

Appendix B2-Module YL43752 ANT2 5G Wi-Fi

Test Information:

Sample No.:	2VNH-6	Test Date:	2025/05/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5	Relative Humidity: (%)	51	ATM Pressure: (kPa)	100.4
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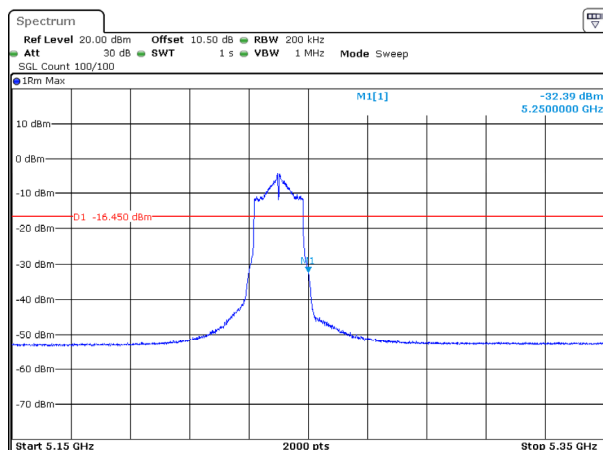
26dB attenuated below the channel power

5150-5250MHz

Mode	Test Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11a	5240	-32.39	-16.45	Pass
802.11ac20	5240	-30.75	-16.60	Pass
802.11ac40	5230	-37.99	-17.23	Pass
802.11ac80	5210	-36.12	-17.28	Pass
802.11ax20_RU_Full	5240	-30.49	-15.53	Pass
802.11ax40_RU_Full	5230	-37.61	-16.65	Pass
802.11ax80_RU_Full	5210	-30.25	-17.63	Pass

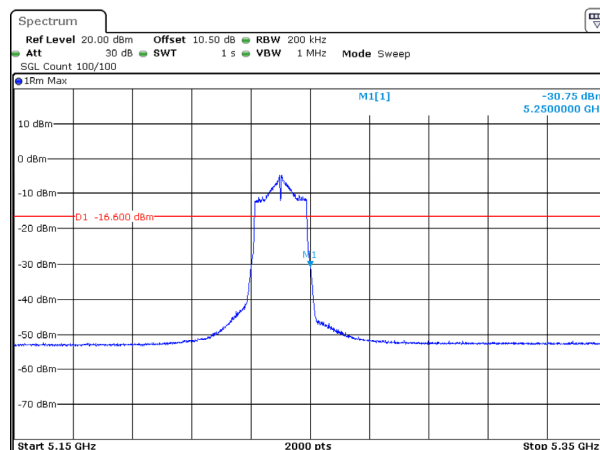
5150-5250MHz

802.11a_5240MHz



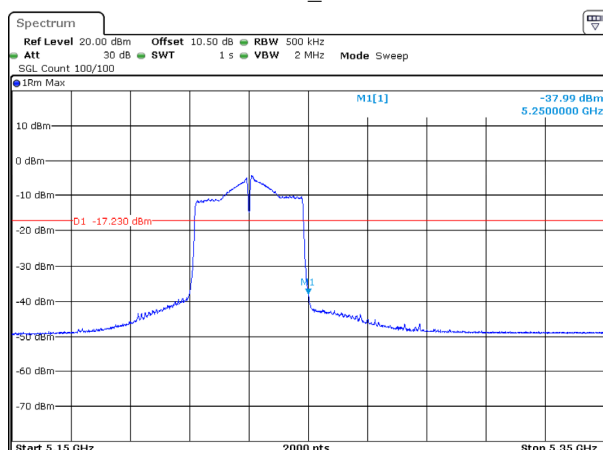
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Date: 24.MAY.2025 14:24:11

802.11ac20_5240MHz



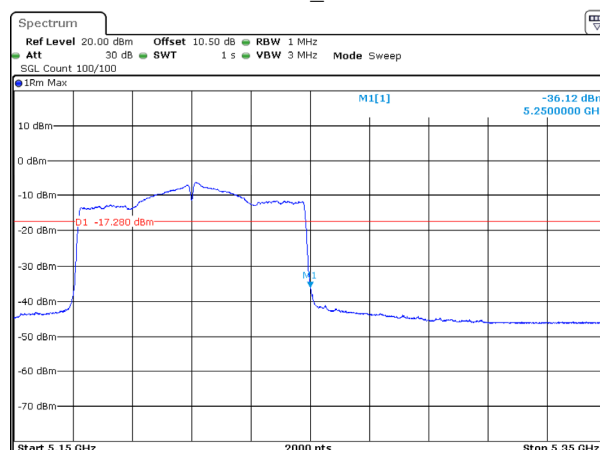
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Date: 24.MAY.2025 14:28:31

802.11ac40_5230MHz



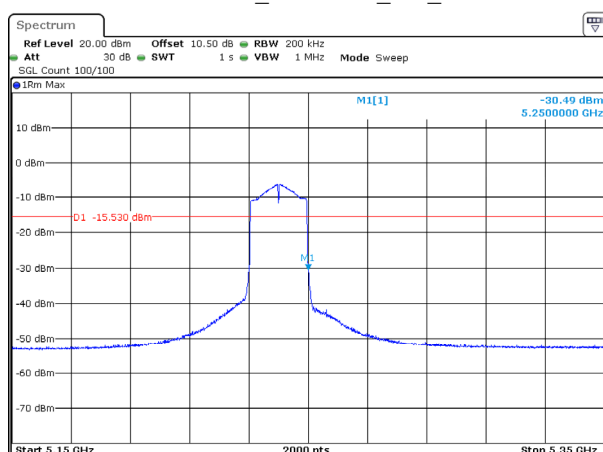
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Date: 24.MAY.2025 14:32:20

802.11ac80_5210MHz



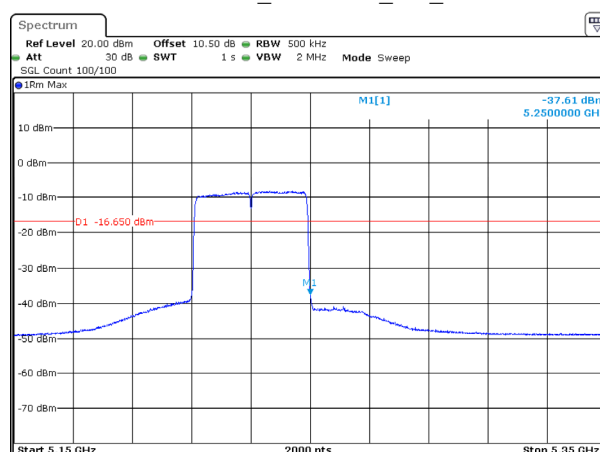
ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaster Liang
Date: 24.MAY.2025 14:36:09

802.11ax20_5240MHz_RU_Full



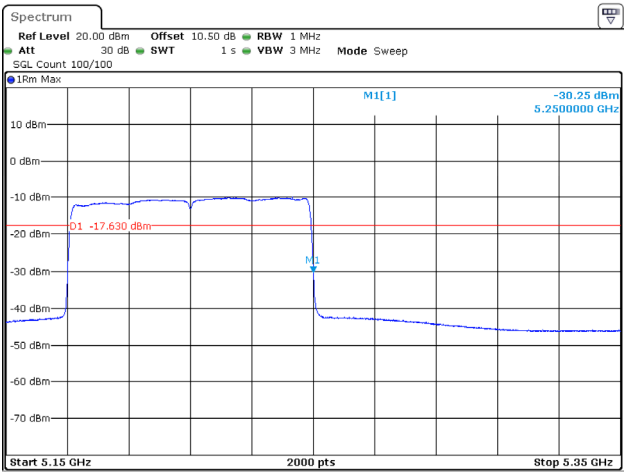
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Date: 24.MAY.2025 14:53:11

802.11ax40_5230MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaster Liang
Date: 24.MAY.2025 15:04:08

802.11ax80_5210MHz_RU_Full



ProjectNo.: 2401A63093E-RF-2-ANT2 Tester: Kungfumaster Liang
Date: 24.MAY.2025 15:07:41

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	21.099
	5200	21.253
	5240	21.202
802.11ac20	5180	21.413
	5200	21.466
	5240	21.399
802.11ac40	5190	40.040
	5230	40.040
802.11ac80	5210	81.281
802.11ax20_RU_Full	5180	21.580
	5200	21.556
	5240	23.049
802.11ax40_RU_Full	5190	40.741
	5230	40.440
802.11ax80_RU_Full	5210	82.282

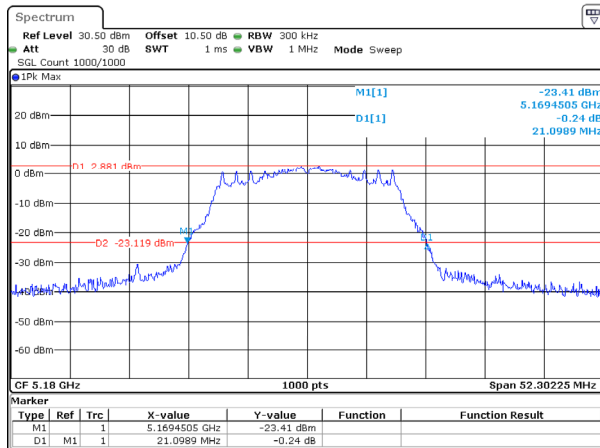
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	15.265	0.5	Pass
	5785	15.215	0.5	Pass
	5825	15.265	0.5	Pass
802.11ac20	5745	15.265	0.5	Pass
	5785	15.265	0.5	Pass
	5825	15.265	0.5	Pass
802.11ac40	5755	35.335	0.5	Pass
	5795	35.435	0.5	Pass
802.11ac80	5775	75.676	0.5	Pass
802.11ax20_RU_Full	5745	18.569	0.5	Pass
	5785	18.569	0.5	Pass
	5825	18.368	0.5	Pass
802.11ax40_RU_Full	5755	37.938	0.5	Pass
	5795	37.738	0.5	Pass
802.11ax80_RU_Full	5775	77.678	0.5	Pass

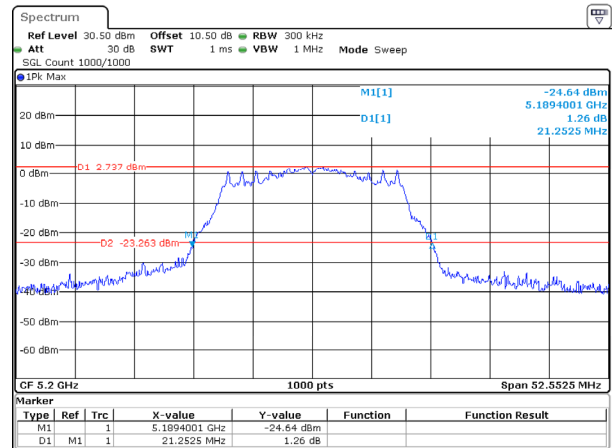
5150-5250MHz

802.11a_5180MHz



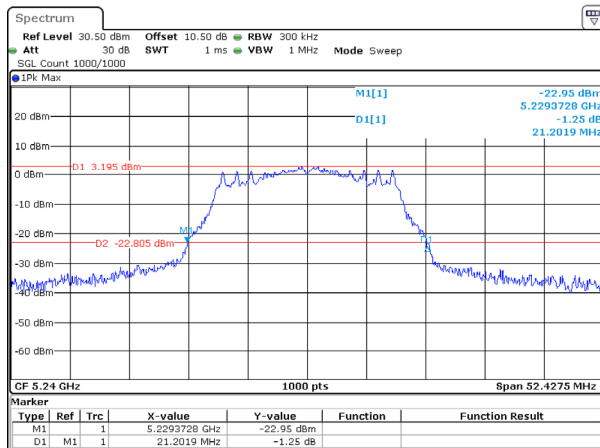
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802.11a_5200MHz



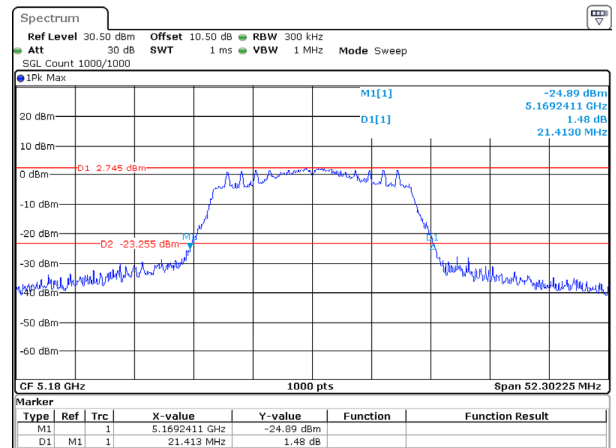
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802.11a_5240MHz



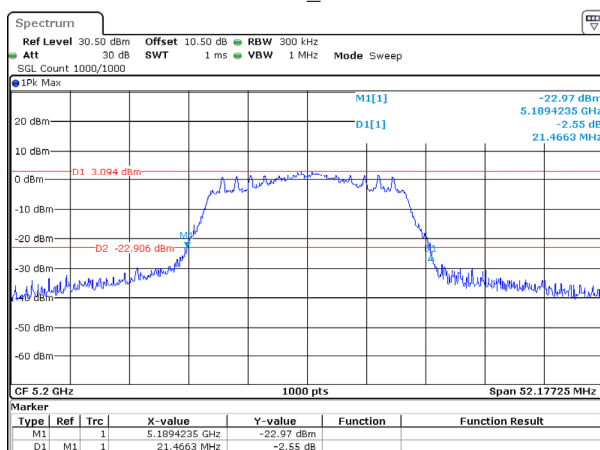
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802.11ac20_5180MHz



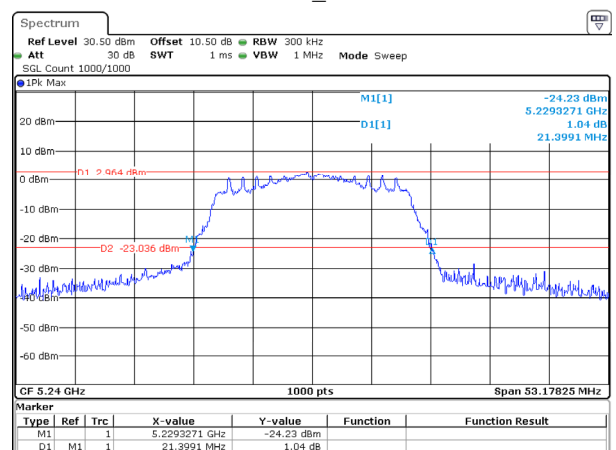
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802.11ac20_5200MHz



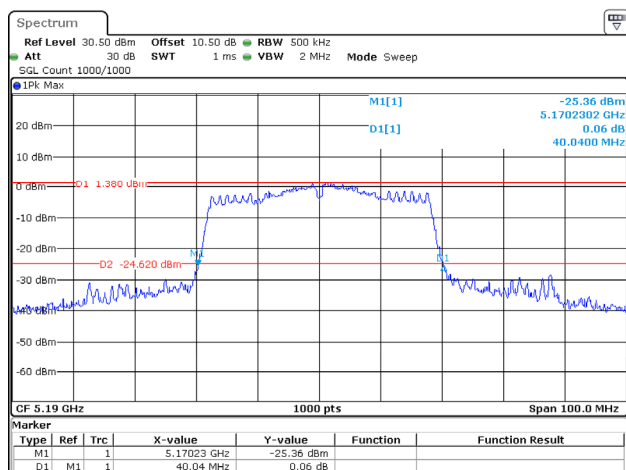
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802.11ac20_5240MHz



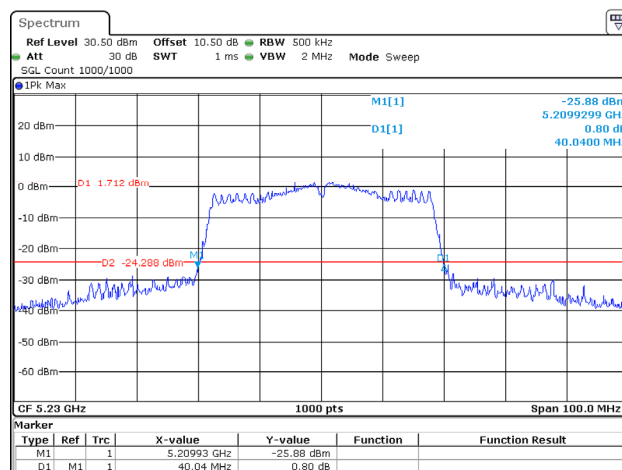
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802.11ac40_5190MHz



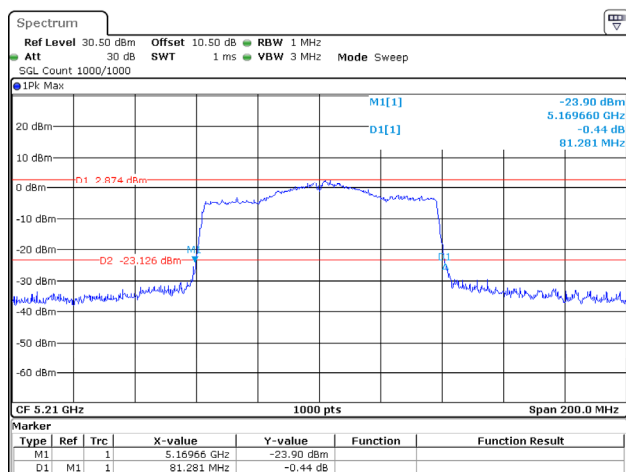
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Date: 24.MAY.2025 15:17:58

802.11ac40_5230MHz



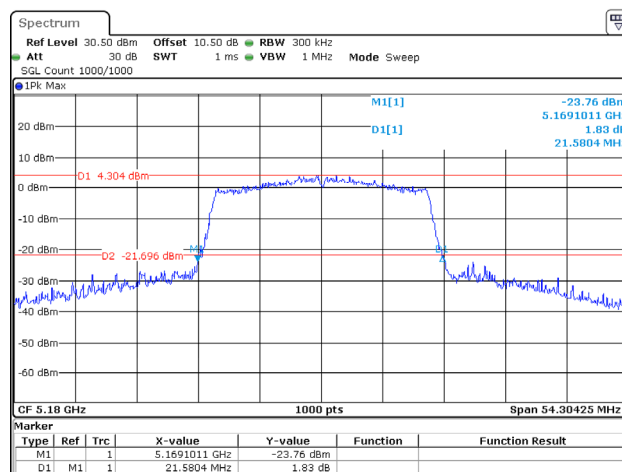
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802.11ac80_5210MHz



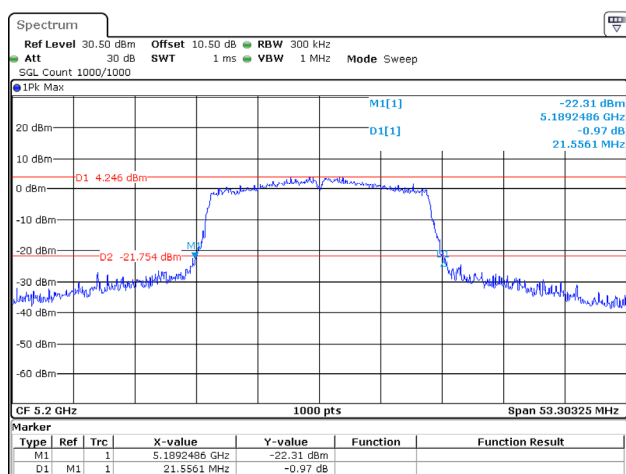
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802.11ax20_5180MHz_RU_Full



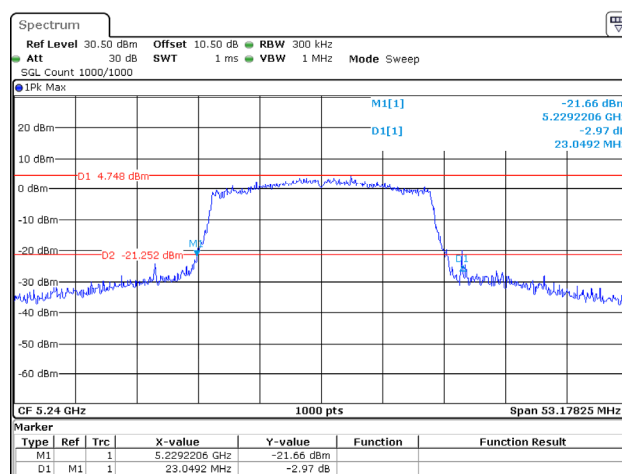
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802.11ax20_5200MHz_RU_Full



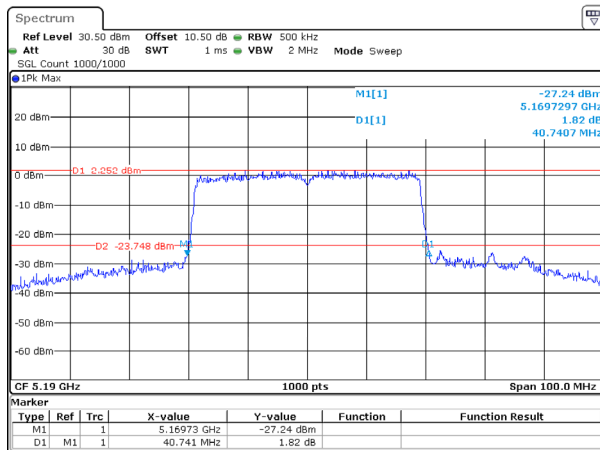
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802.11ax20_5240MHz_RU_Full



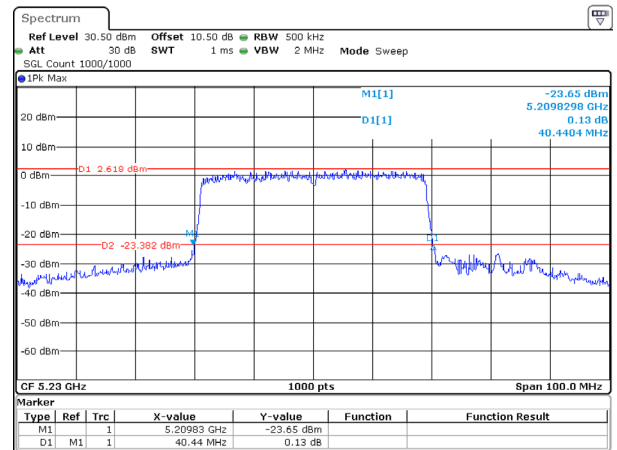
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802.11ax40_5190MHz_RU_Full



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Date: 24.MAY.2025 15:23:45

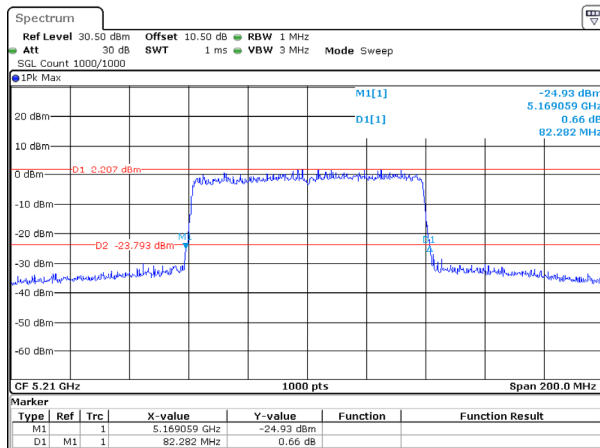
802.11ax40_5230MHz_RU_Full



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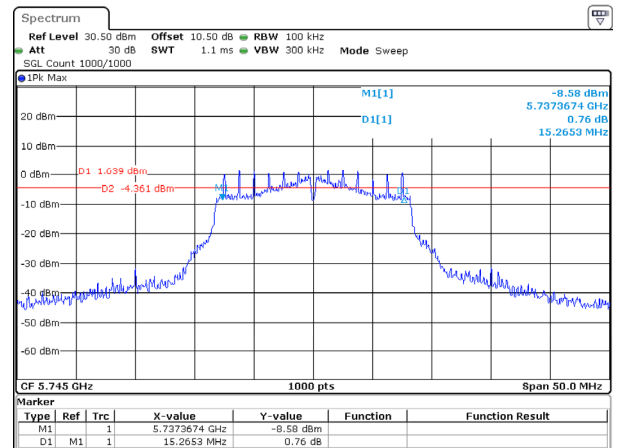
5725-5850MHz

802.11ax80_5210MHz_RU_Full



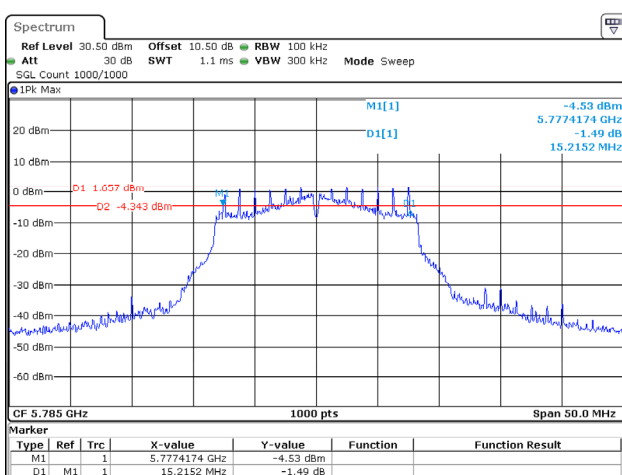
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802.11a_5745MHz



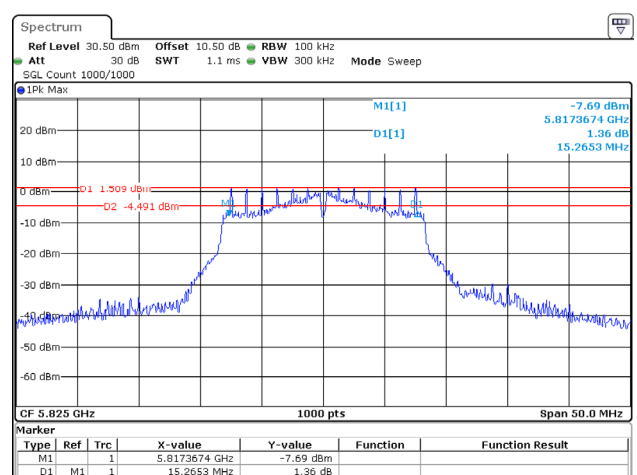
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Date: 24.MAY.2025 16:40:22

802.11a_5785MHz



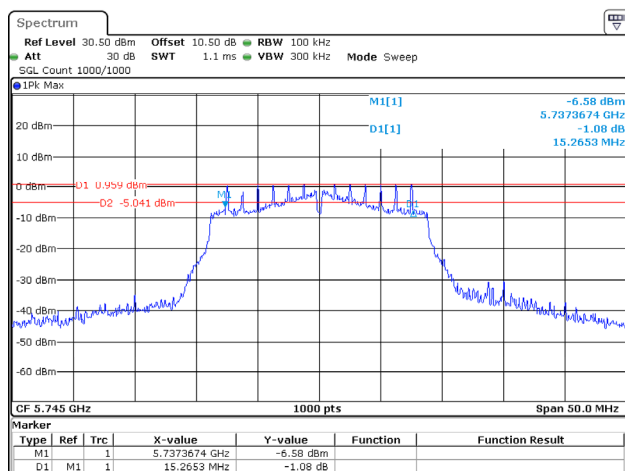
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802.11a_5825MHz



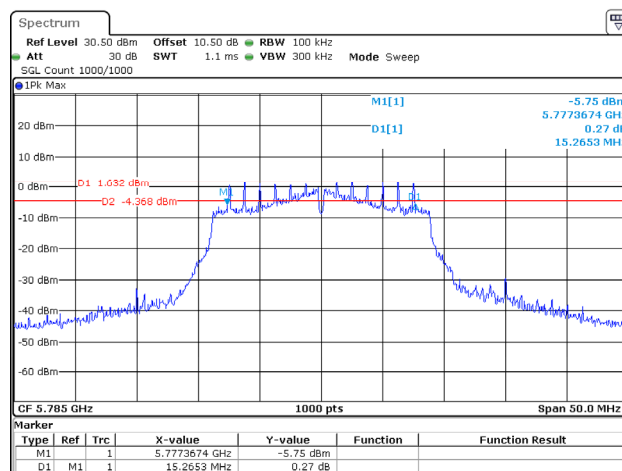
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Date: 24.MAY.2025 16:47:48

802.11ac20_5745MHz



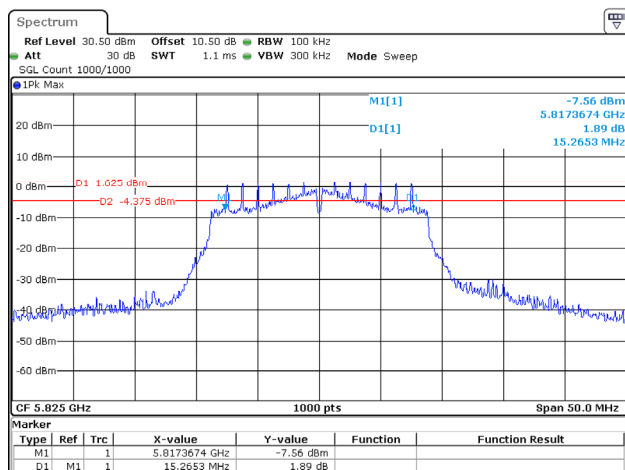
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802.11ac20_5785MHz



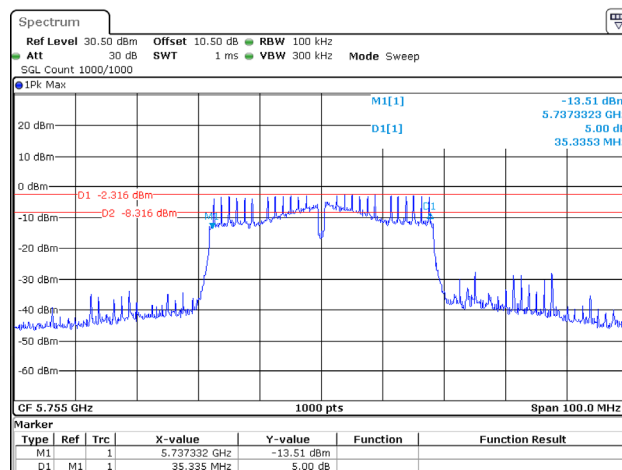
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Date: 24.MAY.2025 16:57:59

802.11ac20_5825MHz



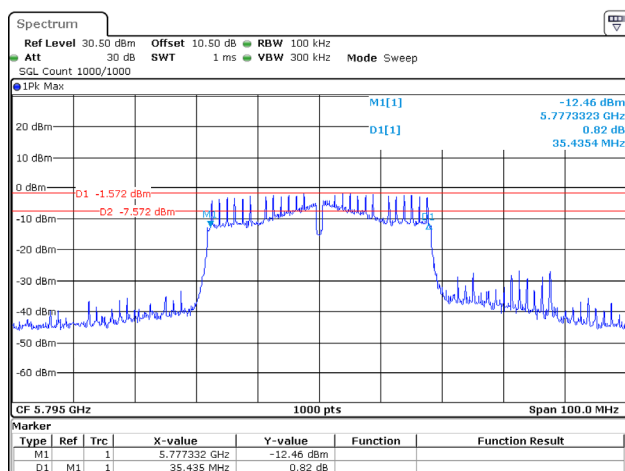
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802.11ac40_5755MHz



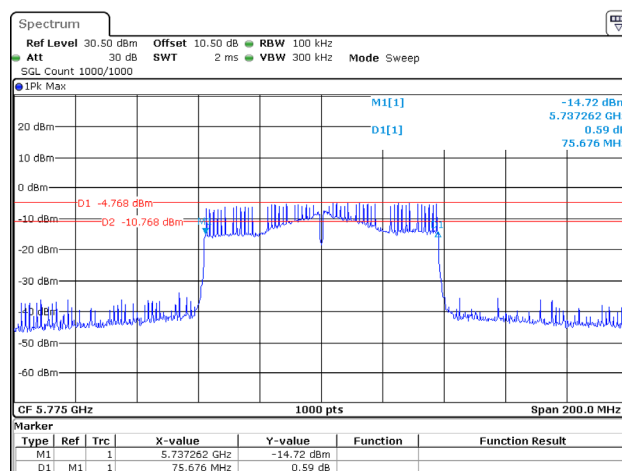
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802.11ac40_5795MHz



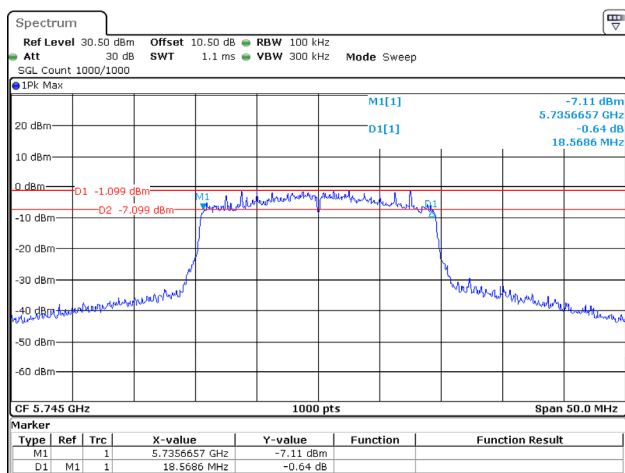
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Date: 24.MAY.2025 17:03:04

802.11ac80_5775MHz



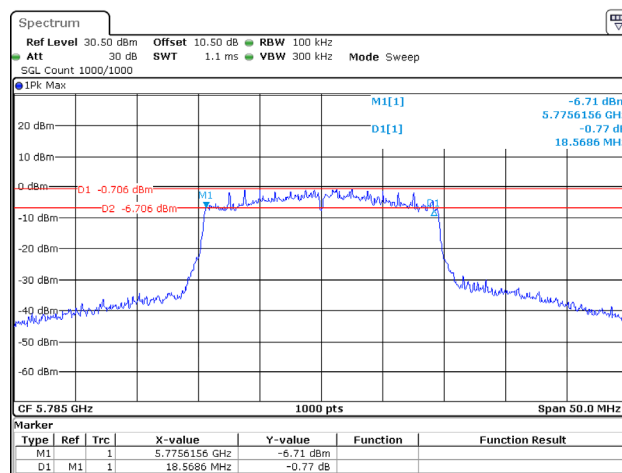
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802.11ax20_5745MHz_RU_Full



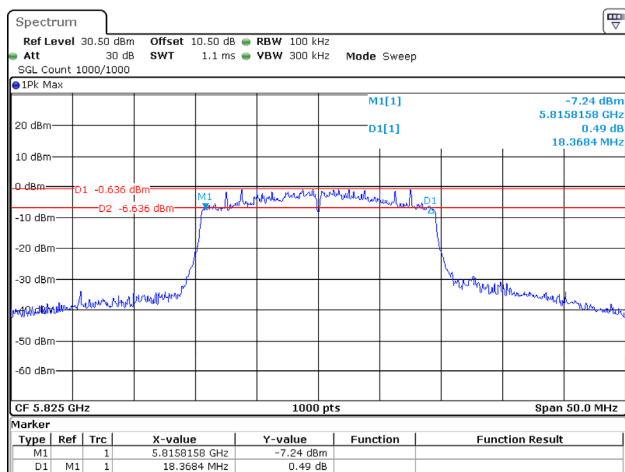
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802.11ax20_5785MHz_RU_Full



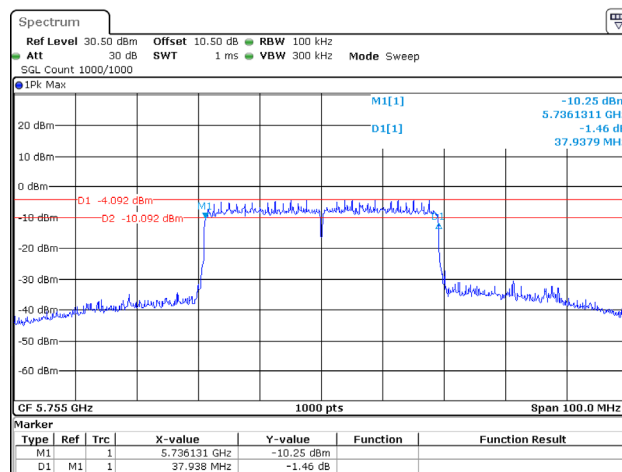
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Date: 24.MAY.2025 17:08:10

802.11ax20_5825MHz_RU_Full



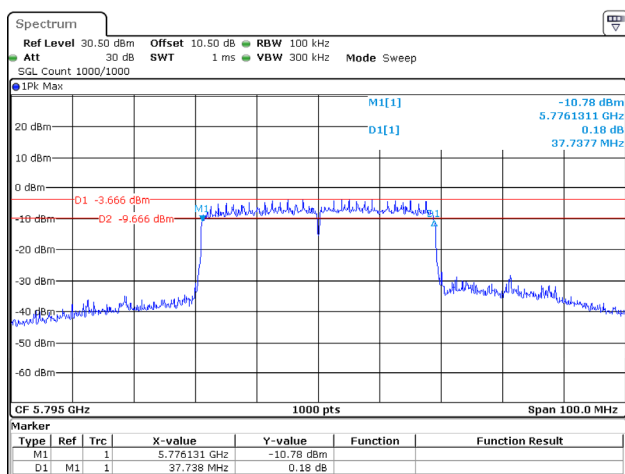
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Date: 24.MAY.2025 17:10:37

802.11ax40_5755MHz_RU_Full



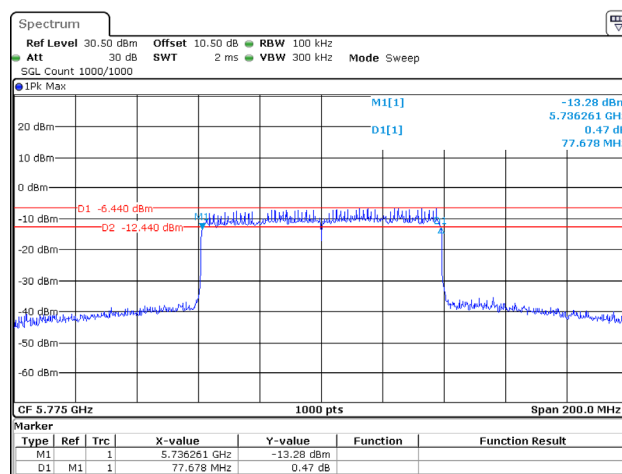
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Date: 24.MAY.2025 17:12:04

802.11ax40_5795MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaaster Liang
Date: 24.MAY.2025 17:13:04

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaaster Liang
Date: 24.MAY.2025 17:14:30

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.400
	5200	16.400
	5240	16.400
802.11ac20	5180	17.550
	5200	17.550
	5240	17.600
802.11ac40	5190	36.100
	5230	36.100
802.11ac80	5210	75.400
802.11ax20_RU_Full	5180	18.950
	5200	19
	5240	18.900
802.11ax40_RU_Full	5190	37.700
	5230	37.700
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

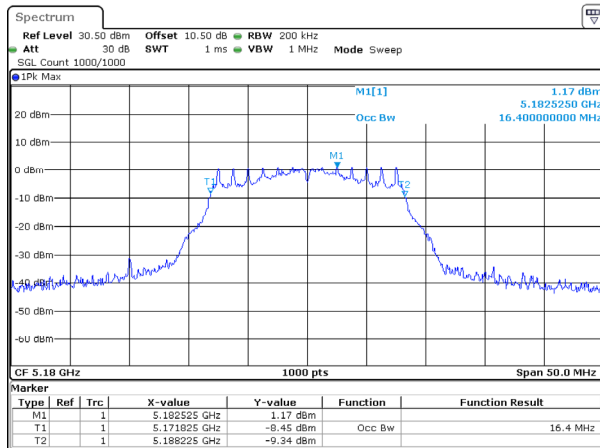
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.400
	5785	16.400
	5825	16.400
802.11ac20	5745	17.600
	5785	17.500
	5825	17.600
802.11ac40	5755	36.100
	5795	36
802.11ac80	5775	75.600
802.11ax20_RU_Full	5745	18.950
	5785	19
	5825	18.950
802.11ax40_RU_Full	5755	37.700
	5795	37.800
802.11ax80_RU_Full	5775	77.400

Note:

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

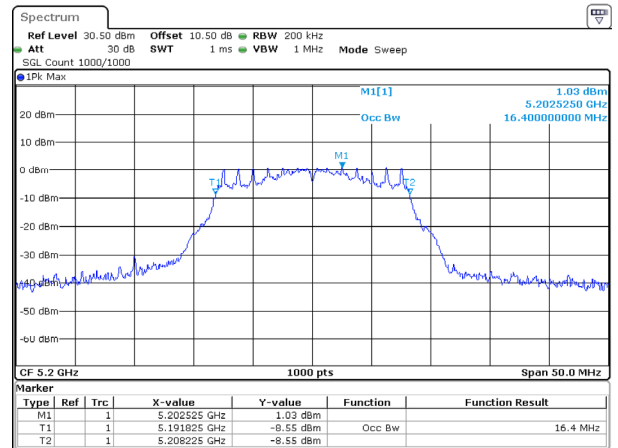
5150-5250MHz

802.11a_5180MHz



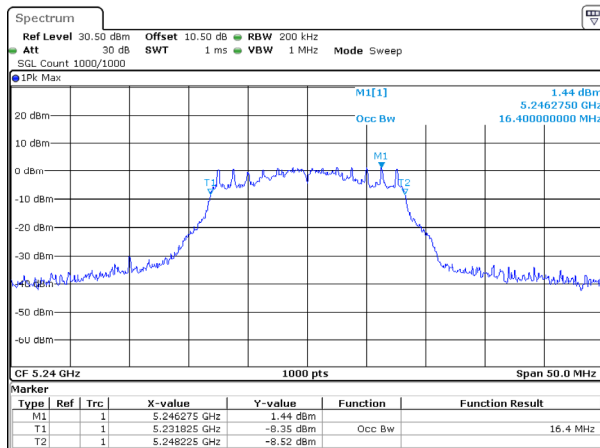
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Date: 24.MAY.2025 15:10:39

802.11a_5200MHz



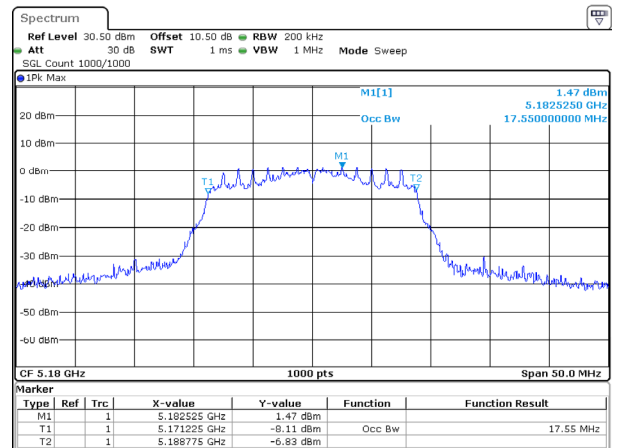
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802.11a_5240MHz



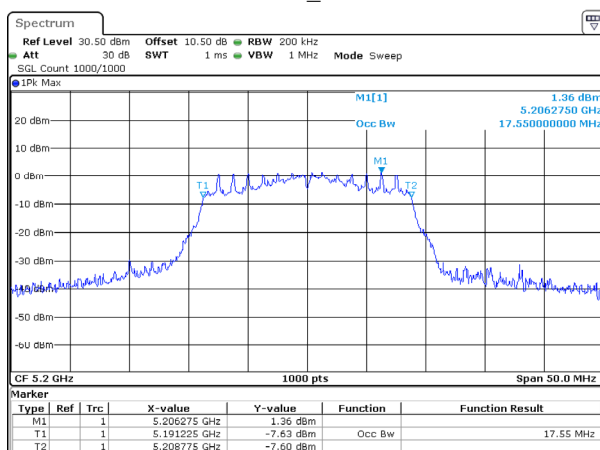
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802.11ac20_5180MHz



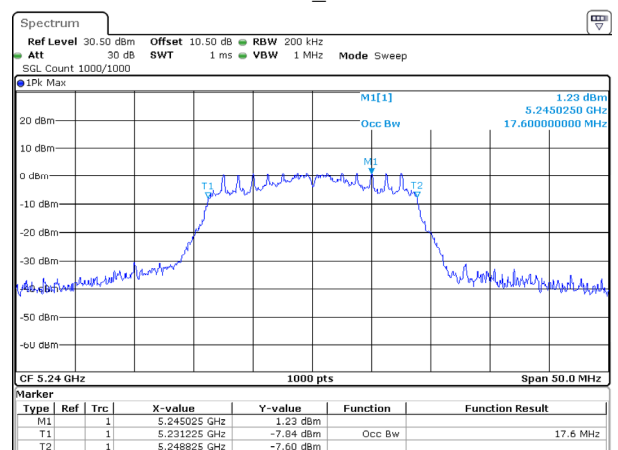
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802.11ac20_5200MHz



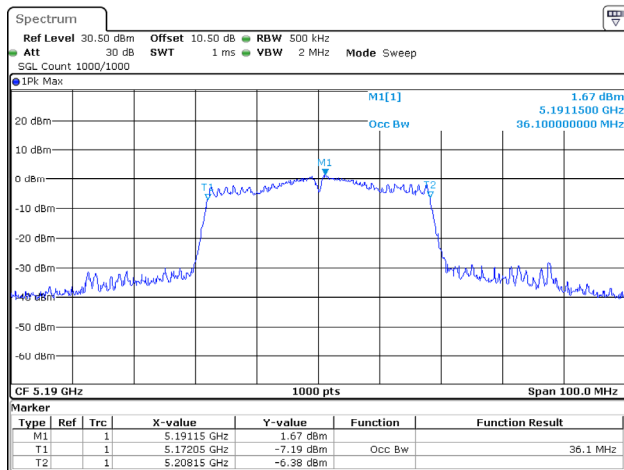
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802.11ac20_5240MHz



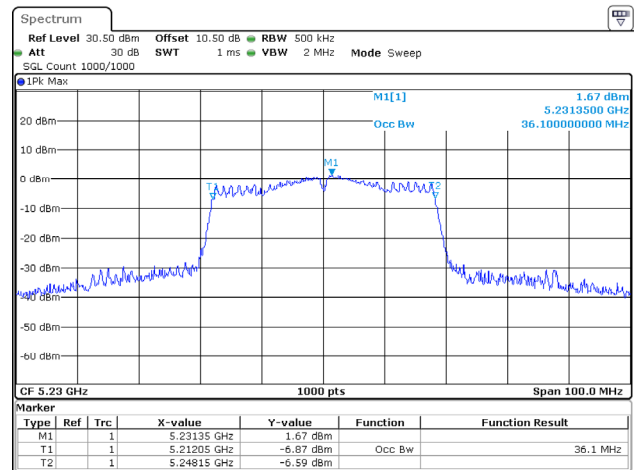
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Date: 24.MAY.2025 14:26:12

802.11ac40_5190MHz



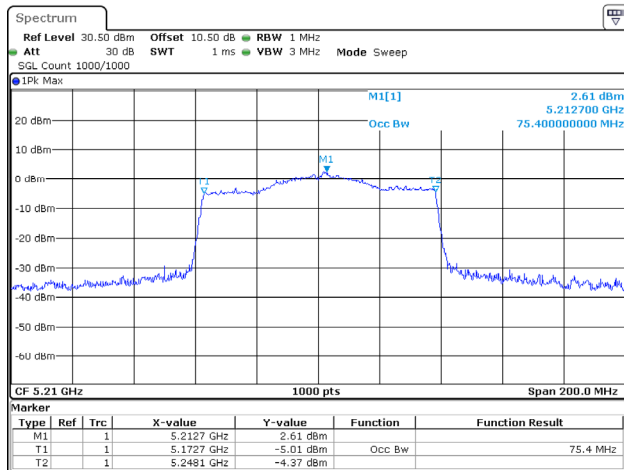
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Date: 24.MAY.2025 15:18:20

802.11ac40_5230MHz



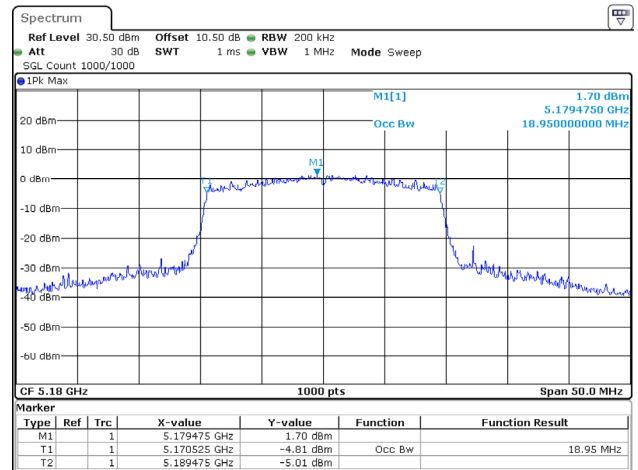
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Date: 24.MAY.2025 14:29:53

802.11ac80_5210MHz



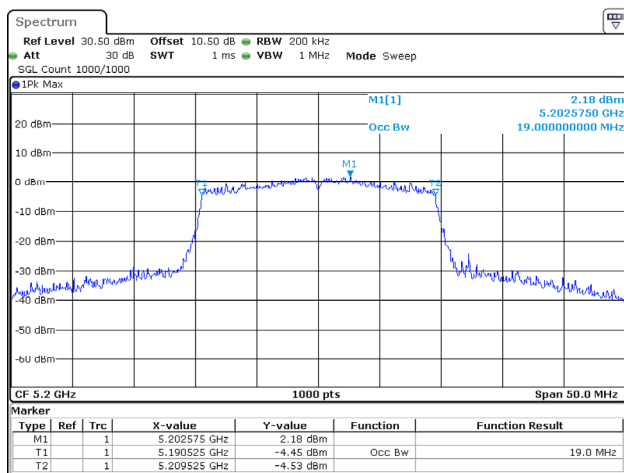
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Date: 24.MAY.2025 14:33:47

802.11ax20_5180MHz_RU_Full



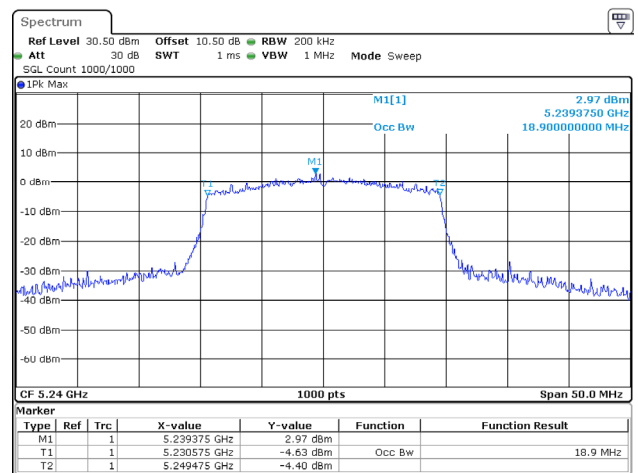
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Date: 24.MAY.2025 15:20:41

802.11ax20_5200MHz_RU_Full



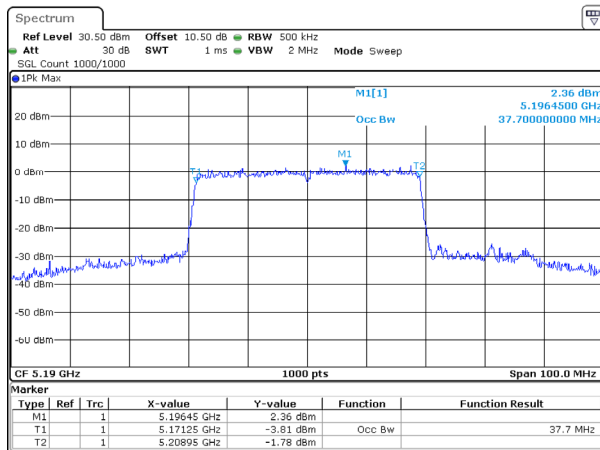
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Date: 24.MAY.2025 15:22:40

802.11ax20_5240MHz_RU_Full



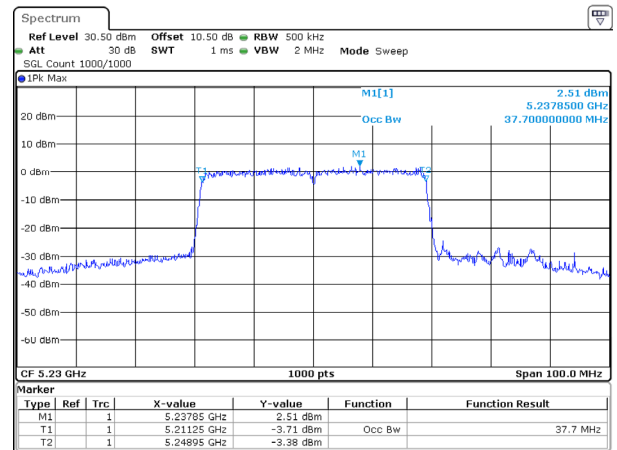
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Date: 24.MAY.2025 14:50:50

802.11ax40_5190MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaester Liang
Date: 24.MAY.2025 15:24:08

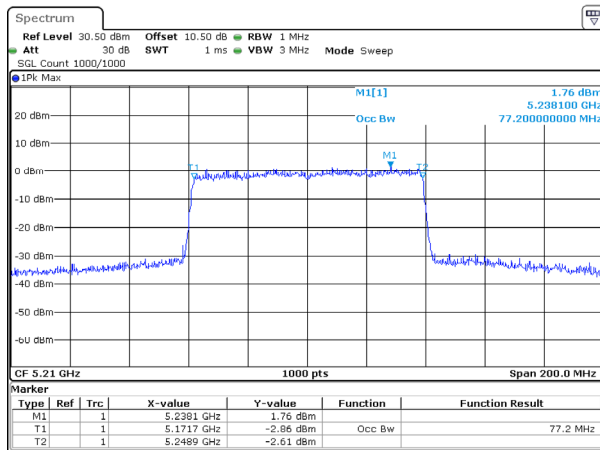
802.11ax40_5230MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaester Liang
Date: 24.MAY.2025 15:01:55

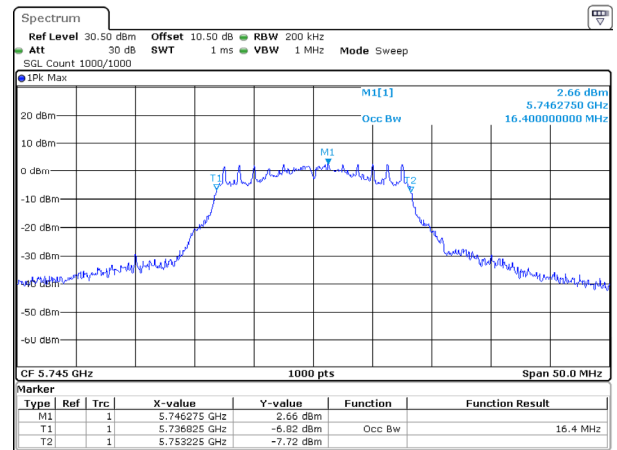
5725-5850MHz

802.11ax80_5210MHz_RU_Full



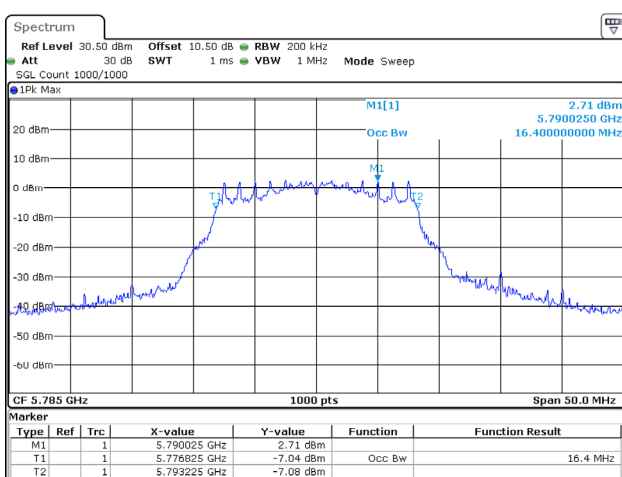
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Date: 24.MAY.2025 15:05:28

802.11a_5745MHz



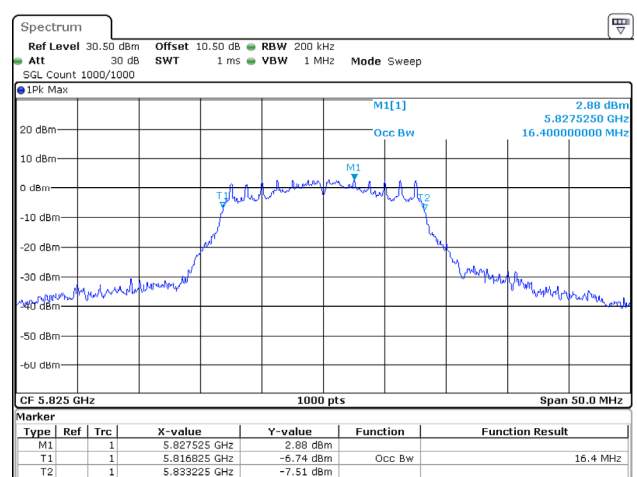
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Date: 24.MAY.2025 16:41:12

802.11a_5785MHz



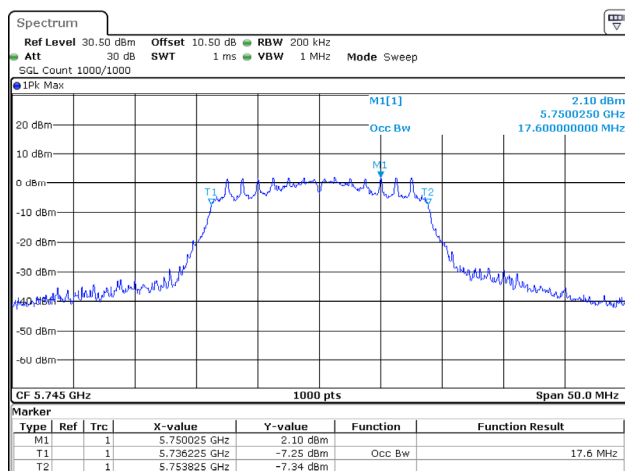
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Date: 24.MAY.2025 16:46:38

802.11a_5825MHz



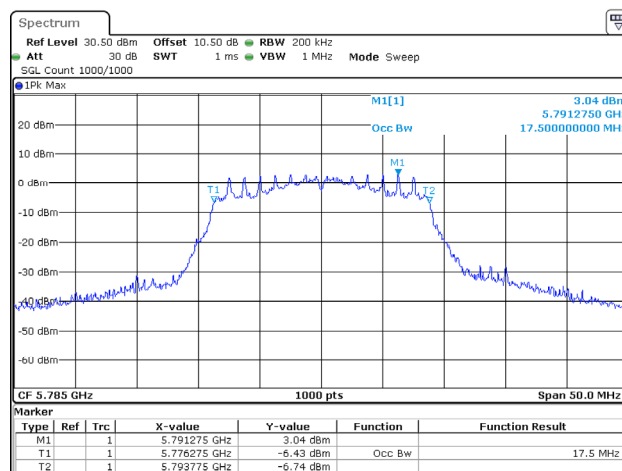
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Date: 24.MAY.2025 16:48:25

802.11ac20_5745MHz



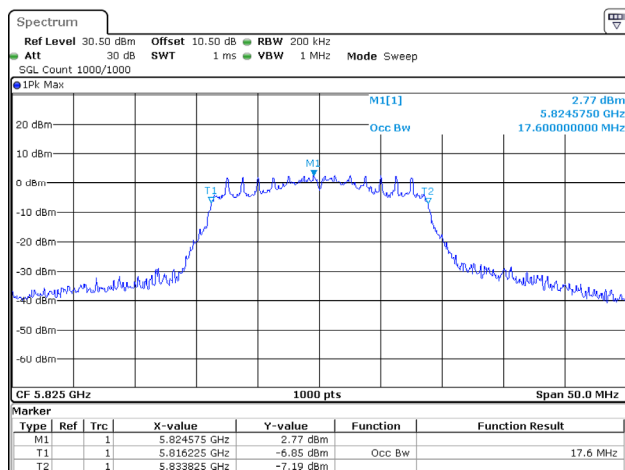
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802.11ac20_5785MHz



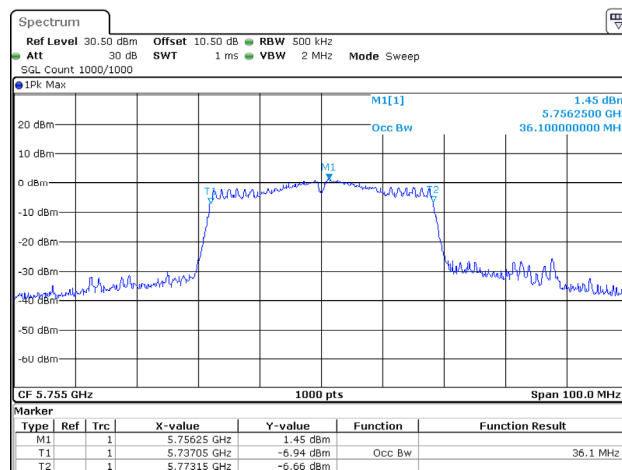
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Date: 24.MAY.2025 16:58:59

802.11ac20_5825MHz



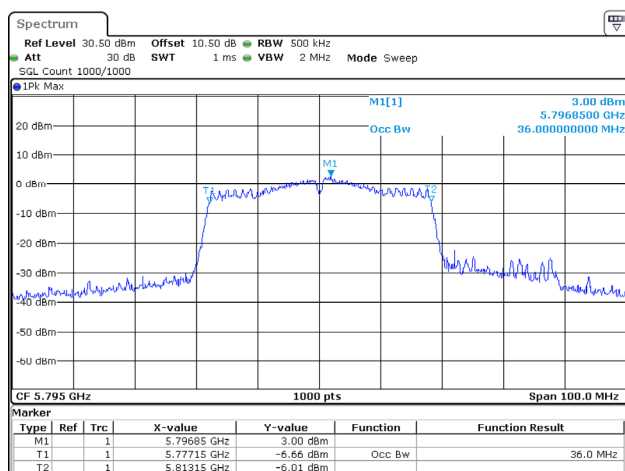
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Date: 24.MAY.2025 17:00:45

802.11ac40_5755MHz



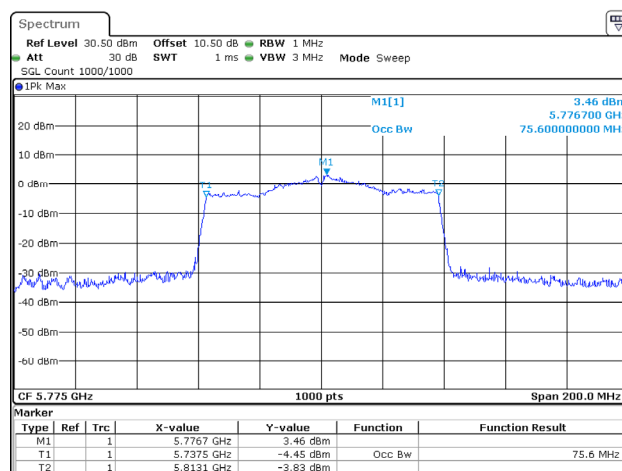
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Date: 24.MAY.2025 17:02:16

802.11ac40_5795MHz



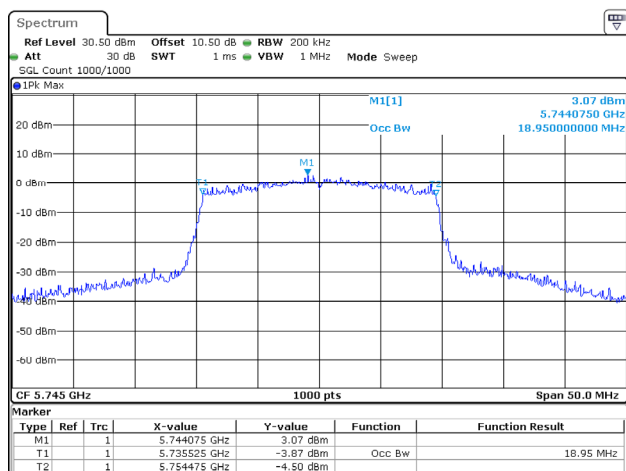
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Date: 24.MAY.2025 17:03:28

802.11ac80_5775MHz



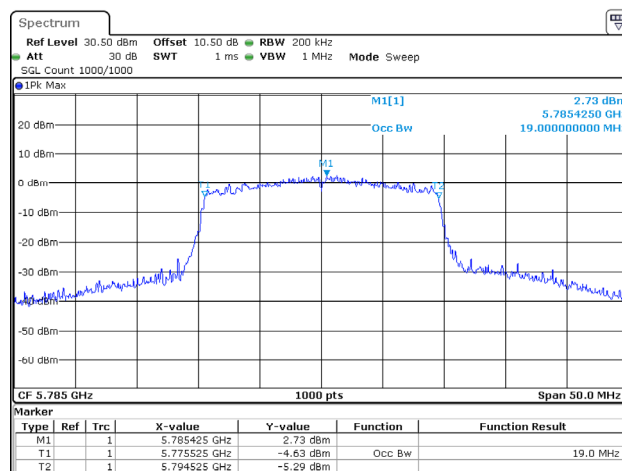
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Date: 24.MAY.2025 17:04:46

802.11ax20_5745MHz_RU_Full



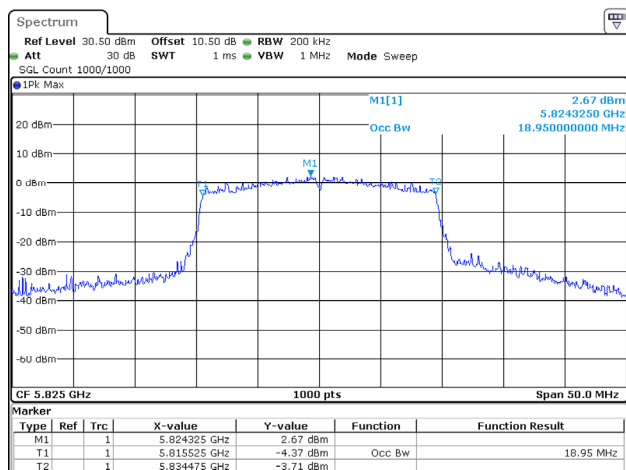
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Date: 24.MAY.2025 17:06:48

802.11ax20_5785MHz_RU_Full



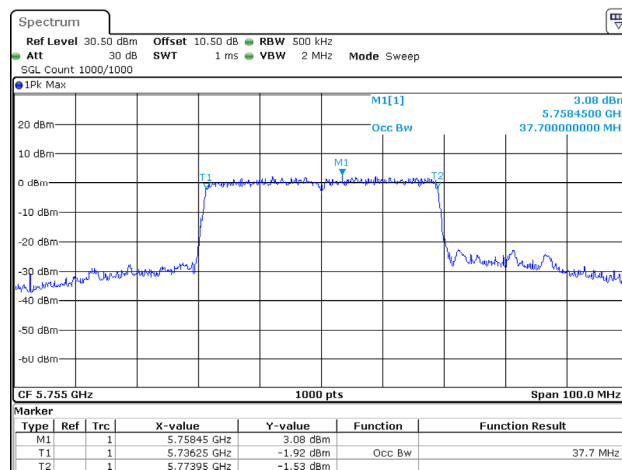
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Date: 24.MAY.2025 17:09:13

802.11ax20_5825MHz_RU_Full



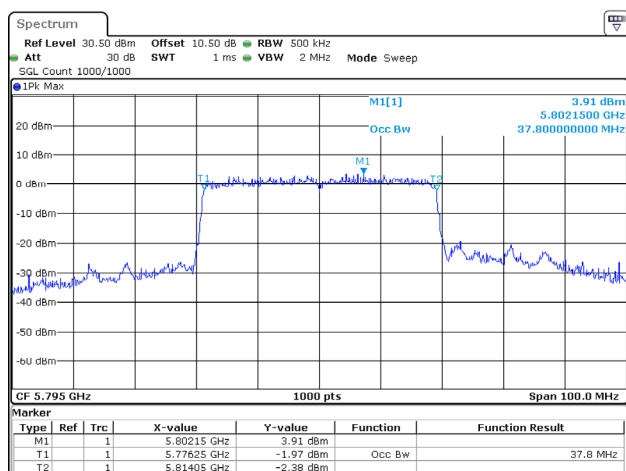
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Date: 24.MAY.2025 17:11:18

802.11ax40_5755MHz_RU_Full



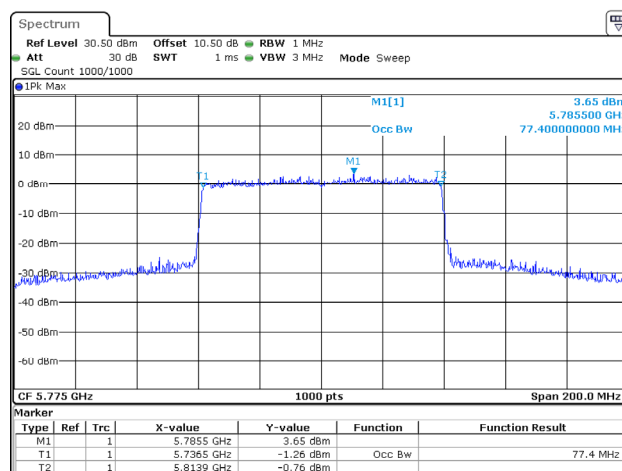
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Date: 24.MAY.2025 17:12:20

802.11ax40_5795MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaaster Liang
Date: 24.MAY.2025 17:13:21

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT2 Tester:Kungfumaaster Liang
Date: 24.MAY.2025 17:14:54

Maximum Conducted Output Power

5150-5250MHz

FCC:

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	9.41	30	Pass
	5200	9.41	30	Pass
	5240	9.55	30	Pass
802.11ac20	5180	9.31	30	Pass
	5200	9.16	30	Pass
	5240	9.4	30	Pass
802.11ac40	5190	8.71	30	Pass
	5230	8.77	30	Pass
802.11ac80	5210	8.72	30	Pass
802.11ax20_RU_Full	5180	10.40	30	Pass
	5200	10.40	30	Pass
	5240	10.47	30	Pass
802.11ax40_RU_Full	5190	9.32	30	Pass
	5230	9.35	30	Pass
802.11ax80_RU_Full	5210	8.37	30	Pass

IC:

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	5180	9.41	4.49	13.90	22.15	Pass
	5200	9.41	4.49	13.90	22.15	Pass
	5240	9.55	4.49	14.04	22.15	Pass
802.11ac20	5180	9.31	4.49	13.80	22.44	Pass
	5200	9.16	4.49	13.65	22.44	Pass
	5240	9.4	4.49	13.89	22.46	Pass
802.11ac40	5190	8.71	4.49	13.20	23.01	Pass
	5230	8.77	4.49	13.26	23.01	Pass
802.11ac80	5210	8.72	4.49	13.21	23.01	Pass
802.11ax20_RU_Full	5180	10.40	4.49	14.89	22.78	Pass
	5200	10.40	4.49	14.89	22.79	Pass
	5240	10.47	4.49	14.96	22.76	Pass
802.11ax40_RU_Full	5190	9.32	4.49	13.81	23.01	Pass
	5230	9.35	4.49	13.84	23.01	Pass
802.11ax80_RU_Full	5210	8.37	4.49	12.86	23.01	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	10.3	30	Pass
	5785	10.71	30	Pass
	5825	11.11	30	Pass
802.11ac20	5745	10.29	30	Pass
	5785	10.61	30	Pass
	5825	10.95	30	Pass
802.11ac40	5755	9.07	30	Pass
	5795	9.45	30	Pass
802.11ac80	5775	9.32	30	Pass
802.11ax20_RU_Full	5745	10.61	30	Pass
802.11ax20_RU_Full	5785	10.97	30	Pass
	5825	11.09	30	Pass
802.11ax40_RU_Full	5755	10.16	30	Pass
	5795	10.60	30	Pass
802.11ax80_RU_Full	5775	10.43	30	Pass

Note: EIRP = Average Output Power + Antenna gain