

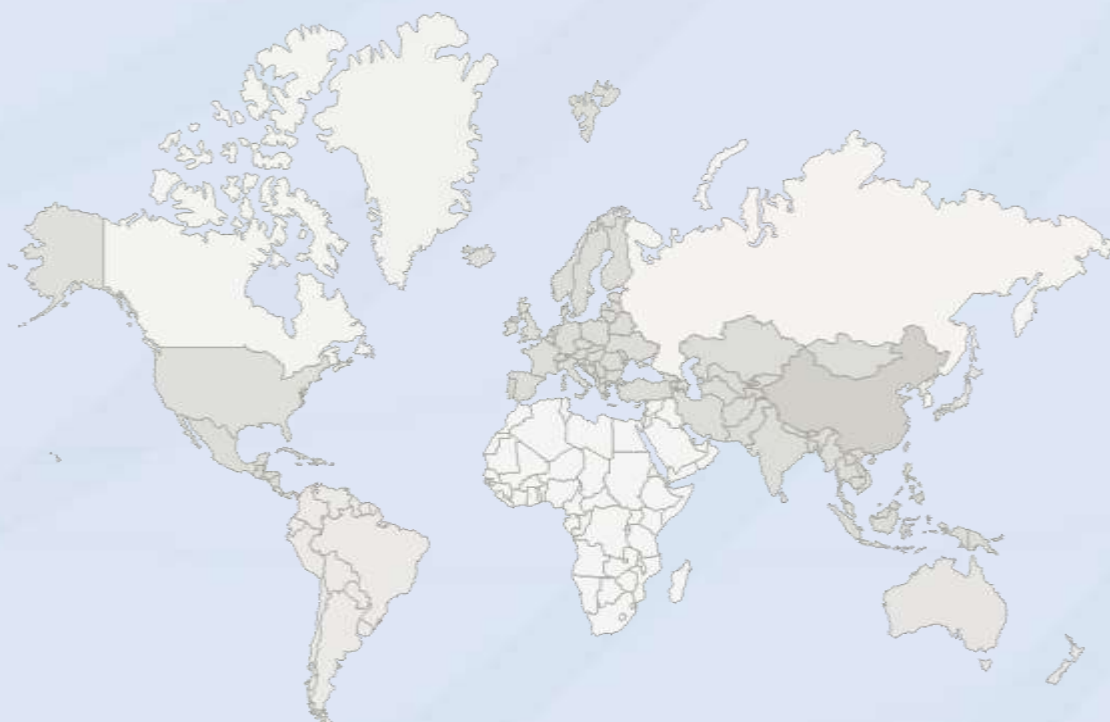
FCC TEST REPORT

Report No.: NTC-ER2601010

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

Songhu Wisdom Valley, No. 9, Liaobuyan Henan

Address.....: Road, Liaobu Town, Dongguan City, Guangdong
Province Room 1305, Building 1, Industrial Building



DONGGUAN NEW TESTING CENTRE CO., LTD

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TEST REPORT DECLARE

FCC ID	:	2BBZW-SM8H-A
Applicant	:	Dongguan Haiyue intelligent technology Co., LTD
Address	:	Songhu Wisdom Valley, No. 9, Liaobuyan Henan Road, Liaobu Town, Dongguan City, Guangdong Province Room 1305, Building 1, Industrial Building
Equipment under Test	:	Microwave Motion Sensor
Model No	:	SM8H-A The detail refers to the section 2.2 of this report
Trade Mark	:	Grandlite International Corp
Manufacturer	:	Dongguan Haiyue intelligent technology Co., LTD
Address	:	Songhu Wisdom Valley, No. 9, Liaobuyan Henan Road, Liaobu Town, Dongguan City, Guangdong Province Room 1305, Building 1, Industrial Building
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-ER2601010		
Date of Test:	May.22, 2026 to May.26, 2026	Date of Report:	Jun.25,2026

Prepared By:

Taylor Chen

Taylor Chen /Engineer

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

Approved By:



Dave Gou/LAB Manager

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	N/A
§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	:	Microwave Motion Sensor
Test model	:	SM8H-A
EUT function description	:	Please reference user manual of this device
Power supply	:	DC10.5-15V
Trade mark	:	Grandlite International Corp
Operation frequency	:	5800±75MHz
Modulation	:	FMCW
Antenna Type	:	Integrated antenna
Antenna Gain	:	5.42dBi

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

2.2. Detail models

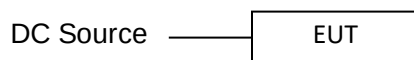
Model	Rating	Note
SM8H-A	DC10.5-15V Battery	

2.3. Support Equipment

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
DC Source	TIANNENG BATTERY	6-DZF-20	-	--	--

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°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%

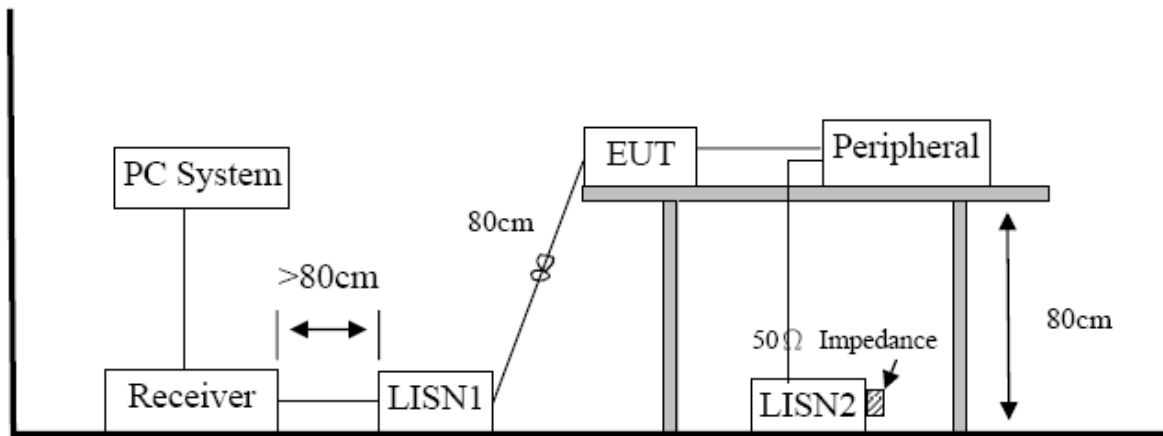
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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	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	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 C63.10:2020.

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

N/A

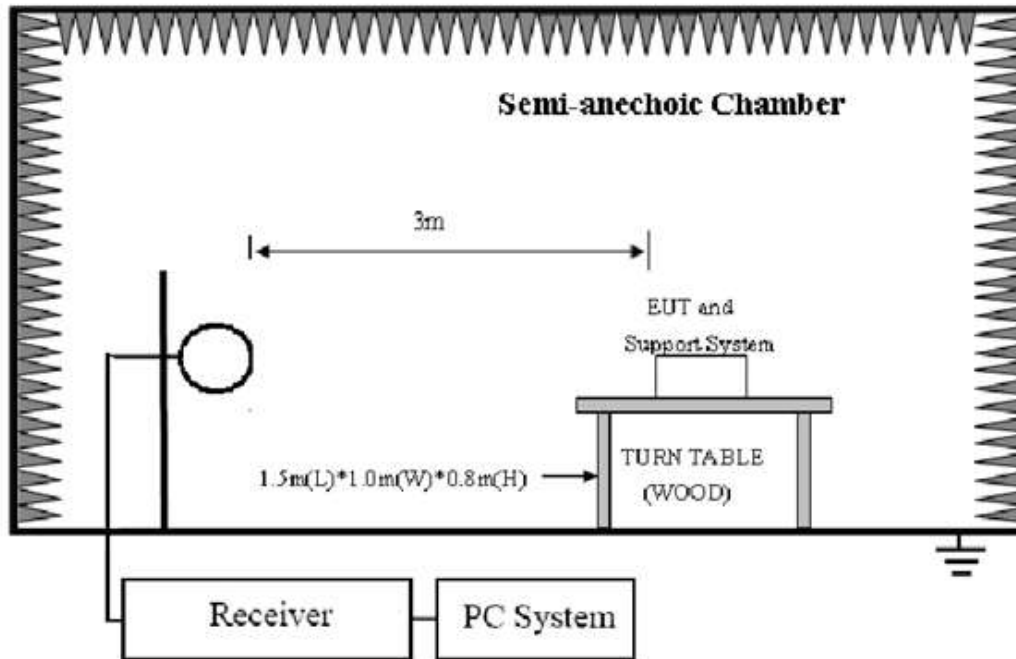
4. Radiated emission test

4.1. Test equipment

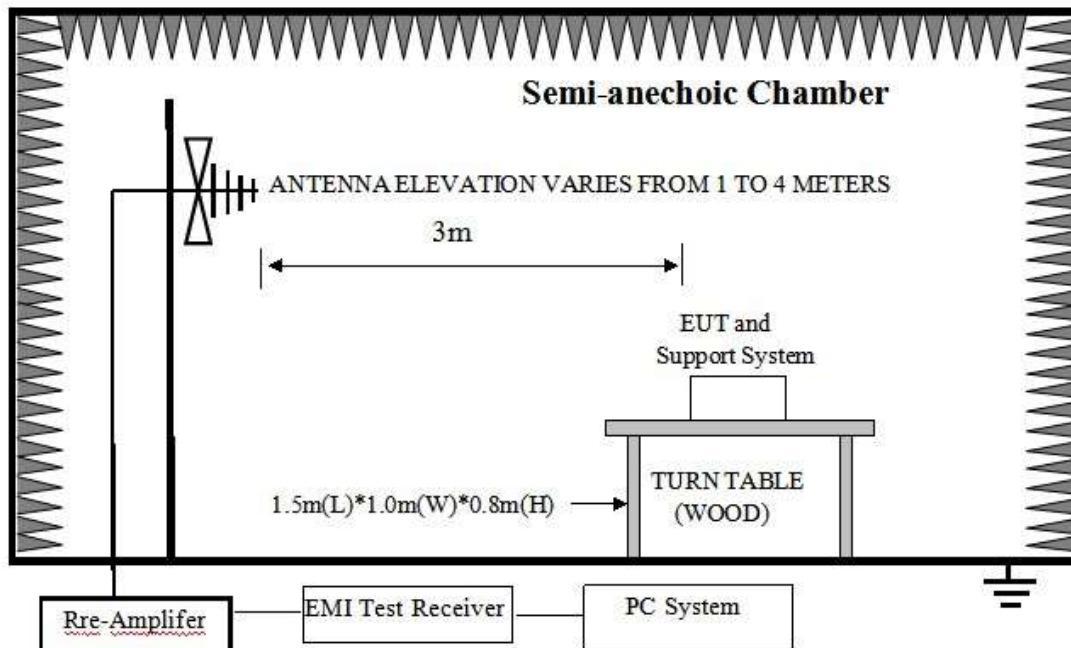
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESCI	101699	2026-05-11	1Year
2	EMI Test Receiver	R&S	FSP40	101289	2026-05-11	1Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9168	00969	2025-05-08	2 Year
4	Pre-amplifier	R&S	8447F	3113A04553	2026-05-11	1Year
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	OSQ01Q010 78.7	SN1545847 3	2026-05-11	1Year
10	RF Cable	GORE	OSQ01Q010 78.7	SN1545847 4	2026-05-11	1Year
11	RF Cable	ESCO	ETS-LINGR EN	RFC-SMS-1 00-SMS-340 -IN	2026-05-11	1Year
12	Measurement software	Farad	EZ-EMC(VE R:1.1.4.2)	N/A	N/A	N/A

4.2. Block diagram of test setup

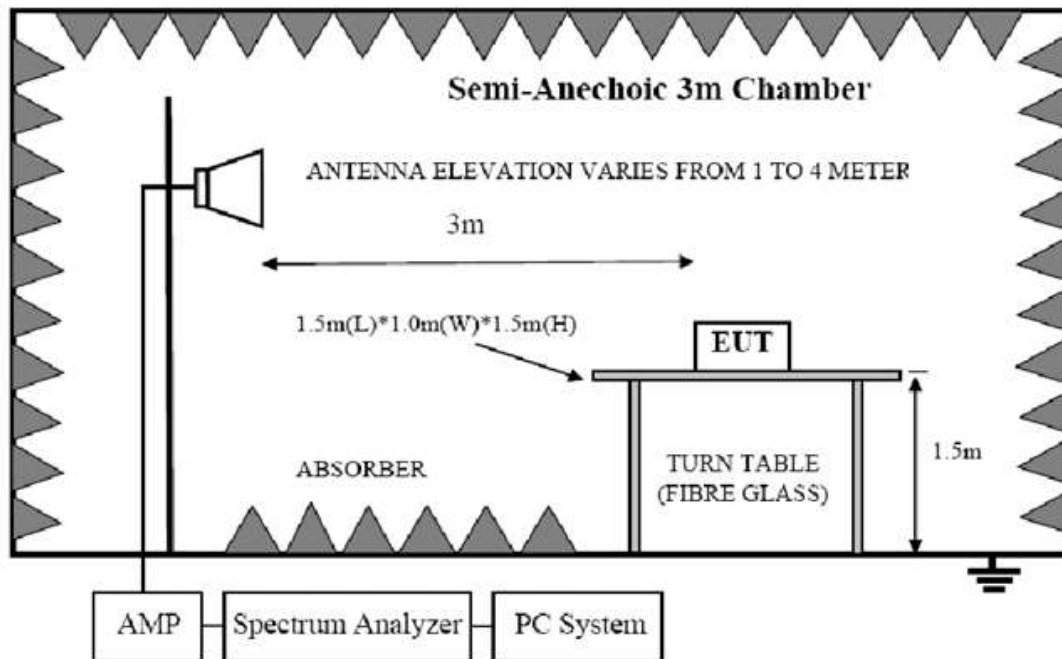
In 3m Anechoic Chamber Test Setup Diagram for 9KHz to 30MHz:



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 C63.10:2020. 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)

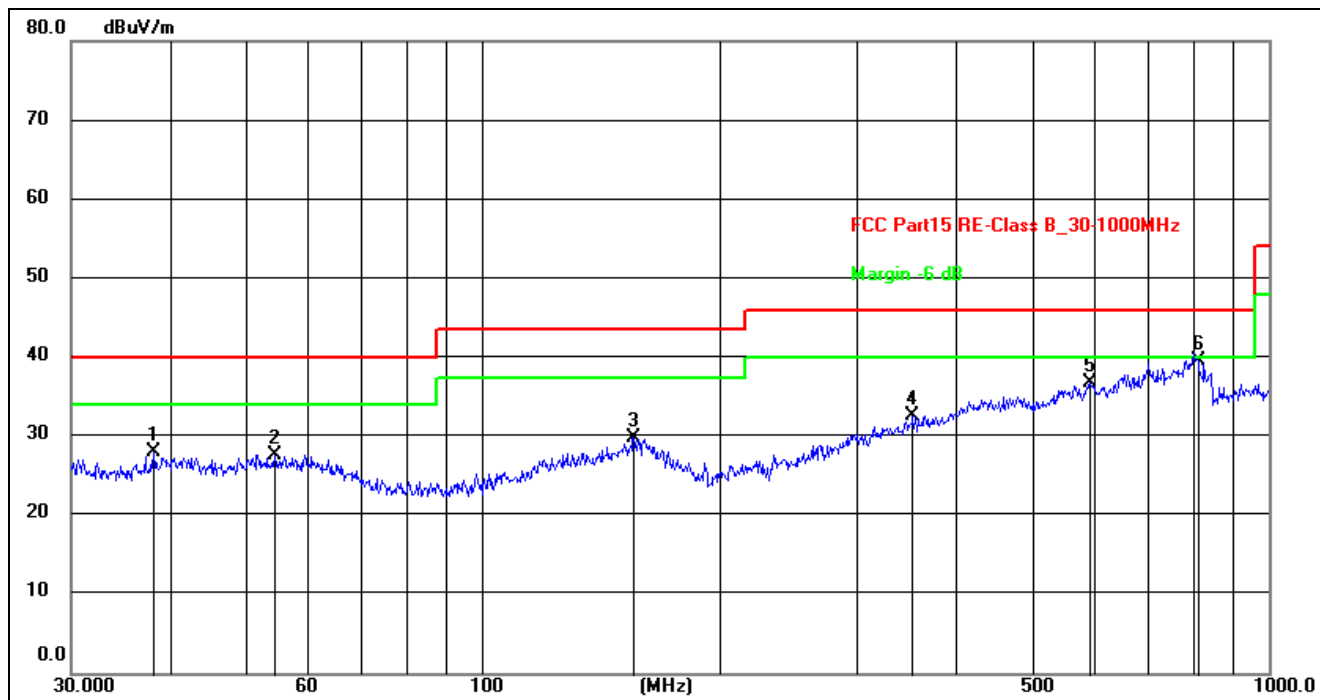
1. Radiated emissions were evaluated from 30 MHz to 26.5 GHz and are reported below.

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.

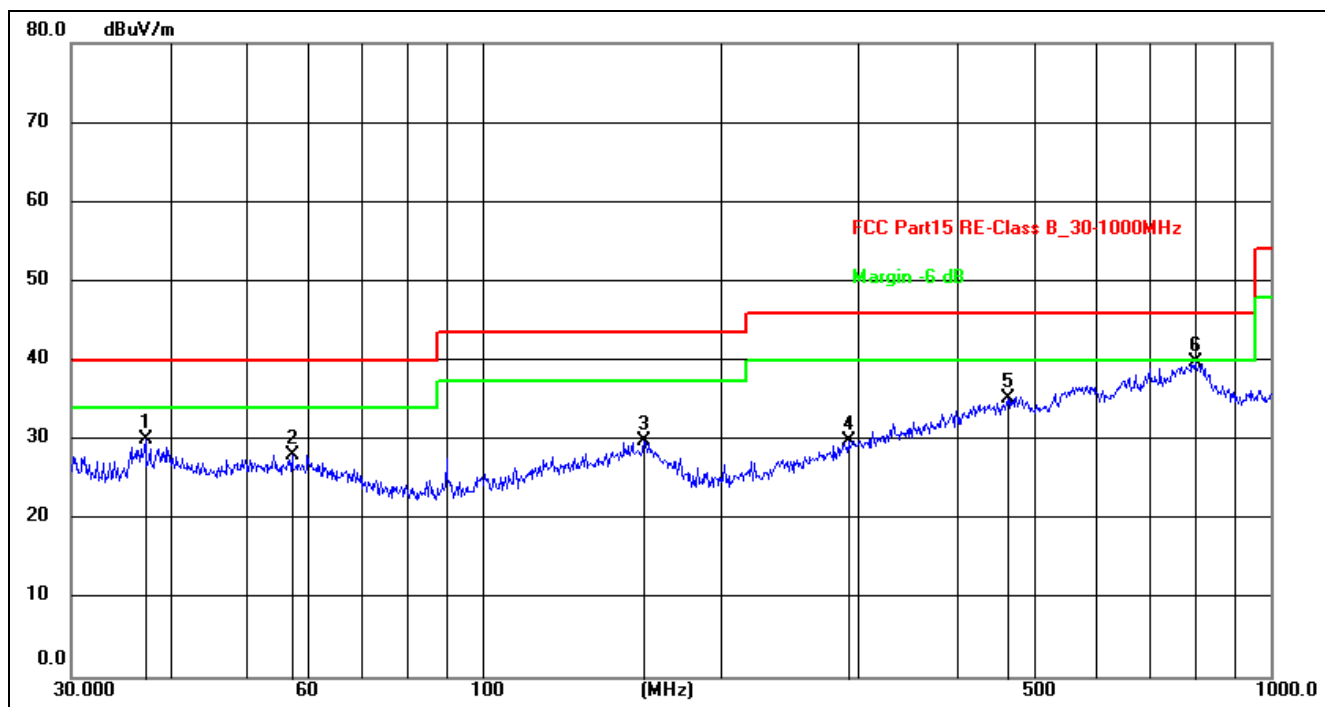
Consequently, no tabulated results are presented for either band.

Radiated Emission Test Result



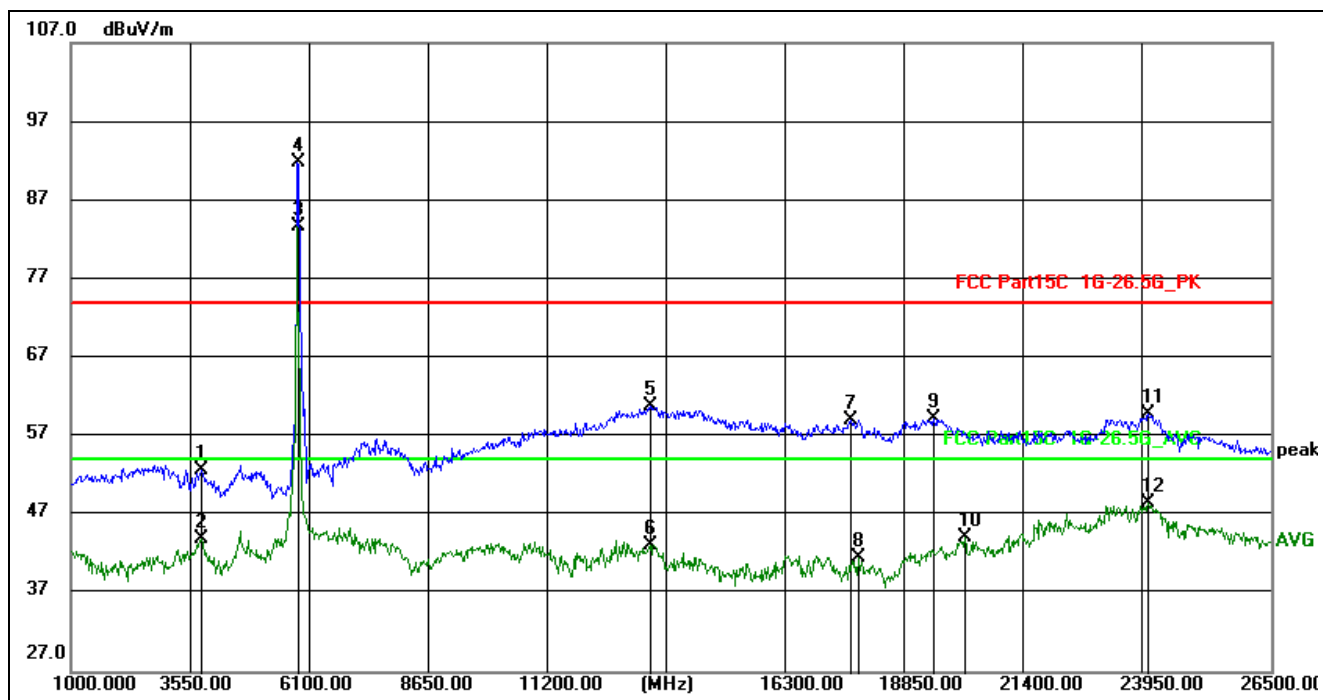
Site:	966LAB	Antenna::Horizontal	Temperature(C):24(C)
Limit:	FCC Part15 RE-Class B_30-1000MHz		Humidity(%):60%
EUT:	Microwave Motion Sensor	Test Time:	2026/5/22 15:20:13
M/N.:	SM8H-A	Power Rating:	DC 12V
Mode:	Lighting	Test Engineer:	Taylor Chen
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	38.2120	14.77	13.34	28.11	40.00	-11.89	peak	200	340	
2	54.4515	14.55	13.23	27.78	40.00	-12.22	peak	100	108	
3	155.9101	15.09	14.86	29.95	43.50	-13.55	peak	100	265	
4	352.9433	17.18	15.56	32.74	46.00	-13.26	peak	200	4	
5	593.0496	15.25	21.51	36.76	46.00	-9.24	peak	200	96	
6 *	813.1115	14.48	25.22	39.70	46.00	-6.30	peak	200	4	



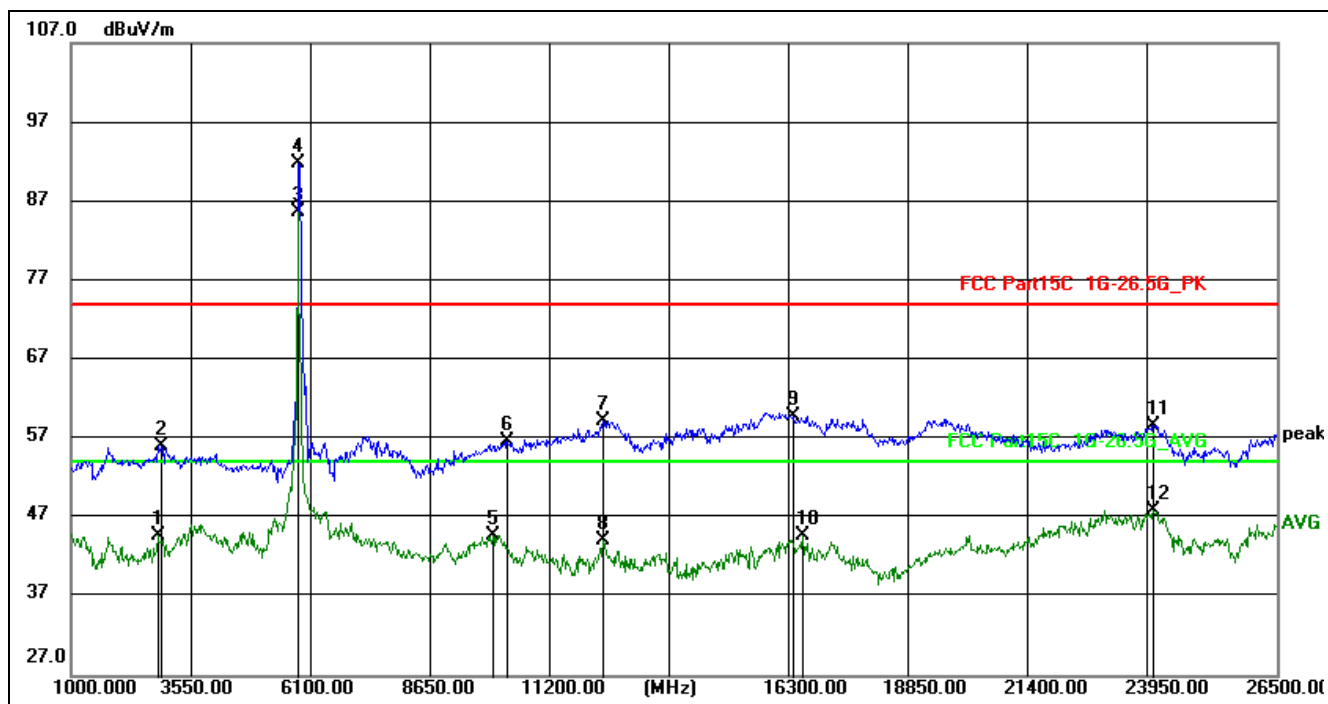
Site:	966LAB	Antenna::Vertical	Temperature(C):24(C)
Limit:	FCC Part15 RE-Class B_30-1000MHz		Humidity(%):60%
EUT:	Microwave Motion Sensor	Test Time:	2026/5/22 15:22:50
M/N.:	SM8H-A	Power Rating:	DC 12V
Mode:	Lighting	Test Engineer:	Taylor Chen
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	37.2855	16.88	13.12	30.00	40.00	-10.00	peak	100	262	
2	57.1914	14.94	13.23	28.17	40.00	-11.83	peak	200	330	
3	160.3456	14.78	15.07	29.85	43.50	-13.65	peak	100	292	
4	291.0360	15.63	14.29	29.92	46.00	-16.08	peak	100	207	
5	463.9696	16.61	18.70	35.31	46.00	-10.69	peak	100	340	
6 *	801.7863	14.47	25.29	39.76	46.00	-6.24	peak	200	356	



Site:	966LAB	Antenna::Horizontal	Temperature(C):24(C)
Limit:	FCC Part15C 1G-26.5G_PK		Humidity(%):60%
EUT:	Microwave Motion Sensor	Test Time:	2026/5/25 9:16:46
M/N.:	SM8H-A	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	3779.500	63.07	-10.38	52.69	74.00	-21.31	peak	100	216	
2	3779.500	54.28	-10.38	43.90	54.00	-10.10	AVG	100	216	
3 *	5836.000	87.40	-3.76	83.64	94.00	-10.36	AVG	200	225	Fundamental
4 X	5836.000	95.49	-3.76	90.34	114.00	-23.66	peak	200	225	Fundamental
5	13316.500	51.69	9.11	60.80	74.00	-13.20	peak	200	14	
6	13316.500	34.12	9.11	43.23	54.00	-10.77	AVG	200	14	
7	17575.000	46.90	12.21	59.11	74.00	-14.89	peak	100	136	
8	17728.000	29.29	12.26	41.55	54.00	-12.45	AVG	100	136	
9	19334.500	83.36	-24.19	59.17	74.00	-14.83	peak	200	259	
10	19997.500	66.92	-22.71	44.21	54.00	-9.79	AVG	200	259	
11	23899.000	77.84	-18.08	59.76	74.00	-14.24	peak	200	81	
12	23899.000	66.61	-18.08	48.53	54.00	-5.47	AVG	200	81	



Site:	966LAB	Antenna::Vertical	Temperature(C):24(C)
Limit:	FCC Part15C 1G-26.5G_PK		Humidity(%):60%
EUT:	Microwave Motion Sensor	Test Time:	2026/5/25 9:18:26
M/N.:	SM8H-A	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	2836.000	58.44	-13.74	44.70	54.00	-9.30	AVG	100	175	
2	2912.500	69.56	-13.46	56.10	74.00	-17.90	peak	100	175	
3 *	5836.000	89.65	-4.01	85.64	94.00	-8.36	AVG	100	226	Fundamental
4 X	5836.000	95.59	-3.86	91.73	114.00	-22.27	peak	100	226	Fundamental
5	9925.000	39.66	5.16	44.82	54.00	-9.18	AVG	200	254	
6	10231.000	51.29	5.41	56.70	74.00	-17.30	peak	200	254	
7	12245.500	51.52	7.74	59.26	74.00	-14.74	peak	100	112	
8	12245.500	36.34	7.74	44.08	54.00	-9.92	AVG	100	112	
9	16274.500	48.19	11.74	59.93	74.00	-14.07	peak	200	35	
10	16478.500	32.90	11.82	44.72	54.00	-9.28	AVG	200	35	
11	23899.000	76.84	-18.08	58.76	74.00	-15.24	peak	100	204	
12	23899.000	66.11	-18.08	48.03	54.00	-5.97	AVG	100	204	

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	HORIZONTAL	
								Preampli -fier (dB)	Correcti on Factor (dB/m)
5721.50	57.31	PK	74.00	-16.69	66.97	27.83	4.95	42.44	-9.66
5721.50	48.93	AV	54.00	-5.07	58.59	27.83	4.95	42.44	-9.66
5724.00	58.56	PK	74.00	-15.44	69.67	27.10	4.17	42.37	-11.11
5724.00	45.09	AV	54.00	-8.91	56.20	27.10	4.17	42.37	-11.11

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	VERTICAL	
								Preampli -fier (dB)	Correcti on Factor (dB/m)
5721.50	58.20	PK	74.00	-15.80	67.86	27.83	4.95	42.44	-9.66
5721.50	48.80	AV	54.00	-5.20	58.47	27.83	4.95	42.44	-9.66
5724.00	58.23	PK	74.00	-15.77	69.34	27.10	4.17	42.37	-11.11
5724.00	46.89	AV	54.00	-7.11	58.00	27.10	4.17	42.37	-11.11

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	HORIZONTAL	
								Preampli -fier (dB)	Correcti on Factor (dB/m)
5876.00	57.66	PK	74.00	-16.34	67.79	27.57	4.77	42.47	-10.14
5876.00	48.57	AV	54.00	-5.43	58.70	27.57	4.77	42.47	-10.14
5879.00	58.52	PK	74.00	-15.48	69.52	27.20	4.58	42.79	-11.00
5879.00	49.48	AV	54.00	-4.52	60.48	27.20	4.58	42.79	-11.00

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (Db)	VERTICAL	
								Preampli -fier (dB)	Correcti on Factor (dB/m)
5876.00	57.29	PK	74.00	-16.71	67.42	27.57	4.77	42.47	-10.14
5876.00	48.19	AV	54.00	-5.81	58.33	27.57	4.77	42.47	-10.14
5879.00	58.51	PK	74.00	-15.49	69.51	27.20	4.58	42.79	-11.00
5879.00	47.23	AV	54.00	-6.77	58.23	27.20	4.58	42.79	-11.00

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

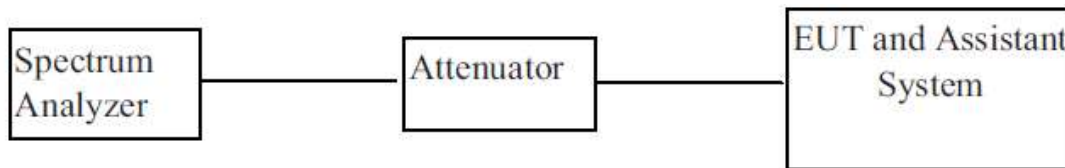
2. Antenna polarization: “H” means Horizontal , “V” means Vertical.

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

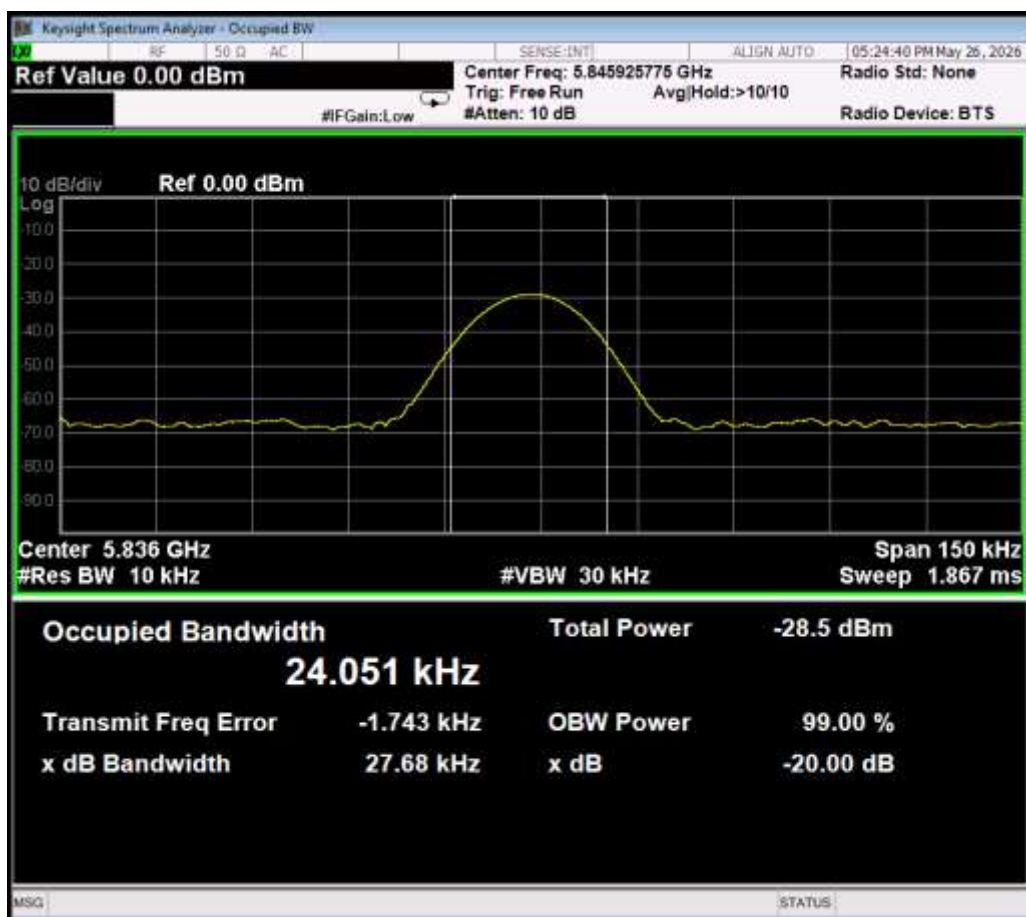
in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule 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	5836	Ant 1	2.4051	2.768	$0.5\% \times 5836 = 29.180$	Pass



6. Test setup photograph

6.1. Photos of radiated emission test

30MHz – 1GHz



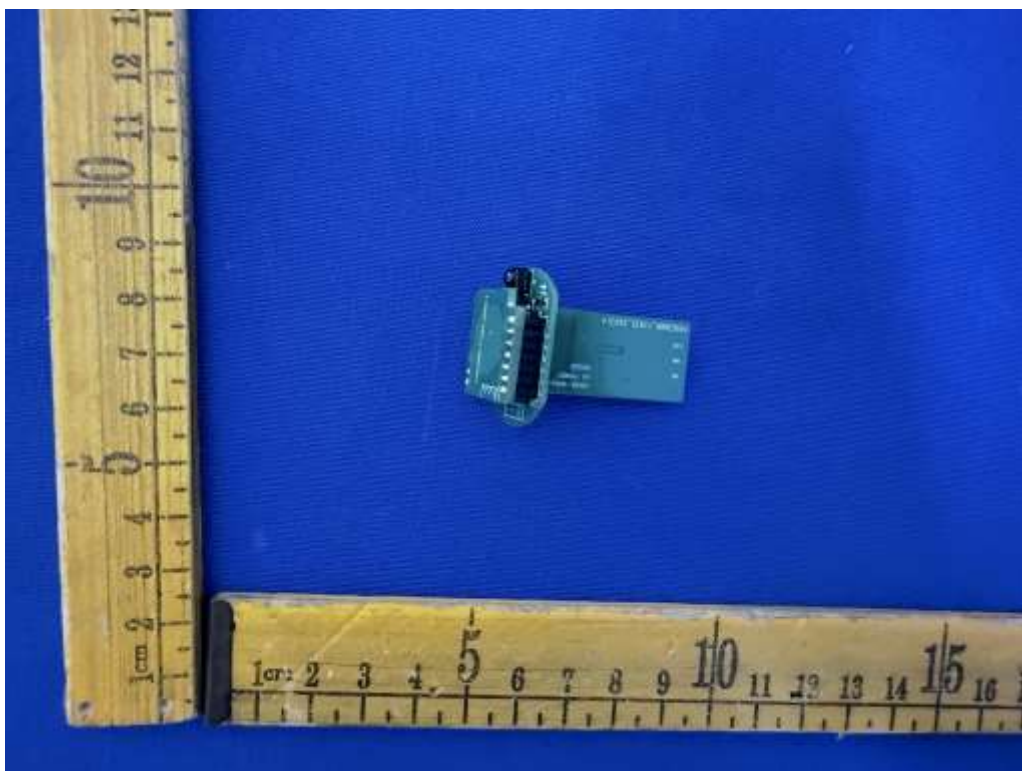
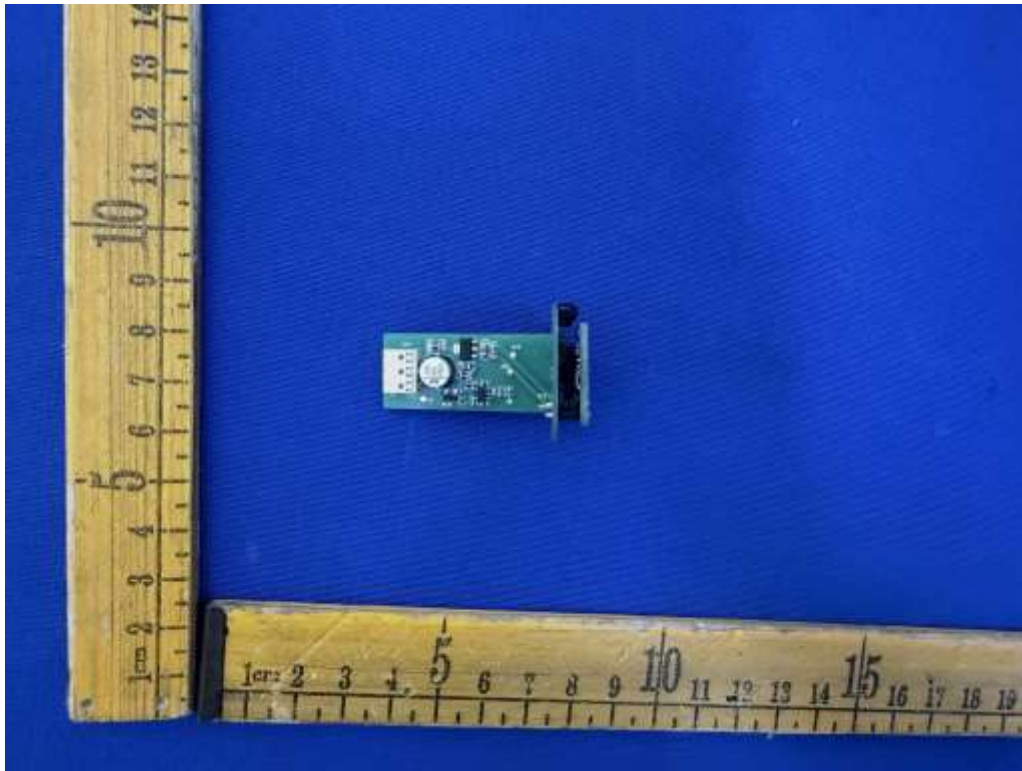
Above 1GHz

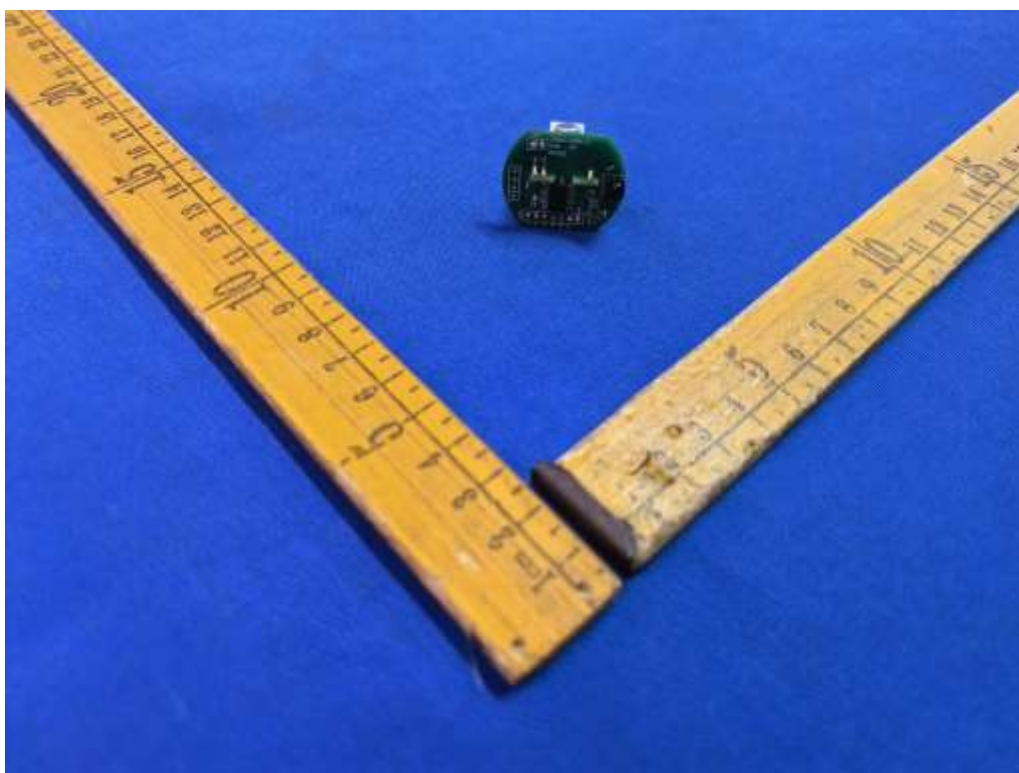
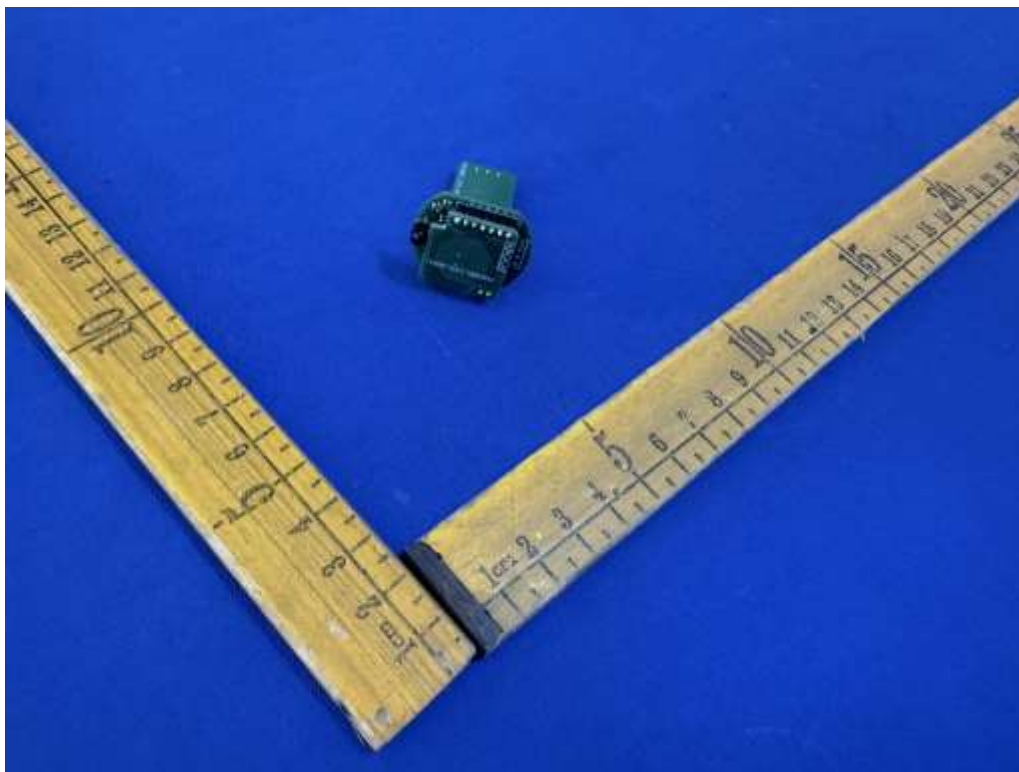


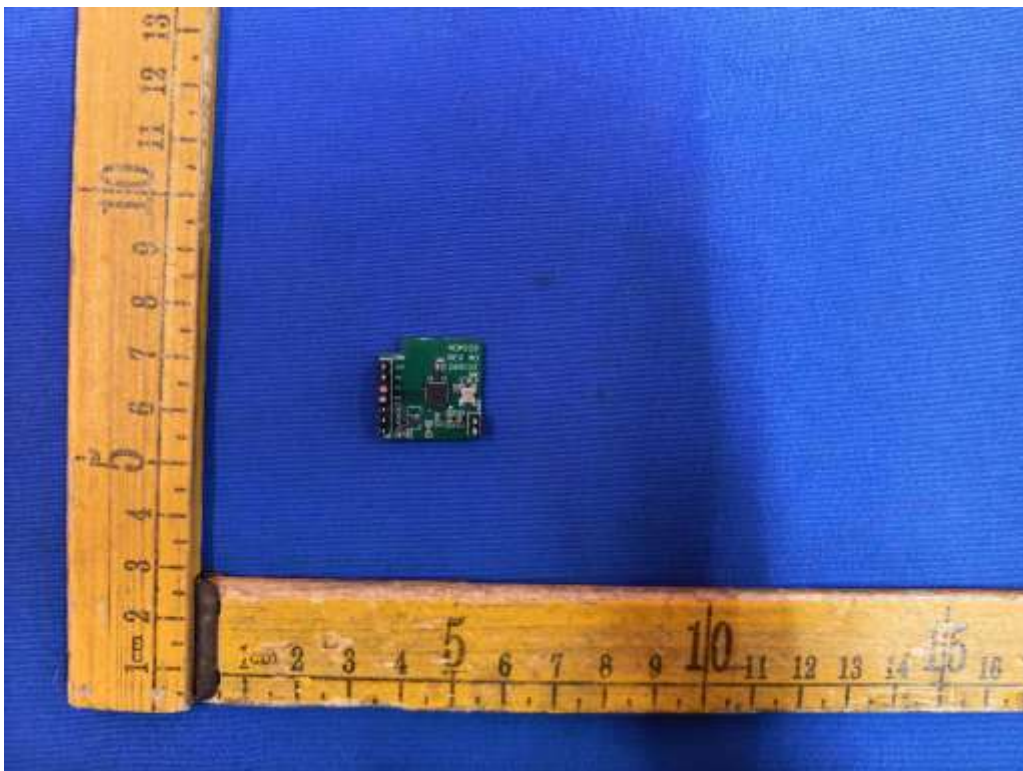
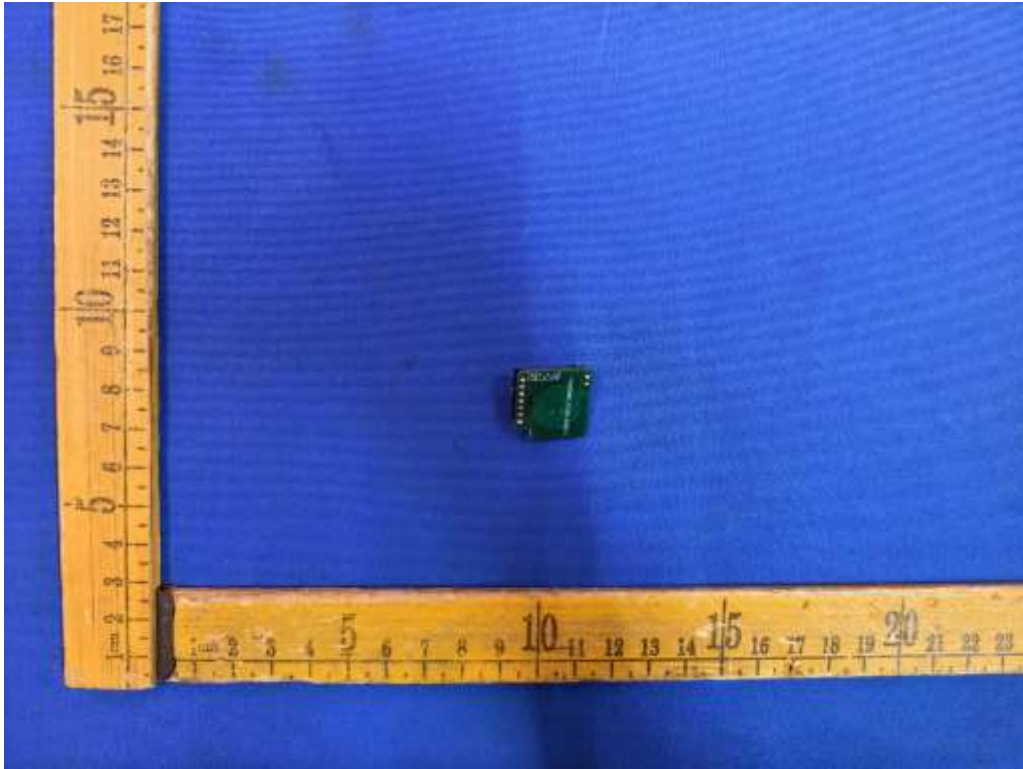
7. Photos of the EUT

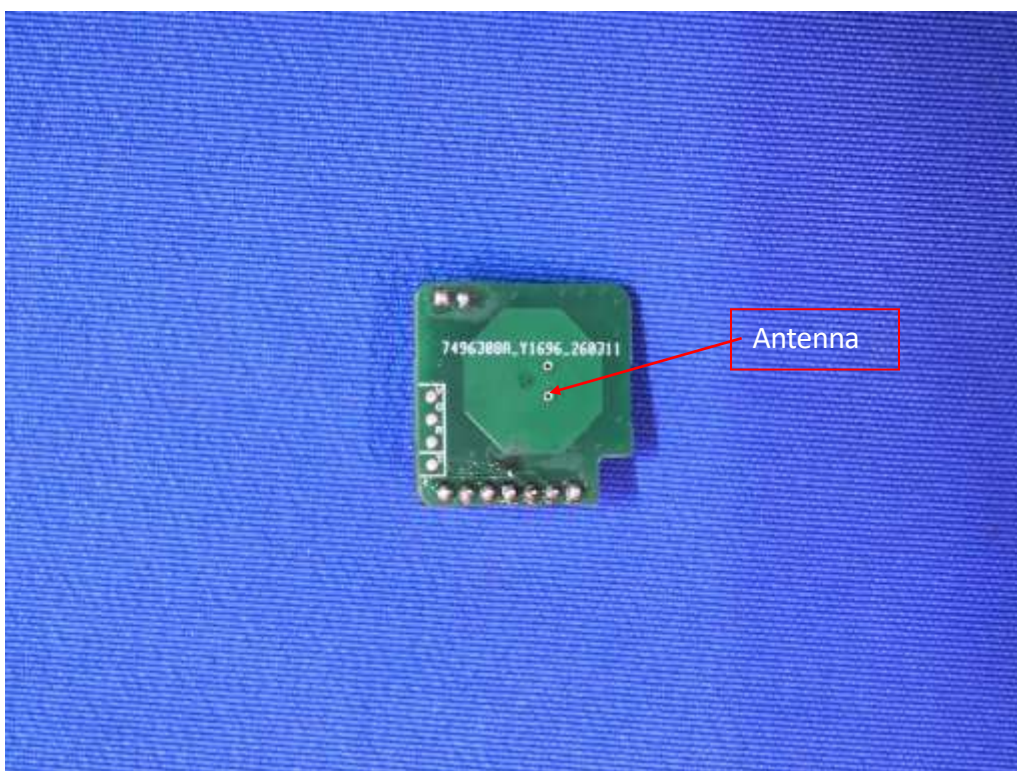












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