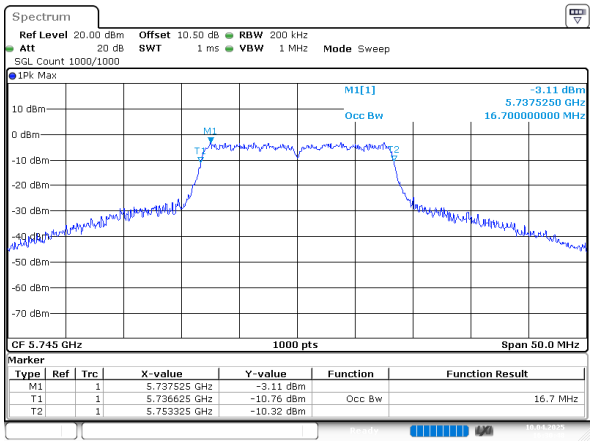
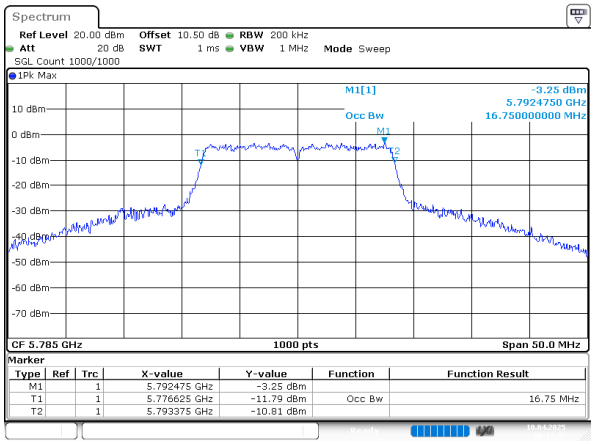
5725-5850MHz

802.11a_5745MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 16:30:49

802.11a_5785MHz



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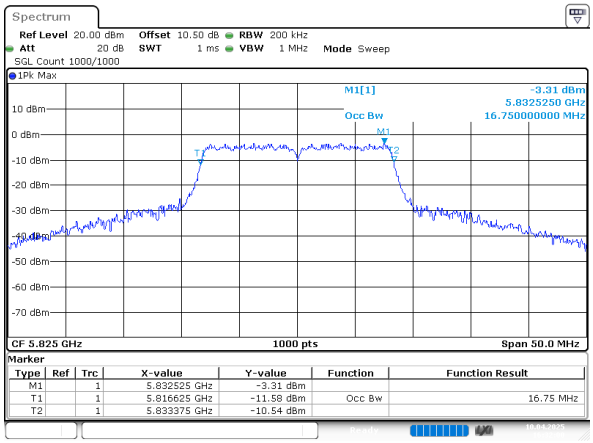
Date: 10.APR.2025 16:17:48

802.11a_5825MHz



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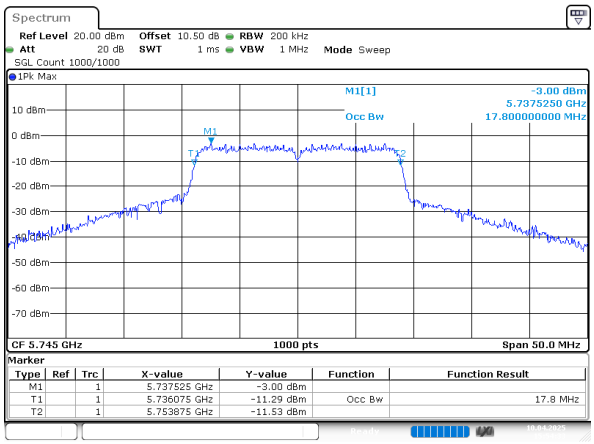
Date: 10.APR.2025 16:32:01

802.11n20_5745MHz



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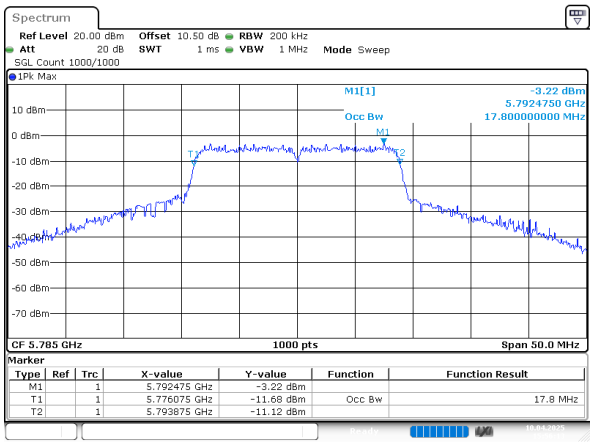
Date: 10.APR.2025 15:54:33

802.11n20_5785MHz



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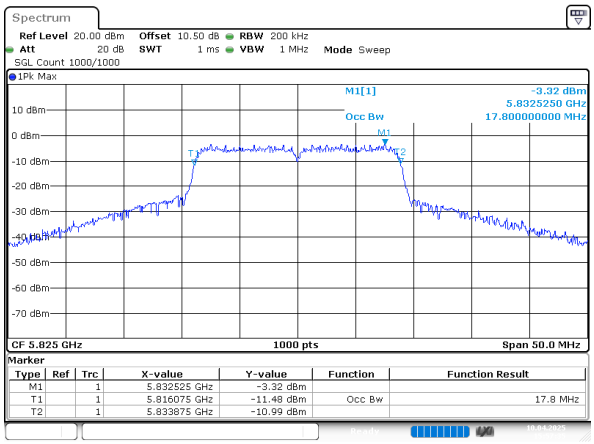
Date: 10.APR.2025 15:56:13

802.11n20_5825MHz



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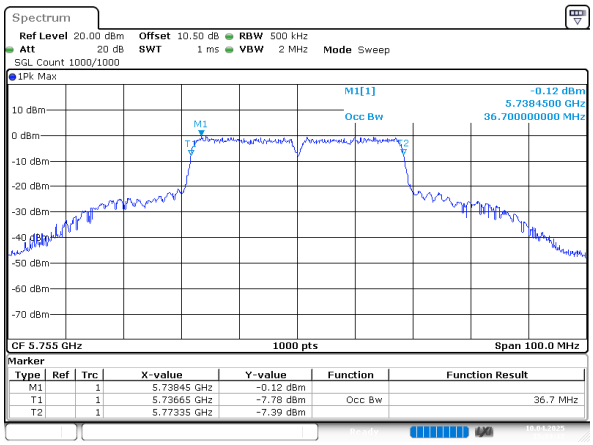
Date: 10.APR.2025 15:57:36

802.11n40_5755MHz



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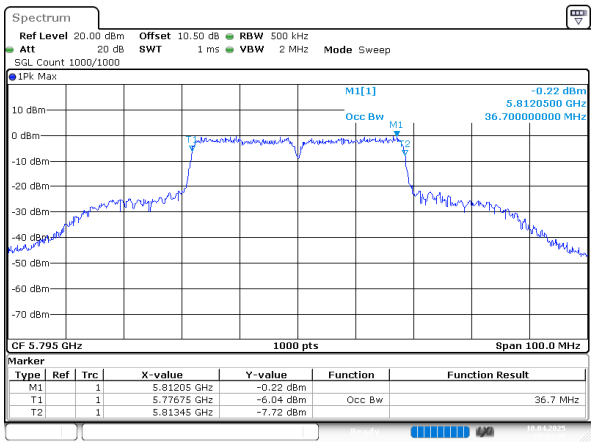
802.11n40_5795MHz



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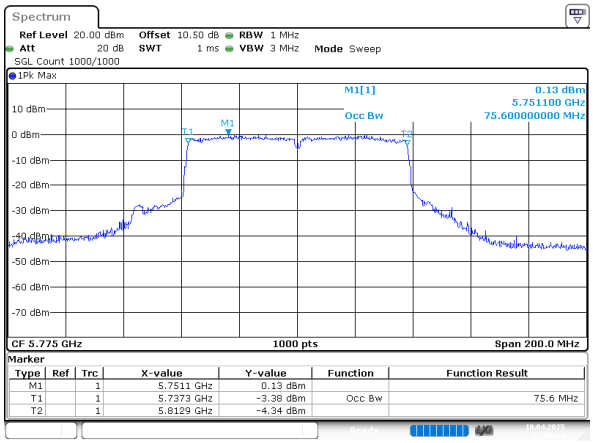
Date: 10.APR.2025 15:34:49

802.11ac80_5775MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:20:35

5.5 Maximum Conducted Output Power

Test Information:

Serial No.:	2Z9G-7	**Test Date:**	2025/04/10~2025/04/15
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jeff Wei	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.1~26.8	**Relative Humidity: (%)**	30~59	**ATM Pressure: (kPa)**	100.2~100.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2024/06/07	2025/06/06
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2024/08/27	2025/08/26

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	7.51	24	Pass
	5200	7.33	24	Pass
	5240	**8.04**	24	Pass
802.11n20	5180	7.64	24	Pass
	5200	7.3	24	Pass
	5240	7.5	24	Pass
802.11n40	5190	7.7	24	Pass
	5230	7.9	24	Pass
802.11ac80	5210	7.29	24	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5260	7.85	24	Pass
	5280	8.04	24	Pass
	5320	8.02	24	Pass
802.11n20	5260	7.96	24	Pass
	5280	7.44	24	Pass
	5320	7.11	24	Pass
802.11n40	5270	8.04	24	Pass
	5310	7.98	24	Pass
802.11ac80	5290	**8.07**	24	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5500	7.12	24	Pass
	5580	7.86	24	Pass
	5700	**7.89**	24	Pass
802.11n20	5500	7.27	24	Pass
	5580	7.77	24	Pass
	5700	6.61	24	Pass
802.11n40	5510	7.7	24	Pass
	5550	7.07	24	Pass
	5670	7.46	24	Pass
802.11ac80	5530	6.85	24	Pass
	5610	7.41	24	Pass
	5690	7.11	24	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	7.45	30	Pass
	5785	7.19	30	Pass
	5825	7.1	30	Pass
802.11n20	5745	7.29	30	Pass
	5785	7.1	30	Pass
	5825	7.08	30	Pass
802.11n40	5755	7.52	30	Pass
	5795	7.24	30	Pass
802.11ac80	5775	**7.9**	30	Pass

5.6 Power Spectral Density

Test Information:

Serial No.:	2Z9G-7	**Test Date:**	2025/04/10
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jeff Wei	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.1	**Relative Humidity: (%)**	59	**ATM Pressure: (kPa)**	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	-3.71	0.46	-3.25	11	Pass
	5200	-3.80	0.46	-3.34	11	Pass
	5240	-3.32	0.46	-2.86	11	Pass
802.11n20	5180	-3.84	0.54	-3.30	11	Pass
	5200	-4.21	0.54	-3.67	11	Pass
	5240	-4.06	0.54	-3.52	11	Pass
802.11n40	5190	-7.12	1.01	-6.11	11	Pass
	5230	-7.22	1.01	-6.21	11	Pass
802.11ac80	5210	-9.79	1.73	-8.06	11	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5260	-3.65	0.46	-3.19	11	Pass
	5280	-3.23	0.46	-2.77	11	Pass
	5320	-3.41	0.46	-2.95	11	Pass
802.11n20	5260	-3.93	0.54	-3.39	11	Pass
	5280	-4.40	0.54	-3.86	11	Pass
	5320	-4.58	0.54	-4.04	11	Pass
802.11n40	5270	-6.85	1.01	-5.84	11	Pass
	5310	-7.10	1.01	-6.09	11	Pass
802.11ac80	5290	-10.47	1.73	-8.74	11	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5500	-4.17	0.46	-3.71	11	Pass
	5580	-3.75	0.46	-3.29	11	Pass
	5700	-3.65	0.46	-3.19	11	Pass
802.11n20	5500	-4.31	0.54	-3.77	11	Pass
	5580	-3.89	0.54	-3.35	11	Pass
	5700	-3.72	0.54	-3.18	11	Pass
802.11n40	5510	-7.07	1.01	-6.06	11	Pass
	5550	-6.53	1.01	-5.52	11	Pass
	5670	-6.11	1.01	-5.10	11	Pass
802.11ac80	5530	-10.13	1.73	-8.40	11	Pass
	5610	-9.96	1.73	-8.23	11	Pass
	5690	-9.62	1.73	-7.89	11	Pass

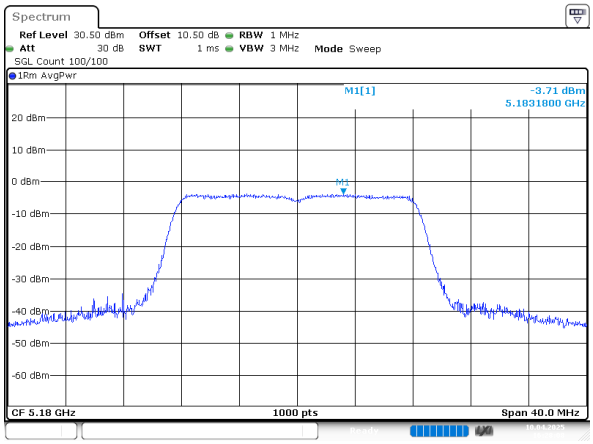
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-5.87	0.46	-5.41	30	Pass
	5785	-7.27	0.46	-6.81	30	Pass
	5825	-7.26	0.46	-6.80	30	Pass
802.11n20	5745	-7.03	0.54	-6.49	30	Pass
	5785	-7.18	0.54	-6.64	30	Pass
	5825	-7.48	0.54	-6.94	30	Pass
802.11n40	5755	-9.09	1.01	-8.08	30	Pass
	5795	-9.67	1.01	-8.66	30	Pass
802.11ac80	5775	-13.09	1.73	-11.36	30	Pass

Result = Reading + Duty Cycle Factor

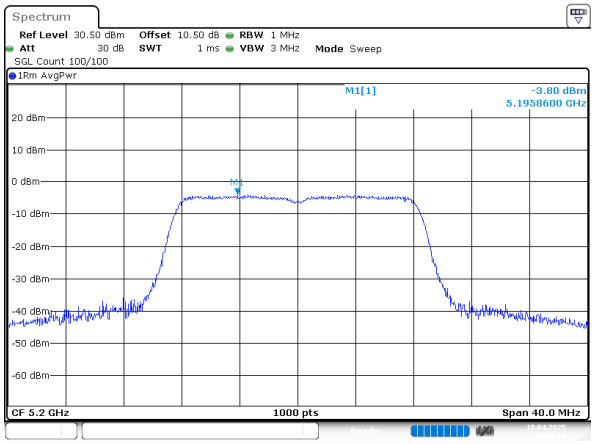
5150-5250MHz

802.11a_5180MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 16:28:09

802.11a_5200MHz



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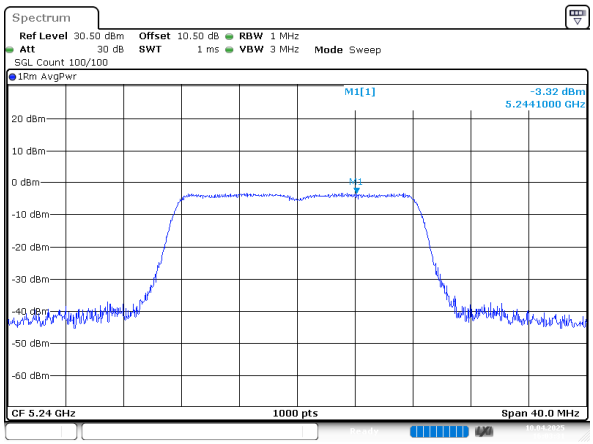
802.11a_5240MHz



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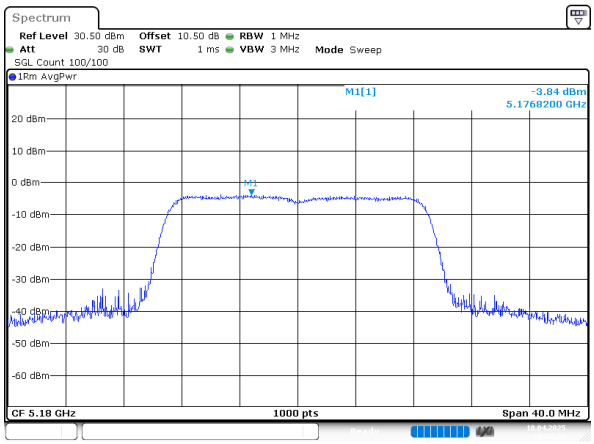
802.11n20_5180MHz



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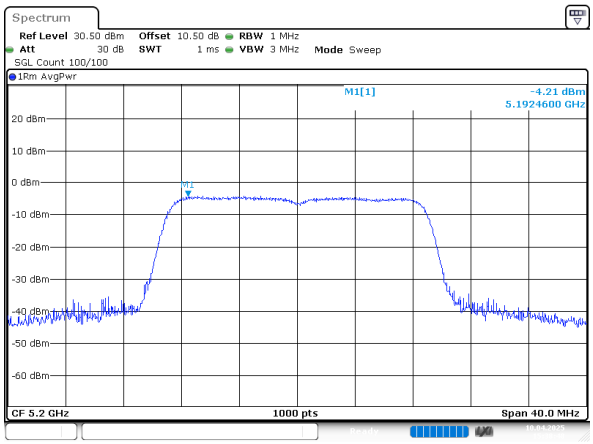
802.11n20_5200MHz



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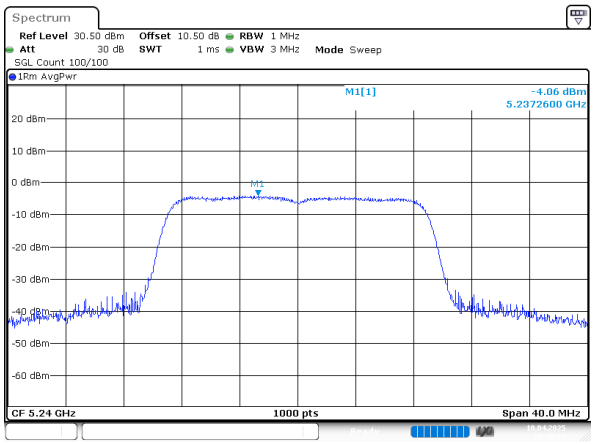
802.11n20_5240MHz



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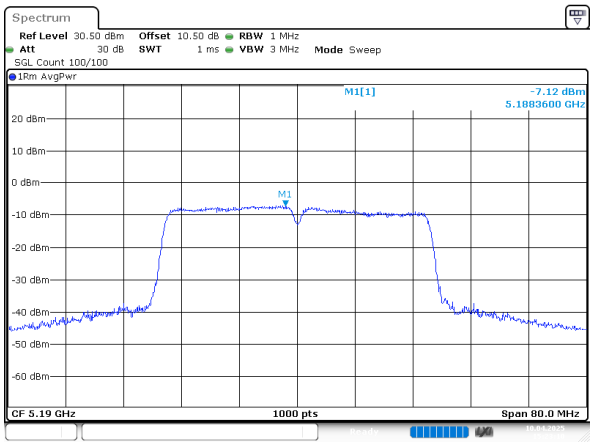
802.11n40_5190MHz



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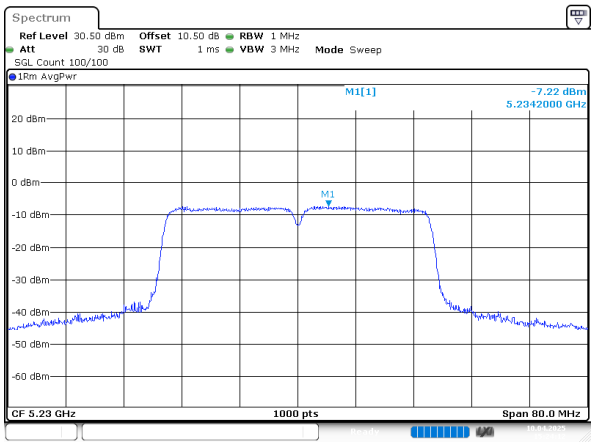
Date: 10.APR.2025 15:23:10

802.11n40_5230MHz



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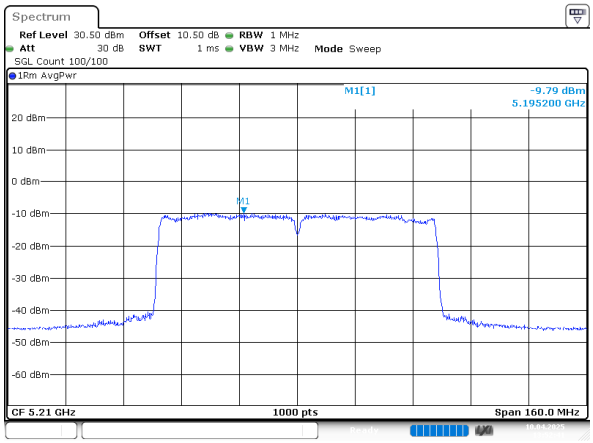
5250-5350MHz

802.11ac80_5210MHz



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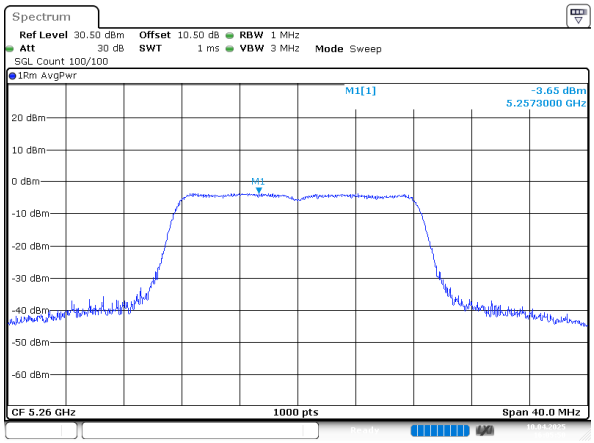
Date: 10.APR.2025 13:52:41

802.11a_5260MHz



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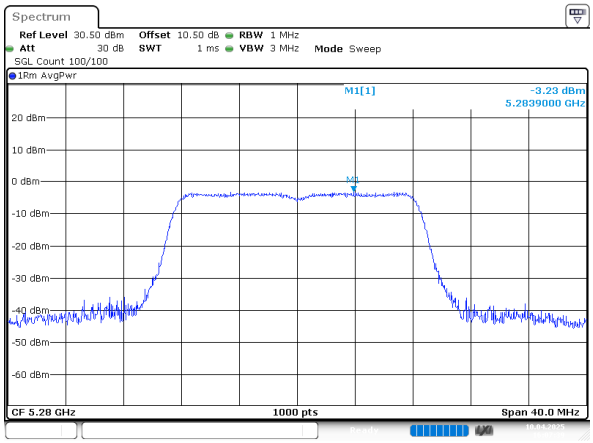
Date: 10.APR.2025 16:05:50

802.11a_5280MHz



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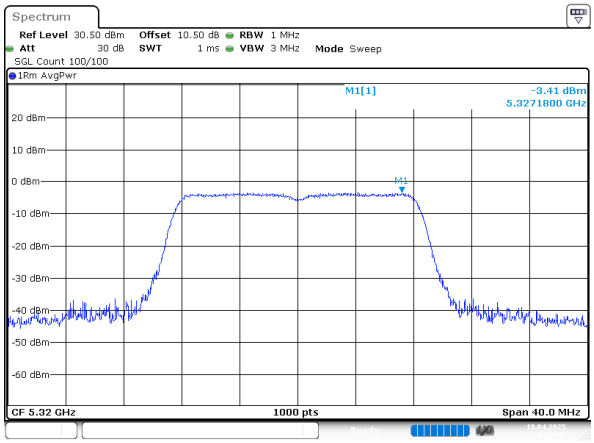
Date: 10.APR.2025 16:07:39

802.11a_5320MHz



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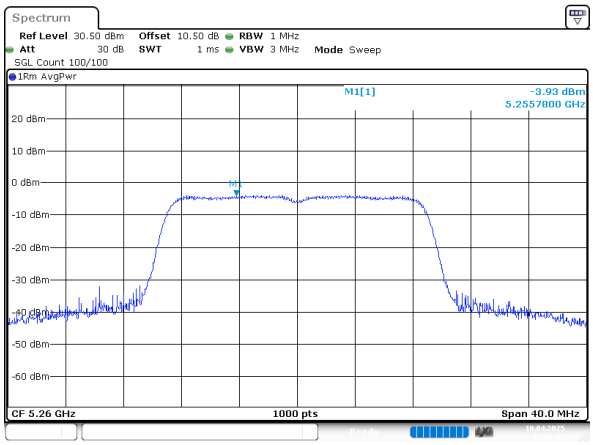
Date: 10.APR.2025 16:09:44

802.11n20_5260MHz



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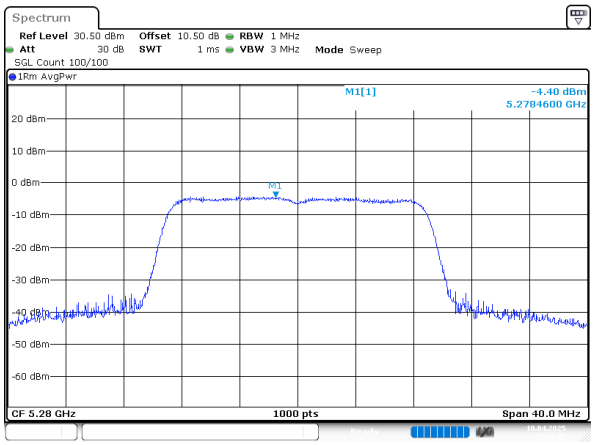
Date: 10.APR.2025 15:42:07

802.11n20_5280MHz



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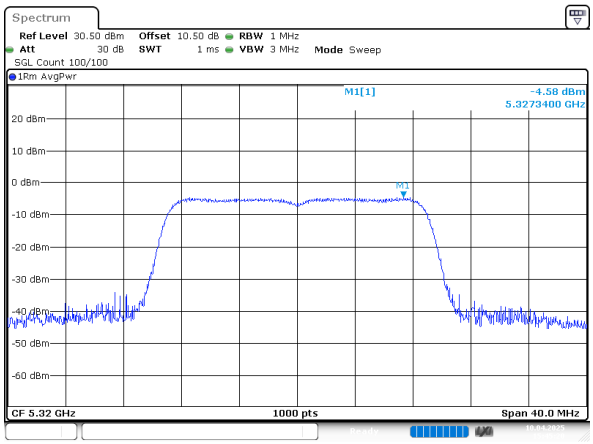
Date: 10.APR.2025 15:43:41

802.11n20_5320MHz



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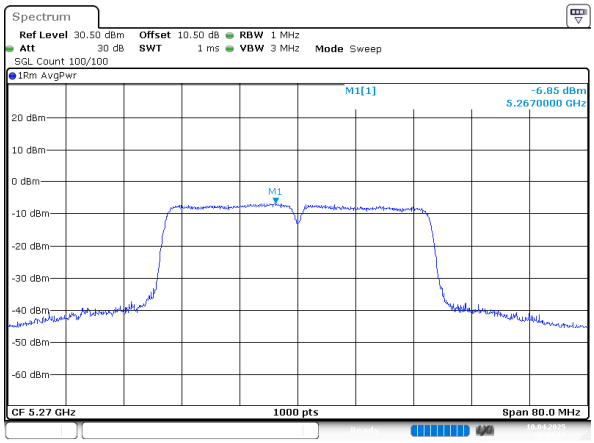
802.11n40_5270MHz



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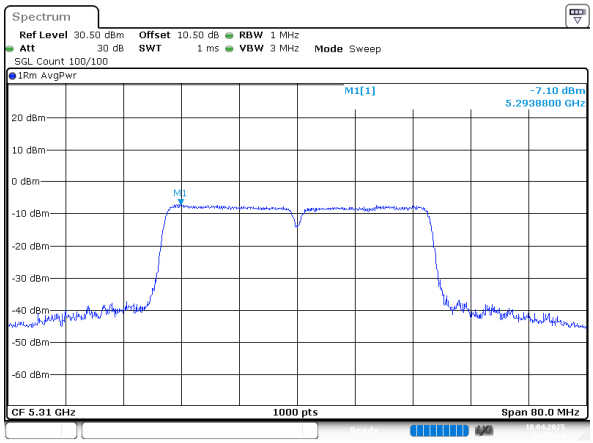
Date: 10.APR.2025 16:34:28

802.11n40_5310MHz



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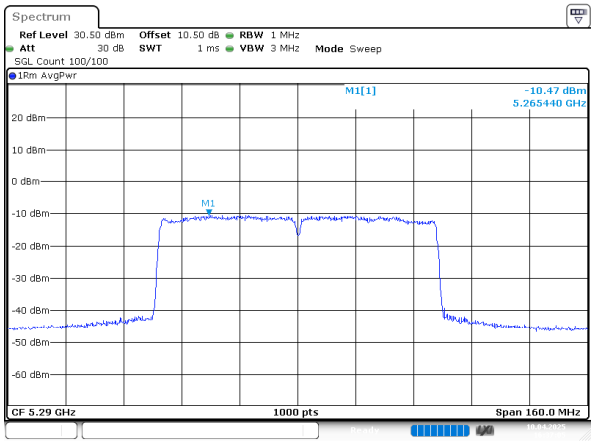
802.11ac80_5290MHz



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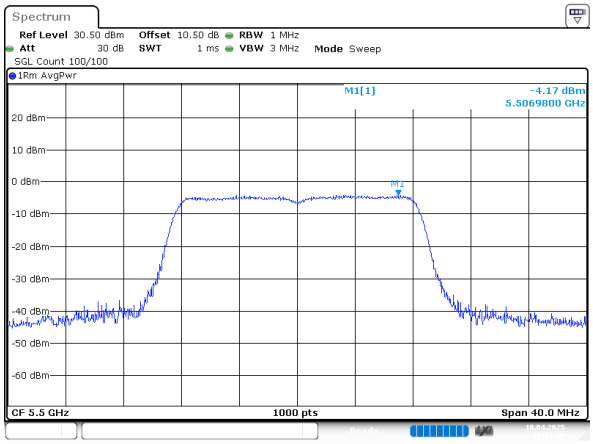
Date: 10.APR.2025 16:37:05

5470-5725MHz

802.11a_5500MHz



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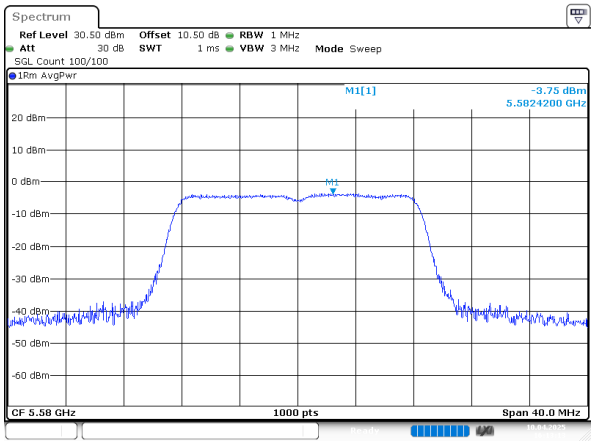
Date: 10.APR.2025 16:11:39

802.11a_5580MHz



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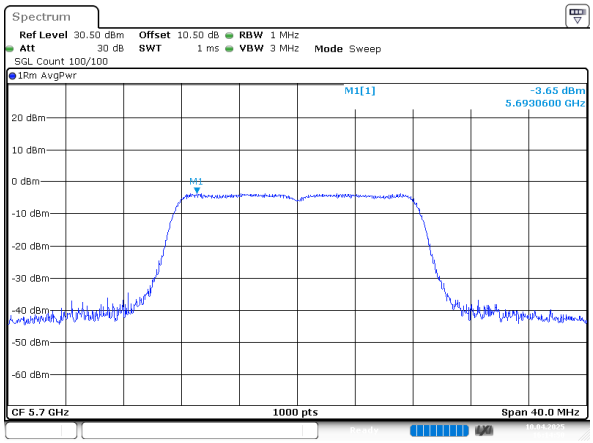
802.11a_5700MHz



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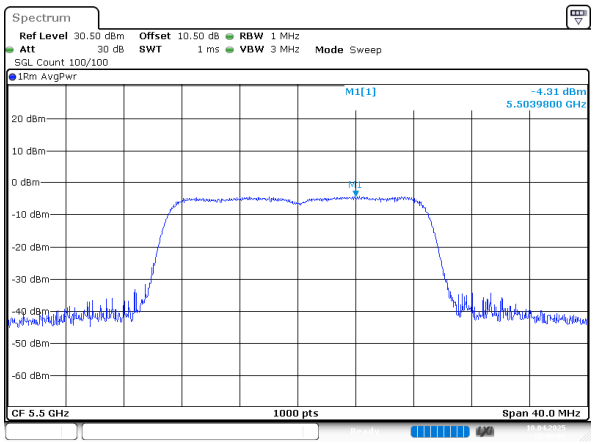
Date: 10.APR.2025 16:14:50

802.11n20_5500MHz



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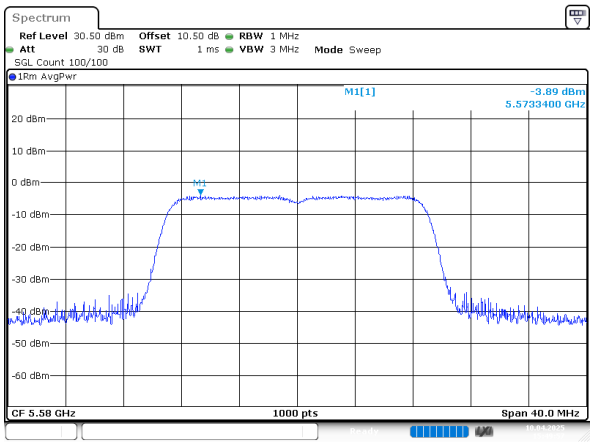
802.11n20_5580MHz



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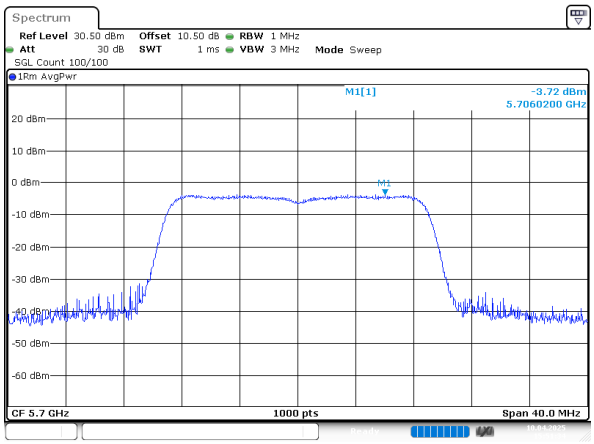
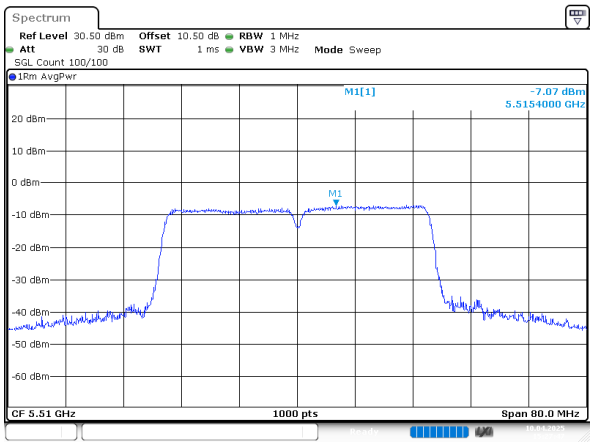
Date: 10.APR.2025 15:49:58

802.11n20_5700MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:51:35

802.11n40_5510MHz



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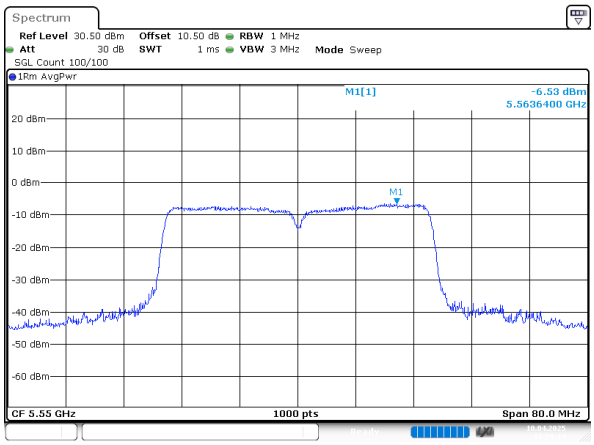
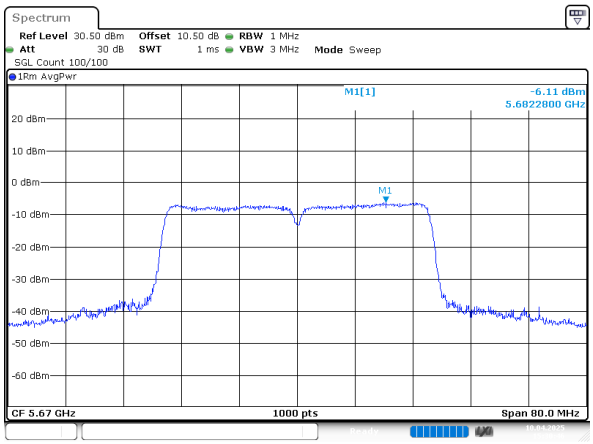
Date: 10.APR.2025 15:27:48

802.11n40_5550MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:29:14

802.11n40_5670MHz



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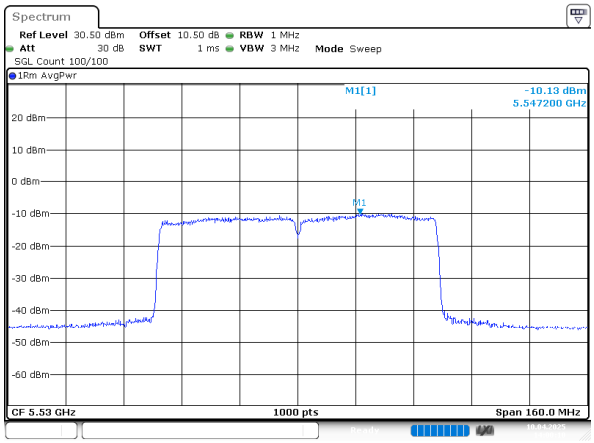
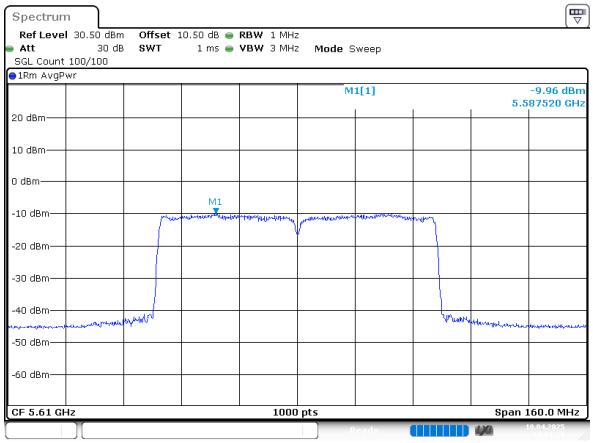
Date: 10.APR.2025 15:30:47

802.11ac80_5530MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 14:00:11

802.11ac80_5610MHz



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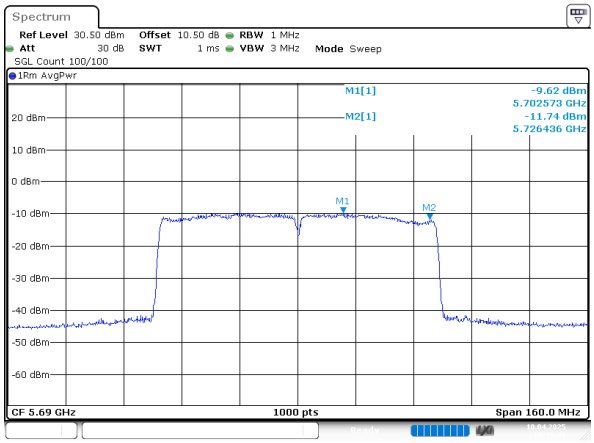
Date: 10.APR.2025 14:01:29

802.11ac80_5690MHz



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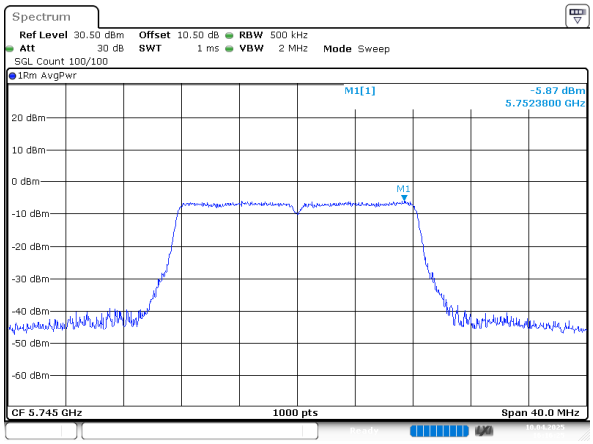
Date: 10.APR.2025 15:19:41

5725-5850MHz

802.11a_5745MHz



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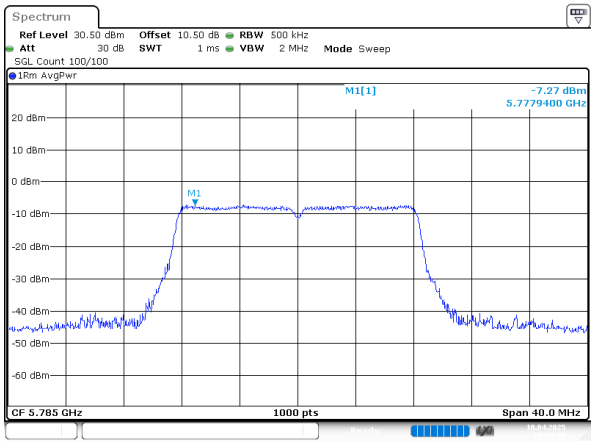
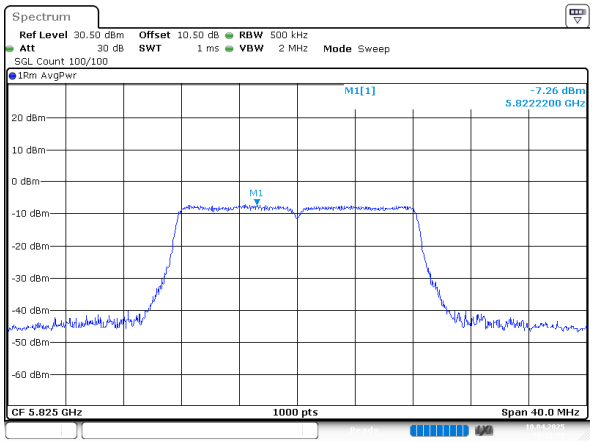
Date: 10.APR.2025 16:16:25

802.11a_5785MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 16:18:10

802.11a_5825MHz



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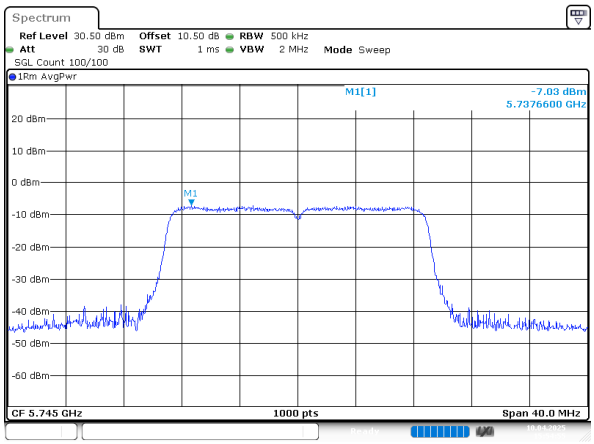
Date: 10.APR.2025 16:32:22

802.11n20_5745MHz



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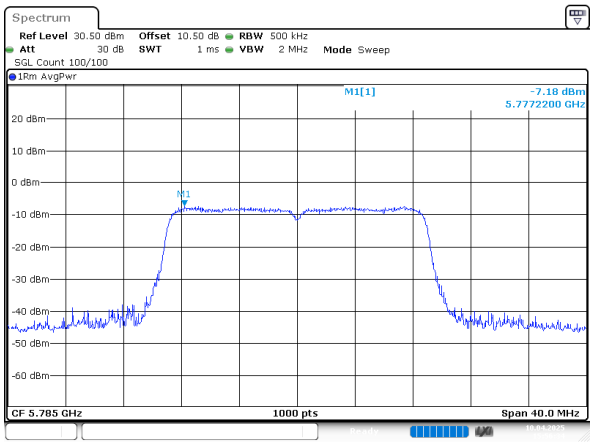
Date: 10.APR.2025 15:54:55

802.11n20_5785MHz



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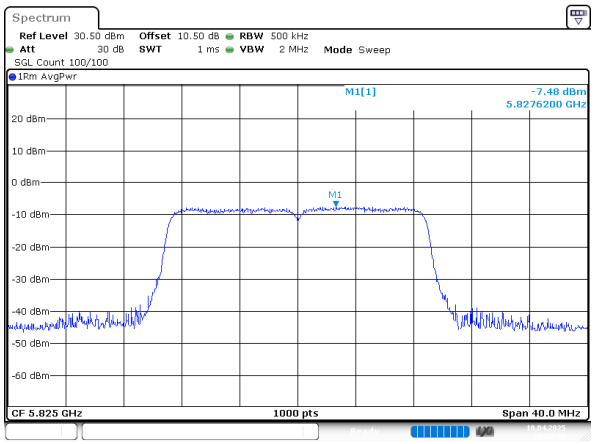
Date: 10.APR.2025 15:56:34

802.11n20_5825MHz



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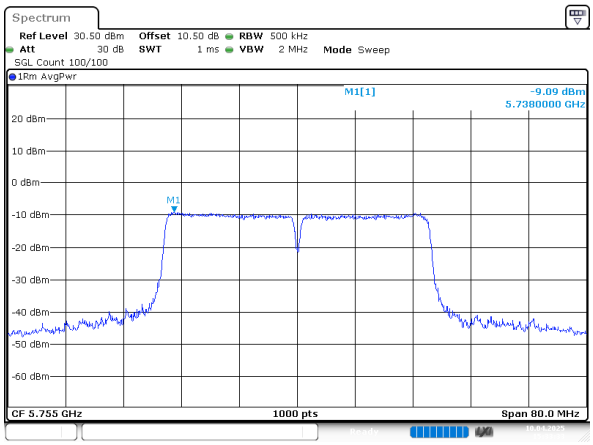
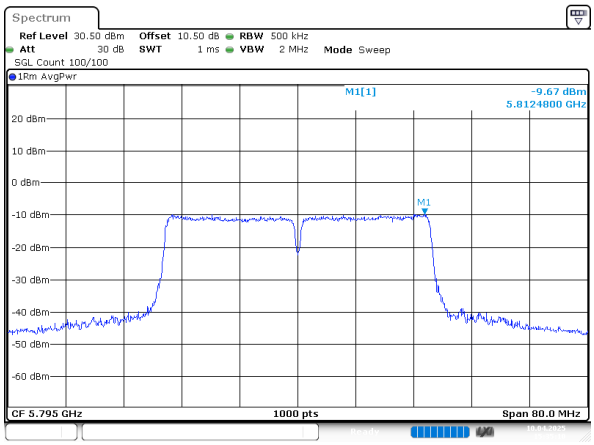
Date: 10.APR.2025 15:57:56

802.11n40_5755MHz



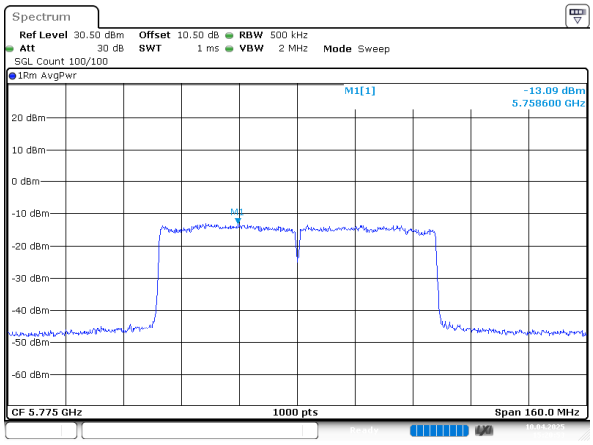
ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:33:33

802.11n40_5795MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:35:10

802.11ac80_5775MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 15:20:54

5.7 Duty Cycle

Test Information:

Serial No.:	2Z9G-7	**Test Date:**	2025/04/10
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Jeff Wei	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C)	25.1	**Relative Humidity: (%)**	59	**ATM Pressure: (kPa)**	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

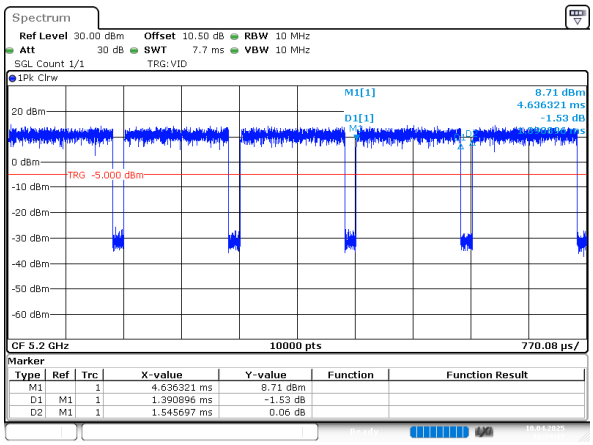
5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.391	1.546	89.97	0.46	719	1
802.11n20	5200	1.173	1.328	88.33	0.54	853	1
802.11n40	5190	0.586	0.739	79.30	1.01	1706	2
802.11ac80	5210	0.295	0.439	67.20	1.73	3390	5

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

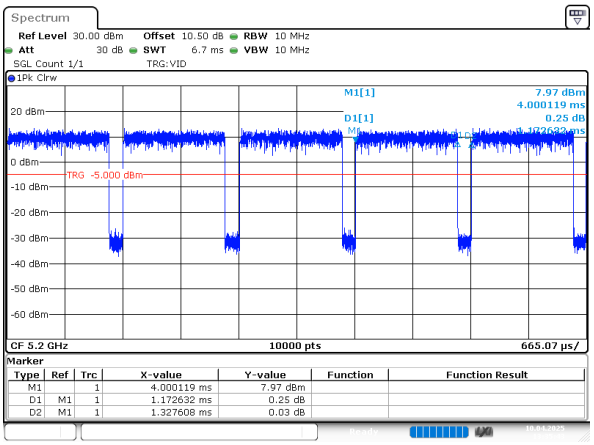
5150-5250MHz

802.11a_5200MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 13:34:17

802.11n20_5200MHz



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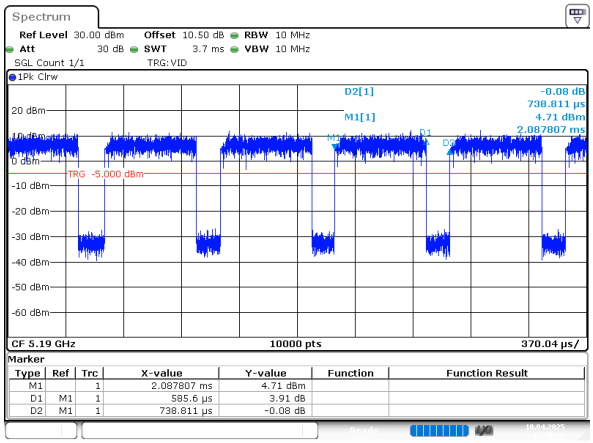
Date: 10.APR.2025 13:35:43

802.11n40_5190MHz



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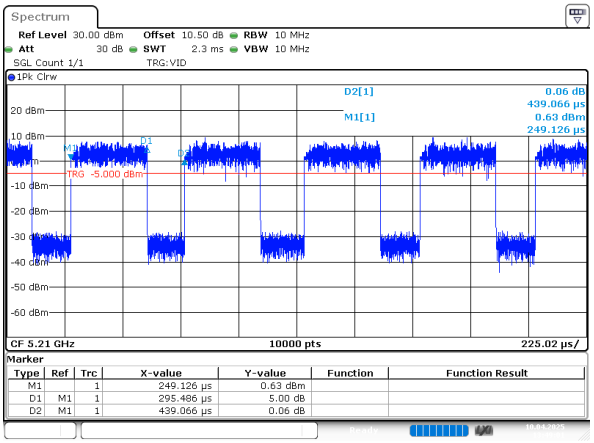
Date: 10.APR.2025 13:40:18

802.11ac80_5210MHz



ProjectNo.:2502R24398E-RF Tester:Jeff Wei
Date: 10.APR.2025 13:49:01

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502R24398E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502R24398E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502R24398E-RF-00D-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

Applicable Standard

According to§15.407(f) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

For 5150-5250MHz:
The max conducted power including tune-up tolerance is 8.1dBm (6.46 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=6.46/5*(√5.24) = 2.96< 3.0

For 5250-5350MHz:
The max conducted power including tune-up tolerance is 8.1dBm (6.46 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=6.46/5*(√5.32) = 2.98< 3.0

For 5470-5725MHz:
The max conducted power including tune-up tolerance is 7.9dBm (6.17 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=6.17/5*(√5.70) = 2.94< 3.0

For 5725-5850MHz:
The max conducted power including tune-up tolerance is 7.9dBm (6.17 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=6.17/5*(√5.825) = 2.98< 3.0

Note: the max conducted power including tune-up tolerance was declared by manufacturer.
Result: Compliant. The stand-alone SAR evaluation is not necessary.

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