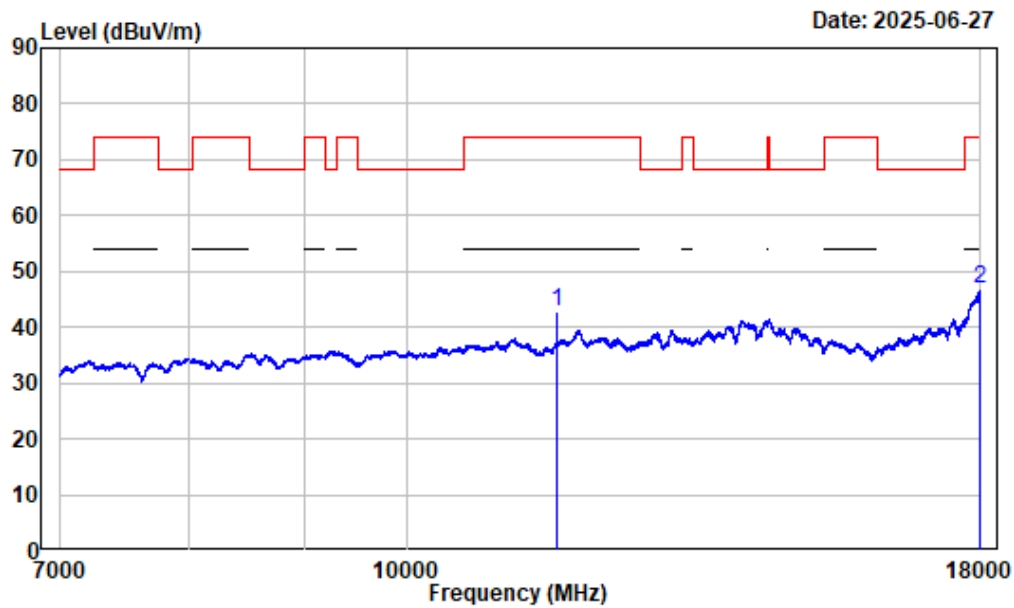


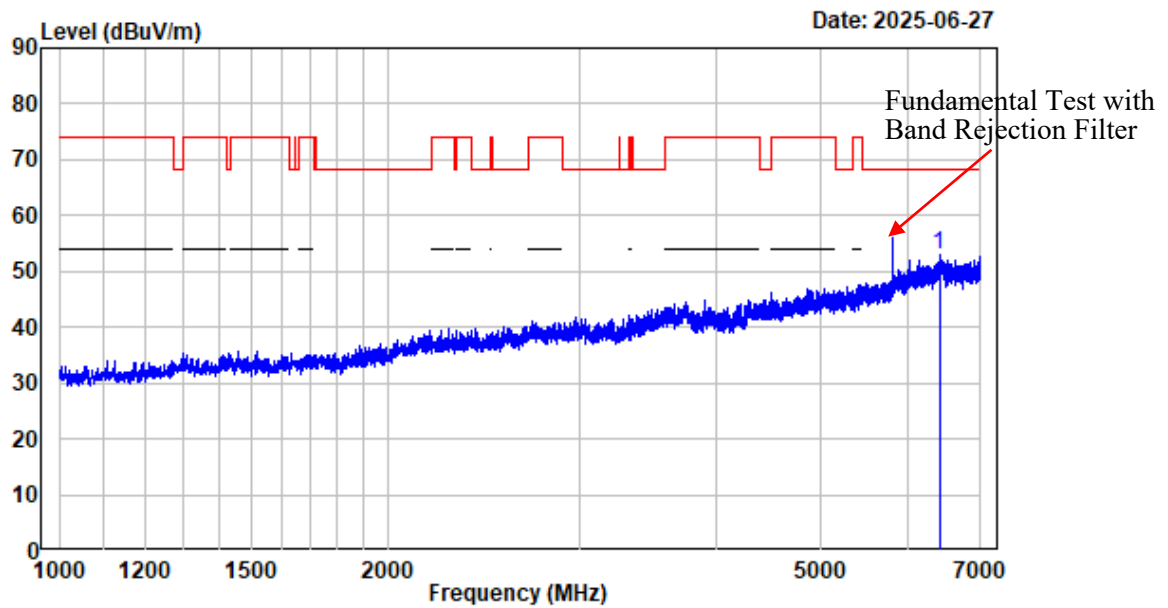
7-18GHz_Vertical_Average_5G Wi-Fi_Band4_A_ANT0_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT0-5825

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	3.43	39.38	42.81	54.00	-11.19	Average
2 17998.630	13.19	33.60	46.79	54.00	-7.21	Average

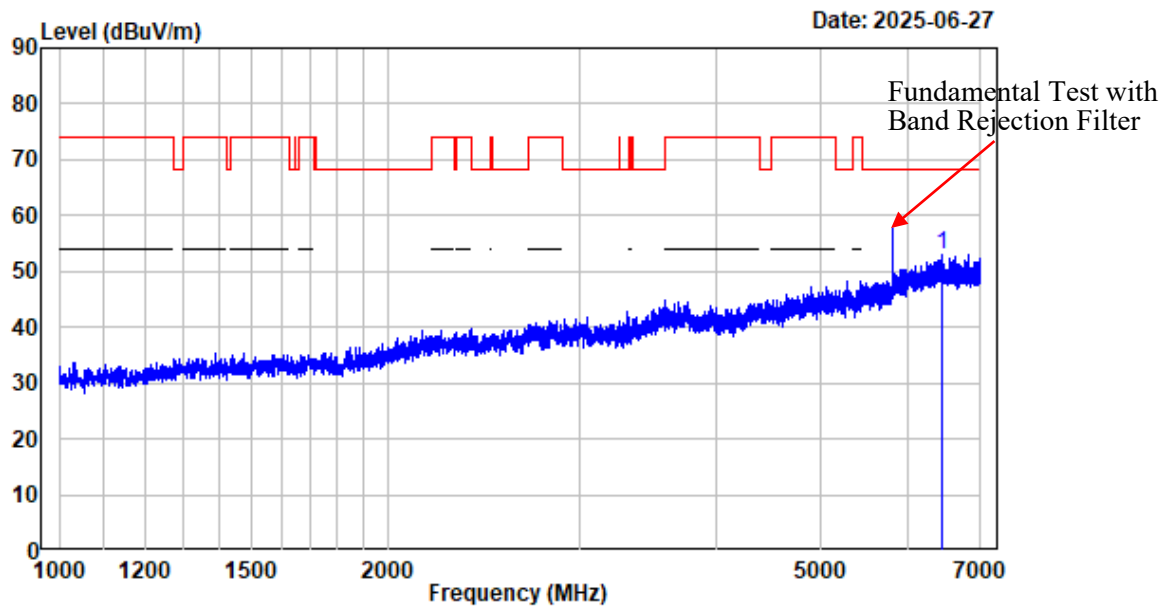
1-7GHz_Horizontal_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 6415.677	-2.88	55.70	52.82	68.20	-15.38 Peak

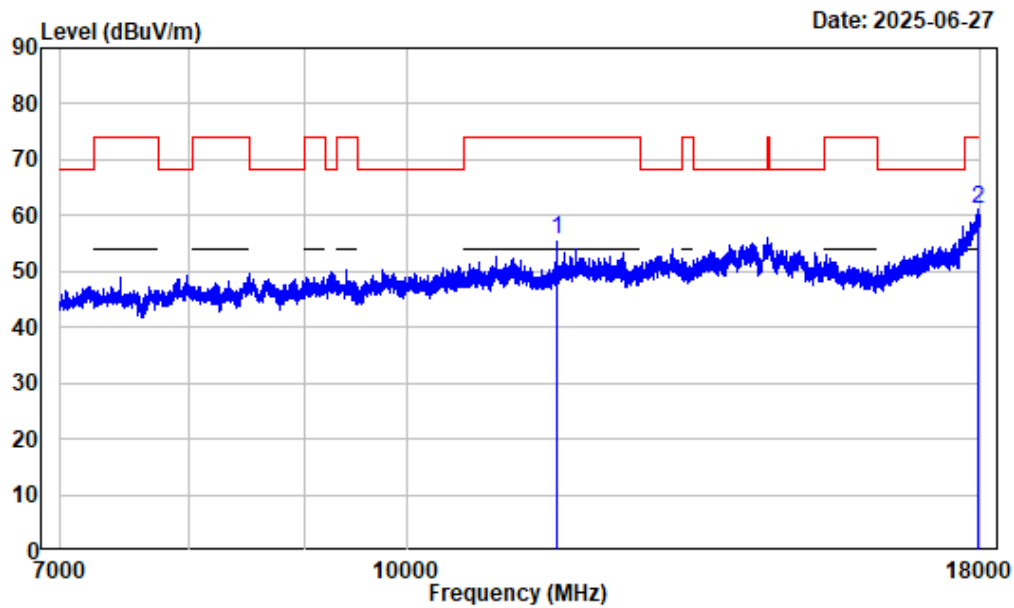
1-7GHz_Vertical_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6453.182	-2.88	55.98	53.10	68.20	-15.10	Peak

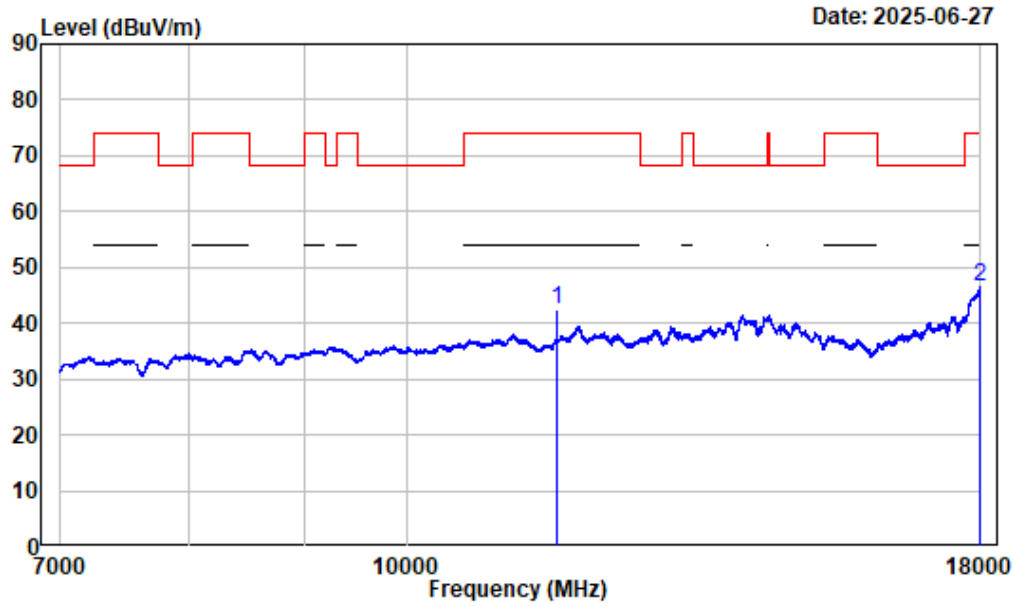
7-18GHz_Horizontal_Peak_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11650.000	3.43	52.18	55.61	74.00	-18.39 Peak
2 17965.620	13.03	47.93	60.96	74.00	-13.04 Peak

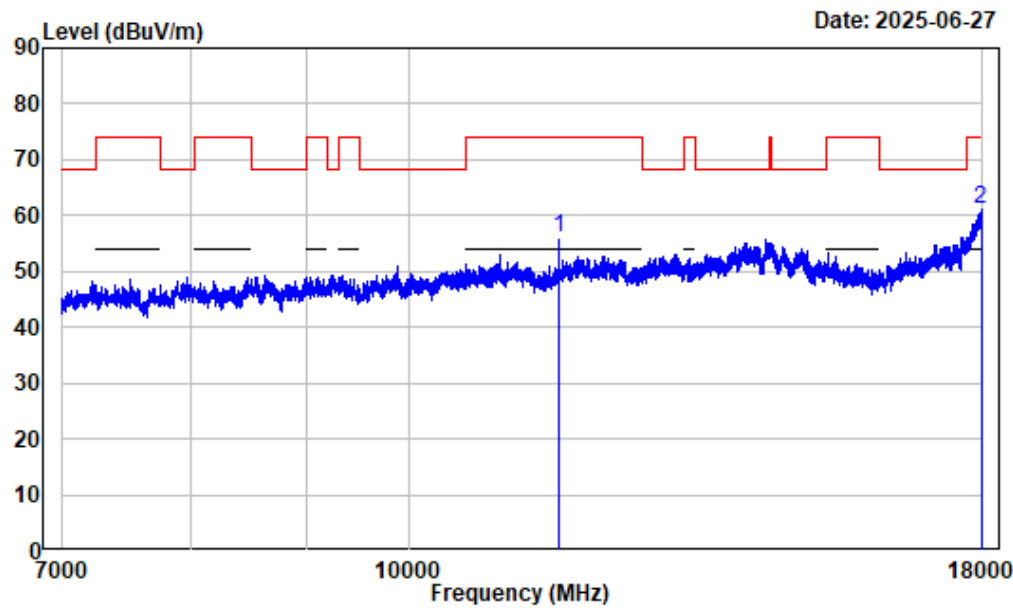
7-18GHz_Horizontal_Average_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	3.43	38.92	42.35	54.00	-11.65	Average
2 17995.880	13.18	33.50	46.68	54.00	-7.32	Average

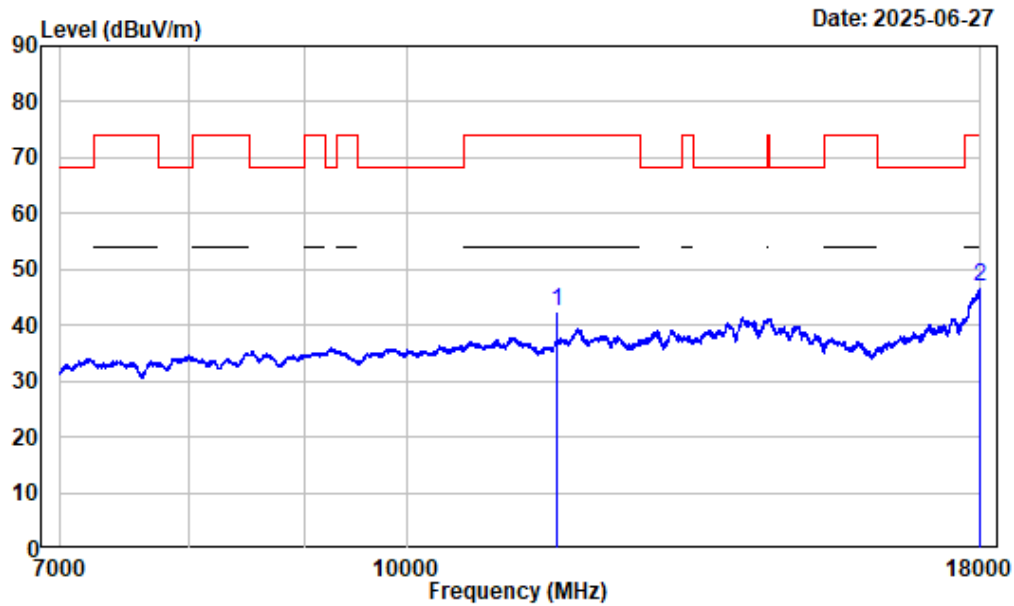
7-18GHz_Vertical_Peak_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11650.000	3.43	52.73	56.16	74.00	-17.84 Peak
2 17972.500	13.07	48.00	61.07	74.00	-12.93 Peak

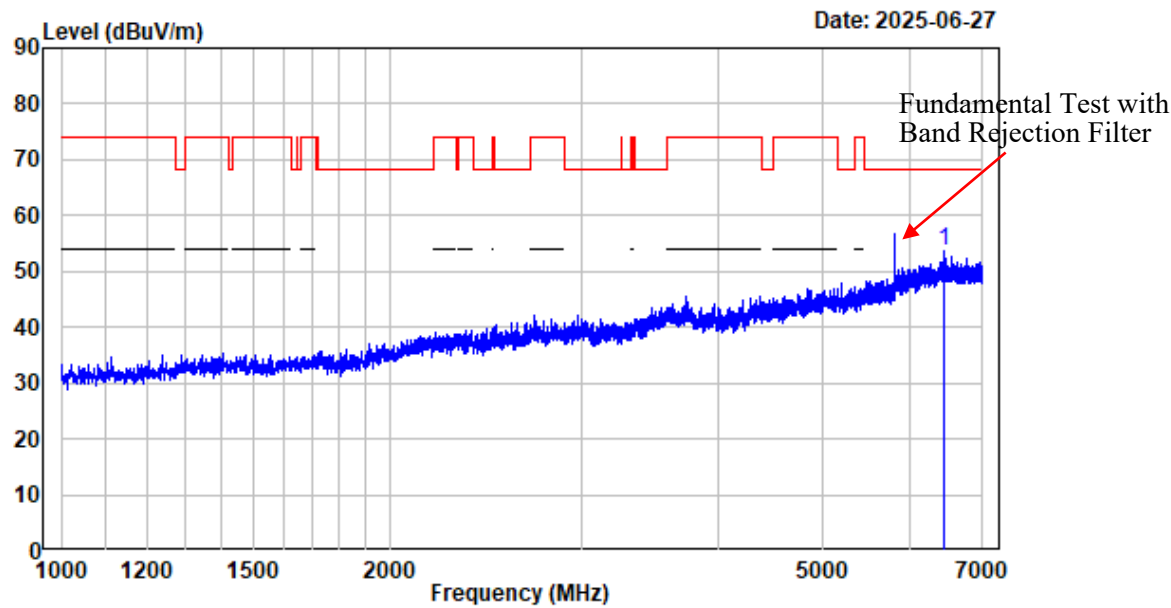
7-18GHz_Vertical_Average_5G Wi-Fi_Band4_A_ANT1_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band4-A_ANT1-5825

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	3.43	39.14	42.57	54.00	-11.43	Average
2 17991.750	13.16	33.58	46.74	54.00	-7.26	Average

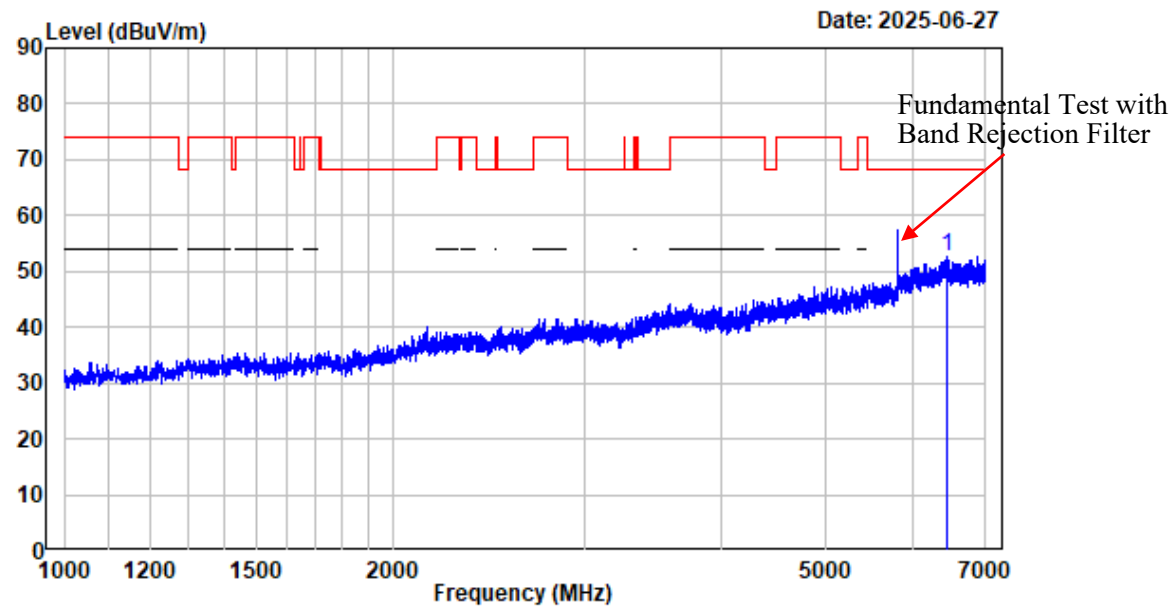
1-7GHz_Horizontal_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6457.682	-2.88	56.52	53.64	68.20	-14.56	Peak

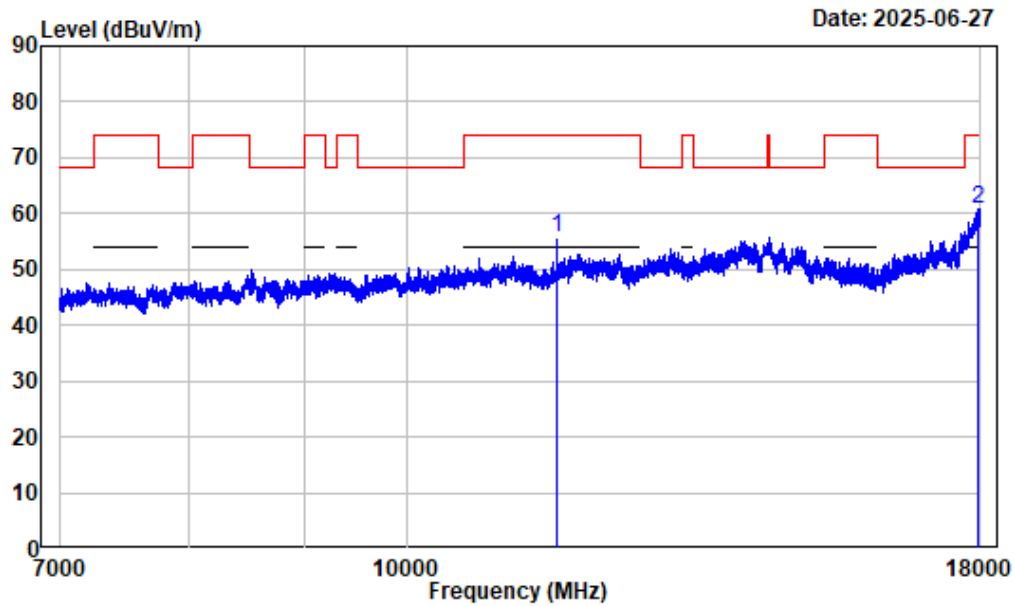
1-7GHz_Vertical_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6444.181	-2.87	55.62	52.75	68.20	-15.45 Peak

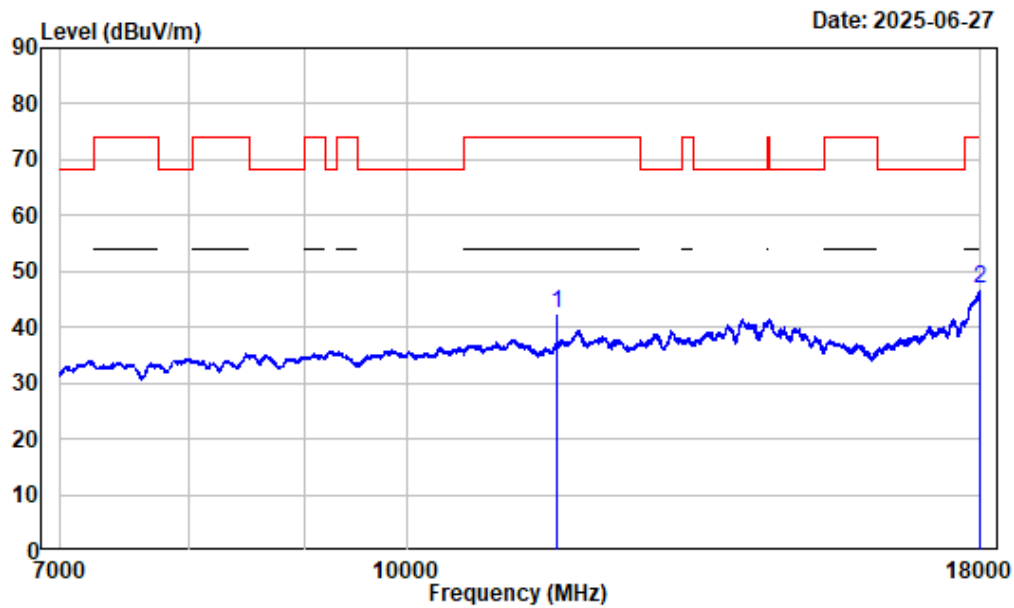
7-18GHz_Horizontal_Peak_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11650.000	3.43	52.37	55.80	74.00	-18.20 Peak
2 17971.120	13.06	47.85	60.91	74.00	-13.09 Peak

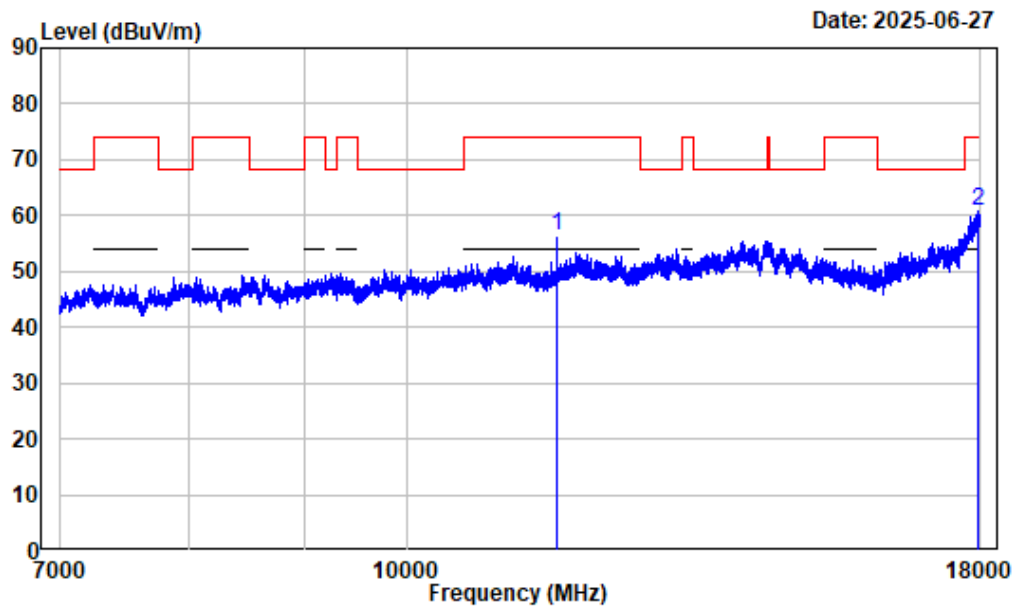
7-18GHz_Horizontal_Average_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	3.43	39.06	42.49	54.00	-11.51	Average
2 17995.880	13.18	33.52	46.70	54.00	-7.30	Average

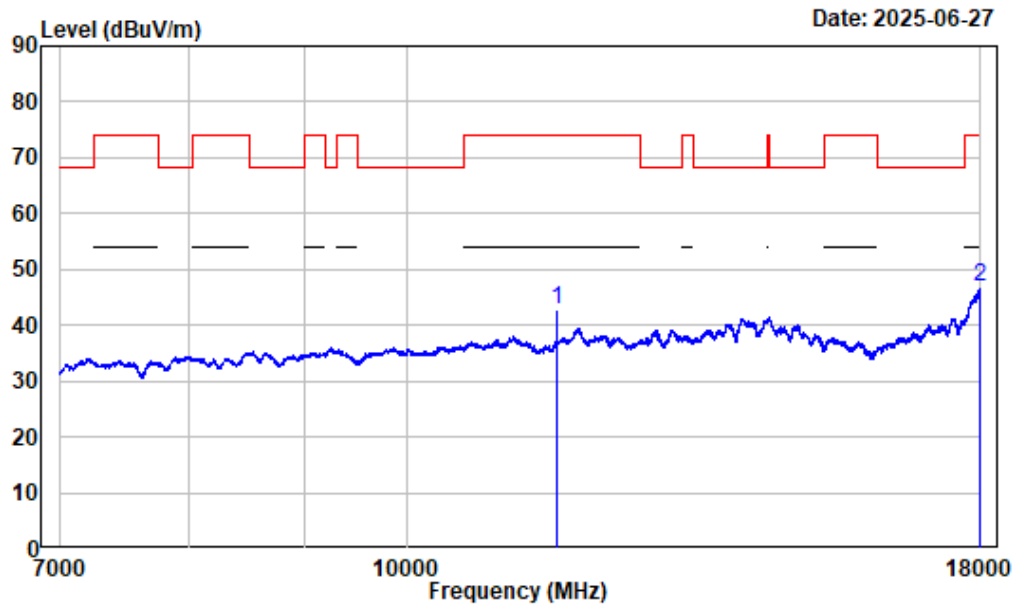
7-18GHz_Vertical_Peak_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11650.000	3.43	52.95	56.38	74.00	-17.62 Peak
2 17965.620	13.03	47.69	60.72	74.00	-13.28 Peak

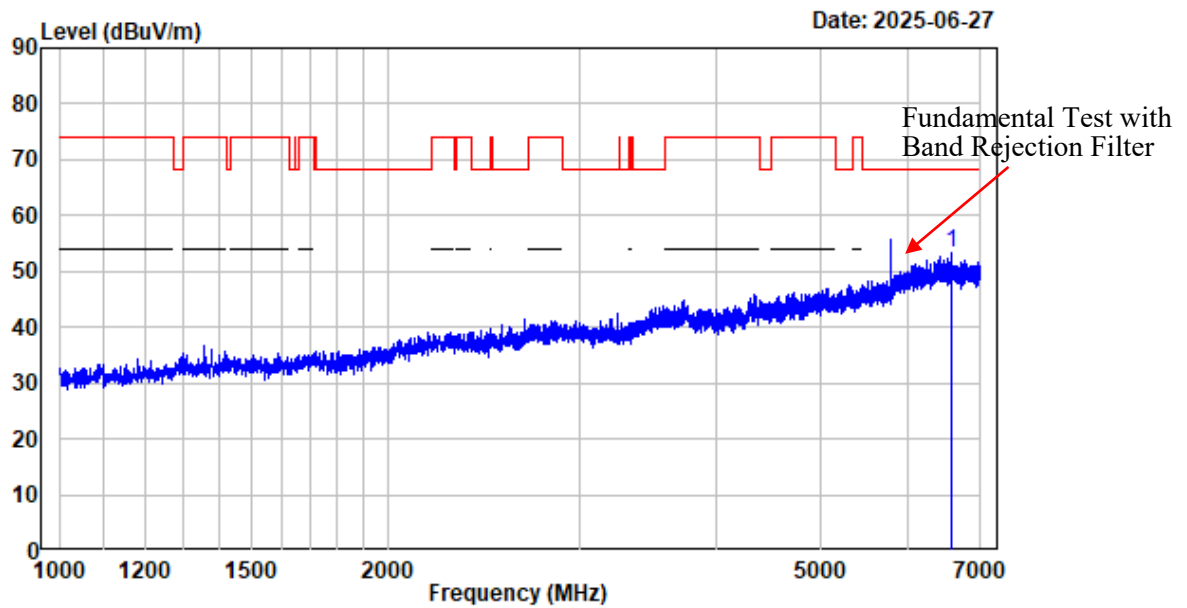
7-18GHz_Vertical_Average_5G Wi-Fi_Band4_AC20_5825MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi-Band4-AC20-5825

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	3.43	39.29	42.72	54.00	-11.28	Average
2 17998.630	13.19	33.56	46.75	54.00	-7.25	Average

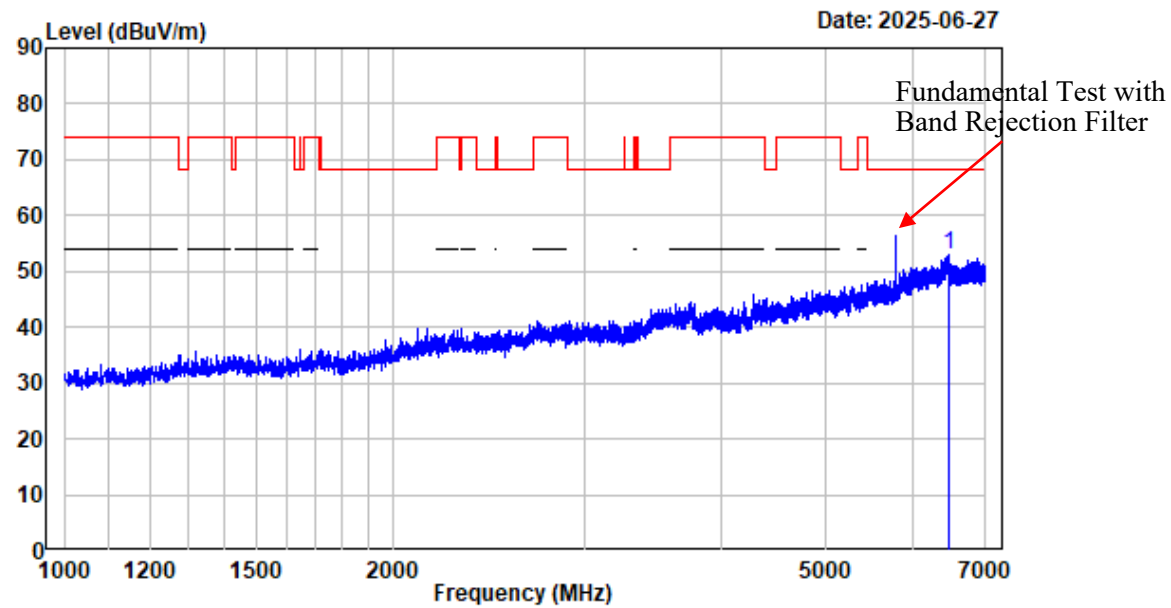
1-7GHz_Horizontal_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 6586.698	-3.11	56.47	53.36	68.20	-14.84 Peak

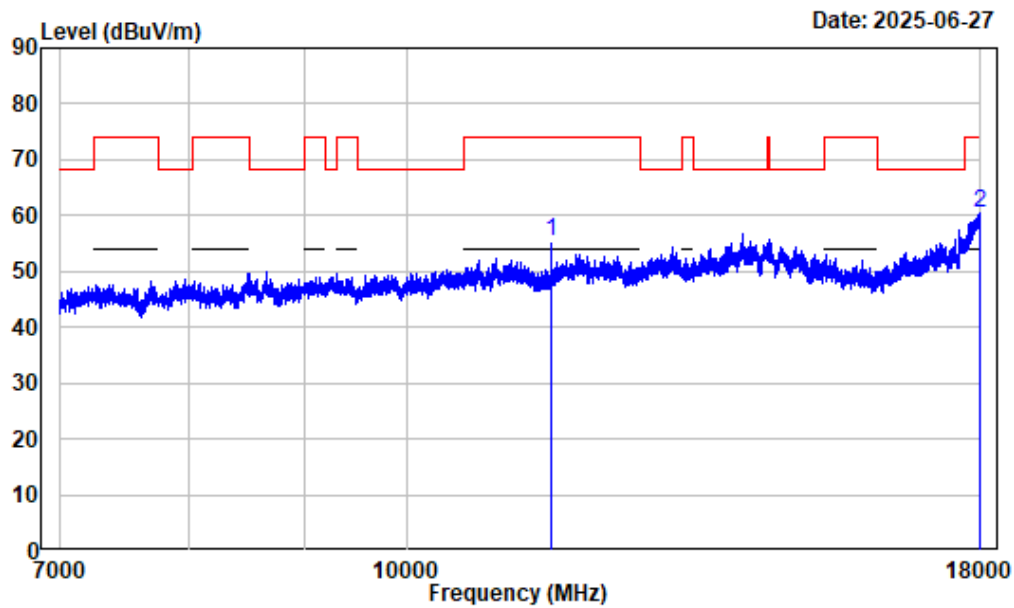
1-7GHz_Vertical_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6477.185	-2.92	55.79	52.87	68.20	-15.33 Peak

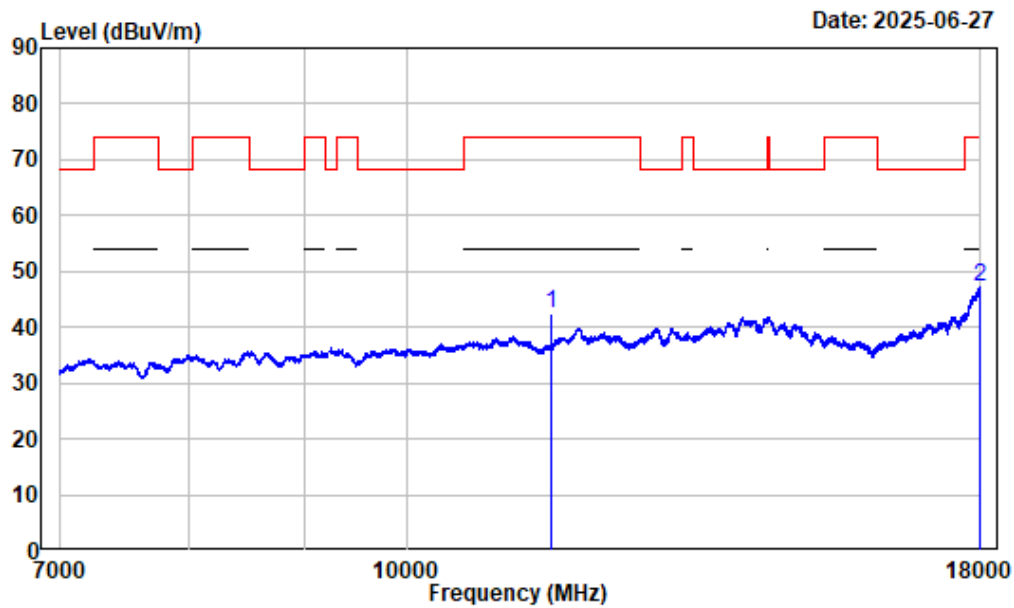
7-18GHz_Horizontal_Peak_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11590.000	3.21	52.01	55.22	74.00	-18.78 Peak
2 17986.250	13.12	47.42	60.54	74.00	-13.46 Peak

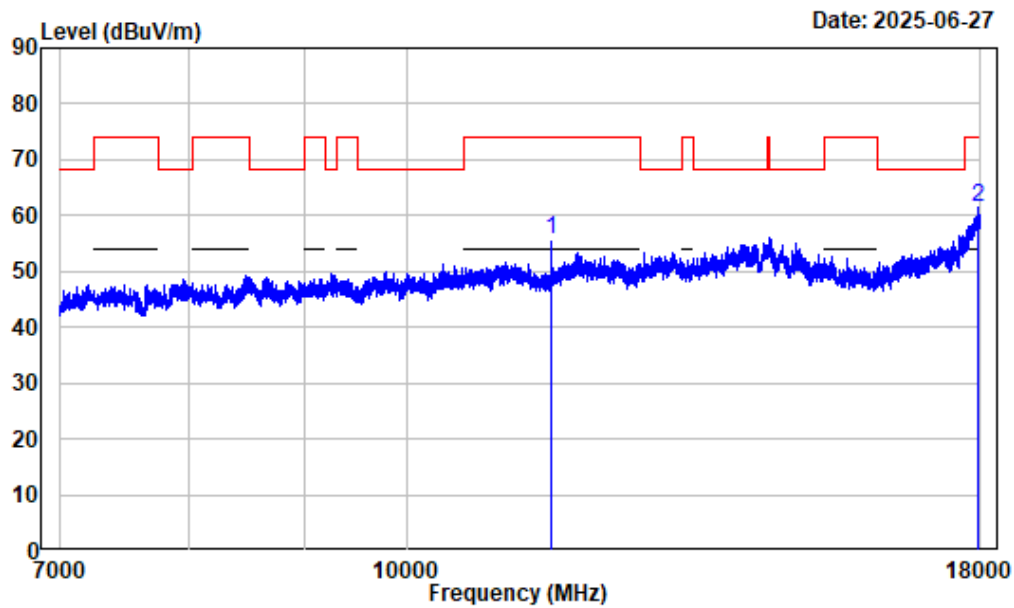
7-18GHz_Horizontal_Average_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:2kHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

Freq Factor		Read Level		Limit	Over	Remark
				Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	3.21	39.17	42.38	54.00	-11.62	Average
2 17993.130	13.17	34.08	47.25	54.00	-6.75	Average

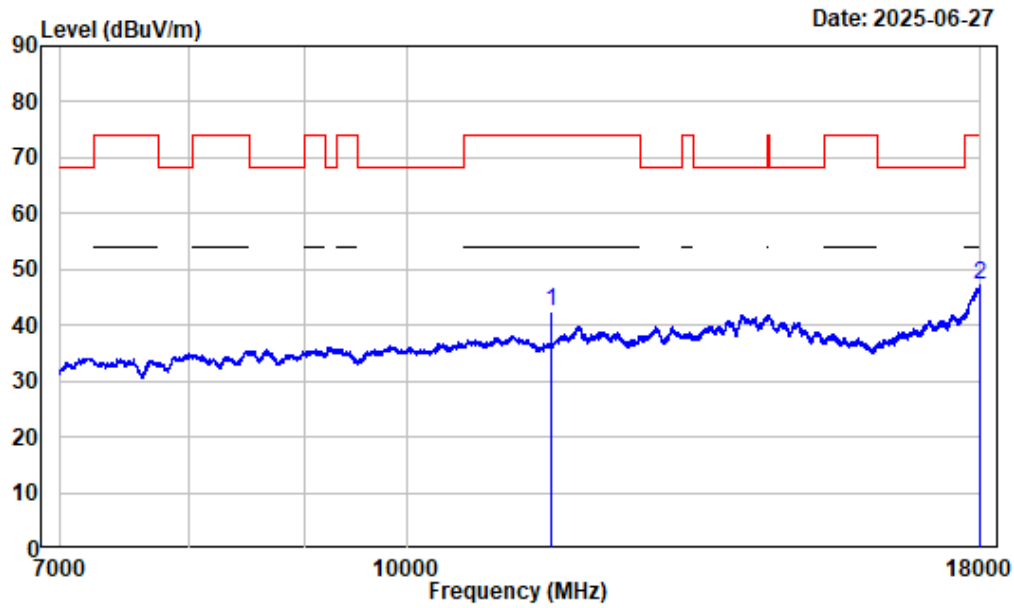
7-18GHz_Vertical_Peak_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	3.21	52.54	55.75	74.00	-18.25	Peak
2	17946.370	12.93	48.70	61.63	74.00	-12.37	Peak

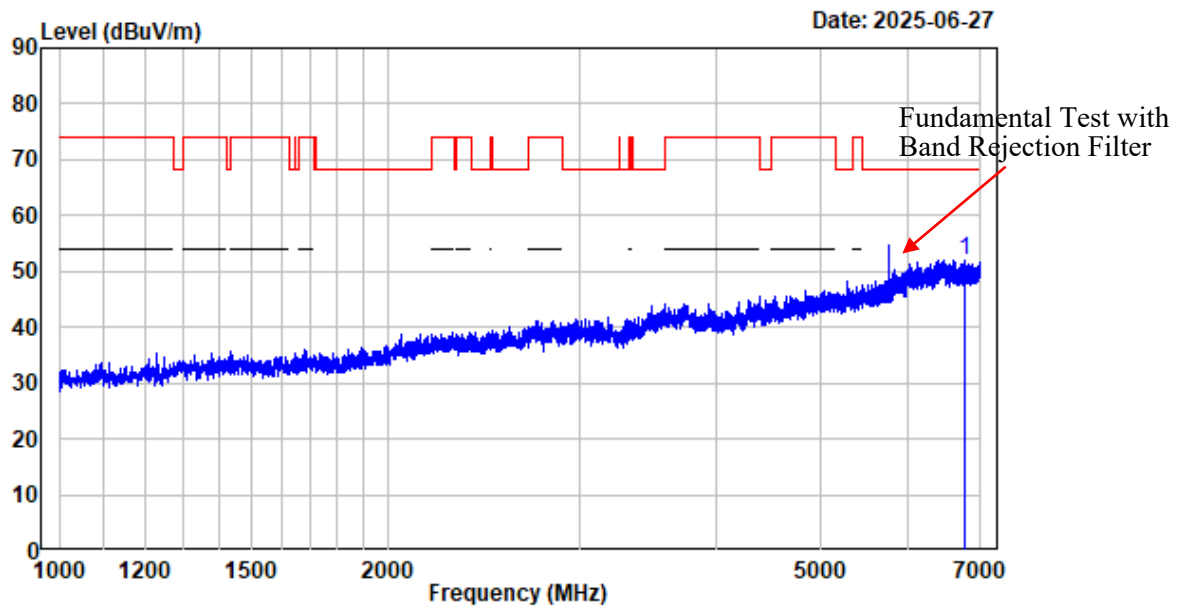
7-18GHz_Vertical_Average_5G Wi-Fi_Band4_AC40_5795MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:2kHz Detector:Peak
Note : 5GWiFi-Band4-AC40-5795

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	3.21	39.38	42.59	54.00	-11.41	Average
2 17993.130	13.17	34.15	47.32	54.00	-6.68	Average

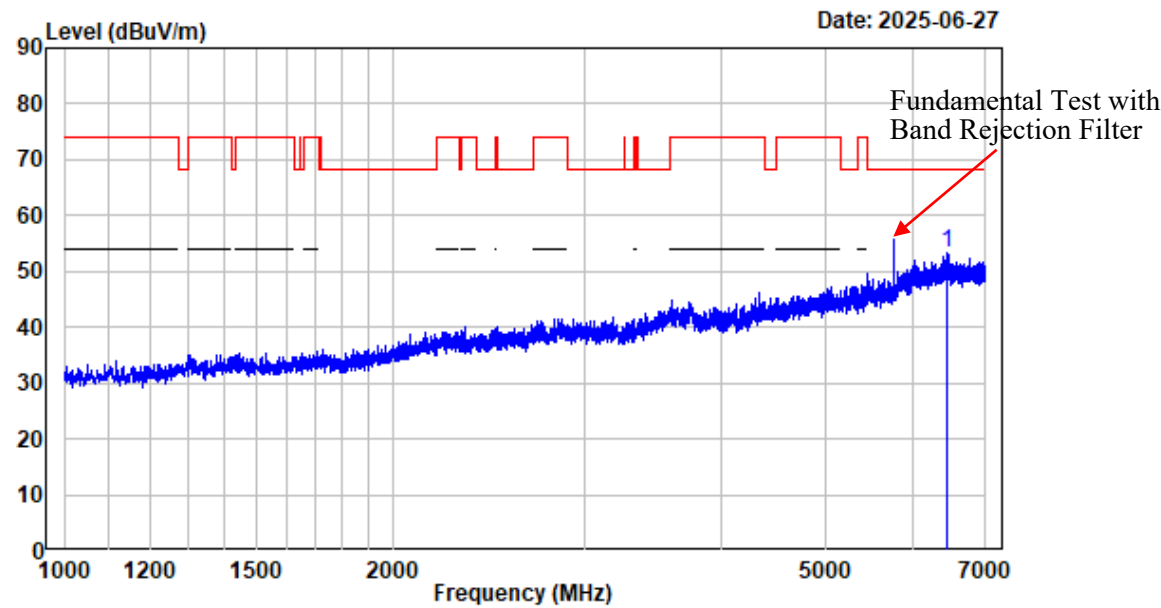
1-7GHz_Horizontal_5G Wi-Fi_Band4_AC80_5775MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6772.722	-3.29	55.28	51.99	68.20	-16.21 Peak

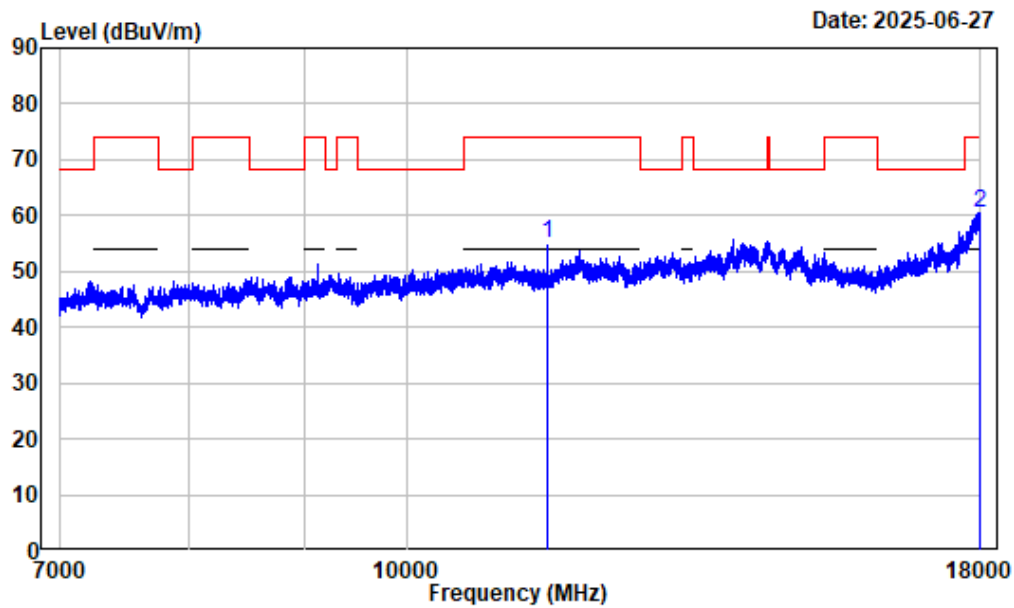
1-7GHz_Vertical_5G Wi-Fi_Band4_AC80_5775MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6442.680	-2.88	56.08	53.20	68.20	-15.00	Peak

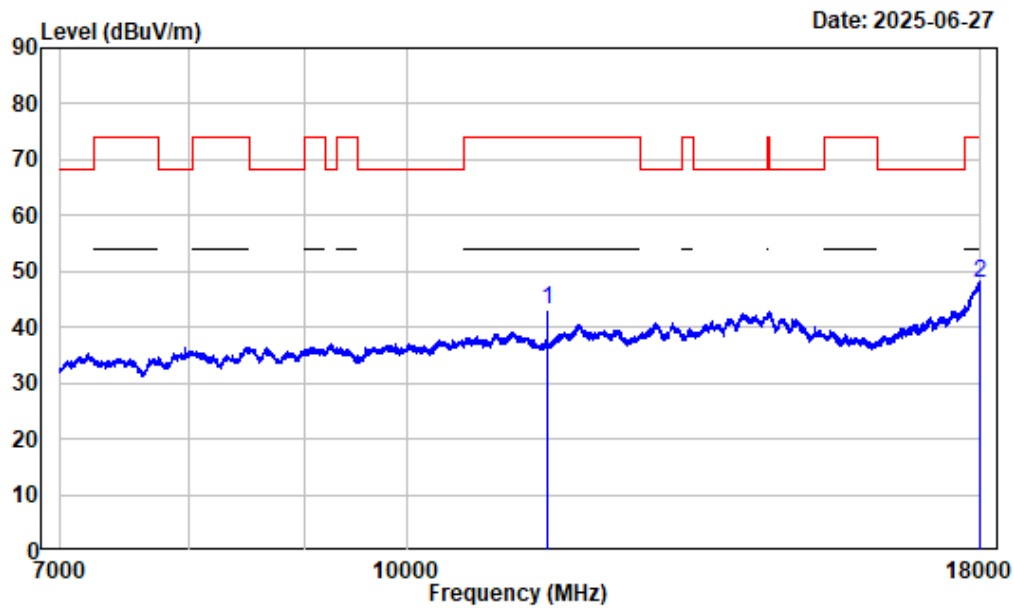
7-18GHz_Horizontal_Peak_5G Wi-Fi_Band4_AC80_5775MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

Freq Factor		Read	Limit	Over	Remark
MHz	dB/m	Level	Level	Line	
		dBuV	dBuV/m	dBuV/m	dB
1 11550.000	3.37	51.63	55.00	74.00	-19.00 Peak
2 17975.250	13.08	47.49	60.57	74.00	-13.43 Peak

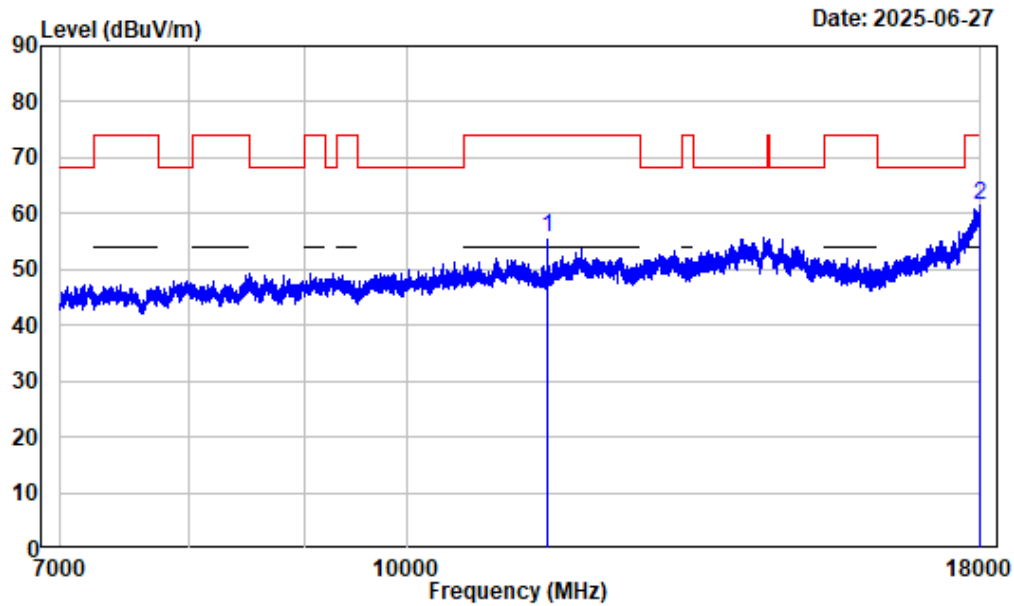
7-18GHz_Horizontal_Average_5G Wi-Fi_Band4_AC80_5775MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11550.000	3.37	39.75	43.12	54.00	-10.88	Average
2 17986.250	13.12	34.76	47.88	54.00	-6.12	Average

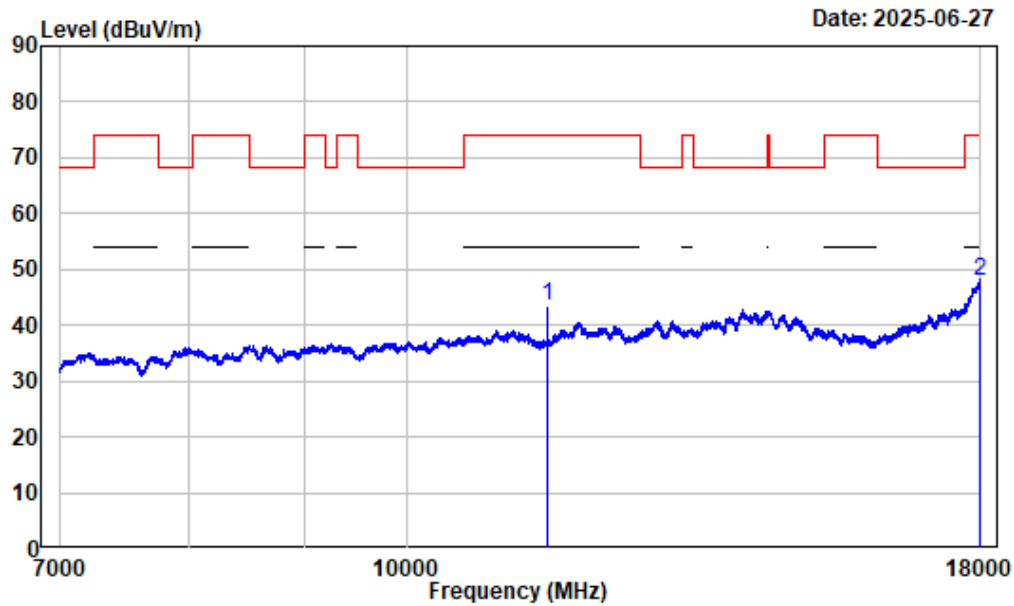
7-18GHz_Vertical_Peak_5G Wi-Fi_Band4_AC80_5775MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11550.000	3.37	52.18	55.55	74.00	-18.45	Peak
2	17991.750	13.16	48.46	61.62	74.00	-12.38	Peak

7-18GHz_Vertical_Average_5G Wi-Fi_Band4_AC80_5775MHz

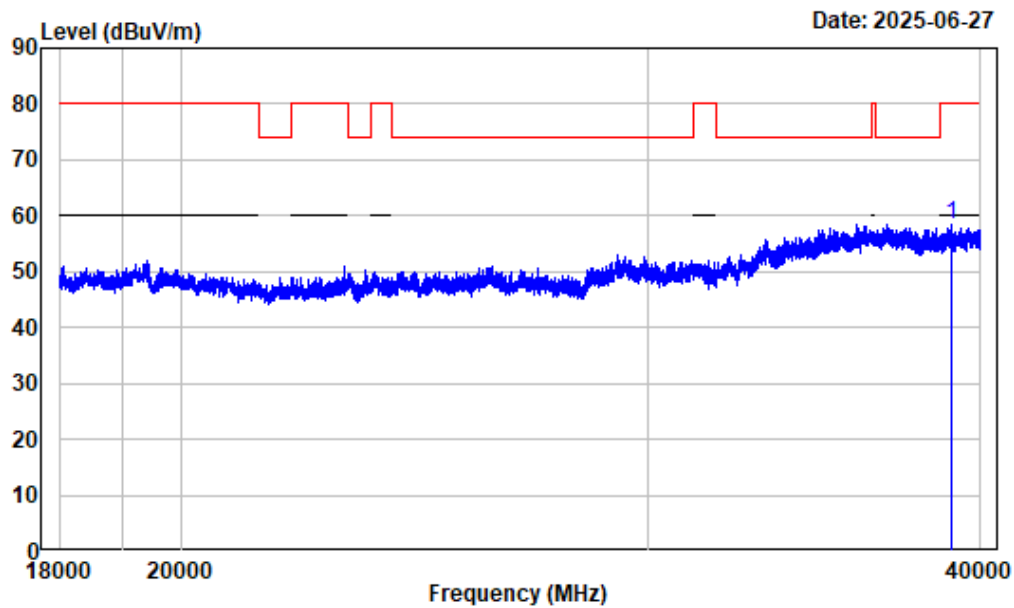


Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi-Band4-AC80-5775

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11550.000	3.37	39.96	43.33	54.00	-10.67	Average
2 17990.370	13.15	34.82	47.97	54.00	-6.03	Average

18-40GHz (Only Listed with the worst harmonic margin test plot):

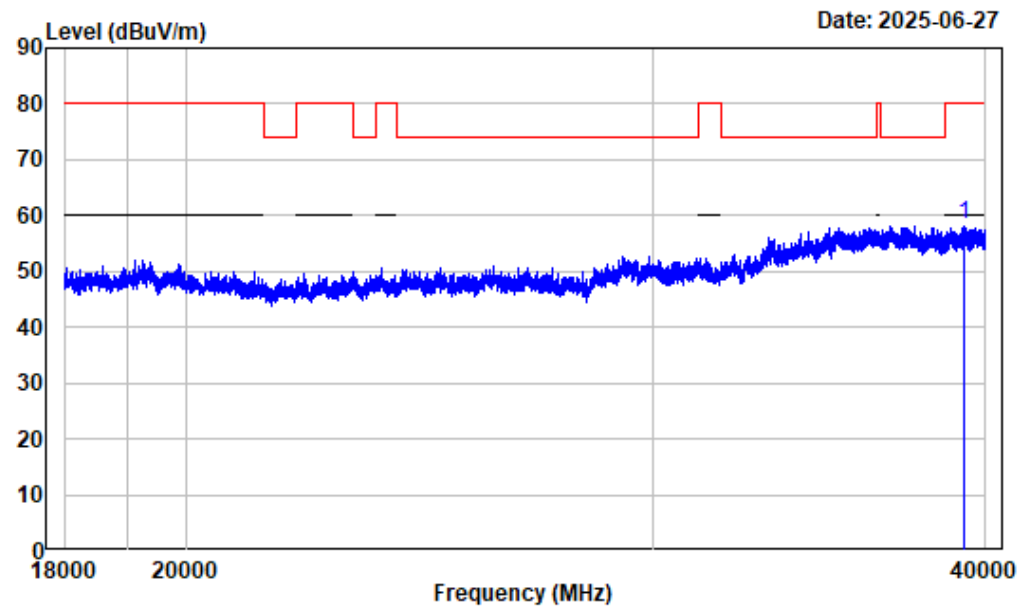
18-40GHz_Horizontal_5G Wi-Fi_Band1_A_ANT0_5180MHz



Condition : Horizontal
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band1-A_ANT0-5180

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 38993.380	22.27	36.10	58.37	80.00	-21.63	Peak

18-40GHz_Vertical_5G Wi-Fi_Band1_A_ANT0_5180MHz



Condition : Vertical
Project No. : 2501U29284E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi-Band1-A_ANT0-5180

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 39249.160	22.36	36.14	58.50	80.00	-21.50 Peak

Emission Bandwidth**Test Information:**

Sample No.:	348G-1	Test Date:	2025/07/01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1-26.3	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	101.2-101.4
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Test Data:**26dB Emission Bandwidth
5150-5250MHz**

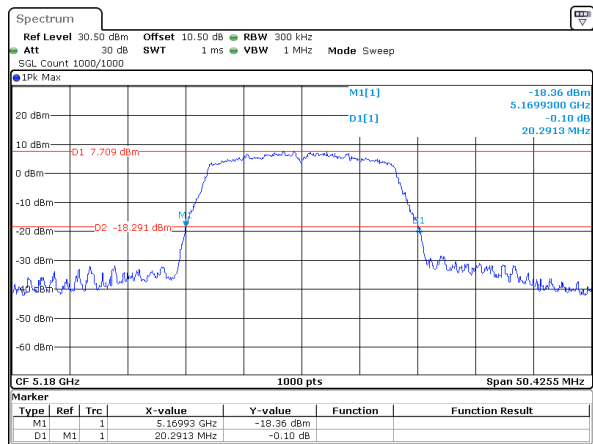
Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	20.291
		5200	20.695
		5240	20.390
	Chain 1	5180	22.599
		5200	20.595
		5240	20.392
802.11ac20	Chain 0	5180	20.544
		5200	21.099
		5240	21.003
	Chain 1	5180	20.140
		5200	20.392
		5240	20.494
802.11ac40	Chain 0	5190	40.941
		5230	41.141
	Chain 1	5190	40.040
		5230	40.340
802.11ac80	Chain 0	5210	82.082
	Chain 1	5210	80.681

6dB Emission Bandwidth
5725-5850MHz

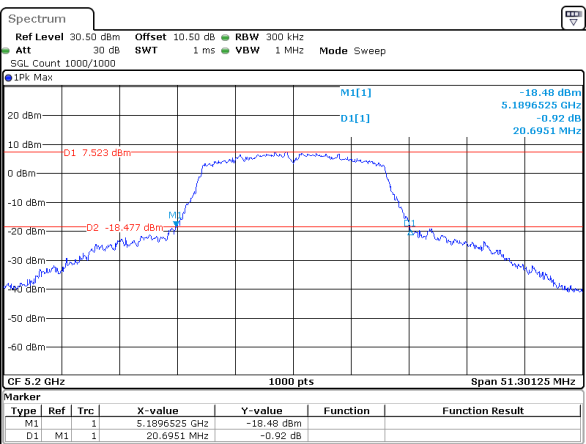
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	15.215	0.5	Pass
		5785	15.215	0.5	Pass
		5825	15.215	0.5	Pass
	Chain 1	5745	15.215	0.5	Pass
		5785	15.165	0.5	Pass
		5825	15.215	0.5	Pass
802.11ac20	Chain 0	5745	15.215	0.5	Pass
		5785	17.367	0.5	Pass
		5825	15.265	0.5	Pass
	Chain 1	5745	15.215	0.5	Pass
		5785	15.165	0.5	Pass
		5825	15.766	0.5	Pass
802.11ac40	Chain 0	5755	35.235	0.5	Pass
		5795	35.335	0.5	Pass
	Chain 1	5755	35.235	0.5	Pass
		5795	35.335	0.5	Pass
802.11ac80	Chain 0	5775	75.476	0.5	Pass
	Chain 1	5775	75.476	0.5	Pass

5150-5250MHz

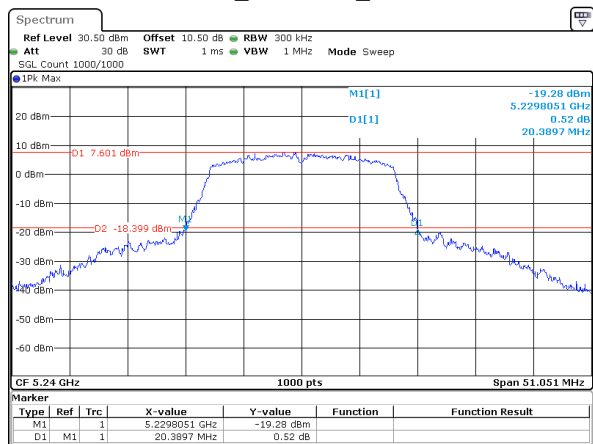
802.11a_5180MHz_Chain 0



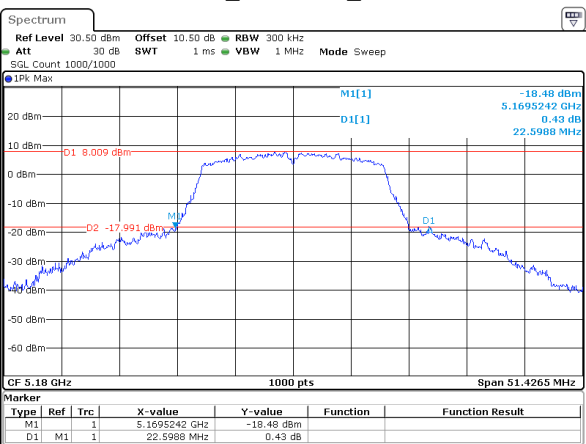
802.11a_5200MHz_Chain 0



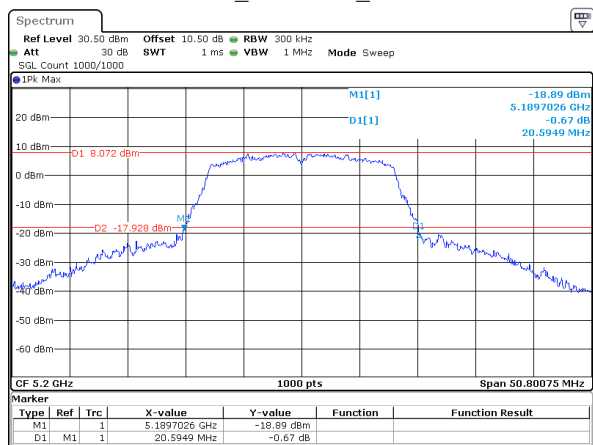
802.11a_5240MHz_Chain 0



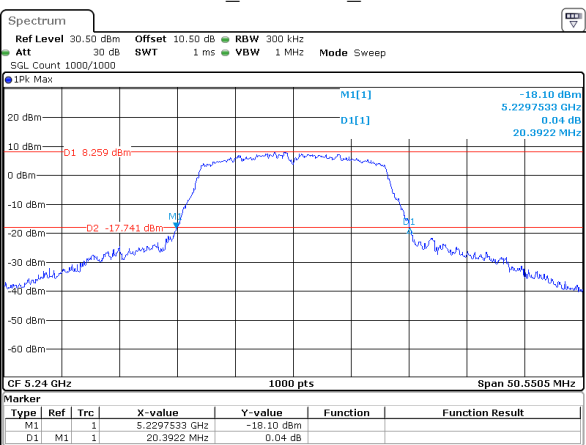
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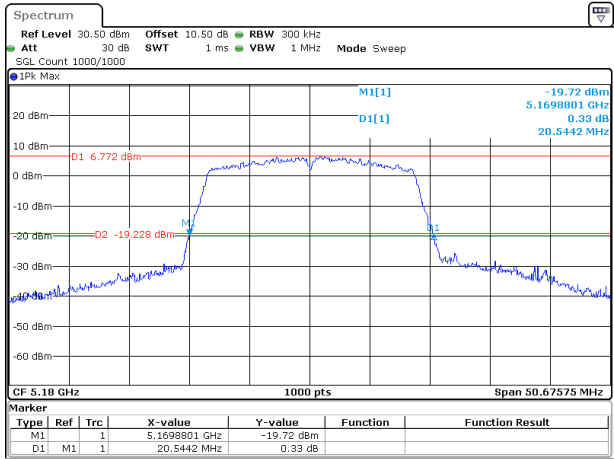
802.11a_5200MHz_Chain 1



802.11a_5240MHz_Chain 1

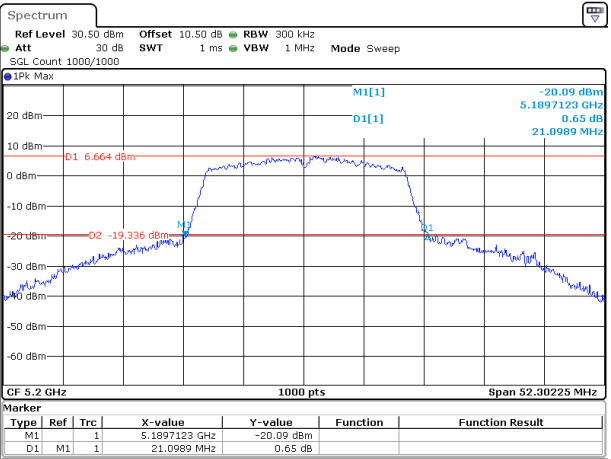


802.11ac20_5180MHz_Chain 0



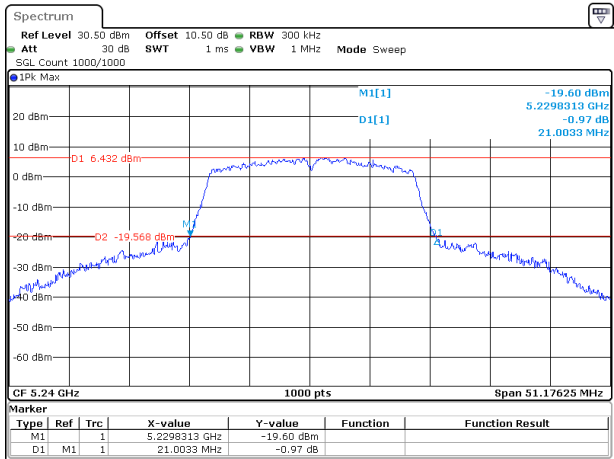
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:59:33

802.11ac20_5200MHz_Chain 0



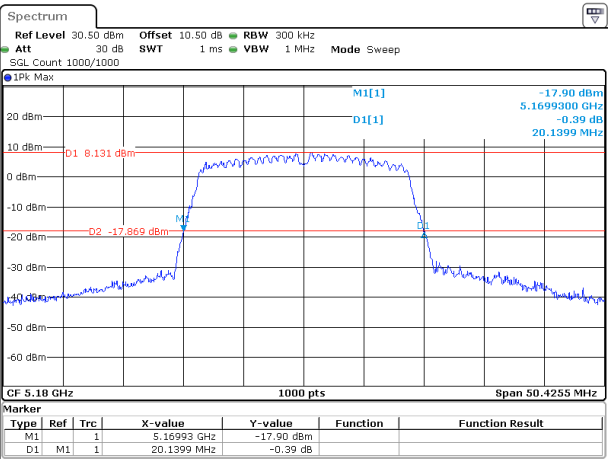
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:04:32

802.11ac20_5240MHz_Chain 0



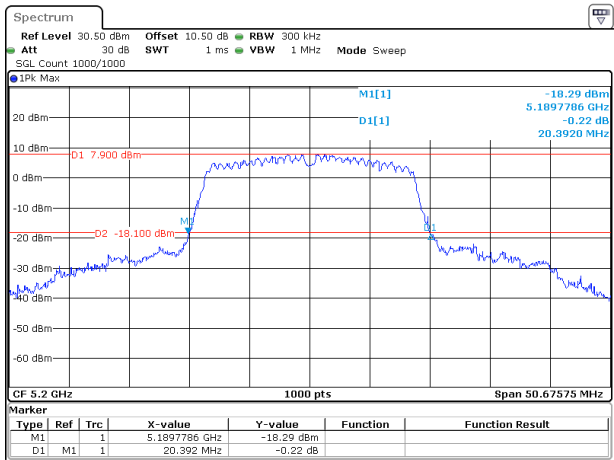
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:06:26

802.11ac20_5180MHz_Chain 1



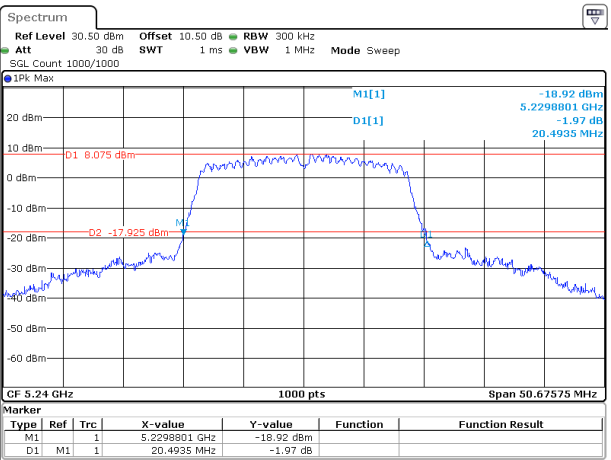
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Date: 1.JUL.2025 11:03:20

802.11ac20_5200MHz_Chain 1



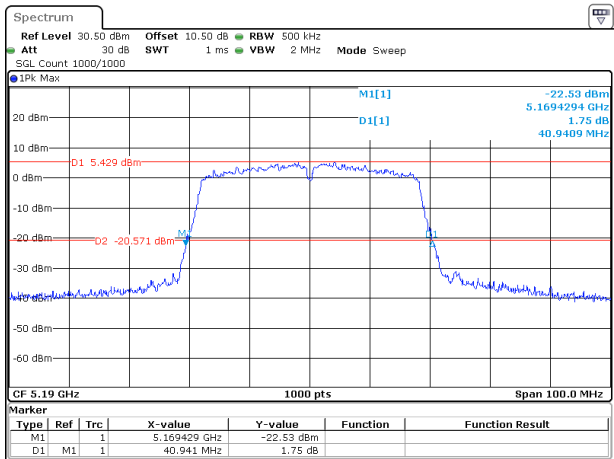
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:05:34

802.11ac20_5240MHz_Chain 1



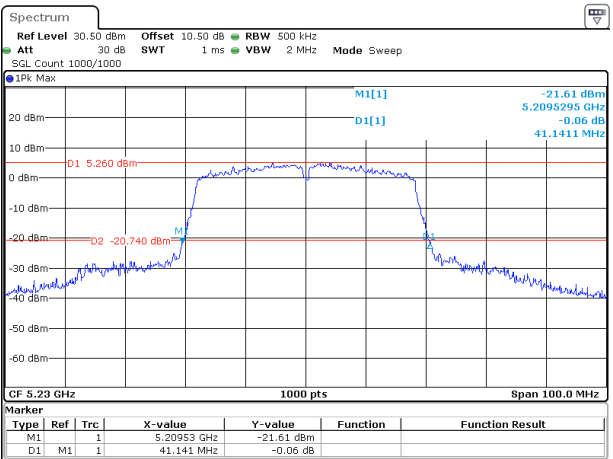
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:07:42

802.11ac40_5190MHz_Chain 0



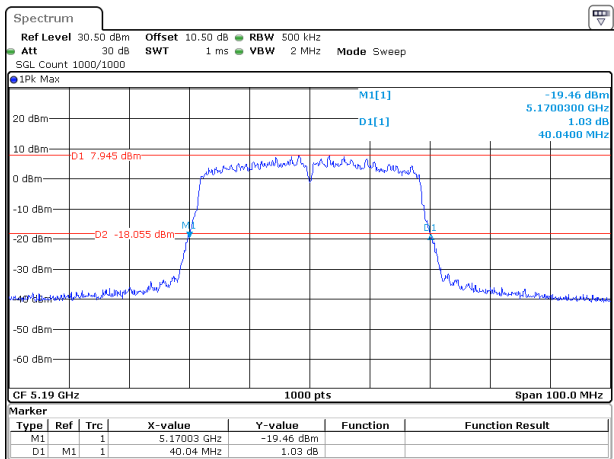
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Date: 1.JUL.2025 10:25:59

802.11ac40_5230MHz_Chain 0



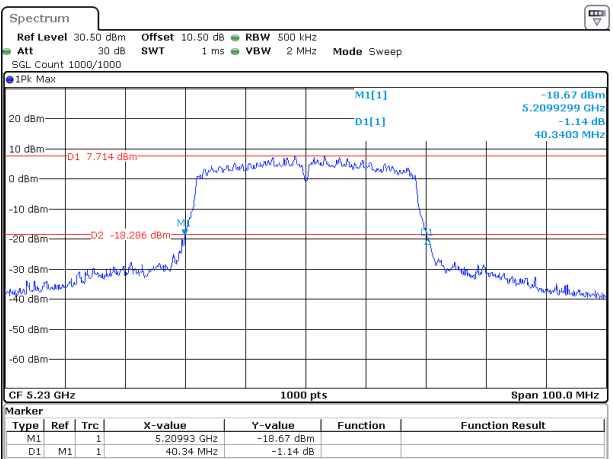
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:27:24

802.11ac40_5190MHz_Chain 1



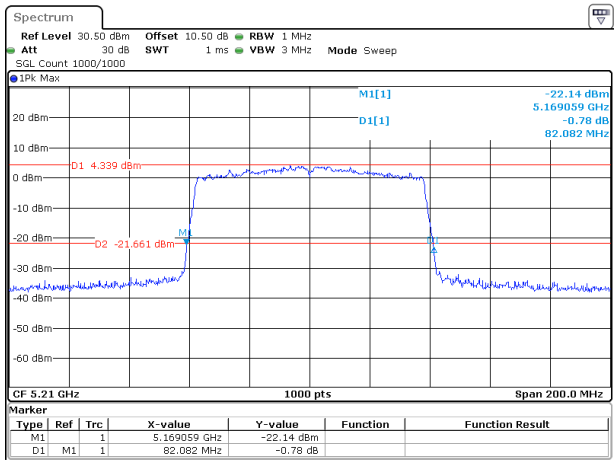
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:27:41

802.11ac40_5230MHz_Chain 1



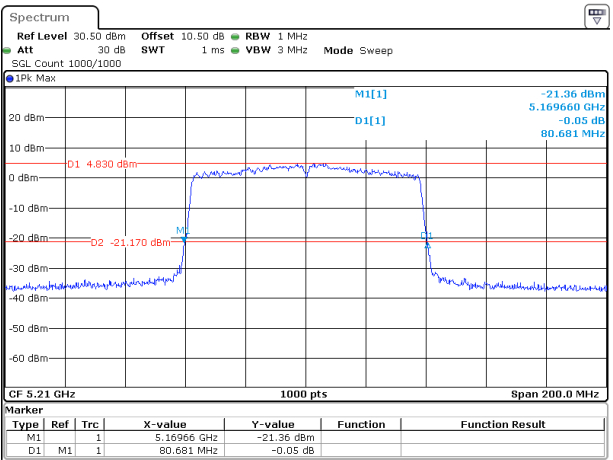
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:30:25

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:36:32

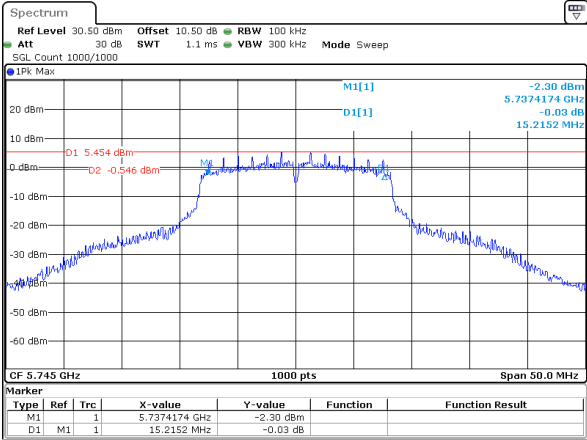
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:35:06

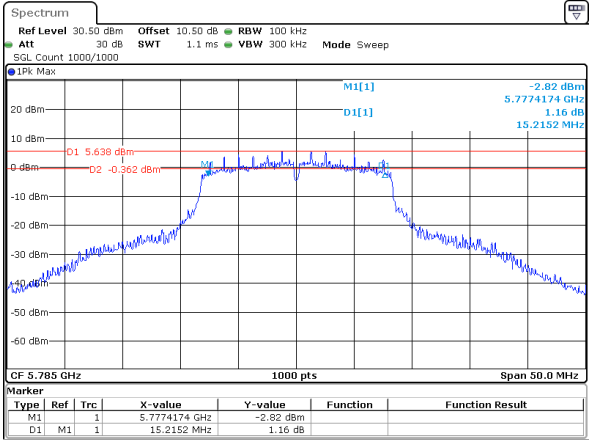
5725-5850MHz

802.11a_5745MHz_Chain 0



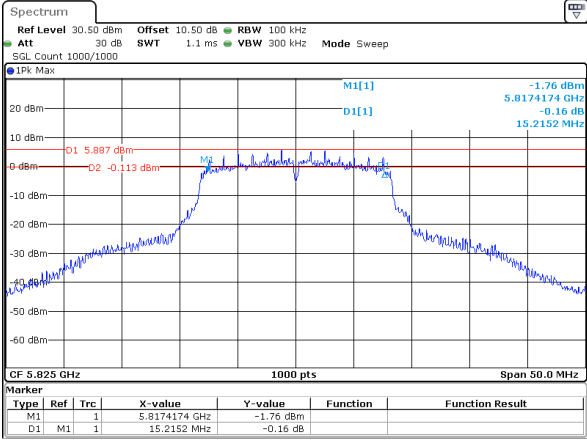
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Date: 1.JUL.2025 09:49:12

802.11a_5785MHz_Chain 0



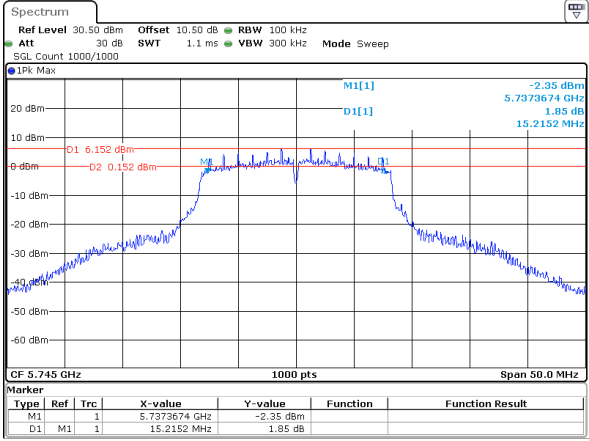
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Date: 1.JUL.2025 09:51:21

802.11a_5825MHz_Chain 0



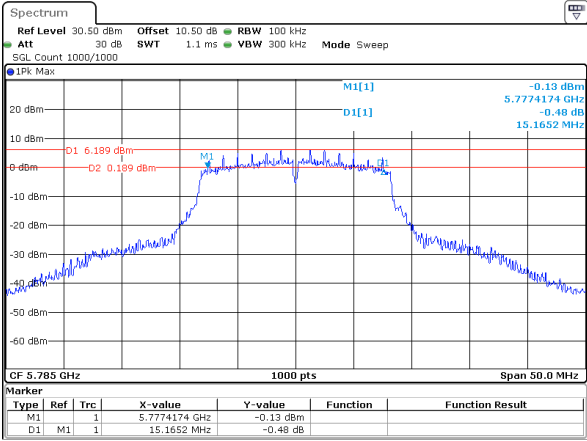
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802.11a_5745MHz_Chain 1



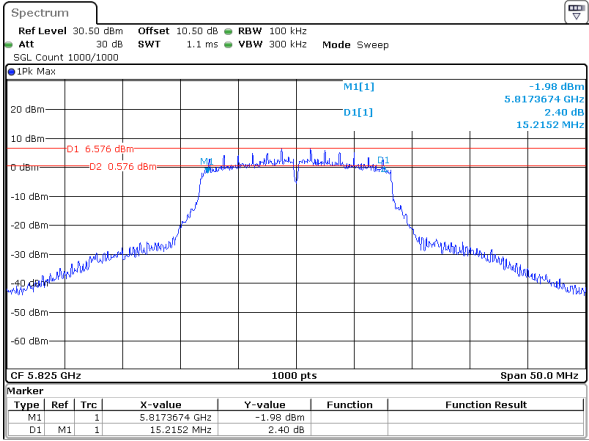
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802.11a_5785MHz_Chain 1



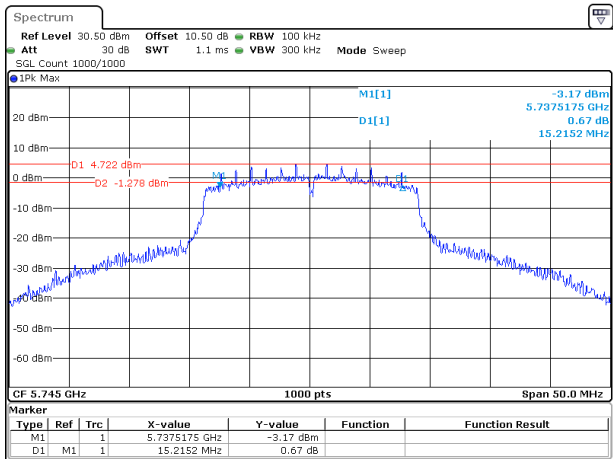
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802.11a_5825MHz_Chain 1



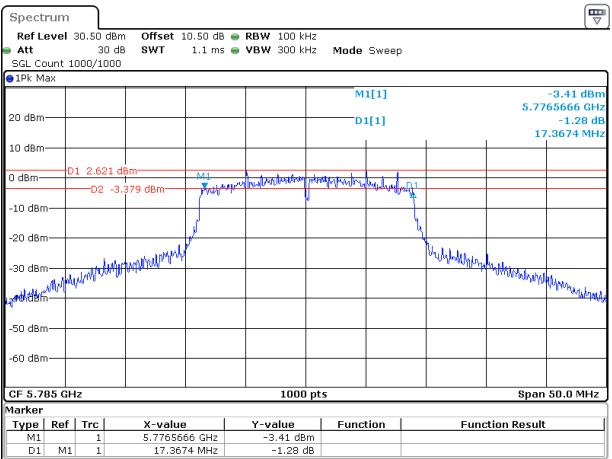
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:59:42

802.11ac20_5745MHz_Chain 0



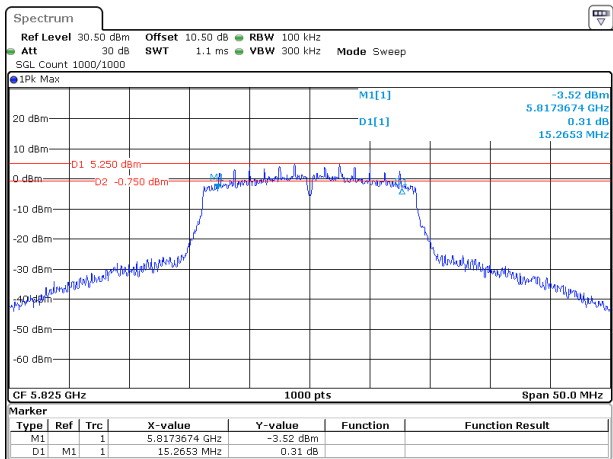
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Date: 1.JUL.2025 10:08:34

802.11ac20_5785MHz_Chain 0



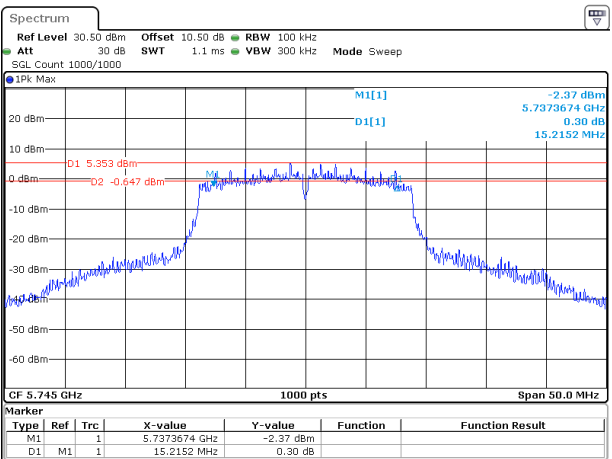
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802.11ac20_5825MHz_Chain 0



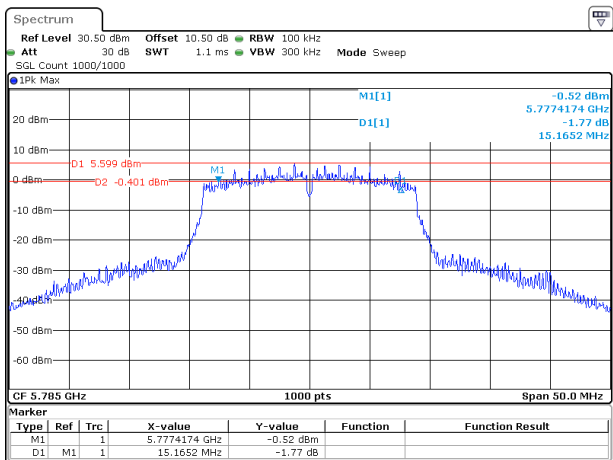
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:23:02

802.11ac20_5745MHz_Chain 1



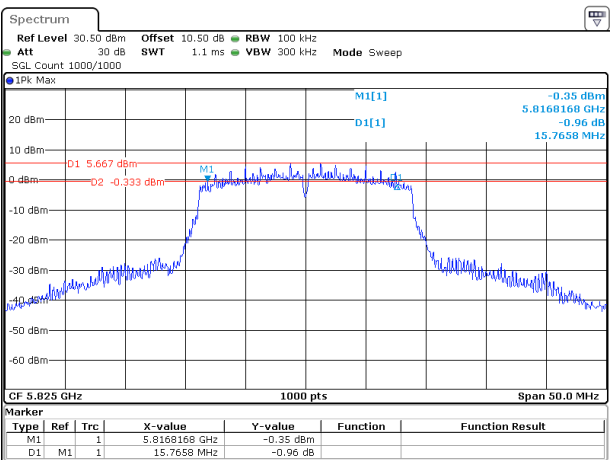
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Date: 1.JUL.2025 11:20:18

802.11ac20_5785MHz_Chain 1



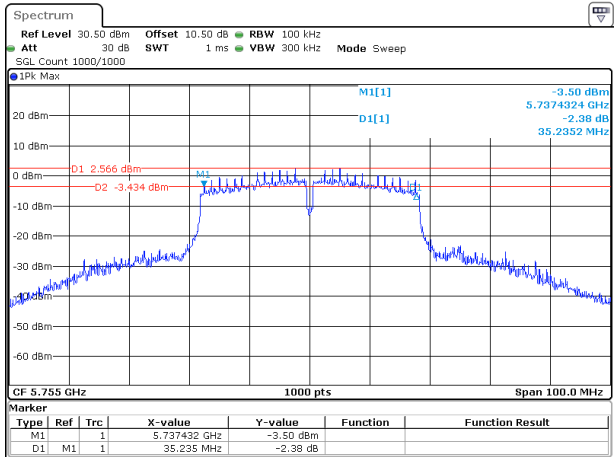
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:22:48

802.11ac20_5825MHz_Chain 1



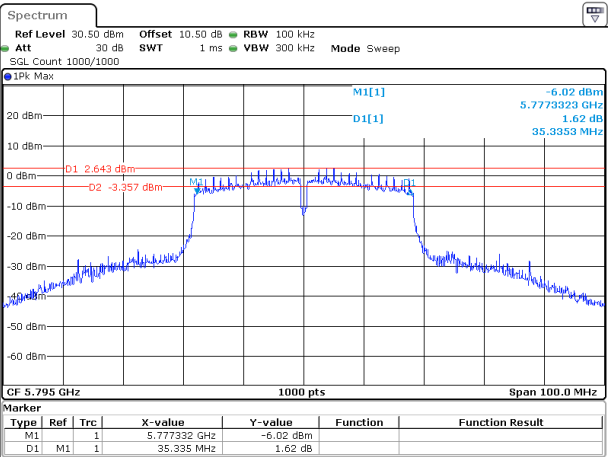
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:25:04

802.11ac40_5755MHz_Chain 0



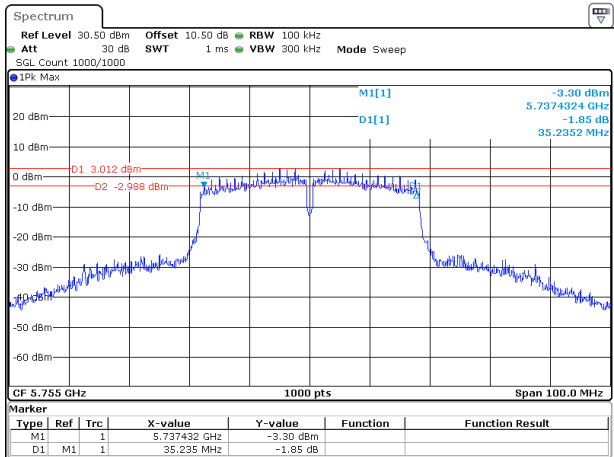
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:28:50

802.11ac40_5795MHz_Chain 0



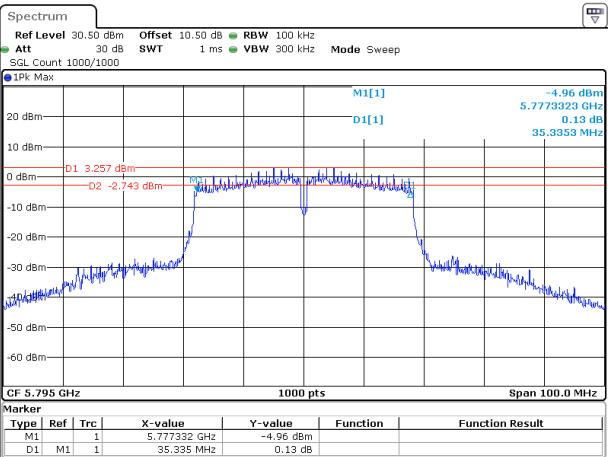
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:30:10

802.11ac40_5755MHz_Chain 1



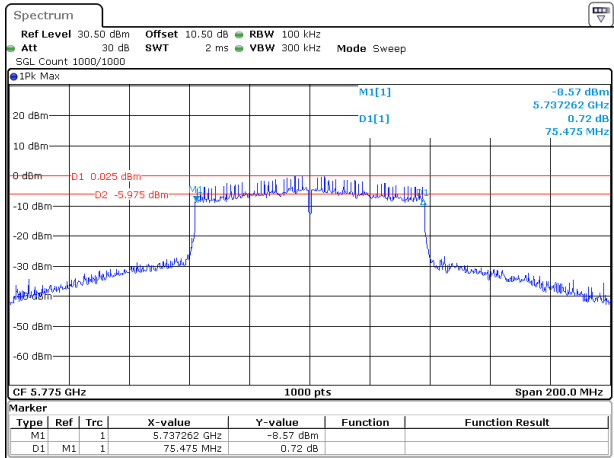
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:31:57

802.11ac40_5795MHz_Chain 1



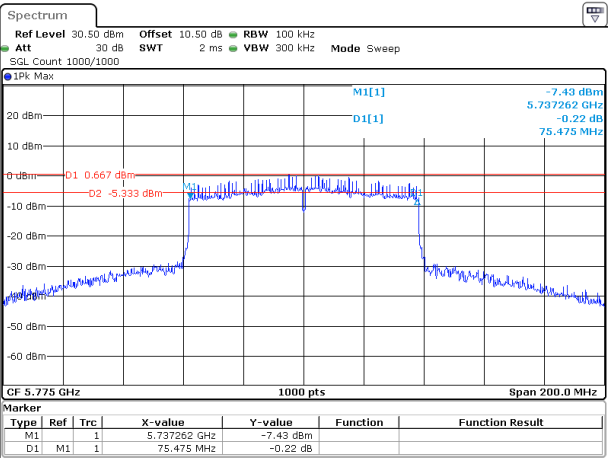
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:33:13

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:38:52

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:36:47

99% Occupied Bandwidth**Test Information:**

Sample No.:	348G-1	Test Date:	2025/07/01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1-26.3	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	101.2-101.4
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Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.500
		5200	16.650
		5240	16.650
	Chain 1	5180	16.700
		5200	16.600
		5240	16.600
802.11ac20	Chain 0	5180	17.600
		5200	17.650
		5240	17.650
	Chain 1	5180	17.550
		5200	17.600
		5240	17.600
802.11ac40	Chain 0	5190	36.200
		5230	36.200
	Chain 1	5190	36.200
		5230	36.200
802.11ac80	Chain 0	5210	75.600
	Chain 1	5210	75.200

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5725-5850MHz

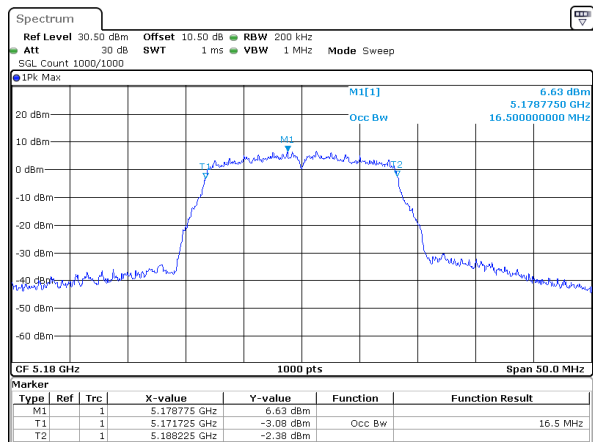
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	17
		5785	16.800
		5825	16.700
	Chain 1	5745	16.750
		5785	16.700
		5825	16.650
802.11ac20	Chain 0	5745	17.850
		5785	17.750
		5825	17.650
	Chain 1	5745	17.700
		5785	17.650
		5825	17.600
802.11ac40	Chain 0	5755	36.600
		5795	36.500
	Chain 1	5755	36.200
		5795	36.200
802.11ac80	Chain 0	5775	75.800
	Chain 1	5775	75.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

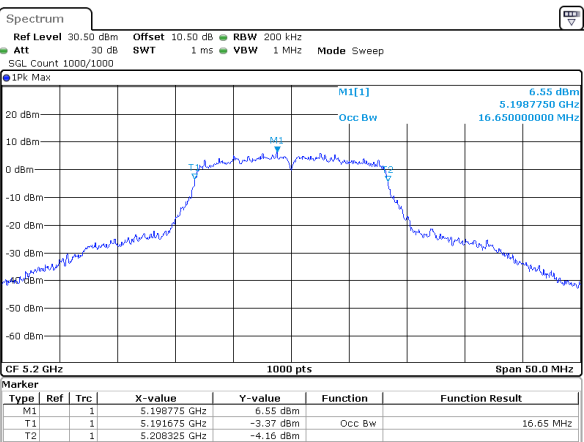
5150-5250MHz

802.11a_5180MHz_Chain 0



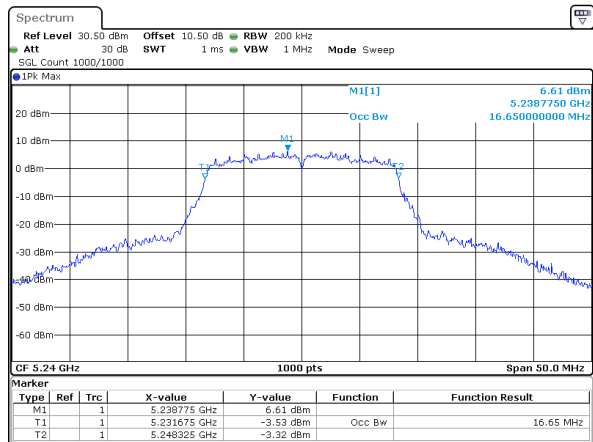
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:43:42

802.11a_5200MHz_Chain 0



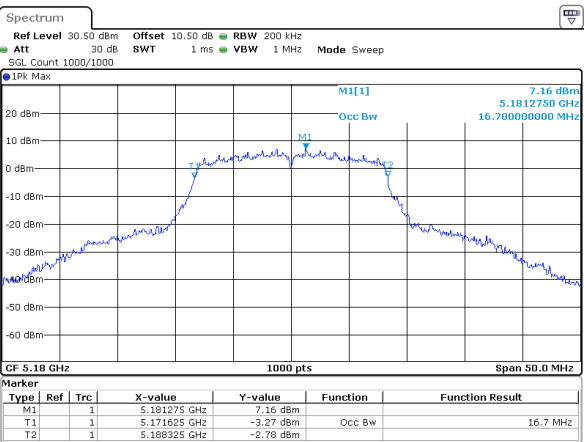
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:45:39

802.11a_5240MHz_Chain 0



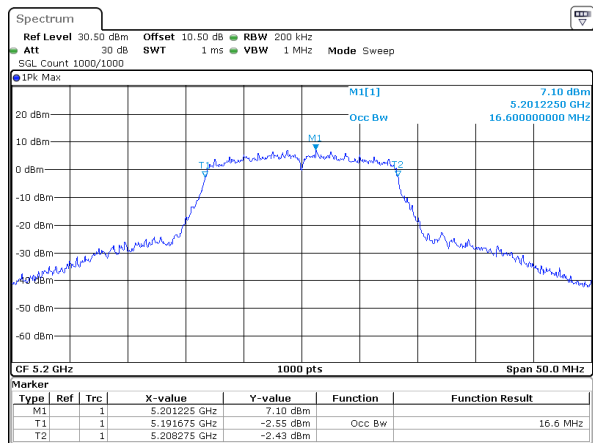
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:47:41

802.11a_5180MHz_Chain 1



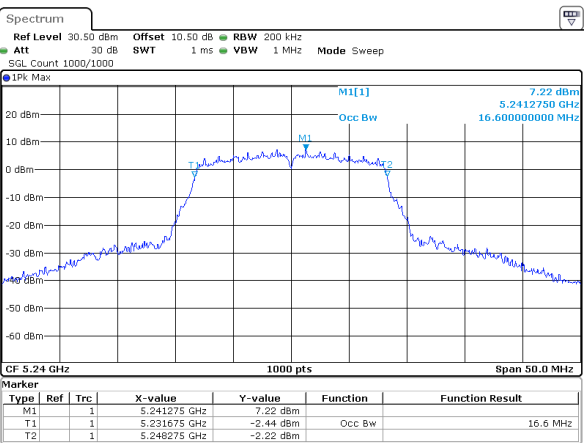
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:43:40

802.11a_5200MHz_Chain 1



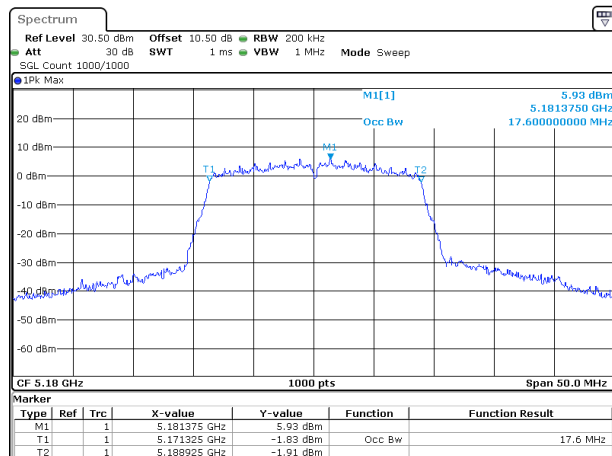
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:51:02

802.11a_5240MHz_Chain 1



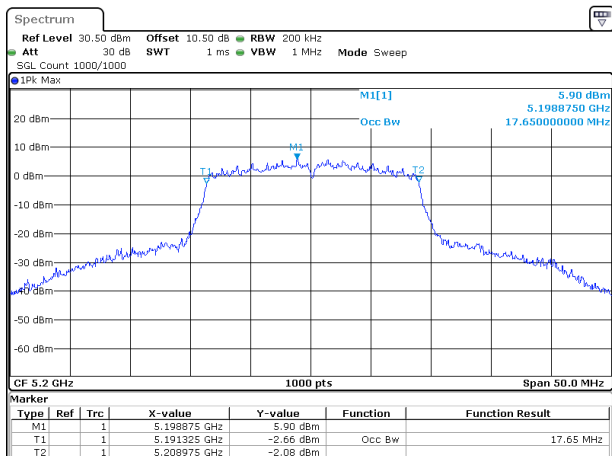
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Date: 1.JUL.2025 10:53:43

802.11ac20_5180MHz_Chain 0



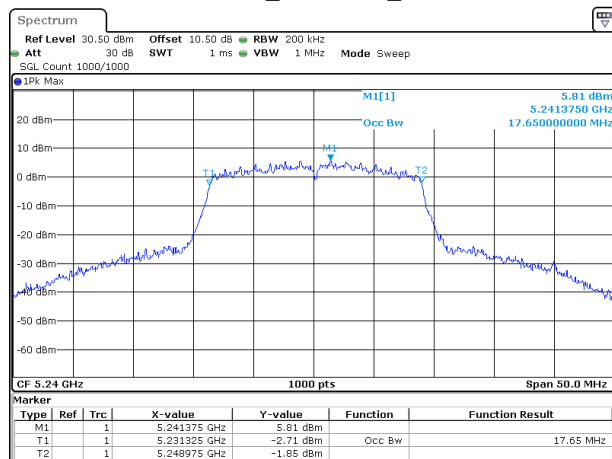
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:00:18

802.11ac20_5200MHz_Chain 0



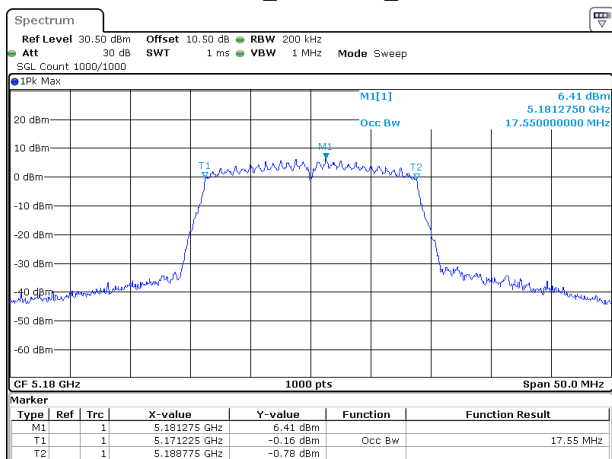
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Date: 1.JUL.2025 10:05:08

802.11ac20_5240MHz_Chain 0



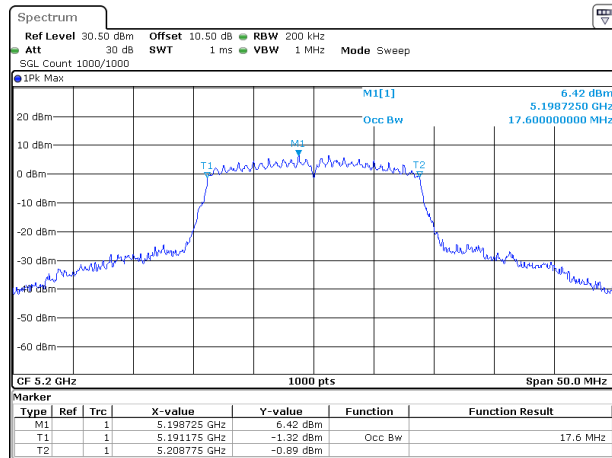
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Date: 1.JUL.2025 10:07:06

802.11ac20_5180MHz_Chain 1



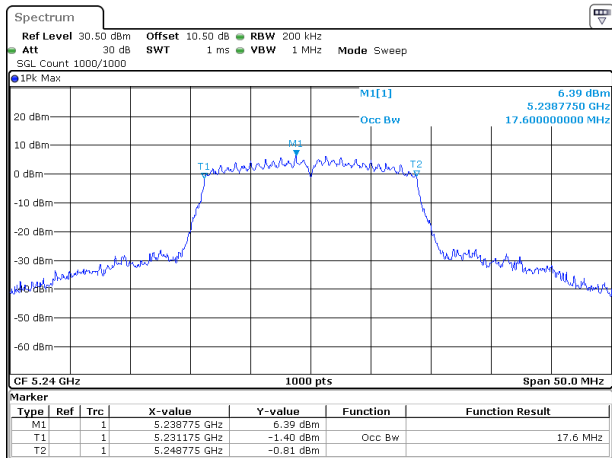
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Date: 1.JUL.2025 11:04:05

802.11ac20_5200MHz_Chain 1



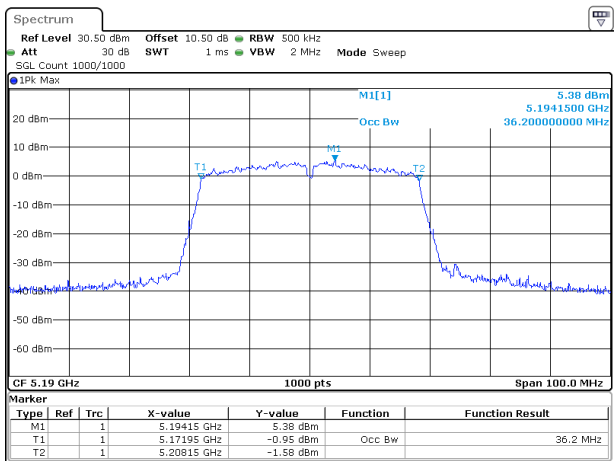
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Date: 1.JUL.2025 11:06:11

802.11ac20_5240MHz_Chain 1



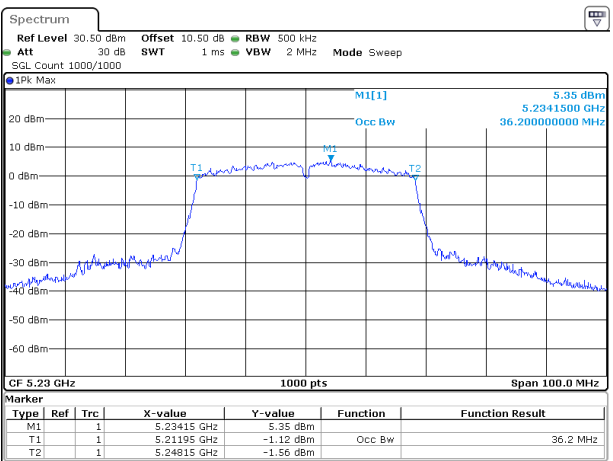
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:08:22

802.11ac40_5190MHz_Chain 0



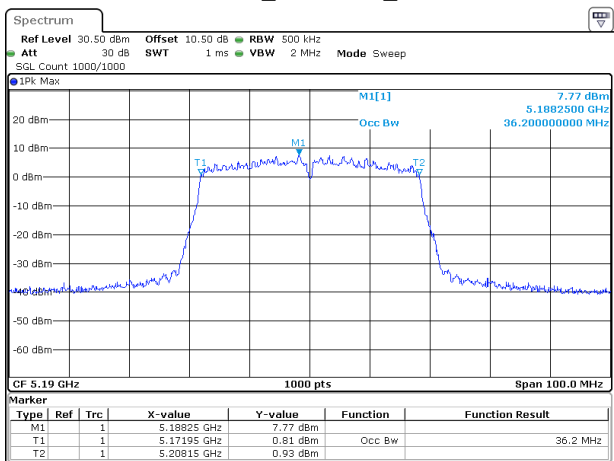
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:26:22

802.11ac40_5230MHz_Chain 0



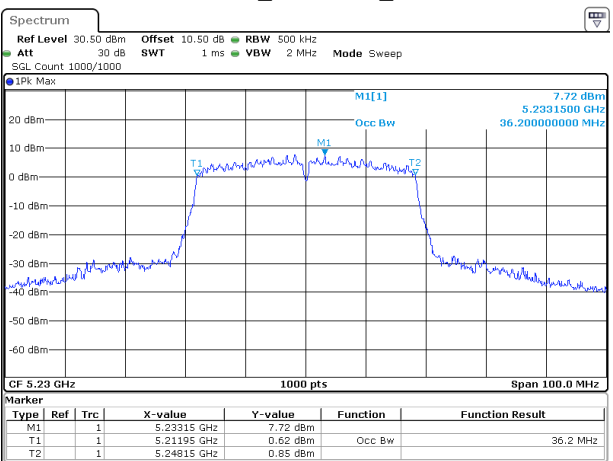
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:27:48

802.11ac40_5190MHz_Chain 1



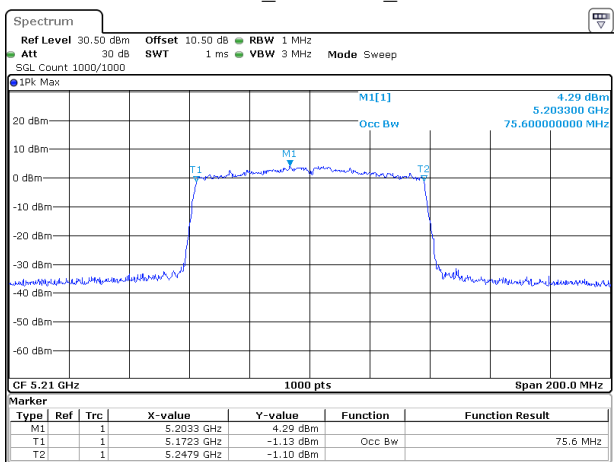
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:28:06

802.11ac40_5230MHz_Chain 1



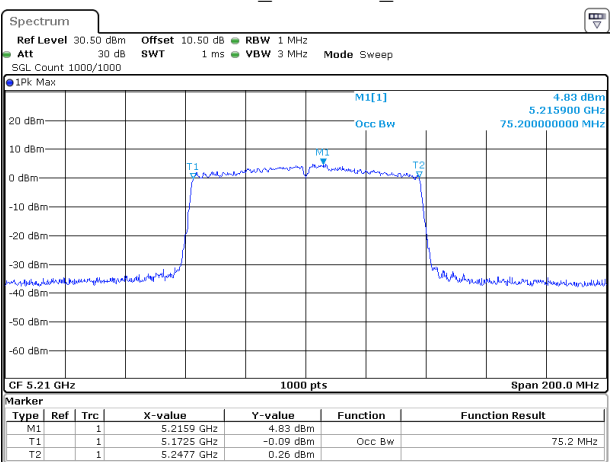
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:30:49

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:36:59

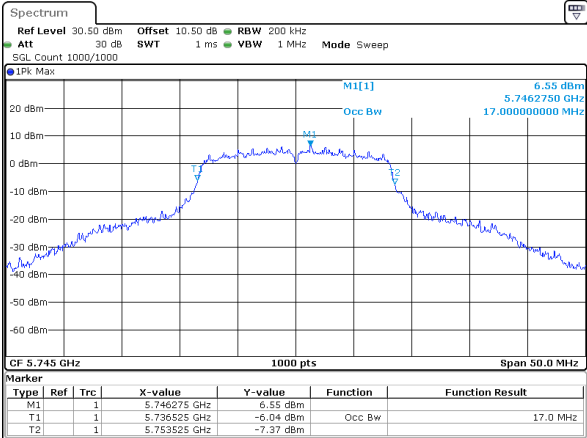
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:35:33

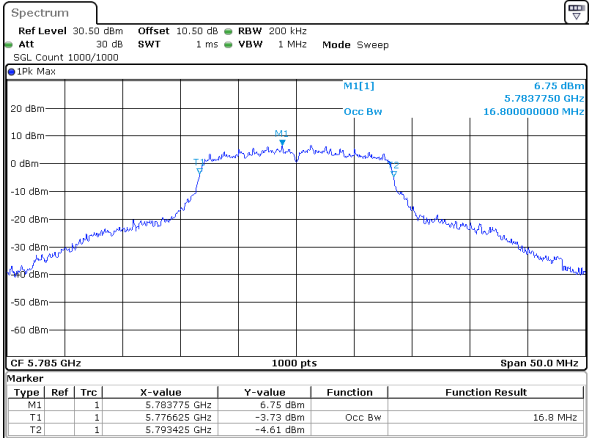
5725-5850MHz

802.11a_5745MHz_Chain 0



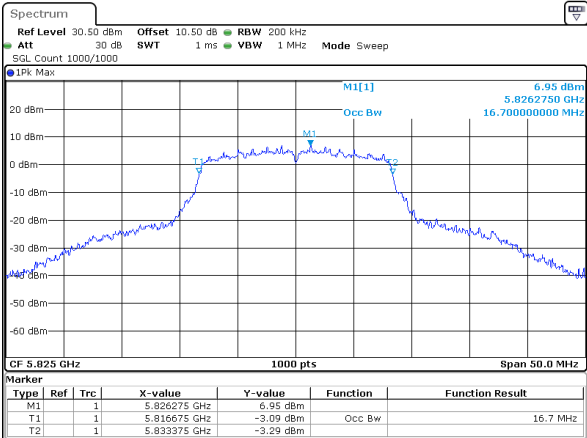
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Date: 1.JUL.2025 09:50:00

802.11a_5785MHz_Chain 0



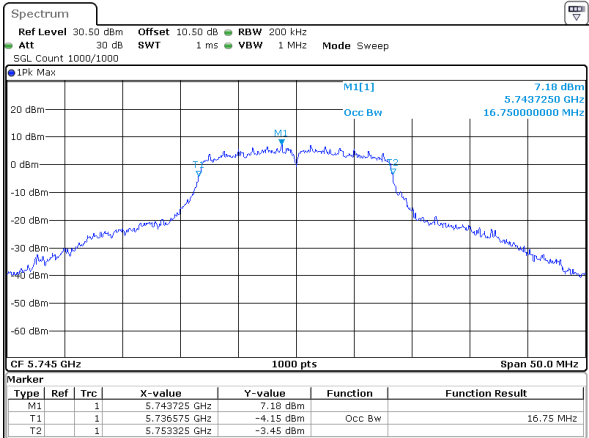
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Date: 1.JUL.2025 09:52:16

802.11a_5825MHz_Chain 0



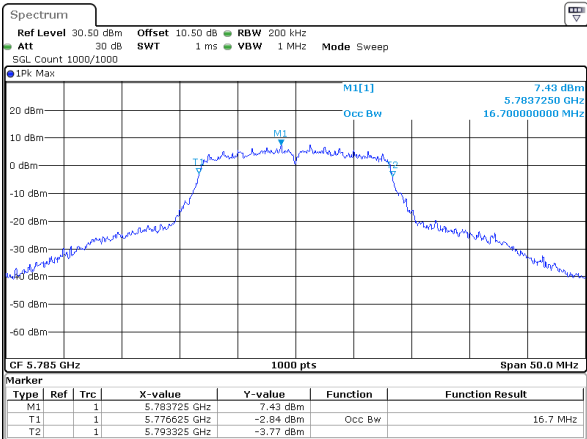
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:54:10

802.11a_5745MHz_Chain 1



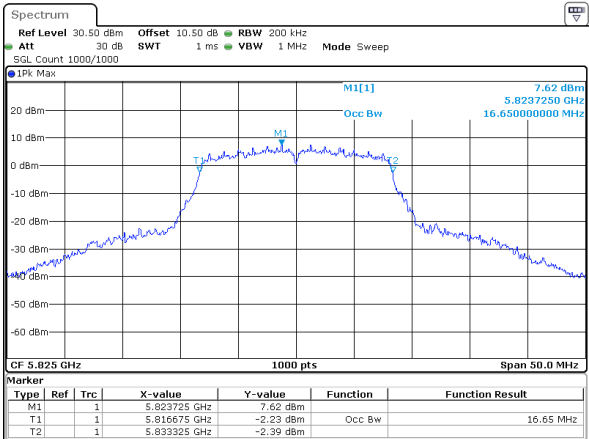
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Date: 1.JUL.2025 10:55:56

802.11a_5785MHz_Chain 1



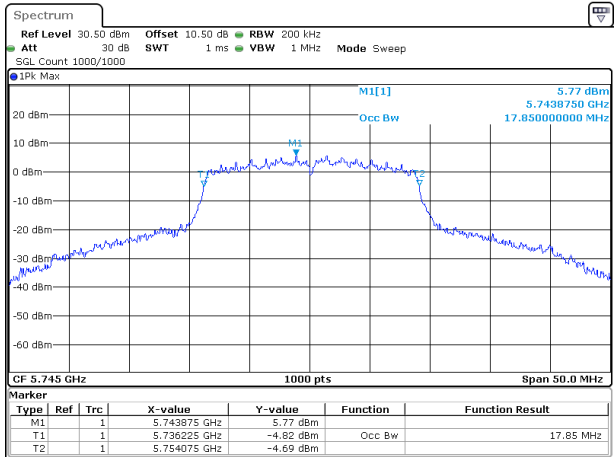
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:58:21

802.11a_5825MHz_Chain 1



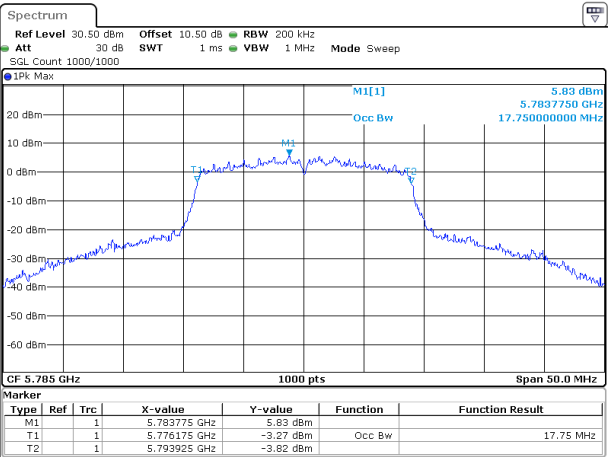
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:00:19

802.11ac20_5745MHz_Chain 0



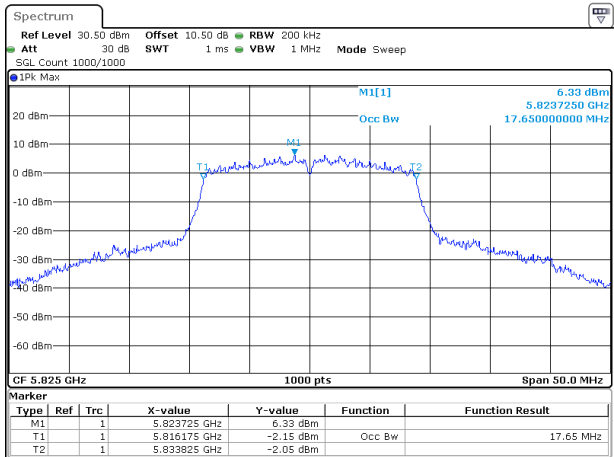
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Date: 1.JUL.2025 10:09:23

802.11ac20_5785MHz_Chain 0



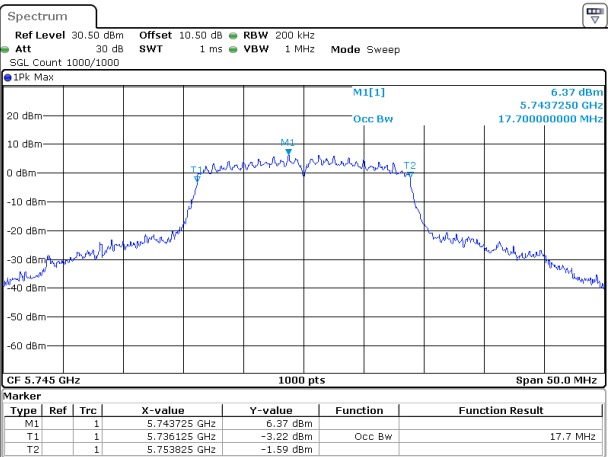
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:20:02

802.11ac20_5825MHz_Chain 0



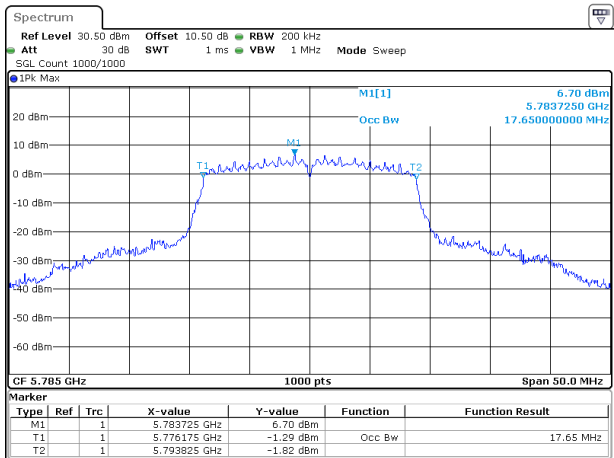
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Date: 1.JUL.2025 10:23:38

802.11ac20_5745MHz_Chain 1



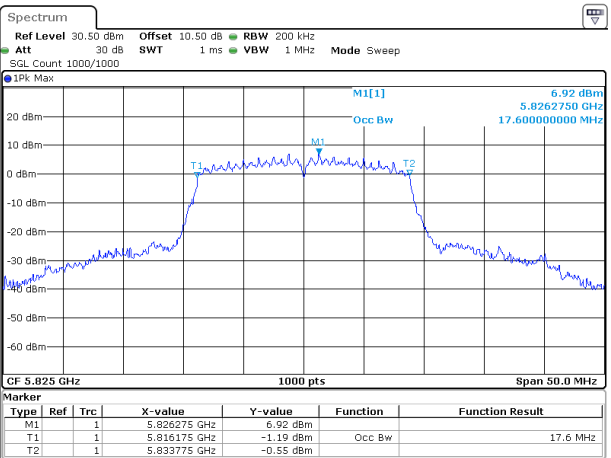
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802.11ac20_5785MHz_Chain 1



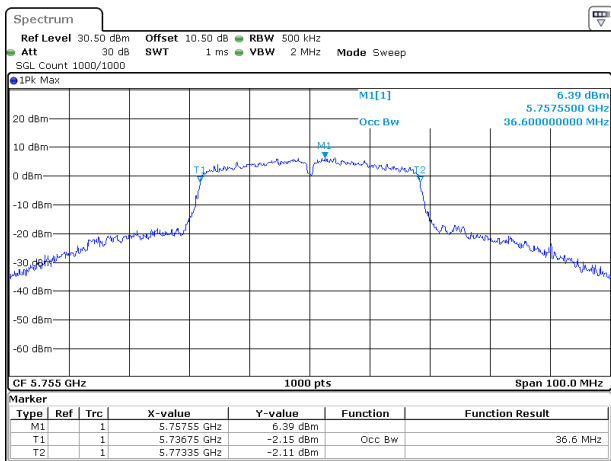
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Date: 1.JUL.2025 11:23:46

802.11ac20_5825MHz_Chain 1



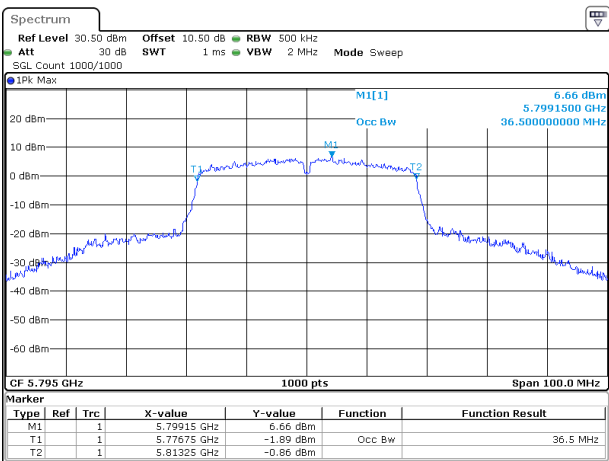
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Date: 1.JUL.2025 11:25:42

802.11ac40_5755MHz_Chain 0



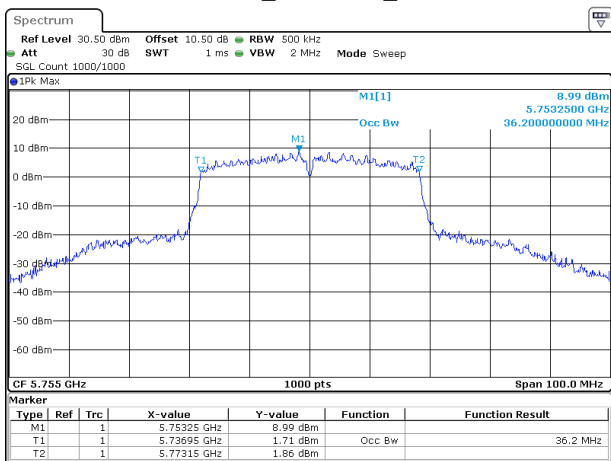
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Date: 1.JUL.2025 10:29:07

802.11ac40_5795MHz_Chain 0



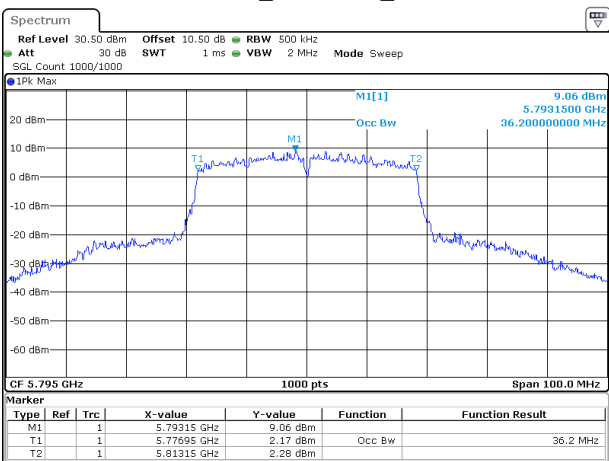
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Date: 1.JUL.2025 10:30:28

802.11ac40_5755MHz_Chain 1



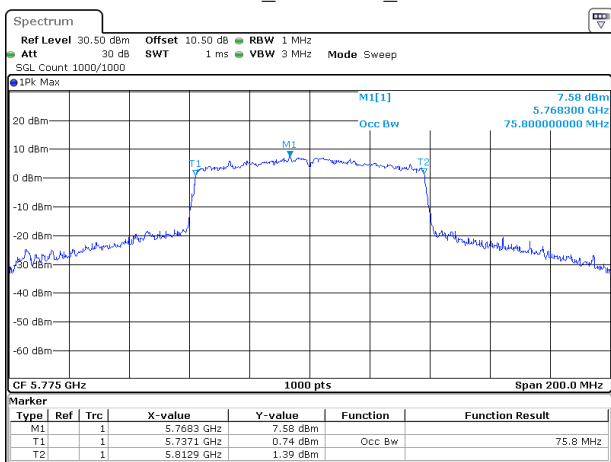
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Date: 1.JUL.2025 11:32:15

802.11ac40_5795MHz_Chain 1



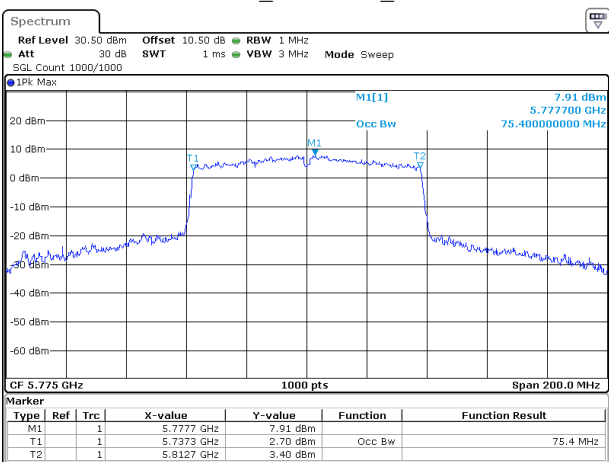
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:33:31

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:39:16

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:37:12

Maximum Conducted Output Power

Test Information:

Sample No.:	348G-1	Test Date:	2025/07/01~2025/07/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1-26.3	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	101.2-101.4
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Test Data:
5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	15.85	24	Pass
		5200	15.69	24	Pass
		5240	15.78	24	Pass
	Chain 1	5180	16.31	24	Pass
		5200	16.20	24	Pass
		5240	16.32	24	Pass
802.11ac20	Chain 0	5180	11.33	24	Pass
		5200	11.27	24	Pass
		5240	11.18	24	Pass
	Chain 1	5180	11.39	24	Pass
		5200	11.53	24	Pass
		5240	11.39	24	Pass
	Chain 0+Chain 1	5180	14.37	24	Pass
		5200	14.41	24	Pass
		5240	14.30	24	Pass
802.11ac40	Chain 0	5190	14.15	24	Pass
		5230	14.18	24	Pass
	Chain 1	5190	14.35	24	Pass
		5230	14.24	24	Pass
	Chain 0+Chain 1	5190	17.26	24	Pass
		5230	17.22	24	Pass
802.11ac80	Chain 0	5210	12.22	24	Pass
	Chain 1	5210	12.42	24	Pass
	Chain 0+Chain 1	5210	15.33	24	Pass

Note: For 802.11n/ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.84	dBi	Directional gain:	5.67	dBi
Chain 1 Gain:	2.48	dBi			

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	15.63	30	Pass
		5785	15.85	30	Pass
		5825	16.05	30	Pass
	Chain 1	5745	16.26	30	Pass
	Chain 1	5785	16.46	30	Pass
		5825	16.68	30	Pass
802.11ac20	Chain 0	5745	14.7	30	Pass
		5785	14.96	30	Pass
		5825	15.26	30	Pass
	Chain 1	5745	15.52	30	Pass
		5785	15.71	30	Pass
		5825	15.98	30	Pass
	Chain 0+Chain 1	5745	18.14	30	Pass
		5785	18.36	30	Pass
		5825	18.65	30	Pass
802.11ac40	Chain 0	5755	15.26	30	Pass
		5795	15.69	30	Pass
	Chain 1	5755	15.76	30	Pass
		5795	16.04	30	Pass
	Chain 0+Chain 1	5755	18.53	30	Pass
		5795	18.88	30	Pass
802.11ac80	Chain 0	5775	15.29	30	Pass
	Chain 1	5775	15.57	30	Pass
	Chain 0+Chain 1	5775	18.44	30	Pass

Note: For 802.11n/ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.04	dBi	Directional gain:	5.18	dBi
Chain 1 Gain:	2.30	dBi			

Power Spectral Density

Test Information:

Sample No.:	348G-1	Test Date:	2025/07/01~2025/07/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1-26.3	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	101.2-101.4
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Test Data:
5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5180	5.78	0.17	5.95	11	Pass
		5200	5.52	0.17	5.69	11	Pass
		5240	5.44	0.17	5.61	11	Pass
	Chain 1	5180	6.01	0.17	6.18	11	Pass
		5200	5.87	0.17	6.04	11	Pass
		5240	6.01	0.17	6.18	11	Pass
802.11ac20	Chain 0	5180	0.90	0.18	1.08	11	Pass
		5200	0.87	0.18	1.05	11	Pass
		5240	0.80	0.18	0.98	11	Pass
	Chain 1	5180	1.06	0.18	1.24	11	Pass
		5200	1.23	0.18	1.41	11	Pass
		5240	1.00	0.18	1.18	11	Pass
	Chain 0+Chain 1	5180	3.99	0.18	4.17	11	Pass
		5200	4.06	0.18	4.24	11	Pass
		5240	3.91	0.18	4.09	11	Pass
802.11ac40	Chain 0	5190	0.76	0.35	1.11	11	Pass
		5230	0.72	0.35	1.07	11	Pass
	Chain 1	5190	1.06	0.35	1.41	11	Pass
		5230	1.11	0.35	1.46	11	Pass
	Chain 0+Chain 1	5190	3.92	0.35	4.27	11	Pass
		5230	3.93	0.35	4.28	11	Pass
802.11ac80	Chain 0	5210	-4.89	0.65	-4.24	11	Pass
	Chain 1	5210	-4.50	0.65	-3.85	11	Pass
	Chain 0+Chain 1	5210	-1.68	0.65	-1.03	11	Pass

Note: For 802.11n/ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.84	dBi	Directional gain:	5.67	dBi
Chain 1 Gain:	2.48	dBi			

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	Chain 0	5745	2.56	0.17	2.73	30	Pass
		5785	2.85	0.17	3.02	30	Pass
		5825	3.15	0.17	3.32	30	Pass
	Chain 1	5745	3.10	0.17	3.27	30	Pass
		5785	3.54	0.17	3.71	30	Pass
		5825	3.57	0.17	3.74	30	Pass
802.11ac20	Chain 0	5745	1.58	0.18	1.76	30	Pass
		5785	2.02	0.18	2.20	30	Pass
		5825	2.28	0.18	2.46	30	Pass
	Chain 1	5745	2.40	0.18	2.58	30	Pass
		5785	2.64	0.18	2.82	30	Pass
		5825	2.83	0.18	3.01	30	Pass
	Chain 0+Chain 1	5745	5.02	0.18	5.2	30	Pass
		5785	5.35	0.18	5.53	30	Pass
		5825	5.57	0.18	5.75	30	Pass
802.11ac40	Chain 0	5755	-1.04	0.35	-0.69	30	Pass
		5795	-0.93	0.35	-0.58	30	Pass
	Chain 1	5755	-0.79	0.35	-0.44	30	Pass
		5795	-0.54	0.35	-0.19	30	Pass
	Chain 0+Chain 1	5755	2.1	0.35	2.45	30	Pass
		5795	2.28	0.35	2.63	30	Pass
802.11ac80	Chain 0	5775	-4.18	0.65	-3.53	30	Pass
	Chain 1	5775	-4.02	0.65	-3.37	30	Pass
	Chain 0+Chain 1	5775	-1.09	0.65	-0.44	30	Pass

Note: For 802.11n/ac modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

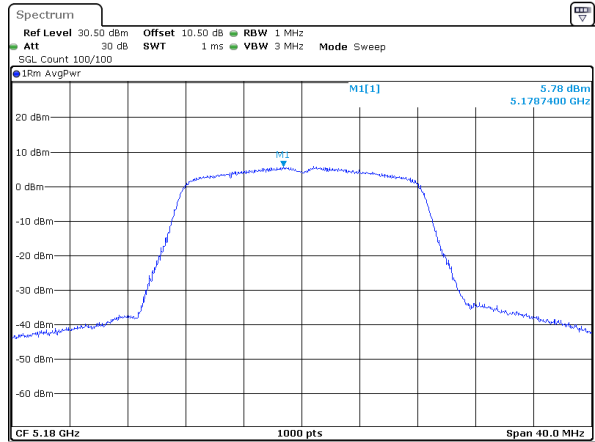
$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.04	dBi	Directional gain:	5.18	dBi
Chain 1 Gain:	2.30	dBi			

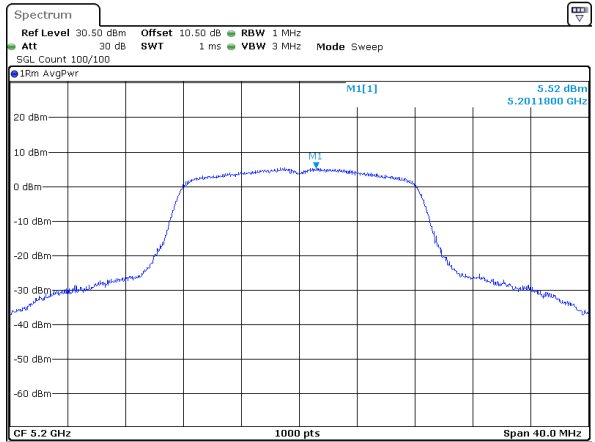
5150-5250MHz

802.11a_5180MHz_Chain 0



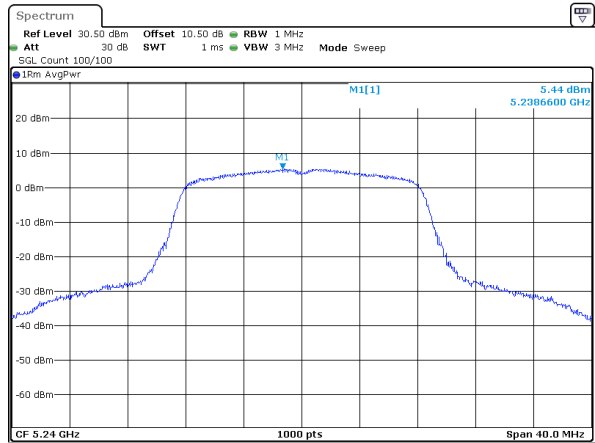
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:43:59

802.11a_5200MHz_Chain 0



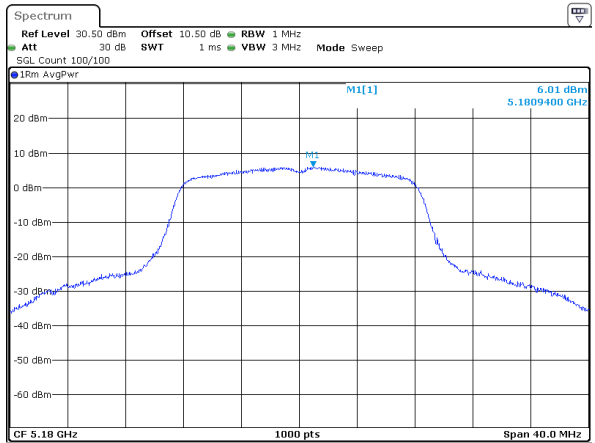
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:45:54

802.11a_5240MHz_Chain 0



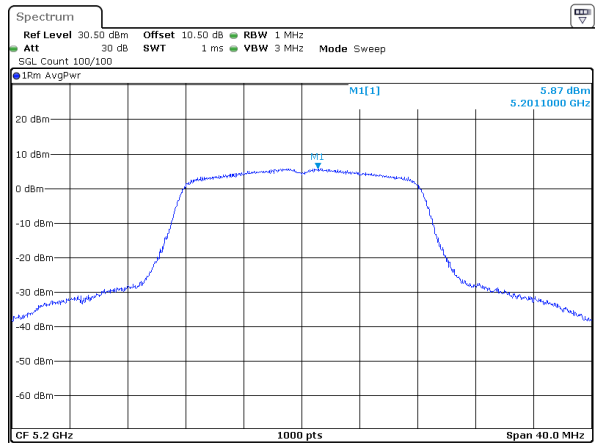
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:47:56

802.11a_5180MHz_Chain 1



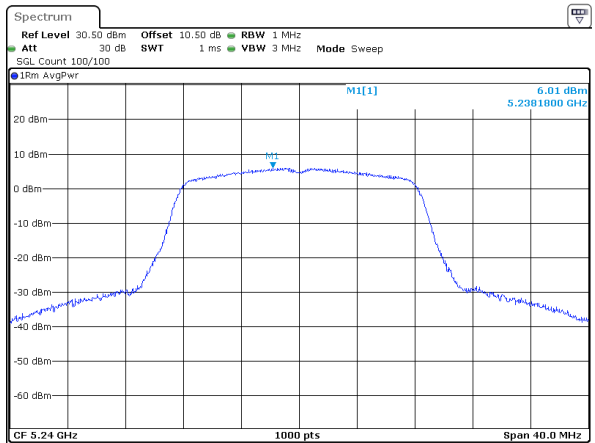
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Date: 1.JUL.2025 10:44:00

802.11a_5200MHz_Chain 1



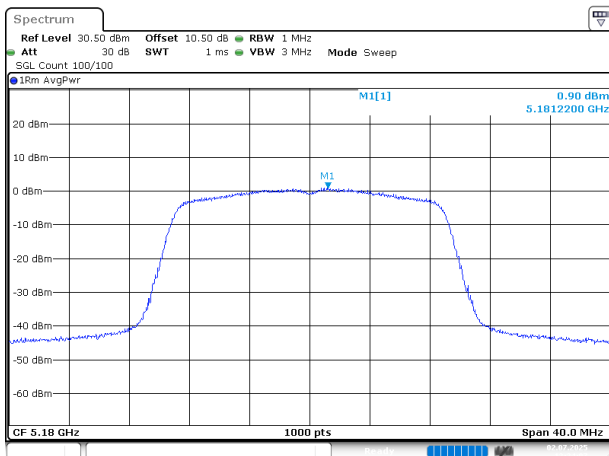
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Date: 1.JUL.2025 10:51:21

802.11a_5240MHz_Chain 1



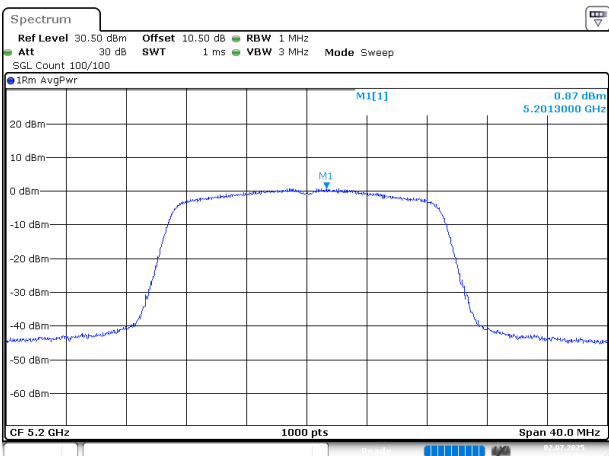
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:54:01

802.11ac20_5180MHz_Chain 0



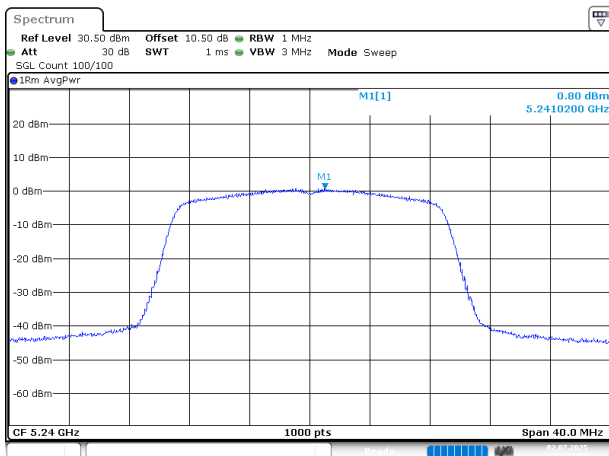
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 2.JUL.2025 12:34:07

802.11ac20_5200MHz_Chain 0



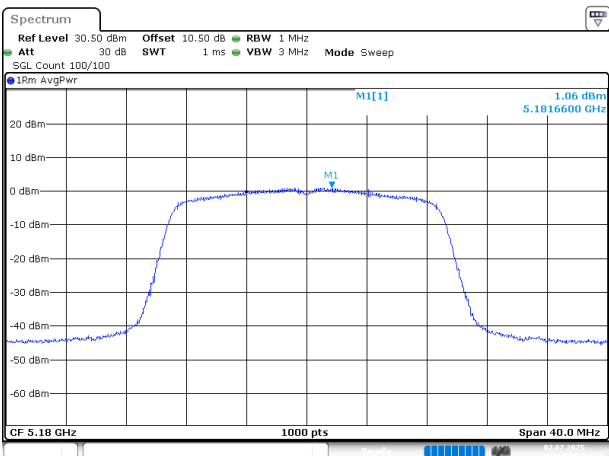
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Date: 2.JUL.2025 12:36:02

802.11ac20_5240MHz_Chain 0



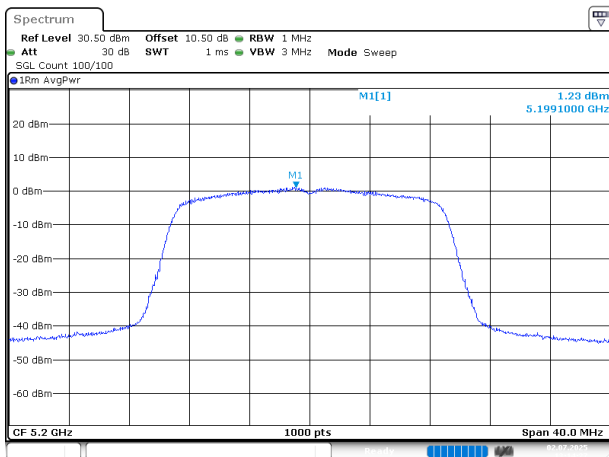
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Date: 2.JUL.2025 13:11:01

802.11ac20_5180MHz_Chain 1



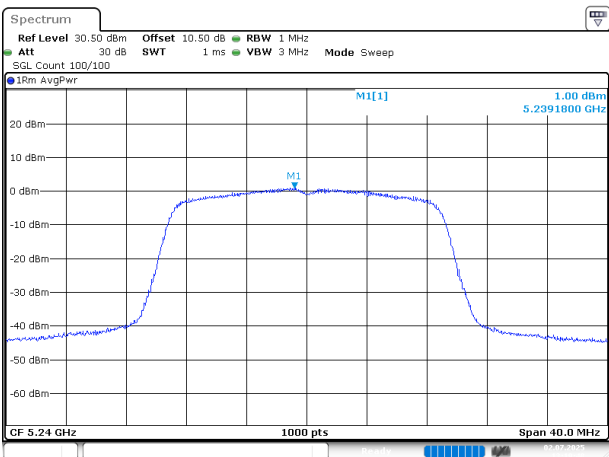
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Date: 2.JUL.2025 13:12:34

802.11ac20_5200MHz_Chain 1



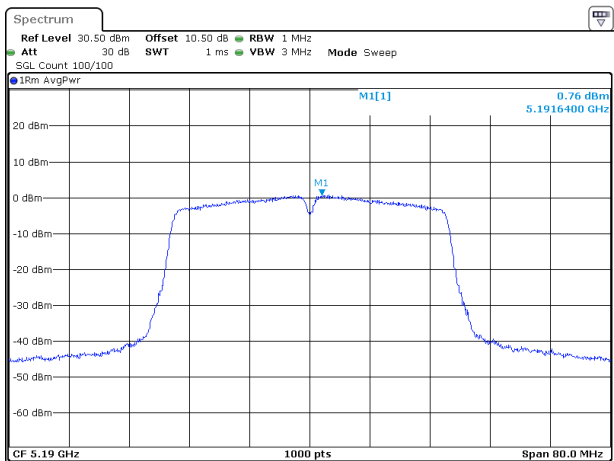
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Date: 2.JUL.2025 13:14:28

802.11ac20_5240MHz_Chain 1



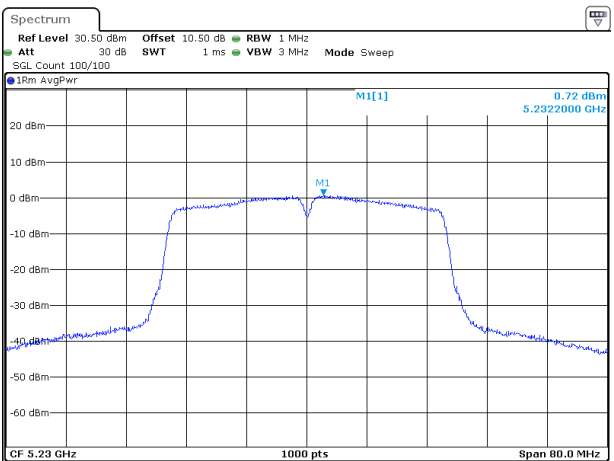
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 2.JUL.2025 13:19:49

802.11ac40_5190MHz_Chain 0



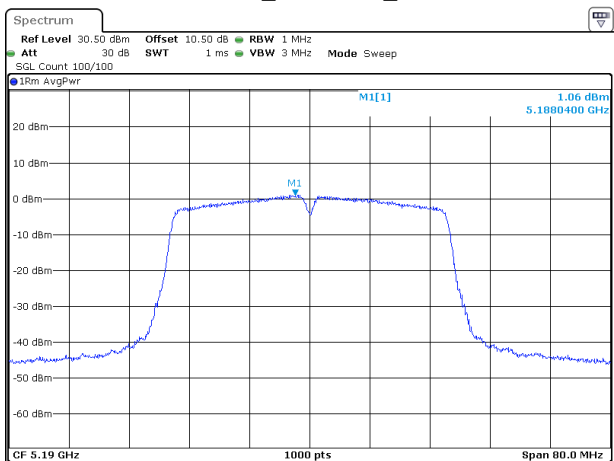
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:26:41

802.11ac40_5230MHz_Chain 0



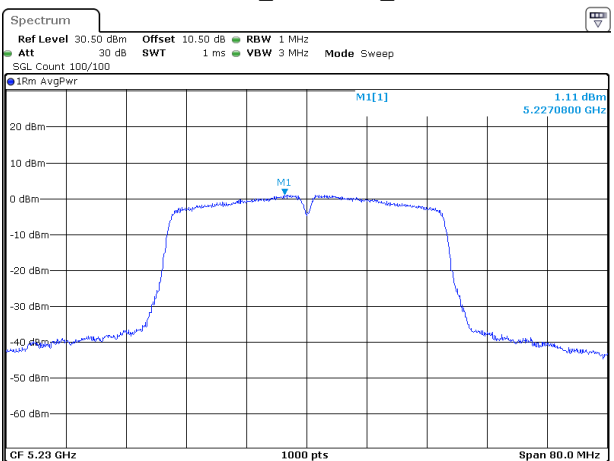
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:28:07

802.11ac40_5190MHz_Chain 1



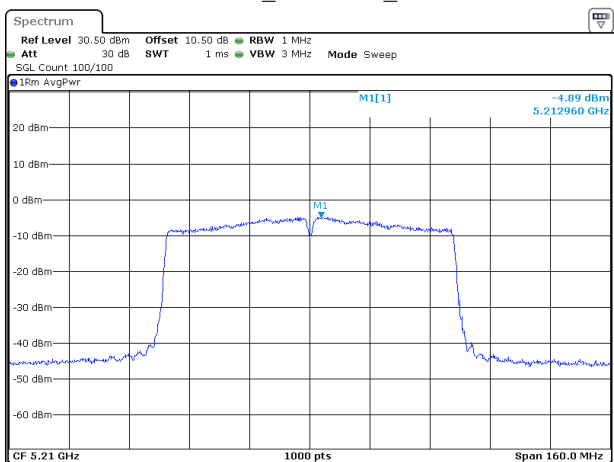
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Date: 1.JUL.2025 11:28:29

802.11ac40_5230MHz_Chain 1



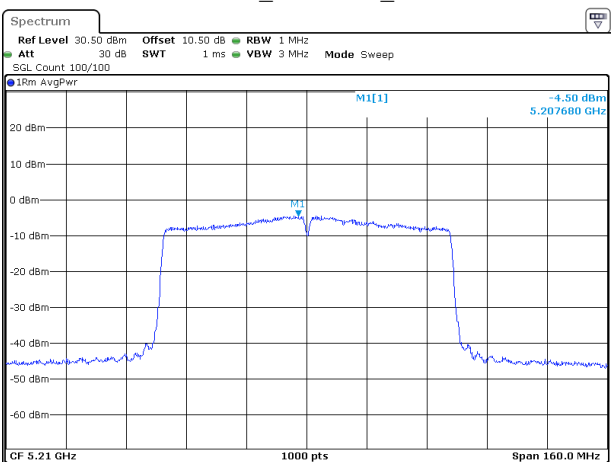
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:31:11

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:37:19

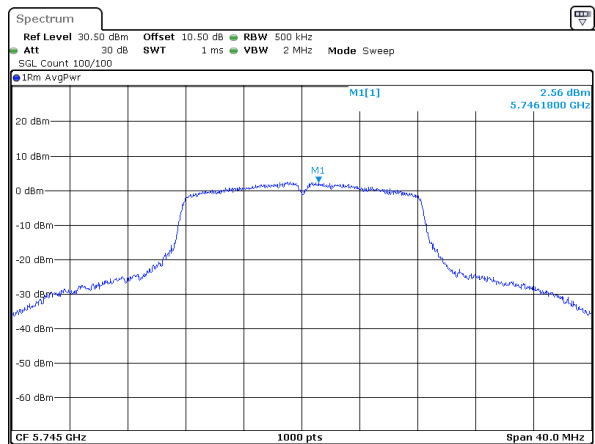
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:35:57

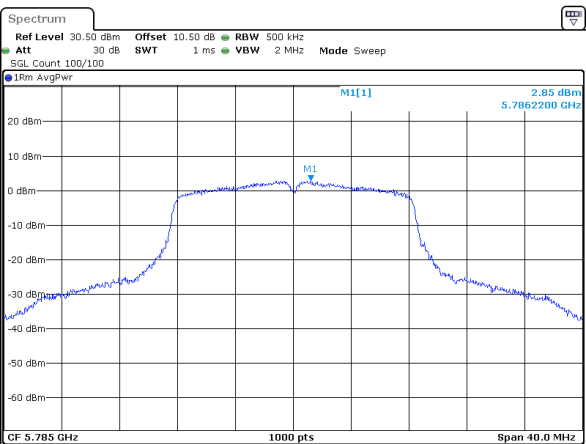
5725-5850MHz

802.11a_5745MHz_Chain 0



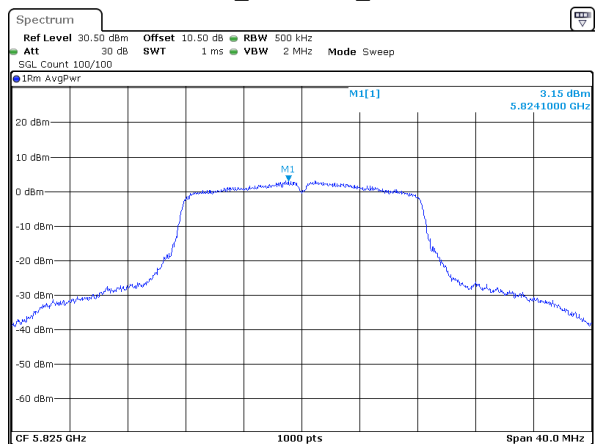
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:50:16

802.11a_5785MHz_Chain 0



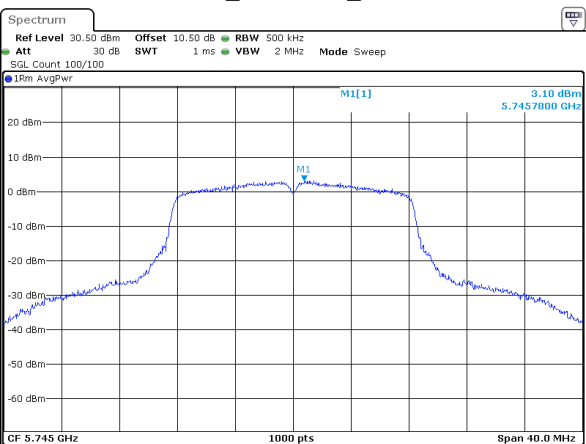
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:52:32

802.11a_5825MHz_Chain 0



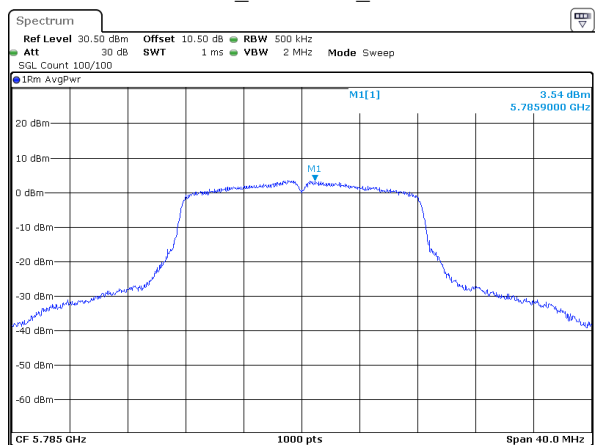
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 09:54:26

802.11a_5745MHz_Chain 1



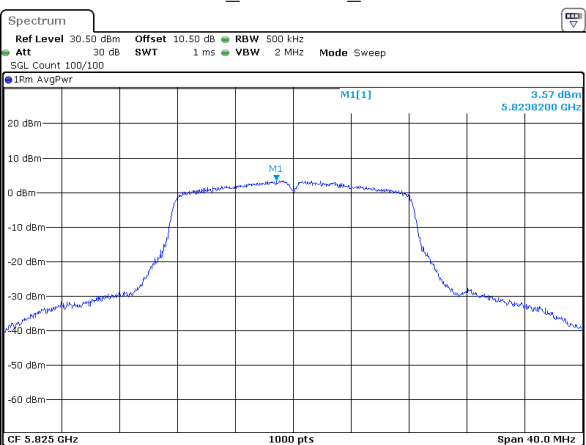
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:56:15

802.11a_5785MHz_Chain 1



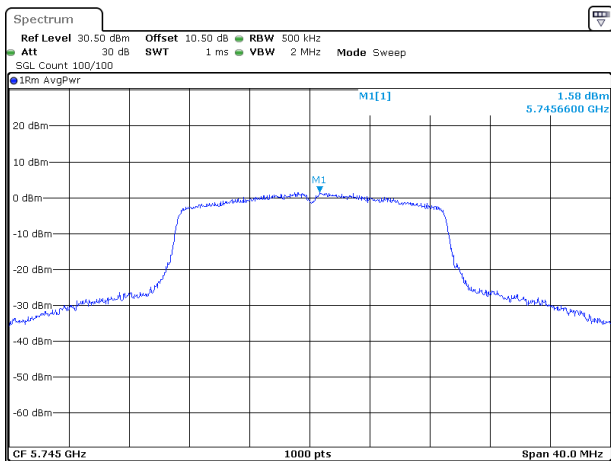
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Date: 1.JUL.2025 10:58:40

802.11a_5825MHz_Chain 1



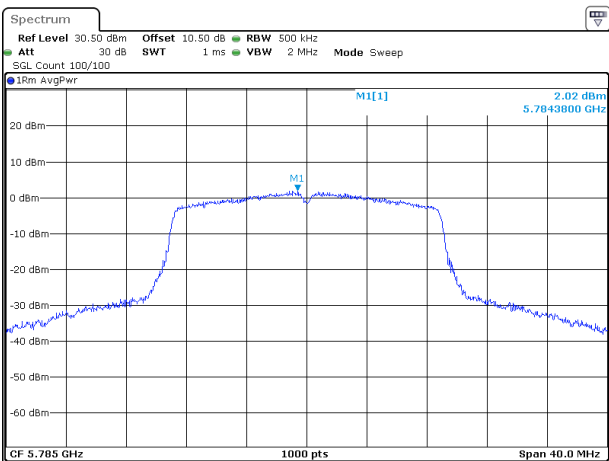
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Date: 1.JUL.2025 11:00:37

802.11ac20_5745MHz_Chain 0



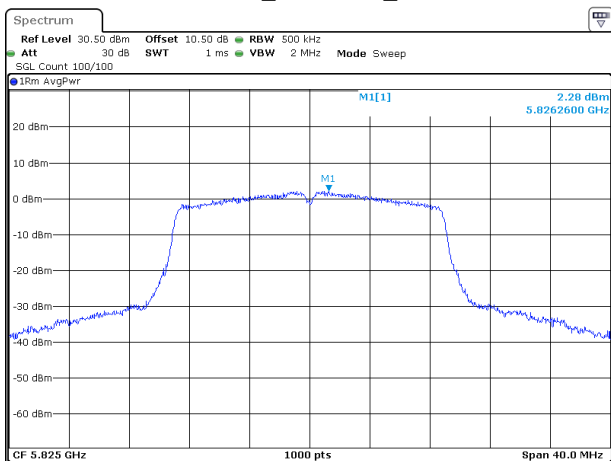
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:09:41

802.11ac20_5785MHz_Chain 0



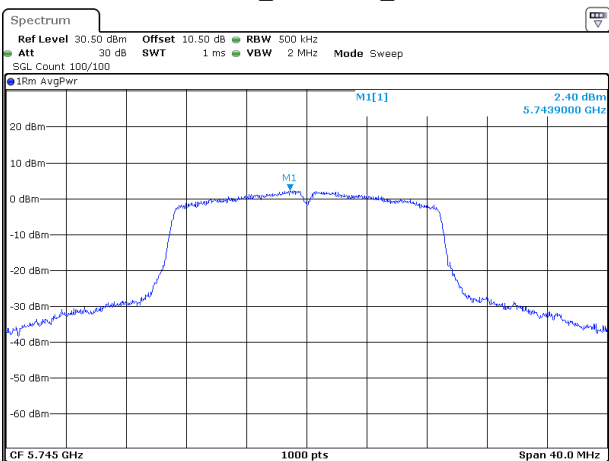
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Date: 1.JUL.2025 10:20:20

802.11ac20_5825MHz_Chain 0



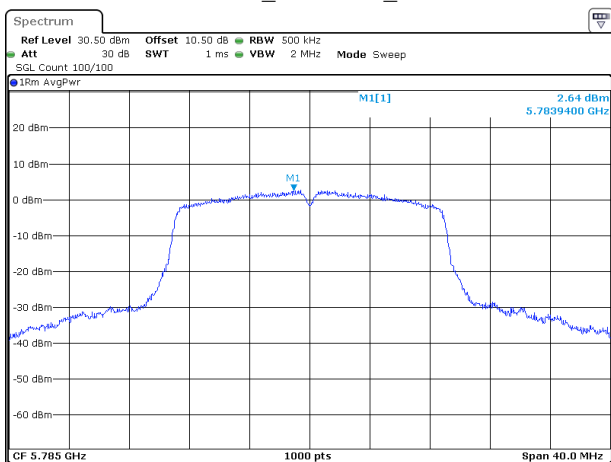
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Date: 1.JUL.2025 10:23:56

802.11ac20_5745MHz_Chain 1



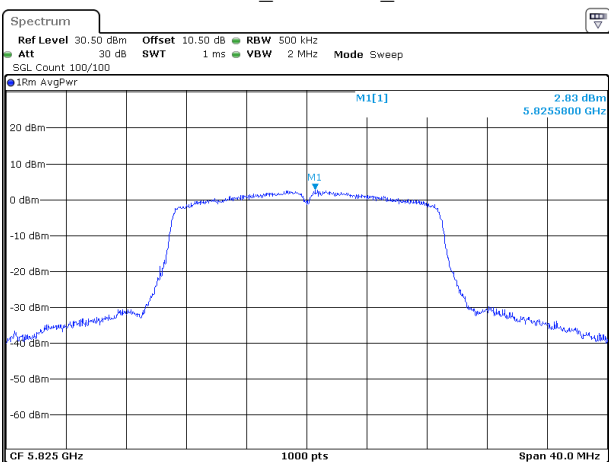
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:21:28

802.11ac20_5785MHz_Chain 1



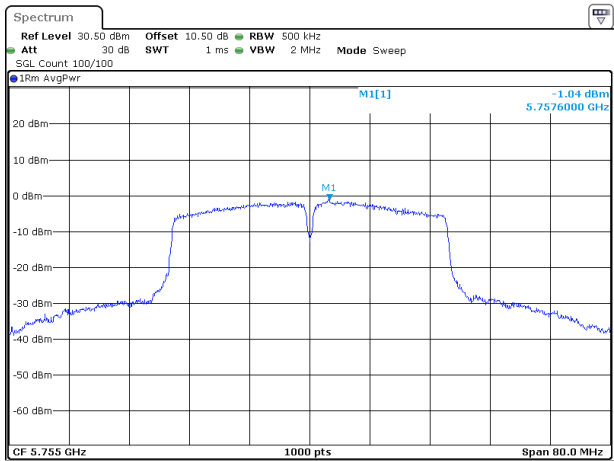
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:24:08

802.11ac20_5825MHz_Chain 1



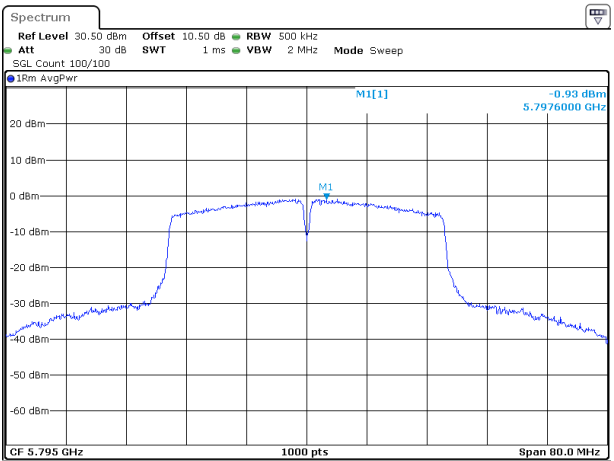
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:26:01

802.11ac40_5755MHz_Chain 0



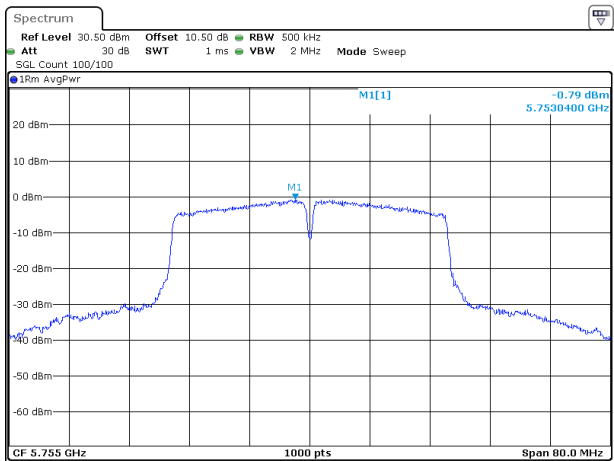
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Date: 1.JUL.2025 10:29:28

802.11ac40_5795MHz_Chain 0



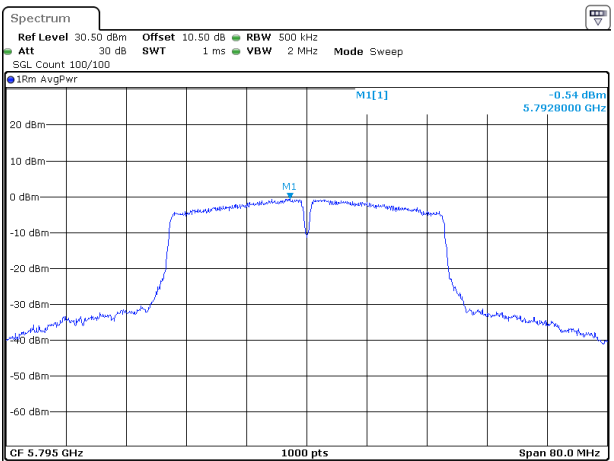
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Date: 1.JUL.2025 10:30:46

802.11ac40_5755MHz_Chain 1



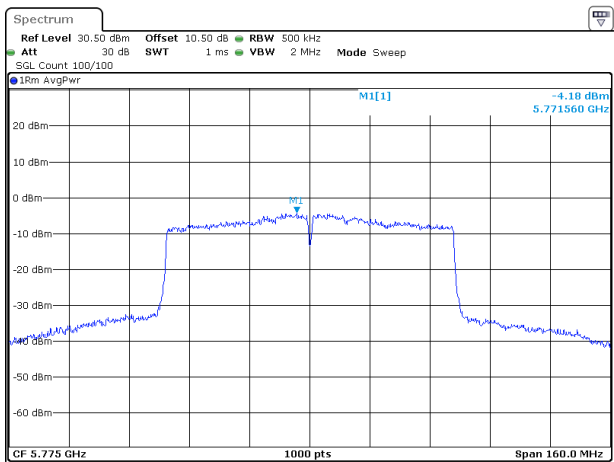
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Date: 1.JUL.2025 11:32:35

802.11ac40_5795MHz_Chain 1



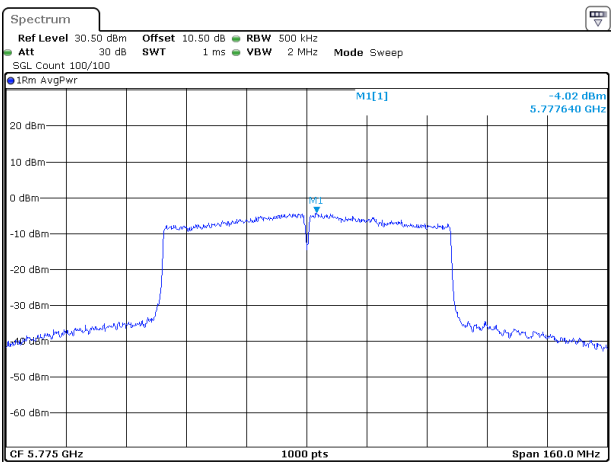
ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:33:52

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 10:39:36

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501U29284E-RF Tester:Cheeb Huang
Date: 1.JUL.2025 11:37:34

Duty Cycle

Test Information:

Sample No.:	348G-1	Test Date:	2025/06/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang	Test Result:	Pass

Environmental Conditions:

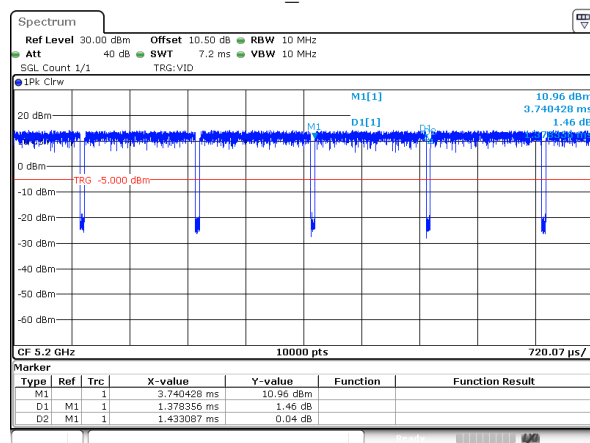
Temperature: (°C)	26.1-26.3	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	101.2-101.4
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Test Data:

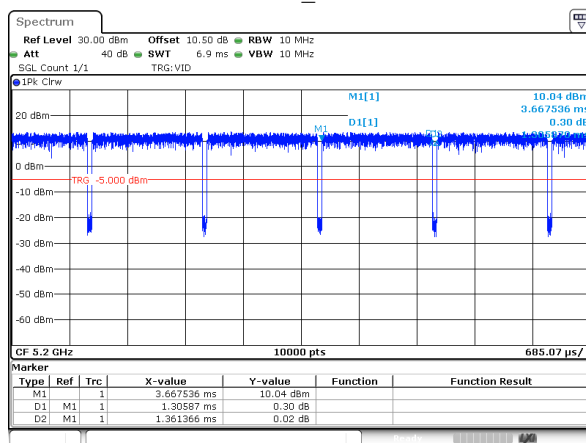
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.378	1.433	96.16	0.17	726	1
802.11ac20	5200	1.306	1.361	95.96	0.18	766	1
802.11ac40	5190	0.651	0.705	92.34	0.35	1536	2
802.11ac80	5210	0.324	0.376	86.17	0.65	3086	5

$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff}) \times 100\%$$

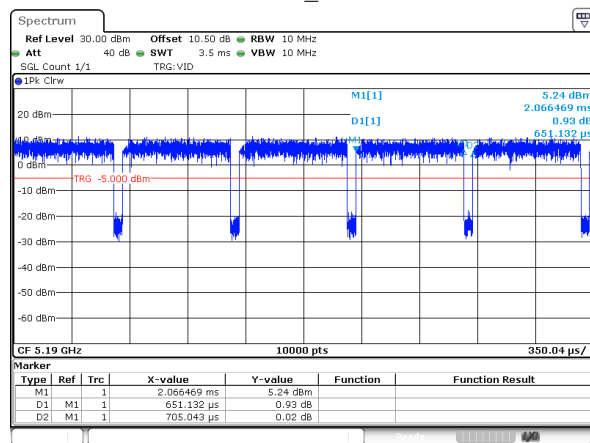
802.11a_5200MHz



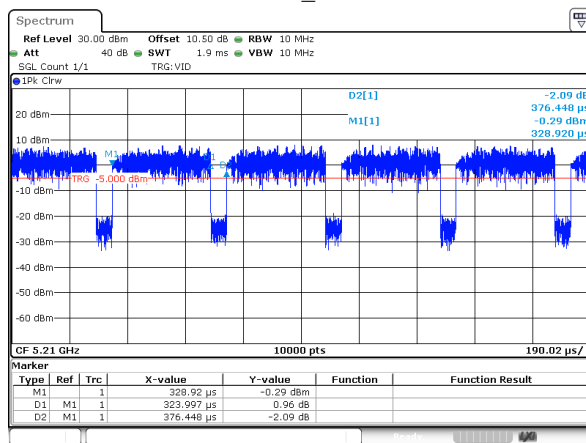
802.11ac20_5200MHz



802.11ac40_5190MHz



802.11ac80_5210MHz



RF EXPOSURE EVALUATION

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

For worst case:

Mode	Frequency (MHz)	Antenna Gain [#]		Max Tune-up Power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2402-2480	2.64	1.84	9.0	7.94	20	0.0029	1.0
BLE	2402-2480	2.64	1.84	2.5	1.78	20	0.0007	1.0
2.4G Wi-Fi	2412-2462	5.83	3.83	25.5	354.81	20	0.2703	1.0
5G Wi-Fi	5150-5250	5.67	3.69	18.0	63.10	20	0.0463	1.0
	5725-5850	5.18	3.30	19.0	79.43	20	0.0521	1.0

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) For the Wi-Fi mode, the antenna gain should be the directional gain.
- 3) The BT and Wi-Fi can transmit at same time, the 2.4G and 5G Wi-Fi cannot transmit at same time.

Simultaneous transmitting consideration (worst case):

The ratio= $MPE_{BT}/limit + MPE_{2.4G\ Wi-Fi}/limit = 0.0029/1.0 + 0.2703/1.0 = 0.273 < 1.0$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

EUT PHOTOGRAPHS

Please refer to the attachment 2501U29284E-RF External photo and 2501U29284E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501U29284E-RF-00D Test Setup photo.

***** **END OF REPORT** *****