

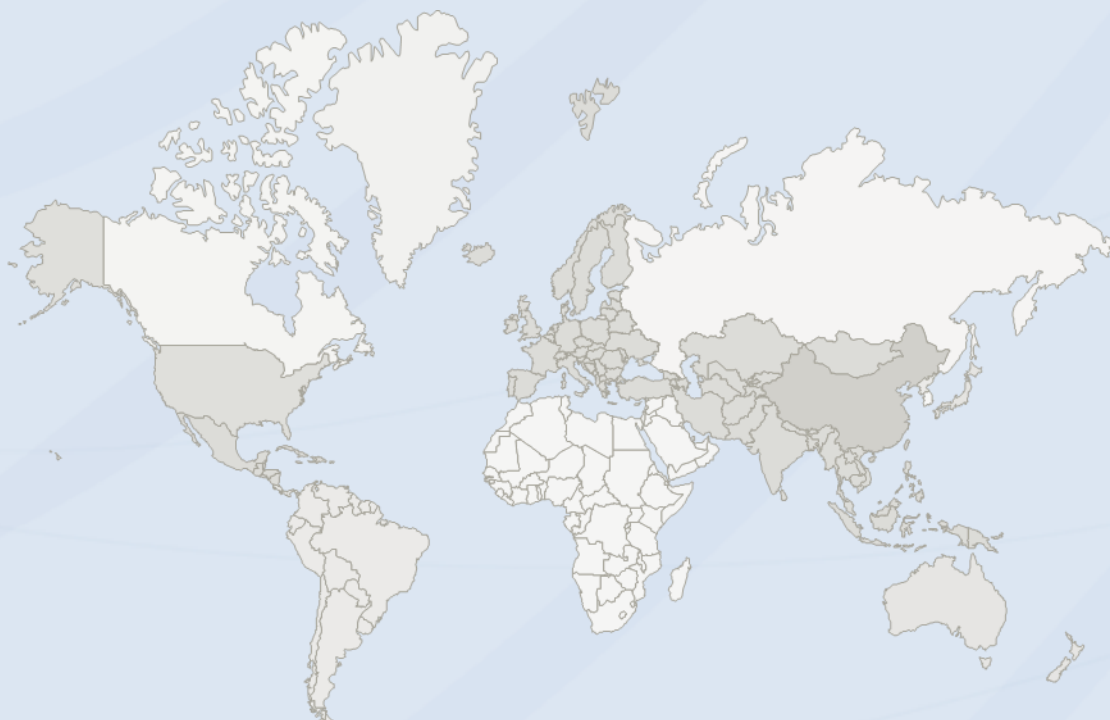
FCC TEST REPORT

Report No.: NTC-ER2412030

Applicant's name.....: Dongguan Haiyue Intelligent Technology Co., LTD

Room1305, Building1, Songhu Zhigu Industrial

Address.....: Building, No 9 Liaobu South Yanhe Road, Liaobu
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TABLE OF CONTENTS

Test Report Declare	3
1. Summary of test results.....	3
2. General test information.....	3
2.1. Description of EUT	3
2.2. Detail models	3
2.3. Support Equipment.....	4
2.4. Block diagram EUT configuration for test.....	4
2.5. Test environment conditions.....	4
2.6. Measurement uncertainty	4
3. Power Line Conducted Emission Test	5
3.1. Test equipment.....	5
3.2. Block diagram of test setup.....	5
3.3. Power Line Conducted Emission Limits (Class B).....	5
3.4. Test Procedure.....	6
3.5. Test Result.....	6
4. Radiated emission test	9
4.1. Test equipment.....	9
4.2. Block diagram of test setup.....	10
4.3. Limit	12
4.4. Test Procedure.....	13
4.5. Test result.....	13
5. -20dB Bandwidth	18
5.1. Test equipment.....	18
5.2. Block diagram of test setup.....	18
5.3. Limit	18
5.4. Test Procedure.....	18
5.5. Test result.....	19
6. Test setup photograph.....	20
6.1. Photos of power line conducted emission test.....	20
6.2. Photos of radiated emission test	20
7. Photos of the EUT	22

TEST REPORT DECLARE

FCC ID	:	2BBZW-MH5
Applicant	:	Dongguan Haiyue Intelligent Technology Co., LTD
Address	:	Room1305, Building1, Songhu Zhigu Industrial Building, No 9 Liaobu South Yanhe Road, Liaobu Town, Dongguan City. Guangdong Province, China
Equipment under Test	:	Lighting Control Switch Motion Sensor
Model No	:	HD09VR-MH5 · HD09VR-MH5-1
Trade Mark	:	
Manufacturer	:	Dongguan Haiyue Intelligent Technology Co., LTD
Address	:	Room1305, Building1, Songhu Zhigu Industrial Building, No 9 Liaobu South Yanhe Road, Liaobu Town, Dongguan City. Guangdong Province, China
Test Laboratory	:	Dongguan New Testing Centre Co., Ltd.
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 C63.10:2013.

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-ER2412030		
Date of Test:	Dec.13, 2024 to Dec.23,2024	Date of Report:	Dec.30,2024

Prepared By:

Taylor Chen

Taylor Chen /Engineer

Approved By:



Dave Gou / AB 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	:	Lighting Control Switch Motion Sensor
Test model	:	HD09VR-MH5
EUT function description	:	Please reference user manual of this device
Power supply	:	DC12-24V
Trade mark	:	
Operation frequency	:	5865MHz
Antenna Type	:	Patch antenna
Antenna Gain	:	-0.685dBi

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

2.2. Detail modelsElena

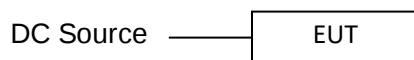
Model	Rating	Note
HD09VR-MH5	DC 12-24V	
HD09VR-MH5-1	DC 12-24V	

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:	21-24°C
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%

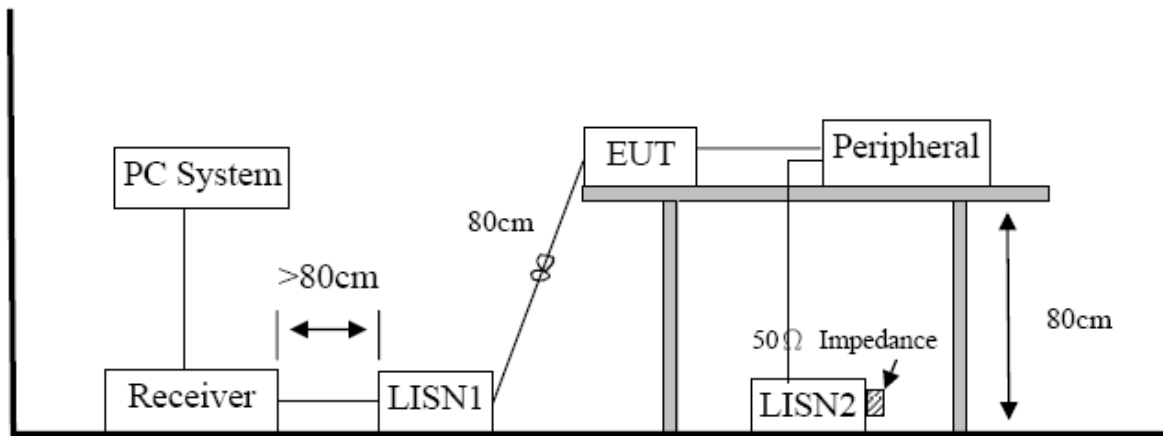
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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	2024-05-14	1 Year
2	LISN	R&S	KH3765	37650053	2024-05-14	1 Year
3	Pulse Limiter	R&S	ENY81-CA6	101862	2024-05-14	1 Year
4	RF Cable	HUBER	SUCOFLEX100	30722/4E	2024-05-14	1 Year
5	MEASUREME NT 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.

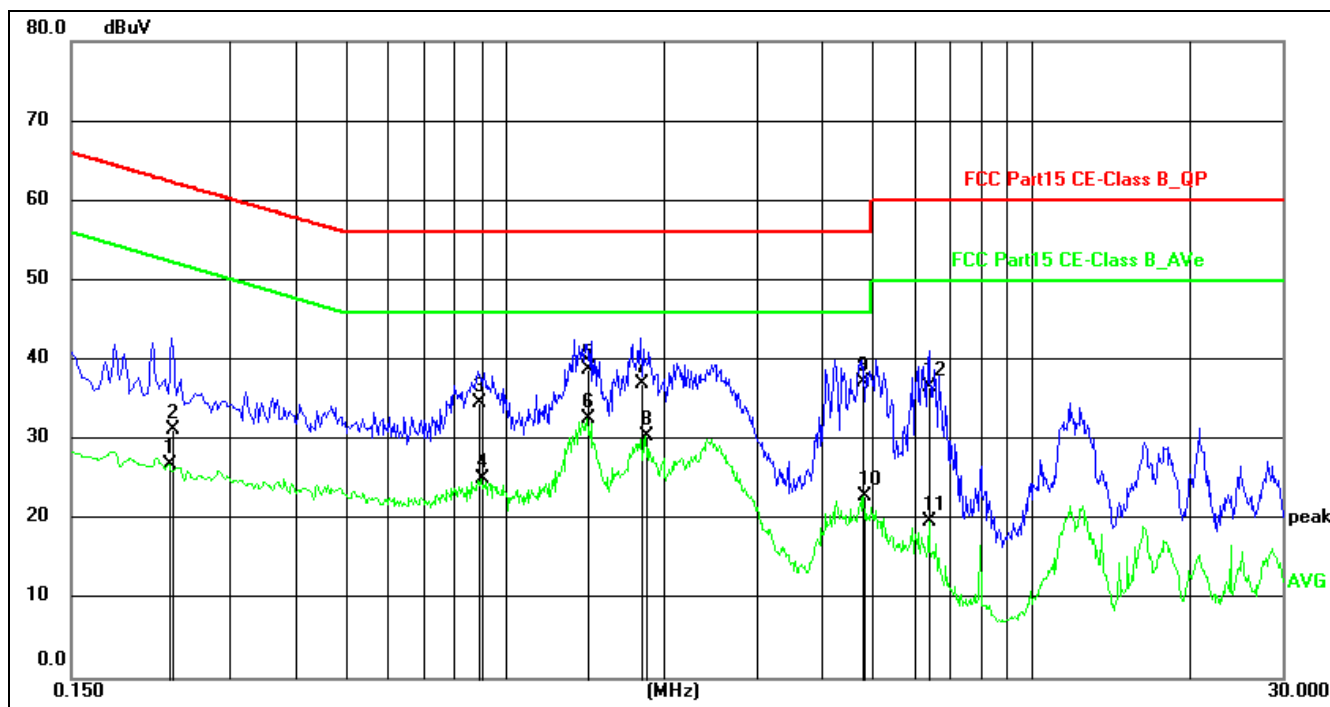
3.5. Test Result

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

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

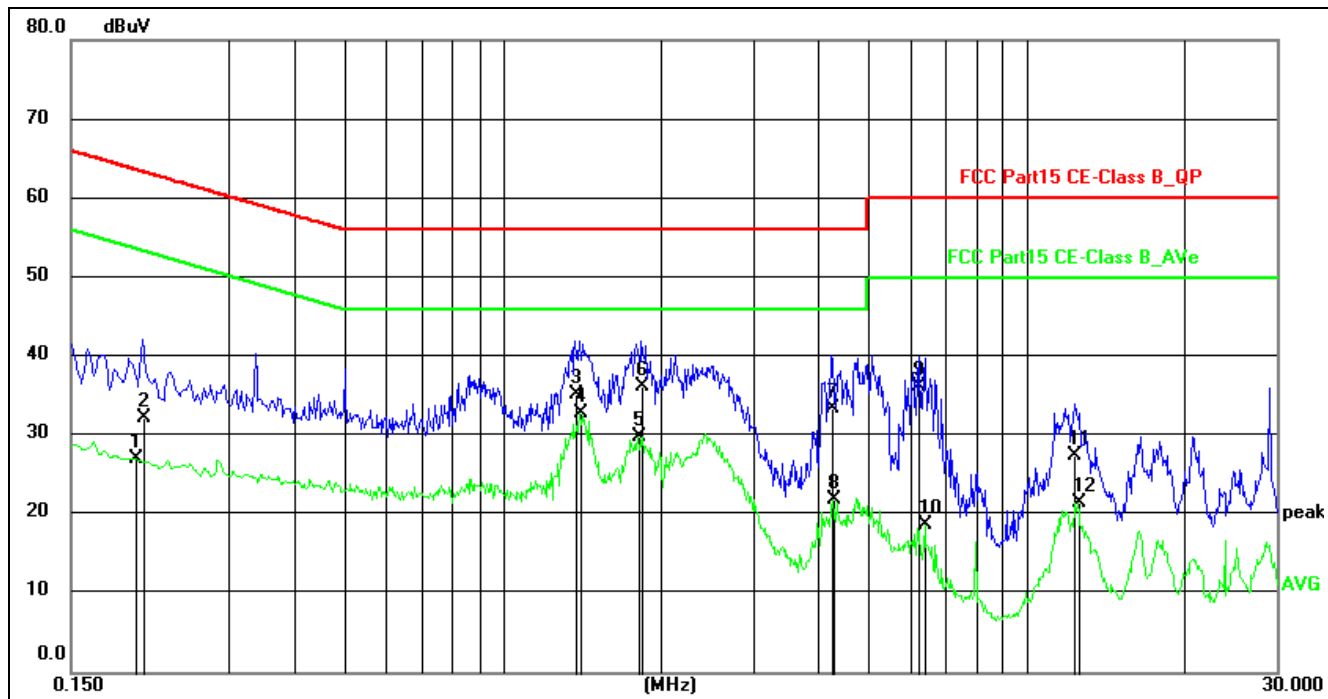
Note3: Measurement = Reading Level + Factor, Margin= Measurement-Limit

Conducted Emission Test Result



Site:	844LAB	Phase:L1	Temperature(C):24(C)
Limit:	FCC Part15 CE-Class B_QP		Humidity(%):63%
EUT:	Lighting Control Switch Motion Sensor	Test Time:	2025/1/20 18:28:41
M/N.:	HD09VR-MH5	Power Rating:	AC277V/60Hz
Mode:	Working	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.2300	17.54	9.36	26.90	52.45	-25.55	AVG	
2	0.2340	21.87	9.36	31.23	62.31	-31.08	QP	
3	0.8940	25.20	9.41	34.61	56.00	-21.39	QP	
4	0.9020	15.61	9.41	25.02	46.00	-20.98	AVG	
5	1.4340	29.34	9.44	38.78	56.00	-17.22	QP	
6 *	1.4340	23.14	9.44	32.58	46.00	-13.42	AVG	
7	1.8180	27.62	9.46	37.08	56.00	-18.92	QP	
8	1.8540	20.99	9.46	30.45	46.00	-15.55	AVG	
9	4.7819	27.59	9.57	37.16	56.00	-18.84	QP	
10	4.8179	13.28	9.57	22.85	46.00	-23.15	AVG	
11	6.4059	10.12	9.54	19.66	50.00	-30.34	AVG	
12	6.4060	27.03	9.54	36.57	60.00	-23.43	QP	



Site:	844LAB	Phase:	N	Temperature(C):	24(C)
Limit:	FCC Part15 CE-Class B_QP	Test Time:	2025/1/20 18:32:00		
EUT:	Lighting Control Switch Motion Sensor	Power Rating:	AC277V/60Hz		
M/N.:	HD09VR-MH5	Test Engineer:			
Mode:	Working				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1996	17.40	9.66	27.06	53.63	-26.57	AVG	
2	0.2060	22.57	9.67	32.24	63.37	-31.13	QP	
3	1.3779	25.54	9.71	35.25	56.00	-20.75	QP	
4 *	1.4100	23.05	9.71	32.76	46.00	-13.24	AVG	
5	1.8140	20.15	9.73	29.88	46.00	-16.12	AVG	
6	1.8420	26.53	9.73	36.26	56.00	-19.74	QP	
7	4.2660	23.59	9.82	33.41	56.00	-22.59	QP	
8	4.2700	12.18	9.82	22.00	46.00	-24.00	AVG	
9	6.2220	26.32	9.84	36.16	60.00	-23.84	QP	
10	6.4139	8.96	9.83	18.79	50.00	-31.21	AVG	
11	12.3820	18.34	9.19	27.53	60.00	-32.47	QP	
12	12.5379	12.38	9.19	21.57	50.00	-28.43	AVG	

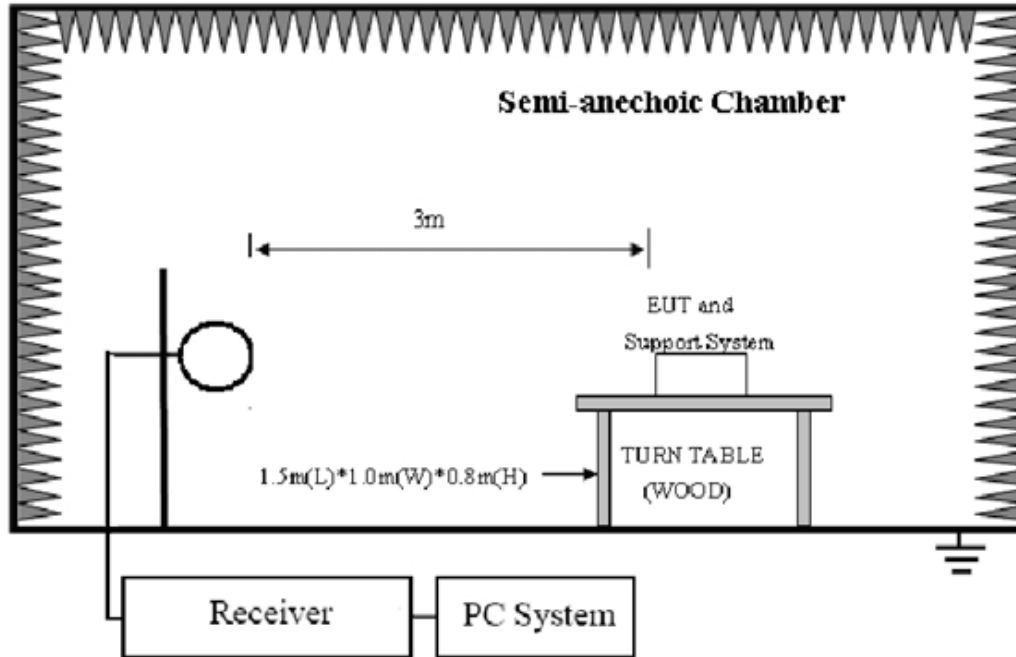
4. Radiated emission test

4.1. Test equipment

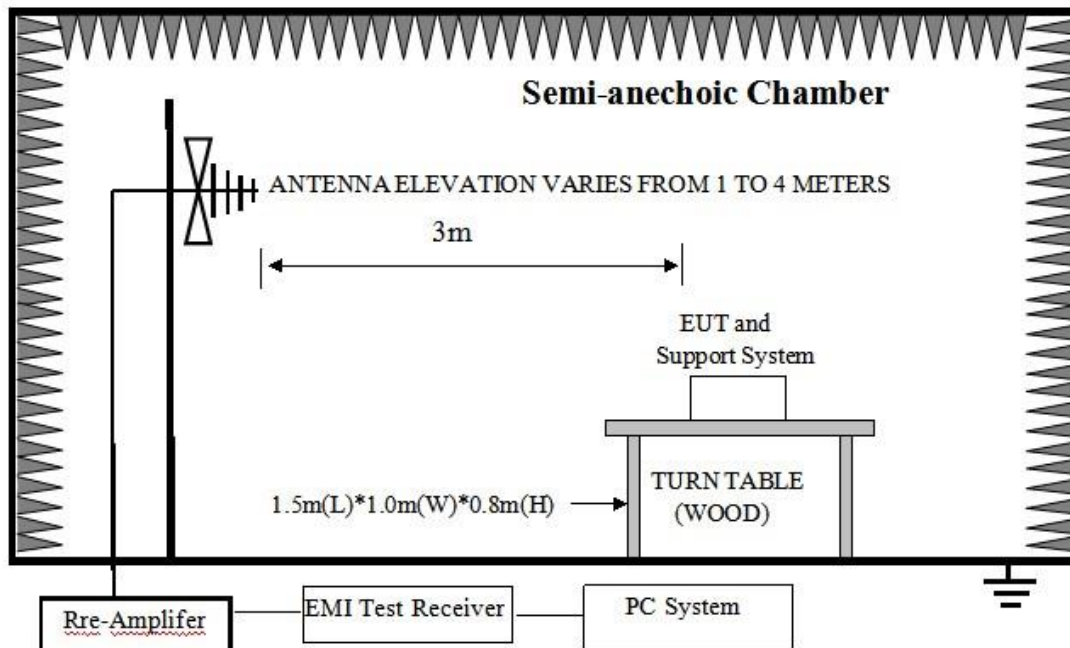
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESCI	101699	2024-05-14	1Year
2	EMI Test Receiver	R&S	FSP40	101289	2024-05-14	1Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9168	00969	2023-05-19	2 Year
4	Pre-amplifier	R&S	8447F	3113A04553	2024-05-14	1Year
5	Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	2023-05-19	2Year
6	Horn antenna	Schwarzbeck	BBHA9120D	453	2023-05-19	2Year
7	Double Ridged Horn Antenna	A.H. System	SAS-574	584	2023-05-19	2Year
8	Pre-amplifier	R&S	SCU18	105326	2024-05-14	1Year
9	RF Cable	GORE	OSQ01Q01078.7	SN15458473	2024-05-14	1Year
10	RF Cable	GORE	OSQ01Q01078.7	SN15458474	2024-05-14	1Year
11	RF Cable	ESCO	ETS-LINGR EN	RFC-SMS-100-SMS-340-IN	2024-05-14	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

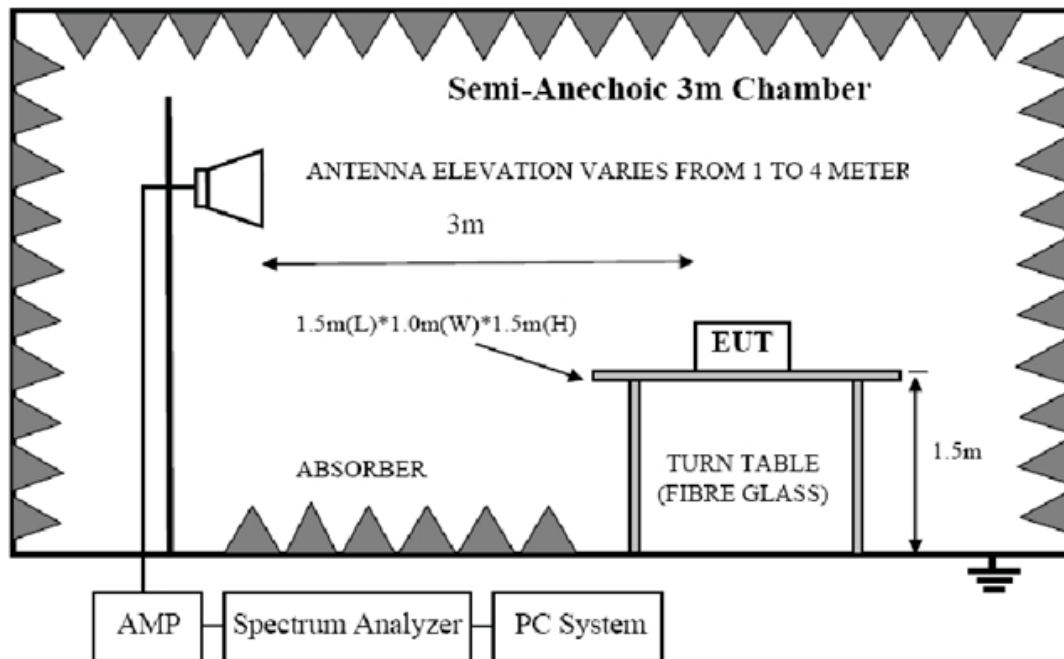
In 3m Anechoic Chamber Test Setup Diagram for 9KHz to 30MHz:



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 than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

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

(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.

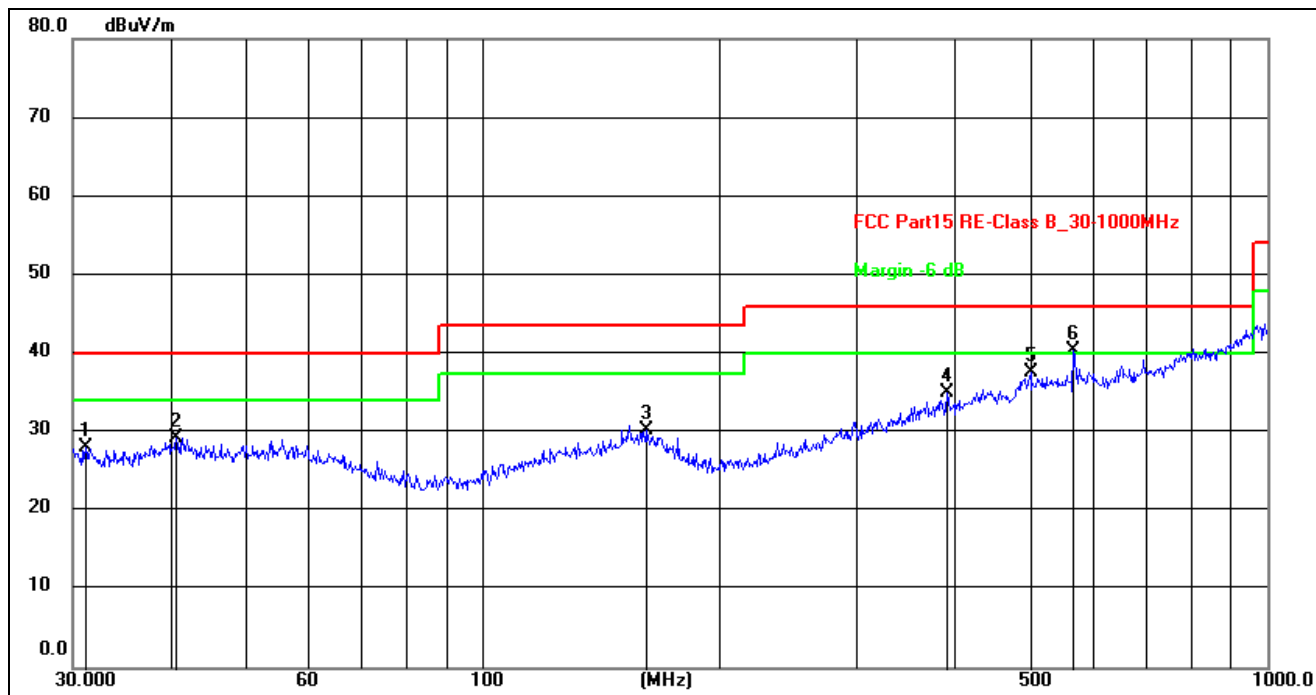
4.5. Test result

PASS. (See below detailed test result)

9K-30MHz: Emission detected are more than 20dB below the limit line.

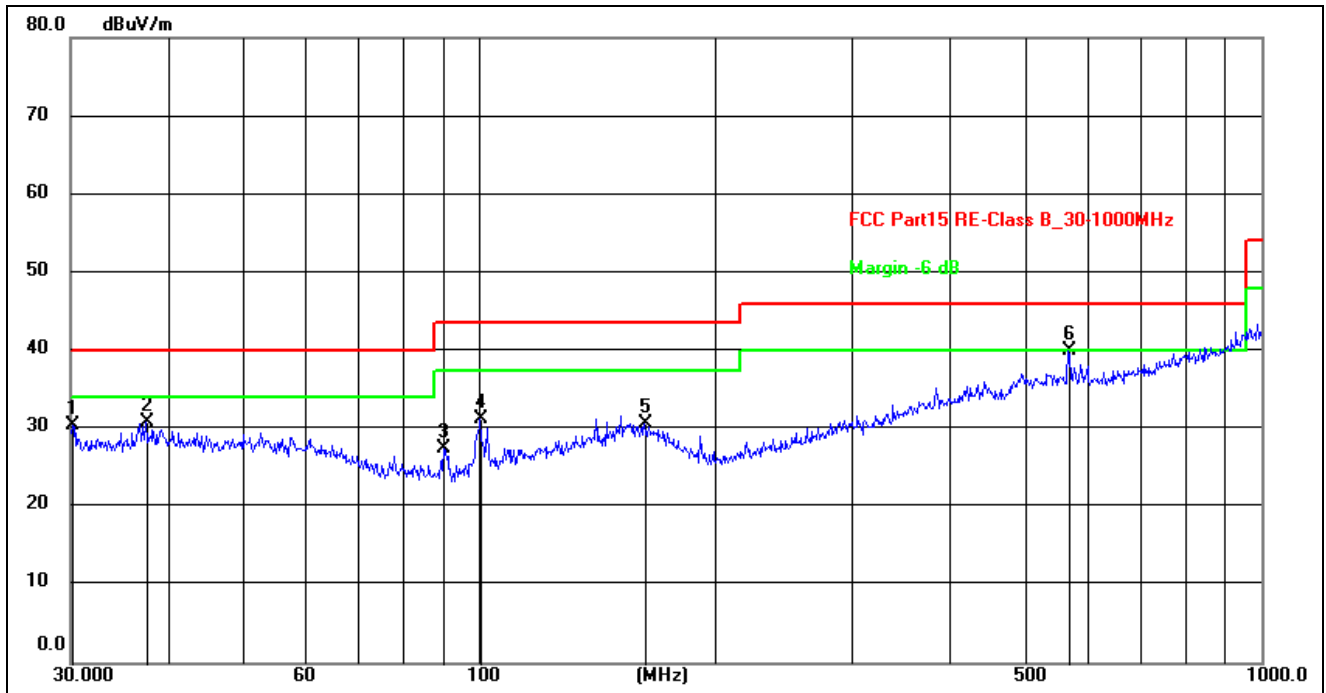
18~40GHz at least have 20dB margin. No recording in the test report.

Radiated Emission Test Result



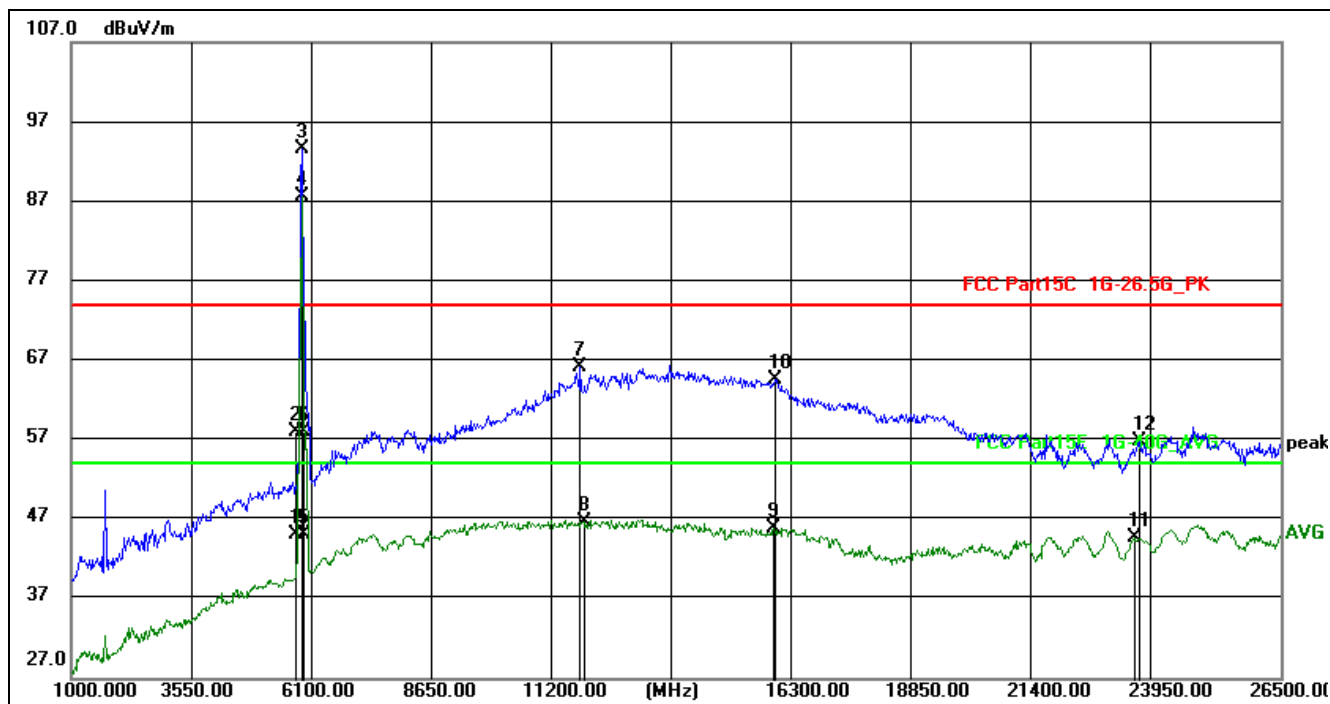
Site:	966LAB	Antenna::Horizontal	Temperature(C):24(C)
Limit:	FCC Part15 RE-Class B_30-1000MHz		Humidity(%):60%
EUT:	Lighting Control Switch Motion Sensor	Test Time:	2024/12/12 14:58:16
M/N.:	HD09VR-MH5	Power Rating:	DC 12V
Mode:	Working	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	31.1797	14.87	13.27	28.14	40.00	-11.86	peak	200	355	
2	40.7016	15.09	14.22	29.31	40.00	-10.69	peak	100	67	
3	161.4740	15.35	14.84	30.19	43.50	-13.31	peak	100	64	
4	390.7225	18.68	16.32	35.00	46.00	-11.00	peak	200	355	
5	499.4246	18.87	18.71	37.58	46.00	-8.42	peak	100	245	
6 *	566.6221	20.08	20.31	40.39	46.00	-5.61	peak	200	170	



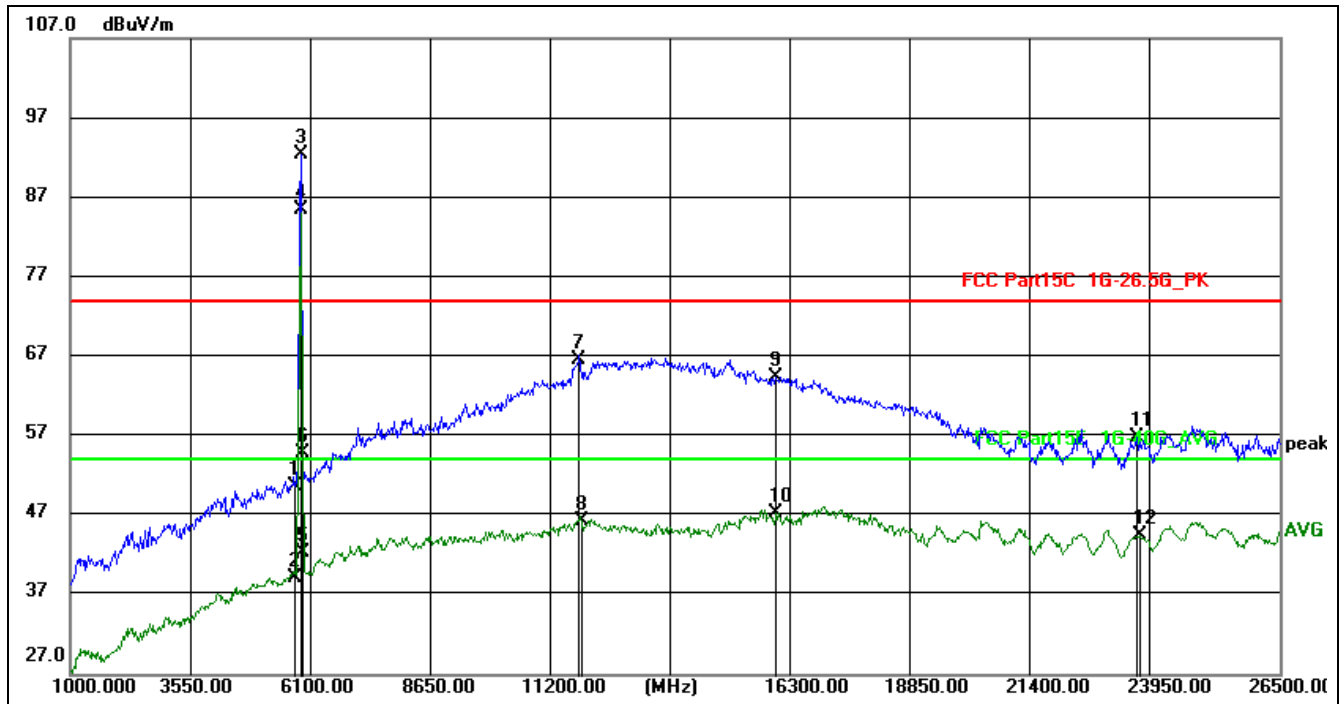
Site:	966LAB	Antenna::Vertical	Temperature(C):24(C)
Limit:	FCC Part15 RE-Class B_30-1000MHz		Humidity(%):60%
EUT:	Lighting Control Switch Motion Sensor	Test Time:	2024/12/12 15:00:53
M/N.:	HD09VR-MH5	Power Rating:	DC 12V
Mode:	Lighting	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.2111	16.58	13.94	30.52	40.00	-9.48	peak	100	355	
2	37.4165	16.38	14.47	30.85	40.00	-9.15	peak	200	116	
3	89.9047	16.91	10.49	27.40	43.50	-16.10	peak	200	240	
4	100.2286	20.07	11.27	31.34	43.50	-12.16	peak	100	311	
5	162.6106	15.43	15.22	30.65	43.50	-12.85	peak	100	227	
6 *	566.6223	19.91	20.15	40.06	46.00	-5.94	peak	100	344	



Site:	966LAB	Antenna::Horizontal	Temperature(C):24(C)
Limit:	FCC Part15C 1G-26.5G_PK		Humidity(%):60%
EUT:	Lighting Control Switch Motion Sensor	Test Time:	2025/1/20 10:16:04
M/N.:	HD09VR-MH5	Power Rating:	DC 24V
Mode:	Working	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	5725.000	49.57	-4.41	45.16	54.00	-8.84	AVG	100	292	
2	5725.500	62.45	-4.40	58.05	74.00	-15.95	peak	200	222	
3	5865.500	97.23	-3.63	93.60	74.00	19.60	peak	100	226	
4 *	5865.500	91.20	-3.63	87.57	54.00	33.57	AVG	100	226	
5	5875.000	48.77	-3.61	45.16	54.00	-8.84	AVG	100	292	
6	5875.500	61.64	-3.59	58.05	74.00	-15.95	peak	200	222	
7	11735.500	59.20	7.03	66.23	74.00	-7.77	peak	200	250	
8	11812.000	39.65	7.12	46.77	54.00	-7.23	AVG	200	4	
9	15815.500	34.65	11.25	45.90	54.00	-8.10	AVG	200	213	
10	15841.000	53.22	11.30	64.52	74.00	-9.48	peak	200	291	
11	23440.000	63.27	-18.58	44.69	54.00	-9.31	AVG	200	28	
12	23516.500	75.44	-18.49	56.95	74.00	-17.05	peak	100	150	



Site:	966LAB	Antenna::Vertical	Temperature(C):24(C)
Limit:	FCC Part15C 1G-26.5G_PK		Humidity(%):60%
EUT:	Lighting Control Switch Motion Sensor	Test Time:	2025/1/20 10:19:55
M/N.:	HD09VR-MH5	Power Rating:	DC 24V
Mode:	Working	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	5725.000	55.08	-4.41	50.67	74.00	-23.33	peak	100	4	
2	5725.500	43.52	-4.40	39.12	54.00	-14.88	AVG	200	356	
3 X	5865.500	96.05	-3.63	92.42	74.00	18.42	peak	100	4	
4 *	5865.500	89.18	-3.63	85.55	54.00	31.55	AVG	100	4	
5	5875.000	46.00	-3.61	42.39	54.00	-11.61	AVG	200	167	
6	5875.500	58.45	-3.59	54.86	74.00	-19.14	peak	200	356	
7	11723.000	57.67	8.90	66.57	74.00	-7.43	peak	300	360	
8	11772.000	37.45	8.87	46.32	54.00	-7.68	AVG	200	270	
9	15866.500	53.02	11.34	64.36	74.00	-9.64	peak	300	246	
10	15892.000	36.02	11.39	47.41	54.00	-6.59	AVG	100	4	
11	23491.000	75.39	-18.53	56.86	74.00	-17.14	peak	100	72	
12	23542.000	63.07	-18.47	44.60	54.00	-9.40	AVG	300	63	

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

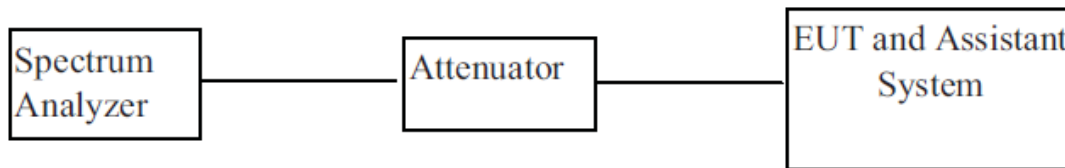
2. Antenna polarization: “H” means Horizontal , “V” means Vertical.

5. -20dB Bandwidth

5.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	R&S	ESR	7250-304067 528	2024-05-14	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

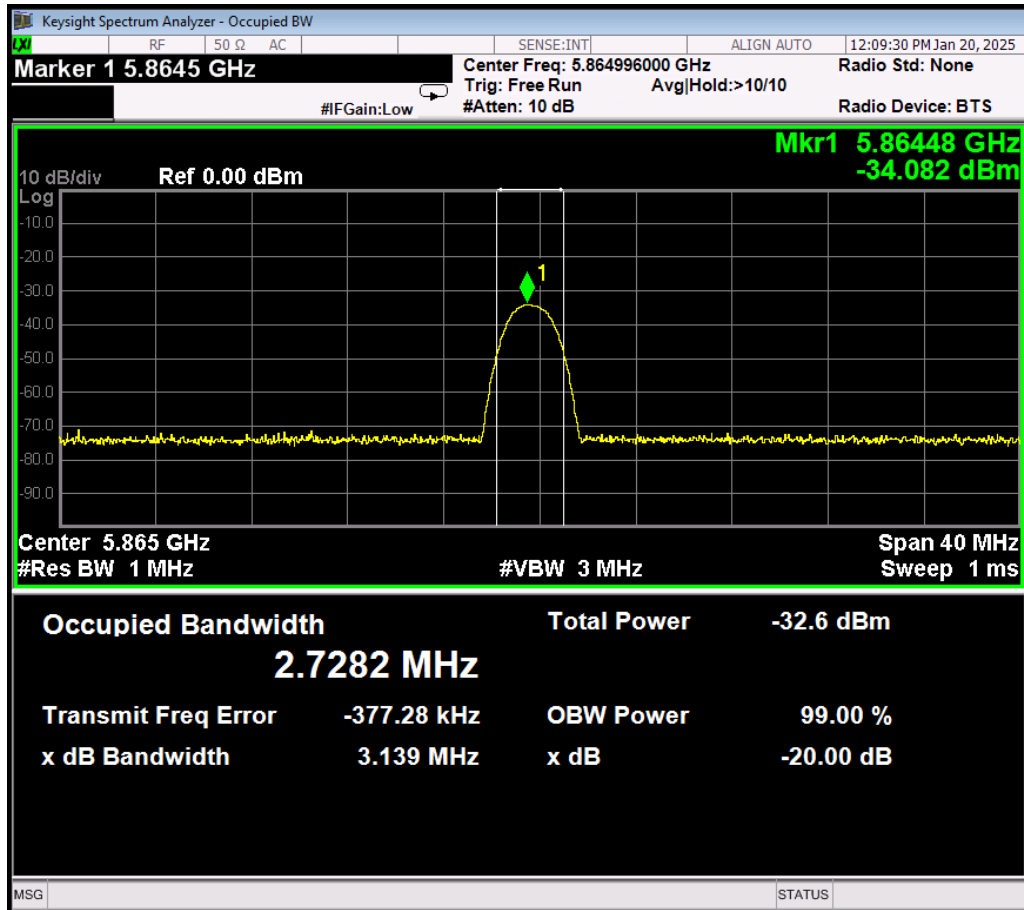
in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule 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	5865	Ant 1	2.7282	3.139	0.5%*5865=29.325	Pass

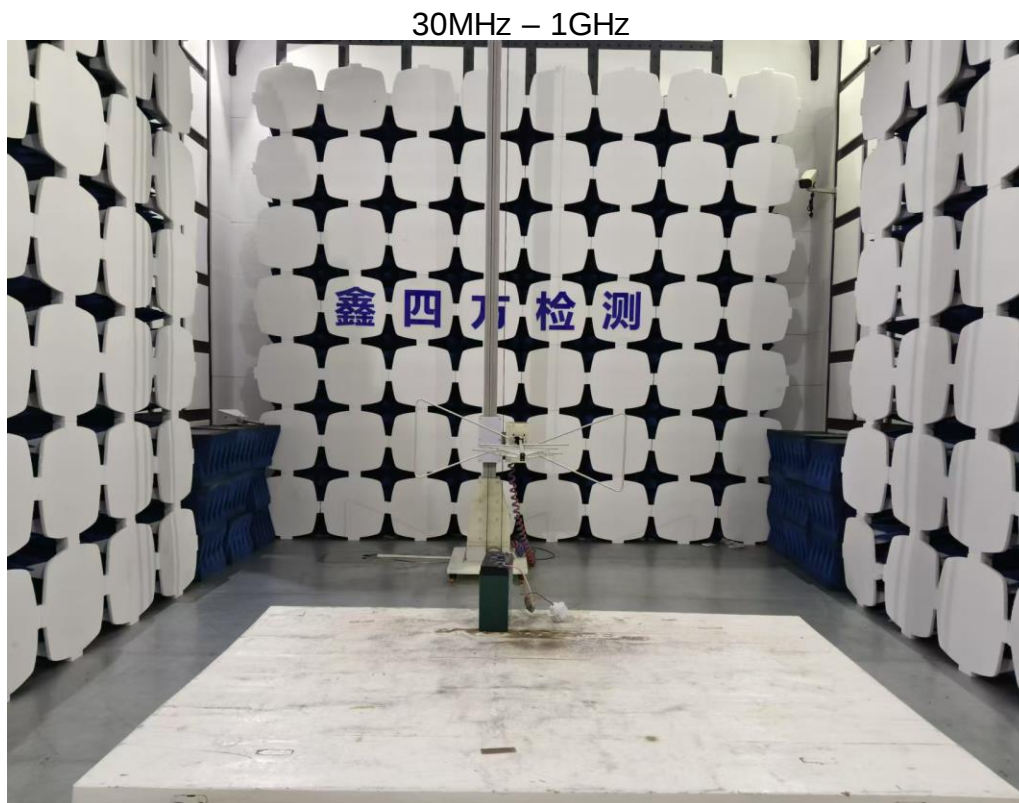


6. Test setup photograph

6.1. Photos of power line conducted emission test

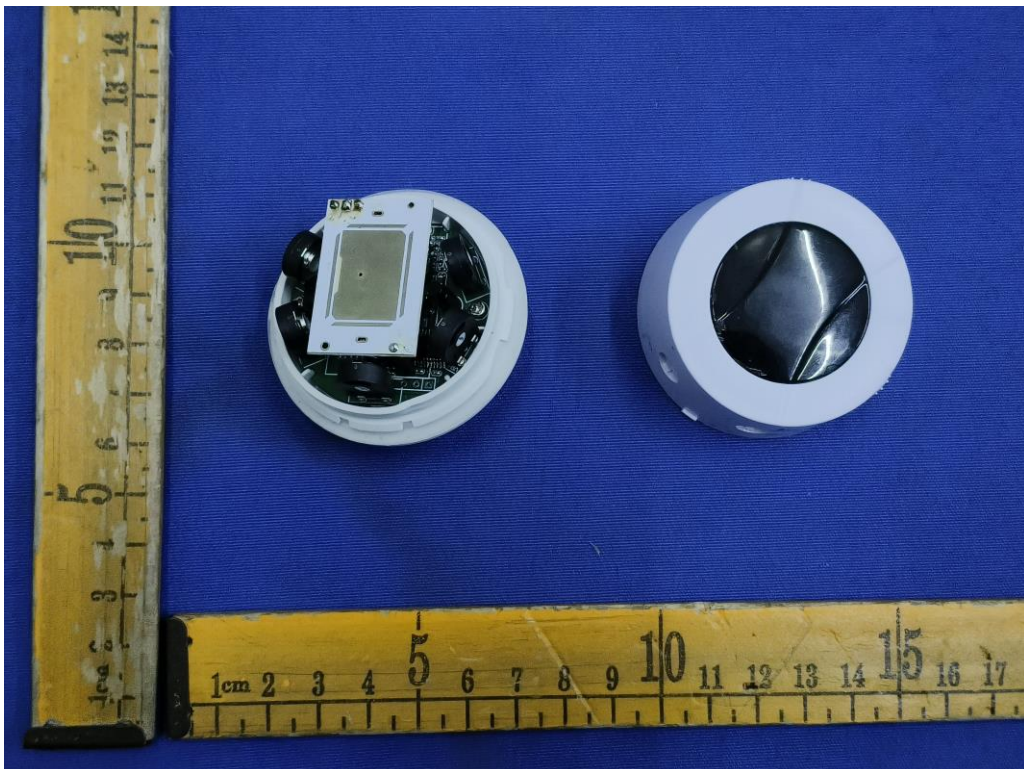
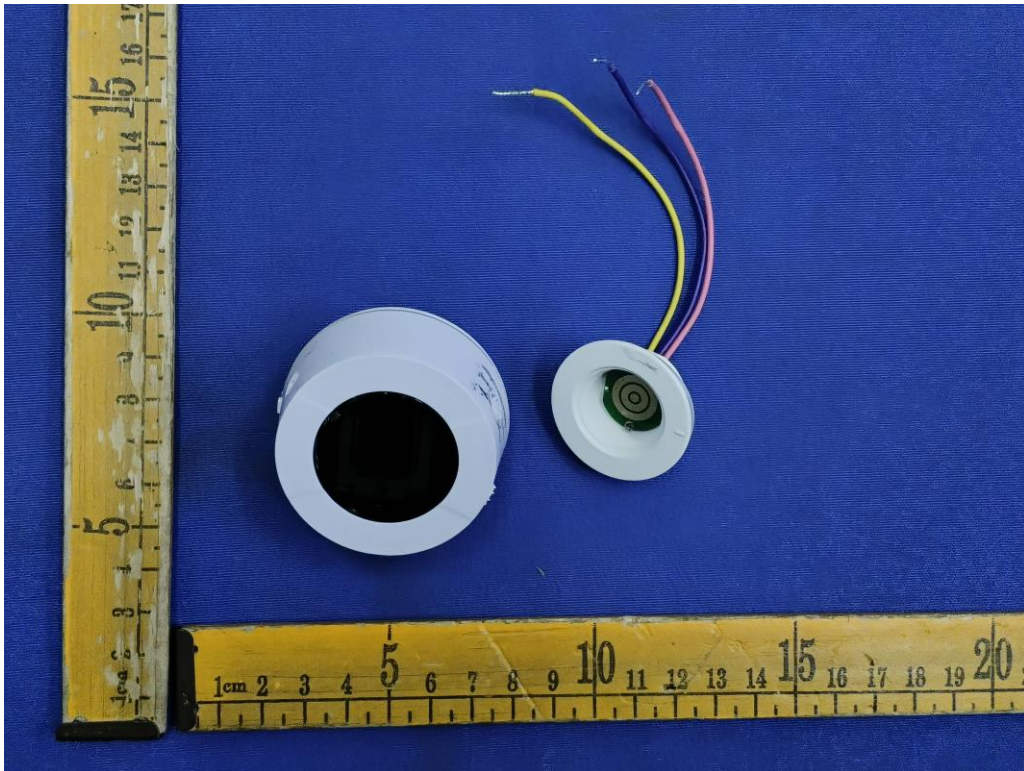


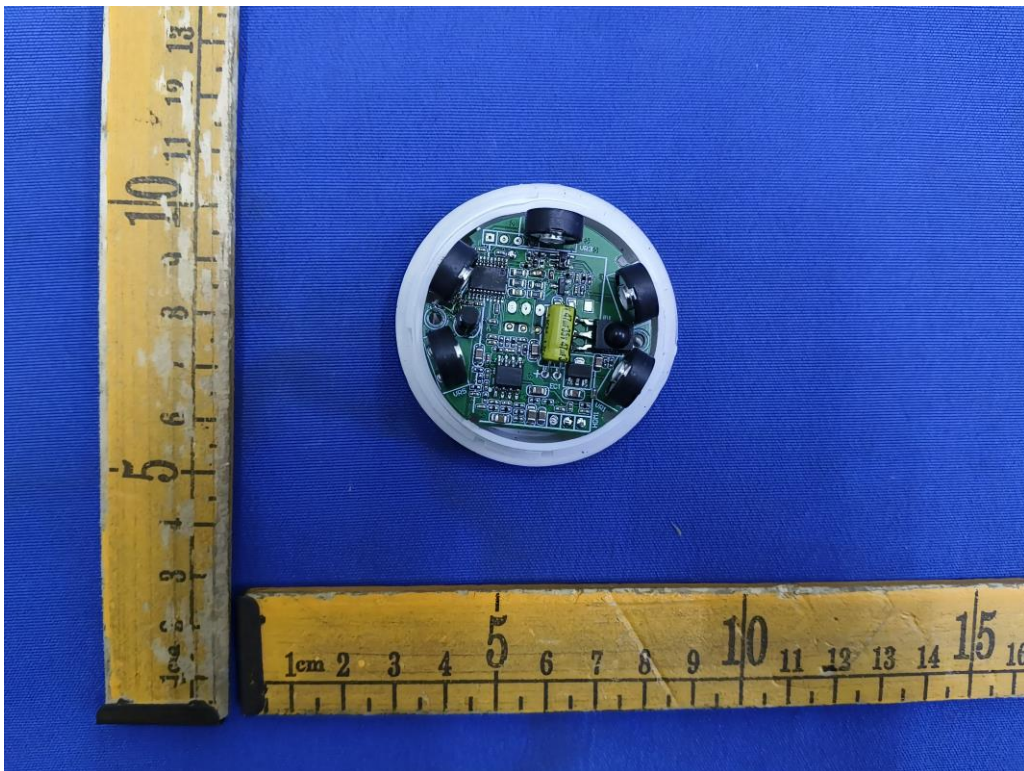
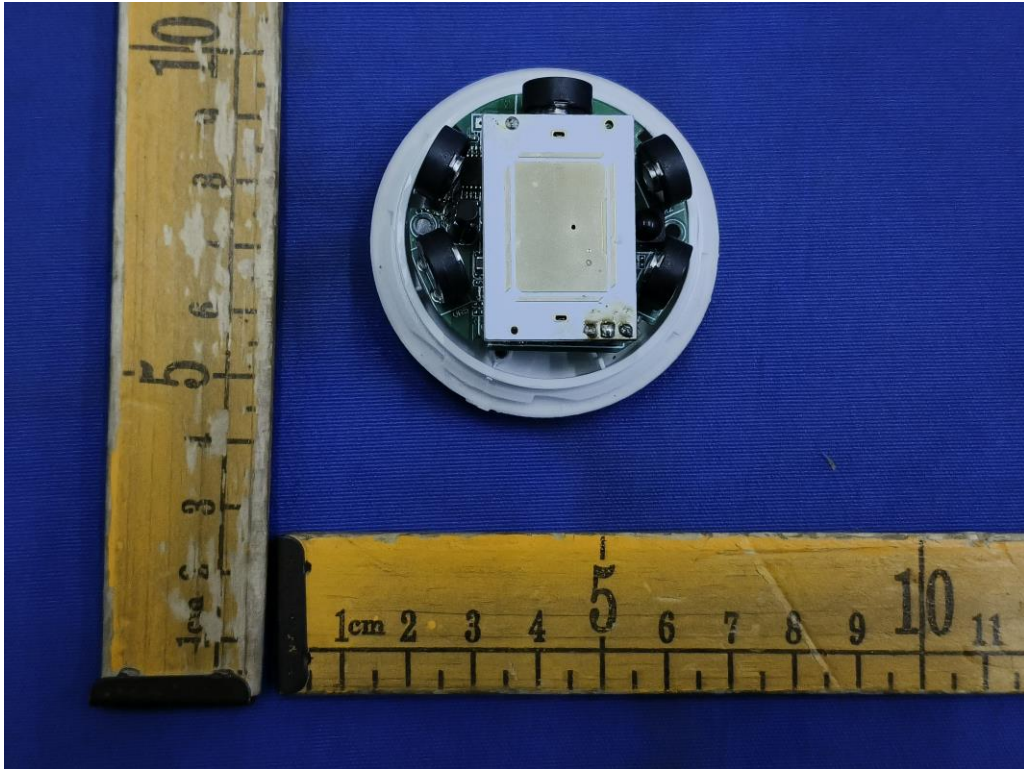
6.2. Photos of radiated emission test

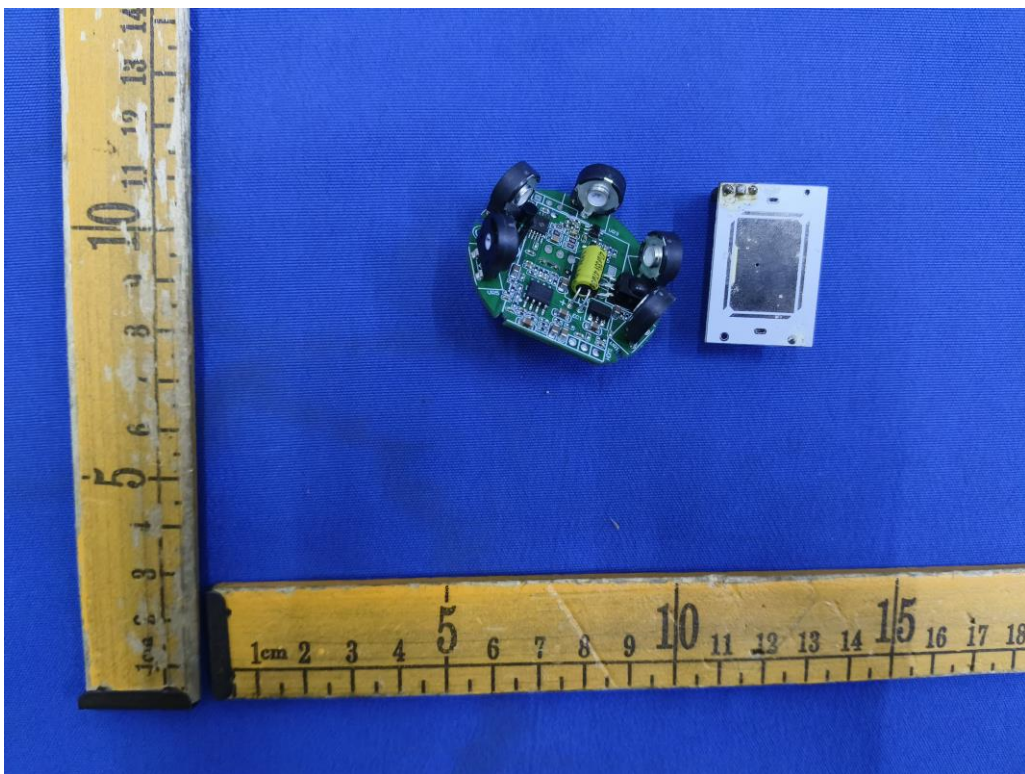
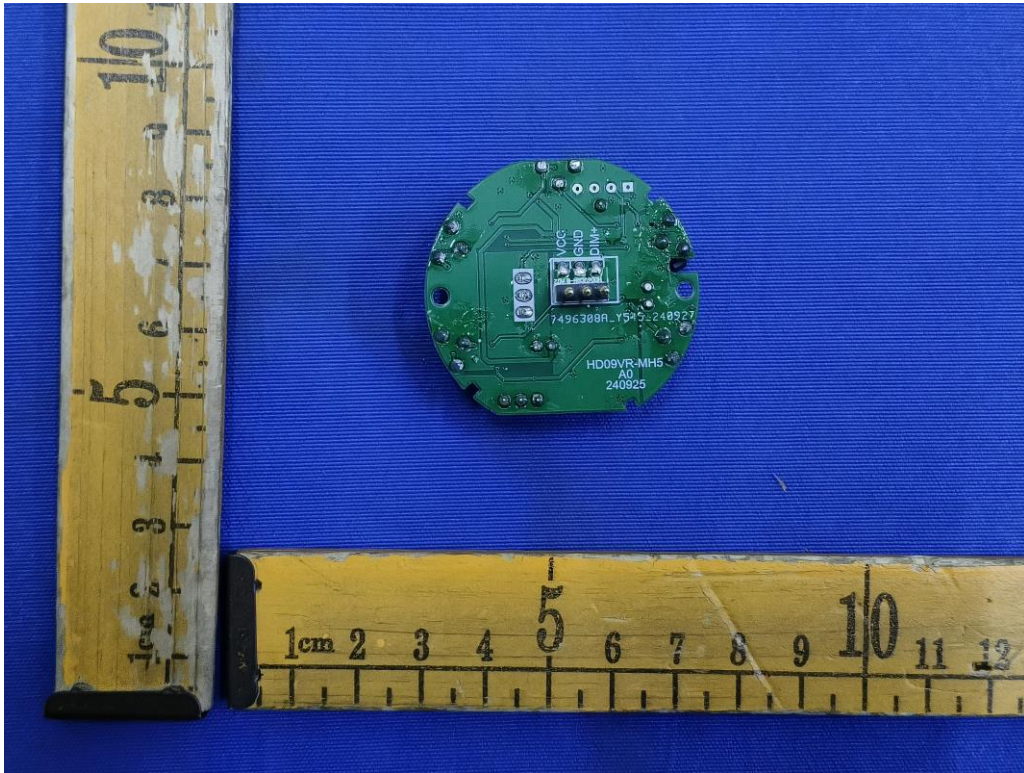


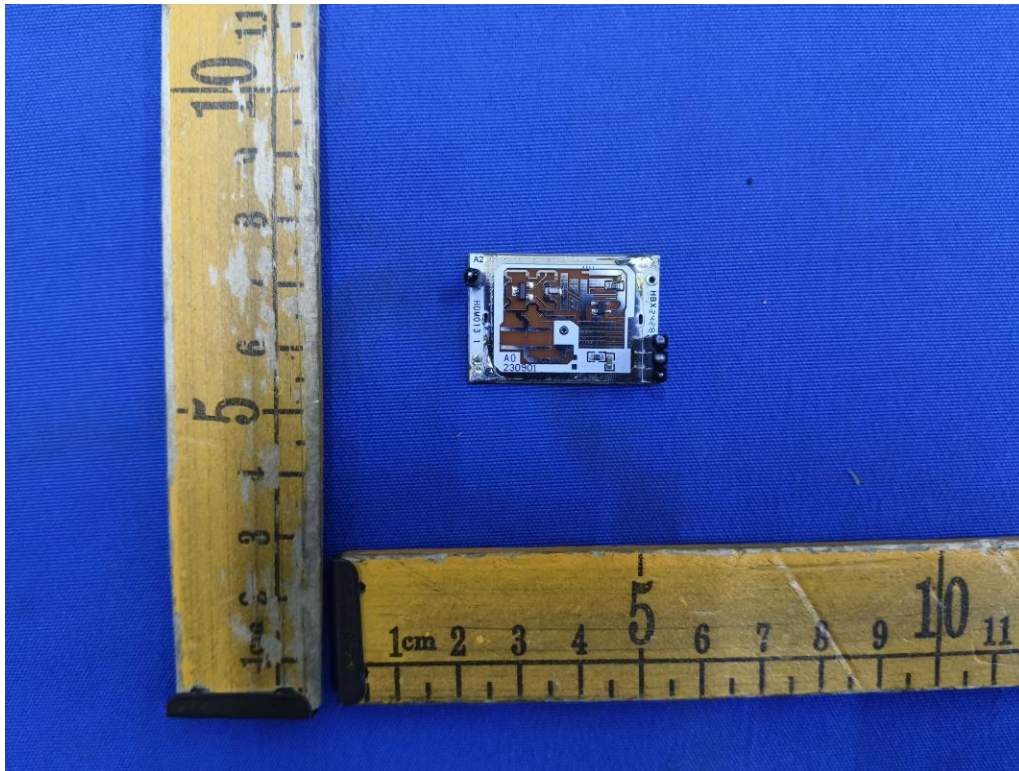
Above 1GHz

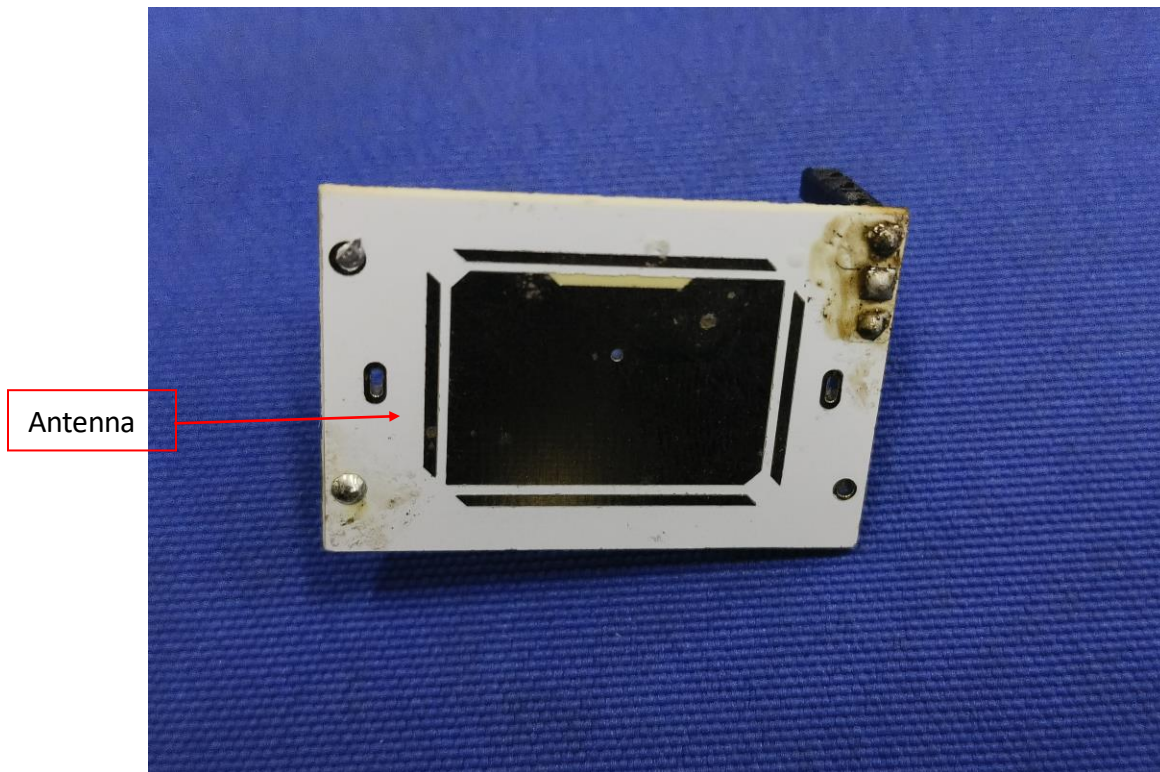












--END F REPORT--