

Appendix D: Module YL7981, ANT2

Test Information:

Sample No.:	2U84-1	Test Date:	2024/12/27~2025/03/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Brian Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24~26.2	Relative Humidity: (%)	46~52	ATM Pressure: (kPa)	101
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Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	19.938
	5200	21.077
	5240	20.314
802.11ac20	5180	29.144
	5200	28.865
	5240	20.746
802.11ac40	5190	49.449
	5230	41.241
802.11ac80	5210	103.252
802.11ax20_RU_Full	5180	24.703
	5200	28.923
	5240	19.970
802.11ax40_RU_Full	5190	48.148
	5230	39.840
802.11ax80_RU_Full	5210	94.494

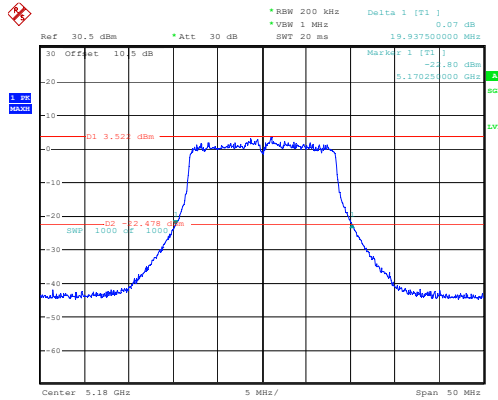
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.567	0.5	Pass
	5785	16.517	0.5	Pass
	5825	16.517	0.5	Pass
802.11ac20	5745	17.417	0.5	Pass
	5785	17.417	0.5	Pass
	5825	17.618	0.5	Pass
802.11ac40	5755	35.335	0.5	Pass
	5795	35.335	0.5	Pass
802.11ac80	5775	75.676	0.5	Pass
802.11ax20_RU_Full	5745	18.769	0.5	Pass
	5785	19.019	0.5	Pass
	5825	18.819	0.5	Pass
802.11ax40_RU_Full	5755	37.237	0.5	Pass
	5795	36.436	0.5	Pass
802.11ax80_RU_Full	5775	75.676	0.5	Pass

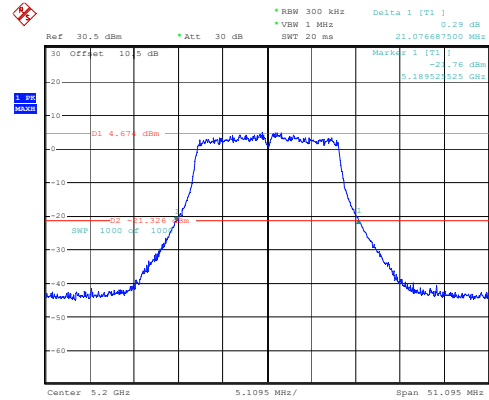
5150-5250MHz

802.11a_5180MHz



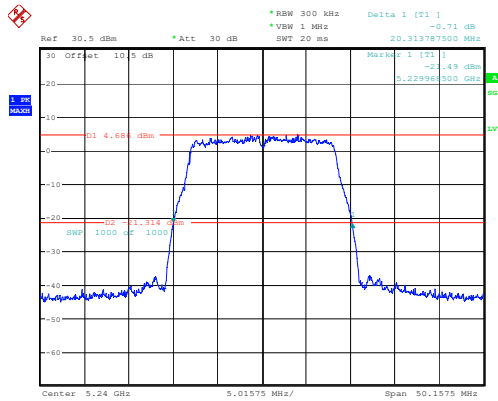
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Date: 27.DEC.2024 00:18:02

802.11a_5200MHz



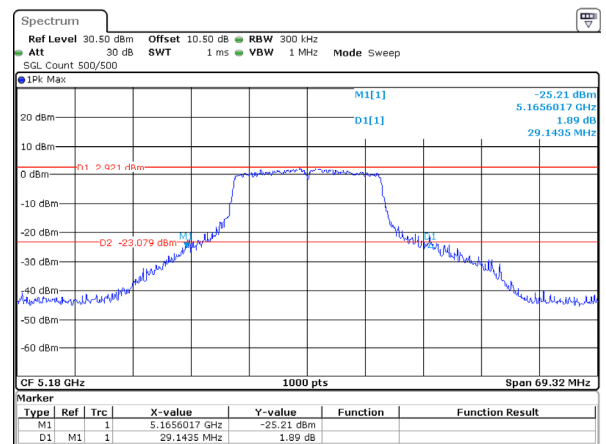
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802.11a_5240MHz



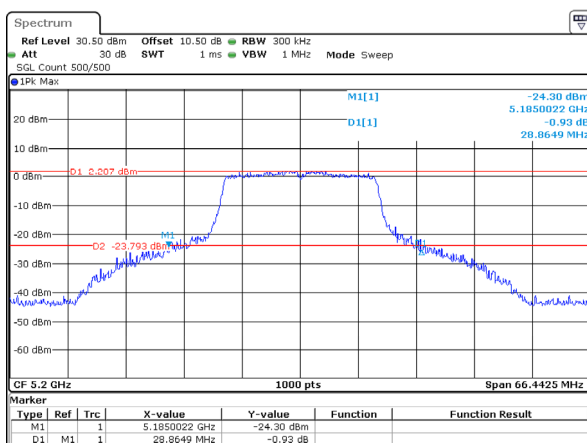
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802.11ac20_5180MHz



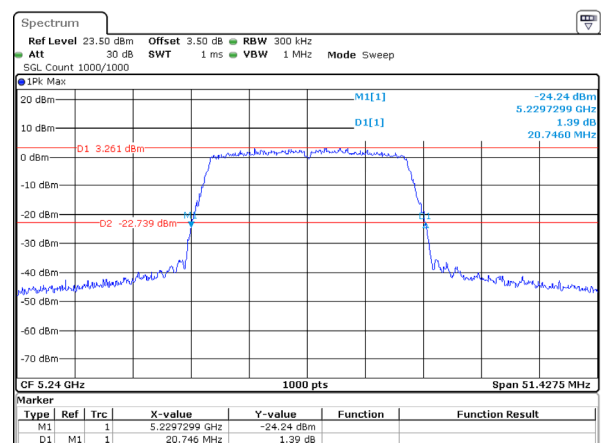
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802.11ac20_5200MHz



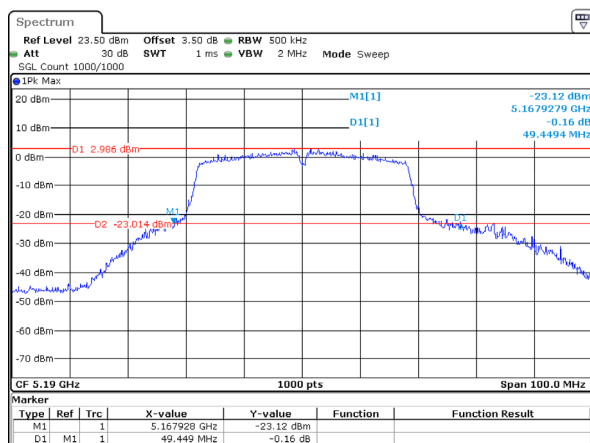
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802.11ac20_5240MHz



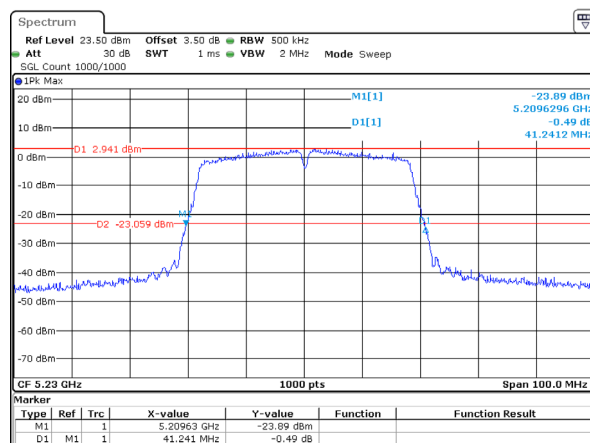
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Date: 30.DEC.2024 22:53:46

802.11ac40_5190MHz



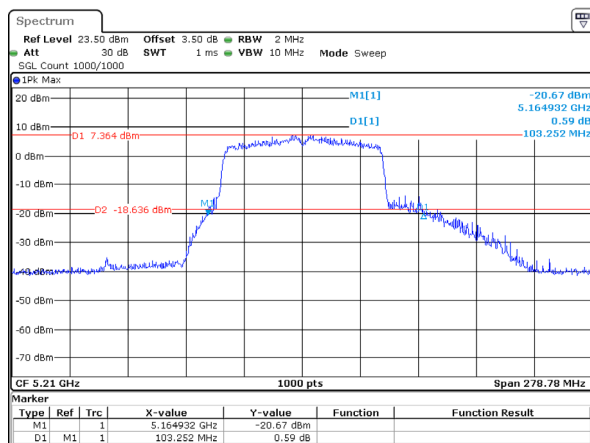
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802.11ac40_5230MHz



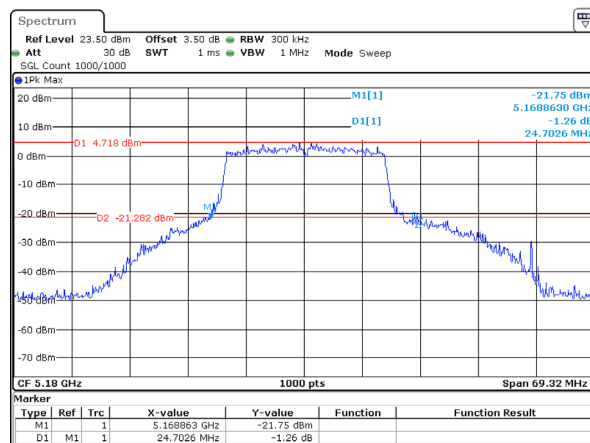
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Date: 30.DEC.2024 23:02:35

802.11ac80_5210MHz



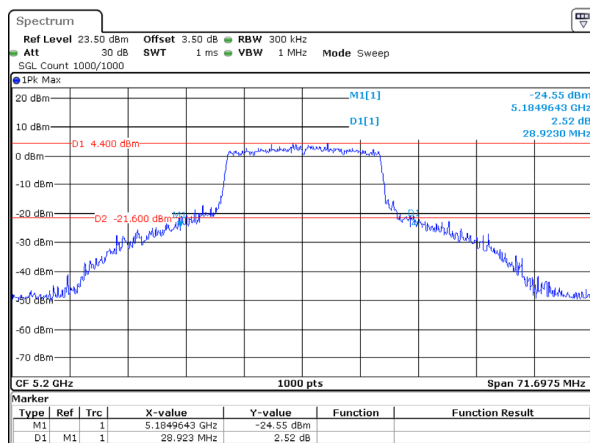
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802.11ax20_5180MHz_RU_Full



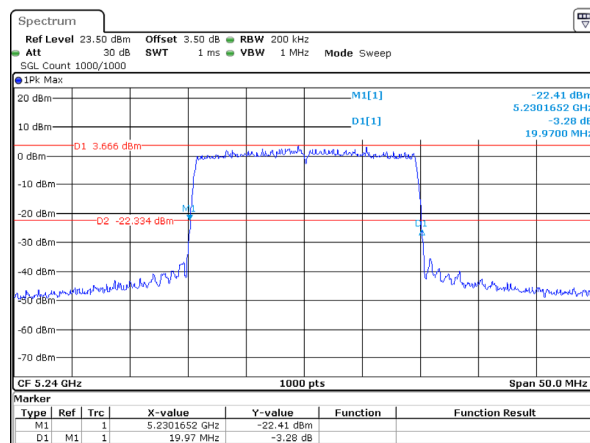
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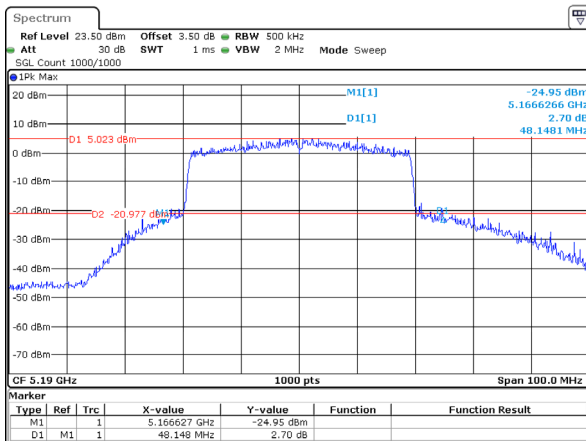
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802.11ax20_5240MHz_RU_Full



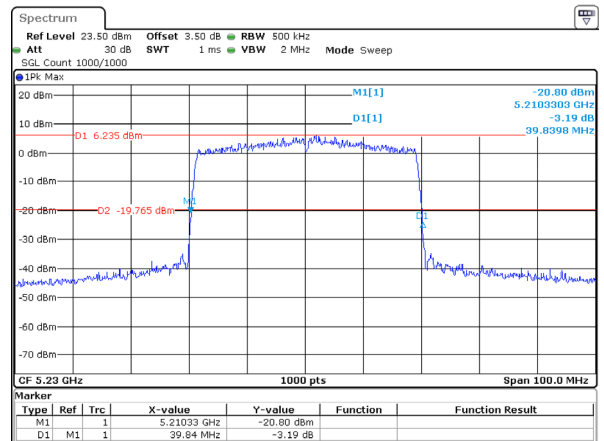
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Date: 30.DEC.2024 23:19:43

802.11ax40_5190MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 30.DEC.2024 23:23:19

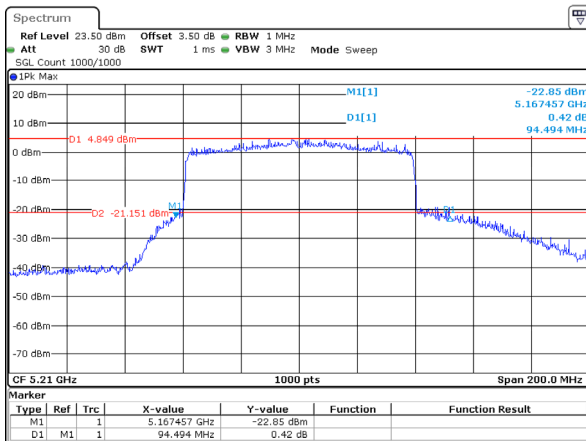
802.11ax40_5230MHz_RU_Full



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Date: 30.DEC.2024 23:28:34

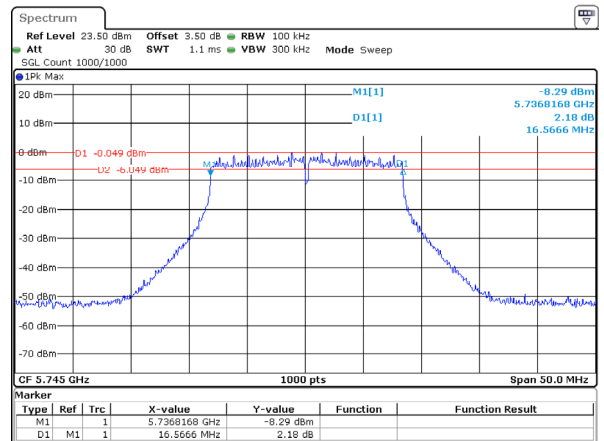
5725-5850MHz

802.11ax80_5210MHz_RU_Full



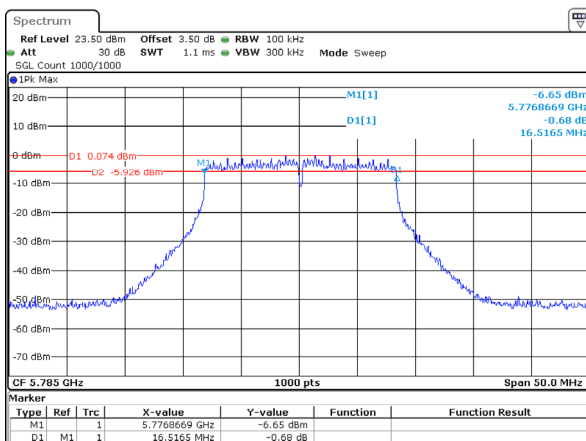
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Date: 30.DEC.2024 23:32:08

802.11a_5745MHz



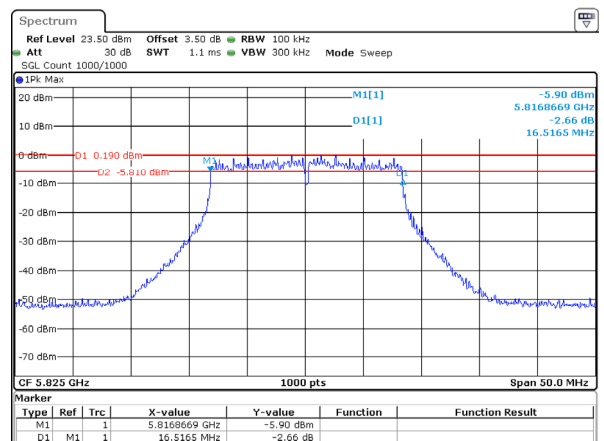
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Date: 30.DEC.2024 23:36:54

802.11a_5785MHz



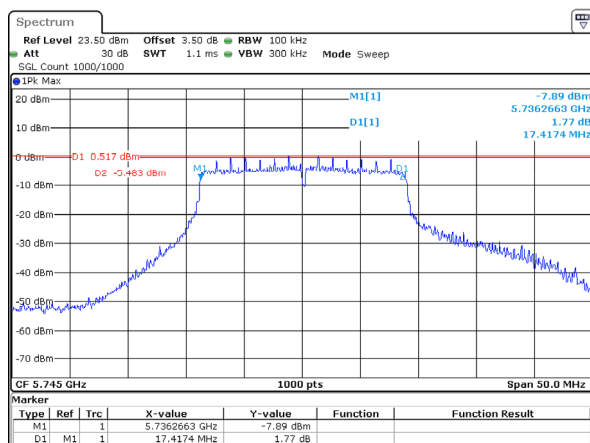
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802.11a_5825MHz



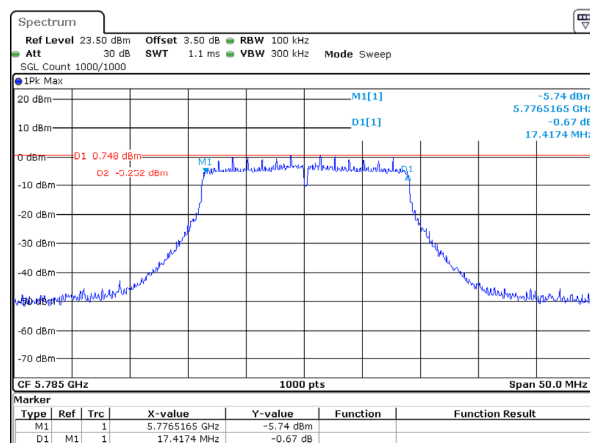
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802.11ac20_5745MHz



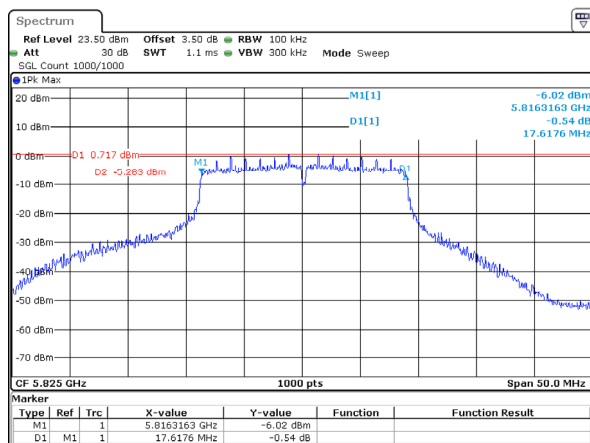
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802.11ac20_5785MHz



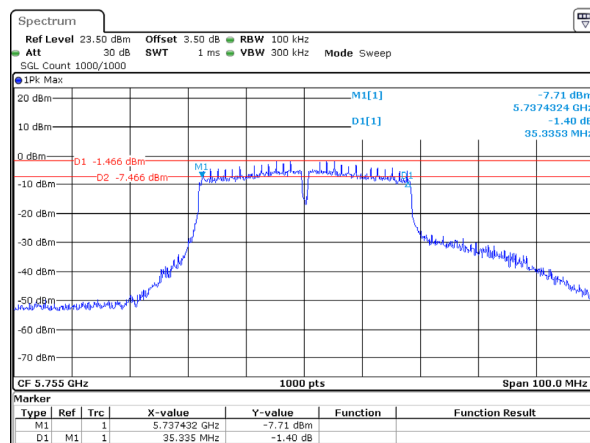
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802.11ac20_5825MHz



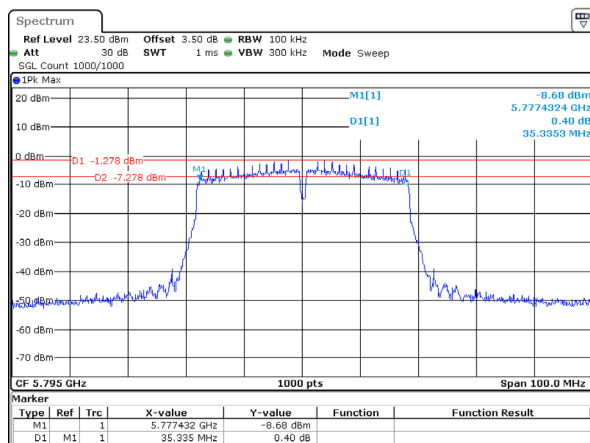
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802.11ac40_5755MHz



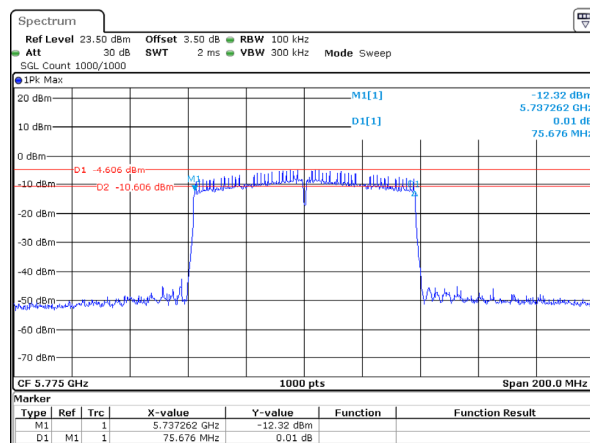
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802.11ac40_5795MHz



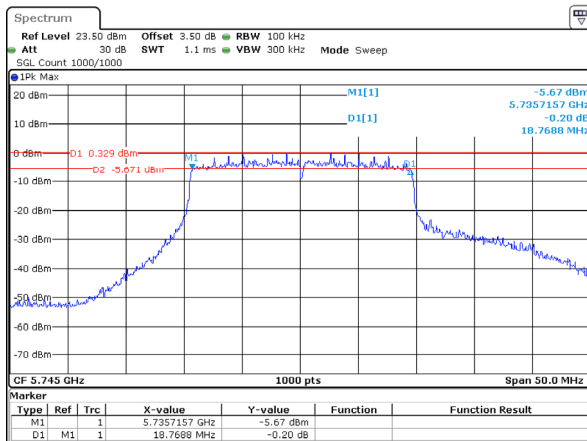
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802.11ac80_5775MHz



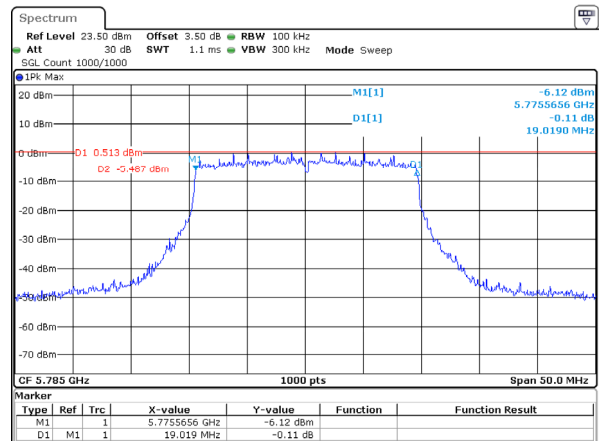
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802.11ax20_5745MHz_RU_Full



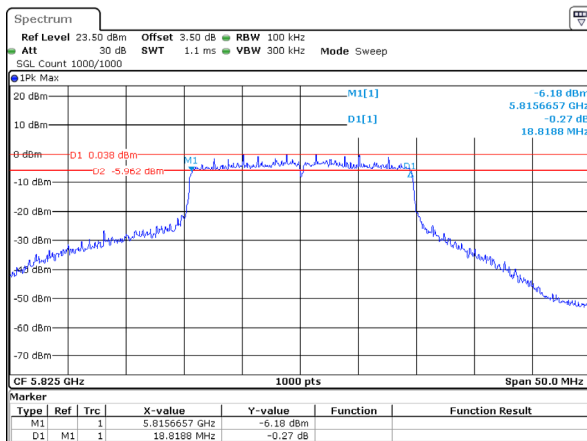
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802.11ax20_5785MHz_RU_Full



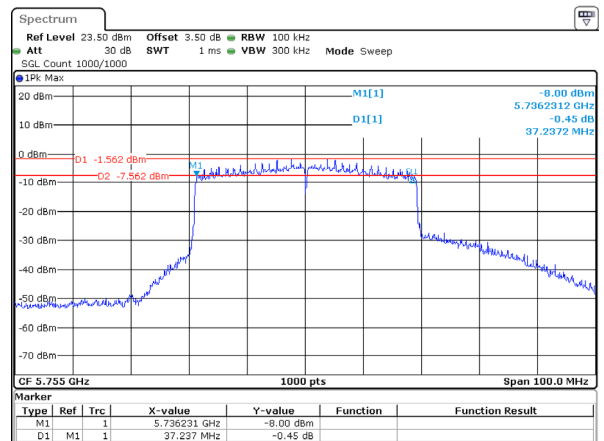
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802.11ax20_5825MHz_RU_Full



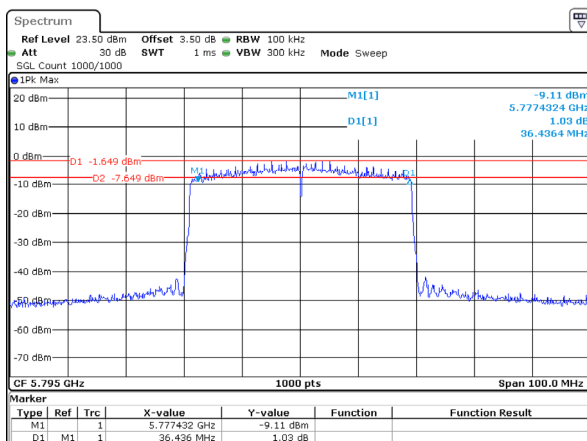
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802.11ax40_5755MHz_RU_Full



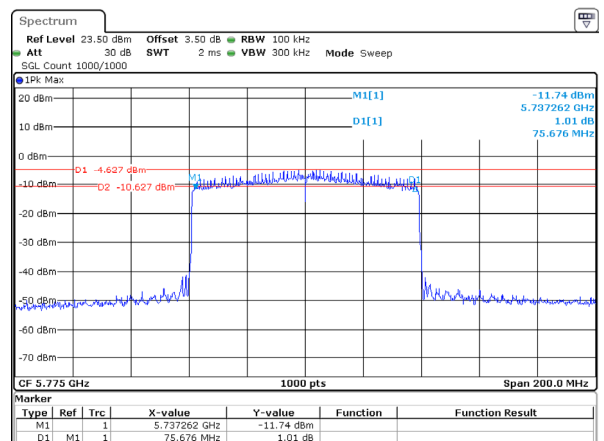
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802.11ax40_5795MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 31.DEC.2024 00:17:02

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 31.DEC.2024 00:18:36

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.500
	5200	16.563
	5240	16.625
802.11ac20	5180	18.063
	5200	17.950
	5240	17.700
802.11ac40	5190	36.500
	5230	36.200
802.11ac80	5210	75.600
802.11ax20_RU_Full	5180	19.150
	5200	19.100
	5240	18.850
802.11ax40_RU_Full	5190	37.800
	5230	37.500
802.11ax80_RU_Full	5210	77.200

Note:

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

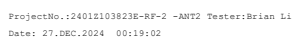
5725-5850MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.550
	5785	16.500
	5825	16.500
802.11ac20	5745	17.900
	5785	17.750
	5825	17.900
802.11ac40	5755	36.600
	5795	36.200
802.11ac80	5775	75.200
802.11ax20_RU_Full	5745	19.050
	5785	19
	5825	19.100
802.11ax40_RU_Full	5755	37.700
	5795	37.600
802.11ax80_RU_Full	5775	77

Note:

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

802.11a 5180MHz



ProjectNo.:24012103823E-RF-2 -ANT2 Tester:Brian Li
Date: 27.DEC.2024 00:21:47

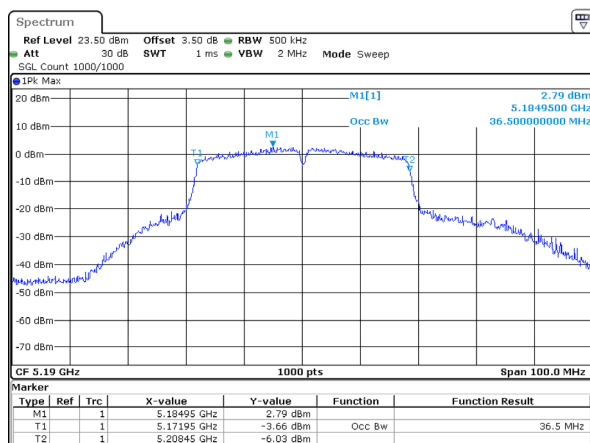
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ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
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ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 30.DEC.2024 22:46:41

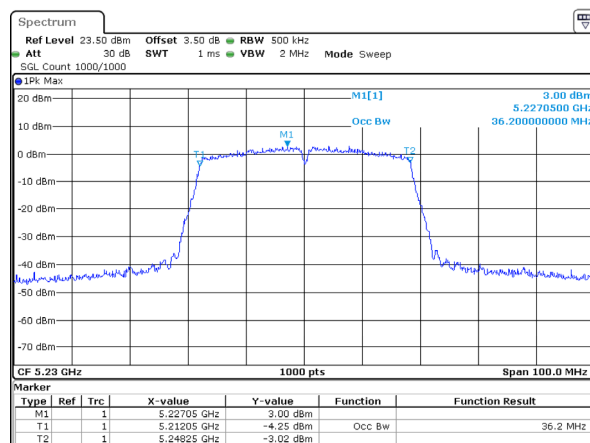
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802.11ac40_5190MHz



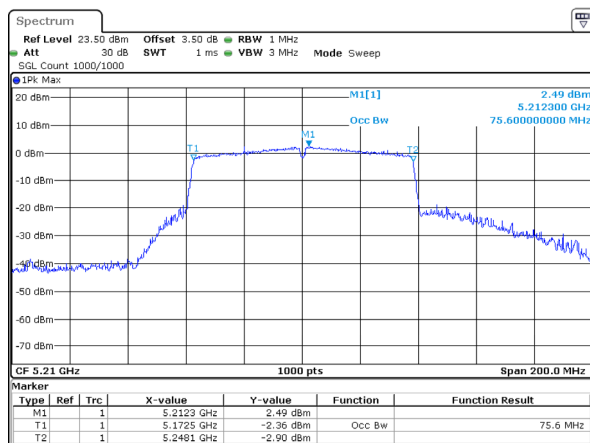
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802.11ac40_5230MHz



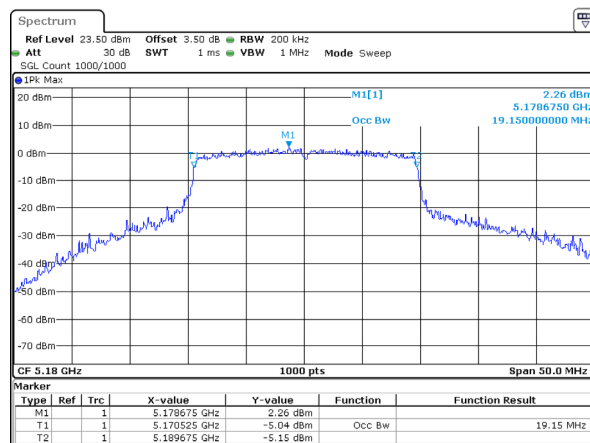
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802.11ac80_5210MHz



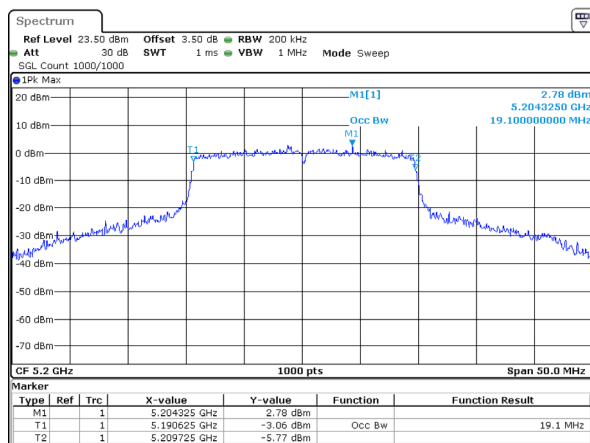
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802.11ax20_5180MHz_RU_Full



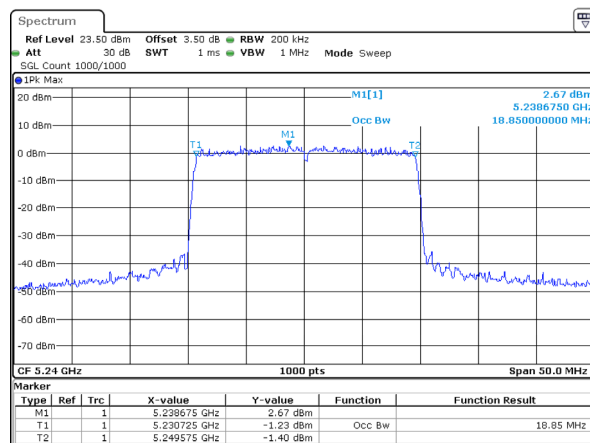
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802.11ax20_5200MHz_RU_Full



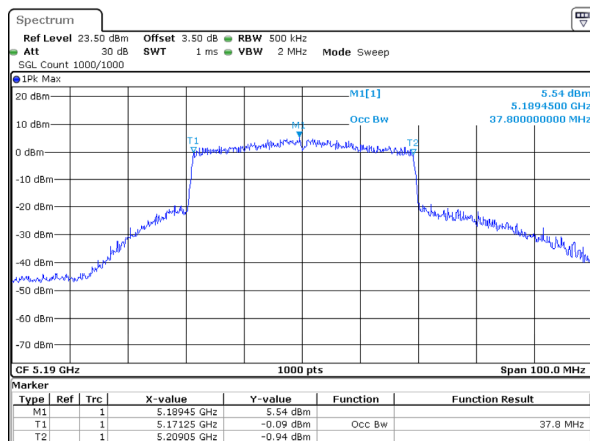
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802.11ax20_5240MHz_RU_Full



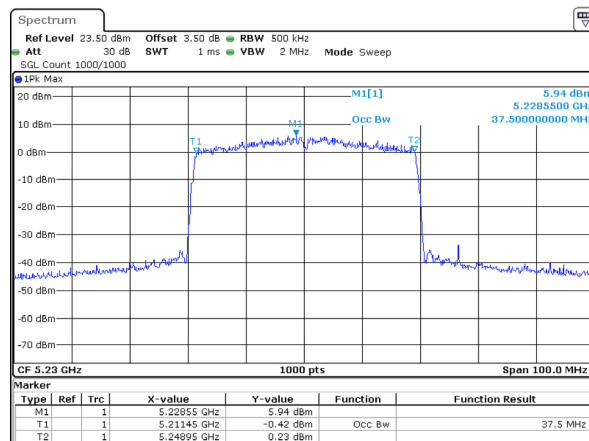
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Date: 30.DEC.2024 23:20:24

802.11ax40_5190MHz_RU_Full



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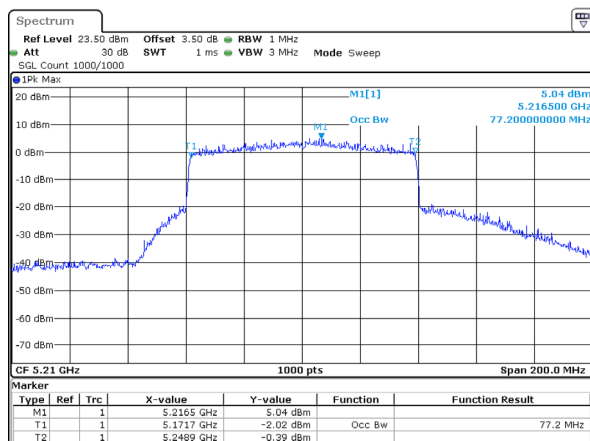
802.11ax40_5230MHz_RU_Full



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Date: 30.DEC.2024 23:29:00

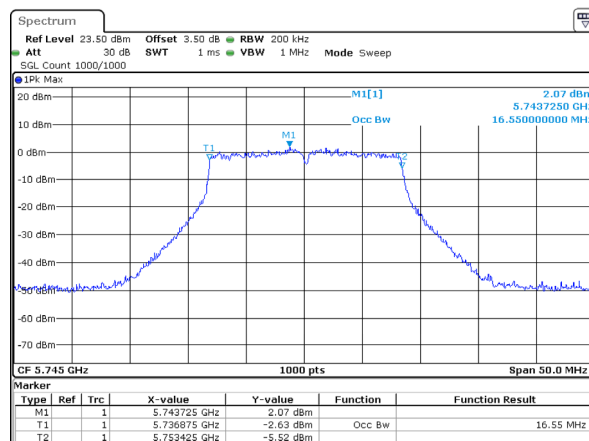
5725-5850MHz

802.11ax80_5210MHz_RU_Full



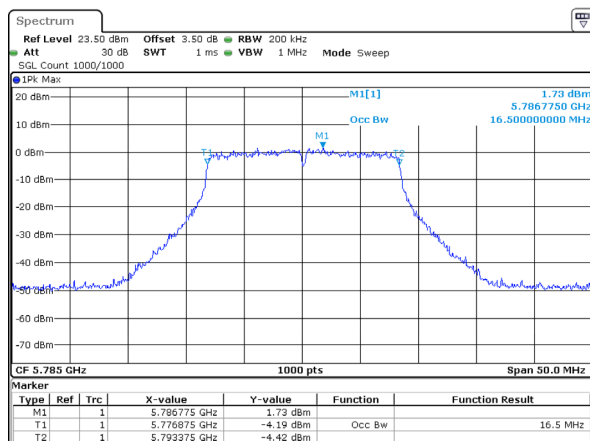
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802.11a_5745MHz



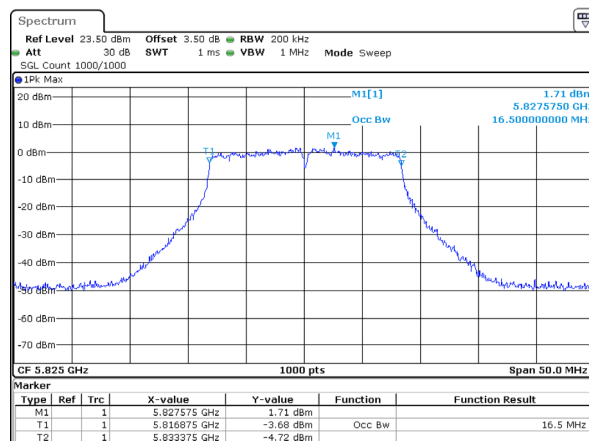
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Date: 30.DEC.2024 23:37:46

802.11a_5785MHz



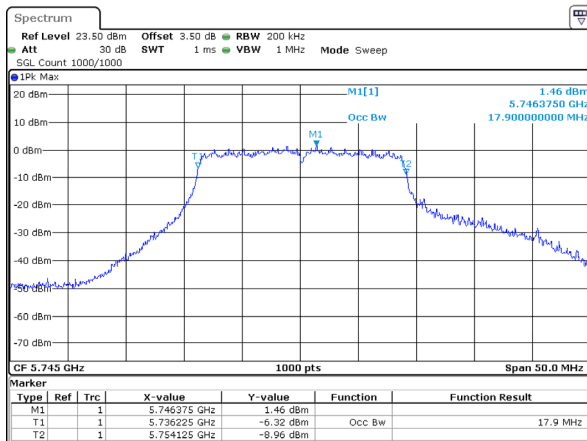
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Date: 30.DEC.2024 23:40:01

802.11a_5825MHz



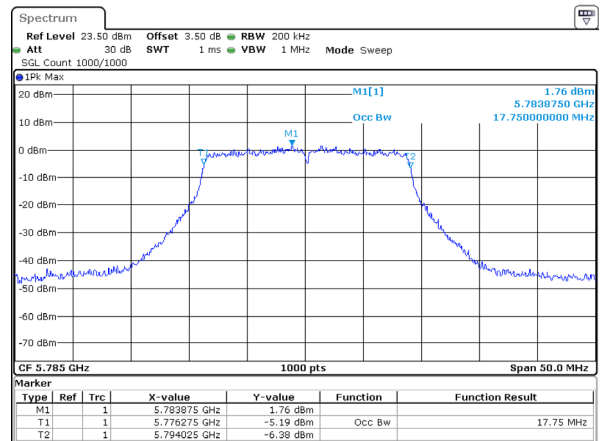
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Date: 30.DEC.2024 23:41:57

802.11ac20_5745MHz



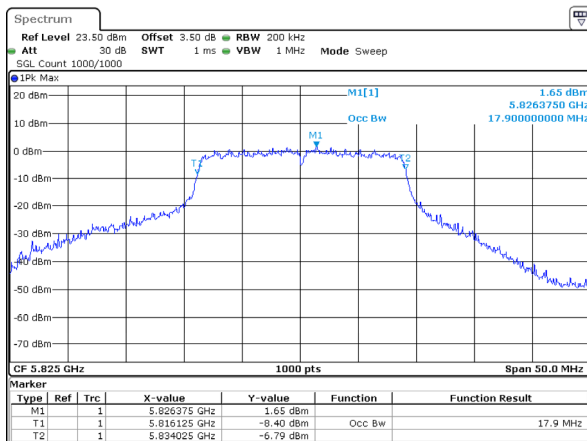
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802.11ac20_5785MHz



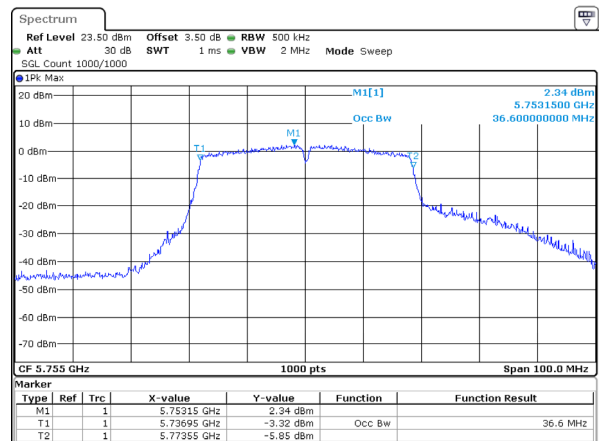
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Date: 30.DEC.2024 23:58:23

802.11ac20_5825MHz



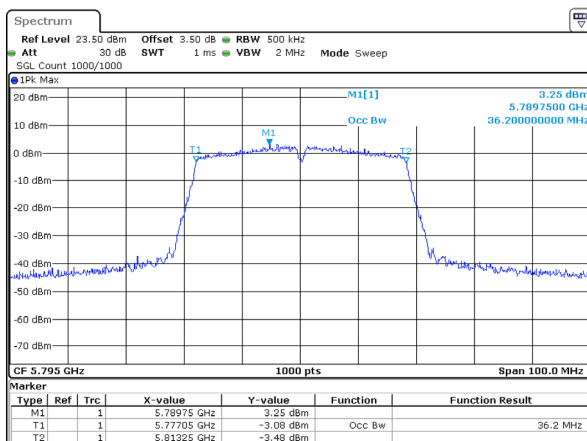
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Date: 31.DEC.2024 00:00:13

802.11ac40_5755MHz



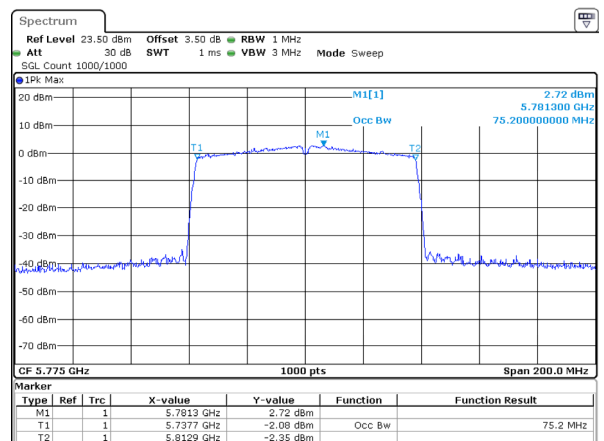
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Date: 31.DEC.2024 00:01:29

802.11ac40_5795MHz



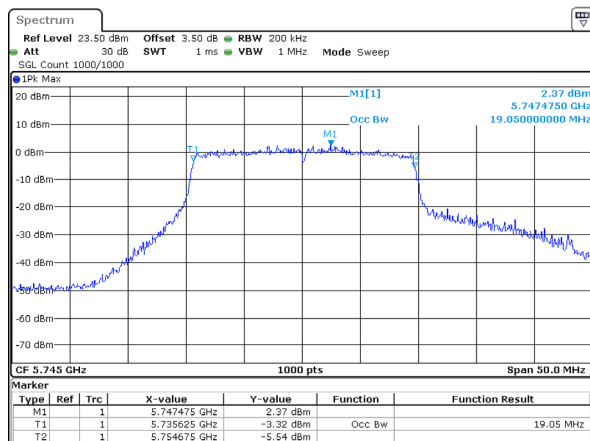
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Date: 31.DEC.2024 00:02:39

802.11ac80_5775MHz



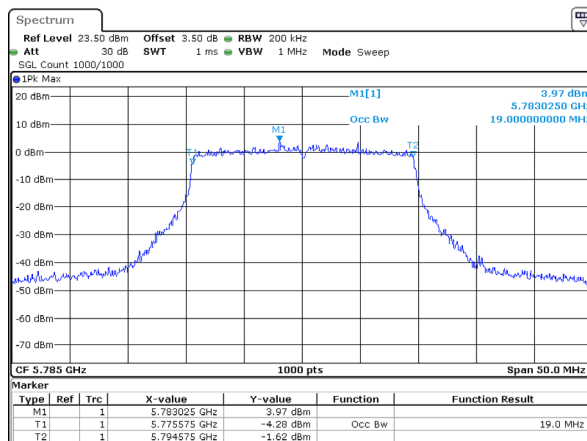
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Date: 31.DEC.2024 00:07:39

802.11ax20_5745MHz_RU_Full



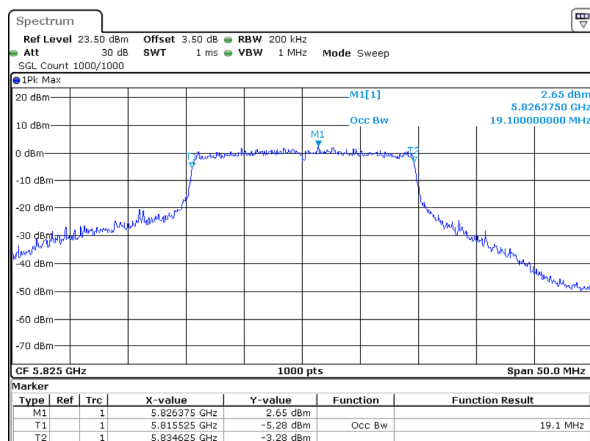
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Date: 31.DEC.2024 00:10:05

802.11ax20_5785MHz_RU_Full



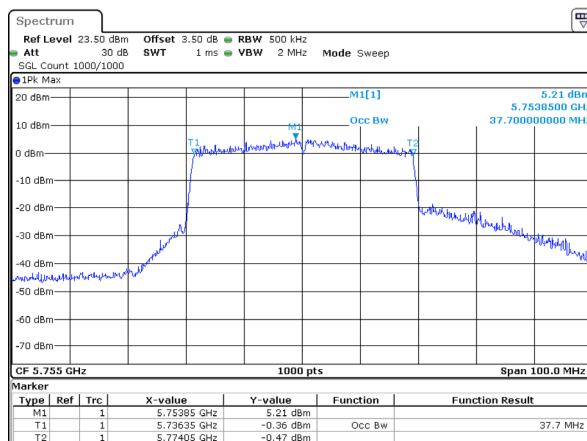
ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian LI
Date: 31.DEC.2024 00:13:09

802.11ax20_5825MHz_RU_Full



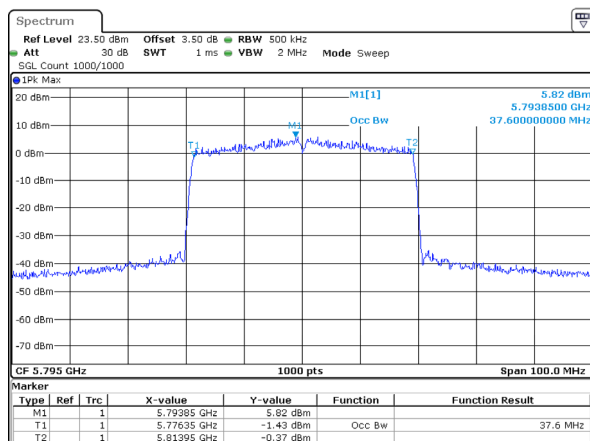
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Date: 31.DEC.2024 00:14:54

802.11ax40_5755MHz_RU_Full



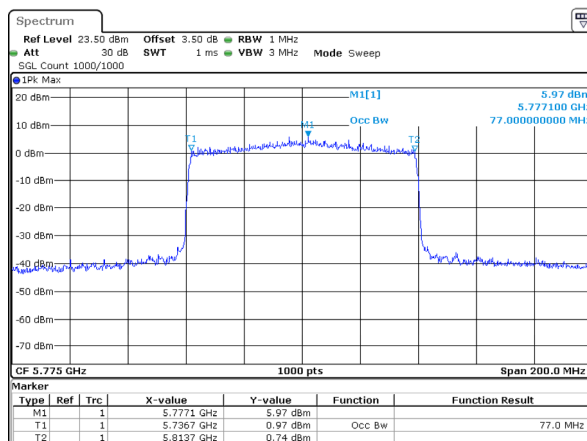
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Date: 31.DEC.2024 00:15:59

802.11ax40_5795MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian LI
Date: 31.DEC.2024 00:17:20

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian LI
Date: 31.DEC.2024 00:19:01

Maximum Conducted Output Power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	9.84	30	Pass
	5200	9.9	30	Pass
	5240	10.01	30	Pass
802.11ac20	5180	10.99	30	Pass
	5200	11.01	30	Pass
	5240	11.69	30	Pass
802.11ac40	5190	10.92	30	Pass
	5230	11.37	30	Pass
802.11ac80	5210	10.14	30	Pass
802.11ax20_RU_Full	5180	11.35	30	Pass
	5200	11.38	30	Pass
	5240	12.12	30	Pass
802.11ax40_RU_Full	5190	11.44	30	Pass
	5230	12.0	30	Pass
802.11ax80_RU_Full	5210	10.94	30	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	10.9	30	Pass
	5785	10.93	30	Pass
	5825	11.08	30	Pass
802.11ac20	5745	11.14	30	Pass
	5785	11.66	30	Pass
	5825	11.27	30	Pass
802.11ac40	5755	11.36	30	Pass
	5795	11.67	30	Pass
802.11ac80	5775	11.13	30	Pass
802.11ax20_RU_Full	5745	11.2	30	Pass
	5785	11.65	30	Pass
	5825	11.35	30	Pass
802.11ax40_RU_Full	5755	11.53	30	Pass
	5795	11.94	30	Pass
802.11ax80_RU_Full	5775	11.47	30	Pass

Power Spectral Density

5150-5250MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	-0.63	1.15	0.52	17	Pass
	5200	-0.59	1.15	0.56	17	Pass
	5240	-0.45	1.15	0.70	17	Pass
802.11ac20	5180	0.46	0.19	0.65	17	Pass
	5200	0.14	0.19	0.33	17	Pass
	5240	0.64	0.19	0.83	17	Pass
802.11ac40	5190	-2.38	0.36	-2.02	17	Pass
	5230	-1.67	0.36	-1.31	17	Pass
802.11ac80	5210	-5.91	0.74	-5.17	17	Pass
802.11ax20_RU_Full	5180	0.24	/	0.24	17	Pass
	5200	0.42	/	0.42	17	Pass
	5240	0.89	/	0.89	17	Pass
802.11ax40_RU_Full	5190	-1.98	0.13	-1.85	17	Pass
	5230	-0.88	0.13	-0.75	17	Pass
802.11ax80_RU_Full	5210	-5.40	0.29	-5.11	17	Pass

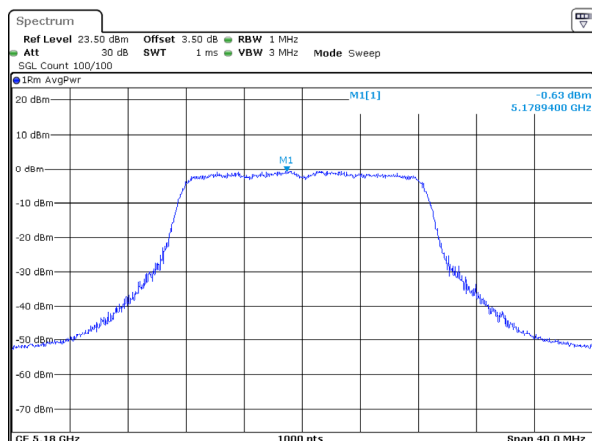
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-3.08	1.15	-1.93	30	Pass
	5785	-3.18	1.15	-2.03	30	Pass
	5825	-3.13	1.15	-1.98	30	Pass
802.11ac20	5745	-2.51	0.19	-2.32	30	Pass
	5785	-2.19	0.19	-2.00	30	Pass
	5825	-2.57	0.19	-2.38	30	Pass
802.11ac40	5755	-4.91	0.36	-4.55	30	Pass
	5795	-4.50	0.36	-4.14	30	Pass
802.11ac80	5775	-8.39	0.74	-7.65	30	Pass
802.11ax20_RU_Full	5745	-2.50	/	-2.50	30	Pass
	5785	-1.90	/	-1.90	30	Pass
	5825	-2.61	/	-2.61	30	Pass
802.11ax40_RU_Full	5755	-4.63	0.13	-4.50	30	Pass
	5795	-4.09	0.13	-3.96	30	Pass
802.11ax80_RU_Full	5775	-7.74	0.29	-7.45	30	Pass

Result = Reading + Duty Cycle Factor

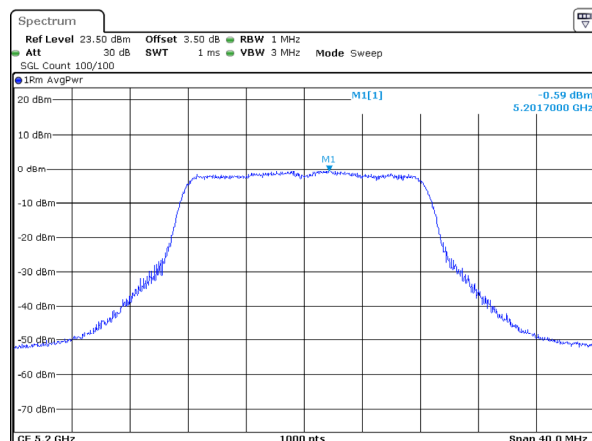
5150-5250MHz

802.11a_5180MHz



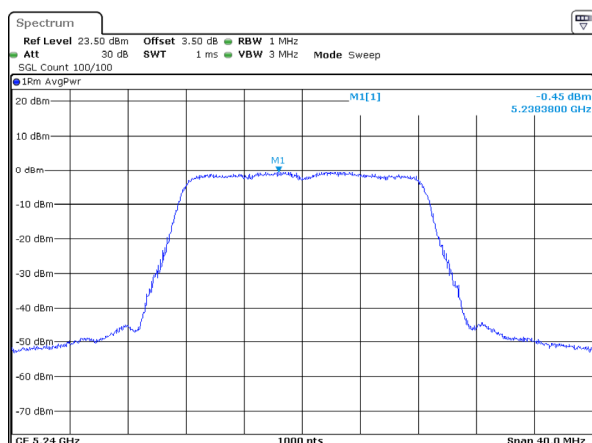
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Date: 30.DEC.2024 22:34:12

802.11a_5200MHz



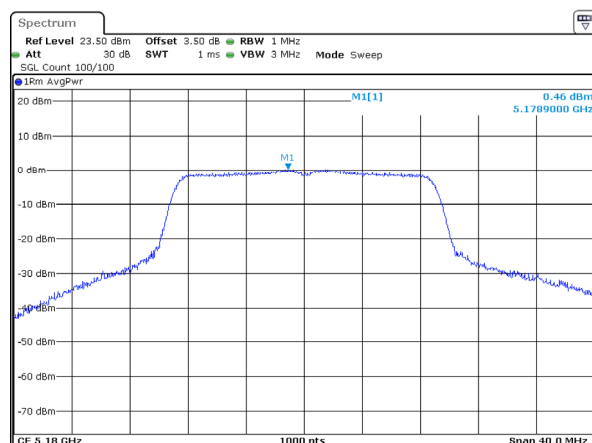
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802.11a_5240MHz



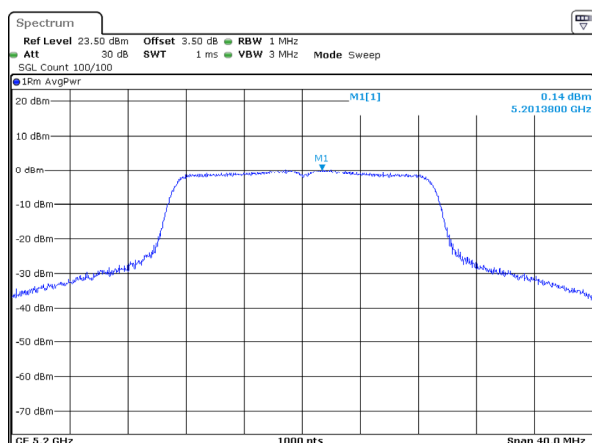
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802.11ac20_5180MHz



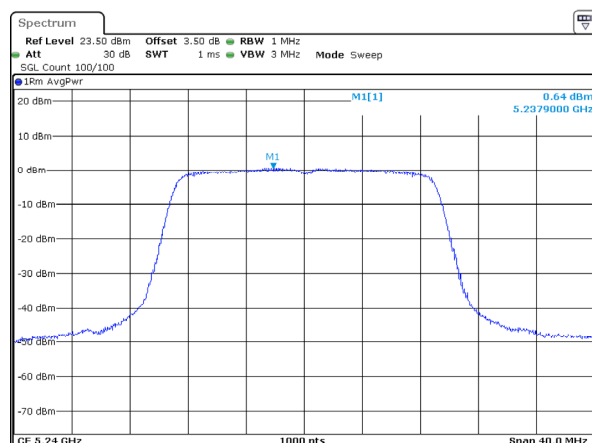
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Date: 30.DEC.2024 22:43:53

802.11ac20_5200MHz



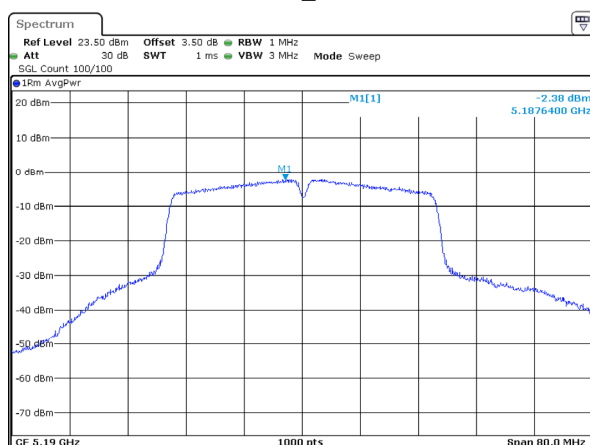
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802.11ac20_5240MHz



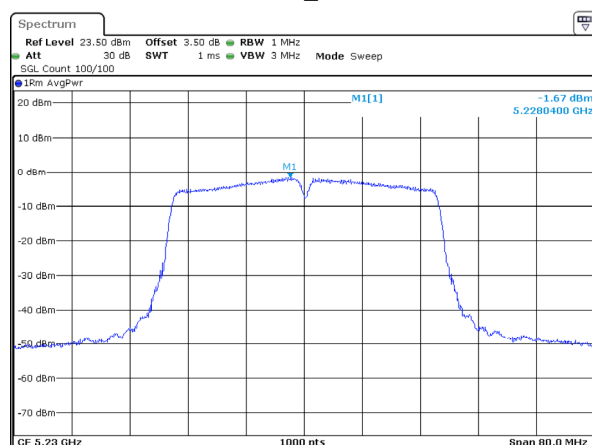
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802.11ac40_5190MHz



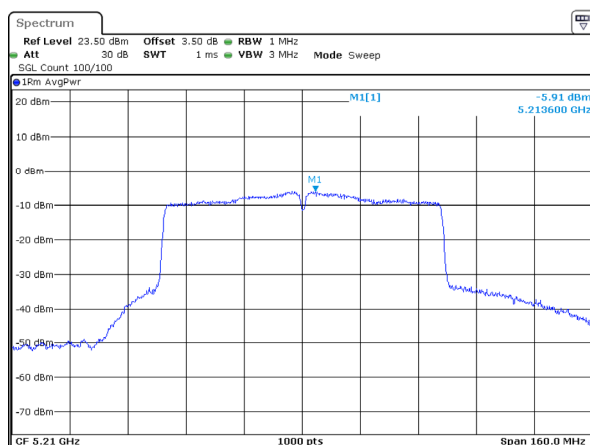
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802.11ac40_5230MHz



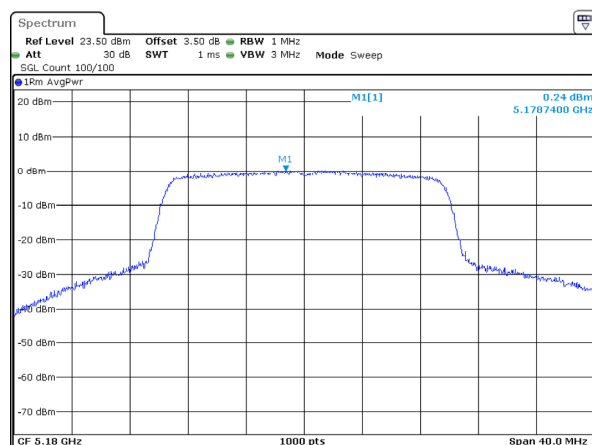
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Date: 30.DEC.2024 23:03:17

802.11ac80_5210MHz



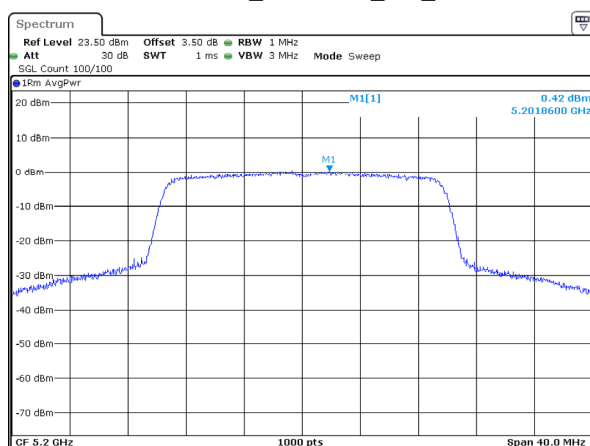
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802.11ax20_5180MHz_RU_Full



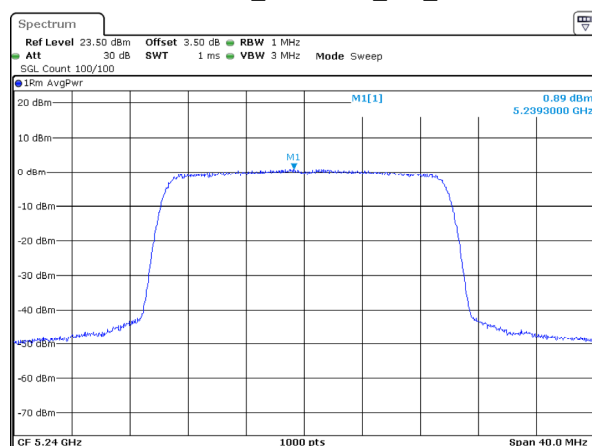
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802.11ax20_5200MHz_RU_Full



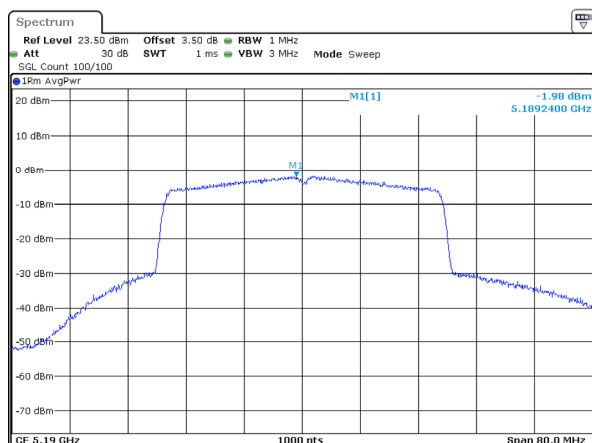
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802.11ax20_5240MHz_RU_Full



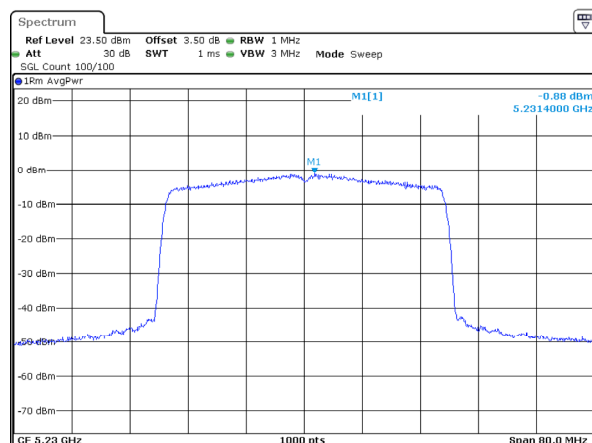
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802.11ax40_5190MHz_RU_Full



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Date: 30.DEC.2024 23:24:03

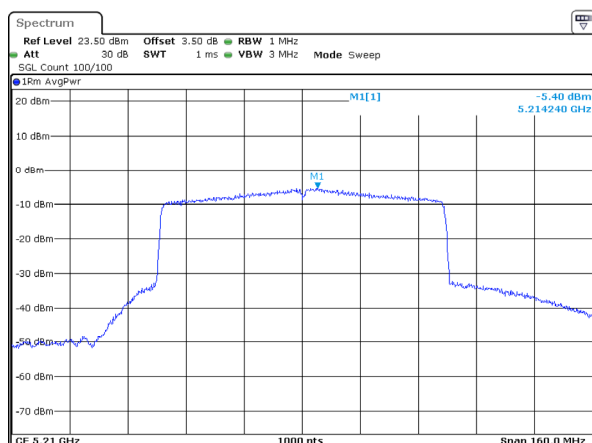
802.11ax40_5230MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 30.DEC.2024 23:29:19

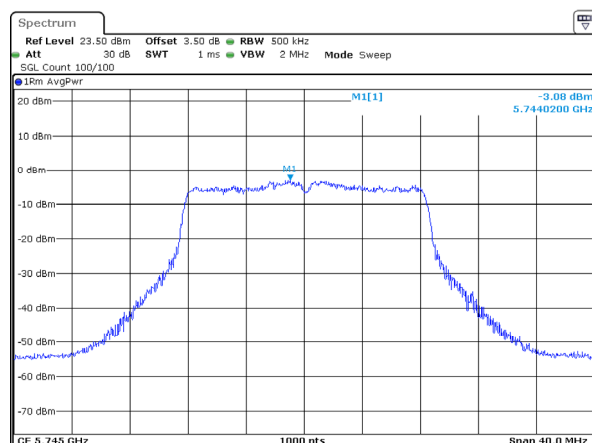
5725-5850MHz

802.11ax80_5210MHz_RU_Full



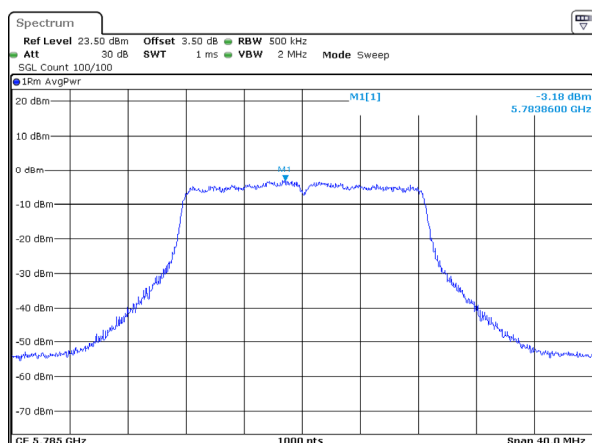
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802.11a_5745MHz



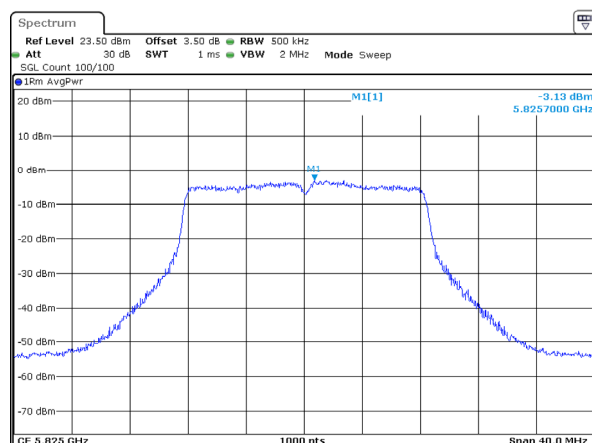
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802.11a_5785MHz



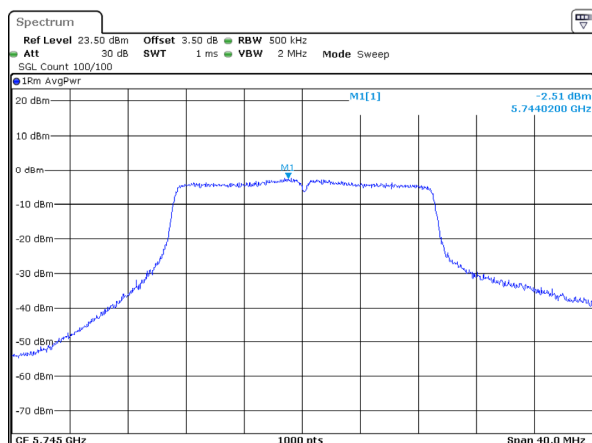
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802.11a_5825MHz

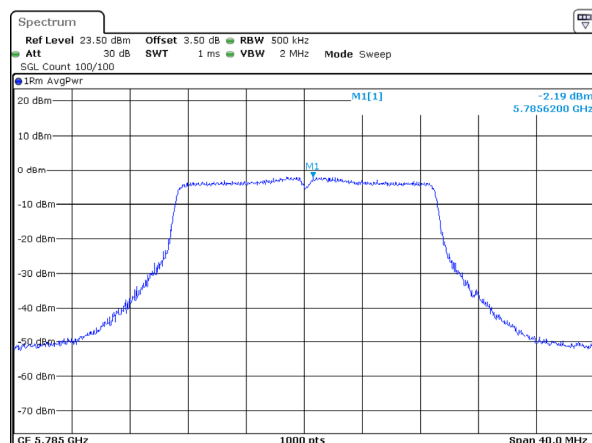


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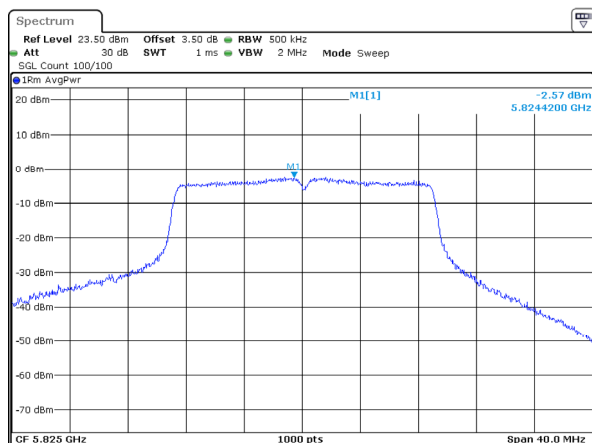
802.11ac20_5745MHz



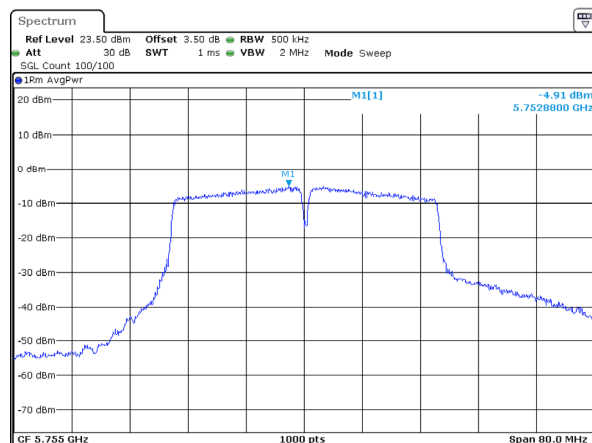
802.11ac20_5785MHz



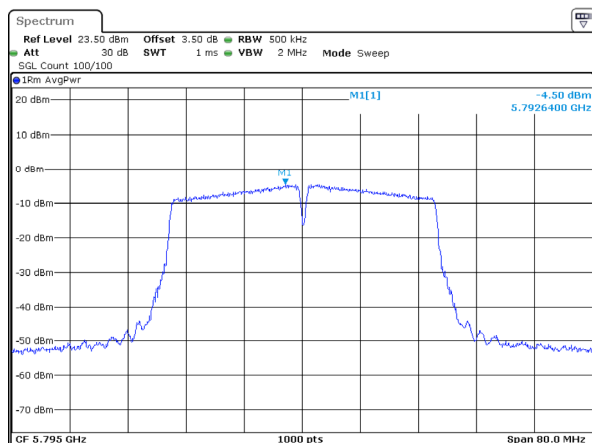
802.11ac20_5825MHz



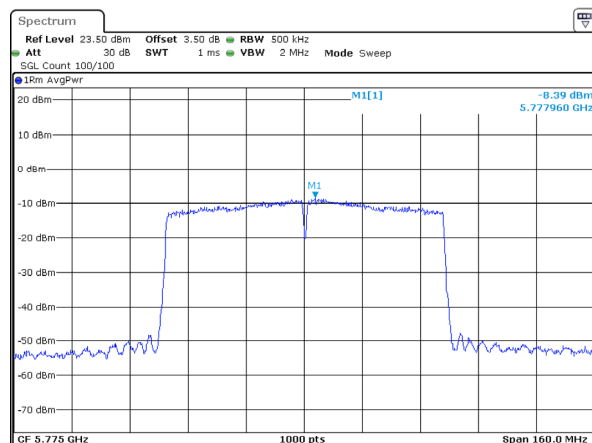
802.11ac40_5755MHz



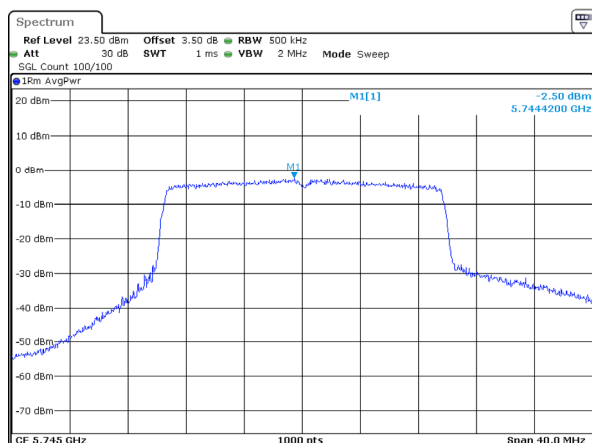
802.11ac40_5795MHz



802.11ac80_5775MHz

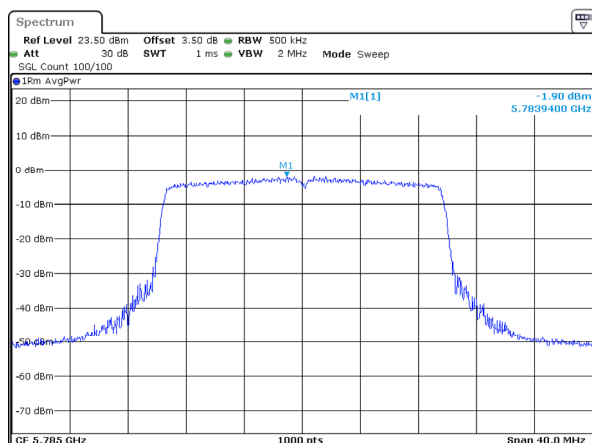


802.11ax20_5745MHz_RU_Full



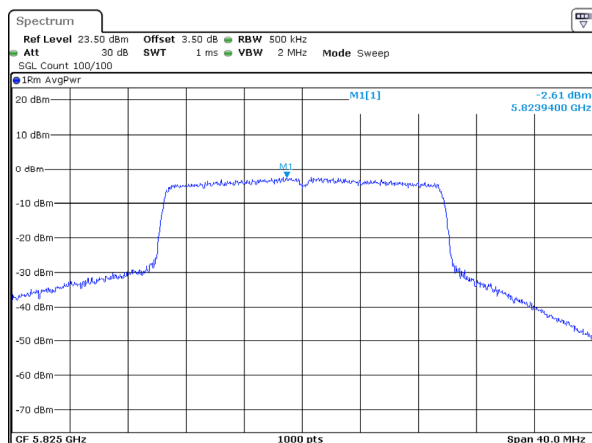
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802.11ax20_5785MHz_RU_Full



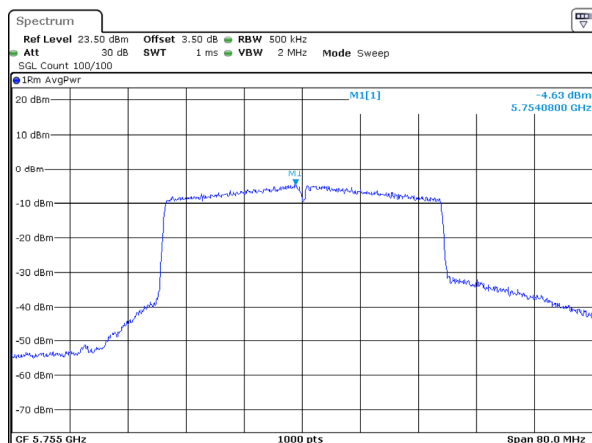
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802.11ax20_5825MHz_RU_Full



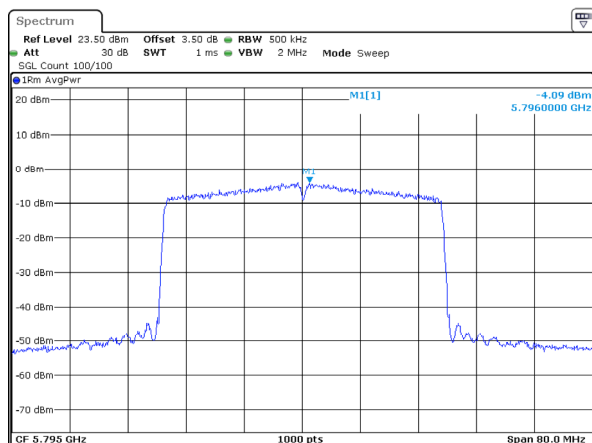
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802.11ax40_5755MHz_RU_Full



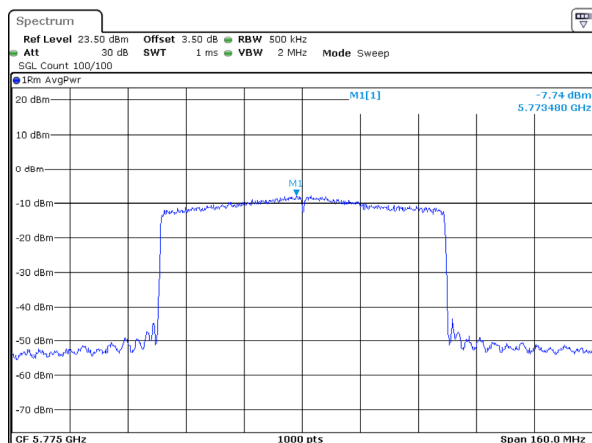
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802.11ax40_5795MHz_RU_Full



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Date: 31.DEC.2024 00:17:34

802.11ax80_5775MHz_RU_Full



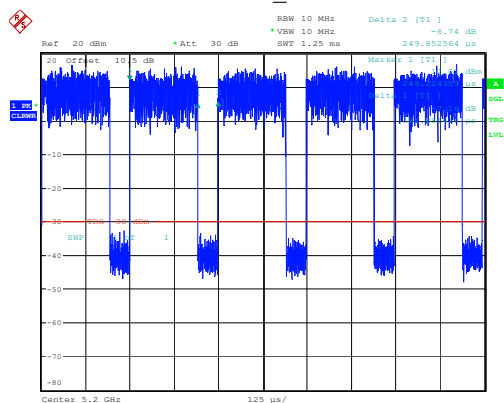
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Date: 31.DEC.2024 00:19:18

Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	0.192	0.250	76.80	1.15	5208	10
802.11ac20	5200	1.319	1.378	95.72	0.19	758	1
802.11ac40	5190	0.656	0.713	92.01	0.36	1524	2
802.11ac80	5210	0.321	0.381	84.25	0.74	3115	5
802.11ax20_RU_Full	5200	3.893	3.952	98.51	/	/	0.010
802.11ax40_RU_Full	5190	1.973	2.032	97.10	0.13	507	1
802.11ax80_RU_Full	5210	0.968	1.035	93.53	0.29	1033	2

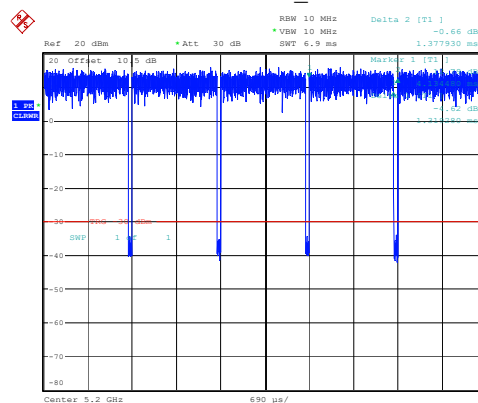
Duty Cycle = Ton/(Ton+Toff)*100%

802.11a_5200MHz



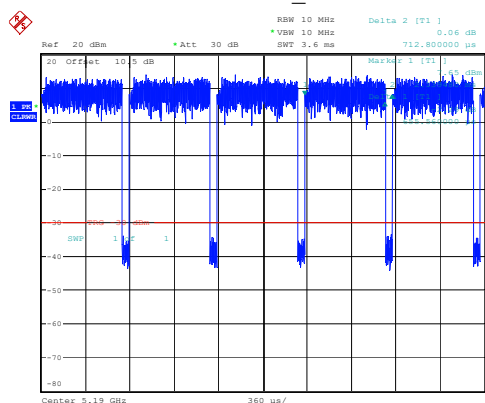
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Date: 27.DEC.2024 00:04:22

802.11ac20_5200MHz



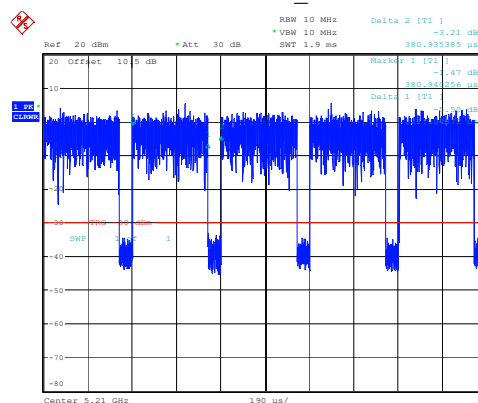
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Date: 27.DEC.2024 00:05:41

802.11ac40_5190MHz



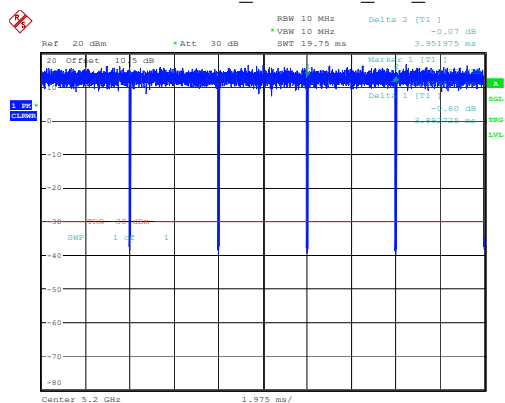
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802.11ac80_5210MHz



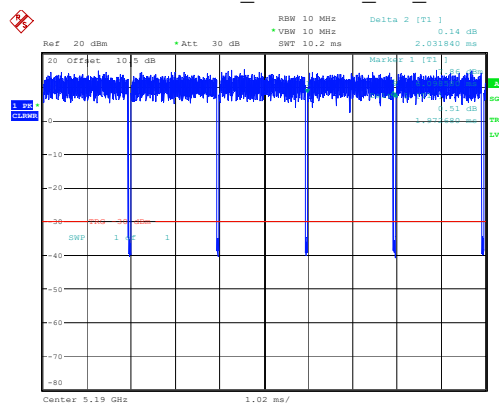
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802.11ax20 5200MHz RU Full



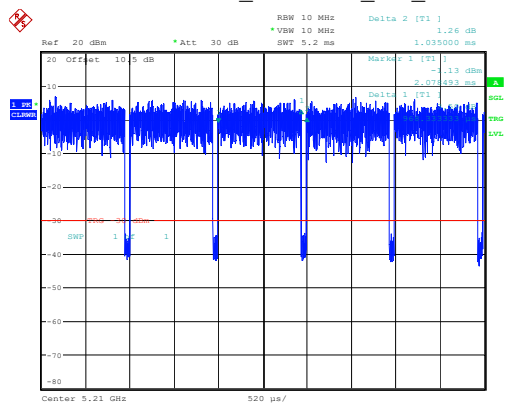
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802.11ax40 5190MHz RU Full



ProjectNo.:24012103823E-RF-2 -ANT2 Tester:Brian Li
Date: 27.DEC.2024 00:08:37

802.11ax80 5210MHz RU Full



ProjectNo.:2401Z103823E-RF-2 -ANT2 Tester:Brian Li
Date: 27.DEC.2024 00:09:27