



■ Report No.: DDT-RE23081505-2E01

■ Issued Date: Oct. 13, 2023

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Globe Electric Company Inc
Address	:	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Equipment under Test	:	1-LIGHT WALL SCONCE
Model No.	:	152-2690-2, GL65000062
Trade Mark	:	GLOBE
FCC ID	:	2AQUQGL65062
Manufacturer	:	Globe Electric Company Inc
Address	:	150 Oneida, Montreal, Quebec, Canada, H9R 1A8

Issued By: Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park,
Dongguan, Guangdong, China, 523808

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REPORT

Table of Contents

	Test report declares.....	3
1	Summary of Test Results.....	5
2	General Test Information	6
2.1.	Description of EUT	6
2.2.	Accessories of EUT.....	6
2.3.	Assistant equipment used for test.....	6
2.4.	Block diagram of EUT configuration for test	6
2.5.	Deviations of test standard.....	7
2.6.	Test environment conditions	7
2.7.	Test laboratory	7
2.8.	Measurement uncertainty.....	7
3	Equipment Used During Test.....	8
4	20 dB Bandwidth	9
4.1.	Block diagram of test setup.....	9
4.2.	Limits	9
4.3.	Test procedure	9
4.4.	Test result.....	10
4.5.	Original test data	10
5	Radiated Emission	11
5.1.	Block diagram of test setup.....	11
5.2.	Limit	12
5.3.	Test procedure	12
5.4.	Test result.....	13
6	Power Line Conducted Emission	22
6.1.	Block diagram of test setup.....	22
6.2.	Power line conducted emission limits	22
6.3.	Test procedure	22
6.4.	Test result.....	23
7	Antenna Requirements	26
8	Test Setup Photograph	27
9	Photos of the EUT	29

Test Report Declare

Applicant	:	Globe Electric Company Inc
Address	:	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Equipment under Test	:	1-LIGHT WALL SCONCE
Model No.	:	152-2690-2, GL65000062
Trade Mark	:	GLOBE
Manufacturer	:	Globe Electric Company Inc
Address	:	150 Oneida, Montreal, Quebec, Canada, H9R 1A8

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C

Test procedure used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No.:	DDT-RE23081505-2E01		
Date of Receipt:	Aug. 24, 2023	Date of Test:	Aug. 24, 2023 ~ Oct. 13, 2023

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:

Damon Hu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Oct. 13, 2023	

1 Summary of Test Results

Description of Test Item	Standard	Results
20 dB Bandwidth	FCC Part 15: 15.215	Pass
Radiated Emission	FCC Part 15: 15.209	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207	Pass
Antenna Requirement	FCC Part 15: 15.203	Pass

2 General Test Information

2.1. Description of EUT

EUT Name	: 1-LIGHT WALL SCONCE
Model Number	: 152-2690-2, GL65000062
Difference of models	: Above models are identical in schematic, appearance and structure, only the Model Number is different for all the models, therefore the test performed on the model GL65000062.
EUT function description	: Please reference user manual of this device
Power Supply	: Input: AC 120V 60Hz Output: Wireless charging Max 10W
Wireless charging Operation frequency	: 115 kHz - 220kHz
Antenna Type	: Inductive loop coil antenna
Sample type	: Series production
Serial Number	: S23081505-02

Note: EUT is the abbreviation of equipment under test.

In section 15.31(m), regards to the operating frequency range less than 1 MHz, only one of channel was selected to perform the test.

2.2. Accessories of EUT

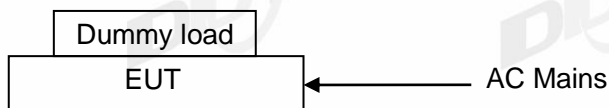
Description of Accessories	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Description of Accessories	Manufacturer	Model number	Serial No.	Other
Dummy load	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

For mode 1: Tx mode:



For mode 2: Standby mode:



Note: Scan with mode 1 and mode 2, the worst case is mode 1 Tx mode and recorded in this report.

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan,Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

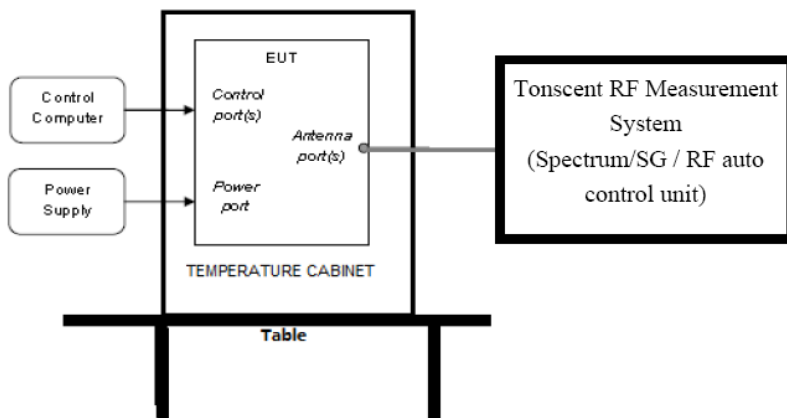
Test Item	Uncertainty
Uncertainty for Conduction emission test	3.32 dB (150 kHz - 30 MHz)
	3.72 dB (9 kHz - 150 kHz)
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz to 18 GHz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz - 18 GHz)
Bandwidth	1.1%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
<input checked="" type="checkbox"/> RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2024/07/11
Wideband Radio Communication Tester	R&S	CMW500	117491	2024/04/26
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2024/07/11
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2024/04/22
RF Control Unit	Tonscend	JS0806-2	20C8060230	2024/04/26
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2024/05/14
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A
<input checked="" type="checkbox"/> Radiation 3#chamber				
EMI TEST RECEIVER	R&S	ESU26	100472	2024/04/22
PSA Series Spectrum Analyzer	Agilent	E4447A	MY50180031	2024/04/22
Active Loop Antenna	Schwarzbeck	FMZB-1519	1519-038	2024/09/10
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	2024/07/11
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	2024/09/17
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2024/04/25
Pre-amplifier	COM-POWER	PAM-118A	18040084	2024/07/14
Pre-amplifier	COM-POWER	PAM-840A	461369	2024/04/26
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5 M	2024/04/20
RF Cable	Yuhu	JCTB810-NJ-NJ-9M+ ZT26S-SMAJ-SMAJ-1M	21123964	2024/04/22
Band Reject Filter(2400-2500 MHz)	REBES	BRM50702	G555	N/A
Band Reject Filter(5150-5880 MHz)	REBES	BRM50716	G392	N/A
High Pass Filter(8000-25000 MHz)	XB	XBLBQ-GTA67	210820-2-3	N/A
High Pass Filter(500-2000 MHz)	REBES	HPM50102	004	N/A
High Pass Filter(1200-18000 MHz)	REBES	HPM50108	056	N/A
Test Software	Tonscend	JS32-RE	V 5.0.0.1	N/A
<input checked="" type="checkbox"/> Power Line Conducted Emissions Test 1#				
Test Receiver	R&S	ESCI	100551	2024/07/10
LISN 1	R&S	ENV216	101109	2024/07/10
LISN 2	R&S	ESH2-Z5	100309	2024/07/11
Pulse Limiter	R&S	ESH3-Z2	101242	2024/07/14
CE Cable 1	HUBSER	N/A	W10.01	2024/07/14
Test software	Audix	E3	V 6.11111b	N/A

4 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

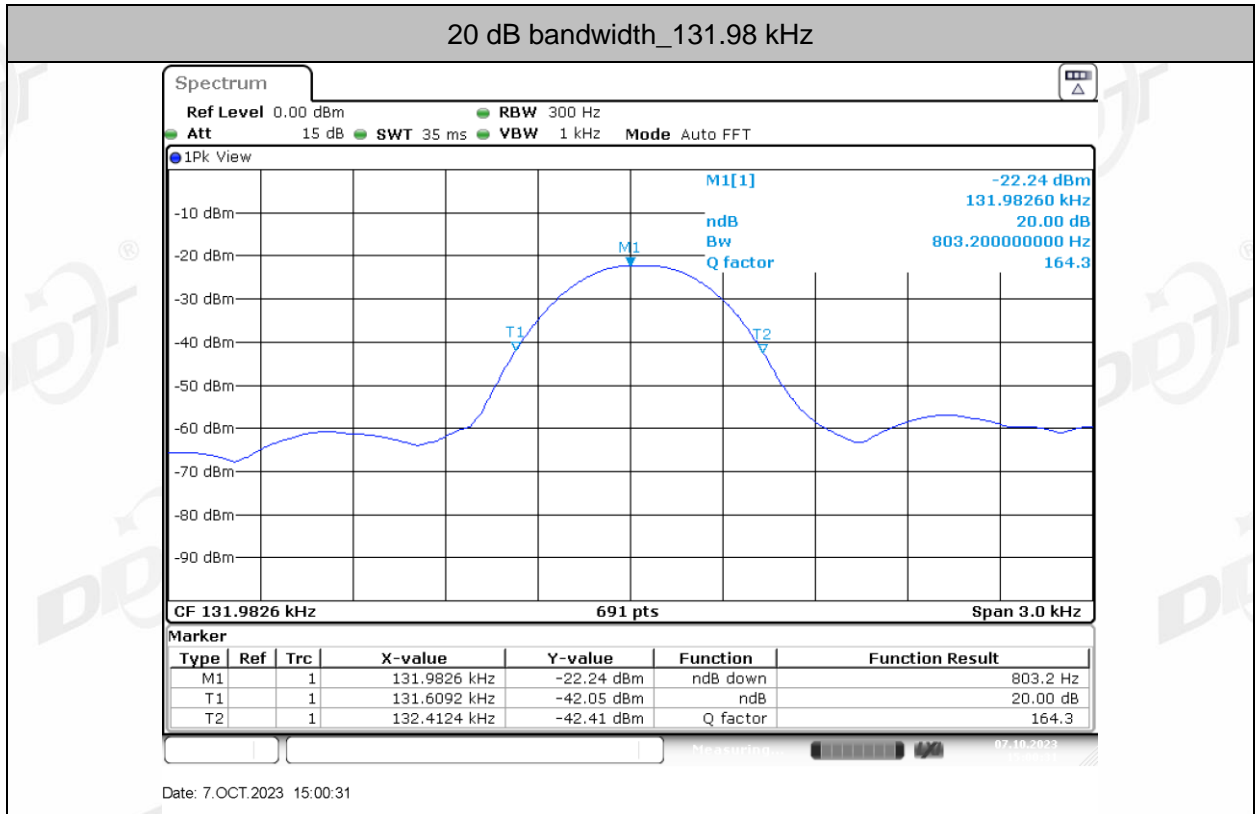
4.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 Hz RBW and 1 kHz VBW. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

4.4. Test result

Freq. (kHz)	20 dB bandwidth Result (kHz)	Conclusion
131.98	0.803	Pass

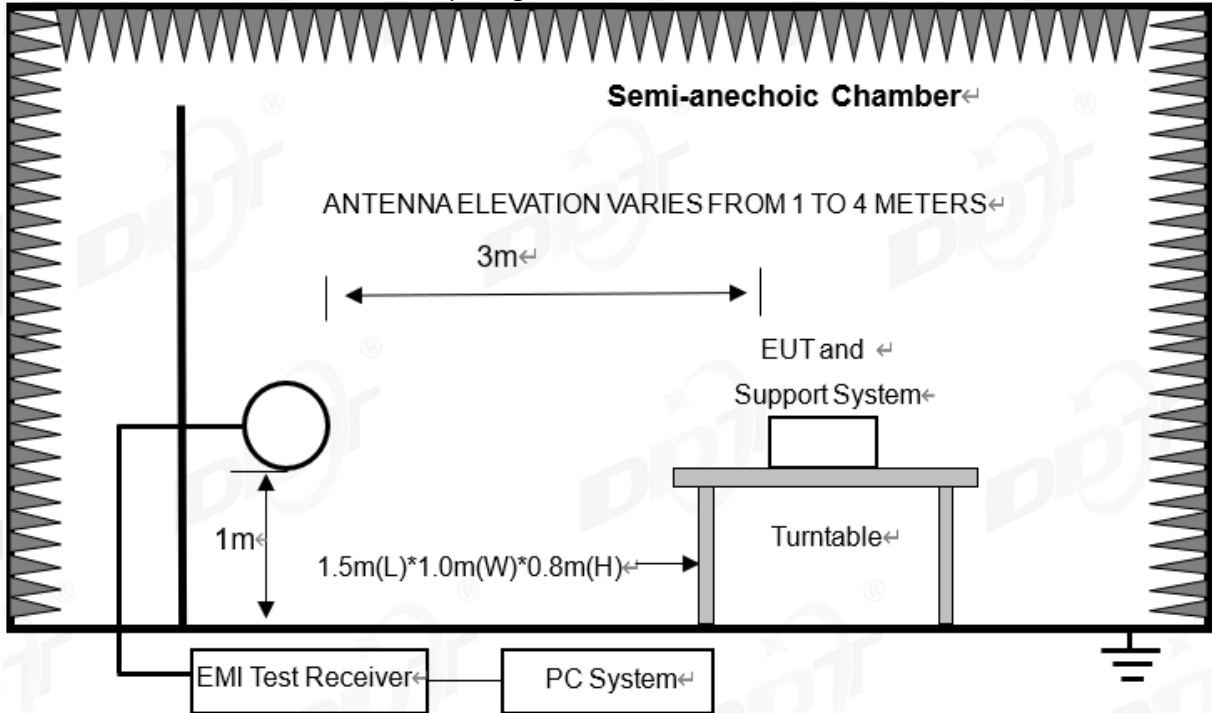
4.5. Original test data



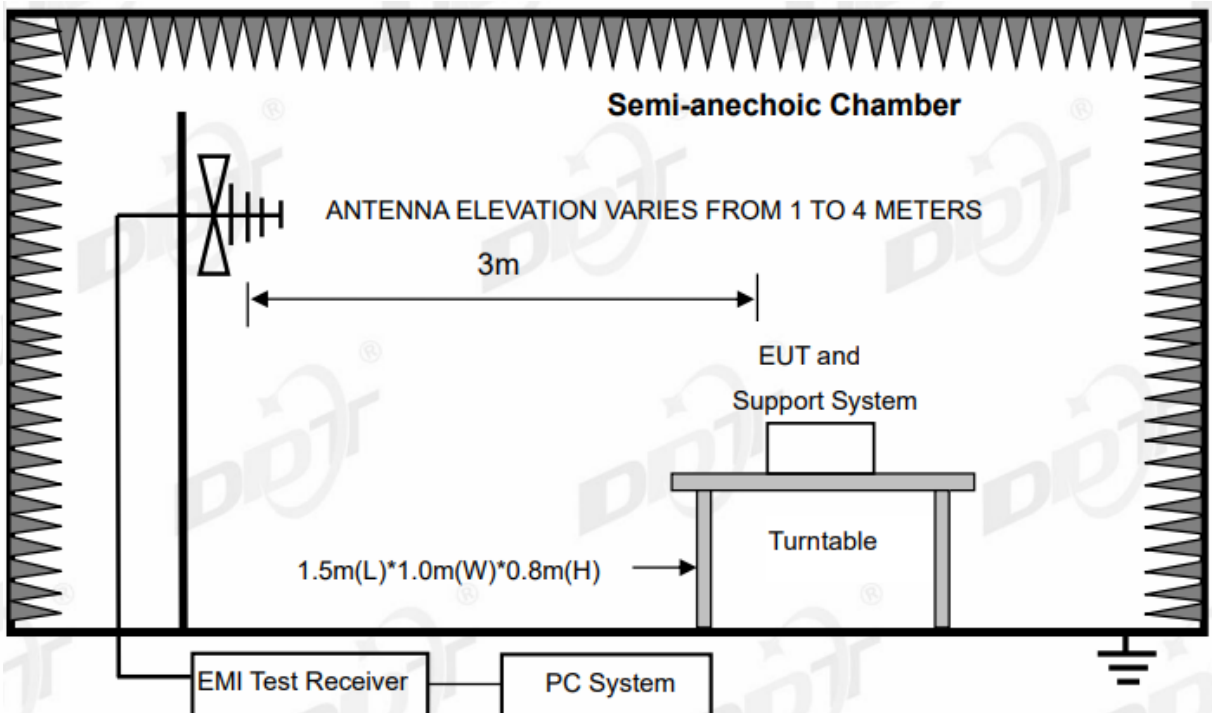
5 Radiated Emission

5.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



5.2. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$	$67.6-20\log(F)$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$	$87.6-20\log(F)$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 40\text{Log}(300\text{m}/3\text{m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40$$

5.3. Test procedure

(1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 1 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produce highest emissions. Spectrum frequency from 9 kHz to 1 GHz (tenth harmonic of fundamental frequency) was investigated.
- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

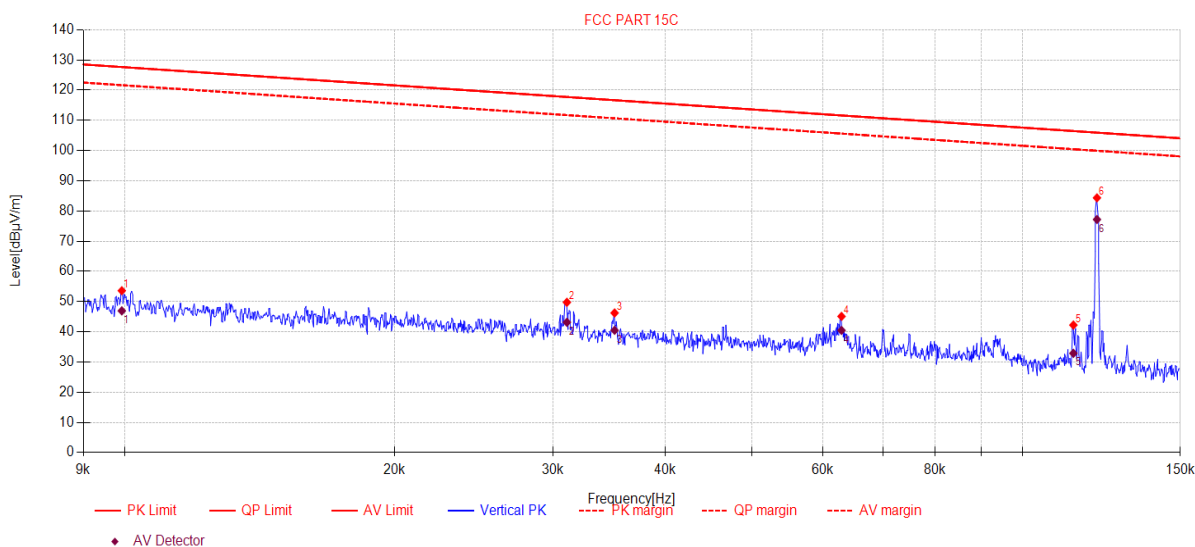
5.4. Test result

Pass. (See below detailed test result)

Below 30 MHz:

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9k-30M\20230928-010554_V
Memo: X



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	33.03	20.50	0.07	0.00	53.60	127.66	74.06	PK	Parallel
2	0.03	29.29	20.40	0.07	0.00	49.76	117.74	67.98	PK	Parallel
3	0.04	25.75	20.40	0.07	0.00	46.22	116.68	70.46	PK	Parallel
4	0.06	24.62	20.40	0.07	0.00	45.09	111.62	66.53	PK	Parallel
5	0.11	21.87	20.28	0.07	0.00	42.22	106.46	64.24	PK	Parallel
6	0.12	64.04	20.24	0.07	0.00	84.35	105.94	21.59	PK	Parallel

Final Data List

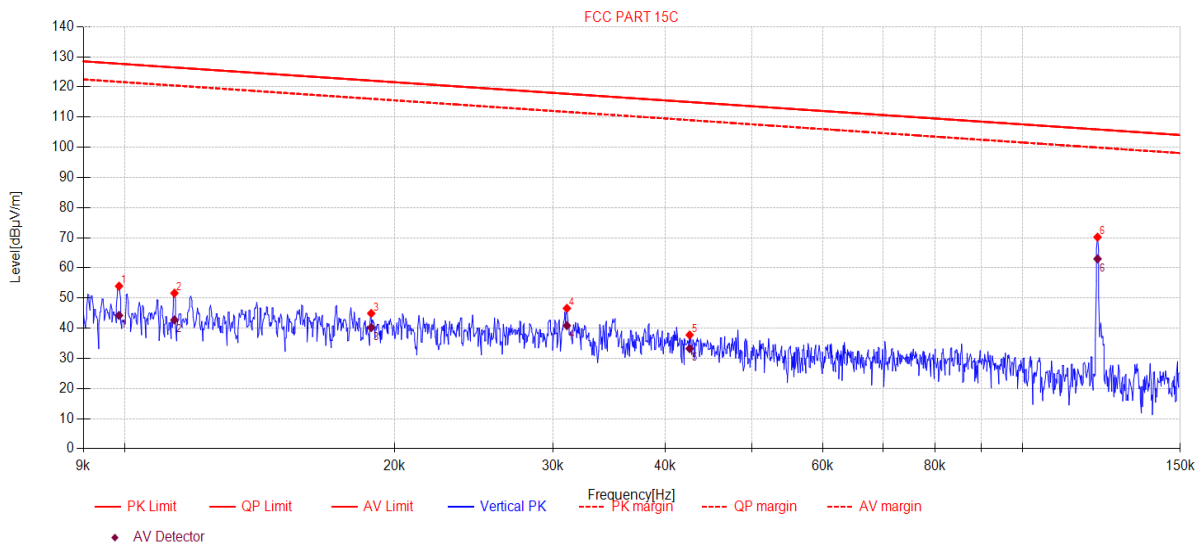
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	26.36	20.50	0.07	0.00	46.93	127.68	80.75	AV	Parallel
2	0.03	22.67	20.40	0.07	0.00	43.14	117.74	74.60	AV	Parallel
3	0.04	20.01	20.40	0.07	0.00	40.48	116.67	76.19	AV	Parallel
4	0.06	19.98	20.40	0.07	0.00	40.45	111.63	71.18	AV	Parallel
5	0.11	12.53	20.28	0.07	0.00	32.88	106.46	73.58	AV	Parallel
6	0.12	56.86	20.24	0.07	0.00	77.17	105.94	28.77	AV	Parallel

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9K-30M\20230928-010710_V
Memo: Y



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	33.37	20.50	0.07	0.00	53.94	127.72	73.78	PK	Perpendicular
2	0.01	31.04	20.50	0.07	0.00	51.61	126.48	74.87	PK	Perpendicular
3	0.02	24.34	20.50	0.07	0.00	44.91	122.10	77.19	PK	Perpendicular
4	0.03	26.11	20.40	0.07	0.00	46.58	117.74	71.16	PK	Perpendicular
5	0.04	17.27	20.40	0.07	0.00	37.74	115.01	77.27	PK	Perpendicular
6	0.12	49.89	20.24	0.07	0.00	70.20	105.92	35.72	PK	Perpendicular

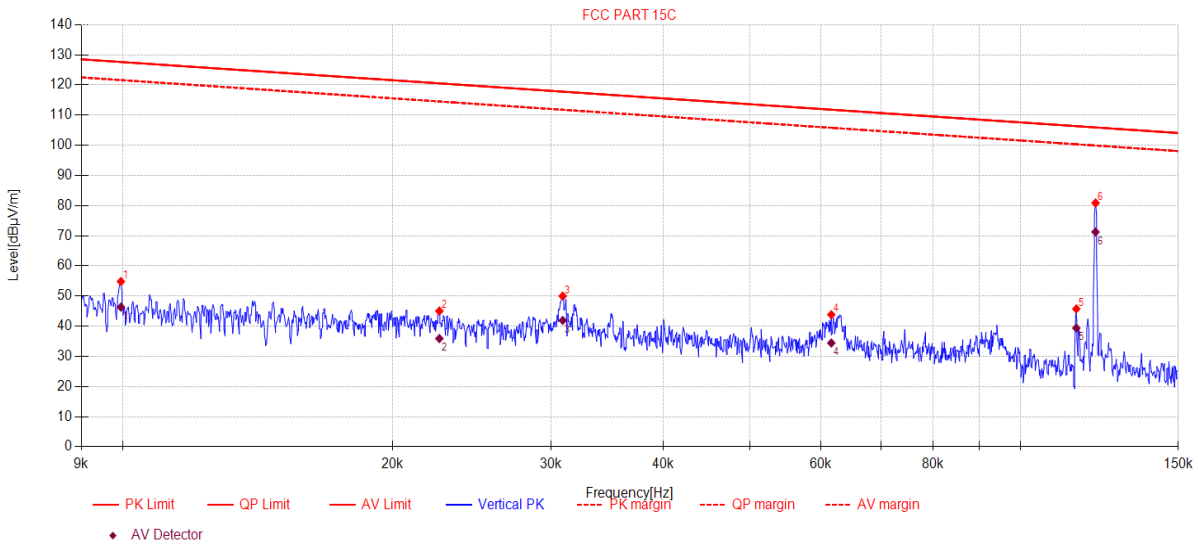
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	23.65	20.50	0.07	0.00	44.22	127.68	83.46	AV	Perpendicular
2	0.01	22.17	20.50	0.07	0.00	42.74	126.46	83.72	AV	Perpendicular
3	0.02	19.62	20.50	0.07	0.00	40.19	122.11	81.92	AV	Perpendicular
4	0.03	20.36	20.40	0.07	0.00	40.83	117.74	76.91	AV	Perpendicular
5	0.04	12.76	20.40	0.07	0.00	33.23	115.01	81.78	AV	Perpendicular
6	0.12	42.68	20.24	0.07	0.00	62.99	105.92	42.93	AV	Perpendicular

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9k-30M\20230928-010729_V
Memo: Z



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	34.26	20.50	0.07	0.00	54.83	127.63	72.80	PK	Round-parallel
2	0.02	24.48	20.47	0.07	0.00	45.02	120.54	75.52	PK	Round-parallel
3	0.03	29.50	20.40	0.07	0.00	49.97	117.79	67.82	PK	Round-parallel
4	0.06	23.35	20.40	0.07	0.00	43.82	111.81	67.99	PK	Round-parallel
5	0.12	25.40	20.27	0.07	0.00	45.74	106.35	60.61	PK	Round-parallel
6	0.12	60.57	20.24	0.07	0.00	80.88	105.92	25.04	PK	Round-parallel

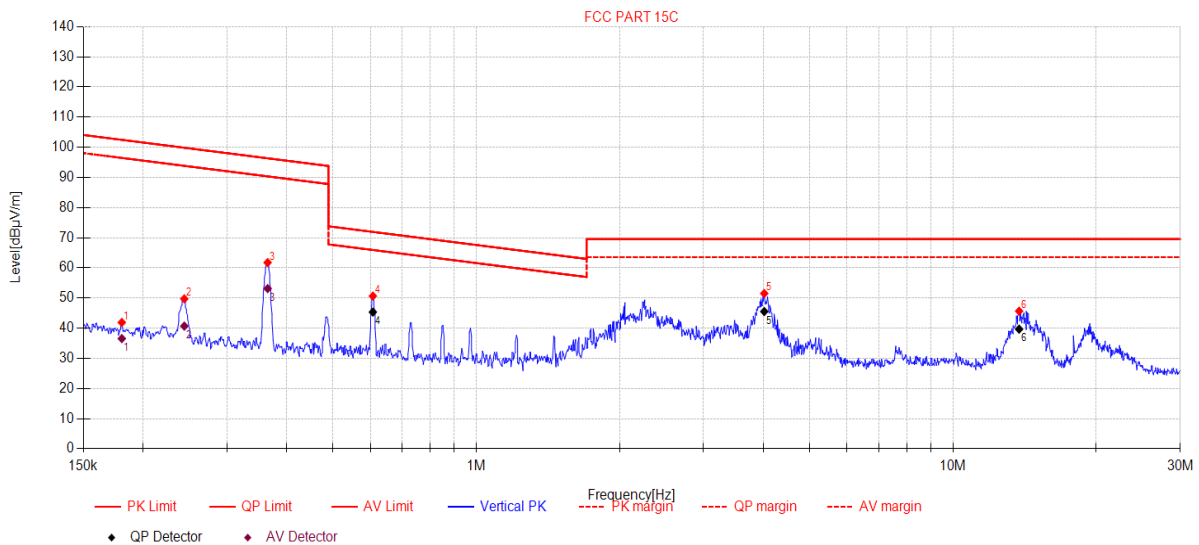
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.01	25.75	20.50	0.07	0.00	46.32	127.60	81.28	AV	Round-parallel
2	0.02	15.36	20.48	0.07	0.00	35.91	120.55	84.64	AV	Round-parallel
3	0.03	21.44	20.40	0.07	0.00	41.91	117.80	75.89	AV	Round-parallel
4	0.06	13.96	20.40	0.07	0.00	34.43	111.81	77.38	AV	Round-parallel
5	0.12	19.02	20.27	0.07	0.00	39.36	106.35	66.99	AV	Round-parallel
6	0.12	50.94	20.24	0.07	0.00	71.25	105.92	34.67	AV	Round-parallel

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9k-30M\20230928-011127_V
Memo: X



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.18	21.72	20.12	0.07	0.00	41.91	102.47	60.56	PK	Parallel
2	0.24	29.51	20.15	0.07	0.00	49.73	99.85	50.12	PK	Parallel
3	0.37	41.46	20.22	0.08	0.00	61.76	96.35	34.59	PK	Parallel
4	0.61	30.26	20.32	0.08	0.00	50.66	71.94	21.28	PK	Parallel
5	4.02	30.91	20.45	0.15	0.00	51.51	69.54	18.03	PK	Parallel
6	13.77	25.09	20.30	0.28	0.00	45.67	69.54	23.87	PK	Parallel

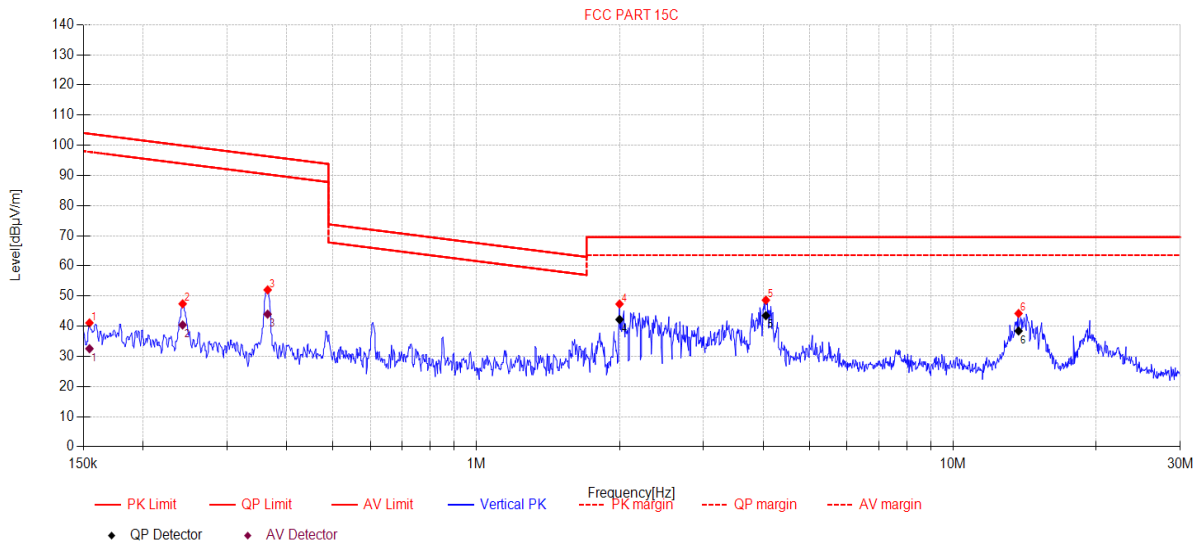
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.18	16.36	20.12	0.07	0.00	36.55	102.47	65.92	AV	Parallel
2	0.24	20.47	20.15	0.07	0.00	40.69	99.85	59.16	AV	Parallel
3	0.37	32.84	20.22	0.08	0.00	53.14	96.35	43.21	AV	Parallel
4	0.61	24.93	20.32	0.08	0.00	45.33	71.94	26.61	QP	Parallel
5	4.02	24.93	20.45	0.15	0.00	45.53	69.54	24.01	QP	Parallel
6	13.77	19.11	20.30	0.28	0.00	39.69	69.54	29.85	QP	Parallel

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9K-30M\20230928-011243_V
Memo: Y



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.15	20.92	20.10	0.07	0.00	41.09	103.83	62.74	PK	Perpendicular
2	0.24	27.20	20.15	0.07	0.00	47.42	99.92	52.50	PK	Perpendicular
3	0.37	31.73	20.22	0.08	0.00	52.03	96.35	44.32	PK	Perpendicular
4	2.00	26.81	20.40	0.13	0.00	47.34	69.54	22.20	PK	Perpendicular
5	4.05	28.03	20.45	0.15	0.00	48.63	69.54	20.91	PK	Perpendicular
6	13.74	23.64	20.30	0.27	0.00	44.21	69.54	25.33	PK	Perpendicular

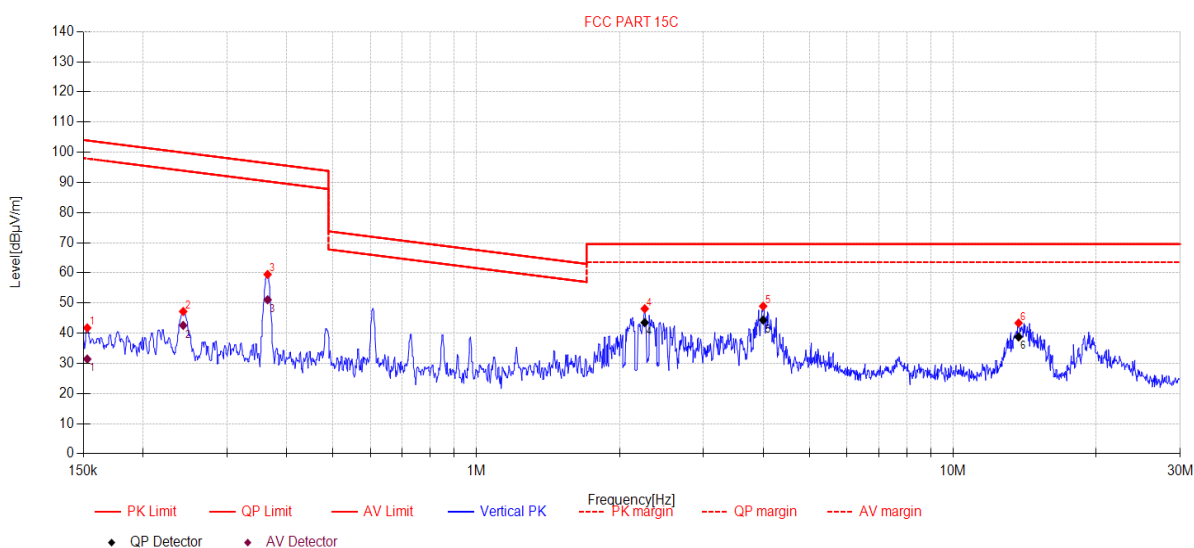
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	0.15	12.36	20.10	0.07	0.00	32.53	103.83	71.30	AV	Perpendicular
2	0.24	20.18	20.15	0.07	0.00	40.40	99.92	59.52	AV	Perpendicular
3	0.37	23.69	20.22	0.08	0.00	43.99	96.35	52.36	AV	Perpendicular
4	2.00	21.68	20.40	0.13	0.00	42.21	69.54	27.33	QP	Perpendicular
5	4.05	22.9	20.45	0.15	0.00	43.50	69.54	26.04	QP	Perpendicular
6	13.74	17.85	20.30	0.27	0.00	38.42	69.54	31.12	QP	Perpendicular

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 9k-30M\20230928-011302_V
Memo: Z



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.15	21.59	20.10	0.07	0.00	41.76	103.92	62.16	PK	Round-parallel
2	0.24	26.97	20.15	0.07	0.00	47.19	99.89	52.70	PK	Round-parallel
3	0.37	39.19	20.22	0.08	0.00	59.49	96.35	36.86	PK	Round-parallel
4	2.26	27.58	20.40	0.13	0.00	48.11	69.54	21.43	PK	Round-parallel
5	4.00	28.35	20.45	0.15	0.00	48.95	69.54	20.59	PK	Round-parallel
6	13.74	22.80	20.30	0.27	0.00	43.37	69.54	26.17	PK	Round-parallel

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.15	11.25	20.10	0.07	0.00	31.42	103.92	72.50	AV	Round-parallel
2	0.24	22.36	20.15	0.07	0.00	42.58	99.89	57.31	AV	Round-parallel
3	0.37	30.78	20.22	0.08	0.00	51.08	96.35	45.27	AV	Round-parallel
4	2.26	22.98	20.40	0.13	0.00	43.51	69.54	26.03	QP	Round-parallel
5	4.00	23.75	20.45	0.15	0.00	44.35	69.54	25.19	QP	Round-parallel
6	13.74	18.2	20.30	0.27	0.00	38.77	69.54	30.77	QP	Round-parallel

Note:

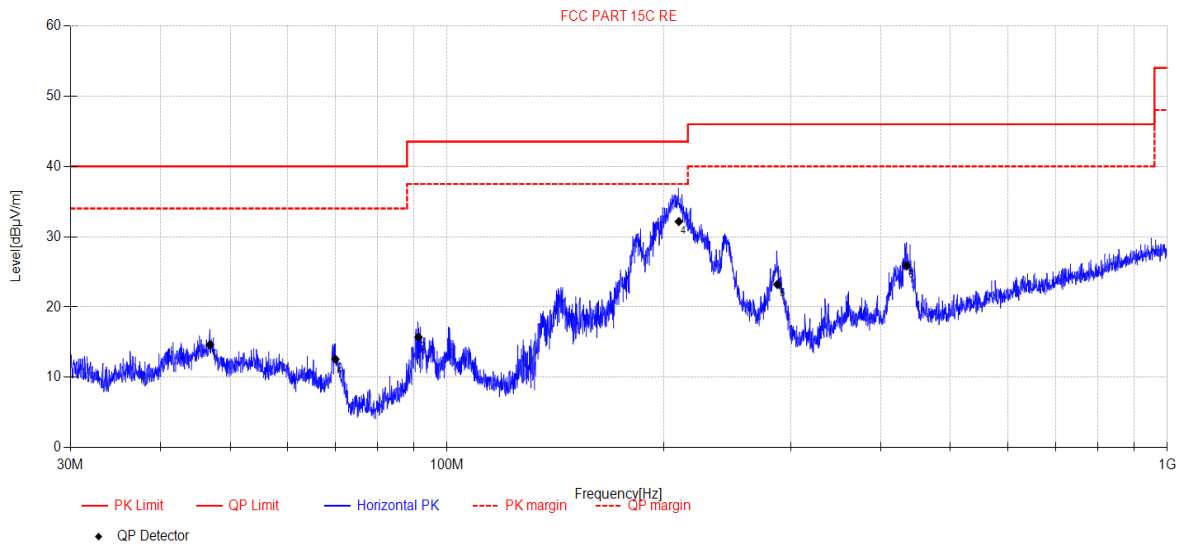
- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

Above 30 MHz:

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 1G\20230928-014910_H

Memo:



Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	46.86	27.53	13.19	4.69	-30.75	14.66	40.00	25.34	QP	Horizontal
2	69.98	29.87	8.51	4.79	-30.57	12.60	40.00	27.40	QP	Horizontal
3	91.28	31.82	9.66	4.96	-30.73	15.71	43.50	27.79	QP	Horizontal
4	209.82	46.06	10.90	5.77	-30.57	32.16	43.50	11.34	QP	Horizontal
5	287.46	34.51	12.95	6.10	-30.34	23.22	46.00	22.78	QP	Horizontal
6	434.44	33.23	15.89	6.78	-30.03	25.87	46.00	20.13	QP	Horizontal

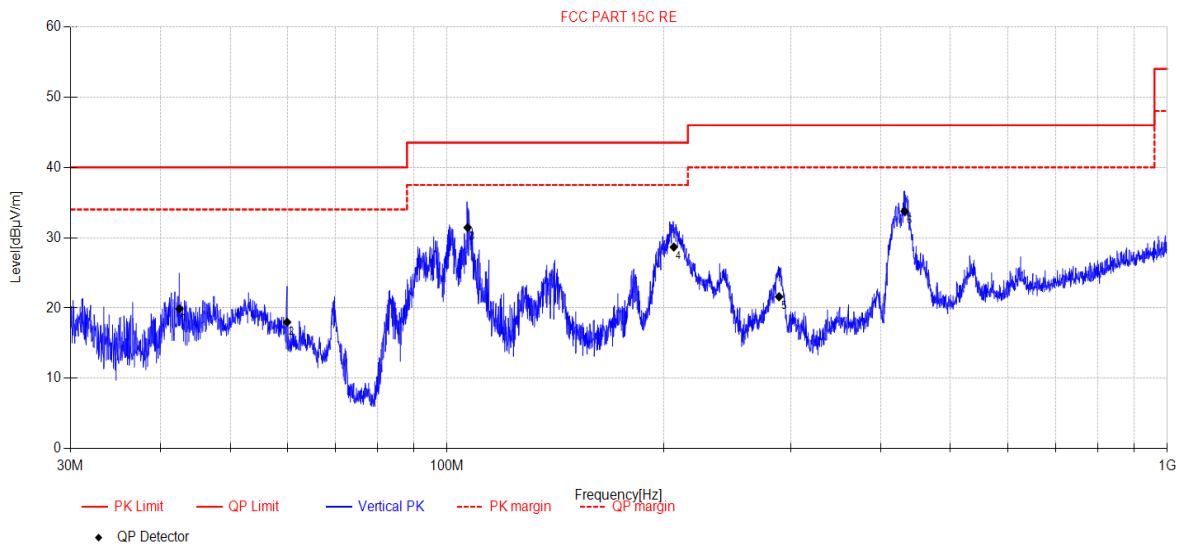
Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-28 **Tested By:** Johnson Huang
EUT: 1-LIGHT WALL SCONCE **Model Number:** GL65000062
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.6°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081505-2E GL65000062\FCC BELOW 1G\20230928-015036_V

Memo:



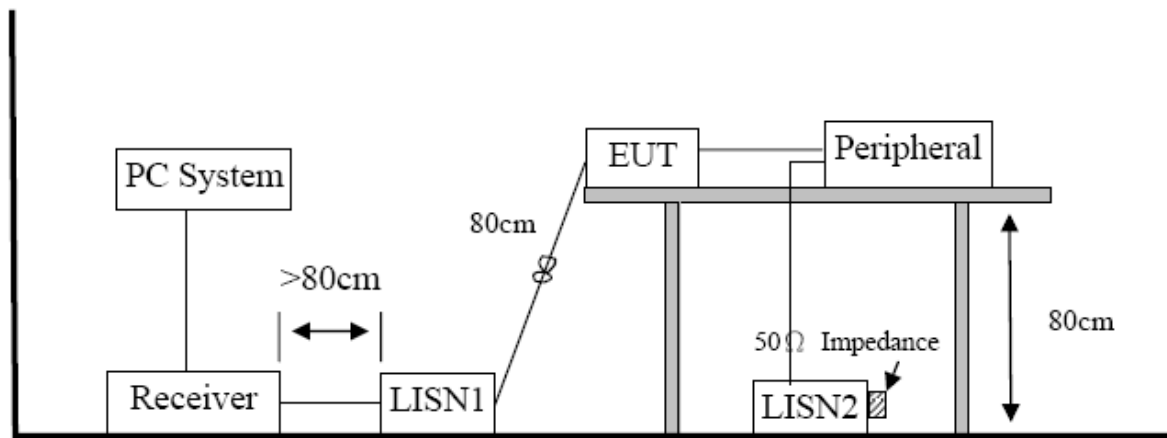
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	42.51	33.47	12.60	4.63	-30.81	19.89	40.00	20.11	QP	Vertical
2	59.98	31.97	11.90	4.76	-30.63	18.00	40.00	22.00	QP	Vertical
3	106.81	46.41	10.82	5.10	-30.88	31.45	43.50	12.05	QP	Vertical
4	206.46	42.66	10.83	5.76	-30.58	28.67	43.50	14.83	QP	Vertical
5	289.07	32.86	12.98	6.10	-30.33	21.61	46.00	24.39	QP	Vertical
6	432.01	41.18	15.84	6.77	-30.04	33.75	46.00	12.25	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

6 Power Line Conducted Emission

6.1. Block diagram of test setup



6.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 6.1 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

6.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

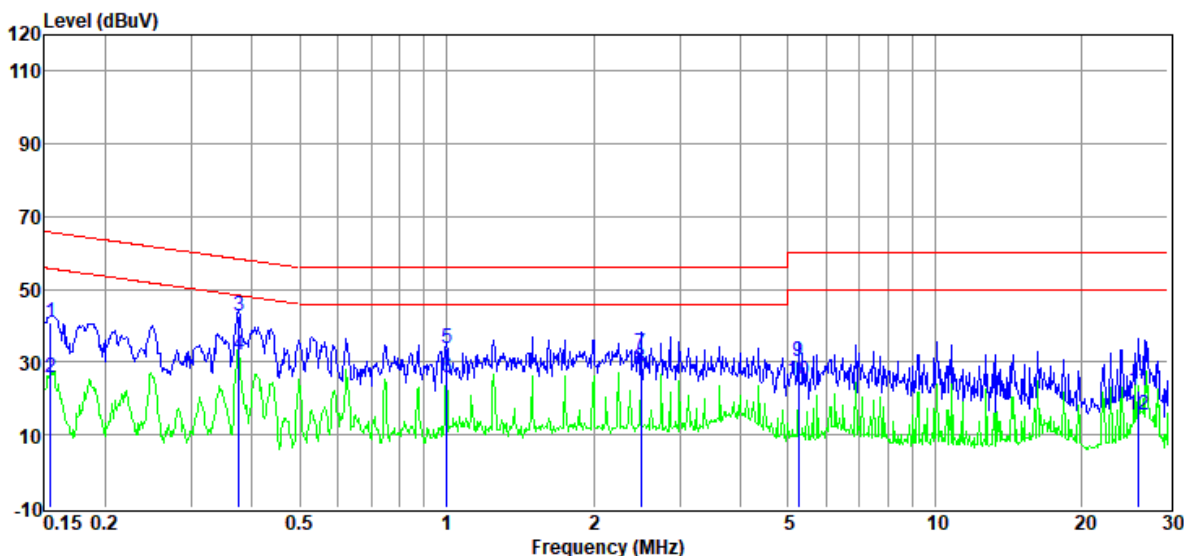
Note2: "----" means Peak detection; "-----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2023 CE report data\Q23081505-2E\FCC-1.EM6
Test Date : 2023-09-28 **Tested By** : Johnson Huang
EUT : 1-LIGHT WALL SCONCE **Model Number** : GL65000062
Power Supply : AC 120V/60Hz **Test Mode** : Working mode
Condition : TEMP:22.6°C, RH:56.6% **LISN** : 2022 1# ENV216/LINE
Memo :

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	20.59	9.62	0.92	9.68	40.81	65.74	-24.93	QP	LINE
2	0.15	5.60	9.62	0.92	9.68	25.82	55.74	-29.92	Average	LINE
3	0.38	22.36	9.73	0.86	9.70	42.65	58.39	-15.74	QP	LINE
4	0.38	11.82	9.73	0.86	9.70	32.11	48.39	-16.28	Average	LINE
5	1.00	14.05	9.50	0.67	9.73	33.95	56.00	-22.05	QP	LINE
6	1.00	5.99	9.50	0.67	9.73	25.89	46.00	-20.11	Average	LINE
7	2.50	12.32	9.57	0.61	9.77	32.27	56.00	-23.73	QP	LINE
8	2.50	8.27	9.57	0.61	9.77	28.22	46.00	-17.78	Average	LINE
9	5.25	10.15	9.55	0.51	9.79	30.00	60.00	-30.00	QP	LINE
10	5.25	5.22	9.55	0.51	9.79	25.07	50.00	-24.93	Average	LINE
11	26.14	1.99	9.63	0.54	9.91	22.07	60.00	-37.93	QP	LINE
12	26.14	-4.52	9.63	0.54	9.91	15.56	50.00	-34.44	Average	LINE

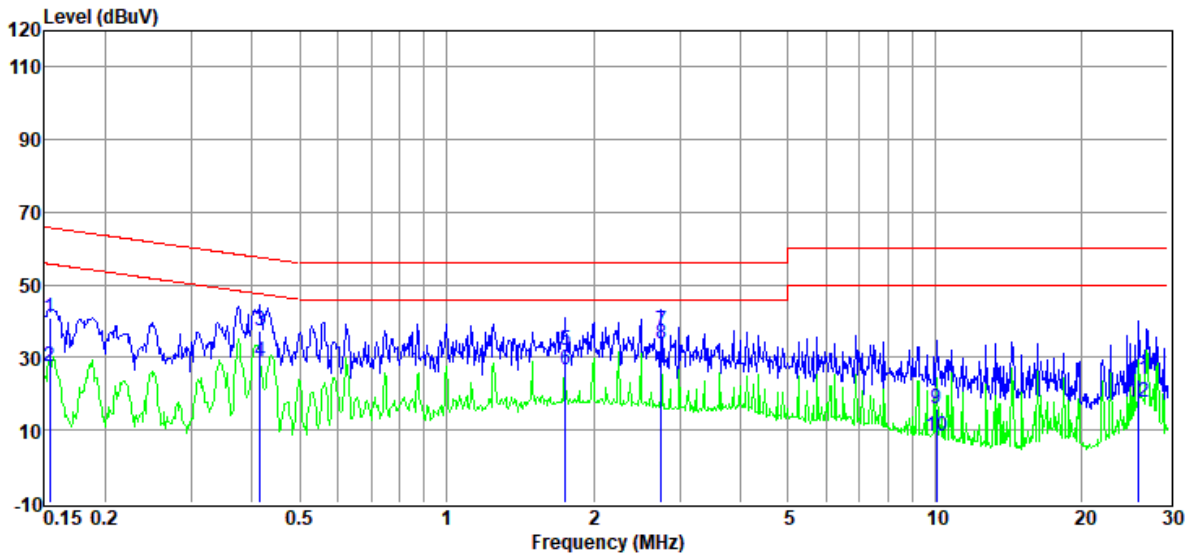
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2023 CE report data\Q23081505-2E\FCC-1.EM6
Test Date : 2023-09-28 **Tested By** : Johnson Huang
EUT : 1-LIGHT WALL SCONCE **Model Number** : GL65000062
Power Supply : AC 120V/60Hz **Test Mode** : Working mode
Condition : TEMP:22.6°C, RH:56.6% **LISN** : 2022 1# ENV216/NEUTRAL
Memo :

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	20.30	9.81	0.92	9.68	40.71	65.78	-25.07	QP	NEUTRAL
2	0.15	7.27	9.81	0.92	9.68	27.68	55.78	-28.10	Average	NEUTRAL
3	0.41	17.27	9.66	0.85	9.71	37.49	57.55	-20.06	QP	NEUTRAL
4	0.41	8.80	9.66	0.85	9.71	29.02	47.55	-18.53	Average	NEUTRAL
5	1.75	11.88	9.70	0.65	9.75	31.98	56.00	-24.02	QP	NEUTRAL
6	1.75	6.31	9.70	0.65	9.75	26.41	46.00	-19.59	Average	NEUTRAL
7	2.75	17.24	9.70	0.60	9.77	37.31	56.00	-18.69	QP	NEUTRAL
8	2.75	13.86	9.70	0.60	9.77	33.93	46.00	-12.07	Average	NEUTRAL
9	10.07	-3.80	9.80	0.21	9.82	16.03	60.00	-43.97	QP	NEUTRAL
10	10.07	-11.69	9.80	0.21	9.82	8.14	50.00	-41.86	Average	NEUTRAL
11	26.14	3.82	9.80	0.54	9.91	24.07	60.00	-35.93	QP	NEUTRAL
12	26.14	-2.37	9.80	0.54	9.91	17.88	50.00	-32.12	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

7 Antenna Requirements

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. 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.

Conclusion: The antenna used for this product is inductive loop coil antenna and that no antenna other than that furnished by the responsible party shall be used with the device.

9 Photos of the EUT

Please refer to appendix I.

END OF REPORT