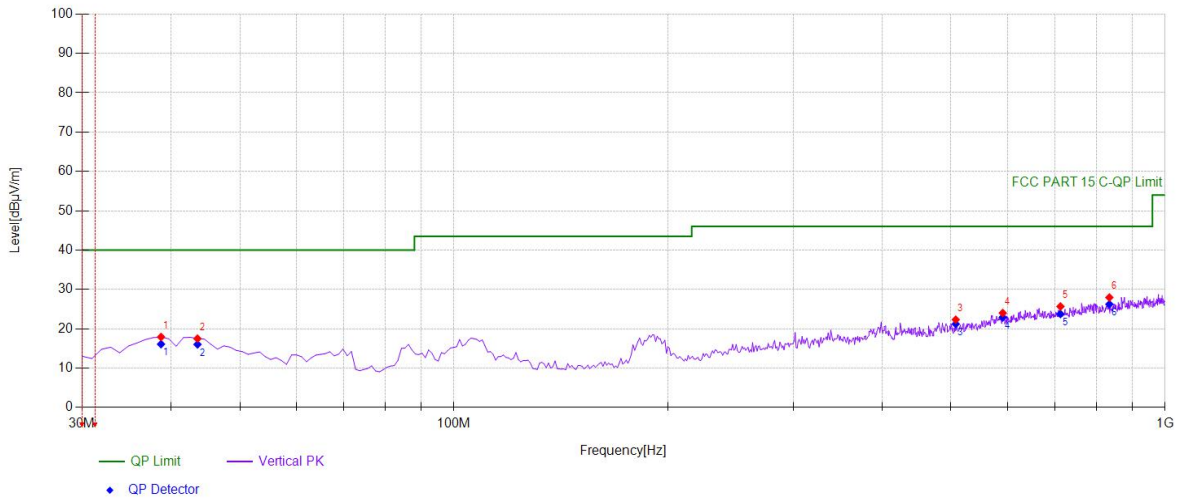
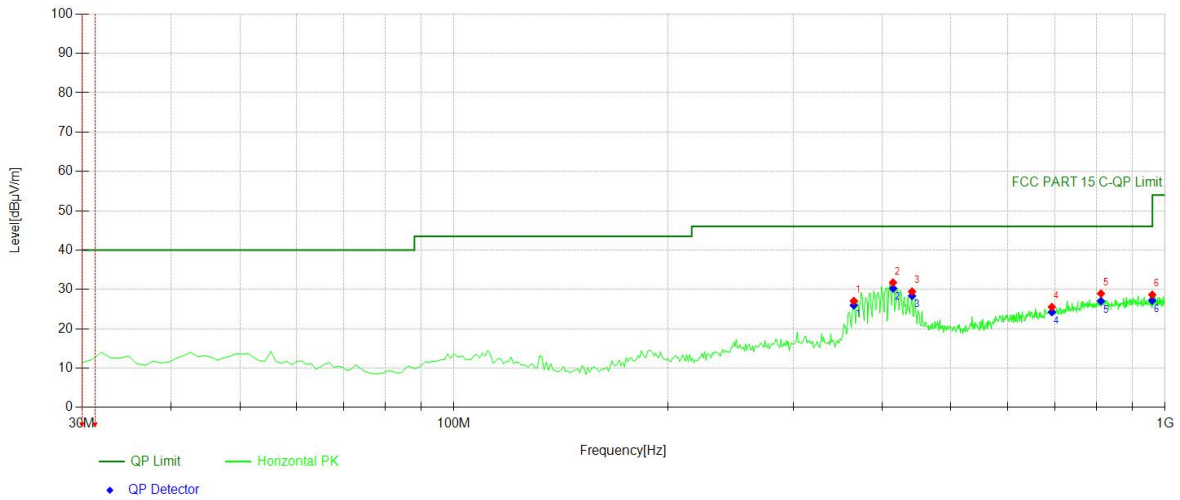


Test mode: 802.11B Frequency: Channel 6: 2437MHz

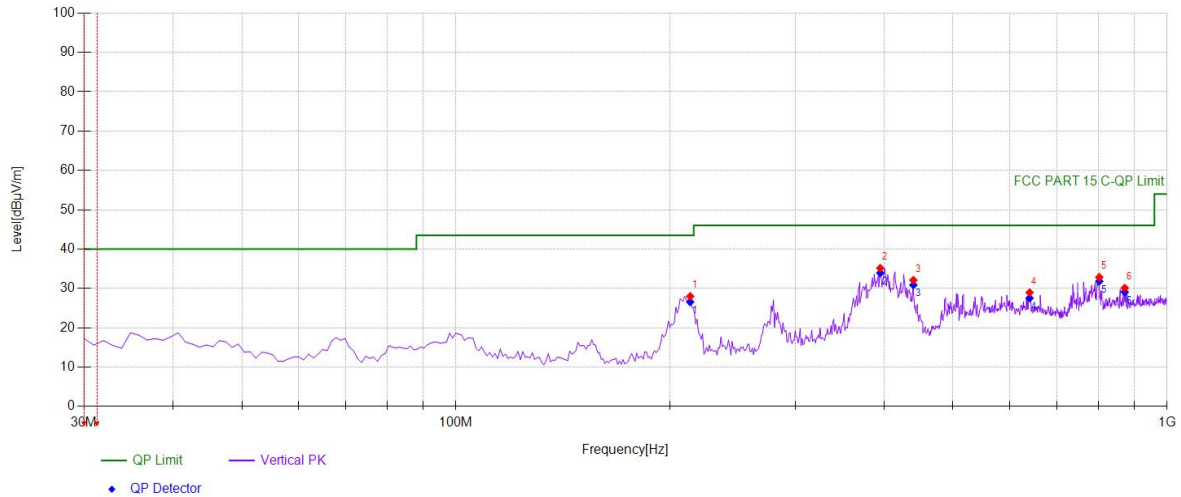


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	38.7387	35.91	-17.99	17.92	PK	40.00	22.08	Vertical
2	43.5936	35.16	-17.66	17.50	PK	40.00	22.50	Vertical
3	507.717	32.10	-9.78	22.32	PK	46.00	23.68	Vertical
4	591.221	31.15	-7.14	24.01	PK	46.00	21.99	Vertical
5	712.592	31.50	-5.83	25.67	PK	46.00	20.33	Vertical
6	834.934	31.95	-3.99	27.96	PK	46.00	18.04	Vertical



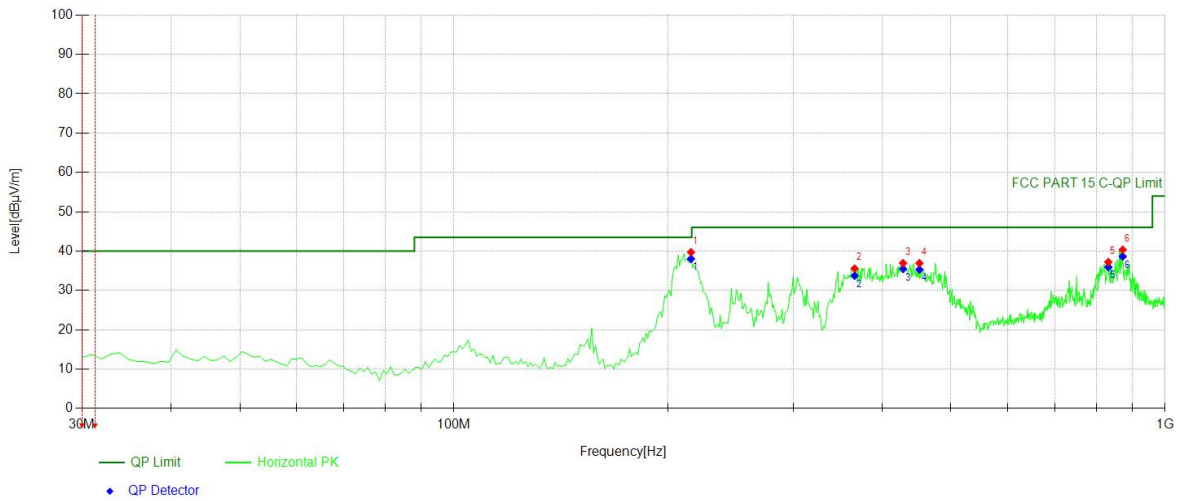
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	364.985	40.11	-13.05	27.06	PK	46.00	18.94	Horizontal
2	414.504	43.50	-11.76	31.74	PK	46.00	14.26	Horizontal
3	440.720	40.64	-11.18	29.46	PK	46.00	16.54	Horizontal
4	693.173	31.53	-6.00	25.53	PK	46.00	20.47	Horizontal
5	812.602	33.29	-4.33	28.96	PK	46.00	17.04	Horizontal
6	959.219	30.94	-2.28	28.66	PK	46.00	17.34	Horizontal

Test mode: 802.11B Frequency: Channel 11: 2462MHz



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	213.513	45.12	-17.12	28.00	PK	43.50	15.50	Vertical
2	395.085	46.97	-11.81	35.16	PK	46.00	10.84	Vertical
3	439.749	43.30	-11.19	32.11	PK	46.00	13.89	Vertical
4	640.740	35.20	-6.25	28.95	PK	46.00	17.05	Vertical
5	802.892	37.26	-4.40	32.86	PK	46.00	13.14	Vertical
6	871.831	33.50	-3.38	30.12	PK	46.00	15.88	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	215.455	56.81	-17.11	39.70	PK	43.50	3.80	Horizontal
2	365.956	48.53	-12.96	35.57	PK	46.00	10.43	Horizontal
3	428.098	48.45	-11.51	36.94	PK	46.00	9.06	Horizontal
4	451.401	48.05	-11.12	36.93	PK	46.00	9.07	Horizontal
5	832.022	41.29	-4.07	37.22	PK	46.00	8.78	Horizontal
6	871.831	43.73	-3.38	40.35	PK	46.00	5.65	Horizontal

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to IC RSS-Gen 8.8

7.6.2 Conformance Limit

FCC Part 15, Subpart B, Class B

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.

7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup 3.

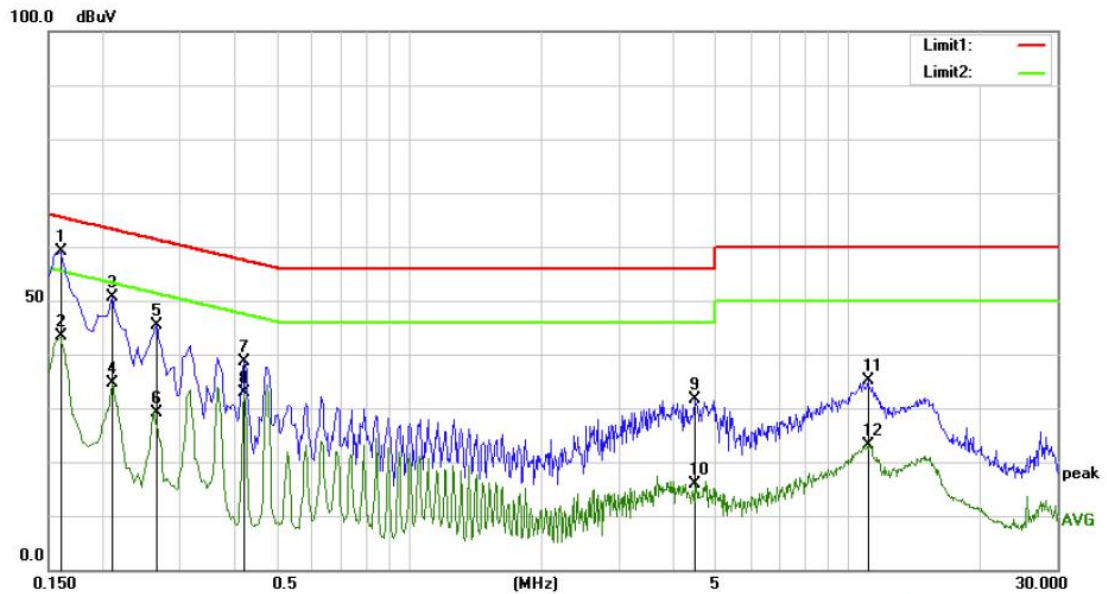
7.6.4 Test Procedure

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.

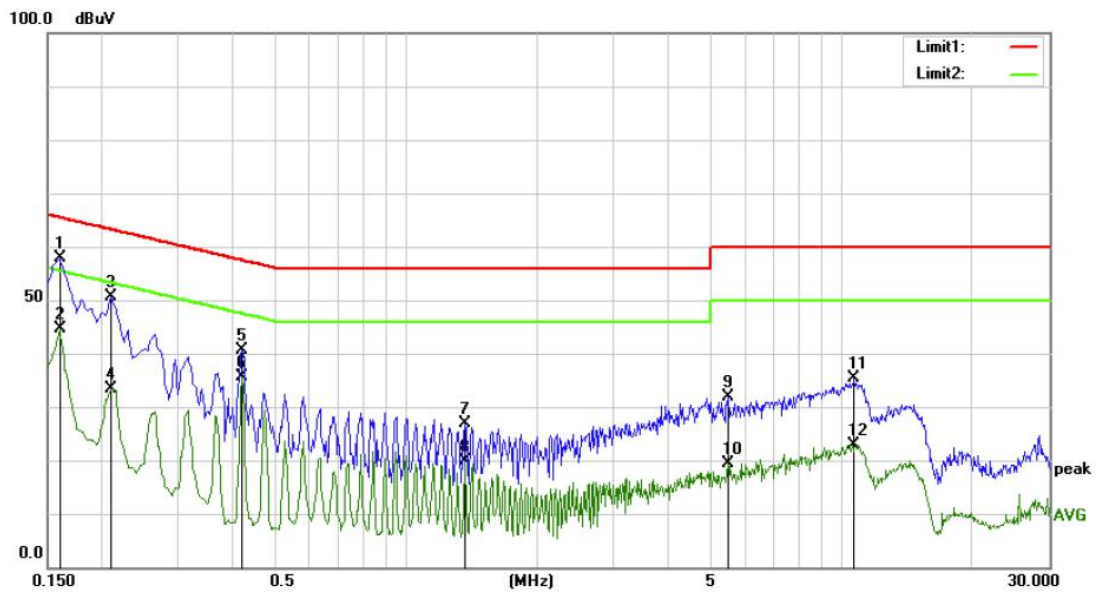
7.6.5 Test Results

Pass

Temperature :	21.9°C	ATM Pressure:	1011 mbar
Humidity :	58 %	Test Engineer:	CSL



Site Conduction #1				Phase: L1		Temperature: 21.9		
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1600	49.23	9.82	59.05	65.46	-6.41	QP
2		0.1600	33.59	9.82	43.41	55.46	-12.05	AVG
3		0.2100	40.51	10.00	50.51	63.21	-12.70	QP
4		0.2100	24.53	10.00	34.53	53.21	-18.68	AVG
5		0.2650	35.39	10.01	45.40	61.27	-15.87	QP
6		0.2650	19.23	10.01	29.24	51.27	-22.03	AVG
7		0.4200	28.65	9.86	38.51	57.45	-18.94	QP
8		0.4200	22.95	9.86	32.81	47.45	-14.64	AVG
9		4.4750	21.84	9.88	31.72	56.00	-24.28	QP
10		4.4750	6.10	9.88	15.98	46.00	-30.02	AVG
11		11.1300	25.08	10.00	35.08	60.00	-24.92	QP
12		11.1300	13.08	10.00	23.08	50.00	-26.92	AVG



Site Conduction #1 Phase: **N** Temperature: 21.9

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1600	48.05	9.82	57.87	65.46	-7.59	QP	
2		0.1600	34.73	9.82	44.55	55.46	-10.91	AVG	
3		0.2100	40.58	10.00	50.58	63.21	-12.63	QP	
4		0.2100	23.36	10.00	33.36	53.21	-19.85	AVG	
5		0.4200	30.65	9.86	40.51	57.45	-16.94	QP	
6		0.4200	25.73	9.86	35.59	47.45	-11.86	AVG	
7		1.3700	16.99	9.88	26.87	56.00	-29.13	QP	
8		1.3700	10.02	9.88	19.90	46.00	-26.10	AVG	
9		5.5050	21.97	9.91	31.88	60.00	-28.12	QP	
10		5.5050	9.41	9.91	19.32	50.00	-30.68	AVG	
11		10.7300	25.25	10.01	35.26	60.00	-24.74	QP	
12		10.7300	12.93	10.01	22.94	50.00	-27.06	AVG	

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 15.247 (b), 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..

7.7.2 Result

PASS

Temperature : 25°C ATM Pressure: 1011 mbar
Humidity : 60 % Test Engineer: XXH

The EUT integrated antenna, antenna1 gain is 1.12 dBi, antenna2 gain is 2.92 dBi.

- ☐ Antenna uses 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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