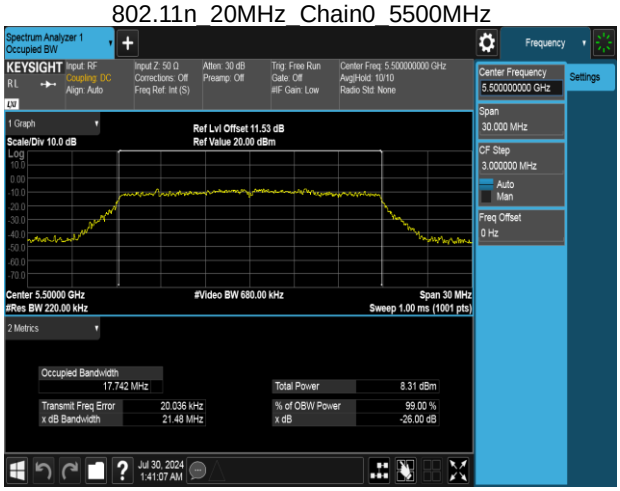
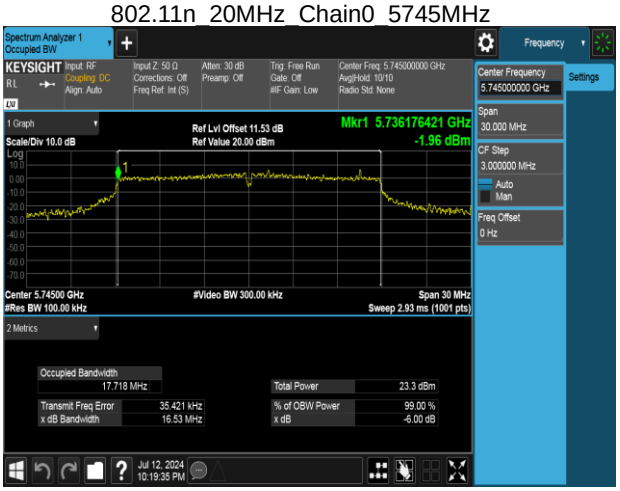
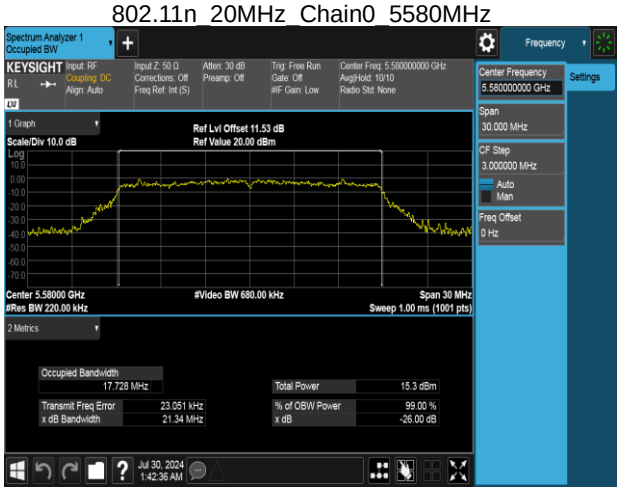
802.11n_20MHz_Chain0_5500MHz



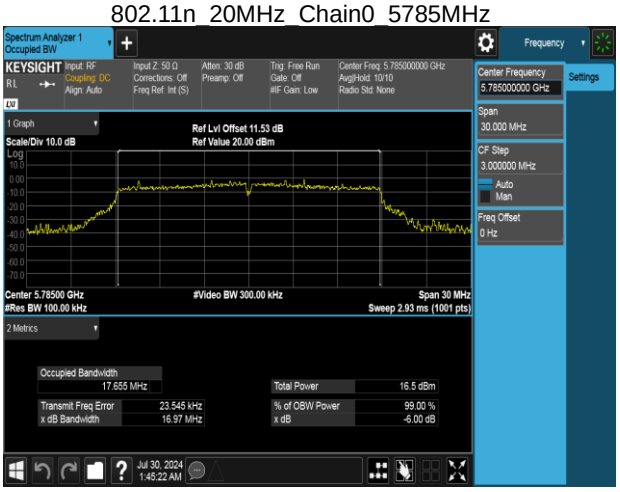
802.11n_20MHz_Chain0_5745MHz



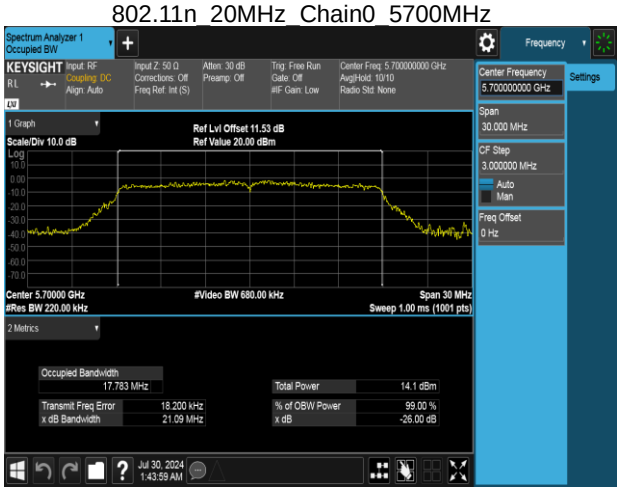
802.11n_20MHz_Chain0_5580MHz



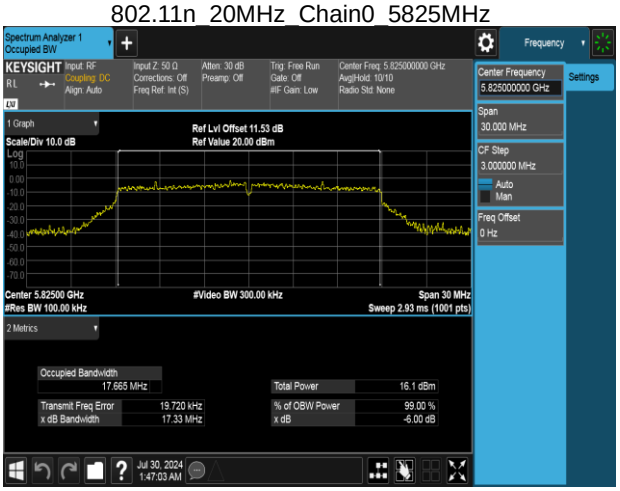
802.11n_20MHz_Chain0_5785MHz



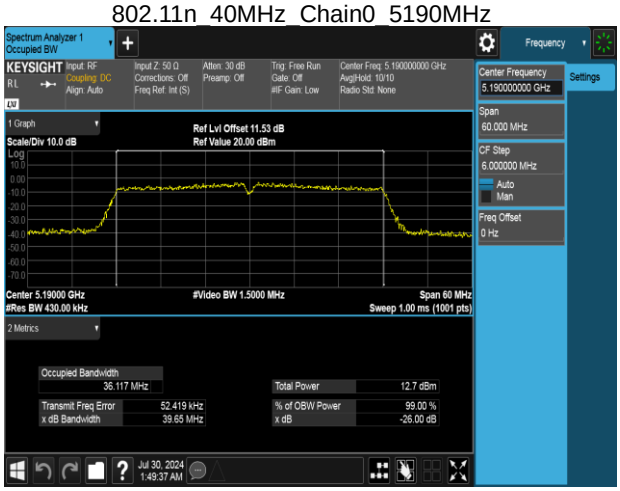
802.11n_20MHz_Chain0_5700MHz



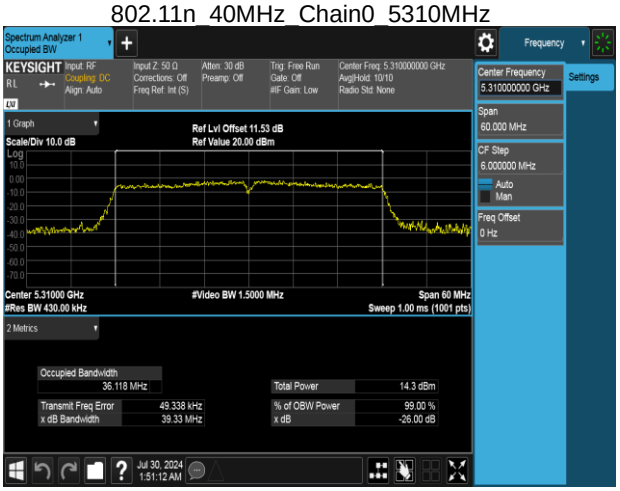
802.11n_20MHz_Chain0_5825MHz



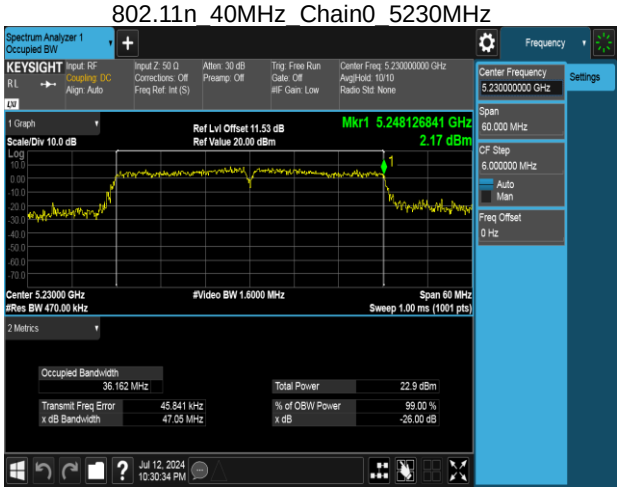
802.11n_40MHz_Chain0_5190MHz



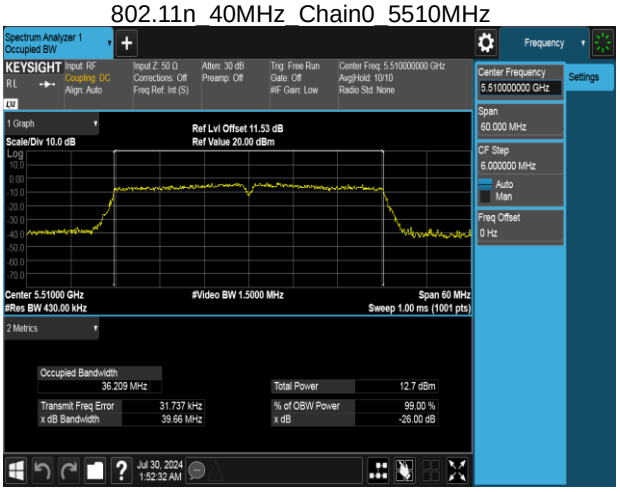
802.11n_40MHz_Chain0_5310MHz



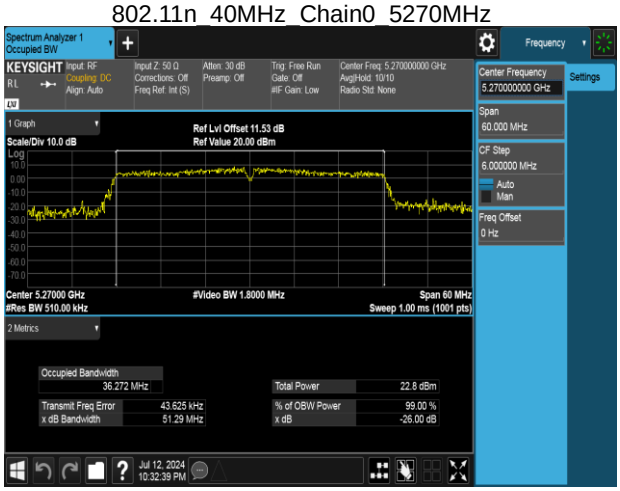
802.11n_40MHz_Chain0_5230MHz



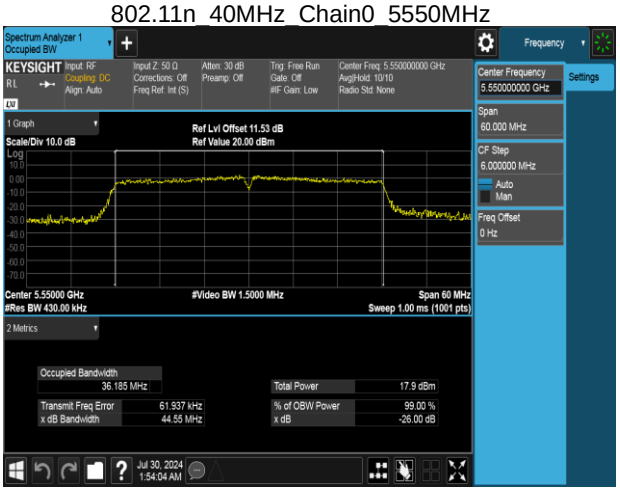
802.11n_40MHz_Chain0_5510MHz



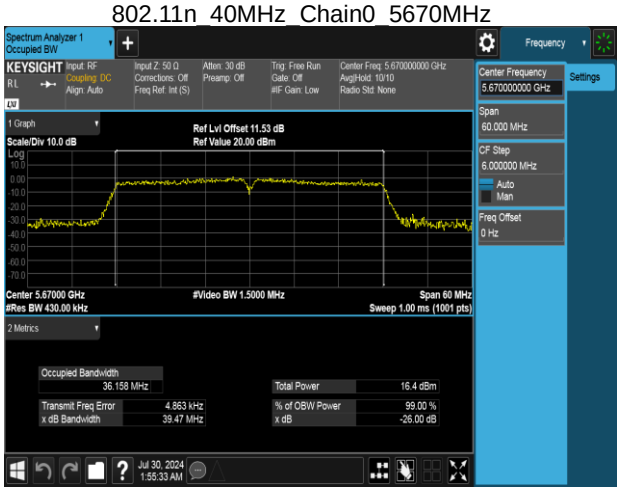
802.11n_40MHz_Chain0_5270MHz



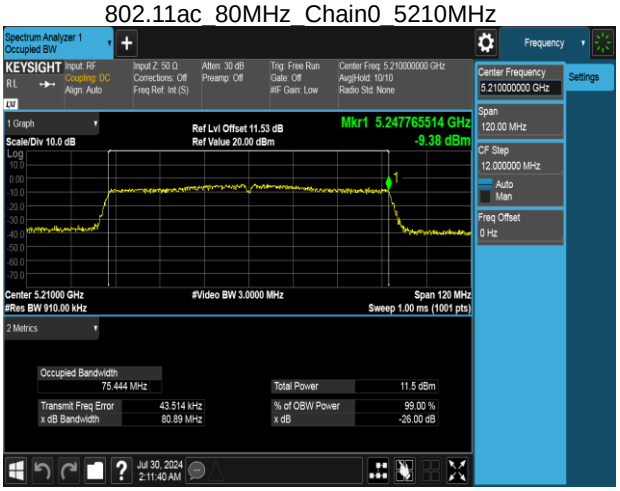
802.11n_40MHz_Chain0_5550MHz



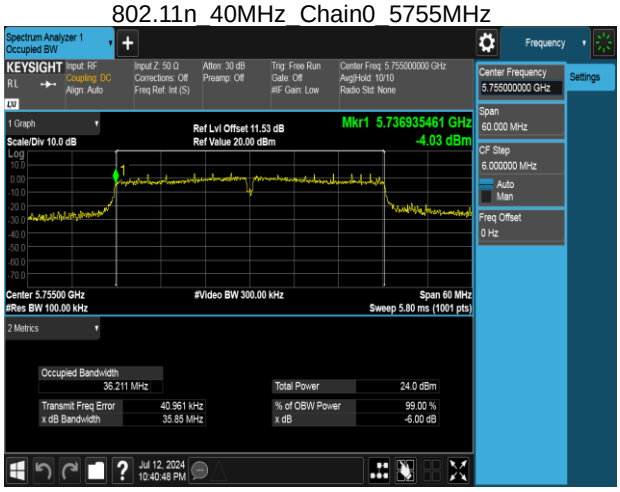
802.11n_40MHz_Chain0_5670MHz



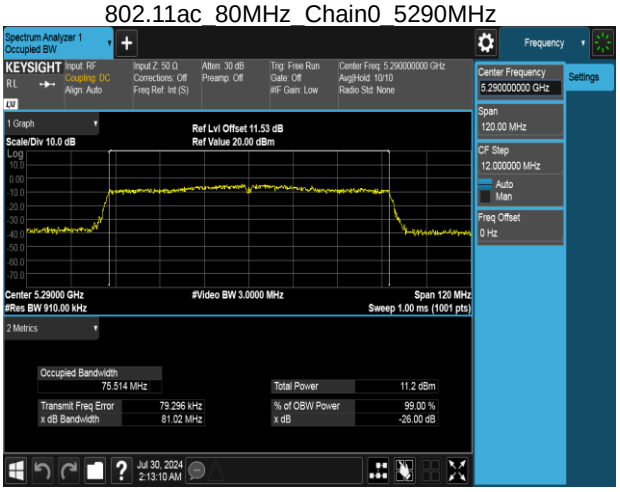
802.11ac_80MHz_Chain0_5210MHz



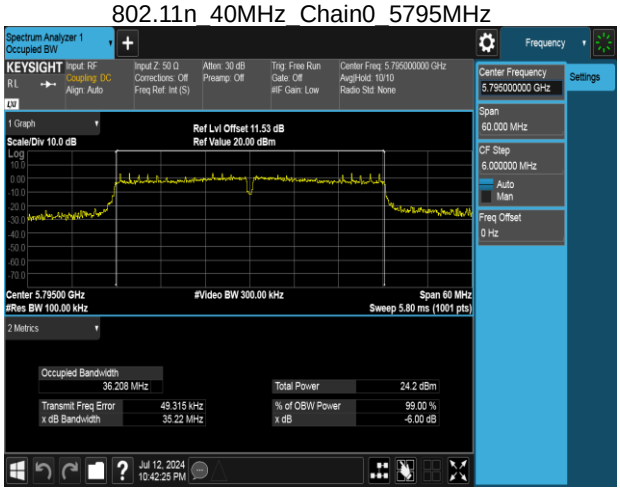
802.11n_40MHz_Chain0_5755MHz



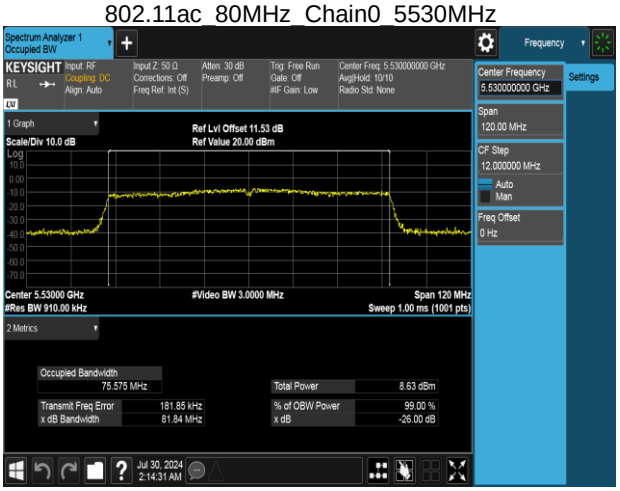
802.11ac_80MHz_Chain0_5290MHz



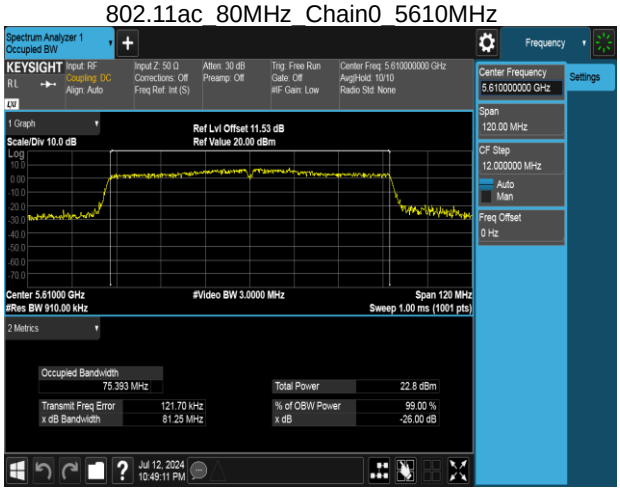
802.11n_40MHz_Chain0_5795MHz



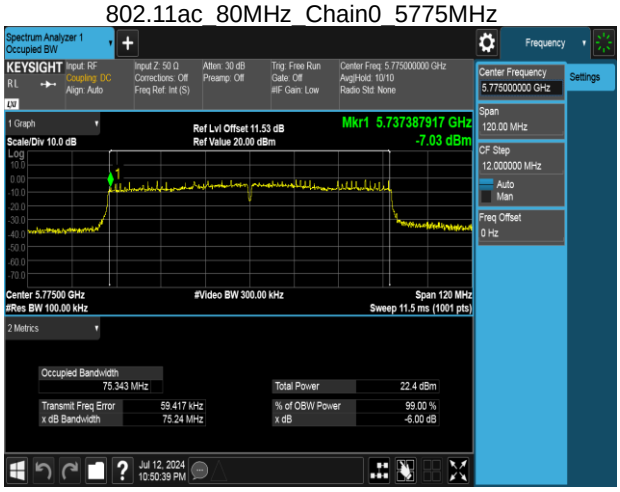
802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5775MHz



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 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.

UNII-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.

UNII-1 Limit	☒ Antenna not exceed 6 dBi：24dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 24 – (DG – 6)]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi：24dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 24 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi：30dBm ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6)]

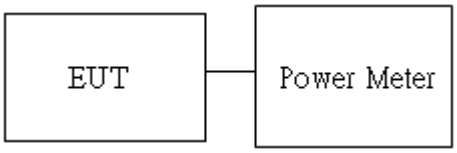
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz, 40MHz and 80MHz.

1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz ,40MHz and 80MHz



4.3.4 Test Result

Temperature:	23.1 ~ 25.2℃	**Test date:**	July 12 ~ August 6, 2024
Humidity:	50 ~ 61% RH	**Tested by:**	Marco Chan

Conducted output power：

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	49	20.162	13.05	23.98	PASS
44	5220	6	70	59.094	17.72	23.98	PASS
48	5240	6	70	61.595	**17.90**	23.98	PASS
52	5260	6	70	59.504	17.75	23.98	PASS
60	5300	6	70	61.453	**17.89**	23.98	PASS
64	5320	6	50	21.955	13.42	23.98	PASS
100	5500	6	32	6.863	8.37	23.98	PASS
116	5580	6	44	13.108	**11.18**	23.98	PASS
140	5700	6	42	10.803	10.34	23.98	PASS
149	5745	6	74	61.453	17.89	30	PASS
157	5785	6	74	59.916	17.78	30	PASS
165	5825	6	76	61.595	**17.90**	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	54	23.958	13.79	23.98	PASS
44	5220	MCS0	73	61.159	17.86	23.98	PASS
48	5240	MCS0	73	61.300	**17.87**	23.98	PASS
52	5260	MCS0	73	60.738	17.83	23.98	PASS
60	5300	MCS0	73	60.878	**17.84**	23.98	PASS
64	5320	MCS0	58	28.672	14.57	23.98	PASS
100	5500	MCS0	34	7.202	8.57	23.98	PASS
116	5580	MCS0	59	29.408	**14.68**	23.98	PASS
140	5700	MCS0	57	26.574	14.24	23.98	PASS
149	5745	MCS0	76	60.043	**17.78**	30	PASS
157	5785	MCS0	65	36.683	15.64	30	PASS
165	5825	MCS0	63	30.794	14.88	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	46	15.401	11.88	23.98	PASS
46	5230	MCS0	73	62.597	**17.97**	23.98	PASS
54	5270	MCS0	74	62.886	**17.99**	23.98	PASS
62	5310	MCS0	56	27.012	14.32	23.98	PASS
102	5510	MCS0	48	17.004	12.31	23.98	PASS
110	5550	MCS0	70	50.764	**17.06**	23.98	PASS
134	5670	MCS0	63	32.851	15.17	23.98	PASS
151	5755	MCS0	76	59.917	17.78	30	PASS
159	5795	MCS0	77	60.194	**17.80**	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	54	22.820	13.58	23.98	PASS
44	5220	MCS0	73	59.473	**17.74**	23.98	PASS
48	5240	MCS0	73	59.064	17.71	23.98	PASS
52	5260	MCS0	73	58.254	17.65	23.98	PASS
60	5300	MCS0	73	58.522	**17.67**	23.98	PASS
64	5320	MCS0	58	26.873	14.29	23.98	PASS
100	5500	MCS0	34	6.673	8.24	23.98	PASS
116	5580	MCS0	59	28.075	**14.48**	23.98	PASS
140	5700	MCS0	57	25.901	14.13	23.98	PASS
149	5745	MCS0	76	58.522	**17.67**	30	PASS
157	5785	MCS0	65	33.988	15.31	30	PASS
165	5825	MCS0	63	29.945	14.76	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	46	15.322	11.85	23.98	PASS
46	5230	MCS0	64	38.843	**15.89**	23.98	PASS
54	5270	MCS0	65	39.474	**15.96**	23.98	PASS
62	5310	MCS0	56	26.811	14.28	23.98	PASS
102	5510	MCS0	48	16.839	12.26	23.98	PASS
110	5550	MCS0	65	38.664	**15.87**	23.98	PASS
134	5670	MCS0	63	32.607	15.13	23.98	PASS
151	5755	MCS0	67	38.487	15.85	30	PASS
159	5795	MCS0	68	39.293	**15.94**	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	41	11.194	**10.49**	23.98	PASS
58	5290	MCS0	42	10.447	**10.19**	23.98	PASS
106	5530	MCS0	30	5.420	7.34	23.98	PASS
122	5610	MCS0	65	38.724	**15.88**	23.98	PASS
155	5775	MCS0	67	38.635	**15.87**	30	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3),

UNII-1 :

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

The maximum power spectral density shall not exceed 11 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.

UNII-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.

UNII-1 Limit	☒ Antenna not exceed 6 dBi：11 dBm/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 17 – (DG – 6) dBm/MHz]
UNII-2a Limit	☒ Antenna not exceed 6 dBi：11 dBm/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 11 – (DG – 6)]
UNII-2c Limit	☒ Antenna not exceed 6 dBi：11 dBm/MHz ☐ Antenna with DG greater than 6 dBi： [Limit = 11 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi：30 dBm/500kHz ☐ Antenna with DG greater than 6 dBi： [Limit = 30 – (DG – 6) dBm/500kHz]

4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1, UNII-2a and UNII-2c, SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 500kHz, VBW = 2MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup

Refer to section 1.8.

4.4.4 Test Result

Temperature: 23.1 ~ 25.2℃ **Test date:** July 12 ~ August 6, 2024

Humidity: 50 ~ 61% RH **Tested by:** Marco Chan

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-1.817	0.21	-1.61		11.00 dBm/MHz	-12.61
5220	7.967	0.21	8.18		11.00 dBm/MHz	-2.82
5240	8.233	0.21	8.44		11.00 dBm/MHz	-2.56
5260	8.082	0.21	8.29		11.00 dBm/MHz	-2.71
5300	7.577	0.21	7.79		11.00 dBm/MHz	-3.21
5320	-2.600	0.21	-2.39		11.00 dBm/MHz	-13.39
5500	-7.138	0.21	-6.93		11.00 dBm/MHz	-17.93
5580	-3.168	0.21	-2.96		11.00 dBm/MHz	-13.96
5700	-4.723	0.21	-4.51		11.00 dBm/MHz	-15.51
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	3.221	0.21	2.22	5.65	30.00 dBm/500kHz	-24.35
5785	3.301	0.21	2.22	5.73	30.00 dBm/500kHz	-24.27
5825	3.561	0.21	2.22	5.99	30.00 dBm/500kHz	-24.01

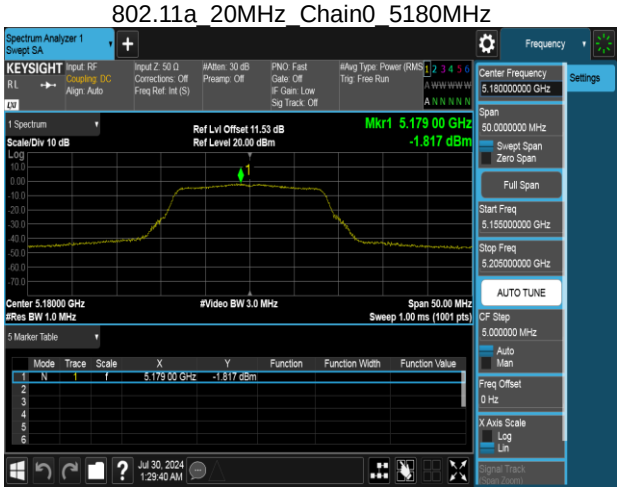
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-0.958	0.22	-0.74		11.00 dBm/MHz	-11.74
5220	7.883	0.22	8.10		11.00 dBm/MHz	-2.90
5240	7.650	0.22	7.87		11.00 dBm/MHz	-3.13
5260	7.775	0.22	8.00		11.00 dBm/MHz	-3.01
5300	7.535	0.22	7.76		11.00 dBm/MHz	-3.25
5320	-1.312	0.22	-1.09		11.00 dBm/MHz	-12.09
5500	-7.302	0.22	-7.08		11.00 dBm/MHz	-18.08
5580	-0.103	0.22	0.12		11.00 dBm/MHz	-10.88
5700	-0.919	0.22	-0.70		11.00 dBm/MHz	-11.70
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	3.072	0.22	2.22	5.51	30.00 dBm/500kHz	-24.49
5785	-3.823	0.22	2.22	-1.38	30.00 dBm/500kHz	-31.38
5825	-4.528	0.22	2.22	-2.09	30.00 dBm/500kHz	-32.09

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-6.621	0.45	-6.17		11.00 dBm/MHz	-17.17
5230	4.844	0.45	5.29		11.00 dBm/MHz	-5.71
5270	4.429	0.45	4.88		11.00 dBm/MHz	-6.12
5310	-4.963	0.45	-4.51		11.00 dBm/MHz	-15.51
5510	-6.587	0.45	-6.14		11.00 dBm/MHz	-17.14
5550	-1.427	0.45	-0.98		11.00 dBm/MHz	-11.98
5670	-2.864	0.45	-2.41		11.00 dBm/MHz	-13.41
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-0.296	0.45	2.22	2.37	30.00 dBm/500kHz	-27.63
5795	-0.099	0.45	2.22	2.57	30.00 dBm/500kHz	-27.43

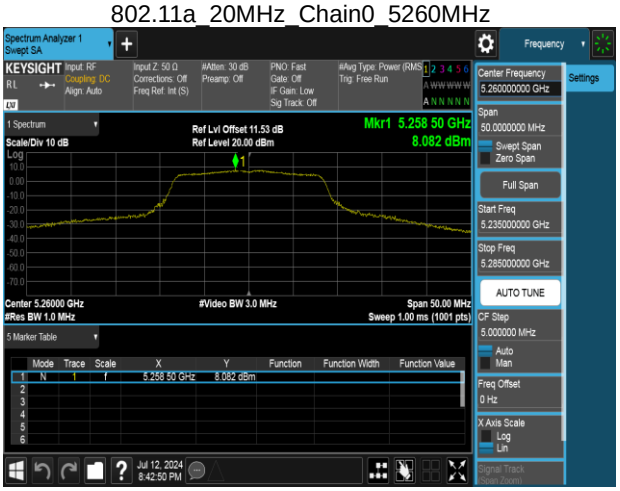
POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-6.014	0.87	-5.14		11.00 dBm/MHz	-16.14
5290	-6.858	0.87	-5.99		11.00 dBm/MHz	-16.99
5530	-9.019	0.87	-8.15		11.00 dBm/MHz	-19.15
5610	-0.622	0.87	0.25		11.00 dBm/MHz	-10.75
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-5.748	0.87	2.22	-2.66	30.00 dBm/500kHz	-32.66

Test Data

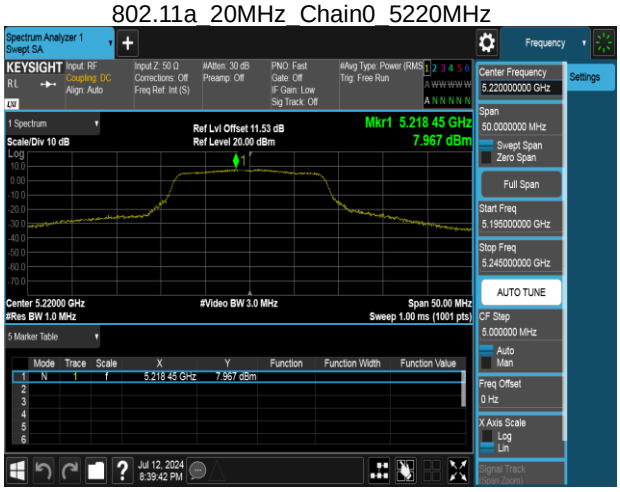
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz

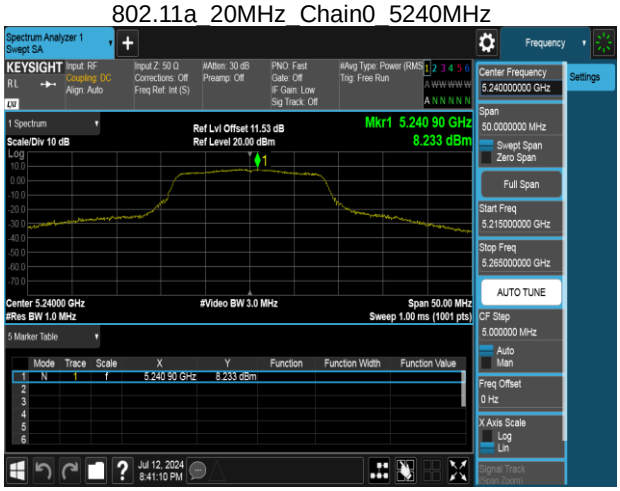


802.11a_20MHz_Chain0_5220MHz



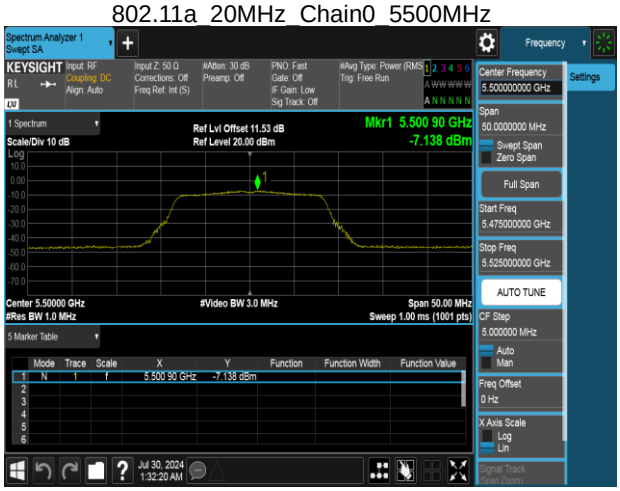
802.11a_20MHz_Chain0_5300MHz

802.11a_20MHz_Chain0_5240MHz

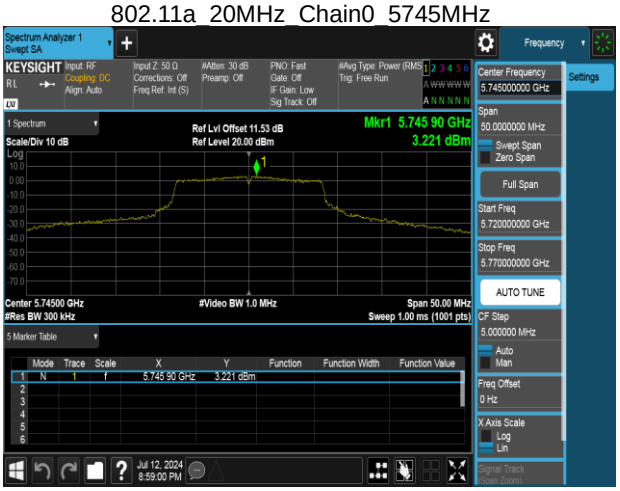


802.11a_20MHz_Chain0_5320MHz

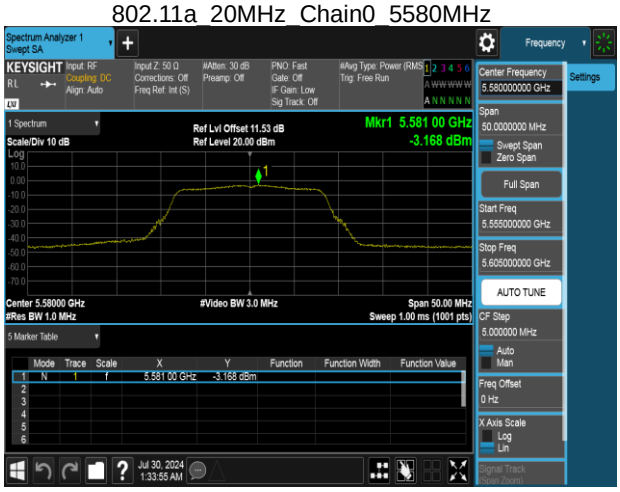
802.11a_20MHz_Chain0_5500MHz



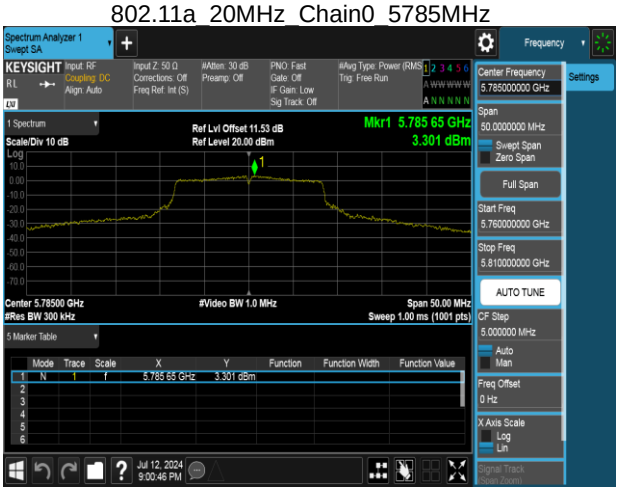
802.11a_20MHz_Chain0_5745MHz



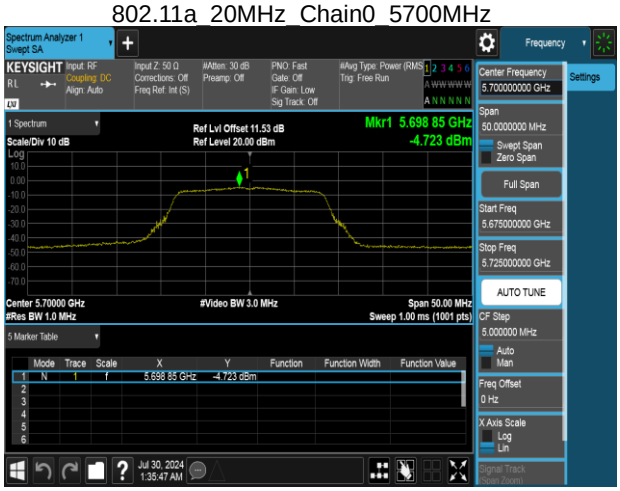
802.11a_20MHz_Chain0_5580MHz



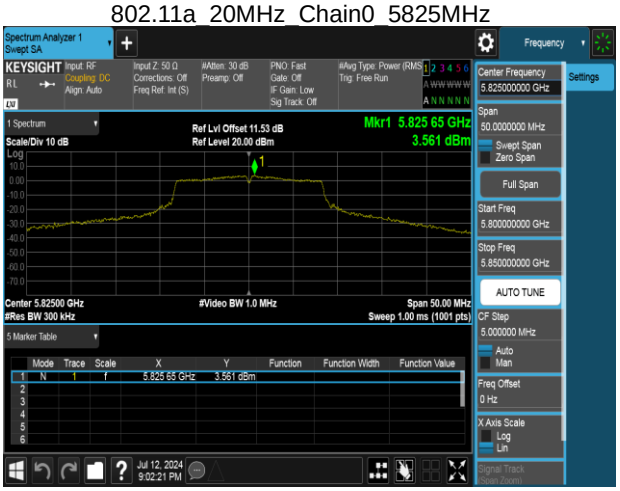
802.11a_20MHz_Chain0_5785MHz



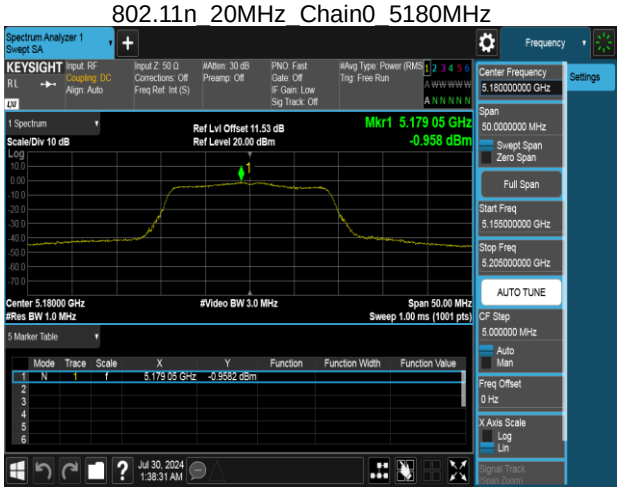
802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5825MHz

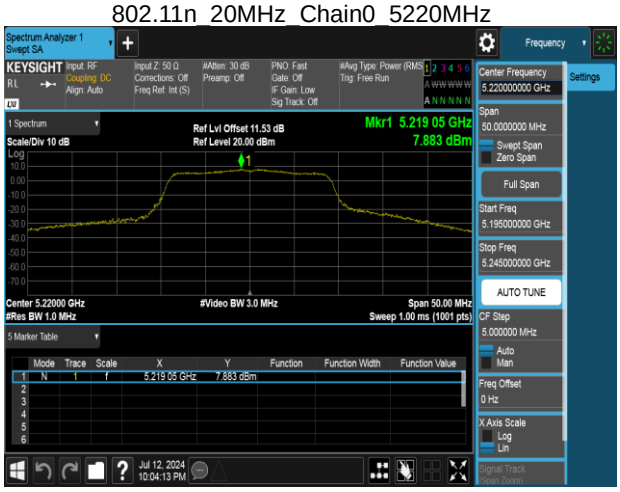


802.11n_20MHz_Chain0_5180MHz



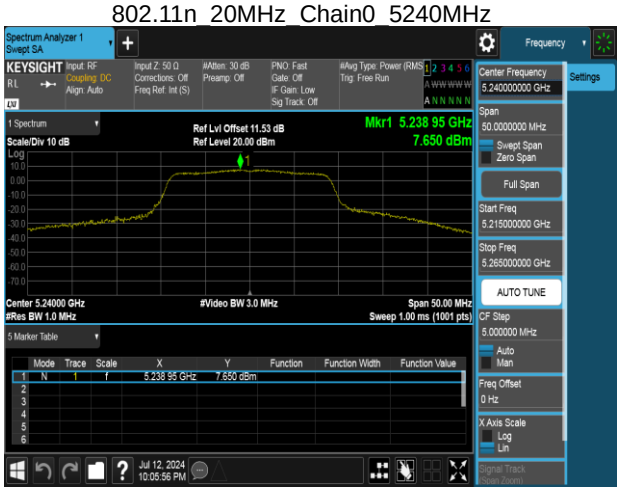
802.11n_20MHz_Chain0_5260MHz

802.11n_20MHz_Chain0_5220MHz



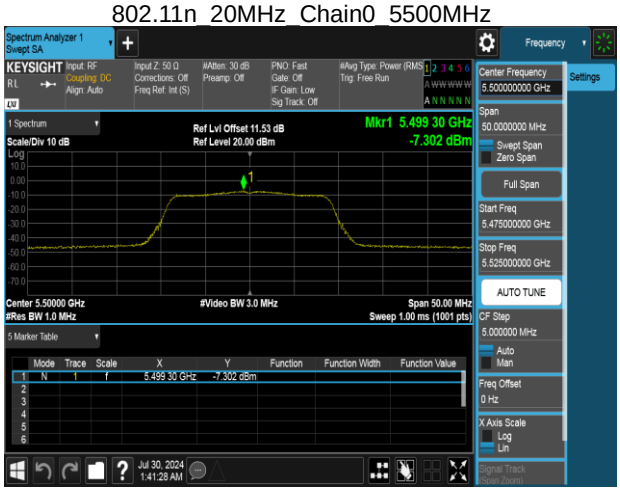
802.11n_20MHz_Chain0_5300MHz

802.11n_20MHz_Chain0_5240MHz

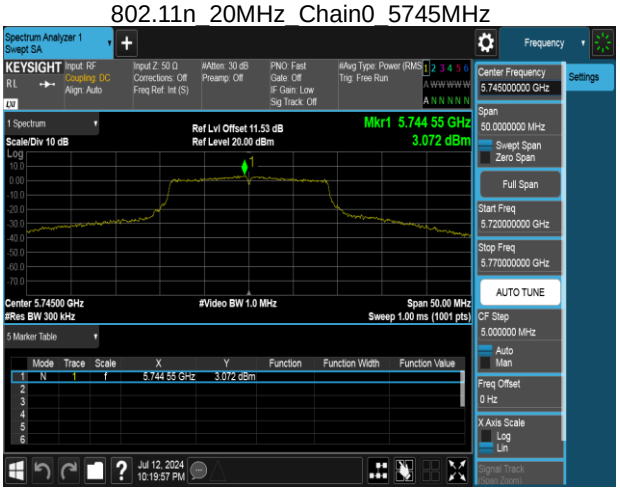


802.11n_20MHz_Chain0_5320MHz

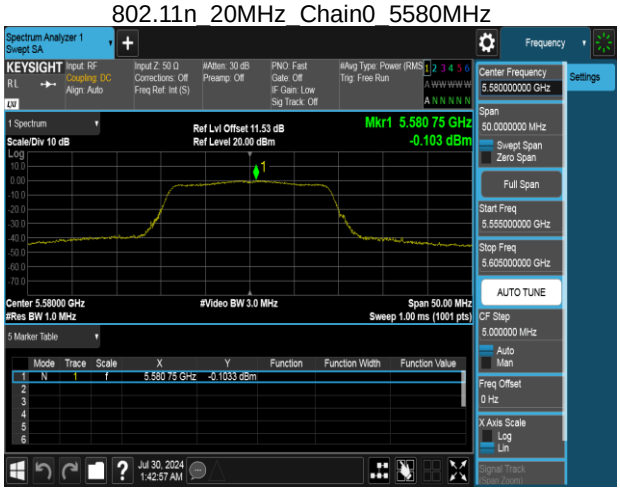
802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5745MHz

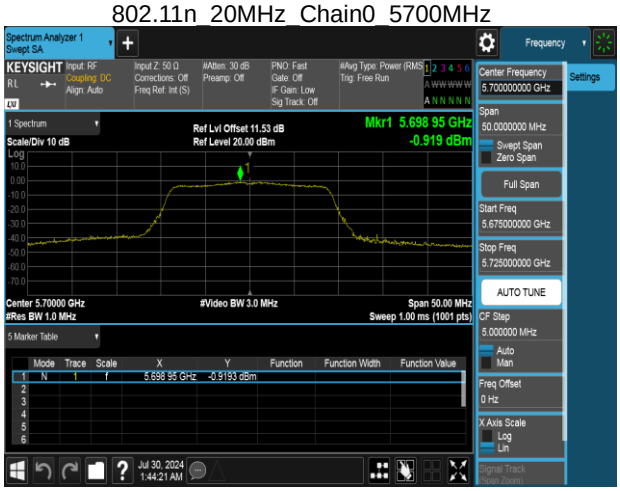


802.11n_20MHz_Chain0_5580MHz

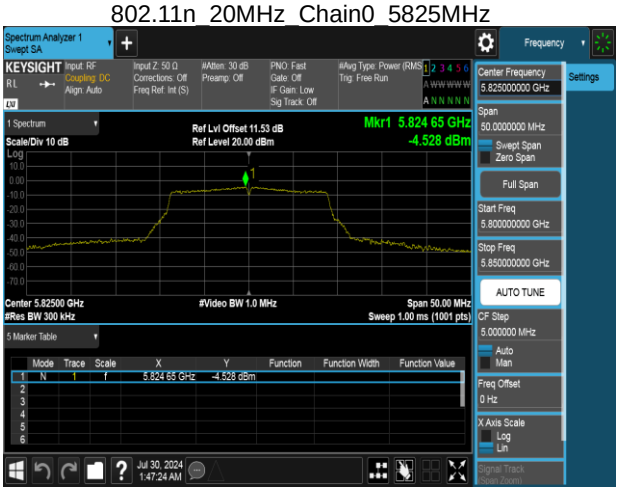


802.11n_20MHz_Chain0_5785MHz

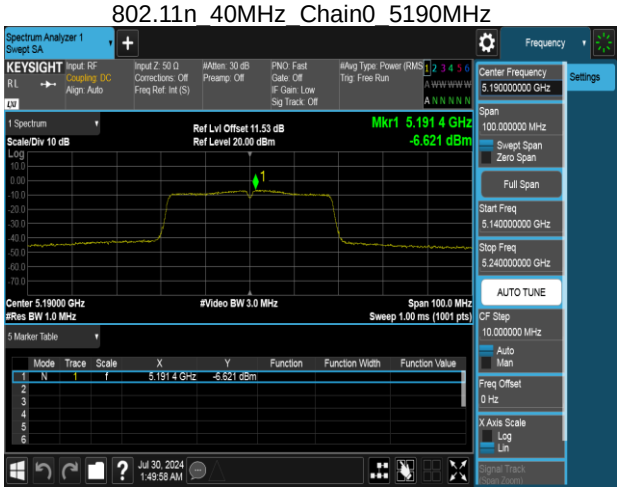
802.11n_20MHz_Chain0_5700MHz



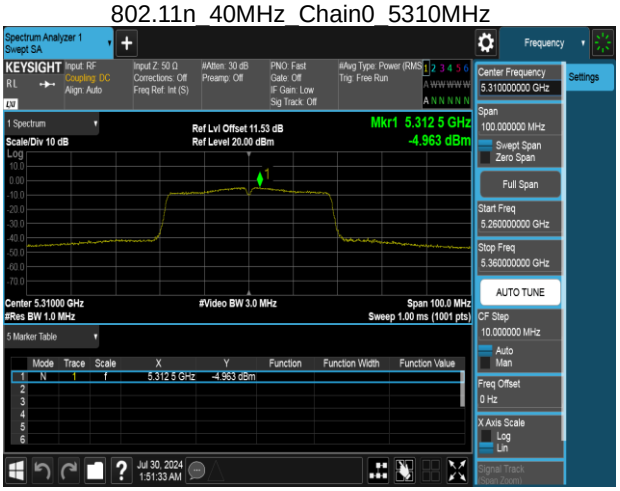
802.11n_20MHz_Chain0_5825MHz



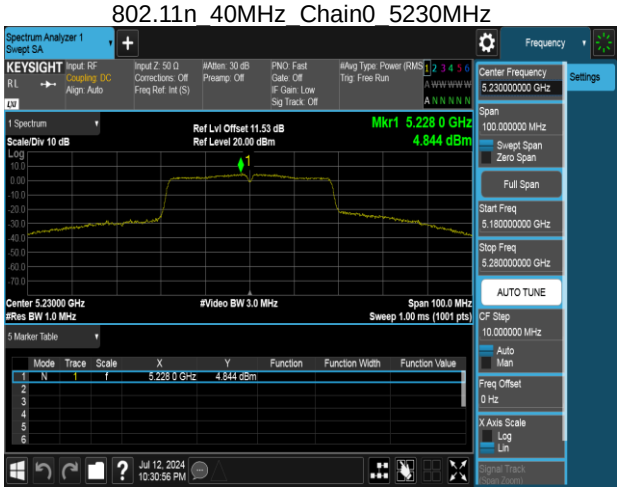
802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

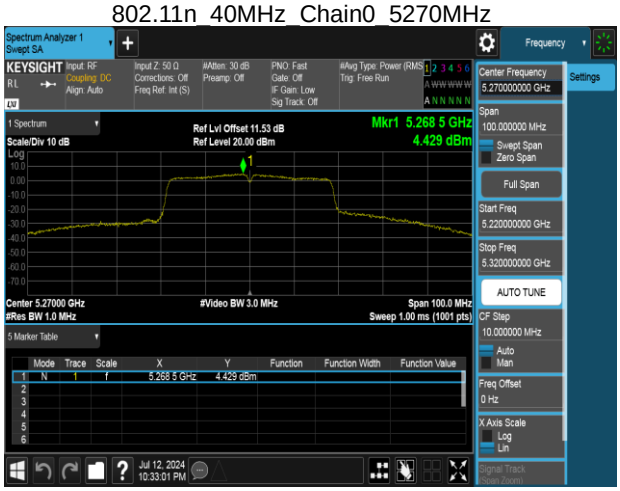


802.11n_40MHz_Chain0_5230MHz



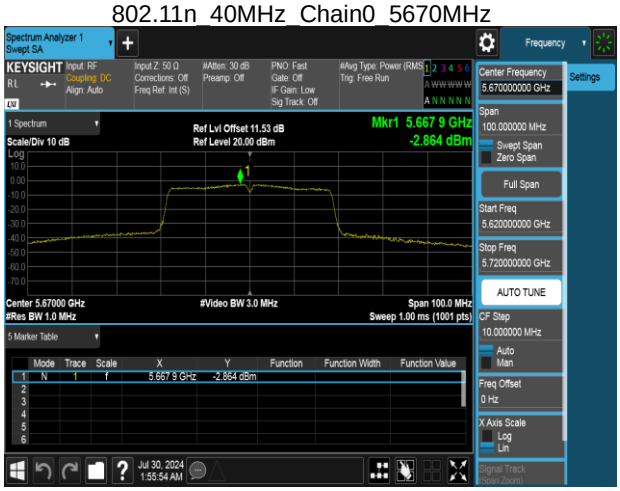
802.11n_40MHz_Chain0_5510MHz

802.11n_40MHz_Chain0_5270MHz

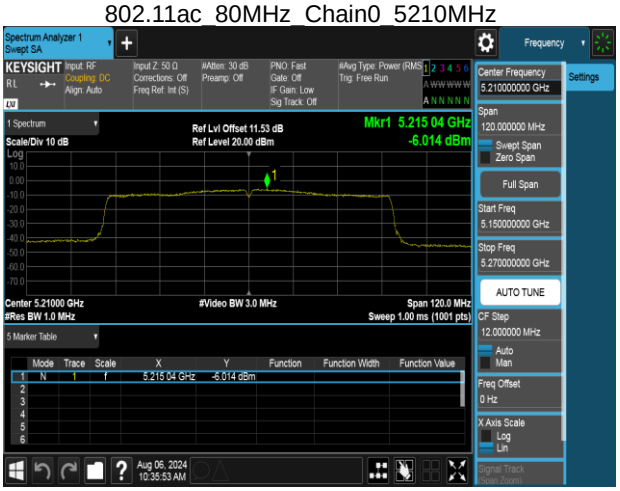


802.11n_40MHz_Chain0_5550MHz

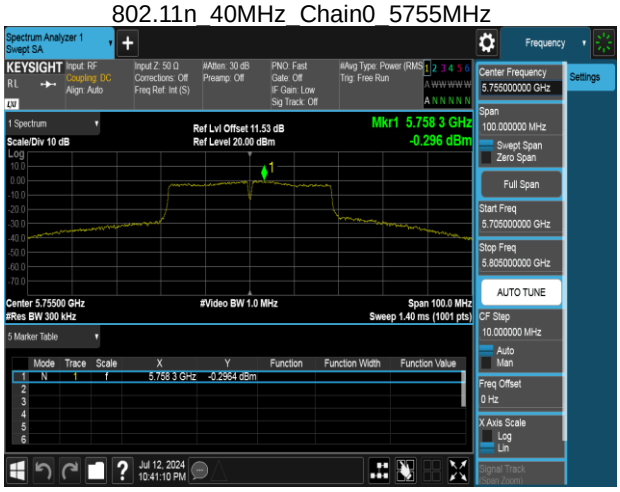
802.11n_40MHz_Chain0_5670MHz



802.11ac_80MHz_Chain0_5210MHz

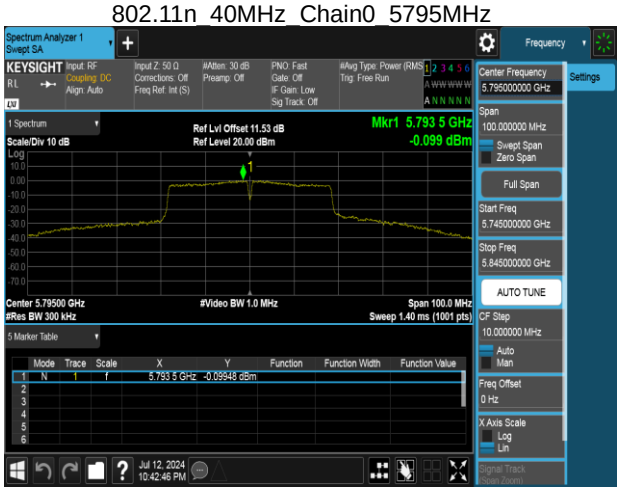


802.11n_40MHz_Chain0_5755MHz

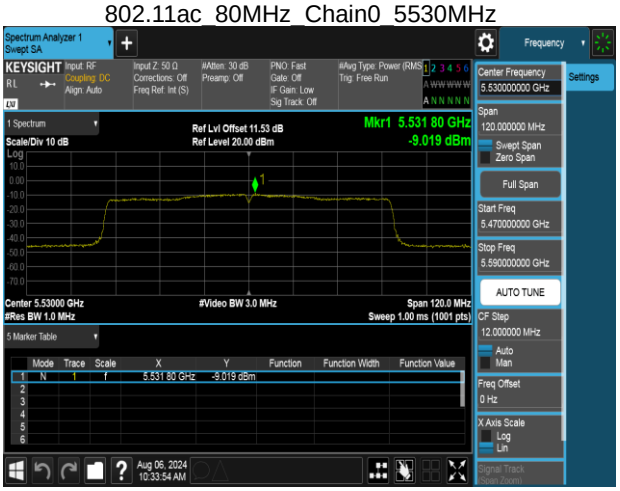


802.11ac_80MHz_Chain0_5290MHz

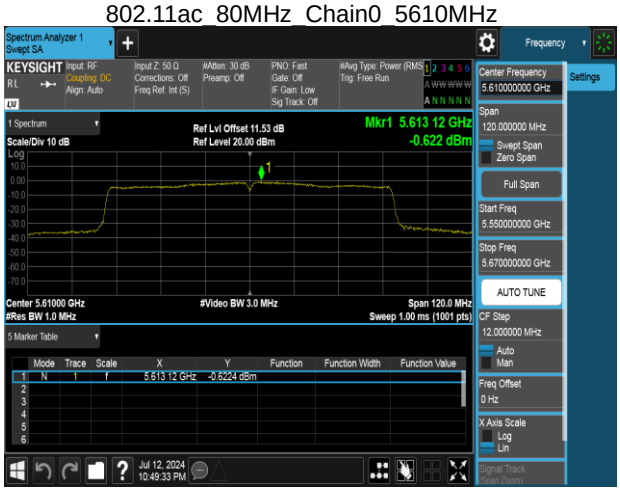
802.11n_40MHz_Chain0_5795MHz



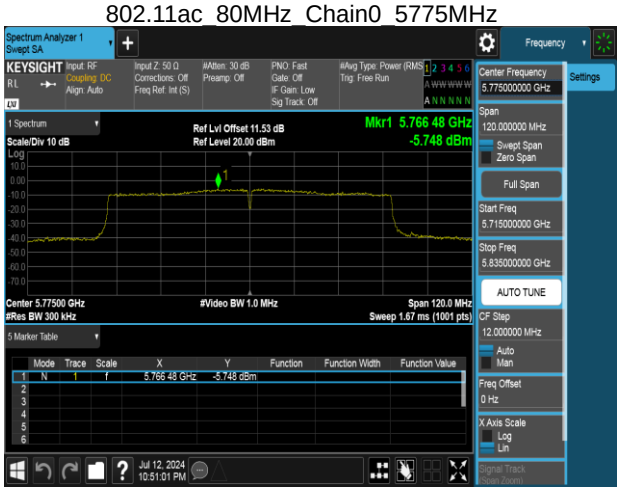
802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5775MHz



4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

FCC according to §15.407, §15.209 and §15.205,

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

UNII-1 :

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

UNII-2a and 2c :

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

UNII-3:

All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 40GHz set to the low, Mid and High channels with the EUT transmit.

4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

5. The SA setting following：

(1) Below 30MHz：

(1.1) 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO

(1.2) 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO

(2) 30MHz to 1GHz：RBW = 100kHz, VBW ≥ 3*RBW, Sweep = Auto,

Detector = Peak, Trace = Max hold.

(3) Above 1GHz：

(3.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(3.2) For Average measurement：RBW = 1MHz, VBW

˙If Duty Cycle ≥ 98%, VBW=10Hz.

˙If Duty Cycle < 98%, VBW=1/T.

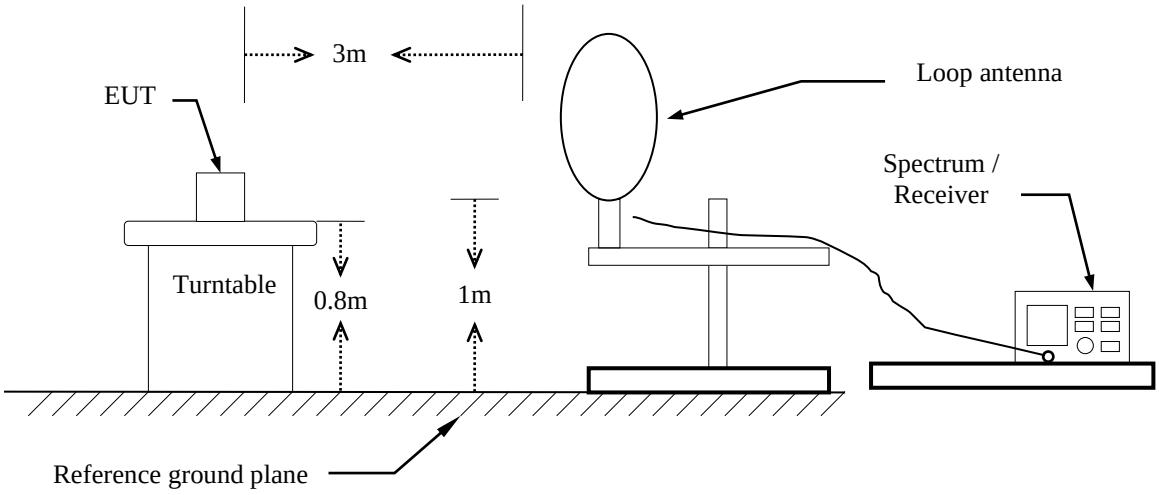
6. Data result：

Actual FS=Spectrum Reading Level + Factor

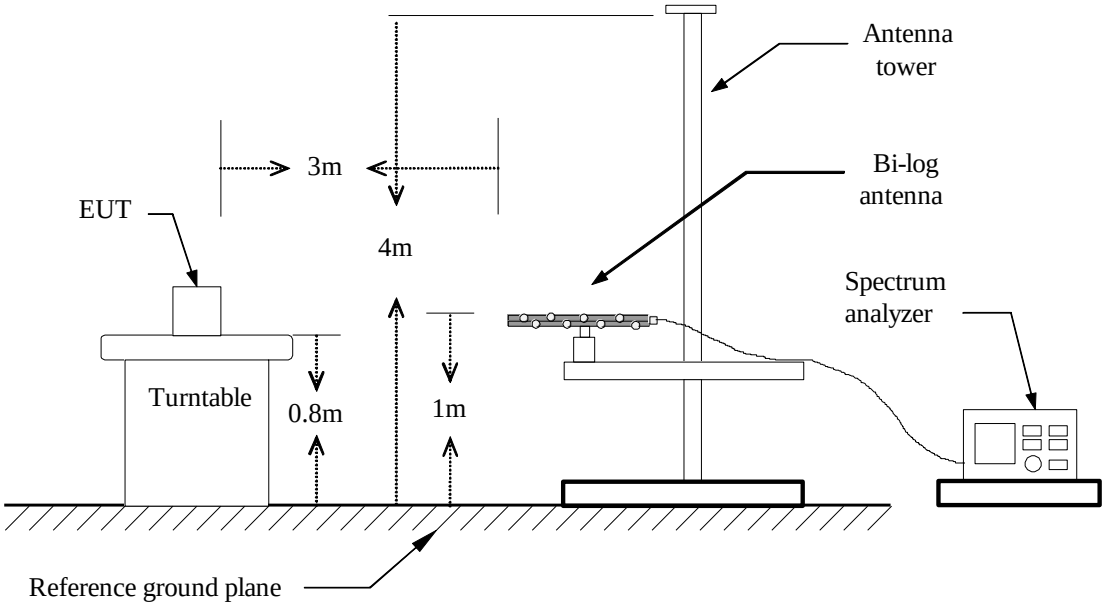
Margin=Actual FS- Limit

4.5.3 Test Setup

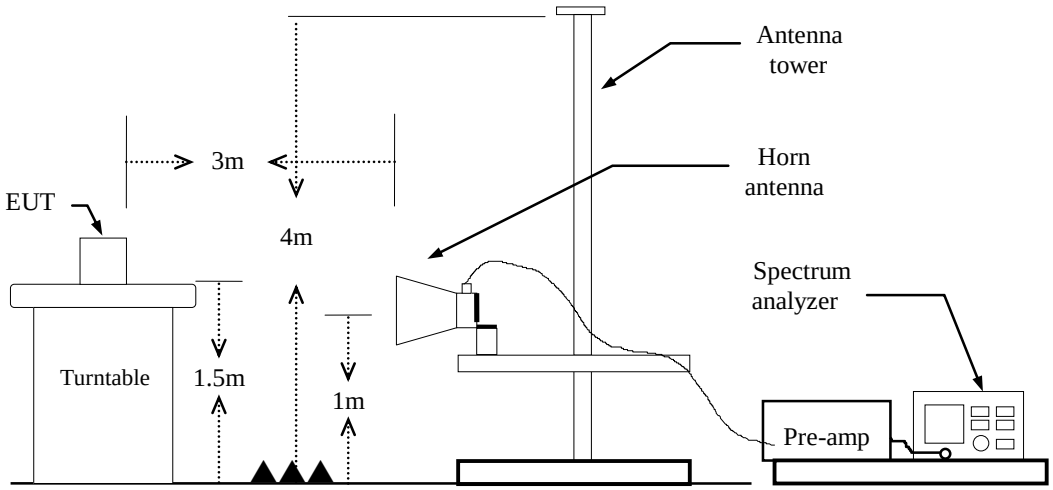
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

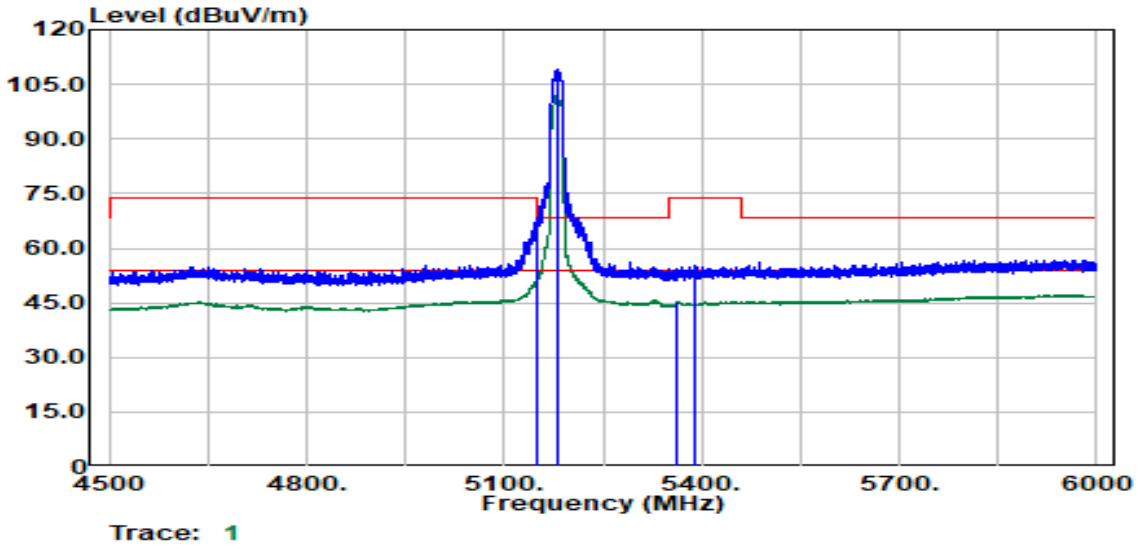


4.5.4 Test Result

Test Data

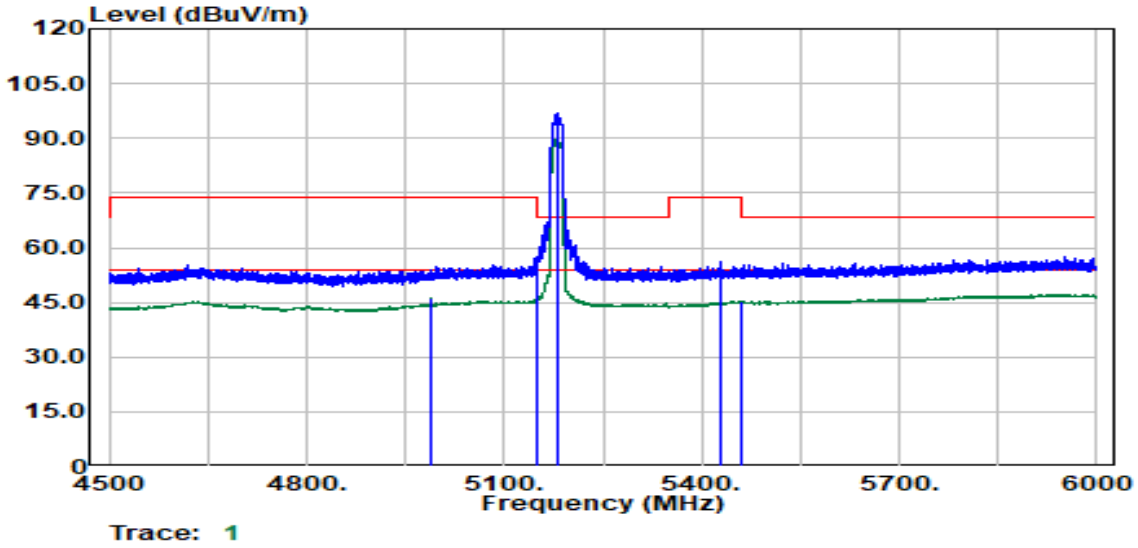
Band Edge

Project No.	:TM-2407000112P	Test Date	:2024-07-16
Operation Band	:802.11a/Band1	Temp./Humi.	:24.6/57
Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:49		



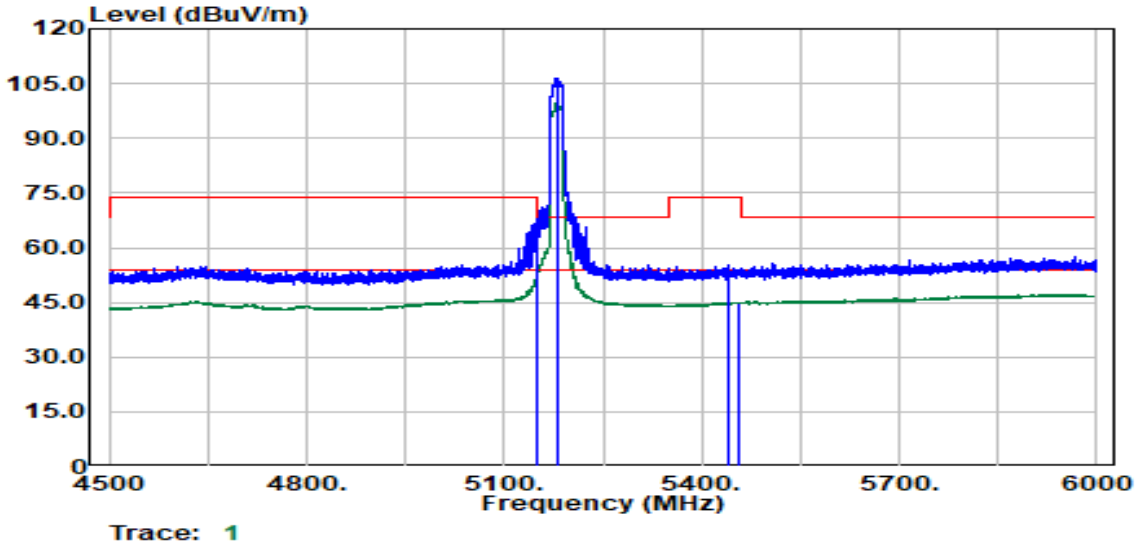
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.93	Peak	54.55	13.73	68.28	74.00	-5.72
5149.93	Average	37.76	13.73	51.49	54.00	-2.51
5180.00	Peak	95.20	13.81	109.00	- -	- -
5180.00	Average	88.07	13.81	101.87	- -	- -
5363.82	Average	31.29	13.95	45.24	54.00	-8.76
5389.56	Peak	41.11	14.01	55.12	74.00	-18.88

Project No.	:TM-2407000112P	Test Date	:2024-07-16
Operation Band	:802.11a/Band1	Temp./Humi.	:24.6/57
Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:49		



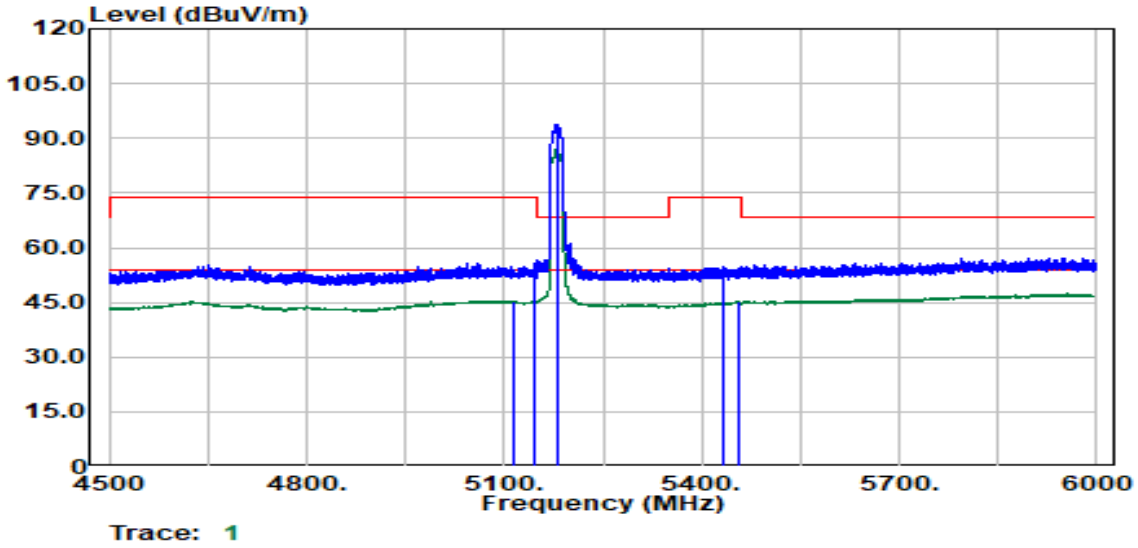
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4988.26	Average	32.91	13.23	46.15	54.00	-7.85
5149.43	Peak	43.81	13.73	57.54	74.00	-16.46
5180.00	Peak	82.97	13.81	96.78	- -	- -
5180.00	Average	76.21	13.81	90.02	- -	- -
5428.04	Peak	41.73	14.25	55.98	74.00	-18.02
5459.27	Average	30.78	14.39	45.17	54.00	-8.83

Project No.	:TM-2407000112P	Test Date	:2024-07-16
Operation Band	:802.11n20/Band1	Temp./Humi.	:24.6/57
Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:54		



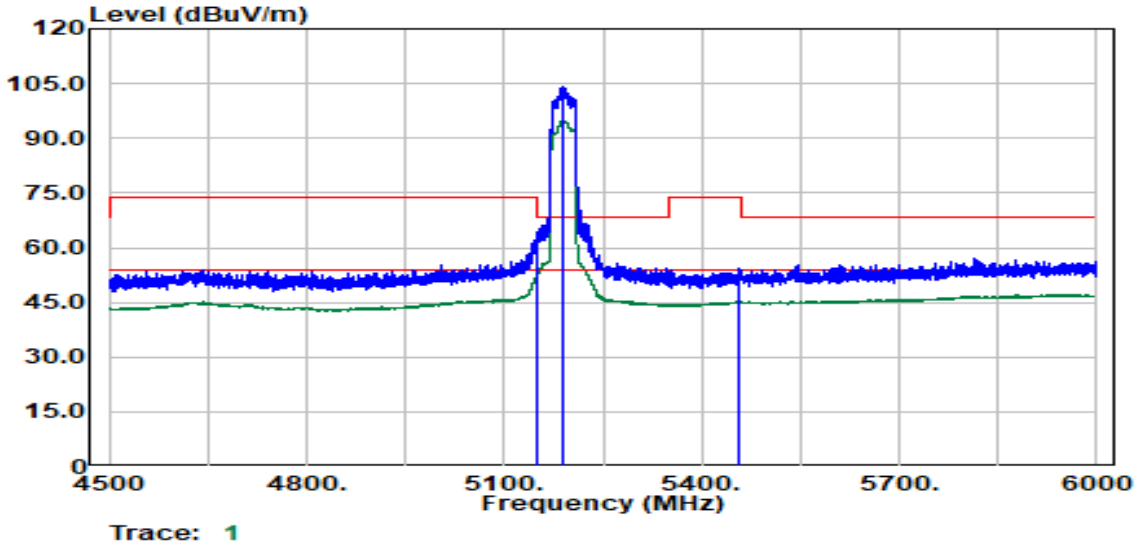
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5148.93	Average	38.62	13.73	52.35	54.00	-1.65
5149.68	Peak	54.32	13.73	68.05	74.00	-5.95
5180.00	Peak	92.80	13.81	106.60	- -	- -
5180.00	Average	86.12	13.81	99.93	- -	- -
5440.78	Peak	41.00	14.35	55.35	74.00	-18.65
5455.27	Average	30.59	14.40	44.99	54.00	-9.01

Project No.	:TM-2407000112P	Test Date	:2024-07-16
Operation Band	:802.11n20/Band1	Temp./Humi.	:24.6/57
Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:54		



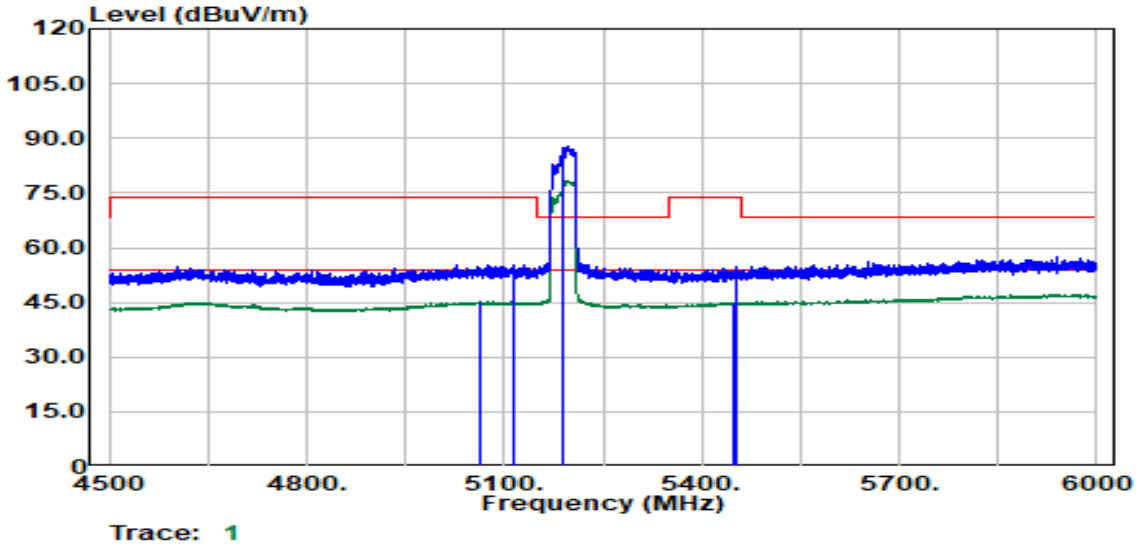
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5115.60	Average	31.68	13.74	45.43	54.00	-8.57
5146.11	Peak	42.09	13.73	55.82	74.00	-18.18
5180.00	Peak	80.02	13.81	93.83	- -	- -
5180.00	Average	73.31	13.81	87.12	- -	- -
5432.66	Peak	40.50	14.28	54.79	74.00	-19.21
5457.16	Average	30.81	14.39	45.21	54.00	-8.79

Project No.	:TM-2407000112P	Test Date	:2024-07-17
Operation Band	:802.11n40/Band1	Temp./Humi.	:24.6/57
Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E1	Test Chamber	: 966A
Setting	:46		



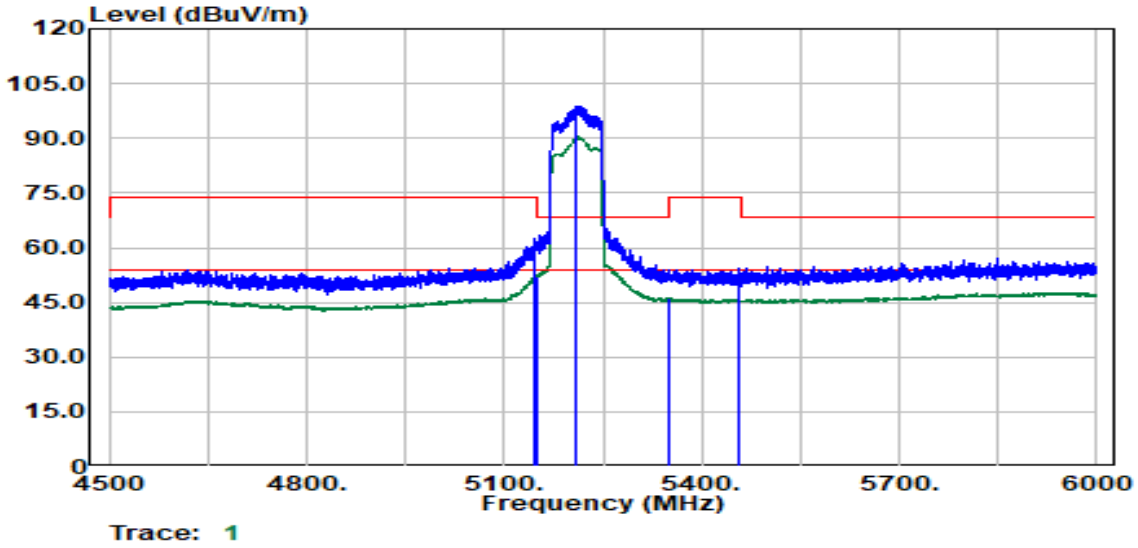
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.86	Peak	48.46	13.73	62.19	74.00	-11.81
5150.00	Average	38.89	13.73	52.62	54.00	-1.38
5190.00	Peak	90.17	13.83	104.00	- -	- -
5190.00	Average	81.05	13.83	94.88	- -	- -
5454.91	Average	30.72	14.40	45.12	54.00	-8.88
5458.16	Peak	39.78	14.39	54.17	74.00	-19.83

Project No.	:TM-2407000112P	Test Date	:2024-07-17
Operation Band	:802.11n40/Band1	Temp./Humi.	:24.6/57
Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E1	Test Chamber	: 966A
Setting	:46		



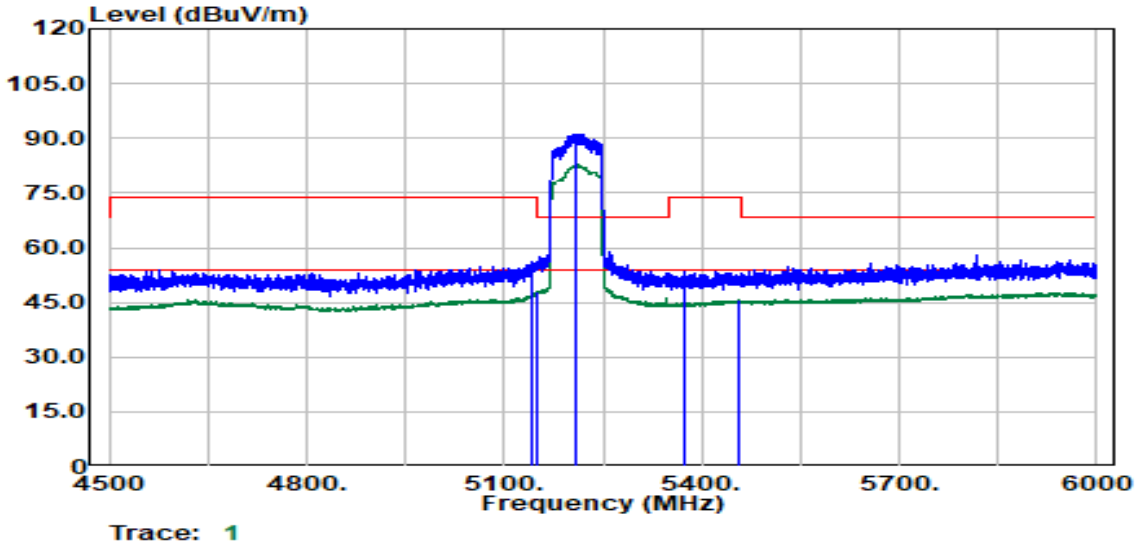
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5062.84	Average	31.47	13.68	45.15	54.00	-8.85
5113.35	Peak	41.53	13.74	55.28	74.00	-18.72
5190.00	Peak	74.20	13.83	88.03	- -	- -
5190.00	Average	64.53	13.83	78.36	- -	- -
5447.66	Average	30.63	14.40	45.02	54.00	-8.98
5450.91	Peak	40.59	14.41	55.01	74.00	-18.99

Project No.	:TM-2407000112P	Test Date	:2024-07-17
Operation Band	:802.11ac80/Band1	Temp./Humi.	:24.6/57
Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E1	Test Chamber	: 966A
Setting	:41		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5147.11	Peak	48.75	13.73	62.48	74.00	-11.52
5149.11	Average	38.57	13.73	52.30	54.00	-1.70
5210.00	Peak	84.93	13.87	98.80	- -	- -
5210.00	Average	76.57	13.87	90.44	- -	- -
5351.89	Average	32.17	13.92	46.09	54.00	-7.91
5458.16	Peak	39.78	14.39	54.17	74.00	-19.83

Project No.	:TM-2407000112P	Test Date	:2024-07-17
Operation Band	:802.11ac80/Band1	Temp./Humi.	:24.6/57
Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Tony Chao
EUT Pol	:E1	Test Chamber	: 966A
Setting	:41		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5143.11	Peak	42.60	13.73	56.33	74.00	-17.67
5150.00	Average	34.11	13.73	47.84	54.00	-6.16
5210.00	Peak	77.33	13.87	91.20	- -	- -
5210.00	Average	69.10	13.87	82.97	- -	- -
5373.90	Peak	39.37	13.97	53.34	74.00	-20.66
5455.66	Average	31.11	14.40	45.51	54.00	-8.49