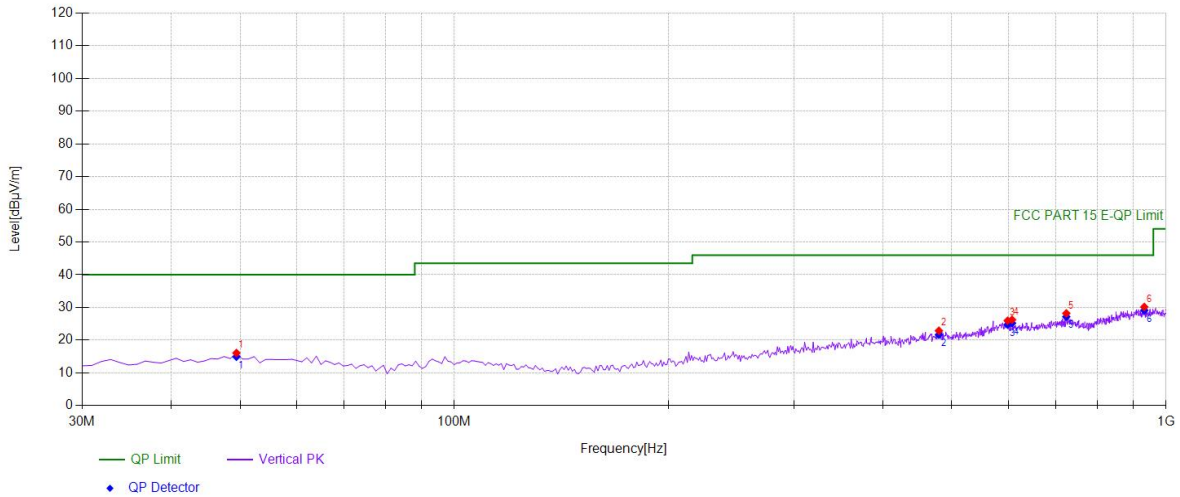


Test mode: 802.11a Frequency(MHz): 5240

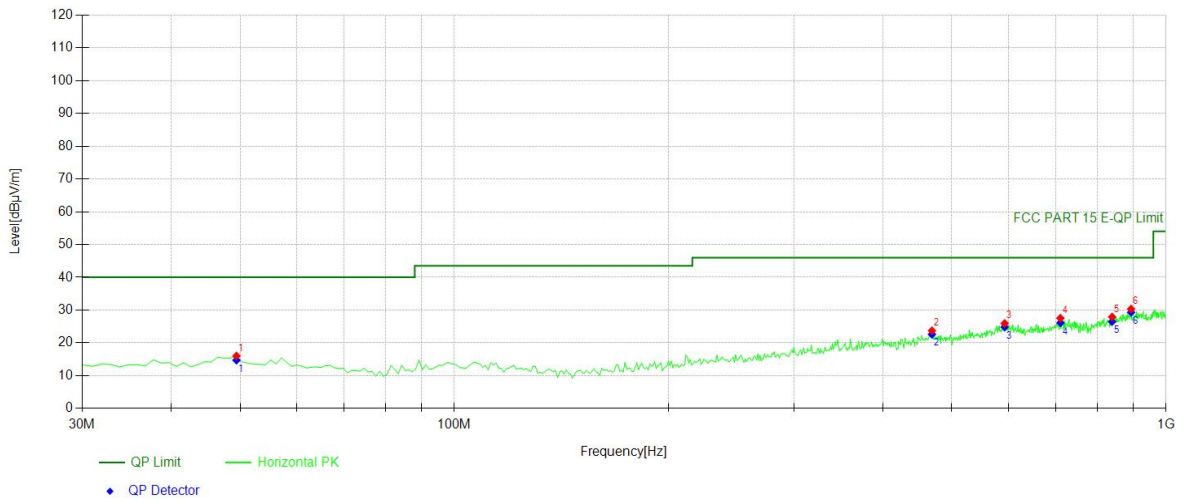


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	26.84	-10.75	16.09	PK	40.00	23.91	Vertical
2	479.559	26.86	-3.96	22.90	PK	46.00	23.10	Vertical
3	598.989	26.29	-0.32	25.97	PK	46.00	20.03	Vertical
4	607.727	26.99	-0.73	26.26	PK	46.00	19.74	Vertical
5	724.244	28.14	0.07	28.21	PK	46.00	17.79	Vertical
6	932.032	27.84	2.33	30.17	PK	46.00	15.83	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	49.4194	-10.75	14.96	40.00	25.04
2	479.5596	-3.96	21.68	46.00	24.32
3	598.989	-0.32	24.75	46.00	21.25
4	607.7277	-0.73	25.22	46.00	20.78
5	724.2442	0.07	27.17	46.00	18.83
6	932.032	2.33	29.13	46.00	16.87



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	26.78	-10.75	16.03	PK	40.00	23.97	Horizontal
2	468.878	27.90	-4.17	23.73	PK	46.00	22.27	Horizontal
3	593.163	26.55	-0.61	25.94	PK	46.00	20.06	Horizontal
4	710.650	27.73	-0.19	27.54	PK	46.00	18.46	Horizontal
5	839.789	26.94	0.98	27.92	PK	46.00	18.08	Horizontal
6	893.193	27.93	2.42	30.35	PK	46.00	15.65	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	49.4194	-10.75	14.72	40.00	25.28
2	468.8789	-4.17	22.60	46.00	23.40
3	593.1632	-0.61	24.81	46.00	21.19
4	710.6507	-0.19	26.09	46.00	19.91
5	839.7898	0.98	26.47	46.00	19.53
6	893.1932	2.42	29.32	46.00	16.68

8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a)

8.5.2 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.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.5.4 Test Procedure

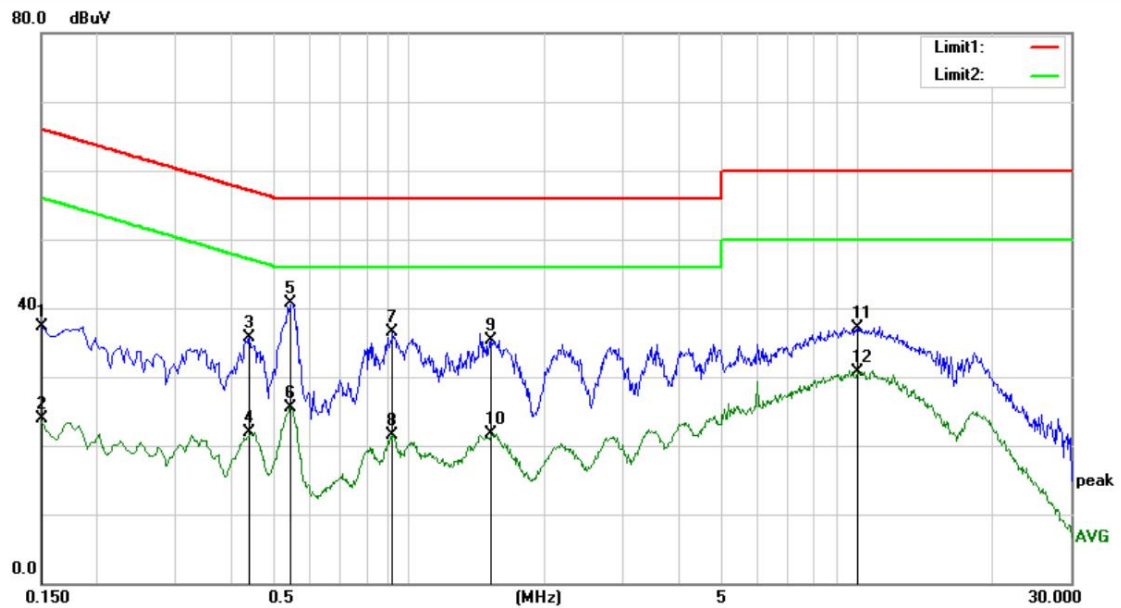
The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

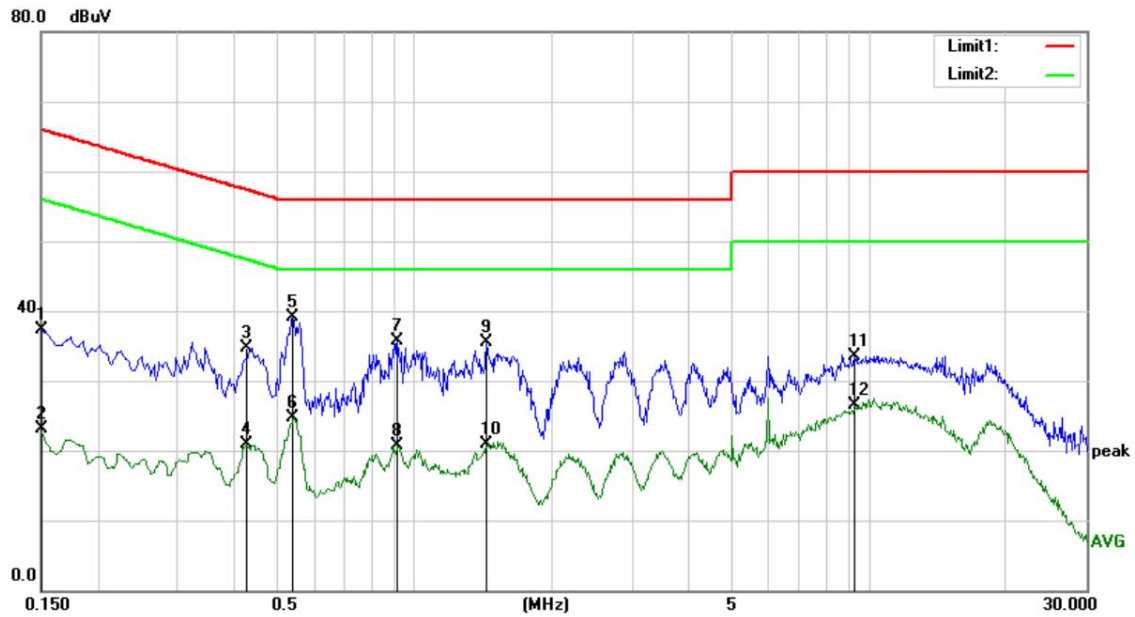
Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

Pass



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	27.60	9.78	37.38	66.00	-28.62	QP	
2		0.1500	14.03	9.78	23.81	56.00	-32.19	AVG	
3		0.4380	26.11	9.65	35.76	57.10	-21.34	QP	
4		0.4380	12.29	9.65	21.94	47.10	-25.16	AVG	
5	*	0.5420	30.94	9.68	40.62	56.00	-15.38	QP	
6		0.5420	15.84	9.68	25.52	46.00	-20.48	AVG	
7		0.9100	26.69	9.73	36.42	56.00	-19.58	QP	
8		0.9100	11.72	9.73	21.45	46.00	-24.55	AVG	
9		1.5140	25.57	9.76	35.33	56.00	-20.67	QP	
10		1.5140	12.03	9.76	21.79	46.00	-24.21	AVG	
11		9.9780	27.15	9.98	37.13	60.00	-22.87	QP	
12		9.9780	20.76	9.98	30.74	50.00	-19.26	AVG	



Site Conduction #1				Phase: N		Temperature: 21.9		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector Comment
1		0.1500	27.53	9.78	37.31	66.00	-28.69	QP
2		0.1500	13.26	9.78	23.04	56.00	-32.96	AVG
3		0.4260	24.99	9.64	34.63	57.33	-22.70	QP
4		0.4260	11.27	9.64	20.91	47.33	-26.42	AVG
5	*	0.5380	29.49	9.68	39.17	56.00	-16.83	QP
6		0.5380	15.07	9.68	24.75	46.00	-21.25	AVG
7		0.9180	25.90	9.73	35.63	56.00	-20.37	QP
8		0.9180	10.90	9.73	20.63	46.00	-25.37	AVG
9		1.4380	25.66	9.75	35.41	56.00	-20.59	QP
10		1.4380	11.13	9.75	20.88	46.00	-25.12	AVG
11		9.2940	23.63	9.92	33.55	60.00	-26.45	QP
12		9.2940	16.49	9.92	26.41	50.00	-23.59	AVG

8.6 ANTENNA APPLICATION

8.6.1 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.

8.6.2 Result

PASS

Temperature : 25°C ATM Pressure: 1011 mbar
Humidity : 45 % Test Engineer: ZGJ

The EUT is integrated antenna, the antenna gain is 2.11dBi.

- ☒ 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

--- End of Report ---

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