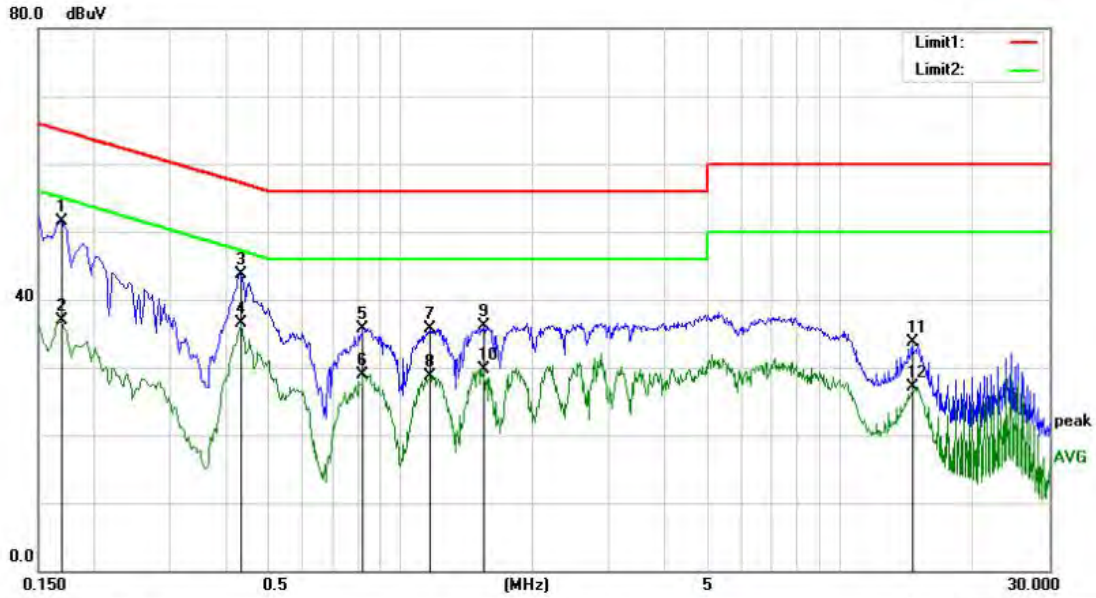
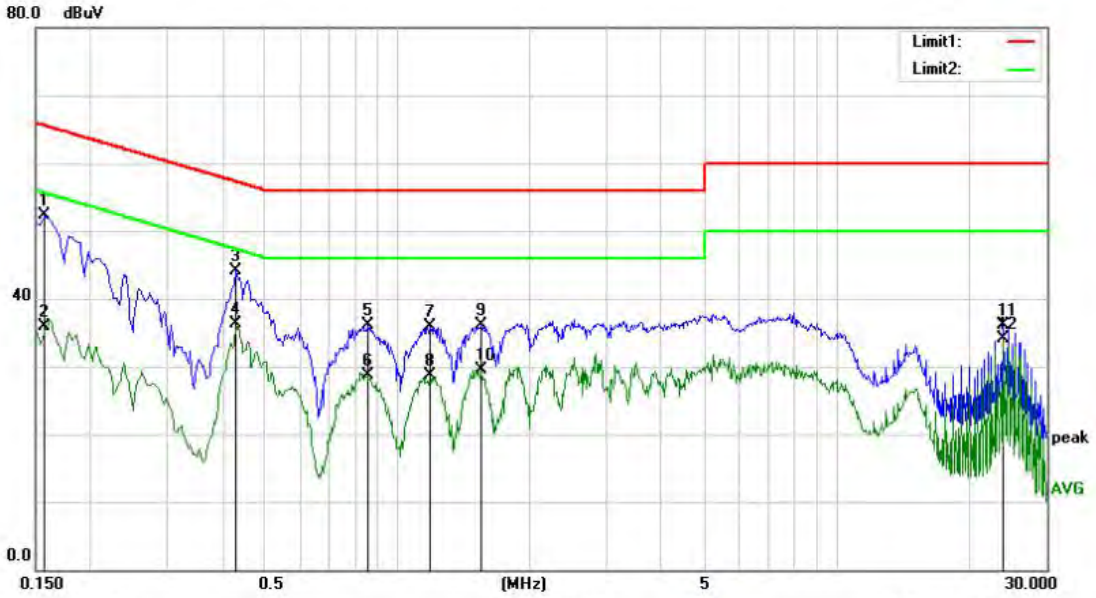


Site Conduction #2 Phase: N Temperature: 26

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	41.04	10.46	51.50	64.88	-13.38	QP	
2		0.1700	26.48	10.46	36.94	54.96	-18.02	AVG	
3		0.4340	33.42	10.37	43.79	57.17	-13.38	QP	
4	*	0.4340	26.20	10.37	36.57	47.18	-10.61	AVG	
5		0.8260	25.39	10.38	35.77	56.00	-20.23	QP	
6		0.8260	18.44	10.38	28.82	46.00	-17.18	AVG	
7		1.1660	25.22	10.40	35.62	56.00	-20.38	QP	
8		1.1660	18.39	10.40	28.79	46.00	-17.21	AVG	
9		1.5460	25.82	10.37	36.19	56.00	-19.81	QP	
10		1.5460	19.41	10.37	29.78	46.00	-16.22	AVG	
11		14.5980	23.02	10.71	33.73	60.00	-26.27	QP	
12		14.5980	16.45	10.71	27.16	50.00	-22.84	AVG	



Site Conduction #2 Phase: L1 Temperature: 26

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	41.73	10.48	52.21	65.48	-13.27	QP	
2		0.1580	25.40	10.48	35.88	55.57	-19.69	AVG	
3		0.4300	33.71	10.37	44.08	57.24	-13.16	QP	
4	*	0.4300	25.96	10.37	36.33	47.25	-10.92	AVG	
5		0.8580	25.65	10.38	36.03	56.00	-19.97	QP	
6		0.8580	18.34	10.38	28.72	46.00	-17.28	AVG	
7		1.1860	25.43	10.40	35.83	56.00	-20.17	QP	
8		1.1860	18.23	10.40	28.63	46.00	-17.37	AVG	
9		1.5540	25.75	10.37	36.12	56.00	-19.88	QP	
10		1.5540	19.20	10.37	29.57	46.00	-16.43	AVG	
11		23.7940	25.19	10.84	36.03	60.00	-23.97	QP	
12		23.7940	23.20	10.84	34.04	50.00	-15.96	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 is integrated antenna, the antenna gain as below:
Chip 1: ANT1: 3.6dBi
Chip 1: ANT2: 4.1dBi
Chip 2: ANT1: 4.7dBi
Chip 2: ANT2: 4.2dBi

☒ 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 ---