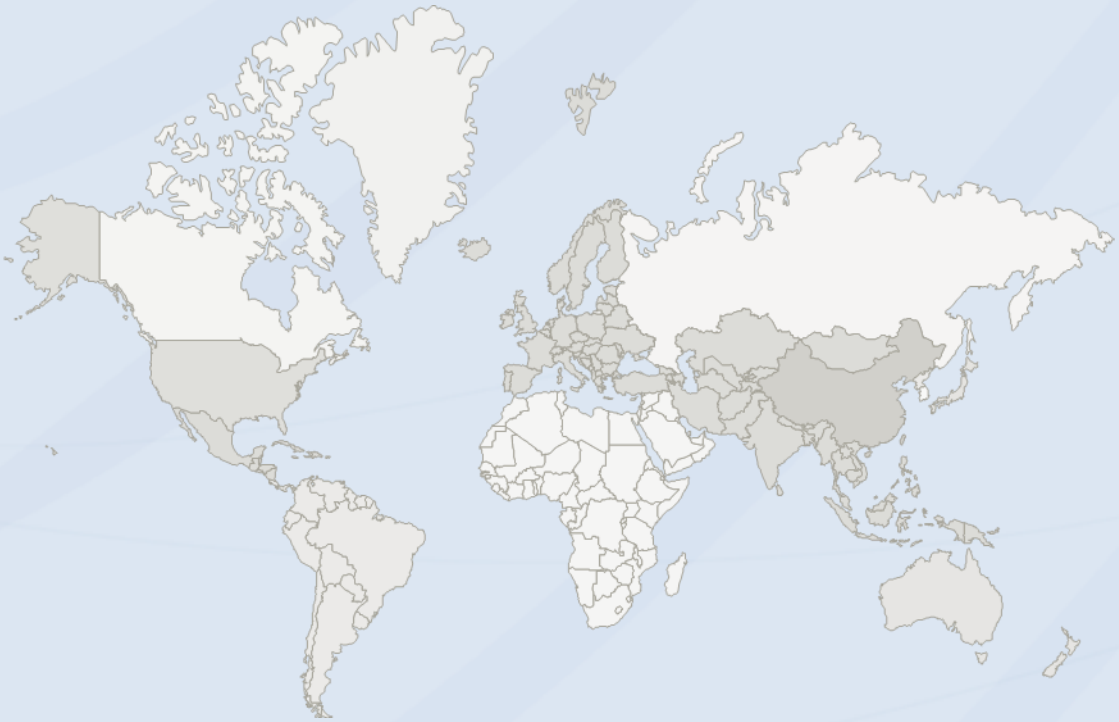
FCC TEST REPORT

Report No. .....:	NTC-ER2604030
Applicant's name.....:	HLI Solutions, Inc.
Addre ss.....:	701 Millennium Boulevard Greenville South Carolina 29607 United States



DONGGUAN NEW TESTING CENTRE CO., LTD

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TEST REPORT DECLARE

FCC ID	:	YH9LSCS
Applicant	:	HLI Solutions, Inc.
Address	:	701 Millennium Boulevard Greenville South Carolina 29607 United States
Equipment under Test	:	LED GARAEG CANOPY
Model No	:	SGC-F-70-LSCS-UNVC,ECP270WLSCS The detail refers to the section 2.2 of this report
Trade Mark	:	Current
Manufacturer	:	HLI Solutions, Inc.
Address	:	701 Millennium Boulevard Greenville South Carolina 29607 United States
Test Laboratory	:	Dongguan New Testing Centre Co., Ltd.
CAB identifier	:	CN1264
Address	:	1F & 3F, No. 1 the 1st North Industry Road Songshan Lake Science & Technology Park Dongguan, People's Republic of China 523808

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C: 2024 15.249, ANSI C63.10:2020.

We Declare:

The equipment described above is tested by Dongguan New Testing Centre 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 Dongguan New Testing Centre 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.:	NTC-ER2604030		
Date of Test:	Apr.01, 2026 to Apr.27, 2026	**Date of Report**:	May.13, 2026

Prepared By: ***Approved By:***

Taylor chen

Taylor Chen /Engineer ***Dave Gou/LAB Manager***

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

1. Summary of test results

Applied Standard: FCC Part 15 Subpart C §15.249		
FCC Rules	**Description Of Test**	**Result**
§15.203	Antenna Requirement	Compliant
§15.207(a)	Power Line Conducted Emissions	Compliant
§15.205(a), §15.209(a), §15.249(a), §15.249(c)	Radiated Emissions Measurement	Compliant
§15.249 (d)	Band Edges Measurement	Compliant
§15.215(c)	20 dB Bandwidth	Compliant

Remark: N/A* - Not Applicable for this device!

2. General test information

2.1. Description of EUT

EUT* Name	:	LED GARAEG CANOPY
Test model	:	SGC-F-70-LSCS-UNVC,ECP270WLSCS
EUT function description	:	Please reference user manual of this device
Power supply	:	AC120-347V
Trade mark	:	Current
Frequency Range	:	5800±75MHz
Channel Number		1 channel(5825MHz)
Modulation	:	CW
Antenna Type	:	Microstrip antenna
Antenna Gain	:	0dBi

Note: EUT is the ab. of equipment under test.

2.2. Detail models

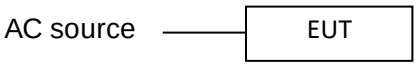
Model	Rating	Note
SGC-F-70-LSCS-UNVC	AC120-347V	The same product with different model names.
ECP270WLSCS		

2.3. Support Equipment

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
-	-	-	-	--	--

2.4. Block diagram EUT configuration for test

For EUT Tx mode:



2.5. Test environment conditions

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

Temperature range:	-30-60℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.6. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.44dB
Uncertainty for Radiation Emission test (30MHz – 1GHz)	3.14 dB (Polarize: V)
	3.16 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz – 26GHz)	4.27 dB (Polarize: V)
	4.51 dB (Polarize: H)
Uncertainty for Radiation Emission test (26GHz – 40GHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Bandwidth	±1.2%

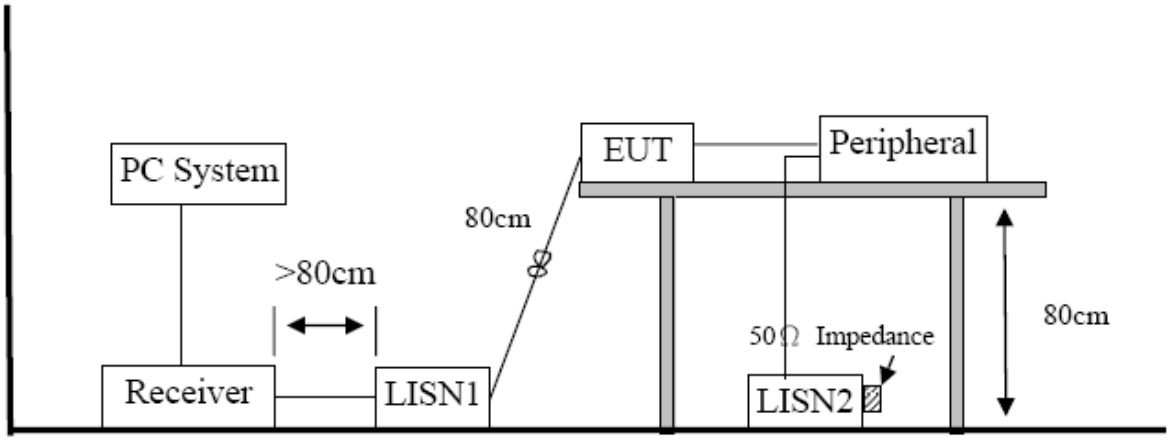
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Power Line Conducted Emission Test

3.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	R&S	ESCI	100363	2026-05-11	1 Year
2	LISN	R&S	KH3765	37650053	2026-05-11	1 Year
3	Pulse Limiter	R&S	ENY81-CA6	101862	2026-05-11	1 Year
4	RF Cable	HUBER	SUCOFLEX100	30722/4E	2026-05-11	1 Year
5	MEASUREMENT SOFTWARE	FARAD	EZ-EMC(VER:1.1.4.2)	N/A	N/A	N/A

3.2. BLOCK DIAGRAM OF TEST SETUP



3.3. Power Line Conducted Emission Limits (Class B)

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

Note 1: * Decreasing linearly with logarithm of frequency.

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

3.4. Test Procedure

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

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 3.2 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 30MHz 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 2.3 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.

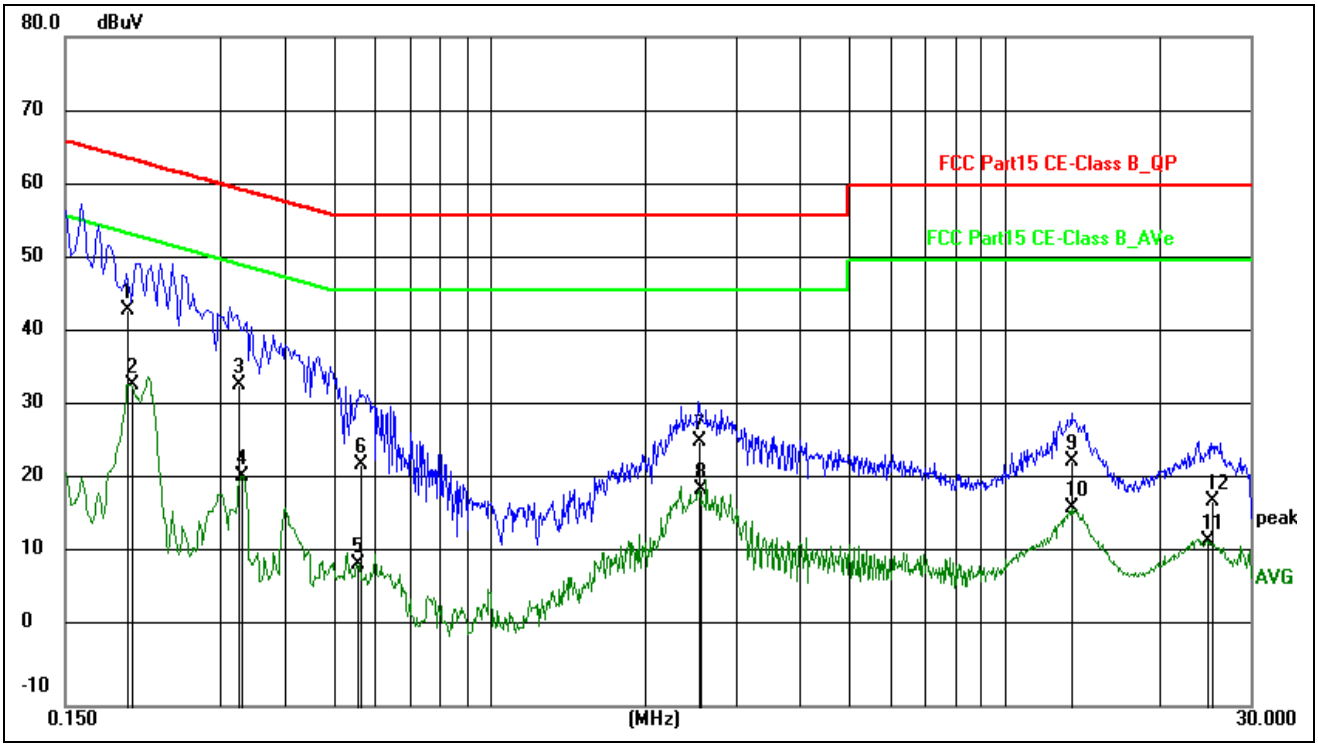
The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

3.5. Test Result

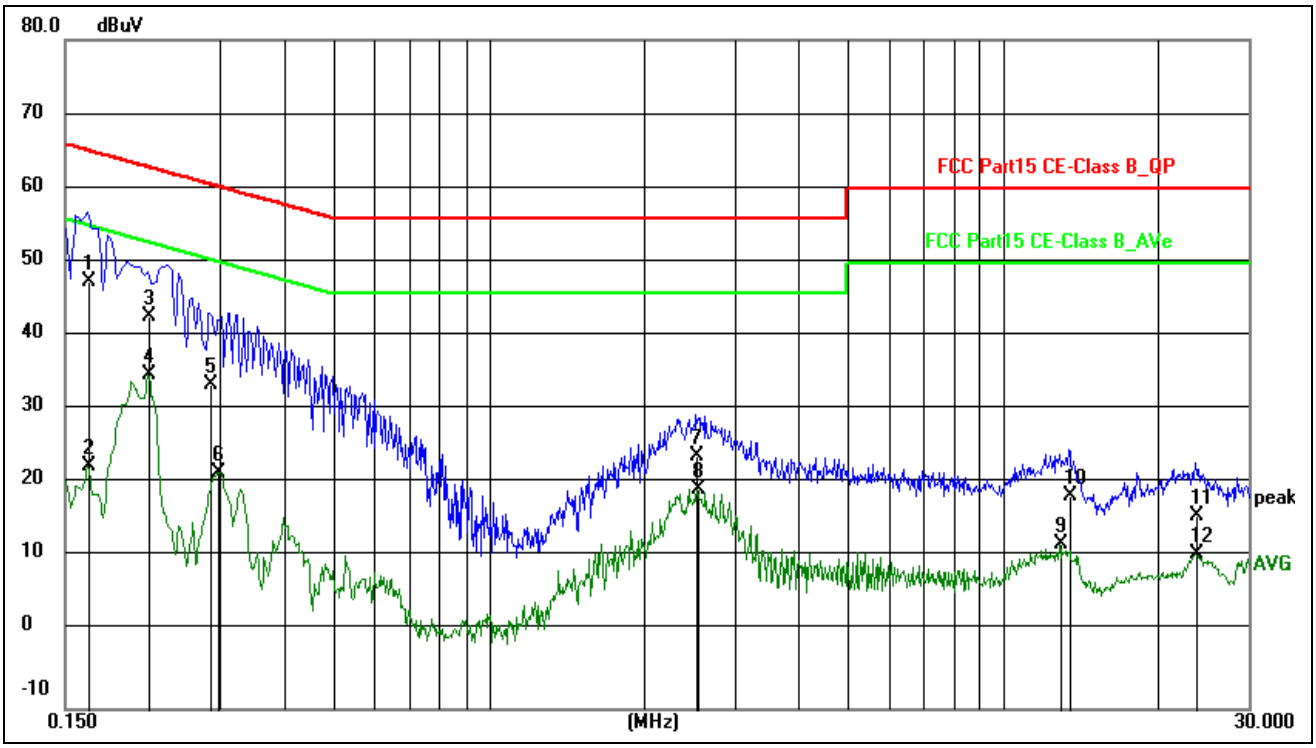
Note1: All emissions not reported below are too low against the prescribed limits.
Note2: “-----” means Peak detection; “-----” mans Average detection
Note3: Measurement = Reading Level + Factor, Margin= Measurement-Limit

Conducted Emission Test Result



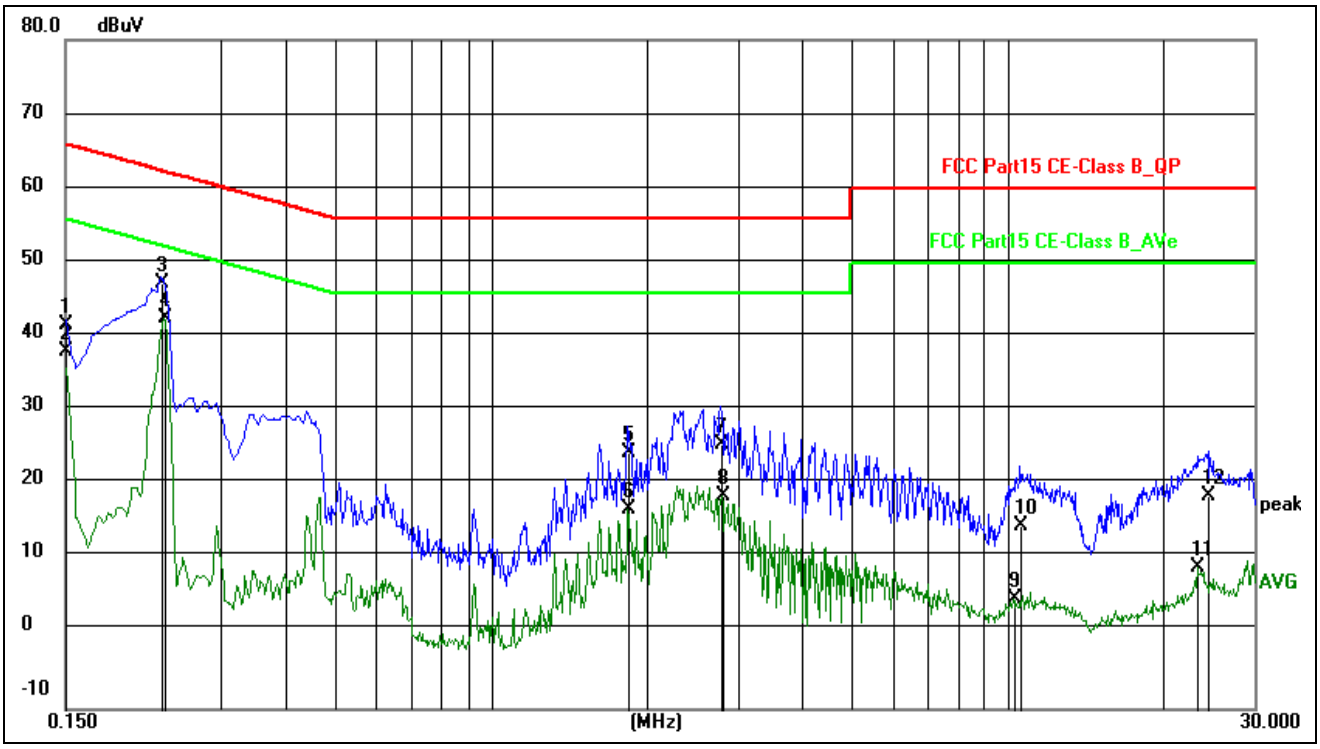
Site:	**844LAB**	**Phase:N**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 8:49:46**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1980	32.84	10.42	43.26	63.69	-20.43	QP	
2 *	0.2020	22.85	10.42	33.27	53.53	-20.26	AVG	
3	0.3260	22.84	10.45	33.29	59.55	-26.26	QP	
4	0.3300	10.57	10.45	21.02	49.45	-28.43	AVG	
5	0.5540	-1.34	10.45	9.11	46.00	-36.89	AVG	
6	0.5620	12.13	10.45	22.58	56.00	-33.42	QP	
7	2.5500	15.24	10.44	25.68	56.00	-30.32	QP	
8	2.5579	8.72	10.44	19.16	46.00	-26.84	AVG	
9	13.5500	12.67	10.38	23.05	60.00	-36.95	QP	
10	13.5500	6.23	10.38	16.61	50.00	-33.39	AVG	
11	24.7380	0.75	11.39	12.14	50.00	-37.86	AVG	
12	25.2060	6.25	11.40	17.65	60.00	-42.35	QP	



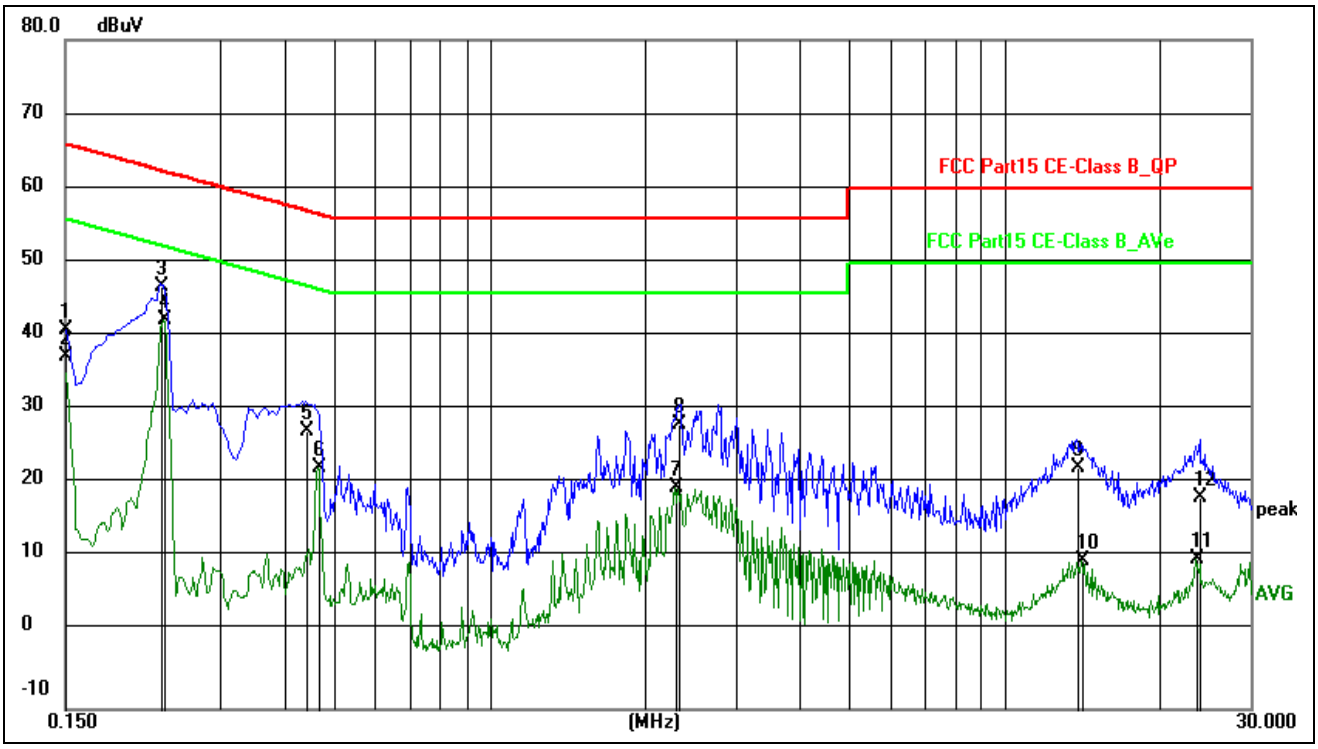
Site:	**844LAB**	**Phase:L1**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 8:53:12**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1 *	0.1660	37.04	10.43	47.47	65.16	-17.69	QP	
2	0.1660	12.37	10.43	22.80	55.16	-32.36	AVG	
3	0.2180	32.42	10.44	42.86	62.89	-20.03	QP	
4	0.2180	24.64	10.44	35.08	52.89	-17.81	AVG	
5	0.2863	23.18	10.45	33.63	60.63	-27.00	QP	
6	0.2980	11.45	10.45	21.90	50.30	-28.40	AVG	
7	2.5340	13.64	10.48	24.12	56.00	-31.88	QP	
8	2.5500	9.00	10.49	19.49	46.00	-26.51	AVG	
9	12.8620	1.65	10.54	12.19	50.00	-37.81	AVG	
10	13.4500	8.12	10.57	18.69	60.00	-41.31	QP	
11	23.6540	4.74	11.33	16.07	60.00	-43.93	QP	
12	23.6540	-0.50	11.33	10.83	50.00	-39.17	AVG	



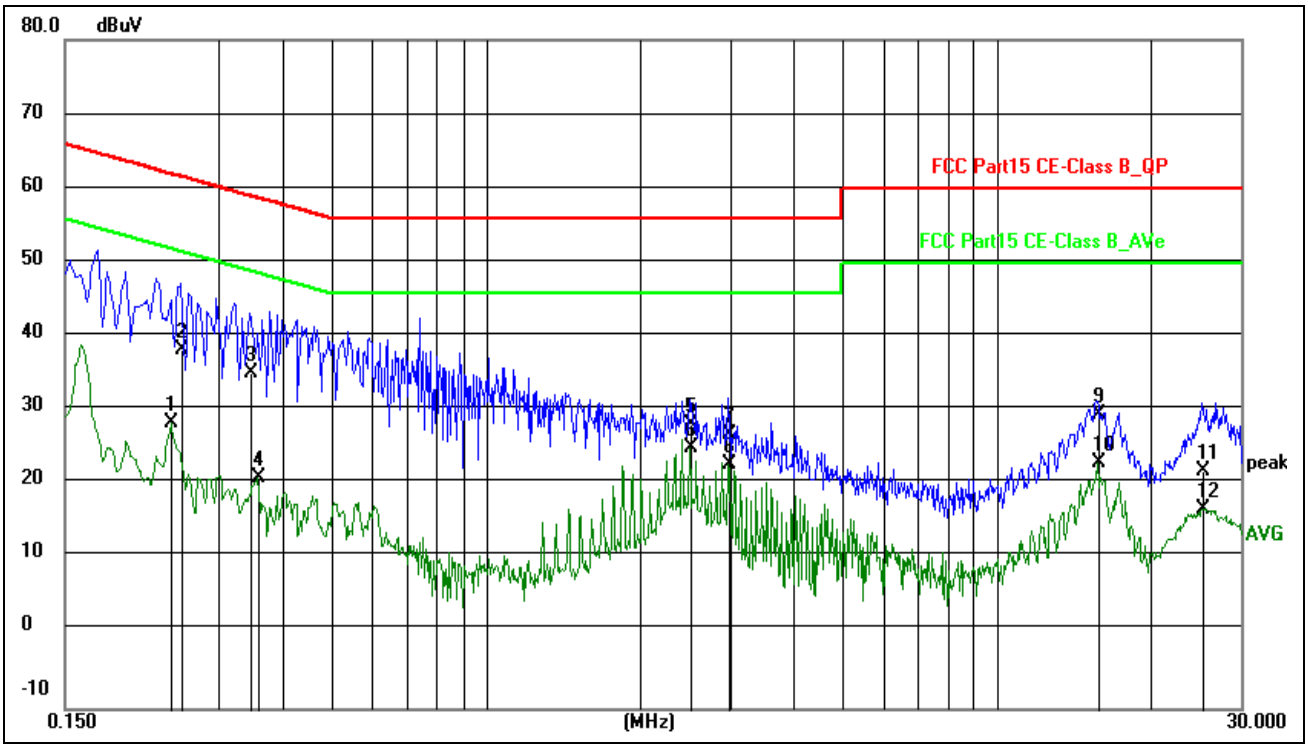
Site:	**844LAB**	**Phase:L1**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 8:56:59**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1500	31.18	10.43	41.61	66.00	-24.39	QP	
2	0.1500	27.68	10.43	38.11	56.00	-17.89	AVG	
3	0.2300	36.91	10.44	47.35	62.45	-15.10	QP	
4 *	0.2340	32.09	10.44	42.53	52.31	-9.78	AVG	
5	1.8460	14.01	10.51	24.52	56.00	-31.48	QP	
6	1.8460	6.39	10.51	16.90	46.00	-29.10	AVG	
7	2.7900	15.17	10.48	25.65	56.00	-30.35	QP	
8	2.7980	8.29	10.48	18.77	46.00	-27.23	AVG	
9	10.2540	-5.69	10.43	4.74	50.00	-45.26	AVG	
10	10.6020	4.19	10.45	14.64	60.00	-45.36	QP	
11	23.3020	-2.17	11.31	9.14	50.00	-40.86	AVG	
12	24.4580	7.32	11.38	18.70	60.00	-41.30	QP	



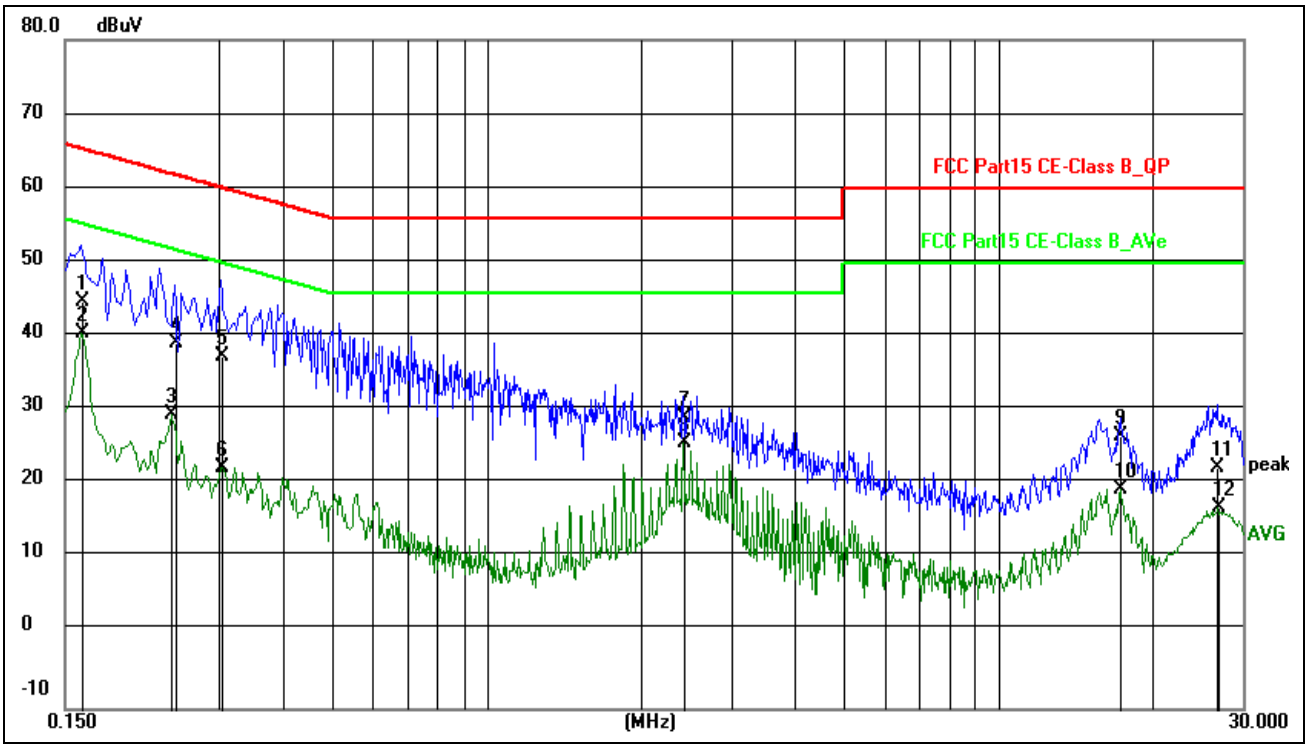
Site:	**844LAB**	**Phase:N**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 9:00:19**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1500	30.68	10.42	41.10	66.00	-24.90	QP	
2	0.1500	26.97	10.42	37.39	56.00	-18.61	AVG	
3	0.2300	36.32	10.43	46.75	62.45	-15.70	QP	
4 *	0.2340	31.89	10.43	42.32	52.31	-9.99	AVG	
5	0.4420	17.01	10.45	27.46	57.02	-29.56	QP	
6	0.4660	12.11	10.45	22.56	46.58	-24.02	AVG	
7	2.2900	9.33	10.44	19.77	46.00	-26.23	AVG	
8	2.3300	17.85	10.45	28.30	56.00	-27.70	QP	
9	13.8380	12.08	10.39	22.47	60.00	-37.53	QP	
10	14.0780	-0.46	10.38	9.92	50.00	-40.08	AVG	
11	23.5340	-1.10	11.35	10.25	50.00	-39.75	AVG	
12	24.0020	7.07	11.36	18.43	60.00	-41.57	QP	



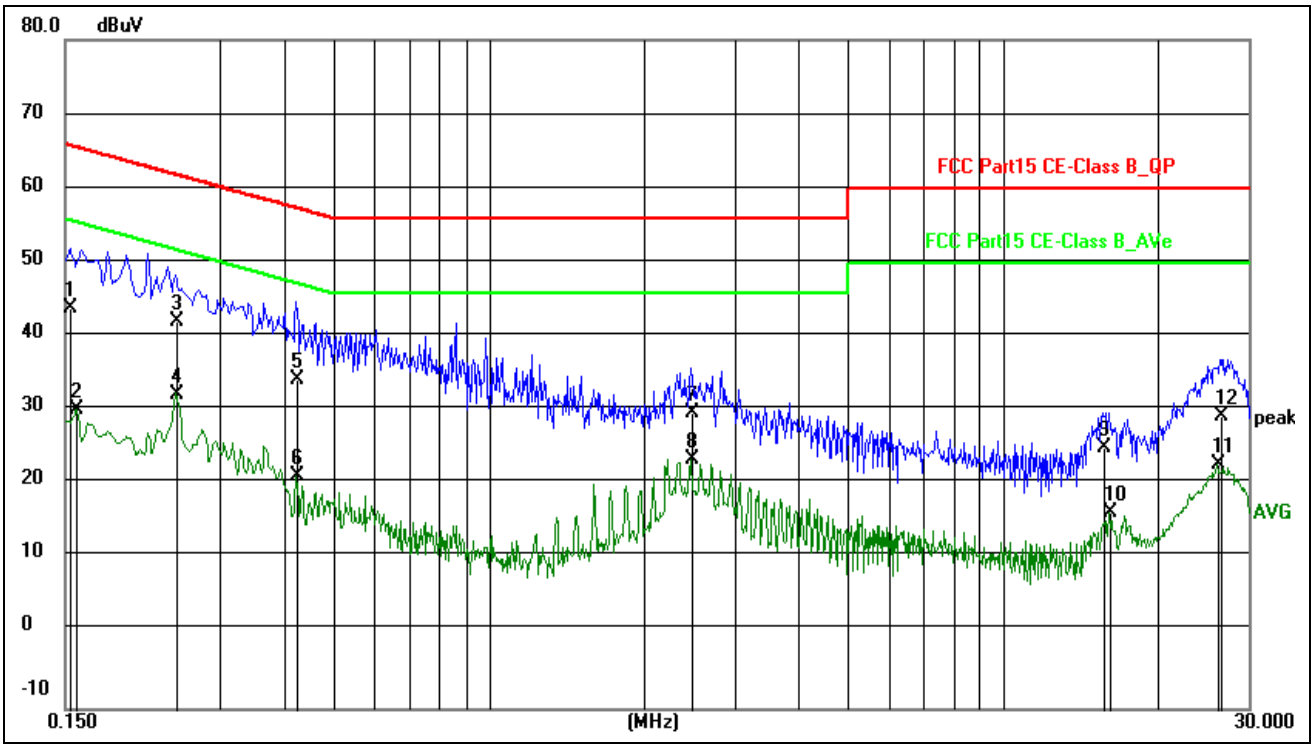
Site:	**844LAB**	**Phase:N**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 9:04:37**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.2420	18.08	10.43	28.51	52.03	-23.52	AVG	
2	0.2540	27.89	10.43	38.32	61.63	-23.31	QP	
3	0.3465	24.84	10.45	35.29	59.05	-23.76	QP	
4	0.3580	10.72	10.45	21.17	48.77	-27.60	AVG	
5	2.5059	17.80	10.43	28.23	56.00	-27.77	QP	
6 *	2.5059	14.67	10.43	25.10	46.00	-20.90	AVG	
7	2.9900	16.61	10.43	27.04	56.00	-28.96	QP	
8	2.9900	12.53	10.43	22.96	46.00	-23.04	AVG	
9	15.7620	19.18	10.51	29.69	60.00	-30.31	QP	
10	15.7620	12.68	10.51	23.19	50.00	-26.81	AVG	
11	25.1900	10.69	11.40	22.09	60.00	-37.91	QP	
12	25.1900	5.47	11.40	16.87	50.00	-33.13	AVG	



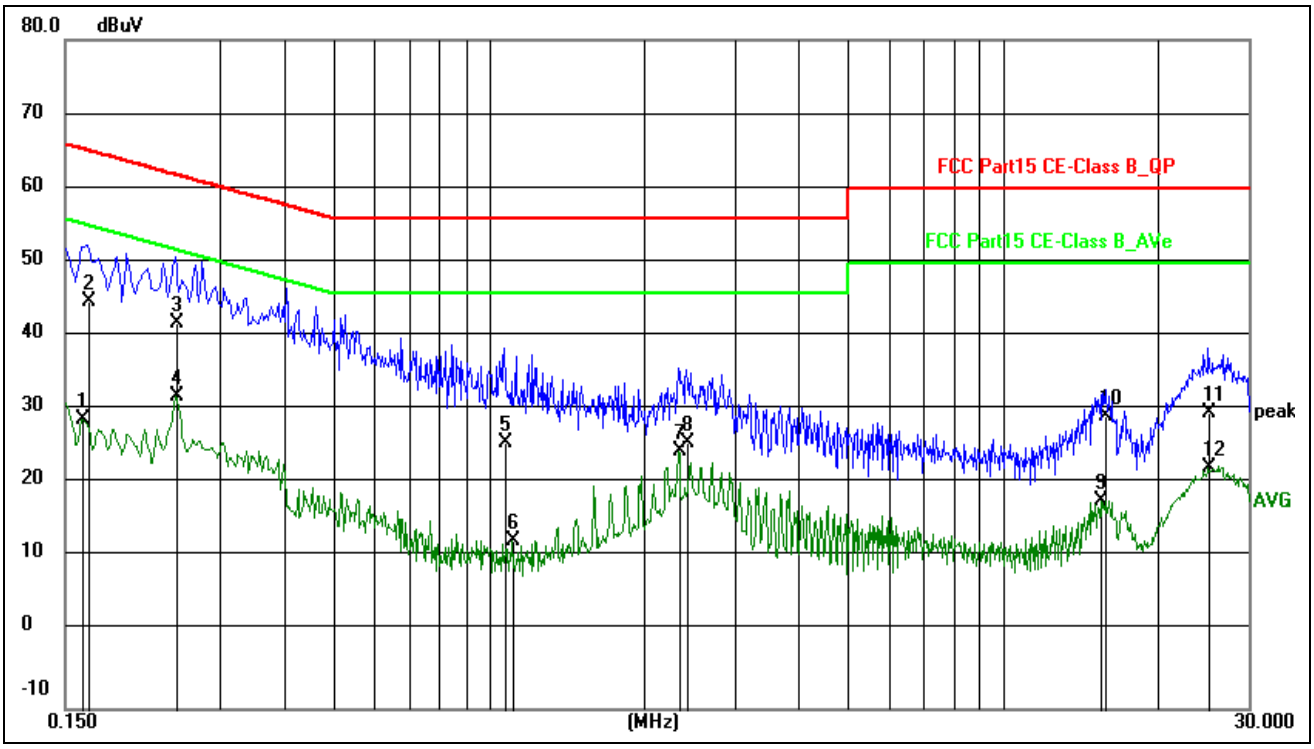
Site:	**844LAB**	**Phase:L1**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 9:07:59**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1620	34.31	10.44	44.75	65.36	-20.61	QP	
2 *	0.1620	30.22	10.44	40.66	55.36	-14.70	AVG	
3	0.2420	19.11	10.44	29.55	52.03	-22.48	AVG	
4	0.2460	28.86	10.44	39.30	61.89	-22.59	QP	
5	0.3020	26.93	10.45	37.38	60.19	-22.81	QP	
6	0.3020	12.05	10.45	22.50	50.19	-27.69	AVG	
7	2.4260	18.63	10.49	29.12	56.00	-26.88	QP	
8	2.4260	15.41	10.49	25.90	46.00	-20.10	AVG	
9	17.3260	15.84	10.86	26.70	60.00	-33.30	QP	
10	17.3260	8.68	10.86	19.54	50.00	-30.46	AVG	
11	26.8380	11.01	11.45	22.46	60.00	-37.54	QP	
12	26.9540	5.63	11.45	17.08	50.00	-32.92	AVG	



Site:	**844LAB**	**Phase:L1**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 9:11:28**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1539	33.61	10.43	44.04	65.79	-21.75	QP	
2	0.1580	19.97	10.43	30.40	55.57	-25.17	AVG	
3	0.2460	31.61	10.44	42.05	61.89	-19.84	QP	
4 *	0.2460	21.99	10.44	32.43	51.89	-19.46	AVG	
5	0.4220	23.87	10.47	34.34	57.41	-23.07	QP	
6	0.4220	10.96	10.47	21.43	47.41	-25.98	AVG	
7	2.4820	19.32	10.49	29.81	56.00	-26.19	QP	
8	2.4820	13.11	10.49	23.60	46.00	-22.40	AVG	
9	15.6980	14.53	10.71	25.24	60.00	-34.76	QP	
10	16.1140	5.62	10.74	16.36	50.00	-33.64	AVG	
11	26.1060	11.40	11.43	22.83	50.00	-27.17	AVG	
12	26.4660	18.04	11.44	29.48	60.00	-30.52	QP	



Site:	**844LAB**	**Phase:N**	**Temperature(C):24(C)**
Limit:	**FCC Part15 CE-Class B_QP**		**Humidity(%):63%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 9:15:32**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1620	18.58	10.42	29.00	55.36	-26.36	AVG	
2	0.1660	34.30	10.42	44.72	65.16	-20.44	QP	
3	0.2460	31.51	10.43	41.94	61.89	-19.95	QP	
4 *	0.2460	21.69	10.43	32.12	51.89	-19.77	AVG	
5	1.0740	15.39	10.48	25.87	56.00	-30.13	QP	
6	1.1140	2.13	10.47	12.60	46.00	-33.40	AVG	
7	2.3340	14.18	10.45	24.63	46.00	-21.37	AVG	
8	2.4219	15.48	10.44	25.92	56.00	-30.08	QP	
9	15.4980	7.67	10.46	18.13	50.00	-31.87	AVG	
10	15.8740	18.97	10.53	29.50	60.00	-30.50	QP	
11	25.1460	18.45	11.39	29.84	60.00	-30.16	QP	
12	25.1460	11.08	11.39	22.47	50.00	-27.53	AVG	

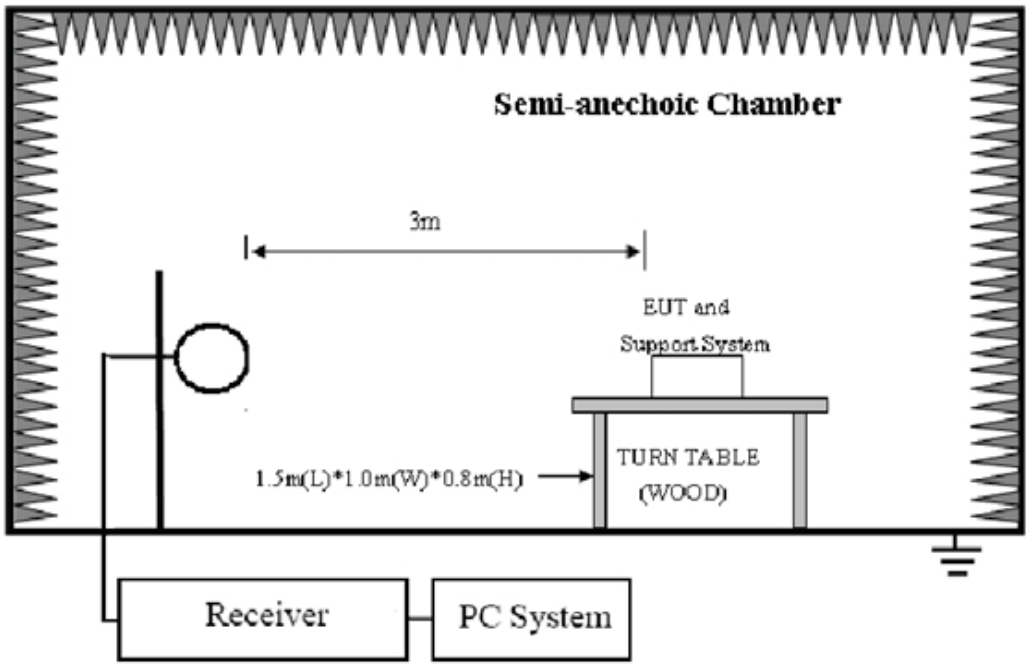
4. Radiated emission test

4.1. Test equipment

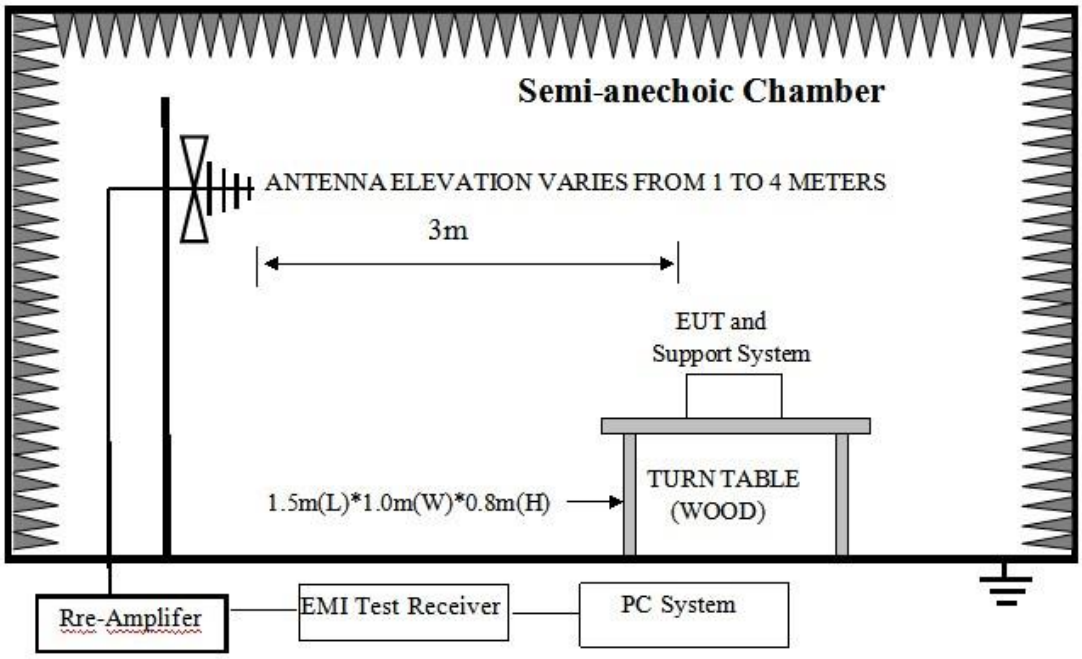
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESCI	101699	2026-05-11	1Year
2	EMI Test Receiver	R&S	FSP40	101289	2026-05-11	1Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9168	00969	2025-05-08	2 Year
4	Pre-amplifier	R&S	8447F	3113A04553	2026-05-11	1Year
5	Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	2025-05-08	2Year
6	Horn antenna	Schwarzbeck	BBHA9120D	453	2025-05-08	2Year
7	Double Ridged Horn Antenna	A.H. System	SAS-574	584	2025-05-08	2Year
8	Pre-amplifier	R&S	SCU18	105326	2026-05-11	1Year
9	RF Cable	GORE	OSQ01Q01078.7	SN15458473	2026-05-11	1Year
10	RF Cable	GORE	OSQ01Q01078.7	SN15458474	2026-05-11	1Year
11	RF Cable	ESCO	ETS-LINGREN	RFC-SMS-100-SMS-340-IN	2026-05-11	1Year
12	Measurement software	Farad	EZ-EMC(VER:1.1.4.2)	N/A	N/A	N/A

4.2. Block diagram of test setup

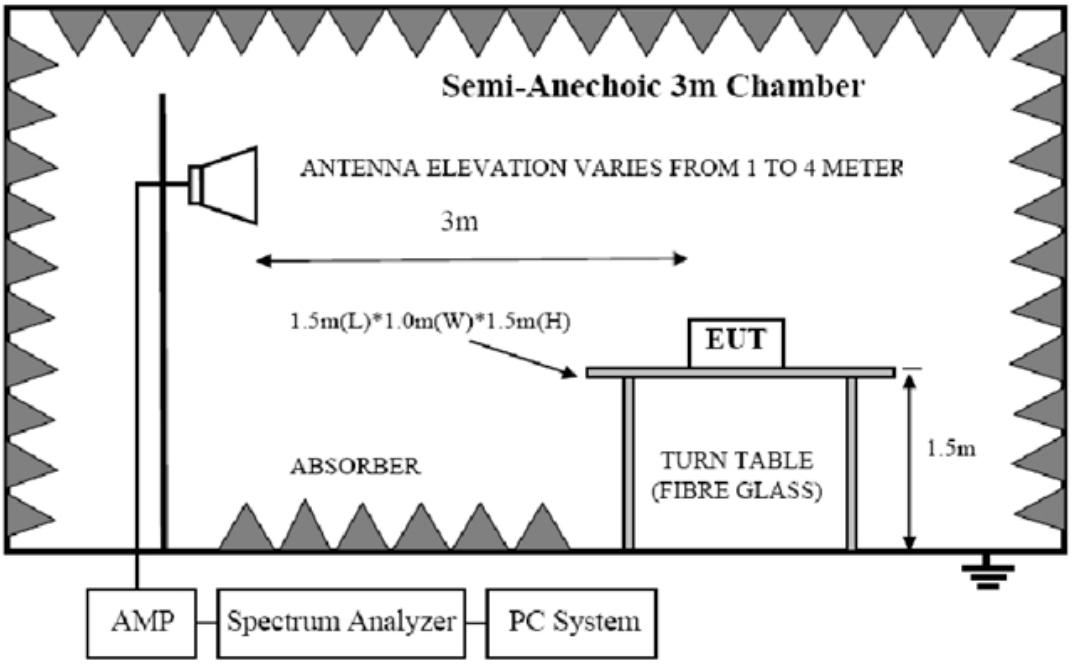
In 3m Anechoic Chamber Test Setup Diagram for 9KHz to 30MHz:



In 3m Anechoic Chamber Test Setup Diagram for 30MHz to 1GHz:



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz:



4.3. Limit

FCC 15.205 Restricted frequency band:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

FCC 15.109 Limit

Frequency (MHz)	Distance (Meters)	Field Strengths Limits dB(μV)/m
30--88	3	40.0
88--216	3	43.5
216--960	3	46.0
960--1000	3	54.0
Above 1GHz	3	Peak: 74.0
	3	Average:54.0

Note: (1) The smaller limit shall apply at the cross point between two frequency bands.

(2)Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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

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

Limit 3m(dBuV/m)= Limit30m(dBuV/m) + 40Log(30m/3m)

(5)All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.109, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.109 limits.

4.4. Test Procedure

Procedure of Preliminary Test

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 4.2 of this report.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

EUT height should be 0.8m for below 1GHz and 1.5m for above 1GHz at ground with absorbers.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.10. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The X, Y, Z three axial are tested and the report only the worst case.

The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW:

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

For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure.

4.5. Test result

PASS. (See below detailed test result)

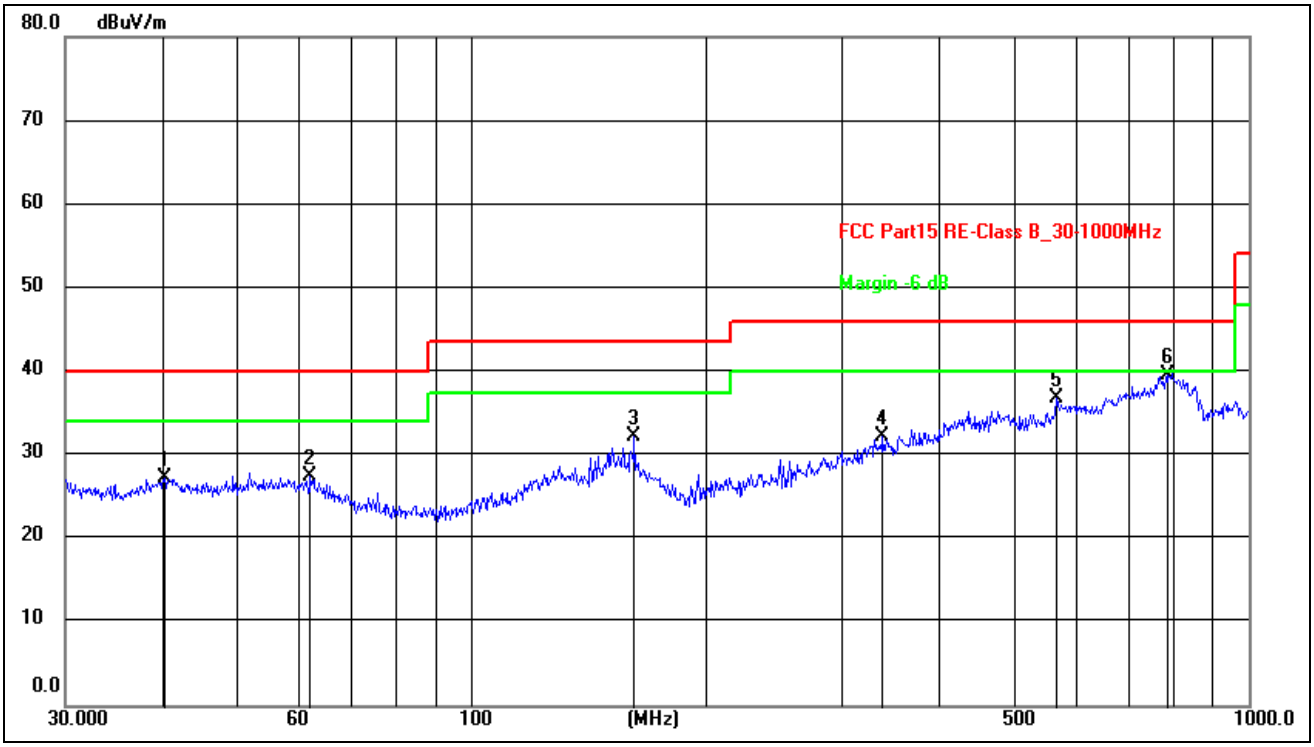
1.Radiated emissions were evaluated from 30 MHz to 26.5 GHz and are reported below.

2. For the 9 kHz–30 MHz frequency range, all measurements taken with the active loop antenna were greater than 20 dB below the limit.

For the 26.5 GHz–40 GHz range, emissions were scanned and found to be at least 20 dB below the applicable limits.

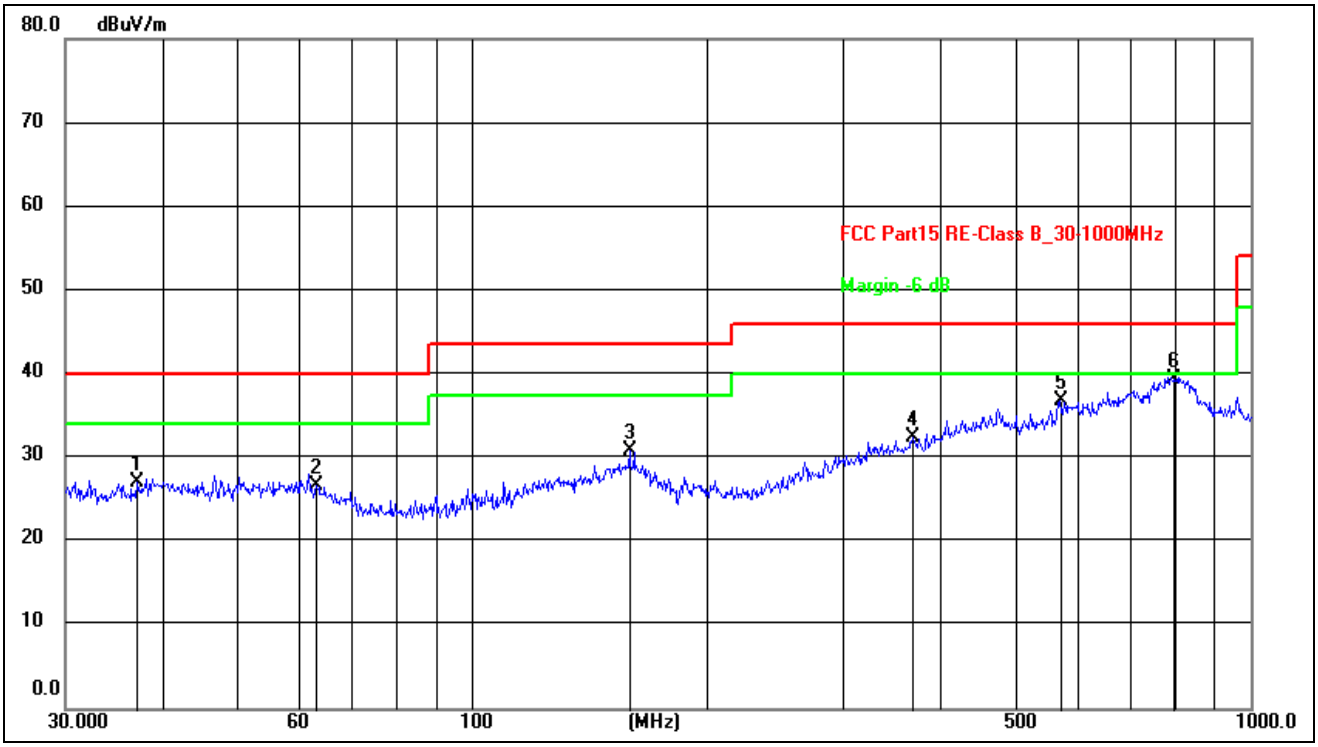
Consequently, no tabulated results are presented for either band.

Radiated Emission Test Result



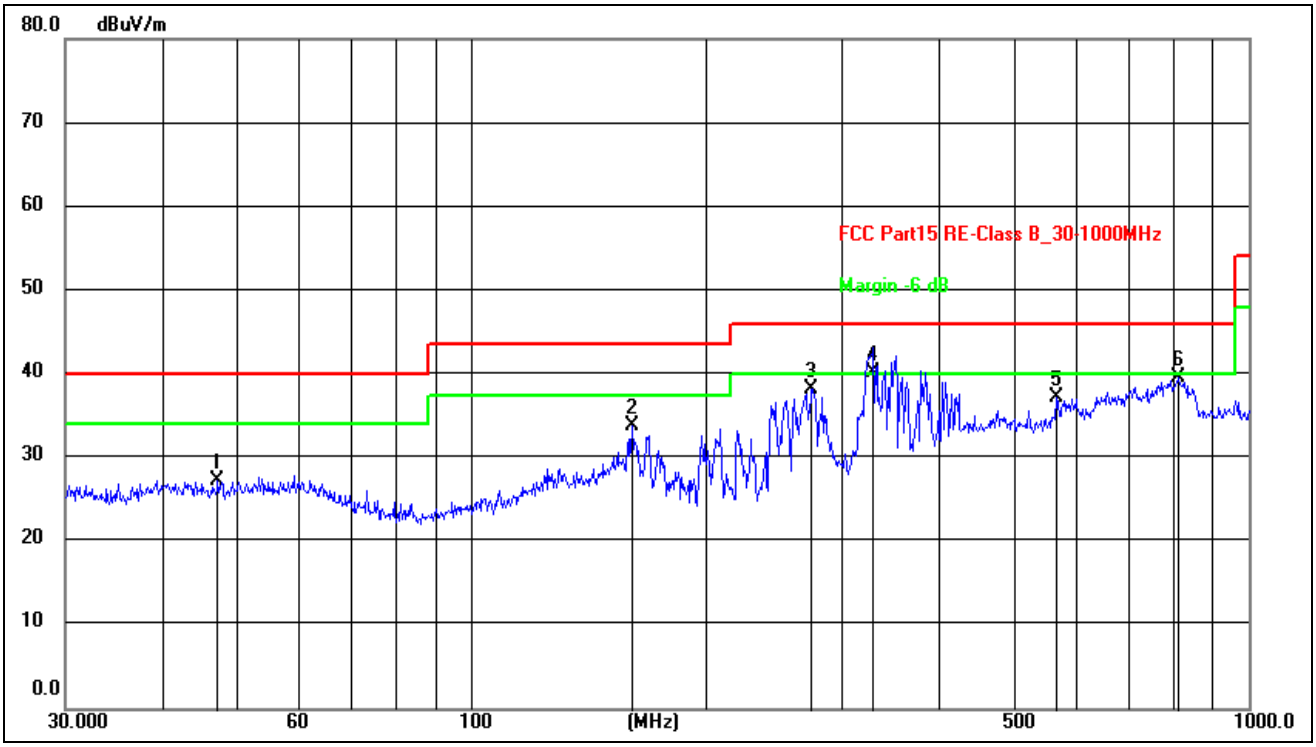
Site:	**966LAB**	**Antenna::Horizontal**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:15:50**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	40.2756	13.57	13.71	27.28	40.00	-12.72	peak	200	305	
2	61.9950	14.65	12.82	27.47	40.00	-12.53	peak	200	254	
3	162.0413	17.41	14.79	32.20	43.50	-11.30	peak	200	257	
4	338.4000	16.70	15.64	32.34	46.00	-13.66	peak	100	38	
5	566.6221	16.13	20.71	36.84	46.00	-9.16	peak	200	144	
6 *	787.8512	14.53	25.11	39.64	46.00	-6.36	peak	200	4	



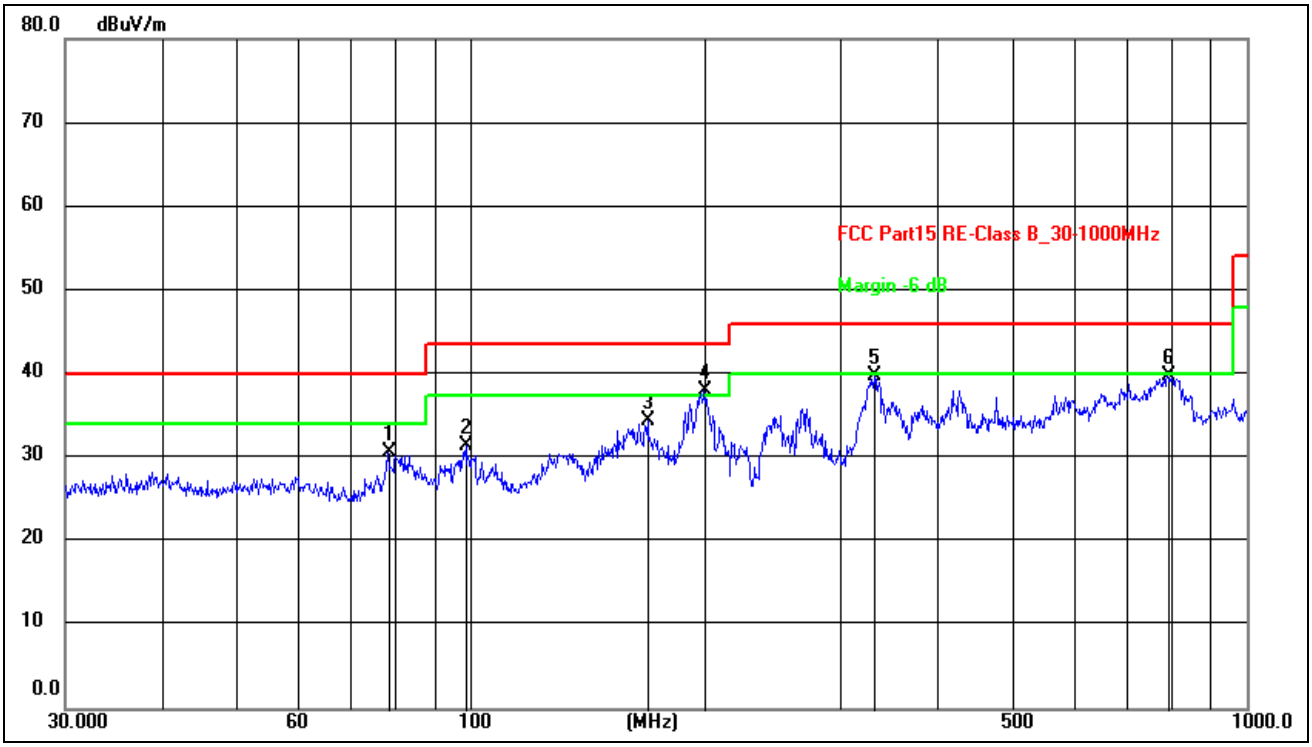
Site:	**966LAB**	**Antenna::Vertical**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:18:27**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	37.0248	14.11	13.07	27.18	40.00	-12.82	peak	100	3	
2	63.0916	14.05	12.60	26.65	40.00	-13.35	peak	100	314	
3	159.2251	15.85	15.08	30.93	43.50	-12.57	peak	100	3	
4	368.1116	16.66	15.86	32.52	46.00	-13.48	peak	100	3	
5	568.6127	16.07	20.80	36.87	46.00	-9.13	peak	200	356	
6 *	796.1830	14.19	25.23	39.42	46.00	-6.58	peak	100	318	



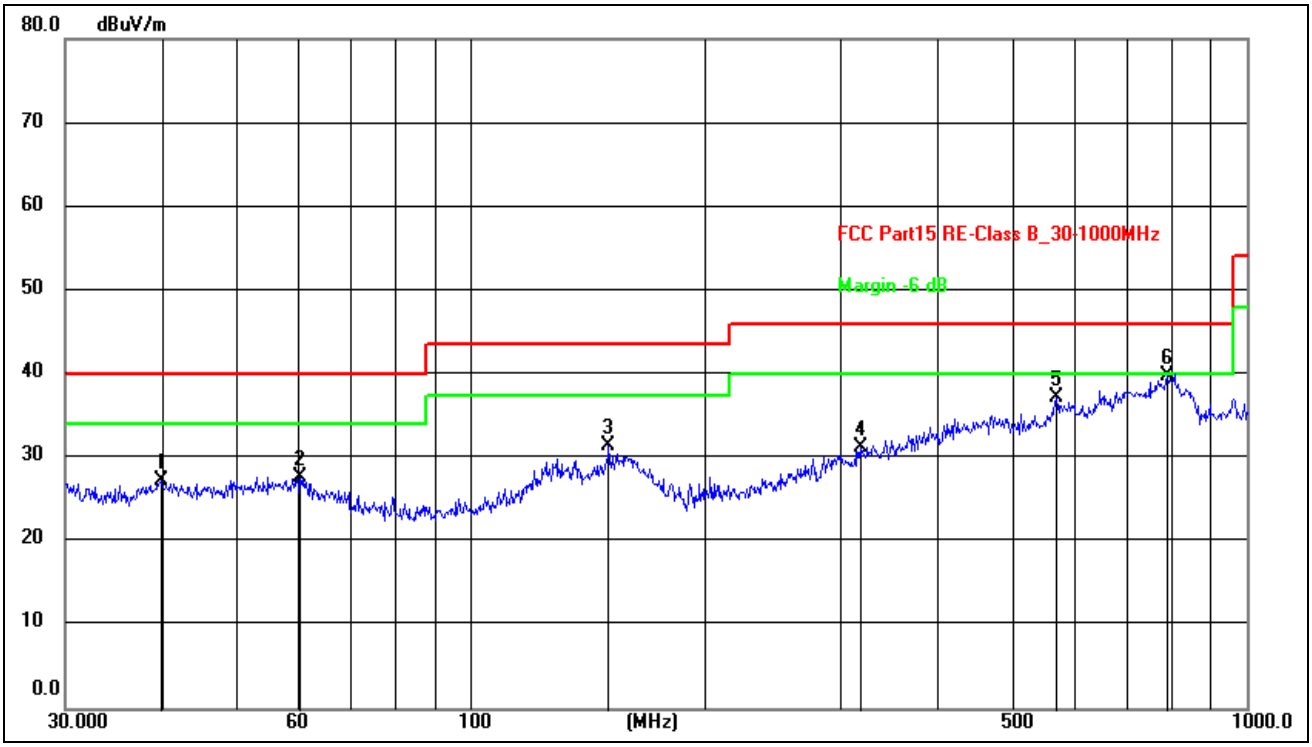
Site:	**966LAB**	**Antenna::Horizontal**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:27:59**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	47.1598	14.29	13.10	27.39	40.00	-12.61	peak	200	4	
2	160.9089	18.86	14.98	33.84	43.50	-9.66	peak	100	288	
3	274.1938	24.72	13.56	38.28	46.00	-7.72	peak	100	288	
4 *	329.0390	24.49	15.75	40.24	46.00	-5.76	QP	100	282	
5	566.6221	16.56	20.71	37.27	46.00	-8.73	peak	100	55	
6	813.1114	14.40	25.22	39.62	46.00	-6.38	peak	100	123	



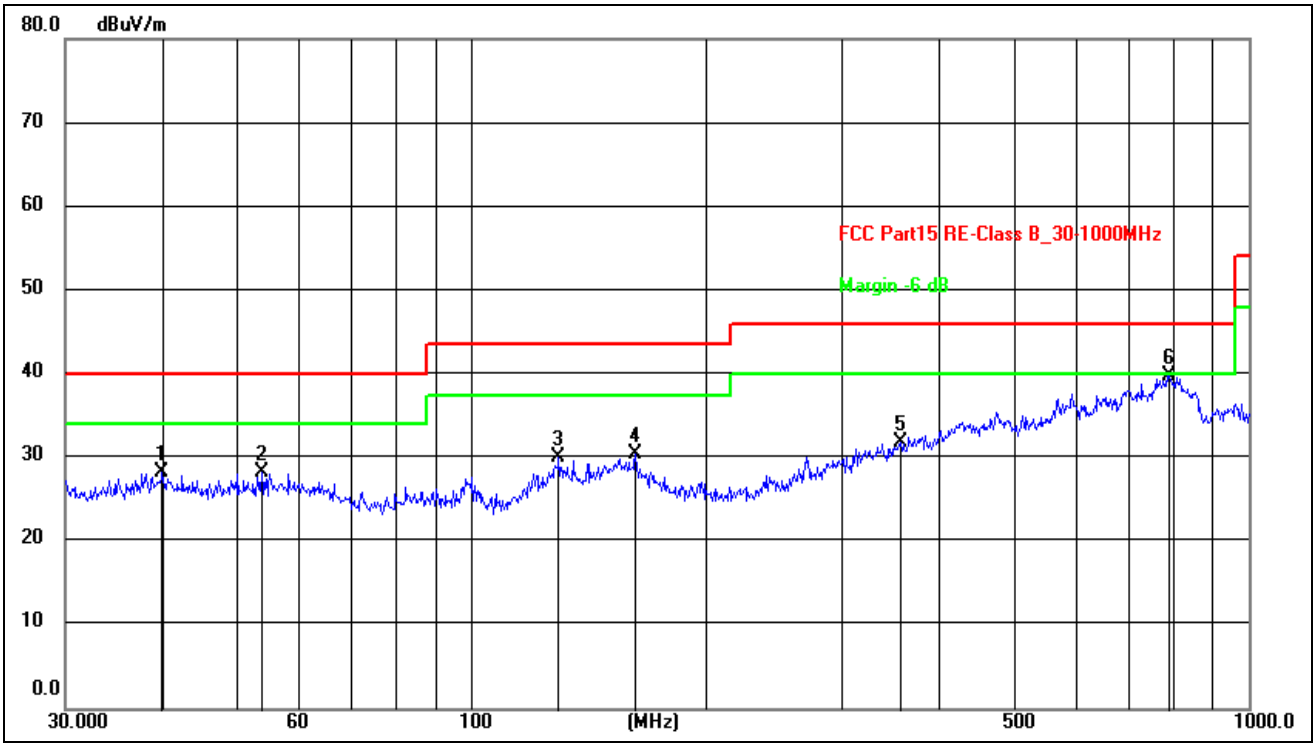
Site:	**966LAB**	**Antenna::Vertical**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:30:36**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Maximum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	78.1389	20.46	10.15	30.61	40.00	-9.39	peak	100	4	
2	98.4866	20.71	10.77	31.48	43.50	-12.02	peak	100	322	
3	169.0054	20.72	13.64	34.36	43.50	-9.14	peak	100	301	
4 *	199.9856	27.11	10.99	38.10	43.50	-5.40	peak	100	277	
5	331.3546	24.16	15.72	39.88	46.00	-6.12	peak	100	4	
6	790.6188	14.56	25.16	39.72	46.00	-6.28	peak	100	226	



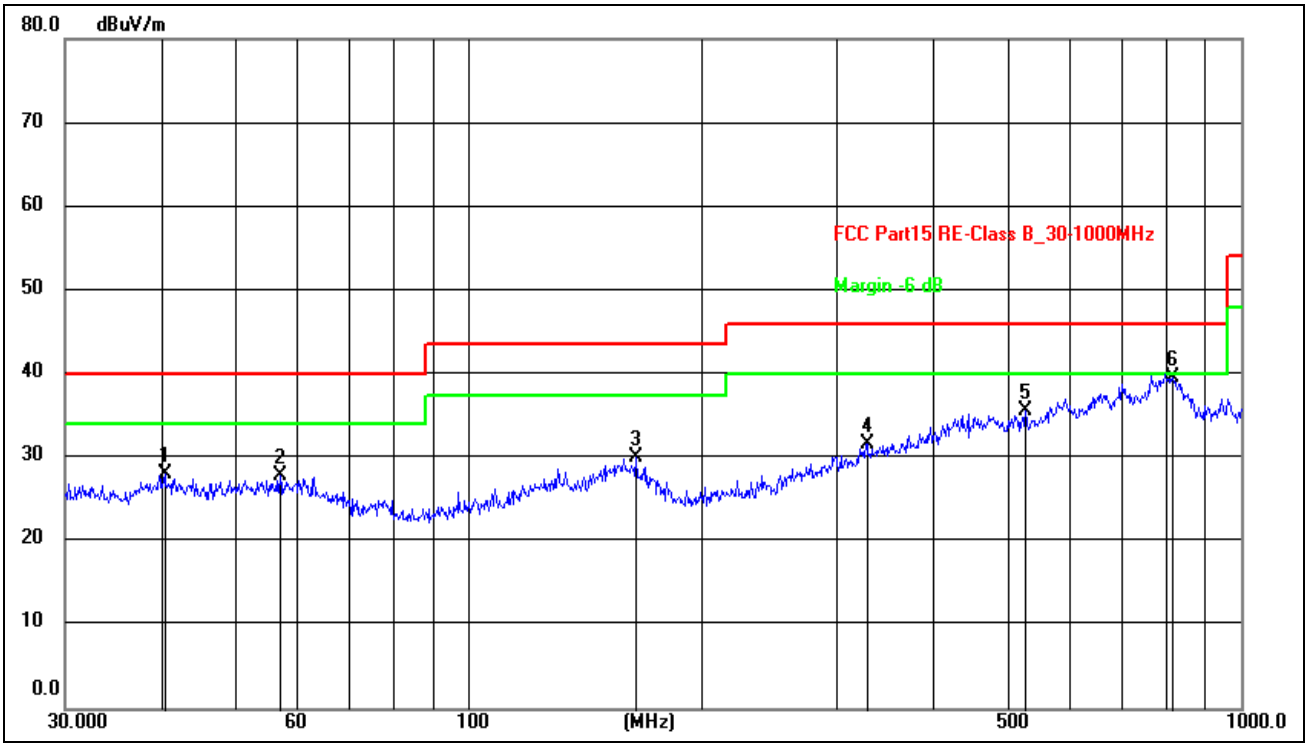
Site:	**966LAB**	**Antenna::Horizontal**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:40:27**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	39.9942	13.53	13.74	27.27	40.00	-12.73	peak	200	4	
2	60.2801	14.56	13.17	27.73	40.00	-12.27	peak	100	268	
3	150.5377	16.95	14.52	31.47	43.50	-12.03	peak	200	87	
4	317.7010	16.05	15.28	31.33	46.00	-14.67	peak	100	122	
5	568.6126	16.48	20.80	37.28	46.00	-8.72	peak	200	267	
6 *	790.6187	14.57	25.16	39.73	46.00	-6.27	peak	200	358	



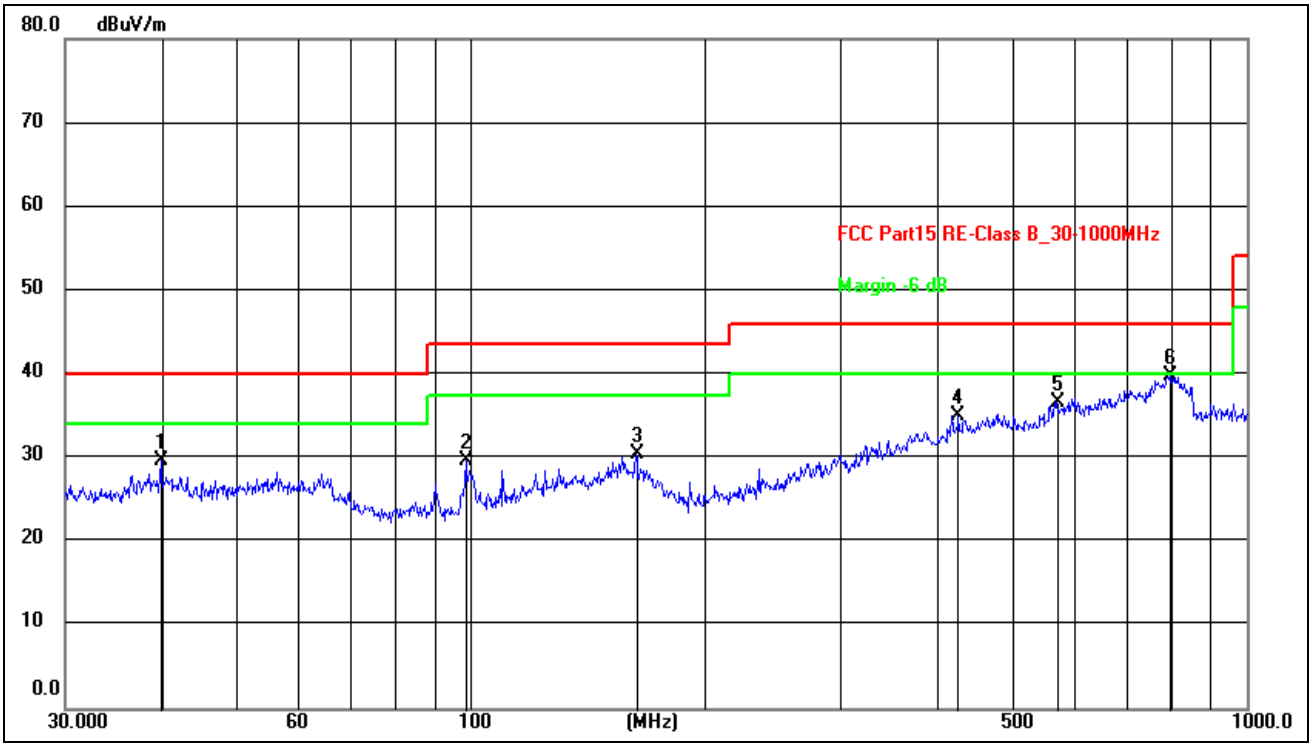
Site:	**966LAB**	**Antenna::Vertical**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:43:04**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 347V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	39.9942	14.64	13.74	28.38	40.00	-11.62	peak	100	4	
2	53.6931	14.96	13.23	28.19	40.00	-11.81	peak	100	189	
3	129.4677	16.41	13.59	30.00	43.50	-13.50	peak	200	338	
4	162.6105	15.69	14.70	30.39	43.50	-13.11	peak	100	45	
5	356.6758	16.15	15.63	31.78	46.00	-14.22	peak	100	4	
6 *	790.6187	14.68	25.16	39.84	46.00	-6.16	peak	100	165	



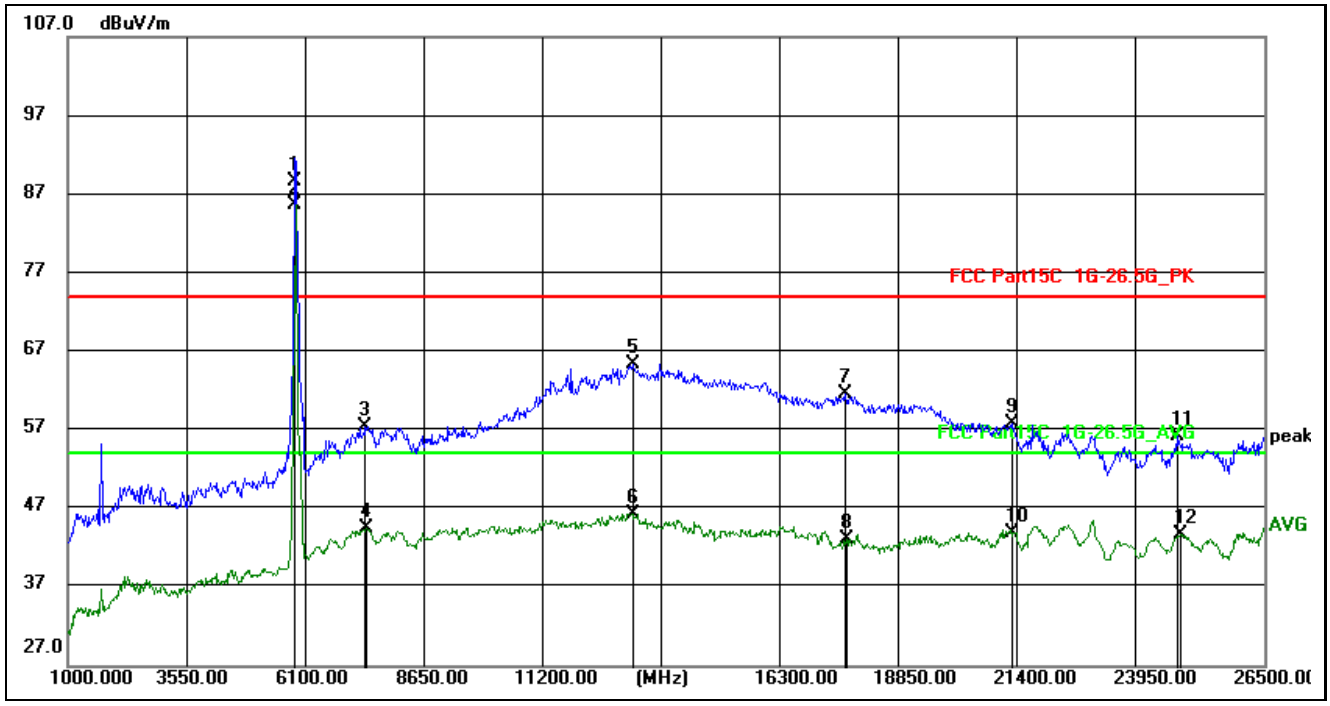
Site:	**966LAB**	**Antenna::Horizontal**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:50:39**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	40.4170	14.32	13.68	28.00	40.00	-12.00	peak	100	157	
2	56.9912	14.75	13.23	27.98	40.00	-12.02	peak	200	185	
3	164.9074	15.79	14.32	30.11	43.50	-13.39	peak	100	279	
4	327.8872	16.00	15.76	31.76	46.00	-14.24	peak	100	13	
5	526.3967	16.10	19.49	35.59	46.00	-10.41	peak	200	144	
6 *	815.9678	14.37	25.20	39.57	46.00	-6.43	peak	200	188	



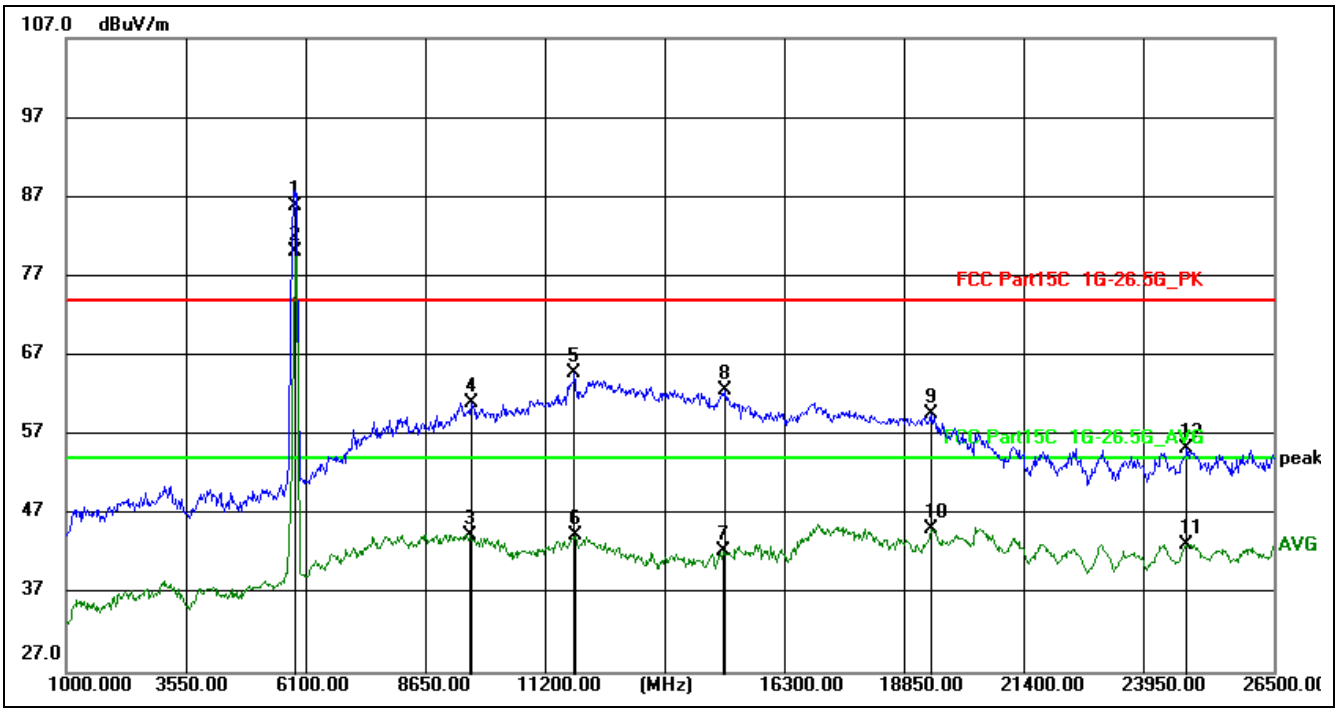
Site:	**966LAB**	**Antenna::Vertical**	**Temperature(C):24(C)**
Limit:	**FCC Part15 RE-Class B_30-1000MHz**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/1 10:53:15**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:	**Minimum brightness**		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	39.8542	15.97	13.71	29.68	40.00	-10.32	peak	200	287	
2	98.4866	18.95	10.77	29.72	43.50	-13.78	peak	100	80	
3	163.1818	15.95	14.60	30.55	43.50	-12.95	peak	100	63	
4	425.0280	17.30	17.70	35.00	46.00	-11.00	peak	100	87	
5	568.6127	15.91	20.80	36.71	46.00	-9.29	peak	100	4	
6 *	796.1829	14.50	25.23	39.73	46.00	-6.27	peak	200	85	



Site:	**966LAB**	**Antenna::Horizontal**	**Temperature(C):24(C)**
Limit:	**FCC Part15C 1G-26.5G_PK**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/20 10:53:15**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 X	5825.376	92.39	-3.83	88.56	114.00	-25.44	peak	100	41	Fundamental
2 *	5825.376	89.40	-3.83	85.57	94.00	-8.43	AVG	100	41	Fundamental
3	7349.500	55.48	2.07	57.55	74.00	-16.45	peak	100	335	
4	7349.500	42.56	2.10	44.66	54.00	-9.34	AVG	100	335	
5	13036.000	56.42	8.99	65.41	74.00	-8.59	peak	200	213	
6	13036.000	37.41	8.99	46.40	54.00	-7.60	AVG	200	213	
7	17575.000	49.40	12.21	61.61	74.00	-12.39	peak	100	54	
8	17575.000	31.05	12.21	43.26	54.00	-10.74	AVG	100	54	
9	21145.000	79.09	-21.24	57.85	74.00	-16.15	peak	200	33	
10	21145.000	65.30	-21.24	44.06	54.00	-9.94	AVG	200	33	
11	24638.500	72.89	-16.69	56.20	74.00	-17.80	peak	200	112	
12	24638.500	60.28	-16.54	43.74	54.00	-10.26	AVG	200	112	



Site:	**966LAB**	**Antenna::Vertical**	**Temperature(C):24(C)**
Limit:	**FCC Part15C 1G-26.5G_PK**		**Humidity(%):60%**
EUT:	**LED GARAEG CANOPY**	**Test Time:**	**2026/4/20 10:53:15**
M/N.:	**SGC-F-70-LSCS-UNVC,ECP270WLSCS**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Lighting**	**Test Engineer:**	**Taylor Chen**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 X	5825.376	89.66	-3.83	85.83	114.00	-28.17	peak	100	35	Fundamental
2 *	5825.376	83.88	-3.83	80.05	94.00	-13.95	AVG	100	35	Fundamental
3	9517.000	39.33	5.02	44.35	54.00	-9.65	AVG	200	212	
4	9517.000	56.01	5.07	61.08	74.00	-12.92	peak	200	212	
5	11735.500	55.89	8.89	64.78	74.00	-9.22	peak	200	335	
6	11735.500	35.54	8.88	44.42	54.00	-9.58	AVG	200	335	
7	14872.000	29.29	13.03	42.32	54.00	-11.68	AVG	300	112	
8	14872.000	49.78	12.79	62.57	74.00	-11.43	peak	300	112	
9	19258.000	83.92	-24.36	59.56	74.00	-14.44	peak	100	25	
10	19258.000	69.53	-24.30	45.23	54.00	-8.77	AVG	100	25	
11	24638.500	59.90	-16.69	43.21	54.00	-10.79	AVG	100	55	
12	24638.500	71.90	-16.64	55.26	74.00	-18.74	peak	100	55	

Results of Band Edges Test(Radiated)

								HORIZONTAL	
Frequncy (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	Preampli-fier (dB)	Correction Factor (dB/m)
5721.50	57.71	PK	74.00	-16.29	67.44	27.58	4.70	42.02	-9.74
5721.50	47.48	AV	54.00	-6.52	57.21	27.58	4.70	42.02	-9.74
5724.00	58.55	PK	74.00	-15.45	69.34	27.54	4.46	42.79	-10.79
5724.00	45.41	AV	54.00	-8.59	56.20	27.54	4.46	42.79	-10.79

								VERTICAL	
Frequncy (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	Preampli-fier (dB)	Correction Factor (dB/m)
5721.50	58.14	PK	74.00	-15.86	67.87	27.58	4.70	42.02	-9.74
5721.50	47.56	AV	54.00	-6.44	57.30	27.58	4.70	42.02	-9.74
5724.00	58.49	PK	74.00	-15.51	69.28	27.54	4.46	42.79	-10.79
5724.00	45.70	AV	54.00	-8.30	56.49	27.54	4.46	42.79	-10.79

								HORIZONTAL	
Frequncy (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	Preampli-fier (dB)	Correction Factor (dB/m)
5876.00	58.90	PK	74.00	-15.10	69.54	27.54	4.54	42.72	-10.64
5876.00	49.27	AV	54.00	-4.73	59.91	27.54	4.54	42.72	-10.64
5879.00	57.34	PK	74.00	-16.66	67.89	27.68	4.02	42.24	-10.55
5879.00	47.32	AV	54.00	-6.68	57.87	27.68	4.02	42.24	-10.55

								VERTICAL	
Frequncy (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	Preampli-fier (dB)	Correction Factor (dB/m)
5876.00	58.71	PK	74.00	-15.29	69.35	27.54	4.54	42.72	-10.64
5876.00	50.87	AV	54.00	-3.13	61.50	27.54	4.54	42.72	-10.64
5879.00	58.25	PK	74.00	-15.75	68.79	27.68	4.02	42.24	-10.55
5879.00	50.37	AV	54.00	-3.63	60.92	27.68	4.02	42.24	-10.55

Note: 1. Result Level = Reading Level + Antenna Factor + Cable loss – Pre-amp Factor.

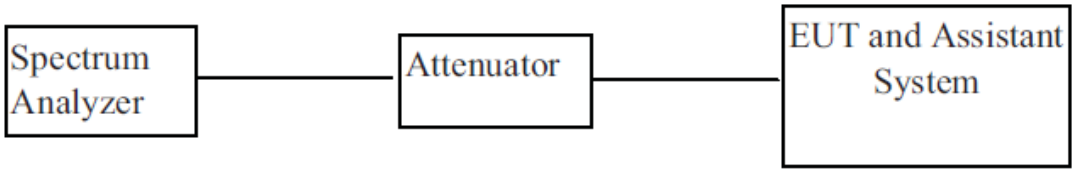
2. Antenna polarization: “H” means Horizontal , “V” means Vertical.

5. -20dB Bandwidth

5.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	MXA Signal Analyzer	KEYSIGHT	N9020A	MY50141563	2026-05-11	1 Year

5.2. BLOCK DIAGRAM OF TEST SETUP



5.3. Limit

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.

5.4. Test Procedure

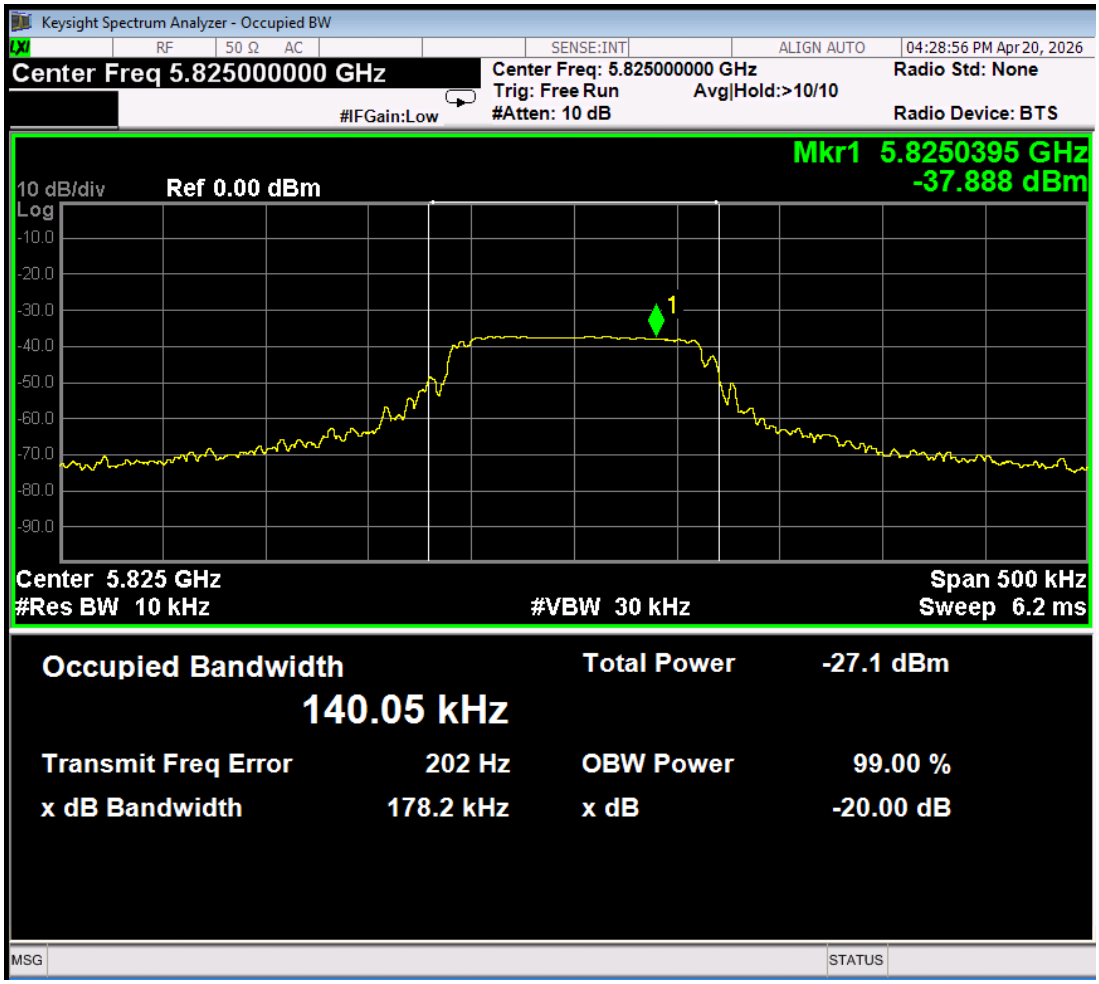
(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10 kHz RBW

and 30 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.5. Test result

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	user	5825	Ant 1	0.1401	0.1782	0.5%*5865=29.125	Pass

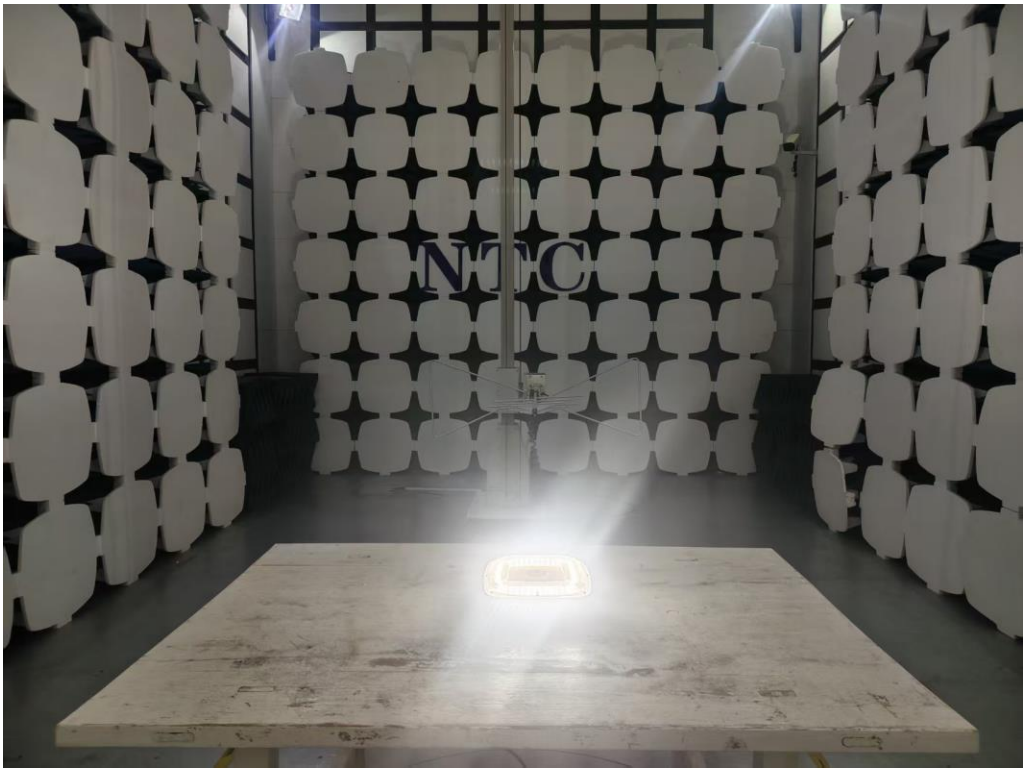


6. Test setup photograph

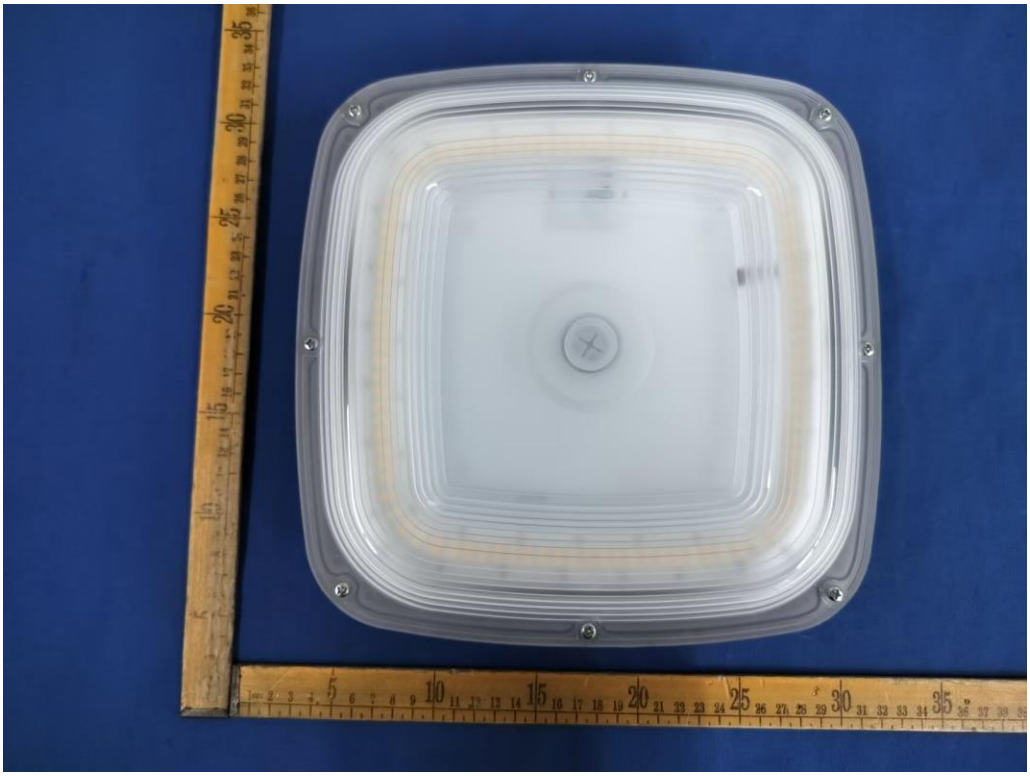
6.1. Photos of power line conducted emission test

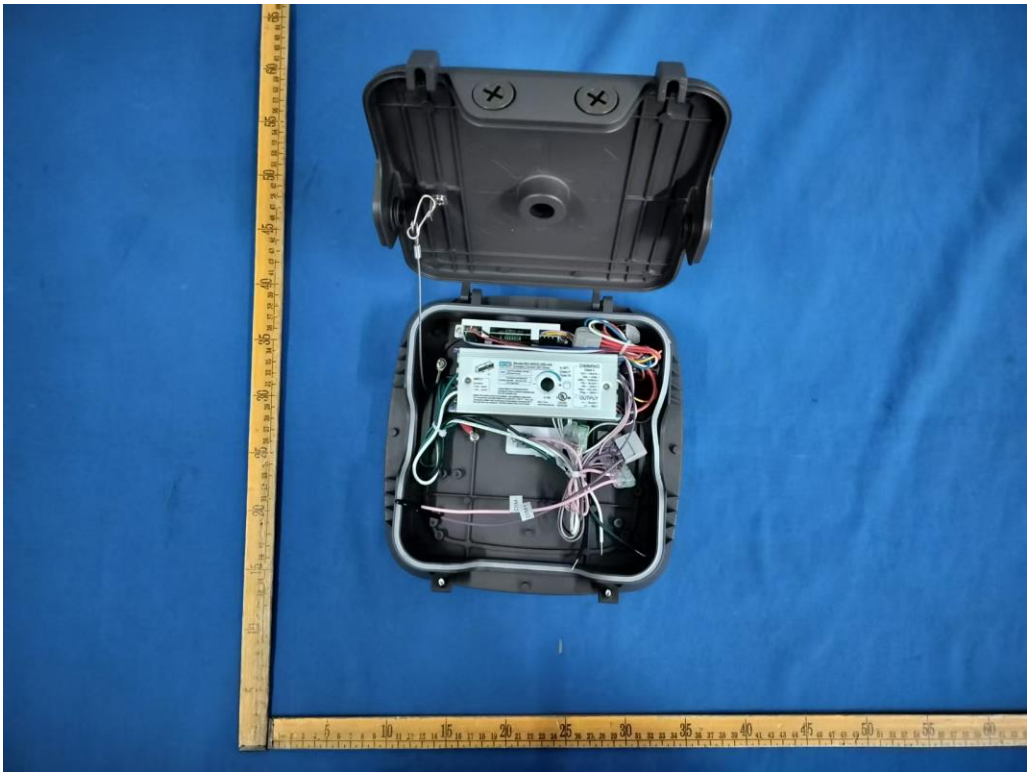
6.2. Photos of radiated emission test

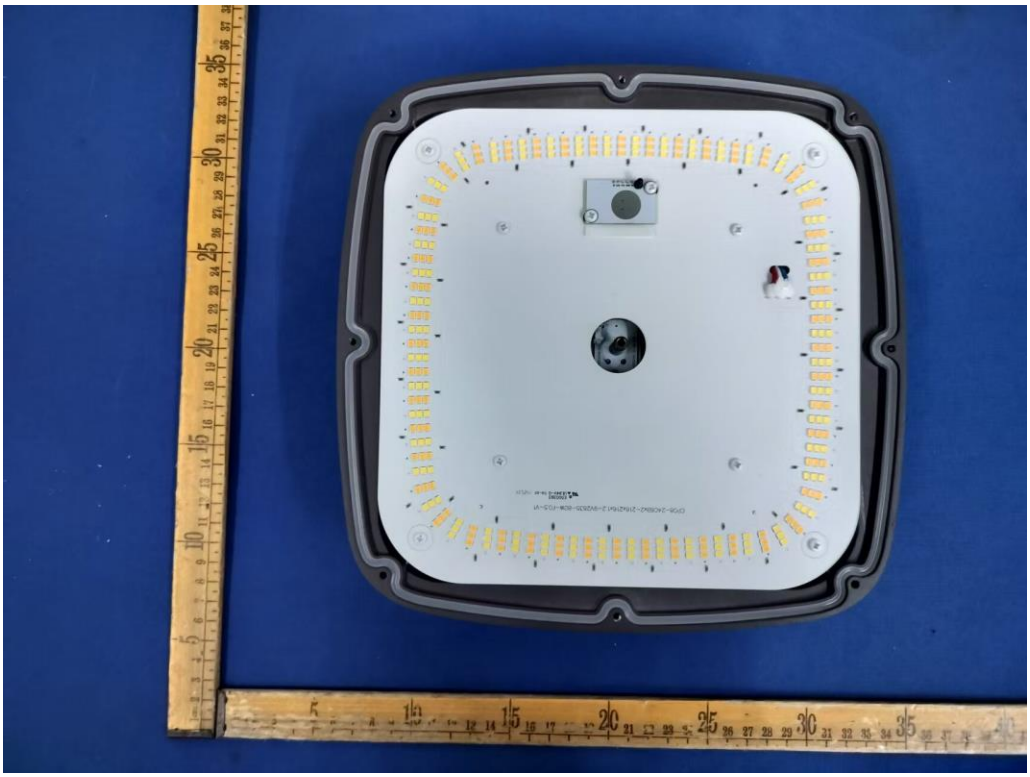
30MHz – 1GHz

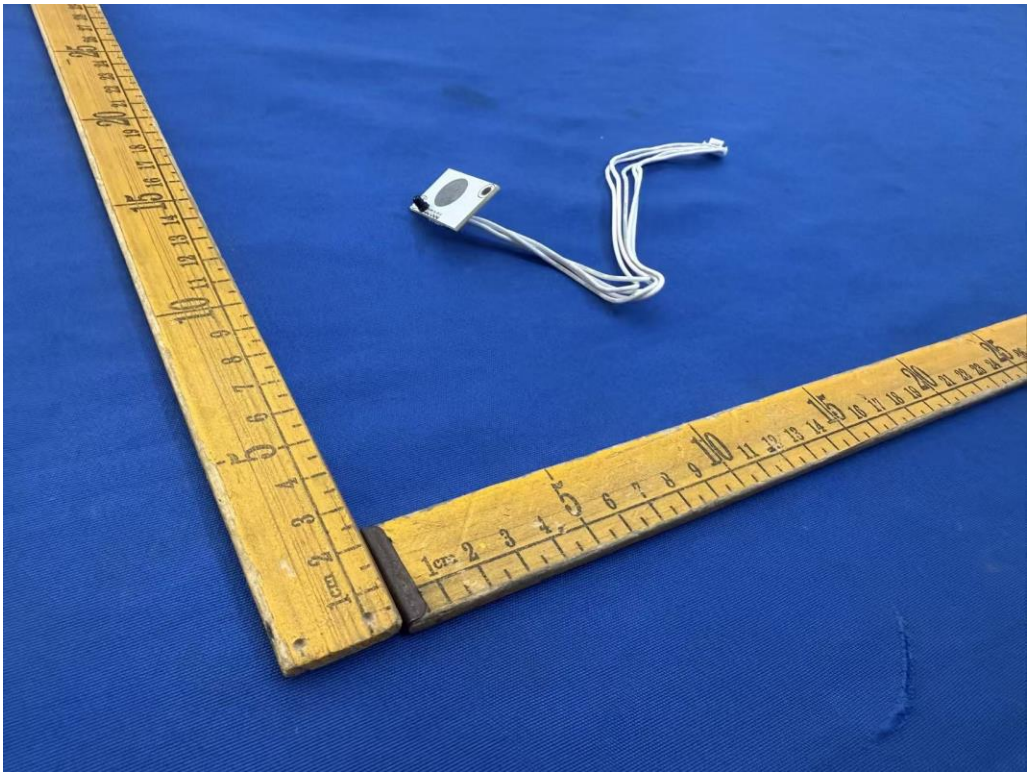


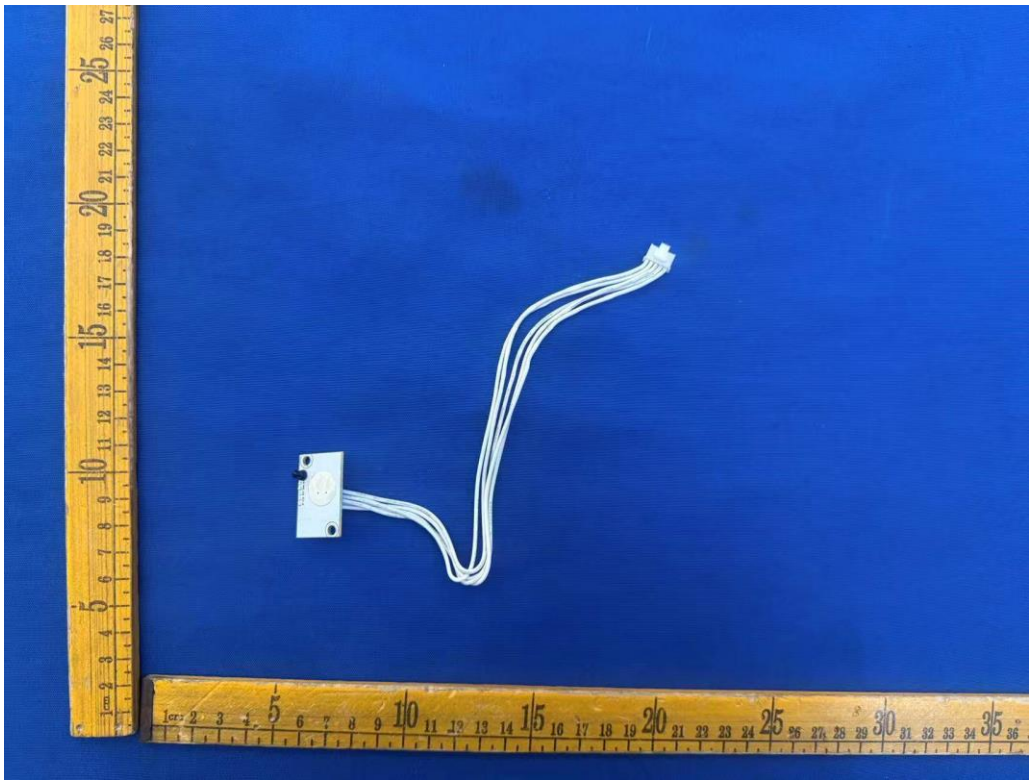
7. Photos of the EUT

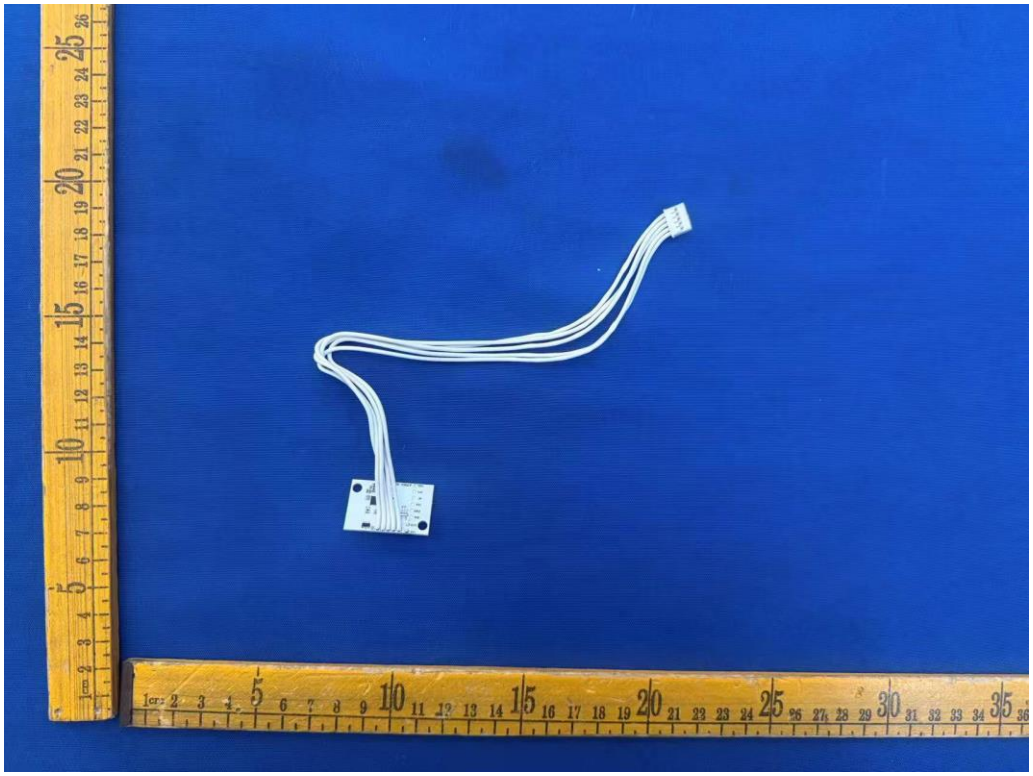


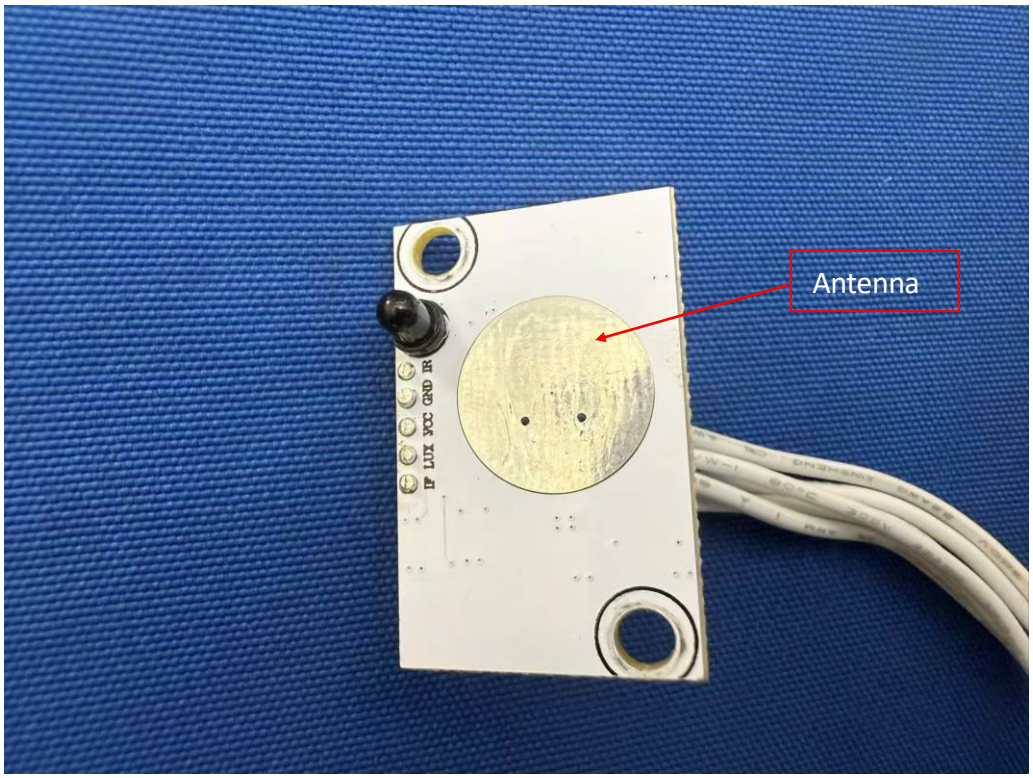


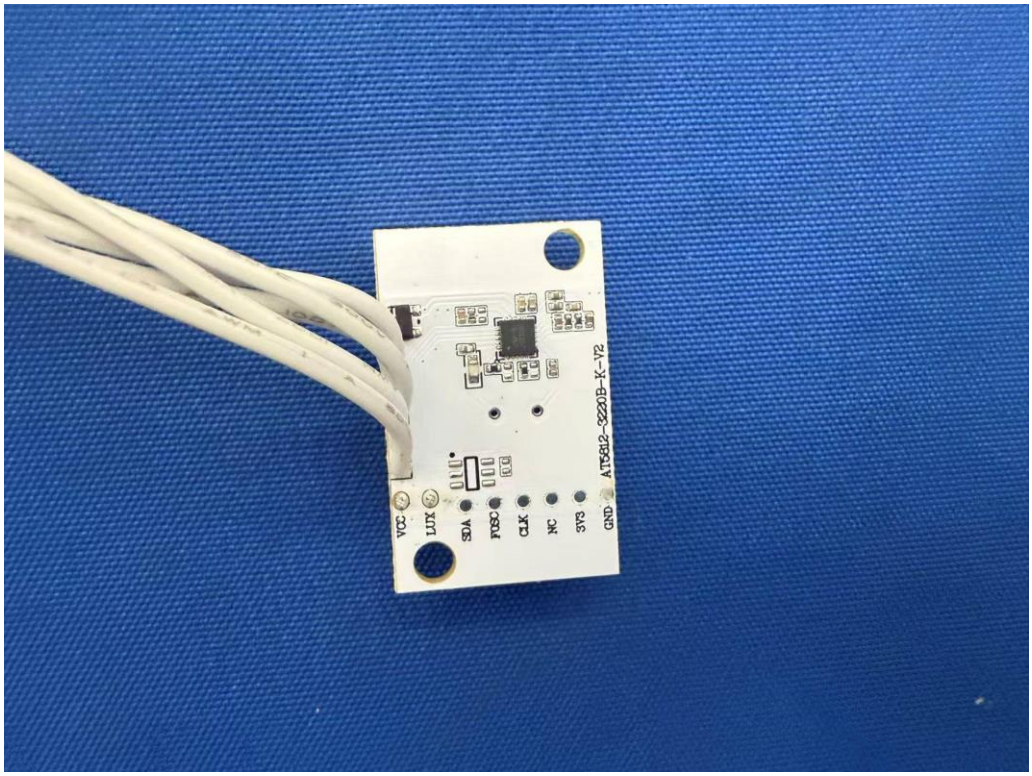









Antenna
IF LUX VCC GND IR



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