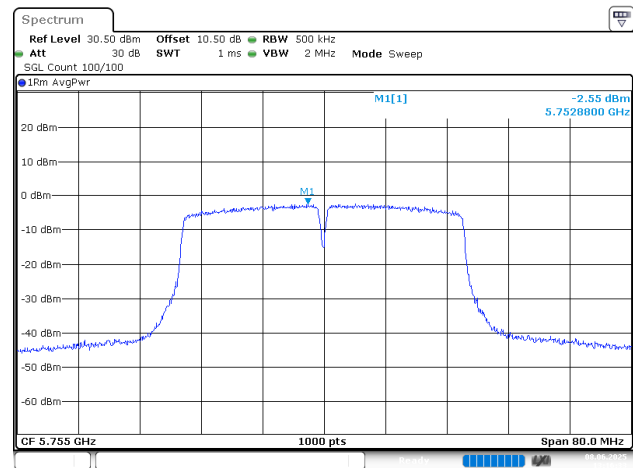
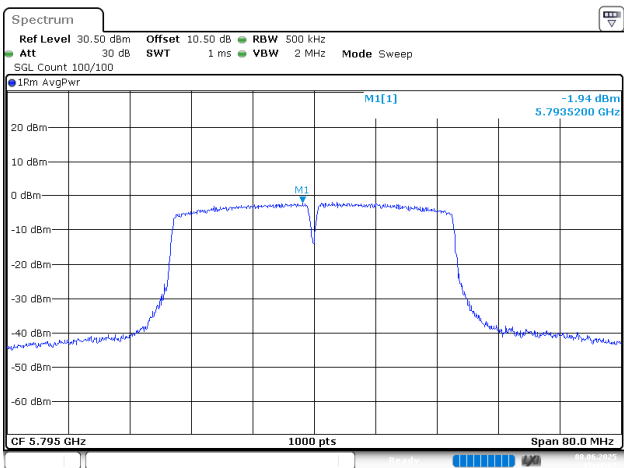


802.11n ht40_5755MHz_Chain 0



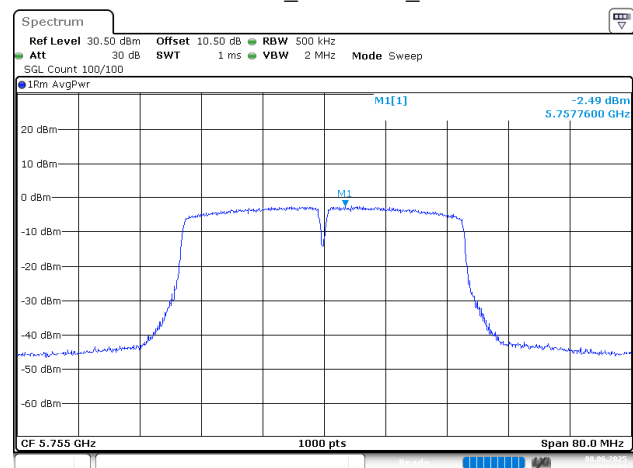
ProjectNo.:2502S54931E-RF Tester:Conor Fu
Date: 8.JUN.2025 13:16:34

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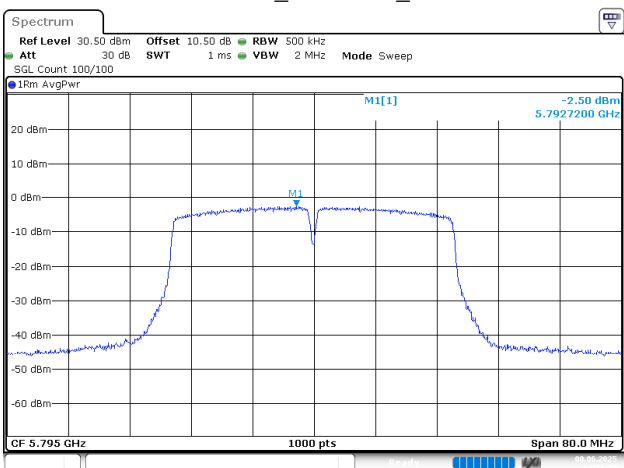
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Date: 8.JUN.2025 13:18:08

802.11n ht40_5755MHz_Chain 1



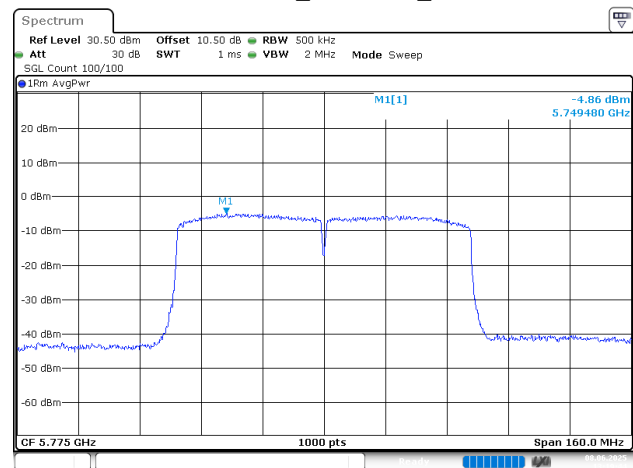
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Date: 8.JUN.2025 14:56:12

802.11n ht40_5795MHz_Chain 1



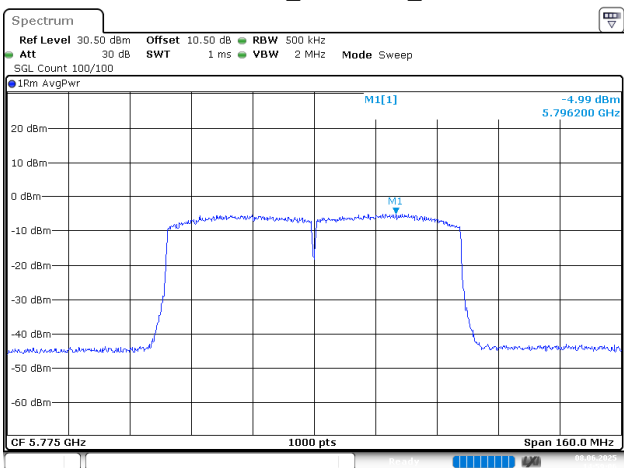
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Date: 8.JUN.2025 14:57:30

802.11ac vht80_5775MHz_Chain 0



ProjectNo.:2502S54931E-RF Tester:Conor Fu
Date: 8.JUN.2025 13:19:45

802.11ac vht80_5775MHz_Chain 1



ProjectNo.:2502S54931E-RF Tester:Conor Fu
Date: 8.JUN.2025 14:59:06

5.7 Duty Cycle

Test Information:

Serial No.:	31QP-1	Test Date:	2025/06/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.4	Relative Humidity: (%)	62	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
Narda	Coaxial Attenuator	773-10	F-08-EM511	2025/06/07	2026/06/06

* 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	100	100	100	0	NA	0.010
802.11n ht20	5200	100	100	100	0	NA	0.010
802.11n ht40	5190	100	100	100	0	NA	0.010
802.11ac vht80	5210	100	100	100	0	NA	0.010

5250-5350MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5280	100	100	100	0	NA	0.010
802.11n ht20	5280	100	100	100	0	NA	0.010
802.11n ht40	5270	100	100	100	0	NA	0.010
802.11ac vht80	5290	100	100	100	0	NA	0.010

5470-5725MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5580	100	100	100	0	NA	0.010
802.11n ht20	5580	100	100	100	0	NA	0.010
802.11n ht40	5550	100	100	100	0	NA	0.010
802.11ac vht80	5610	100	100	100	0	NA	0.010

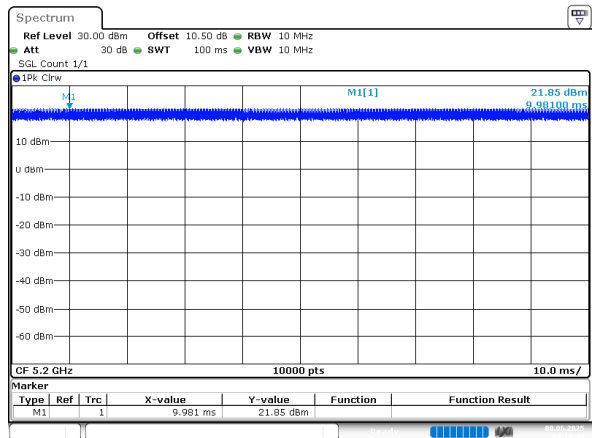
5725-5850MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5785	100	100	100	0	NA	0.010
802.11n ht20	5785	100	100	100	0	NA	0.010
802.11n ht40	5755	100	100	100	0	NA	0.010
802.11ac vht80	5775	100	100	100	0	NA	0.010

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

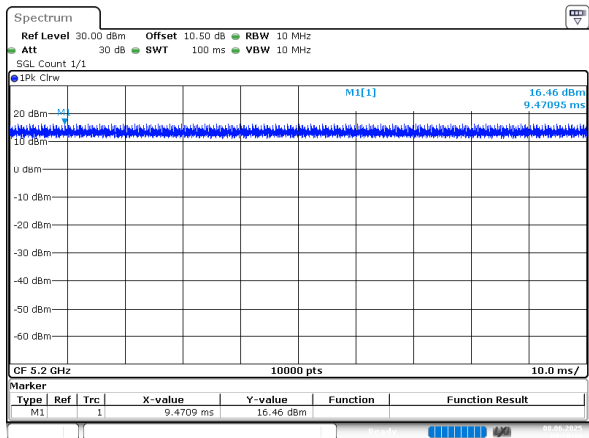
5150-5250MHz

802.11a_5200MHz



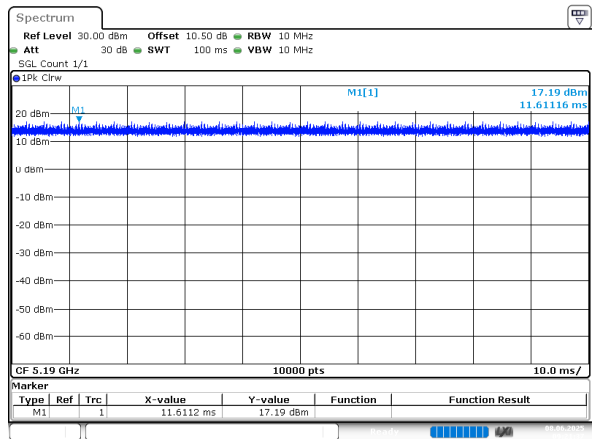
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Date: 8.JUN.2025 09:18:39

802.11n ht20_5200MHz



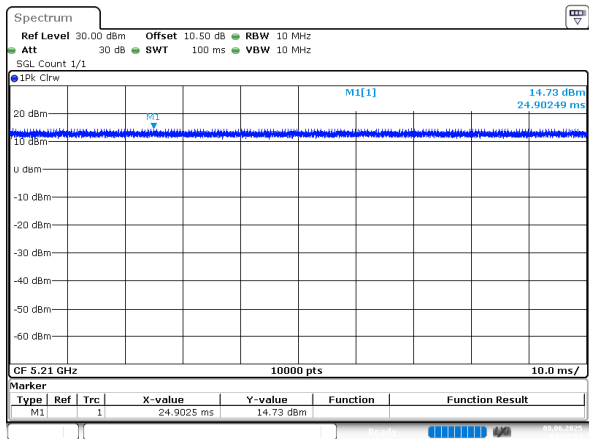
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Date: 8.JUN.2025 09:20:17

802.11n ht40_5190MHz



ProjectNo.:2502S54931E-RF Tester:Conor Fu
Date: 8.JUN.2025 09:21:37

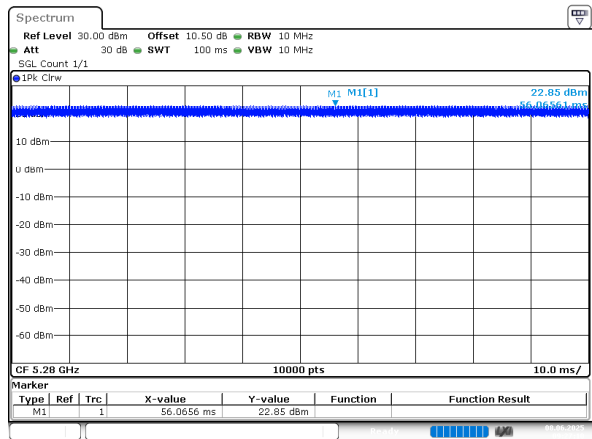
802.11ac vht80_5210MHz



ProjectNo.:2502S54931E-RF Tester:Conor Fu
Date: 8.JUN.2025 09:22:55

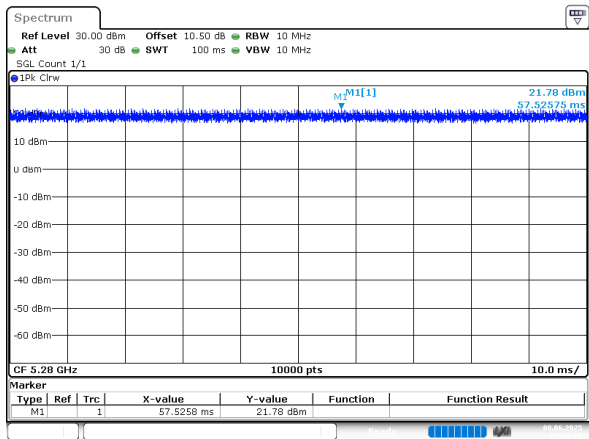
5250-5350MHz

802.11a_5280MHz



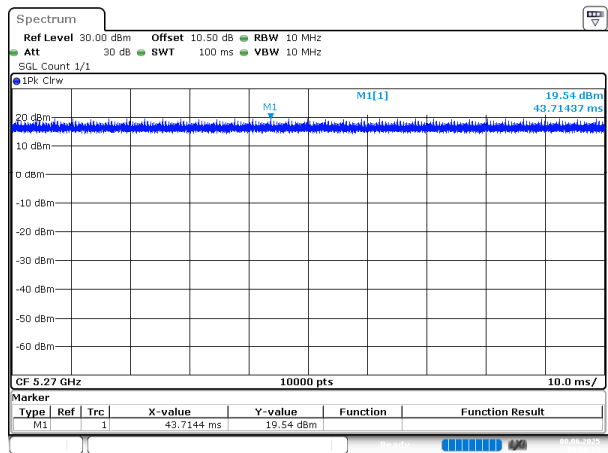
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Date: 8.JUN.2025 09:27:11

802.11n ht20_5280MHz

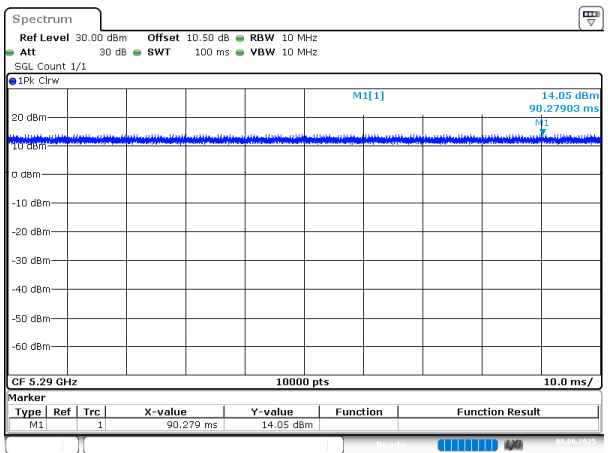


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Date: 8.JUN.2025 09:28:20

802.11n ht40_5270MHz

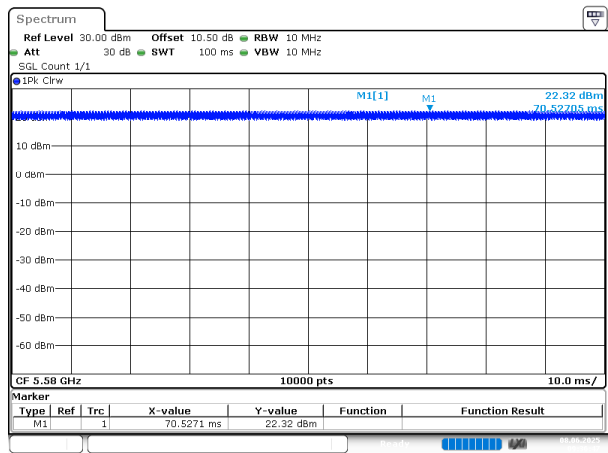


802.11ac vht80_5290MHz

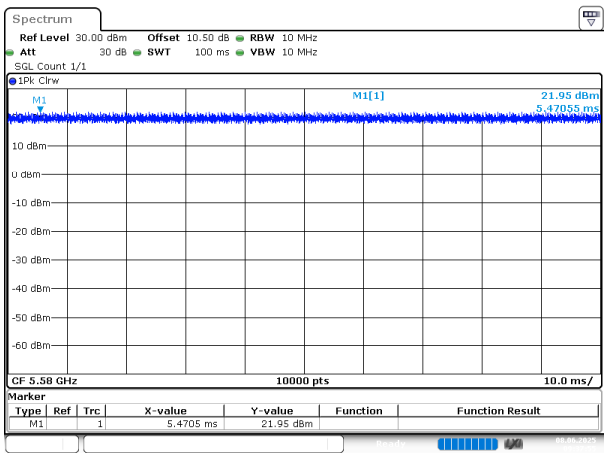


5470-5725MHz

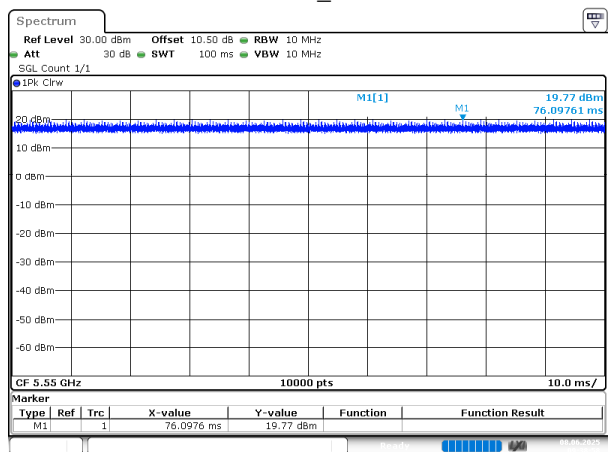
802.11a_5580MHz



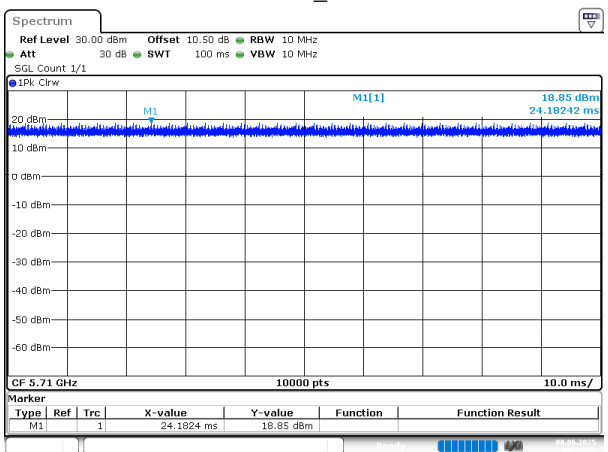
802.11n ht20_5580MHz



802.11n ht40_5550MHz



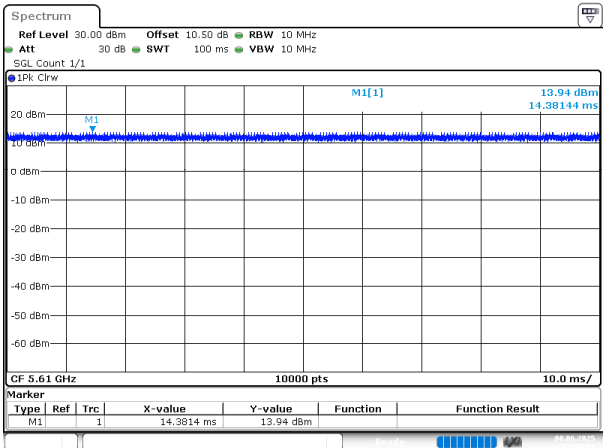
802.11n ht40_5710MHz



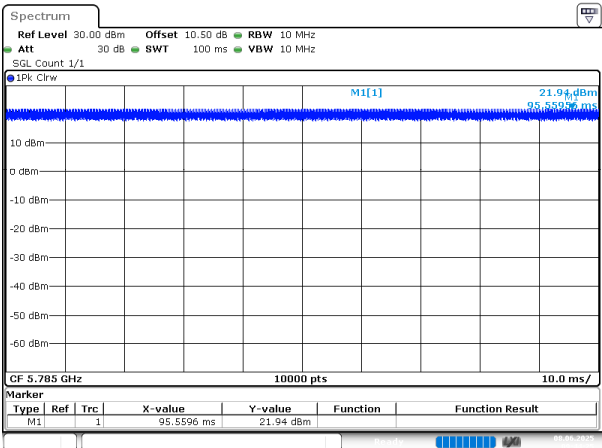
5725-5850MHz

802.11ac vht80_5610MHz

802.11a_5785MHz



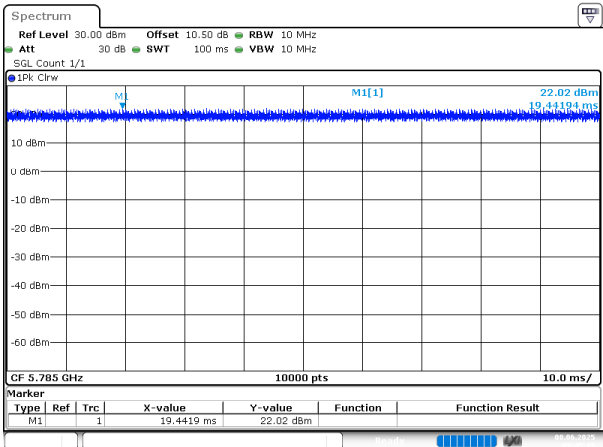
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Date: 8.JUN.2025 09:41:00



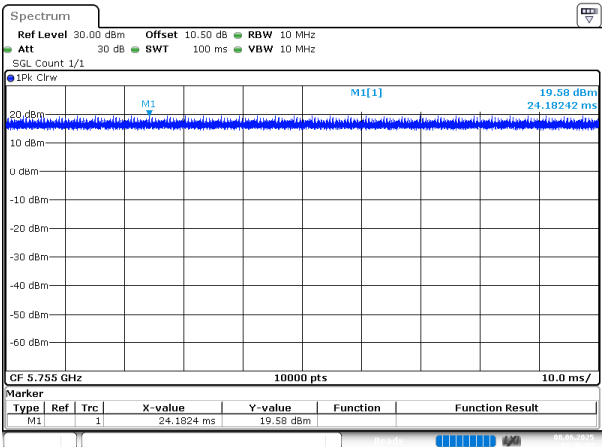
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Date: 8.JUN.2025 09:44:25

802.11n ht20_5785MHz

802.11n ht40_5755MHz

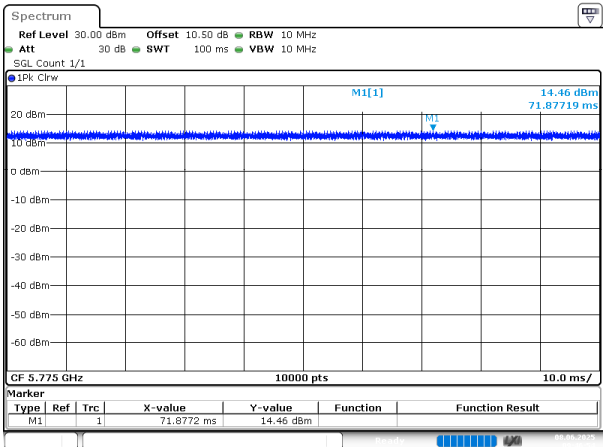


ProjectNo.:2502S54931E-RF Tester:Conor Pu
Date: 8.JUN.2025 09:45:15



ProjectNo.:2502S54931E-RF Tester:Conor Pu
Date: 8.JUN.2025 09:46:08

802.11ac vht80_5775MHz



ProjectNo.:2502S54931E-RF Tester:Conor Pu
Date: 8.JUN.2025 09:46:55

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502S54931E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502S54931E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502S54931E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

Maximum Permissible Exposure (MPE)

Applicable Standard

According to subpart §1.1310, 15.247(i) and 15.407(f) systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Conducted Average Output Power including Tune-up Tolerance [▲]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G WIFI	2412-2462	8.20	6.607	22.5	177.83	20	0.2339	1.0
5G WIFI	5150-5250	5.69	3.707	15	31.62	20	0.0233	1.0
	5250-5350	5.69	3.707	18	63.10	20	0.0466	1.0
	5470-5725	5.17	3.289	18.5	70.79	20	0.0463	1.0
	5725-5850	4.10	2.570	18.5	70.79	20	0.0362	1.0

Note:

The Conducted Average Output Power including Tune-up Tolerance provided by manufacturer.

2.4G WiFi and 5G WiFi can't transmit simultaneously.

Result: The device meets FCC MPE at 20 cm distance

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