

TEST REPORT FOR CERTIFICATION

On Behalf of

IAdea Corporation

Room Booking Panel

Model No.: IAD-18010H

FCC ID: Y9E-IAD-18010H

Prepared for : IAdea Corporation

3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114
Taiwan

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F23025-2

Date of Test : May.11~Jun.05, 2025

Date of Report : Jun.27, 2025

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Appendix A. Photograph of Test

Appendix B. Photo of the EUT

TEST REPORT

Applicant : IAdea Corporation
Manufacture : IAdea Corporation
EUT Description : Room Booking Panel
FCC ID : Y9E-IAD-18010H
(A) Model No. : IAD-18010H
(B) Test Voltage : AC 120V/60Hz

Tested for comply with:
FCC CFR 47 Part 15 Subpart C

Test procedure used:
ANSI C63.10:2020+COR1:2023

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : May.11~Jun.05, 2025 Date of Report: Jun.27, 2025

Prepared by : Dora Yang Reviewer by : Thomas Chen
Dora Yang / Assistant Thomas Chen / Assistant Manager



Approved & Authorized Signer : Signature: Sunny Lu
Sunny Lu / Manager

Modified History

Edition No.	Revision	Issue Date	Report No.
Original	Initial issue of report	Mar.16, 2023	ACS-F23025
Rev.01	Add Panel	Oct.25, 2023	ACS-F23025-1
Rev.02	Add Panel	Jun.27, 2025	ACS-F23025-2

- Note: 1. This report is based on report of ACS-F23025 & ACS-F23025-1.
2. This report is an additional version with original report number ACS-F23025 & ACS-F23025-1. The differences with original report please see the above table of Rev.02.
3. Through the evaluation of the above differences, all test items need to be re-conducted.

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10:2020+COR1:2023	PASS
Radiated Emission Test	FCC Part 15: 15.205, 15.209 ANSI C63.10:2020+COR1:2023	PASS
20dB Bandwidth Test	FCC Part 15: 15.215	PASS
Note: N/A is mean Not Application		
Note: Measurement uncertainty affection to the result is not considered, the EUT is technically compliant with standard requirements.		

2. GENERAL INFORMATION

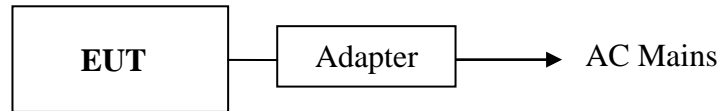
2.1. Description of Equipment Under Test

Applicant	IAdea Corporation
Applicant Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Manufacturer	IAdea Corporation
Manufacturer Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Product	Room Booking Panel
Model No.	IAD-18010H
FCC ID	Y9E-IAD-18010H
Radio	NFC
Operation Frequency	125kHz
Type of Modulation	ASK
AC Adapter	Manufacturer: Asian Power Devices Inc. Model No.: WB-24J12R Input: 100-240V~50-60Hz, 0.7A Max Output: DC 12V, 2.0A, 24W DC Cable: Unshielded, Undetachable, 1.8m(with one core)
Sample Type	Prototype production
Date of Receipt	Apr.23, 2025
Date of Test	May.11~Jun.05, 2025

2.2. Tested Supporting System Details

N/A

2.3. Block diagram of connection between the EUT and simulators



(EUT: Room Booking Panel)

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Certificated by ISED, Canada
Company Number: 5183A
CAB identifier: CN0034
Valid Date: Mar.31, 2026

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2026

Certificated by FCC, USA
Designation No: CN5022
Valid Date: Aug.03, 2025

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	$\pm 2.6\text{dB}$ (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: H)
	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: V)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: H)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: V)
Uncertainty for Svswr in 3m Chamber	1~6GHz, Distance: 3m
	6~18GHz, Distance: 3m
Uncertainty for radiated spurious emission at frequency below 30MHz	$\pm 2.6\text{dB}$ (9kHz~30MHz)
Uncertainty for Frequency range test	$\pm 2.0 \times 10^{-7}$
Uncertainty for Bandwidth test	$\pm 4.6\%$
Uncertainty for DC power test	$\pm 0.1\%$
Uncertainty for test site temperature and humidity	$\pm 0.6^{\circ}\text{C}$
	$\pm 3\%$

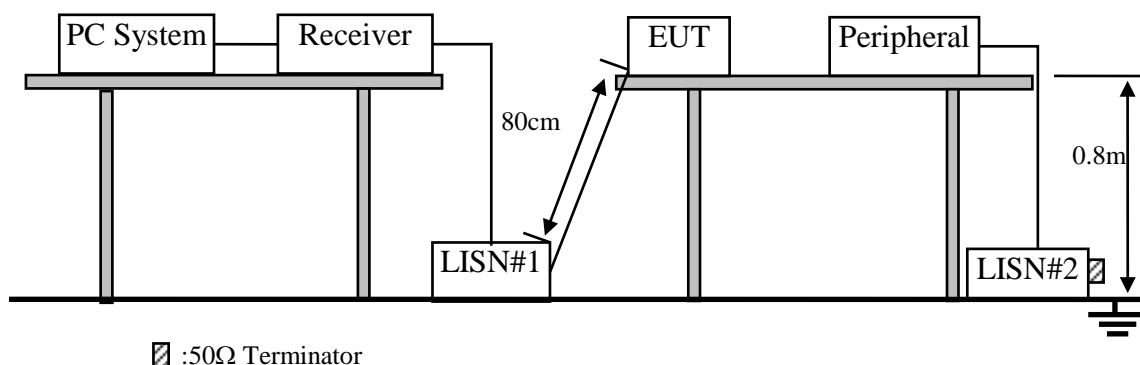
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Nov.09,22	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Mar.10,25	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Jun.19,24	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	Mar.10,25	1 Year
5.	RF Cable	Eastsheep	KTR-141FE P-50	2501002	Jan.15,25	1 Year
6.	Terminator	Hubersuhner	50Ω	No.1	Mar.10,25	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

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

- Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.
3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB) + Reading (Receiver) (dBμV)

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Room Booking Panel (EUT)

Model No. : IAD-18010H
Serial No. : N/A

3.4.2.Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.2.

3.5.2.Turn on the power of all equipments.

3.5.3.PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

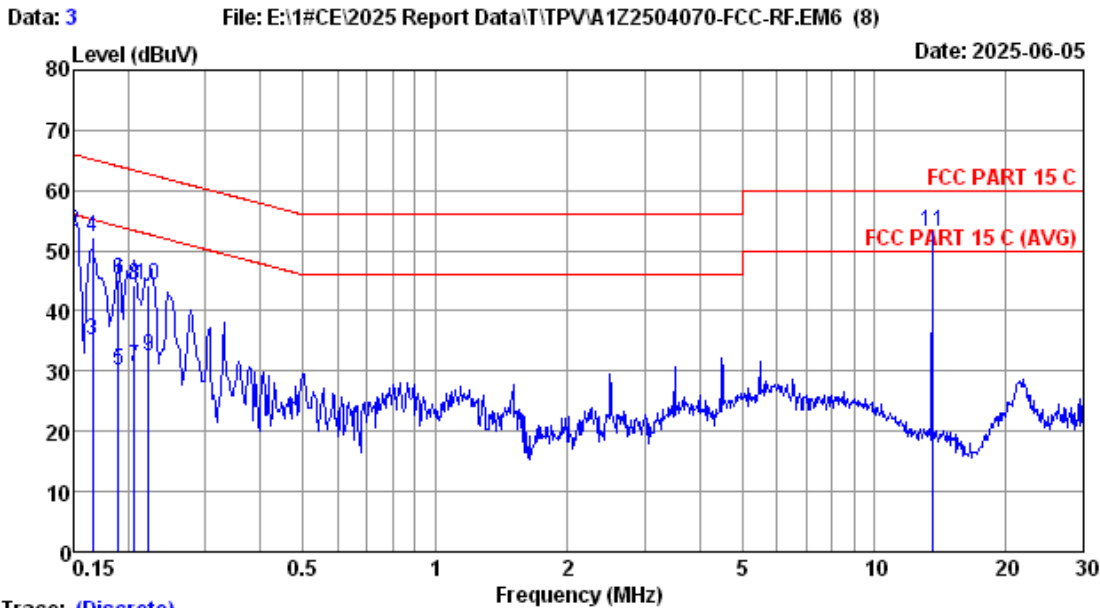
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7.Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

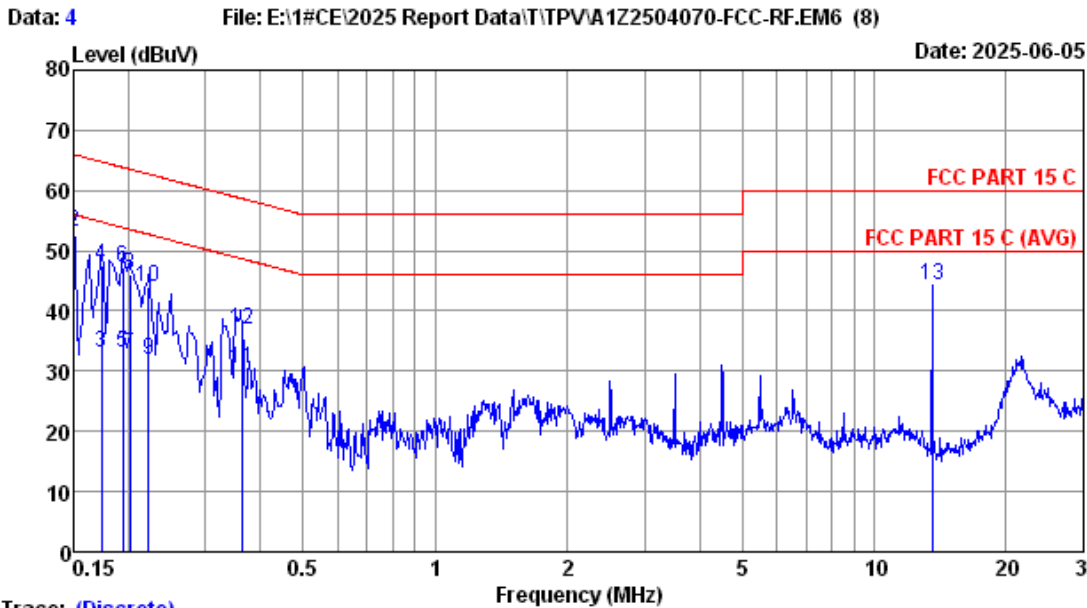


Trace: (Discrete)

Site no :1# CE Data No :3
 Dis./Lisn :2024 ENV216-N
 Limit :FCC PART 15 C
 Env./Ins. :24.5°C/51% Engineer :Hongjie
 Power Rating :
 Test Mode :NFC TX Mode(125KHz)

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.76	0.01	26.50	36.27	56.00	19.73	Average
2	0.150	9.76	0.01	43.50	53.27	66.00	12.73	QP
3	0.166	9.77	0.01	25.23	35.01	55.16	20.15	Average
4	0.166	9.77	0.01	42.35	52.13	65.16	13.03	QP
5	0.190	9.78	0.01	20.23	30.02	54.04	24.02	Average
6	0.190	9.78	0.01	35.35	45.14	64.04	18.90	QP
7	0.206	9.78	0.01	20.80	30.59	53.37	22.78	Average
8	0.206	9.78	0.01	34.35	44.14	63.37	19.23	QP
9	0.222	9.78	0.01	22.70	32.49	52.74	20.25	Average
10	0.222	9.78	0.01	34.50	44.29	62.74	18.45	QP
11	13.551	9.89	0.06	43.28	53.23	60.00	6.77	NFC

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1# CE Data No :4
 Dis./Lisn :2024 ENV216-L
 Limit :FCC PART 15 C
 Env./Ins. :24.5°C/51% Engineer :Hongjie
 Power Rating :
 Test Mode :NFC TX Mode(125KHz)

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.77	0.01	24.80	34.58	56.00	21.42	Average
2	0.150	9.77	0.01	43.30	53.08	66.00	12.92	QP
3	0.174	9.77	0.01	23.36	33.14	54.77	21.63	Average
4	0.174	9.77	0.01	37.85	47.63	64.77	17.14	QP
5	0.194	9.76	0.01	23.35	33.12	53.86	20.74	Average
6	0.194	9.76	0.01	37.60	47.37	63.86	16.49	QP
7	0.202	9.76	0.01	23.00	32.77	53.53	20.76	Average
8	0.202	9.76	0.01	36.25	46.02	63.53	17.51	QP
9	0.222	9.76	0.01	22.23	32.00	52.74	20.74	Average
10	0.222	9.76	0.01	34.25	44.02	62.74	18.72	QP
11	0.362	9.76	0.01	20.78	30.55	48.68	18.13	Average
12	0.362	9.76	0.01	27.10	36.87	58.68	21.81	QP
13	13.551	9.87	0.06	34.38	44.31	60.00	15.69	NFC

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipments

Frequency Range: 30-1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	3Year
2.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.07,24	1 Year
4.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	01313	Sep.26,24	1 Year
5.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3+190411	Sep.13,24	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6201397223	Mar.10,25	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR3	101931	Mar.10,25	1 Year
8.	Amplifier	HP	8447D	2944A11159	Mar.10,25	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

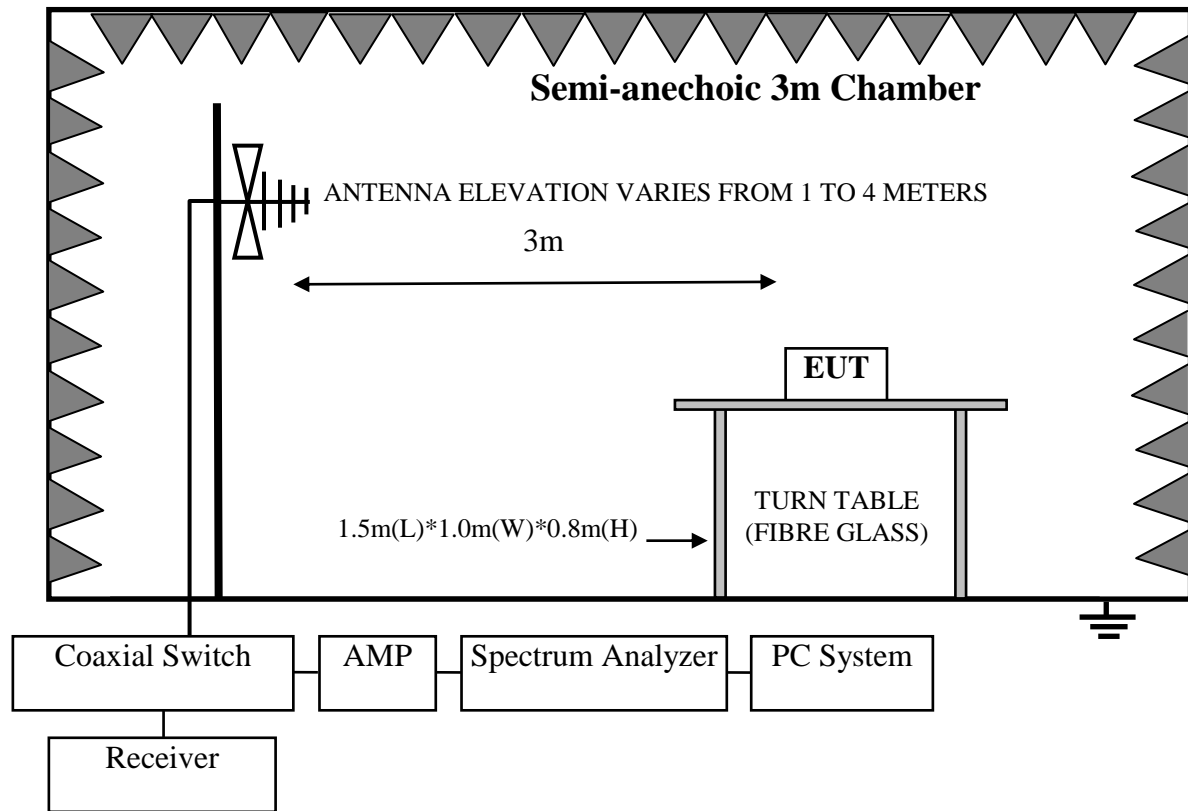
Frequency Range: 1.705-30MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber(NSA)	AUDIX	N/A	N/A	Aug.12,22	3Year
2.	10m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
3.	Active Receive Loop Antenna	SCHWARZBECK	FMZB 1513-60B	00035	Mar.10,25	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR3	102891	Sep.15,24	1 Year
5.	RF Cable	EMCI	EMCCFD400-NM-N M-2500	No.4+190413	Mar.10,25	1 Year
6.	Amplifier	EM	EM101	060952	Mar.10,25	1 Year
7.	Signal Analyzer	Rohde & Schwarz	FSV30	103669	Sep.15,24	1 Year
8.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

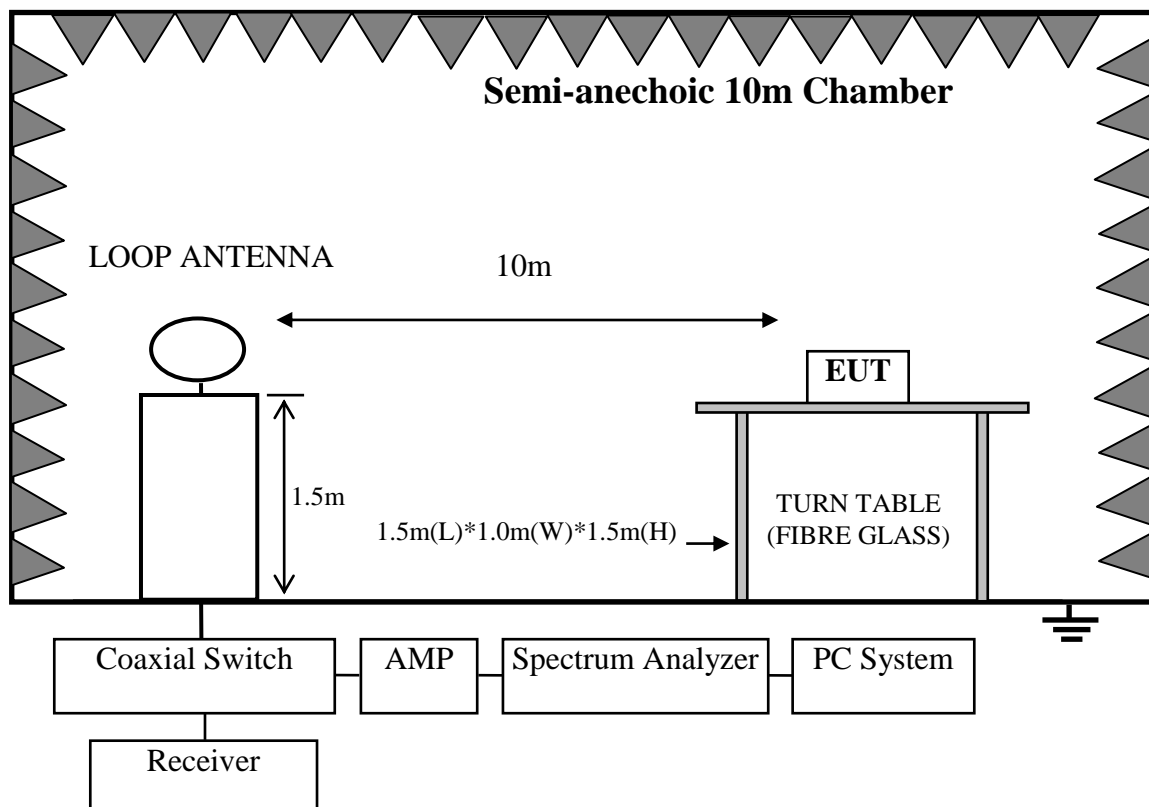
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

Frequency Range: 30-1000MHz



Frequency Range: Below 30MHz



4.3. Radiated Emission Limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Remark: (1) Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Receiver) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) + Cable Loss (dB)

Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Spectrum) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(above 1000MHz)

(2) The smaller limits shall apply at the cross point between two frequency bands.

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

Radiated emission Limit(Below 30MHz)

Frequency (MHz)	Field strength (microvolts/meter)	Measurement Distance(meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/f(KHz)	30
1.705-30.0	30	30

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) In the emission table above, the tighter limit applies at the band edges.

(3) The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 10 meters, the limit is translated to 10 meters by using a formula as follows: $\text{Limit}_{10\text{m}} = \text{Limit}_{30\text{m}} + 40\log(30\text{m}/10\text{m})$ or $\text{Limit}_{10\text{m}} = \text{Limit}_{300\text{m}} + 40\log(300\text{m}/10\text{m})$

4.4. 15.205 Restricted bands of operation

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)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.5. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.6. Operating Condition of EUT

4.6.1. Setup the EUT as shown in Section 4.2.

4.6.2. Turn on the power of all equipments.

4.6.3. Let the EUT worked in test mode (Tx Mode) and tested it.

4.7. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found and reported.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

For emissions below 30MHz:

This test was performed on anechoic chamber with a conductive ground plane, EUT was put to 1.5m high turn table and at a distance of 10m from test antenna.

4.8. Radiated Emission Test Results

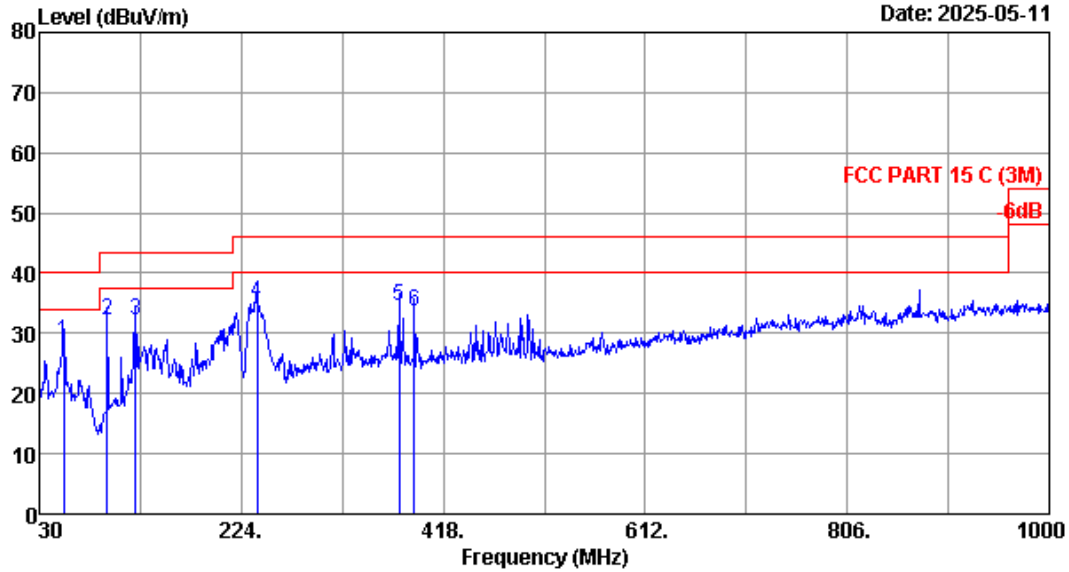
PASS.

Frequency Range: 30-1000MHz

Data: 1

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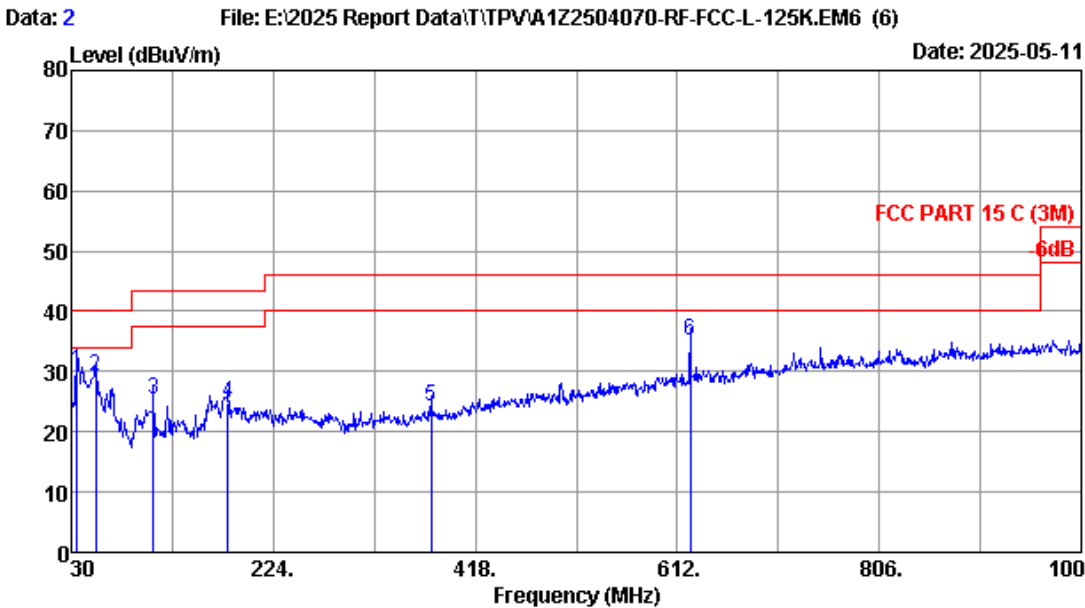
Date: 2025-05-11



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2024 VULB 9168-01313 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.3°C/50% Engineer : Abel
 Test Mode : 125KHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	53.280	19.90	0.85	7.89	28.64	40.00	11.36	QP
2	94.990	14.50	1.11	16.53	32.14	43.50	11.36	QP
3	122.150	17.11	1.22	13.83	32.16	43.50	11.34	QP
4	239.520	17.37	1.80	15.84	35.01	46.00	10.99	QP
5	375.320	21.30	2.63	10.66	34.59	46.00	11.41	QP
6	389.870	21.20	2.73	9.69	33.62	46.00	12.38	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2024 VULB 9168-01313 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.3°C/50% Engineer : Abel
 Test Mode : 125KHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	35.820	18.70	0.72	10.84	30.26	40.00	9.74	QP
2	53.280	19.90	0.85	8.44	29.19	40.00	10.81	QP
3	108.570	15.76	1.15	8.46	25.37	43.50	18.13	QP
4	180.350	17.57	1.51	5.78	24.86	43.50	18.64	QP
5	375.320	21.30	2.63	0.13	24.06	46.00	21.94	QP
6	624.610	26.20	3.76	5.10	35.06	46.00	10.94	QP

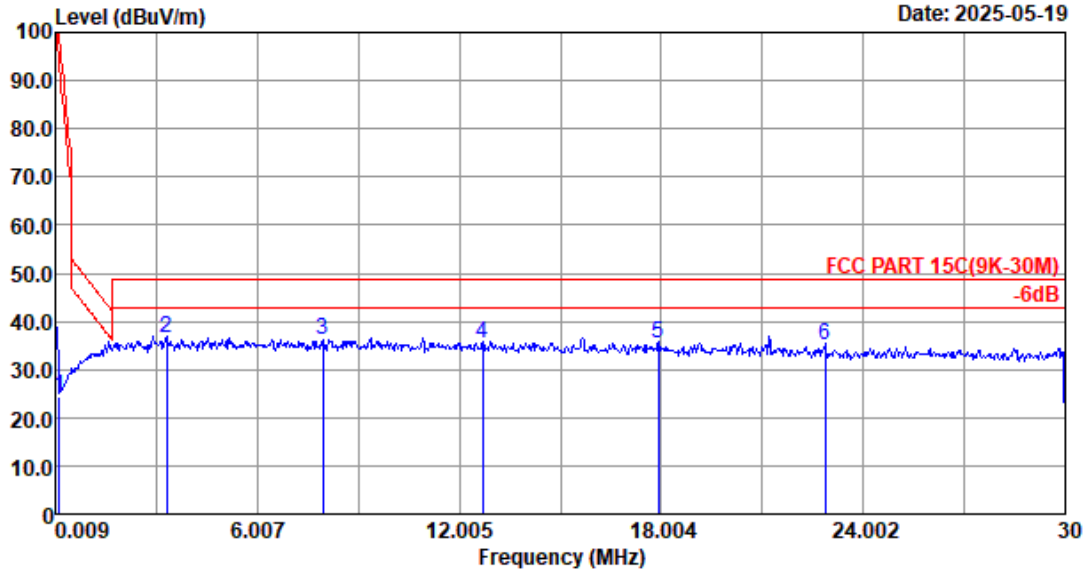
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency Range: Below 30MHz

Data: 2

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Date: 2025-05-19



Site no. : 10m Chamber
Dis. / Ant. : 10m 2025-LOOP ANT 10
Limit : FCC PART 15C(9K-30M)
Env. / Ins. : 23.1°C/57%
Power rating :
EUT : AC 230V/50Hz
Test Mode : NFC TX Mode
Data no. : 2
Ant. pol. : VERTICAL
Engineer : Hongjie

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.125	20.15	0.04	4.18	24.37	99.23	74.86	QP
2	3.308	20.20	0.29	15.86	36.35	48.63	12.28	QP
3	7.957	20.50	0.46	15.03	35.99	48.63	12.64	QP
4	12.695	20.40	0.56	14.56	35.52	48.63	13.11	QP
5	17.914	20.52	0.63	14.41	35.56	48.63	13.07	QP
6	22.862	20.66	0.71	13.78	35.15	48.63	13.48	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

5. 20 DB BANDWIDTH TEST

5.1. Test Equipments

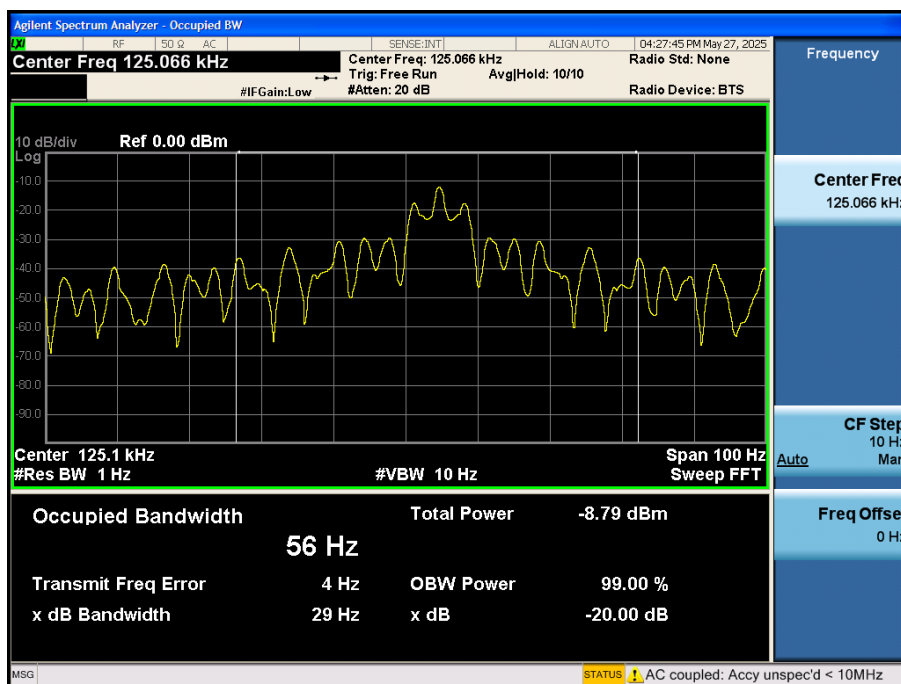
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Mar.10,25	1Year
2.	RF Cable	eastsheep	141-SMA-JJ-1000	NO.1	Jun.19,24	1Year

5.2.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.

5.3. Test Results

EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date: 2025-05-27	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: Carl	Test site: RF site	Temperature: 22.3±0.6℃
Frequency (KHz)	20dB bandwidth (Hz)	Limit (KHz)
125	29	N/A
Conclusion : PASS		



6. DEVIATION TO TEST SPECIFICATIONS

[NONE]