

Snap One, LLC

TEST REPORT

Model:

LUM-420-W-FLSB, LUM-420-W-FLSW

REPORT NUMBER

240900193THC-001

ISSUE DATE

Sep. 18, 2025

PAGES

191

DOCUMENT CONTROL NUMBER

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Radio Spectrum TEST REPORT

Applicant:	Snap One, LLC 1800 Continental Blvd. Suite 200-300 Charlotte, NC 28273 USA
Product:	Floodlight Camera
Model No.:	LUM-420-W-FLSB, LUM-420-W-FLSW
FCC ID:	2AJAC-LUM420FLS
Test Method/ Standard:	47 CFR FCC Part 15.407 KDB 789033 D02 v02r01 ANSI C63.10 2013 KDB 662911 D01 v02r01 KDB 905462 D02 v02
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist, Hsinchu City 300075, Taiwan



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TEST REPORT

Revision History

Report No.	Issue Date	Revision Summary
240900193THC-001	Sep. 18, 2025	Original report

Table of Contents

1. General Information	6
1.1 Identification of the EUT	6
1.2 Additional information about the EUT	6
1.3 Antenna description	6
1.4 Description of the EUT	7
1.5 Peripherals equipment	7
1.6 Operation mode	8
2. Maximum Conducted Output Power	9
2.1 Limit for maximum output power	9
2.2 Measuring instrument setting.....	9
2.3 Test procedure.....	9
2.4 Test diagram	9
2.5 Test results.....	10
3. Power Spectrum Density	33
3.1 Limit for power spectrum density	33
3.2 Measuring instrument setting.....	33
3.3 Test procedure.....	34
3.4 Test diagram	34
3.5 Test results.....	35
4. Minimum Bandwidth.....	59
4.1 Limit for minimum emission bandwidth.	59
4.2 Measuring instrument setting.....	59
4.3 Test procedure.....	60
4.4 Test diagram	60
4.5 Test results.....	61
5. Emissions in Restricted Frequency Bands (Radiated emission measurements)	114
5.1 Limit for emission in restricted frequency bands (Radiated emission measurement)	114
5.2 Measuring instrument setting.....	115
5.3 Test procedure.....	116
5.4 Test configuration	117
5.4.1 Radiated emission from 9 kHz to 30MHz using Loop Antenna	117
5.5 Test results.....	119
5.5.1 Measurement results: frequencies from 9 kHz to 30MHz	119
5.5.2 Measurement results: frequencies from 30 MHz to 1GHz	121
5.5.3 Measurement results: frequency above 1GHz to 40GHz.....	122
6. Emission on The Band Edge.....	130
6.1 Measuring instrument setting.....	130
6.2 Test procedure.....	130
6.3 Limit for Band Edge (Radiated emission measurement).....	130

6.4 Test Result.....	131
7. Dynamic Frequency Selection (DFS) test.....	170
7.1 UNII Device Description.....	170
7.2 Operating mode	171
7.3 Test Protocol and Requirements	171
7.4 DFS Detection Thresholds and Limitations of each Parameter.....	173
7.5 Radar Test Waveforms.....	174
7.6 Radar Waveform Calibration	177
7.6.1 Radar Waveform Calibration Plot.....	178
7.7 Test instruments and setup	179
7.7.1 Deviation about the radar waveform	179
7.7.2 Test setup	179
7.8 DFS test results	179
7.8.1 Test summary	179
7.8.2 DFS test result.....	180
7.8.2.1 Channel Move & Closing Transmission time	181
7.9 Non-Occupancy Period.....	183
8. AC Power Line Conducted Emission	185
8.1 Measuring instrument setting.....	185
8.2 Test Procedure.....	185
8.3 Test Diagram	186
8.4 Limit.....	186
8.5 Test Results	187
Appendix A: Test equipment list.....	189
Appendix B: Measurement Uncertainty.....	191

Summary of Test Data

Test Requirement	Applicable Rule (Section 15.407)	Result
Maximum Conducted Output Power	15.407 (a)(1)/(2)/(3) KDB 789033 D02 v01r02	Pass
Power Spectrum Density	15.407 (a)(1)/(2)/(3) KDB 789033 D02 v01r02	Pass
Minimum Emission Bandwidth	15.407(a)(5), 15.407(e) KDB 789033 D02 v01r02	Pass
Emissions In Restricted Frequency Bands (Radiated emission measurements)	15.407(b), 15.209	Pass
Emission on The Band Edge	15.407(b), 15.209	Pass
Dynamic Frequency Selection (DFS)	15.407(h)(2)	Pass
AC Line Conducted Emission	15.407(b)(6) 15.207	Pass
Antenna requirement	15.203	Pass

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

1. General Information

1.1 Identification of the EUT

Product:	Floodlight Camera
Model No.:	LUM-420-W-FLSW
Operating Frequency:	1. 5180MHz~5240MHz 2. 5260MHz~5320MHz 3. 5500MHz~5700MHz 4. 5745MHz~5825MHz
Channel Number:	1. 7 channels for 5180MHz~5240MHz 2. 7 channels for 5260MHz~5320MHz 3. 12 channels for 5500MHz~5700MHz 4. 8 channels for 5745MHz~5825MHz
Access scheme:	OFDM
Rating:	100-240Vac, 50/60Hz
Power Cord:	N/A
Sample receiving date:	2024/09/19
Sample condition:	Workable
Test Date(s):	2025/05/08 ~ 2025/07/18

1.2 Additional information about the EUT

The customer confirmed the models listed are difference between as below:

Model Number	Different
LUM-420-W-FLSB	Color difference, Black
LUM-420-W-FLSW	Color difference, White

1.3 Antenna description

Antenna Gain	: 5.5 dBi
Antenna Type	: Dipole antenna
Connector Type	: I-Pex

1.4 Description of the EUT

Modulation mode	Transmit path
	Chain 0 / Main
802.11 a	V
802.11 ac (VHT20)	V
802.11 ac (VHT40)	V
802.11 ac (VHT80)	V
802.11 ax (HE20)	V
802.11 ax (HE40)	V
802.11 ax (HE80)	V

1.5 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.
Notebook PC	HP	HP Probook 440 G3	5CD8021S9H
Router	ASUS	RT-AX88U Pro	R2IG6800458249F

Peripheral name	Length	Shielded(Y/N)	Brand	Model No.
RJ-45 cable	1m	N	Multicomp	SPC20060

1.6 Operation mode

- (1) EUT connected to Notebook PC LAN port, executing “tera term” and enter command to select different frequency and modulation.
- (2) With individual verifying, the maximum output power were found out 6 Mbps data rate for 802.11a mode, MCS0 data rate for 802.11ac(VHT20) mode, MCS0 data rate for 802.11ac(VHT40) mode , MCS0 data rate for 802.11ac(VHT80) mode, MCS0 data rate for 802.11ax(HE20) mode, MCS0 data rate for 802.11ax(HE40) mode , MCS0 data rate for 802.11ax(HE80) mode the final tests were executed under these conditions recorded in this report individually.

Mode	Data rate(Mbps)	Signal on time(s)	Total signal transmit time (s)	Duty cycle	Duty Cycle factor
802.11a	6 Mbps	0.337	0.344	0.978	0.096
802.11ac(VHT20)	MCS0	0.329	0.337	0.978	0.098
802.11ac(VHT40)	MCS0	0.181	0.188	0.963	0.165
802.11ac(VHT80)	MCS0	0.106	0.111	0.949	0.228
802.11ax(HE20)	MCS0	0.274	0.282	0.973	0.117
802.11ax(HE40)	MCS0	0.166	0.173	0.957	0.192
802.11ax(HE80)	MCS0	0.114	0.120	0.952	0.212

2. Maximum Conducted Output Power

2.1 Limit for maximum output power

Operating Frequency (MHz)	Conducted output power limit
5150~5725	< 0.25 W (24 dBm)
5725~5850	< 1 W (30 dBm)

Operating Frequency (MHz)	Maximum E.I.R.P. limit
5150~5725	< 1 W (30 dBm)
5725~5850	< 4 W (36 dBm)

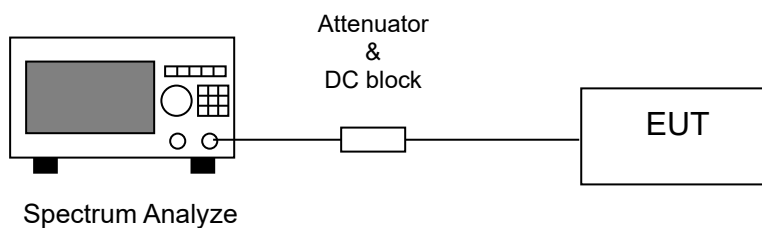
2.2 Measuring instrument setting

Spectrum Analyzer function	Setting
RBW	=1 MHz
VBW	≥ 3 MHz
Sweep time	Auto couple
Detector	RMS
Trace	Average
Span	Encompass the EBW
Attenuation	Auto
Sweep point	≥ 2 Span / RBW

2.3 Test procedure

Test procedures refer to clause E) 2) d) Method SA-2 of KDB 789033 D02 v02r01

2.4 Test diagram



2.5 Test results

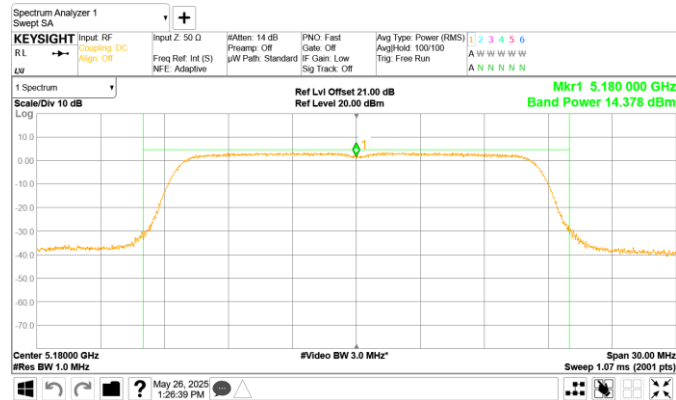
Temperature (°C) :	26
Relative Humidity (%) :	70
Test date :	2025/05/26 ~ 2025/07/18

Mode	Channel	Frequency (MHz)	Measure Power (AV@dBm)	Duty Factor (dBm)	Result		Limit of Conducted Power (dBm)	Margin (dBm)	Antenna Gain (dBm)	E.I.R.P. (dB)	Limit of E.I.R.P. (dBm)	Margin (dB)
					mW	(dBm)						
802.11a	36	5180	14.38	0.10	28.03	14.48	24	-9.52	5.5	19.98	30	-10.02
	44	5220	14.21	0.10	26.95	14.31	24	-9.69	5.5	19.81	30	-10.19
	48	5240	14.17	0.10	26.70	14.27	24	-9.73	5.5	19.77	30	-10.23
	52	5260	17.02	0.10	51.47	17.12	24	-6.88	5.5	22.62	30	-7.38
	60	5300	16.65	0.10	47.27	16.75	24	-7.25	5.5	22.25	30	-7.75
	64	5320	15.52	0.10	36.44	15.62	24	-8.38	5.5	21.12	30	-8.88
	100	5500	21.23	0.10	135.70	21.33	24	-2.67	5.5	26.83	30	-3.17
	116	5580	21.47	0.10	143.41	21.57	24	-2.43	5.5	27.07	30	-2.93
	140	5700	20.82	0.10	123.47	20.92	24	-3.08	5.5	26.42	30	-3.58
	149	5745	20.73	0.10	120.94	20.83	30	-9.17	5.5	26.33	36	-9.67
	157	5785	20.89	0.10	125.48	20.99	30	-9.01	5.5	26.49	36	-9.51
	165	5825	20.93	0.10	126.64	21.03	30	-8.97	5.5	26.53	36	-9.47
802.11ac (VHT20)	36	5180	14.28	0.10	27.40	14.38	24	-9.62	5.5	19.88	30	-10.12
	44	5220	14.14	0.10	26.53	14.24	24	-9.76	5.5	19.74	30	-10.26
	48	5240	14.13	0.10	26.47	14.23	24	-9.77	5.5	19.73	30	-10.27
	52	5260	17.79	0.10	61.49	17.89	24	-6.11	5.5	23.39	30	-6.61
	60	5300	16.35	0.10	44.14	16.45	24	-7.55	5.5	21.95	30	-8.05
	64	5320	17.56	0.10	58.32	17.66	24	-6.34	5.5	23.16	30	-6.84
	100	5500	17.67	0.10	59.81	17.77	24	-6.23	5.5	23.27	30	-6.73
	116	5580	21.16	0.10	133.59	21.26	24	-2.74	5.5	26.76	30	-3.24
	140	5700	20.58	0.10	116.89	20.68	24	-3.32	5.5	26.18	30	-3.82
	149	5745	20.54	0.10	115.82	20.64	30	-9.36	5.5	26.14	36	-9.86
	157	5785	20.51	0.10	115.02	20.61	30	-9.39	5.5	26.11	36	-9.89
	165	5825	20.79	0.10	122.68	20.89	30	-9.11	5.5	26.39	36	-9.61
802.11ac (VHT40)	38	5190	15.52	0.17	37.03	15.69	24	-8.31	5.5	21.19	30	-8.81
	46	5230	17.14	0.17	53.77	17.31	24	-6.69	5.5	22.81	30	-7.19
	54	5270	17.87	0.17	63.61	18.04	24	-5.96	5.5	23.54	30	-6.46
	62	5310	12.68	0.17	19.25	12.85	24	-11.15	5.5	18.35	30	-11.65
	102	5510	17.68	0.17	60.89	17.85	24	-6.15	5.5	23.35	30	-6.65
	110	5550	18.67	0.17	76.48	18.84	24	-5.16	5.5	24.34	30	-5.66
	134	5670	20.37	0.17	113.12	20.54	24	-3.46	5.5	26.04	30	-3.96
	151	5755	19.90	0.17	101.51	20.07	30	-9.93	5.5	25.57	36	-10.43
	159	5795	20.62	0.17	119.82	20.79	30	-9.21	5.5	26.29	36	-9.71

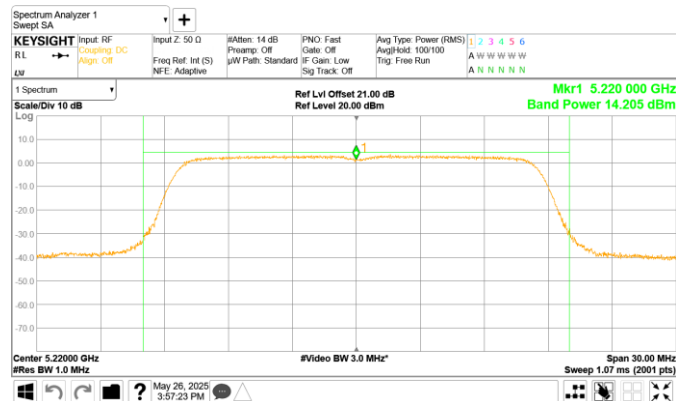
TEST REPORT

Mode	Channel	Frequency (MHz)	Measure Power (AV@dBm)	Duty Factor (dBm)	Result		Limit of Conducted Power (dBm)	Margin (dBm)	Antenna Gain (dBm)	E.I.R.P. (dB)	Limit of E.I.R.P. (dBm)	Margin (dB)
					mW	(dBm)						
802.11ac (VHT80)	42	5210	15.19	0.23	34.82	15.42	24	-8.58	5.5	20.92	30	-9.08
	58	5290	12.24	0.23	17.65	12.47	24	-11.53	5.5	17.97	30	-12.03
	106	5530	14.75	0.23	31.47	14.98	24	-9.02	5.5	20.48	30	-9.52
	155	5775	20.21	0.23	110.62	20.44	30	-9.56	5.5	25.94	36	-10.06
802.11ax (HE20)	36	5180	14.67	0.12	30.11	14.79	24	-9.21	5.5	20.29	30	-9.71
	44	5220	14.54	0.12	29.22	14.66	24	-9.34	5.5	20.16	30	-9.84
	48	5240	14.50	0.12	28.96	14.62	24	-9.38	5.5	20.12	30	-9.88
	52	5260	16.07	0.12	41.57	16.19	24	-7.81	5.5	21.69	30	-8.31
	60	5300	13.52	0.12	23.11	13.64	24	-10.36	5.5	19.14	30	-10.86
	64	5320	15.40	0.12	35.62	15.52	24	-8.48	5.5	21.02	30	-8.98
	100	5500	18.44	0.12	71.73	18.56	24	-5.44	5.5	24.06	30	-5.94
	116	5580	20.08	0.12	104.65	20.20	24	-3.80	5.5	25.70	30	-4.30
	140	5700	19.54	0.12	92.41	19.66	24	-4.34	5.5	25.16	30	-4.84
	149	5745	19.64	0.12	94.56	19.76	30	-10.24	5.5	25.26	36	-10.74
	157	5785	19.69	0.12	95.66	19.81	30	-10.19	5.5	25.31	36	-10.69
802.11ax (HE40)	165	5825	19.82	0.12	98.57	19.94	30	-10.06	5.5	25.44	36	-10.56
	38	5190	14.85	0.19	31.93	15.04	24	-8.96	5.5	20.54	30	-9.46
	46	5230	17.10	0.19	53.61	17.29	24	-6.71	5.5	22.79	30	-7.21
	54	5270	17.28	0.19	55.88	17.47	24	-6.53	5.5	22.97	30	-7.03
	62	5310	12.55	0.19	18.80	12.74	24	-11.26	5.5	18.24	30	-11.76
	102	5510	16.38	0.19	45.42	16.57	24	-7.43	5.5	22.07	30	-7.93
	110	5550	20.32	0.19	112.52	20.51	24	-3.49	5.5	26.01	30	-3.99
	134	5670	19.59	0.19	95.11	19.78	24	-4.22	5.5	25.28	30	-4.72
	151	5755	19.48	0.19	92.74	19.67	30	-10.33	5.5	25.17	36	-10.83
802.11ax (HE80)	159	5795	19.95	0.19	103.34	20.14	30	-9.86	5.5	25.64	36	-10.36
	42	5210	13.38	0.21	22.87	13.59	24	-10.41	5.5	19.09	30	-10.91
	58	5290	11.60	0.21	15.18	11.81	24	-12.19	5.5	17.31	30	-12.69
	106	5530	13.18	0.21	21.84	13.39	24	-10.61	5.5	18.89	30	-11.11
	155	5775	19.74	0.21	98.90	19.95	30	-10.05	5.5	25.45	36	-10.55

Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch36



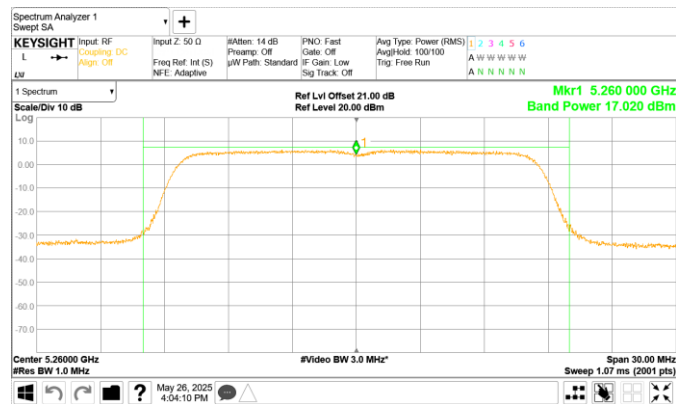
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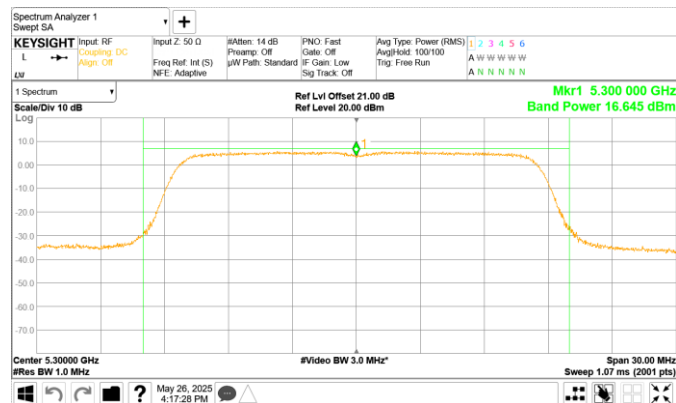
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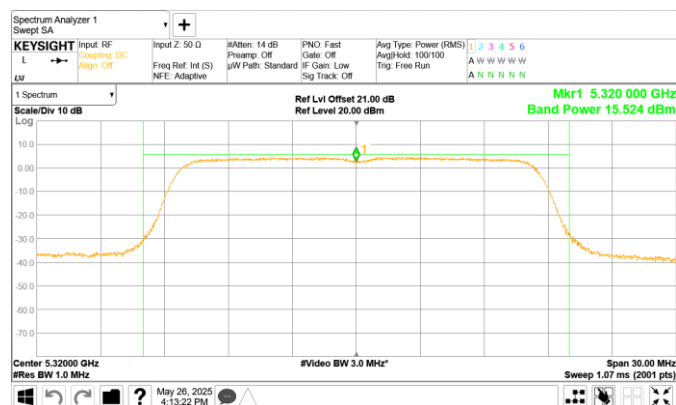
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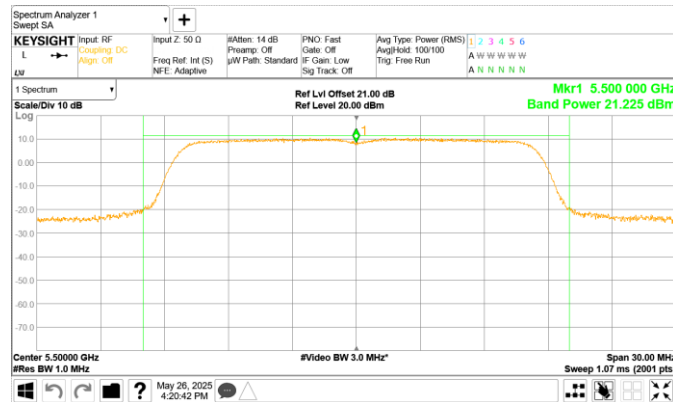
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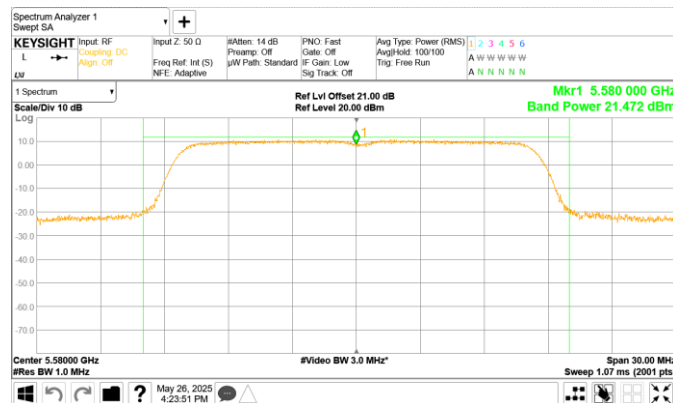
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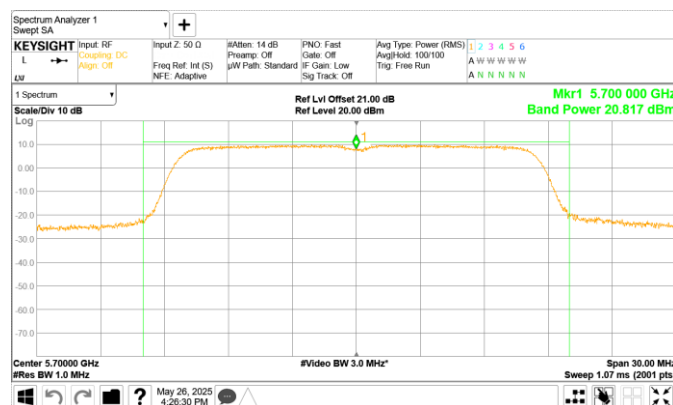
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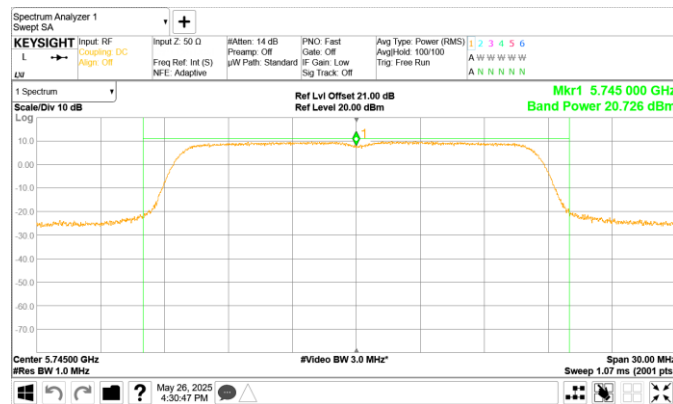
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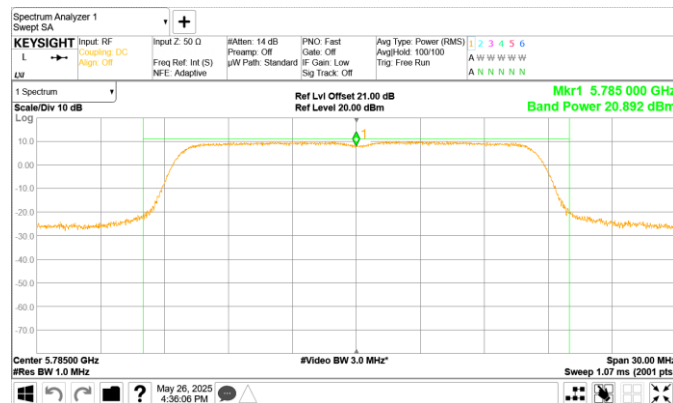
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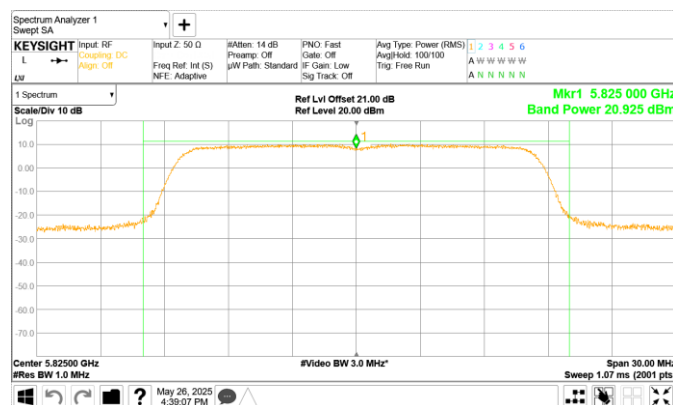
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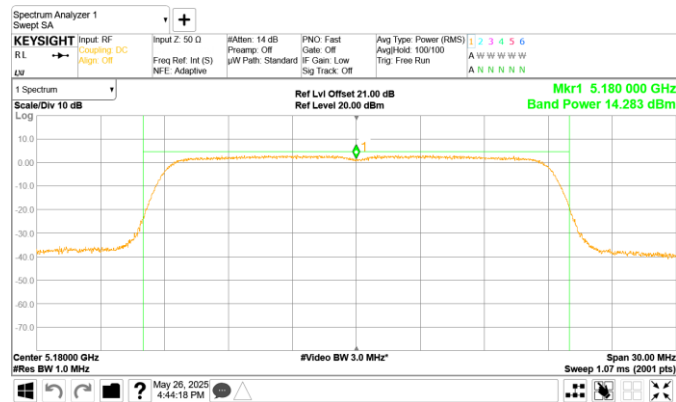
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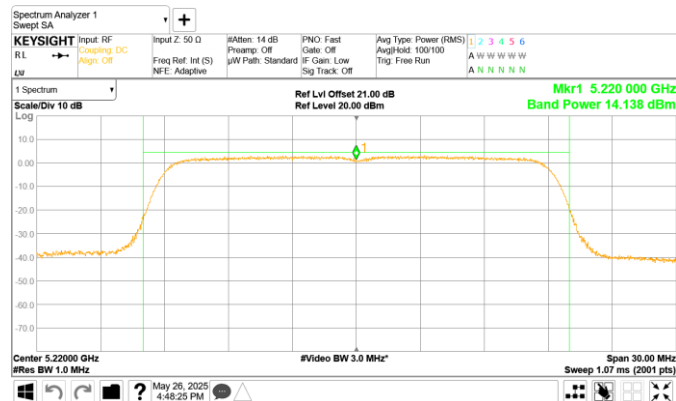
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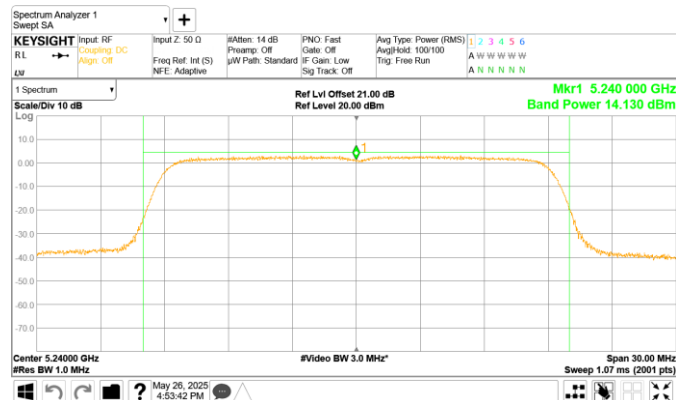
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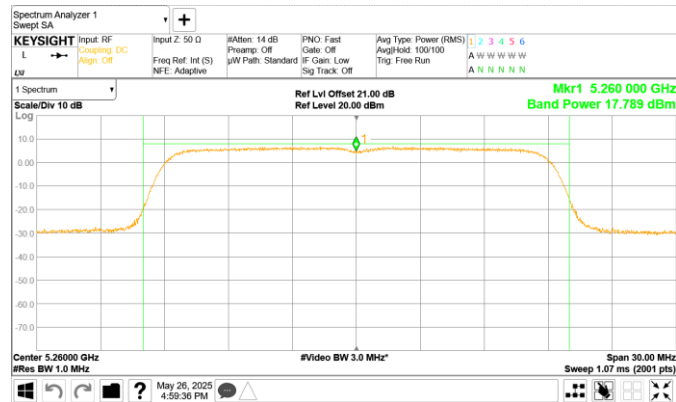
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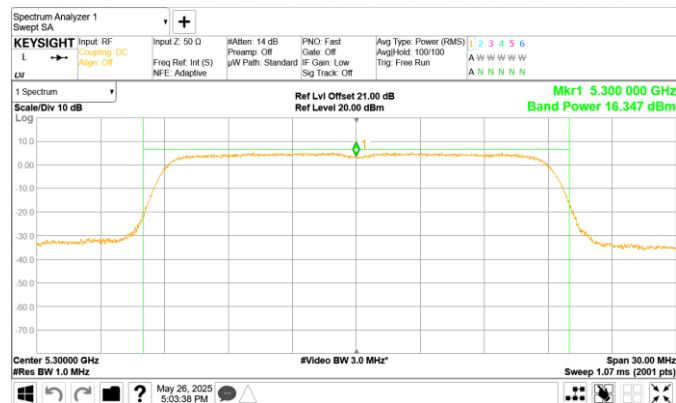
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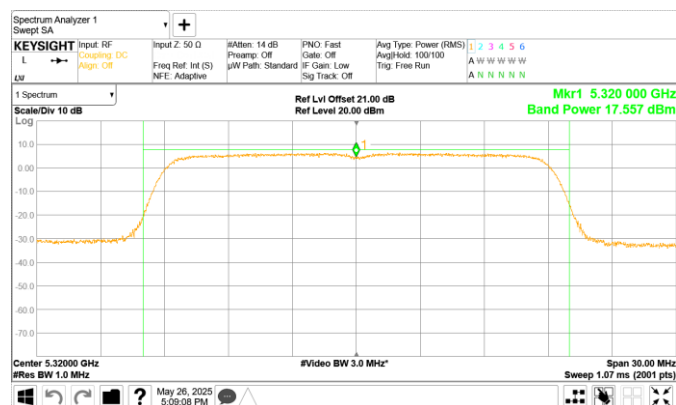
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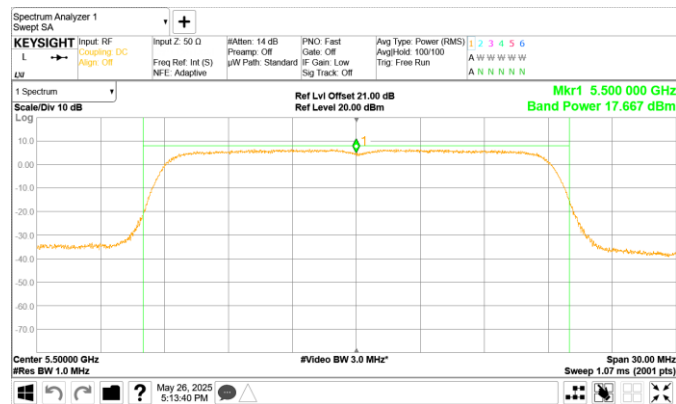
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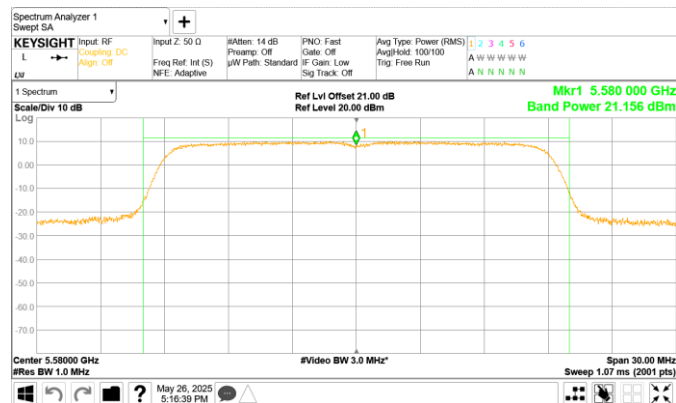
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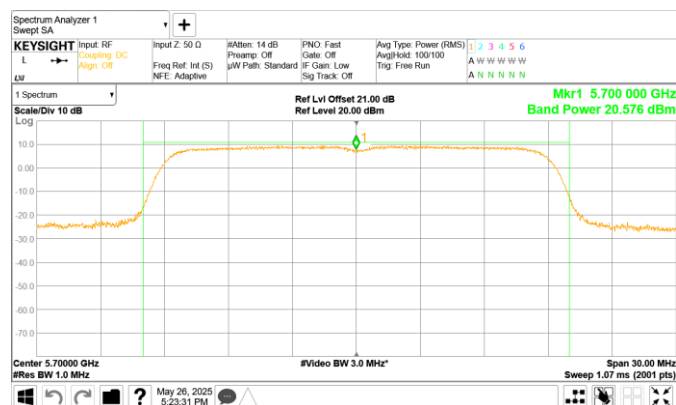
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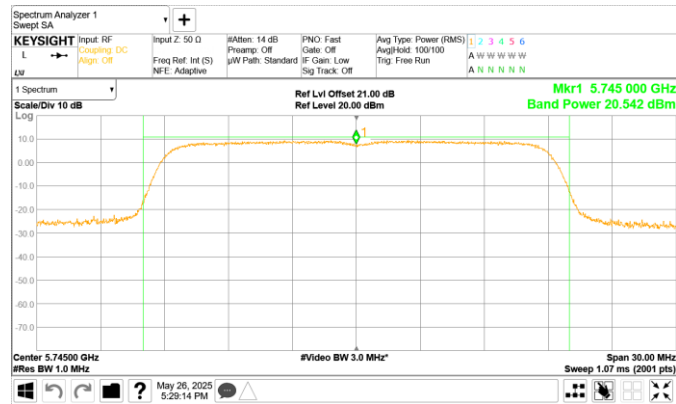
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch116



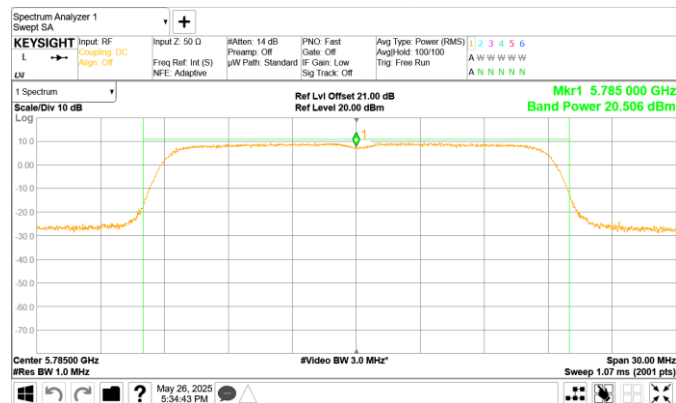
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch140



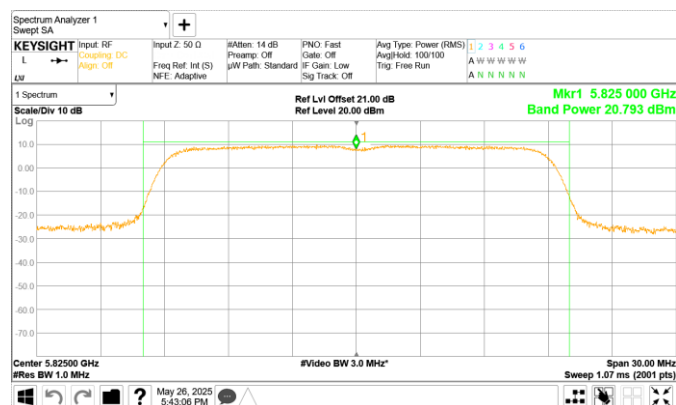
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch149



Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch157



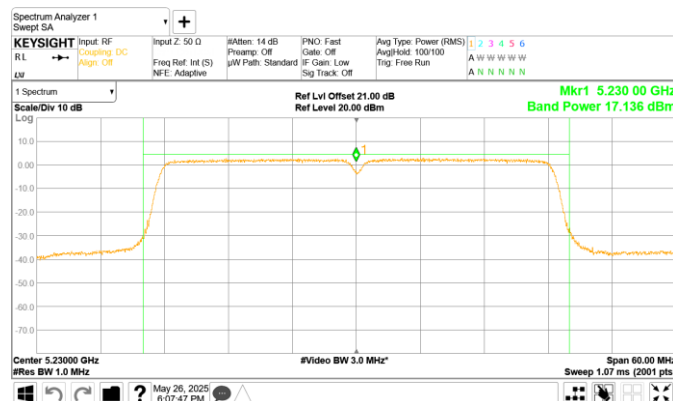
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch165



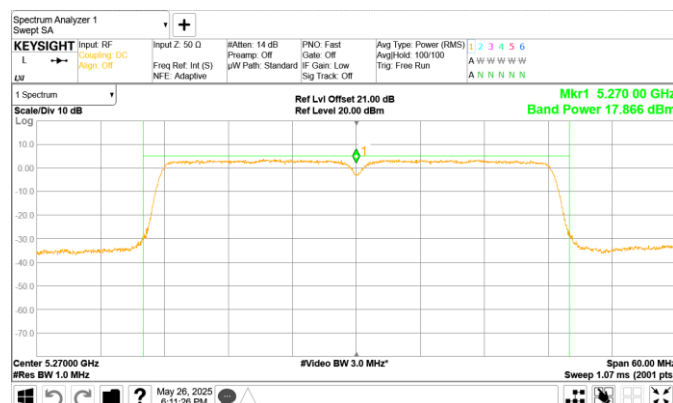
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch38



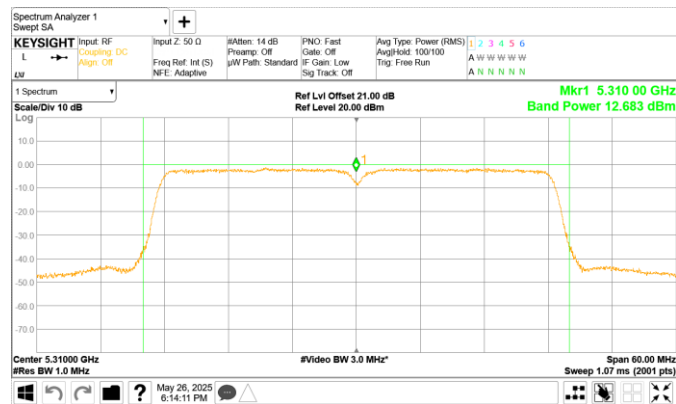
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch46



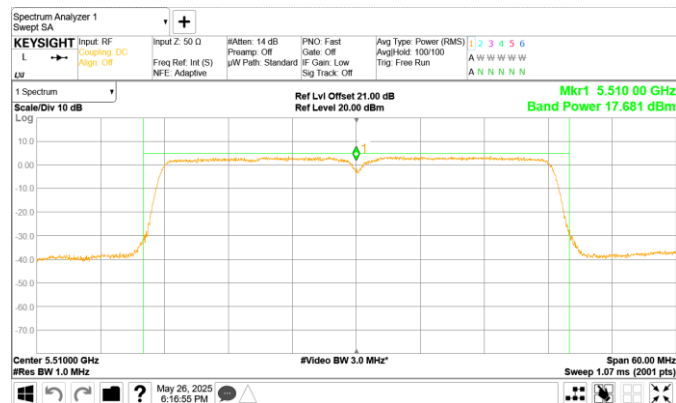
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch54



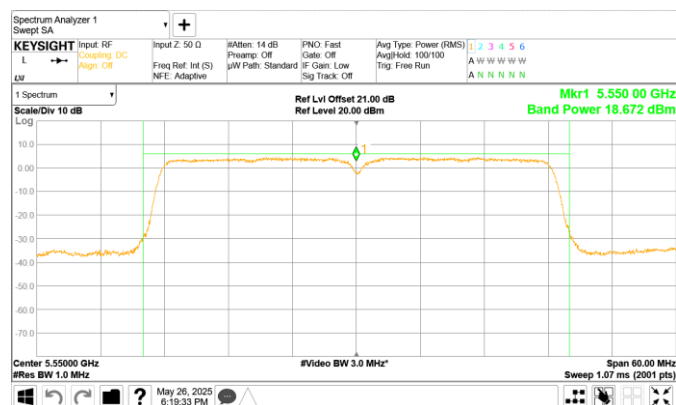
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch62



Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch102



Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch110



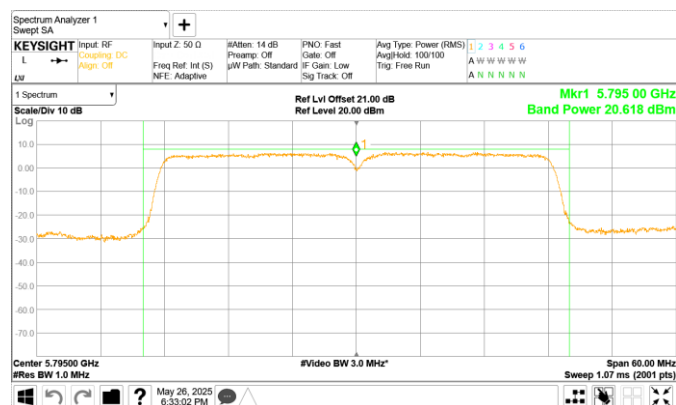
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch134



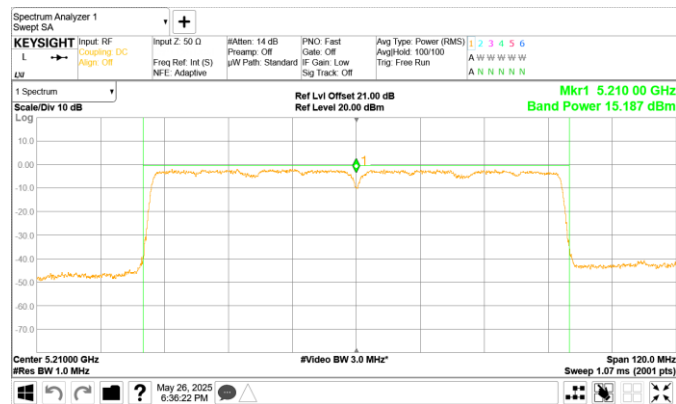
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch151



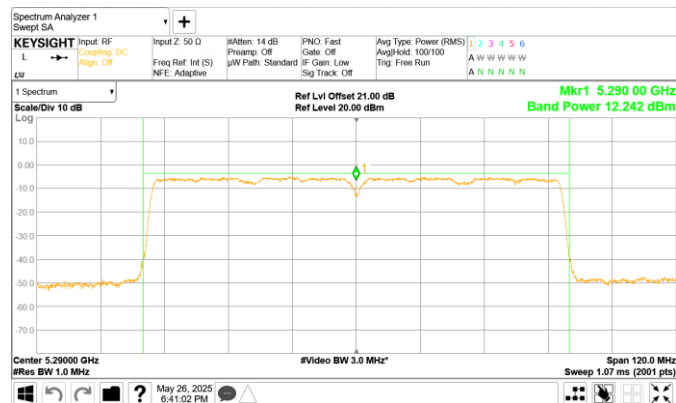
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch159



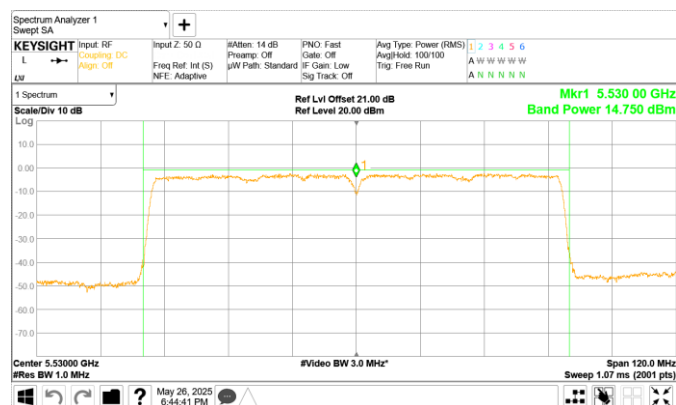
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch42



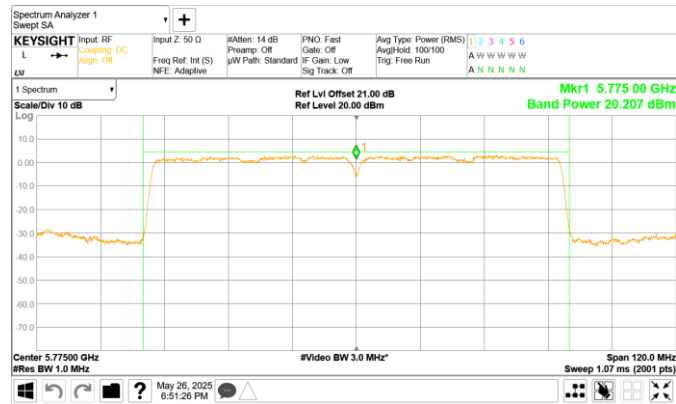
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch58



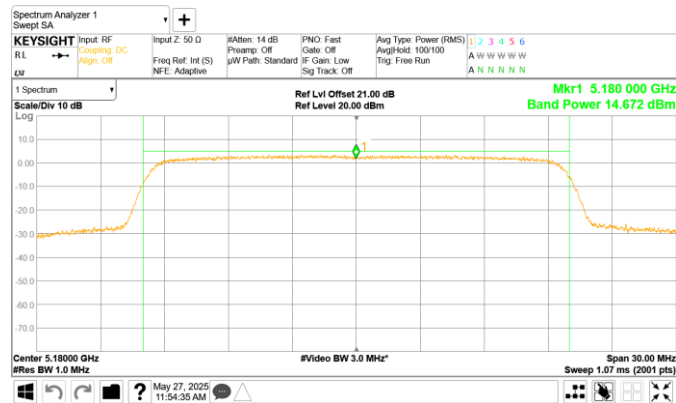
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch106



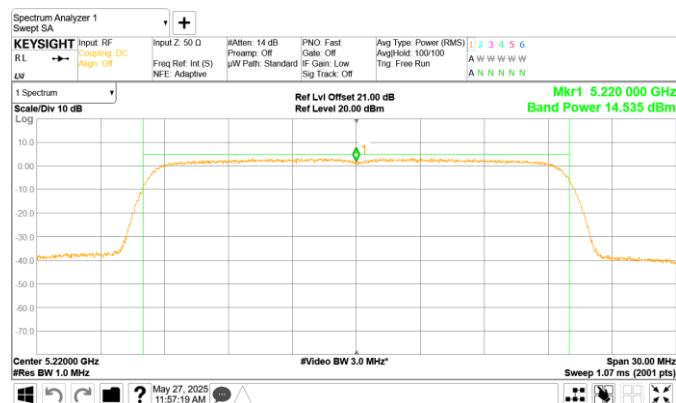
Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch155



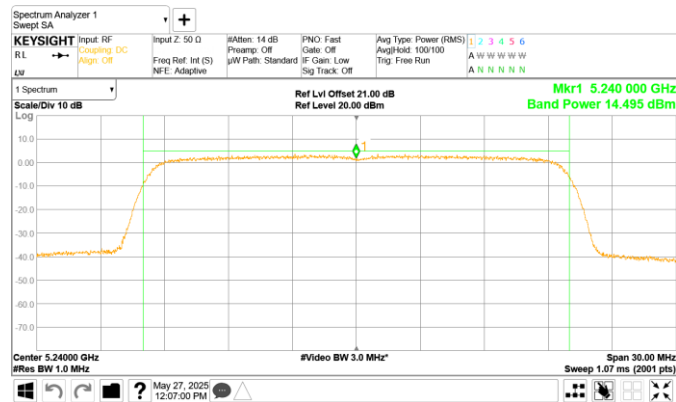
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch36



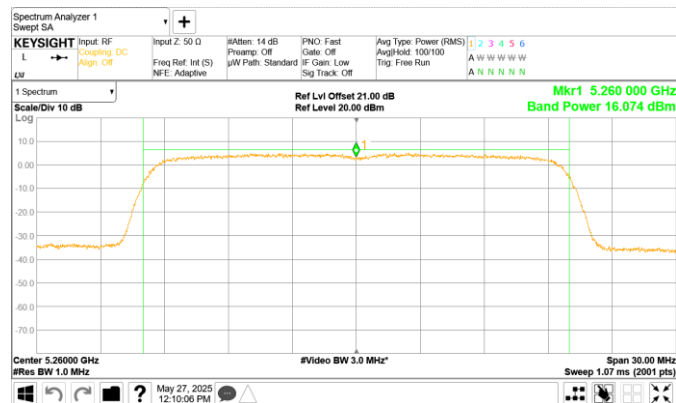
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch44



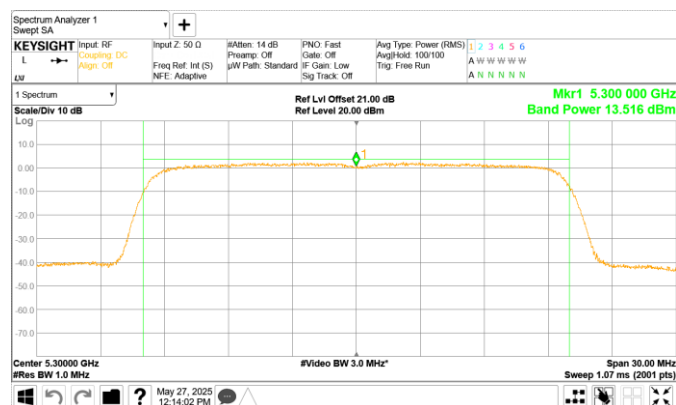
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch48



Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch52



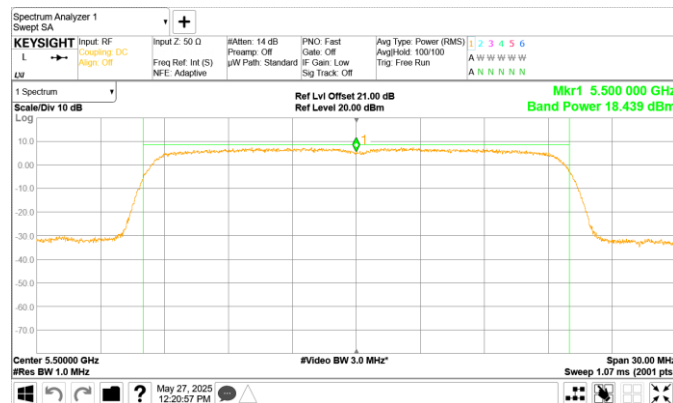
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch60



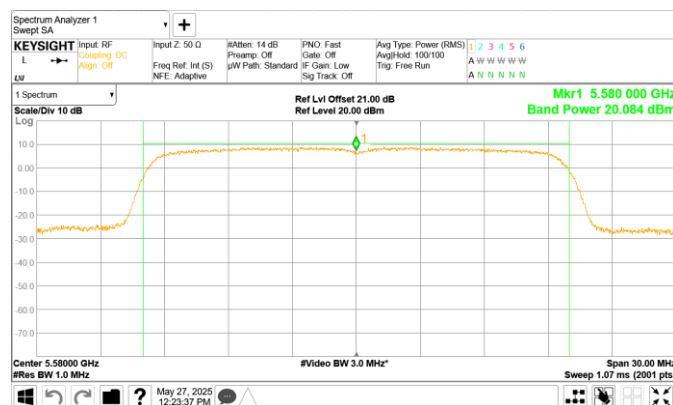
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch64



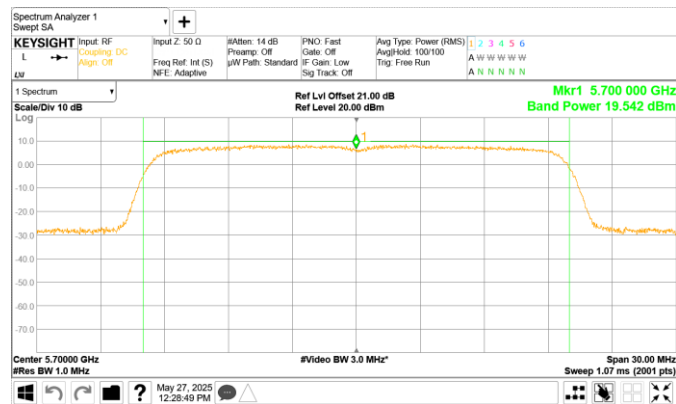
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch100



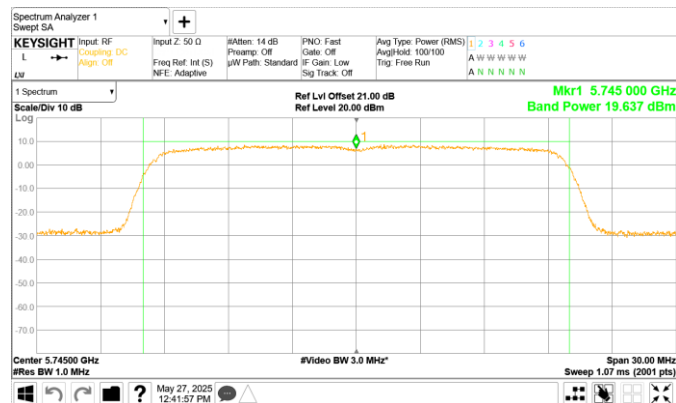
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch116



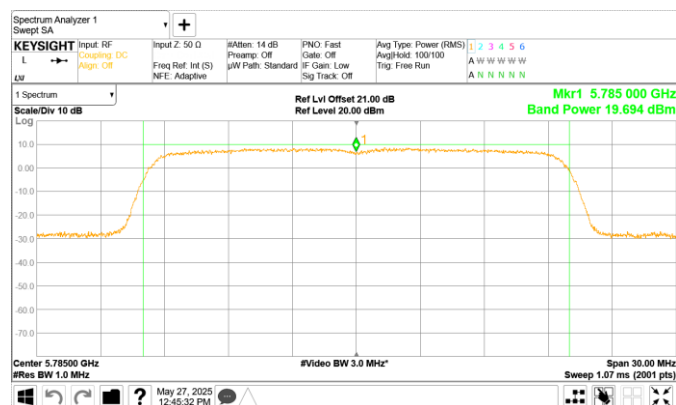
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch140



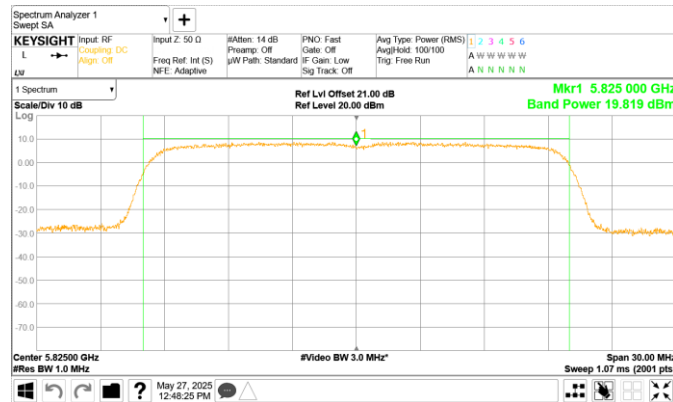
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch149



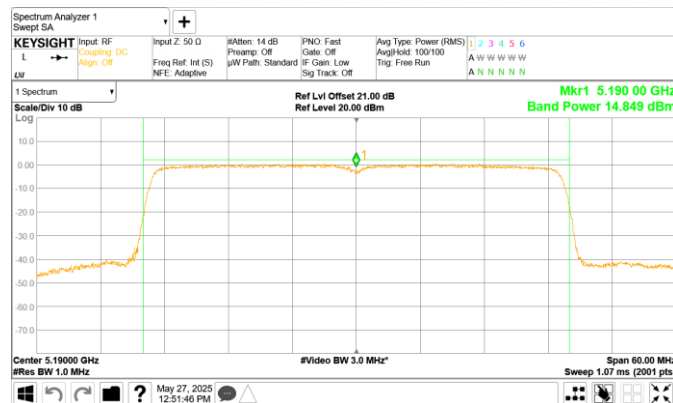
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch157



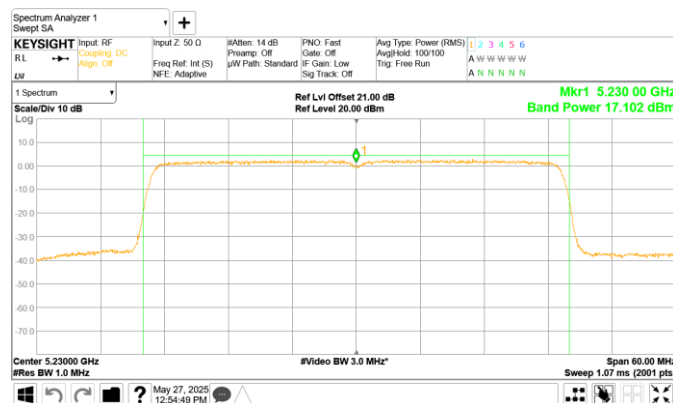
Chain0 : Conducted Power & EIRP @ 802.11ax(HE20) Mode Ch165



Chain0 : Conducted Power & EIRP @ 802.11ax(HE40) Mode Ch38



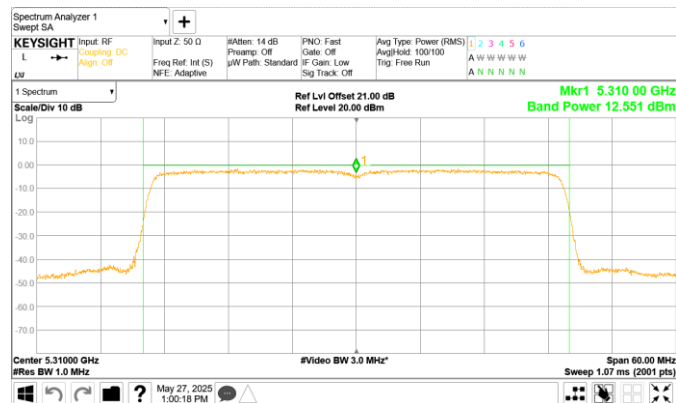
Chain0 : Conducted Power & EIRP @ 802.11ax(HE40) Mode Ch46



Chain0 : Conducted Power & EIRP @ 802.11ax(HE40) Mode Ch54



Chain0 : Conducted Power & EIRP @ 802.11ax(HE40) Mode Ch62



Chain0 : Conducted Power & EIRP @ 802.11ax(HE40) Mode Ch102

