

Test Information:

Sample No.:	2T31-1	Test Date:	2024/11/16~2024/12/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24~26	Relative Humidity: (%)	47~52	ATM Pressure: (kPa)	101
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Maximum Conducted Output Power

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	12.47	24	Pass
		5200	13.07	24	Pass
		5240	13.23	24	Pass
802.11ac20	Chain 0	5180	12.75	24	Pass
		5200	12.84	24	Pass
		5240	13.47	24	Pass
802.11ac40	Chain 0	5190	12.53	24	Pass
		5230	13.21	24	Pass
802.11ac80	Chain 0	5210	12.71	24	Pass
802.11ax20	Chain 0	5180	11.41	24	Pass
		5200	11.82	24	Pass
		5240	12.26	24	Pass
802.11ax40	Chain 0	5190	11.61	24	Pass
		5230	12.11	24	Pass
802.11ax80	Chain 0	5210	11.62	24	Pass

Note: The EUT is a client device.

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	13.03	30	Pass
		5785	11.55	30	Pass
		5825	10.49	30	Pass
802.11ac20	Chain 0	5745	12.43	30	Pass
		5785	11.74	30	Pass
		5825	10.4	30	Pass
802.11ac40	Chain 0	5755	12.75	30	Pass
		5795	11.49	30	Pass
802.11ac80	Chain 0	5775	12.18	30	Pass
802.11ax20	Chain 0	5745	12.07	30	Pass
		5785	10.78	30	Pass
		5825	10.11	30	Pass
802.11ax40	Chain 0	5755	11.75	30	Pass
802.11ax40	Chain 0	5795	10.84	30	Pass
802.11ax80	Chain 0	5775	11.56	30	Pass

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

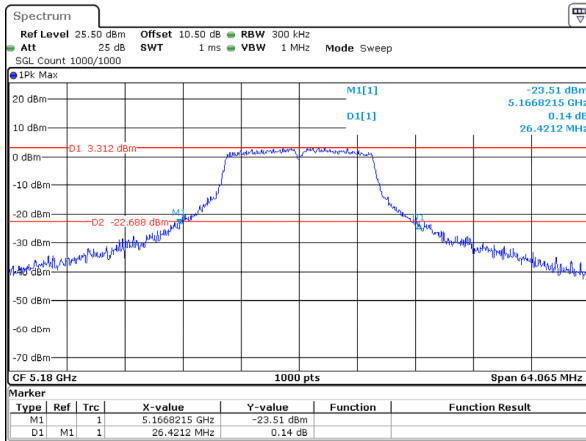
Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	26.421
		5200	27.115
		5240	27.293
802.11ac20	Chain 0	5180	27.320
		5200	27.081
		5240	28.547
802.11ac40	Chain 0	5190	46.947
		5230	53.487
802.11ac80	Chain 0	5210	91.892
802.11ax20	Chain 0	5180	25.896
		5200	27.197
		5240	28.618
802.11ax40	Chain 0	5190	45.045
		5230	45.546
802.11ax80	Chain 0	5210	90.290

6dB Emission Bandwidth
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.438	0.5	Pass
		5785	16.438	0.5	Pass
		5825	16.500	0.5	Pass
802.11ac20	Chain 0	5745	17.750	0.5	Pass
		5785	17.750	0.5	Pass
		5825	17.688	0.5	Pass
802.11ac40	Chain 0	5755	36.750	0.5	Pass
		5795	36.625	0.5	Pass
802.11ac80	Chain 0	5775	76.500	0.5	Pass
802.11ax20	Chain 0	5745	19.250	0.5	Pass
		5785	19.250	0.5	Pass
		5825	19.125	0.5	Pass
802.11ax40	Chain 0	5755	38.375	0.5	Pass
		5795	38.500	0.5	Pass
802.11ax80	Chain 0	5775	78.750	0.5	Pass

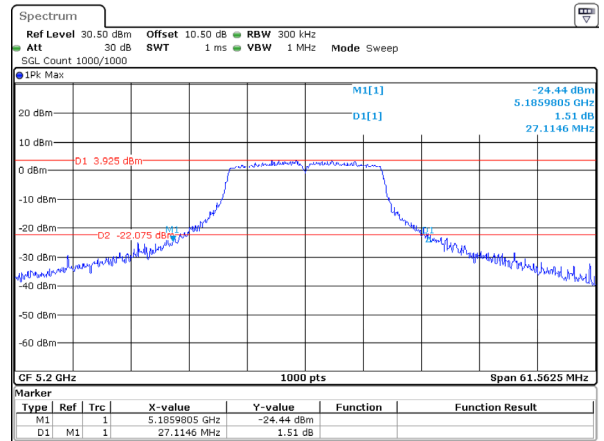
5150-5250MHz

802.11a_5180MHz 26.421MHz



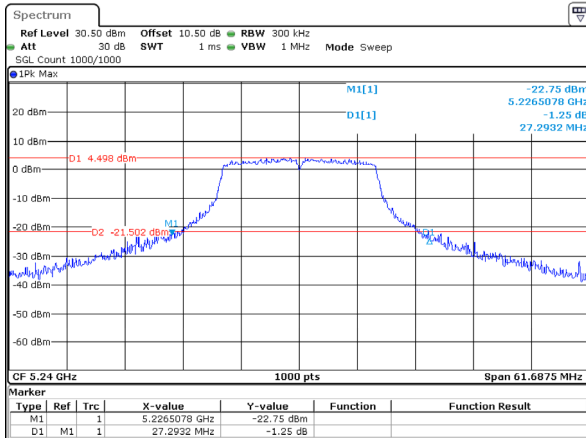
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 17.DEC.2024 18:41:46

802.11a_5200MHz 27.115MHz



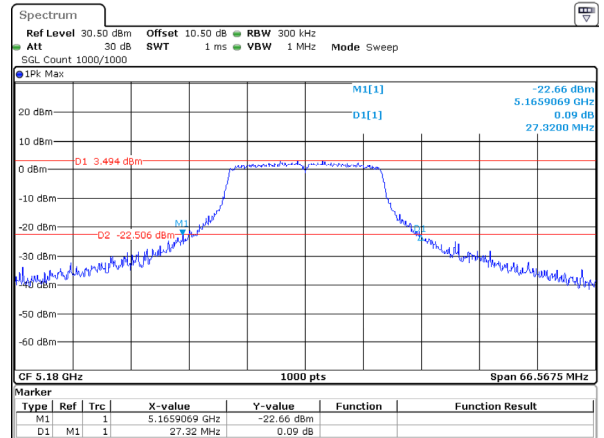
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802.11a_5240MHz 27.293MHz



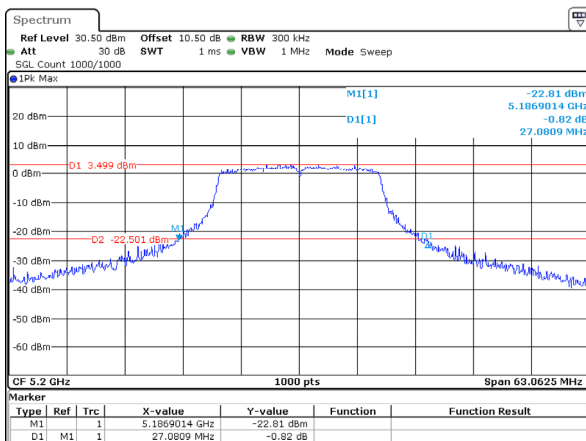
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802.11ac20_5180MHz 27.320MHz



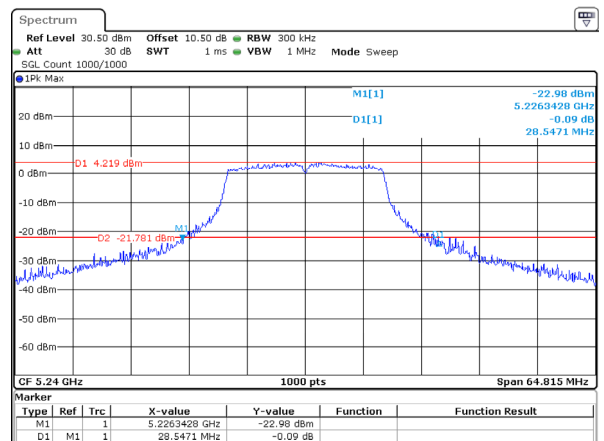
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802.11ac20_5200MHz 27.081MHz



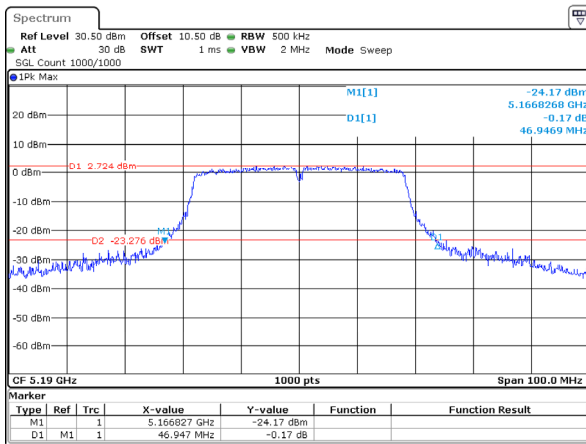
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802.11ac20_5240MHz 28.547MHz



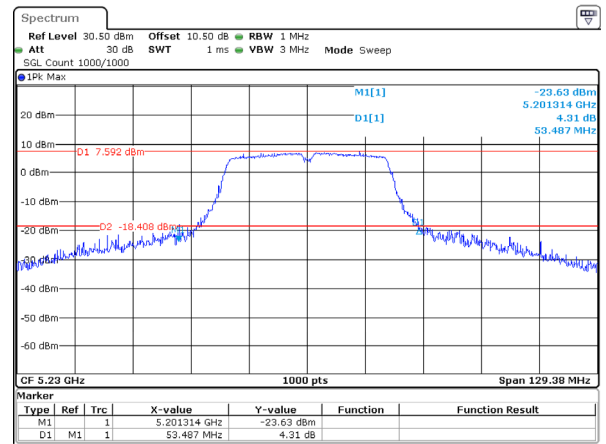
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802.11ac40_5190MHz 46.947MHz



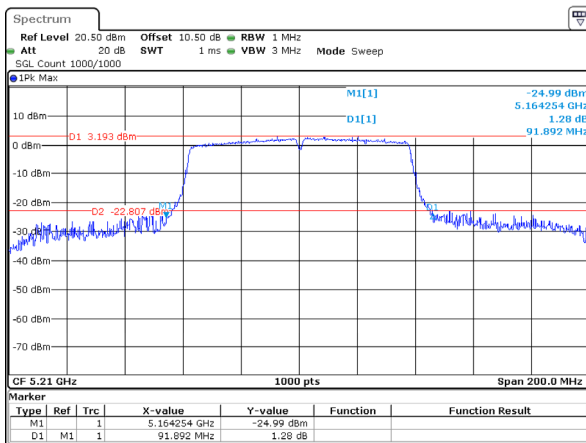
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Date: 17.DEC.2024 19:09:31

802.11ac40_5230MHz 53.487MHz



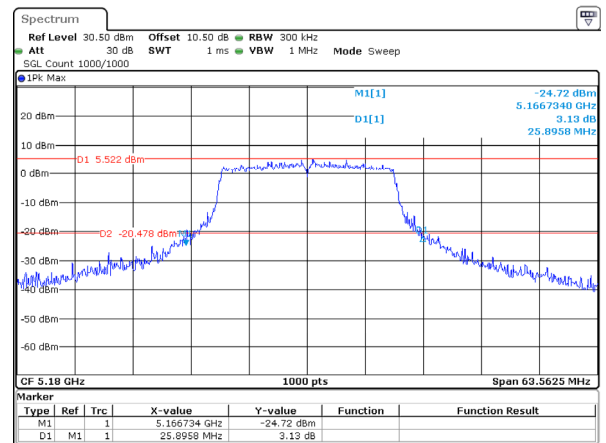
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802.11ac80_5210MHz 91.892MHz



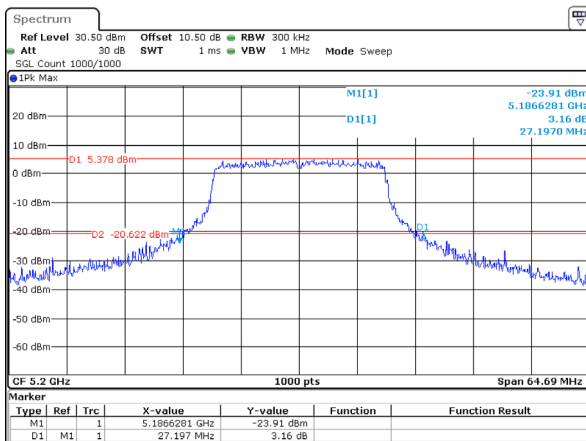
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802.11ax20_5180MHz_RU_Full 25.896MHz



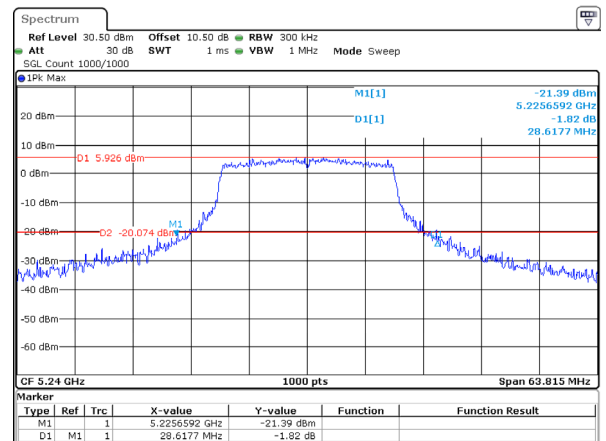
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802.11ax20_5200MHz_RU_Full 27.197MHz



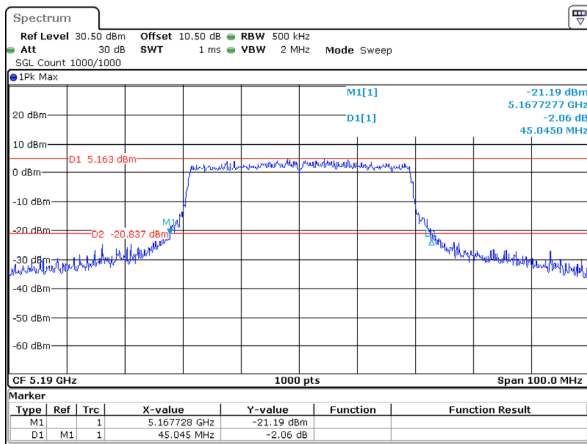
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802.11ax20_5240MHz_RU_Full 28.618MHz



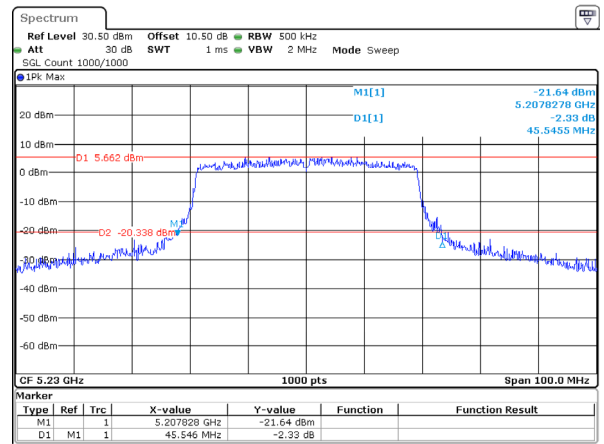
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Date: 17.DEC.2024 19:33:50

802.11ax40_5190MHz_RU_Full 45.045MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 17.DEC.2024 19:38:09

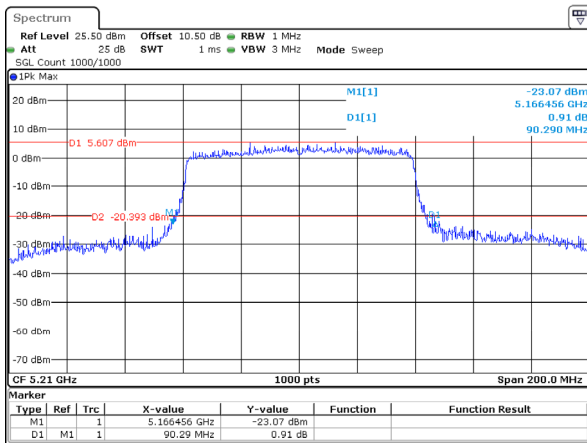
802.11ax40_5230MHz_RU_Full 45.546MHz



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Date: 17.DEC.2024 19:41:58

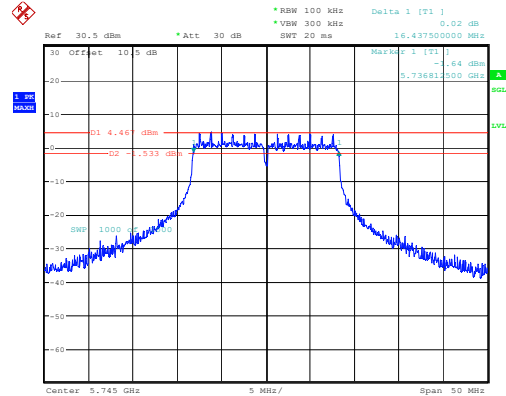
5725-5850MHz

802.11ax80_5210MHz_RU_Full 90.290MHz



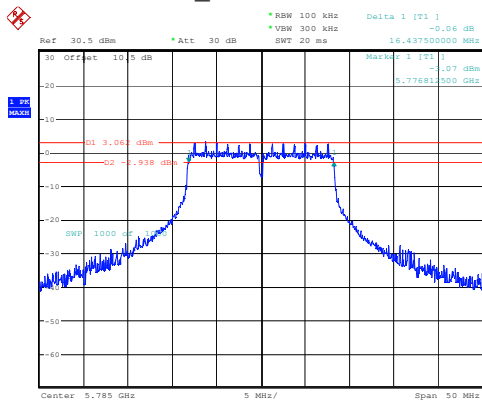
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802.11a_5745MHz 16.438MHz



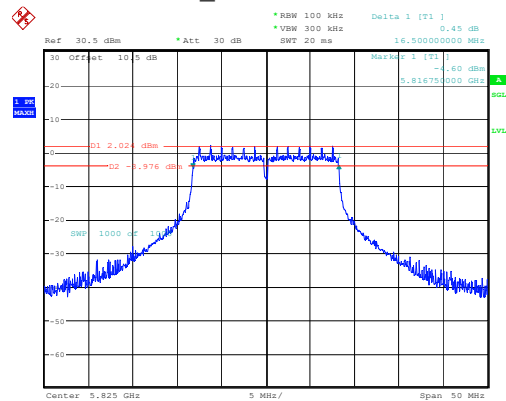
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802.11a_5785MHz 16.438MHz



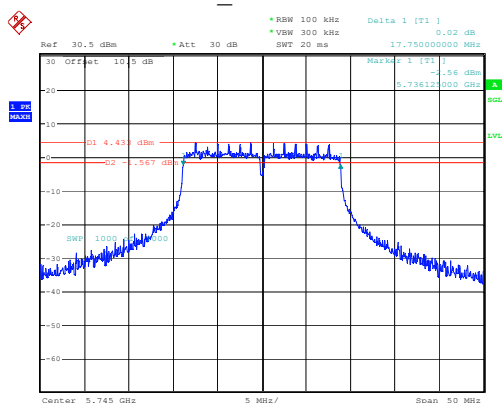
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802.11a_5825MHz 16.500MHz



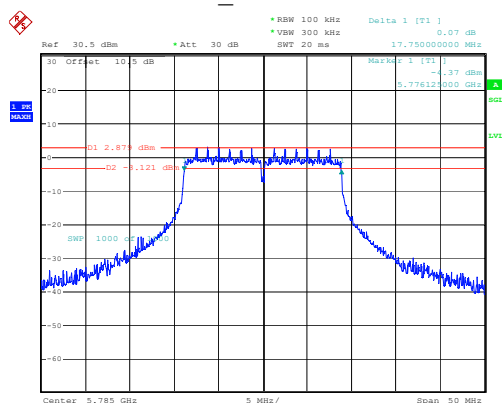
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802.11ac20_5745MHz 17.750MHz



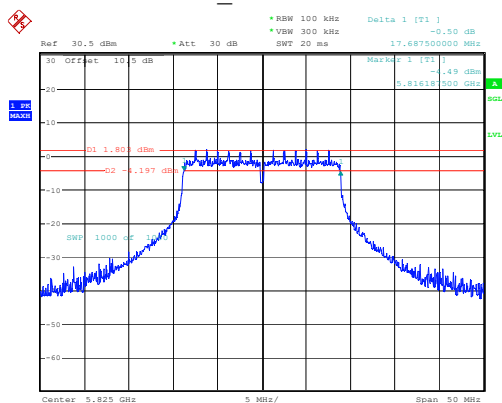
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802.11ac20_5785MHz 17.750MHz



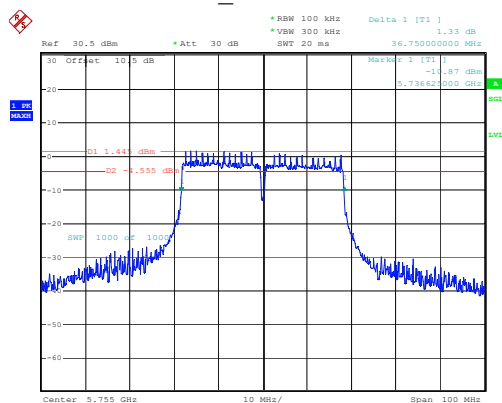
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802.11ac20_5825MHz 17.688MHz



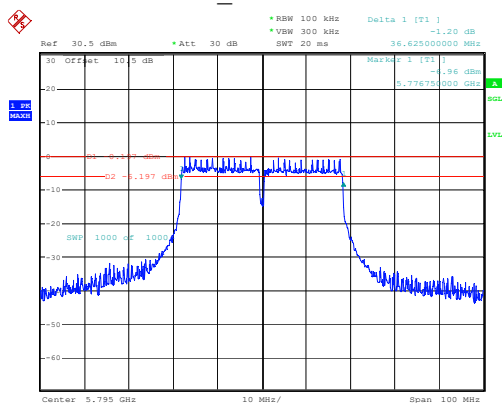
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802.11ac40_5755MHz 36.750MHz



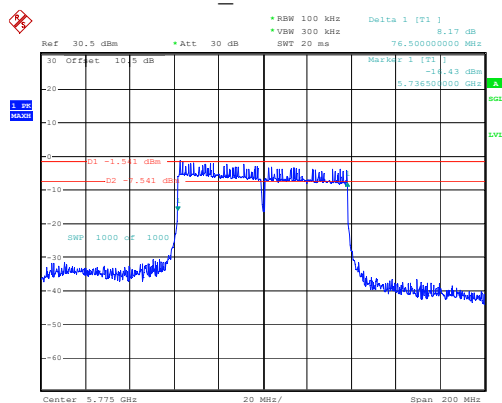
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802.11ac40_5795MHz 36.625MHz



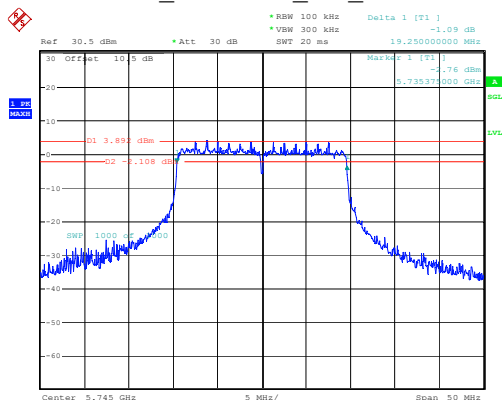
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Date: 18.NOV.2024 03:25:31

802.11ac80_5775MHz 76.500MHz



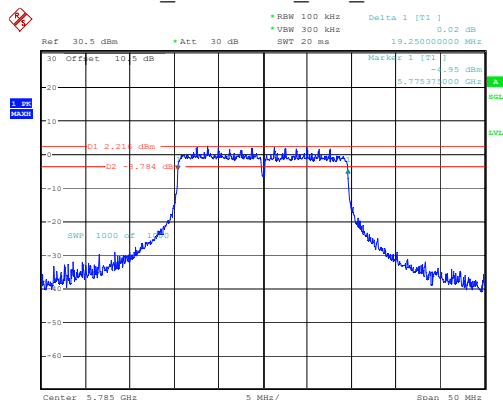
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802.11ax20_5745MHz_RU_Full 19.250MHz



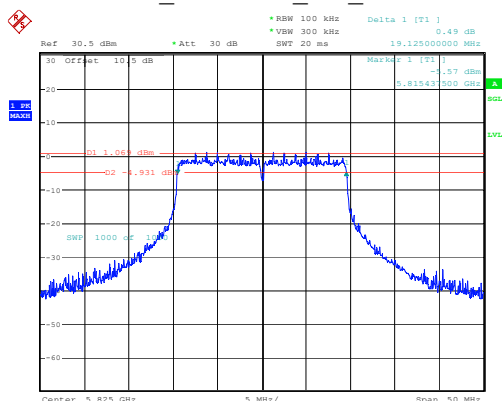
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802.11ax20_5785MHz_RU_Full 19.250MHz



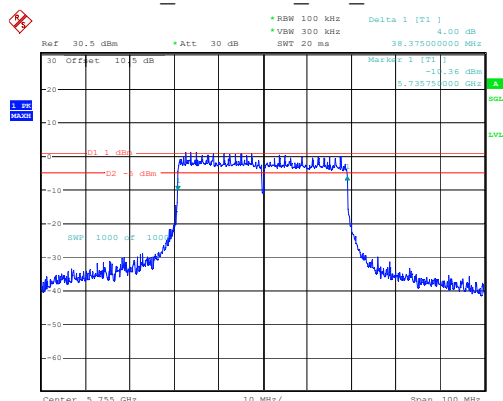
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802.11ax20_5825MHz_RU_Full 19.125MHz



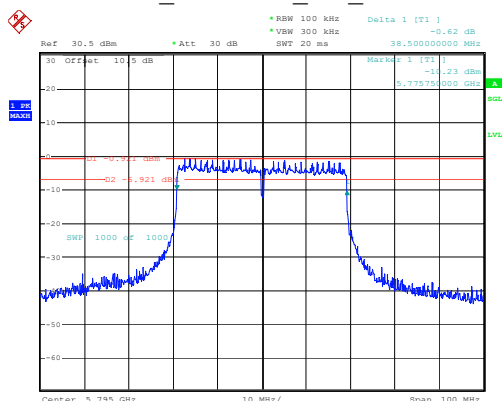
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802.11ax40_5755MHz_RU_Full 38.375MHz



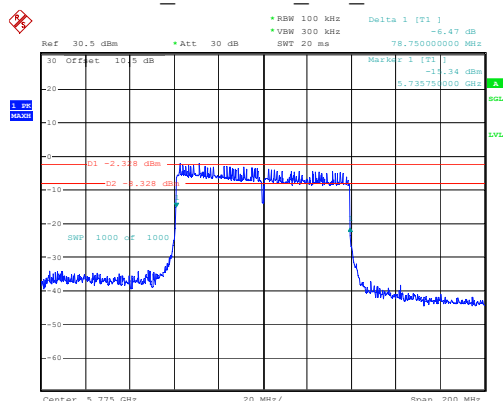
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Date: 18.NOV.2024 03:41:30

802.11ax40_5795MHz_RU_Full 38.500MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:45:26

802.11ax80_5775MHz_RU_Full 78.750MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:49:31

99% Occupied Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	17.188
		5200	17.250
		5240	17.188
802.11ac20	Chain 0	5180	18.313
		5200	18.438
		5240	18.375
802.11ac40	Chain 0	5190	37.625
		5230	37.625
802.11ac80	Chain 0	5210	78.500
802.11ax20	Chain 0	5180	19.313
		5200	19.313
		5240	19.313
802.11ax40	Chain 0	5190	38.250
		5230	38.375
802.11ax80	Chain 0	5210	78

Note:

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

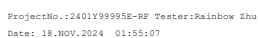
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	17.313
		5785	17.313
		5825	17.250
802.11ac20	Chain 0	5745	18.500
		5785	18.438
		5825	18.375
802.11ac40	Chain 0	5755	37.625
		5795	37.625
802.11ac80	Chain 0	5775	78.250
802.11ax20	Chain 0	5745	19.438
		5785	19.375
		5825	19.438
802.11ax40	Chain 0	5755	38.500
		5795	38.500
802.11ax80	Chain 0	5775	78.250

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 17.188MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 01:59:27

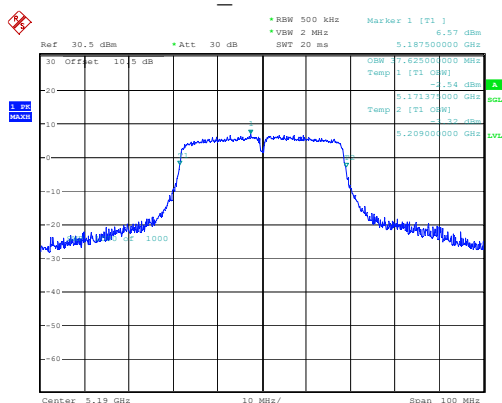
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ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 02:07:02

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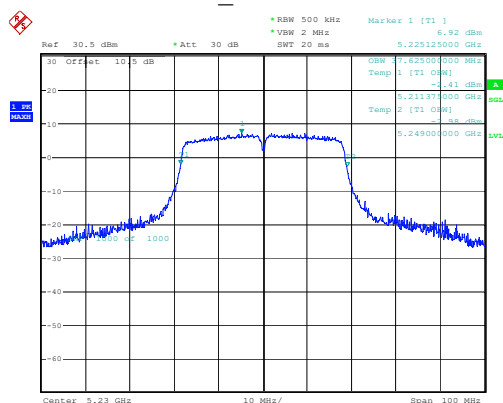
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802.11ac40_5190MHz 37.625MHz



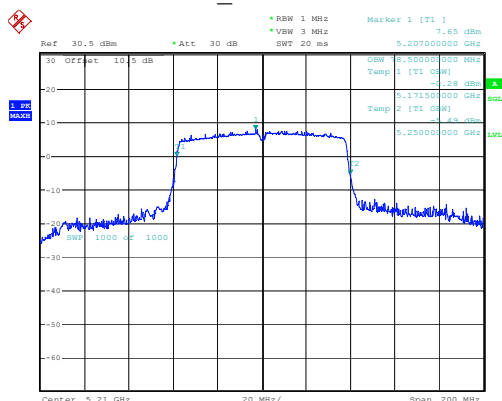
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802.11ac40_5230MHz 37.625MHz



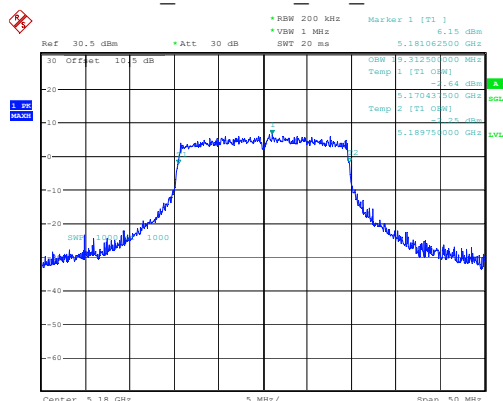
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802.11ac80_5210MHz 78.500MHz



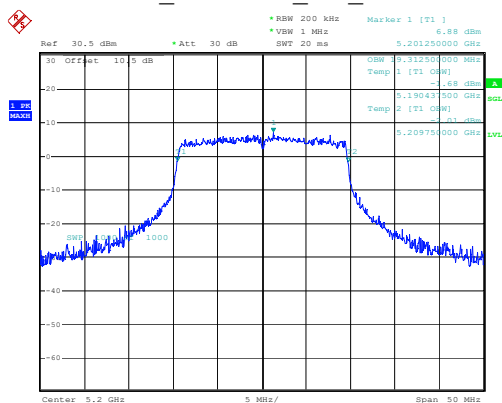
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802.11ax20_5180MHz_RU_Full 19.313MHz



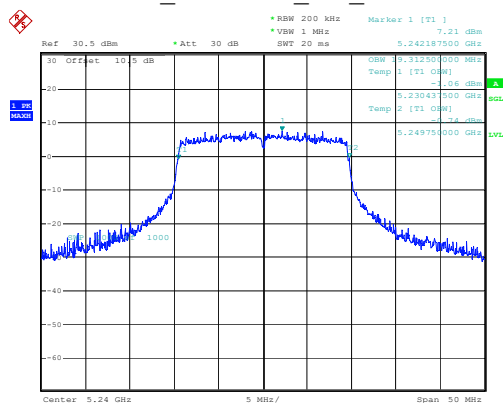
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802.11ax20_5200MHz_RU_Full 19.313MHz



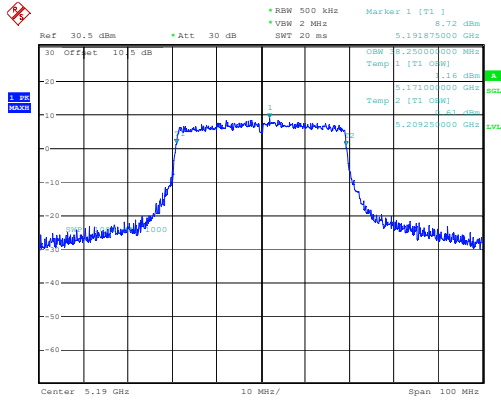
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802.11ax20_5240MHz_RU_Full 19.313MHz



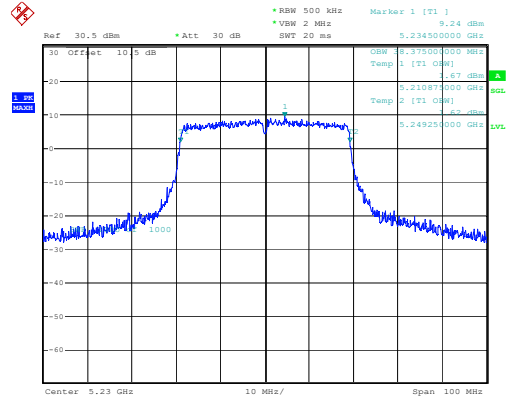
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Date: 18.NOV.2024 02:40:37

802.11ax40_5190MHz_RU_Full 38.250MHz



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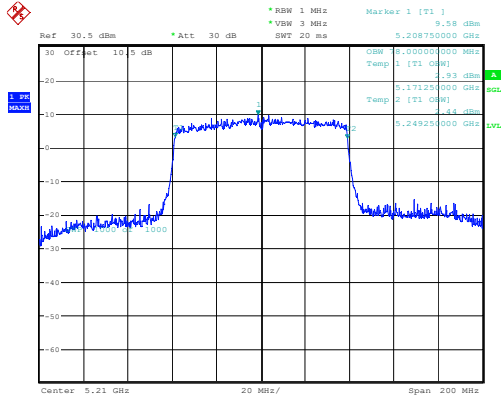
802.11ax40_5230MHz_RU_Full 38.375MHz



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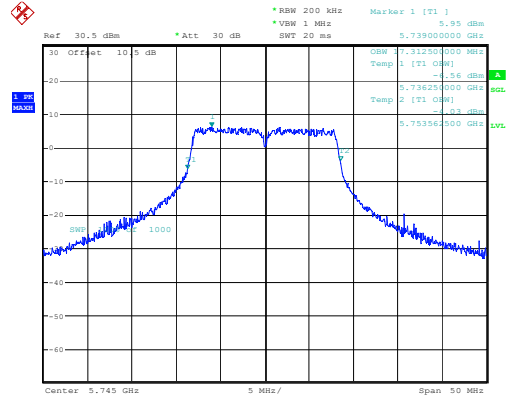
5725-5850MHz

802.11ax80_5210MHz_RU_Full 78MHz



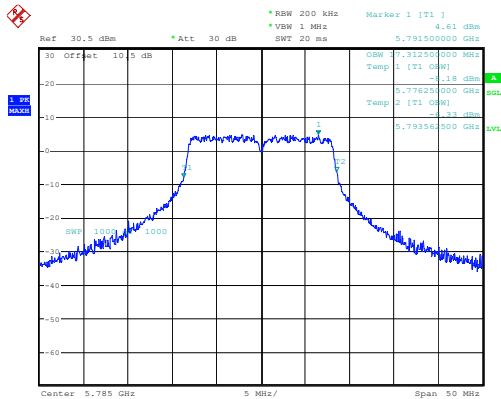
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802.11a_5745MHz 17.313MHz



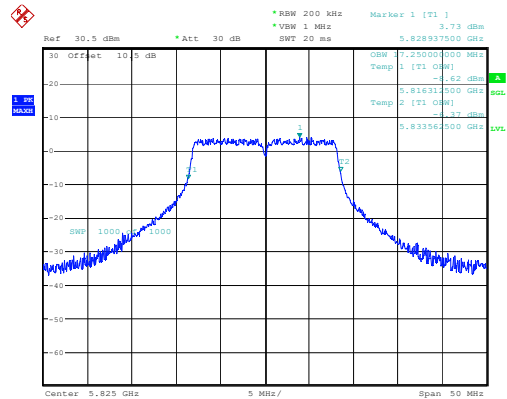
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802.11a_5785MHz 17.313MHz



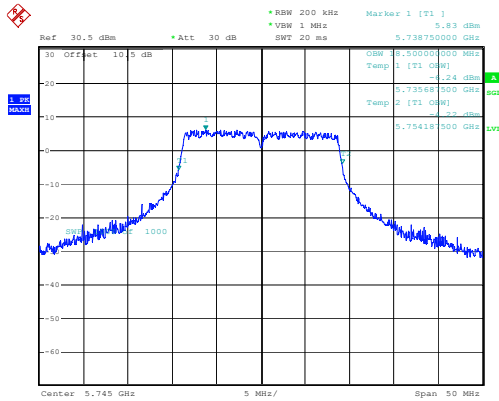
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802.11a_5825MHz 17.250MHz



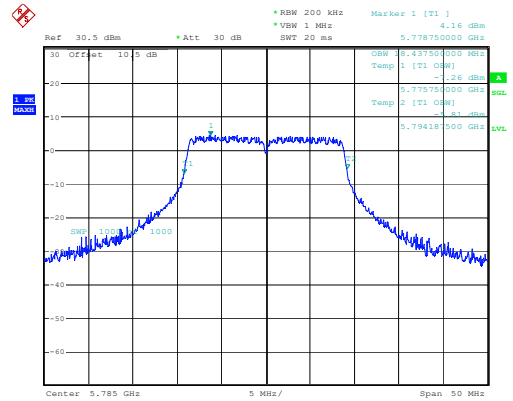
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802.11ac20_5745MHz 18.500MHz



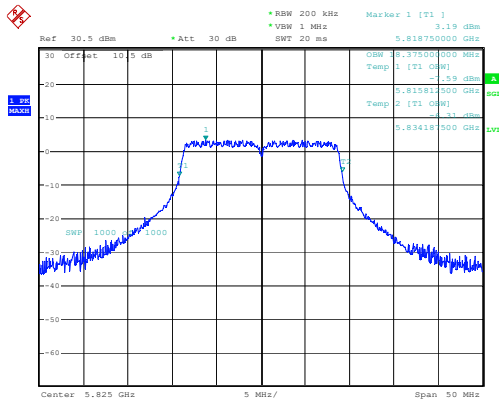
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Date: 18.NOV.2024 03:06:22

802.11ac20_5785MHz 18.438MHz



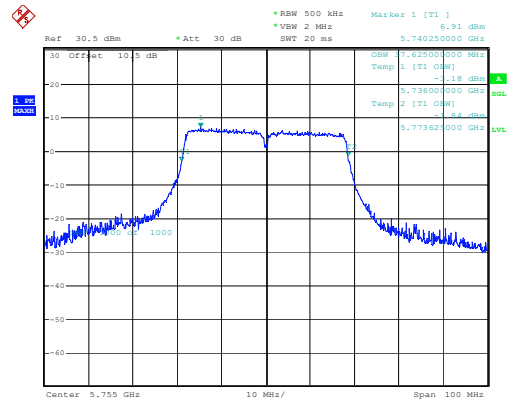
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:09:42

802.11ac20_5825MHz 18.375MHz



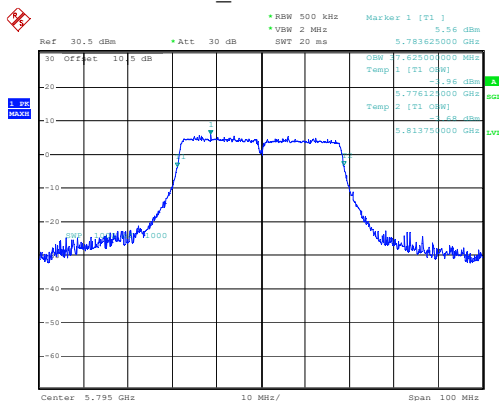
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:12:07

802.11ac40_5755MHz 37.625MHz



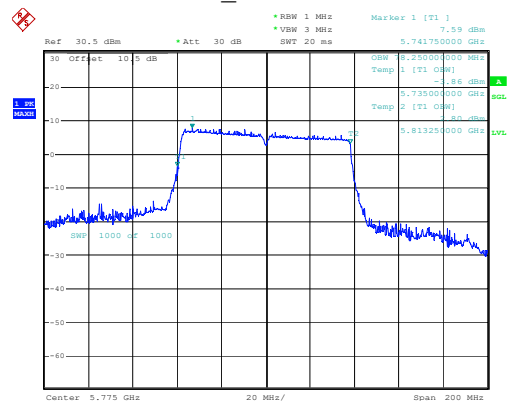
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Date: 18.NOV.2024 03:16:04

802.11ac40_5795MHz 37.625MHz



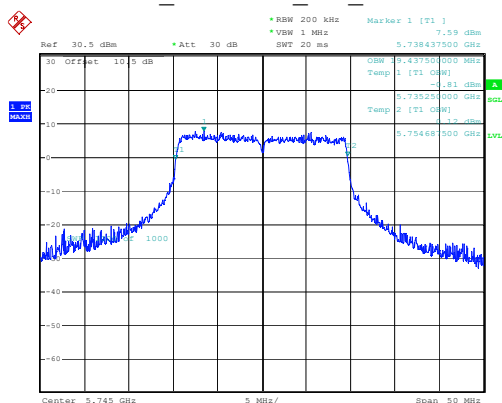
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:27:15

802.11ac80_5775MHz 78.250MHz



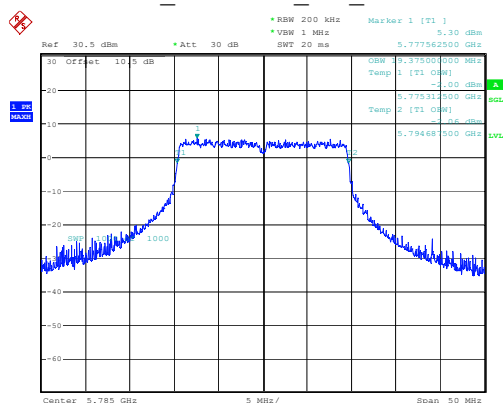
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Date: 18.NOV.2024 03:31:39

802.11ax20_5745MHz_RU_Full 19.438MHz



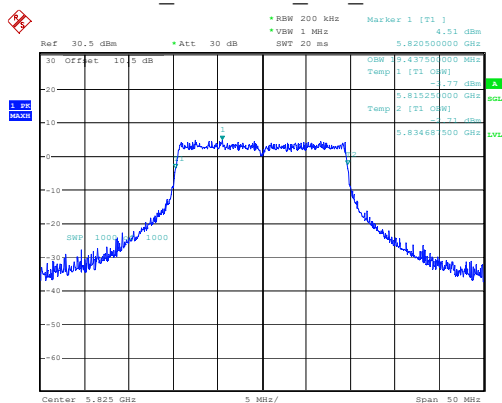
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:34:06

802.11ax20_5785MHz_RU_Full 19.375MHz



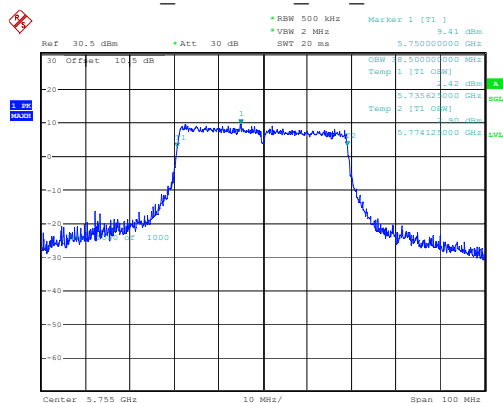
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Date: 18.NOV.2024 03:36:41

802.11ax20_5825MHz_RU_Full 19.438MHz



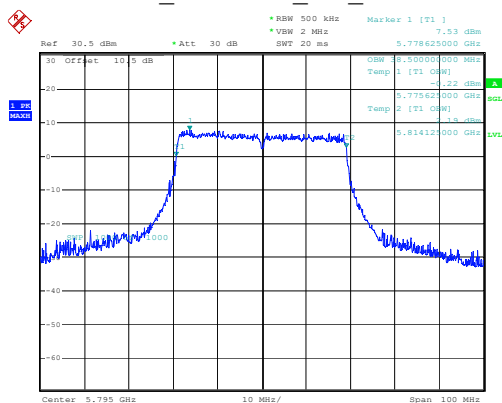
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:39:05

802.11ax40_5755MHz_RU_Full 38.500MHz



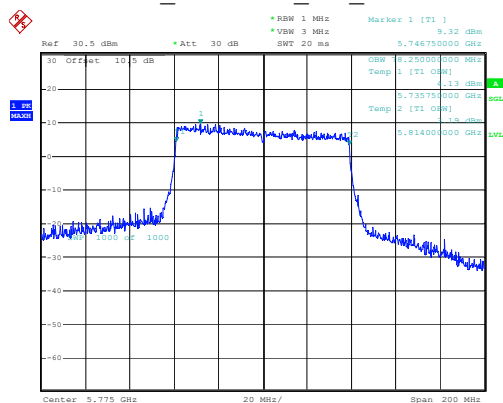
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Date: 18.NOV.2024 03:43:11

802.11ax40_5795MHz_RU_Full 38.500MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:47:11

802.11ax80_5775MHz_RU_Full 78.250MHz



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 18.NOV.2024 03:51:17

Power Spectral Density

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	1.71	0.50	2.21	11	Pass
		5200	1.56	0.50	2.06	11	Pass
		5240	2.56	0.50	3.06	11	Pass
802.11ac20	Chain 0	5180	1.34	0.14	1.48	11	Pass
		5200	1.49	0.14	1.63	11	Pass
		5240	2.12	0.14	2.26	11	Pass
802.11ac40	Chain 0	5190	-1.60	0.14	-1.46	11	Pass
		5230	-0.94	0.14	-0.80	11	Pass
802.11ac80	Chain 0	5210	-4.59	0.11	-4.48	11	Pass
802.11ax20	Chain 0	5180	0.09	0.24	0.33	11	Pass
		5200	0.09	0.24	0.33	11	Pass
		5240	0.90	0.24	1.14	11	Pass
802.11ax40	Chain 0	5190	-3.06	0.24	-2.82	11	Pass
		5230	-2.52	0.24	-2.28	11	Pass
802.11ax80	Chain 0	5210	-5.51	0.18	-5.33	11	Pass

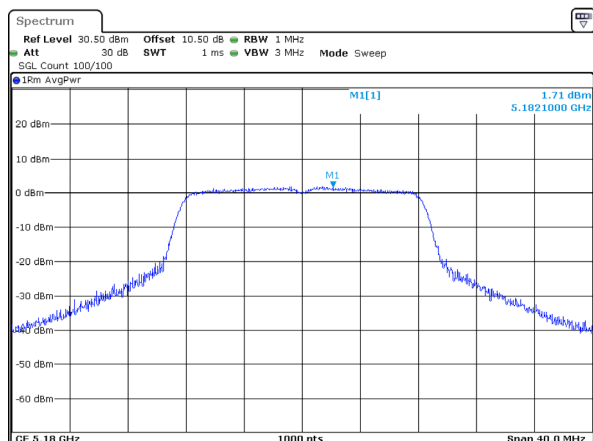
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	Chain 0	5745	-1.22	0.41	-0.81	30	Pass
		5785	-2.55	0.41	-2.14	30	Pass
		5825	-3.58	0.41	-3.17	30	Pass
802.11ac20	Chain 0	5745	-1.51	0.18	-1.33	30	Pass
		5785	-2.64	0.18	-2.46	30	Pass
		5825	-3.61	0.18	-3.43	30	Pass
802.11ac40	Chain 0	5755	-4.80	0.19	-4.61	30	Pass
		5795	-5.76	0.19	-5.57	30	Pass
802.11ac80	Chain 0	5775	-8.04	0.19	-7.85	30	Pass
802.11ax20	Chain 0	5745	-2.32	0.13	-2.19	30	Pass
		5785	-3.54	0.13	-3.41	30	Pass
		5825	-4.36	0.13	-4.23	30	Pass
802.11ax40	Chain 0	5755	-5.32	0.16	-5.16	30	Pass
		5795	-6.51	0.16	-6.35	30	Pass
802.11ax80	Chain 0	5775	-8.42	0.25	-8.17	30	Pass

Result = Reading + Duty Cycle Factor

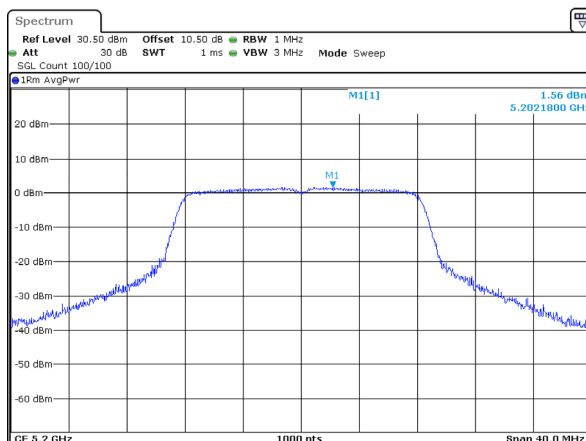
5150-5250MHz

802.11a_5180MHz



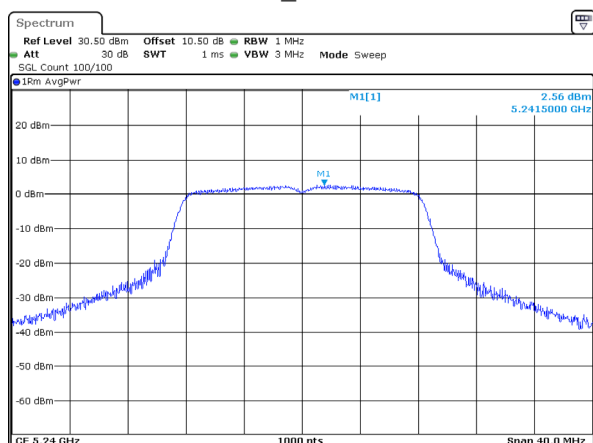
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 09:46:43

802.11a_5200MHz



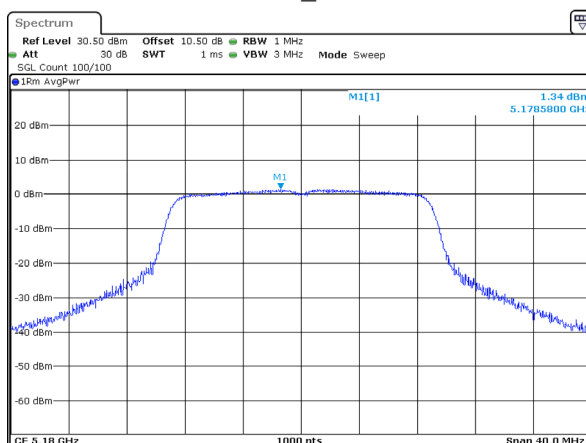
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Date: 19.NOV.2024 09:47:32

802.11a_5240MHz



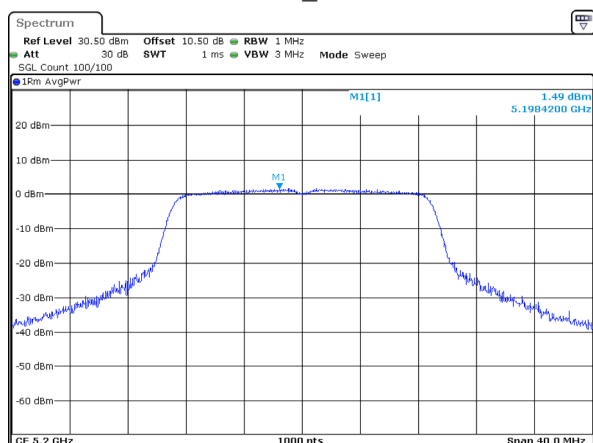
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Date: 19.NOV.2024 09:48:48

802.11ac20_5180MHz



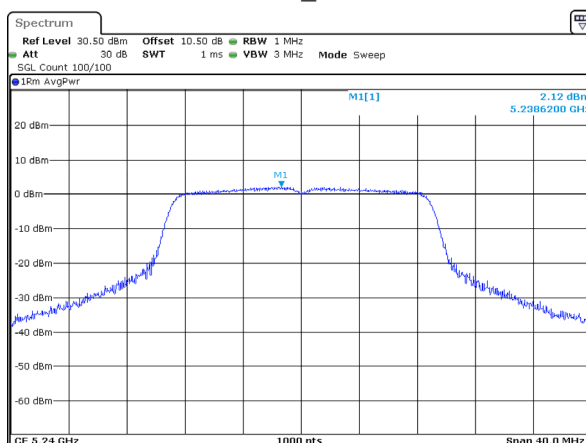
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Date: 19.NOV.2024 09:49:43

802.11ac20_5200MHz



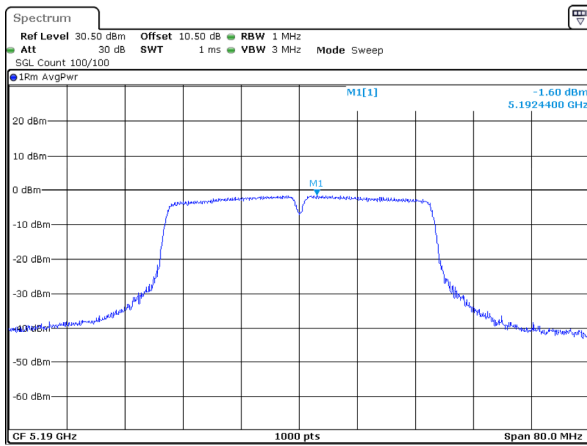
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 09:51:45

802.11ac20_5240MHz



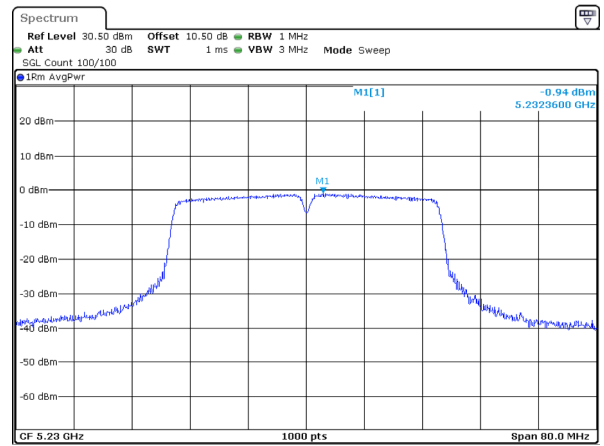
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Date: 19.NOV.2024 09:52:34

802.11ac40_5190MHz



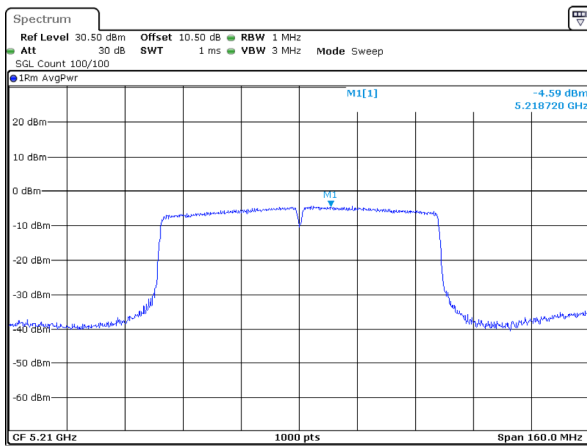
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Date: 19.NOV.2024 09:53:27

802.11ac40_5230MHz



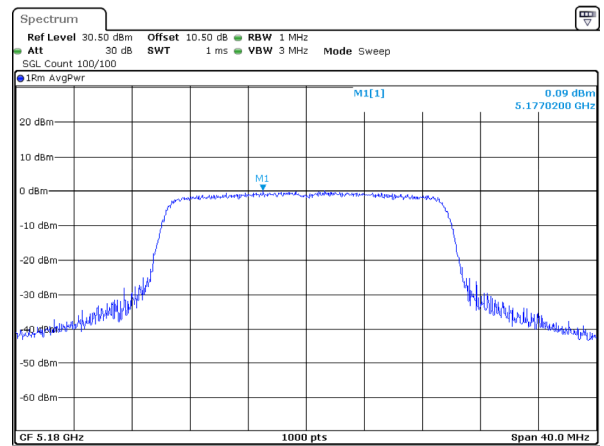
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 09:54:18

802.11ac80_5210MHz



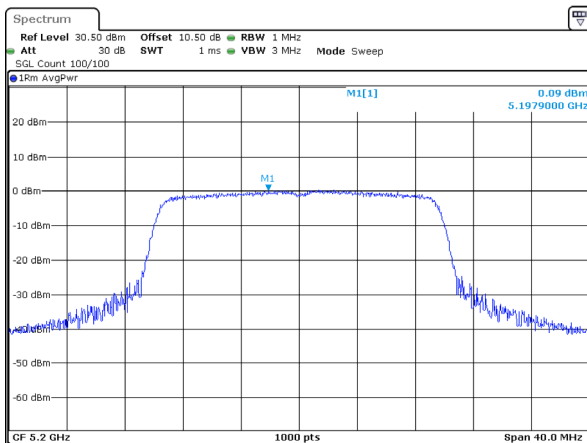
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Date: 19.NOV.2024 09:55:11

802.11ax20_5180MHz_RU_Full



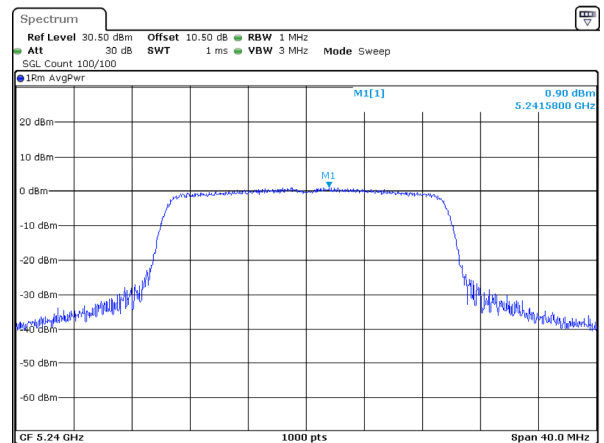
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Date: 19.NOV.2024 09:56:15

802.11ax20_5200MHz_RU_Full



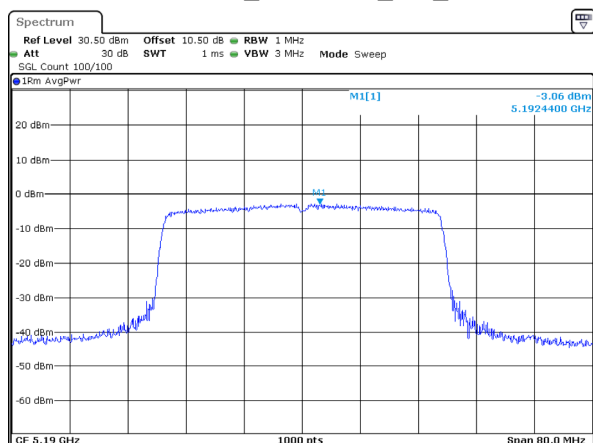
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802.11ax20_5240MHz_RU_Full



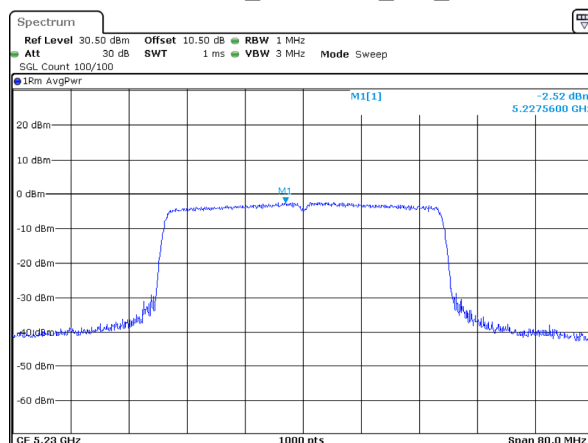
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 09:58:18

802.11ax40_5190MHz_RU_Full



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 09:59:13

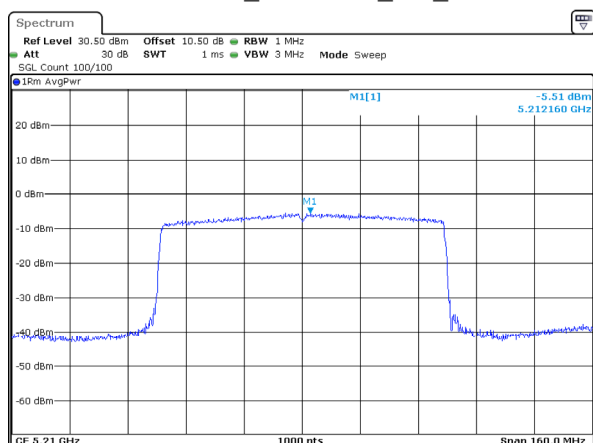
802.11ax40_5230MHz_RU_Full



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:00:07

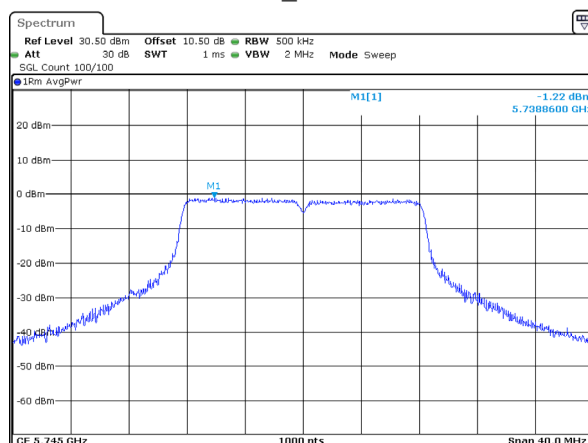
5725-5850MHz

802.11ax80_5210MHz_RU_Full



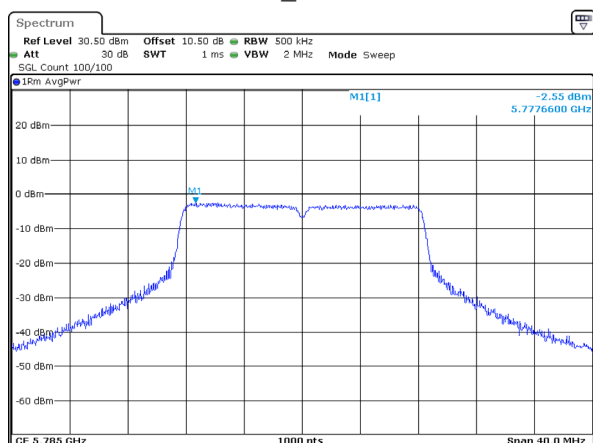
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Date: 19.NOV.2024 10:00:58

802.11a_5745MHz



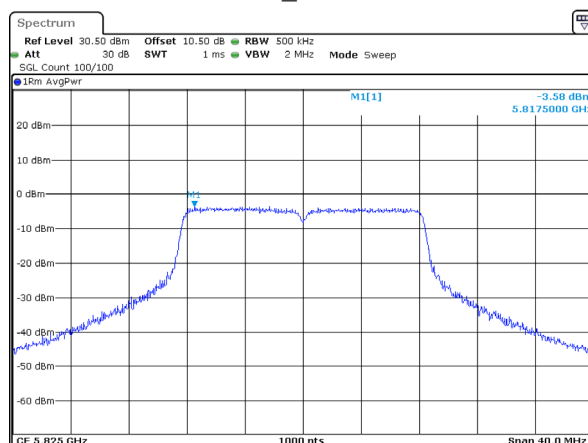
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:01:54

802.11a_5785MHz



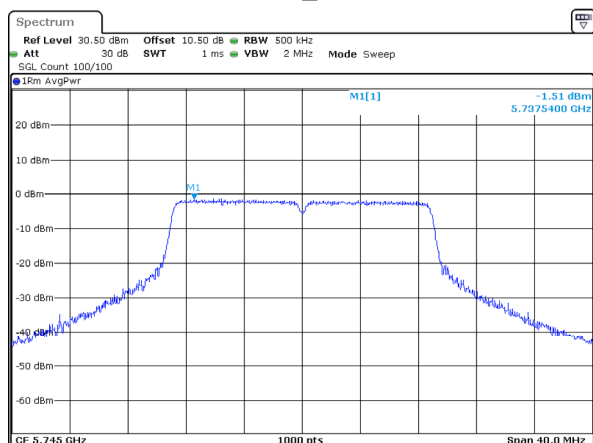
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Date: 19.NOV.2024 10:02:43

802.11a_5825MHz

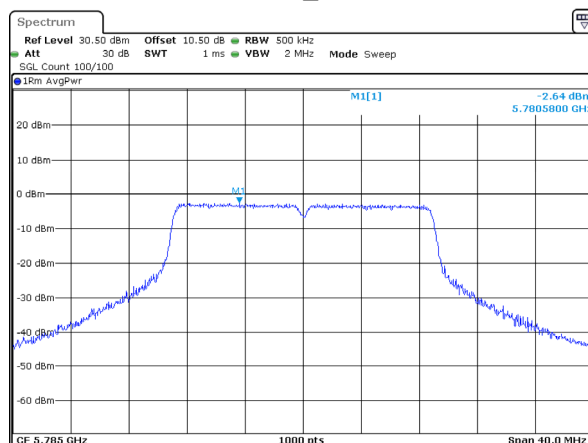


ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:03:32

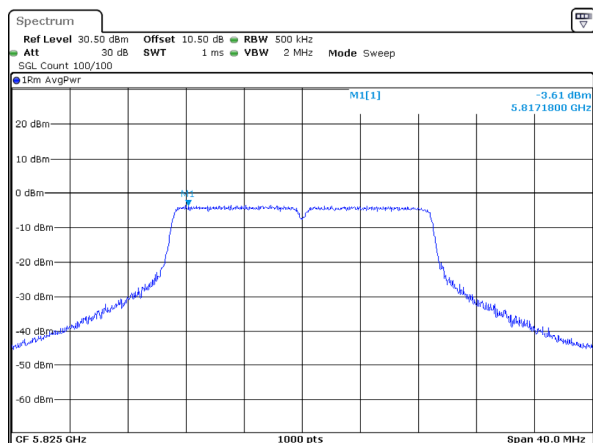
802.11ac20_5745MHz



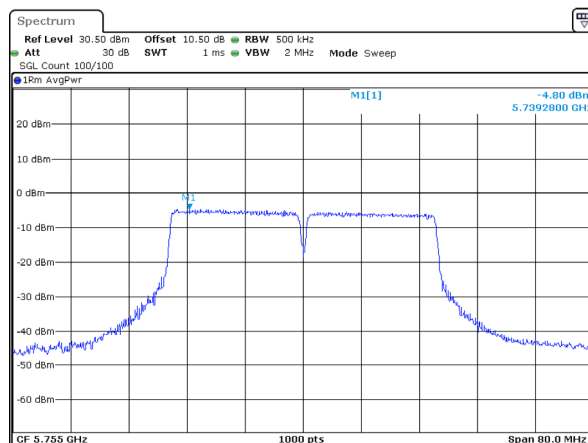
802.11ac20_5785MHz



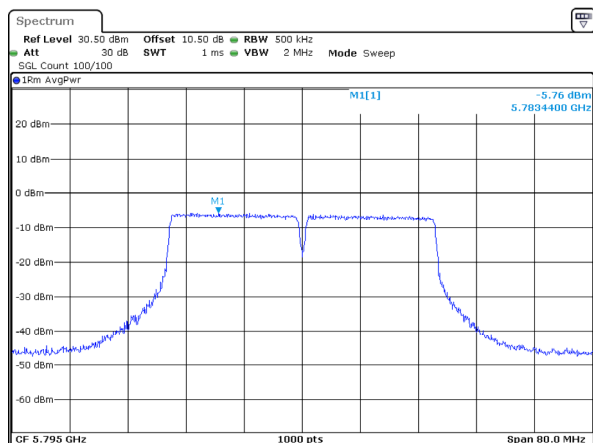
802.11ac20_5825MHz



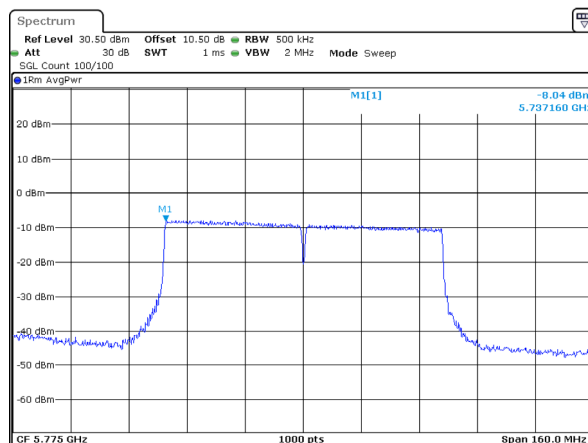
802.11ac40_5755MHz



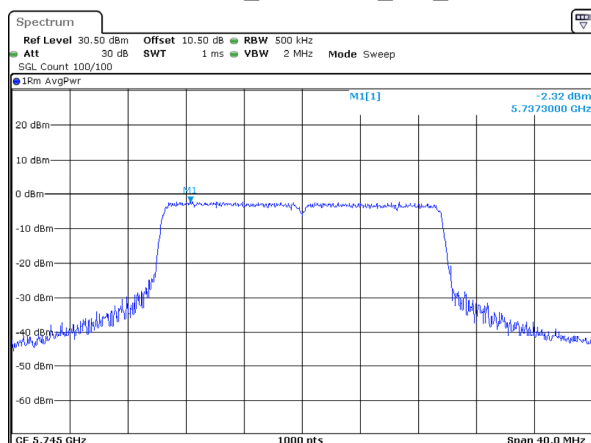
802.11ac40_5795MHz



802.11ac80_5775MHz

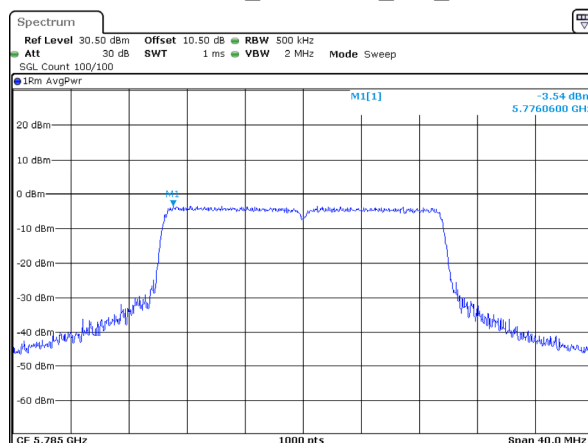


802.11ax20_5745MHz_RU_Full



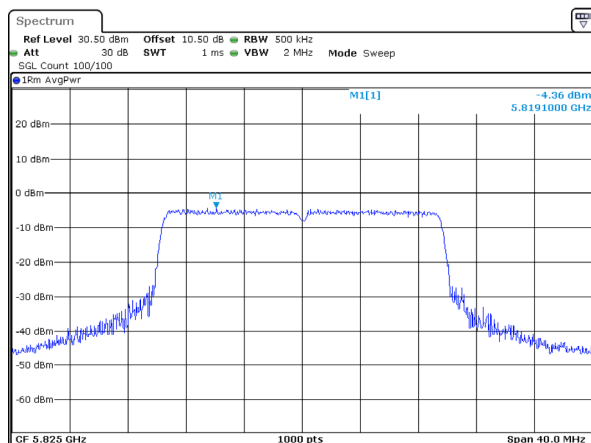
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802.11ax20_5785MHz_RU_Full



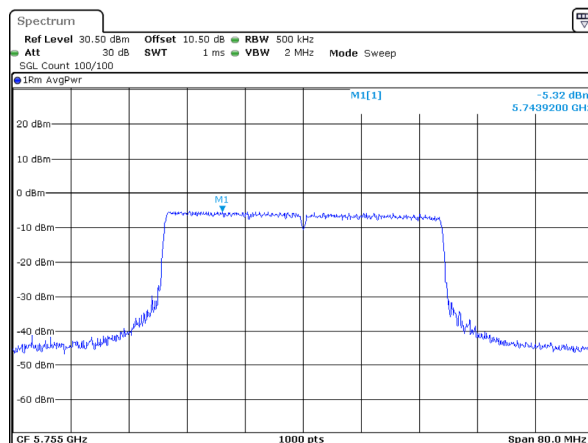
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802.11ax20_5825MHz_RU_Full



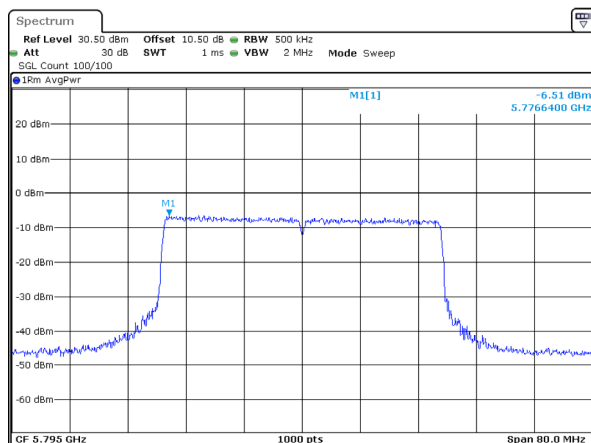
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:11:06

802.11ax40_5755MHz_RU_Full



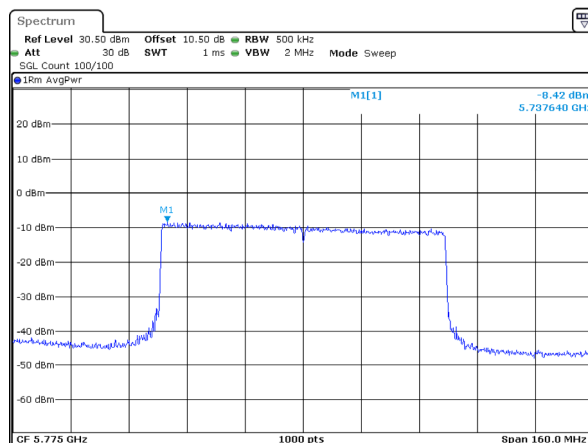
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:12:02

802.11ax40_5795MHz_RU_Full



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:12:56

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 19.NOV.2024 10:13:49

Duty Cycle

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5200	1.396	1.568	89.03	0.50	716	0.716
802.11ac20	Chain 0	5200	5.054	5.219	96.84	0.14	198	0.198
802.11ac40	Chain 0	5190	4.891	5.050	96.85	0.14	204	0.204
802.11ac80	Chain 0	5210	4.510	4.625	97.51	0.11	222	0.222
802.11ax20	Chain 0	5200	3.876	4.100	94.54	0.24	258	0.258
802.11ax40	Chain 0	5190	3.820	4.036	94.65	0.24	262	0.262
802.11ax80	Chain 0	5210	3.668	3.819	96.05	0.18	273	0.273

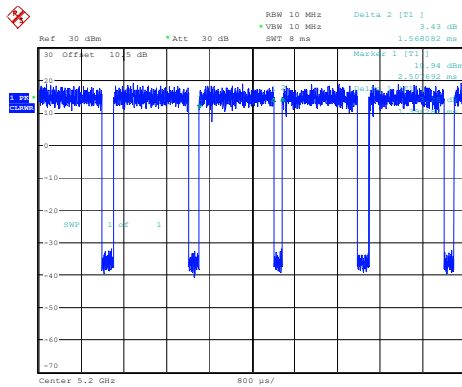
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5785	1.380	1.515	91.09	0.41	725	0.725
802.11ac20	Chain 0	5785	5.040	5.250	96.00	0.18	198	0.198
802.11ac40	Chain 0	5755	4.865	5.081	95.75	0.19	206	0.206
802.11ac80	Chain 0	5775	4.535	4.734	95.80	0.19	221	0.221
802.11ax20	Chain 0	5785	3.842	3.960	97.02	0.13	260	0.260
802.11ax40	Chain 0	5755	3.855	3.998	96.42	0.16	259	0.259
802.11ax80	Chain 0	5775	3.688	3.910	94.32	0.25	271	0.271

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

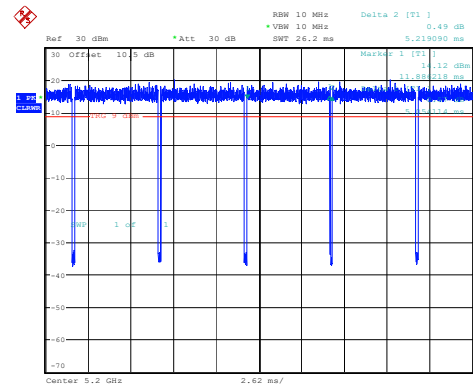
5150-5250MHz

802.11a_5200MHz
1.396ms,1.568ms



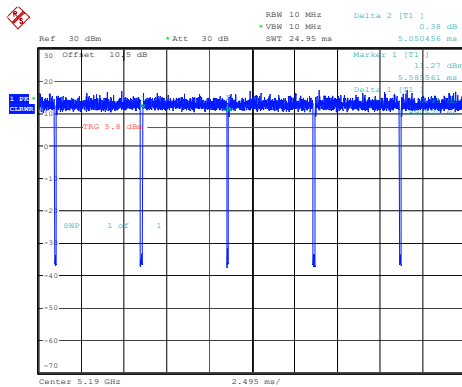
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 10:30:19

802.11ac20_5200MHz
5.054ms,5.219ms



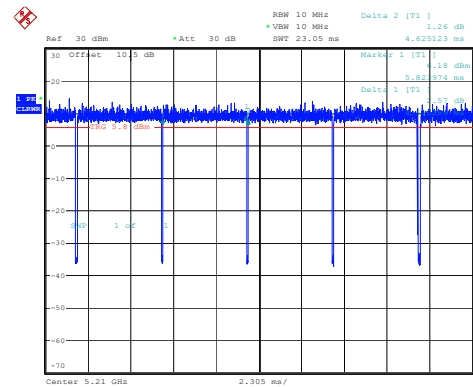
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 10:32:45

802.11ac40_5190MHz
4.891ms,5.050ms



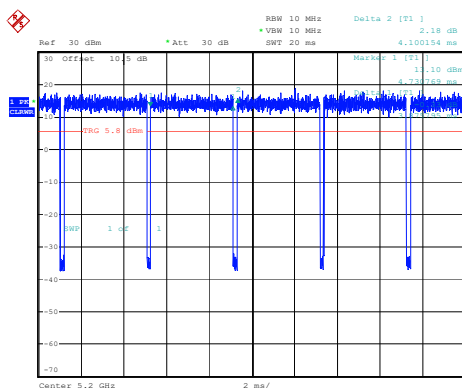
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 10:36:47

802.11ac80_5210MHz
4.510ms,4.625ms



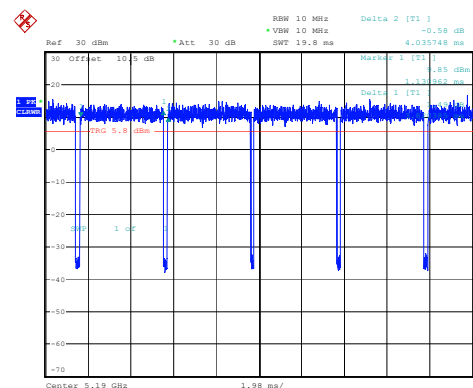
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 10:39:23

802.11ax20_5200MHz_RU_Full
3.876ms,4.100ms



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:01:45

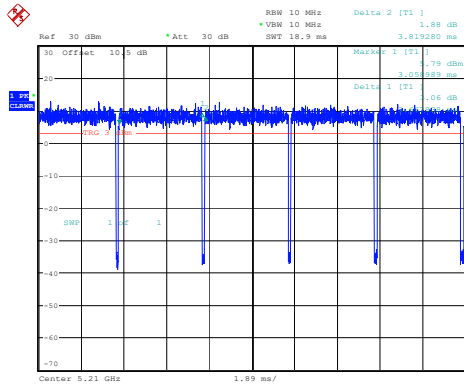
802.11ax40_5190MHz_RU_Full
3.820ms,4.036ms



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:03:47

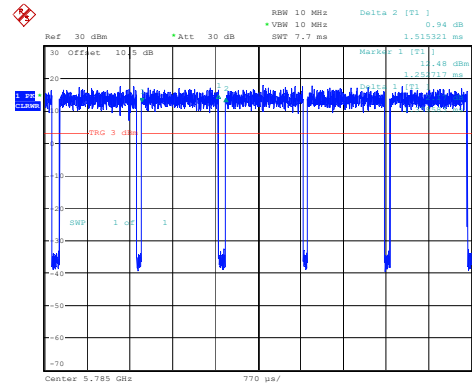
5725-5850MHz

802.11ax80_5210MHz_RU_Full
3.668ms,3.819ms



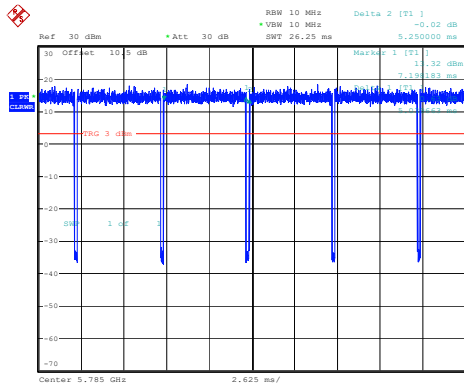
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:07:08

802.11a_5785MHz
1.380ms,1.515ms



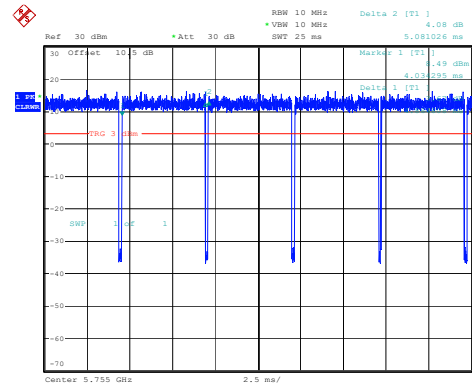
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:09:10

802.11ac20_5785MHz
5.040ms,5.250ms



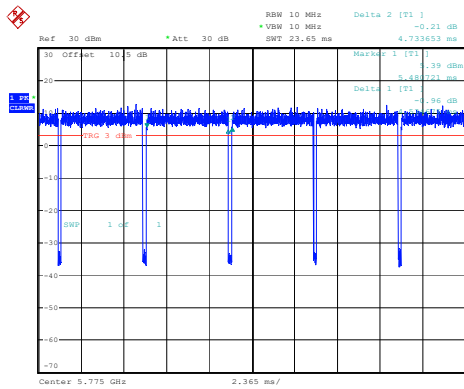
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:11:49

802.11ac40_5755MHz
4.865ms,5.081ms



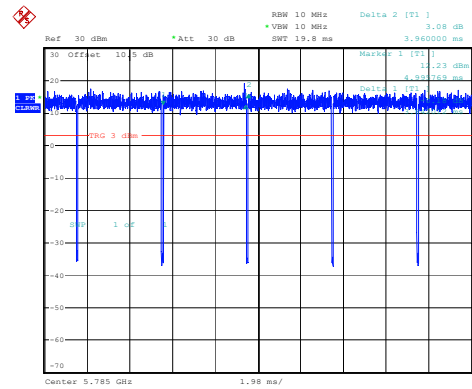
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:13:53

802.11ac80_5775MHz
4.535ms,4.734ms



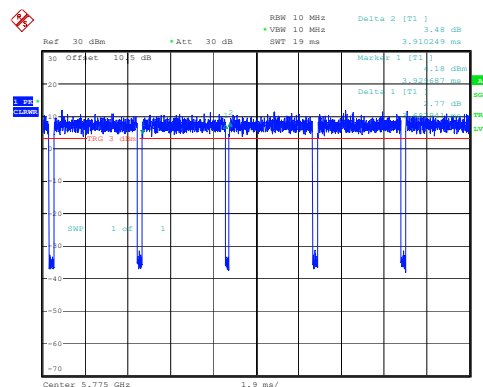
ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:15:44

802.11ax20_5785MHz_RU_Full
3.842ms,3.960ms



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:18:00

802.11ax80_5775MHz_RU_Full
3.688ms,3.910ms



ProjectNo.:2401Y99995E-RF Tester:Rainbow Zhu
Date: 16.NOV.2024 11:21:33