

Test mode: 802.11ac		Frequency(MHz): 5745					
Mode: SISO antenna 0		Test By: XW					
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
10416.26	V	56.19	45.35	74	54	-17.81	-8.65
14594.94	V	57.57	46.87	74	54	-16.43	-7.13
16954.63	V	59.20	48.79	74	54	-14.8	-5.21
9371.99	H	54.23	43.25	74	54	-19.77	-10.75
11397.61	H	56.91	45.96	74	54	-17.09	-8.04
15254.85	H	58.87	47.25	74	54	-15.13	-6.75

Test mode: 802.11ac		Frequency(MHz): 5785					
Mode: SISO antenna 0		Test By: XW					
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
10049.55	V	55.30	45.33	74	54	-18.7	-8.67
15184.47	V	59.25	48.96	74	54	-14.75	-5.04
17935.08	V	60.36	49.12	74	54	-13.64	-4.88
10094.67	H	55.70	45.29	74	54	-18.3	-8.71
12570.93	H	57.04	46.78	74	54	-16.96	-7.22
17045.53	H	59.49	48.05	74	54	-14.51	-5.95

Test mode: 802.11ac		Frequency(MHz): 5825					
Mode: SISO antenna 0		Test By: XW					
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
10499.39	V	55.53	45.27	74	54	-18.47	-8.73
14360.61	V	58.09	47.32	74	54	-15.91	-6.68
17726.36	V	59.90	48.19	74	54	-14.1	-5.81
11098.52	H	56.37	45.39	74	54	-17.63	-8.61
15031.63	H	58.48	47.51	74	54	-15.52	-6.49
17517.53	H	60.76	49.35	74	54	-13.24	-4.65

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4)Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Test mode:	802.11n40	Frequency(MHz):	5755
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7980.77	V	57.69	-37.54	-27	-10.54
11513.36	V	53.16	-42.07	-27	-15.07
17268.71	V	50.45	-44.78	-27	-17.78
7877.62	H	57.26	-37.97	-27	-10.97
11510.29	H	52.11	-43.12	-27	-16.12
17265.16	H	53.35	-41.88	-27	-14.88

Test mode:	802.11n40	Frequency(MHz):	5795
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7618.51	V	55.83	-39.40	-27	-12.40
11593.37	V	50.70	-44.53	-27	-17.53
17388.19	V	51.55	-43.68	-27	-16.68
7861.81	H	56.41	-38.82	-27	-11.82
11590.82	H	52.48	-42.75	-27	-15.75
17385.26	H	53.38	-41.85	-27	-14.85

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

Test mode: 802.11n40		Frequency(MHz): 5755					
Mode: MIMO		Test By: XW					
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
7980.77	V	57.69	47.62	74	54	-16.31	-6.38
11513.36	V	53.16	43.25	74	54	-20.84	-10.75
17268.71	V	50.45	40.48	74	54	-23.55	-13.52
7877.62	H	57.26	46.22	74	54	-16.74	-7.78
11510.29	H	52.11	44.20	74	54	-21.89	-9.8
17265.16	H	53.35	42.6	74	54	-20.65	-11.4

Test mode: 802.11n40		Frequency(MHz): 5795					
Mode: MIMO		Test By: XW					
Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
7618.51	V	55.83	45.8	74	54	-18.17	-8.2
11593.37	V	50.7	44.57	74	54	-23.3	-9.43
17388.19	V	51.55	40.07	74	54	-22.45	-13.93
7861.81	H	56.41	47.28	74	54	-17.59	-6.72
11590.82	H	52.48	44.72	74	54	-21.52	-9.28
17385.26	H	53.38	41.87	74	54	-20.62	-12.13

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4)Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Test mode:	802.11ac80	Frequency(MHz):	5775
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7778.51	V	56.28	-38.95	-27	-11.95
11553.68	V	53.24	-41.99	-27	-14.99
17328.71	V	53.83	-41.40	-27	-14.40
7748.74	H	57.22	-38.01	-27	-11.01
11550.36	H	51.90	-43.33	-27	-16.33
17325.59	H	52.60	-42.63	-27	-15.63

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:	802.11ac80	Frequency(MHz):	5775
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin (dB)	
		PK	AV	PK	AV	PK	AV
7778.51	V	56.28	46.42	74	54	-17.72	-7.58
11553.68	V	53.24	44.86	74	54	-20.76	-9.14
17328.71	V	53.83	42.13	74	54	-20.17	-11.87
7748.74	H	57.22	45.99	74	54	-16.78	-8.01
11550.36	H	51.90	44.2	74	54	-22.1	-9.8
17325.59	H	52.60	42.47	74	54	-21.4	-11.53

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4)Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- Undesirable radiated Spurious Emission in band edge
 The 802.11a/n/ac SISO and MIMO modes have been tested and the worst case mode recorded as below:

Test mode:	802.11ac	Frequency:	5745
Mode:	SISO antenna 0	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5724.62	H	63.26	-28.79	28.56	PASS
5724.50	V	66.44	-31.97	28.92	PASS

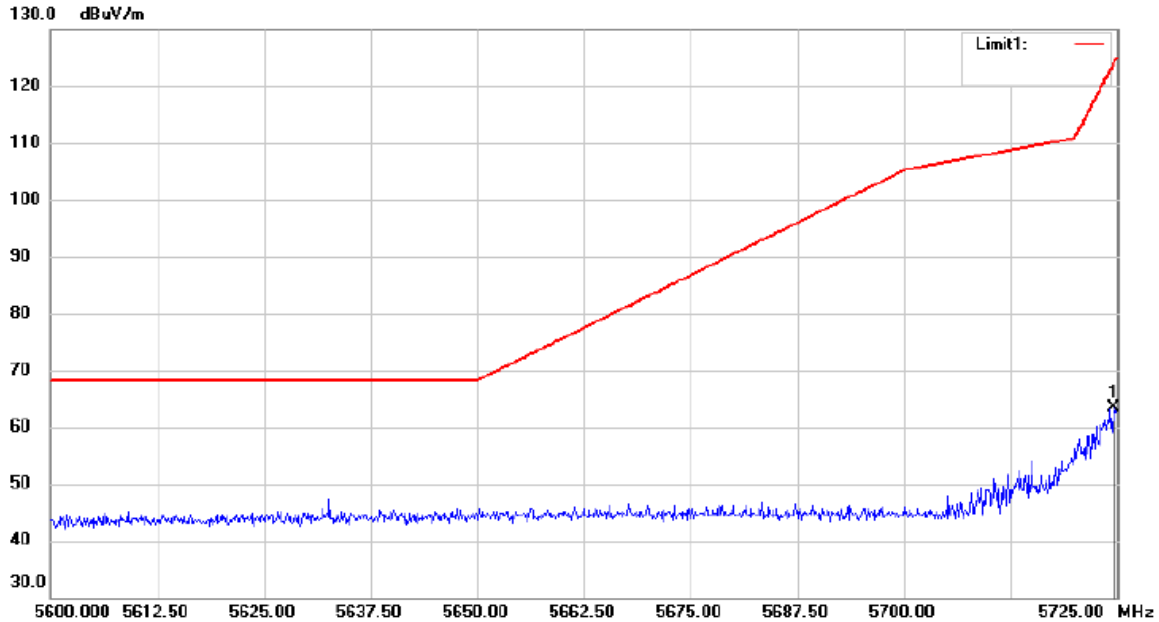
Test mode:	802.11ac	Frequency:	5825
Mode:	SISO antenna 0	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5852.64	V	57.01	-38.22	22.40	PASS
5852.04	H	55.62	-39.61	24.12	PASS

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

U-NII -3

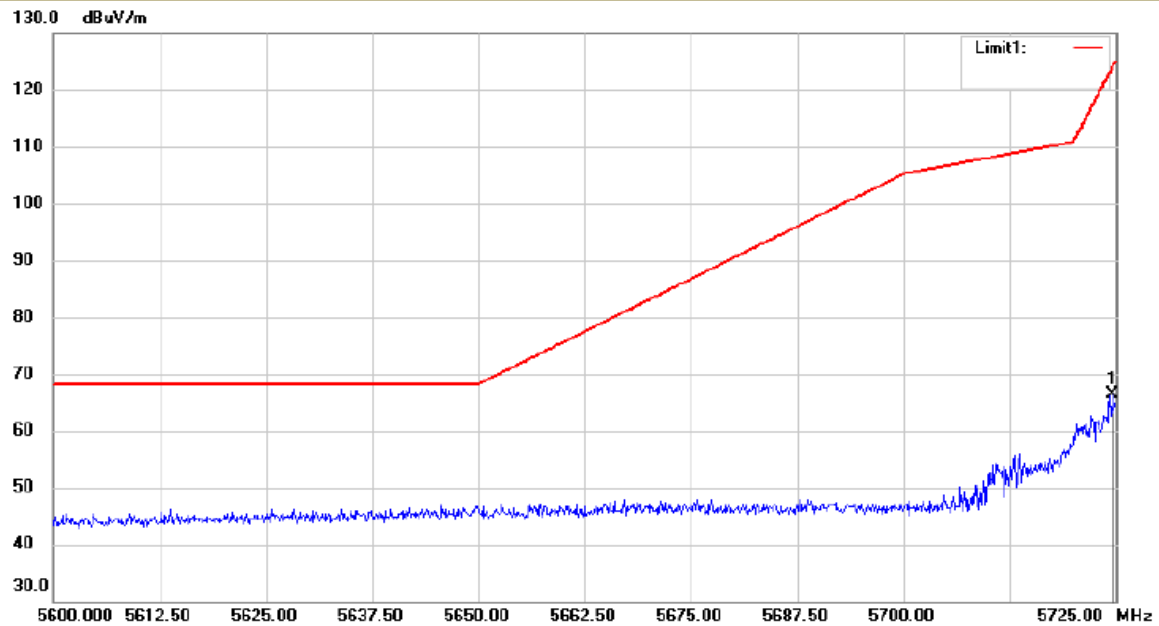
Test Model	Undesirable radiated <input checked="" type="checkbox"/> 802.11ac	Undesirable radiated <input checked="" type="checkbox"/> 5745	Spurious Emission in Band Edge <input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
			Ant. Pol	H



Site 3m Chamber #3	Polarization: Horizontal	Temperature: 22.5 C
Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak	Power: AC 120V/60Hz	Humidity: 45 %

U-NII -3

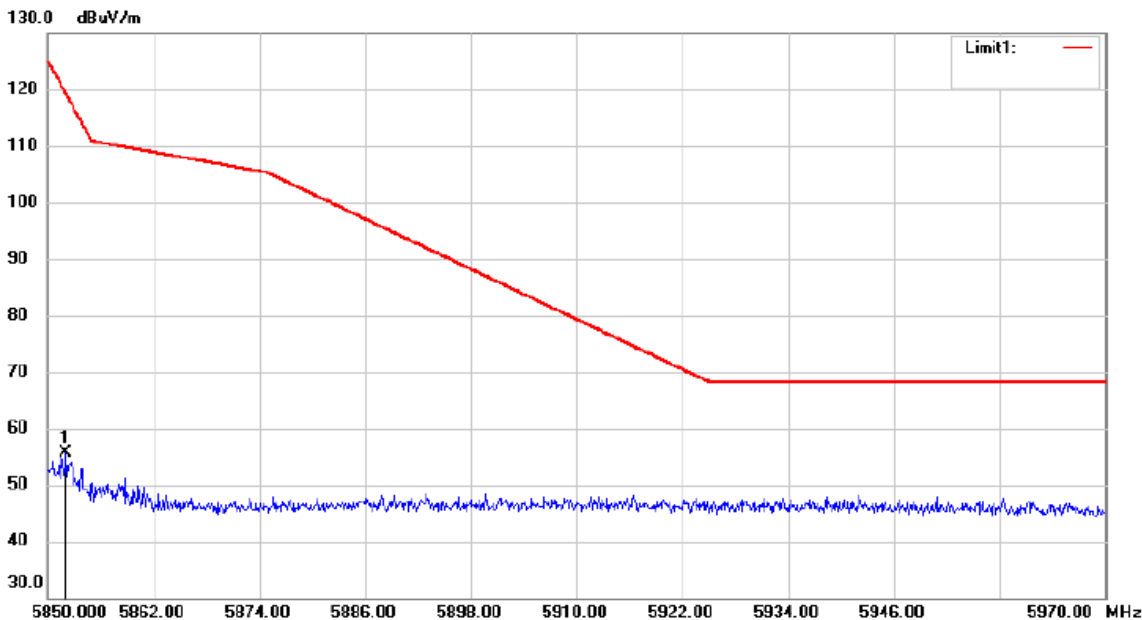
Test Model	Undesirable radiated <input checked="" type="checkbox"/> 802.11ac	Undesirable radiated <input checked="" type="checkbox"/> 5745	Spurious Emission in Band Edge <input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
			Ant. Pol	V



Site 3m Chamber #3	Polarization: Vertical	Temperature: 22.5 C
Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak	Power: AC 120V/60Hz	Humidity: 45 %

U-NII -3

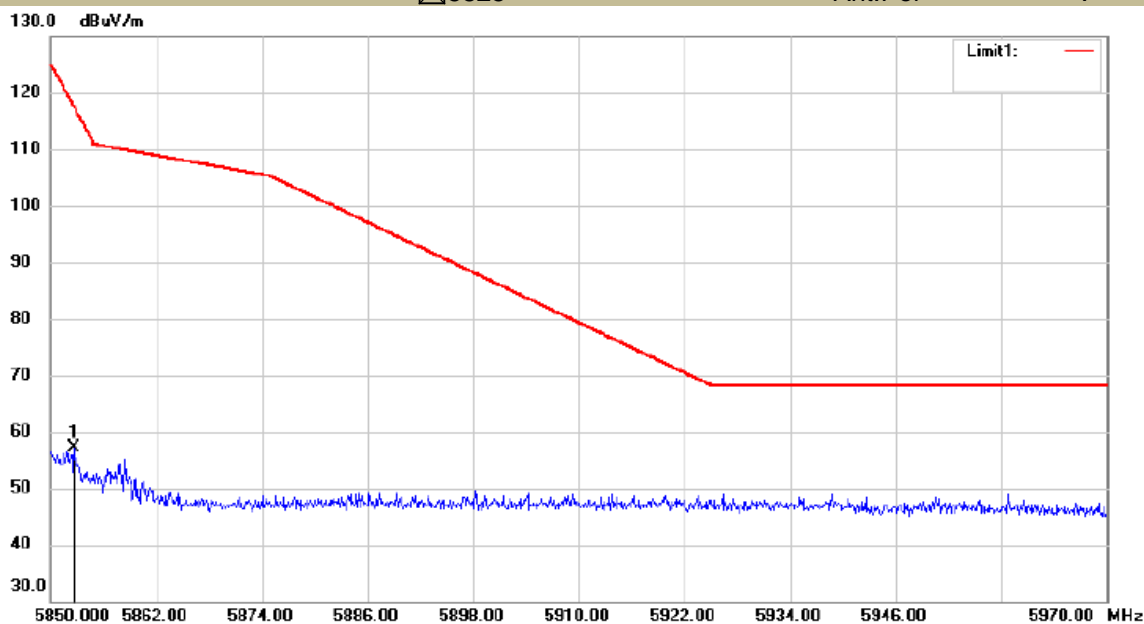
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	<input checked="" type="checkbox"/> 802.11ac	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input checked="" type="checkbox"/> 5825		Ant.Pol H



Site 3m Chamber #3	Polarization: Horizontal	Temperature: 22.5 C
Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak	Power: AC 120V/60Hz	Humidity: 45 %

U-NII -3

Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	<input checked="" type="checkbox"/> 802.11ac	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input checked="" type="checkbox"/> 5825		Ant.Pol V



Site 3m Chamber #3	Polarization: Vertical	Temperature: 22.5 C
Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak	Power: AC 120V/60Hz	Humidity: 45 %

Test mode:	802.11n40	Frequency(MHz):	5755
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5719.93	H	48.19	-47.04	29.44	Pass
5724.80	V	58.08	-37.15	15.58	Pass

Test mode:	802.11n40	Frequency(MHz):	5795
Mode:	MIMO	Test By:	XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5851.03	H	50.85	-44.38	20.53	Pass
5853.28	V	49.16	-46.07	27.03	Pass

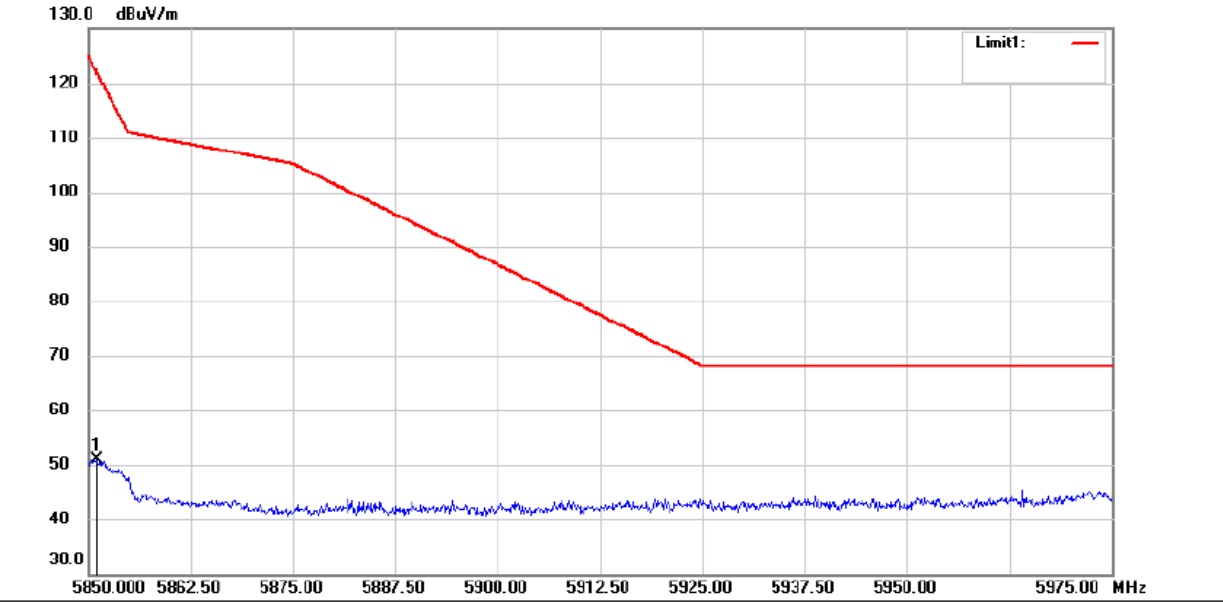
- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)

802.11ac 802.11n(HT20) 802.11n(HT40)

5795 Ant. Pol H



Site 3m Chamber #1 Polarization: **Horizontal** Temperature: 29.5 C

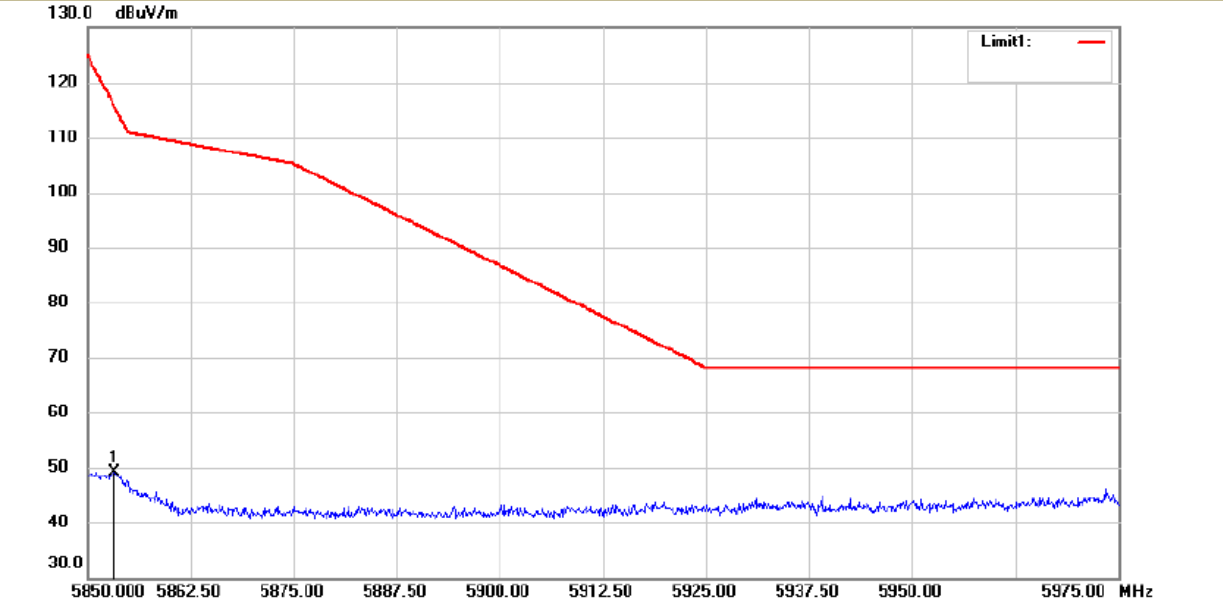
Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak Power: AC 120V/60Hz Humidity: 48 %

U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)

802.11ac 802.11n(HT20) 802.11n(HT40)

5795 Ant. Pol V



Site 3m Chamber #1 Polarization: **Vertical** Temperature: 29.5 C

Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak Power: AC 120V/60Hz Humidity: 48 %

Test mode: 802.11ac80 Frequency(MHz): 5775
 Mode: MIMO Test By: XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5721.73	H	46.86	-48.37	20.58	Pass
5723.97	V	47.66	-47.57	27.05	Pass

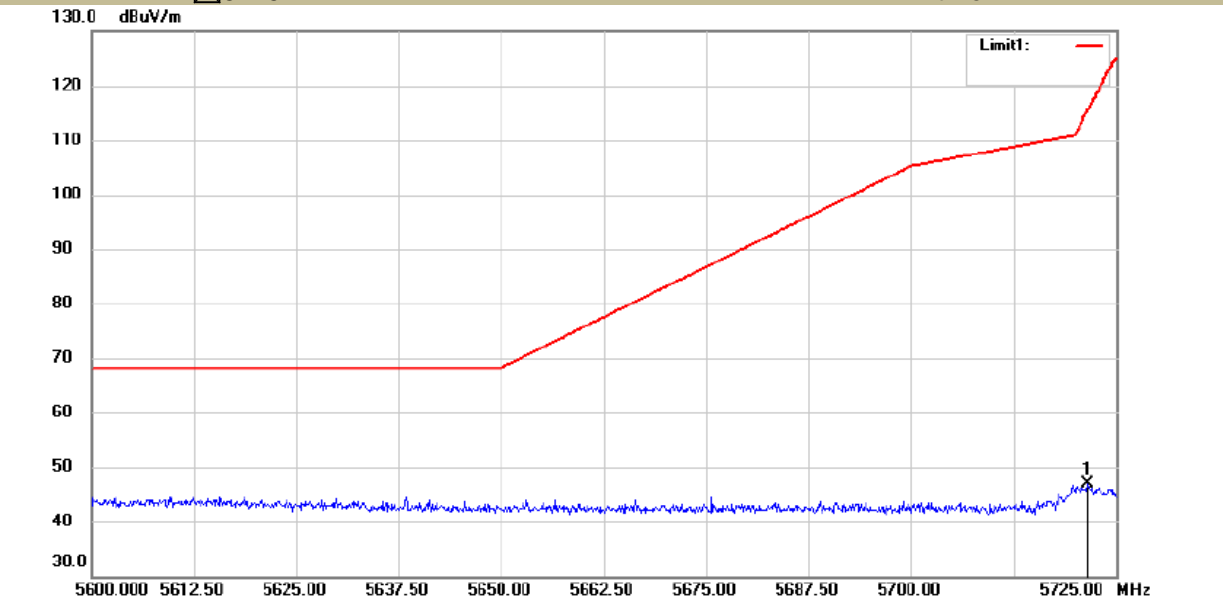
Test mode: 802.11ac80 Frequency(MHz): 5775
 Mode: MIMO Test By: XW

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5853.64	H	49.73	-45.50	27.75	Pass
5850.78	V	49.98	-45.25	19.51	Pass

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

U-NII - 1

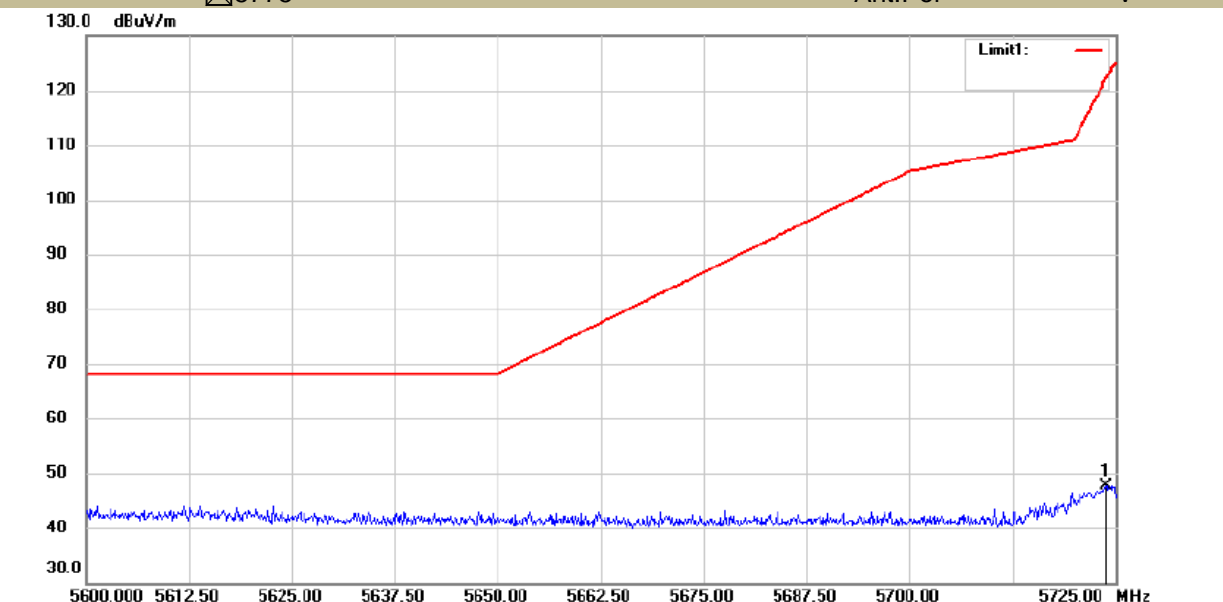
Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
802.11ac80
5775 Ant.Pol H



Site 3m Chamber #1 Polarization: **Horizontal** Temperature: 29.5 C
 Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak Power: AC 120V/60Hz Humidity: 48 %

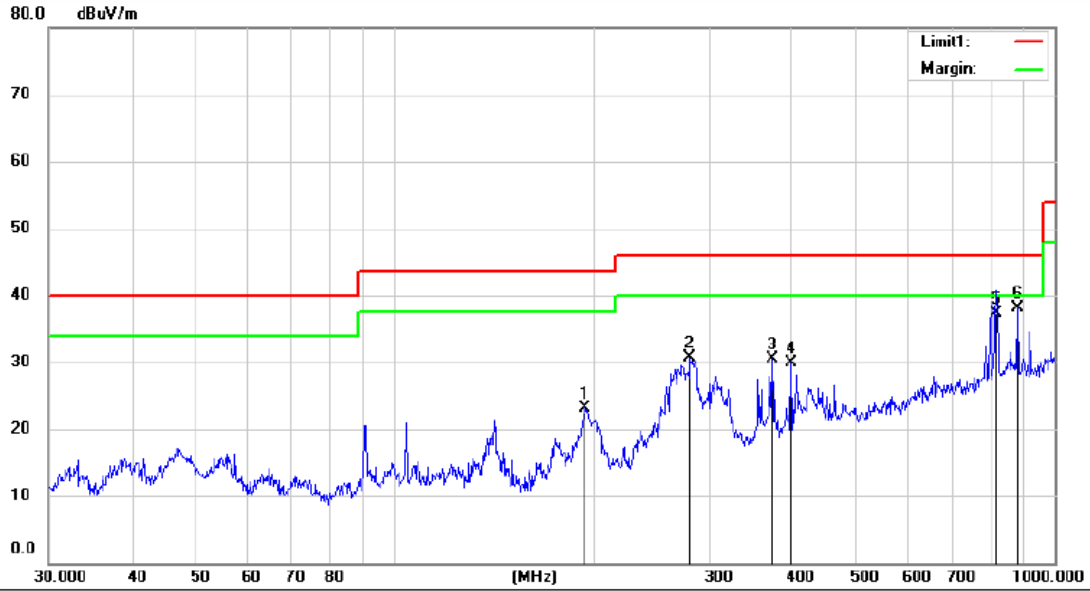
U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
802.11ac80
5775 Ant.Pol V



Site 3m Chamber #1 Polarization: **Vertical** Temperature: 29.5 C
 Limit: (RE)FCC PART 15C B4 (5G Bandedge) Peak Power: AC 120V/60Hz Humidity: 48 %

- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All the modes 802.11a/n/ac has been tested and the worst result 802.11ac recorded as below:



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 22.5 C

Limit: (RE)FCC PART 15 CLASS B

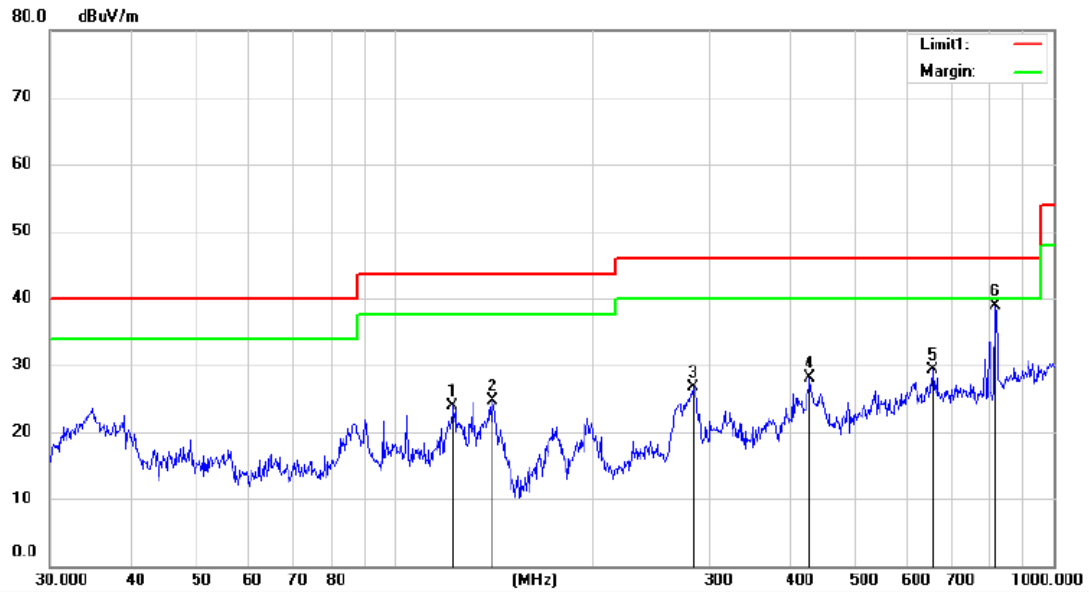
Power: AC 120V/60Hz

Humidity: 45 %

Mode:5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		194.0277	37.23	-14.03	23.20	43.50	-20.30	QP		
2		280.5152	41.91	-11.20	30.71	46.00	-15.29	QP		
3		374.2943	39.22	-8.70	30.52	46.00	-15.48	QP		
4		399.0302	38.30	-8.45	29.85	46.00	-16.15	QP		
5		817.0415	37.89	-0.49	37.40	46.00	-8.60	QP		
6	*	880.2485	37.73	0.33	38.06	46.00	-7.94	QP		



Site 3m Chamber #3

Polarization: *Vertical*

Temperature: 22.5 C

Limit: (RE)FCC PART 15 CLASS B

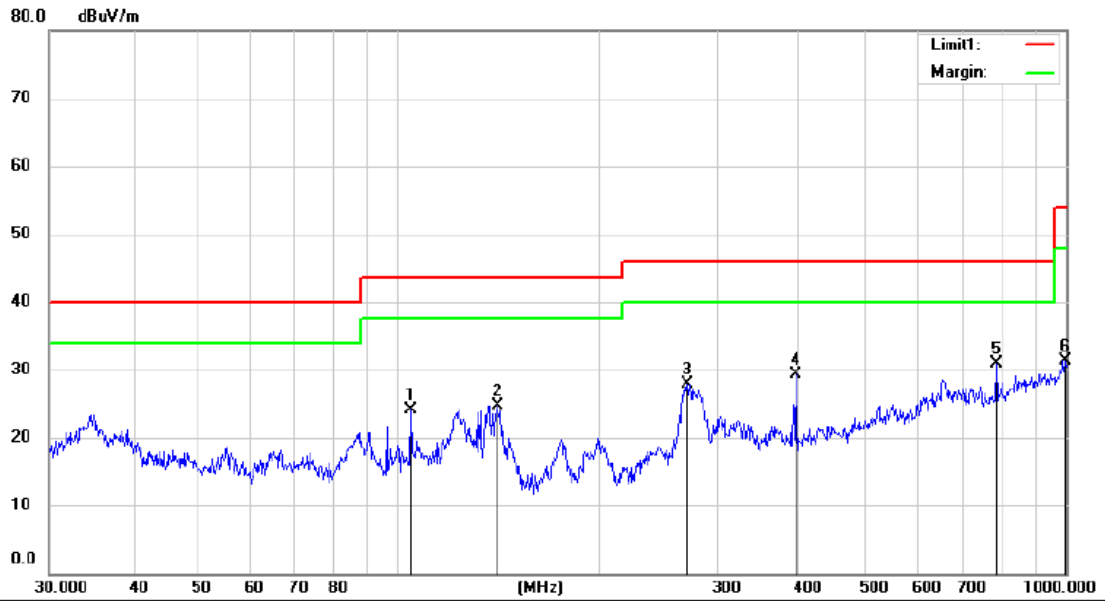
Power: AC 120V/60Hz

Humidity: 45 %

Mode:5180

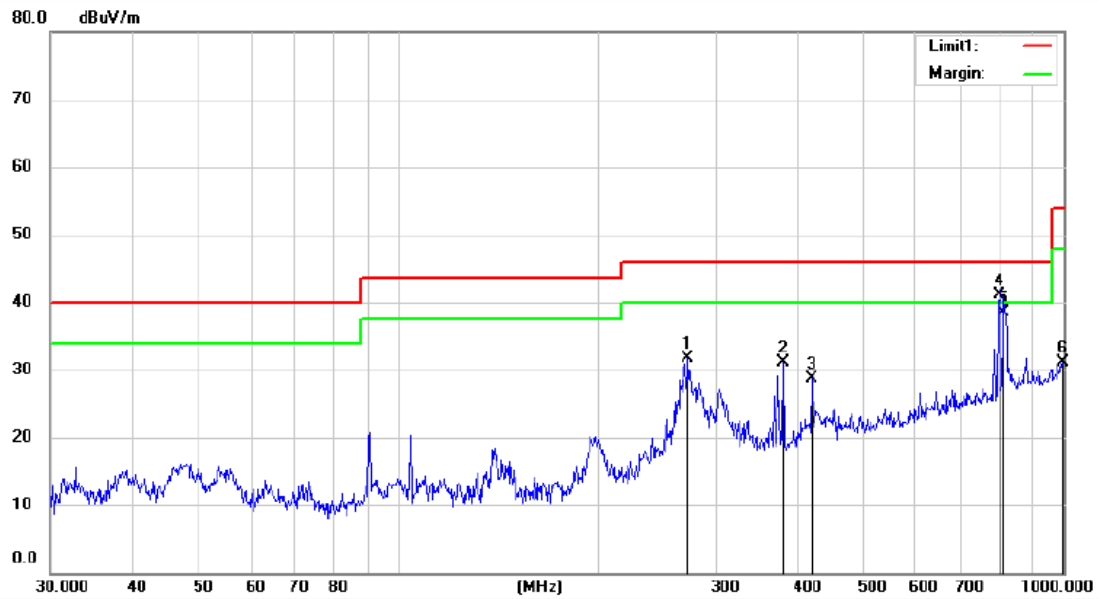
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		122.4577	39.44	-15.44	24.00	43.50	-19.50	QP			
2		140.3421	42.05	-17.44	24.61	43.50	-18.89	QP			
3		283.4817	37.87	-11.18	26.69	46.00	-19.31	QP			
4		426.5210	36.27	-8.17	28.10	46.00	-17.90	QP			
5		655.6672	33.06	-3.72	29.34	46.00	-16.66	QP			
6	*	818.1166	39.32	-0.39	38.93	46.00	-7.07	QP			



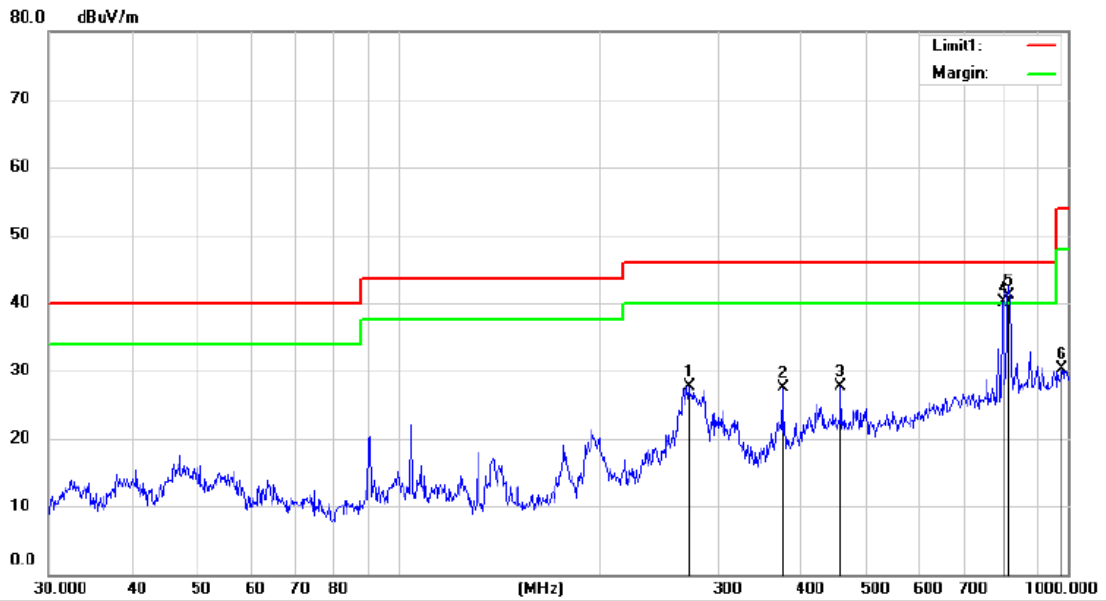
Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 22.5 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 45 %
 Mode: 5200
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		104.2615	38.57	-14.41	24.16	43.50	-19.34	QP		
2		140.3421	42.17	-17.44	24.73	43.50	-18.77	QP		
3		270.4932	39.47	-11.50	27.97	46.00	-18.03	QP		
4		394.3357	37.85	-8.51	29.34	46.00	-16.66	QP		
5	*	786.4712	32.30	-1.35	30.95	46.00	-15.05	QP		
6		999.5618	28.94	2.42	31.36	54.00	-22.64	QP		



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 22.5 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 45 %
 Mode: 5200
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		272.9947	43.31	-11.52	31.79	46.00	-14.21	QP		
2		378.5843	39.47	-8.38	31.09	46.00	-14.91	QP		
3		417.6411	36.81	-8.20	28.61	46.00	-17.39	QP		
4	*	800.0310	42.07	-0.97	41.10	46.00	-4.90	QP		
5		814.8956	39.15	-0.65	38.50	46.00	-7.50	QP		
6		999.1237	28.76	2.42	31.18	54.00	-22.82	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 22.5 C

Limit: (RE)FCC PART 15 CLASS B

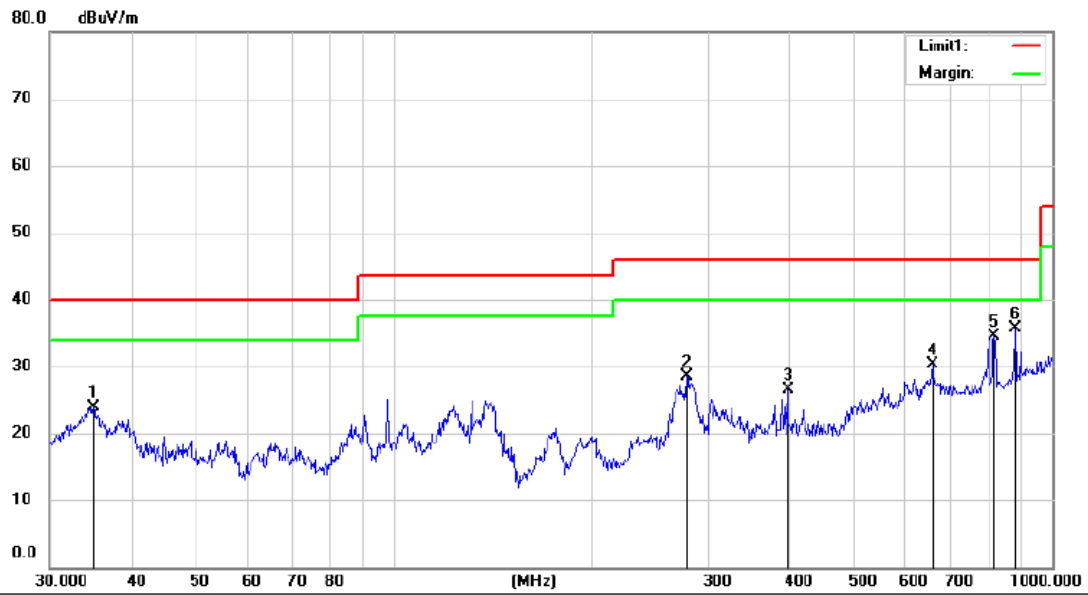
Power: AC 120V/60Hz

Humidity: 45 %

Mode:5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		271.3246	39.25	-11.51	27.74	46.00	-18.26			QP
2		375.1155	36.11	-8.62	27.49	46.00	-18.51			QP
3		458.1093	35.22	-7.61	27.61	46.00	-18.39			QP
4	!	800.0310	41.07	-0.97	40.10	46.00	-5.90			QP
5	*	816.6834	41.61	-0.51	41.10	46.00	-4.90			QP
6		982.1894	27.85	2.39	30.24	54.00	-23.76			QP



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 22.5 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 45 %

Mode:5240

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		34.8822	39.46	-15.59	23.87	40.00	-16.13	QP		
2		278.3107	39.86	-11.32	28.54	46.00	-17.46	QP		
3		397.4591	34.97	-8.47	26.50	46.00	-19.50	QP		
4		658.5474	33.87	-3.58	30.29	46.00	-15.71	QP		
5		818.1165	34.99	-0.39	34.60	46.00	-11.40	QP		
6	*	880.2484	35.45	0.33	35.78	46.00	-10.22	QP		

8.6 POWER LINE CONDUCTED EMISSIONS

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

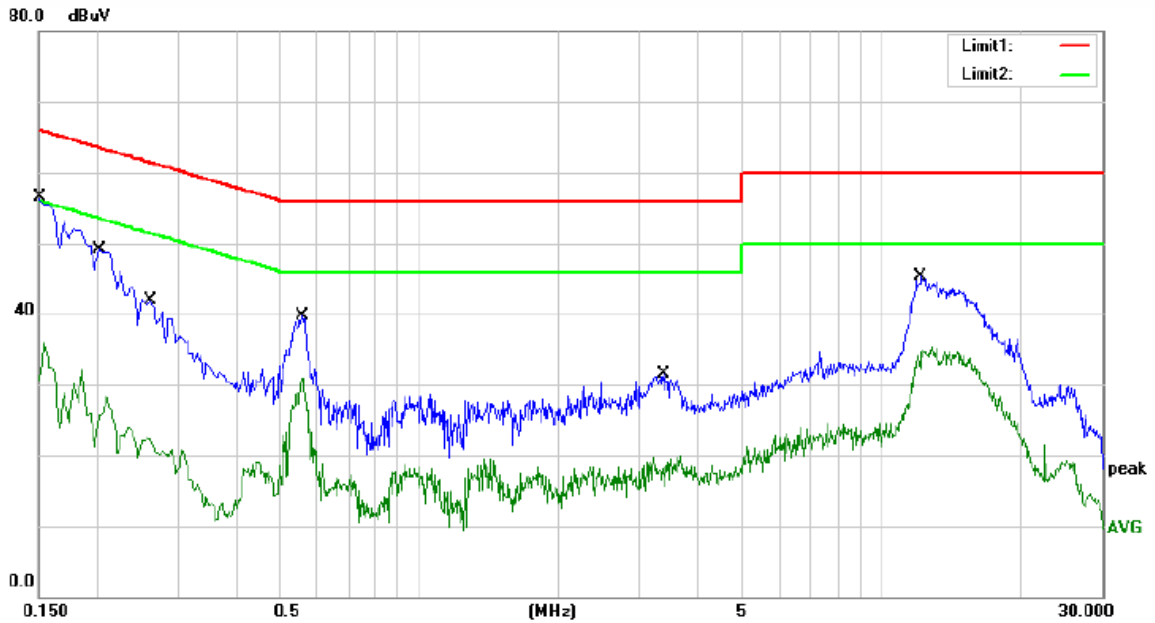
8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

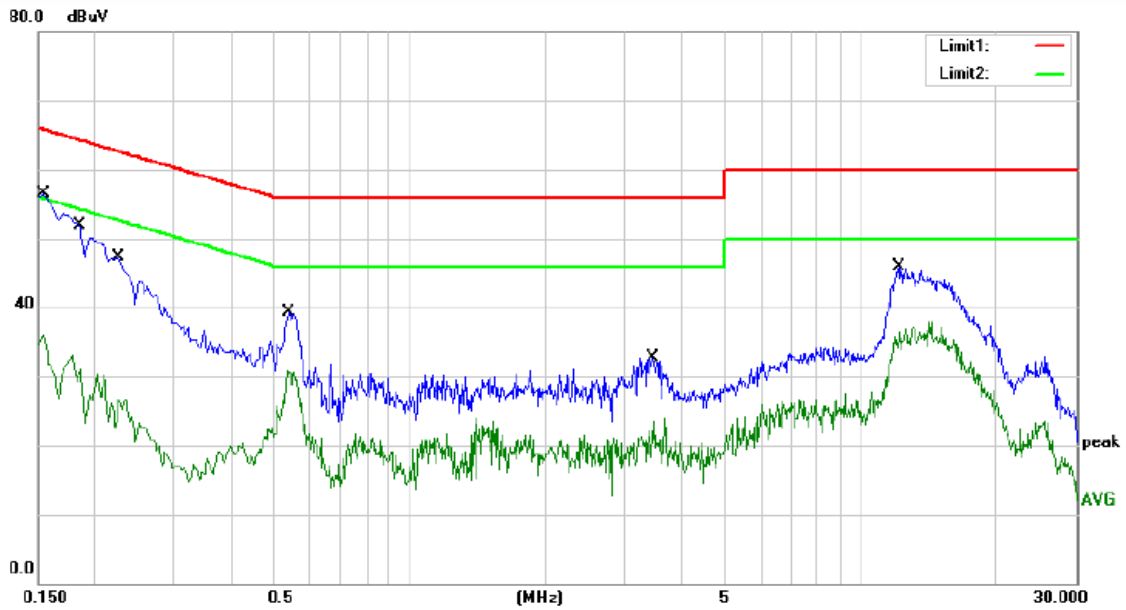
Pass

The 120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1 Phase: **L1** Temperature: 24.9
 Limit: (CE)FCC PART 15 class B QP Power: AC 120V/60Hz Humidity: 54 %
 Mode: TX
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	46.82	9.67	56.49	66.00	-9.51	QP	
2		0.1500	26.22	9.67	35.89	56.00	-20.11	AVG	
3		0.2020	39.52	9.55	49.07	63.53	-14.46	QP	
4		0.2020	22.52	9.55	32.07	53.53	-21.46	AVG	
5		0.2620	32.30	9.55	41.85	61.37	-19.52	QP	
6		0.2620	14.40	9.55	23.95	51.37	-27.42	AVG	
7		0.5580	30.07	9.57	39.64	56.00	-16.36	QP	
8		0.5580	21.41	9.57	30.98	46.00	-15.02	AVG	
9		3.3780	21.84	9.62	31.46	56.00	-24.54	QP	
10		3.3780	10.35	9.62	19.97	46.00	-26.03	AVG	
11		12.1300	35.36	9.86	45.22	60.00	-14.78	QP	
12		12.1300	25.42	9.86	35.28	50.00	-14.72	AVG	



Site Conduction #1 Phase: **N** Temperature: 24.9
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %
 Mode: TX
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	46.84	9.65	56.49	65.78	-9.29	QP	
2		0.1540	26.54	9.65	36.19	55.78	-19.59	AVG	
3		0.1863	41.12	9.55	50.67	64.20	-13.53	QP	
4		0.1863	23.51	9.55	33.06	54.20	-21.14	AVG	
5		0.2267	37.36	9.55	46.91	62.57	-15.66	QP	
6		0.2267	17.13	9.55	26.68	52.57	-25.89	AVG	
7		0.5380	29.68	9.56	39.24	56.00	-16.76	QP	
8		0.5380	21.31	9.56	30.87	46.00	-15.13	AVG	
9		3.4500	23.16	9.62	32.78	56.00	-23.22	QP	
10		3.4500	14.33	9.62	23.95	46.00	-22.05	AVG	
11		12.1700	35.98	9.86	45.84	60.00	-14.16	QP	
12		12.1700	28.12	9.86	37.98	50.00	-12.02	AVG	

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

- The EUT has 2 antennas: an External Antenna for WIFI 5G, the antenna 1 gain is 5.0 dBi, antenna 2 gain is 5.0 dBi,;

Note: Antennas use a permanently attached antenna which is not replaceable.
 Not using a standard antenna jack or electrical connector for antenna replacement
 The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5