



EMC TEST REPORT

Product Name: RGB LED Lighting Set

Model Name: GN7214H-24

Series Model: GN7214H-12, GN7214H-24A

FCC ID: 2AAHD-GN7214H

Issued For : Whalen LLC dba Whalen Furniture Manufacturing

1578 Air Wing Road San Diego, CA 92154

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT24G173EM01

Sample Received Date: July 24, 2024

Date of Test: July 24, 2024 ~ Aug. 08, 2024

Date of Issue: Aug. 08, 2024

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TEST REPORT CERTIFICATION

Applicant: Whalen LLC dba Whalen Furniture Manufacturing
Address: 1578 Air Wing Road San Diego, CA 92154
Manufacturer: Whalen LLC dba Whalen Furniture Manufacturing
Address: 1578 Air Wing Road San Diego, CA 92154
Product Name: RGB LED Lighting Set
Trademark: N/A
Model Name: GN7214H-24
Series Model: GN7214H-12, GN7214H-24A
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

Prepared by:

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Engineer

Approved by:

Vita Li

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Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Aug. 08, 2024	Initial Issue



1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	

Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.40
Radiated Emissions	1000 ~ 6000	5.10
Radiated Emissions	6000 ~ 18000	5.49
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. The measurement uncertainty is not included in the test result.		



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	RGB LED Lighting Set
Model Name:	GN7214H-24
Series Model:	GN7214H-12, GN7214H-24A
Model Difference:	All models are the same except the power supply and the length of the light bar. GN7214H-12 power supply is 12W, single light bar. GN7214H-24 power supply is 24W, three short light bars. GN7214H-24A power supply is 24W. two long light bars.
Maximum operating frequency:	> 108MHz
Rating:	AC 120V/60Hz
Test voltage:	AC 120V/60Hz
Hardware Version:	N/A
Software Version:	N/A
Connecting I/O Port(s):	Please refer to the Note 1.

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Working

Conducted Emission Test	
Final Test Mode	Description
Mode 1	Working

For Radiated Emission	
Final Test Mode	Description
Mode 1	Working

Note: For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.

2.3 DESCRIPTION OF THE SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	Rating	Remark
Adapter 1	X.L.Y ELECTRONICS LIMITED	W24-120200UW	Input: 100-240V AC, 50/60Hz, 0.6A MAX Output: 12V, 2.0A	For Model: GN7214H-24 GN7214H-24 A
Adapter 2	XING YUAN ELECTRONICS CO.,LTD	XY24SR-120200 VQ-UW	Input: 100-240V AC, 50/60Hz, 0.6A MAX Output: 12V, 2.0A	For Model: GN7214H-24 GN7214H-24 A
Adapter 3	Dong Guan Shi Jin Run Xu Electronic Factory	HX13-1201000- AU-00	Input: 100-240V AC, 50/60Hz, 0.5A MAX Output: 12V, 1.0A	For Model: GN7214H-12

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.4 MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				
Radiated Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Spectrum Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2025.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2024.03.09	2025.03.08
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
Margin Level = Measurement Value - Limit Value

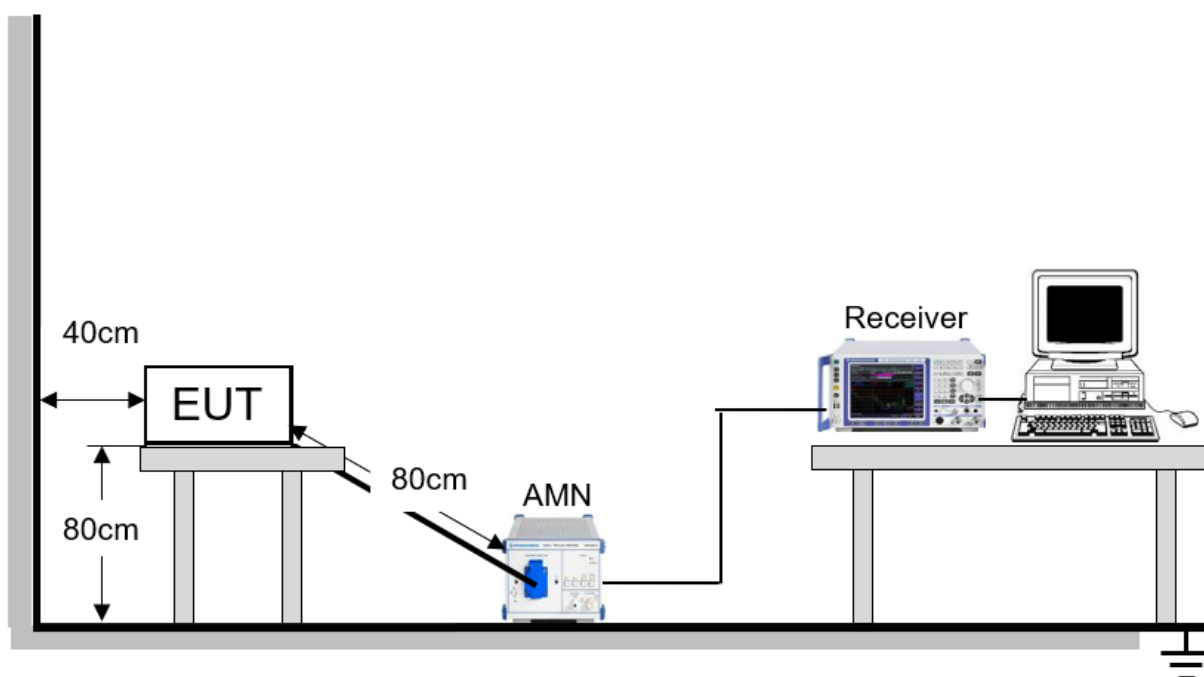
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

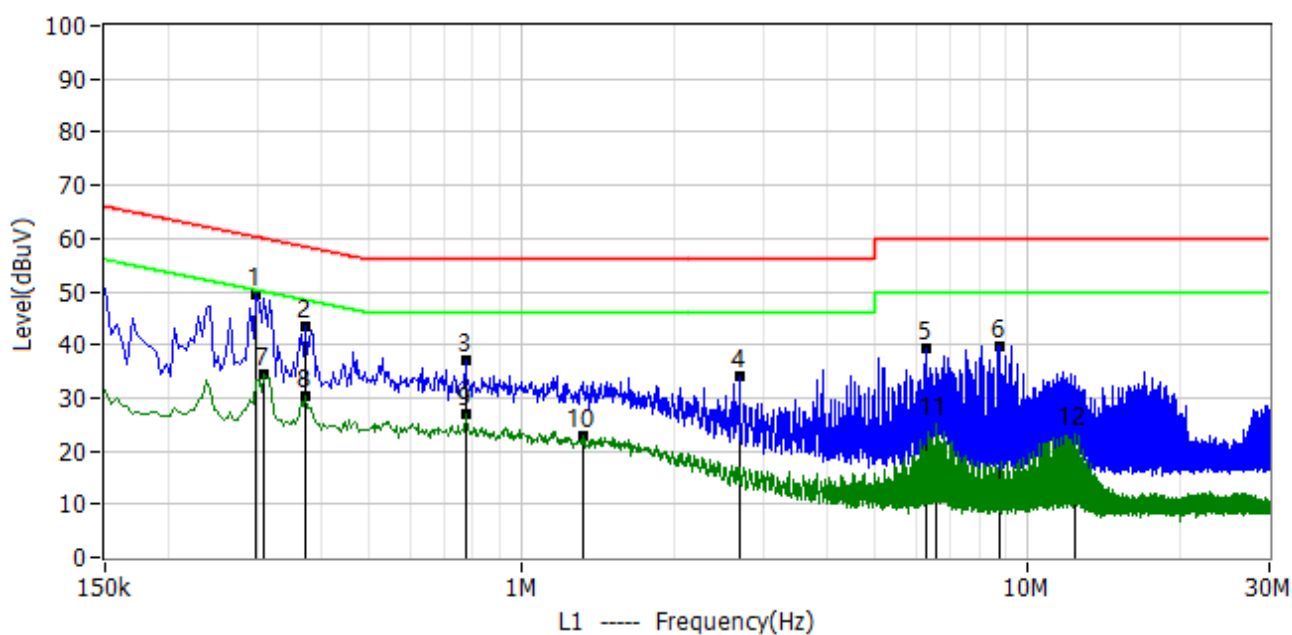
3.1.3 TEST SETUP





3.1.4 TEST RESULTS

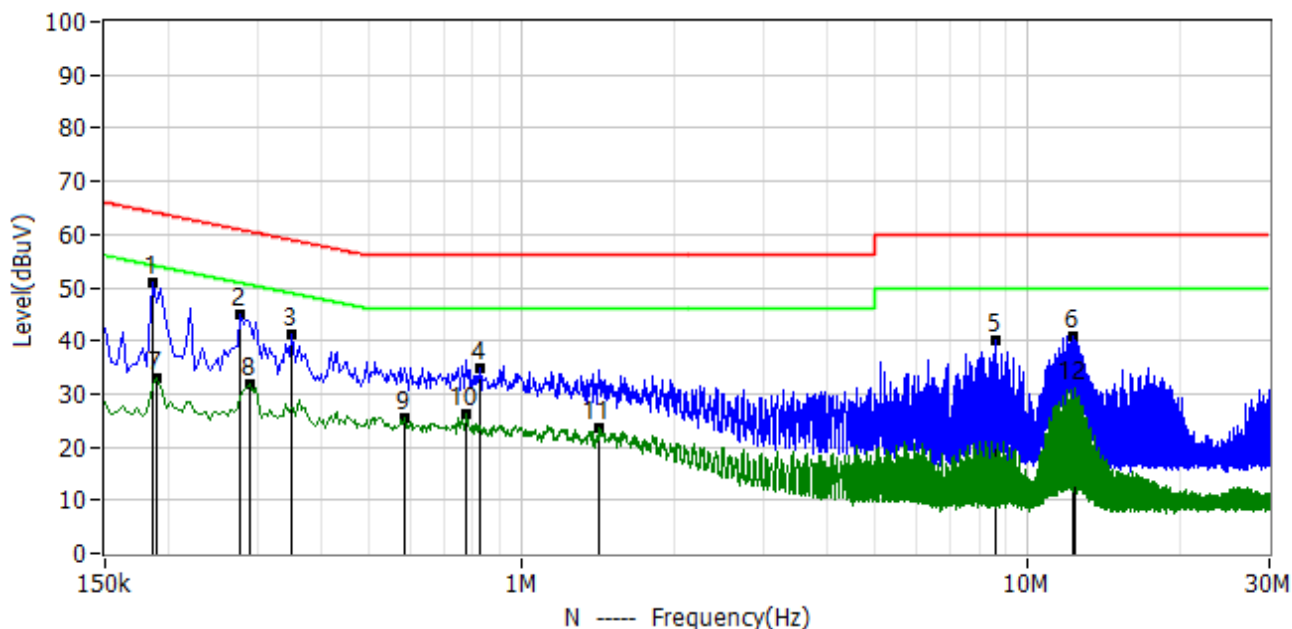
Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: °C
M/N: GN7214H-24	Humidity: %RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: W24-120200UW	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.298	38.81	10.58	49.39	60.30	-10.91	QP	L1
2*	0.374	33.05	10.57	43.62	58.41	-14.79	QP	L1
3*	0.774	26.55	10.60	37.15	56.00	-18.85	QP	L1
4*	2.694	22.83	11.13	33.96	56.00	-22.04	QP	L1
5*	6.306	28.16	11.02	39.18	60.00	-20.82	QP	L1
6*	8.830	28.61	11.01	39.62	60.00	-20.38	QP	L1
7*	0.310	23.76	10.58	34.34	49.97	-15.63	AV	L1
8*	0.374	19.58	10.57	30.15	48.41	-18.26	AV	L1
9*	0.774	16.29	10.60	26.89	46.00	-19.11	AV	L1
10*	1.318	12.08	10.79	22.87	46.00	-23.13	AV	L1
11*	6.590	14.07	11.01	25.08	50.00	-24.92	AV	L1
12*	12.362	11.99	11.19	23.18	50.00	-26.82	AV	L1



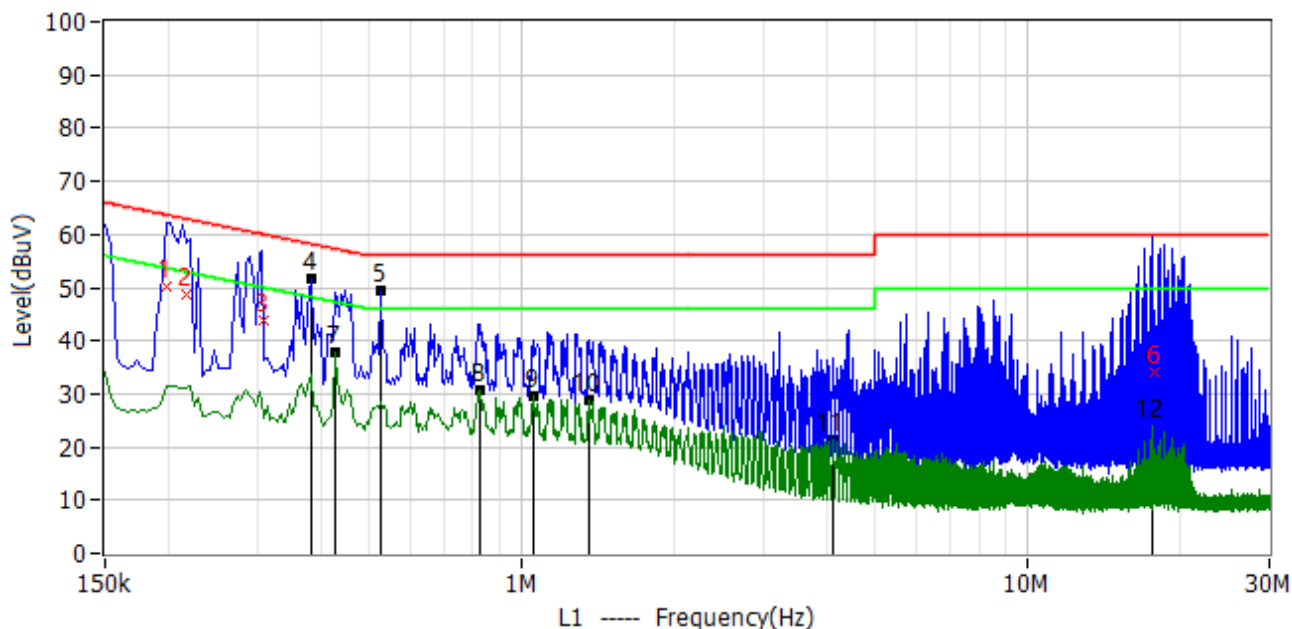
Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: °C
M/N: GN7214H-24	Humidity: %RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: W24-120200UW	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.186	40.52	10.56	51.08	64.21	-13.13	QP	N
2*	0.278	34.30	10.58	44.88	60.88	-16.00	QP	N
3*	0.350	30.77	10.59	41.36	58.96	-17.60	QP	N
4*	0.826	24.31	10.55	34.86	56.00	-21.14	QP	N
5*	8.658	29.21	10.90	40.11	60.00	-19.89	QP	N
6*	12.234	29.76	11.16	40.92	60.00	-19.08	QP	N
7*	0.190	22.24	10.56	32.80	54.04	-21.24	AV	N
8*	0.290	21.13	10.59	31.72	50.52	-18.80	AV	N
9*	0.586	14.83	10.55	25.38	46.00	-20.62	AV	N
10*	0.778	15.58	10.56	26.14	46.00	-19.86	AV	N
11*	1.422	13.02	10.63	23.65	46.00	-22.35	AV	N
12*	12.422	19.77	11.17	30.94	50.00	-19.06	AV	N



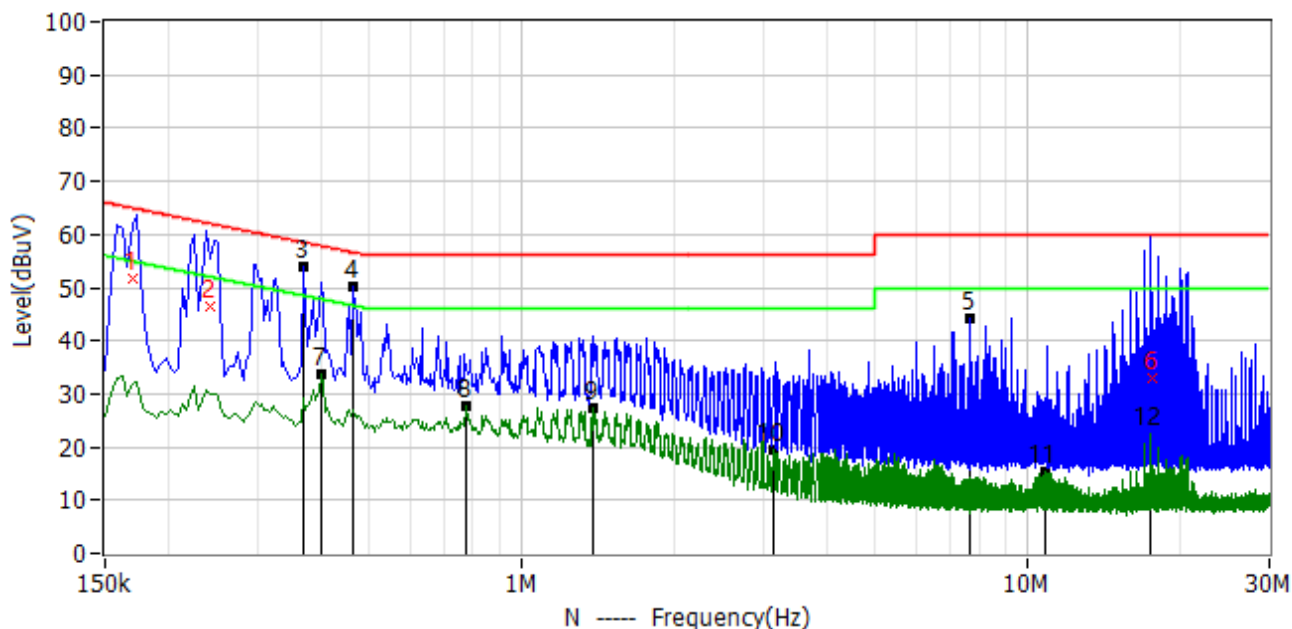
Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: °C
M/N: GN7214H-24	Humidity: %RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: XY24SR-120200VQ-UW	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1	0.198	39.63	10.60	50.23	63.69	-13.46	QP	L1
2	0.218	38.14	10.60	48.74	62.89	-14.15	QP	L1
3	0.310	33.04	10.60	43.64	59.97	-16.33	QP	L1
4*	0.382	41.12	10.57	51.69	58.24	-6.54	QP	L1
5*	0.526	38.97	10.57	49.54	56.00	-6.46	QP	L1
6	17.758	22.61	11.50	34.11	60.00	-25.89	QP	L1
7*	0.426	27.38	10.56	37.94	47.33	-9.39	AV	L1
8*	0.826	20.10	10.62	30.72	46.00	-15.28	AV	L1
9*	1.050	18.77	10.71	29.48	46.00	-16.52	AV	L1
10*	1.354	17.92	10.80	28.72	46.00	-17.28	AV	L1
11*	4.102	10.31	11.13	21.44	46.00	-24.56	AV	L1
12*	17.650	12.37	11.52	23.89	50.00	-26.11	AV	L1



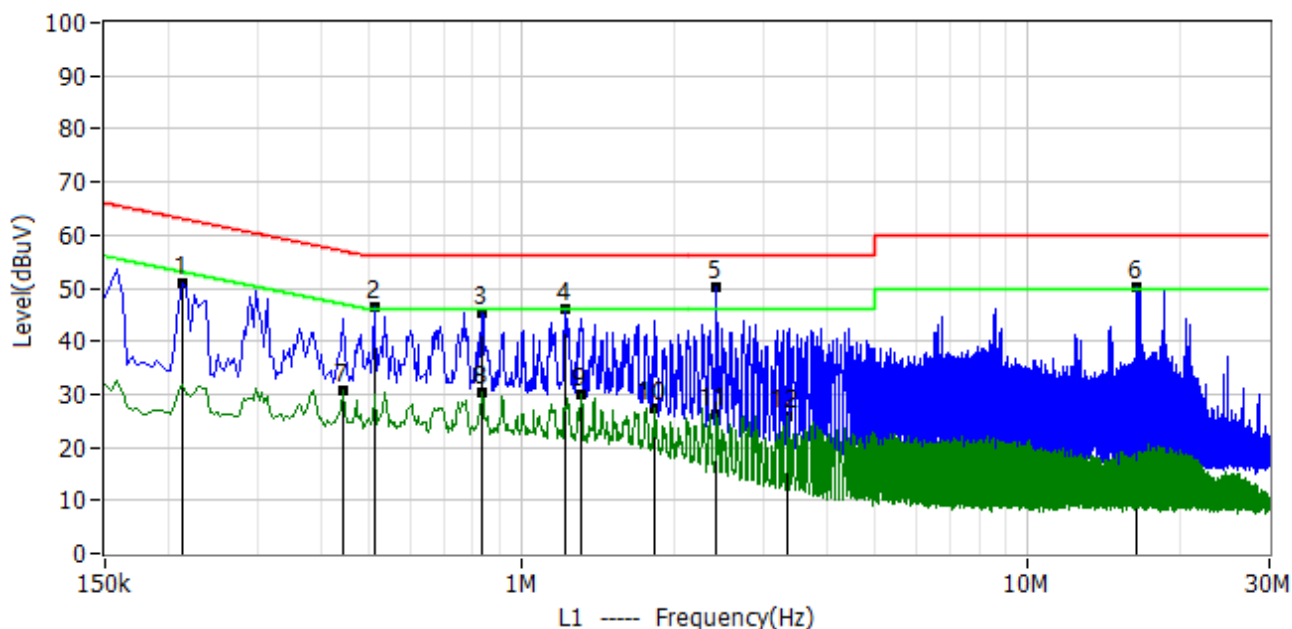
Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: °C
M/N: GN7214H-24	Humidity: %RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: XY24SR-120200VQ-UW	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1	0.170	41.17	10.60	51.77	64.96	-13.19	QP	N
2	0.242	36.00	10.60	46.60	62.03	-15.42	QP	N
3*	0.370	43.23	10.59	53.82	58.50	-4.68	QP	N
4*	0.462	39.50	10.56	50.06	56.66	-6.59	QP	N
5*	7.702	33.26	10.85	44.11	60.00	-15.89	QP	N
6	17.614	21.49	11.50	32.99	60.00	-27.01	QP	N
7*	0.402	23.06	10.59	33.65	47.81	-14.17	AV	N
8*	0.778	16.98	10.56	27.54	46.00	-18.46	AV	N
9*	1.378	16.72	10.62	27.34	46.00	-18.66	AV	N
10*	3.130	8.59	10.79	19.38	46.00	-26.62	AV	N
11*	10.822	4.13	11.05	15.18	50.00	-34.82	AV	N
12*	17.530	11.04	11.51	22.55	50.00	-27.45	AV	N



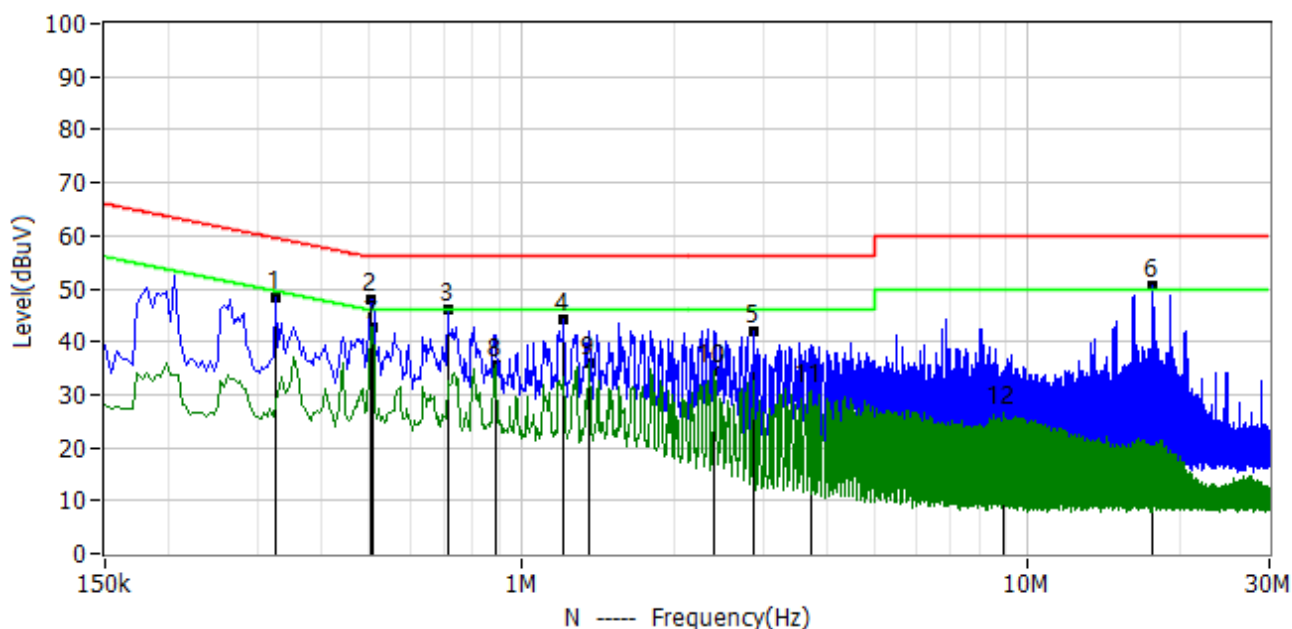
Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 26.2°C
M/N: GN7214H-12	Humidity: 57%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: HX13-1201200-AU-001	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.214	40.47	10.62	51.09	63.05	-11.96	QP	L1
2*	0.510	35.98	10.57	46.55	56.00	-9.45	QP	L1
3*	0.830	34.78	10.62	45.40	56.00	-10.60	QP	L1
4*	1.222	35.32	10.76	46.08	56.00	-9.92	QP	L1
5*	2.414	39.18	11.07	50.25	56.00	-5.75	QP	L1
6*	16.378	38.59	11.46	50.05	60.00	-9.95	QP	L1
7*	0.442	20.01	10.57	30.58	47.02	-16.45	AV	L1
8*	0.834	19.70	10.62	30.32	46.00	-15.68	AV	L1
9*	1.314	19.05	10.78	29.83	46.00	-16.17	AV	L1
10*	1.826	16.49	10.94	27.43	46.00	-18.57	AV	L1
11*	2.426	15.27	11.08	26.35	46.00	-19.65	AV	L1
12*	3.346	14.63	11.17	25.80	46.00	-20.20	AV	L1



Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 26.2°C
M/N: GN7214H-12	Humidity: 57%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-29
Test Mode: Working	
Note: HX13-1201200-AU-001	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.326	37.67	10.59	48.26	59.55	-11.29	QP	N
2*	0.502	37.39	10.54	47.93	56.00	-8.07	QP	N
3*	0.714	35.67	10.56	46.23	56.00	-9.77	QP	N
4*	1.206	33.74	10.59	44.33	56.00	-11.67	QP	N
5*	2.882	30.99	10.78	41.77	56.00	-14.23	QP	N
6*	17.662	38.89	11.51	50.40	60.00	-9.60	QP	N
7*	0.506	32.15	10.54	42.69	46.00	-3.31	AV	N
8*	0.886	25.03	10.55	35.58	46.00	-10.42	AV	N
9*	1.358	25.40	10.62	36.02	46.00	-9.98	AV	N
10*	2.398	23.73	10.77	34.50	46.00	-11.50	AV	N
11*	3.714	19.92	10.80	30.72	46.00	-15.28	AV	N
12*	8.990	15.52	10.92	26.44	50.00	-23.56	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),
Margin Level = Measurement Value - Limit Value.

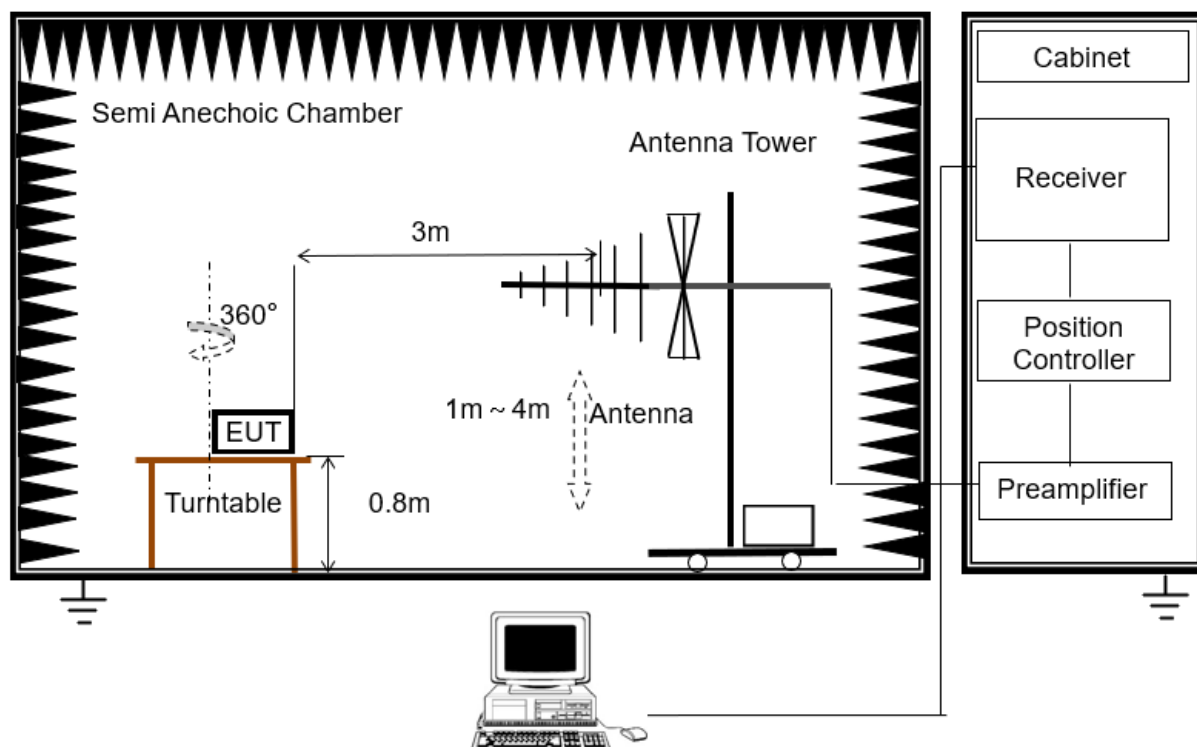
3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

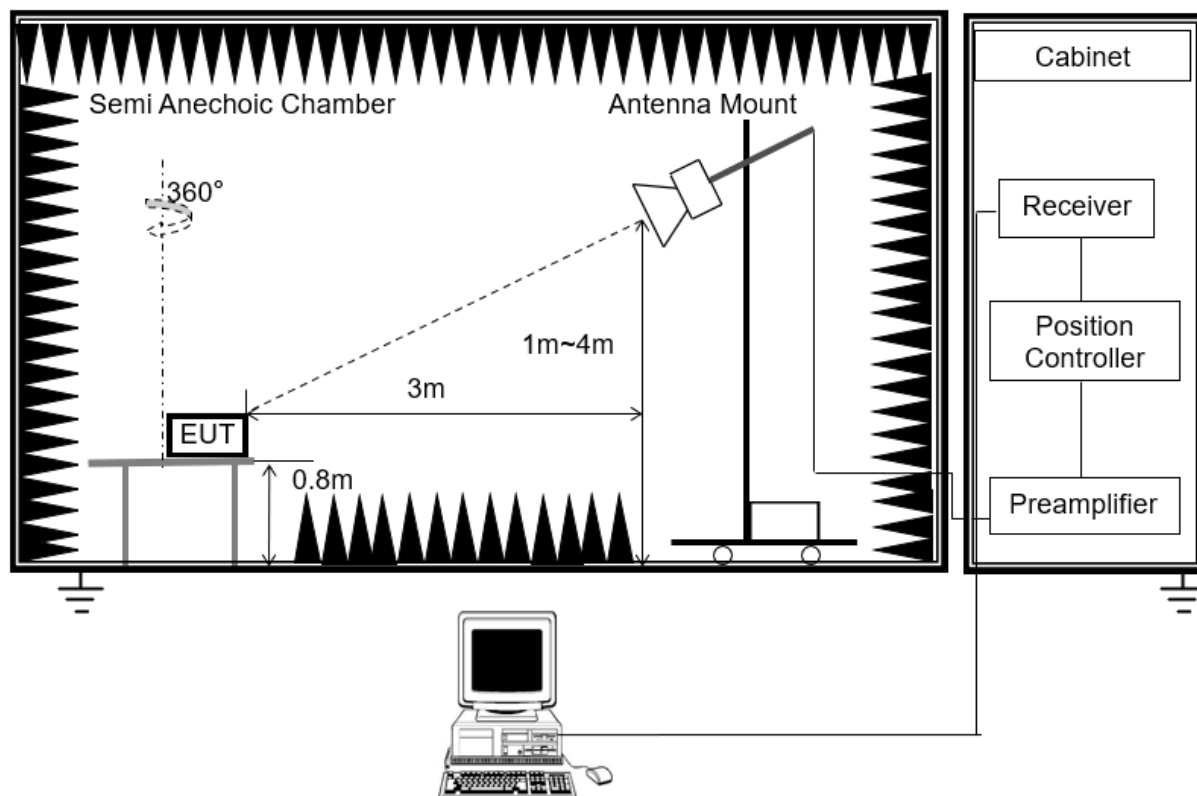
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



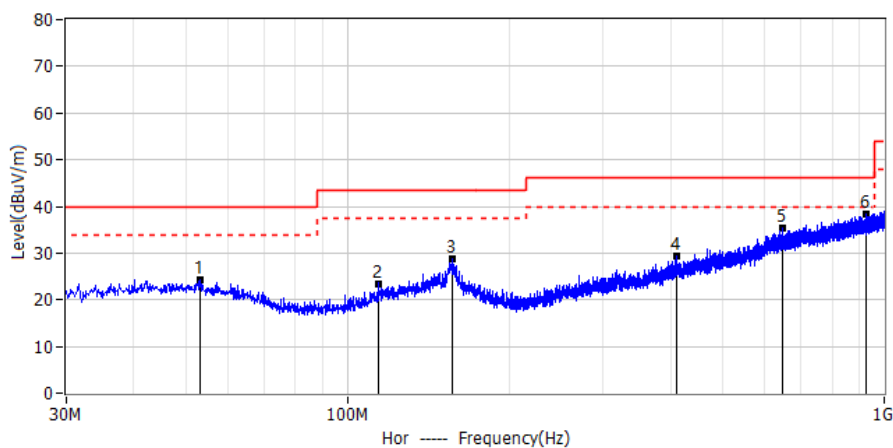
For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration



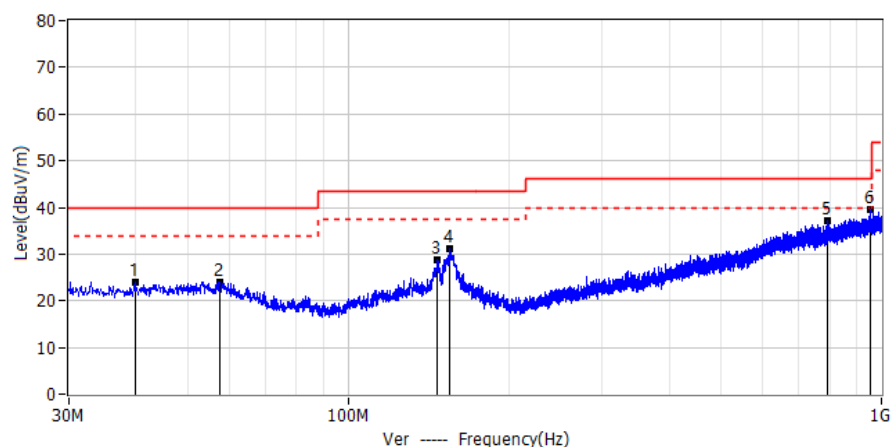
3.2.4 TEST RESULTS

Below 1 GHz

Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 25.6°C
M/N: GN7214H-24	Humidity: 42%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note: W24-120200UW	



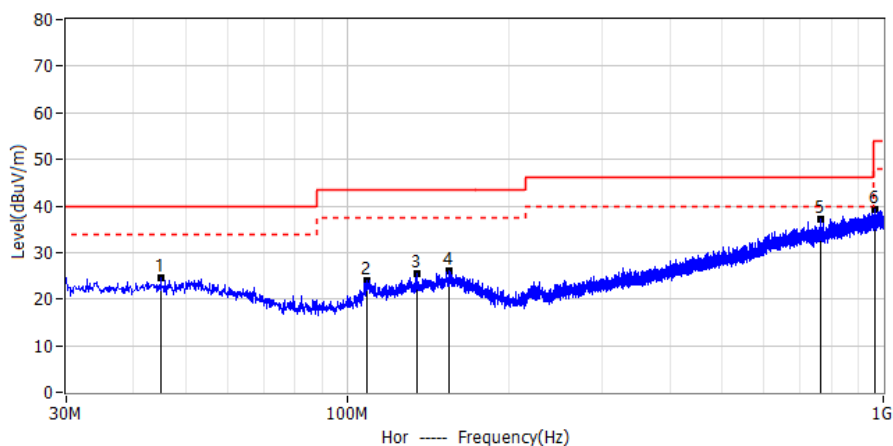
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	53.280	3.67	20.57	24.24	40.00	-15.76	QP	Hor
2*	114.390	4.65	18.87	23.52	43.50	-19.98	QP	Hor
3*	156.706	6.80	21.86	28.66	43.50	-14.84	QP	Hor
4*	409.876	4.26	24.96	29.22	46.00	-16.78	QP	Hor
5*	646.799	5.53	29.70	35.23	46.00	-10.77	QP	Hor
6*	923.976	5.32	33.06	38.38	46.00	-7.62	QP	Hor



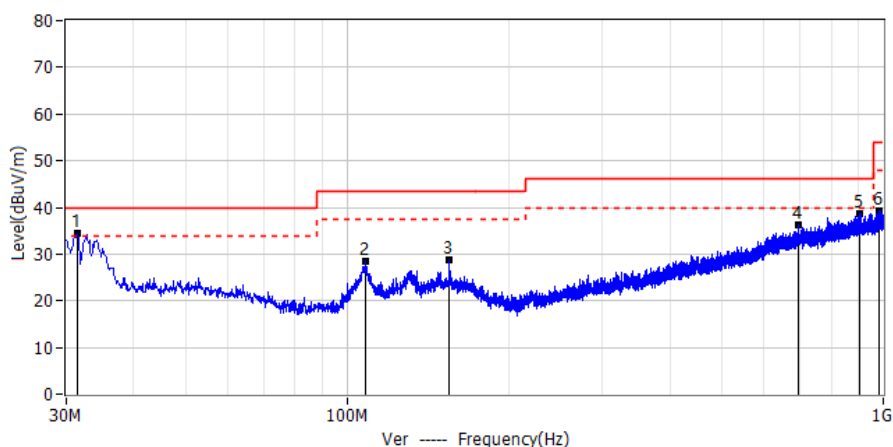
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.943	4.12	19.97	24.09	40.00	-15.91	QP	Ver
2*	57.645	4.15	19.76	23.91	40.00	-16.09	QP	Ver
3*	146.764	7.26	21.54	28.80	43.50	-14.70	QP	Ver
4*	155.373	9.73	21.47	31.20	43.50	-12.30	QP	Ver
5*	793.754	5.41	31.74	37.15	46.00	-8.85	QP	Ver
6*	951.500	5.82	33.72	39.54	46.00	-6.46	QP	Ver



Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 25.6°C
M/N: GN7214H-24	Humidity: 42%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note: XY24SR-120200VQ-UW	



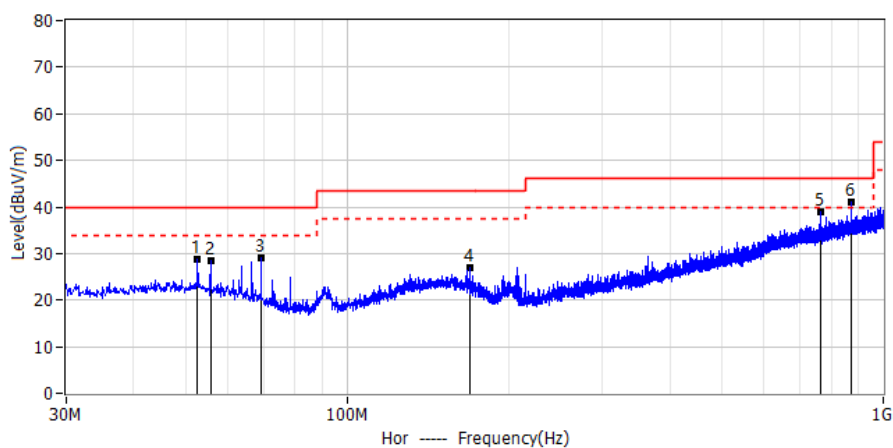
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	45.035	4.09	20.42	24.51	40.00	-15.49	QP	Hor
2*	108.934	6.33	17.67	24.00	43.50	-19.50	QP	Hor
3*	134.881	4.79	20.71	25.50	43.50	-18.00	QP	Hor
4*	155.130	4.71	21.37	26.08	43.50	-17.42	QP	Hor
5*	762.350	6.02	31.23	37.25	46.00	-8.75	QP	Hor
6*	964.353	5.56	33.58	39.14	54.00	-14.86	QP	Hor



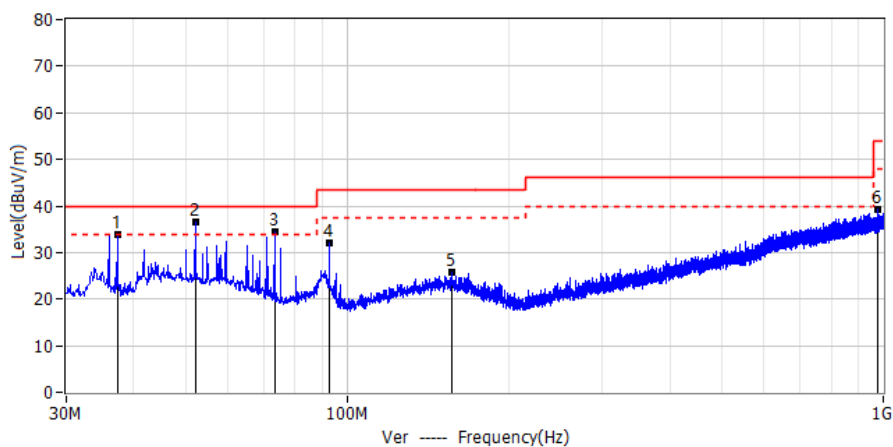
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	31.455	15.20	19.38	34.58	40.00	-5.42	QP	Ver
2*	108.449	10.77	17.67	28.44	43.50	-15.06	QP	Ver
3*	155.130	7.49	21.37	28.86	43.50	-14.64	QP	Ver
4*	694.086	6.11	30.24	36.35	46.00	-9.65	QP	Ver
5*	900.818	5.55	33.14	38.69	46.00	-7.31	QP	Ver
6*	984.723	5.01	34.24	39.25	54.00	-14.75	QP	Ver



Project: LGT24G173	Test Engineer: Xiangdong Ma
EUT: RGB LED Lighting Set	Temperature: 25.5°C
M/N: GN7214H-12	Humidity: 52%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note: HX13-1201000-AU-001	



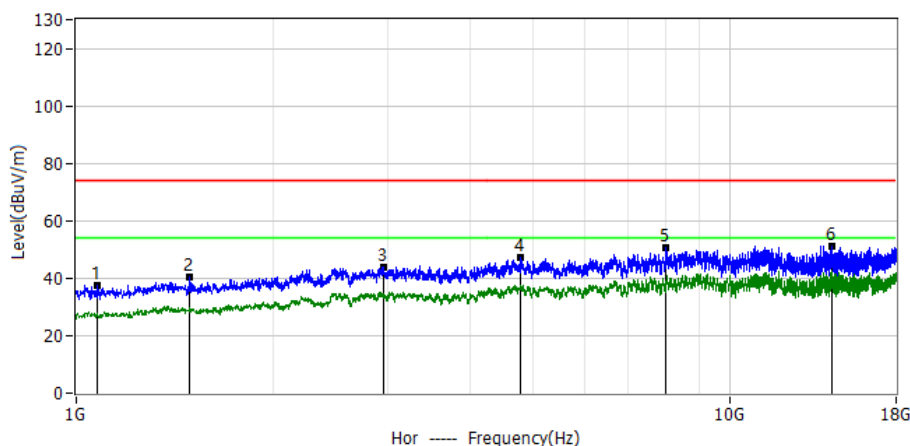
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	52.674	8.14	20.58	28.72	40.00	-11.28	QP	Hor
2*	55.705	8.80	19.75	28.55	40.00	-11.45	QP	Hor
3*	69.285	11.23	17.90	29.13	40.00	-10.87	QP	Hor
4*	169.801	6.18	20.80	26.98	43.50	-16.52	QP	Hor
5*	765.381	7.98	31.12	39.10	46.00	-6.90	QP	Hor
6*	869.414	8.08	32.95	41.03	46.00	-4.97	QP	Hor



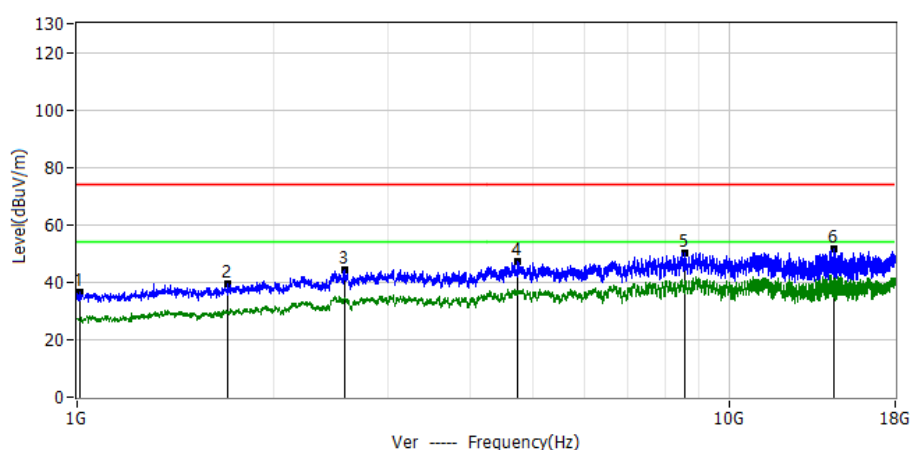
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.396	13.92	19.82	33.74	40.00	-6.26	QP	Ver
2*	52.189	16.18	20.43	36.61	40.00	-3.39	QP	Ver
3*	73.286	17.62	16.97	34.59	40.00	-5.41	QP	Ver
4*	92.686	15.72	16.41	32.13	43.50	-11.37	QP	Ver
5*	157.191	3.97	21.87	25.84	43.50	-17.66	QP	Ver
6*	977.569	5.41	33.80	39.21	54.00	-14.79	QP	Ver



Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 25.6°C
M/N: GN7214H-24	Humidity: 42%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note:	



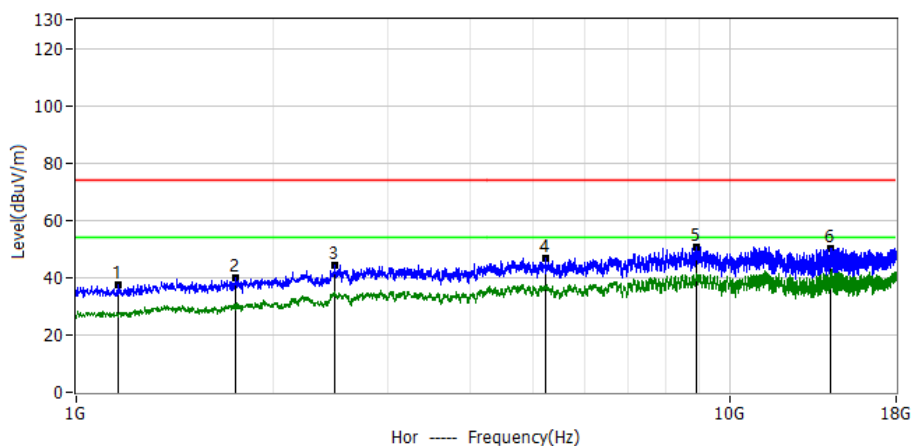
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1074.4000	61.82	-24.10	37.72	74.00	-36.28	PK	Hor
2*	1488.7000	61.53	-21.01	40.52	74.00	-33.48	PK	Hor
3*	2948.6000	52.95	-9.03	43.92	74.00	-30.08	PK	Hor
4*	4795.2000	54.21	-6.80	47.41	74.00	-26.59	PK	Hor
5*	8001.9000	55.96	-5.50	50.46	74.00	-23.54	PK	Hor
6*	14379.0000	50.34	0.71	51.05	74.00	-22.95	PK	Hor



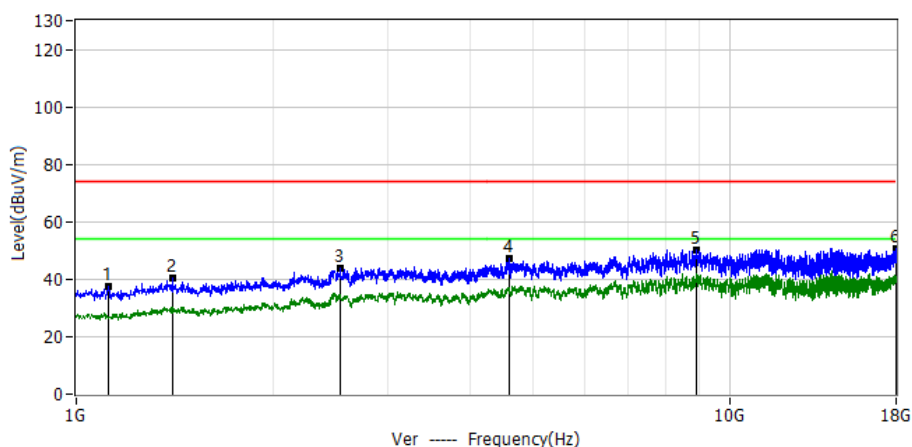
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1010.6000	61.39	-24.66	36.73	74.00	-37.27	PK	Ver
2*	1701.2000	58.80	-19.35	39.45	74.00	-34.55	PK	Ver
3*	2568.2000	55.11	-10.96	44.15	74.00	-29.85	PK	Ver
4*	4735.7000	53.86	-6.74	47.12	74.00	-26.88	PK	Ver
5*	8571.4000	54.60	-4.45	50.15	74.00	-23.85	PK	Ver
6*	14487.4000	50.88	0.67	51.55	74.00	-22.45	PK	Ver



Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 25.6°C
M/N: GN7214H-24	Humidity: 42%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note:	



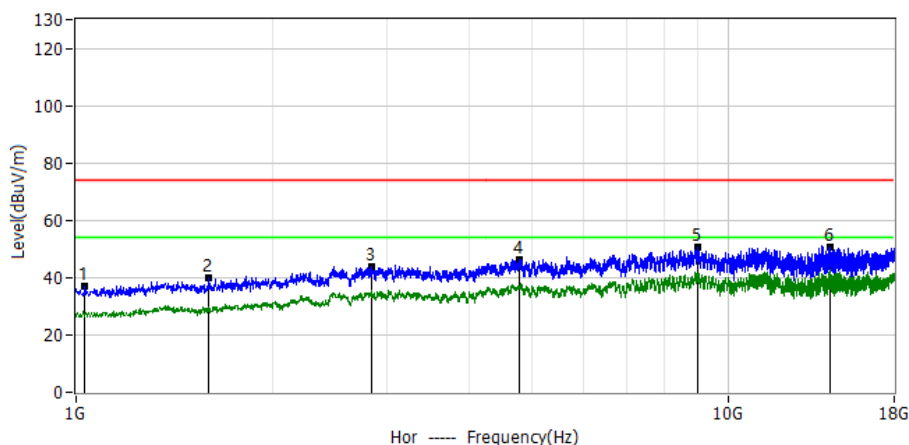
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1161.5000	60.65	-23.34	37.31	74.00	-36.69	PK	Hor
2*	1756.5000	58.65	-18.83	39.82	74.00	-34.18	PK	Hor
3*	2489.6000	55.67	-11.41	44.26	74.00	-29.74	PK	Hor
4*	5228.7000	54.56	-7.78	46.78	74.00	-27.22	PK	Hor
5*	8915.6000	54.48	-3.82	50.66	74.00	-23.34	PK	Hor
6*	14257.9000	49.62	0.76	50.38	74.00	-23.62	PK	Hor



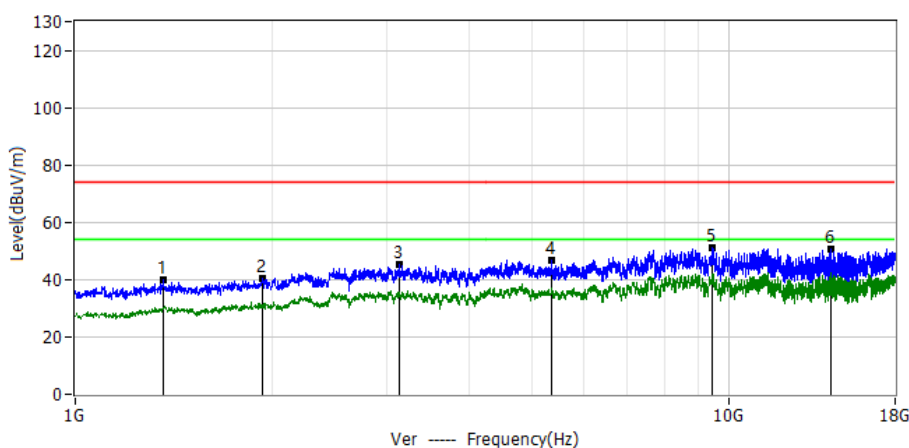
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1121.1000	61.25	-23.70	37.55	74.00	-36.45	PK	Ver
2*	1401.6000	61.74	-21.46	40.28	74.00	-33.72	PK	Ver
3*	2532.1000	55.14	-11.14	44.00	74.00	-30.00	PK	Ver
4*	4591.2000	53.66	-6.59	47.07	74.00	-26.93	PK	Ver
5*	8907.1000	53.85	-3.84	50.01	74.00	-23.99	PK	Ver
6*	17972.4000	48.58	2.01	50.59	74.00	-23.41	PK	Ver



Project: LGT24G173	Test Engineer: LiuH
EUT: RGB LED Lighting Set	Temperature: 25.6°C
M/N: GN7214H-12	Humidity: 42%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-07-30
Test Mode: Working	
Note: HX13-1201000-AU-001	



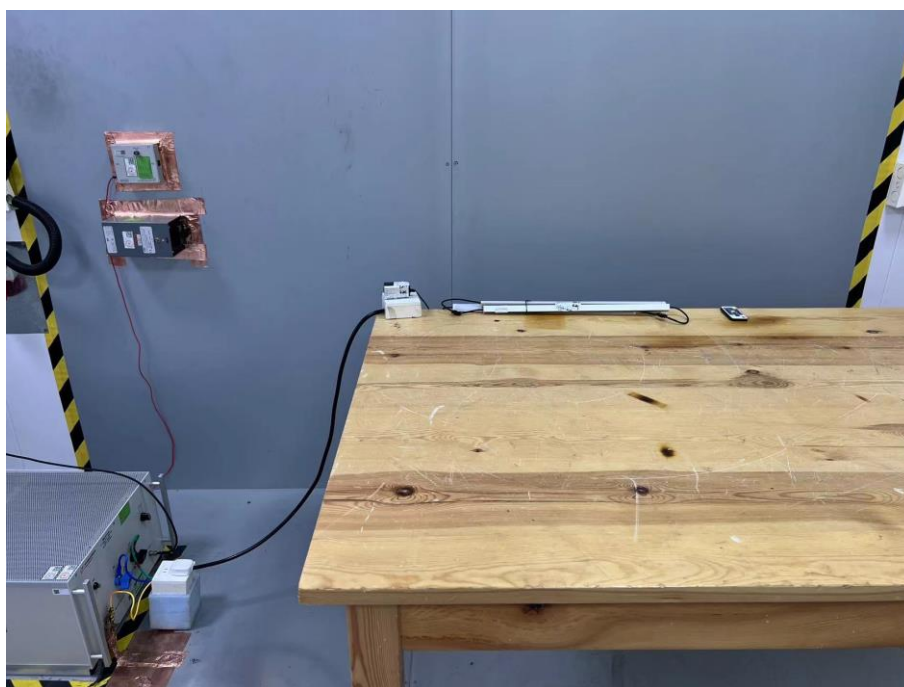
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1031.9000	61.68	-24.47	37.21	74.00	-36.79	PK	Hor
2*	1599.2000	60.06	-20.31	39.75	74.00	-34.25	PK	Hor
3*	2833.9000	53.41	-9.61	43.80	74.00	-30.20	PK	Hor
4*	4797.4000	53.00	-6.80	46.20	74.00	-27.80	PK	Hor
5*	8983.6000	54.10	-3.70	50.40	74.00	-23.60	PK	Hor
6*	14368.4000	49.85	0.72	50.57	74.00	-23.43	PK	Hor



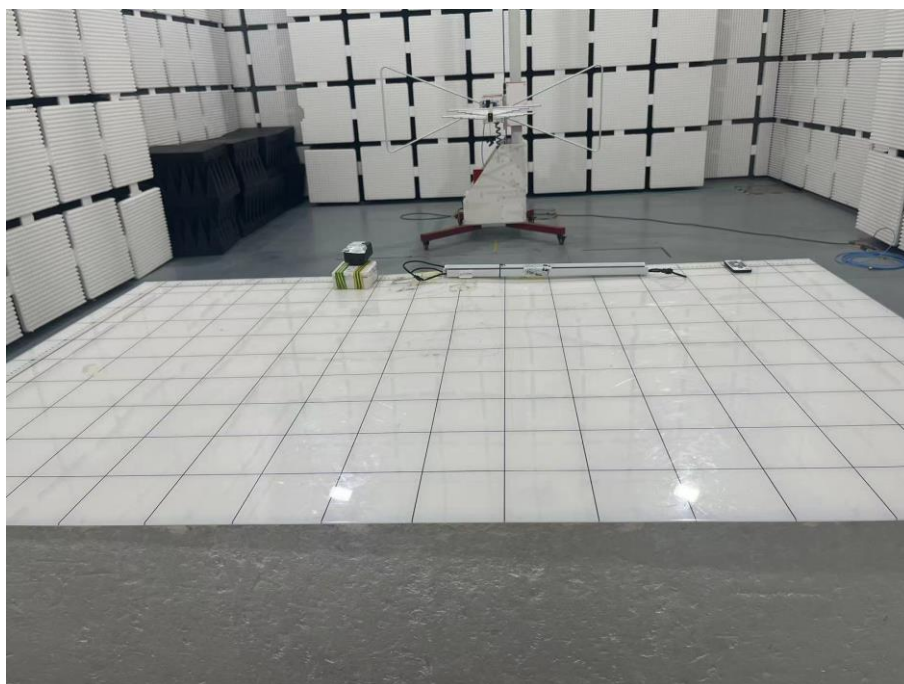
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1363.4000	61.89	-21.75	40.14	74.00	-33.86	PK	Ver
2*	1937.1000	57.48	-17.07	40.41	74.00	-33.59	PK	Ver
3*	3131.4000	53.90	-8.84	45.06	74.00	-28.94	PK	Ver
4*	5358.4000	54.85	-8.22	46.63	74.00	-27.37	PK	Ver
5*	9457.5000	55.01	-3.90	51.11	74.00	-22.89	PK	Ver
6*	14368.4000	49.92	0.72	50.64	74.00	-23.36	PK	Ver

APPENDIX I - TEST SETUP

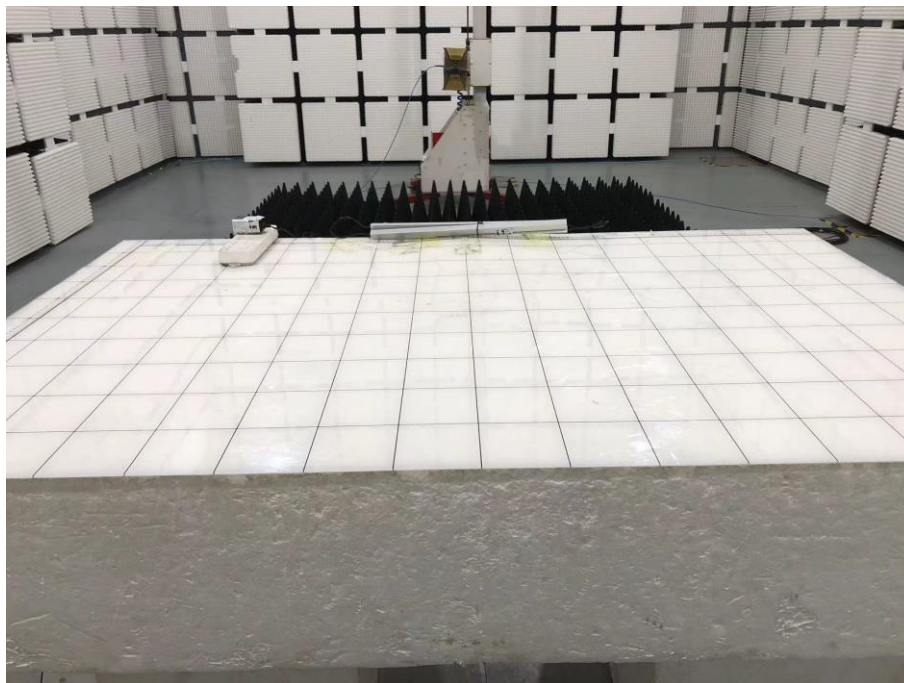
Set-up for Conducted Emission on AC Mains (CE)



Set-up for Radiated Emission (RE), Below 1GHz



Set-up for Radiated Emission (RE), Above 1GHz





APPENDIX II - External Photographs of EUT Constructional Details

Note: Please see the attached GN7214H-24 External Photos and GN7214H-24 Internal Photos..

※※※※※END OF THE REPORT※※※※※