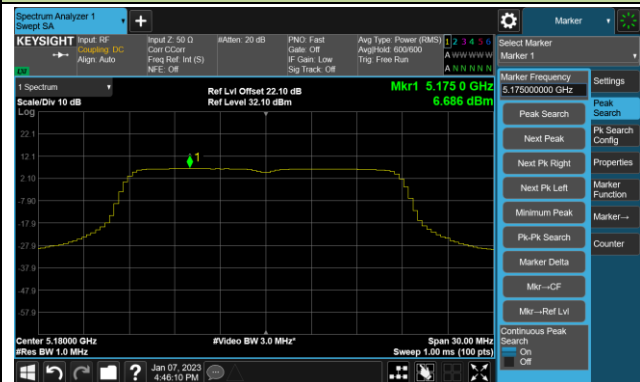


Channel 165 (5825MHz)



802.11ac-VHT20 Power Spectral Density- Ant 0

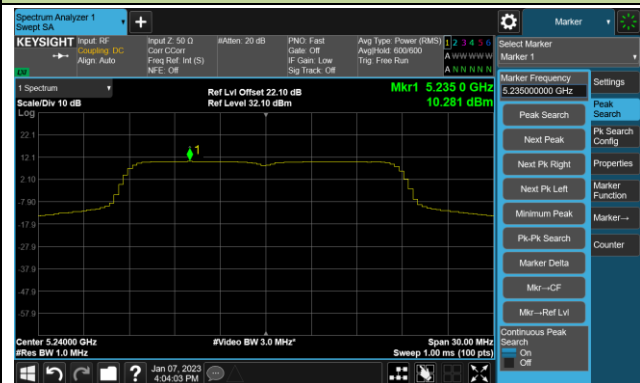
Channel 36 (5180MHz)



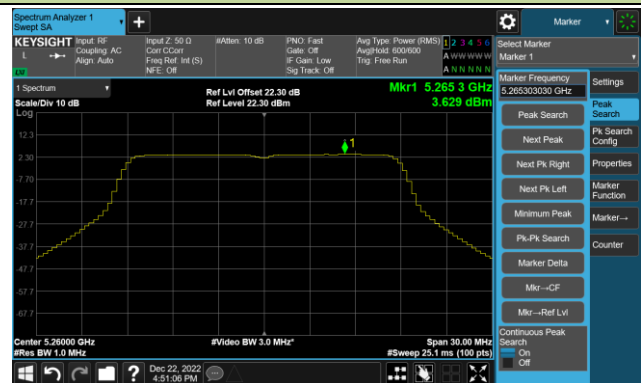
Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



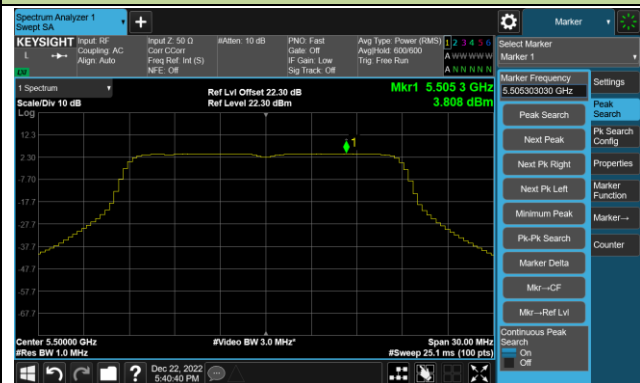
Channel 60 (5300MHz)



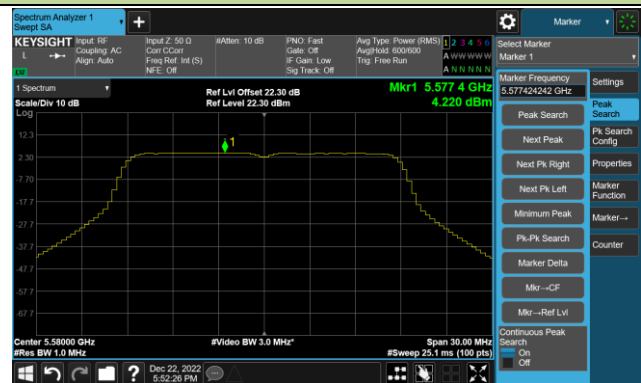
Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



802.11ac-VHT20 Power Spectral Density- Ant 0

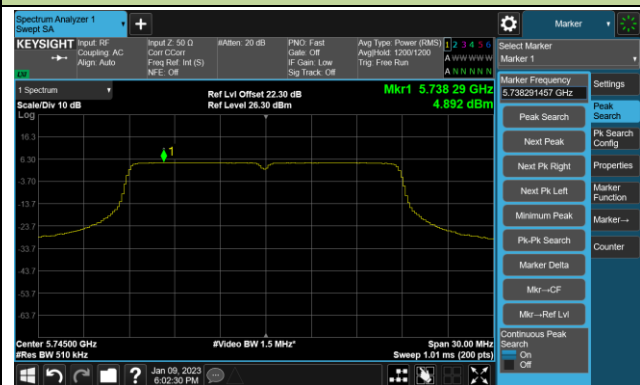
Channel 140 (5700MHz)



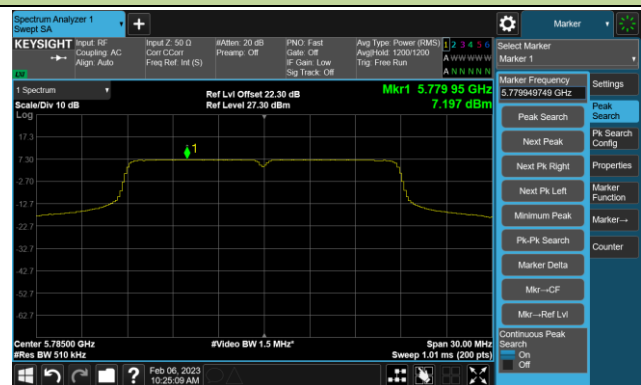
Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

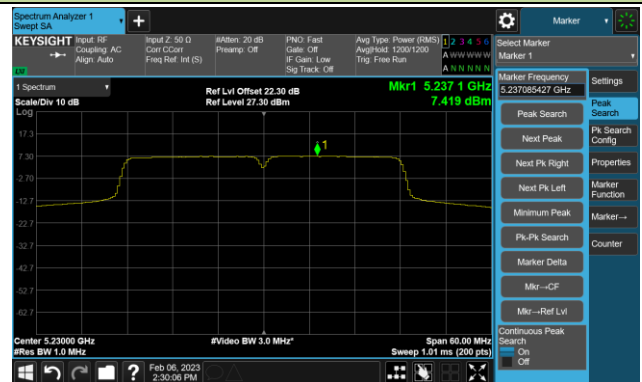


802.11ac-VHT40 Power Spectral Density- Ant 0

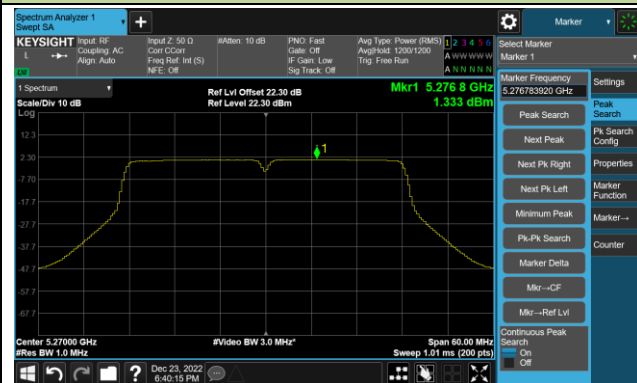
Channel 38 (5190MHz)



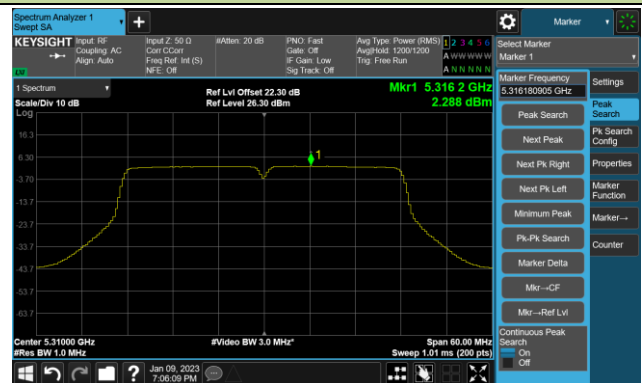
Channel 46 (5230MHz)



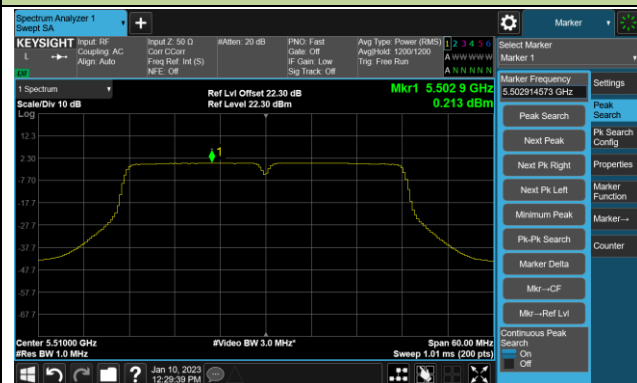
Channel 54 (5270MHz)



Channel 62 (5310MHz)



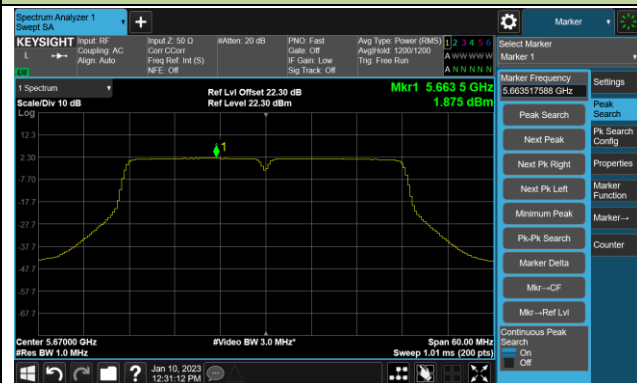
Channel 102 (5510MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142(5710MHz)

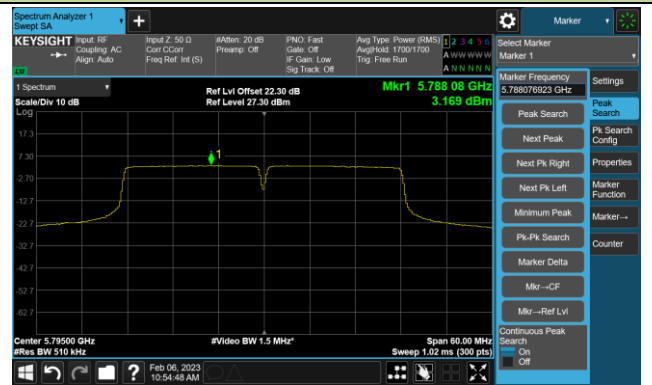


802.11ac-VHT40 Power Spectral Density- Ant 0

Channel 151 (5755MHz)



Channel 159 (5795MHz)

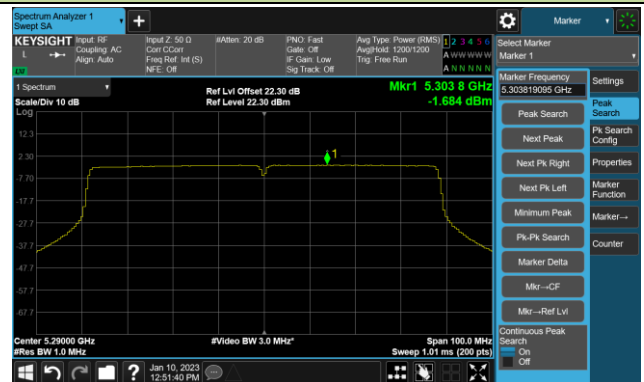


802.11ac-VHT80 Power Spectral Density- Ant 0

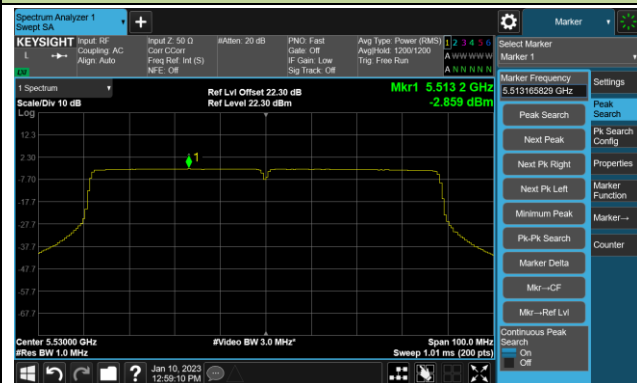
Channel 42 (5210MHz)



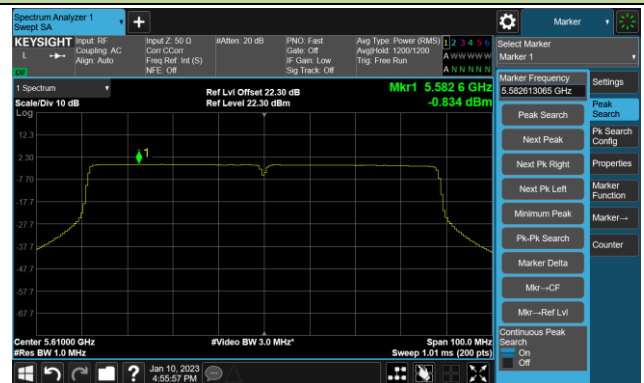
Channel 58 (5290MHz)



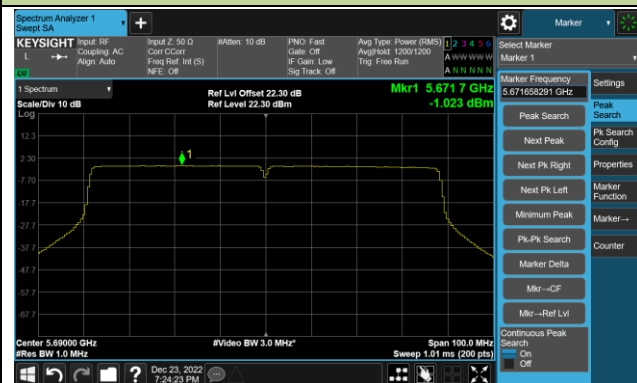
Channel 106 (5530MHz)



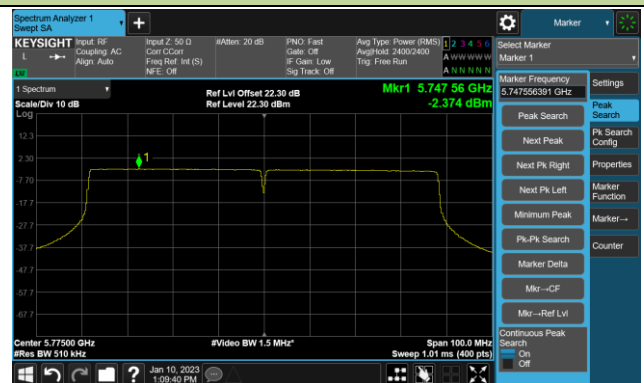
Channel 122 (5610MHz)



Channel 138 (5690MHz)

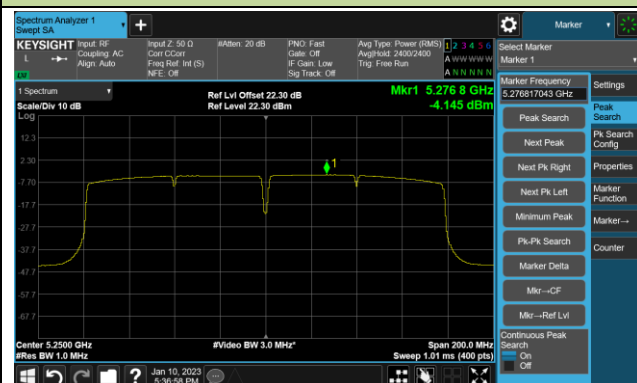


Channel 155 (5775MHz)

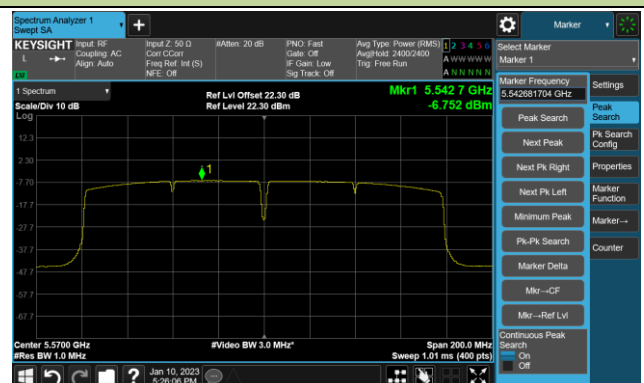


802.11ac-VHT160 Power Spectral Density- Ant 0

Channel 50 (5250MHz)

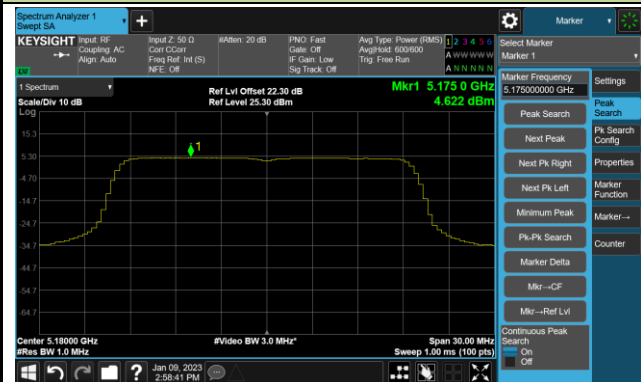


Channel 114 (5570MHz)



802.11ax-HE20 Power Spectral Density- Ant 0

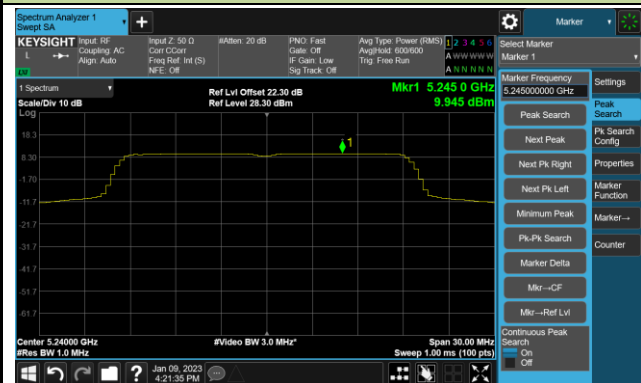
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



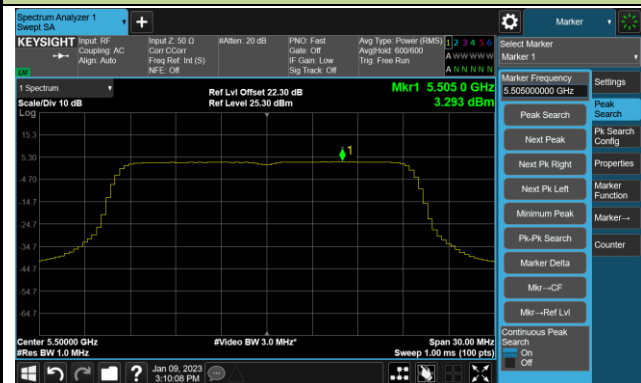
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



802.11ax-HE20 Power Spectral Density- Ant 0

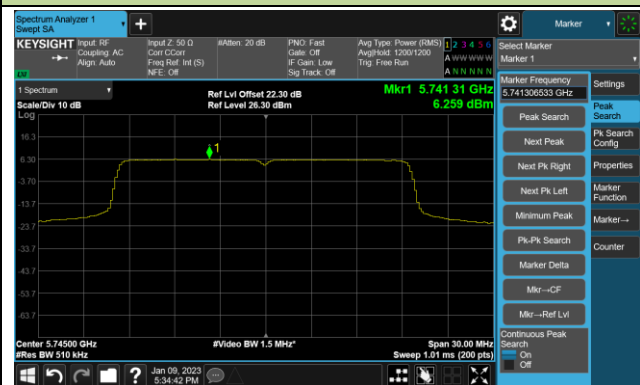
Channel 140 (5700MHz)



Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

