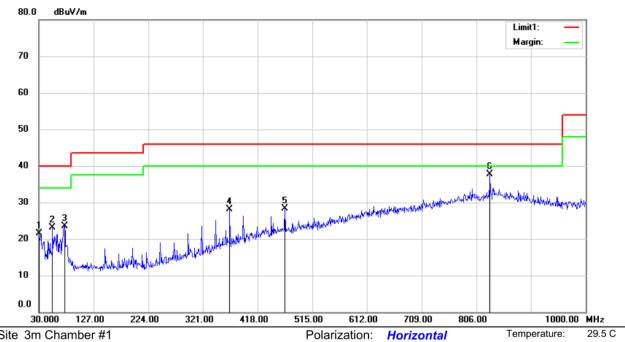


48 %

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



Site 3m Chamber #1 Limit: (RE)FCC PART 15 CLASS B

Mode:5G WIFI 5180

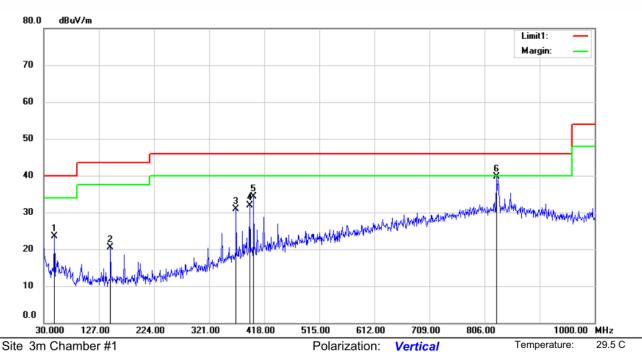
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.8487	35.69	-14.11	21.58	40.00	-18.42	QP			
2		54.9774	34.79	-11.72	23.07	40.00	-16.93	QP			
3		75.7112	37.68	-14.10	23.58	40.00	-16.42	QP			
4	;	368.6512	35.59	-7.40	28.19	46.00	-17.81	QP			
5	4	466.9850	32.78	-4.57	28.21	46.00	-17.79	QP			
6	* {	330.4924	33.24	4.54	37.78	46.00	-8.22	QP			

Power: AC 120V/60Hz



48 %



Limit: (RE)FCC PART 15 CLASS B

Mode:5G WIFI 5180

Widde.3G WIFI 3 16

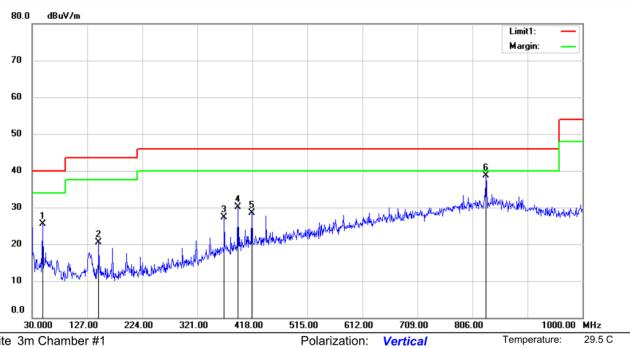
Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.0362	35.51	-11.96	23.55	40.00	-16.45	QP			
2		147.3700	34.39	-13.83	20.56	43.50	-22.94	QP			
3		368.6512	38.40	-7.40	31.00	46.00	-15.00	QP			
4		393.2650	38.20	-6.32	31.88	46.00	-14.12	QP			
5		400.0550	40.27	-5.97	34.30	46.00	-11.70	QP			
6	*	827.4612	35.39	4.41	39.80	46.00	-6.20	QP			

Power: AC 120V/60Hz



48 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15 CLASS B

Mode:5G WIFI 5200

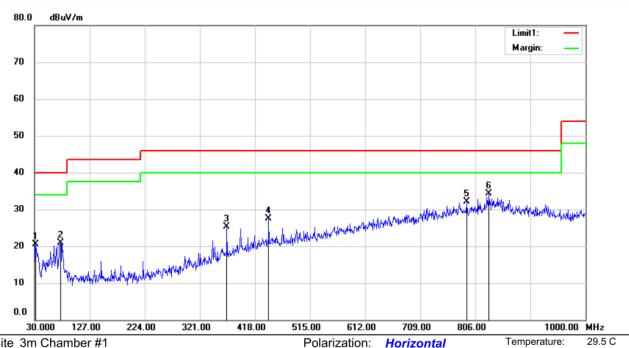
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.1574	37.52	-11.93	25.59	40.00	-14.41	QP			
2	1	147.3700	34.43	-13.83	20.60	43.50	-22.90	QP			
3	3	368.6512	34.76	-7.40	27.36	46.00	-18.64	QP			
4	3	393.2650	36.48	-6.32	30.16	46.00	-15.84	QP			
5	4	117.8787	33.92	-5.49	28.43	46.00	-17.57	QP			
6	* 8	331.0987	34.21	4.56	38.77	46.00	-7.23	QP			

Power: AC 120V/60Hz



48 %



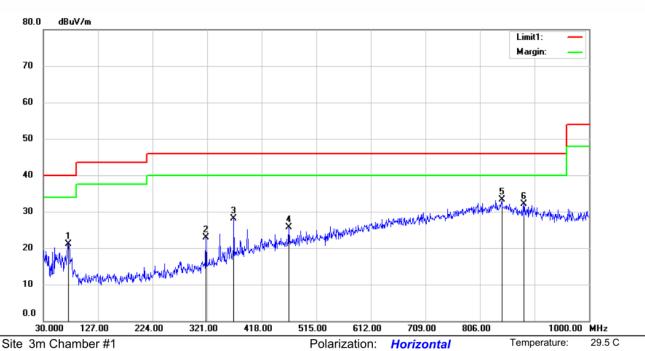
Site 3m Chamber #1 Polarization: Horizontal
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz

Mode:5G WIFI 5200

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.4250	34.41	-13.99	20.42	40.00	-19.58	QP			
2		76.1962	35.16	-14.18	20.98	40.00	-19.02	QP			
3	;	368.6512	32.66	-7.40	25.26	46.00	-20.74	QP			
4	4	442.3712	32.47	-4.95	27.52	46.00	-18.48	QP			
5		791.3287	28.14	3.88	32.02	46.00	-13.98	QP			
6	* (	830.9774	29.83	4.56	34.39	46.00	-11.61	QP			



48 %



Power: AC 120V/60Hz

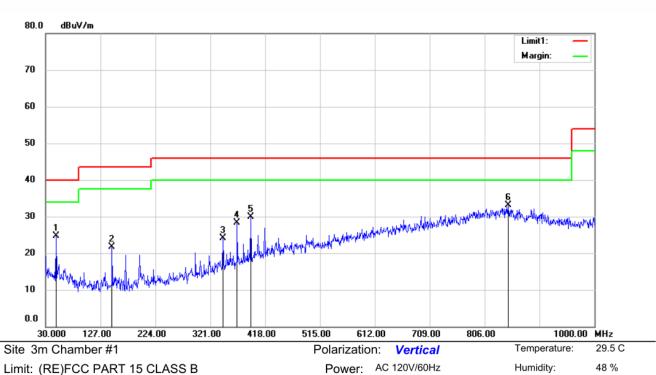
Limit: (RE)FCC PART 15 CLASS B

Mode:5G WIFI 5240

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		75.2262	35.22	-14.04	21.18	40.00	-18.82	QP			
2	3	319.5450	32.52	-9.66	22.86	46.00	-23.14	QP			
3	3	368.6512	35.53	-7.40	28.13	46.00	-17.87	QP			
4	4	466.9850	30.35	-4.57	25.78	46.00	-20.22	QP			
5	* {	345.4062	28.45	4.93	33.38	46.00	-12.62	QP			
6	8	383.7212	28.73	3.47	32.20	46.00	-13.80	QP			



48 %



Limit: (RE)FCC PART 15 CLASS B

Mode:5G WIFI 5240

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.0362	36.57	-11.96	24.61	40.00	-15.39	QP			
2		147.3700	35.63	-13.83	21.80	43.50	-21.70	QP			
3		344.0375	32.40	-8.36	24.04	46.00	-21.96	QP			
4		368.6512	35.79	-7.40	28.39	46.00	-17.61	QP			
5		393.2650	36.31	-6.32	29.99	46.00	-16.01	QP			
6	*	847.8312	28.13	4.93	33.06	46.00	-12.94	QP			



# 8.6 POWER LINE CONDUCTED EMISSIONS

## 8.6.1 Applicable Standard

According to FCC Part 15.207(a)

### 8.6.2 Conformance Limit

### Conducted Emission Limit

Frequency(MHz)	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.

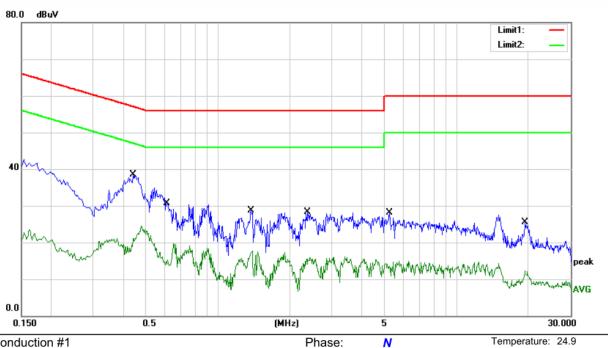
### 8.6.5 Test Results

### Pass

All mode and the voltage 120V and 240V have been tested, and show the worst result (WIFI ON,120V $\sim$  60Hz) as bellow.



54 %



Power: AC 120V/60Hz

Site Conduction #1

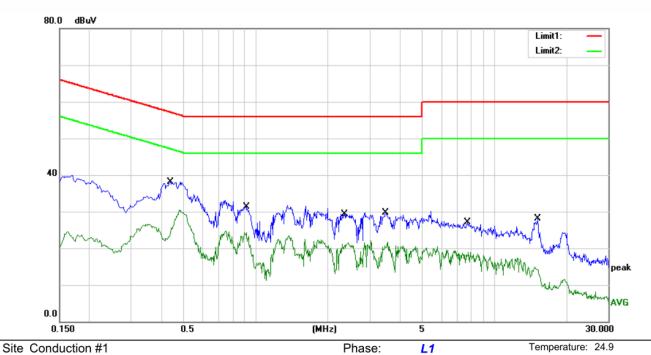
Limit: (CE)FCC PART 15 class B\_QP

Mode: 5G WIFI MODE

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4420	28.93	9.56	38.49	57.02	-18.53	QP	
2		0.4420	14.93	9.56	24.49	47.02	-22.53	AVG	
3		0.6100	21.07	9.57	30.64	56.00	-25.36	QP	
4		0.6100	9.49	9.57	19.06	46.00	-26.94	AVG	
5		1.3780	19.10	9.59	28.69	56.00	-27.31	QP	
6		1.3780	8.17	9.59	17.76	46.00	-28.24	AVG	
7		2.3780	18.64	9.61	28.25	56.00	-27.75	QP	
8		2.3780	6.20	9.61	15.81	46.00	-30.19	AVG	
9		5.2220	18.46	9.66	28.12	60.00	-31.88	QP	
10		5.2220	5.70	9.66	15.36	50.00	-34.64	AVG	
11		19.3380	15.12	10.29	25.41	60.00	-34.59	QP	
12		19.3380	3.95	10.29	14.24	50.00	-35.76	AVG	



54 %



Power: AC 120V/60Hz

Limit: (CE)FCC PART 15 class B\_QP

Mode: 5G WIFI MODE

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4380	28.51	9.56	38.07	57.10	-19.03	QP	
2	*	0.4380	20.84	9.56	30.40	47.10	-16.70	AVG	
3		0.9100	21.77	9.58	31.35	56.00	-24.65	QP	
4		0.9100	14.75	9.58	24.33	46.00	-21.67	AVG	
5		2.3460	19.75	9.61	29.36	56.00	-26.64	QP	
6		2.3460	12.76	9.61	22.37	46.00	-23.63	AVG	
7		3.4980	20.10	9.62	29.72	56.00	-26.28	QP	
8		3.4980	12.05	9.62	21.67	46.00	-24.33	AVG	
9		7.7220	17.29	9.74	27.03	60.00	-32.97	QP	
10		7.7220	9.78	9.74	19.52	50.00	-30.48	AVG	
11		15.1860	18.05	9.96	28.01	60.00	-31.99	QP	
12		15.1860	7.41	9.96	17.37	50.00	-32.63	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	Resul	t

PASS

FA00.			
_	? antennas as below: al Antenna for WIFI 5G, the gair	n is 4.49 dBi.	
	al Antenna for WIFI 5G, the gair		
Note:	Antennas use a permanently	y attached antenna which is not rep	olaceable.
	Not using a standard antenn	na jack or electrical connector for a	ntenna replacement
	The antenna has to be profe	essionally installed (please provide	method of installation
whic	ch in accordance to section 15	5.203, please refer to the internal pl	notos.



# 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	1	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	1	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

\*\*\* End of Report \*\*\*