TEST REPORT

FCC Rules Part 15.247

Report Reference No..... :	**MTEB23070255-R1**	
FCC ID..... :	**2AB2Q-A800SG-G1T**	
Compiled by (position+printed name+signature):	File administrators Alisa Luo	
Supervised by (position+printed name+signature):	Test Engineer Sunny Deng	
Approved by (position+printed name+signature):	Manager Yvette Zhou	
Date of issue..... :	Jul.24,2023	
Representative Laboratory Name .....:	**Shenzhen Most Technology Service Co., Ltd.**	
Address ..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.	
Applicant's name..... :	**LEEDARSON LIGHTING CO., LTD.**	
Address ..... :	Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China	
Test specification/ Standard.....**:**	**FCC Rules Part 15.247**	
TRF Originator..... :	Shenzhen Most Technology Service Co., Ltd.	

Test item description .....:	Smart LED Lamp
TradeMark·····:	LEEDARSON
Manufacturer ..... :	1:LEEDARSON LIGHTING CO., LTD. 2:LEEDARSON IOT TECHNOLOGY (THAILAND) CO., LTD.
Model/Type reference..... :	12CFA1960WRGB01
Listed Models ..... :	13aFS-A800SG-G1T-xx, 12CFA1960WRGBxx 13aFS-ST800SG-G1T-xx, 12CFST1960RGBxx 13aFA-G800SG-G1T-xx, 12CFG2560WRGBxx (Where "y" may be "A" to "Z", which designates for different enclosure pattern design; "xx" may be "00" to "99", which designates for different beam angle, color of eyelet contact, different package of style and CCT.)
Modulation Type ..... :	GFSK
Operation Frequency..... :	From 2402MHz to 2480MHz
Hardware Version.....	wifi 2.4G+ble 4.2
Software Version	Hubspace
Rating ..... :	120V, 60Hz, 117mA, 8.5W

Result..... : PASS

T E S T R E P O R T

Equipment under Test	:	Smart LED Lamp
Model /Type	:	12CFA1960WRGB01
Listed Models		13aFS-A800SG-G1T-xx, 12CFA1960WRGBxx 13aFS-ST800SG-G1T-xx, 12CFST1960RGBxx 13aFA-G800SG-G1T-xx, 12CFG2560WRGBxx (Where "y" may be "A" to "Z", which designates for different enclosure pattern design; "xx" may be "00" to "99", which designates for different beam angle, color of eyelet contact, different package of style and CCT.)
Remark		Their electrical circuit design,layout components used and internal wiring are identical,Only the beam angle, color of eyelet contact, package of style and CCT are different.
Applicant	:	LEEDARSON LIGHTING CO., LTD.
Address	:	Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China
Manufacturer(1)	:	LEEDARSON LIGHTING CO., LTD.
Address(1)	:	Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou City, Fujian Province, P.R.China
Manufacturer(2)	:	LEEDARSON IOT TECHNOLOGY (THAILAND) CO., LTD.
Address(2)	:	71, Moo5,Wellgrow Industrial Easte. Bang Samak, Bang Pakong District, Chachoengsao 24130

Test Result:	**PASS**

Contents

1. REVISION HISTORY 5

2. TEST STANDARDS 6

3. SUMMARY 7

3.1. General Remarks 7
3.2. Product Description 7
3.3. Equipment Under Test 7
3.4. Short description of the Equipment under Test (EUT) 7
3.5. EUT operation mode 8
3.6. Block Diagram of Test Setup 8
3.7. Test Item (Equipment Under Test) Description* 8
3.8. Auxiliary Equipment (AE) Description 8
3.9. Antenna Information* 9
3.10. EUT configuration 9
3.11. Modifications 9

4. TEST ENVIRONMENT 10

4.1. Address of the test laboratory 10
4.2. Environmental conditions 10
4.3. Test Description 11
4.4. Statement of the measurement uncertainty 11
4.5. Equipments Used during the Test 12

5. TEST CONDITIONS AND RESULTS 13

5.1. AC Power Conducted Emission 13
5.2. Radiated Emission 16

5. TEST SETUP PHOTOS OF THE EUT 23

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	Jul.24,2023	Initial Issue	Alisa Luo

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:
FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

3 . SUMMARY

3.1. General Remarks

Date of receipt of test sample	:	2023.07.13
Testing commenced on	:	2023.07.14
Testing concluded on	:	2023.07.24

3.2. Product Description

Product Name:	Smart LED Lamp
Model/Type reference:	12CFA1960WRGB01
Power Supply:	120V, 60Hz, 117mA, 8.5W
Testing sample ID:	MTYP02095
Bluetooth :	
Supported Type:	BLE
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	Internal monopole antenna
Antenna gain:	-3.45dBi

3.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	●	120V / 60Hz
		○	12 V DC	○	24 V DC
		○	Other (specified in blank below)		

3.4. Short description of the Equipment under Test (EUT)

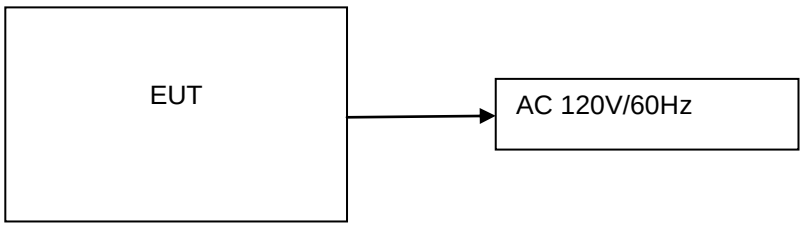
This is a Smart LED Lamp For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	**2402**	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	**2440**	**39**	**2480**

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	***/***	***/***	***/***	***/***
AE 2	-	***/***	***/***	***/***

3.9. Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	Internal monopole antenna	2.4 – 2.8 GHz	---	-3.45dBi
Antenna 2	/	/	/	/	/

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

●	ADAPTER	M/N:	
		Manufacturer:	

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

Temperature:	21.6 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

Conducted testing：

Temperature:	21.6 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

4.3. Test Description

FCC and IC Requirements		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247 (a)(2)	6dB Bandwidth & 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247 (e)	Power Spectral Density	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS

Remark:
1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5. Equipments Used during the Test

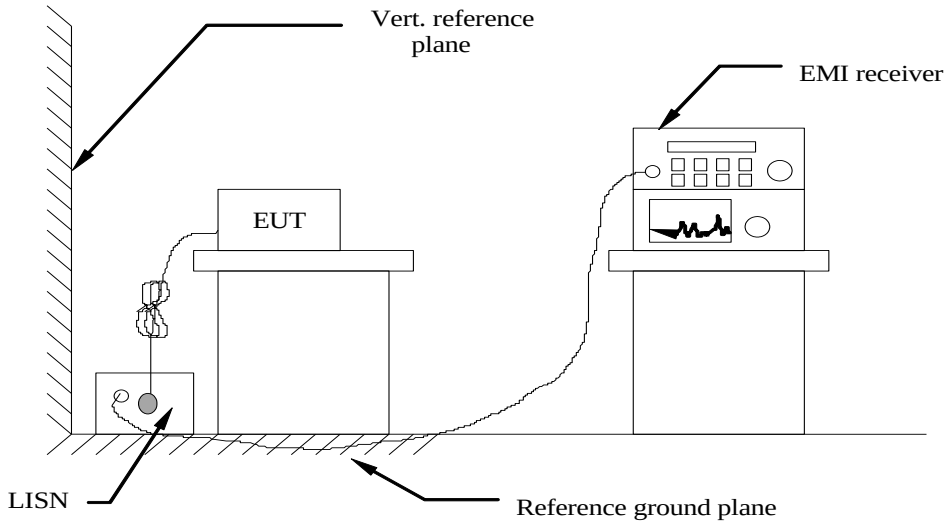
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2023/03/17
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2023/03/17
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2023/03/17
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2023/03/17
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2023/03/17
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2023/03/17
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2023/03/17
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2023/03/17
9	Horn antenna	R&S	OBH100400	26999002	/	2023/03/17
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2023/03/17
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2023/03/17
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2023/03/17
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2023/03/17
14	Pre-amplifier	EMCI	EMC051845SE	MT-E391	/	2023/03/17
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2023/03/17
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2023/03/17
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2023/03/17
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2023/03/17
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2023/03/17

Note: 1. The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2 Support equipment, if needed, was placed as per ANSI C63.10-2013
3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4 The EUT received DC5V power, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5 All support equipments received AC power from a second LISN, if any.
6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

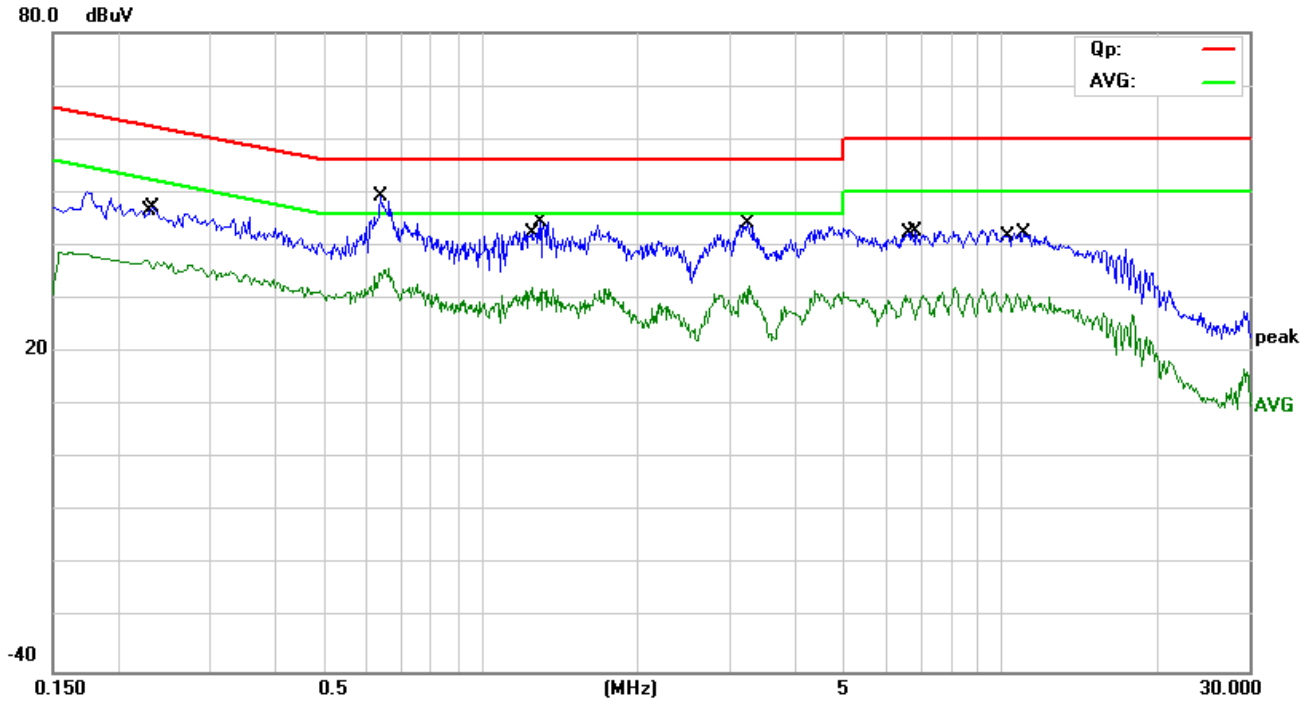
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

TEST RESULTS

Remark:

1. GFSK modes were test at Low, Middle, and High channel; only the worst result of GFSK Middle Channel was reported as below:

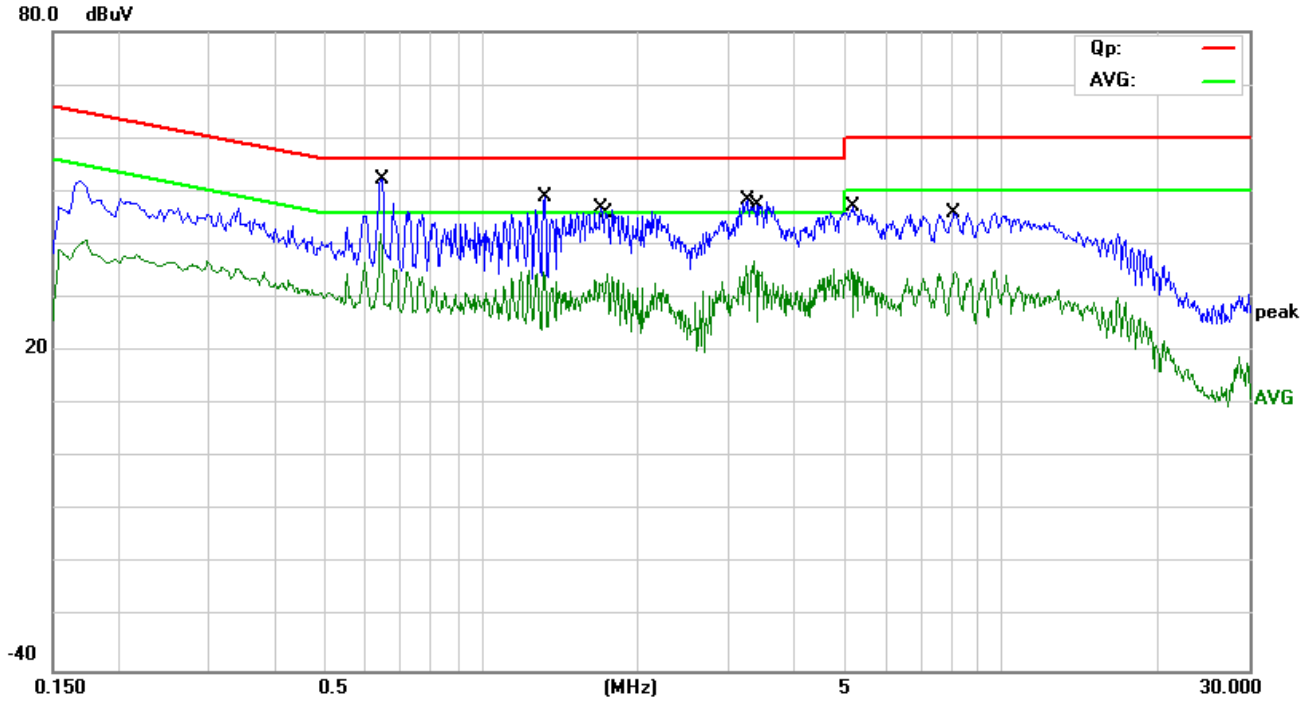
Power supply:	AC 120V/60Hz	Polarization	L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2280	27.53	9.60	37.13	52.52	-15.39	AVG	
2		0.2340	37.65	9.60	47.25	62.31	-15.06	QP	
3		0.6380	25.14	9.59	34.73	46.00	-11.27	AVG	
4	*	0.6420	39.59	9.59	49.18	56.00	-6.82	QP	
5		1.2580	22.52	9.60	32.12	46.00	-13.88	AVG	
6		1.3020	34.84	9.60	44.44	56.00	-11.56	QP	
7		3.2740	34.67	9.61	44.28	56.00	-11.72	QP	
8		3.2820	22.69	9.61	32.30	46.00	-13.70	AVG	
9		6.5540	20.92	9.65	30.57	50.00	-19.43	AVG	
10		6.8540	33.13	9.65	42.78	60.00	-17.22	QP	
11		10.2780	21.40	9.69	31.09	50.00	-18.91	AVG	
12		11.0340	32.66	9.69	42.35	60.00	-17.65	QP	

*:Maximum data x:Over limit !:over margin

Power supply:	AC 120V/60Hz	Polarization	N



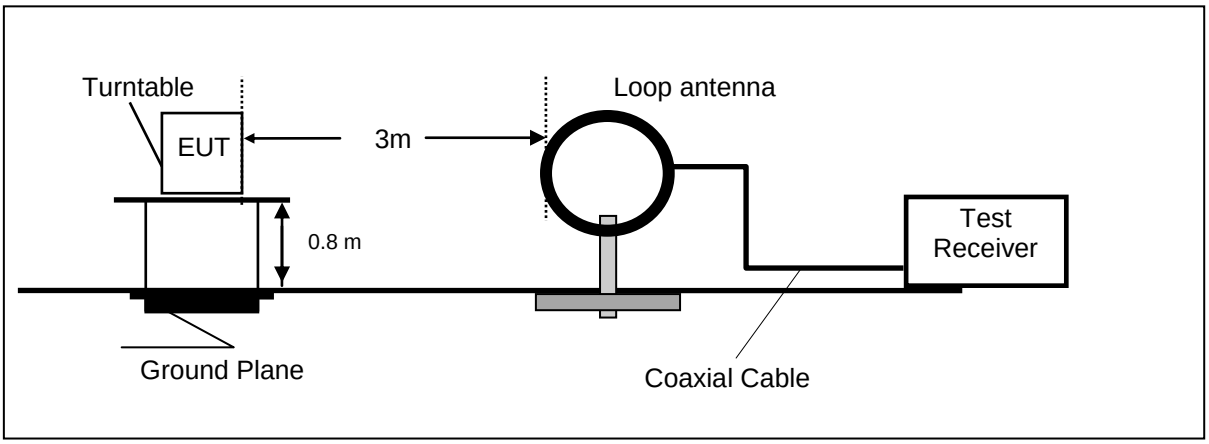
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.6420	32.45	9.59	42.04	46.00	-3.96	AVG	
2	*	0.6460	42.66	9.59	52.25	56.00	-3.75	QP	
3		1.3180	25.13	9.60	34.73	46.00	-11.27	AVG	
4		1.3300	39.23	9.60	48.83	56.00	-7.17	QP	
5		1.7020	37.37	9.60	46.97	56.00	-9.03	QP	
6		1.7460	24.81	9.60	34.41	46.00	-11.59	AVG	
7		3.2700	38.74	9.61	48.35	56.00	-7.65	QP	
8		3.3500	27.20	9.61	36.81	46.00	-9.19	AVG	
9		5.1420	25.85	9.63	35.48	50.00	-14.52	AVG	
10		5.2180	37.51	9.63	47.14	60.00	-12.86	QP	
11		8.1420	36.24	9.67	45.91	60.00	-14.09	QP	
12		8.1820	25.25	9.67	34.92	50.00	-15.08	AVG	

*:Maximum data x:Over limit !:over margin

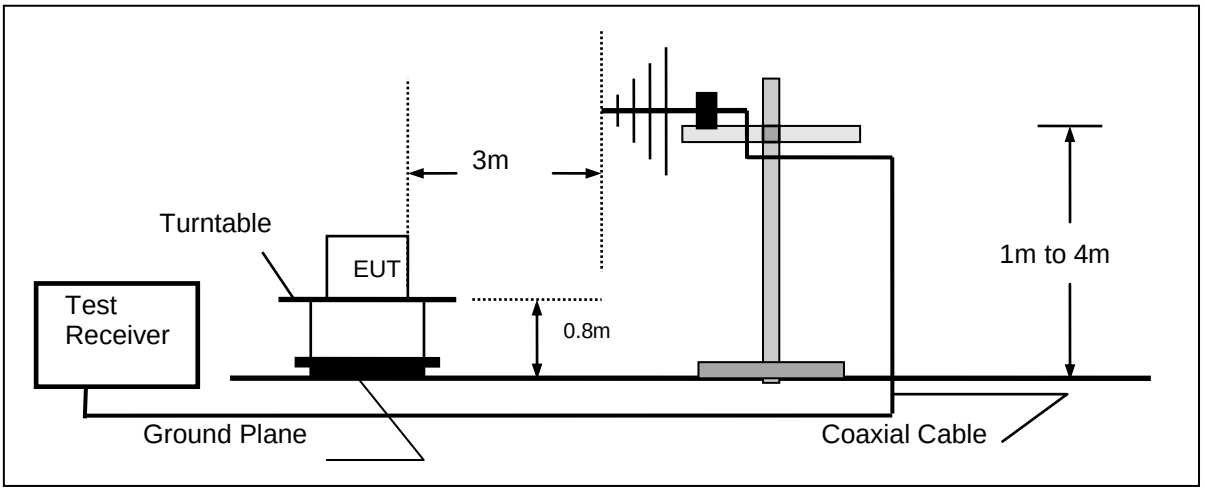
5.2. Radiated Emission

TEST CONFIGURATION

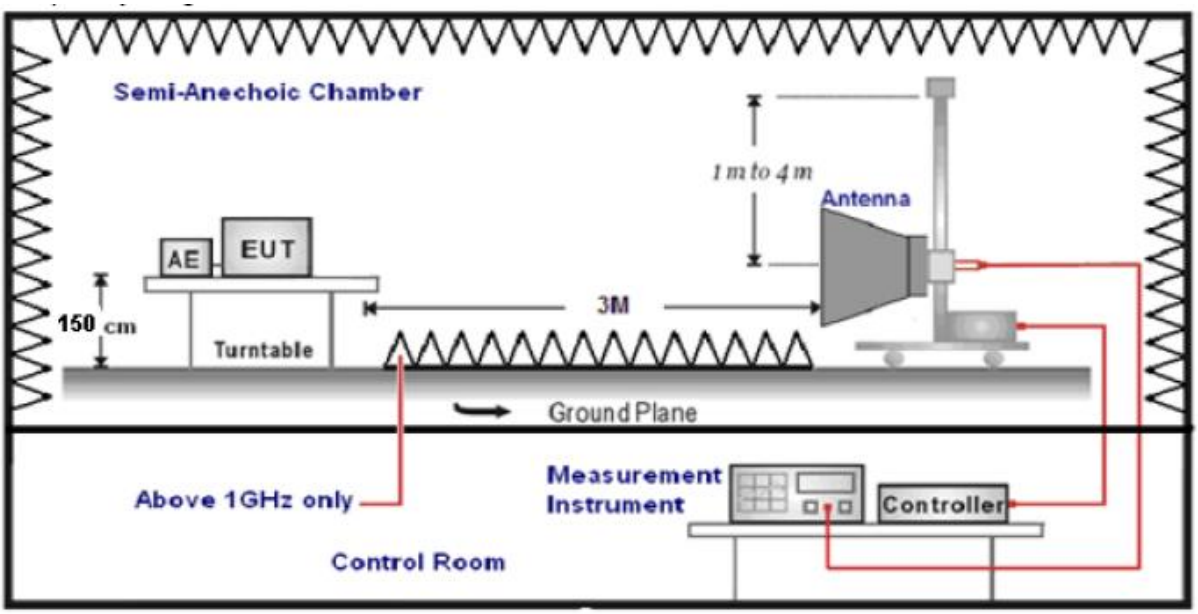
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence‑exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

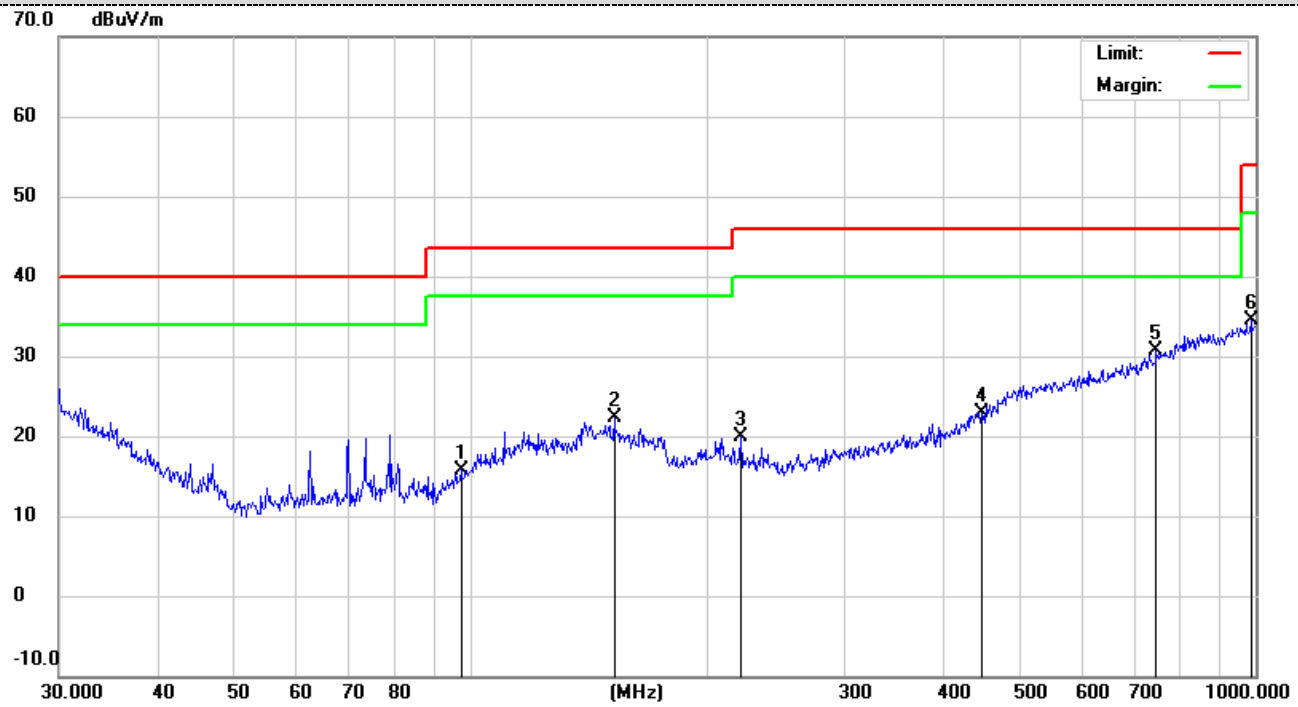
TEST RESULTS

Remark:

1. We measured Radiated Emission at GFSK mode from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
2. For below 1GHz testing recorded worst at GFSK DH5 middle channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

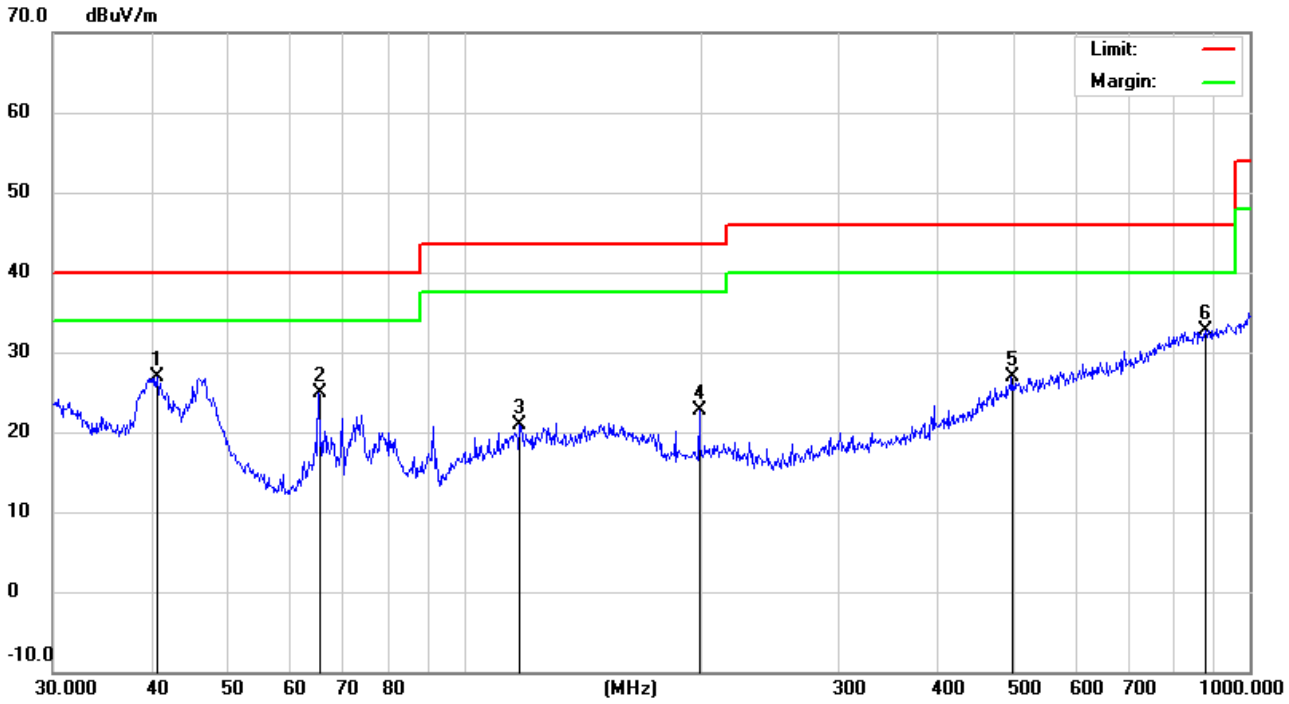
Horizontal



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		97.4560	3.14	12.66	15.80	43.50	-27.70	QP	200	46	
2		152.6641	4.77	17.59	22.36	43.50	-21.14	QP	200	115	
3		221.3921	5.38	14.60	19.98	46.00	-26.02	QP	200	148	
4		447.9822	2.94	19.94	22.88	46.00	-23.12	QP	200	151	
5	*	747.4825	4.24	26.43	30.67	46.00	-15.33	QP	200	168	
6		986.0717	4.55	29.86	34.41	54.00	-19.59	QP	200	88	

*:Maximum data x:Over limit !:over margin

Vertical



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	*	40.7016	13.64	13.34	26.98	40.00	-13.02	QP	100	224	
2		65.3432	16.02	8.97	24.99	40.00	-15.01	QP	100	58	
3		117.7725	5.26	15.55	20.81	43.50	-22.69	QP	100	154	
4		199.2855	7.48	15.18	22.66	43.50	-20.84	QP	100	78	
5		497.6765	4.27	22.58	26.85	46.00	-19.15	QP	100	168	
6		878.3214	3.98	28.76	32.74	46.00	-13.26	QP	100	265	

*:Maximum data x:Over limit !:over margin

For 1GHz to 25GHz

GFSK (above 1GHz)

Frequency(MHz):			**2402**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	55.64	PK	74	18.36	53.74	31.42	6.98	36.5	1.9
4804.00	46.45	AV	54	7.55	44.55	31.42	6.98	36.5	1.9
7206.00	51.26	PK	74	22.74	40.66	37.03	8.87	35.3	10.6
7206.00	42.7	AV	54	11.3	32.1	37.03	8.87	35.3	10.6

Frequency(MHz):			**2402**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	57.61	PK	74	16.39	55.71	31.42	6.98	36.5	1.9
4804.00	45.94	AV	54	8.06	44.04	31.42	6.98	36.5	1.9
7206.00	54.71	PK	74	19.29	44.11	37.03	8.87	35.3	10.6
7206.00	43.15	AV	54	10.85	32.55	37.03	8.87	35.3	10.6

Frequency(MHz):			**2440**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	52.52	PK	74	21.48	50.46	30.98	7.58	36.5	2.06
4880.00	42.19	AV	54	11.81	40.13	30.98	7.58	36.5	2.06
7320.00	52.56	PK	74	21.44	41.64	37.66	8.56	35.3	10.92
7320.00	41.32	AV	54	12.68	30.4	37.66	8.56	35.3	10.92

Frequency(MHz):			**2440**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	56.77	PK	74	17.23	54.71	30.98	7.58	36.5	2.06
4880.00	43.25	AV	54	10.75	41.19	30.98	7.58	36.5	2.06
7320.00	54.87	PK	74	19.13	43.95	37.66	8.56	35.3	10.92
7320.00	43.29	AV	54	10.71	32.37	37.66	8.56	35.3	10.92

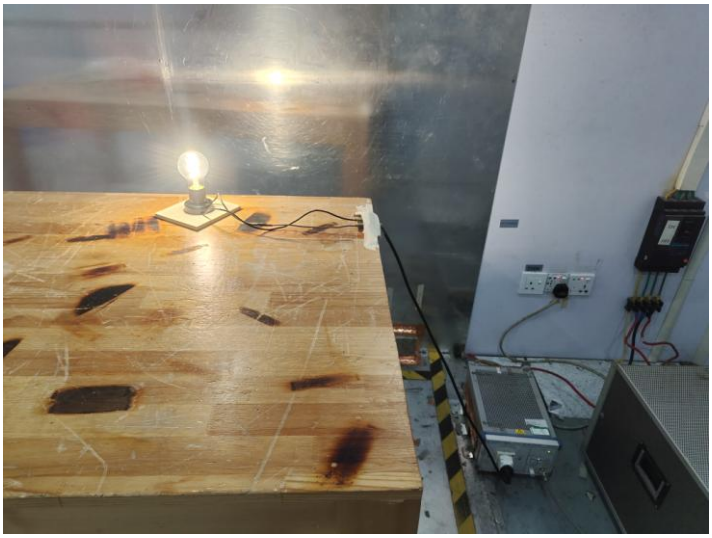
Frequency(MHz):			**2480**		**Polarity:**		**HORIZONTAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	58.51	PK	74	15.49	55.44	31.47	7.8	36.2	3.07
4960.00	47.4	AV	54	6.6	44.33	31.47	7.8	36.2	3.07
7440.00	55.56	PK	74	18.44	43.82	38.32	8.72	35.3	11.74
7440.00	43.08	PK	54	10.92	31.34	38.32	8.72	35.3	11.74

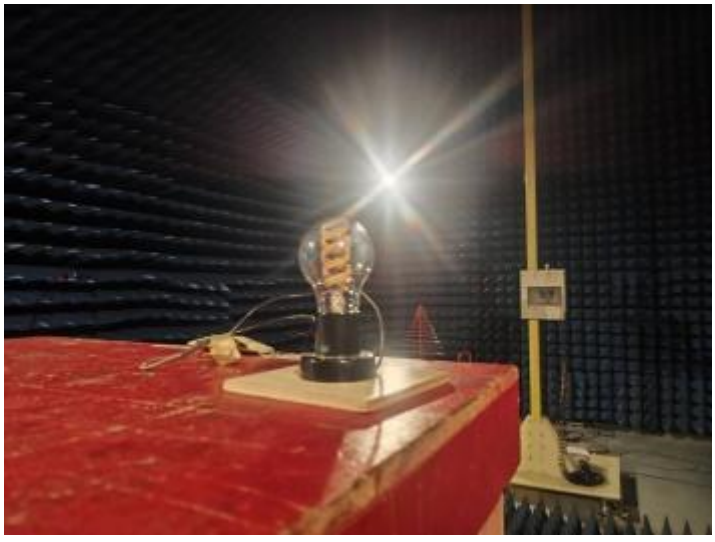
Frequency(MHz):			**2480**		**Polarity:**		**VERTICAL**		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	57.34	PK	74	16.66	54.27	31.47	7.8	36.2	3.07
4960.00	43.26	AV	54	10.74	40.19	31.47	7.8	36.2	3.07
7440.00	51.87	PK	74	22.13	40.13	38.32	8.72	35.3	11.74
7440.00	42.86	PK	54	11.14	31.12	38.32	8.72	35.3	11.74

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

5. Test Setup Photos of the EUT





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