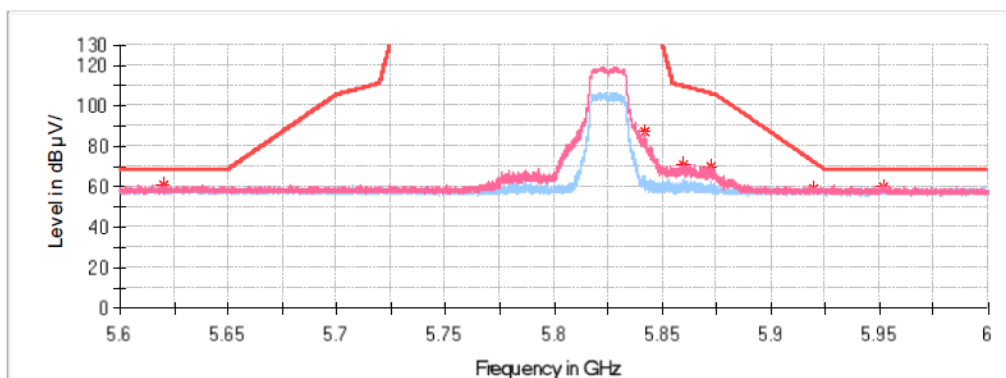


Common Information

Project No.: RKSA231222003
EUT Model: MWC-708
Test Mode: 802.11a Mode High Channel of Chain 0
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40、3115、2641-1
Temperature: 23.2℃
Humidity: 44%
Atmospheric pressure: 102.3KPa
Test Engineer: Peter Wang
Test Date: 2024/1/28

Full Spectrum



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5620.240000	60.87	---	68.20	7.33	V	10.7
5841.440000	86.83	---	131.20	44.37	V	10.4
5859.520000	70.55	---	109.53	38.98	V	10.4
5872.720000	70.22	---	105.84	35.62	V	10.4
5919.880000	59.41	---	71.99	12.58	V	10.3
5951.720000	60.13	---	68.20	8.07	V	10.3

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date:

RKSA231222003

MWC-708

802.11a Mode Low Channel of Chain 1

FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

ESU40、3115、2641-1

23.2℃

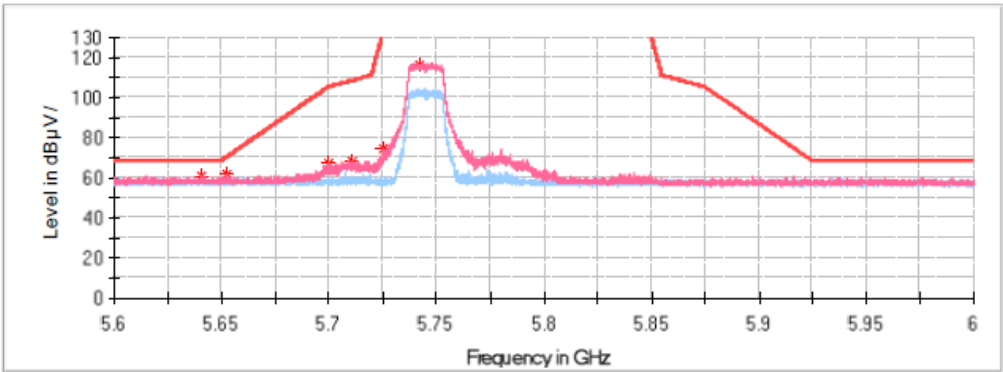
44%

102.3KPa

Peter Wang

2024/1/28

Full Spectrum



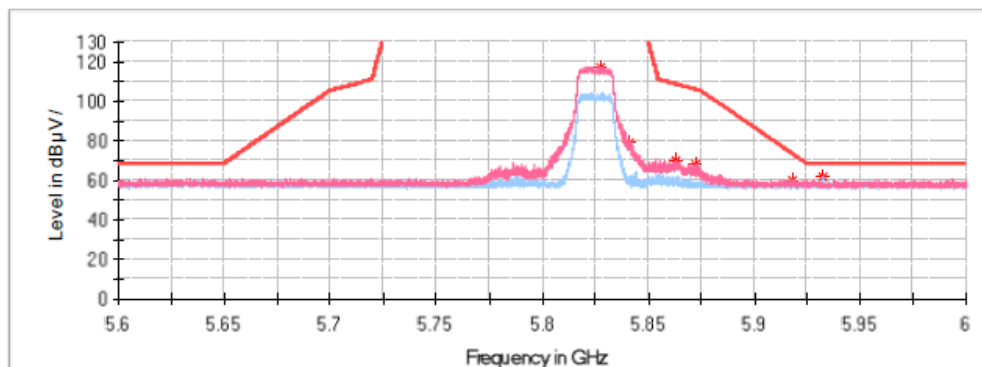
Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5640.440000	60.64	---	68.20	7.56	V	10.7
5652.680000	61.63	---	70.18	8.55	V	10.6
5699.680000	66.86	---	104.96	38.10	V	10.6
5710.480000	68.35	---	108.13	39.79	V	10.6
5725.400000	74.11	---	131.20	57.09	V	10.5
5741.680000	116.74	---	131.20	14.46	V	10.5

Common Information

Project No.: RKSA231222003
EUT Model: MWC-708
Test Mode: 802.11a Mode High Channel of Chain 1
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40、3115、2641-1
Temperature: 23.2℃
Humidity: 44%
Atmospheric pressure: 102.3KPa
Test Engineer: Peter Wang
Test Date: 2024/1/28

Full Spectrum



Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5827.720000	117.27	---	131.20	13.93	V	10.4
5841.200000	79.14	---	131.20	52.06	V	10.4
5862.640000	70.09	---	108.66	38.57	V	10.4
5872.320000	68.25	---	105.95	37.70	V	10.4
5917.680000	60.15	---	73.62	13.47	V	10.3
5932.480000	61.56	---	68.20	6.64	H	10.3

802.11ac20 Mode:

Common Information

Project No.:RKSA231222003

EUT Model:MWC-708

Test Mode:802.11ac20 Mode Low Channel of Chain 0&1

Standard:FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

Test Equipment:ESU40、3115、2641-1

Temperature:23.2℃

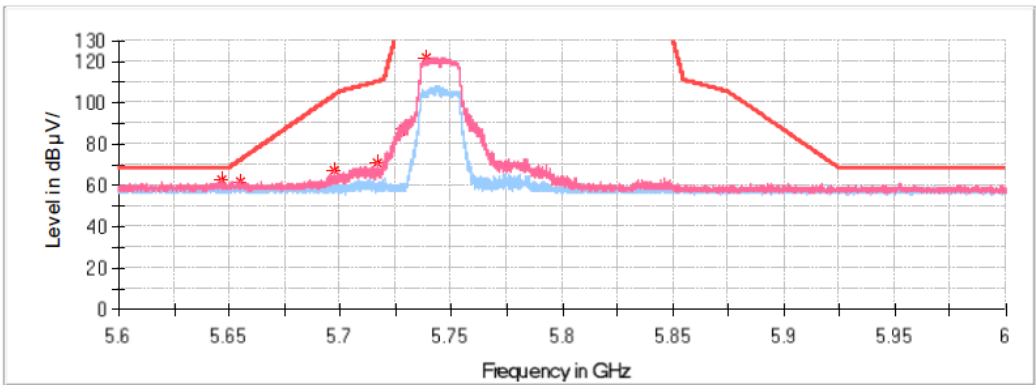
Humidity:44%

Atmospheric pressure:102.3KPa

Test Engineer:Peter Wang

Test Date:2024/1/28

Full Spectrum



Critical_Freqs

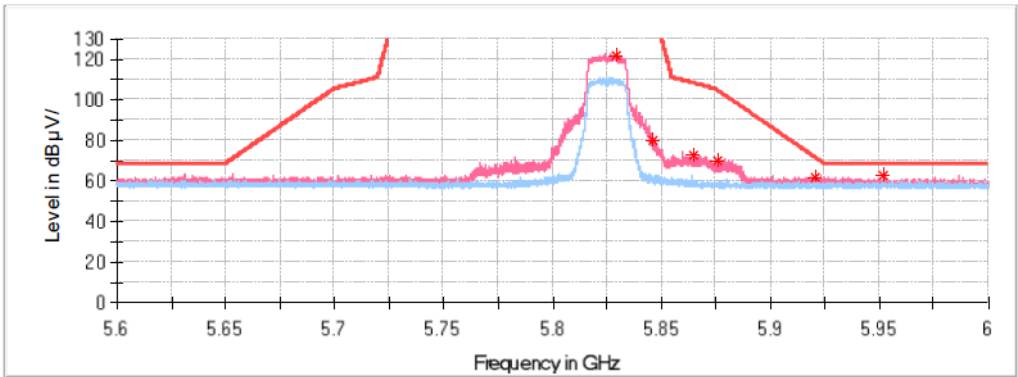
Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5646.120000	62.31	---	68.20	5.89	V	10.7
5654.560000	61.68	---	71.57	9.89	V	10.6
5697.440000	67.19	---	103.31	36.12	V	10.6
5717.080000	70.81	---	109.98	39.17	V	10.6
5728.120000	86.97	---	131.20	44.23	V	10.5
5739.080000	121.60	---	131.20	9.60	V	10.5

Common Information

Project No.:
EUT Model:
Test Mode:
Standard:
Test Equipment:
Temperature:
Humidity:
Atmospheric pressure:
Test Engineer:
Test Date:

RKSA231222003
MWC-708
802.11 ac20 Mode High Channel of Chain 0&1
FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
ESU40、3115、2641-1
23.2℃
44%
102.3KPa
Peter Wang
2024/1/28

Full Spectrum



Critical_Freqs

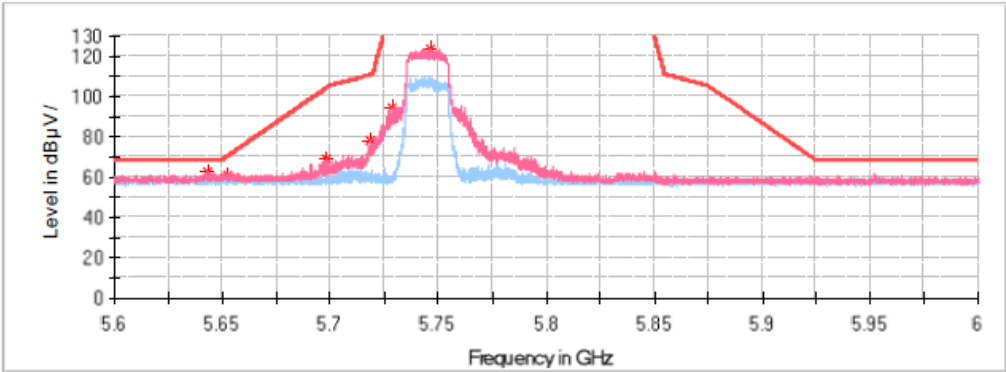
Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5829.120000	122.12	---	131.20	9.08	V	10.4
5846.480000	79.98	---	131.20	51.22	V	10.4
5864.560000	72.43	---	108.12	35.70	V	10.4
5876.000000	69.89	---	104.46	34.57	V	10.4
5920.440000	61.40	---	71.57	10.18	V	10.3
5951.800000	62.29	---	68.20	5.91	V	10.3

802.11ax20 Mode:

Common Information

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11ax20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.2℃
Humidity:	44%
Atmospheric pressure:	102.3KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/28

Full Spectrum



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5643.440000	62.43	---	68.20	5.77	V	10.7
5652.640000	60.73	---	70.15	9.42	V	10.6
5698.360000	69.10	---	103.99	34.88	V	10.6
5718.520000	78.54	---	110.39	31.85	V	10.6
5728.240000	94.45	---	131.20	36.75	V	10.5
5746.120000	124.07	---	131.20	7.13	V	10.5

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date:

RKSA231222003

MWC-708

802.11 ax20 Mode High Channel of Chain 0&1

FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

ESU40、3115、2641-1

23.2℃

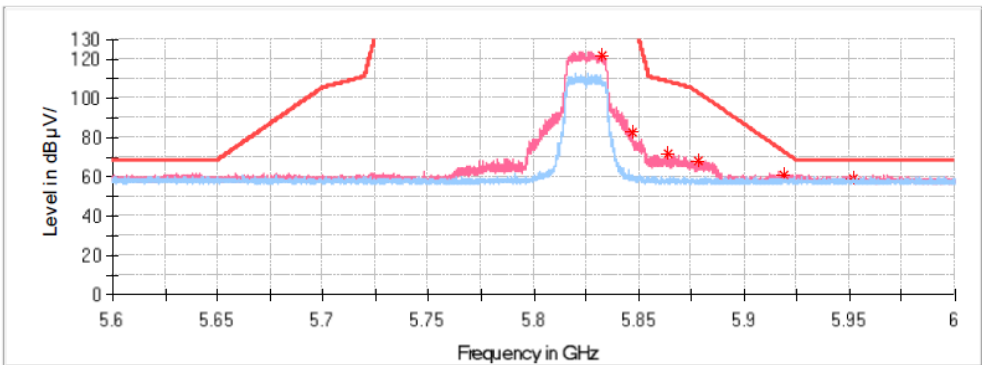
44%

102.3KPa

Peter Wang

2024/1/28

Full Spectrum



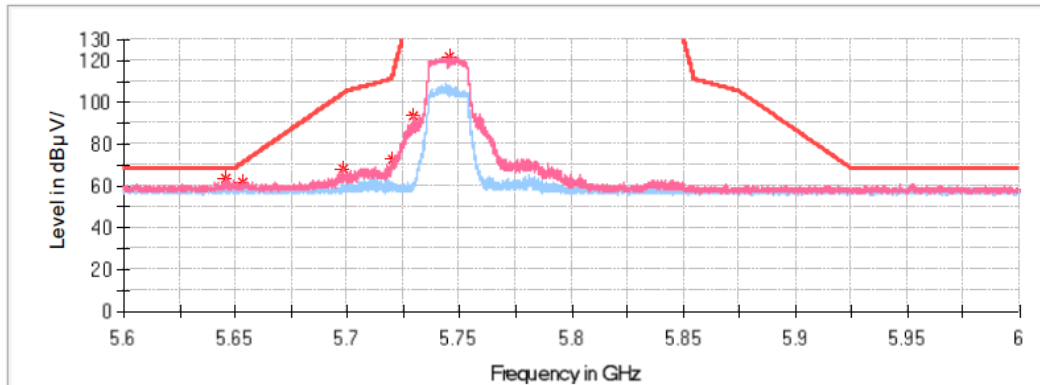
Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5832.600000	121.67	---	131.20	9.53	V	10.4
5846.600000	82.44	---	131.20	48.76	V	10.4
5863.560000	71.41	---	108.40	37.00	V	10.4
5878.560000	68.25	---	102.57	34.32	V	10.3
5918.440000	61.21	---	73.05	11.84	V	10.3
5951.440000	59.44	---	68.20	8.76	V	10.3

802.11n-HT20 Mode:**Common Information**

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n20 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.2℃
Humidity:	44%
Atmospheric pressure:	102.3KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/28

Full Spectrum

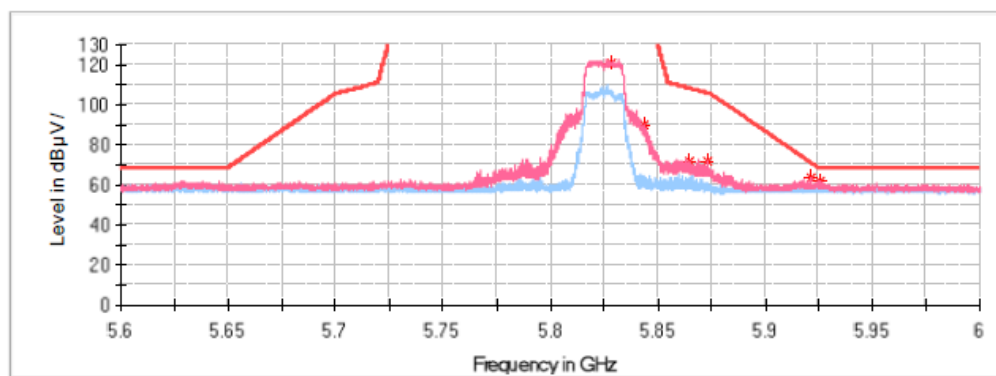
**Critical_Freqs**

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5645.720000	63.92	---	68.20	4.28	V	10.7
5653.520000	62.03	---	70.80	8.77	V	10.6
5697.680000	68.50	---	103.48	34.99	V	10.6
5719.760000	73.08	---	110.73	37.65	V	10.6
5729.640000	93.20	---	131.20	38.00	V	10.5
5745.760000	122.20	---	131.20	9.00	V	10.5

Common Information

Project No.: RKSA231222003
EUT Model: MWC-708
Test Mode: 802.11n20 Mode High Channel of Chain 0&1
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40、3115、2641-1
Temperature: 23.2℃
Humidity: 44%
Atmospheric pressure: 102.3KPa
Test Engineer: Peter Wang
Test Date: 2024/1/28

Full Spectrum



Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5828.240000	121.32	---	131.20	9.88	V	10.4
5843.400000	90.12	---	131.20	41.08	V	10.4
5864.840000	71.95	---	108.04	36.09	V	10.4
5872.840000	71.88	---	105.80	33.92	V	10.4
5920.960000	63.38	---	71.19	7.81	V	10.3
5925.400000	61.97	---	68.20	6.23	V	10.3

802.11ac40 Mode:

Common Information

Project No.:RKSA231222003

EUT Model:MWC-708

Test Mode:802.11ac40 Mode Low Channel of Chain 0&1

Standard:FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

Test Equipment:ESU40、3115、2641-1

Temperature:23.2℃

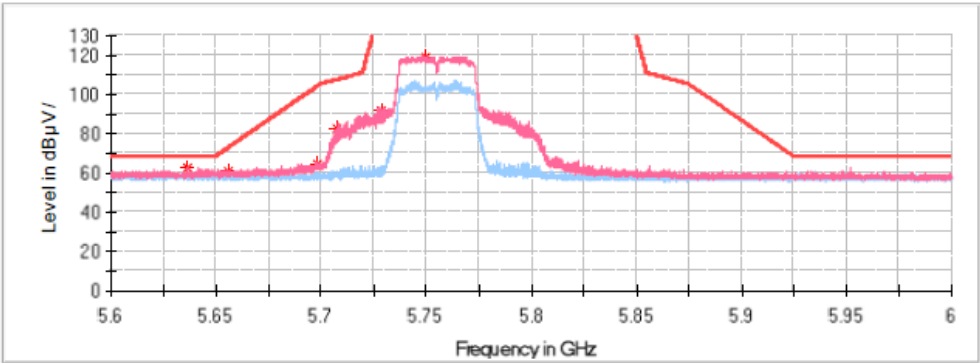
Humidity:44%

Atmospheric pressure:102.3KPa

Test Engineer:Peter Wang

Test Date:2024/1/28

Full Spectrum



Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5636.080000	62.56	---	68.20	5.64	V	10.7
5655.960000	61.25	---	72.61	11.36	V	10.6
5697.760000	64.98	---	103.54	38.57	V	10.6
5707.480000	82.62	---	107.29	24.67	V	10.6
5728.720000	91.91	---	131.20	39.29	V	10.5
5750.000000	118.97	---	131.20	12.23	V	10.5

Common Information

Project No.:RKSA231222003

EUT Model:MWC-708

Test Mode:802.11 ac40 Mode High Channel of Chain 0&1

Standard:FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

Test Equipment:ESU40、3115、2641-1

Temperature:23.2℃

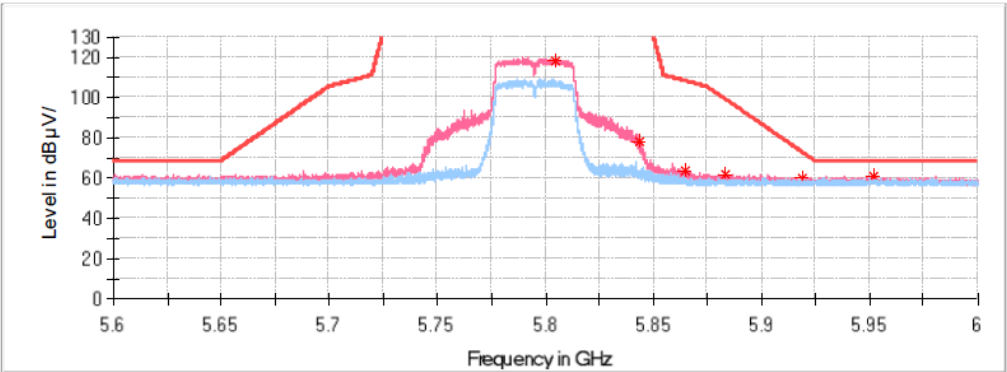
Humidity:44%

Atmospheric pressure:102.3KPa

Test Engineer:Peter Wang

Test Date:2024/1/28

Full Spectrum



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5804.400000	117.83	---	131.20	13.37	V	10.4
5843.720000	78.25	---	131.20	52.95	V	10.4
5865.080000	63.55	---	107.98	44.43	V	10.4
5883.520000	61.45	---	98.90	37.45	V	10.3
5918.440000	60.00	---	73.05	13.05	V	10.3
5951.840000	61.13	---	68.20	7.07	V	10.3

802.11ax40 Mode:

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date:

RKSA231222003

MWC-708

802.11ax40 Mode Low Channel of Chain 0&1

FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

ESU40、3115、2641-1

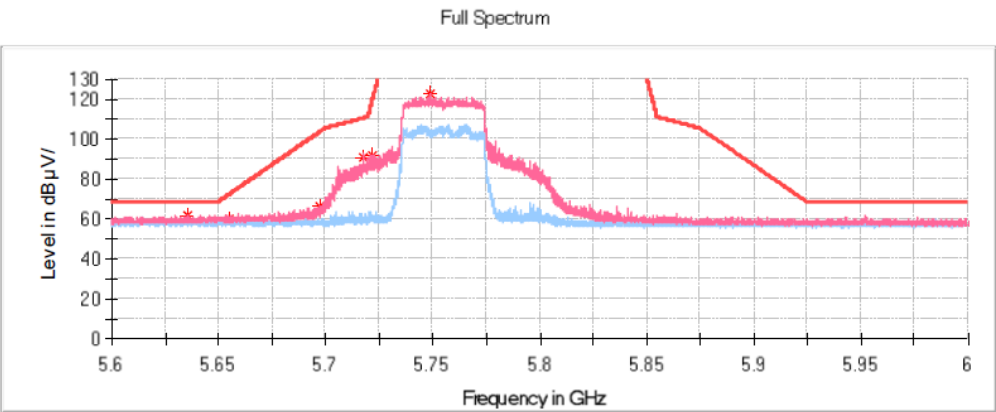
23.2℃

44%

102.3KPa

Peter Wang

2024/1/28



Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5635.360000	62.11	---	68.20	6.09	V	10.7
5655.360000	60.14	---	72.17	12.02	V	10.6
5696.920000	66.24	---	102.92	36.69	V	10.6
5717.280000	90.91	---	110.04	19.13	V	10.6
5722.160000	92.14	---	119.61	27.47	V	10.6
5748.520000	123.06	---	131.20	8.14	V	10.5

Common Information

Project No.:

EUT Model:

Test Mode:

Standard:

Test Equipment:

Temperature:

Humidity:

Atmospheric pressure:

Test Engineer:

Test Date:

RKSA231222003

MWC-708

802.11 ax40 Mode High Channel of Chain 0&1

FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

ESU40、3115、2641-1

23.2℃

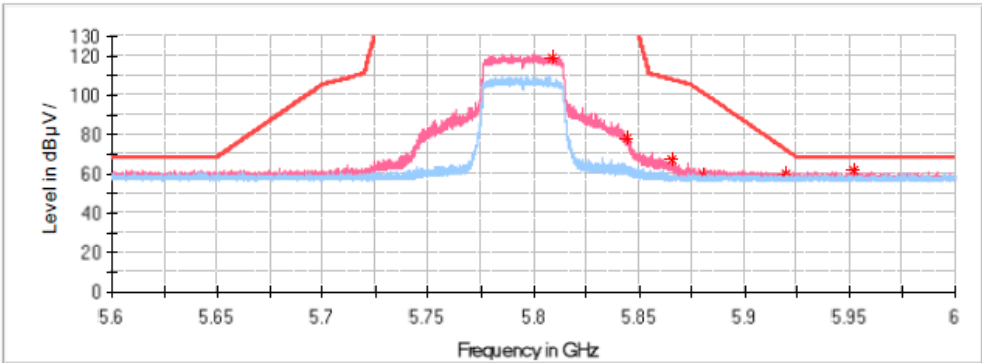
44%

102.3KPa

Peter Wang

2024/1/28

Full Spectrum



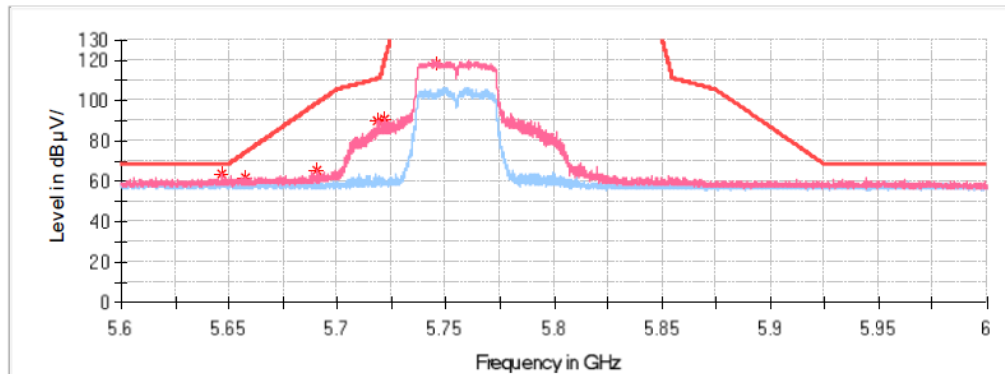
Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5809.200000	119.36	---	131.20	11.84	V	10.4
5844.760000	77.77	---	131.20	53.43	V	10.4
5865.200000	67.02	---	107.94	40.93	V	10.4
5880.560000	59.01	---	101.09	42.08	V	10.3
5919.960000	60.31	---	71.93	11.62	V	10.3
5952.120000	62.03	---	68.20	6.17	V	10.3

802.11n-HT40 Mode:**Common Information**

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11n40 Mode Low Channel of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40、3115、2641-1
Temperature:	23.2℃
Humidity:	44%
Atmospheric pressure:	102.3KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/28

Full Spectrum

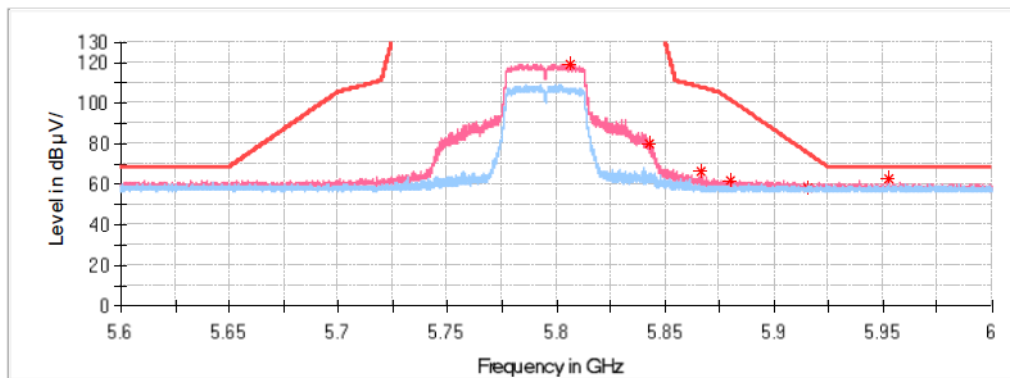
**Critical_Freqs**

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5646.920000	63.56	---	68.20	4.64	V	10.6
5657.240000	62.06	---	73.56	11.49	V	10.6
5690.120000	65.69	---	97.89	32.20	V	10.6
5718.680000	89.55	---	110.43	20.88	V	10.6
5721.400000	91.30	---	116.51	25.22	V	10.6
5745.240000	118.31	---	131.20	12.89	V	10.5

Common Information

Project No.: RKSA231222003
EUT Model: MWC-708
Test Mode: 802.11 n40 Mode High Channel of Chain 0&1
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40、3115、2641-1
Temperature: 23.2°C
Humidity: 44%
Atmospheric pressure: 102.3KPa
Test Engineer: Peter Wang
Test Date: 2024/1/28

Full Spectrum

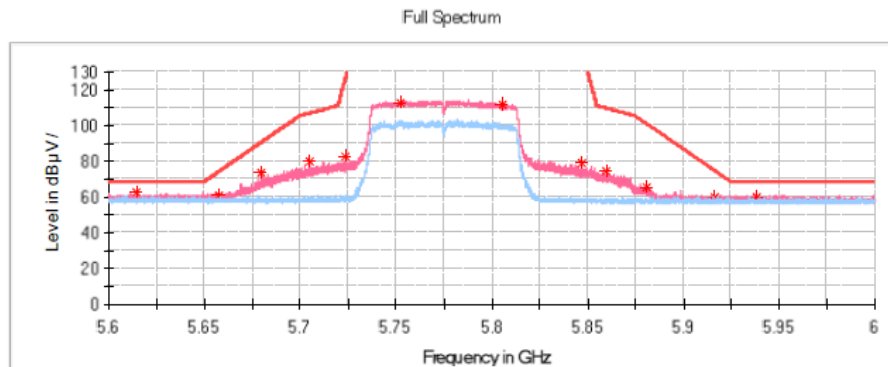


Critical_Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5806.280000	119.23	---	131.20	11.97	V	10.4
5842.920000	79.75	---	131.20	51.45	V	10.4
5866.800000	66.41	---	107.50	41.09	V	10.4
5880.320000	61.84	---	101.26	39.42	V	10.3
5915.360000	58.14	---	75.33	17.19	V	10.3
5952.240000	62.63	---	68.20	5.57	V	10.3

802.11ac80 Mode:**Common Information**

Project No.:	RKSA231222003
EUT Model:	MWC-708
Test Mode:	802.11 ac80 Mode of Chain 0&1
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESU40, 3115, 2641-1
Temperature:	23.2°C
Humidity:	44%
Atmospheric pressure:	102.3KPa
Test Engineer:	Peter Wang
Test Date:	2024/1/28

**Critical Freqs**

Frequency (MHz)	Corrected Amplitude		Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB µ V/m)	Average (dB µ V/m)				
5614.200000	62.74	---	68.20	5.46	V	10.7
5657.800000	60.51	---	73.97	13.47	V	10.6
5679.360000	73.67	---	89.93	16.26	V	10.6
5704.440000	79.87	---	106.44	26.57	V	10.6
5723.680000	82.56	---	125.81	43.26	V	10.5
5752.280000	112.84	---	131.20	18.36	V	10.5
5805.200000	112.04	---	131.20	19.16	V	10.4
5847.000000	78.81	---	131.20	52.39	V	10.4
5859.680000	74.27	---	109.49	35.21	V	10.4
5880.640000	65.35	---	101.03	35.68	V	10.3
5916.360000	60.41	---	74.59	14.18	V	10.3
5938.080000	60.13	---	68.20	8.07	V	10.3

802.11ax80 Mode:

Common Information

Project No.:RKSA231222003

EUT Model:MWC-708

Test Mode:802.11 ax80 Mode of Chain 0&1

Standard:FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209

Test Equipment:ESU40、3115、2641-1

Temperature:23.2℃

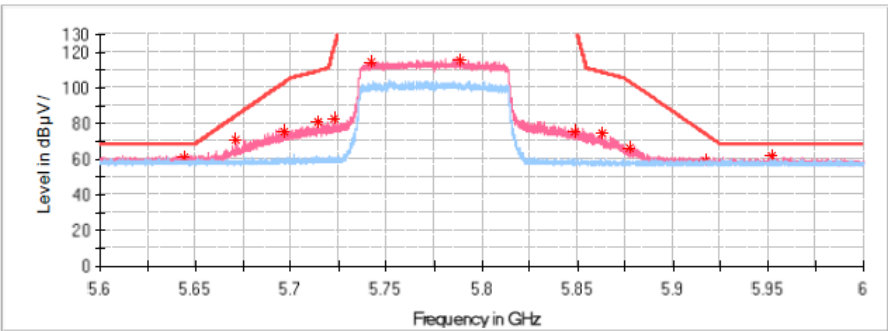
Humidity:44%

Atmospheric pressure:102.3KPa

Test Engineer:Peter Wang

Test Date:2024/1/28

Full Spectrum



Critical Freqs

Frequency (MHz)	Corrected Amplitude		Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)				
5643.960000	60.91	---	68.20	7.29	V	10.7
5671.280000	70.54	---	83.95	13.41	V	10.6
5696.480000	75.75	---	102.60	26.85	V	10.6
5714.160000	80.56	---	109.16	28.60	V	10.6
5722.720000	82.93	---	121.90	38.97	V	10.6
5742.440000	114.46	---	131.20	16.74	V	10.5
5788.600000	115.88	---	131.20	15.32	V	10.5
5848.680000	75.51	---	131.20	55.69	V	10.4
5862.920000	74.81	---	108.58	33.77	V	10.4
5877.640000	66.58	---	103.25	36.66	V	10.3
5917.280000	59.44	---	73.91	14.47	V	10.3
5952.040000	61.76	---	68.20	6.44	V	10.3

FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz band is made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

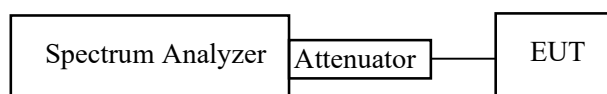
1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data**Environmental Conditions & Test Information**

Temperature:	23.8-23.9 °C
Relative Humidity:	45-46 %
ATM Pressure:	102.8-102.9 kPa
Test Date:	2024-01-30 to 2024-01-31
Test Engineer:	Jay Liu

Test Result: Compliant

Test Mode	Channel (MHz)	26dB Emission Bandwidth (MHz)		Limit (MHz)
		Chain 0	Chain 1	
802.11a	5180	20.52	20.52	/
	5200	20.6	20.68	/
	5240	20.6	20.68	/
802.11n-HT20	5180	21.64	21.16	/
	5200	20.84	21.56	/
	5240	21.16	21.40	/
802.11n-HT40	5190	40.4	40.88	/
	5230	40.4	40.88	/
802.11ac-VHT20	5180	21.08	21.00	/
	5200	21.00	21.24	/
	5240	21.56	21.40	/
802.11ac-VHT40	5190	40.24	40.40	/
	5230	40.08	41.04	/
802.11ac-VHT80	5210	82.08	82.73	/
802.11ax-HE20	5180	20.68	21.56	/
	5200	21.80	21.56	/
	5240	21.32	21.80	/
802.11ax-HE40	5190	41.04	41.20	/
	5230	41.52	41.04	/
802.11ax-HE80	5210	83.37	83.05	/

Test Mode	Channel (MHz)	Occupied Channel Bandwidth (MHz)		Limit (MHz)
		Chain 0	Chain 1	
802.11a	5180	16.51	16.51	/
	5200	16.51	16.51	/
	5240	16.51	16.51	/
	5745	16.51	16.51	/
	5785	16.51	16.51	/
	5825	16.51	16.51	/
802.11n-HT20	5180	17.72	17.64	/
	5200	17.72	17.64	/
	5240	17.72	17.72	/
	5745	17.64	17.72	/
	5785	17.80	17.64	/
	5825	17.72	17.72	/
802.11n-HT40	5190	36.23	36.23	/
	5230	36.23	36.23	/
	5755	36.23	36.23	/
	5795	36.23	36.23	/
802.11ac-VHT20	5180	17.72	17.64	/
	5200	17.64	17.72	/
	5240	17.72	17.80	/
	5745	17.72	17.72	/
	5785	17.72	17.80	/
	5825	17.64	17.72	/
802.11ac-VHT40	5190	36.23	36.23	/
	5230	36.23	36.23	/
	5755	36.23	36.23	/
	5795	36.23	36.23	/
802.11ac-VHT80	5210	75.67	75.67	/
	5775	75.67	75.35	/

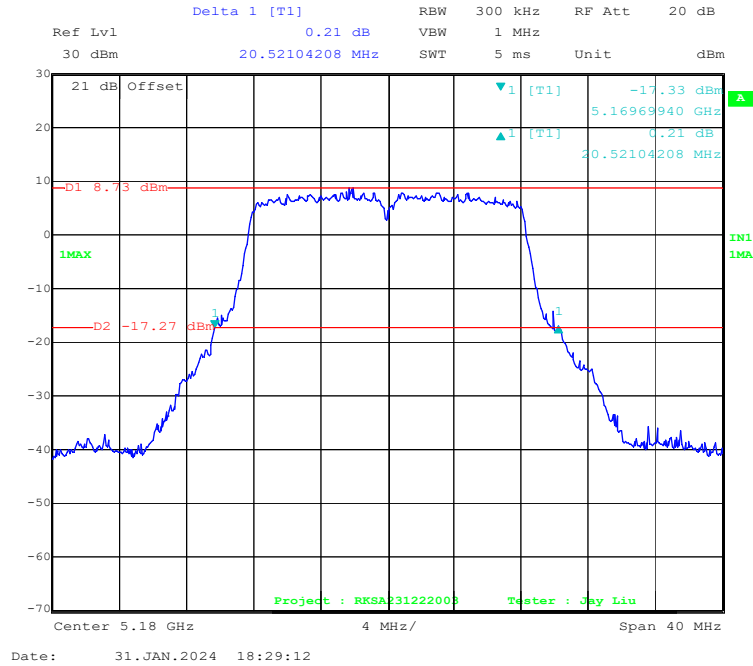
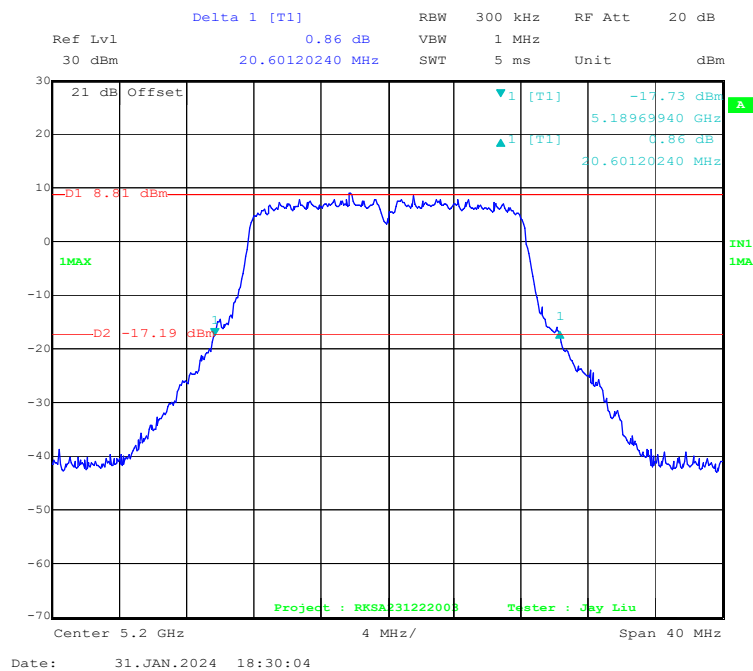
Note: No transmitted signal in the 99% bandwidth extends into the U-NII-2A and U-NII-2C band.

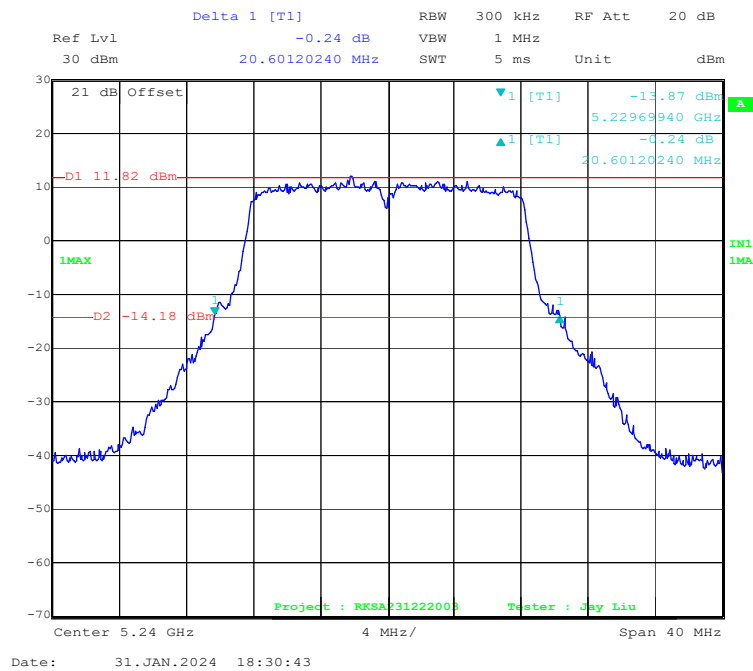
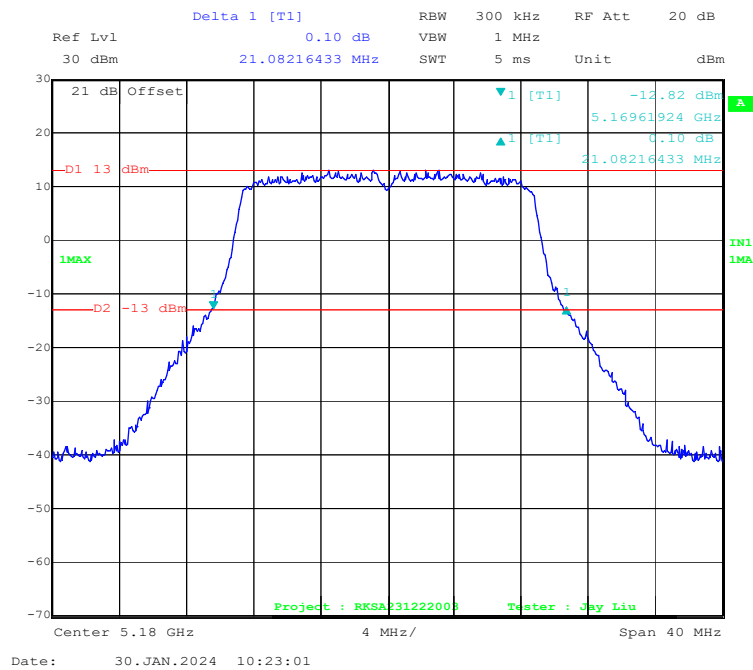
Test Mode	Channel (MHz)	Occupied Channel Bandwidth (MHz)		Limit (MHz)
		Chain 0	Chain 1	
802.11ax-HE20	5180	16.51	19.00	/
	5200	19.08	19.08	/
	5240	19.00	19.08	/
	5745	19.00	19.08	/
	5785	19.00	19.08	/
	5825	19.00	19.08	/
802.11ax-HE40	5190	37.84	37.84	/
	5230	37.84	37.84	/
	5755	37.84	38.00	/
	5795	37.84	37.84	/
802.11ax-HE80	5210	77.60	77.60	/
	5775	77.27	77.27	/

Note: No transmitted signal in the 99% bandwidth extends into the U-NII-2A and U-NII-2C band

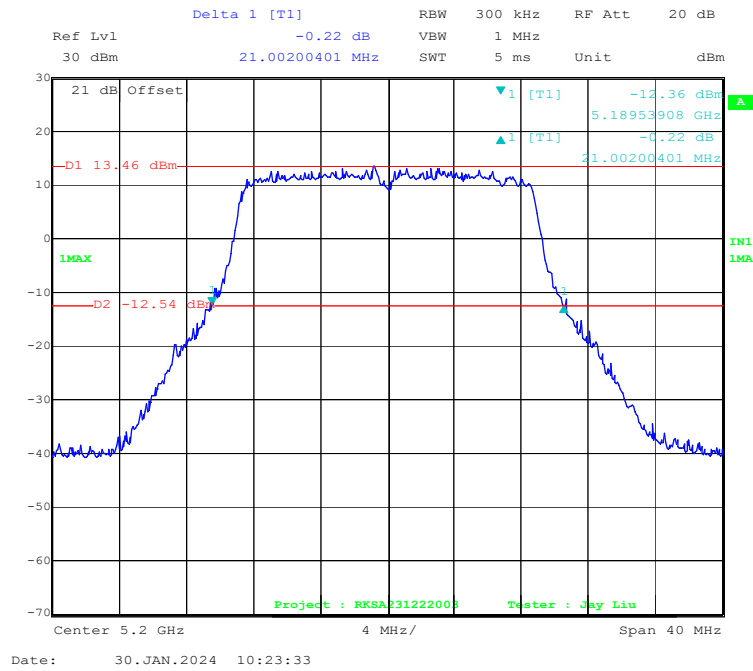
Test Mode	Channel (MHz)	6dB Emission Bandwidth (MHz)		Limit (MHz)	Verdict
		Chain 0	Chain 1		
802.11a	5745	15.87	16.11	0.5	PASS
	5785	16.35	16.03	0.5	PASS
	5825	16.19	16.19	0.5	PASS
802.11n-HT20	5745	16.83	17.56	0.5	PASS
	5785	17.56	16.83	0.5	PASS
	5825	17.31	16.59	0.5	PASS
802.11n-HT40	5755	36.23	36.07	0.5	PASS
	5795	36.23	36.07	0.5	PASS
802.11ac-VHT20	5745	17.39	16.19	0.5	PASS
	5785	17.07	16.83	0.5	PASS
	5825	16.75	17.47	0.5	PASS
802.11ac-VHT40	5755	36.39	36.23	0.5	PASS
	5795	36.07	36.23	0.5	PASS
802.11ac-VHT80	5775	75.35	74.71	0.5	PASS
802.11ax-HE20	5745	18.20	18.60	0.5	PASS
	5785	18.52	18.04	0.5	PASS
	5825	18.12	18.68	0.5	PASS
802.11ax-HE40	5755	37.84	38.00	0.5	PASS
	5795	38.16	38.16	0.5	PASS
802.11ax-HE80	5775	77.92	77.27	0.5	PASS

Chain 0:
26 Bandwidth
5150-5250 MHz Band:

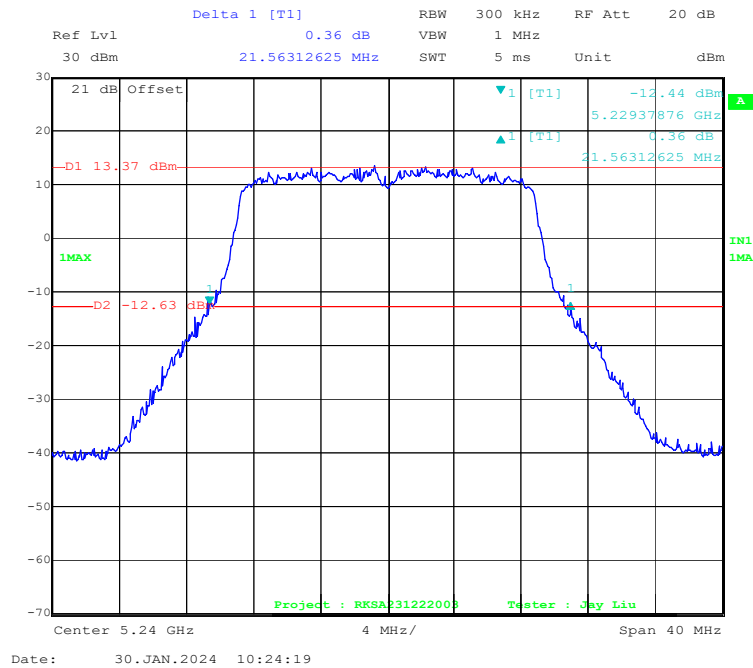
802.11a mode, 5180MHz**802.11a mode, 5200MHz**

802.11a mode, 5240MHz**802.11ac20 mode, 5180MHz**

802.11ac20 mode, 5200MHz



802.11ac20 mode, 5240MHz



Delta 1 [T1] -0.19 dB

Ref Lvl 30 dBm

RBW 300 kHz RF Att 20 dB

VBW 1 MHz

SWT 5 ms Unit dBm

21 dB Offset

D1 13.02 dBm

1MAX

D2 -12.98 dBm

1 [T1] -12.31 dBm

5.16897796 GHz

1 [T1] -0.19 dB

21.64328657 MHz

IN1

1MA

Project : RKSA231222009

Tester : Jay Liu

Center 5.18 GHz

4 MHz/

Span 40 MHz

Date: 30.JAN.2024 10:18:13

Delta 1 [T1]

Ref Lvl 0.65 dB

30 dBm

20.84168337 MHz

RBW 300 kHz

VBW 1 MHz

SWT 5 ms

RF Att 20 dB

Unit dBm

21 dB Offset

-12.44 dBm

5.18969940 GHz

0.65 dB

20.84168337 MHz

D1 13.38 dBm

1MAX

D2 -12.62 dBm

IN1

1MA

Project : RKGA231222009

Tester : Jay Liu

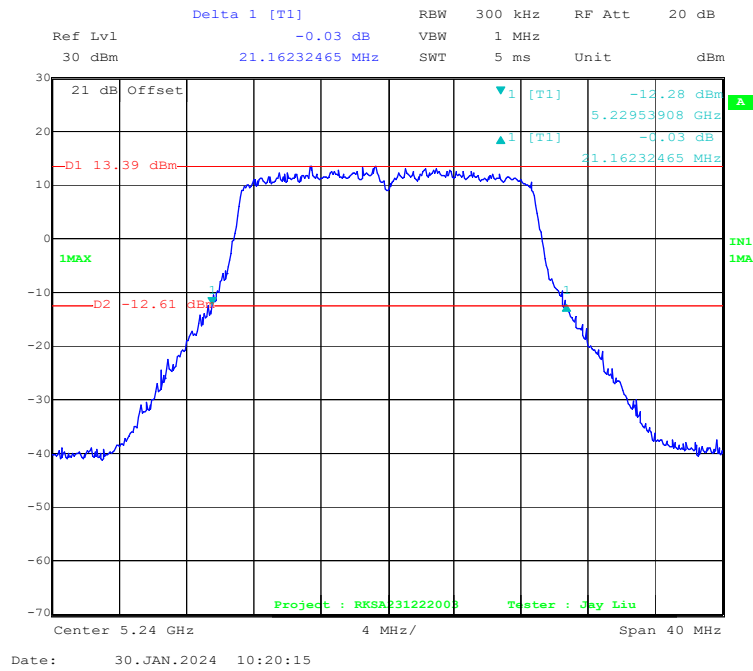
Center 5.2 GHz

4 MHz/

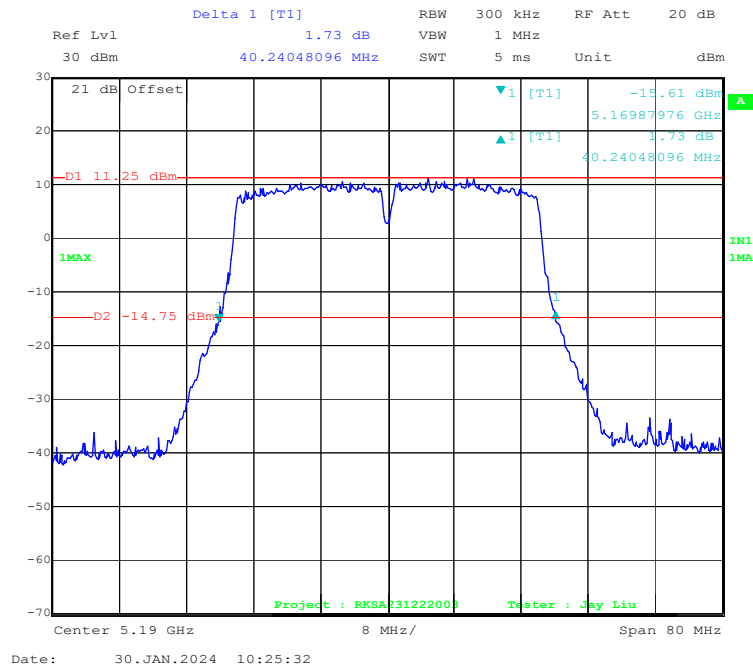
Span 40 MHz

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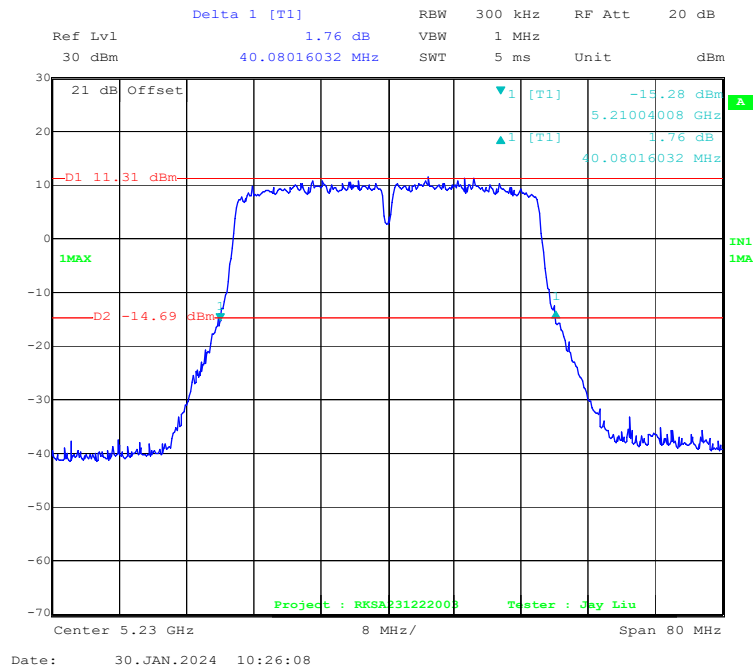
802.11n-HT20 mode, 5240MHz



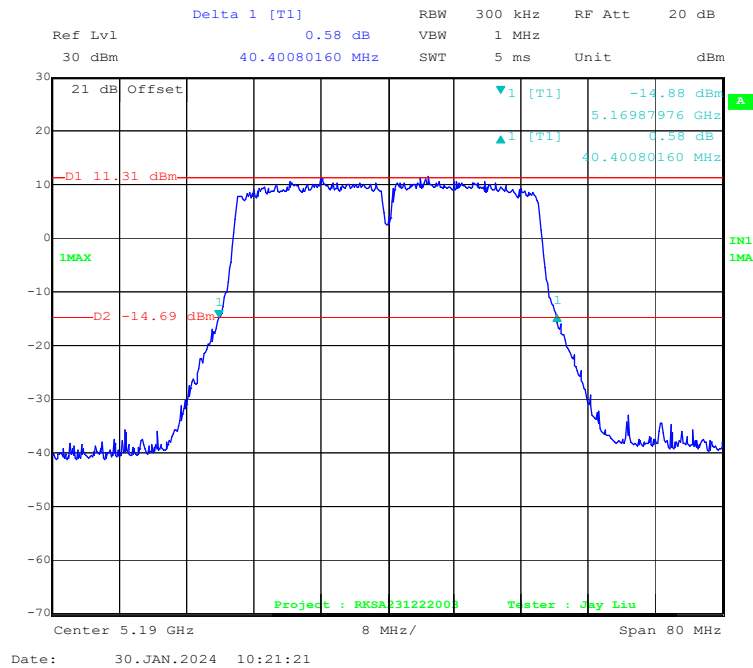
802.11ac40 mode, 5190MHz



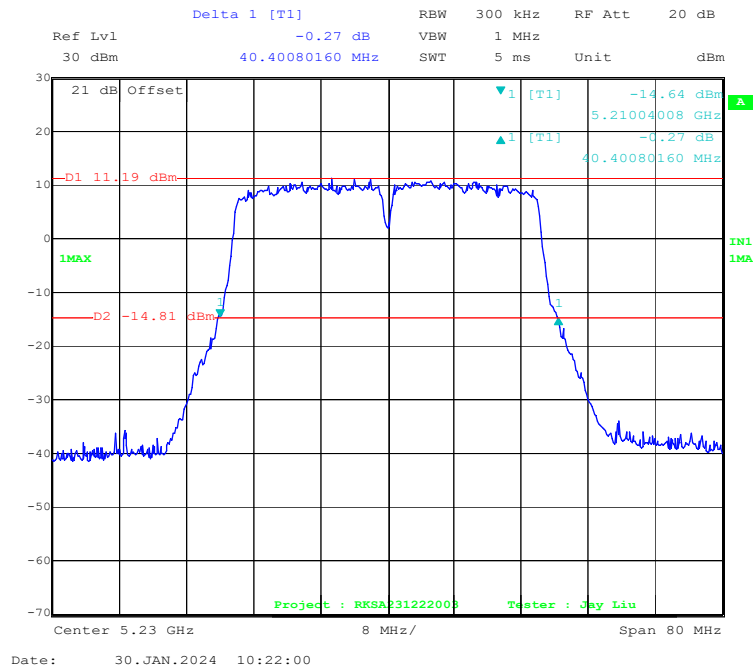
802.11ac40 mode, 5230MHz



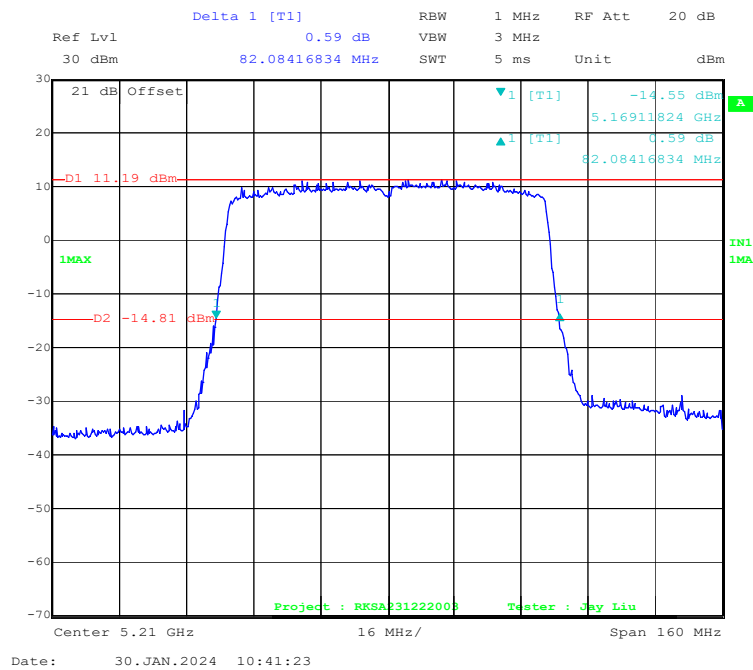
802.11n-HT40 mode, 5190MHz



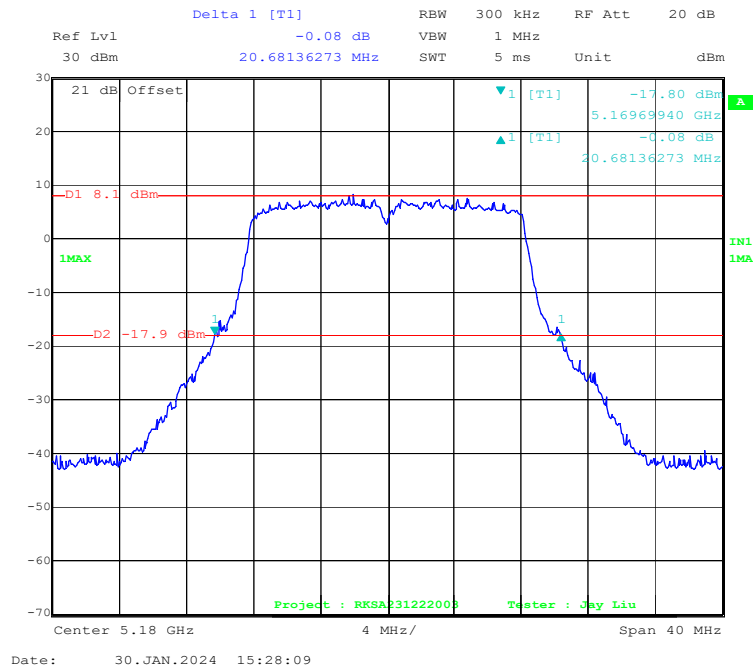
802.11n-HT40 mode, 5230MHz



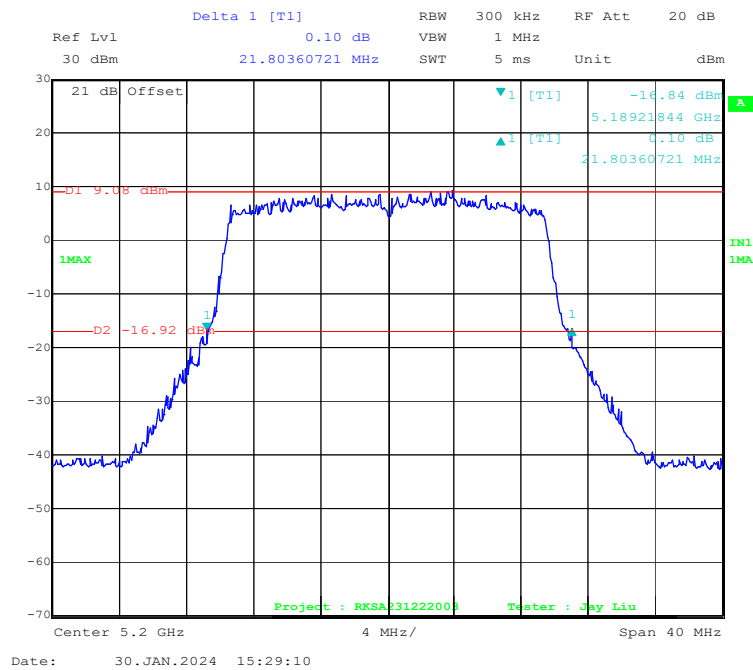
802.11ac80 mode, 5210MHz



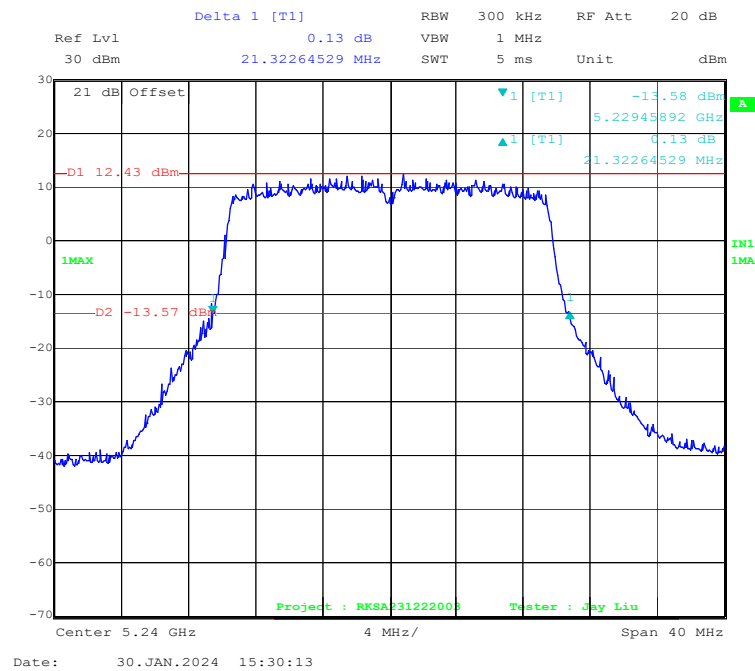
802.11ax20 mode, 5180MHz



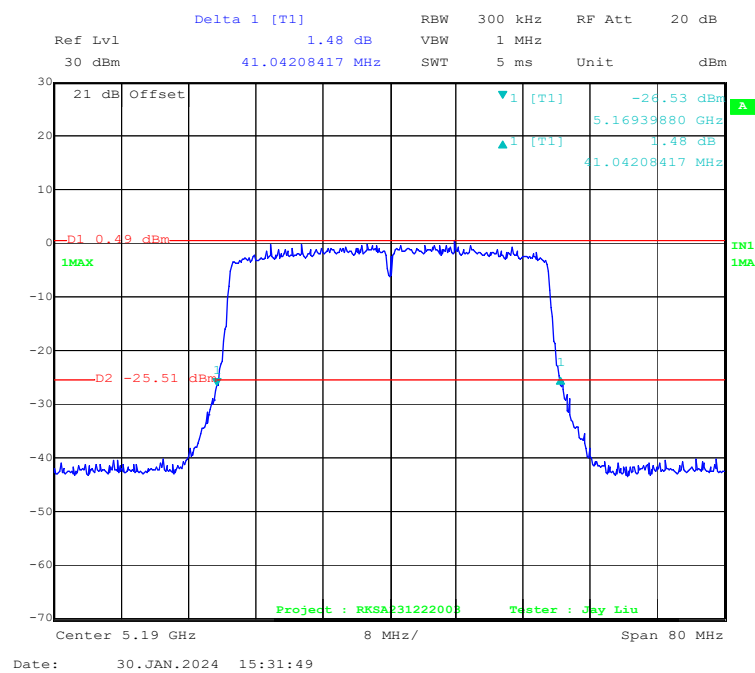
802.11ax20 mode, 5200MHz



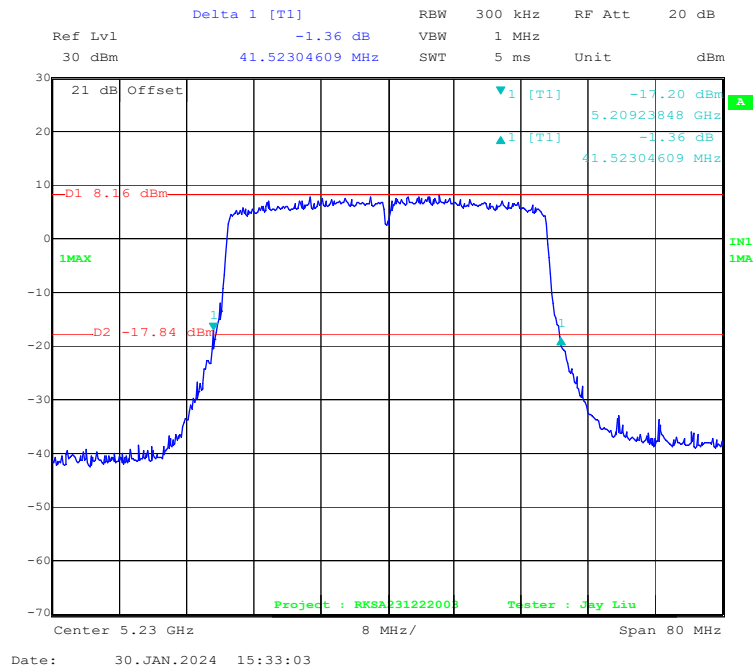
802.11ax20 mode, 5240MHz



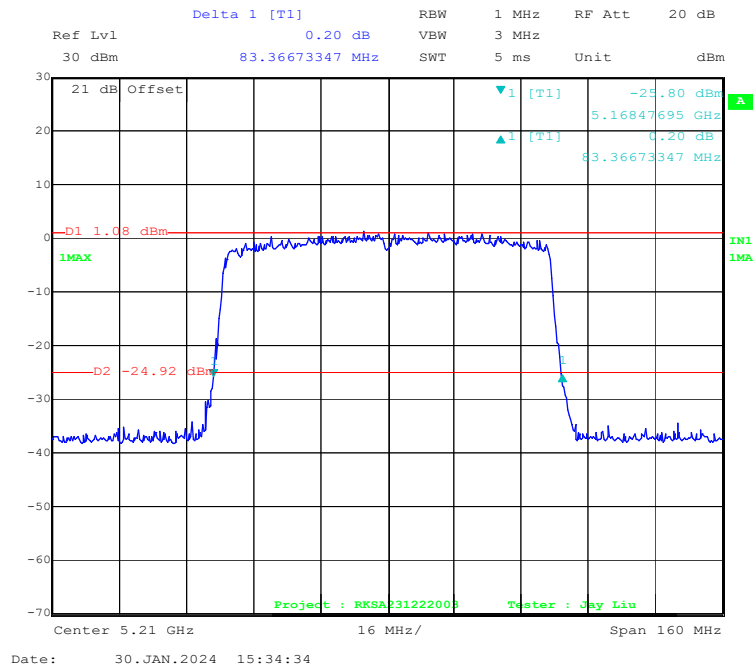
802.11ax40 mode, 5190MHz

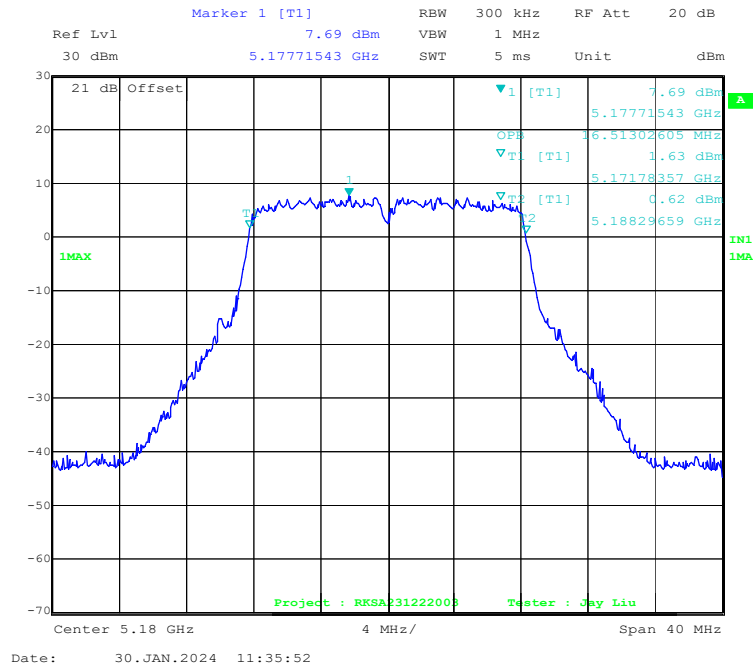
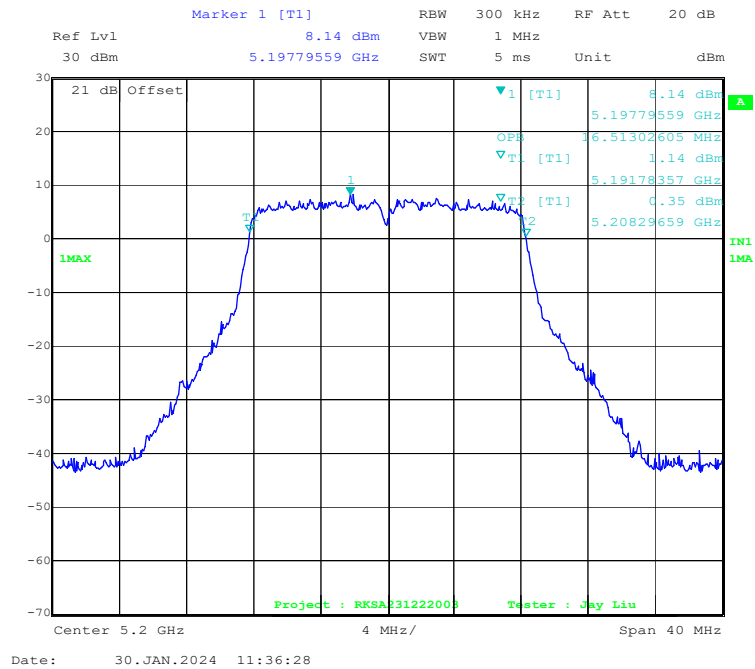


802.11ax40 mode, 5230MHz

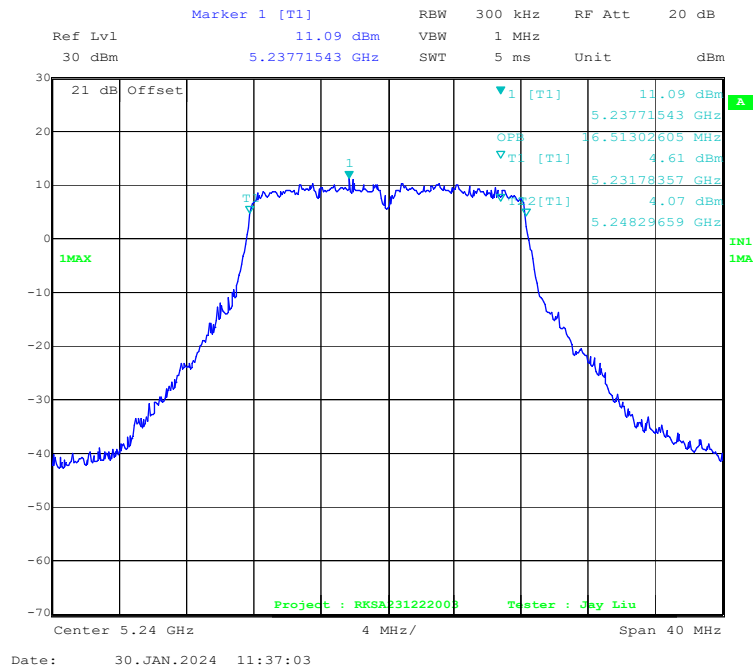


802.11ax80 mode, 5210MHz

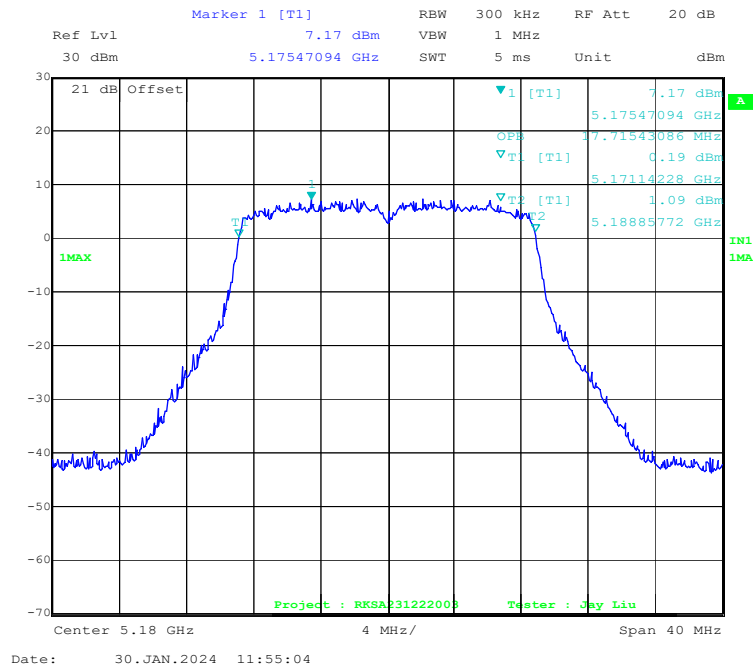


**99% Occupied Bandwidth:
5150-5250 MHz Band:****802.11a mode, 5180MHz****802.11a mode, 5200MHz**

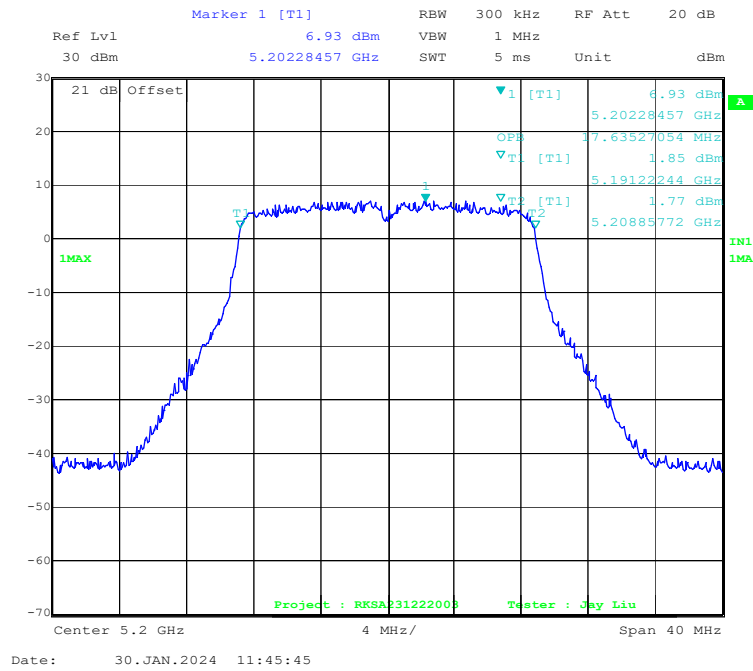
802.11a mode, 5240MHz



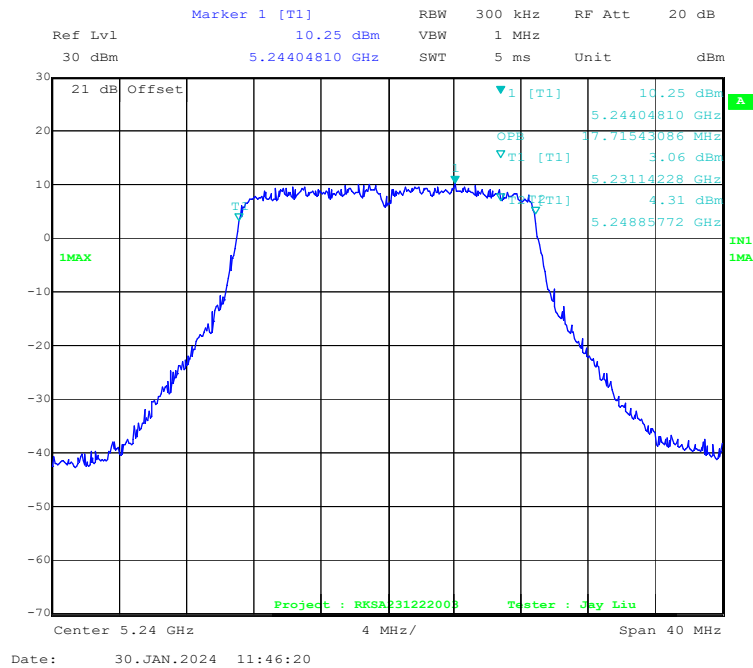
802.11ac20 mode, 5180MHz



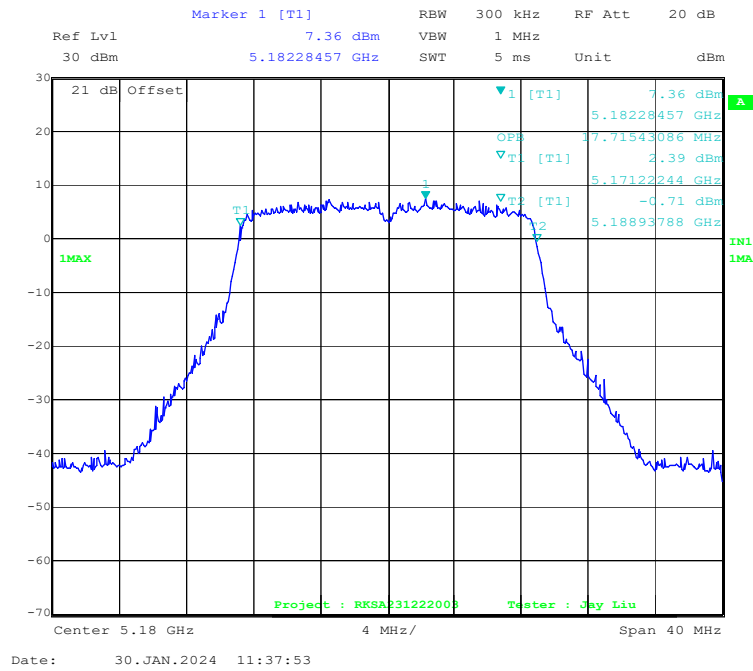
802.11ac20 mode, 5200MHz



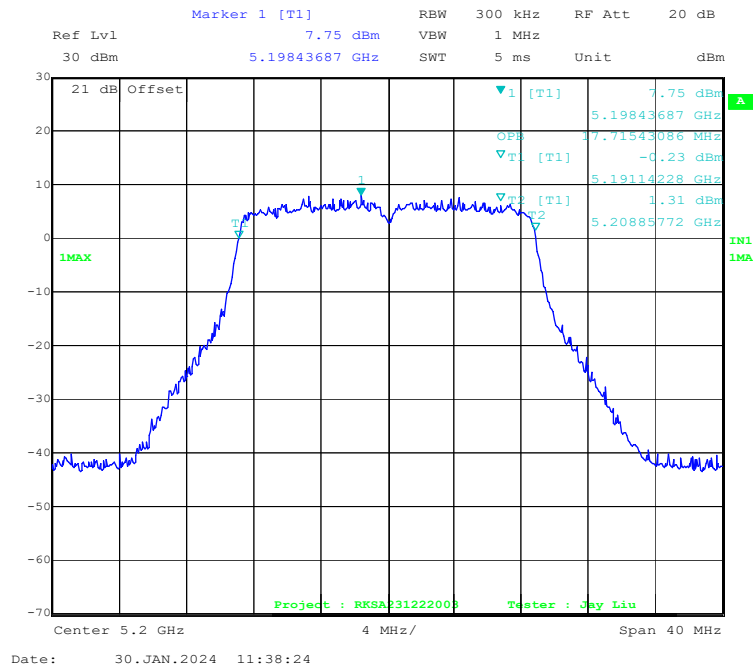
802.11ac20 mode, 5240MHz

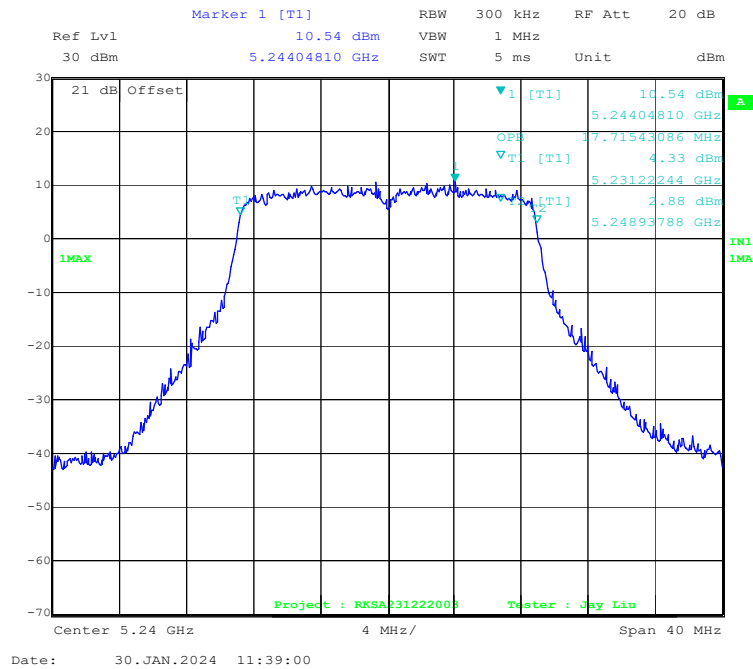
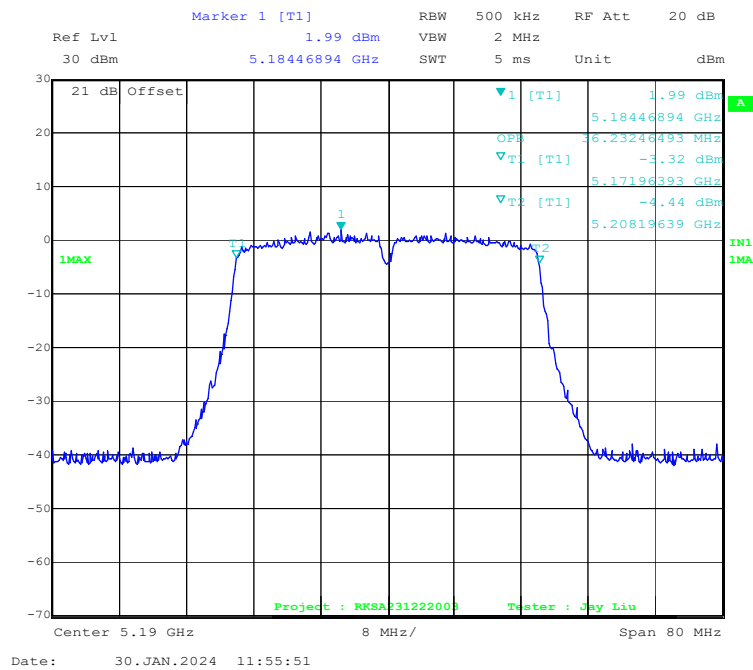


802.11n-HT20 mode, 5180MHz

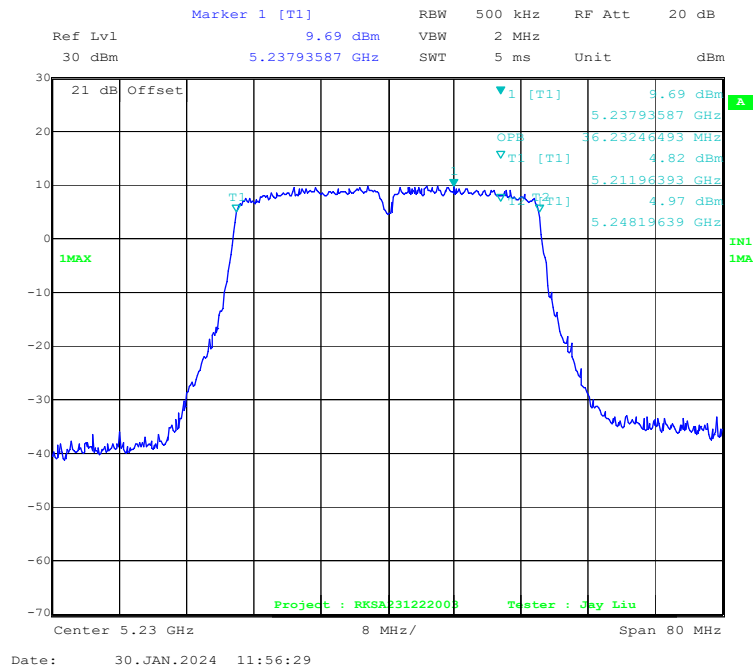


802.11n-HT20 mode, 5200MHz

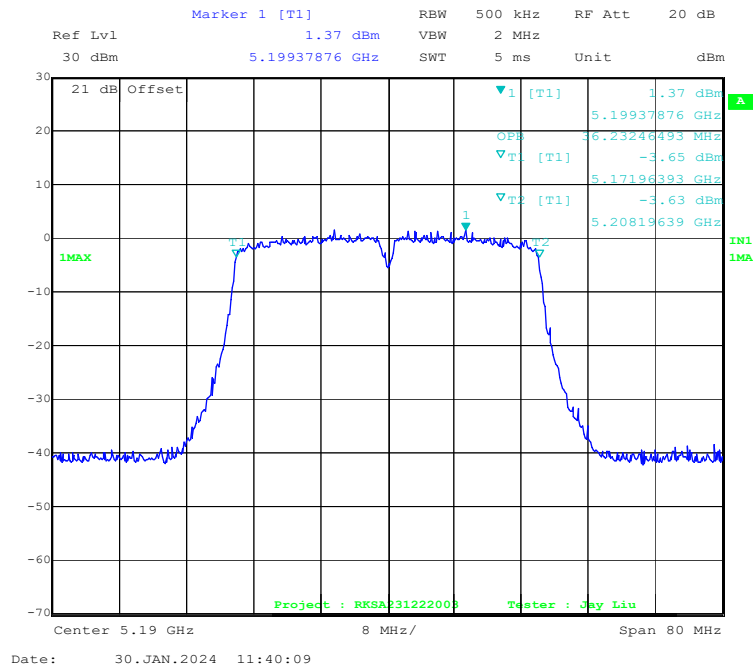


802.11n-HT20 mode, 5240MHz**802.11ac40 mode, 5190MHz**

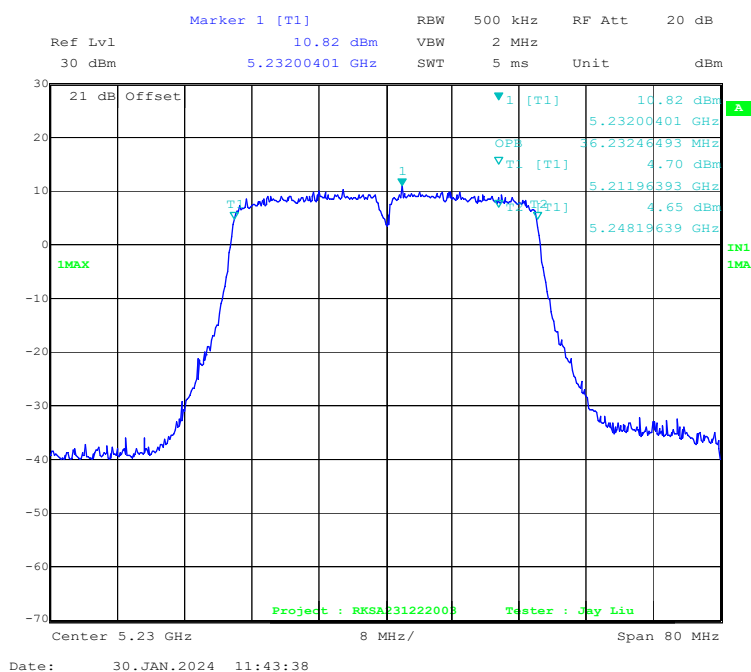
802.11ac40 mode, 5230MHz



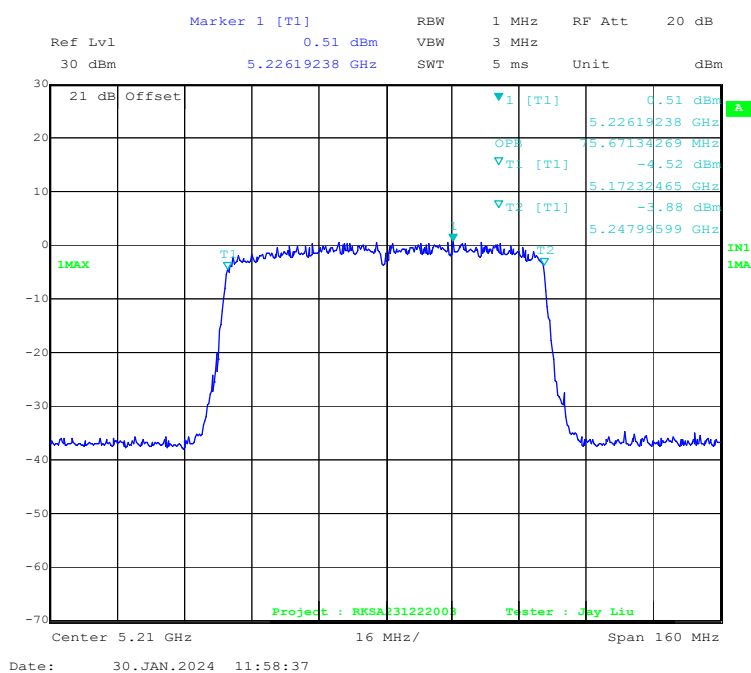
802.11n-HT40 mode, 5190MHz



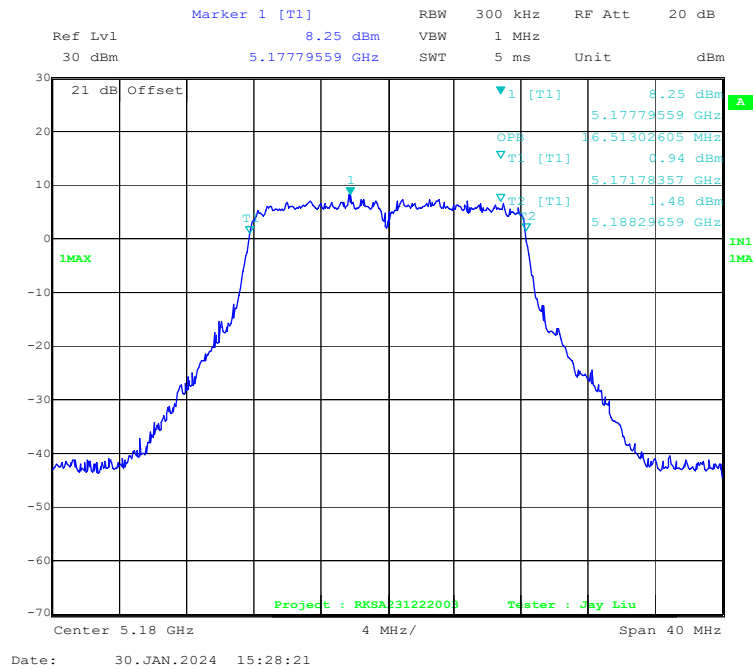
802.11n-HT40 mode, 5230MHz



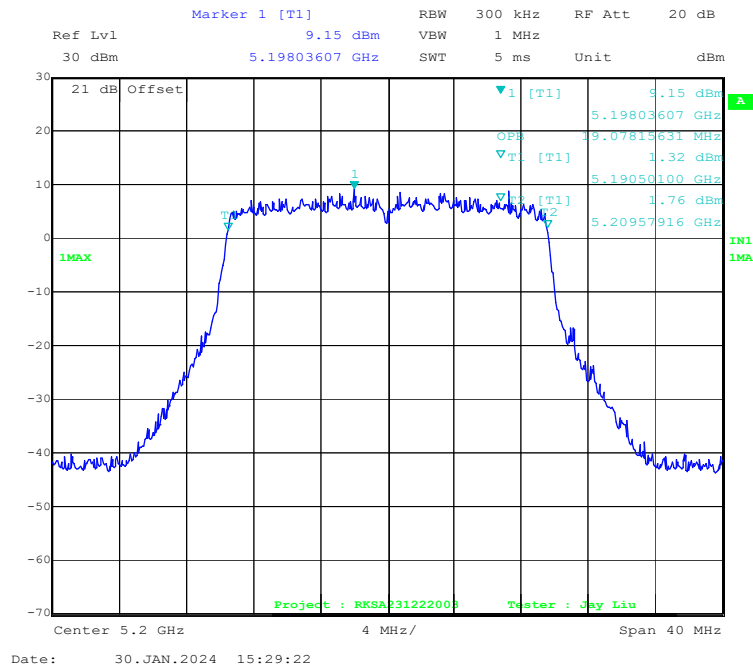
802.11ac80 mode, 5210MHz



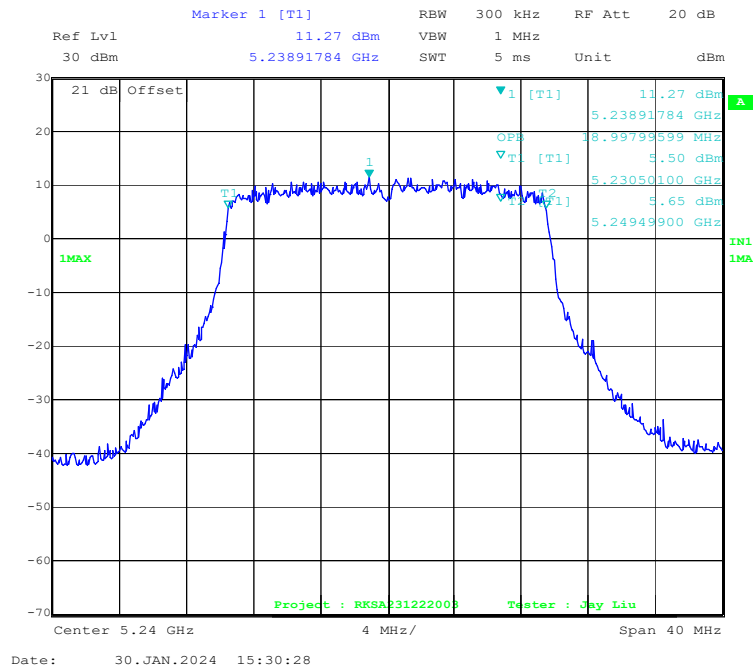
802.11ax20 mode, 5180MHz



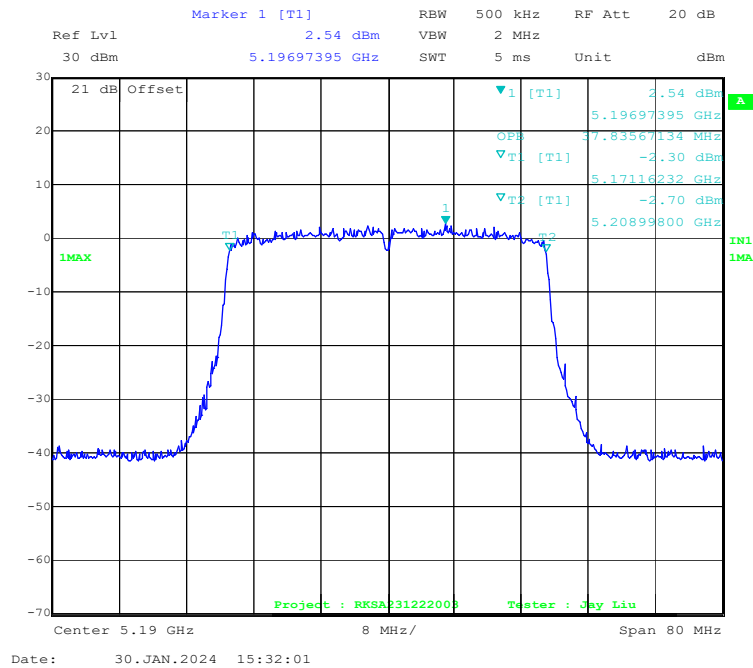
802.11ax20 mode, 5200MHz



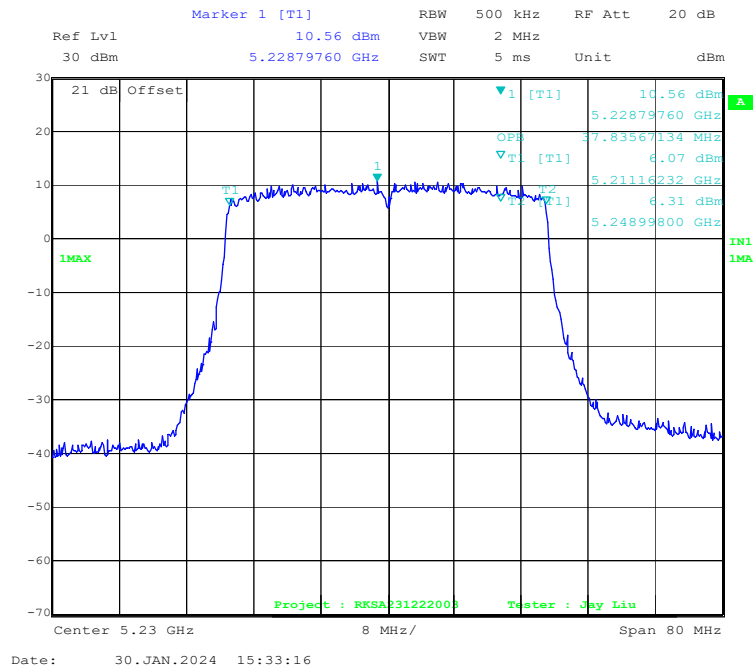
802.11ax20 mode, 5240MHz



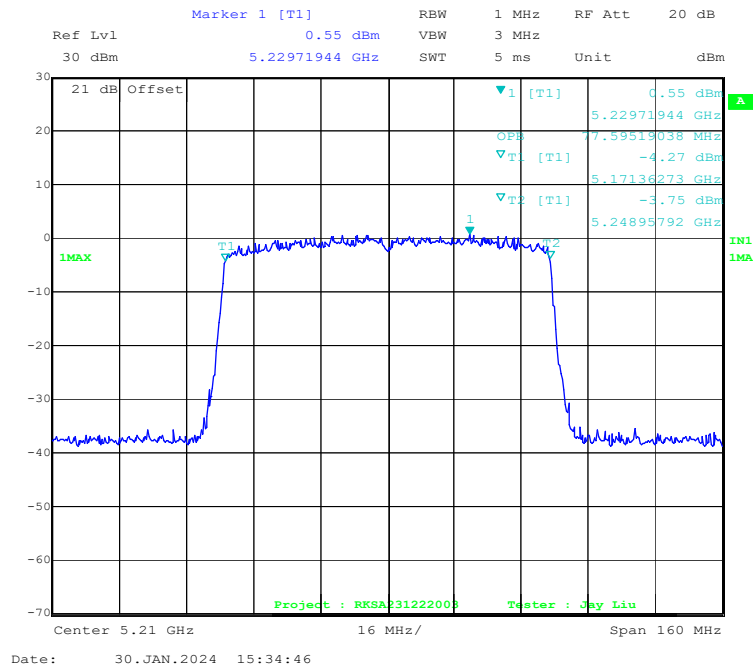
802.11ax40 mode, 5190MHz



802.11ax40 mode, 5230MHz

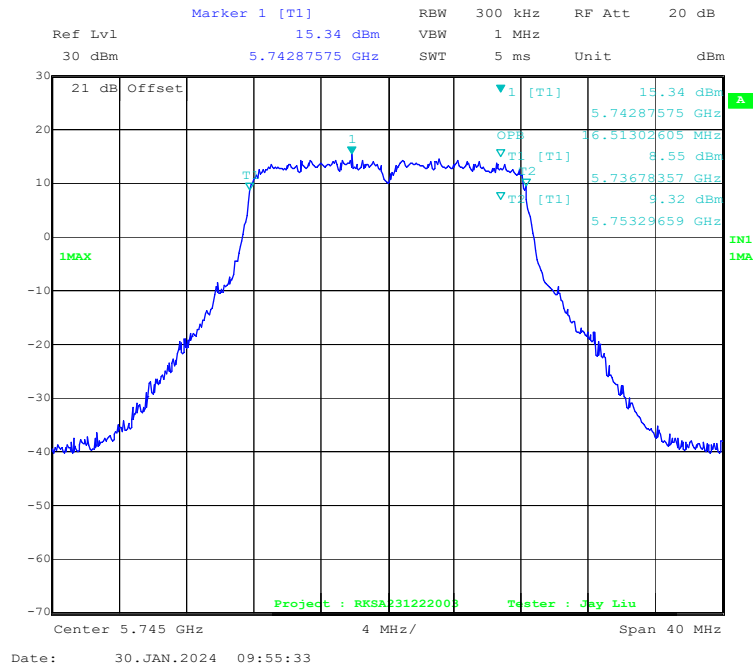


802.11ax80 mode, 5210MHz

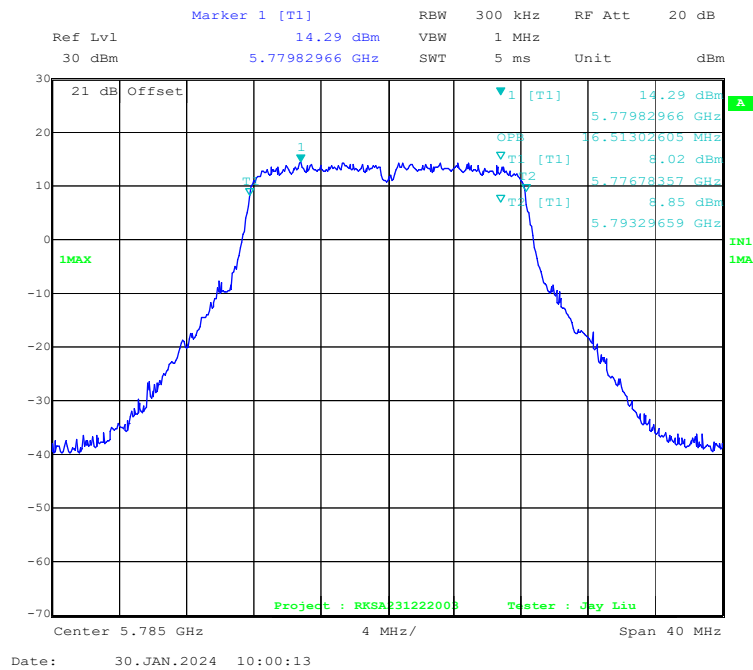


5725-5850 MHz Band

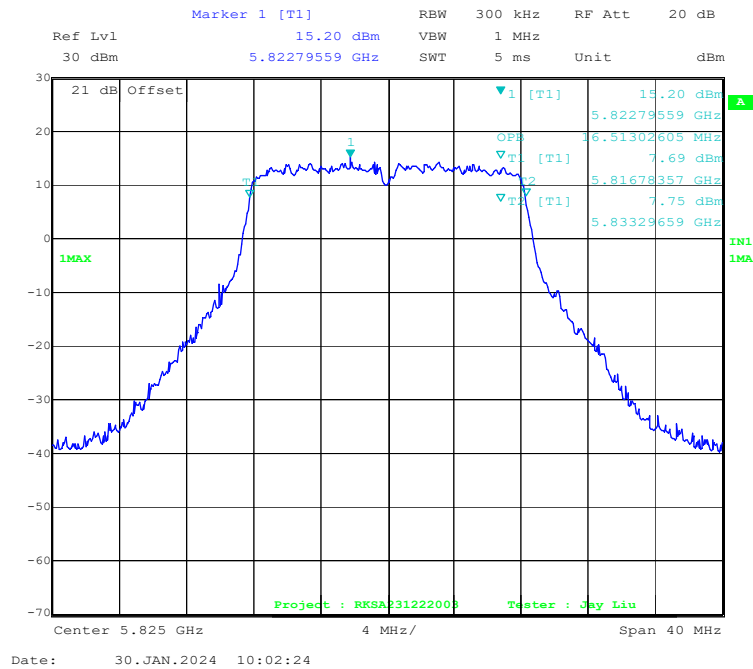
802.11a mode, 5745MHz



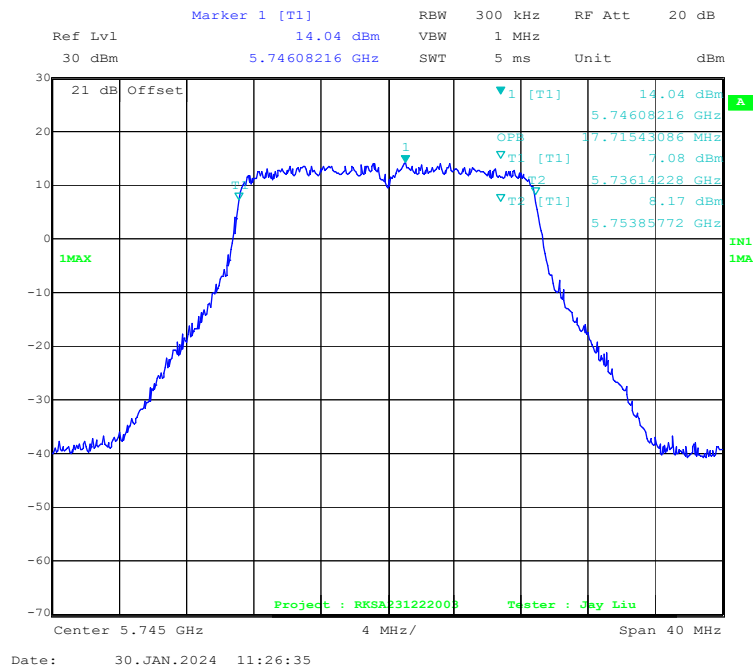
802.11a mode, 5785MHz



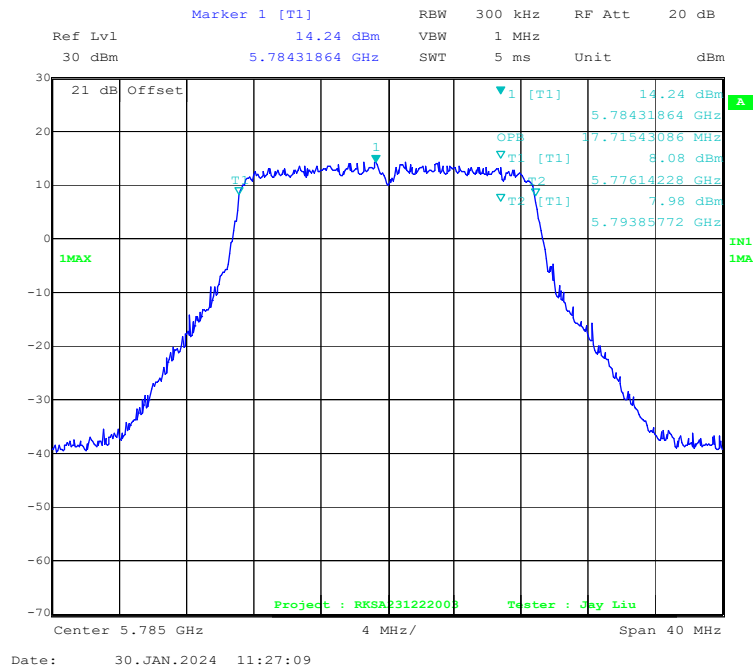
802.11a mode, 5825MHz



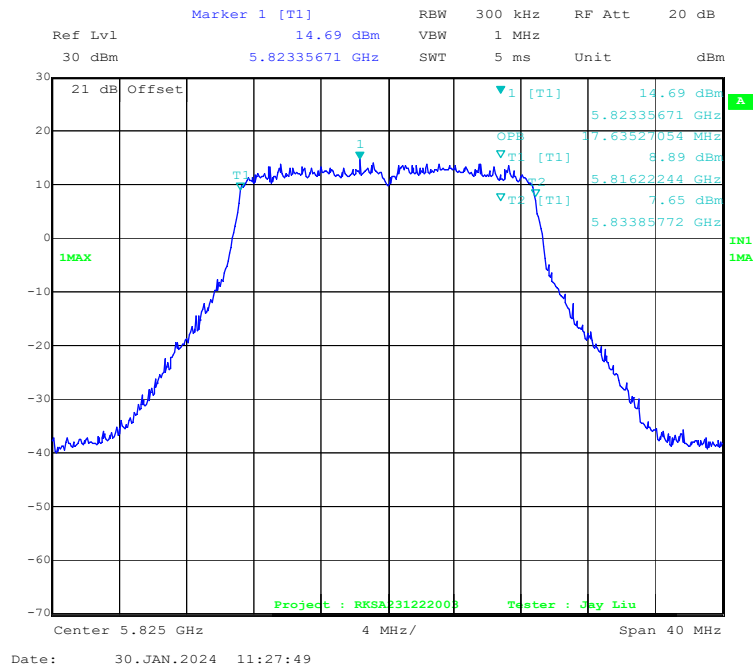
802.11ac20 mode, 5745MHz



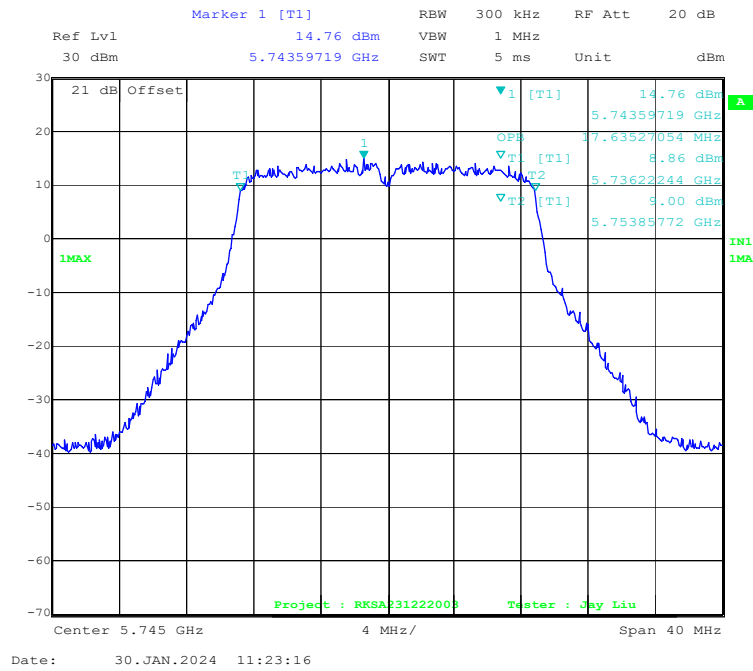
802.11ac20 mode, 5785MHz



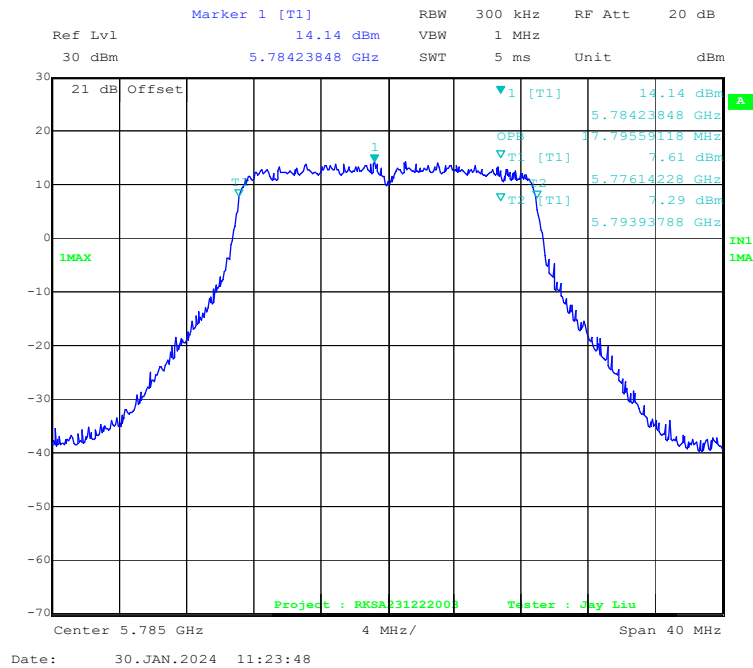
802.11ac20 mode, 5825MHz



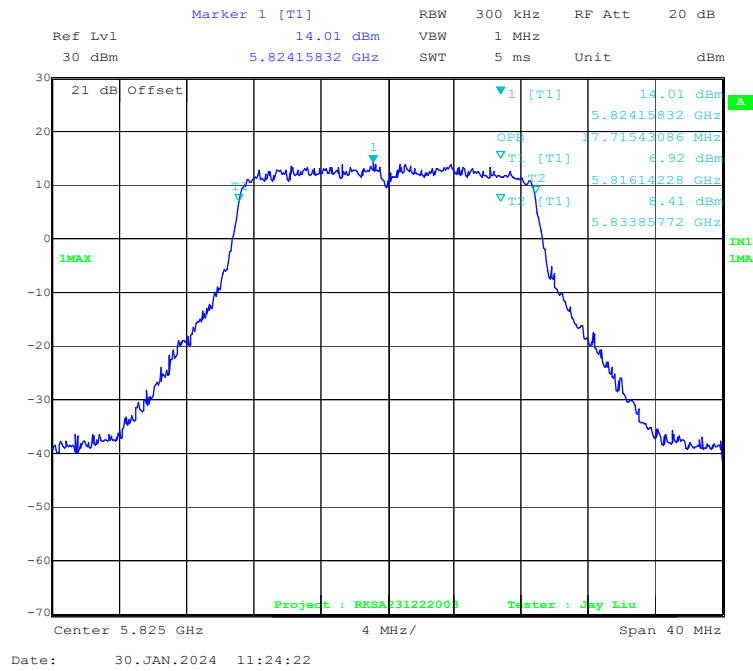
802.11n-HT20 mode, 5745MHz



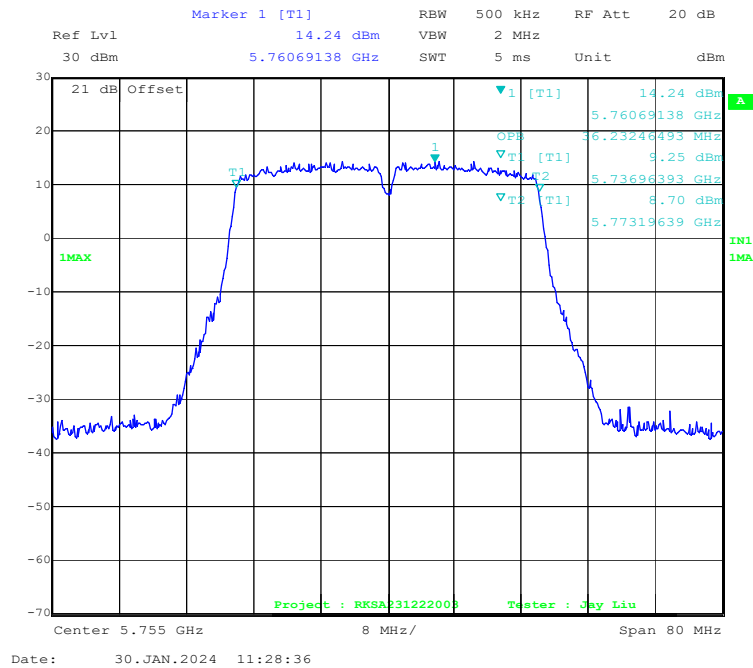
802.11n-HT20 mode, 5785MHz



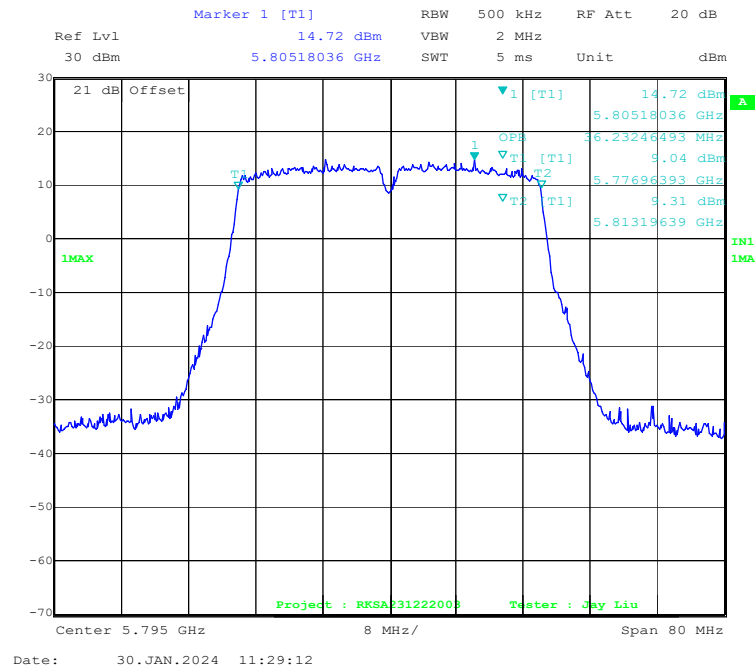
802.11n-HT20 mode, 5825MHz



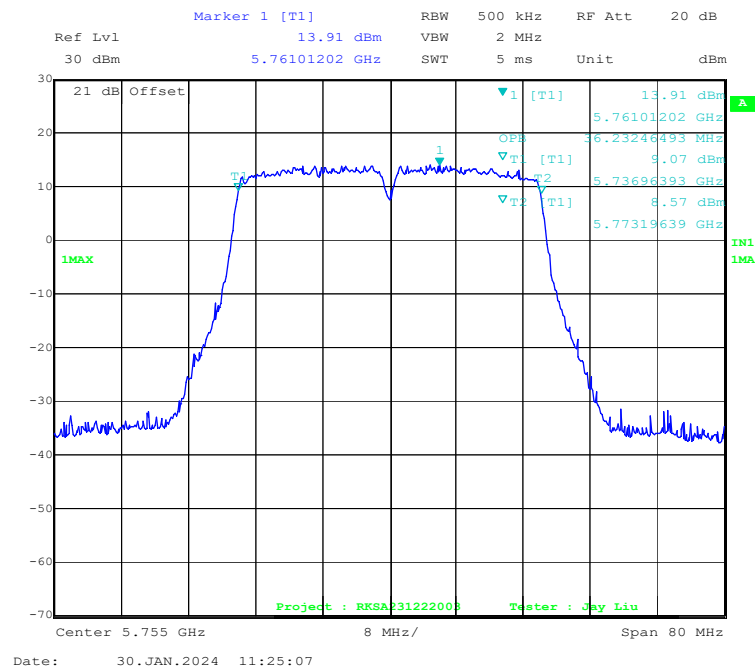
802.11ac40 mode, 5755MHz



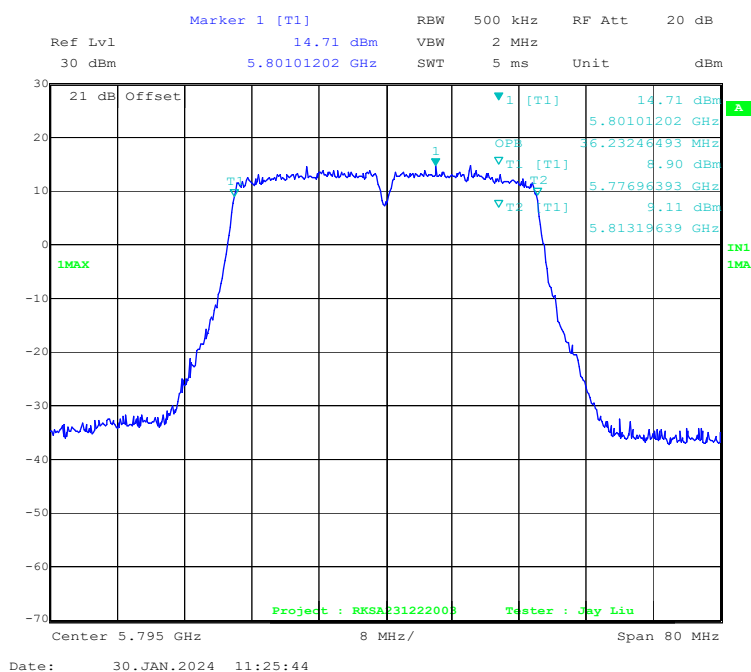
802.11ac40 mode, 5795MHz



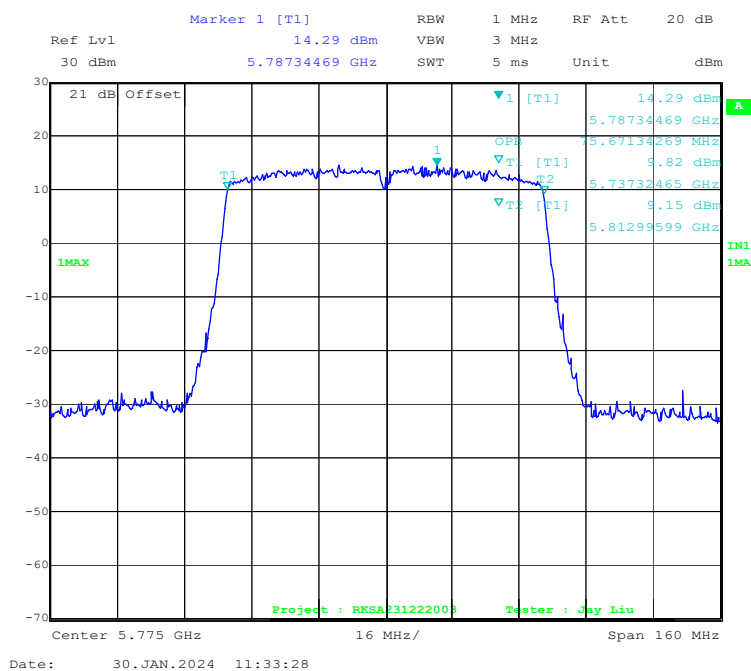
802.11n-HT40 mode, 5755MHz



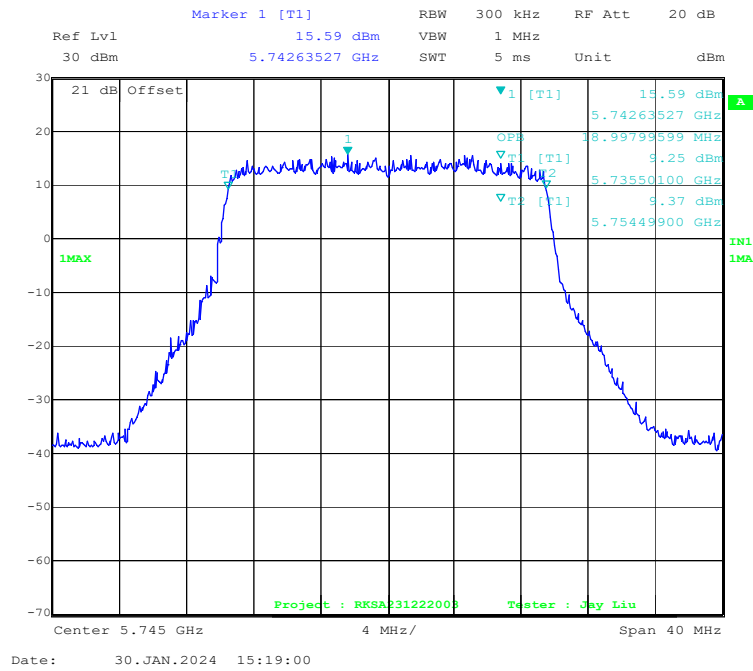
802.11n-HT40 mode, 5795MHz



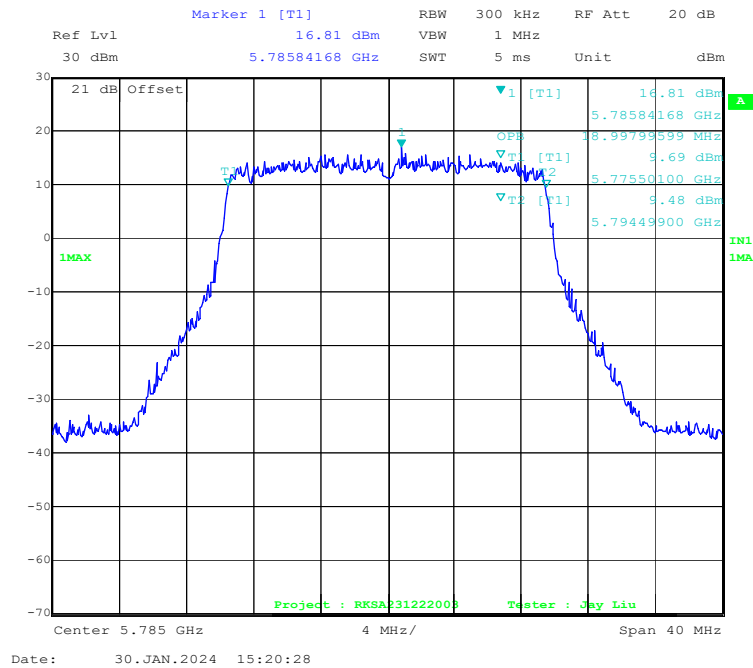
802.11n-ac80 mode, 5775MHz



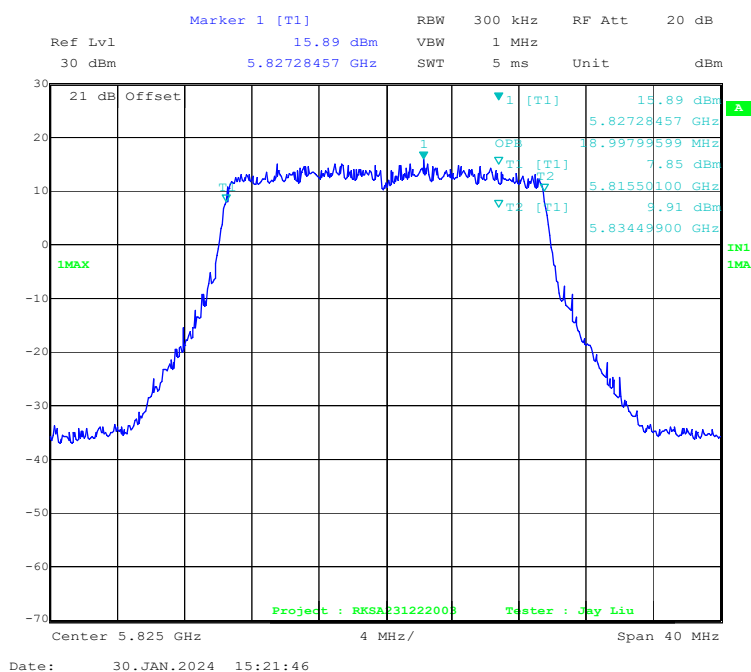
802.11ax20 mode, 5745MHz



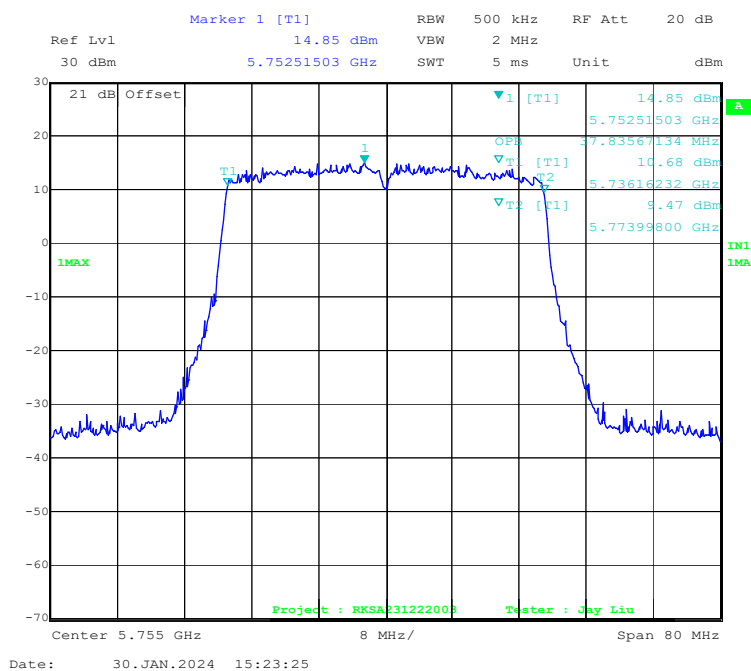
802.11ax20 mode, 5785MHz



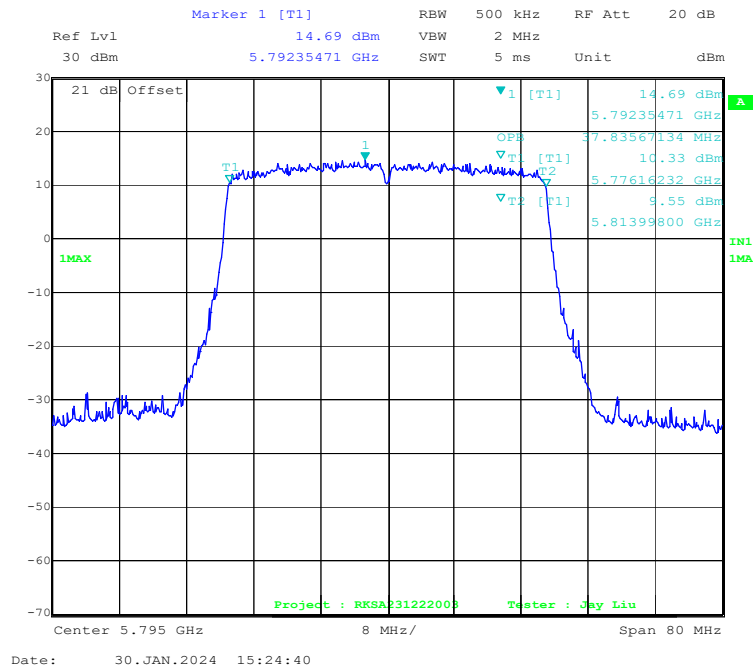
802.11ax20 mode, 5825MHz



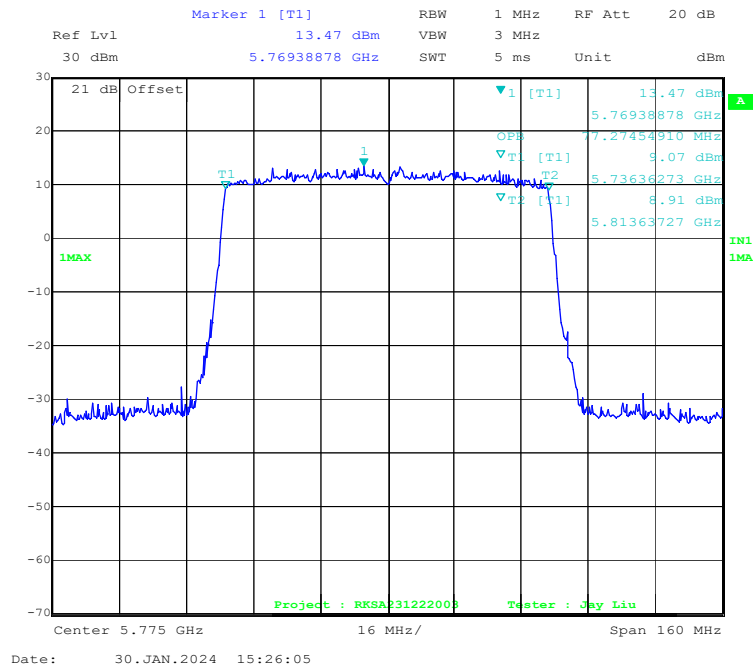
802.11ax40 mode, 5755MHz



802.11ax40 mode, 5795MHz



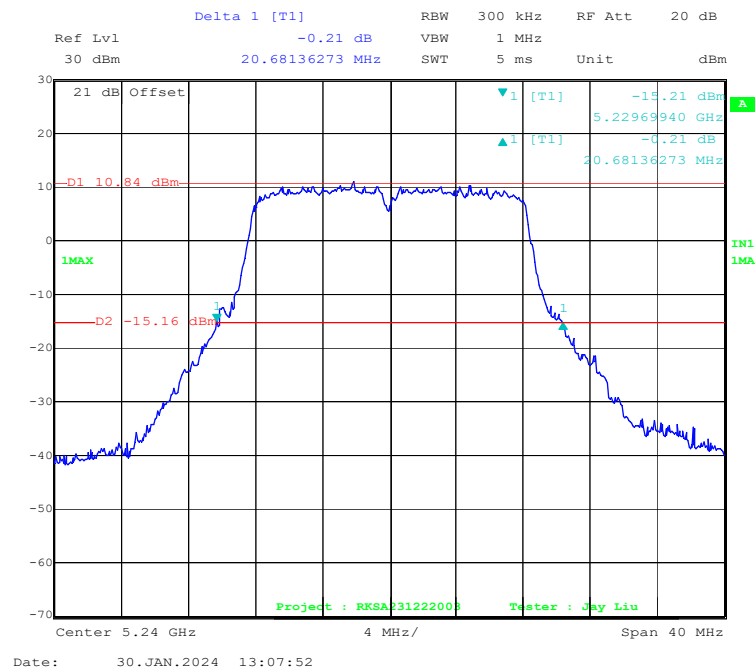
802.11-ax80 mode, 5775MHz



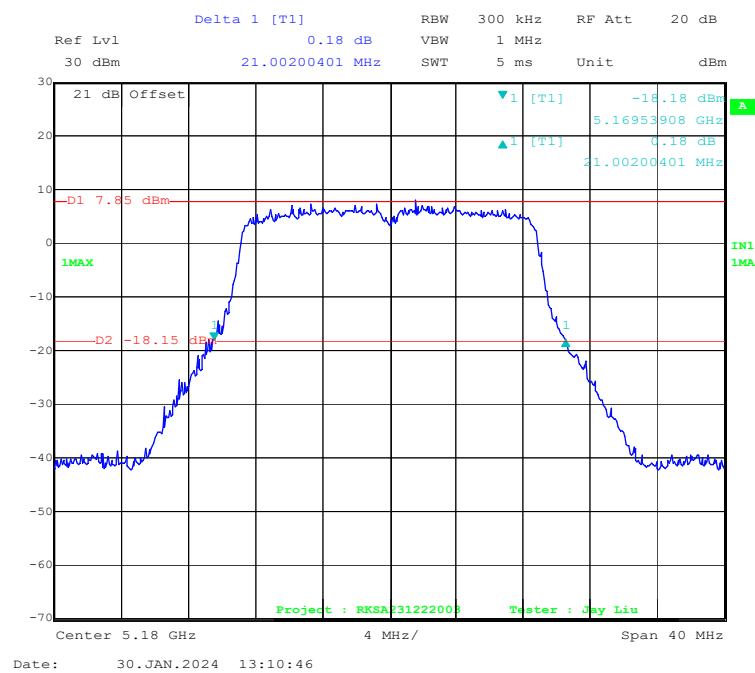
802.11a mode, 5180MHz



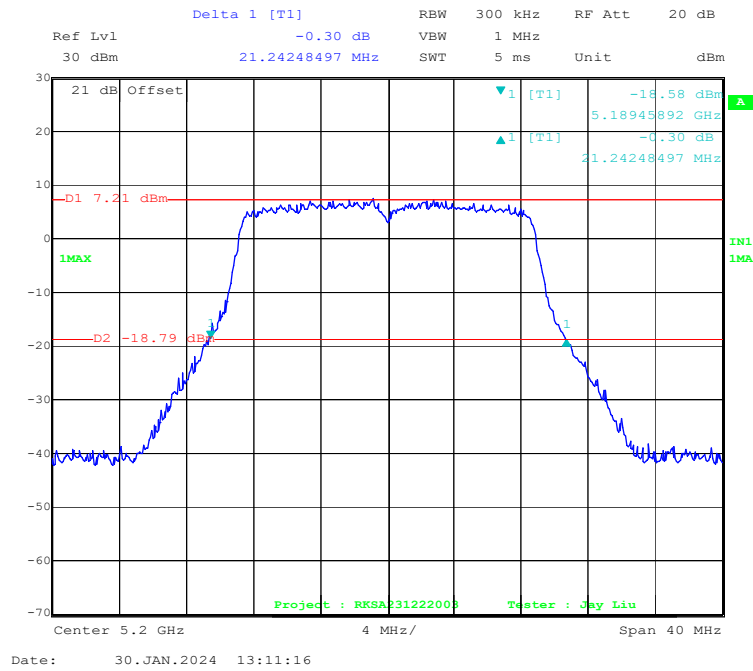
802.11a mode, 5240MHz



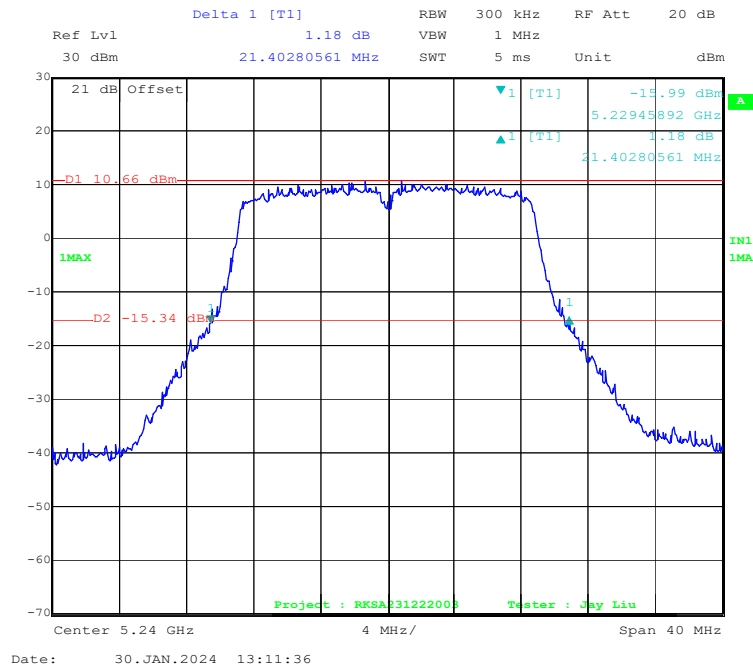
802.11ac20 mode, 5180MHz



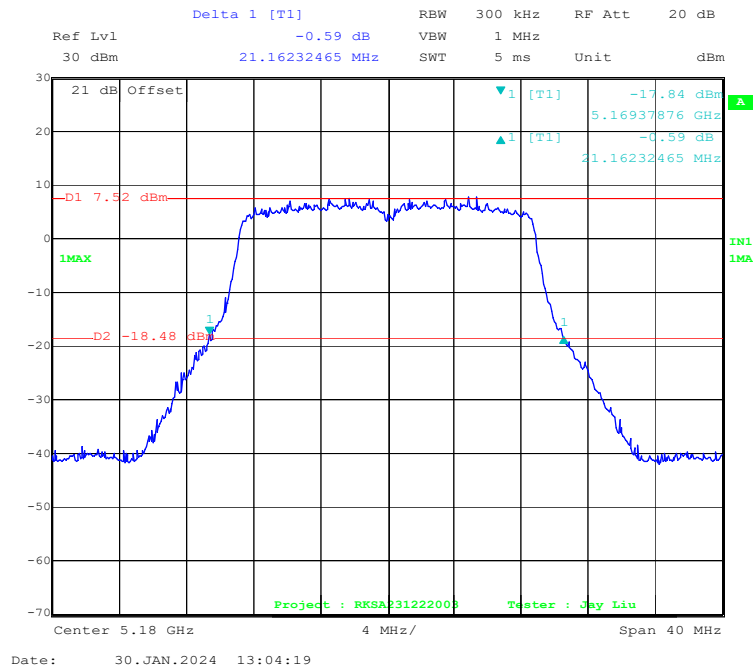
802.11ac20 mode, 5200MHz



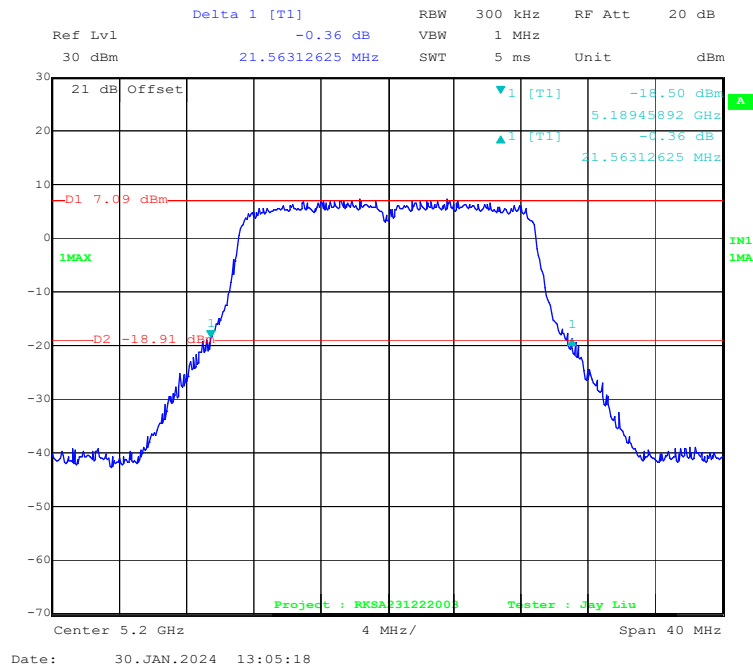
802.11ac20 mode, 5240MHz



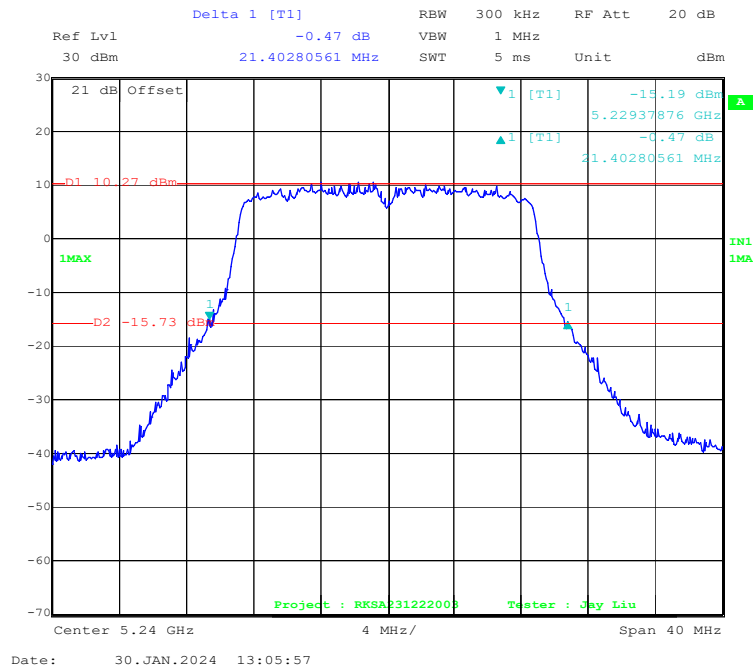
802.11n-HT20 mode, 5180MHz



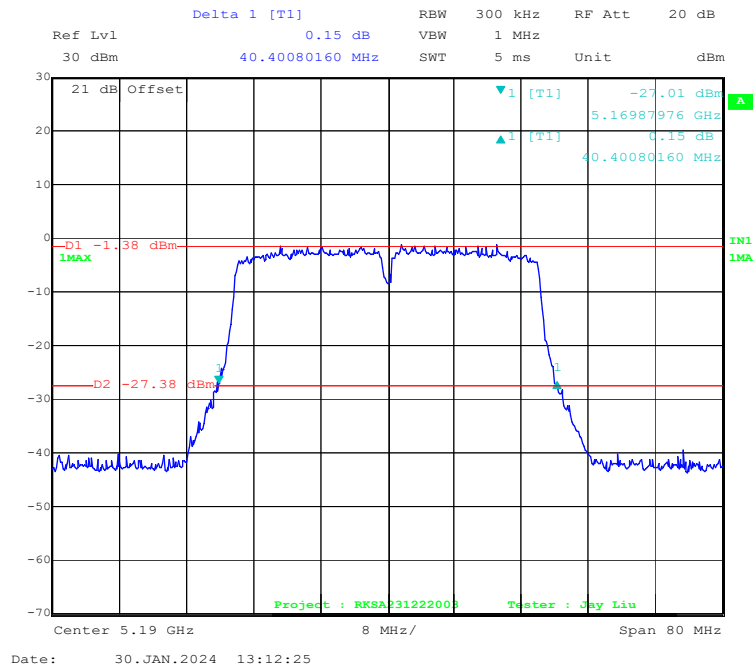
802.11n-HT20 mode, 5200MHz



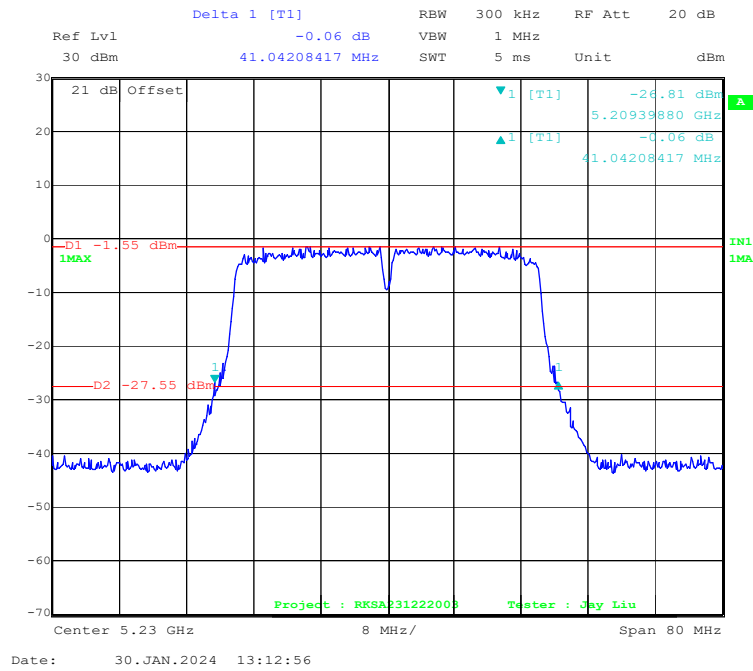
802.11n-HT20 mode, 5240MHz



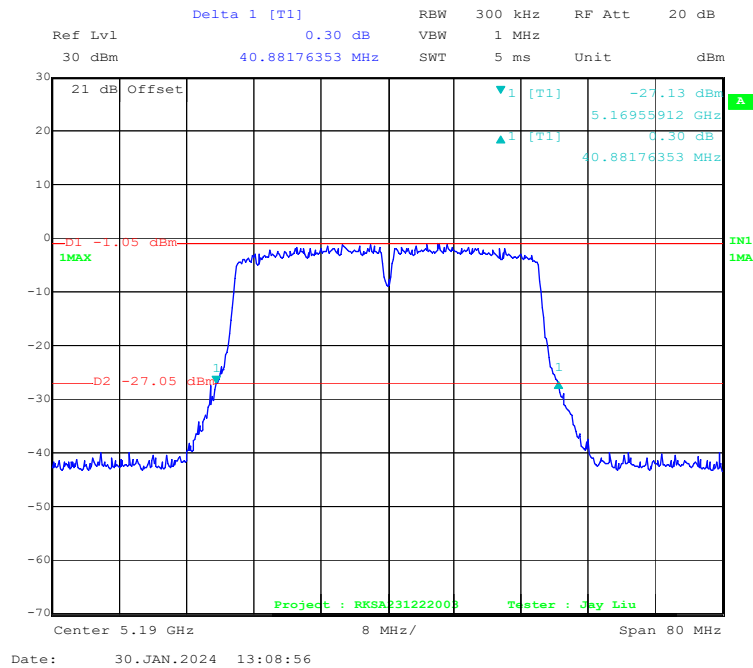
802.11ac40 mode, 5190MHz



802.11ac40 mode, 5230MHz



802.11n-HT40 mode, 5190MHz



Delta 1 [T1] -0.15 dB

RBW 300 kHz RF Att 20 dB

Ref Lvl 30 dBm

40.88176353 MHz

SWT 1 MHz

5 ms

Unit dBm

21 dB Offset

-17.90 dBm

5.20971944 GHz

-0.15 dB

40.88176353 MHz

D1 7.52 dBm

1MAX

D2 -18.48 dBm

IN1

1MA

Project : RKSA231222009

Tester : Jay Liu

Center 5.23 GHz

8 MHz/

Span 80 MHz

Date: 30.JAN.2024 13:09:41

Delta 1 [T1] -0.16 dB

Ref Lvl 30 dBm

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

RF Att 20 dB

Unit dBm

21 dB Offset

▼1 [T1] -25.52 dBm

5.16879760 GHz

▲1 [T1] -0.16 dB

82.72545090 MHz

D1 0.34 dBm

IMAX

D2 -25.66 dBm

IN1

1MA

Project : RKSA231222009

Tester : Jay Liu

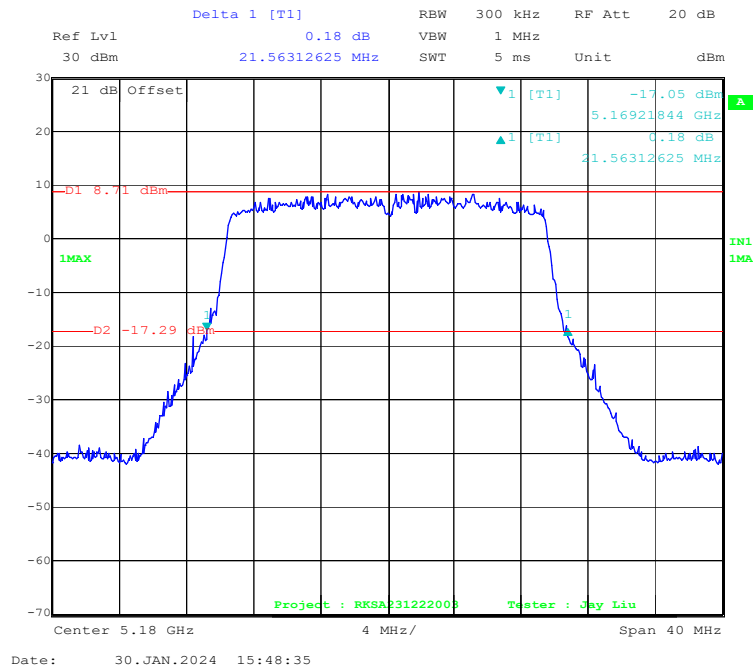
Center 5.21 GHz

16 MHz/

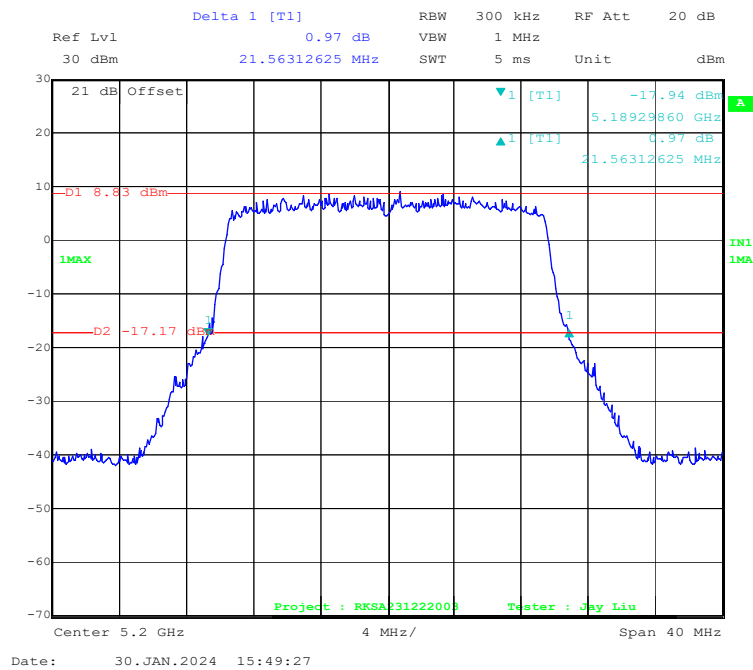
Span 160 MHz

Date: 30.JAN.2024 13:52:29

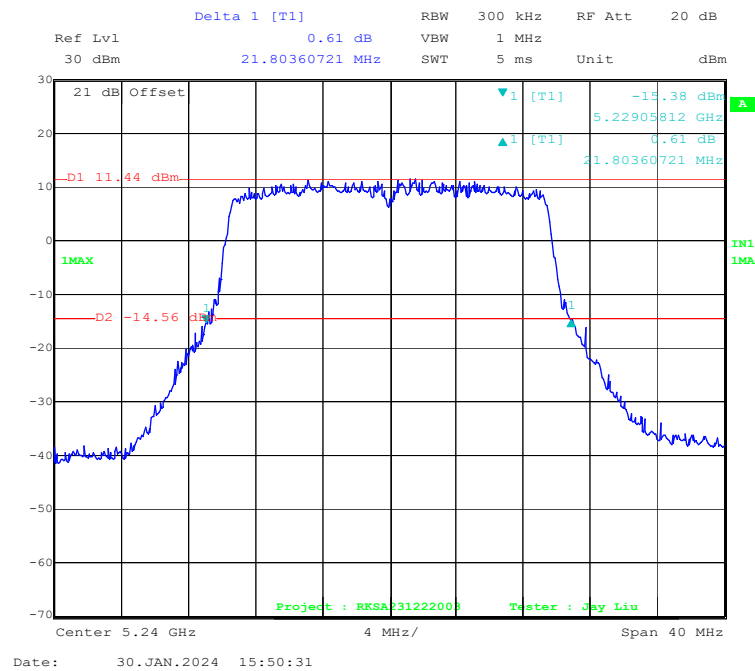
802.11ax20 mode, 5180MHz



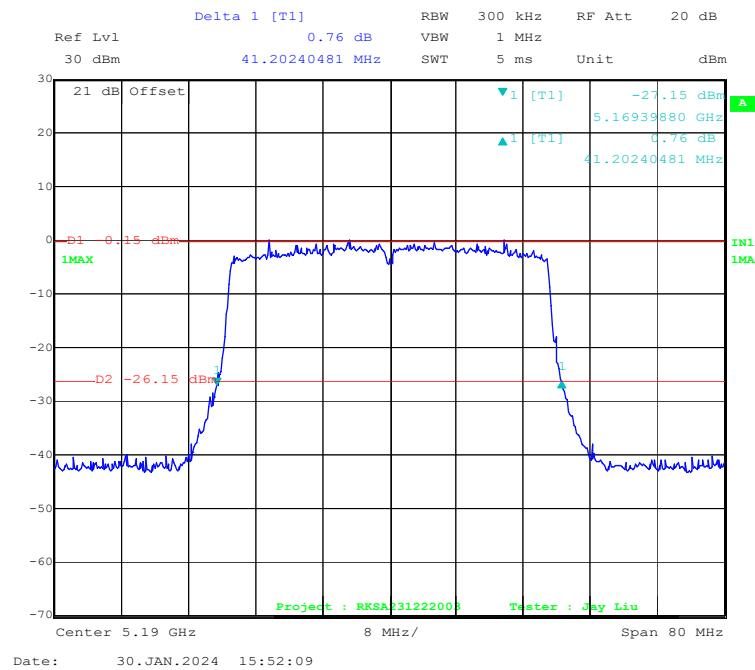
802.11ax20 mode, 5200MHz



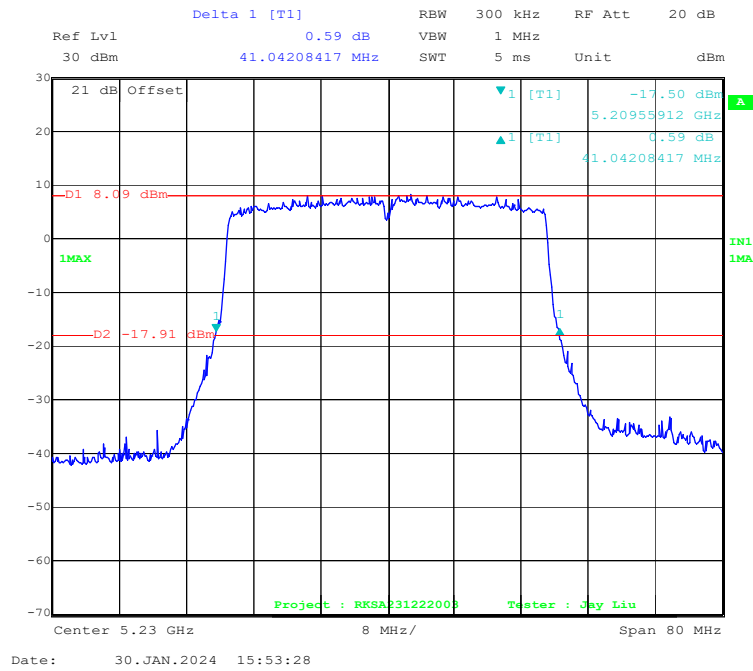
802.11ax20 mode, 5240MHz



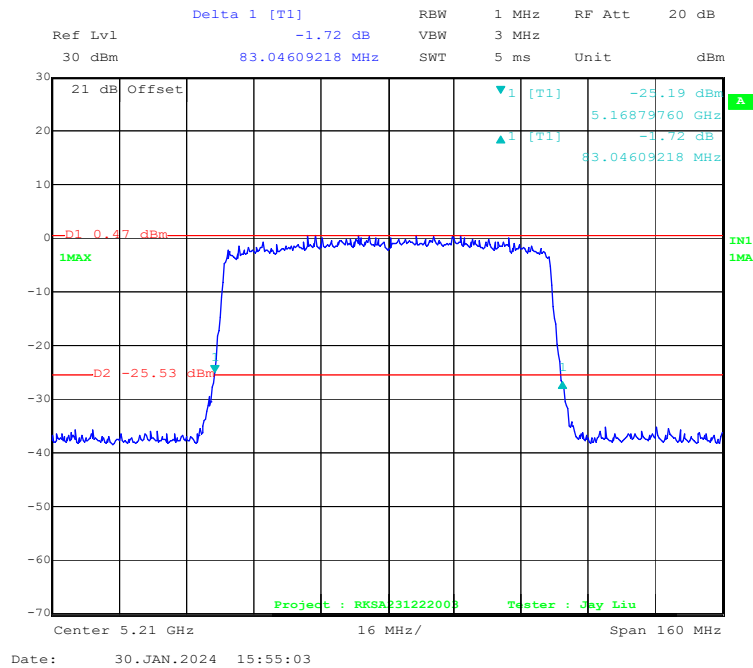
802.11ax40 mode, 5190MHz



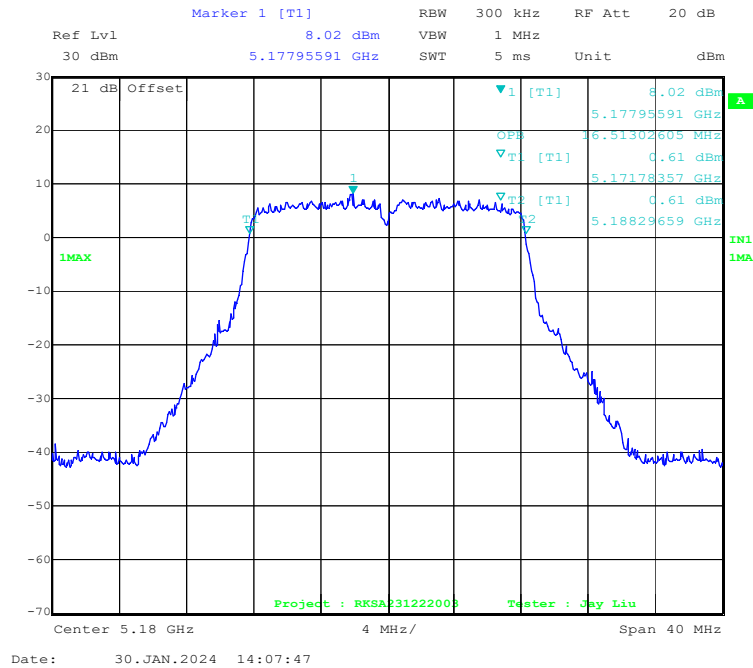
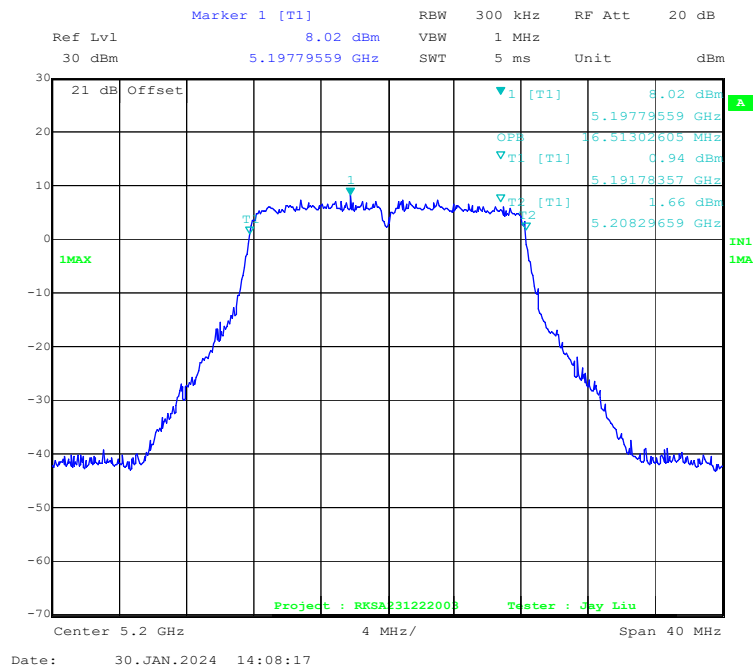
802.11ax40 mode, 5230MHz



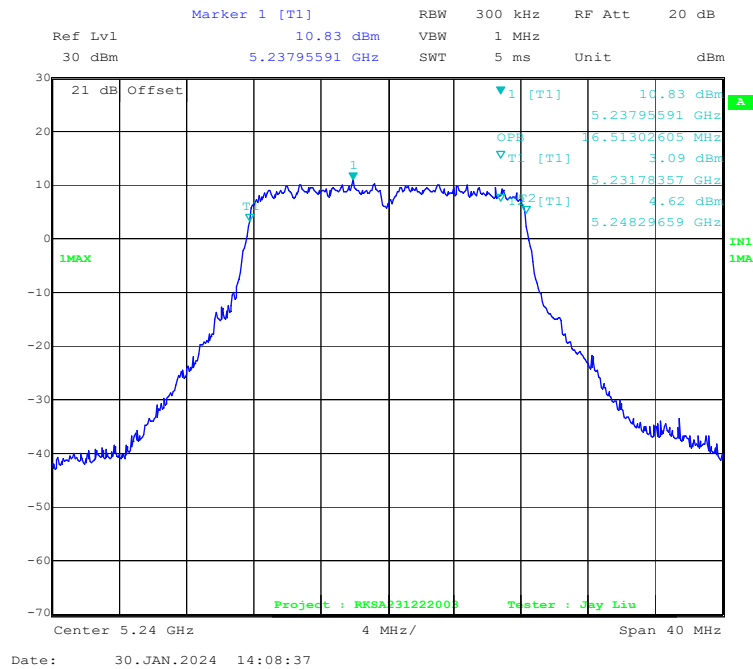
802.11ax80 mode, 5210MHz



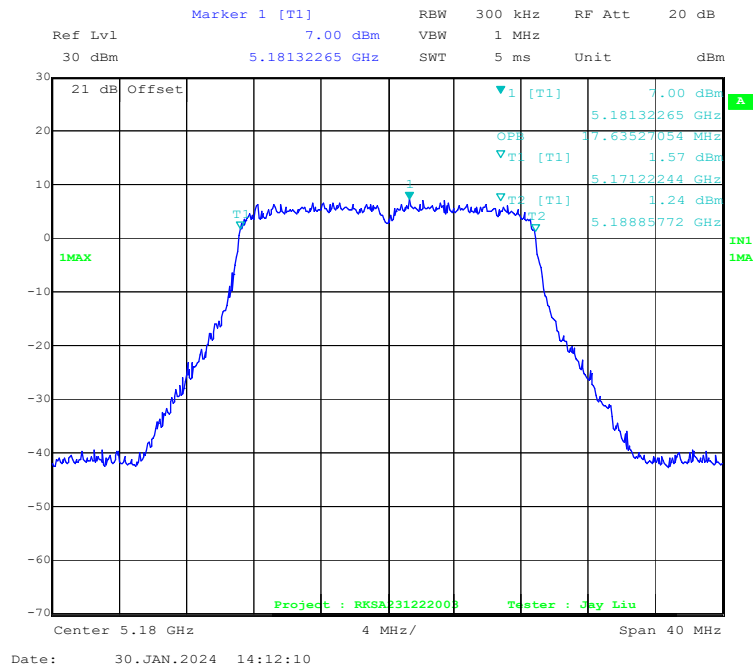
99% Occupied Bandwidth:
5150-5250 MHz Band:

802.11a mode, 5180MHz**802.11a mode, 5200MHz**

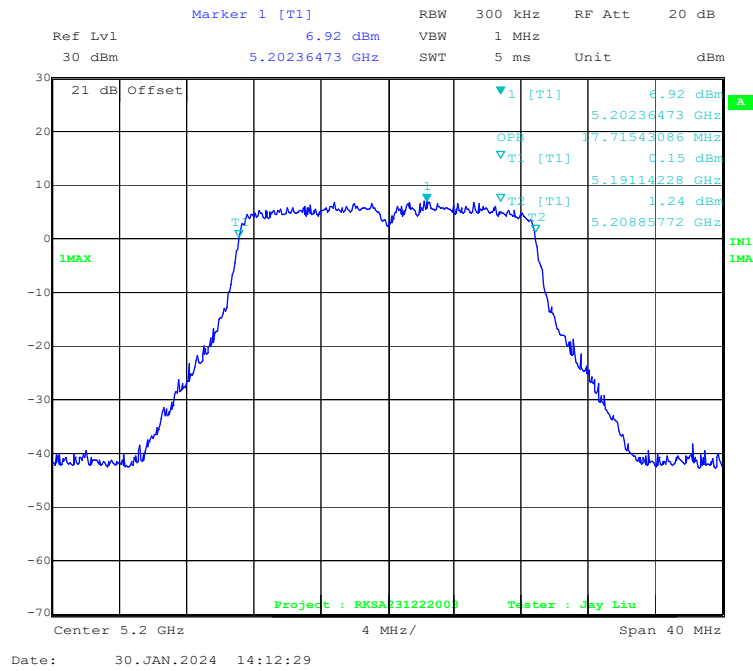
802.11a mode, 5240MHz



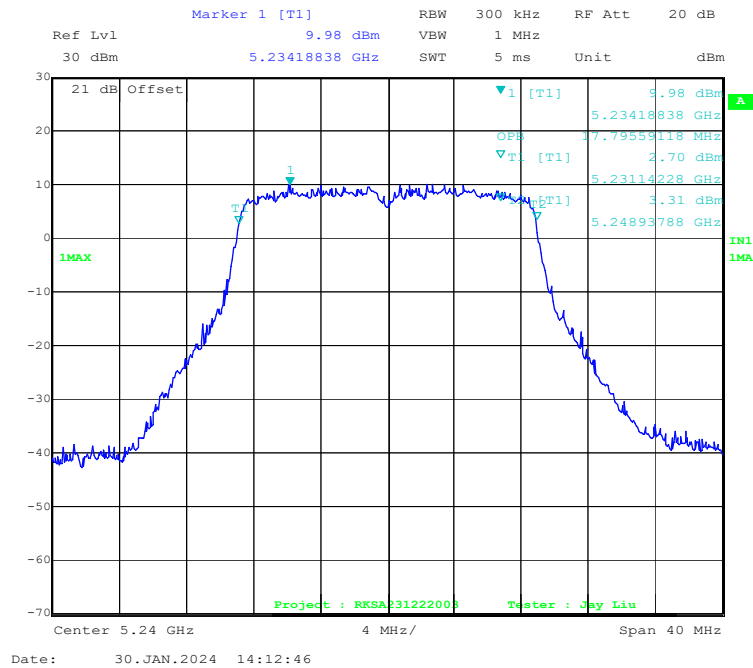
802.11ac20 mode, 5180MHz



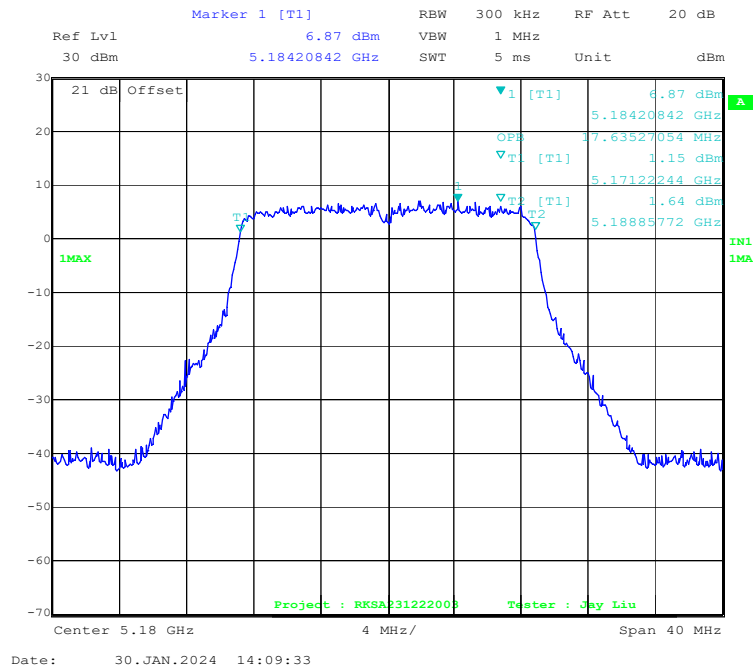
802.11ac20 mode, 5200MHz



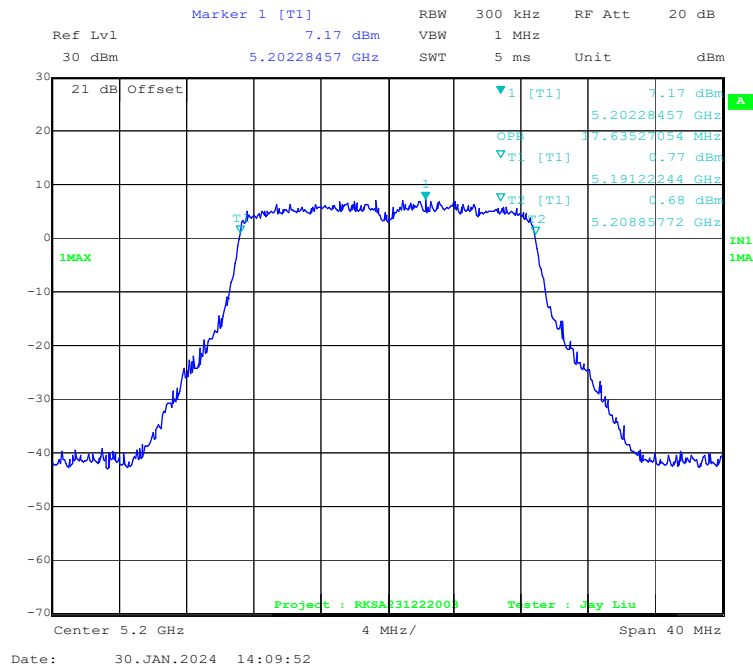
802.11ac20 mode, 5240MHz



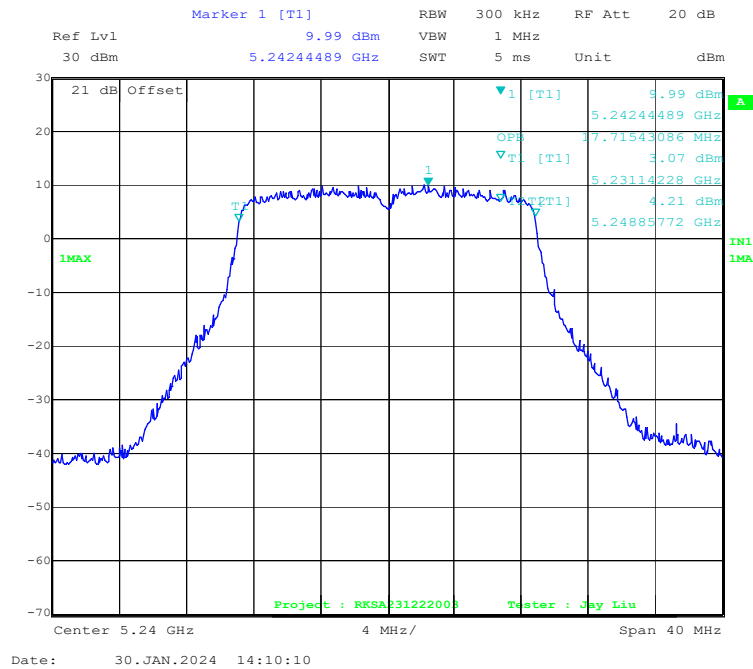
802.11n-HT20 mode, 5180MHz



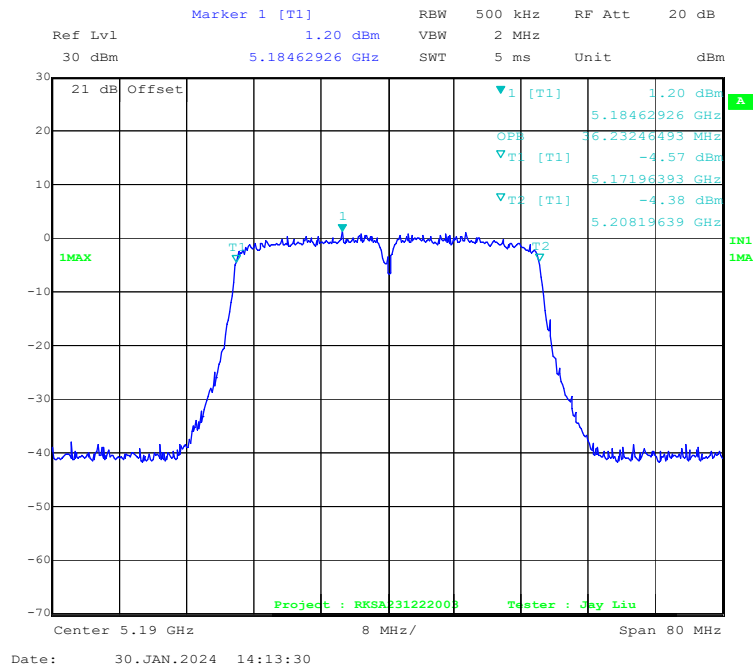
802.11n-HT20 mode, 5200MHz



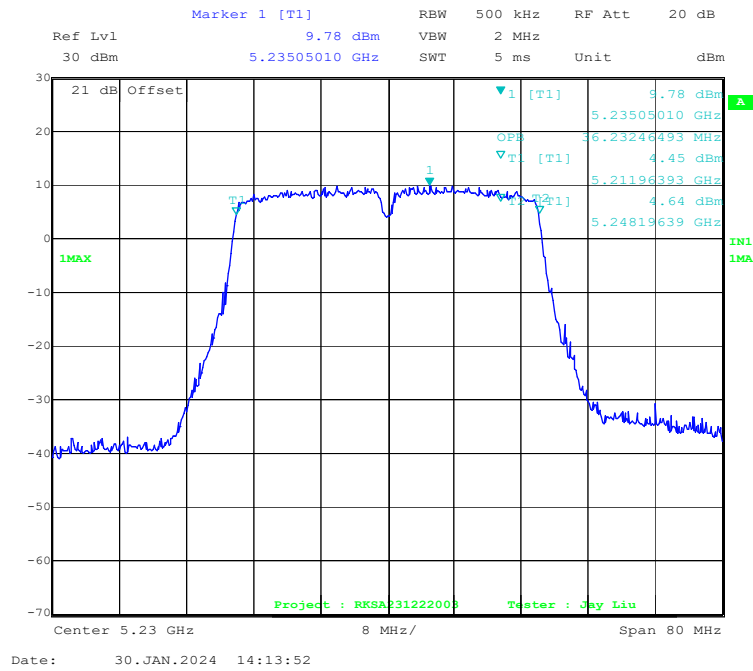
802.11n-HT20 mode, 5240MHz



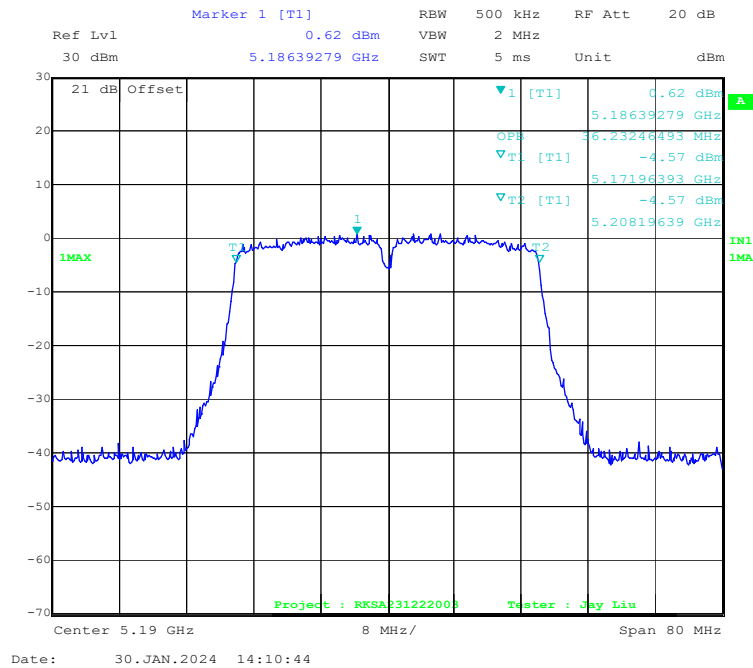
802.11ac40 mode, 5190MHz



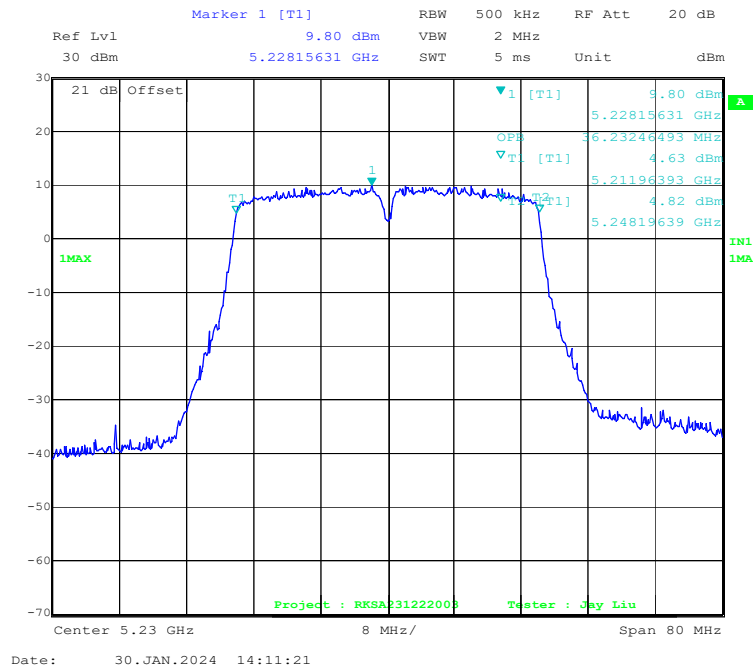
802.11ac40 mode, 5230MHz



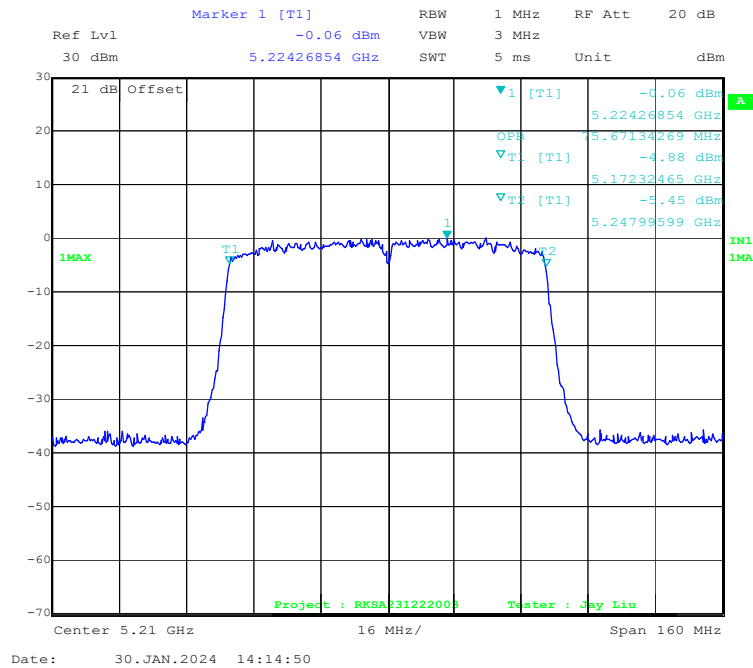
802.11n-HT40 mode, 5190MHz



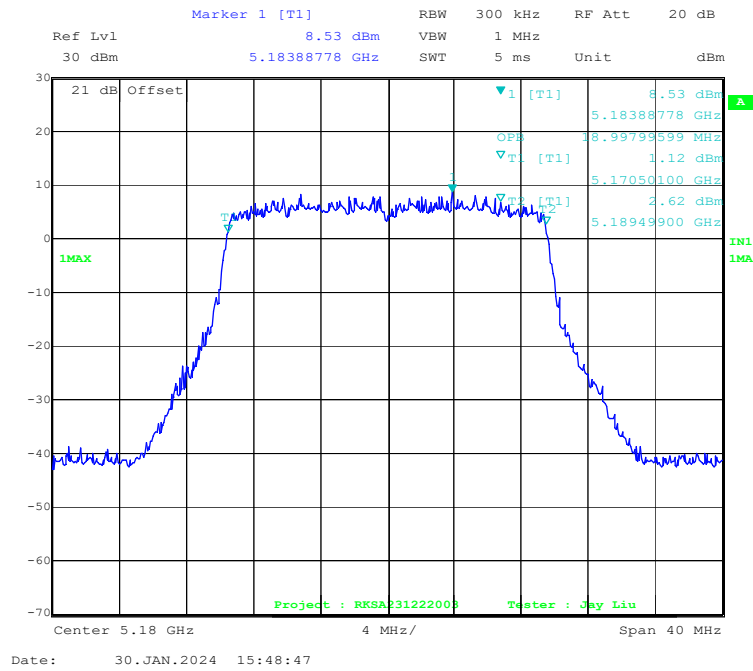
802.11n-HT40 mode, 5230MHz



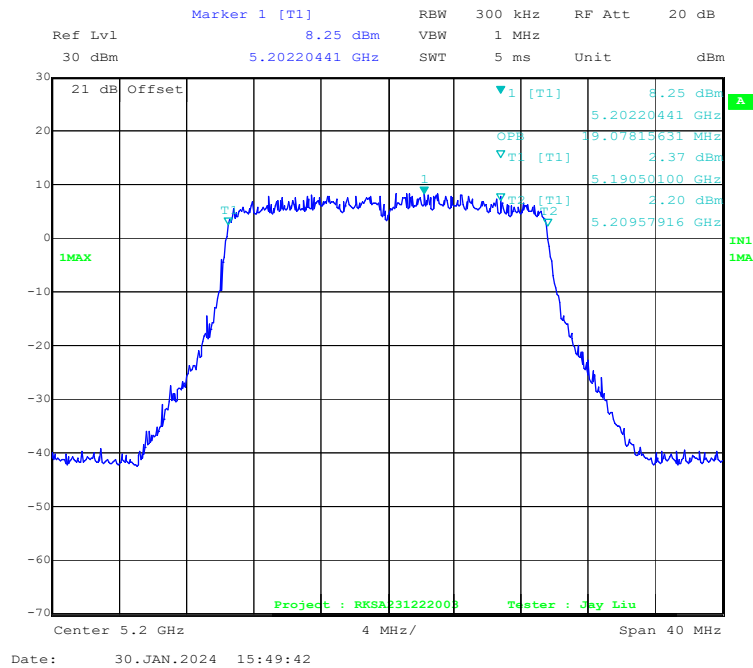
802.11ac80 mode, 5210MHz



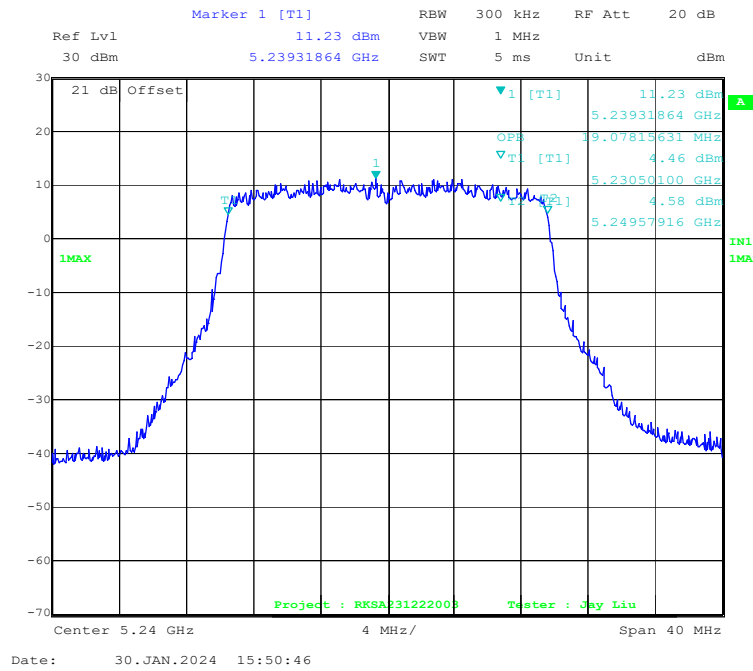
802.11ax20 mode, 5180MHz



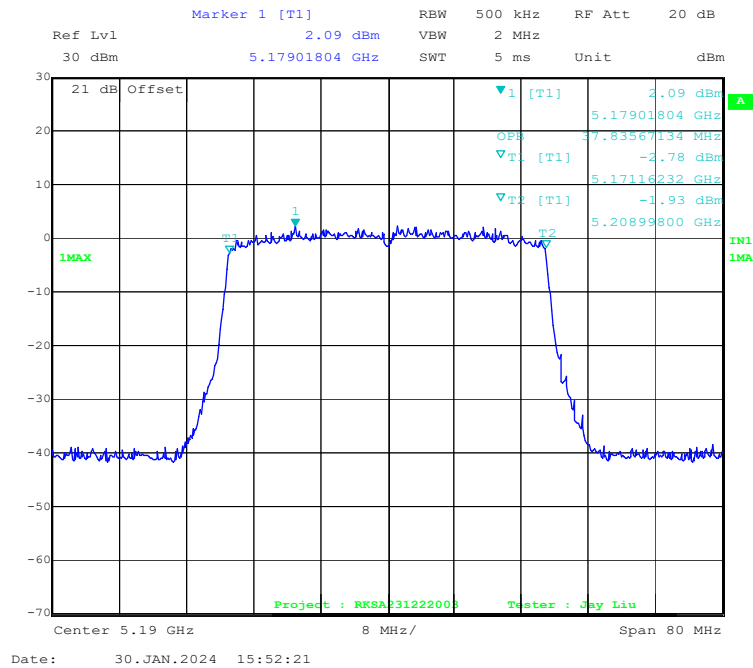
802.11ax20 mode, 5200MHz



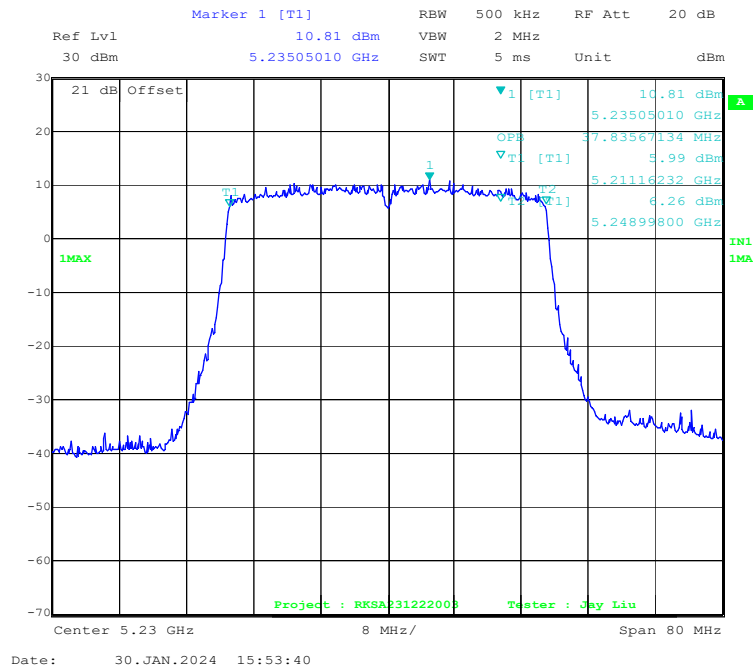
802.11ax20 mode, 5240MHz



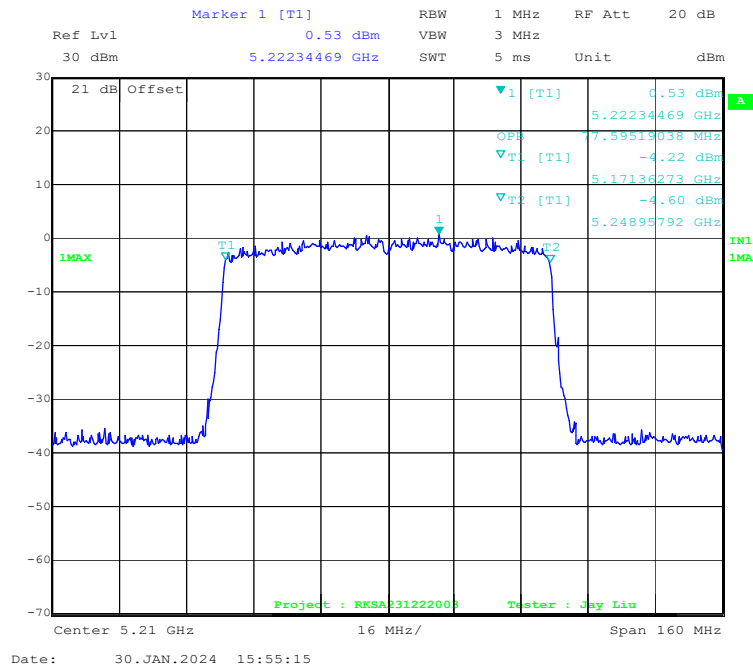
802.11ax40 mode, 5190MHz



802.11ax40 mode, 5230MHz

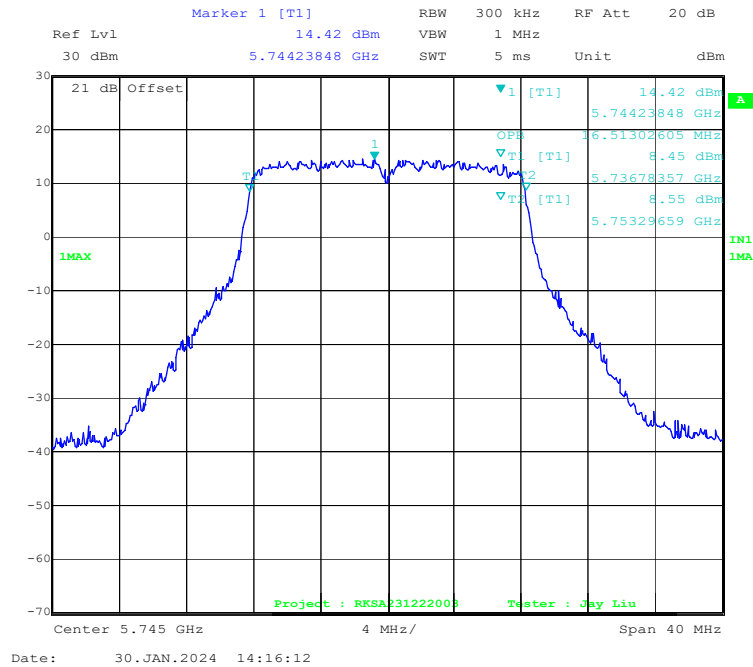


802.11ax80 mode, 5210MHz

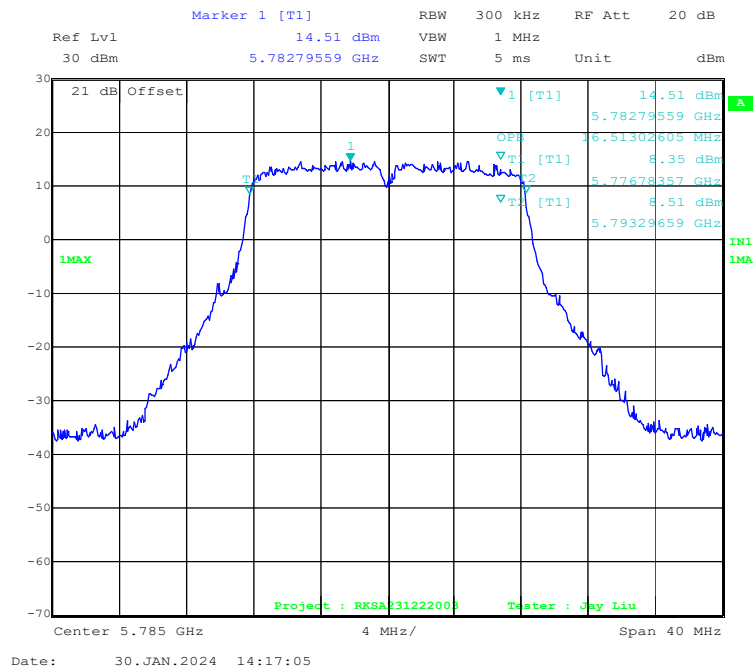


5725-5850 MHz Band

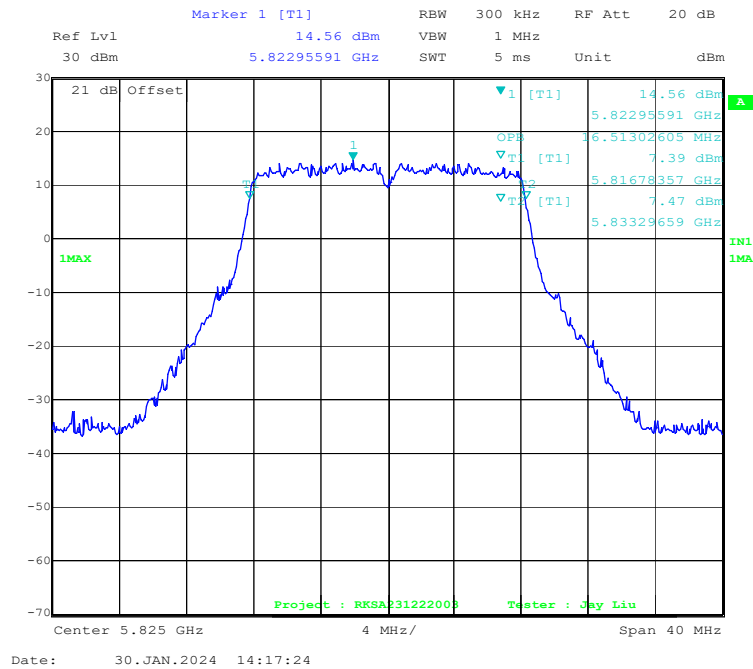
802.11a mode, 5745MHz



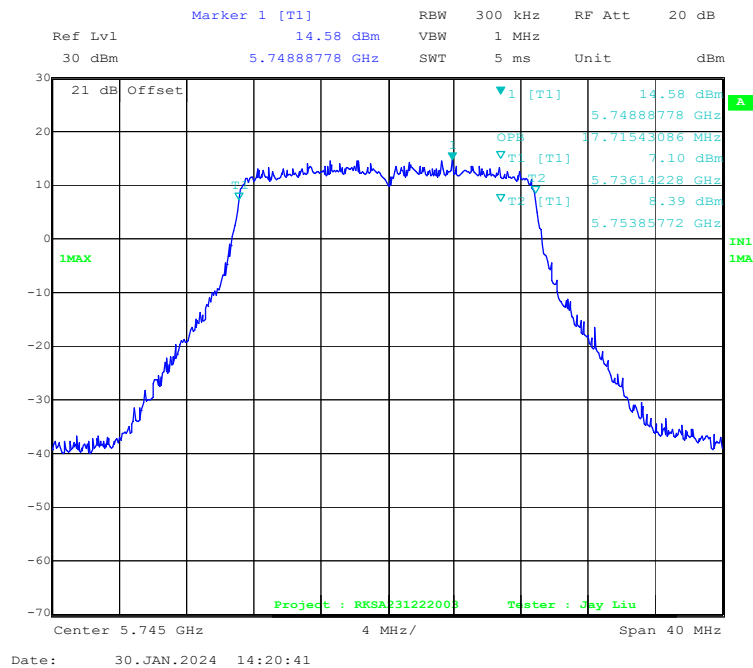
802.11a mode, 5785MHz



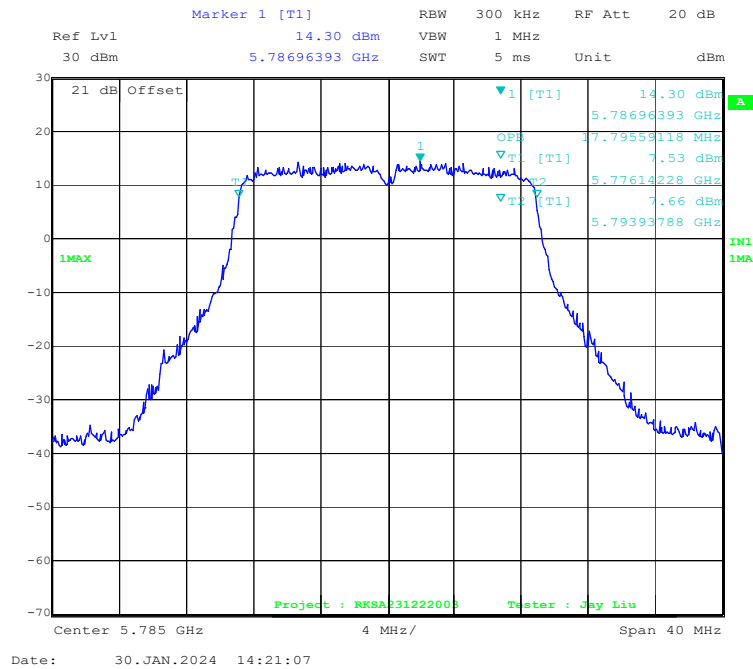
802.11a mode, 5825MHz



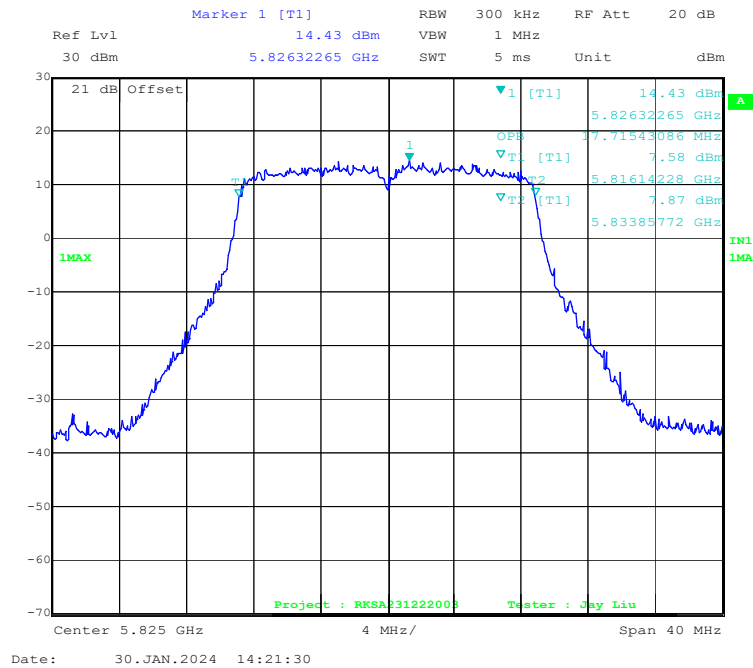
802.11ac20 mode, 5745MHz



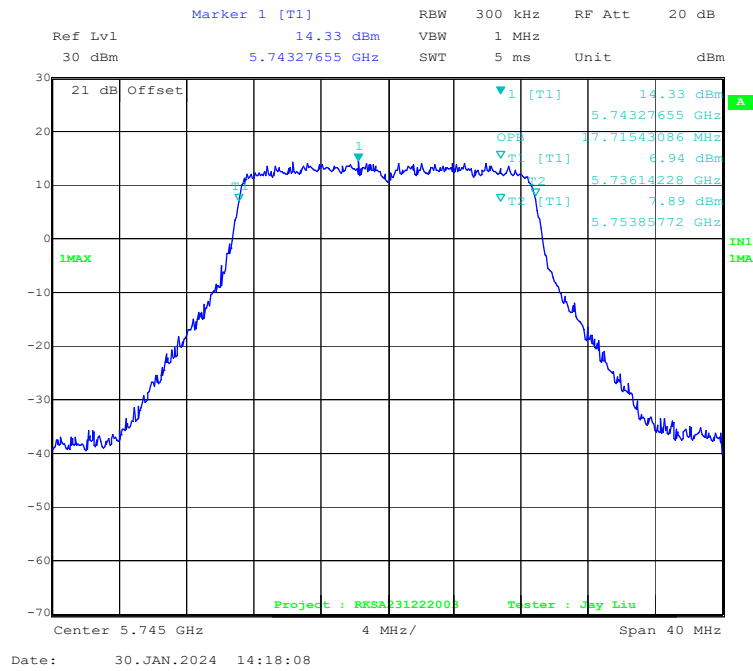
802.11ac20 mode, 5785MHz



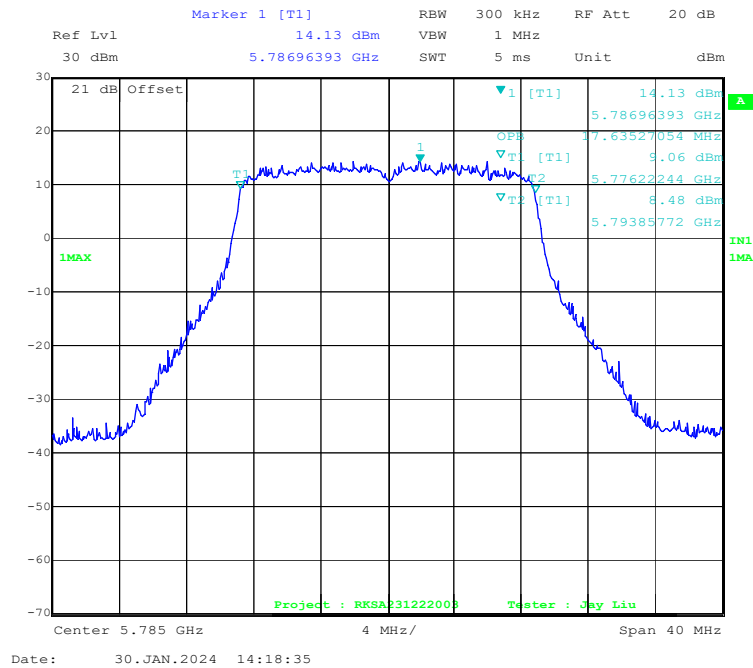
802.11ac20 mode, 5825MHz



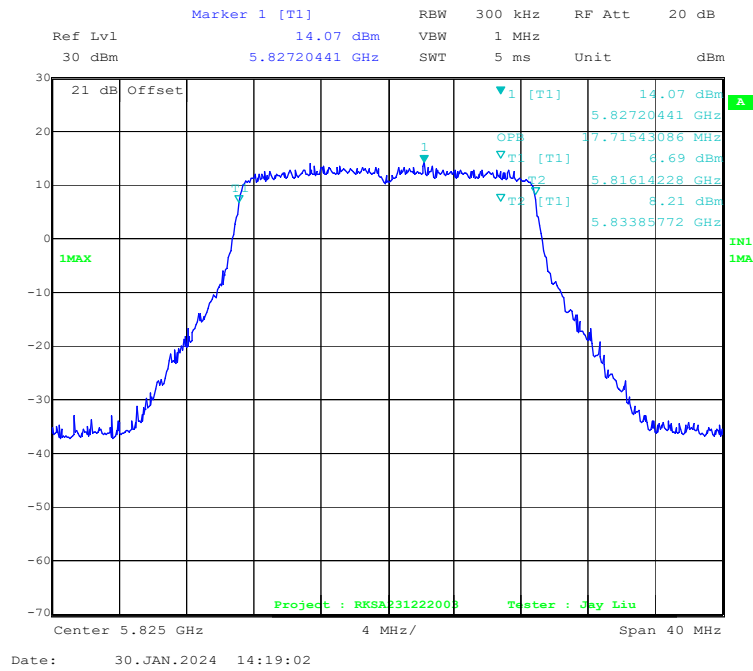
802.11n-HT20 mode, 5745MHz



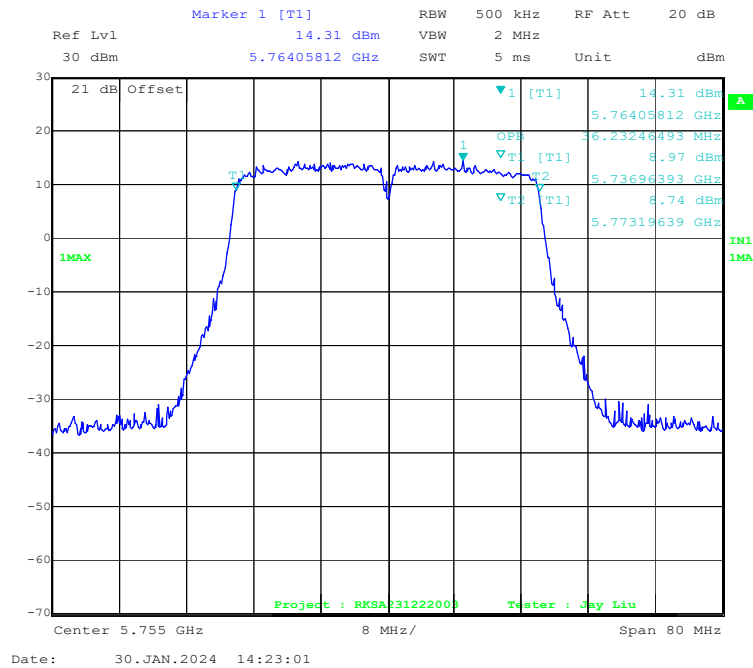
802.11n-HT20 mode, 5785MHz



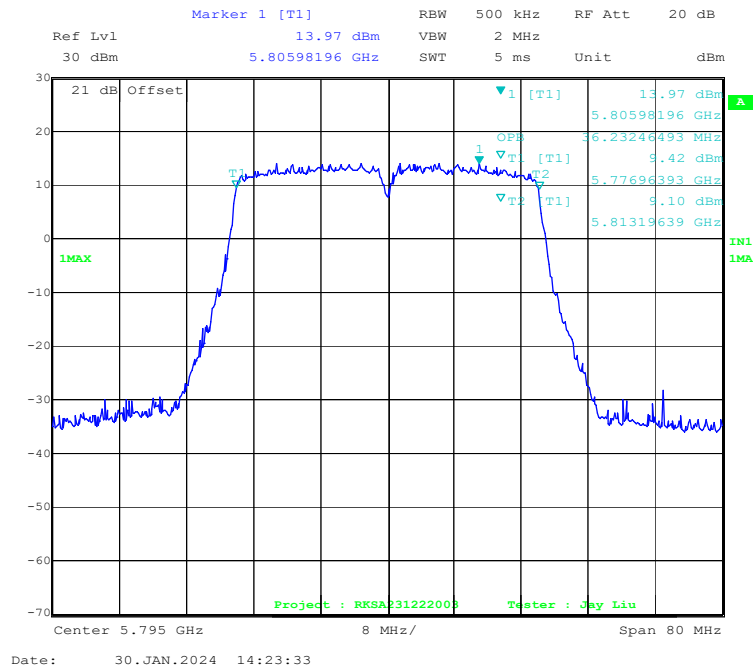
802.11n-HT20 mode, 5825MHz



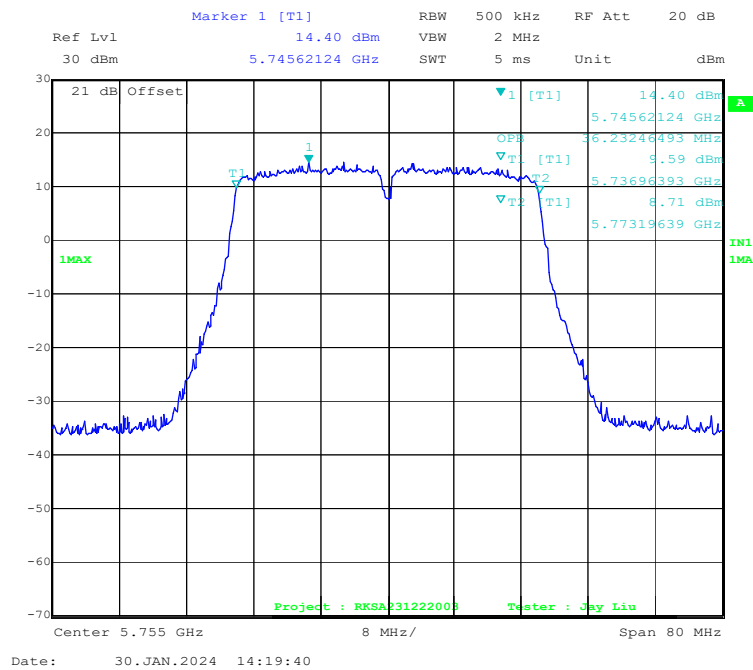
802.11ac40 mode, 5755MHz



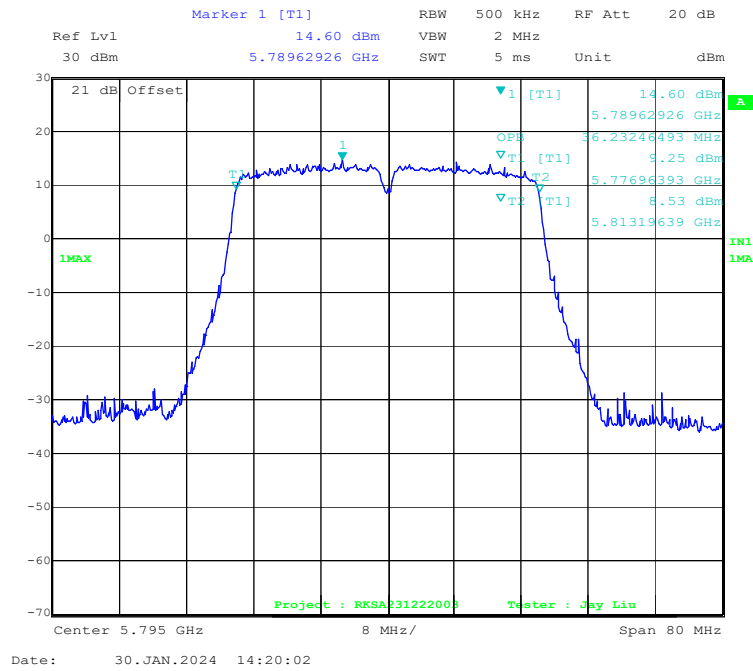
802.11ac40 mode, 5795MHz



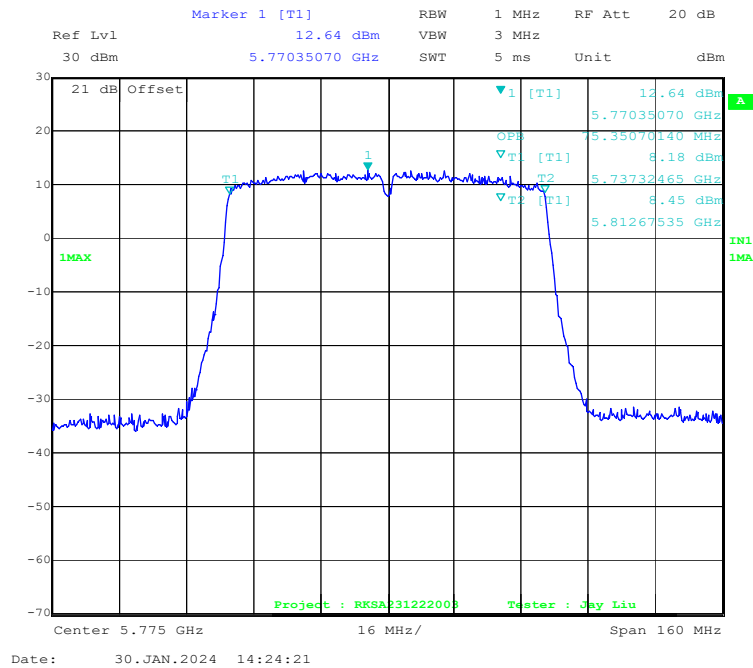
802.11n-HT40 mode, 5755MHz



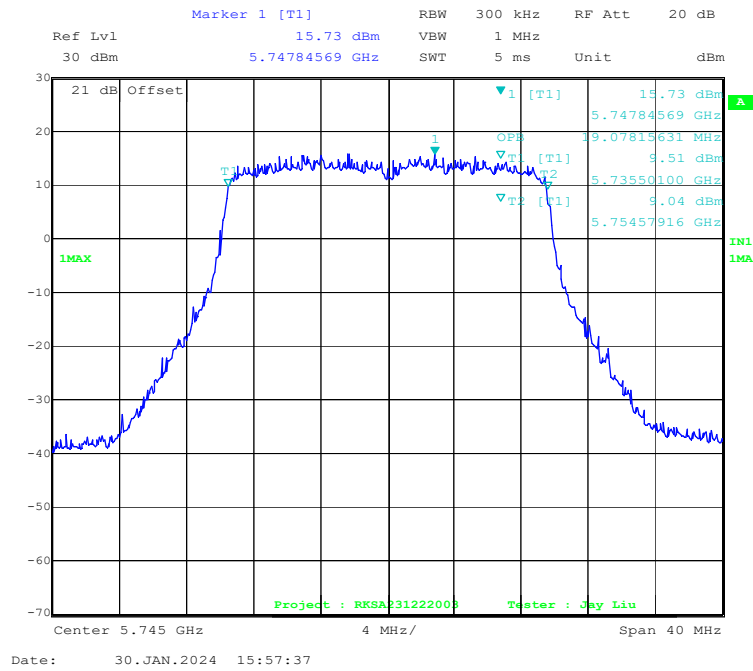
802.11n-HT40 mode, 5795MHz



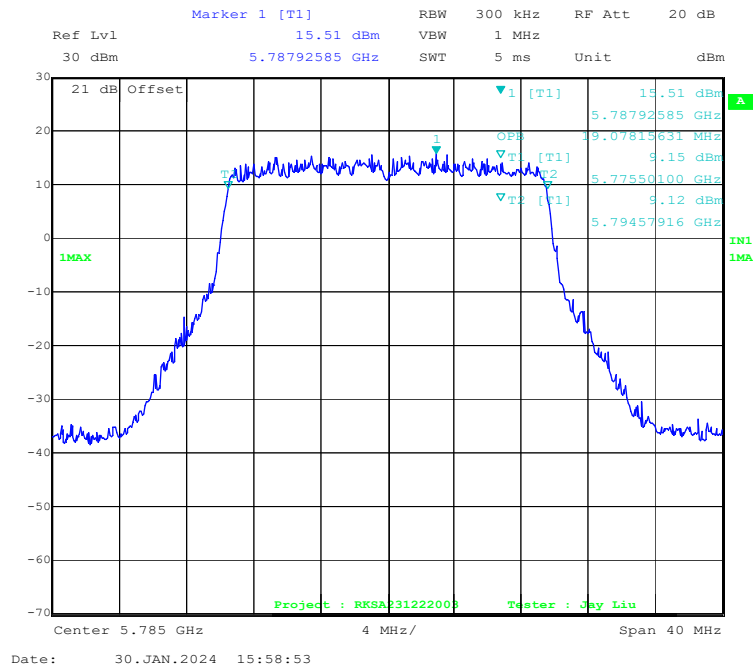
802.11n-ac80 mode, 5775MHz



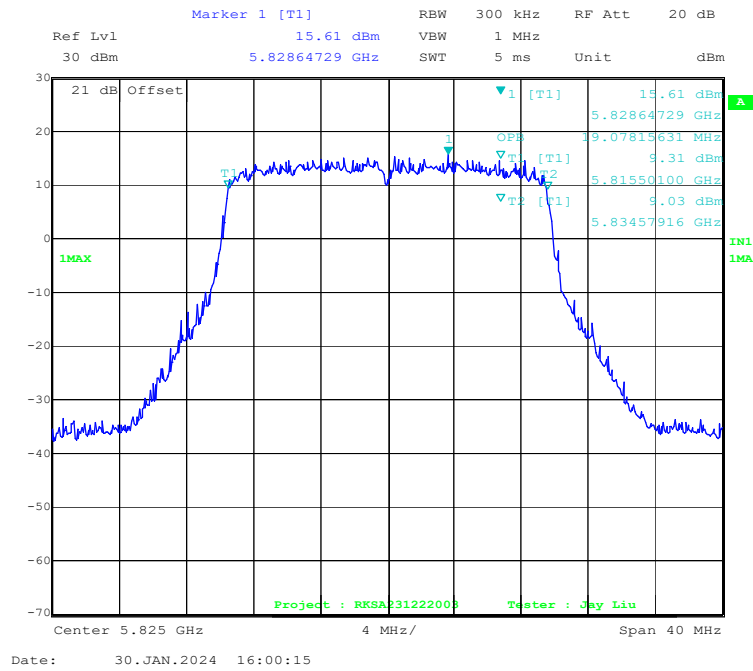
802.11ax20 mode, 5745MHz



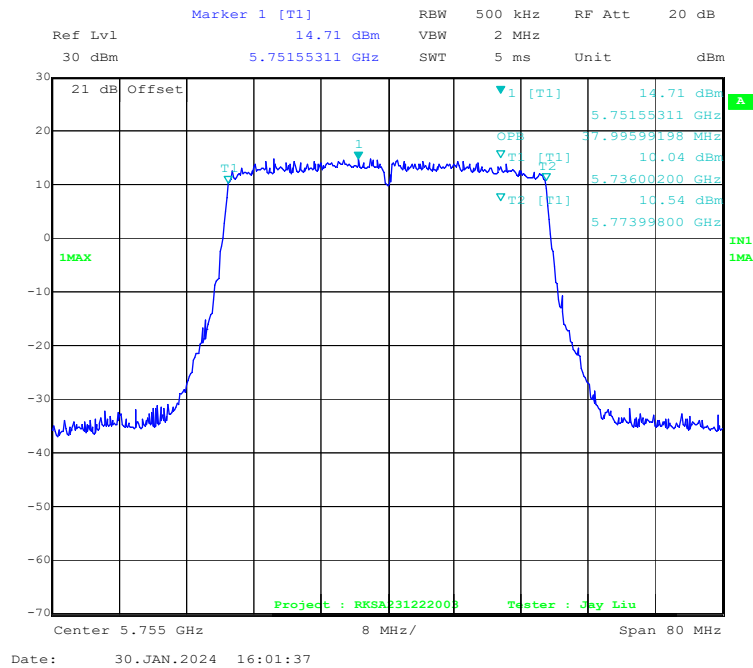
802.11ax20 mode, 5785MHz



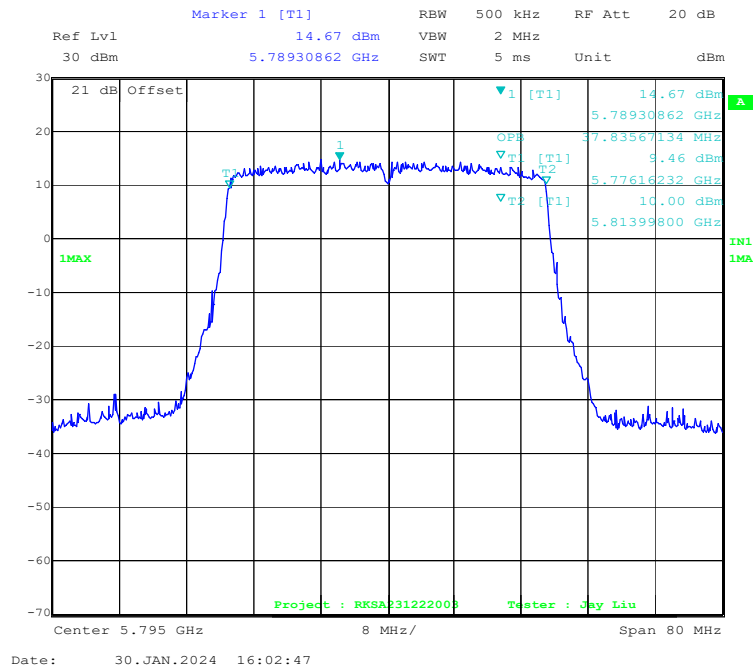
802.11ax20 mode, 5825MHz



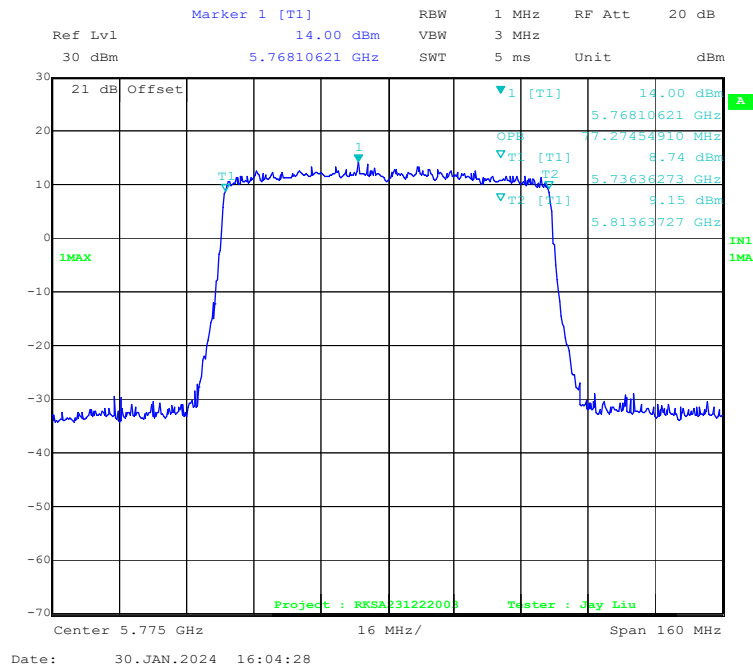
802.11ax40 mode, 5755MHz



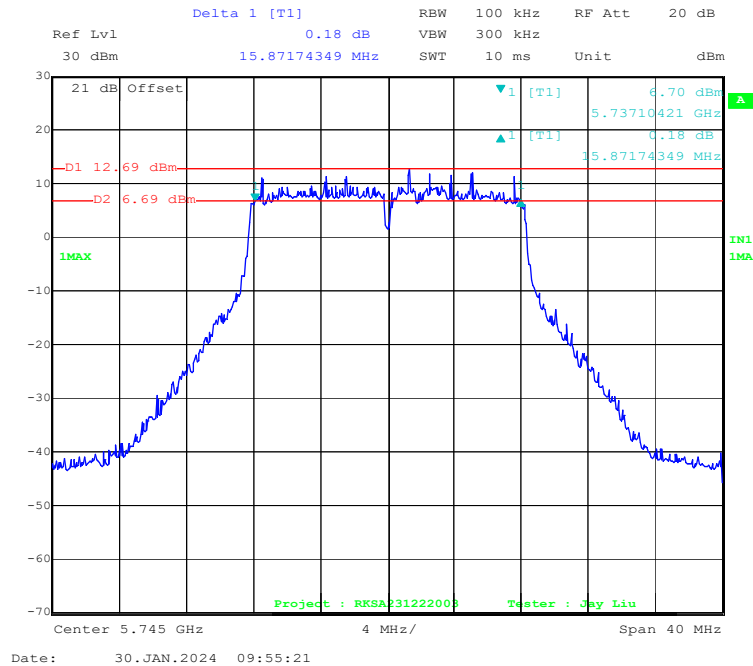
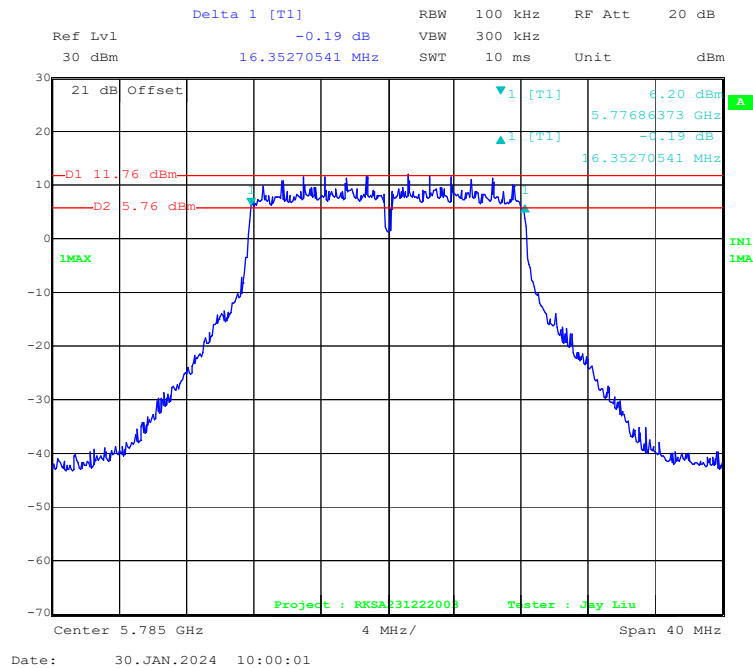
802.11ax40 mode, 5795MHz



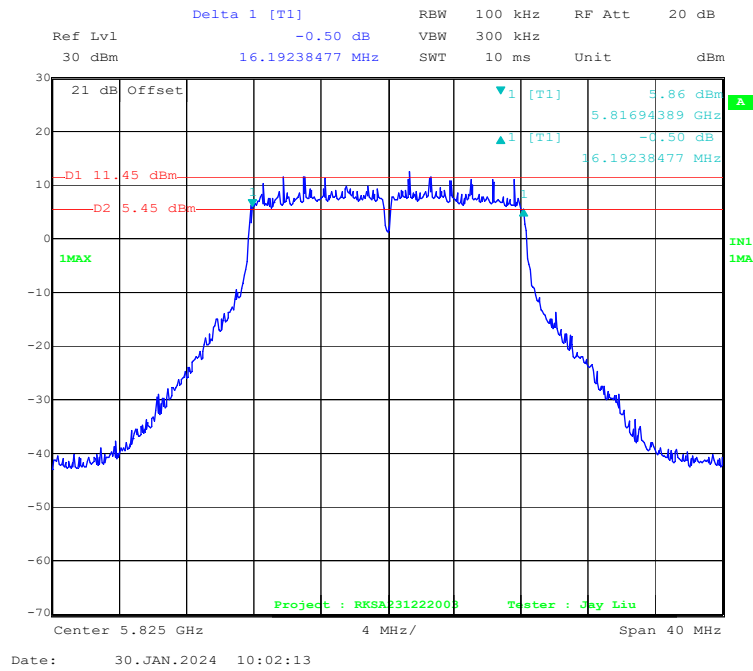
802.11-ax80 mode, 5775MHz



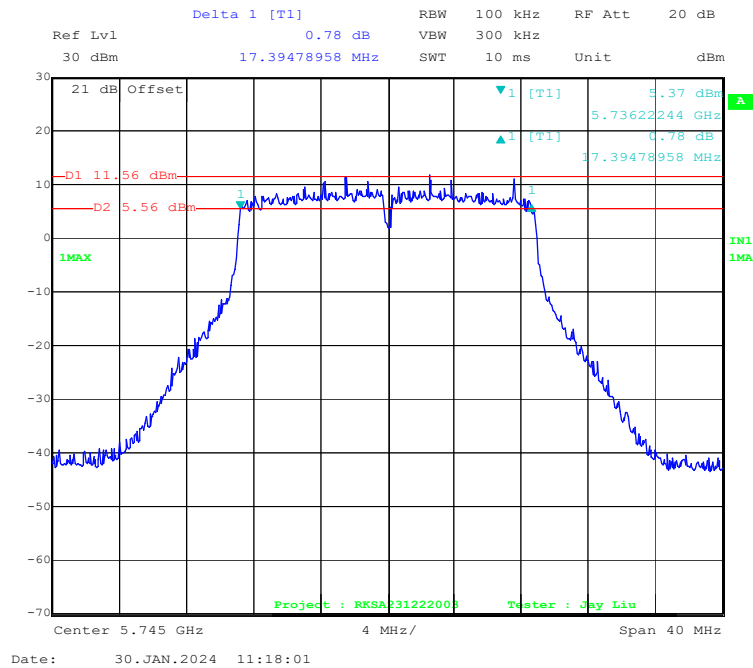
Chain 0:
6dB Bandwidth
5725-5850 MHz Band

802.11a mode, 5745MHz**802.11a mode, 5785MHz**

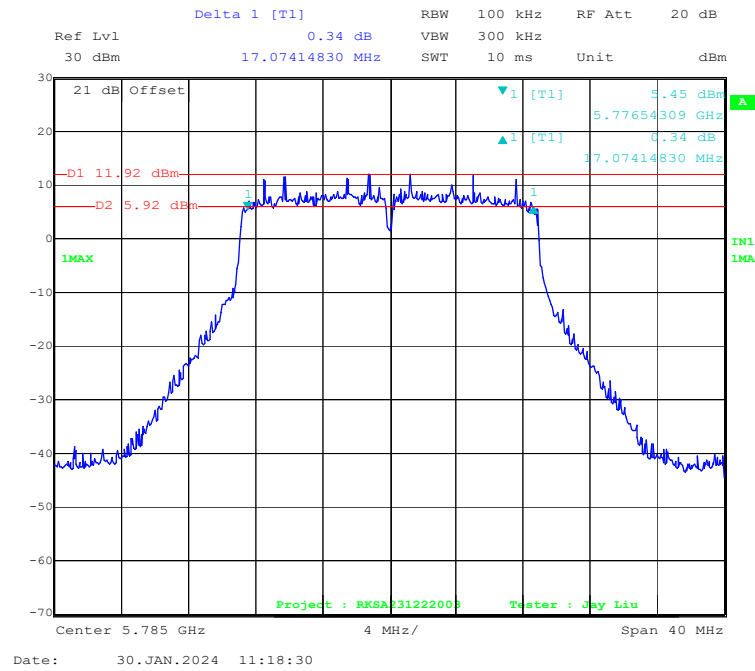
802.11a mode, 5825MHz



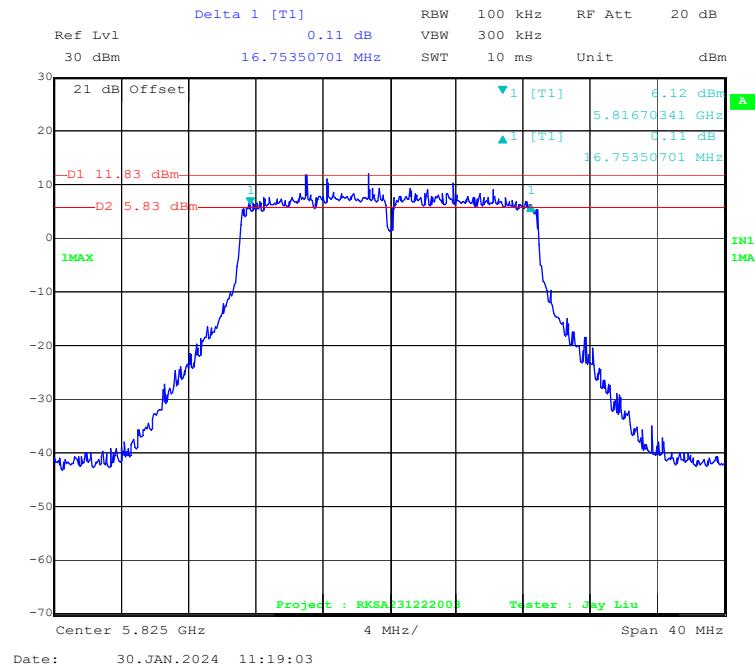
802.11ac20 mode, 5745MHz



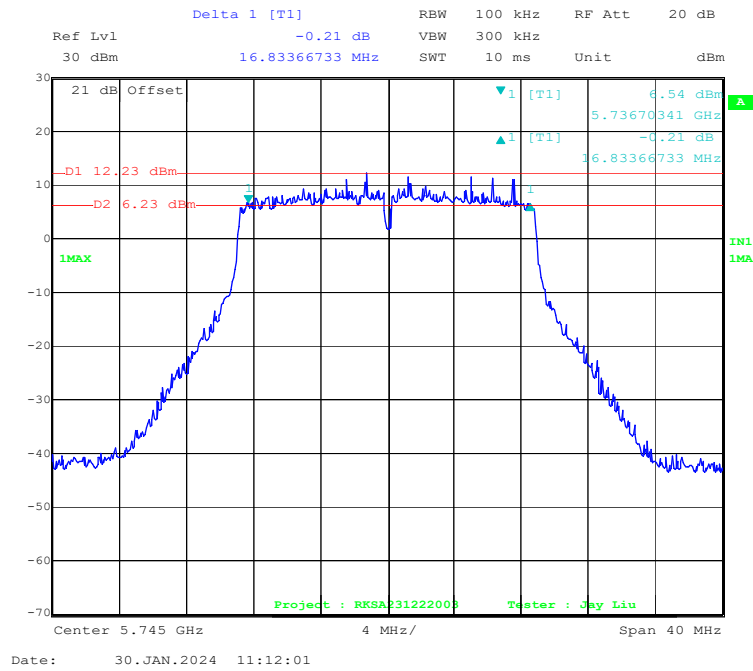
802.11ac20 mode, 5785MHz



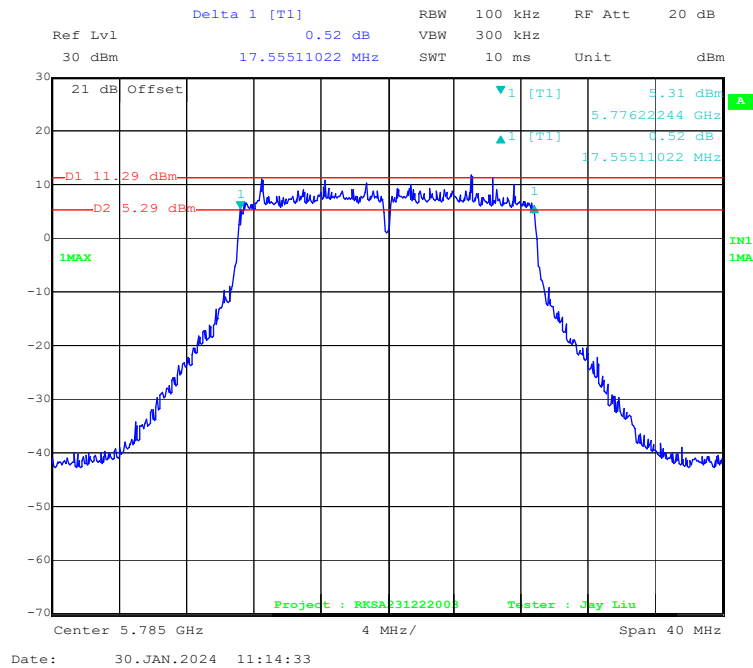
802.11ac20 mode, 5825MHz



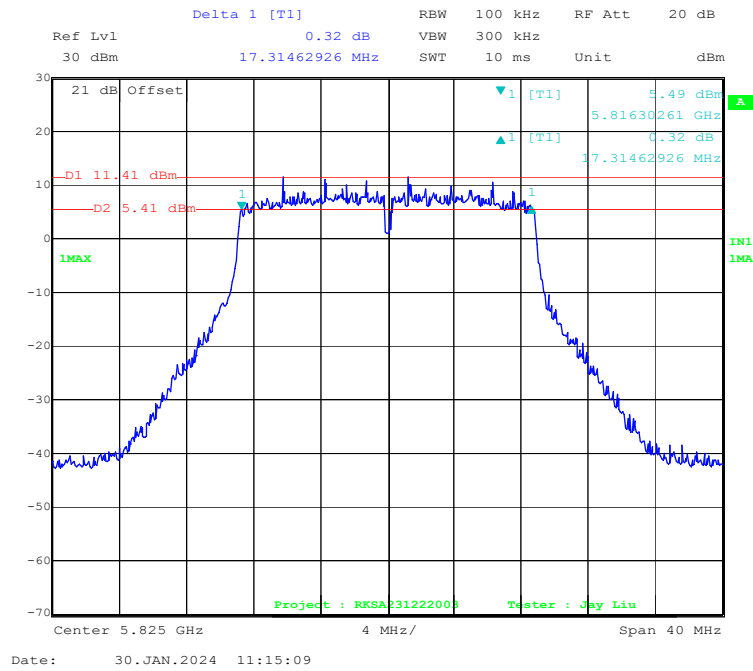
802.11n-HT20 mode, 5745MHz



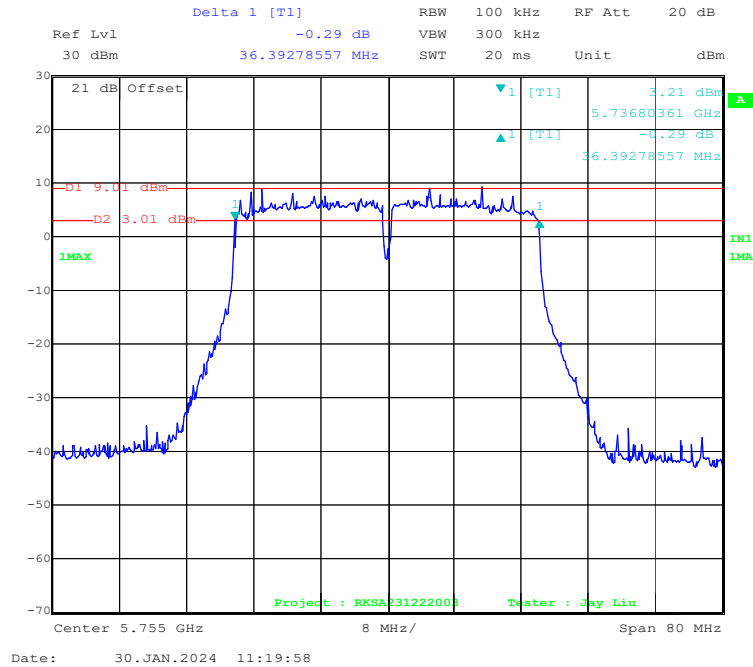
802.11n-HT20 mode, 5785MHz



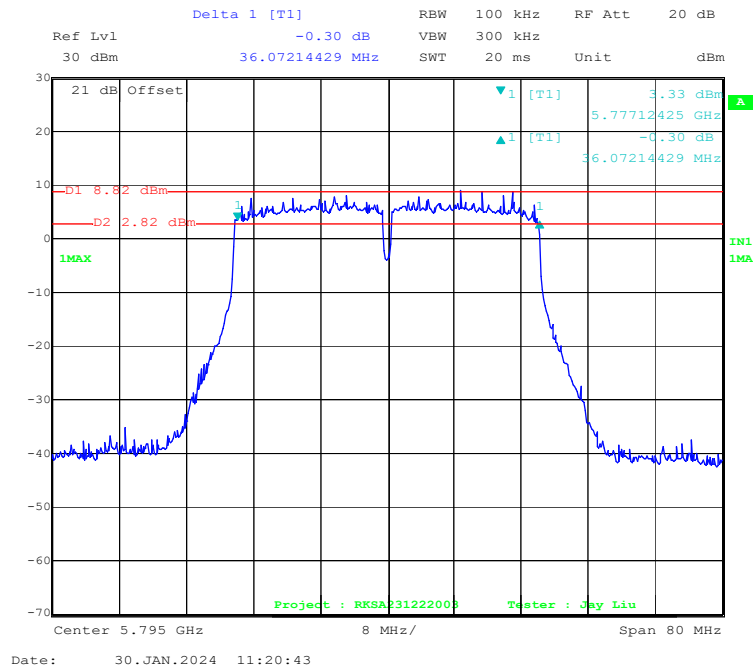
802.11n-HT20 mode, 5825MHz



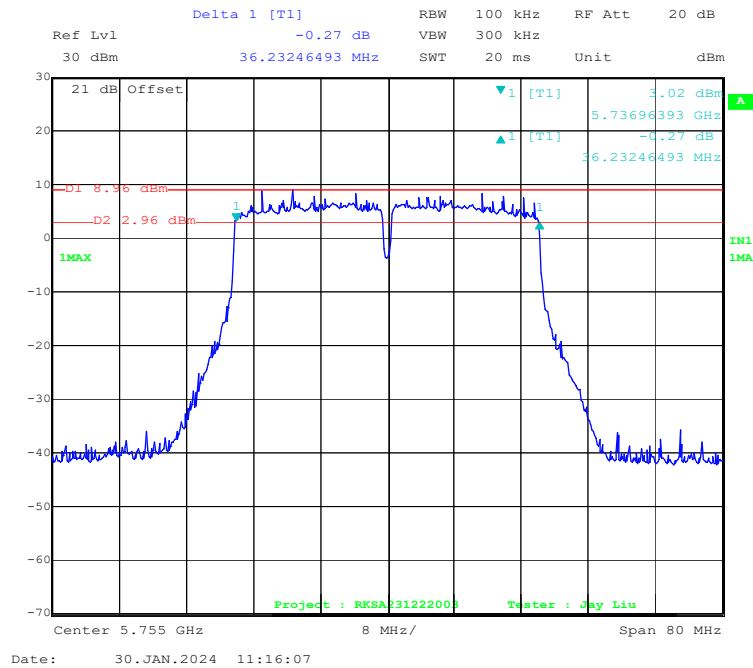
802.11ac40 mode, 5755MHz



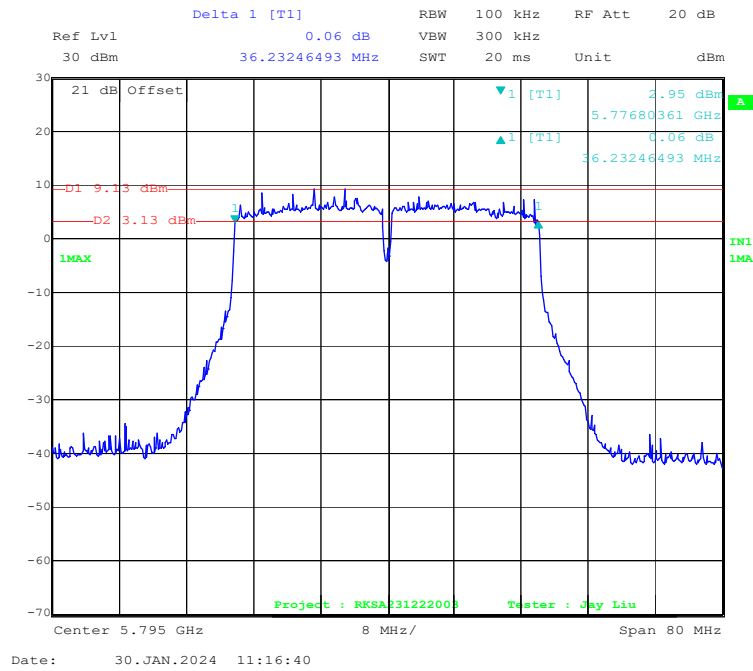
802.11ac40 mode, 5795MHz



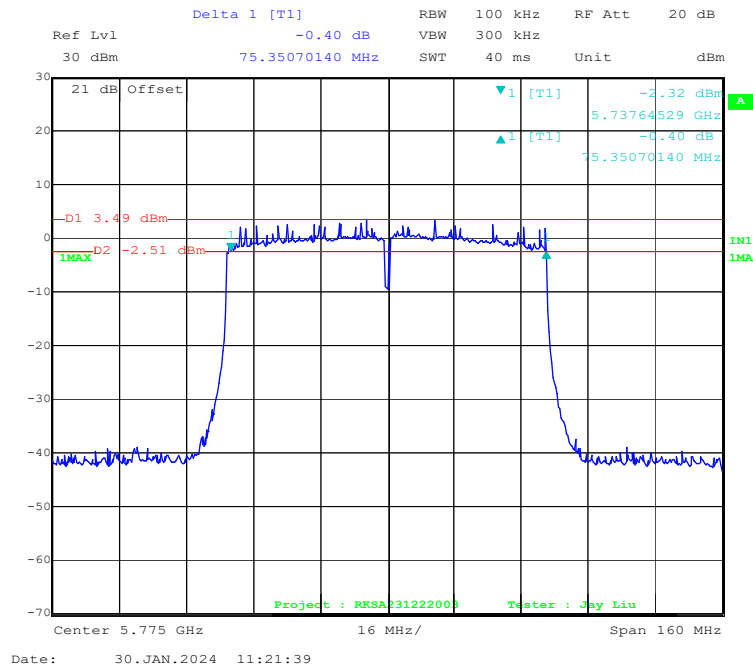
802.11n-HT40 mode, 5755MHz



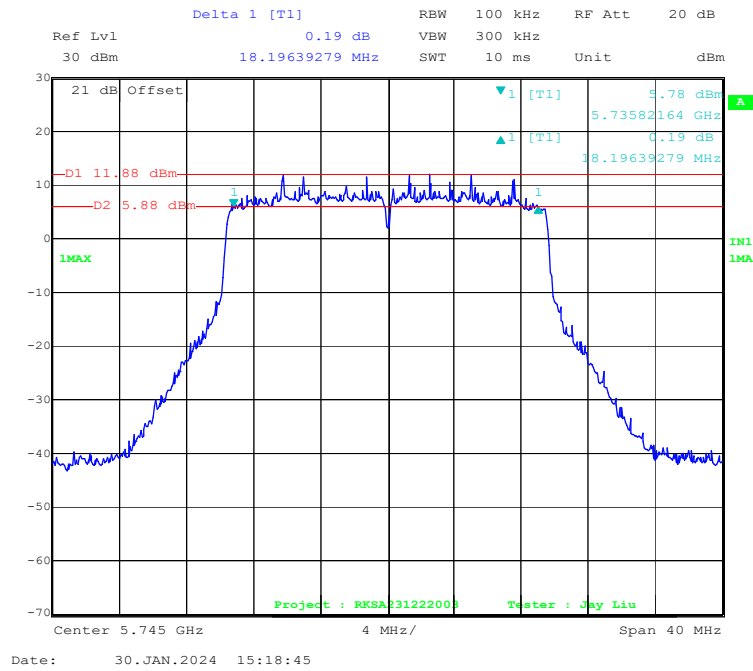
802.11n-HT40 mode, 5795MHz



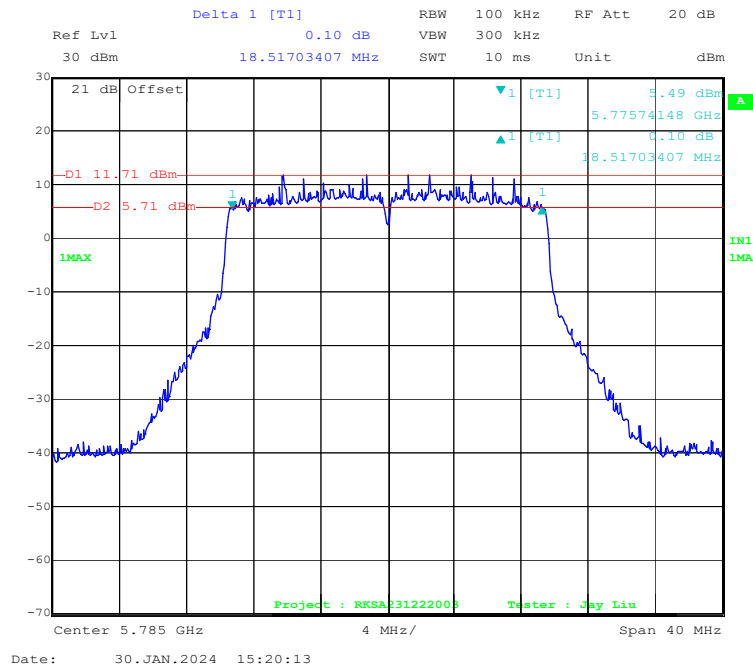
802.11ac80 mode, 5775MHz



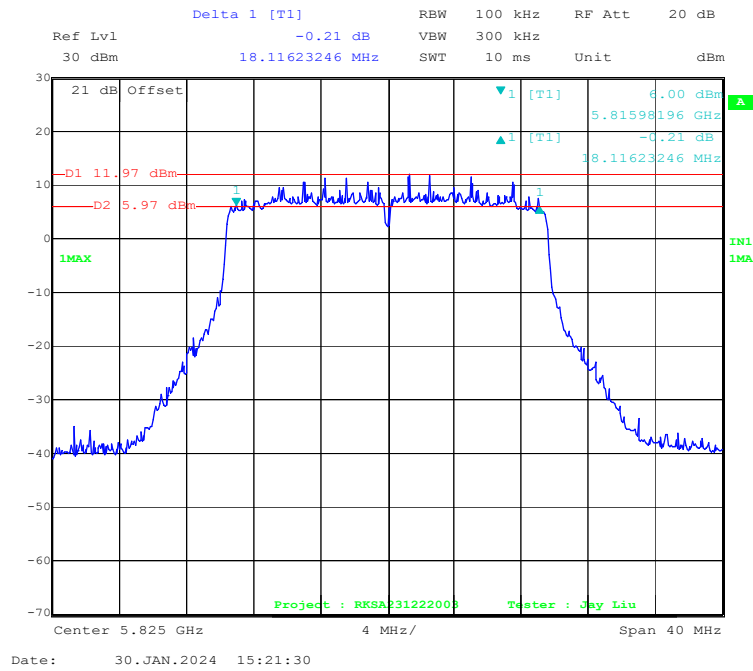
802.11ax20 mode, 5745MHz



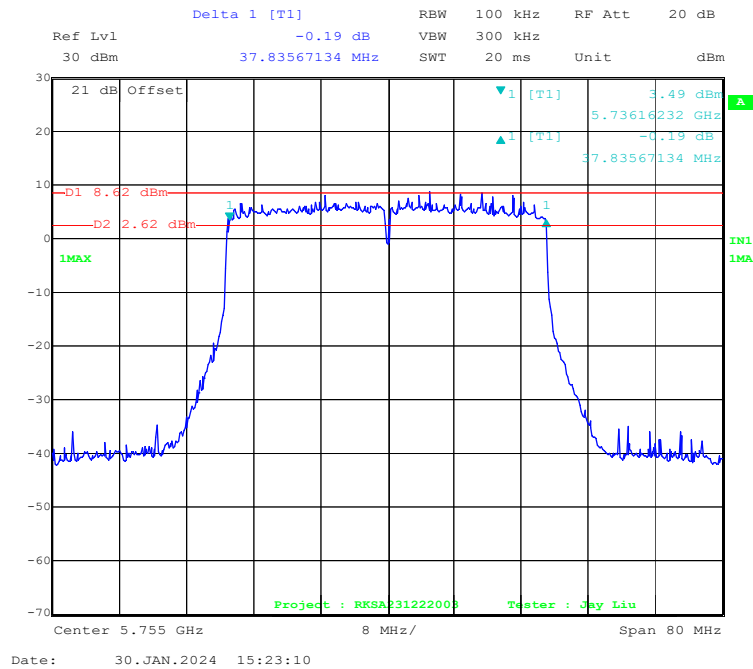
802.11ax20 mode, 5785MHz



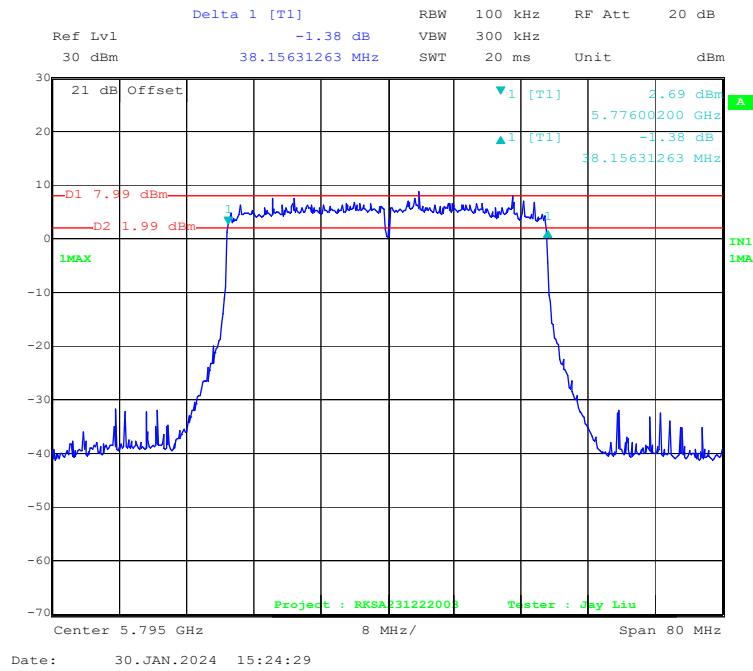
802.11ax20 mode, 5825MHz



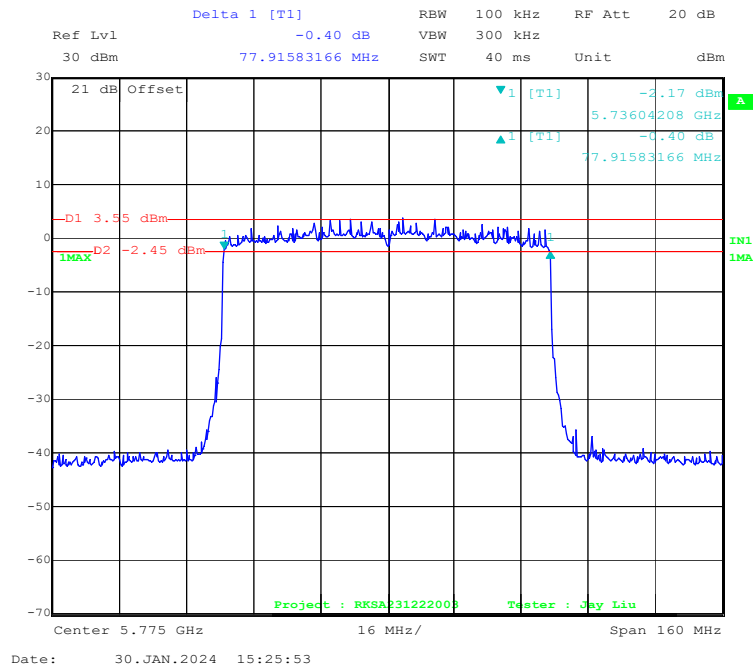
802.11ax40 mode, 5755MHz



802.11ax40 mode, 5795MHz

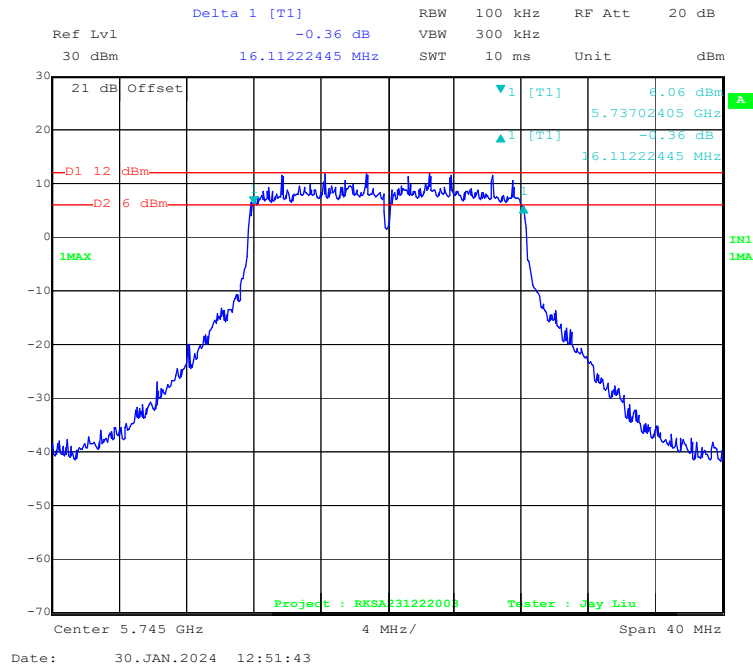


802.11ax80 mode, 5775MHz

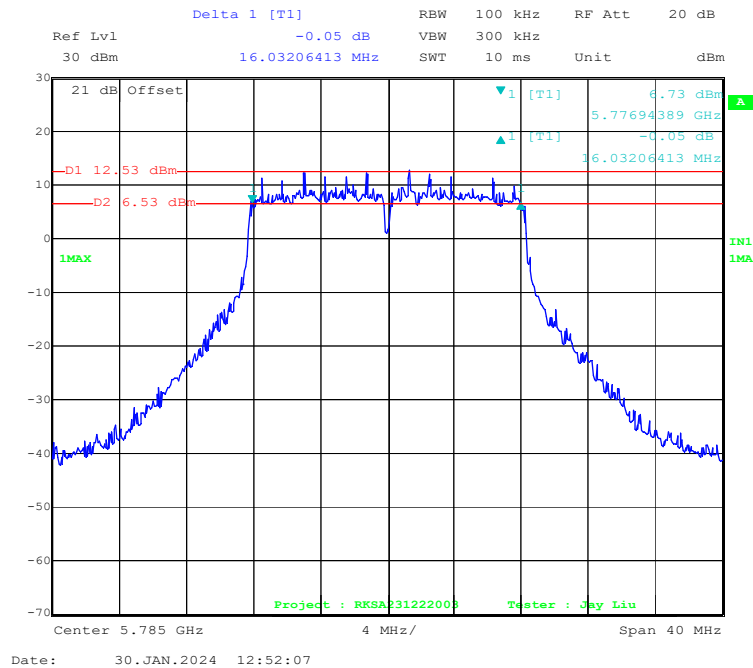


Chain 1:
6dB Bandwidth
5725-5850 MHz Band

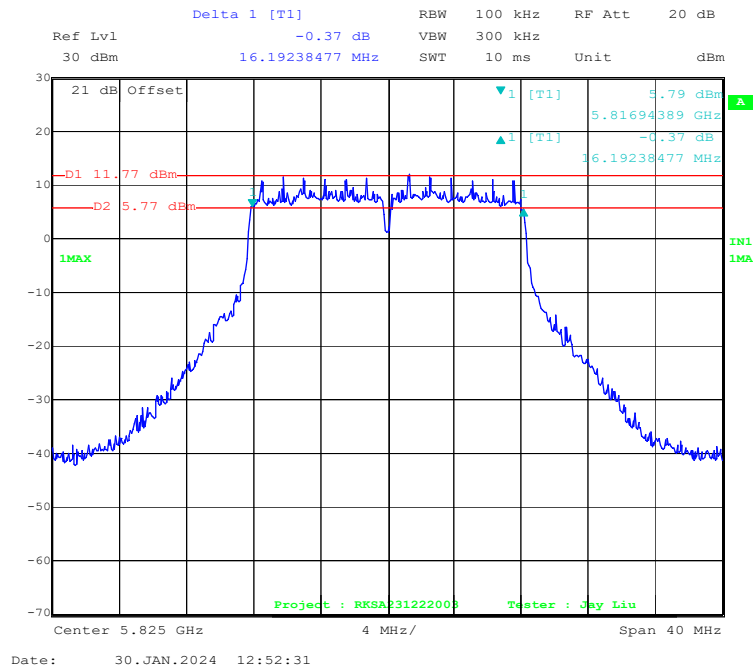
802.11a mode, 5745MHz



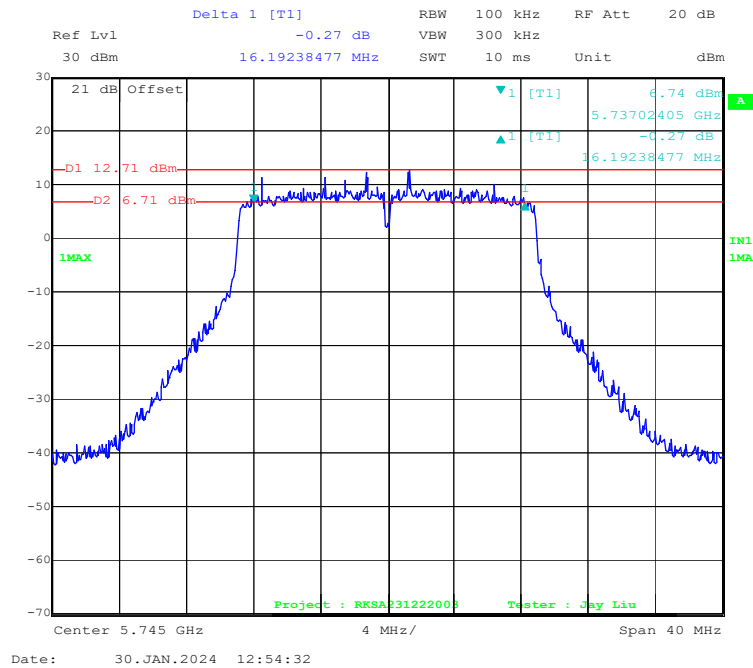
802.11a mode, 5785MHz



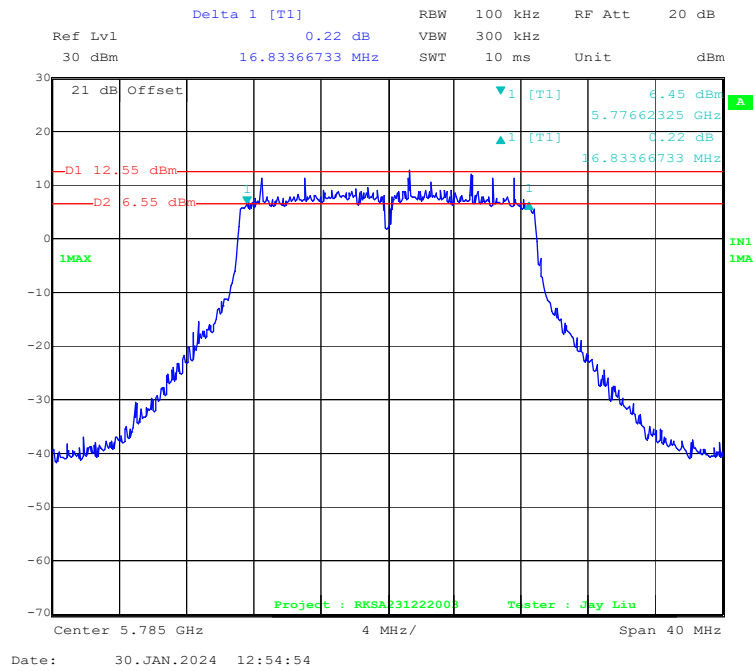
802.11a mode, 5825MHz



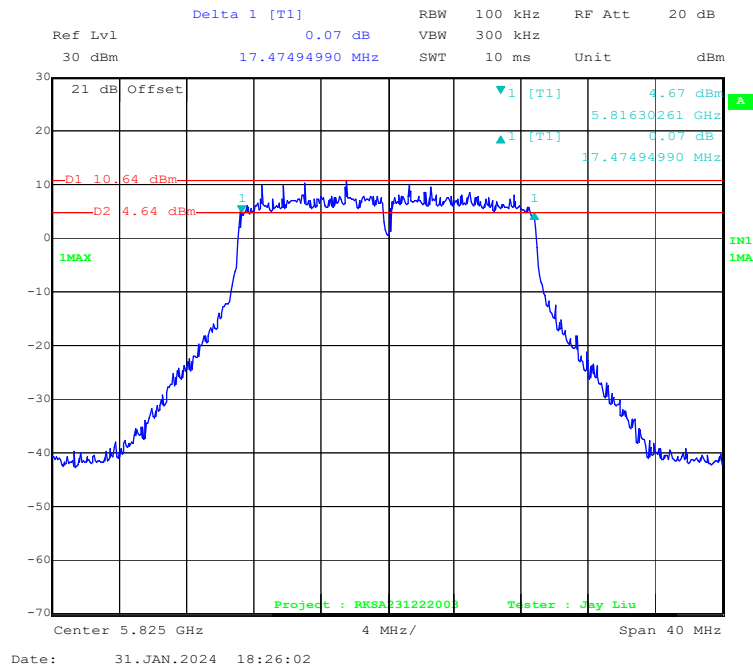
802.11ac20 mode, 5745MHz



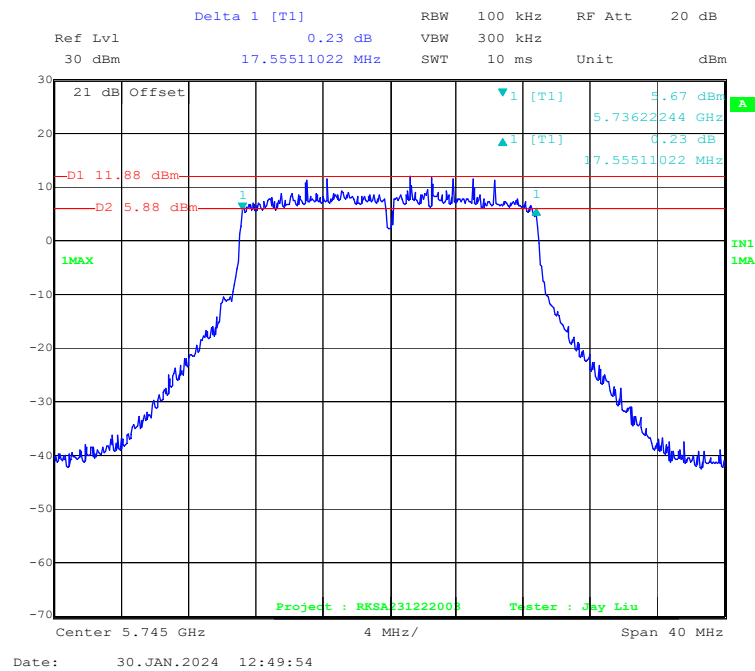
802.11ac20 mode, 5785MHz



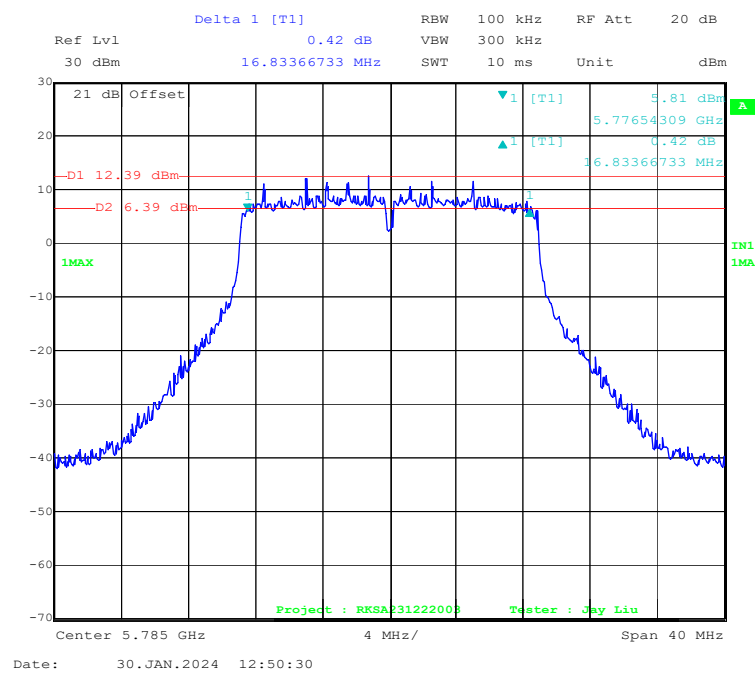
802.11ac20 mode, 5825MHz



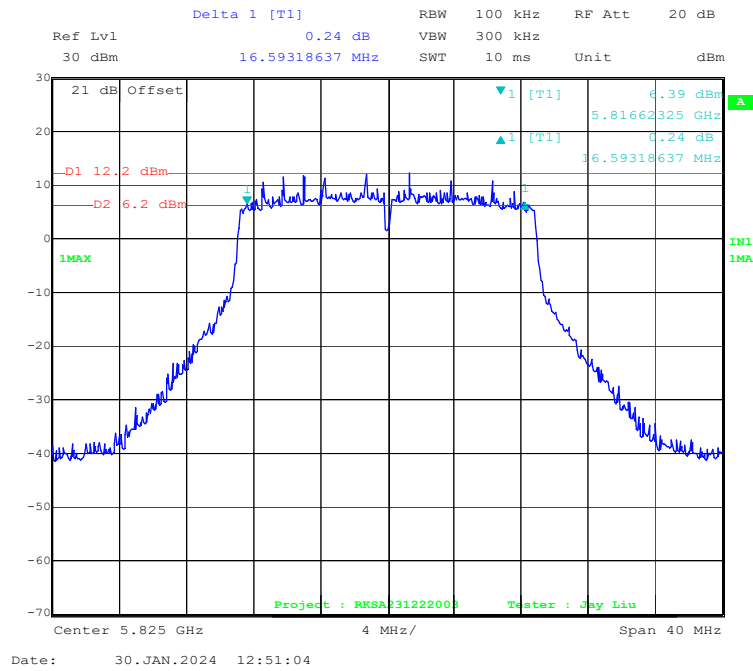
802.11n-HT20 mode, 5745MHz



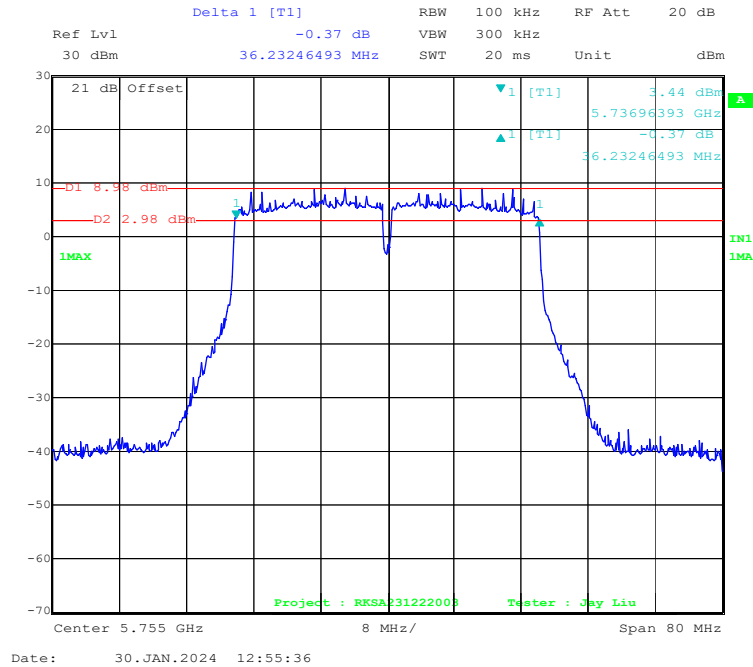
802.11n-HT20 mode, 5785MHz



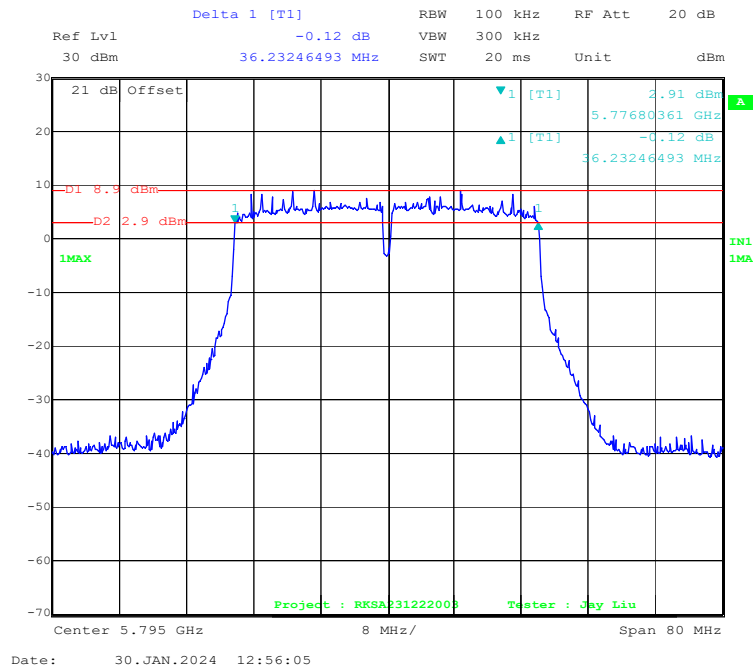
802.11n-HT20 mode, 5825MHz



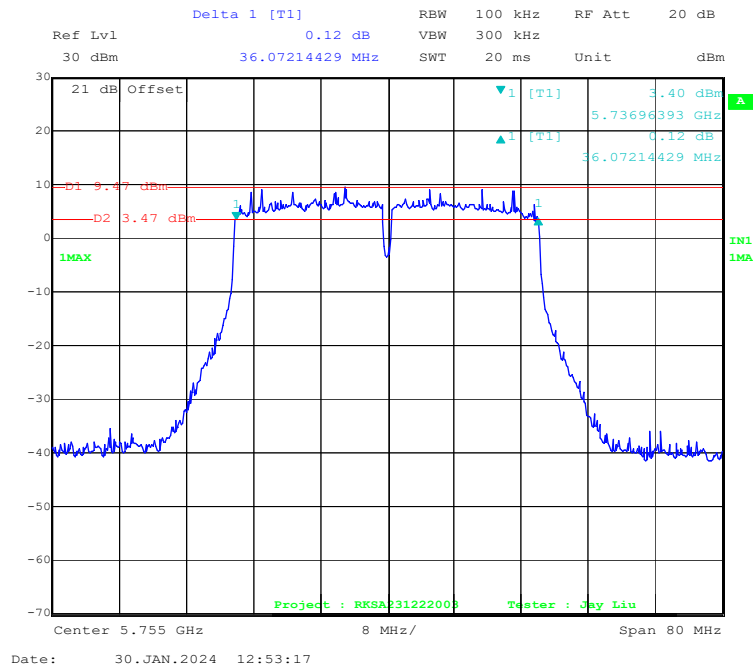
802.11ac40 mode, 5755MHz



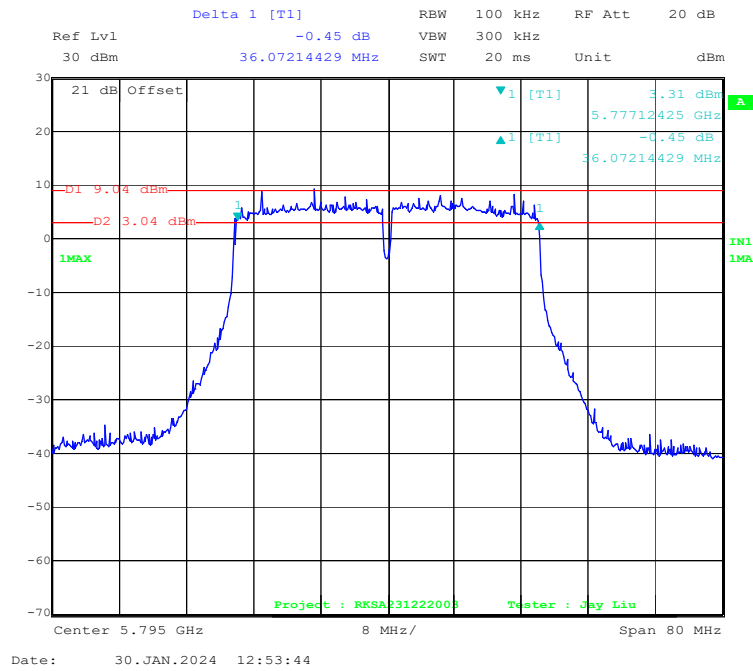
802.11ac40 mode, 5795MHz



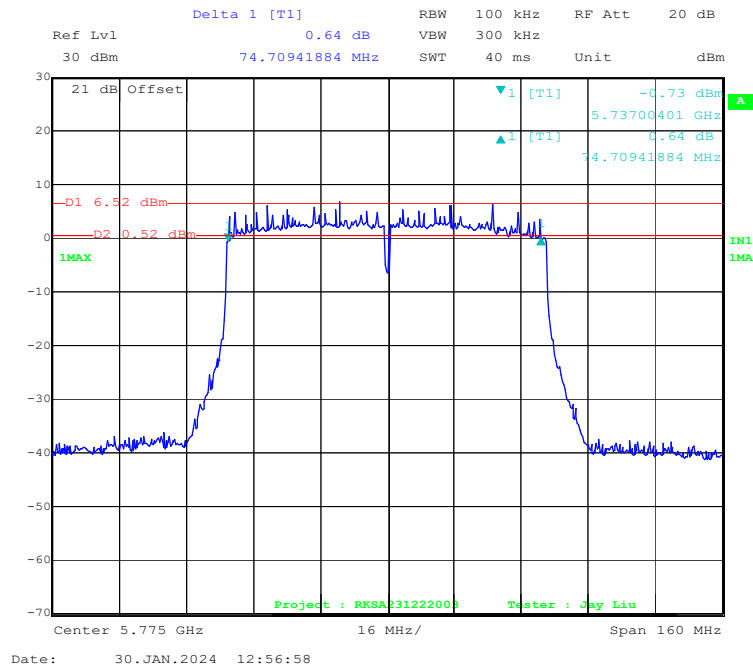
802.11n-HT40 mode, 5755MHz



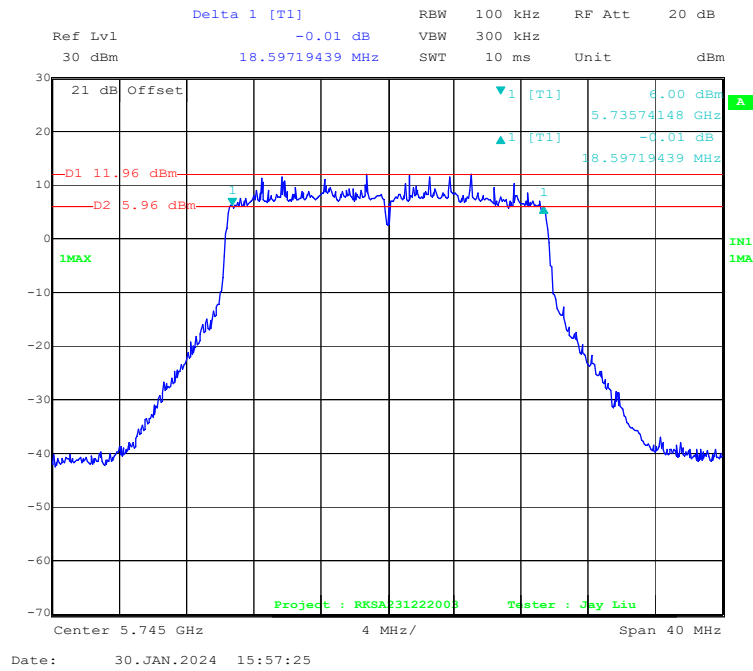
802.11n-HT40 mode, 5795MHz



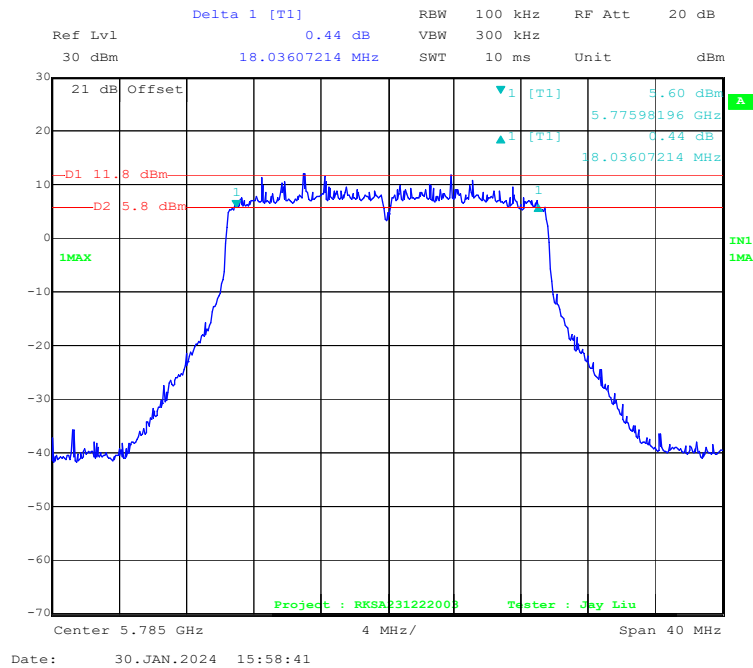
802.11ac80 mode, 5775MHz



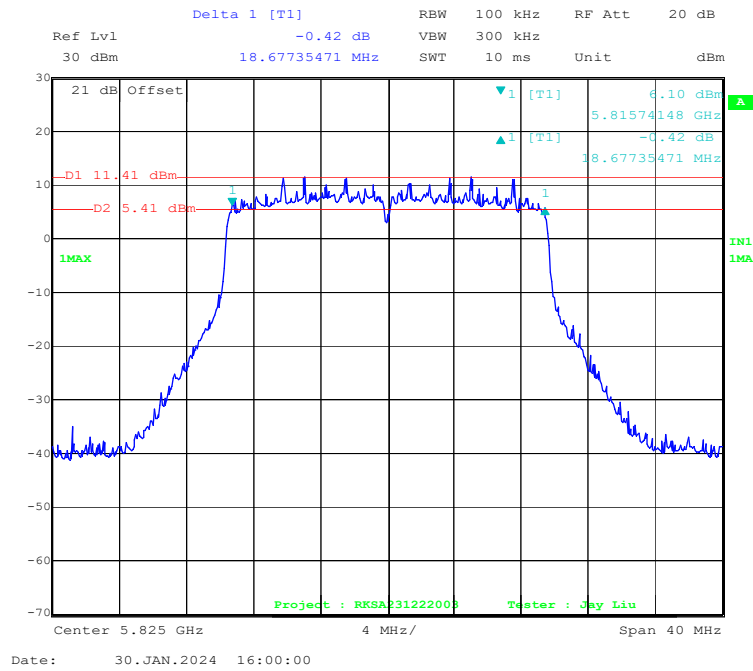
802.11ax20 mode, 5745MHz



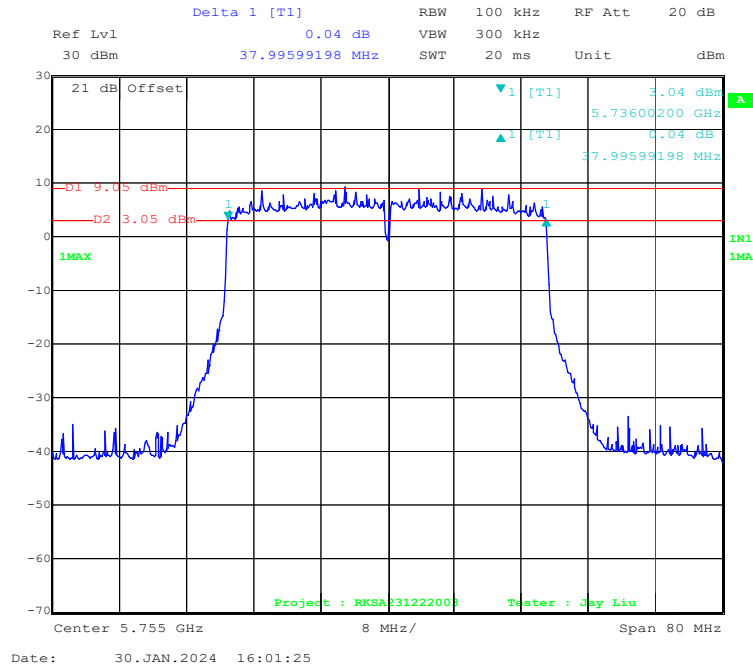
802.11ax20 mode, 5785MHz



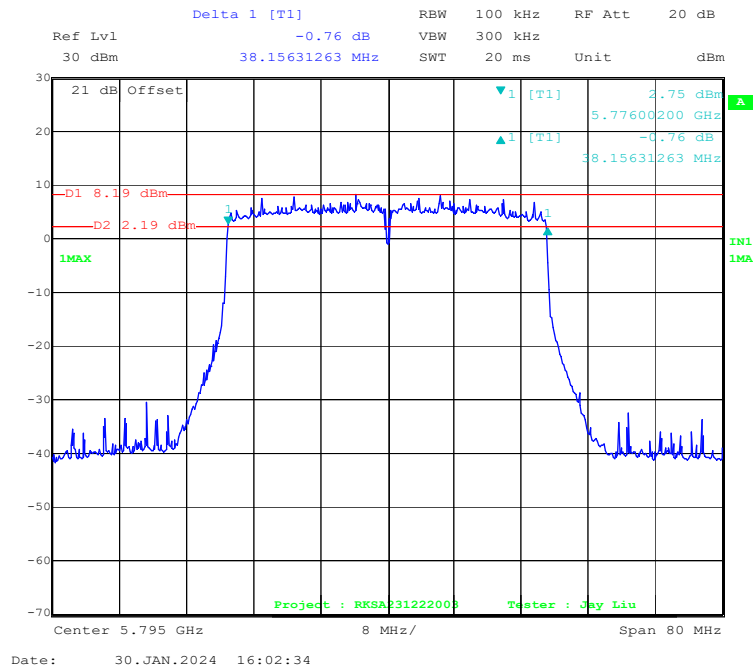
802.11ax20 mode, 5825MHz



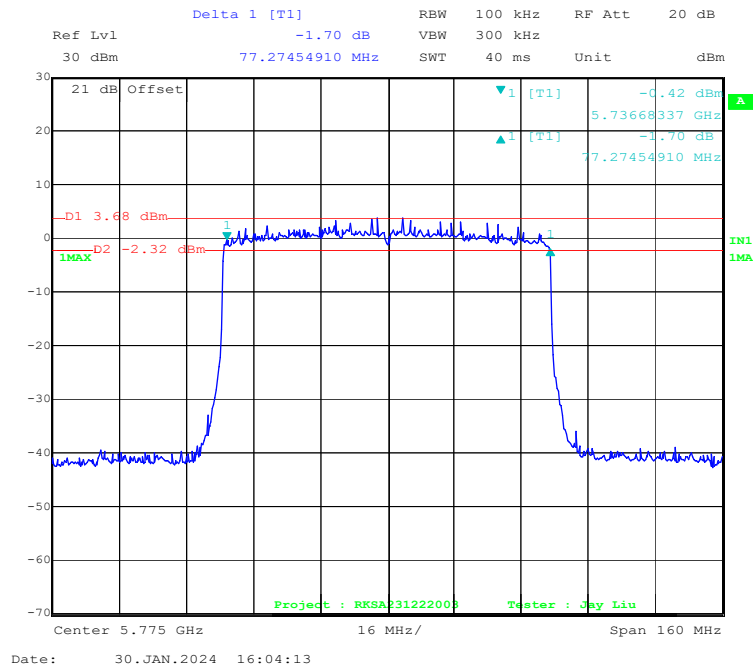
802.11ax40 mode, 5755MHz



802.11ax40 mode, 5795MHz



802.11ax80 mode, 5775MHz



FCC §15.407(a) (1) (3) – CONDUCTED TRANSMITTER OUTPUT POWER**Applicable Standard**

According to §15.407(a)(1)

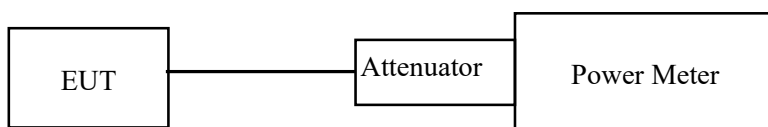
(ii) For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.407(a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data**Environmental Conditions & Test Information**

Temperature:	22.3 °C
Relative Humidity:	31 %
ATM Pressure:	102.5 kPa
Test Date:	2024-01-22
Test Engineer:	Jay Liu

Test Mode: Transmitting

Test Mode	Channel (MHz)	Maximum Conducted Output Power (dBm)			Limit[dBm]	Verdict
		Chain 0	Chain 1	Total		
802.11a	5180	14.01	14.35	/	≤25.90	PASS
	5200	14.02	14.39	/	≤25.90	PASS
	5240	16.82	16.78	/	≤25.90	PASS
	5745	21.17	21.35	/	≤25.40	PASS
	5785	21.37	21.39	/	≤25.40	PASS
	5825	21.03	21.05	/	≤25.40	PASS
802.11n-HT20	5180	13.55	13.45	16.51	≤25.90	PASS
	5200	13.59	13.51	16.56	≤25.90	PASS
	5240	15.41	15.35	18.39	≤25.90	PASS
	5745	20.75	20.86	23.82	≤25.40	PASS
	5785	20.81	20.87	23.85	≤25.40	PASS
	5825	20.52	20.55	23.55	≤25.40	PASS
802.11n-HT40	5190	8.71	8.49	11.61	≤25.90	PASS
	5230	17.35	17.29	20.33	≤25.90	PASS
	5755	21.72	21.87	24.81	≤25.40	PASS
	5795	21.7	21.76	24.74	≤25.40	PASS
802.11ac-VHT20	5180	13.55	13.45	16.51	≤25.90	PASS
	5200	13.61	13.52	16.58	≤25.90	PASS
	5240	15.43	15.33	18.39	≤25.90	PASS
	5745	20.72	20.92	23.83	≤25.40	PASS
	5785	20.81	20.85	23.84	≤25.40	PASS
	5825	20.57	20.54	23.57	≤25.40	PASS
802.11ac-VHT40	5190	8.83	8.53	11.69	≤25.90	PASS
	5230	17.37	17.27	20.33	≤25.90	PASS
	5755	21.71	21.86	24.80	≤25.40	PASS
	5795	21.68	21.74	24.72	≤25.40	PASS

Test Mode	Channel (MHz)	Maximum Conducted Output Power (dBm)			Limit[dBm]	Verdict
		Chain 0	Chain 1	Total		
802.11ac-VHT80	5210	7.31	6.77	10.06	≤25.90	PASS
	5775	19.03	19.14	22.10	≤25.40	PASS
802.11ax-HE20	5180	13.29	13.15	16.23	≤25.90	PASS
	5200	13.35	13.22	16.30	≤25.90	PASS
	5240	15.11	15.03	18.08	≤25.90	PASS
	5745	20.43	20.61	23.53	≤25.40	PASS
	5785	20.52	20.64	23.59	≤25.40	PASS
	5825	20.25	20.23	23.25	≤25.40	PASS
802.11ax-HE40	5190	8.73	8.54	11.65	≤25.90	PASS
	5230	16.85	16.72	19.80	≤25.90	PASS
	5755	21.15	21.31	24.24	≤25.40	PASS
	5795	21.11	21.23	24.18	≤25.40	PASS
802.11ax-HE80	5210	6.77	6.23	9.52	≤25.90	PASS
	5775	19.02	19.16	22.10	≤25.40	PASS

Note 1: The total output power= $10\log_{10}(10^{(\text{Chain 0}/10)}+10^{(\text{Chain 1}/10)})$

Note 2: The maximum antenna gain is 10.1 dBi for 5G Wi-Fi band 1, 10.6 dBi for 5G Wi-Fi band 4, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

So:

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 10.1 \text{ dBi}$ for 5G Wi-Fi band 1 $> 6 \text{ dBi}$, the limit was reduced 4.1 dB

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 10.6 \text{ dBi}$ for 5G Wi-Fi band 4 $> 6 \text{ dBi}$, the limit was reduced 4.6 dB

Note 3: The device used indoor.

FCC §15.407(a) (1) (3) - POWER SPECTRAL DENSITY**Applicable Standard**

According to §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.407(a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

The measurements are base on FCC KDB 789033 D02 General UNII Test Proceidyres New Rules v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices section F: Maximum power spectral density (PPSD) and method SA-1

Test Data**Environmental Conditions & Test Information**

Temperature:	23.8-23.9 °C
Relative Humidity:	45-46 %
ATM Pressure:	102.8-102.9 kPa
Test Date:	2024-01-30 to 2024-02-06
Test Engineer:	Jay Liu

Test Mode: Transmitting

Test Mode	Channel (MHz)	Maximum Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Verdict
		Chain 0	Chain 1	Total		
802.11a	5180	6.22	6.50	/	≤12.90	PASS
	5200	6.05	6.45	/	≤12.90	PASS
	5240	8.66	8.76	/	≤12.90	PASS
802.11n-HT20	5180	6.06	5.85	8.97	≤9.90	PASS
	5200	5.89	5.26	8.60	≤9.90	PASS
	5240	6.60	6.92	9.77	≤9.90	PASS
802.11n-HT40	5190	-2.20	-1.45	1.20	≤9.90	PASS
	5230	6.53	6.41	9.48	≤9.90	PASS
802.11ac-VHT20	5180	5.87	5.66	8.78	≤9.90	PASS
	5200	5.92	5.55	8.75	≤9.90	PASS
	5240	6.64	6.83	9.75	≤9.90	PASS
802.11ac-VHT40	5190	-2.18	-2.35	0.75	≤9.90	PASS
	5230	6.58	5.96	9.29	≤9.90	PASS
802.11ac-VHT80	5210	-6.88	-7.97	-4.38	≤9.90	PASS
802.11ax-HE20	5180	6.07	5.66	8.88	≤9.90	PASS
	5200	5.95	5.55	8.76	≤9.90	PASS
	5240	6.58	7.01	9.81	≤9.90	PASS
802.11ax-HE40	5190	-2.22	-2.35	0.73	≤9.90	PASS
	5230	5.80	5.96	8.89	≤9.90	PASS
802.11ax-HE80	5210	-7.38	-7.97	-4.65	≤9.90	PASS

Test Mode	Channel (MHz)	Maximum Power Spectral Density (dBm/500kHz)			Limit (dBm/500kHz)	Verdict
		Chain 0	Chain 1	Total		
802.11a	5745	13.87	14.20	/	≤25.40	PASS
	5785	13.91	13.74	/	≤25.40	PASS
	5825	13.24	12.73	/	≤25.40	PASS
802.11n-HT20	5745	13.59	13.43	16.52	≤22.40	PASS
	5785	13.07	13.15	16.12	≤22.40	PASS
	5825	13.88	13.32	16.62	≤22.40	PASS
802.11n-HT40	5755	10.11	10.13	13.13	≤22.40	PASS
	5795	10.75	9.90	13.36	≤22.40	PASS
802.11ac-VHT20	5745	13.26	13.88	16.59	≤22.40	PASS
	5785	13.87	13.07	16.50	≤22.40	PASS
	5825	13.73	13.33	16.54	≤22.40	PASS
802.11ac-VHT40	5755	9.33	9.67	12.51	≤22.40	PASS
	5795	10.42	9.46	12.98	≤22.40	PASS
802.11ac-VHT80	5775	5.71	5.98	8.86	≤22.40	PASS
802.11ax-HE20	5745	13.62	13.53	16.59	≤22.40	PASS
	5785	13.27	13.70	16.50	≤22.40	PASS
	5825	13.06	13.52	16.31	≤22.40	PASS
802.11ax-HE40	5755	10.14	9.91	13.04	≤22.40	PASS
	5795	10.31	9.96	13.15	≤22.40	PASS
802.11ax-HE80	5775	4.98	5.33	8.17	≤22.40	PASS

Note1: The total PSD= $10\log_{10}(10^{Chain\ 0/10}+10^{Chain\ 1/10})$

Note2: For Band 4, The RBW = 300kHz, add the offset $10\lg(500\text{kHz}/300\text{kHz})=2.22$ for the RBW=500kHz

Note3: The maximum antenna gain is 10.1 dBi for 5G Wi-Fi band 1, 10.6 dBi for 5G Wi-Fi band 4. The device employed Cyclic Delay Diversity (CDD) for 802.11MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10\log(N_{ANT}/N_{SS})$ dB.

So:

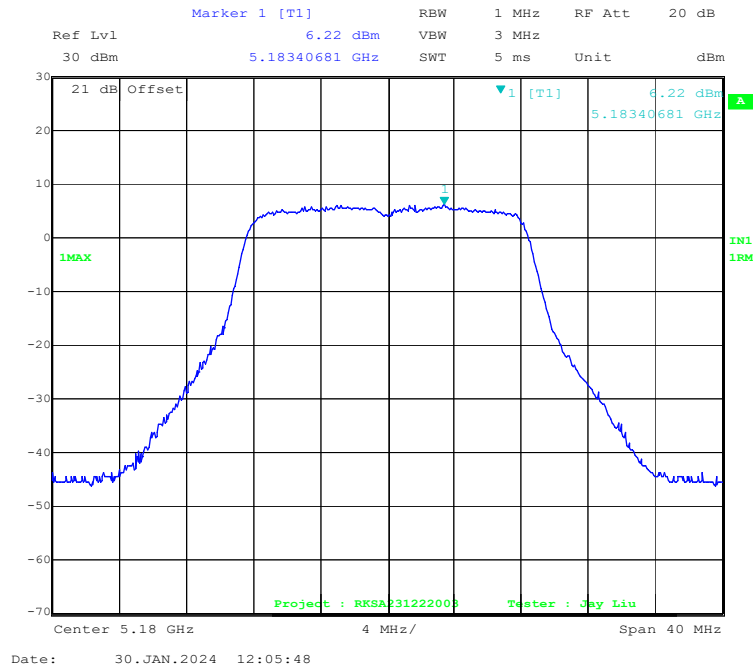
Directional gain = $G_{ANT} + \text{Array Gain} = 10.1 + 10 \cdot \log(2/1) = 13.1$ dBi for 5G Wi-Fi band 1 > 6dBi, power spectral density limit was reduced 7.1dB

Directional gain = $G_{ANT} + \text{Array Gain} = 10.6 + 10 \cdot \log(2/1) = 13.6$ dBi for 5G Wi-Fi band 4 > 6dBi, power spectral density limit was reduced 7.6dB

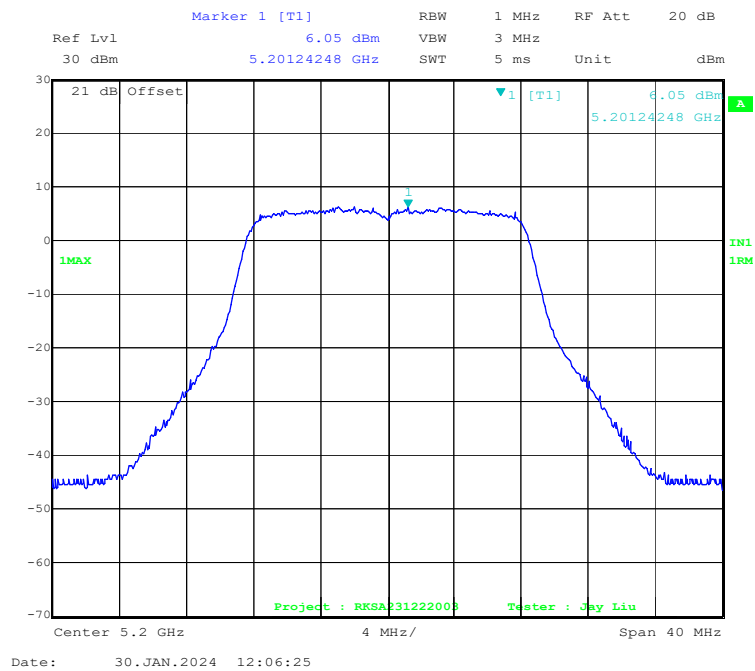
Chain 0:

5150MHz-5250MHz Band:

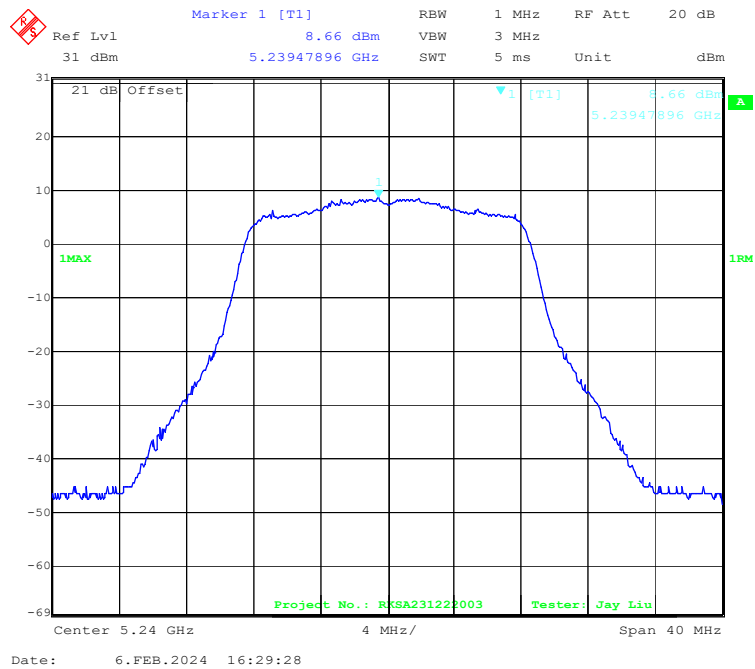
802.11a mode, Power spectral density-5180MHz



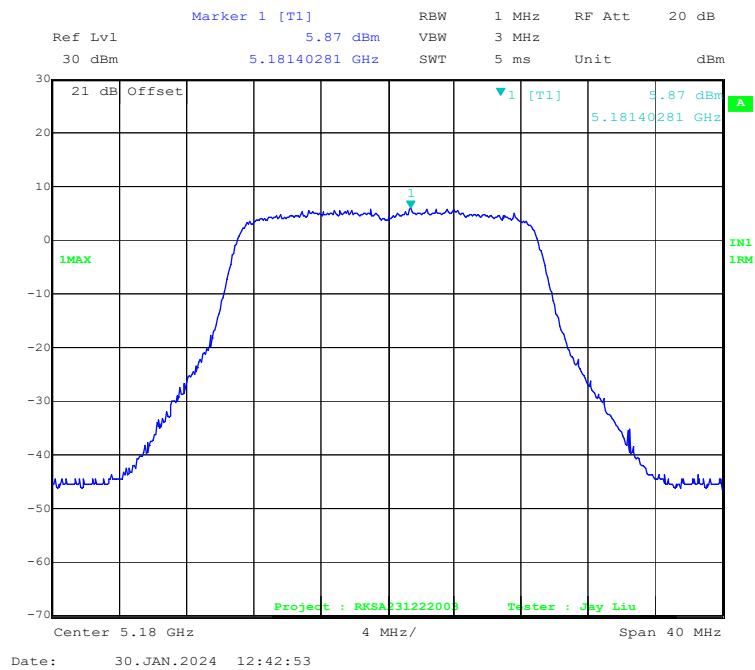
802.11a mode, Power spectral density-5200MHz



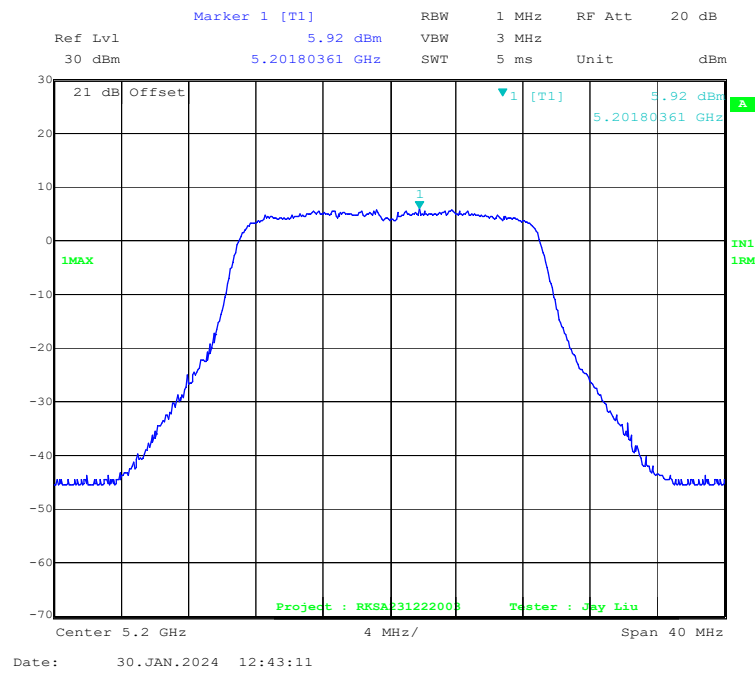
802.11a mode, Power spectral density-5240MHz



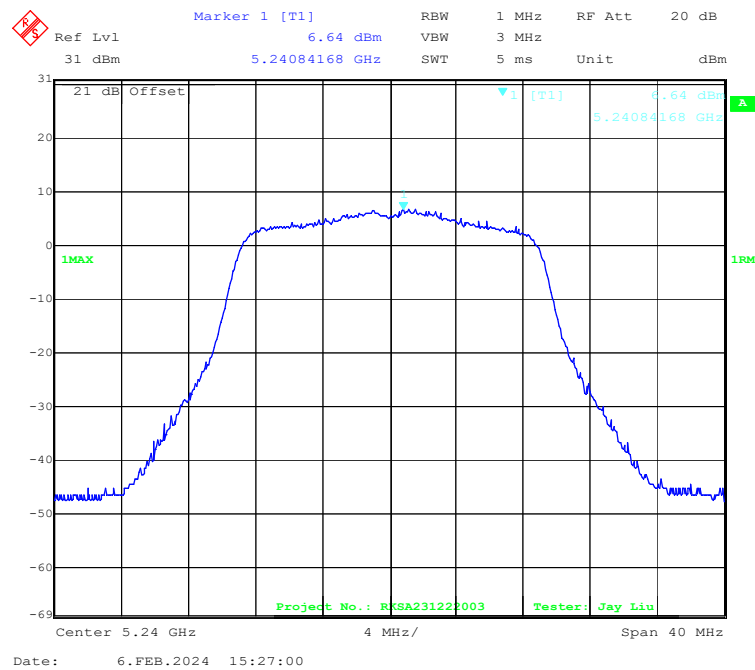
802.11ac20 mode, Power spectral density-5180MHz



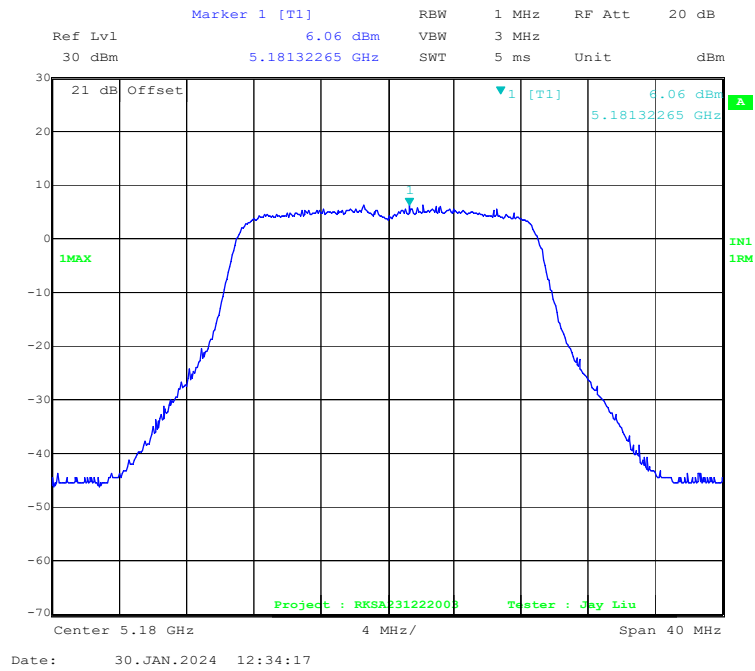
802.11ac20 mode, Power spectral density-5200MHz



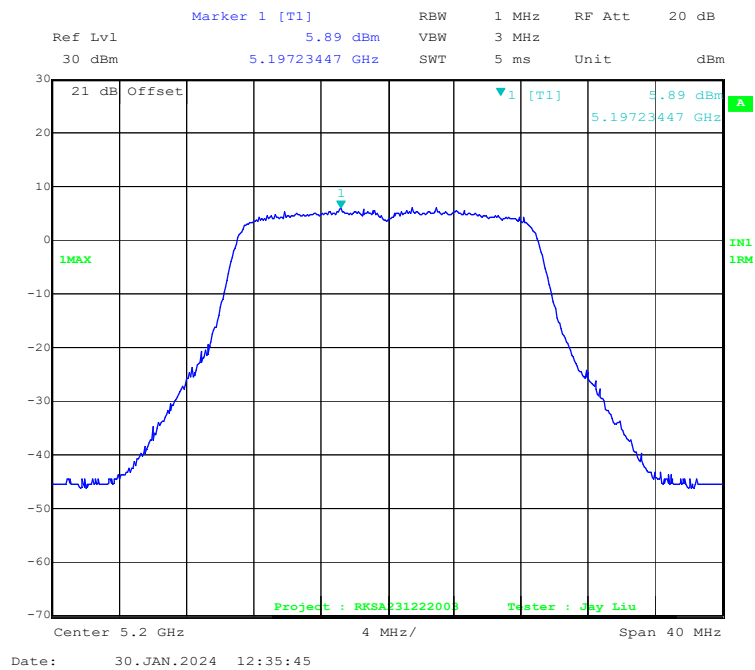
802.11ac20 mode, Power spectral density-5240MHz



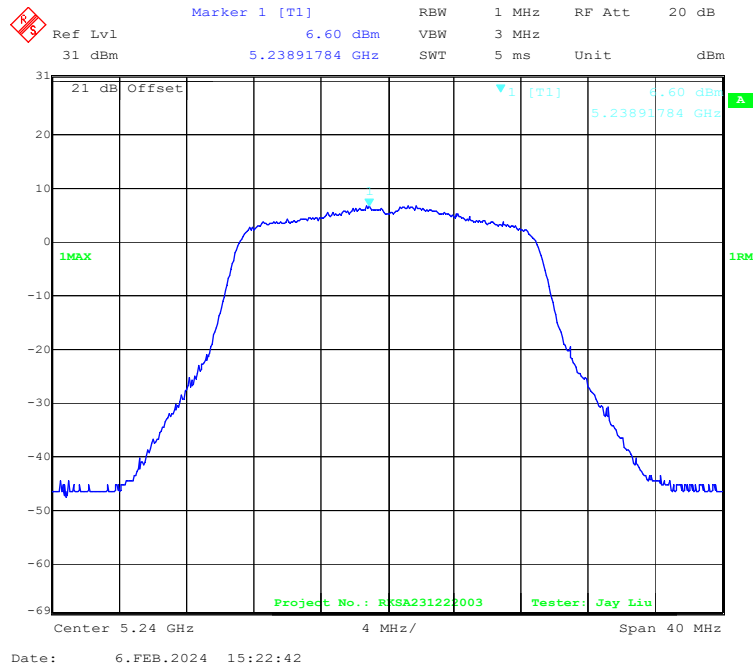
802.11n-HT20 mode, Power spectral density-5180MHz



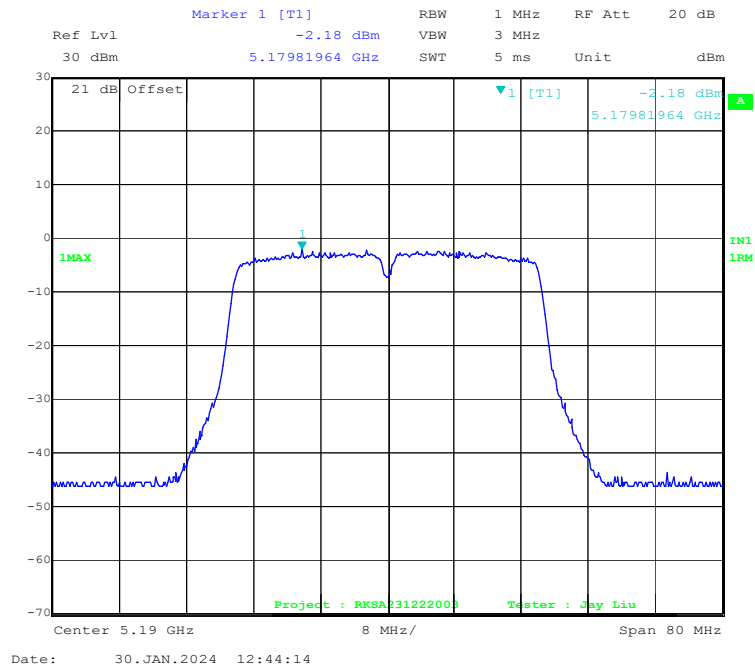
802.11n-HT20 mode, Power spectral density-5200MHz



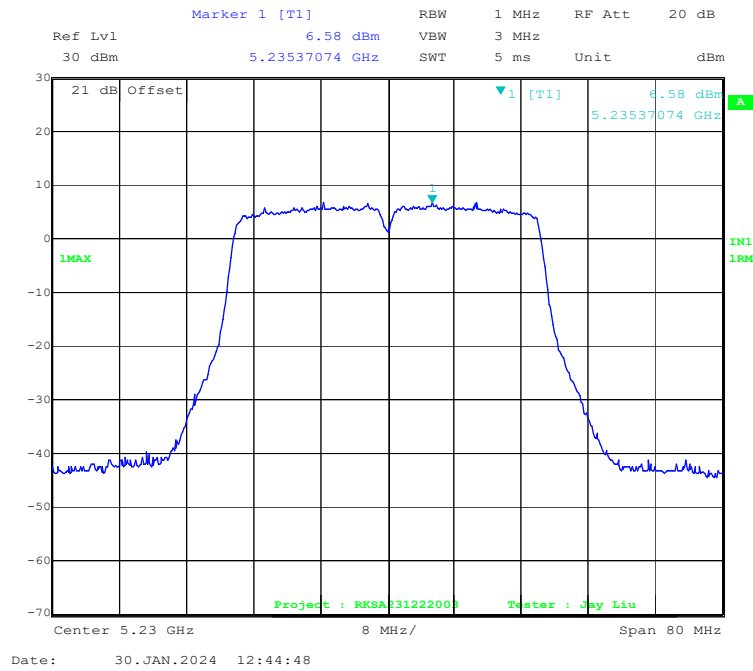
802.11n-HT20 mode, Power spectral density-5240MHz



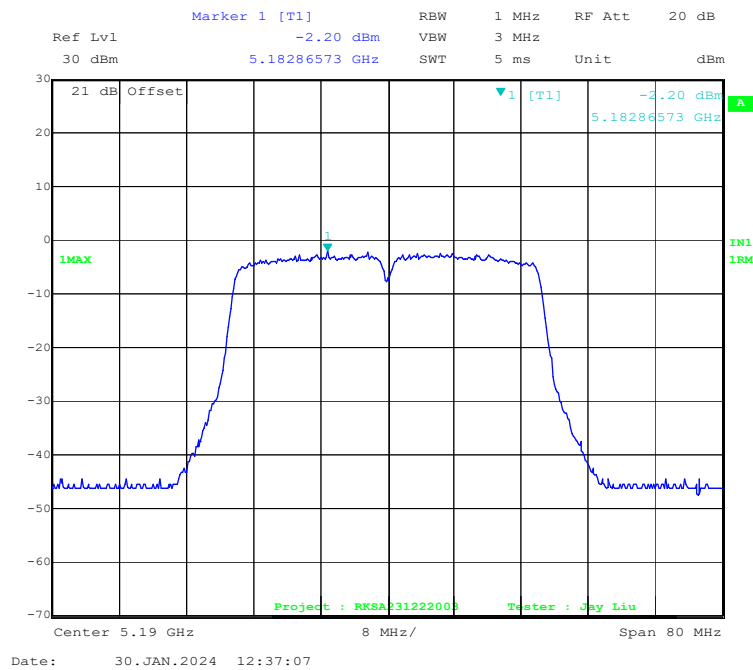
802.11ac40 mode, Power spectral density-5190MHz



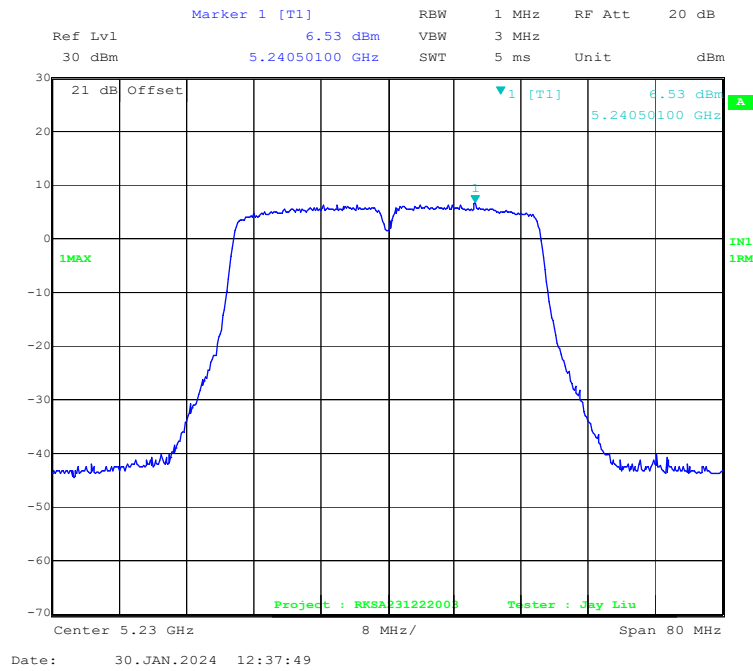
802.11ac40 mode, Power spectral density-5230MHz



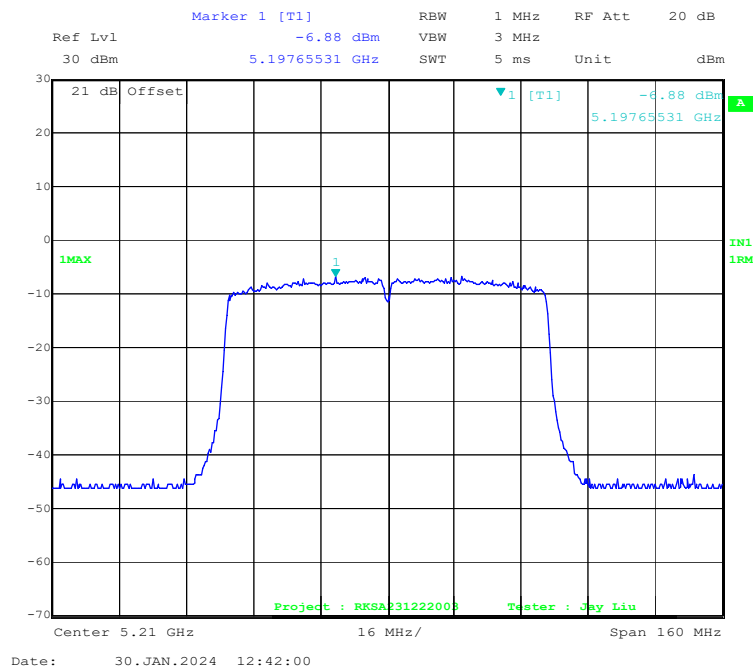
802.11n-HT40 mode, Power spectral density-5190MHz



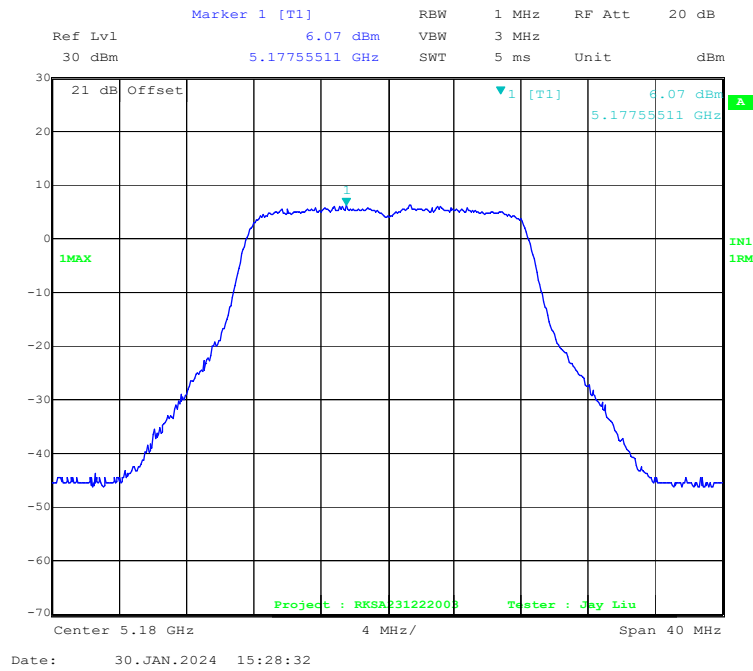
802.11n-HT40 mode, Power spectral density-5230MHz



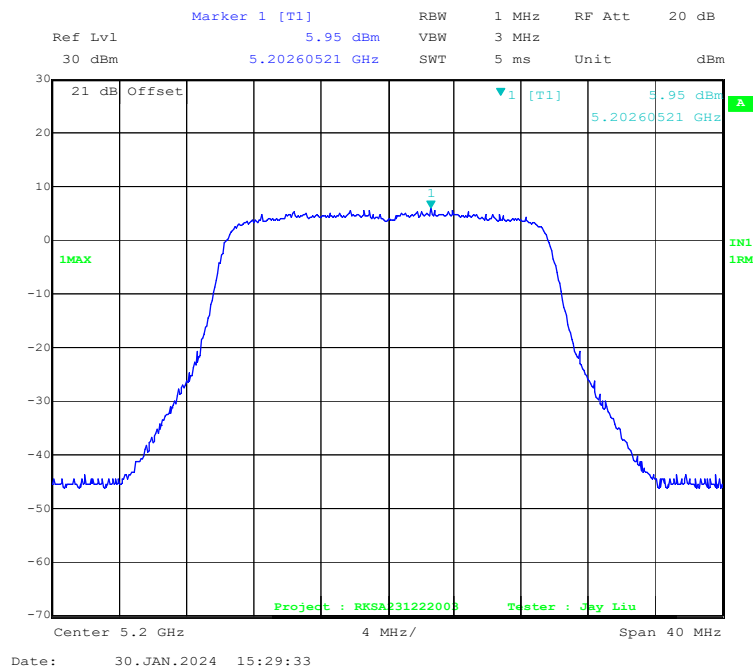
802.11ac80 mode, Power spectral density-5210MHz



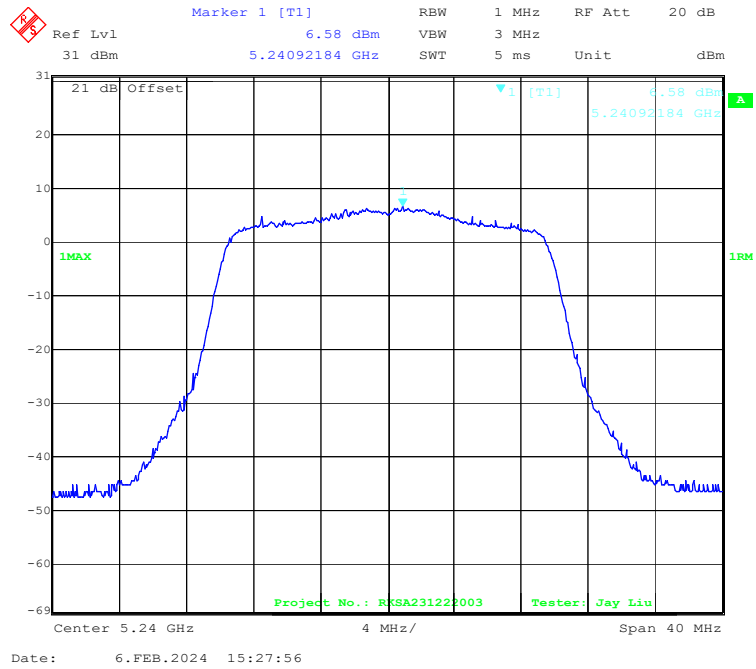
802.11ax-HE20 mode, Power spectral density-5180MHz



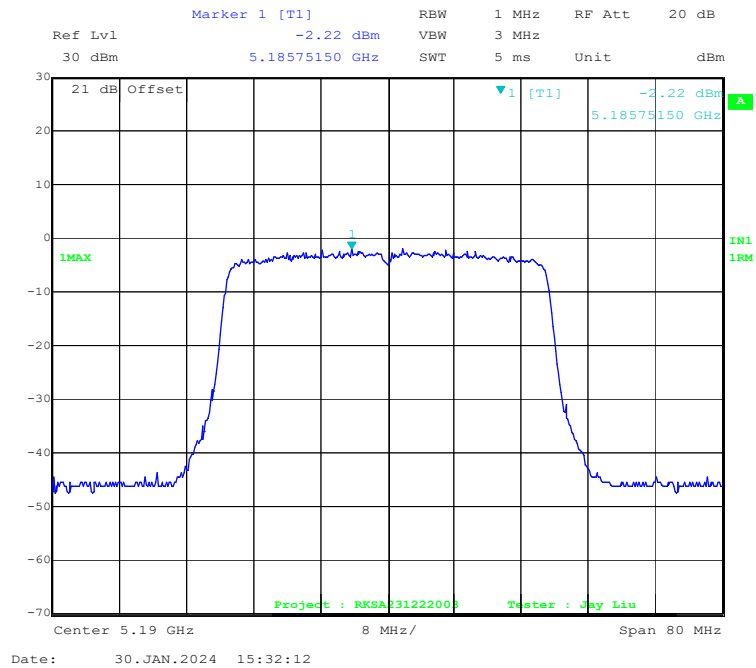
802.11ax-HE20 mode, Power spectral density-5200MHz



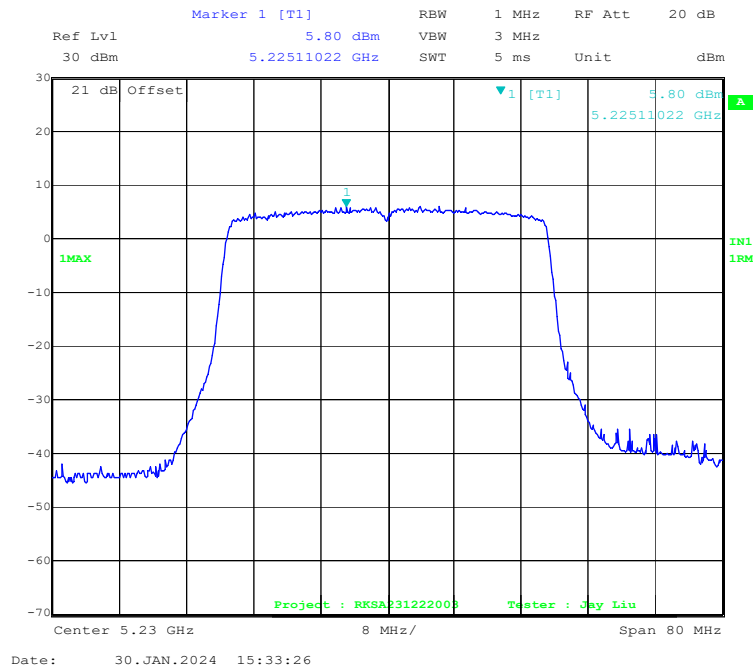
802.11ax-HE20 mode, Power spectral density-5240MHz



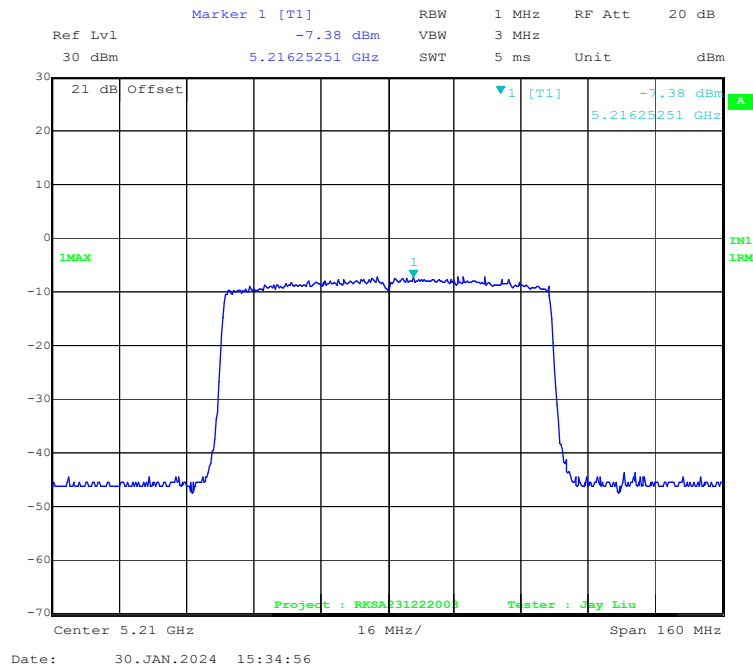
802.11ax-HE40 mode, Power spectral density-5190MHz



802.11ax-HE40 mode, Power spectral density-5230MHz

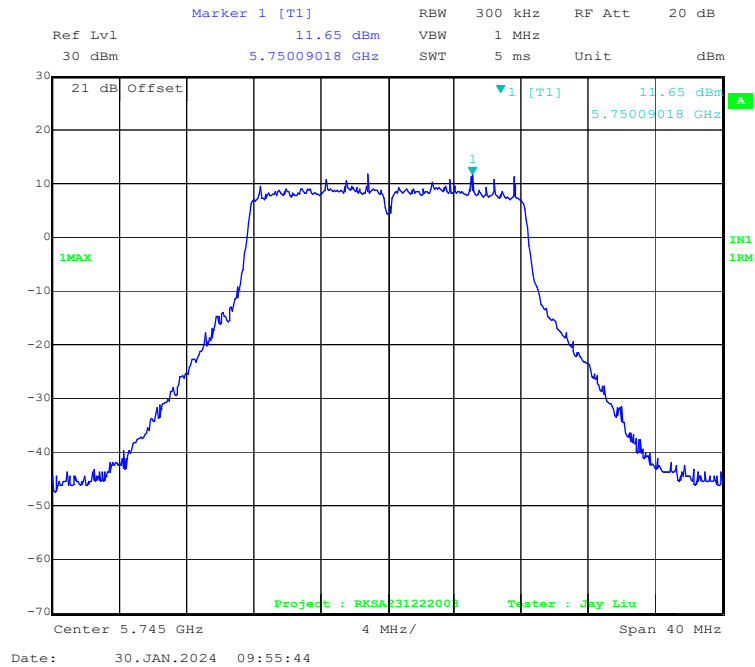


802.11ax-HE80 mode, Power spectral density-5210MHz

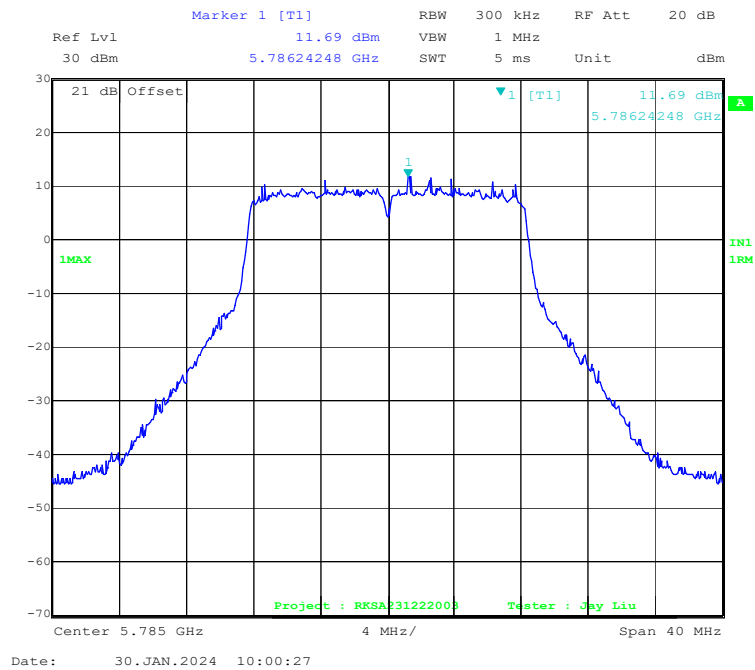


5725MHz-5850 MHz Band:

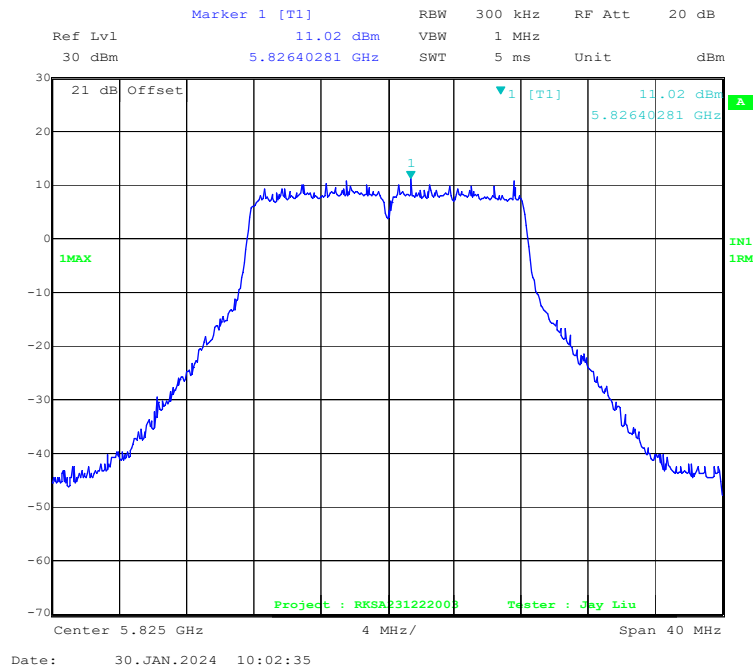
802.11a mode, Power spectral density-5745MHz



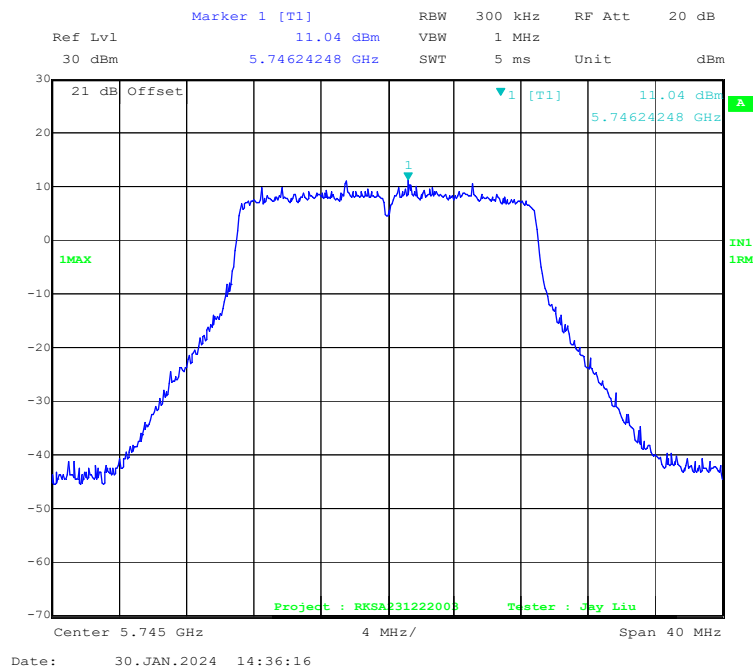
802.11a mode, Power spectral density-5785MHz



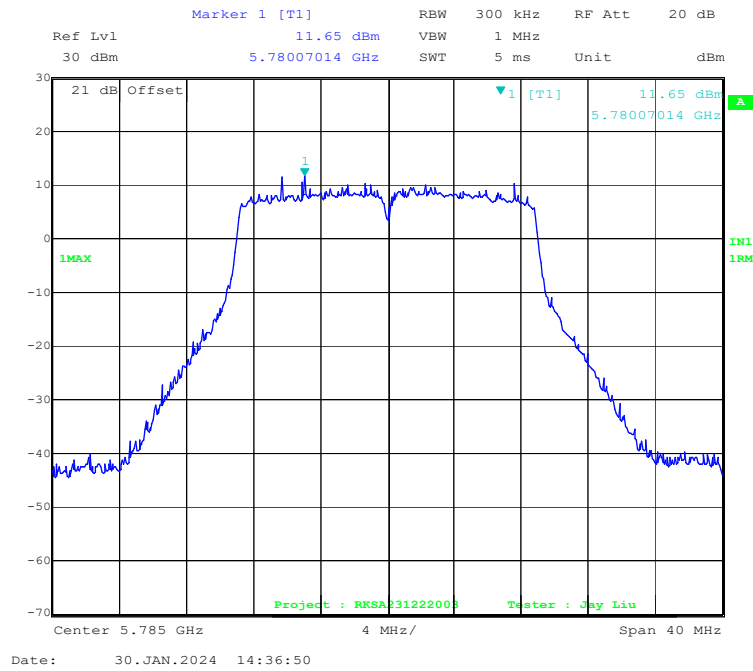
802.11a mode, Power spectral density-5825MHz



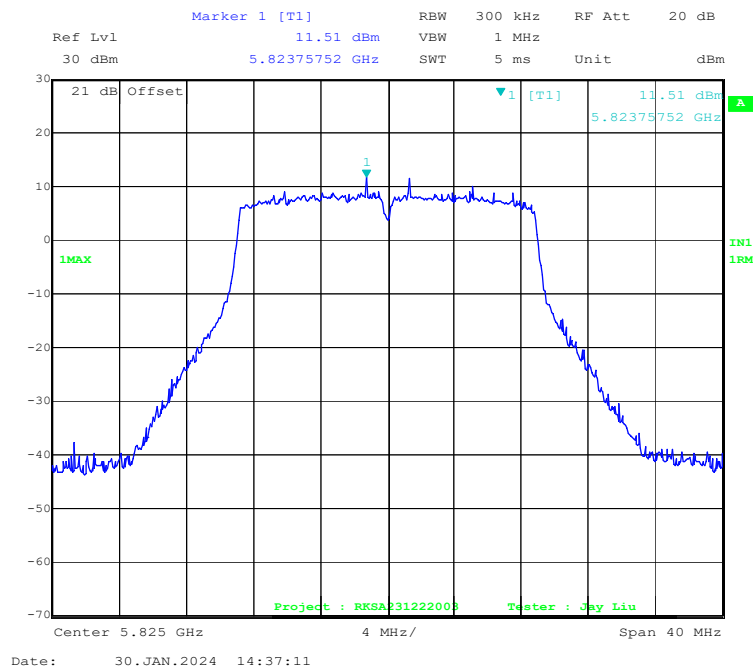
802.11ac20 mode, Power spectral density-5745MHz



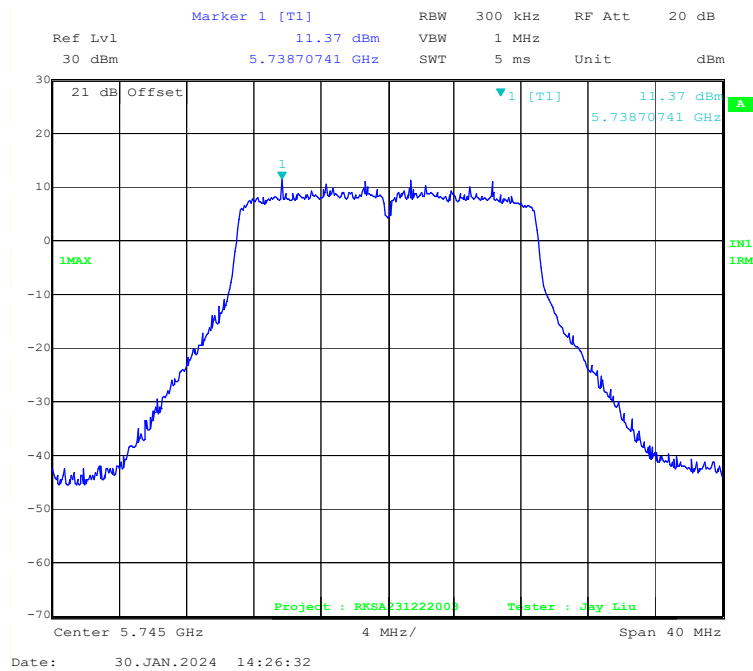
802.11ac20 mode, Power spectral density-5785MHz



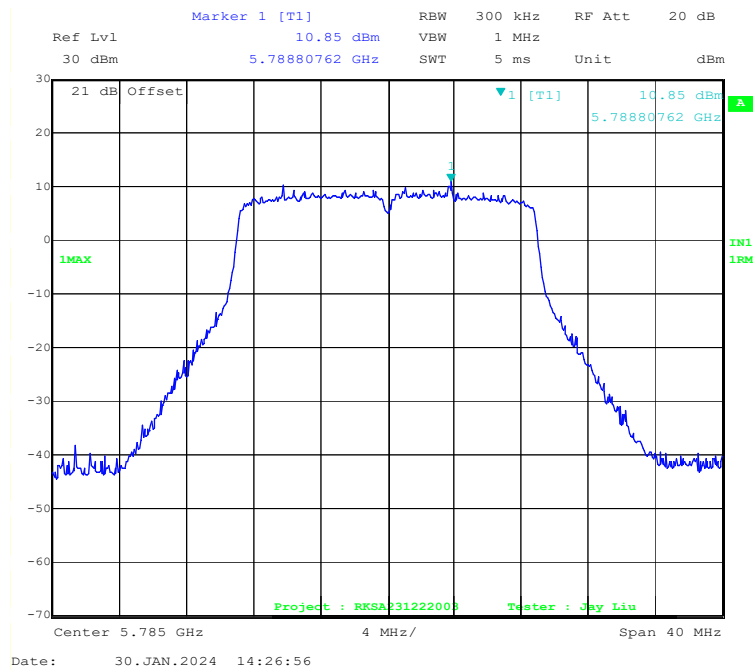
802.11ac20 mode, Power spectral density-5825MHz



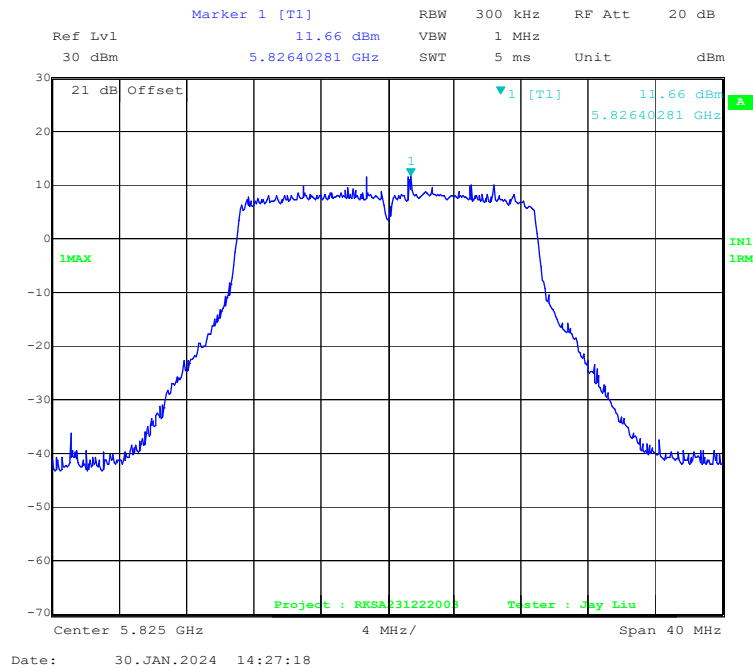
802.11n-HT20 mode, Power spectral density-5745MHz



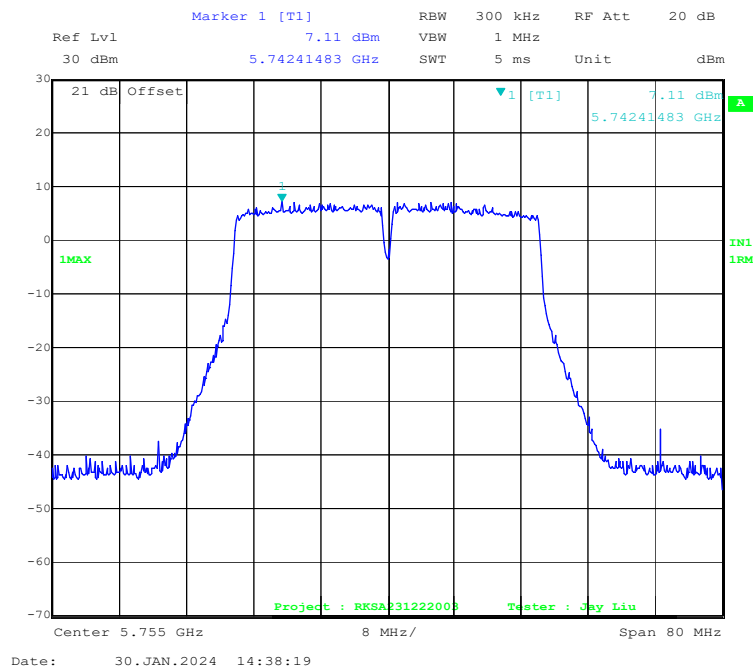
802.11n-HT20 mode, Power spectral density-5785MHz



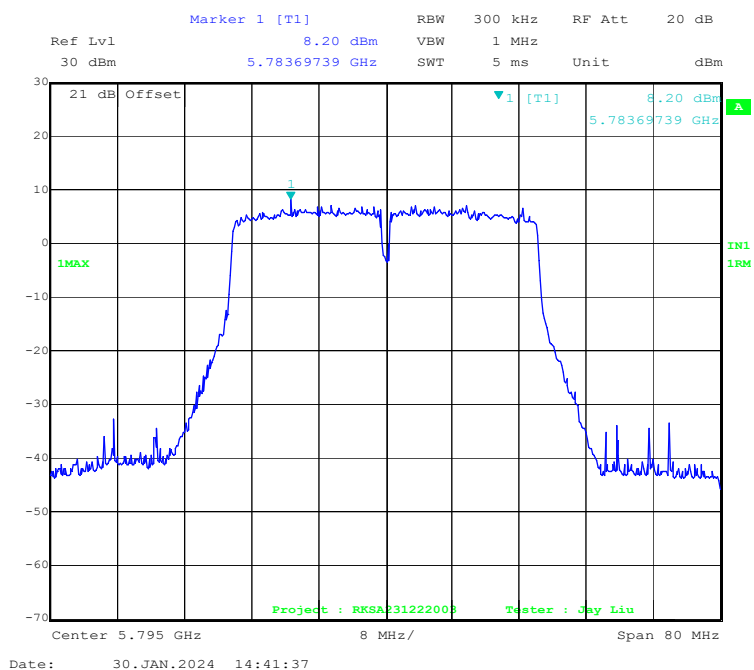
802.11n-HT20 mode, Power spectral density-5825MHz



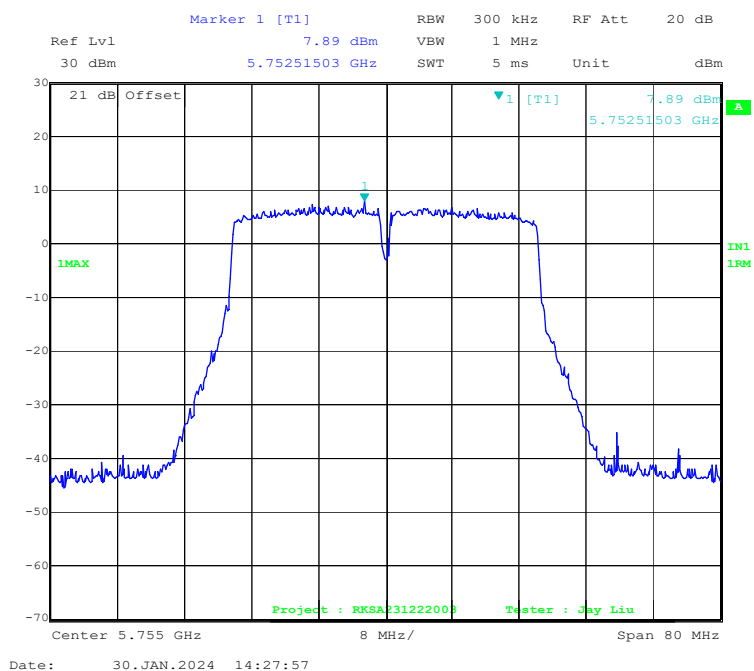
802.11ac40 mode, Power spectral density-5755MHz



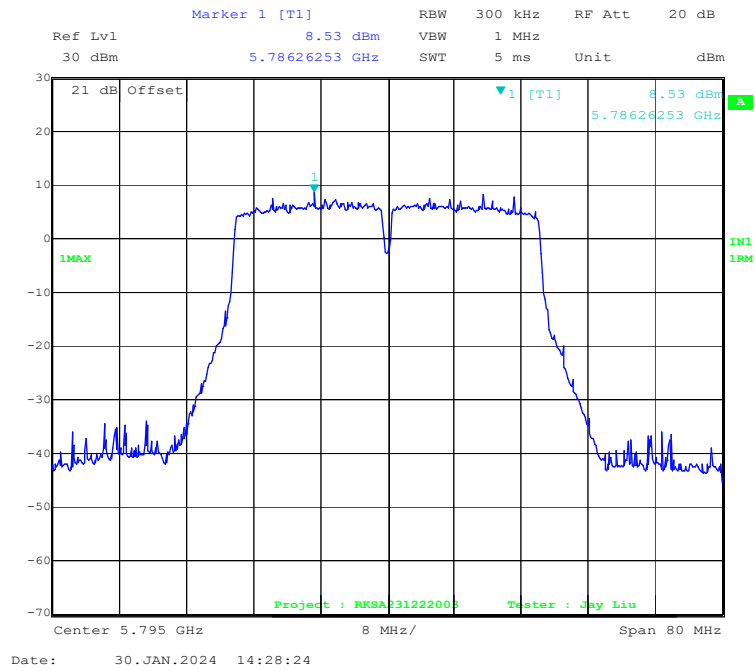
802.11ac40 mode, Power spectral density-5795MHz



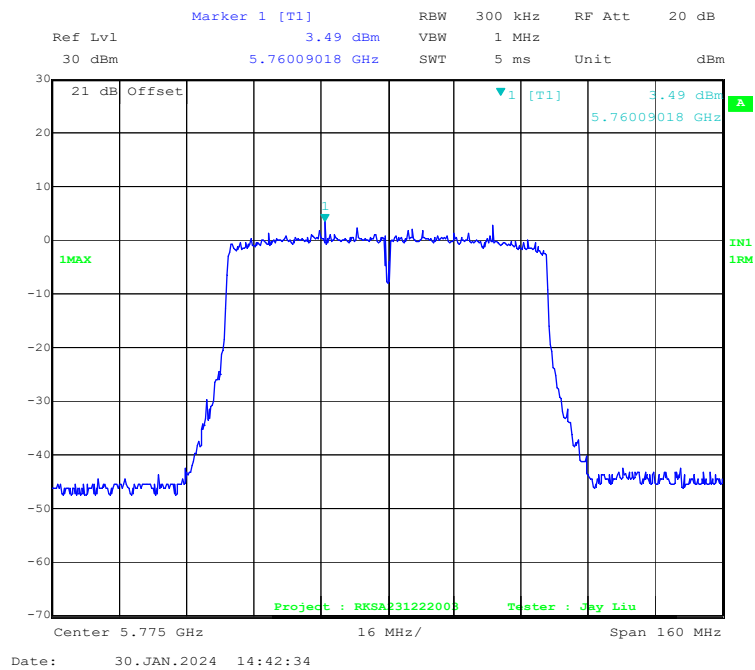
802.11n-HT40 mode, Power spectral density-5755MHz



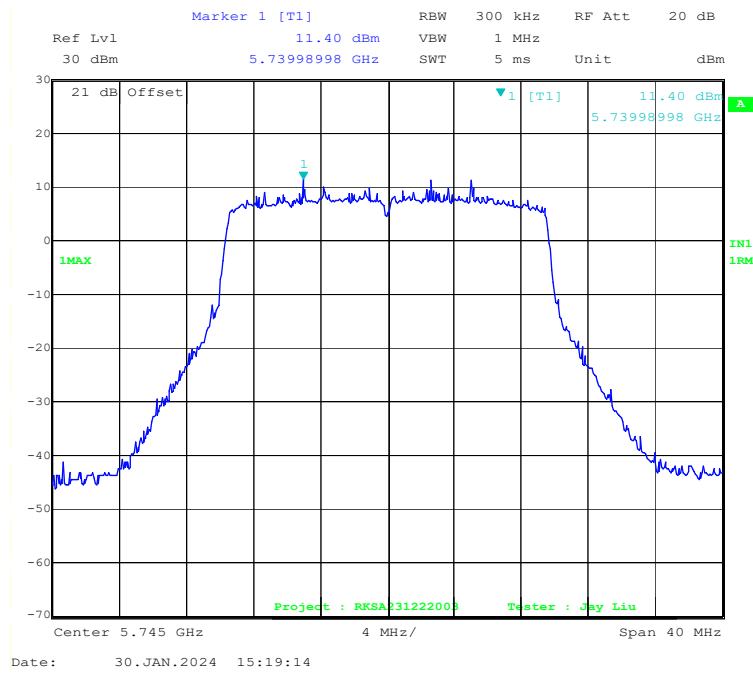
802.11n-HT40 mode, Power spectral density-5795MHz



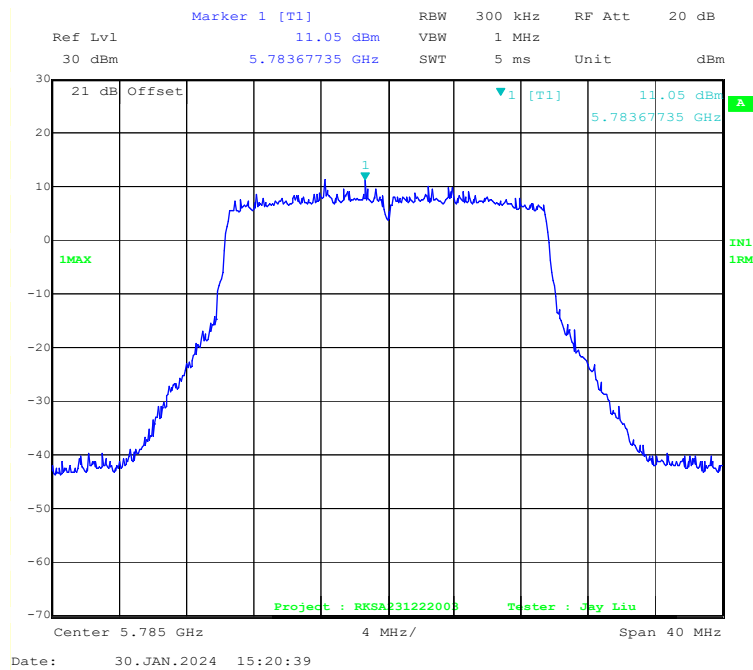
802.11ac80 mode, Power spectral density-5775MHz



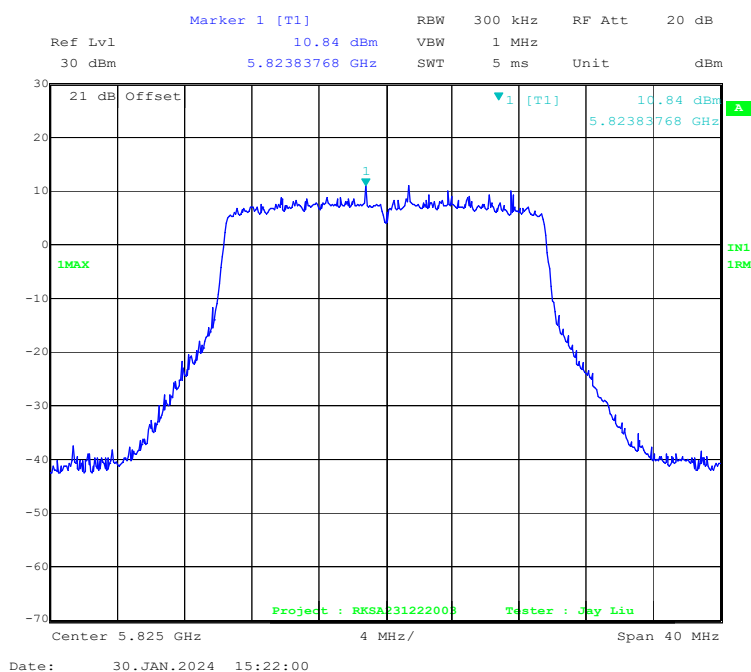
802.11ax20 mode, Power spectral density-5745MHz



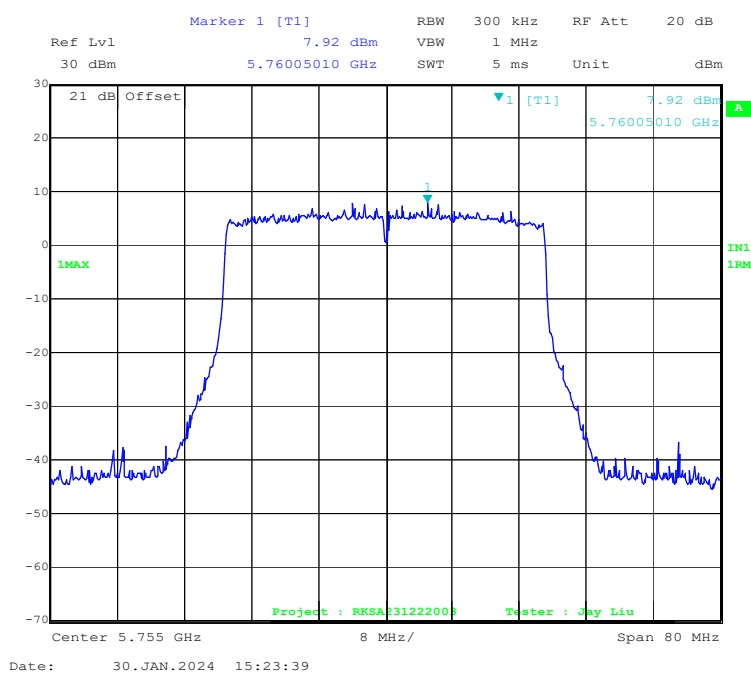
802.11ax20 mode, Power spectral density-5785MHz



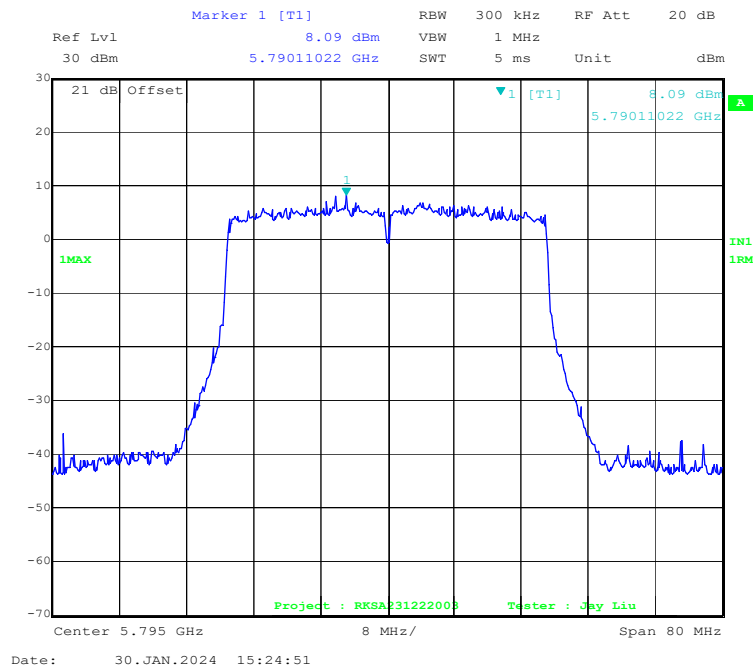
802.11ax20 mode, Power spectral density-5825MHz



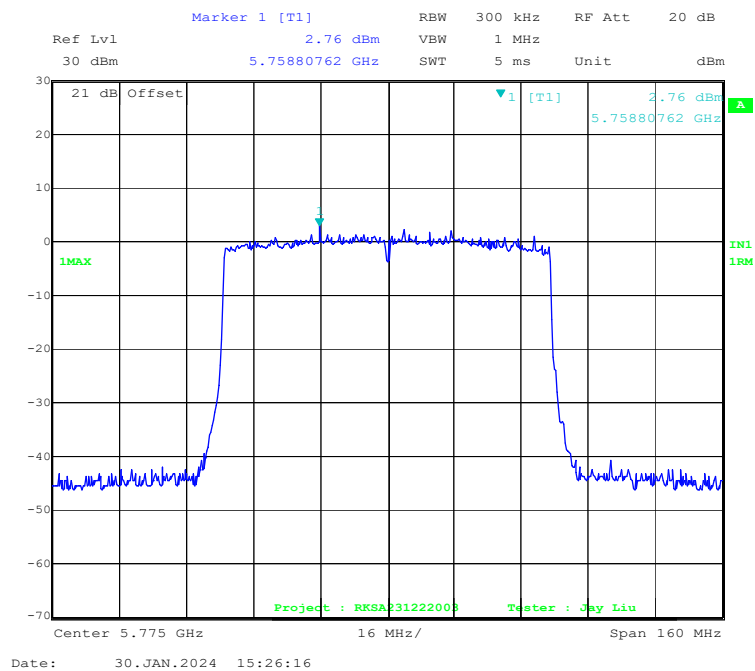
802.11ax40 mode, Power spectral density-5755MHz



802.11ax40 mode, Power spectral density-5795MHz



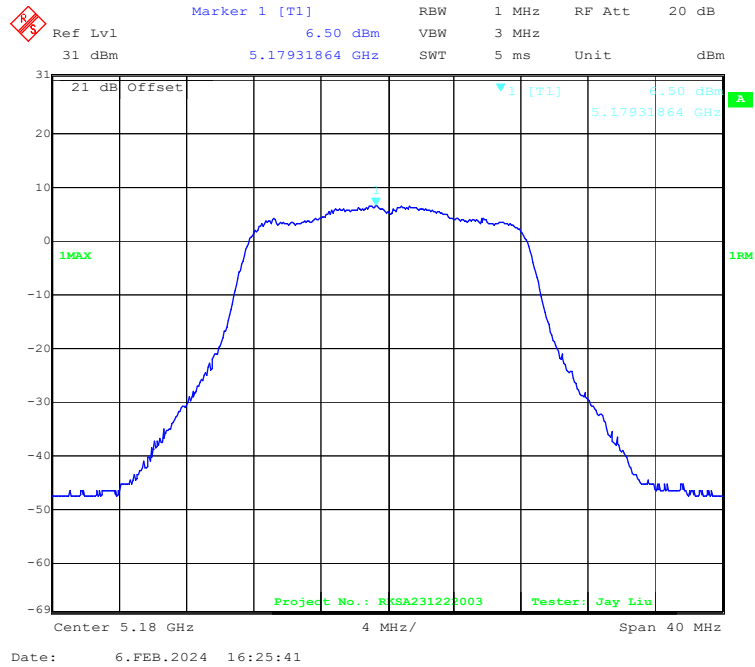
802.11ax80 mode, Power spectral density-5775MHz



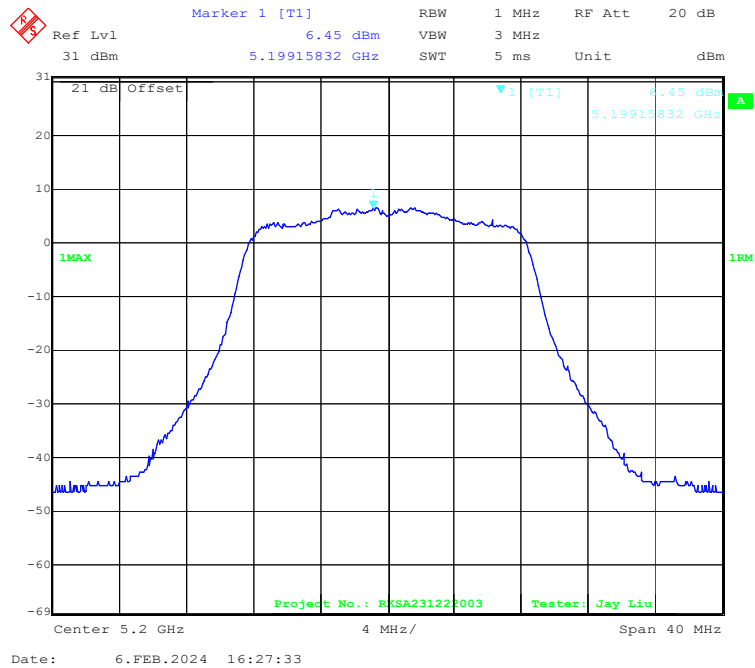
Chain 1:

5150MHz-5250MHz Band:

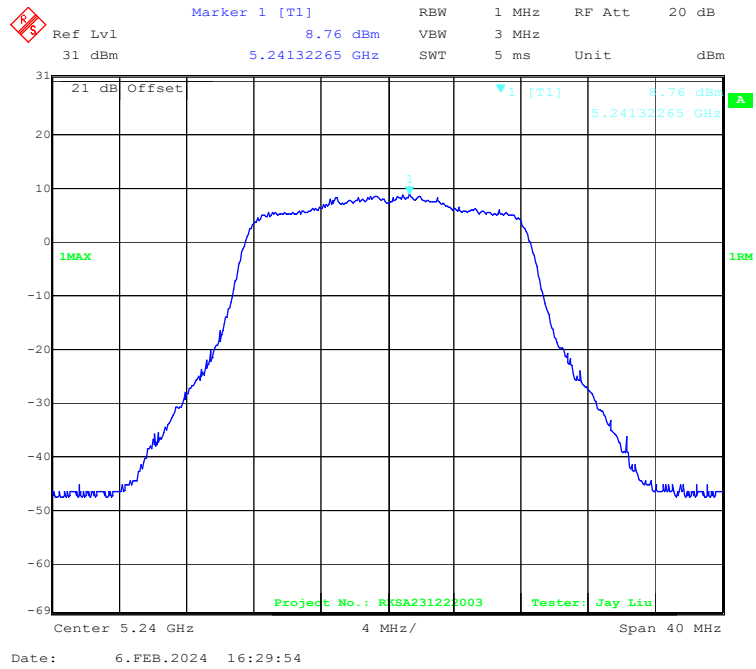
802.11a mode, Power spectral density-5180MHz



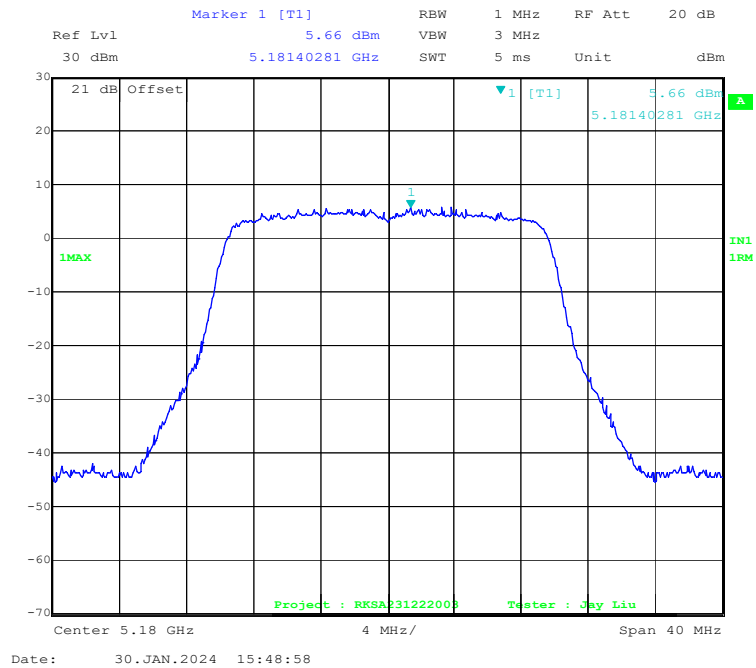
802.11a mode, Power spectral density-5200MHz



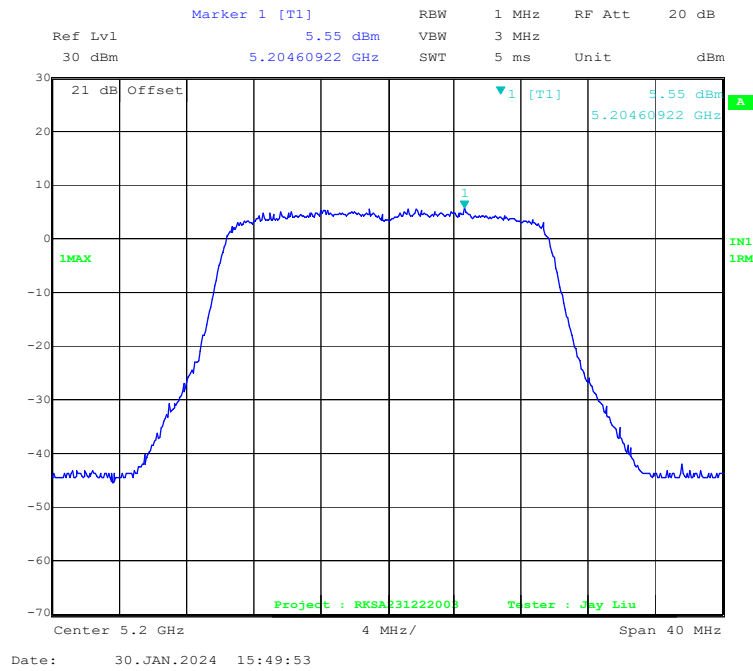
802.11a mode, Power spectral density-5240MHz



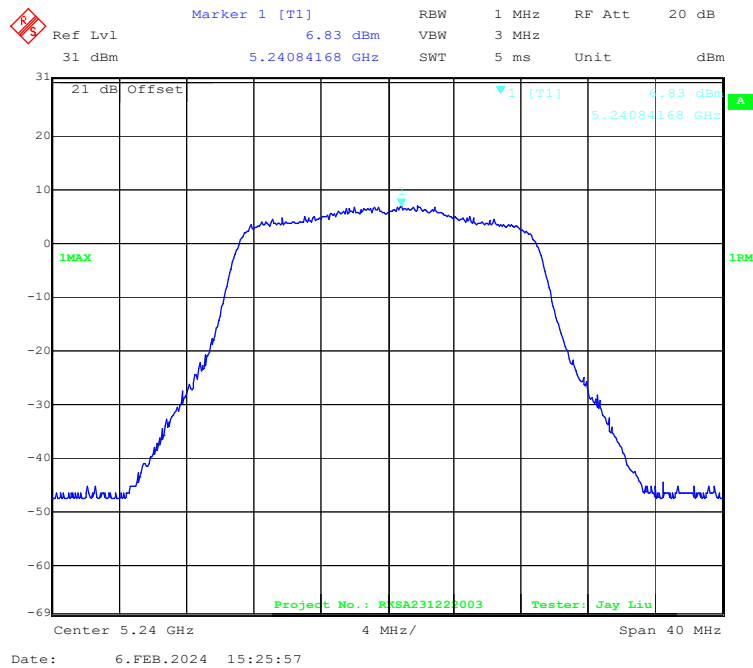
802.11ac20 mode, Power spectral density-5180MHz



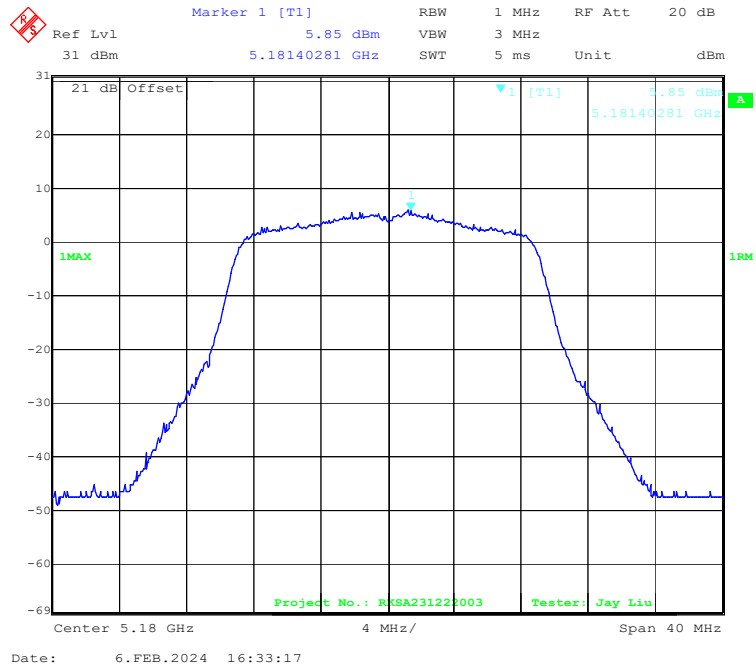
802.11ac20 mode, Power spectral density-5200MHz



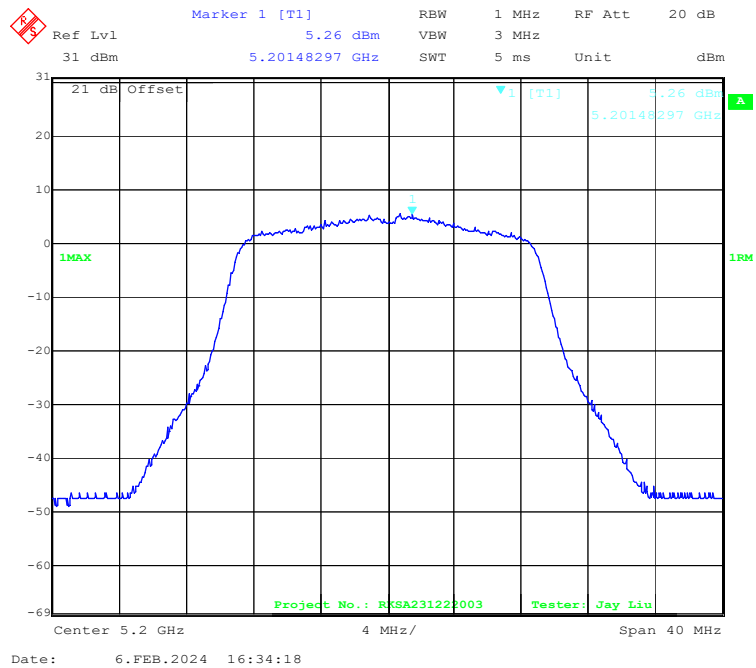
802.11ac20 mode, Power spectral density-5240MHz



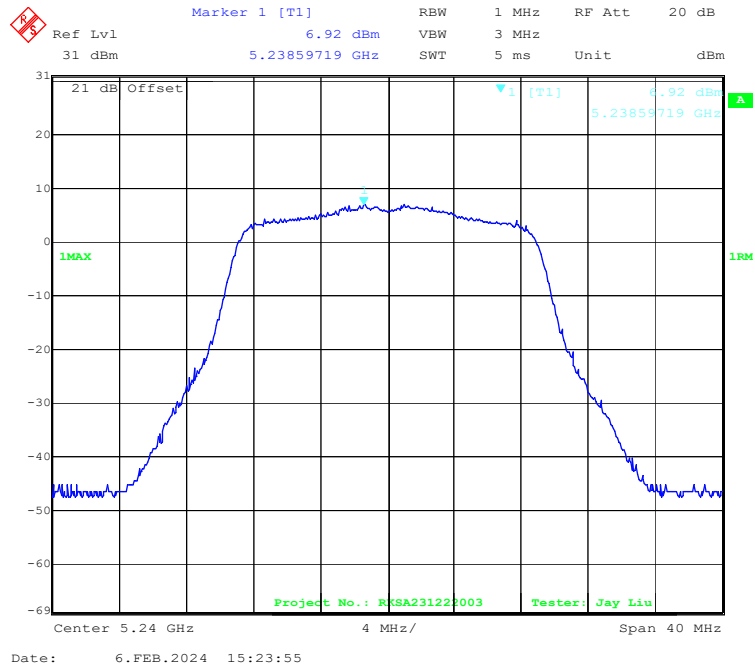
802.11n-HT20 mode, Power spectral density-5180MHz



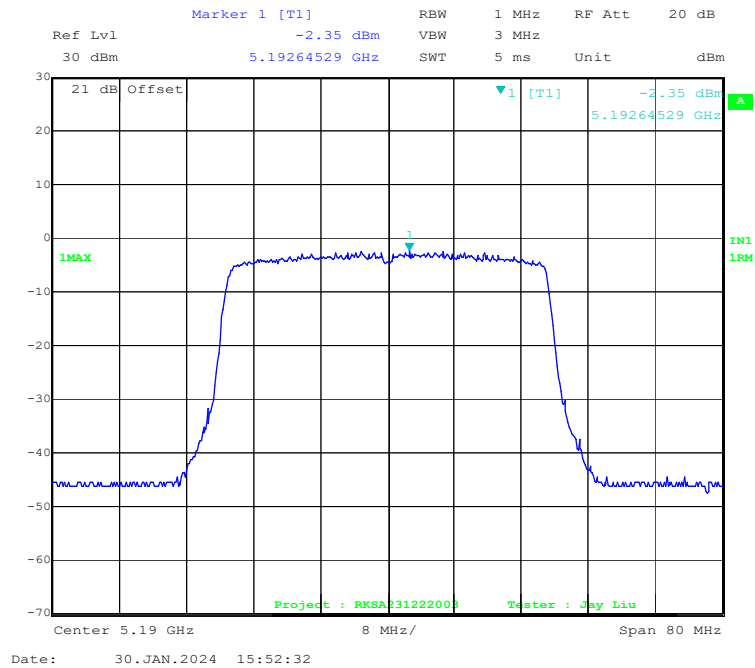
802.11n-HT20 mode, Power spectral density-5200MHz



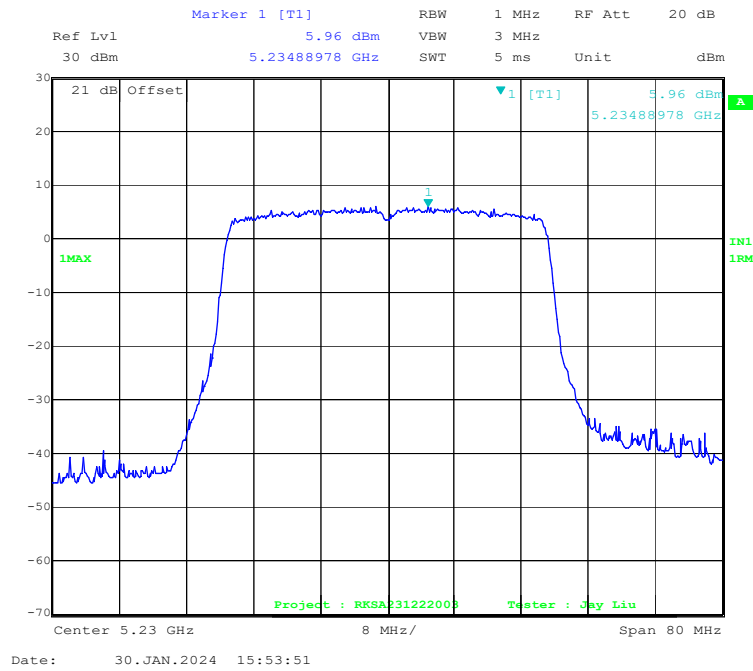
802.11n-HT20 mode, Power spectral density-5240MHz



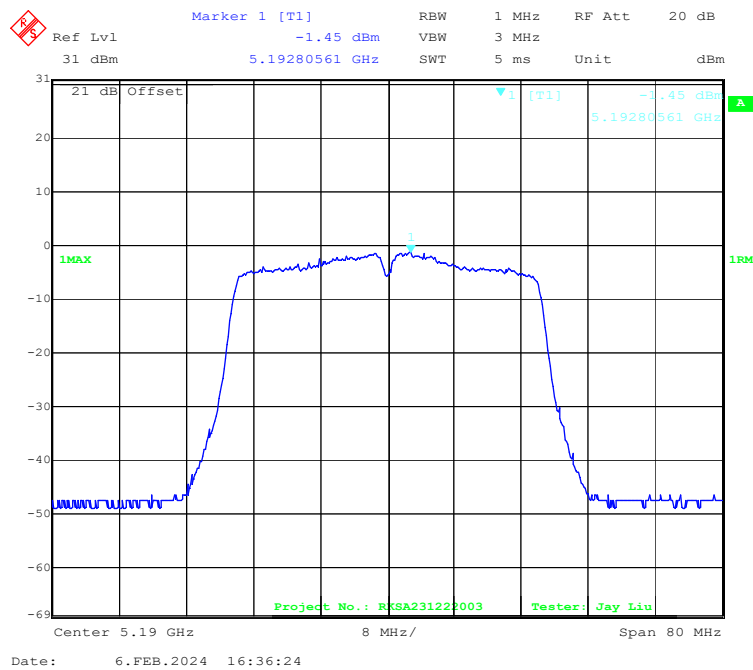
802.11ac40 mode, Power spectral density-5190MHz



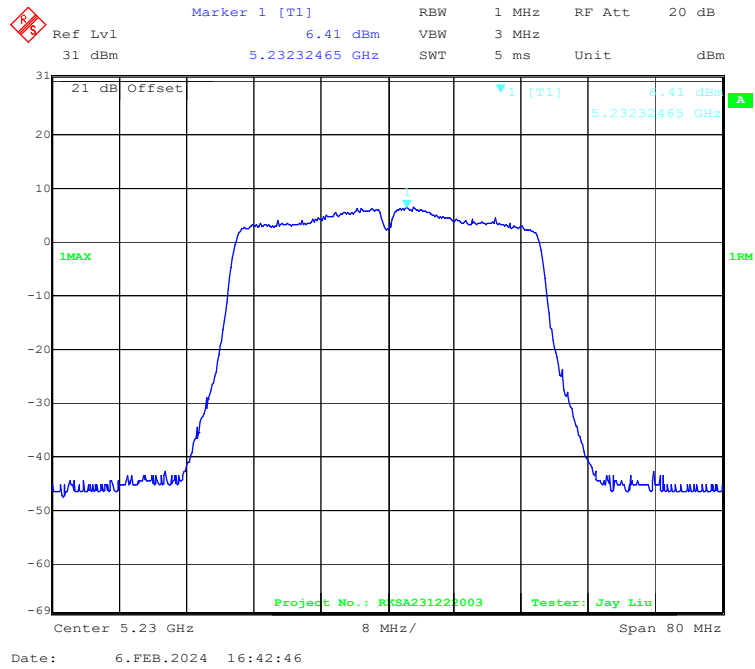
802.11ac40 mode, Power spectral density-5230MHz



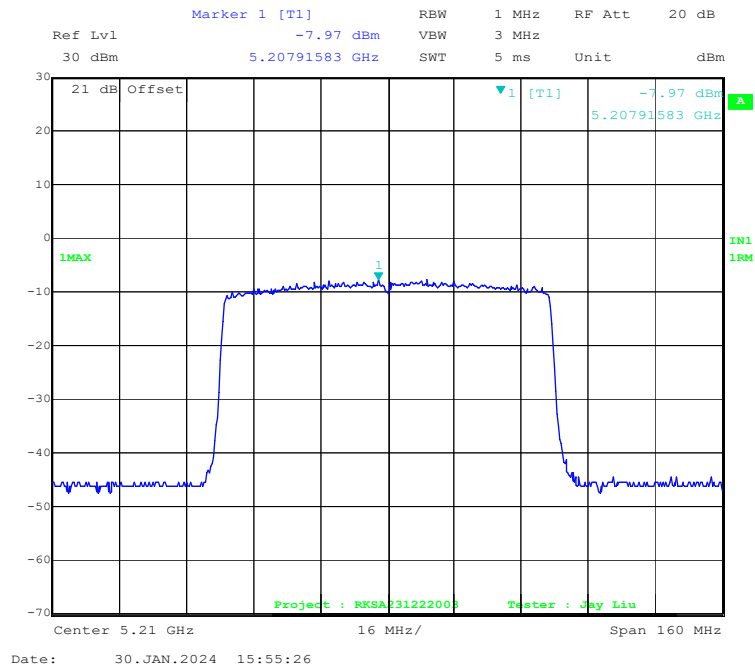
802.11n-HT40 mode, Power spectral density-5190MHz



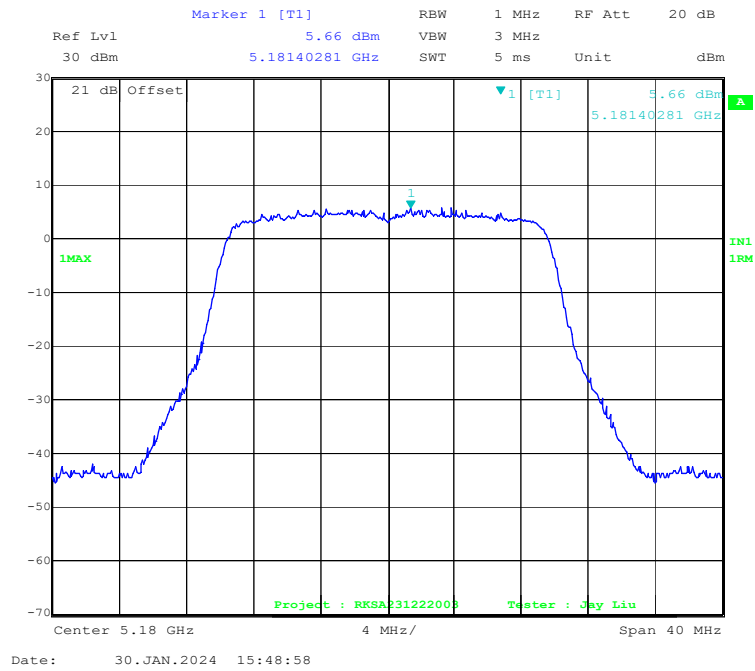
802.11n-HT40 mode, Power spectral density-5230MHz



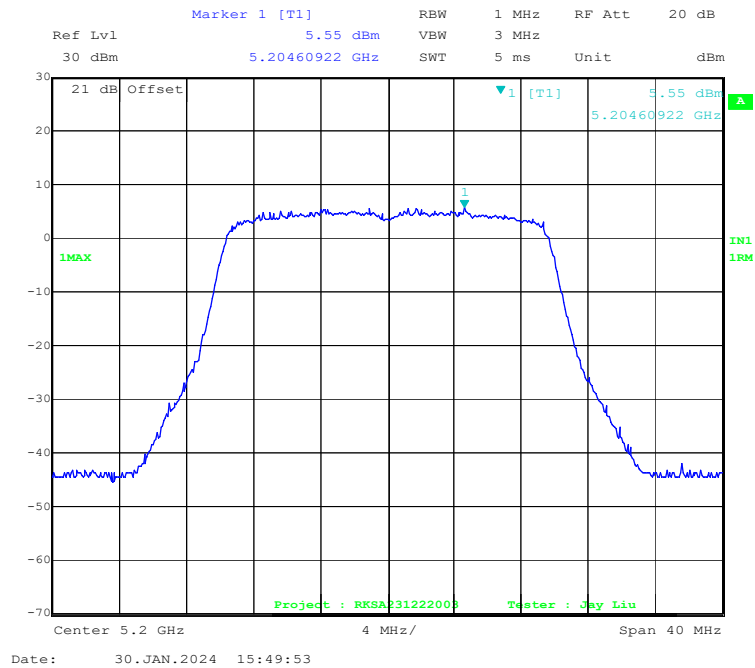
802.11ac80 mode, Power spectral density-5210MHz



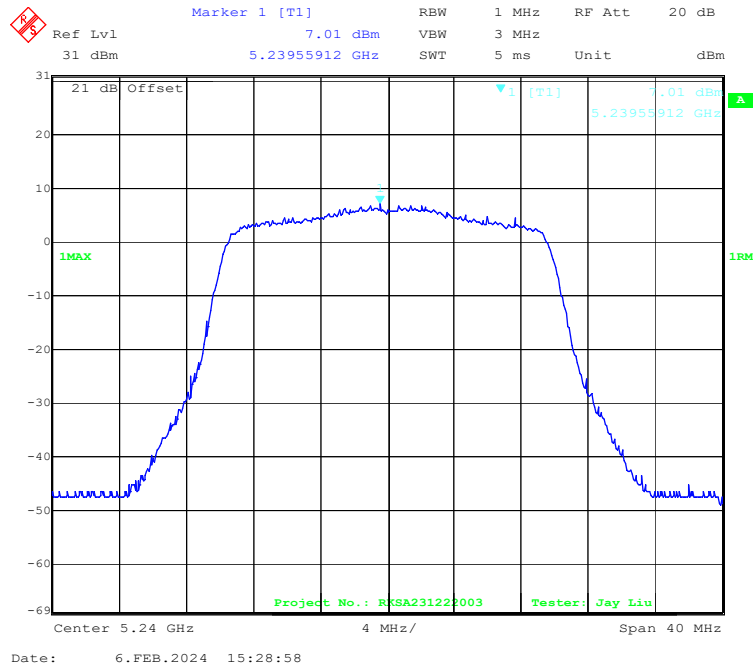
802.11ax-HE20 mode, Power spectral density-5180MHz



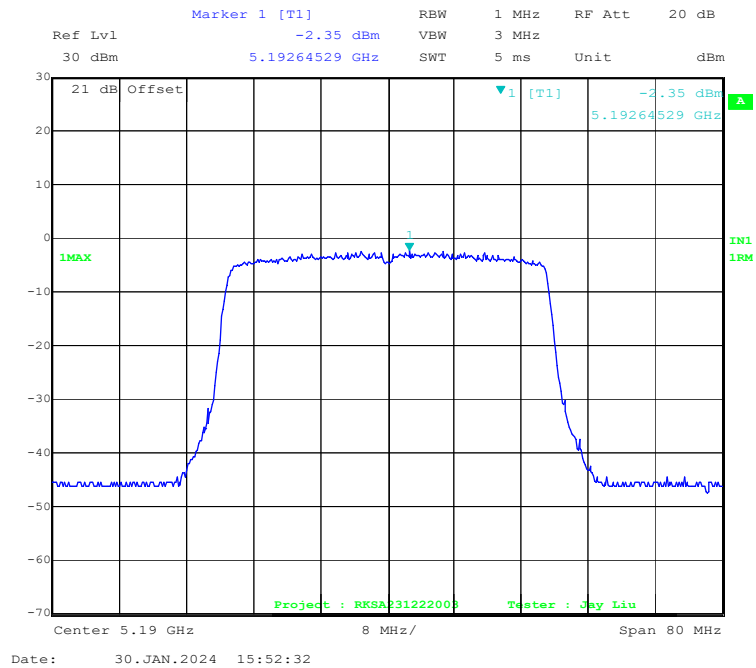
802.11ax-HE20 mode, Power spectral density-5200MHz



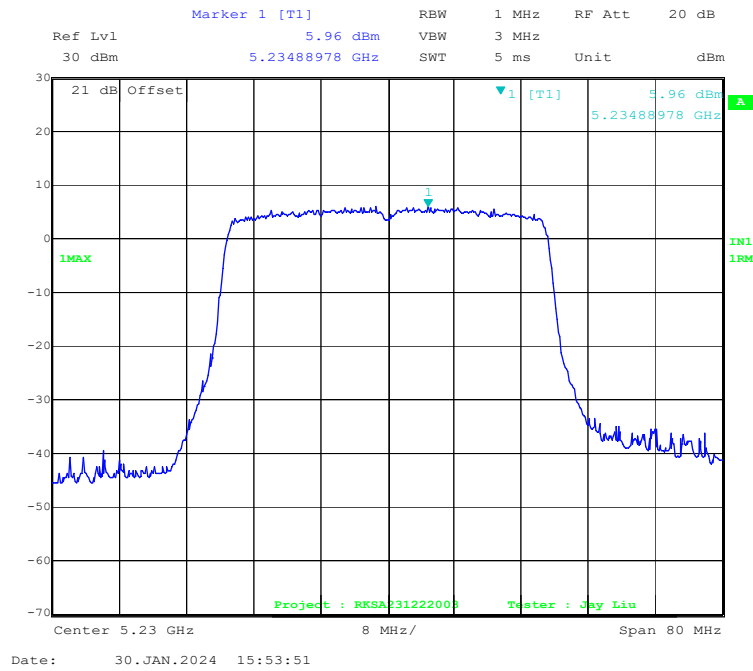
802.11ax-HE20 mode, Power spectral density-5240MHz



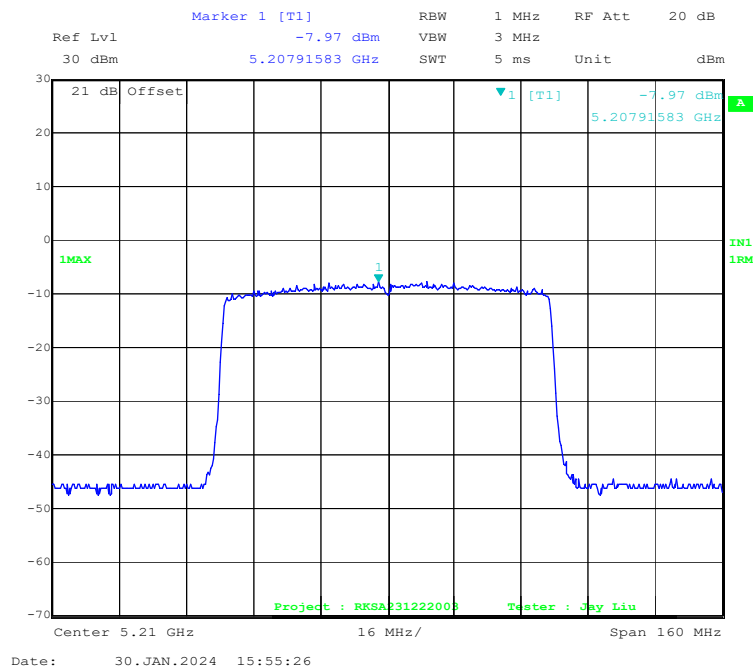
802.11ax-HE40 mode, Power spectral density-5190MHz



802.11ax-HE40 mode, Power spectral density-5230MHz

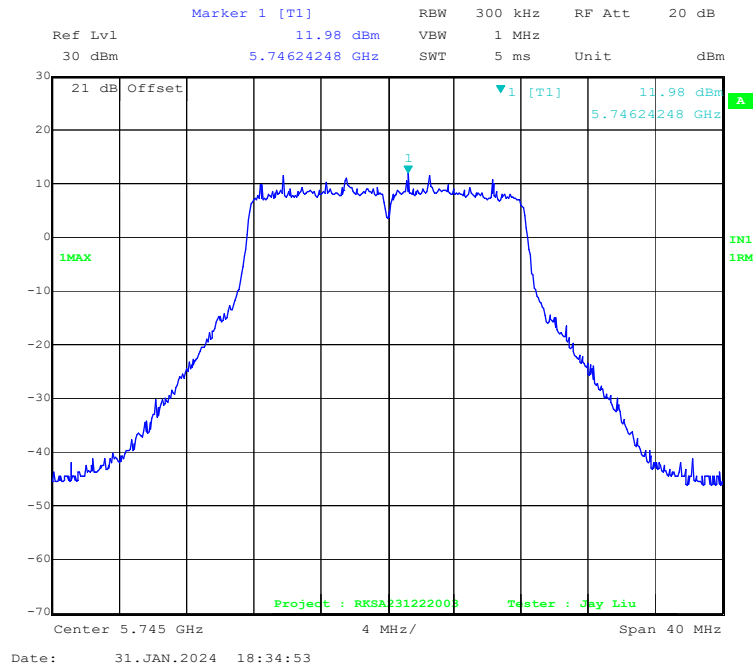


802.11ax-HE80 mode, Power spectral density-5210MHz

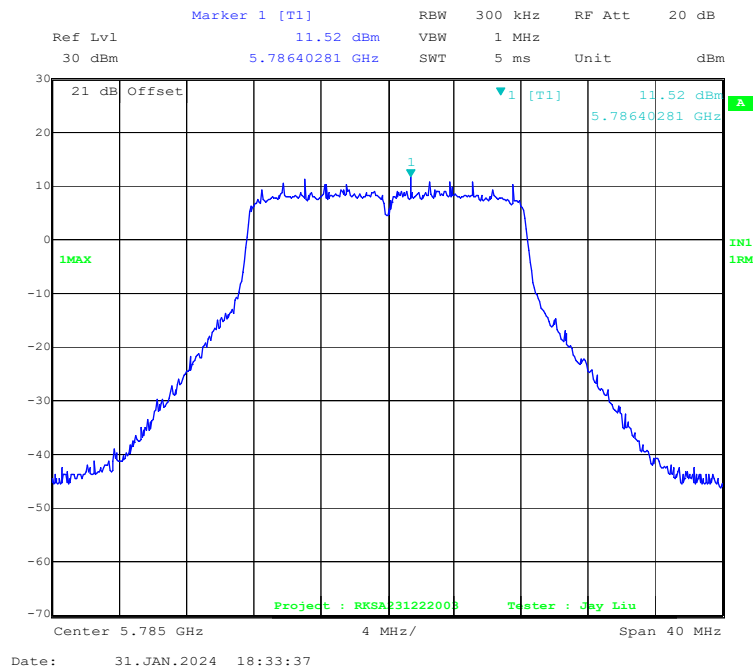


5725MHz-5850 MHz Band:

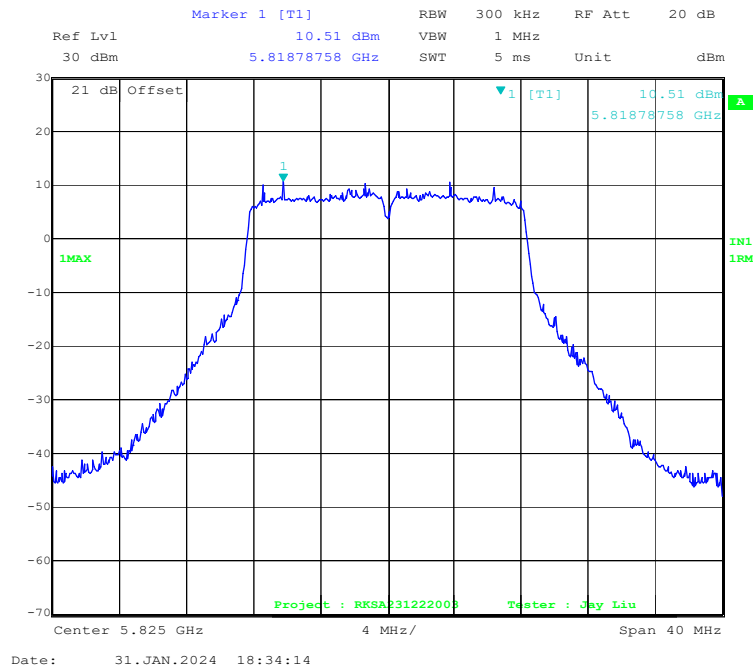
802.11a mode, Power spectral density-5745MHz



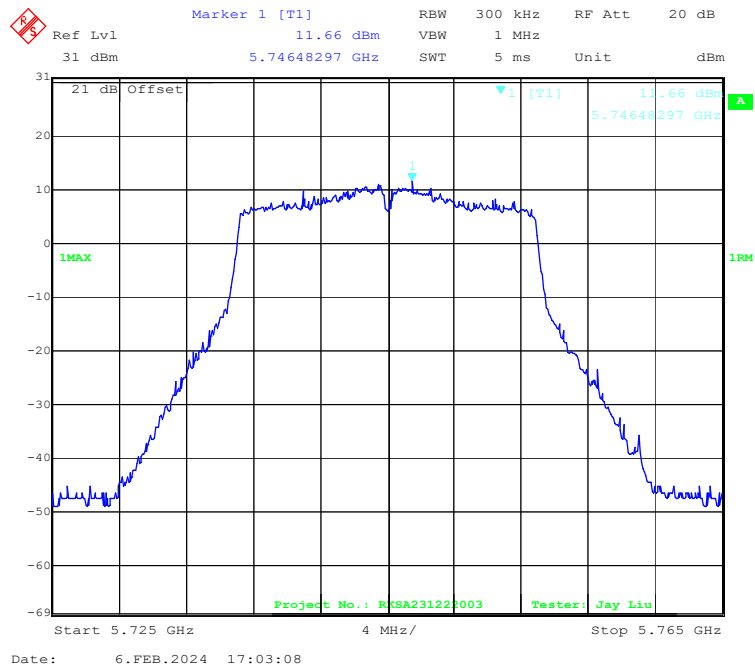
802.11a mode, Power spectral density-5785MHz



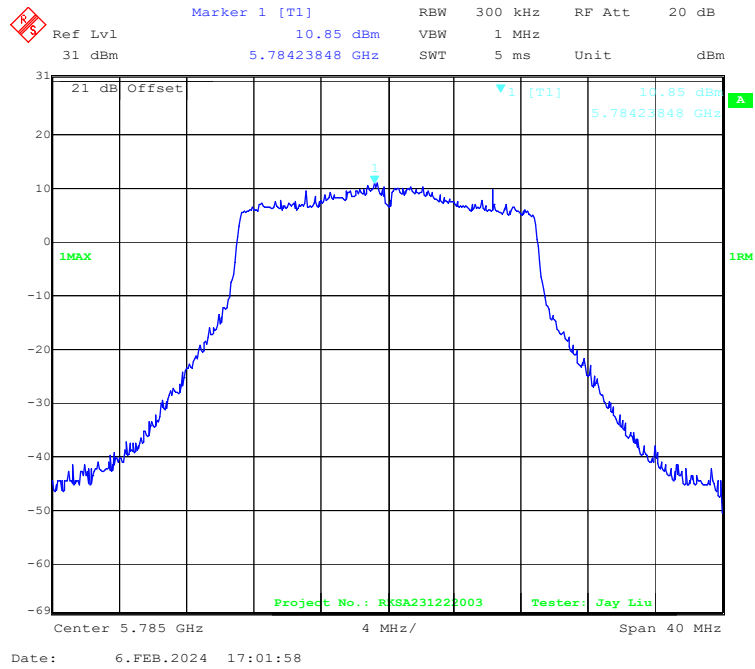
802.11a mode, Power spectral density-5825MHz



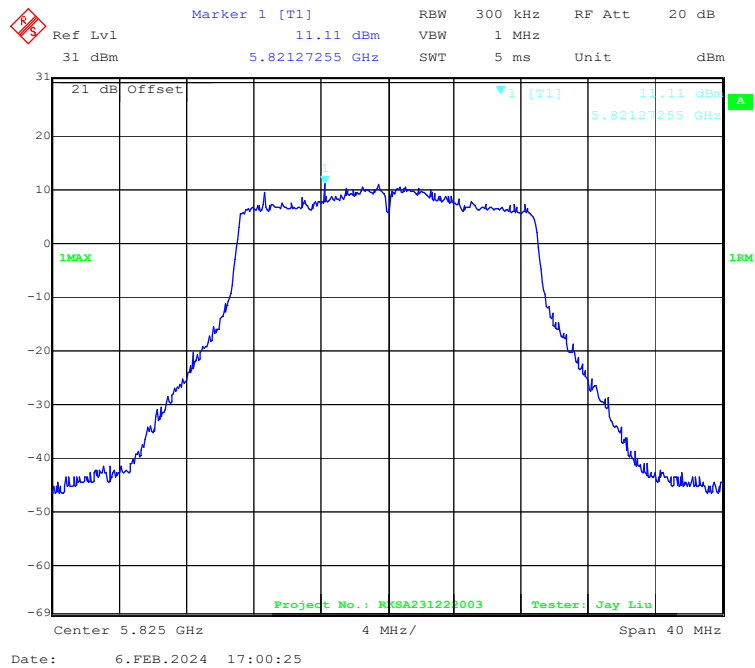
802.11ac20 mode, Power spectral density-5745MHz



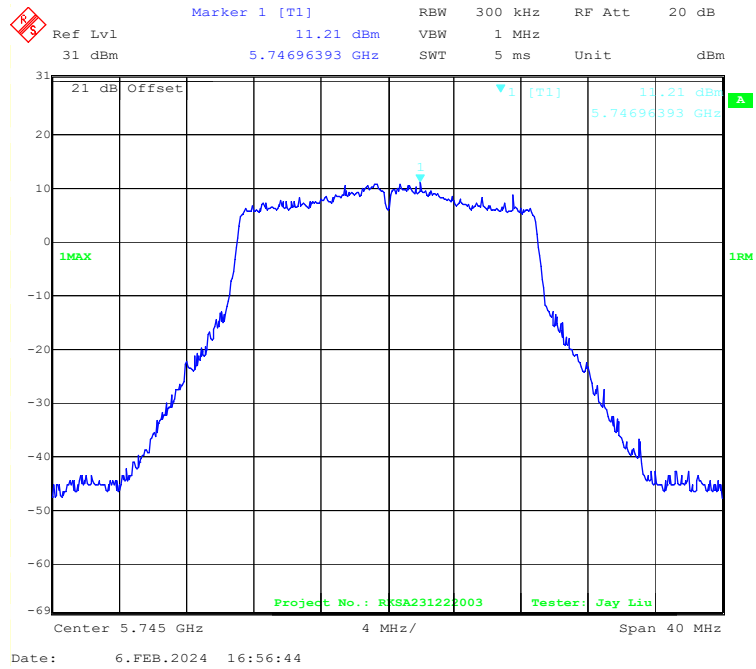
802.11ac20 mode, Power spectral density-5785MHz



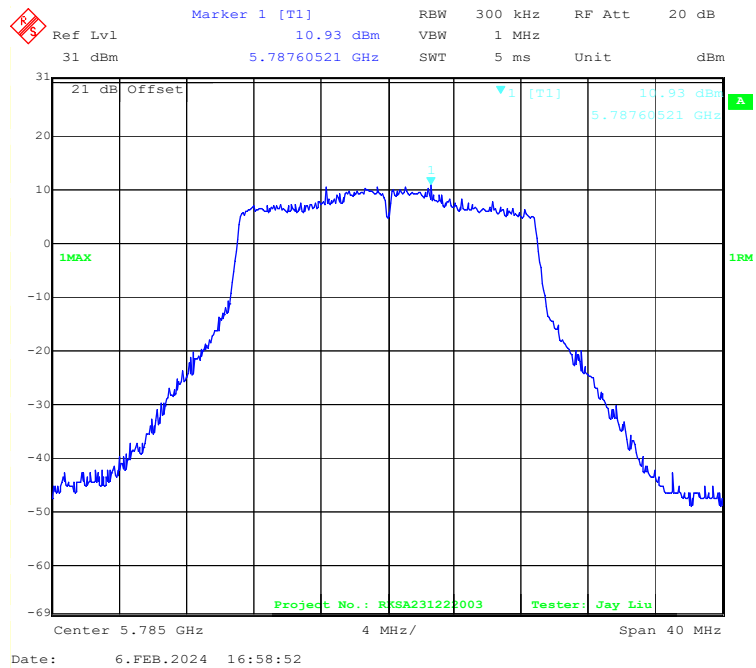
802.11ac20 mode, Power spectral density-5825MHz



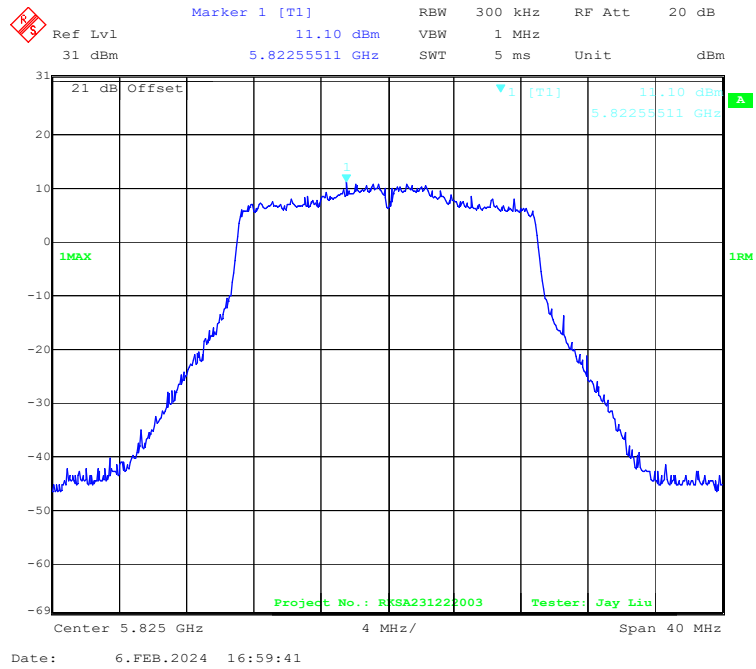
802.11n-HT20 mode, Power spectral density-5745MHz



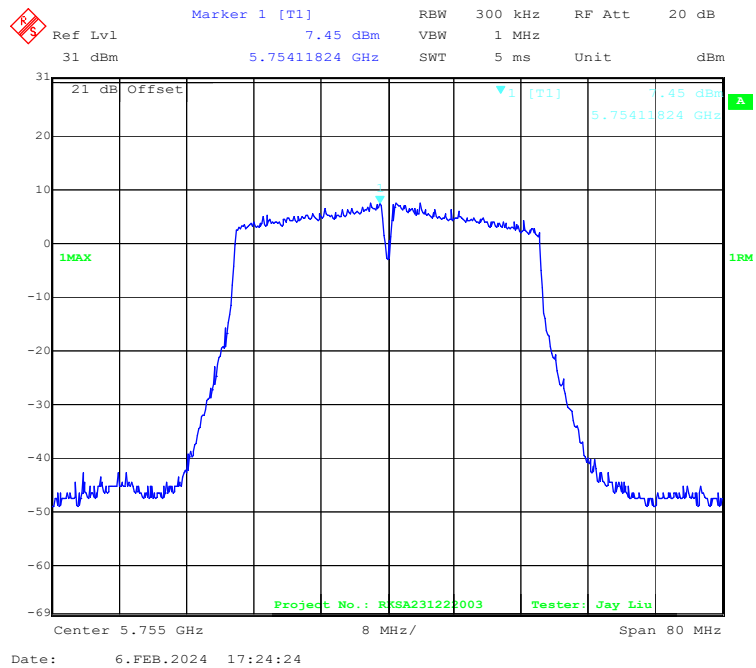
802.11n-HT20 mode, Power spectral density-5785MHz



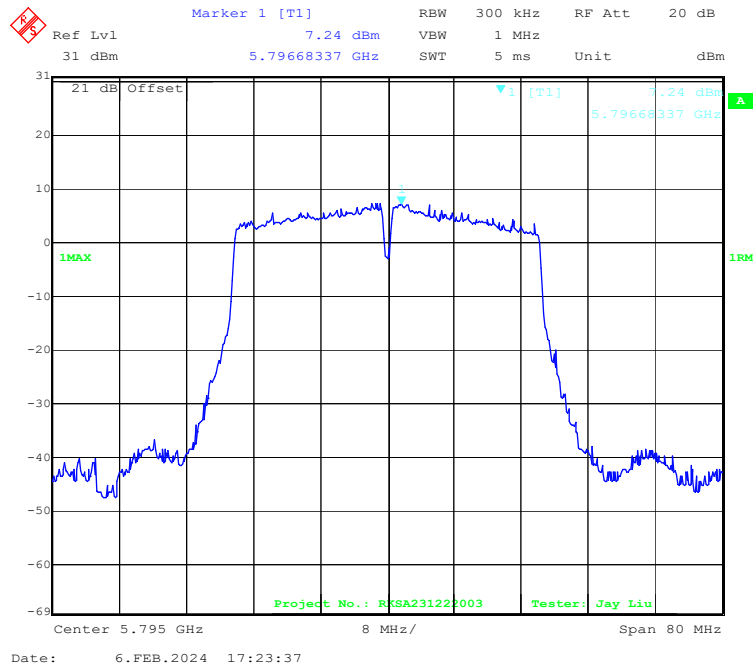
802.11n-HT20 mode, Power spectral density-5825MHz



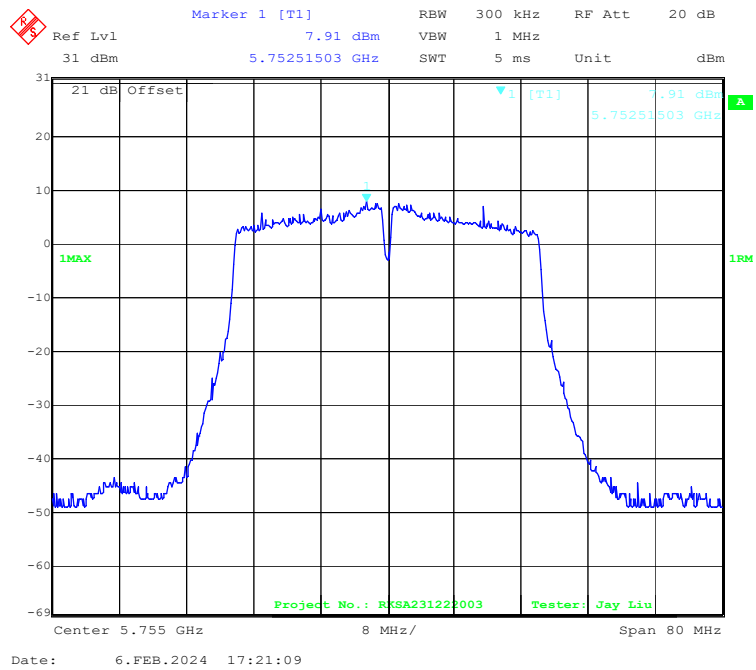
802.11ac40 mode, Power spectral density-5755MHz



802.11ac40 mode, Power spectral density-5795MHz



802.11n-HT40 mode, Power spectral density-5755MHz



Ref Lvl 31 dBm
 Marker 1 [T1] 7.68 dBm
 RBW 300 kHz
 RF Att 20 dB
 31 dBm
 5.79331663 GHz
 SWT 5 ms
 Unit dBm

21 dB Offset
 1 [T1] 7.68 dBm
 5.79331663 GHz
 1MAX
 1RM

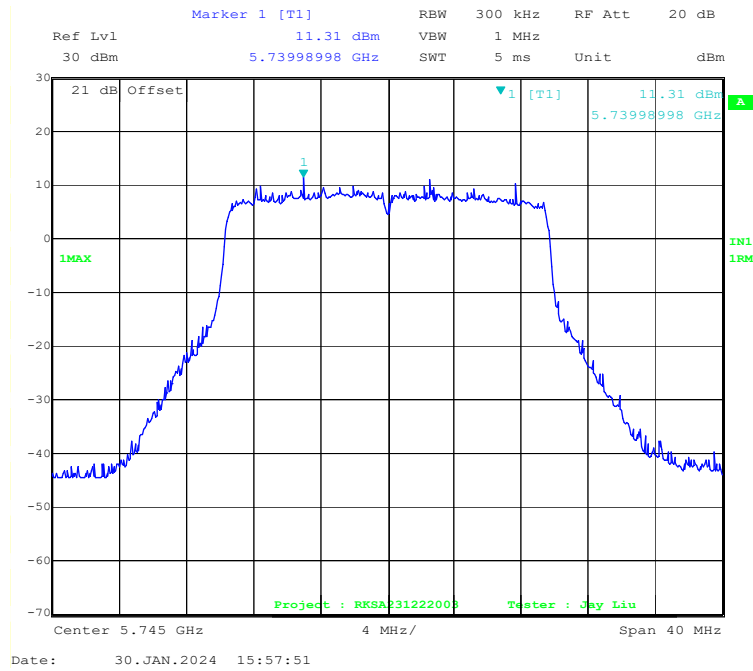
Project No.: RUSA231221003
 Tester: Jay Liu

Center 5.795 GHz
 8 MHz/
 Span 80 MHz

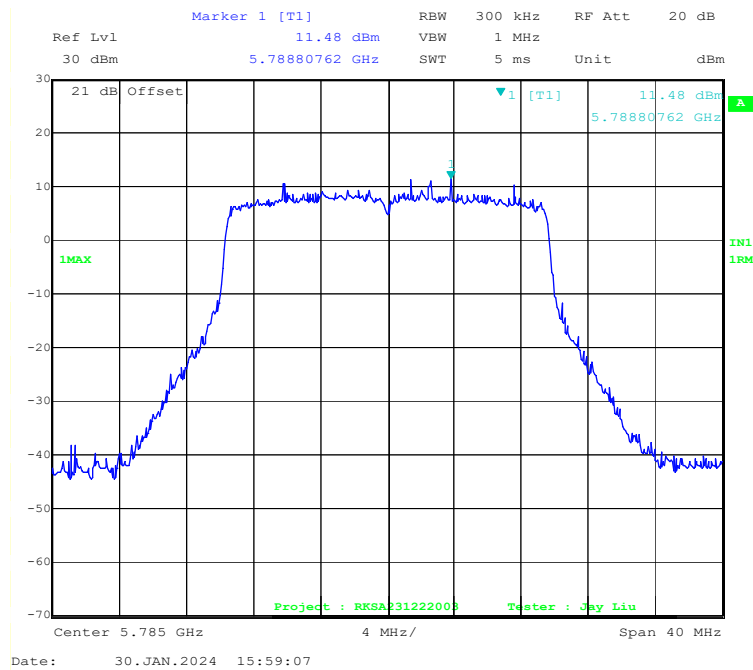
Date: 6.FEB.2024 17:22:09

Ref Lvl 31 dBm
 31 dBm
 5.77259519 GHz
 RBW 300 kHz
 VBW 1 MHz
 SWT 5 ms
 Unit dBm
 20 dB
 21 dB Offset
 1 [T1]
 3.76 dBm
 5.77259519 GHz
 1MAX
 1RM
 Project No.: R6SA231221003
 Tester: Jay Liu
 Center 5.775 GHz
 16 MHz/
 Span 160 MHz
 Date: 6.FEB.2024 17:25:54

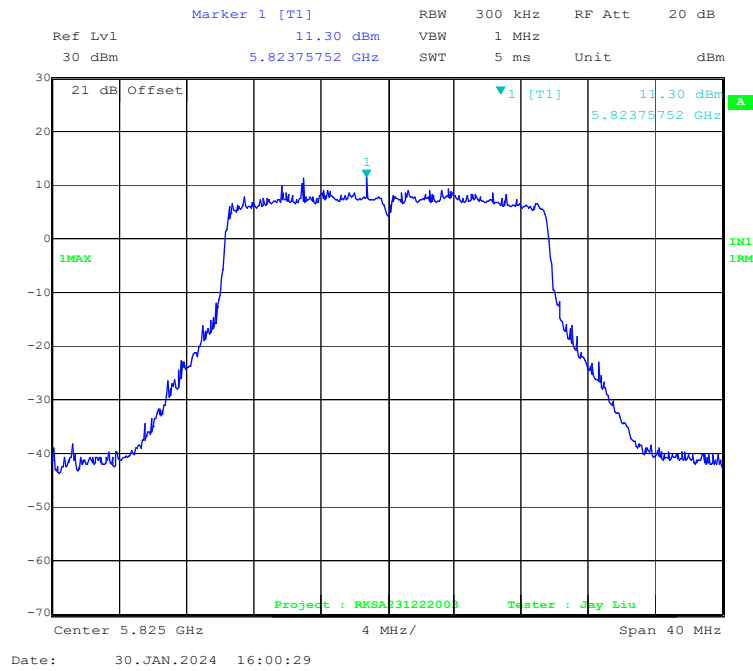
802.11ax20 mode, Power spectral density-5745MHz



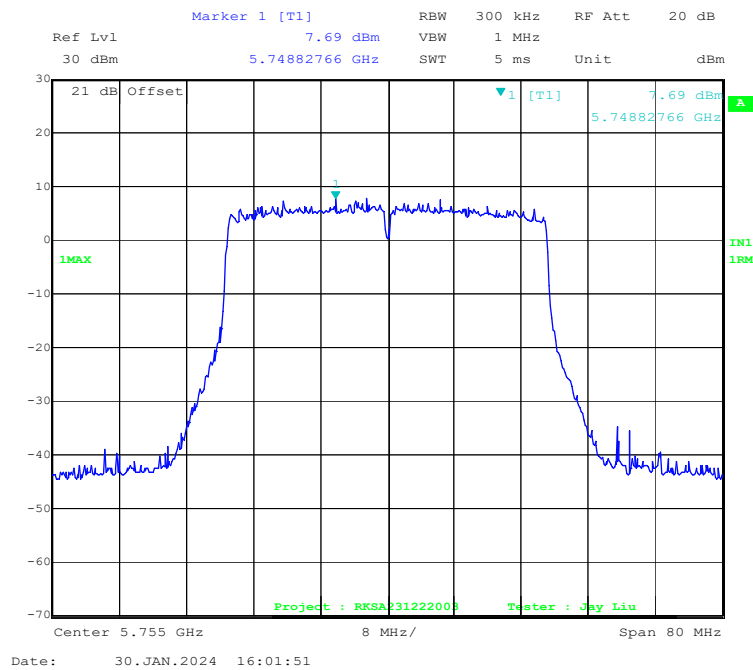
802.11ax20 mode, Power spectral density-5785MHz



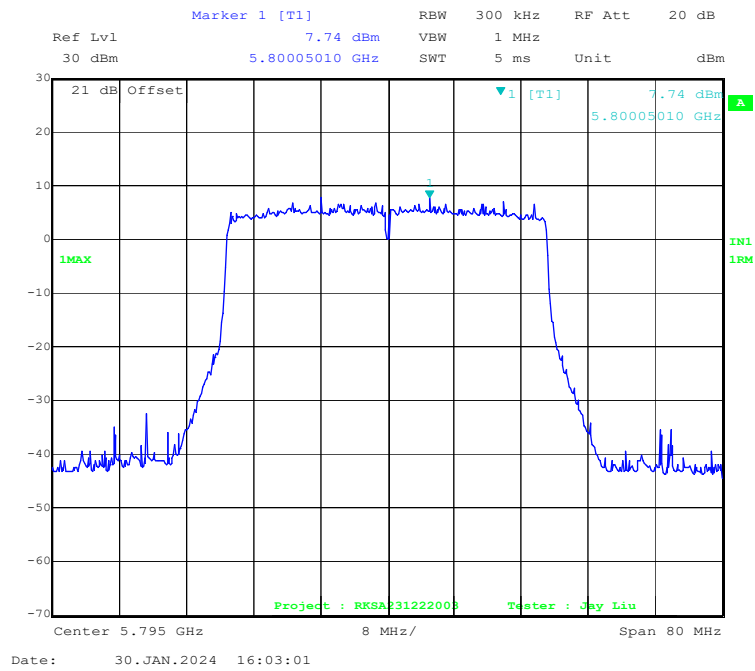
802.11ax20 mode, Power spectral density-5825MHz



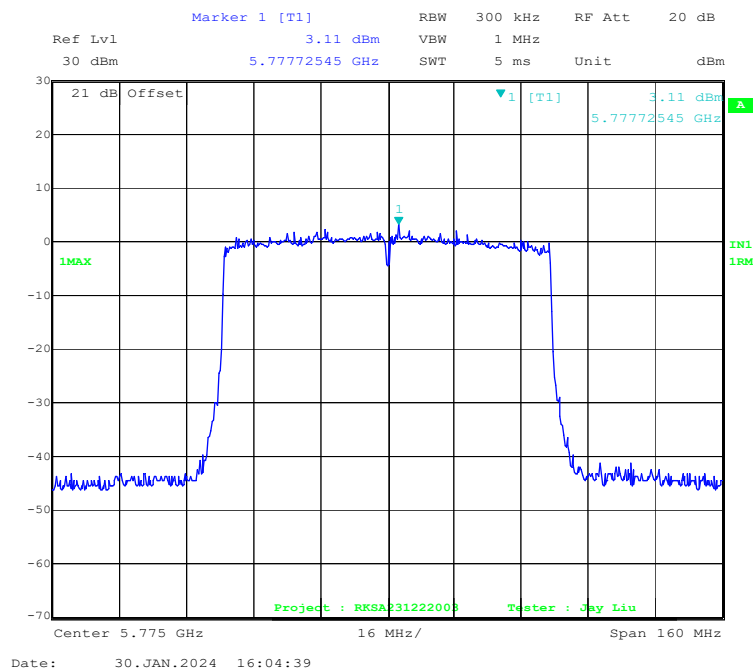
802.11ax40 mode, Power spectral density-5755MHz



802.11ax40 mode, Power spectral density-5795MHz



802.11ax80 mode, Power spectral density-5775MHz



EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A_EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B_EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C_TEST SETUP PHOTOGRAPHS.

Declarations

1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

5: This report cannot be reproduced except in full, without prior written approval of the Company.

6: This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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