

Appendix A

Test Information:

Sample No.:	2VID-7	Test Date:	2025/01/03~2025/05/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.4~25.5	Relative Humidity: (%)	44~47	ATM Pressure: (kPa)	101.2~101.5
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Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	19.970
		5200	20.442
		5240	20.443
	Chain 1	5180	19.970
		5200	20.645
		5240	20.798
802.11ac20	Chain 0	5180	20.544
		5200	20.544
		5240	20.595
	Chain 1	5180	20.090
		5200	20.291
		5240	20.190
802.11ac40	Chain 0	5190	41.141
		5230	41.341
	Chain 1	5190	40.240
		5230	40.340

6dB Emission Bandwidth

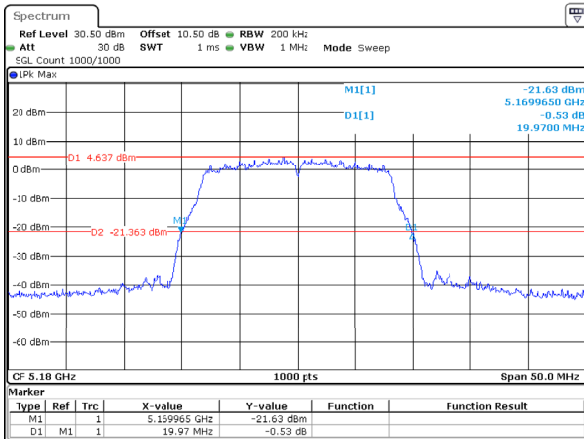
5725-5850MHz

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	15.165	0.5	Pass
	Chain 1	5745	15.215	0.5	Pass
		5785	15.215	0.5	Pass
		5825	15.215	0.5	Pass
802.11ac20	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	15.215	0.5	Pass

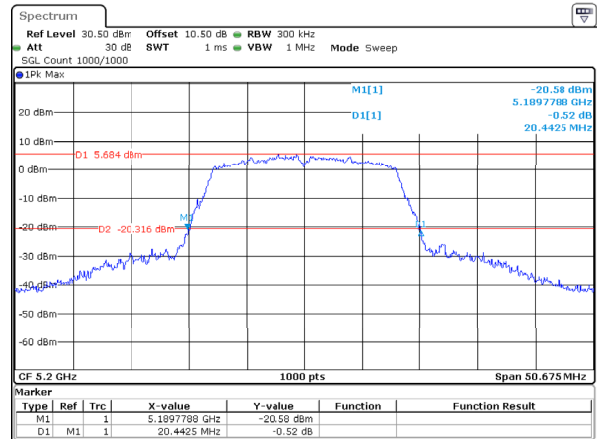
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11ac20	Chain 1	5825	15.215	0.5	Pass
802.11ac40	Chain 0	5755	35.335	0.5	Pass
		5795	35.335	0.5	Pass
	Chain 1	5755	35.335	0.5	Pass
		5795	35.335	0.5	Pass

5150-5250MHz

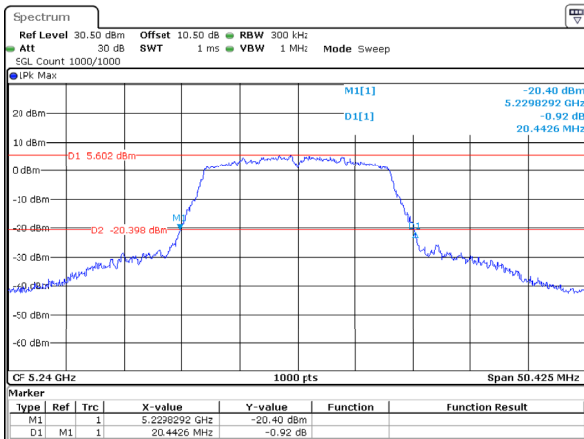
802.11a_5180MHz_Chain 0



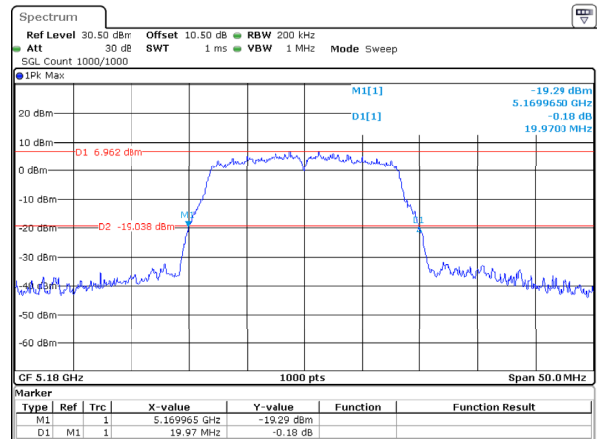
802.11a_5200MHz_Chain 0



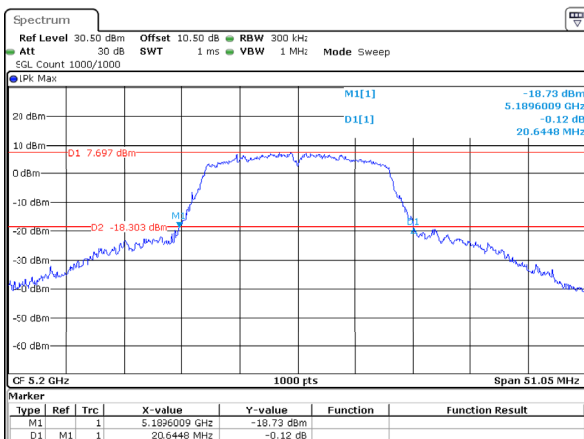
802.11a_5240MHz_Chain 0



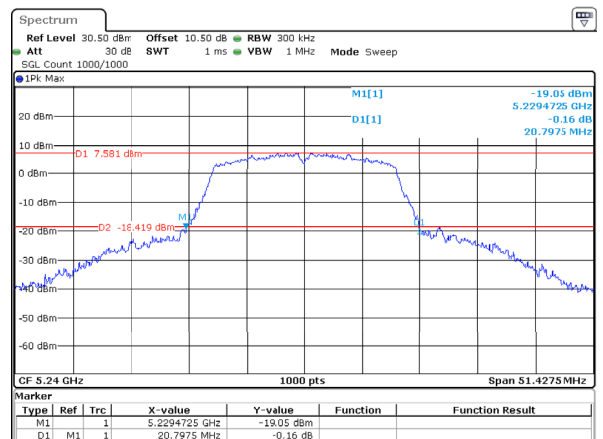
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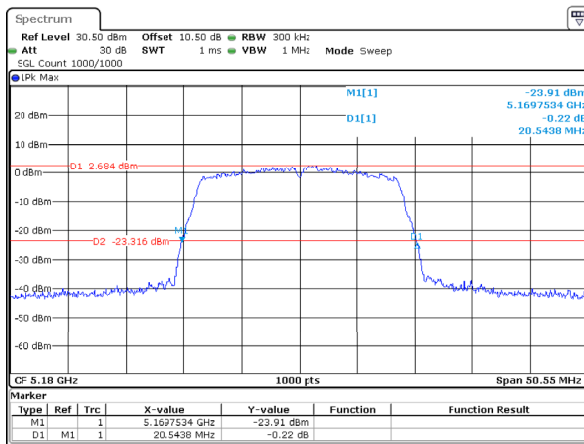
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802.11a_5240MHz_Chain 1

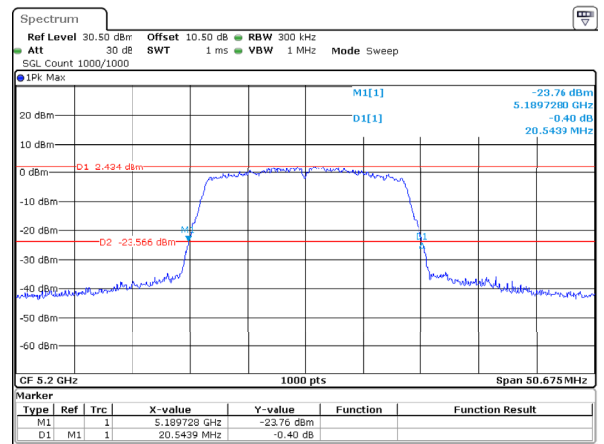


802.11ac20_5180MHz_Chain 0



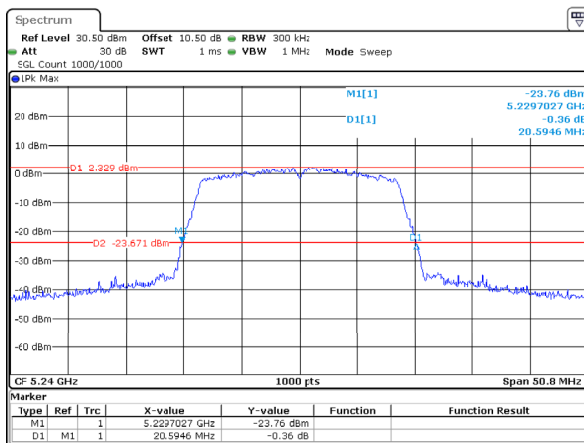
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802.11ac20_5200MHz_Chain 0



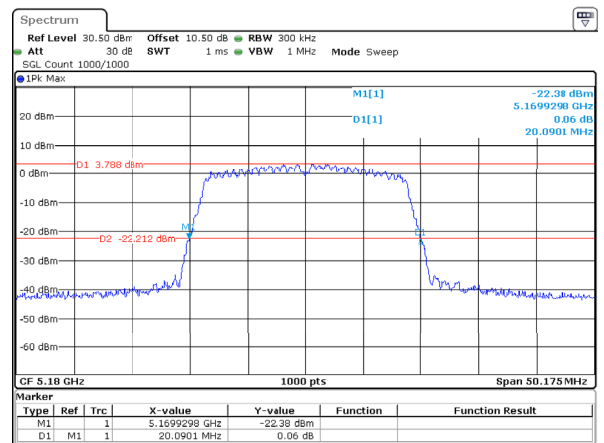
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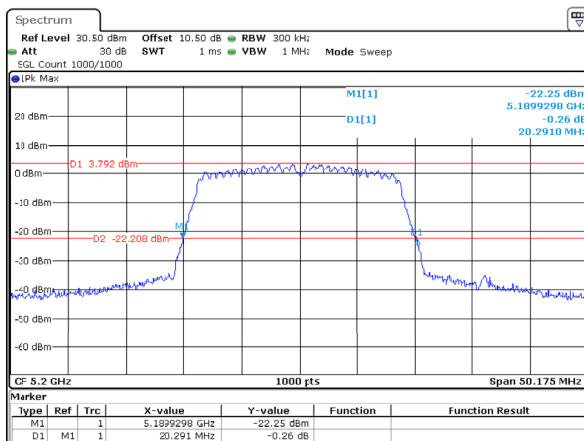
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802.11ac20_5180MHz_Chain 1



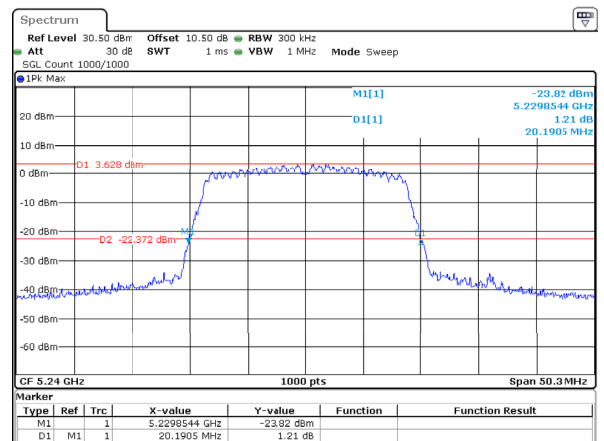
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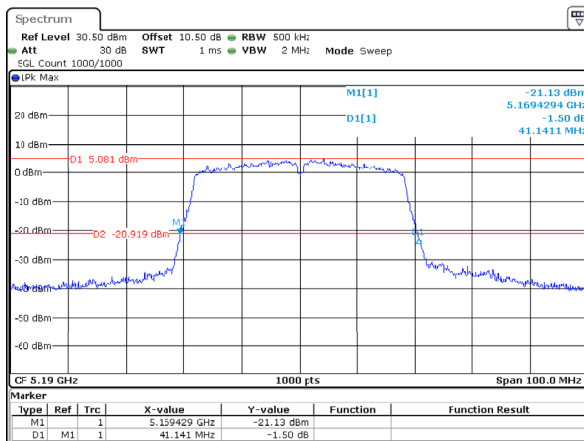
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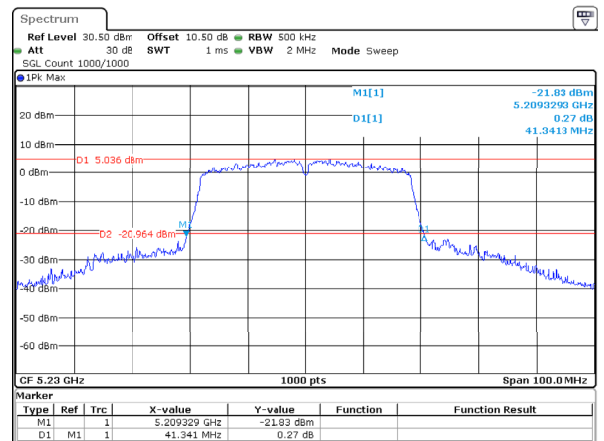
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802.11ac40_5190MHz_Chain 0



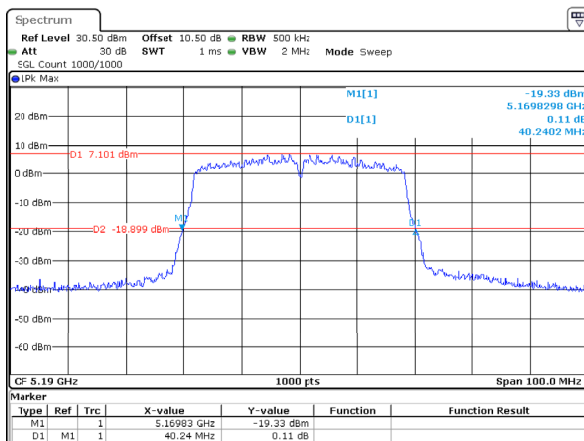
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802.11ac40_5230MHz_Chain 0



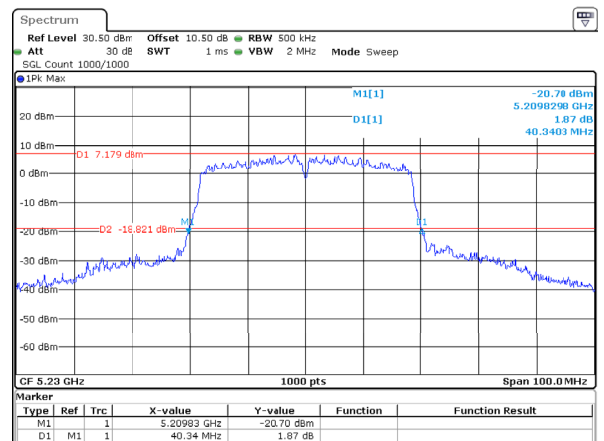
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802.11ac40_5190MHz_Chain 1



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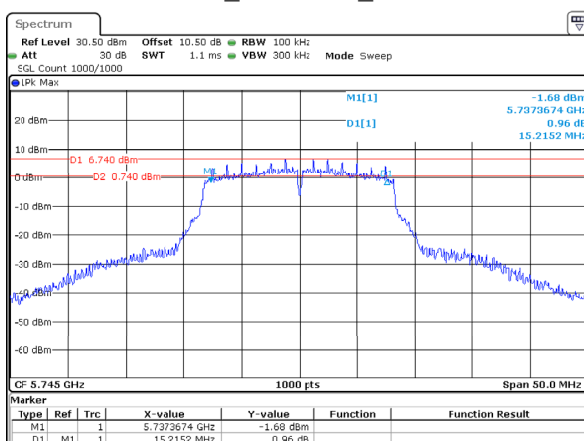
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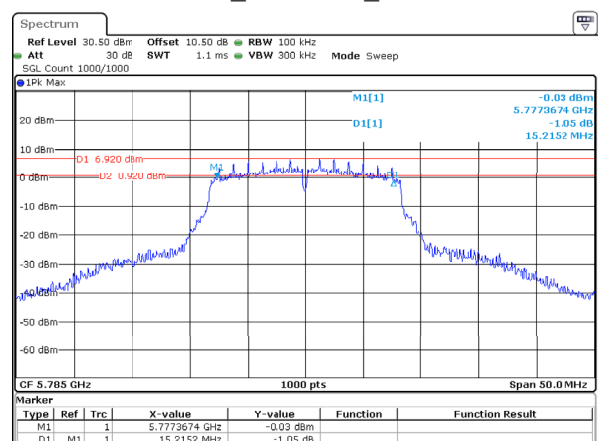
5725-5850MHz

802.11a_5745MHz_Chain 0



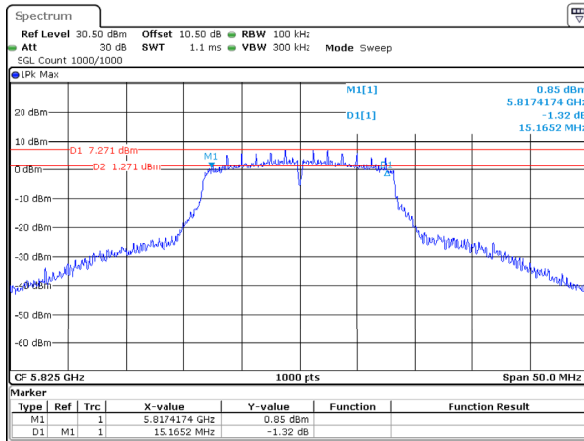
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802.11a_5785MHz_Chain 0



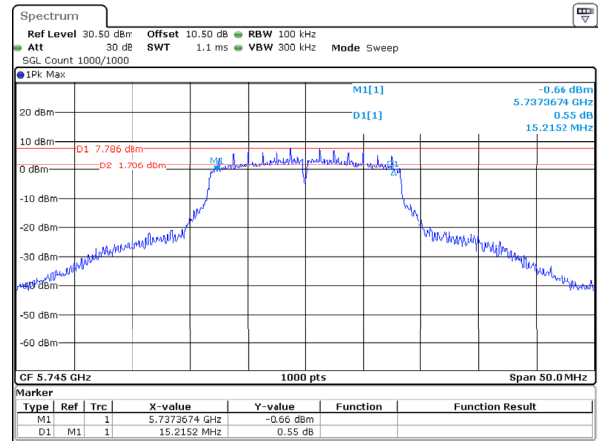
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802.11a_5825MHz_Chain 0



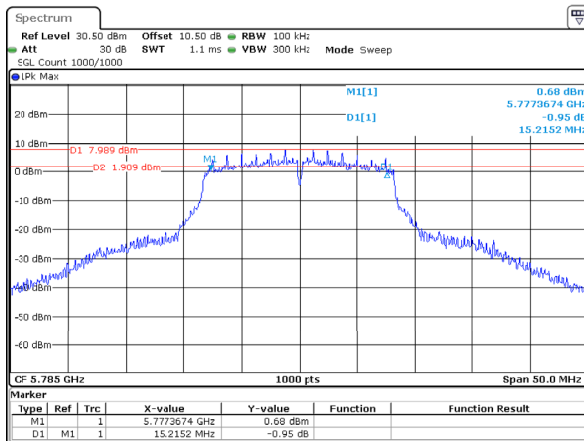
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802.11a_5745MHz_Chain 1



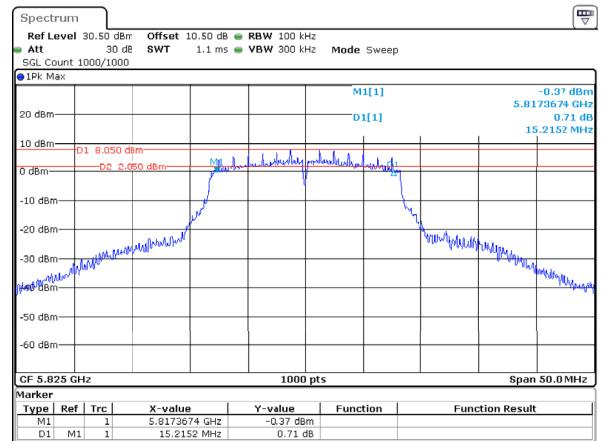
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802.11a_5785MHz_Chain 1



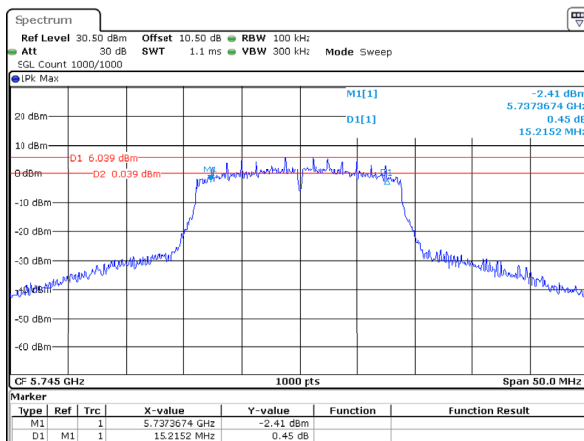
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802.11a_5825MHz_Chain 1



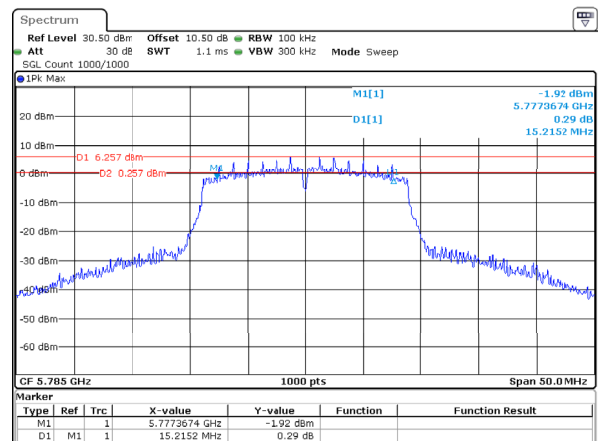
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802.11ac20_5745MHz_Chain 0



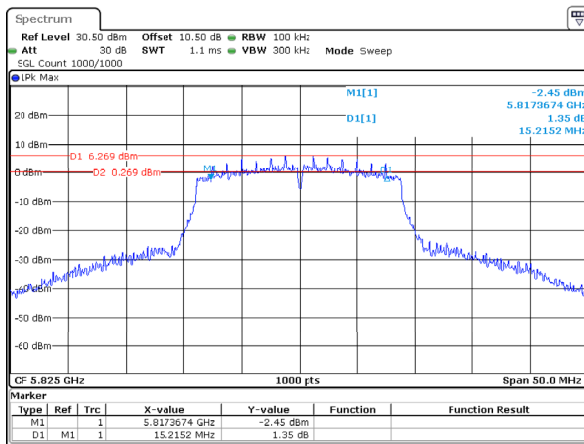
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802.11ac20_5785MHz_Chain 0



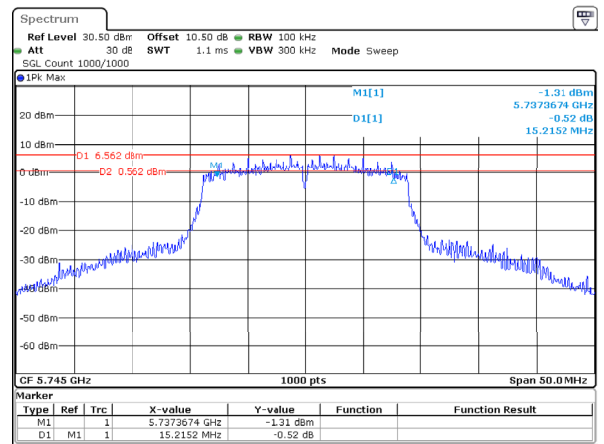
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802.11ac20_5825MHz_Chain 0



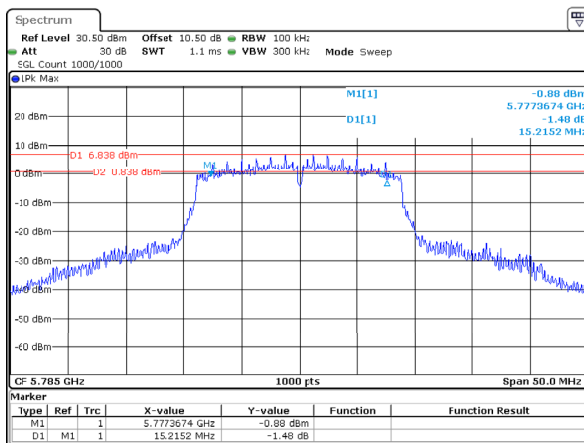
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802.11ac20_5745MHz_Chain 1



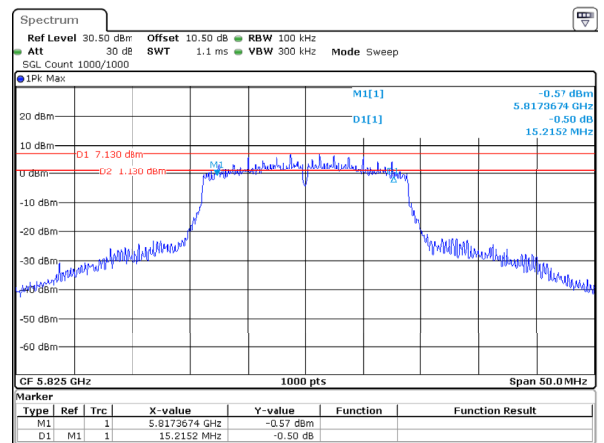
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802.11ac20_5785MHz_Chain 1



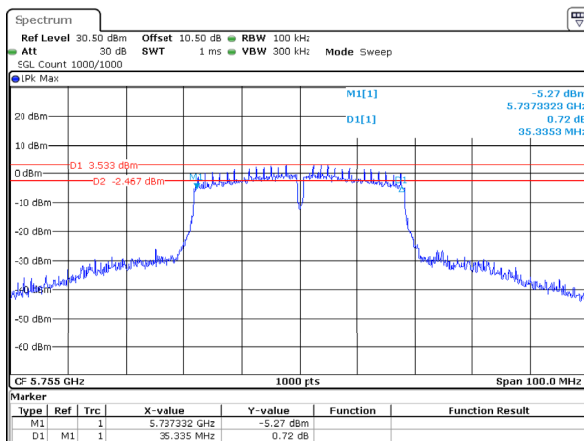
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802.11ac20_5825MHz_Chain 1



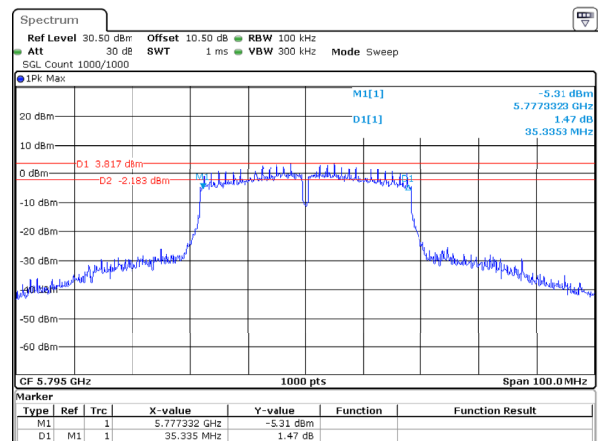
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802.11ac40_5755MHz_Chain 0



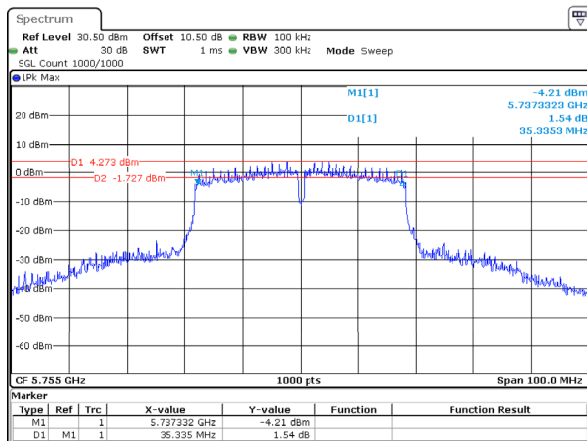
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802.11ac40_5795MHz_Chain 0



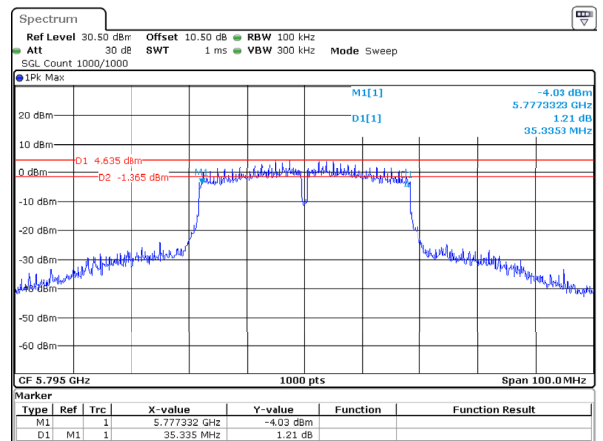
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 11:20:57

802.11ac40_5755MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:34:45

802.11ac40_5795MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:38:15

99% Occupied Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.500
		5200	16.550
		5240	16.550
	Chain 1	5180	16.550
		5200	16.650
		5240	16.650
802.11ac20	Chain 0	5180	17.600
		5200	17.600
		5240	17.600
	Chain 1	5180	17.600
		5200	17.600
		5240	17.600
802.11ac40	Chain 0	5190	36.100
		5230	36.200
	Chain 1	5190	36.100
		5230	36.200

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	16.650
		5785	16.600
		5825	16.700
	Chain 1	5745	16.800
		5785	16.700
		5825	16.700
802.11ac20	Chain 0	5745	17.650
		5785	17.650
		5825	17.650
	Chain 1	5745	17.700
		5785	17.700

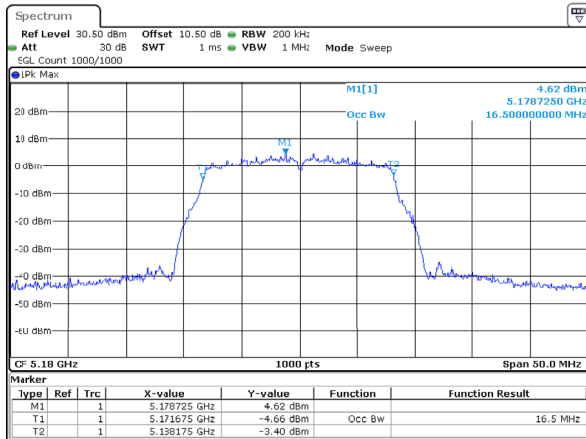
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11ac20	Chain 1	5825	17.700
802.11ac40	Chain 0	5755	36.300
		5795	36.300
	Chain 1	5755	36.300
		5795	36.200

Note:

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

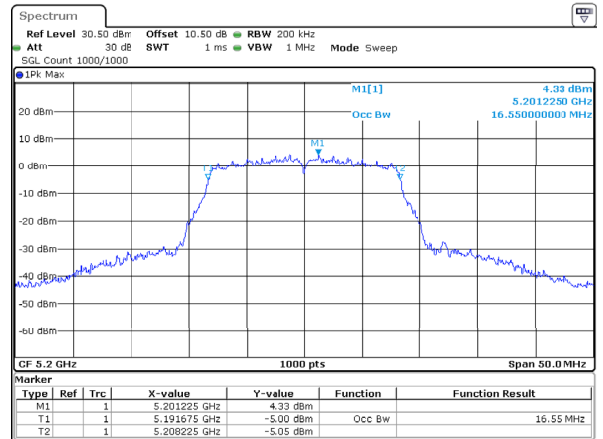
5150-5250MHz

802.11a_5180MHz_Chain 0



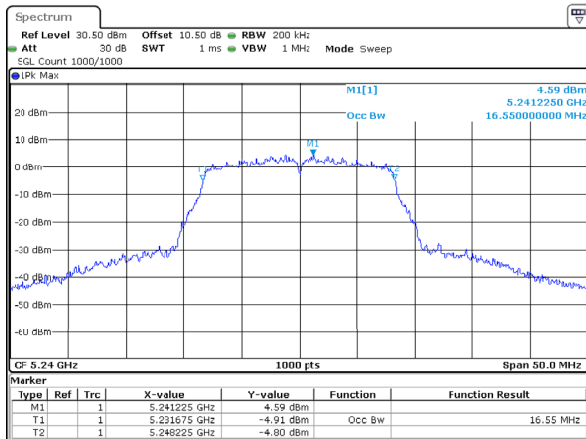
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802.11a_5200MHz_Chain 0



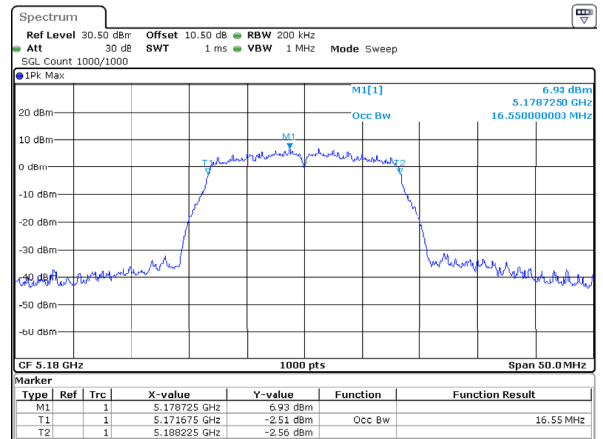
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Date: 7.JAN.2025 10:27:39

802.11a_5240MHz_Chain 0



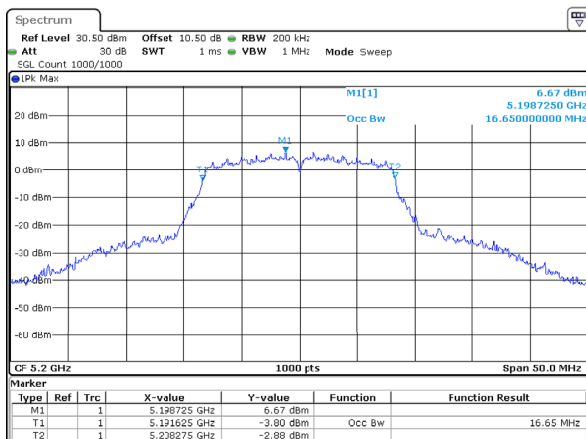
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802.11a_5180MHz_Chain 1



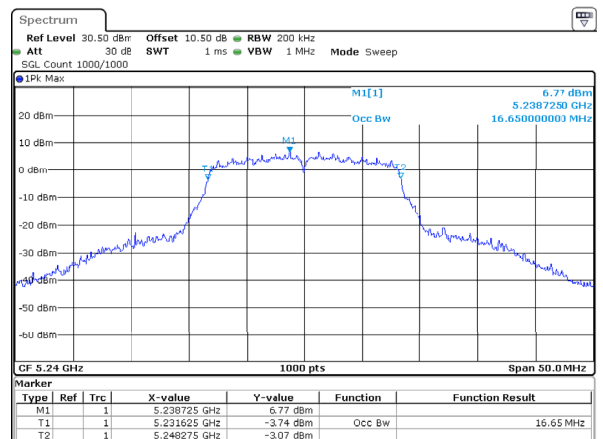
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802.11a_5200MHz_Chain 1



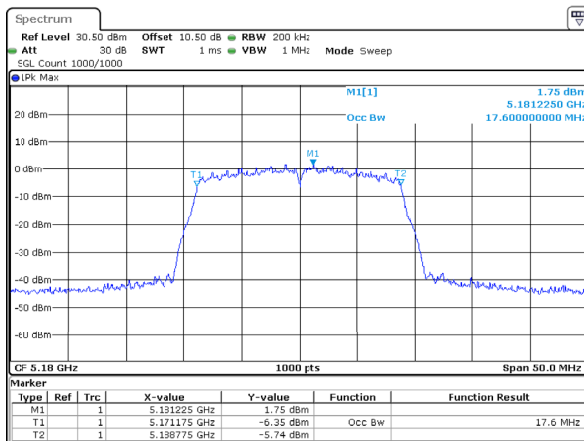
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802.11a_5240MHz_Chain 1



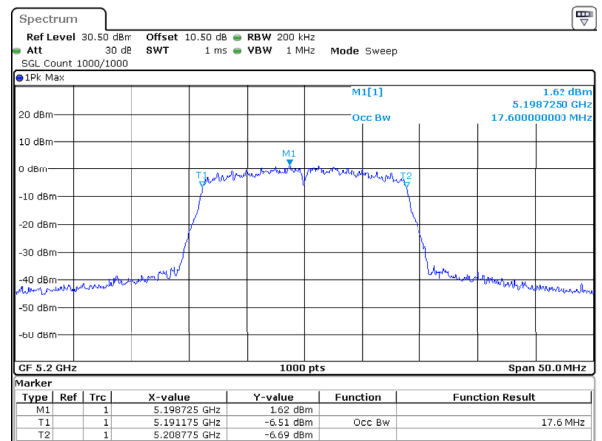
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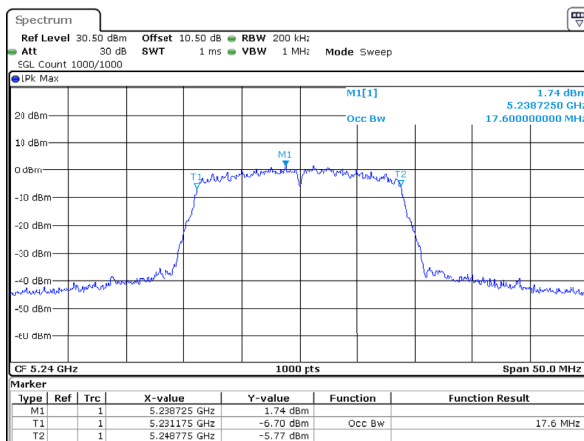
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802.11ac20_5200MHz_Chain 0



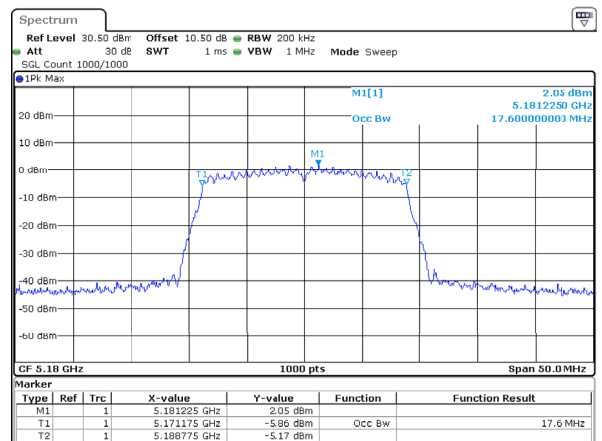
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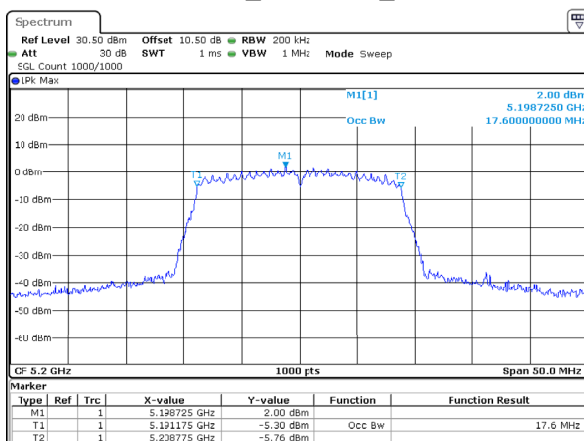
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Date: 7.JAN.2025 10:49:15

802.11ac20_5180MHz_Chain 1



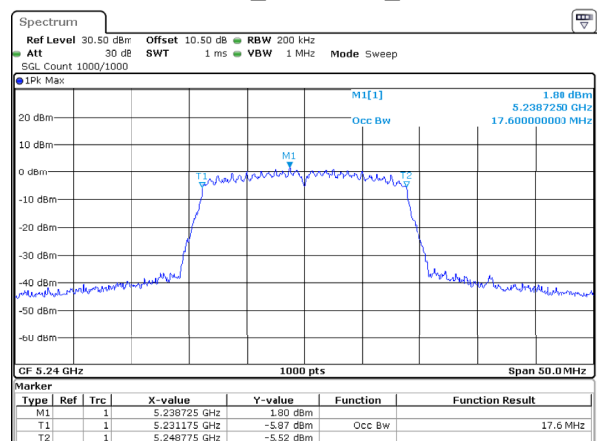
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802.11ac20_5200MHz_Chain 1



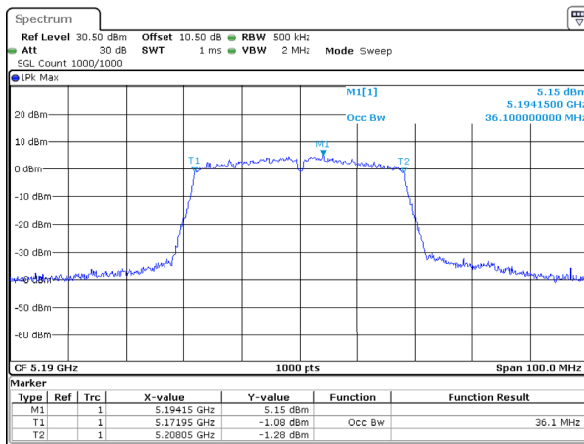
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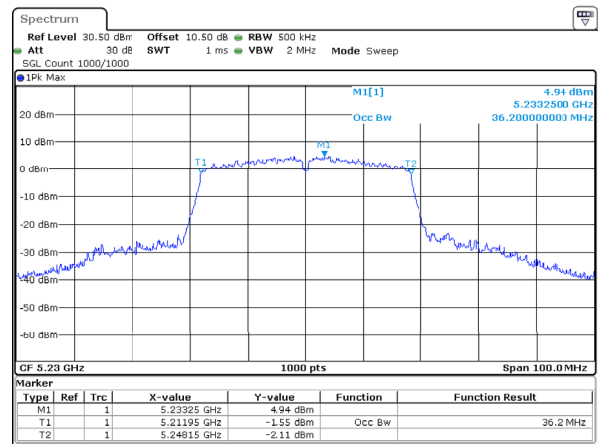


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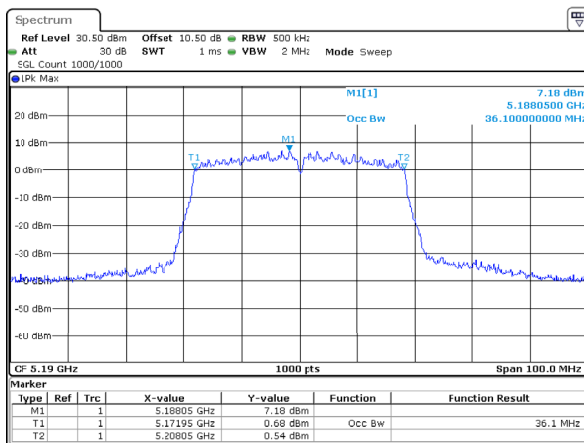
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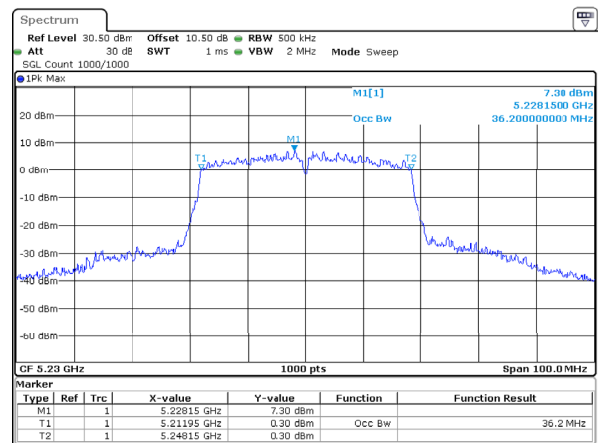
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802.11ac40_5190MHz_Chain 1

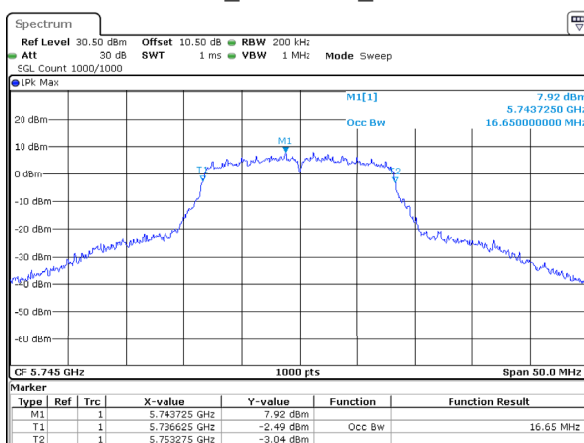


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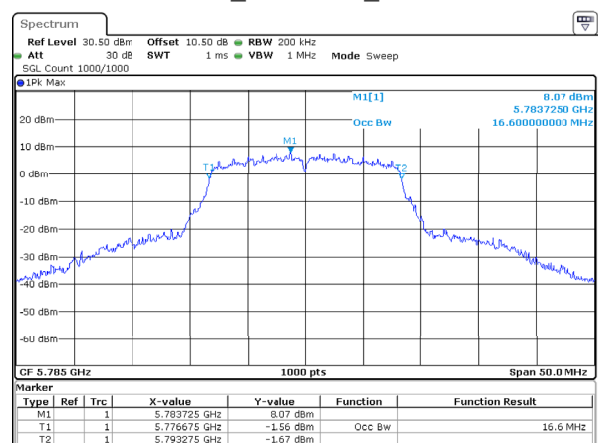


5725-5850MHz

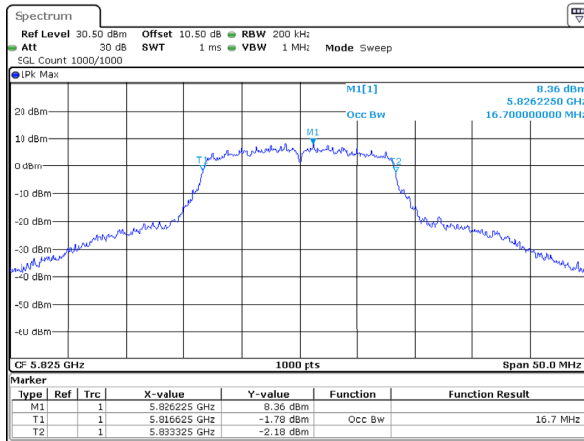
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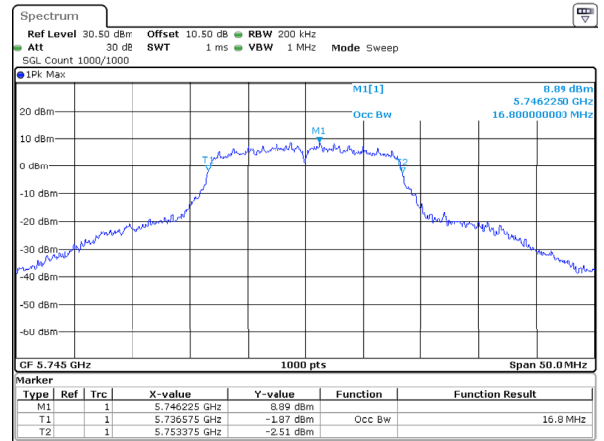
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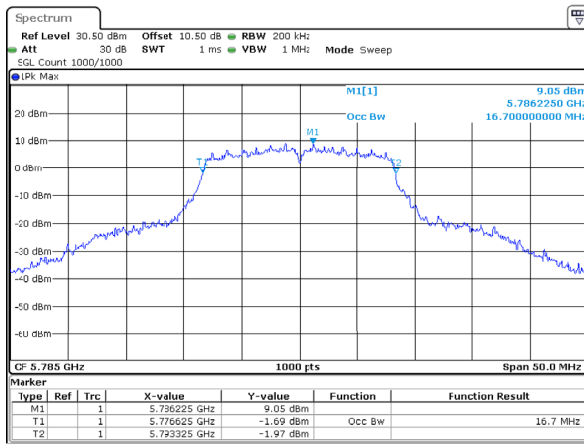
802.11a_5825MHz_Chain 0



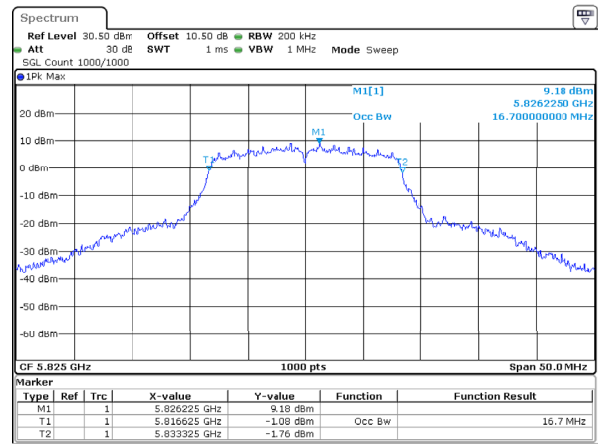
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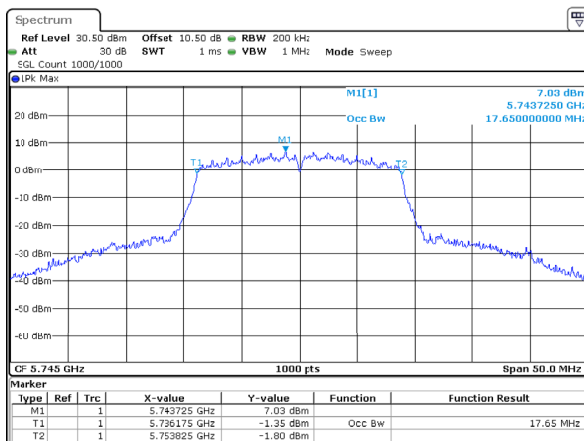
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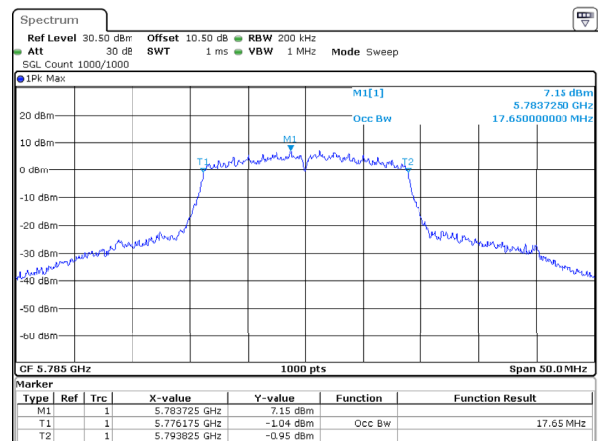
802.11a_5825MHz_Chain 1



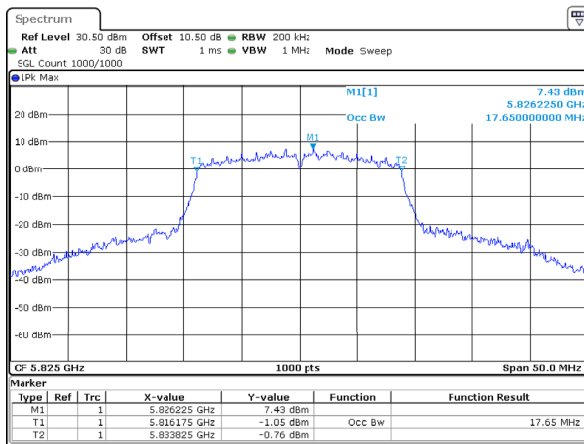
802.11ac20_5745MHz_Chain 0



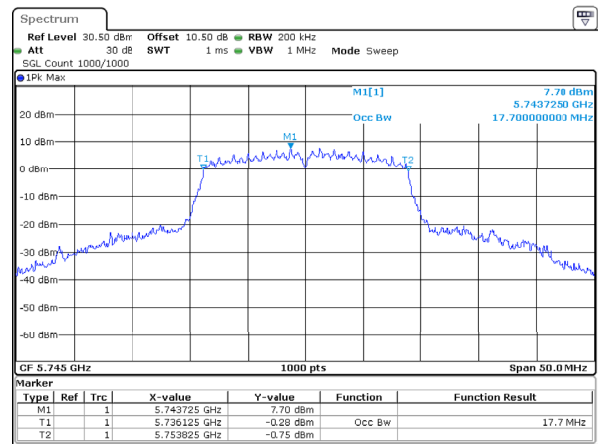
802.11ac20_5785MHz_Chain 0



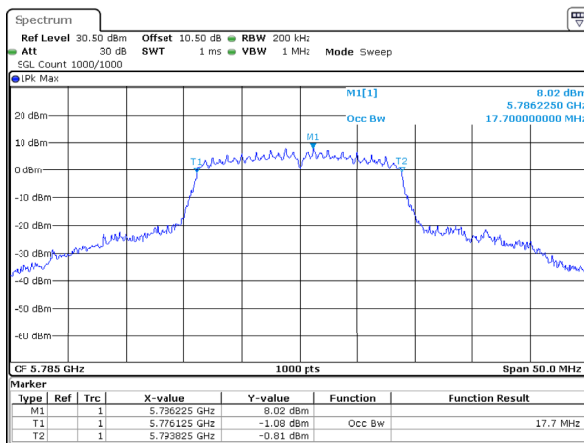
802.11ac20_5825MHz_Chain 0



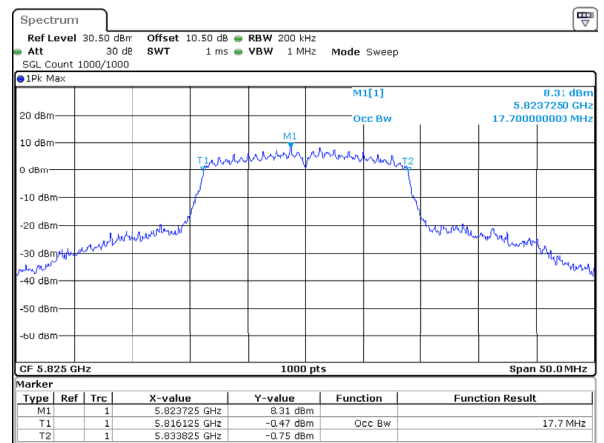
802.11ac20_5745MHz_Chain 1



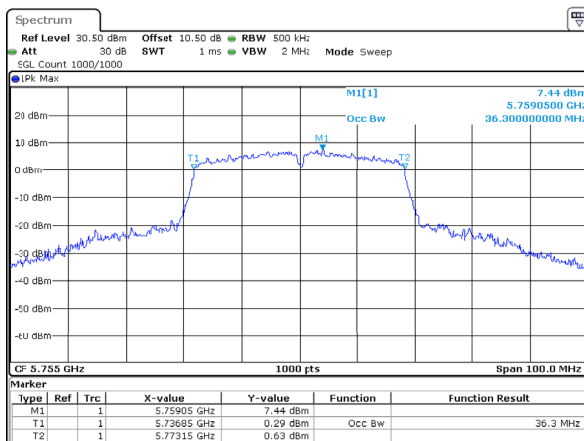
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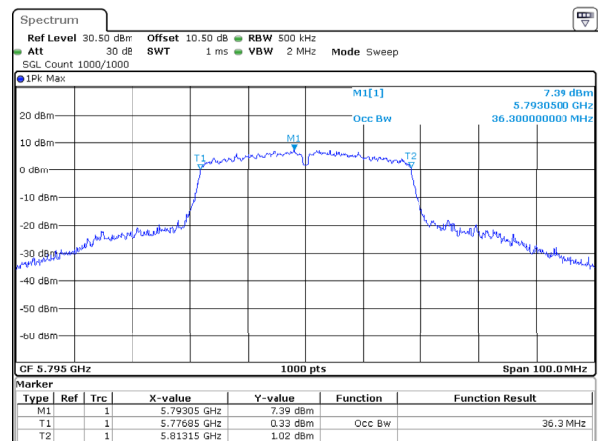
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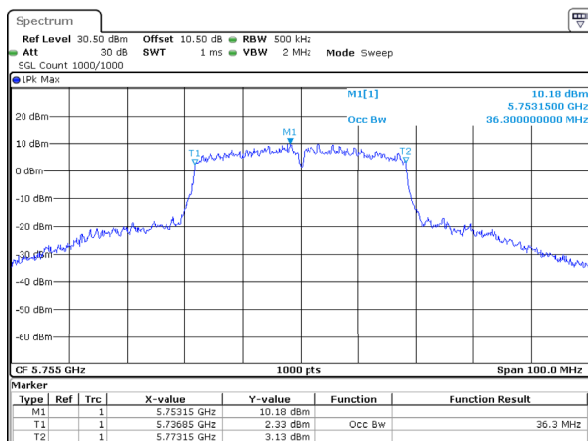
802.11ac40_5755MHz_Chain 0



802.11ac40_5795MHz_Chain 0

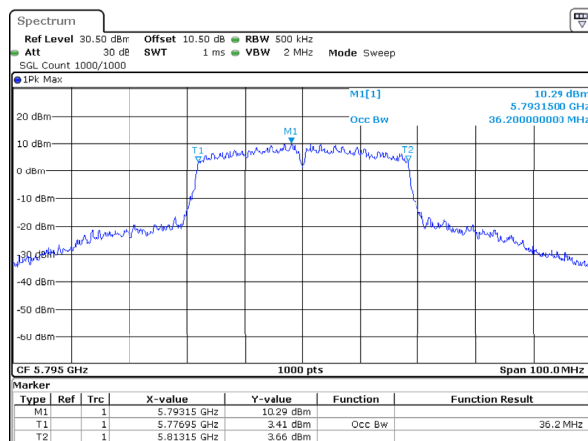


802.11ac40_5755MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:35:08

802.11ac40_5795MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:38:35

Maximum Conducted Output Power

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	10.64	24	Pass
		5200	10.34	24	Pass
		5240	10.25	24	Pass
	Chain 1	5180	12.51	24	Pass
		5200	12.29	24	Pass
		5240	12.19	24	Pass
802.11ac20	Chain 0	5180	6.71	24	Pass
		5200	6.44	24	Pass
		5240	6.33	24	Pass
	Chain 1	5180	6.67	24	Pass
		5200	6.45	24	Pass
		5240	6.36	24	Pass
	Chain 0+Chain 1	5180	9.59	24	Pass
		5200	9.46	24	Pass
		5240	9.36	24	Pass
802.11ac40	Chain 0	5190	8.78	24	Pass
		5230	8.65	24	Pass
	Chain 1	5190	8.77	24	Pass
		5230	8.63	24	Pass
	Chain 0+Chain 1	5190	11.79	24	Pass
		5230	11.65	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	17.0	30	Pass
		5785	17.3	30	Pass
		5825	17.41	30	Pass
	Chain 1	5745	17.88	30	Pass
		5785	17.99	30	Pass
		5825	18.19	30	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11ac20	Chain 0	5745	16.07	30	Pass
		5785	16.2	30	Pass
		5825	16.43	30	Pass
	Chain 1	5745	16.84	30	Pass
		5785	17.07	30	Pass
		5825	17.34	30	Pass
	Chain 0+Chain 1	5745	19.48	30	Pass
		5785	19.67	30	Pass
		5825	19.92	30	Pass
802.11ac40	Chain 0	5755	16.44	30	Pass
		5795	16.63	30	Pass
	Chain 1	5755	16.95	30	Pass
		5795	17.25	30	Pass
	Chain 0+Chain 1	5755	19.71	30	Pass
		5795	19.96	30	Pass

Note:

EIRP = Average Output Power + Antenna gain

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	0.24	0.17	0.41	11	Pass
		5200	-0.13	0.17	0.04	11	Pass
		5240	-0.20	0.17	-0.03	11	Pass
	Chain 1	5180	2.26	0.17	2.43	11	Pass
		5200	2.00	0.17	2.17	11	Pass
		5240	1.81	0.17	1.98	11	Pass
802.11ac20	Chain 0	5180	-3.77	0.18	/	11	Pass
		5200	-3.83	0.18	/	11	Pass
		5240	-3.97	0.18	/	11	Pass
	Chain 1	5180	-3.76	0.18	/	11	Pass
		5200	-3.92	0.18	/	11	Pass
		5240	-4.15	0.18	/	11	Pass
	Chain 0+Chain 1	5180	-0.75	0.18	-0.57	9.78	Pass
		5200	-0.86	0.18	-0.68	9.78	Pass
		5240	-1.05	0.18	-0.87	9.78	Pass
802.11ac40	Chain 0	5190	-4.50	0.35	/	11	Pass
		5230	-4.80	0.35	/	11	Pass
	Chain 1	5190	-4.60	0.35	/	11	Pass
		5230	-4.89	0.35	/	11	Pass
	Chain 0+Chain 1	5190	-1.54	0.35	-1.19	9.78	Pass
		5230	-1.83	0.35	-1.48	9.78	Pass

Note 1: The directional gain is 7.22dBi larger than the 6dBi. So the limit should reduce (7.22dBi-6dBi)=1.22dB.

Note 2: Result = Reading + Duty Cycle Factor

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	4.36	0.17	4.53	30	Pass
		5785	4.21	0.17	4.38	30	Pass
		5825	4.27	0.17	4.44	30	Pass
	Chain 1	5745	4.89	0.17	5.06	30	Pass
		5785	4.95	0.17	5.12	30	Pass
		5825	5.01	0.17	5.18	30	Pass

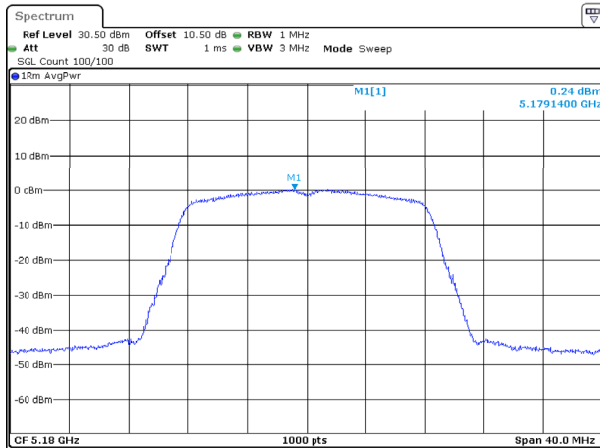
Mode	Antenna	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11ac20	Chain 0	5745	3.00	0.18	3.18	30	Pass
		5785	3.39	0.18	3.57	30	Pass
		5825	3.15	0.18	3.33	30	Pass
	Chain 1	5745	3.54	0.18	3.72	30	Pass
		5785	3.81	0.18	3.99	30	Pass
		5825	4.19	0.18	4.37	30	Pass
	Chain 0+Chain 1	5745	6.29	0.18	6.47	28.17	Pass
		5785	6.62	0.18	6.8	28.17	Pass
		5825	6.71	0.18	6.89	28.17	Pass
802.11ac40	Chain 0	5755	0.19	0.35	0.54	30	Pass
		5795	0.15	0.35	0.5	30	Pass
	Chain 1	5755	0.78	0.35	1.13	30	Pass
		5795	0.58	0.35	0.93	30	Pass
	Chain 0+Chain 1	5755	3.51	0.35	3.86	28.17	Pass
		5795	3.38	0.35	3.73	28.17	Pass

Note 1: The directional gain is 7.83dBi larger than the 6dBi. So the limit should reduce (7.83dBi-6dBi)=1.83dB.

Note 2: Result = Reading + Duty Cycle Factor

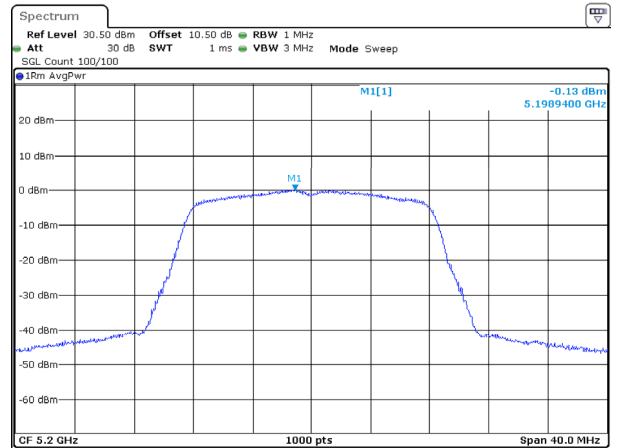
5150-5250MHz

802.11a_5180MHz_Chain 0



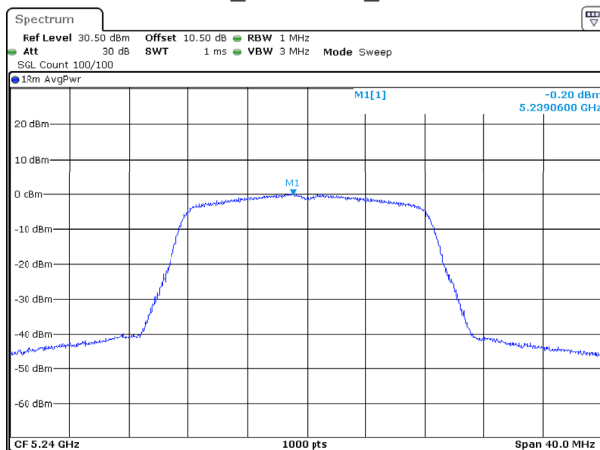
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Date: 19.MAY.2025 22:18:58

802.11a_5200MHz_Chain 0



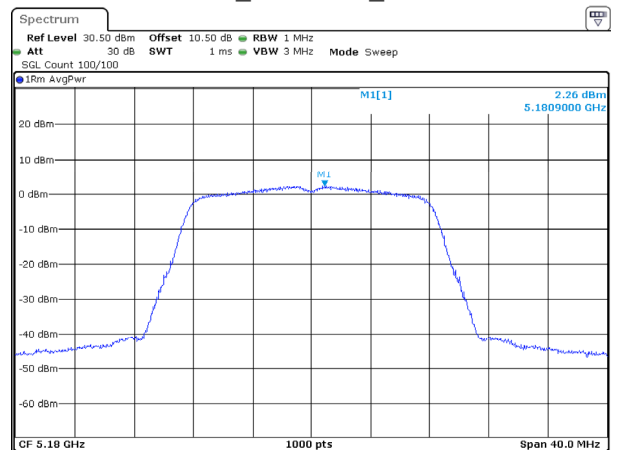
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802.11a_5240MHz_Chain 0



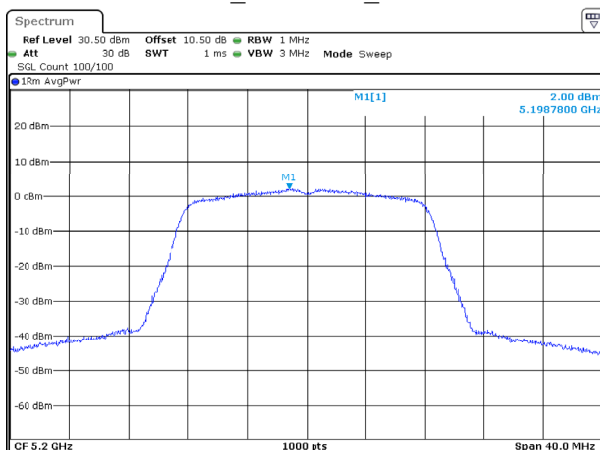
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802.11a_5180MHz_Chain 1



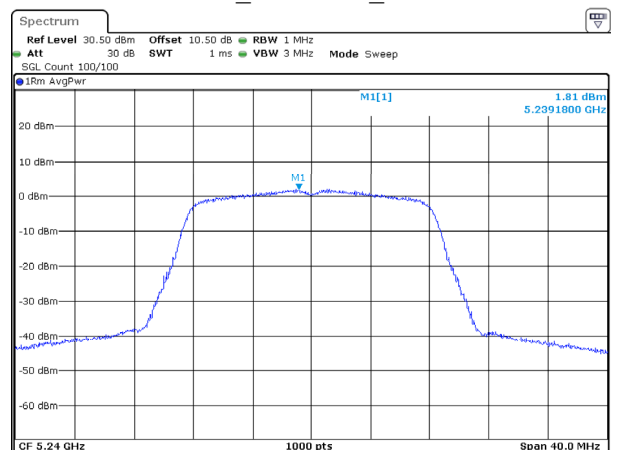
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802.11a_5200MHz_Chain 1



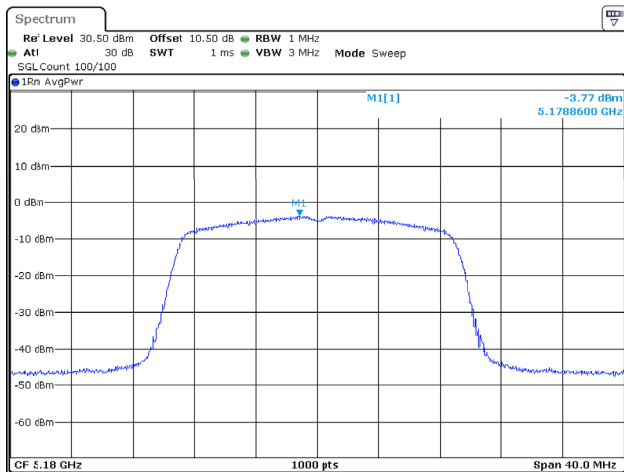
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802.11a_5240MHz_Chain 1



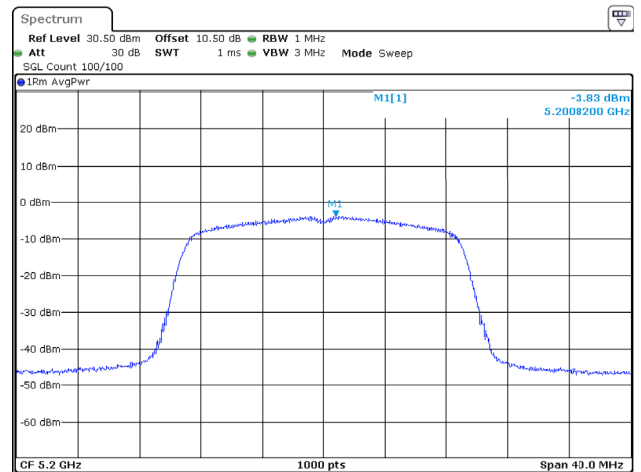
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802.11ac20_5180MHz_Chain 0



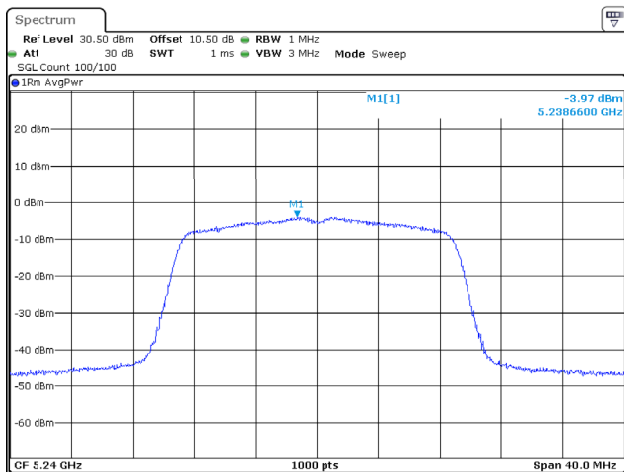
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802.11ac20_5200MHz_Chain 0



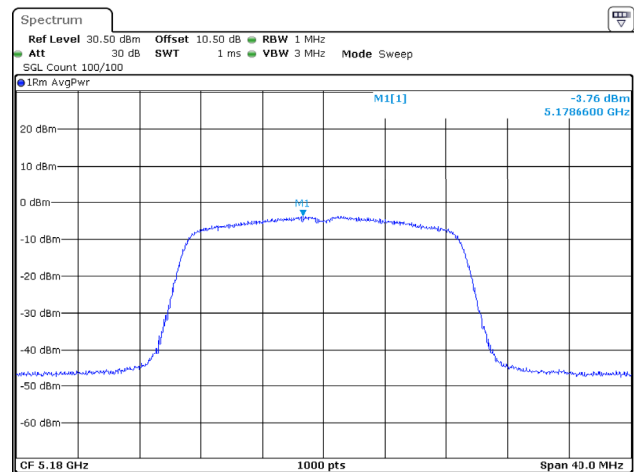
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802.11ac20_5240MHz_Chain 0



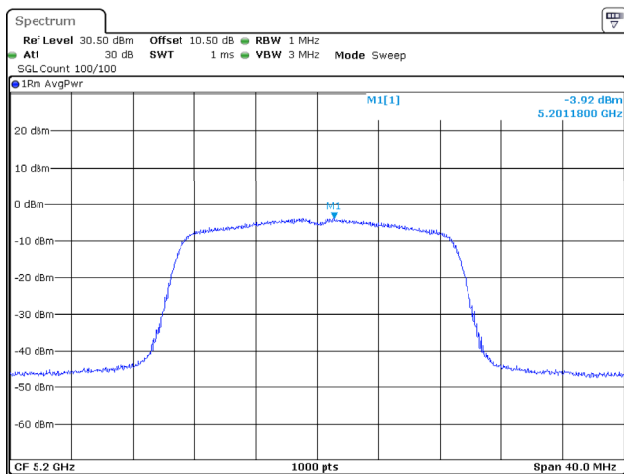
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802.11ac20_5180MHz_Chain 1



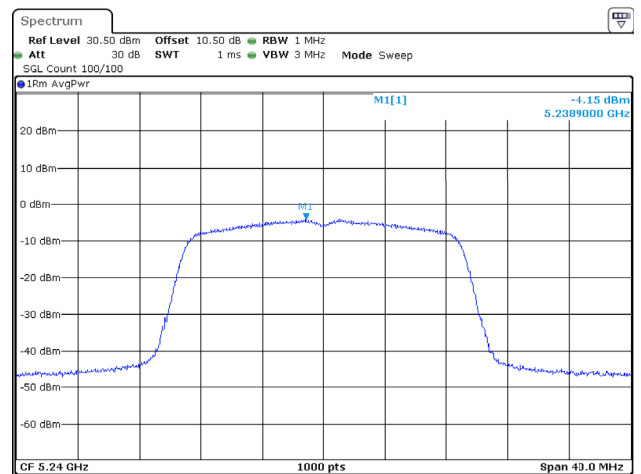
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802.11ac20_5200MHz_Chain 1



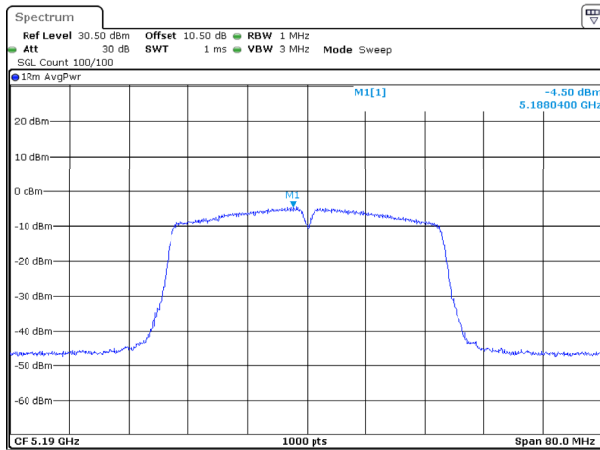
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802.11ac20_5240MHz_Chain 1



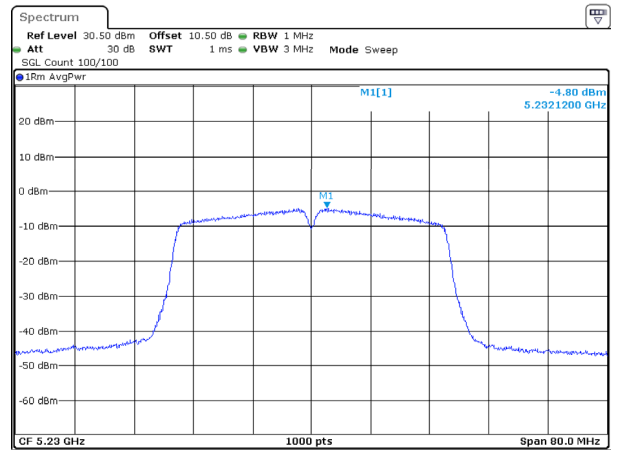
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802.11ac40_5190MHz_Chain 0



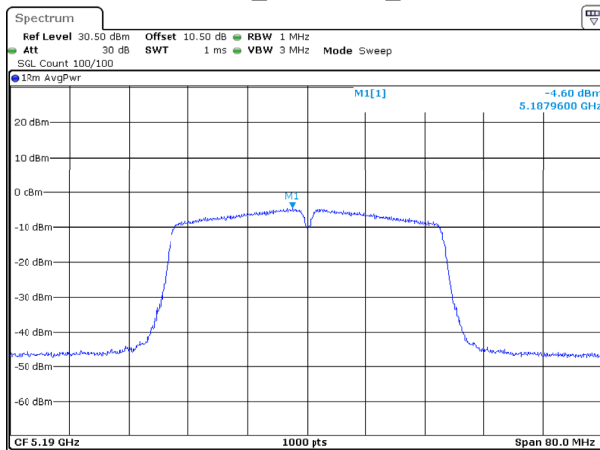
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Date: 19.MAY.2025 23:04:29

802.11ac40_5230MHz_Chain 0



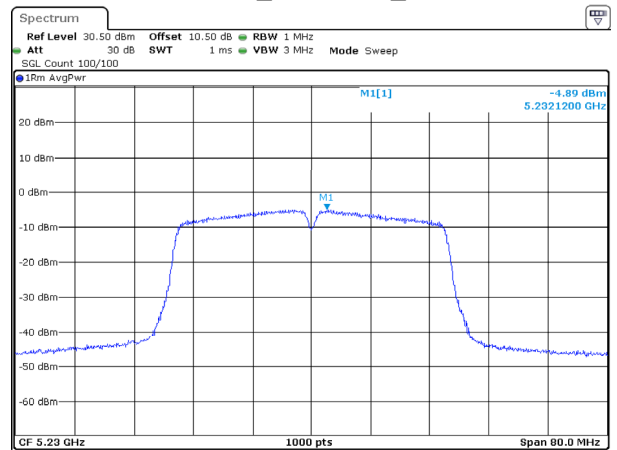
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Date: 19.MAY.2025 23:04:49

802.11ac40_5190MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 19.MAY.2025 23:05:24

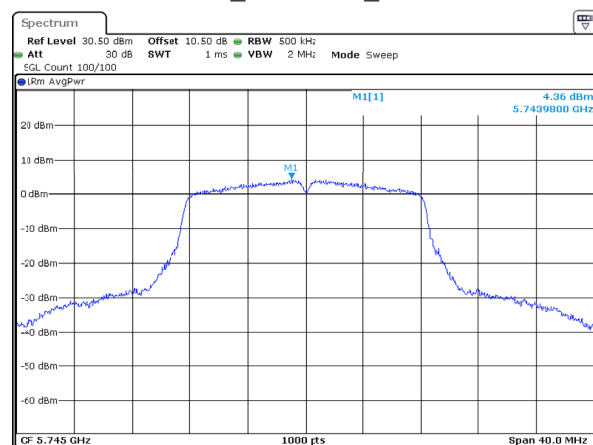
802.11ac40_5230MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 19.MAY.2025 23:06:24

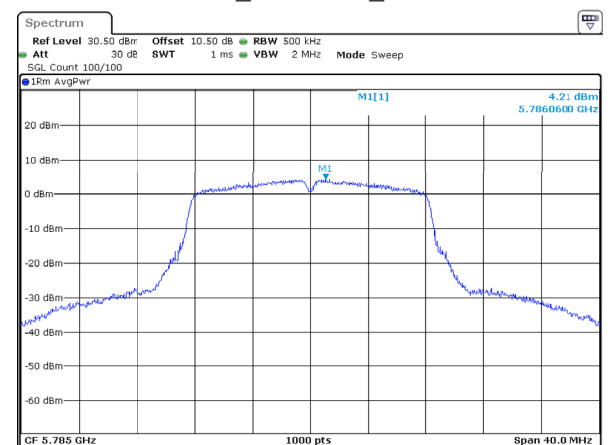
5725-5850MHz

802.11a_5745MHz_Chain 0



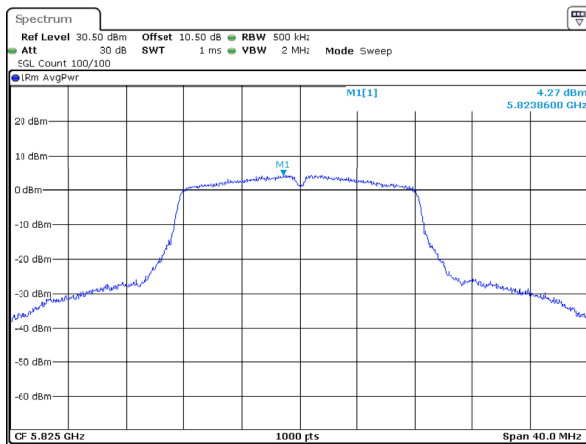
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 10:53:41

802.11a_5785MHz_Chain 0



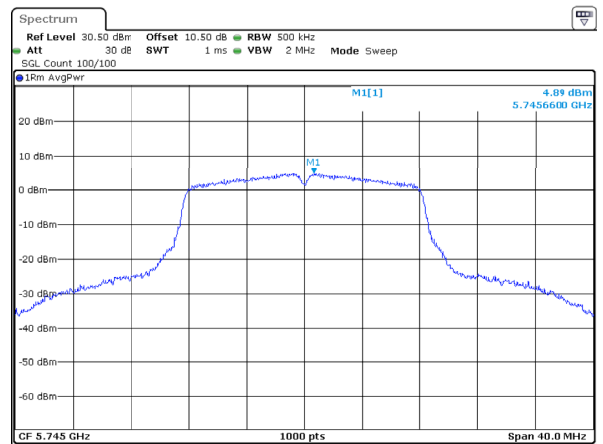
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802.11a_5825MHz_Chain 0



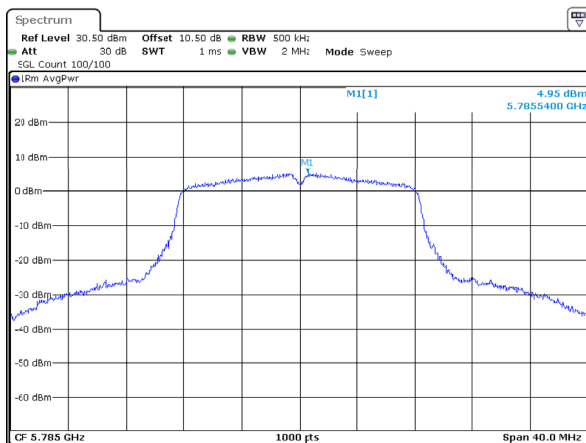
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802.11a_5745MHz_Chain 1



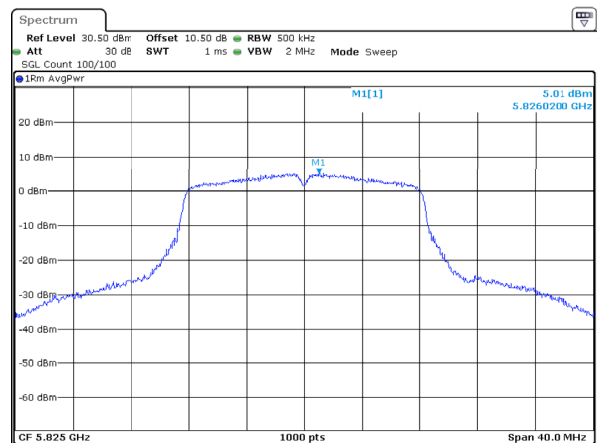
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802.11a_5785MHz_Chain 1



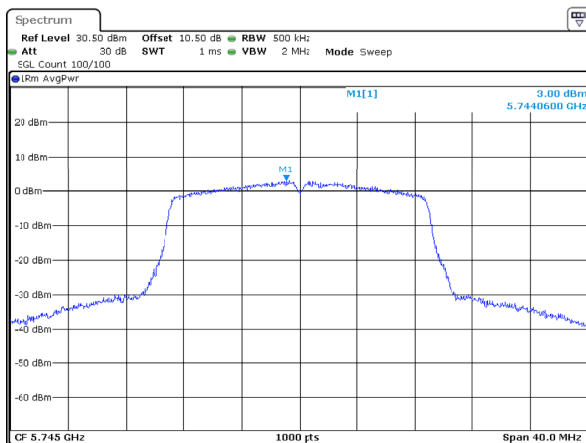
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Date: 3.JAN.2025 13:21:54

802.11a_5825MHz_Chain 1



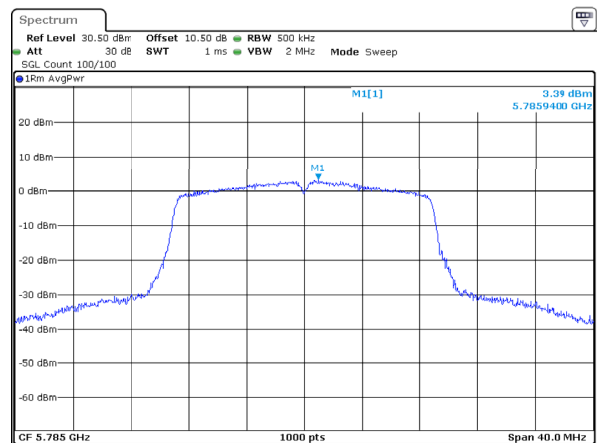
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802.11ac20_5745MHz_Chain 0



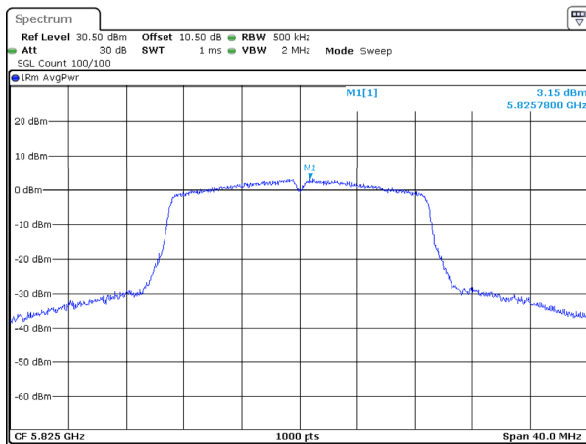
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802.11ac20_5785MHz_Chain 0



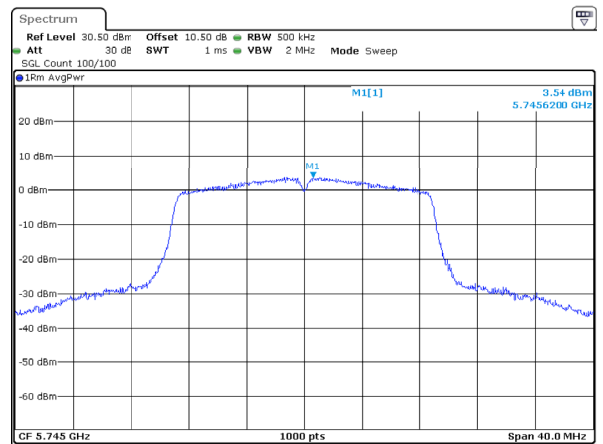
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802.11ac20_5825MHz_Chain 0



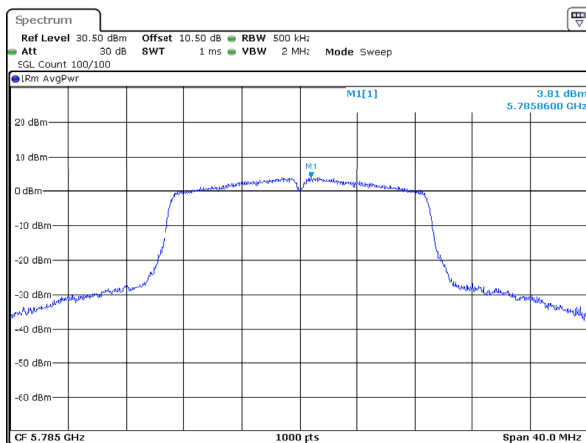
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802.11ac20_5745MHz_Chain 1



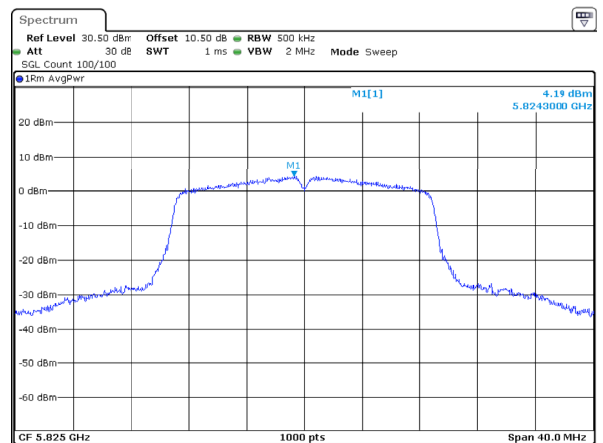
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802.11ac20_5785MHz_Chain 1



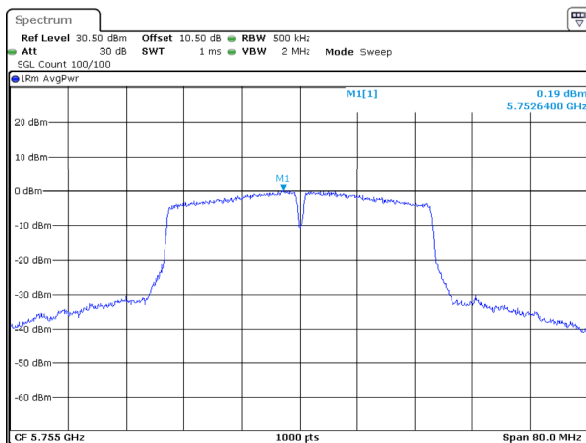
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Date: 3.JAN.2025 13:29:38

802.11ac20_5825MHz_Chain 1



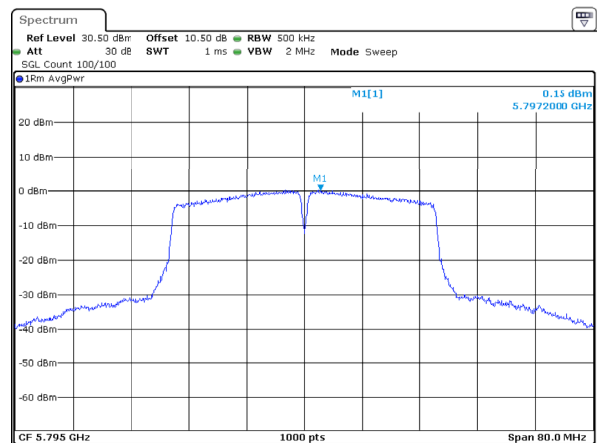
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802.11ac40_5755MHz_Chain 0



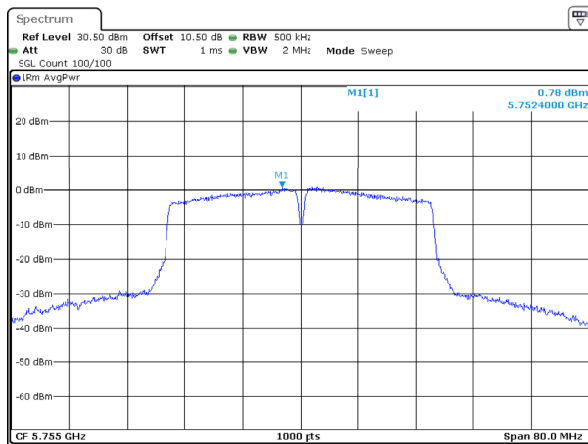
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Date: 3.JAN.2025 11:20:13

802.11ac40_5795MHz_Chain 0



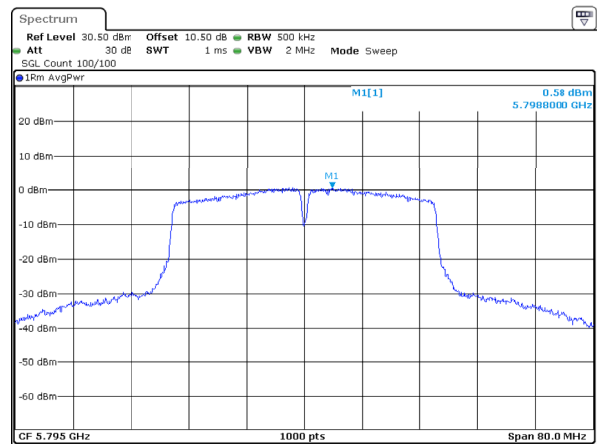
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Date: 3.JAN.2025 11:21:33

802.11ac40_5755MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:35:26

802.11ac40_5795MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 3.JAN.2025 13:38:53

Duty Cycle

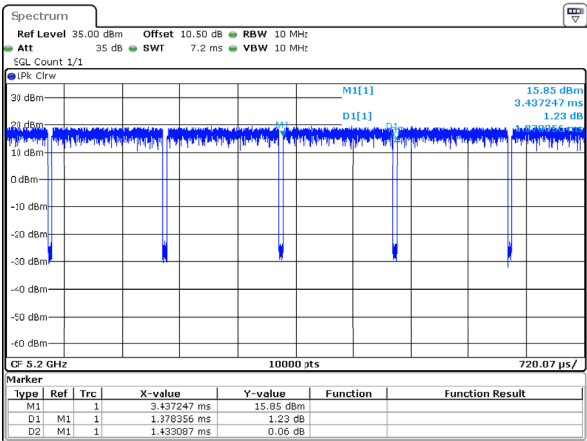
5150-5250MHz

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

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

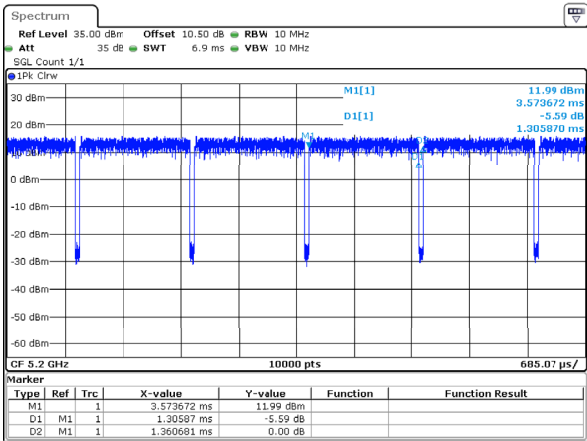
5150-5250MHz

802.11a_5200MHz



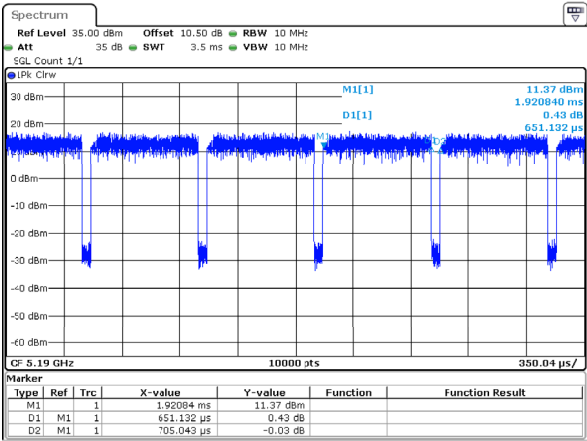
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 7.JAN.2025 10:10:01

802.11ac20_5200MHz



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 7.JAN.2025 10:11:26

802.11ac40_5190MHz



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 7.JAN.2025 10:12:20