

Shenzhen CTL Testing Technology Co., Ltd. Tel:+86-755-89486194 E-Mail:ctl@ctl-lab.com

esting Technology

FCC SDoC Test Report

FCC PART 15 Subpart B

Report Reference No...... CTL2308102051-F

Compiled by

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Name of the organization performing

the tests (position+printed name+signature)..:

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Date of issue...... Aug. 29, 2023

Representative Laboratory Name: Shenzhen CTL Testing Technology Co., Ltd.

Address...... Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,

Nanshan District, Shenzhen, China 518055

Test Firm...... Shenzhen CTL Testing Technology Co., Ltd.

Address....... Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,

Nanshan District, Shenzhen, China 518055

Applicant's name...... Shenzhen Prodo Technology Co., Ltd.

street, Guangming district, Shenzhen City, 518000

Test specification:

Standard...... FCC PART 15 Subpart B

TRF Originator...... Shenzhen CTL Testing Technology Co., Ltd.

Shenzhen CTL Testing Technology Co., Ltd.

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Test item description.....: Smart Radon Gas Detector

Trade Mark: N/A

Rating...... AC 100-240V~50/60Hz

Result..... Pass

FCC Test Report

Test Report No.:	CTL2308102051-F	Aug. 29, 2023
rest iteport ito	C1L2300102031-1	Date of issue

Equipment under Test : Smart Indoor Multiple Air Quality Monitor

Type / Model : PT07

Listed Models : N/A

Applicant : Shenzhen Prodo Technology Co., Ltd.

Address : 4th floor, J building, No 6 Zhongtai Road, Loucun community, Xinhu

street, Guangming district, Shenzhen City, 518000

Manufacturer : Shenzhen Prodo Technology Co., Ltd.

Address : 4th floor, J building, No 6 Zhongtai Road, Loucun community, Xinhu

street, Guangming district, Shenzhen City, 518000

Test Result	Pass

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

V1.0 Page 3 of 22 Report No.: CTL2308102051-F

History of this test report

Report No.	Version	Description	Issued Date
CTL2308102051-F	V1.0	Initial Issued Report	Aug. 29, 2023

Content

2. SUMMARY 6 2.1. General Remarks 6 2.2. Equipment Under Test 6 2.3. Short description of the Equipment under Test (EUT) 6 2.4. EUT operation mode 7 2.5. EUT configuration 7 2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20 6. PHOTOS OF THE EUT 21	1. TEST STANDARDS	5
2.2. Equipment Under Test 6 2.3. Short description of the Equipment under Test (EUT) 6 2.4. EUT operation mode 7 2.5. EUT configuration 7 2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2. SUMMARY	6
2.3. Short description of the Equipment under Test (EUT) 62.4 EUT operation mode 7 2.5. EUT configuration 7 2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.1. General Remarks	6
2.3. Short description of the Equipment under Test (EUT) 62.4 EUT operation mode 7 2.5. EUT configuration 7 2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.2. Equipment Under Test	6
2.4. EUT operation mode 7 2.5. EUT configuration 7 2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.3. Short description of the Equipment under Test (EUT)	6
2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.4. EUT operation mode	
2.6. Related Submittal(s) / Grant (s) 7 2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.5. EUT configuration	
2.7. Modifications 7 2.8. Test Result Summary 7 3. TEST ENVIRONMENT 8 3.1. Address of the test laboratory 8 3.2. Test Facility 8 3.3. Environmental conditions 8 3.4. Statement of the measurement uncertainty 9 3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 11 4.1. Radiated Emission Test 11 4.2. Conducted Emissions Test 17 5. TEST SETUP PHOTOS OF THE EUT 20	2.6. Related Submittal(s) / Grant (s)	
2.8. Test Result Summary	2.7. Modifications	7
3. TEST ENVIRONMENT		
3.2. Test Facility	3. TEST ENVIRONMENT	8
3.3. Environmental conditions	3.1. Address of the test laboratory	
3.4. Statement of the measurement uncertainty	3.2. Test Facility	
3.5. Equipments Used during the Test 9 4 TEST CONDITIONS AND RESULTS 9 4.1. Radiated Emission Test 9 4.2. Conducted Emissions Test 9 5. TEST SETUP PHOTOS OF THE EUT 9 20	3.3. Environmental conditions	8
4 TEST CONDITIONS AND RESULTS	3.4. Statement of the measurement uncertainty	9
4.1. Radiated Emission Test	3.5. Equipments Used during the Test	<u>S</u>
4.1. Radiated Emission Test		
4.2. Conducted Emissions Test		
4.2. Conducted Emissions Test	4.1. Radiated Emission Test	11
	4.2. Conducted Emissions Test	17
6. PHOTOS OF THE EUT	5. TEST SETUP PHOTOS OF THE EUT	2 0
	6 PHOTOS OF THE FUT	2 1

V1.0 Page 5 of 22 Report No.: CTL2308102051-F

1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15 Subpart B - Unintentional Radiators

ANSI C63.4-2014

V1.0 Page 6 of 22 Report No.: CTL2308102051-F

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : Aug. 11, 2023

Testing commenced on : Aug. 11, 2023

Testing concluded on : Aug. 25, 2023

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : ■ 120V / 60 Hz o 115V / 60Hz

o 3.7 V DC o 5 V DC

o Other (specified in blank below)

Description of test modes

The EUT were tested under the following modes, the final worst mode was marked in bold face and recorded in this report.

EMISSION TEST:

Description of Test Mode	Test Voltage
WORKING	AC 120V/60Hz

Note:

For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.

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

Smart Indoor Multiple Air Quality Monitor.

For more details, refer to the user's manual of the EUT.

V1.0 Page 7 of 22 Report No.: CTL2308102051-F

2.4. EUT operation mode

The EUT has been tested under typical operating condition.

2.5. EUT configuration

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

- supplied by the manufacturer
- supplied by the lab

2.6. Related Submittal(s) / Grant (s)

This test report is intended for Smart Radon Gas Detector filing to comply with the FCC Part 15, Subpart B Rules

2.7. Modifications

No modifications were implemented to meet testing criteria.

2.8. Test Result Summary

Test Item	Test Requirement	Standard Paragrph	Result
Radiated Emission	FCC PART 15 Subpart B	Section 15.109	PASS
Conducted Emission	FCC PART 15 Subpart B	Section 15.107	PASS

V1.0 Page 8 of 22 Report No.: CTL2308102051-F

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

3.2. Test Facility

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 399832

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832, December 08, 2017.

Certificated by A2LA, USA

Registration No.:4343.01

Date of registration: December 27, 2017

3.3. Environmental conditions

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

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

V1.0 Page 9 of 22 Report No.: CTL2308102051-F

3.4. Statement of the measurement uncertainty

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

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission(chamber 1)	30~1000MHz	±4.10dB	(1)
Radiated Emission(chamber 2)	30~1000MHz	±4.10dB	(1)
Radiated Emission(chamber 2)	Above 1GHz	\pm 4.32dB	(1)
Conducted Emission	0.15~30MHz	±3.20dB	(1)
Conducted Emission (signal terminal)	0.15~30MHz	\pm 2.96dB	(1)
Disturbance Power	30~300MHz	±2.90dB	(1)

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

3.5. Equipments Used during the Test

Radiated Emission(chamber 1)						
Test Equipment	Manufacturer	Model No. Serial No. Last Cal. Ca		Cal.Due		
ULTRA- BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2023/02/13	2026/02/12	
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2023/05/04	2024/05/03	
Software:						
Name of		Version:				
EZ_EMC(Below 1GHz)			1	V1.1.4.2		
	Test Equipment ULTRA- BROADBAND ANTENNA EMI Test Receiver re: Name of	Test Equipment Manufacturer ULTRA- BROADBAND ANTENNA EMI Test Receiver ROHDE & SCHWARZ re: Name of Software:	Test Equipment Manufacturer Model No. ULTRA- BROADBAND ANTENNA EMI Test Receiver ROHDE & SCHWARZ re: Name of Software:	Test Equipment Manufacturer Model No. Serial No. ULTRA-BROADBAND ANTENNA EMI Test Receiver ROHDE & SCHWARZ ESCI 1166.5950.03 re: Name of Software:	Test Equipment Manufacturer Model No. Serial No. Last Cal. ULTRA-BROADBAND Corp. Sunol Sciences Corp. JB1 Antenna A061713 2023/02/13 EMI Test Receiver ROHDE & SCHWARZ ESCI 1166.5950.03 2023/05/04 re: Name of Software: Version:	

Radia	Radiated Emission(chamber 2)						
Item	Test Equipment	Manufacturer	Model No.		Serial No.	Last Cal.	Cal.Due
1	ULTRA- BROADBAND ANTENNA	Schwarzbeck	VULB 9168		824	2023/02/13	2026/02/12
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCI		1166.5950.03	2023/05/04	2024/05/03
3	Horn Antenna	Sunol Sciences Corp	DRH-118		A062013	2021/12/23	2024/12/22
Softw	Software:						
	Name of Software:					/ersion:	
	EZ_EMC				1	/1.1.4.2	

Cond	ucted Emission						
Item	Test Equipment	Manufacturer	Model No	D.	Serial No.	Last Cal.	Cal.Due
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI		1166.5950.03	2023/05/04	2024/05/03
2	LISN	ROHDE & SCHWARZ	ESH2-Z5		860014/010	2023/05/04	2024/05/03
3	Limitator	ROHDE & SCHWARZ	ESH3-Z2		100408	2023/05/04	2024/05/03
4	The Impedance Stability Network ISN	FISCHER CUSTOM COMMUNICATI ONS,INC.	F-071118 1057-1-0		112299	2023/05/05	2024/05/04
Software:							
Name of Software:				Version:			
ES-K1			V1.71				

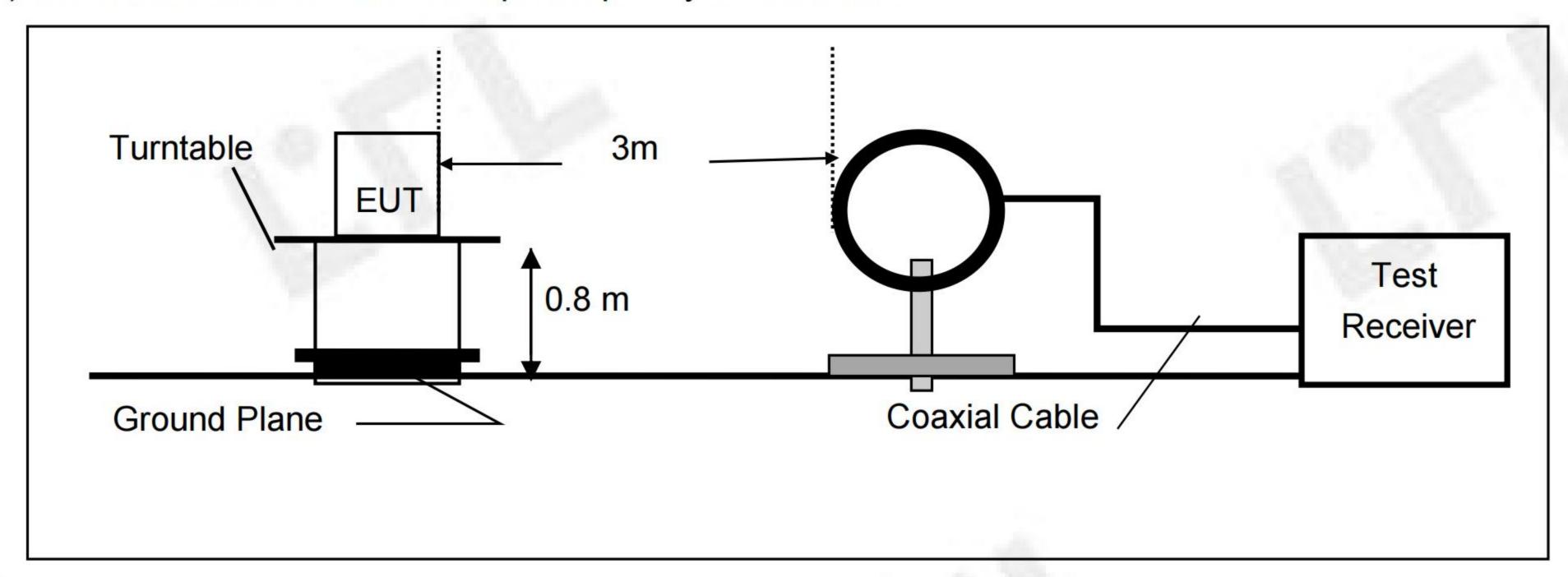
V1.0 Report No.: CTL2308102051-F

4 TEST CONDITIONS AND RESULTS

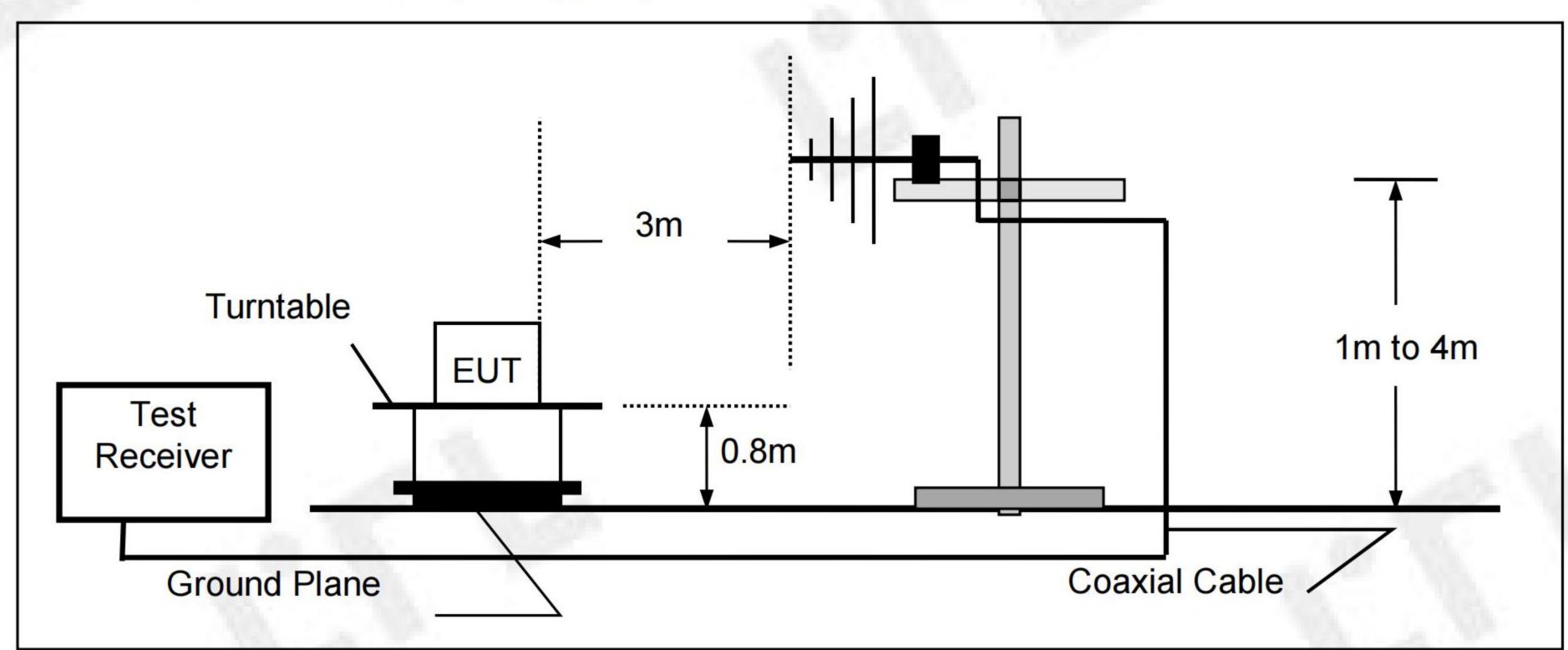
4.1. Radiated Emission Test

TEST CONFIGURATION

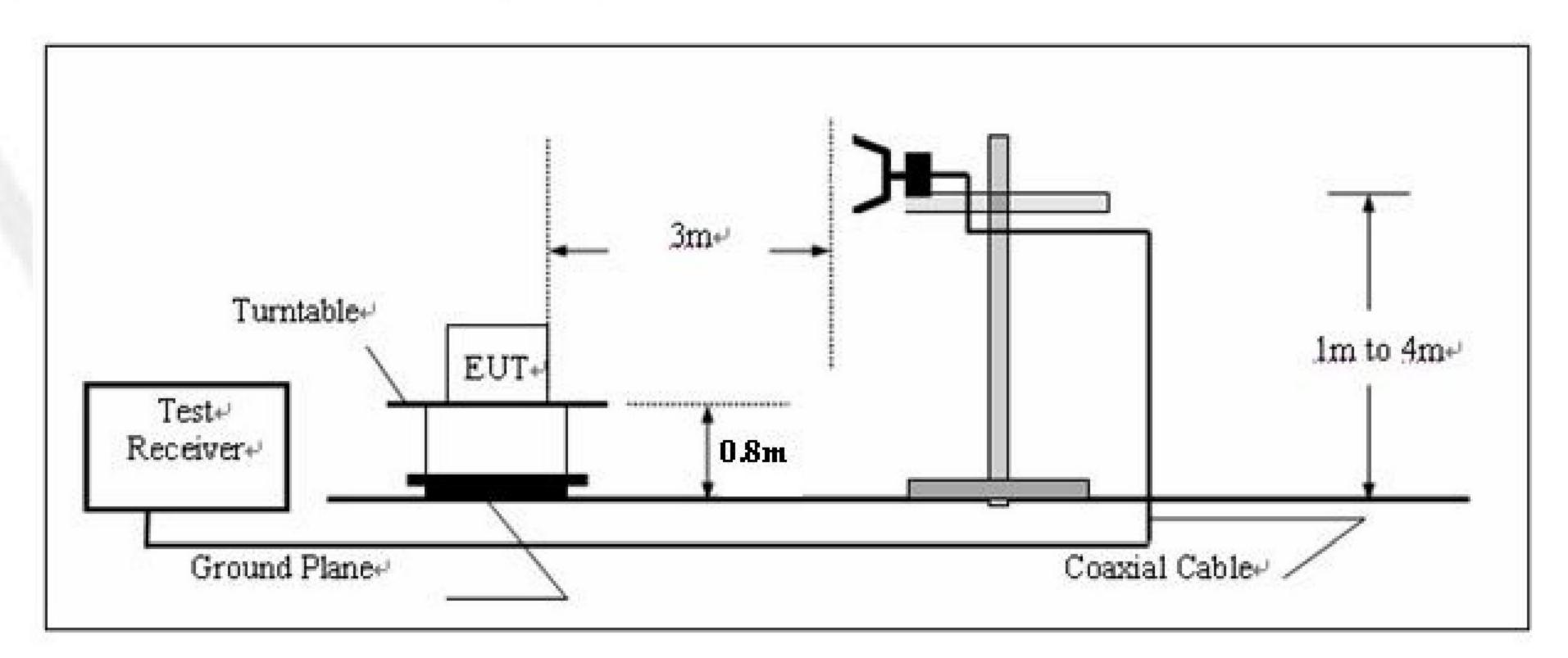
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



V1.0 Page 12 of 22 Report No.: CTL2308102051-F

Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

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

RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	49	100
88-216	3	53.5	150
216-960	3	56	200
Above 960	3	60	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

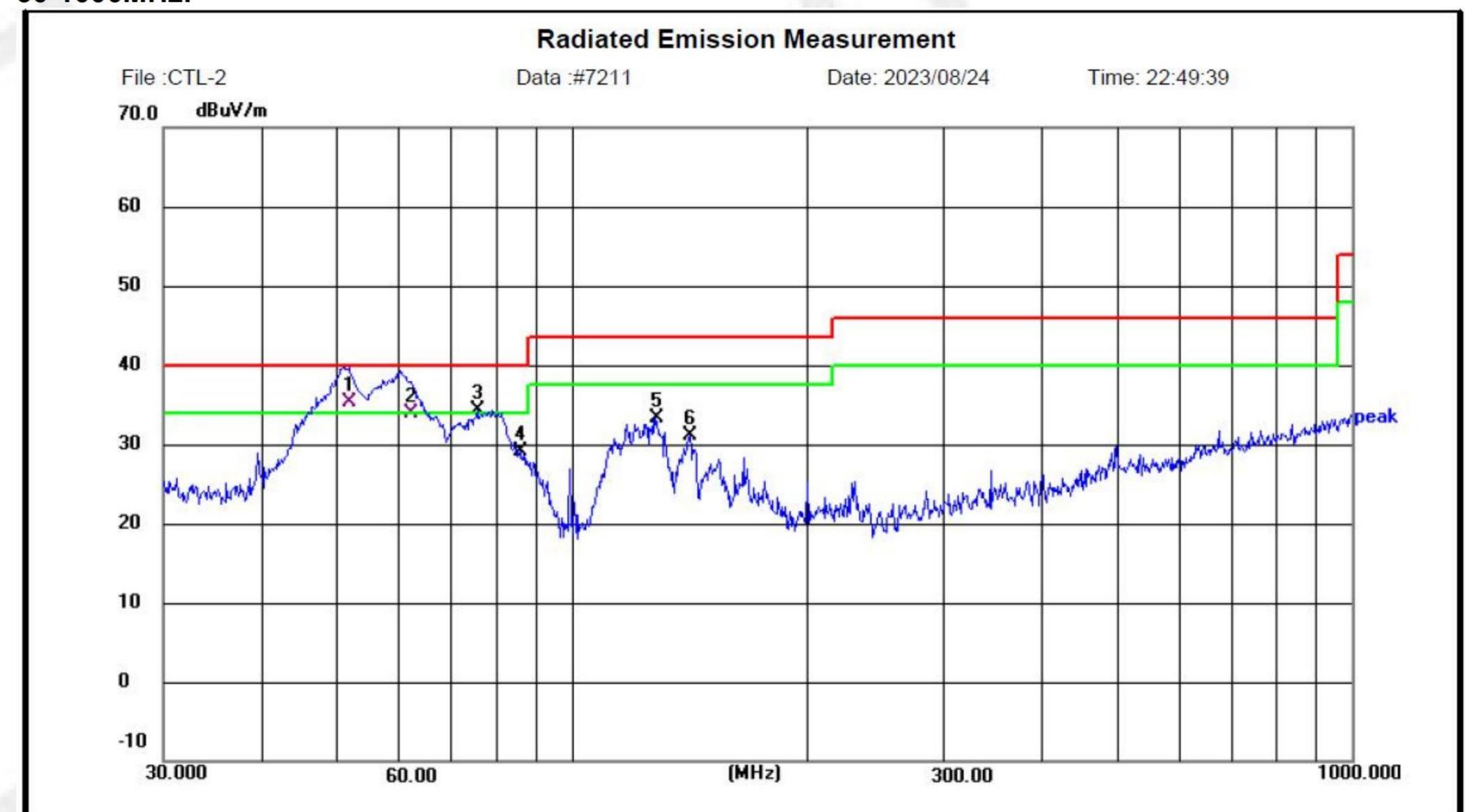
Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

Radiation Test Results

V1.0 Page 13 of 22 Report No.: CTL2308102051-F

30-1000MHz:



Site LAB Chamber 1

Limit: FCC Part 15 B Class B_30-1000MHz

EUT: / Distance: 3m

M/N: PT02-Plus

Mode: WORKING

Note: /

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	51.8430	25.75	9.51	35.26	40.00	4.74	QP	100	0	Р	
2	61.9951	24.30	9.57	33.87	40.00	6.13	QP	100	0	Р	
3	75.7114	24.52	9.82	34.34	40.00	5.66	peak	100	328	Р	
4	85.8984	18.64	10.51	29.15	40.00	10.85	peak	100	266	Р	
5	128.1130	18.71	14.64	33.35	43.50	10.15	peak	100	0	Р	
6	141.8262	15.24	15.79	31.03	43.50	12.47	peak	100	230	Р	

Power:

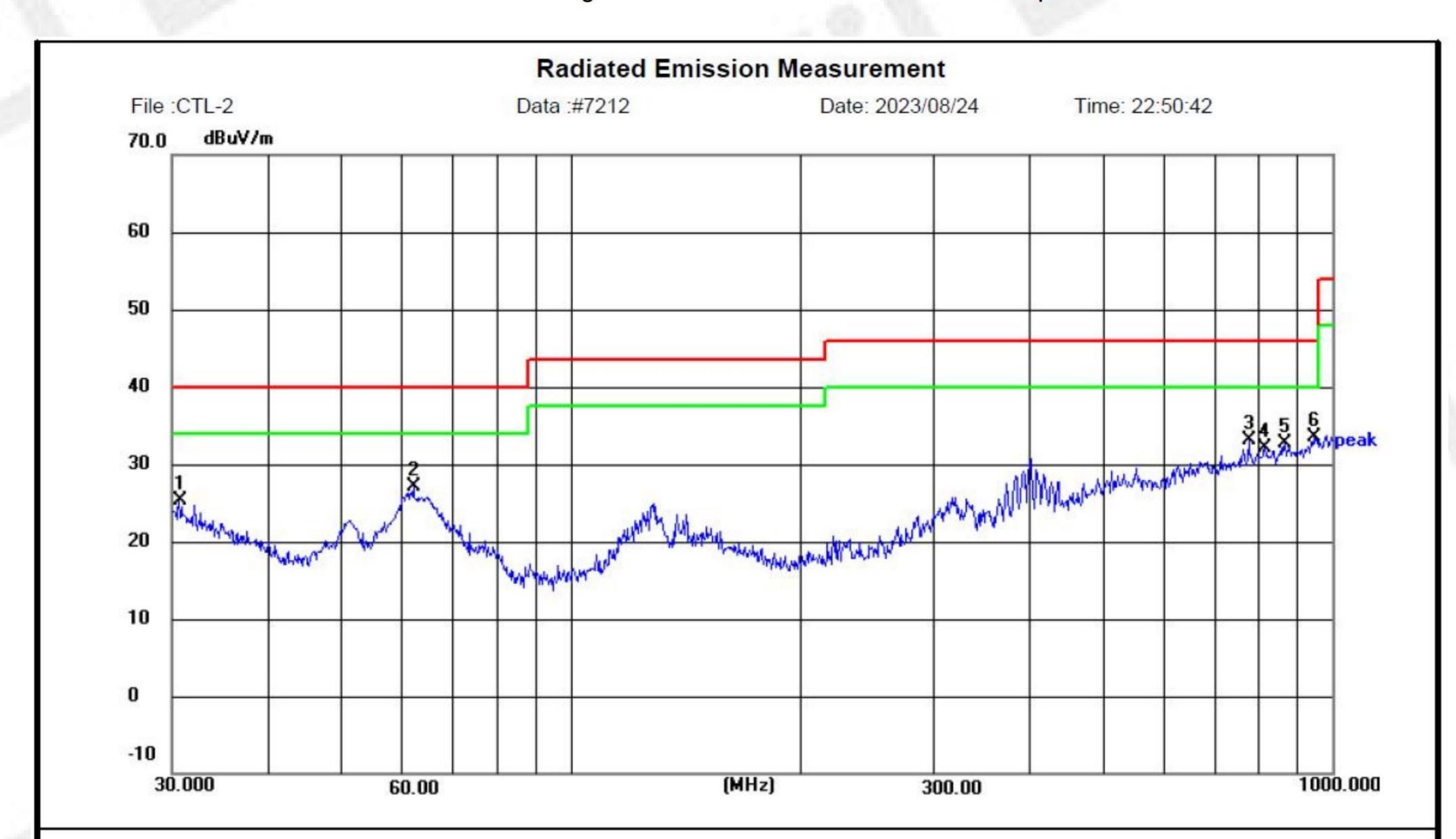
Polarization: Vertical

AC 120V/60Hz

Temperature:

Humidity:

25(C)



Site LAB Chamber 1

Limit: FCC Part 15 B Class B_30-1000MHz

EUT: / Distance: 3m

M/N: PT02-Plus Mode: WORKING

Note: /

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.6379	4.97	20.24	25.21	40.00	14.79	peak	100	359	Р	
2	62.2128	17.49	9.57	27.06	40.00	12.94	peak	100	342	Р	
3	776.8778	7.23	25.87	33.10	46.00	12.90	peak	100	32	Р	
4	815.9678	5.57	26.51	32.08	46.00	13.92	peak	100	191	Р	
5	866.0879	5.83	26.90	32.73	46.00	13.27	peak	100	297	Р	
6	945.4399	5.71	27.74	33.45	46.00	12.55	peak	100	59	Р	

Power:

Polarization: Horizontal

AC 120V/60Hz

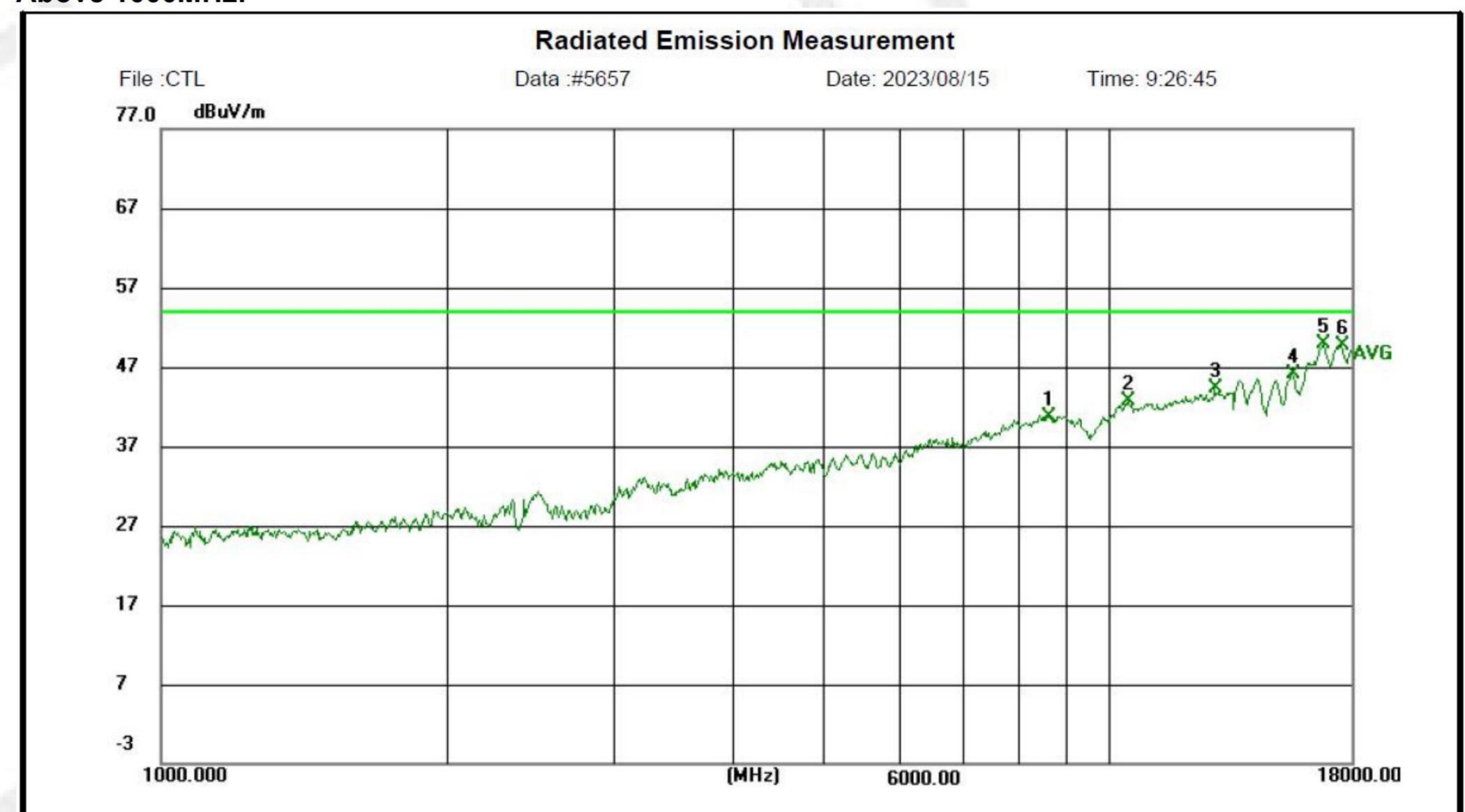
Temperature:

Humidity:

25(C)

V1.0 Page 15 of 22 Report No.: CTL2308102051-F

Above 1000MHz:



Site LAB Chamber 2

Limit: FCC Part 15 B Class B_1-18GHz 3m

EUT: / Distance: 3m

M/N: PT07

Mode: WORKING

Note: /

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	8638.399	28.11	12.65	40.76	54.00	13.24	AVG	100	63	Р	
2	10453.970	28.16	14.56	42.72	54.00	11.28	AVG	100	237	Р	
3	12909.701	27.80	16.51	44.31	54.00	9.69	AVG	100	262	Р	
4	15577.899	27.71	18.42	46.13	54.00	7.87	AVG	100	353	Р	
5	16793.683	27.34	22.48	49.82	54.00	4.18	AVG	100	147	Р	
6	17537.798	26.71	22.92	49.63	54.00	4.37	AVG	100	346	Р	

Power:

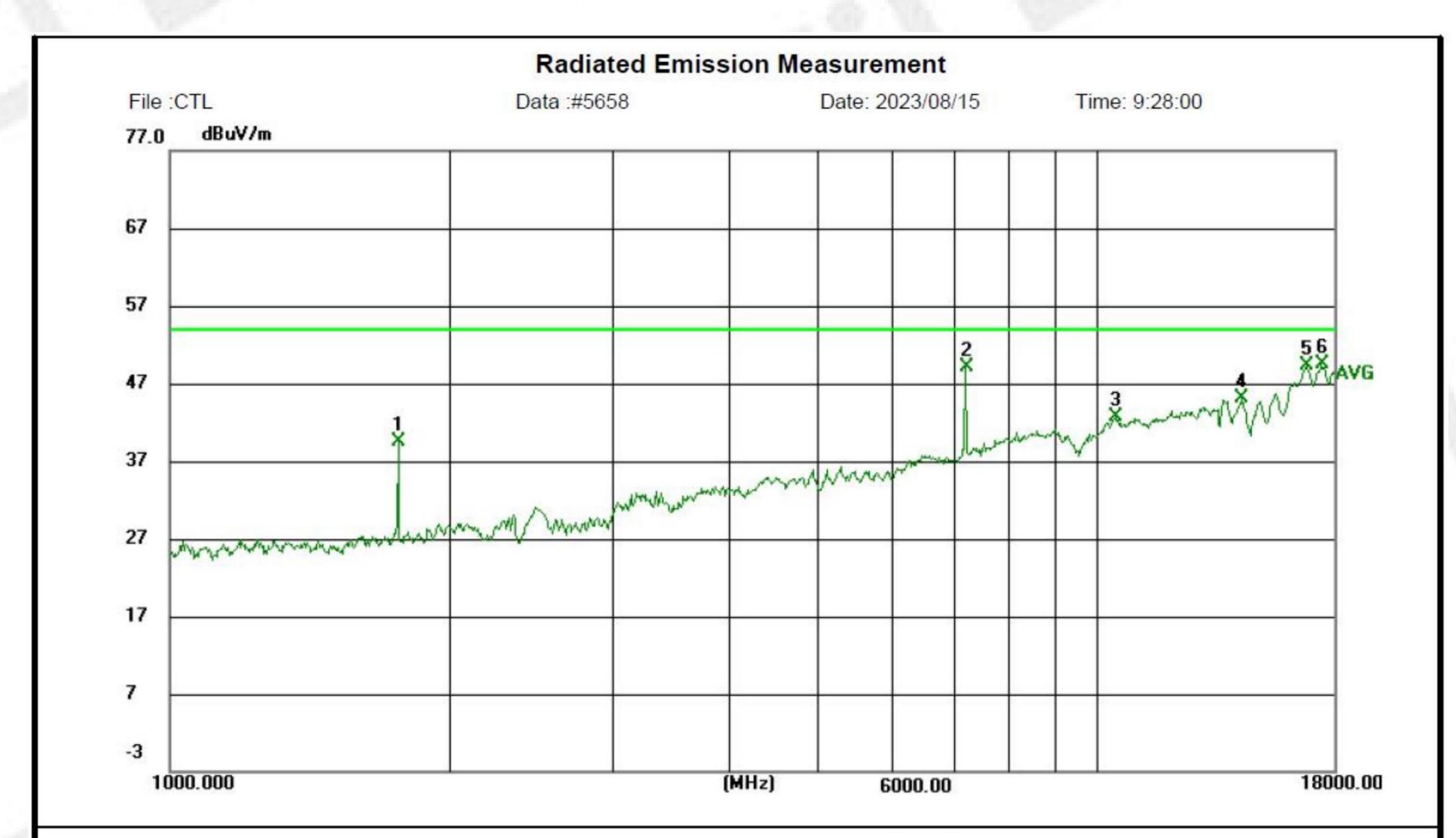
Polarization: Horizontal

AC 120V/60Hz

Temperature:

Humidity:

25(C)



Site LAB Chamber 2

Limit: FCC Part 15 B Class B_1-18GHz 3m

EUT: / Distance: 3m

M/N: PT07

Mode: WORKING

Note: /

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1762.112	44.89	-5.33	39.56	54.00	14.44	AVG	100	58	Р	
2	7200.309	39.17	9.87	49.04	54.00	4.96	AVG	100	315	Р	
3	10453.971	28.12	14.56	42.68	54.00	11.32	AVG	100	148	Р	
4	14325.374	28.19	16.87	45.06	54.00	8.94	AVG	100	122	Р	
5	16793.684	26.89	22.48	49.37	54.00	4.63	AVG	100	193	Р	
6	17436.709	26.50	22.97	49.47	54.00	4.53	AVG	100	46	Р	

Power:

Polarization: Vertical

AC 120V/60Hz

Temperature:

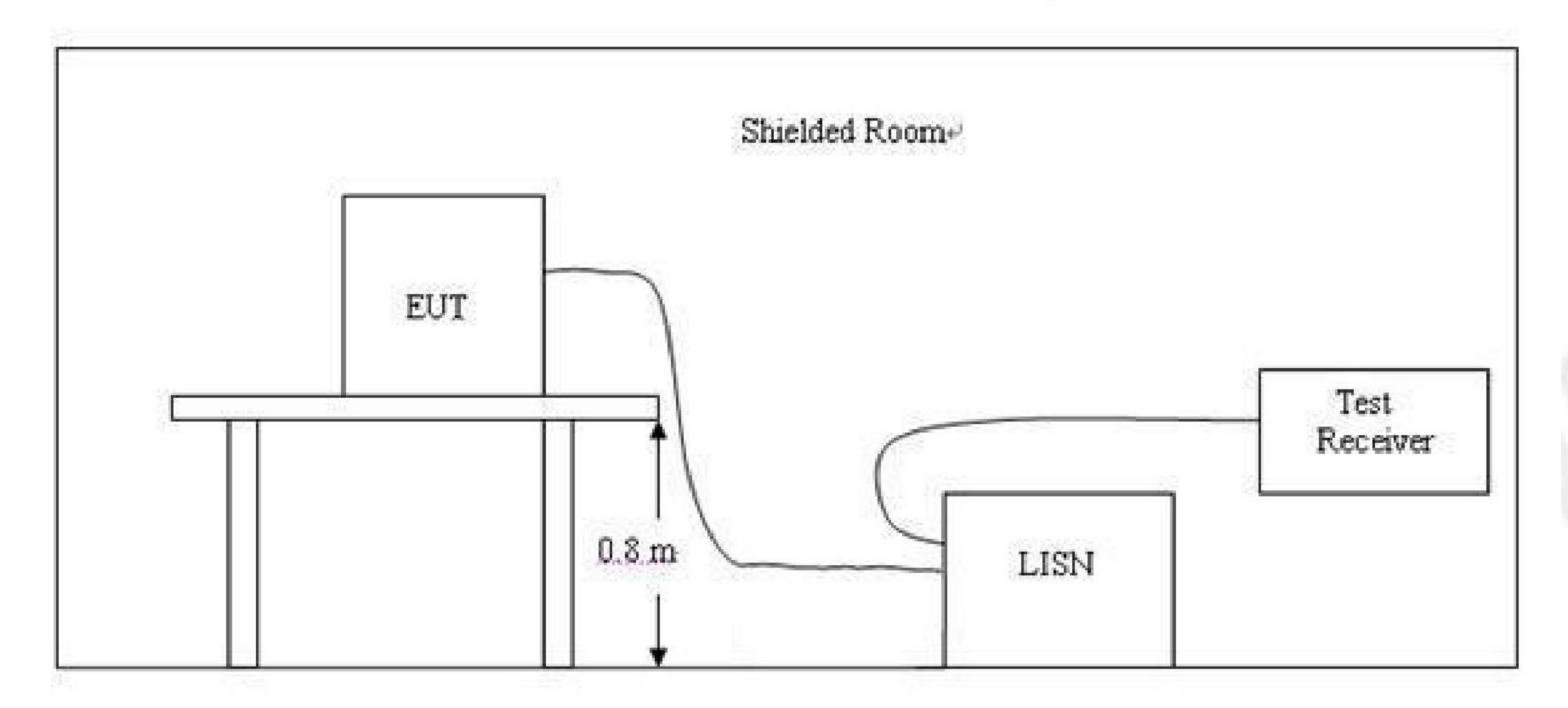
Humidity:

25(C)

V1.0 Page 17 of 22 Report No.: CTL2308102051-F

4.2. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

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

Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Every	Maximum RF Line Voltage (dBμV)								
Frequency (MHz)	CLAS	SS A	CLASS B						
	Q.P.	Ave.	Q.P.	Ave.					
0.15 - 0.50	79	66	66-56*	56-46*					
0.50 - 5.00	73	60	56	46					
5.00 - 30.0	73	60	60	50					

^{*} Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

TEST RESULTS

V1.0 Page 18 of 22 Report No.: CTL2308102051-F

Shenzhen CTL Testing Technology Co., Ltd.

Voltage Mains Test FCC PART 15 B

EUT: PT07
Manufacturer: /
Operating Condition: WORKING
Test Site: /
Operator: YCJ

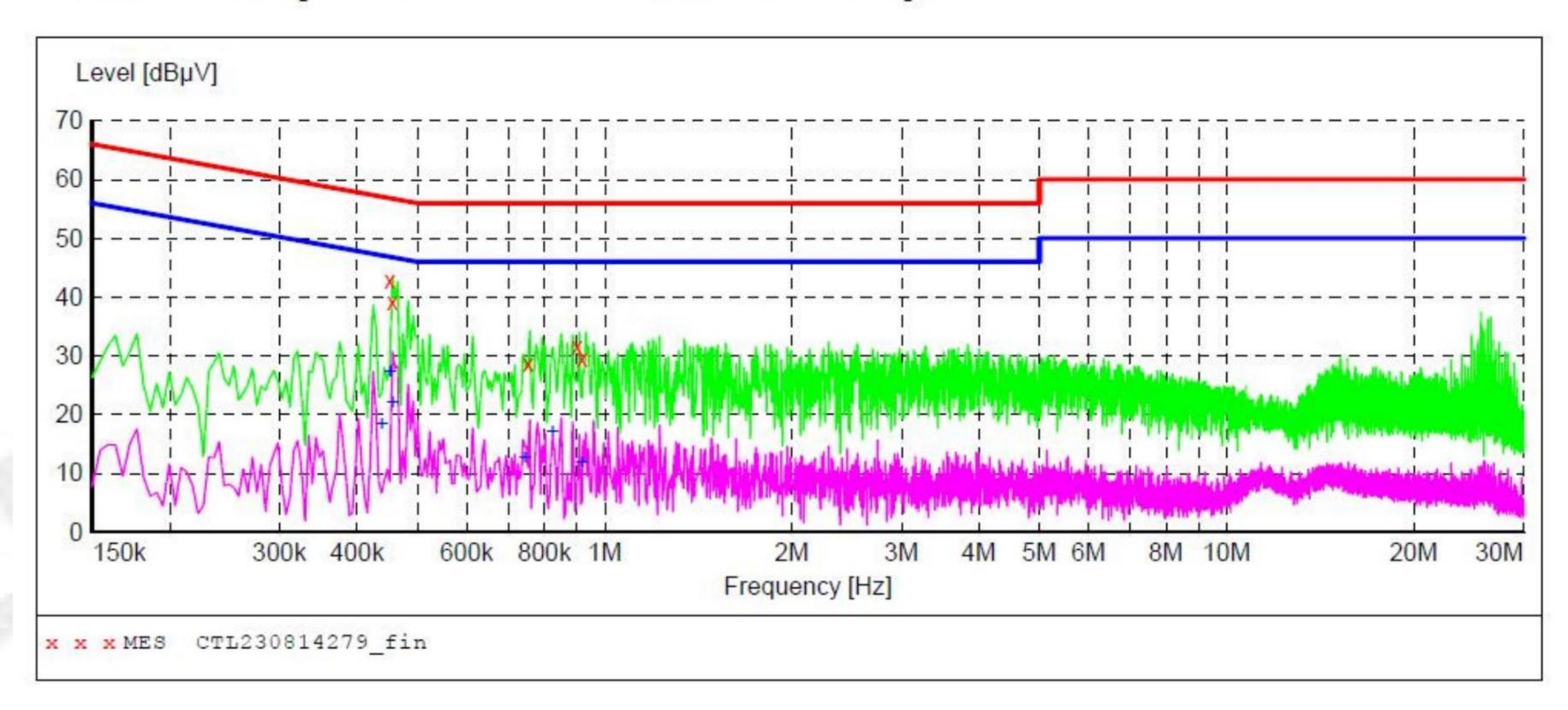
Test Specification: AC 120V/60Hz

Comment: /

Start of Test: 8/14/2023 / 7:22:05PM

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL230814279_fin"

8/14/2023 7:2	4 PM						
Frequency	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.451500	42.90	10.0	57	13.9	QP	N	GND
0.456000	39.10	10.0	57	17.7	QP	N	GND
0.753000	28.60	10.1	56	27.4	QP	N	GND
0.901500	31.50	10.1	56	24.5	QP	N	GND
0.919500	29.40	10.1	56	26.6	QP	N	GND

MEASUREMENT RESULT: "CTL230814279 fin2"

8/14/2023 7:2	24PM						
Frequency	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.438000	18.50	10.0	47	28.6	AV	N	GND
0.451500	27.30	10.0	47	19.5	AV	N	GND
0.456000	22.20	10.0	47	24.6	AV	N	GND
0.744000	12.70	10.1	46	33.3	AV	N	GND
0.825000	17.20	10.1	46	28.8	AV	N	GND
0.919500	11.90	10.1	46	34.1	AV	N	GND

V1.0 Page 19 of 22 Report No.: CTL2308102051-F

Shenzhen CTL Testing Technology Co., Ltd.

Voltage Mains Test FCC PART 15 B

EUT: PT07 Manufacturer: Operating Condition: WORKING

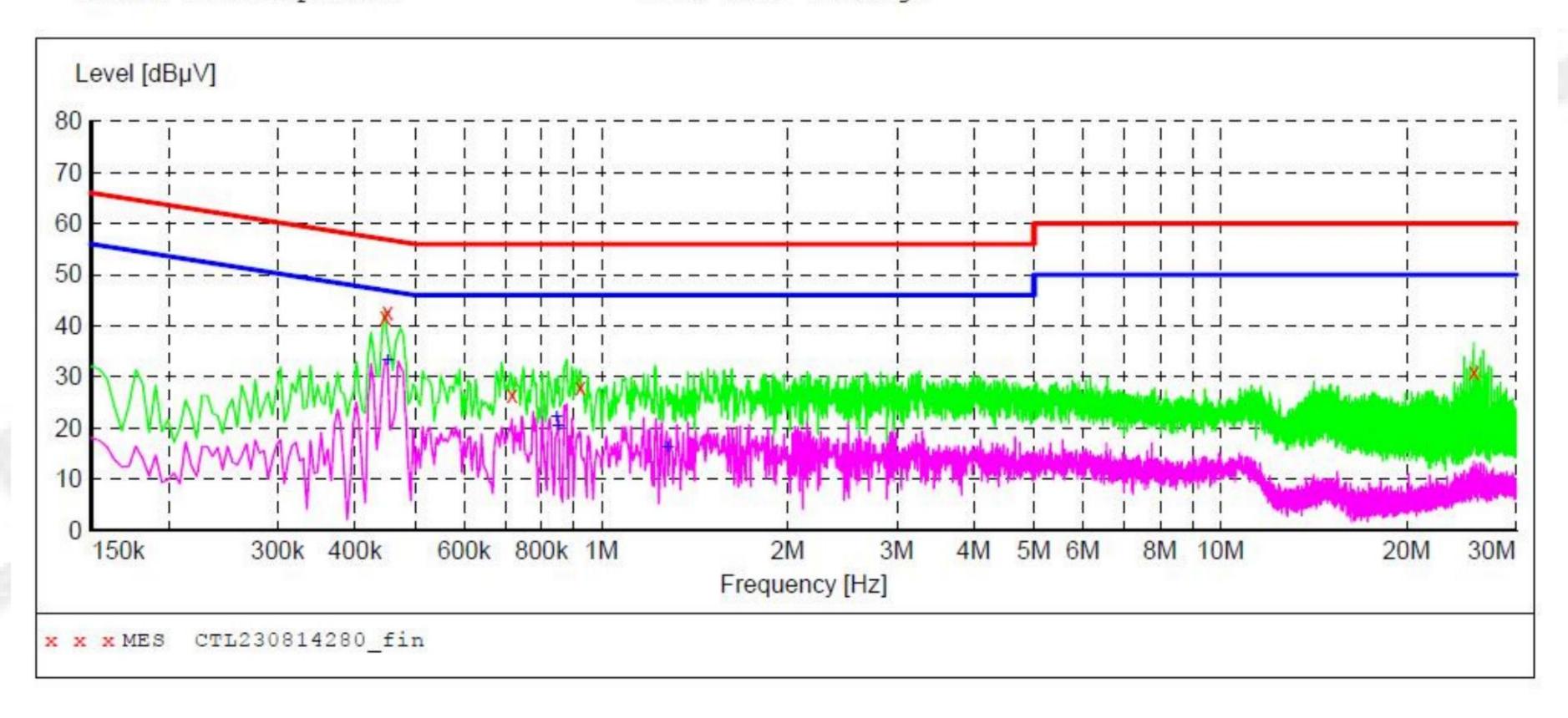
Test Site: Operator: YCJ

Test Specification: AC 120V/60Hz

Comment:

Start of Test: 8/14/2023 / 7:25:11PM

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL230814280 fin"

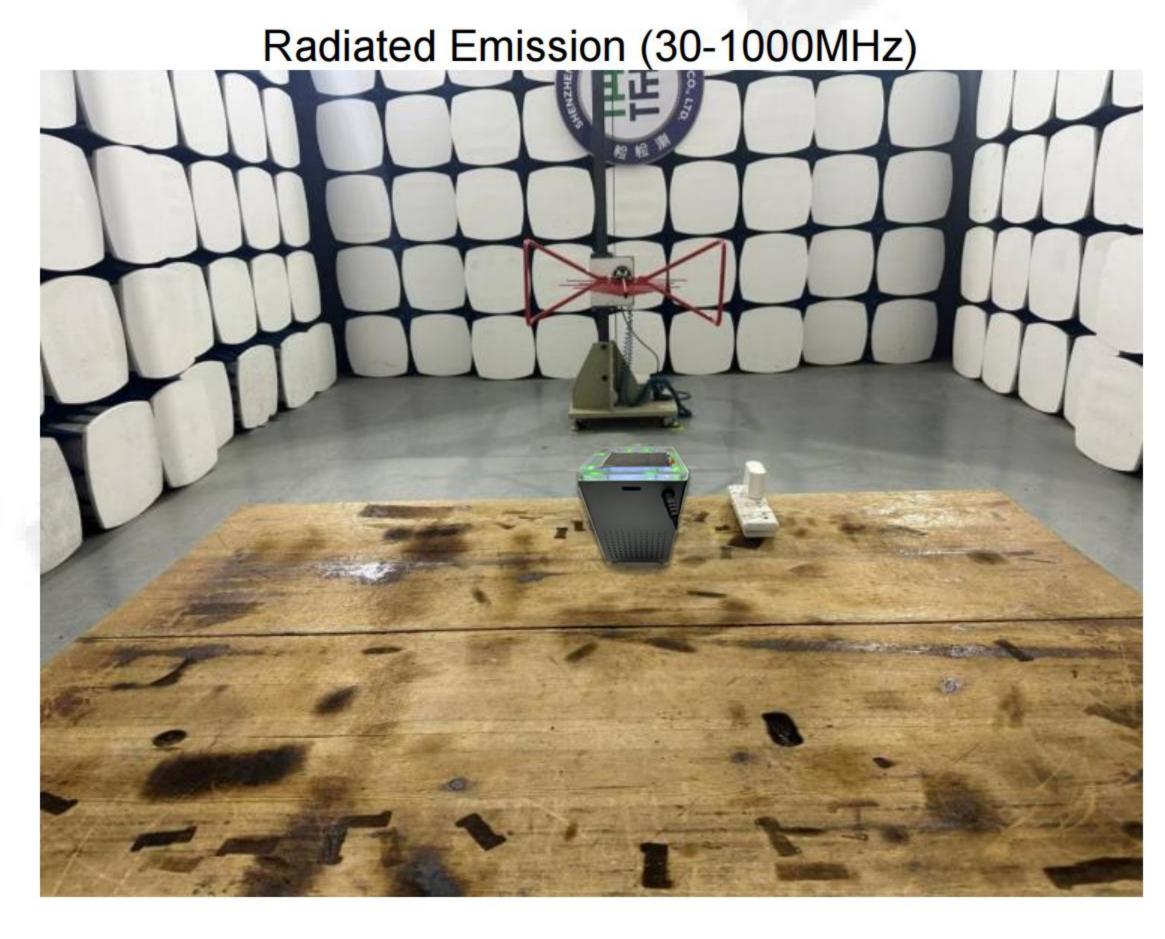
8/14/2023 7:2	7PM						
Frequency	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.447000	41.80	10.0	57	15.1	QP	L1	GND
0.451500	42.80	10.0	57	14.0	QP	L1	GND
0.717000	26.60	10.1	56	29.4	QP	L1	GND
0.924000	27.90	10.1	56	28.1	QP	L1	GND
25.669500	30.90	11.5	60	29.1	QP	L1	GND

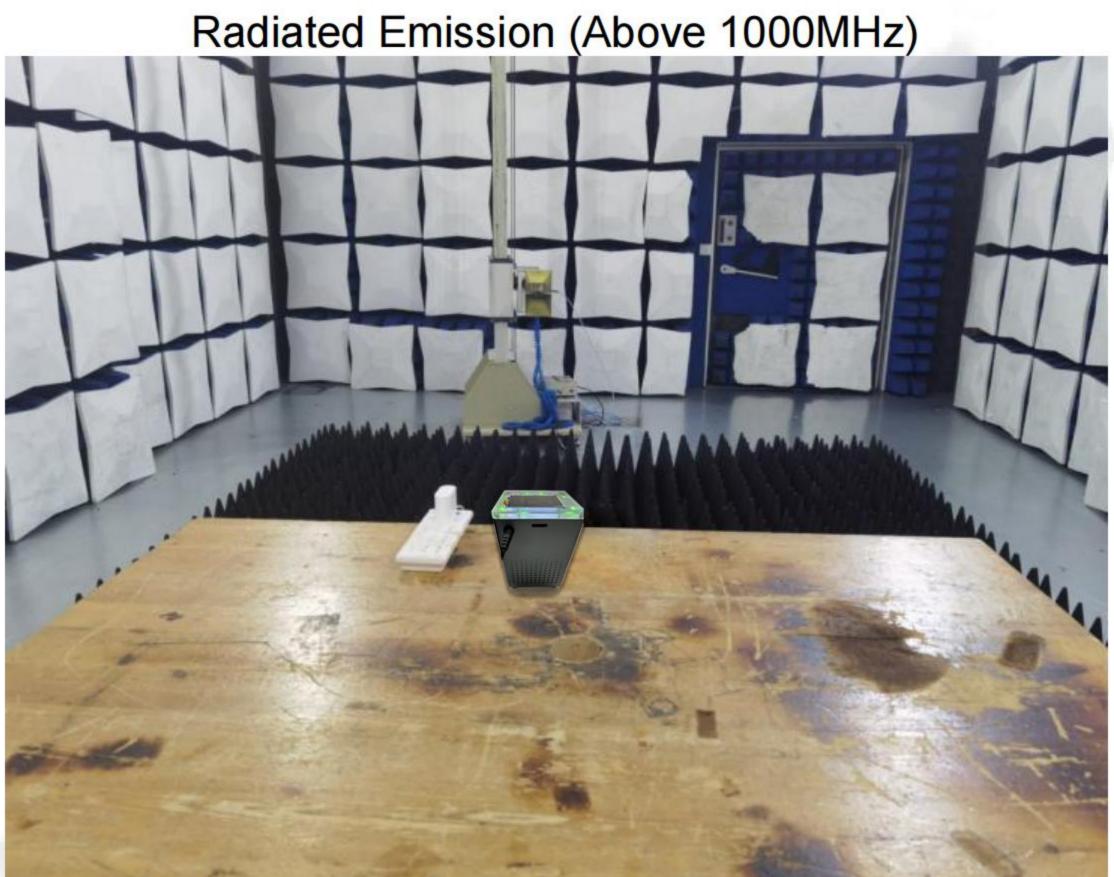
MEASUREMENT RESULT: "CTL230814280 fin2"

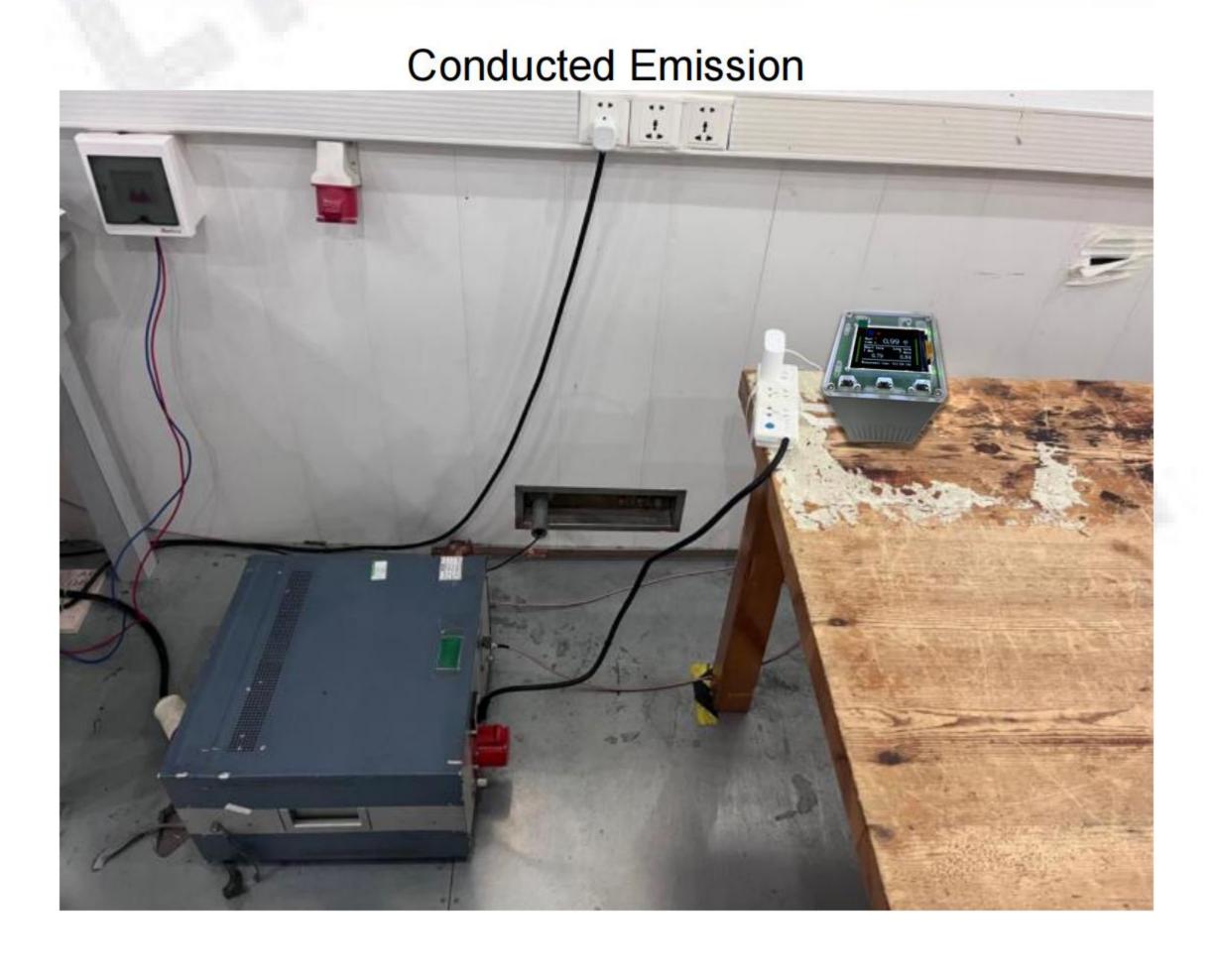
8/14/2023 7	:27PM						
Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.451500	33.30	10.0	47	13.5	AV	L1	GND
0.847500	22.20	10.1	46	23.8	AV	L1	GND
0.852000	20.60	10.1	46	25.4	AV	L1	GND
1.279500	16.30	10.2	46	29.7	AV	L1	GND

V1.0 Page 20 of 22 Report No.: CTL2308102051-F

5. Test Setup Photos of the EUT

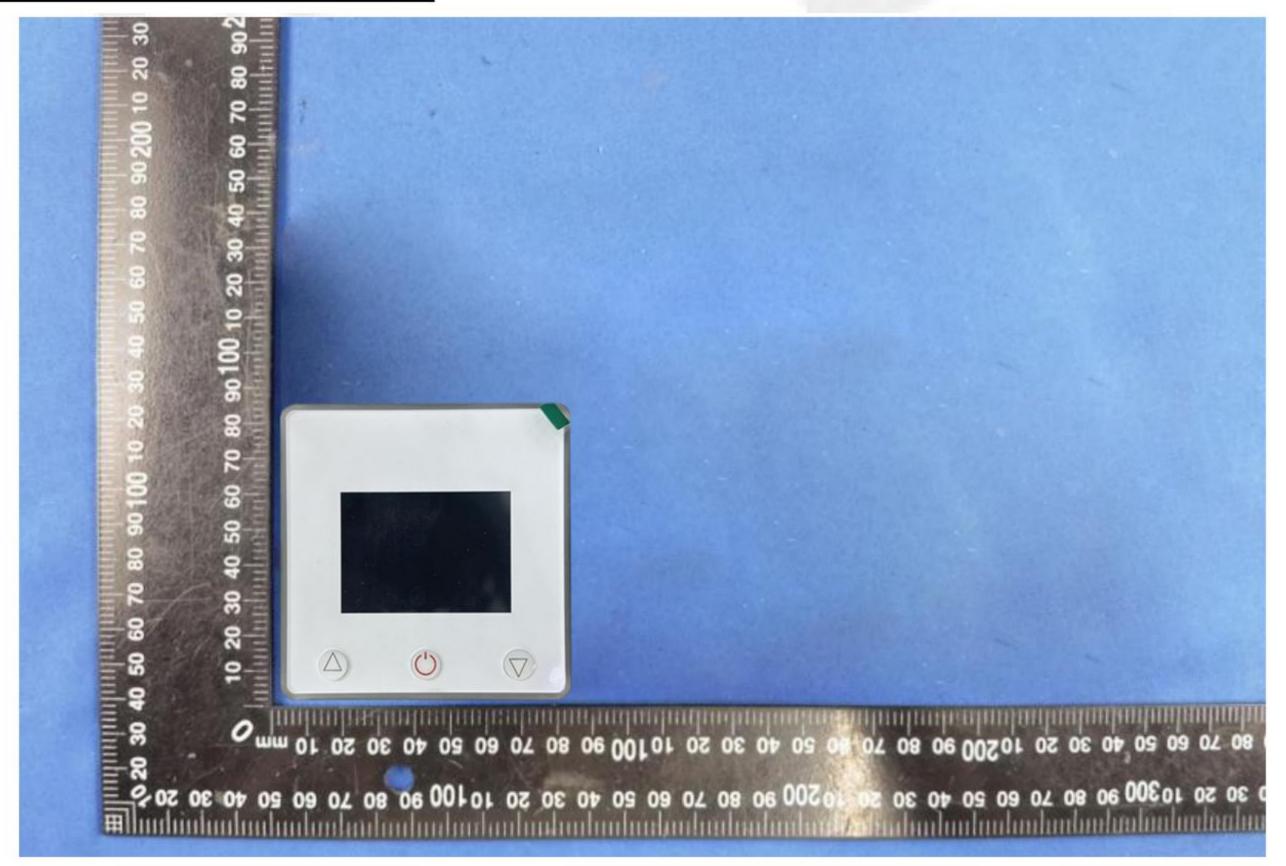


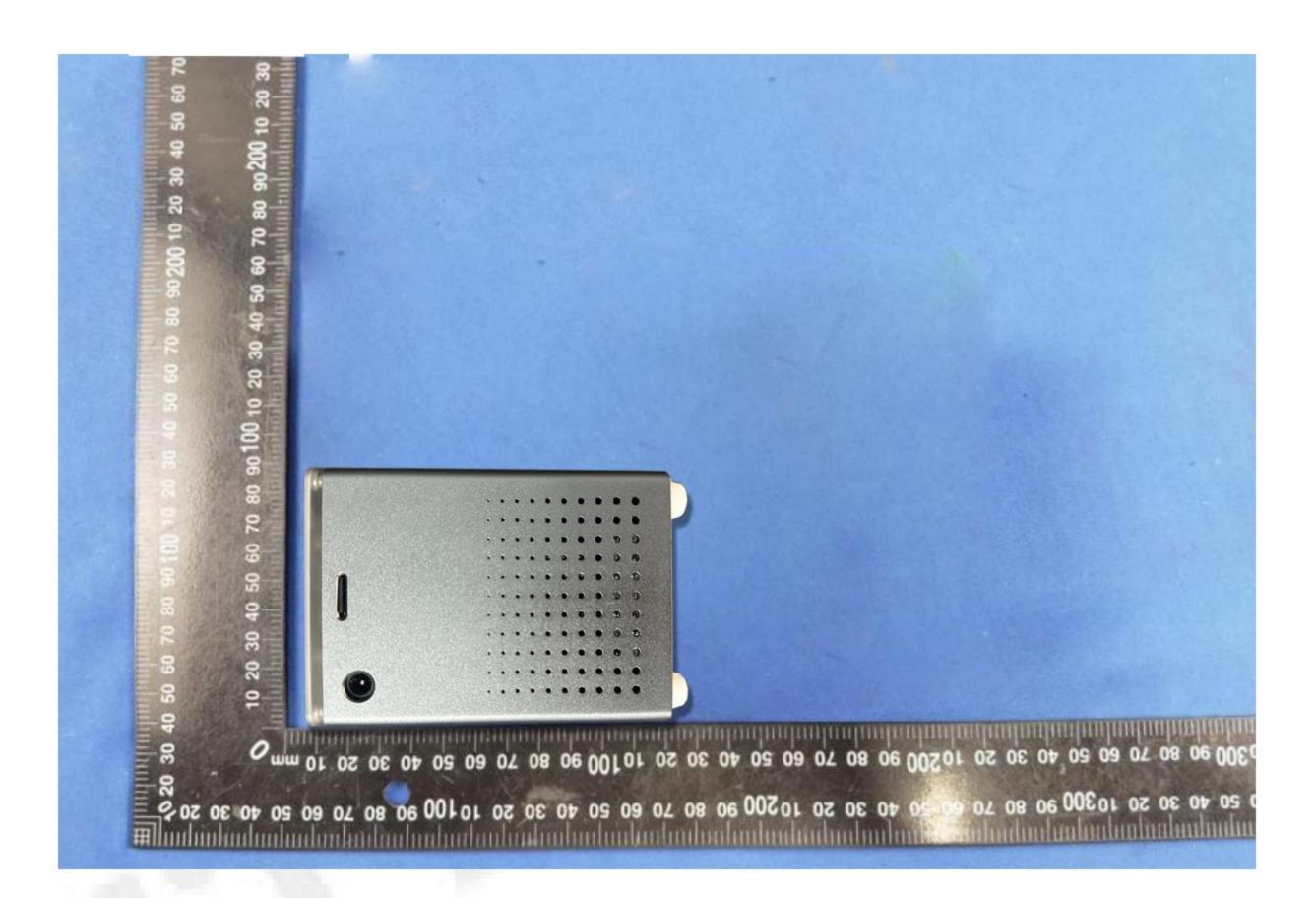




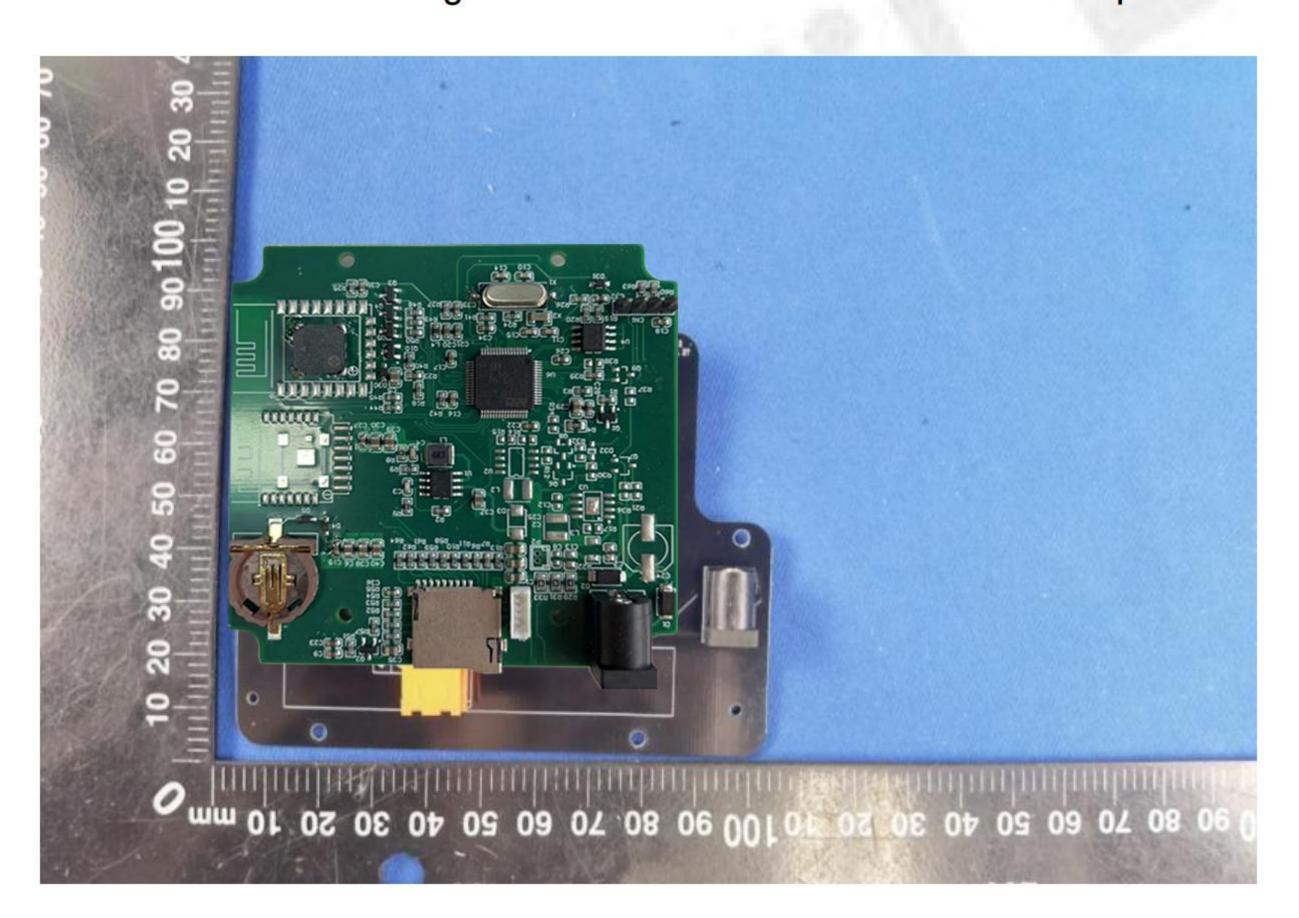
V1.0 Page 21 of 22 Report No.: CTL2308102051-F

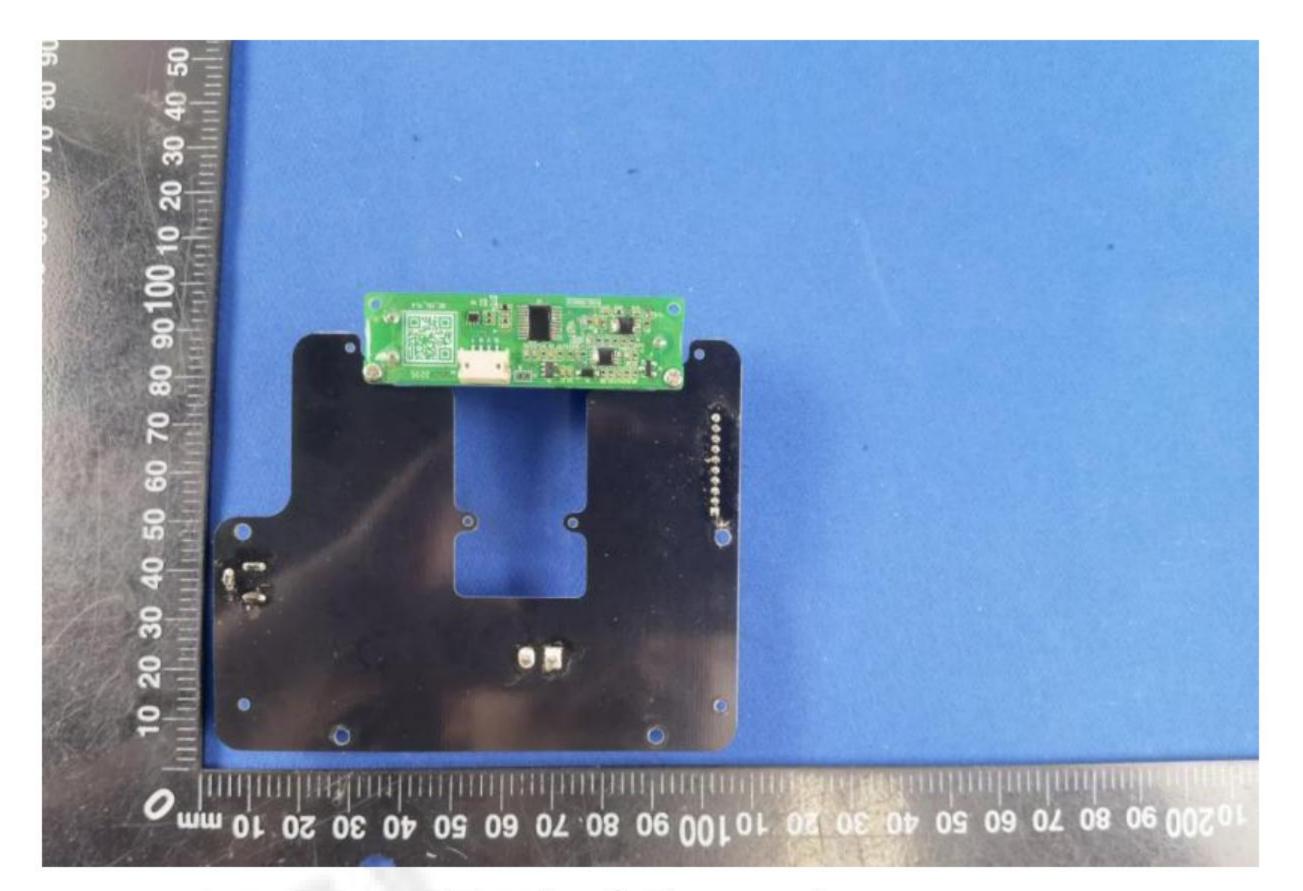
6. Photos of the EUT











.....End of Report.....