FCC Test Report

Report No: WD-RF-R-240378-C0

Product Name	:	RFID Reader
Model Name	:	MP30TH-00
Series Model Name	:	MP30TR-00
FCC ID	:	WXAMP30T
Applicant	:	GIGA-TMS INC.
Received Date	:	Nov. 05, 2024
Tested Date	:	Dec. 16, 2024 ~ Dec. 27, 2024
Applicable Standard	:	47 CFR FCC Part 15, Subpart C (Section 15.31) 47 CFR FCC Part 2, Subpart J (Section 2.947(f)) ANSI C63.10 : 2013

Testing Laboratory
2965

Wendell Industrial Co., Ltd
Wendell EMC & RF Laboratory

Test Report

Issued Date: December 27, 2024

Project No.: 24Q102804

Product Name	RFID Reader
Trade Name	PROMAG
Model Name	MP30TH-00
Series Model Name	MP30TR-00
FCC ID	WXAMP30T
Applicant	GIGA-TMS INC.
Manufacturer	GIGA-TMS INC.
EUT Rated Voltage	USB 5V
EUT Test Voltage	USB 5V
EUT Supports Radios Application	RFID 13.56 MHz RFID 125 kHz
Applicable Standard	47 CFR FCC Part 15, Subpart C (Section 15.31) 47 CFR FCC Part 2, Subpart J (Section 2.947(f)) ANSI C63.10 : 2013
Test Result	Complied

Documented : Emma Lu

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Approved : Gary Wu

(Project Manager / Gary Wu)

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Document Revision History

Report No.	Issue date	Description
WD-RF-R-240378-C0	December 27, 2024	Initial report

Summary of Test Result

Ref. Std. Clause	Test Items	Result
15.247(d)	Radiated Spurious Emission	Pass
15.207	AC Conducted Emission	Pass

1 Generation Information

1.1 Applicant

GIGA-TMS INC.
8F, NO.31, LANE 169, KANG-NING ST.,HSI-CHIH, NEW TAIPEI CITY, 22180 TAIWAN

1.2 Manufacturer

GIGA-TMS INC.
8F, NO.31, LANE 169, KANG-NING ST.,HSI-CHIH, NEW TAIPEI CITY, 22180 TAIWAN

1.3 Description of Equipment under Test

Product Name	RFID Reader
Model No.	MP30TH-00
Series Model No.	MP30TR-00
Model Difference	MP30TH-00：TH = USB port, 00 = 125kHz+13.56MHz MP30TR-00：TR = RS232 port, 00 = 125kHz+13.56MHz
FCC ID	WXAMP30T
Frequency Range	13.56 MHz 125 kHz
Type of Modulation	13.56 MHz：ASK 125 kHz：ASK
Antenna Information	Refer to the table “Antenna List”
EUT Supports Radios Application	RFID 13.56 MHz RFID 125 kHz
EUT Rated Voltage	USB 5V
EUT Test Voltage	USB 5V

Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain	Remark
1	GIGA-TMS INC.	PCB-T445A	Loop Antenna	N/A	13.56 MHz
2	SZXLF	JJ-A-003	Loop Antenna	N/A	125 kHz

1.4 Test Mode Applicability

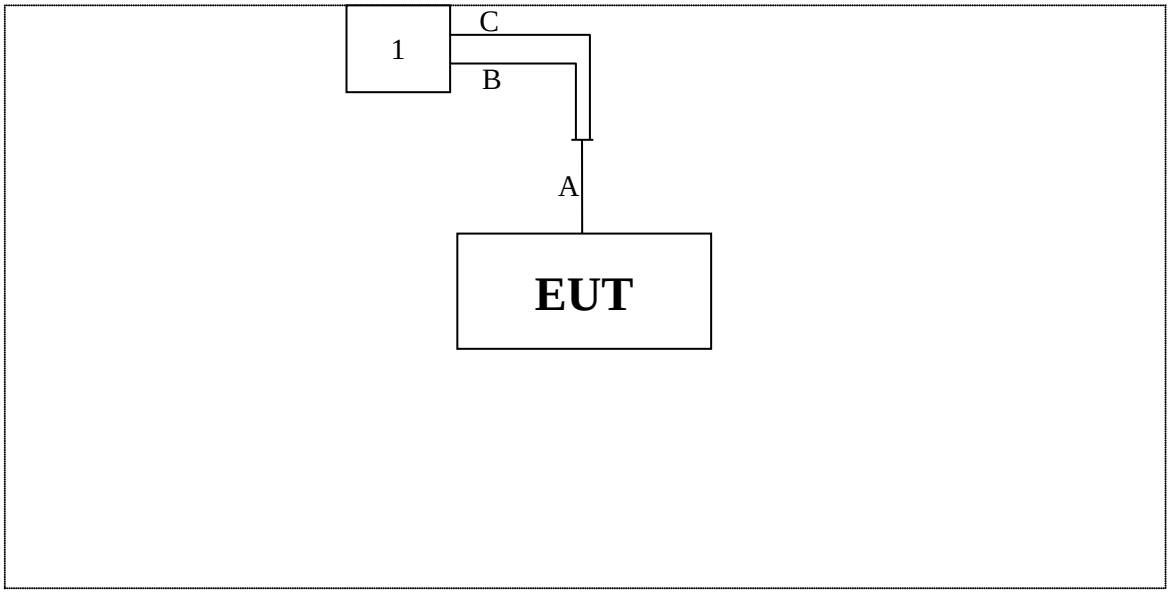
1. These tests were performed on equipment samples to demonstrate compliance with the 15.31(k) chapter simultaneous launch requirements.
2. Select the combination of the highest power transmission mode, only the worst case is shown in the report.
3. The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report.

Test Mode

Mode 1: RFID 13.56 MHz + RFID 125kHz

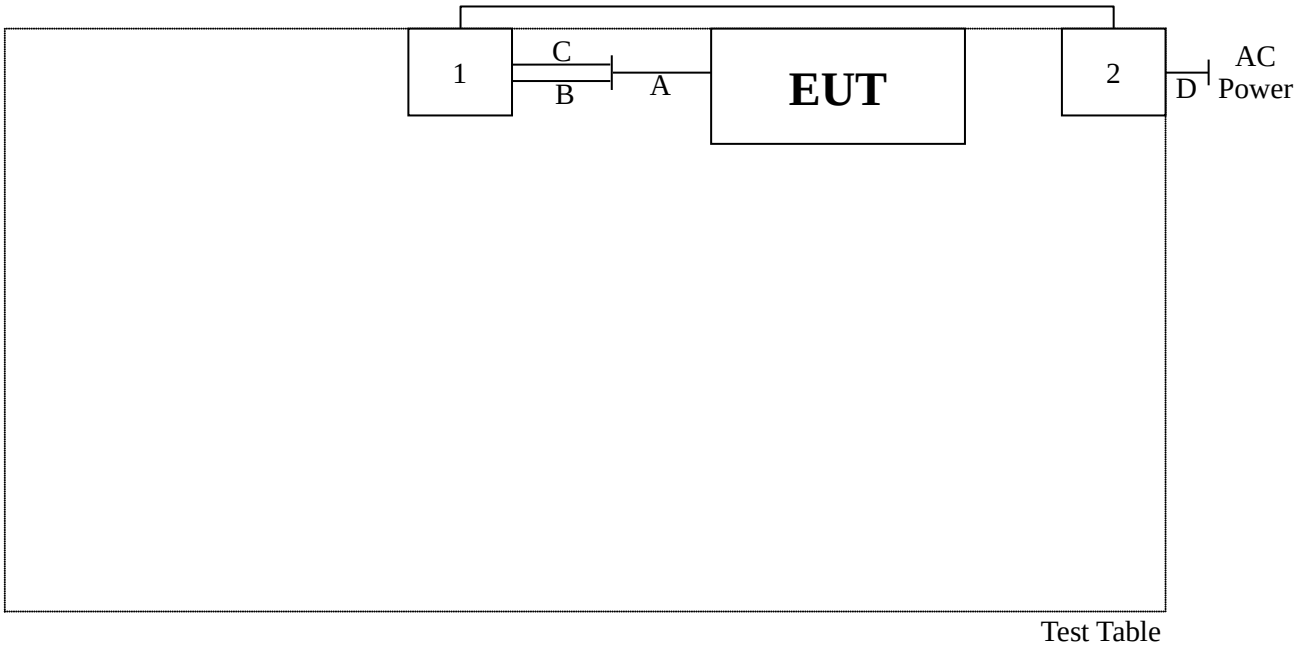
1.5 Configuration of Tested System

Radiation



Test Table

AC Conduction



Test Table

1.6 EUT Exercise Software

1. Setup the EUT as shown in Section 1.6
2. Configure the test mode, the test channel, and the data rate.
3. Press “OK” to start the continuous transmit.
4. Verify that the EUT works properly.

1.7 Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	acer	N16Q1	NXVD4TA023742254707600	N/A
2	Adapter	Acer	A13-045N2A	F262161724061099	Non-shielded, 1 Core, 1.5m

No.	Signal Cable Type	Signal cable Description
A	RS232 Cable	Non-shielded, Non-Core, 0.4m
B	RS232 to Type-A Cable	Shielded, Non-Core, 0.3m
C	USB Cable	Non-shielded, Non-Core, 1.5m
D	AC Power Cable	Non-shielded, Non-Core, 1m

Accessories:

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
A	RS232 Cable	EVERBIZ INDUSTRIAL CO., LTD.	WAS-T0625	N/A	Non-shielded, Non-Core, 0.4m
--	USB Cable	EVERBIZ INDUSTRIAL CO., LTD.	WAS-T0624	N/A	Non-shielded, Non-Core, 0.4m

1.8 Test Facility

Items	Required (IEC 60068-1)
Temperature (°C)	15-35
Humidity (% RH)	25-75
Barometric pressure (mbar)	860-1060

Description: Accredited by TAF
Accredited Number: 2965

Issued by: Wendell Industrial Co., Ltd

Company Address: 6F/6F-1, No.188, Baoqiao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan R.O.C

Test Lab: Wendell EMC & RF Laboratory

Lab Address: 5F-1, No.188, Baoqiao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan R.O.C

Test Location: No. 119, Wugong 3rd Rd., Wugu Dist.,
New Taipei City 248, Taiwan (R.O.C.)

Designation Number: TW0025

Test Firm Registration Number: 665221

1.9 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence (level based on a coverage factor K=2)

Measurement Project	Condition	Expended Uncertainty
AC Conducted Emission	0.150 ~ 30 MHz	± 2.64 dB
Radiated Emission	0.009 ~ 30 MHz	± 3.7 dB
	30 ~ 1000 MHz	± 3.9 dB
	1000 ~ 18000 MHz	± 4.5 dB
	18000 ~ 40000 MHz	± 4.3 dB
RF Power, Conducted	Conducted Measuring	± 0.75 dB
Occupied Bandwidth	Conducted Measuring	± 2.4 %
Power Density	Conducted Measuring	± 1.2 dB
Duty Cycle and Dwell Time	Conducted Measuring	± 0.9 %
Conducted Unwanted Emission Strength	Conducted Measuring	± 1.4 dB
DC Power Supply	--	± 0.062 ppm
Temperature	--	± 2.0 %
Humidity	--	± 0.55 °C

Note: Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

1.10 List of Test Equipment

For AC Conduction measurements / Conducted Room

Equipment		Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
✓	EMI Test Receiver	R&S	ESR3	102309	2024/06/21	2025/06/20
✓	2-Line V-Network LISN	R&S	ENV216	101185	2024/06/20	2025/06/19
✓	LISN	SCHWARZBECK	NSLK 8127RC	05028	2024/06/20	2025/06/19
✓	Transient Limiter	EM Electronics Corporation	EM-7600	857	2024/06/24	2025/06/23
✓	50ohm Cable	EMCI	EMCCFD300-BM-BM-5000	170612	2024/06/24	2025/06/23
✓	50 ohm terminal impedance	HUBER+SUHNER	50 ohm terminal impedance	CT-1-109-1	2024/06/20	2025/06/19

Remark:

1. All equipments are calibrated every one year.
2. The test instruments marked with "✓" are used to measure the final test results.
3. Test Software version: FARAD EZ-EMC Ver.EMC-CON 3A1

For Radiated measurements / 9x6x6 Semi Anechoic Room

Equipment		Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
✓	EMI Receiver	Keysight	N9038A	MY51210173	2024/08/21	2025/08/20
✓	Spectrum Analyzer	Keysight	N9010A	MY52220228	2024/08/19	2025/08/18
✓	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	00033	2024/05/02	2025/05/01
✓	TRILOG super broad Antenna	Schwarzbeck	VULB 9168	VULB 9168-700 & 20E03	2024/07/23	2025/07/22
✓	Horn Antenna	Schwarzbeck	BBHA 9120D	01767	2024/08/15	2025/08/14
✓	Horn Antenna	Schwarzbeck	BBHA 9170	703	2024/08/15	2025/08/14
✓	Pre-Amplifier	EMEC	EMC330	060774	2024/08/16	2025/08/15
✓	Pre-Amplifier	EMEC	EM01G18G	060648	2024/08/16	2025/08/15
✓	Pre-Amplifier	JPT	JPA0118-55-303K	1910001800055003	2024/08/20	2025/08/19
✓	Pre-Amplifier	EMCI	EMC184045SE	980515	2024/08/16	2025/08/15
✓	Cable	EMEC	EM-CB400	105060103	2024/08/21	2025/08/20
✓	Cable	EMEC	EM-CB400	105060102	2024/08/21	2025/08/20
✓	Cable	EMEC	EM-CB400	105060101	2024/08/21	2025/08/20
✓	RF Cable	HUBER+SUHNER	SF102	MY2752/2	2024/08/21	2025/08/20
✓	RF Cable	MVE	280280.LL266.1200	C90177C	2024/08/21	2025/08/20
✓	RF Cable	EMCI	EMC102-KM-KM-600	190646	2024/08/21	2025/08/20
✓	RF Cable	MVE	140140.LL404.700	B90014C	2024/08/21	2025/08/20
✓	RF Cable	MVE	140140.LL404.300	B90006C	2024/08/21	2025/08/20
✓	RF Filter	EMEC	BRF-2400-2500	002	2024/08/26	2026/08/25
✓	RF Filter	EMEC	BRF-5150-5350	104	2024/08/26	2026/08/25
✓	RF Filter	EMEC	BRF-5470-5725	092	2024/08/26	2026/08/25
✓	RF Filter	EMEC	BRF-5725-5875	091	2024/08/26	2026/08/25
✓	RF Filter	EMEC	HPF-2800	002	2024/08/26	2026/08/25
✓	RF Filter	EMEC	HPF-5850	059	2024/08/26	2026/08/25
	SMA Notch Filter	MVE	MFN-902.928.S1	190604001	2024/08/21	2026/08/20

Remark:

1. The equipments are calibrated every one year.
2. The Filter calibrated every two year.
3. The test instruments marked with "✓" are used to measure the final test results.
4. Test Software version: FARAD EZ-EMC Ver.WD-03A1-1

2 Test Result

2.1 Spurious Emission Measurement

2.1.1 Limit

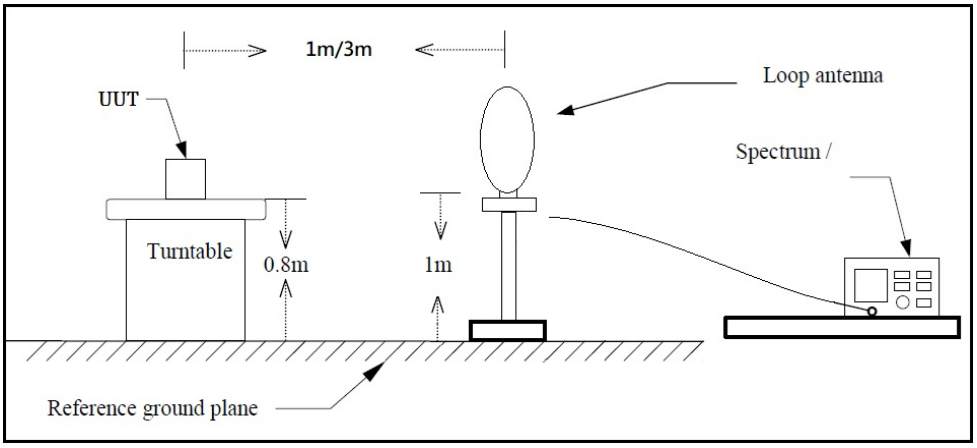
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Remarks:

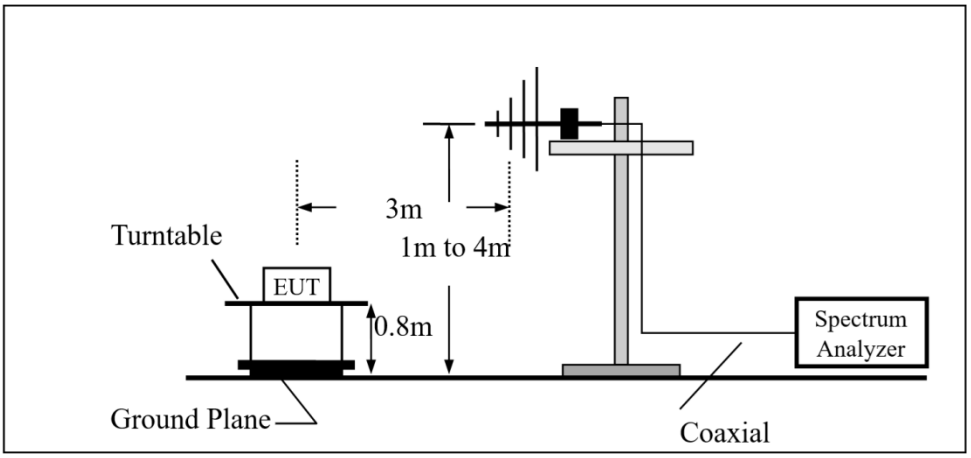
1. RF Voltage (dBuV) = 20 log RF Voltage(uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

2.1.2 Test Setup

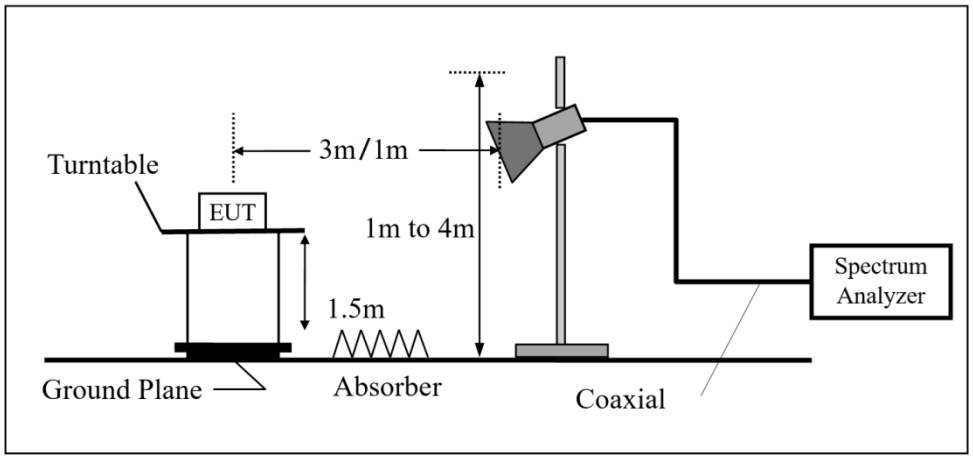
Below 30MHz



30MHz~1GHz



Above 1GHz



2.1.3 Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

For Radiated emission below 30MHz

(1) The EUT was placed on the top of a rotating table 0.8 meters above the ground in a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

(2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

(3) Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

(4) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

(5) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For Radiated emission Above 30MHz

(1) The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for the test. The table was rotated 360 degrees to determine the position of the highest radiation.

(2) The EUT was set 3 meters away from the interference-receiving antenna, the height of the antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength.

(3) Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

(4) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

(5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

(6) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets the average limit, measurement with the average detector is unnecessary.

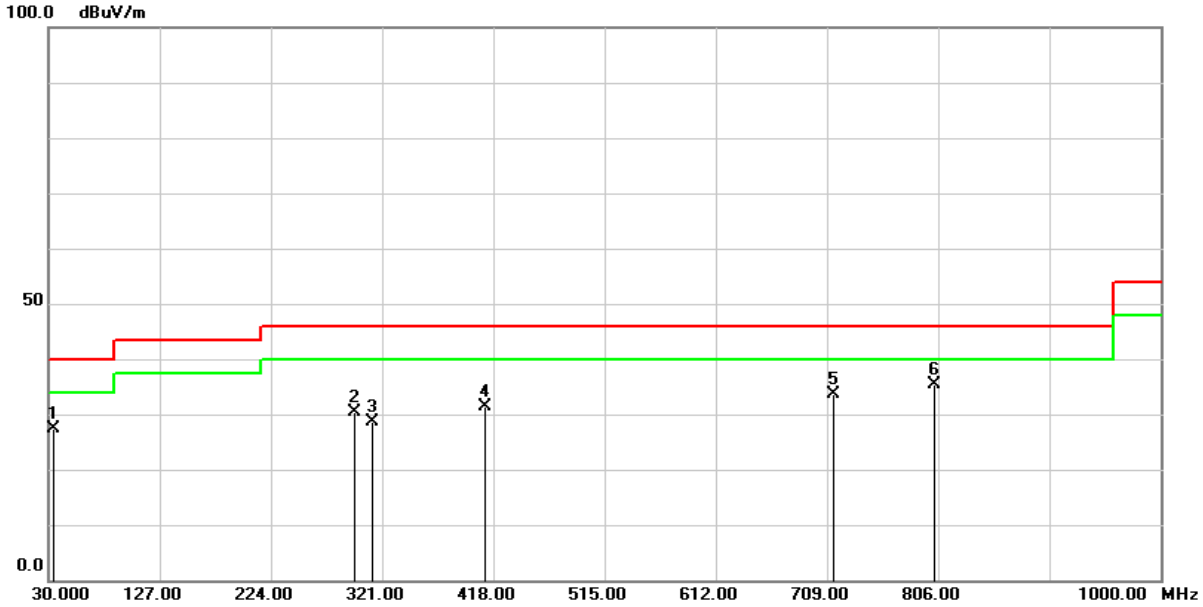
2.1.4 Test Result of Radiated Spurious Emission Measurement

(1) The radiation measurement frequency is 9kHz ~ 30MHz. The interference value of this frequency range is less than the limit value of 20 dB. It is considered that the background noise value is not recorded.

(2) The following table shows the radiation measurement frequency from 30MHz to 26.5G/40GHz, pre-scanning in the X, Y and Z axes. The worst case (X-axis) is documented in this report.

Above 1GHz Data

Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	Test Date :	2024/12/23
Test Voltage :	USB 5V	Temperature :	20.8 °C
Polarization :	Horizontal	Relative Humidity :	57 %

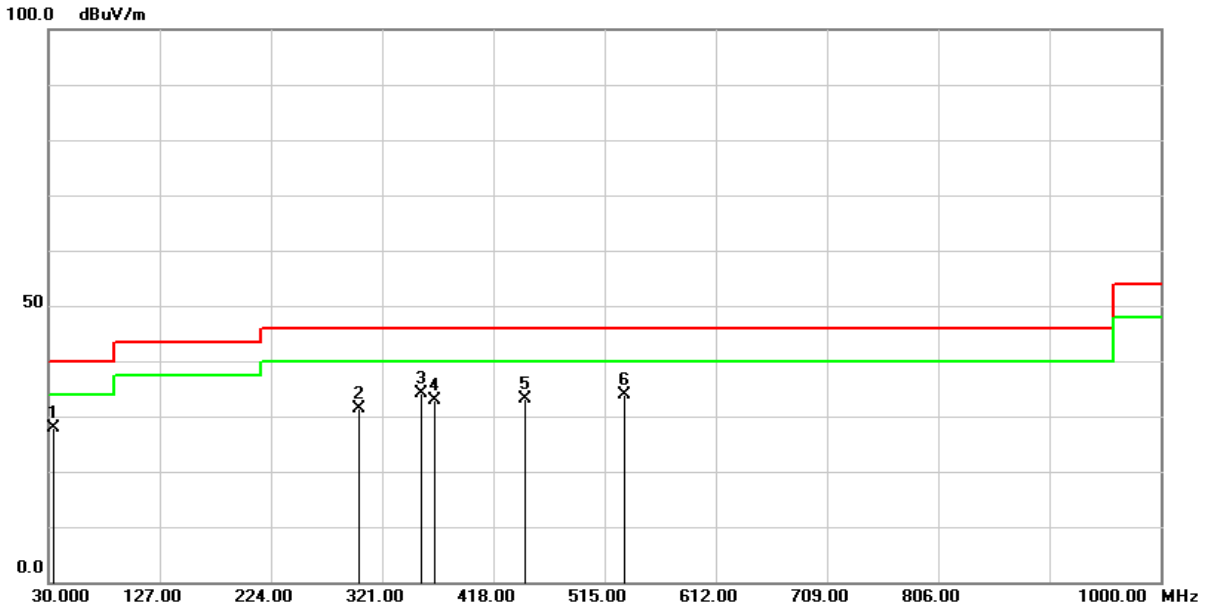


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	39.84	-12.56	27.28	40.00	-12.72	QP
2	296.7500	39.66	-9.30	30.36	46.00	-15.64	QP
3	312.2700	37.58	-8.84	28.74	46.00	-17.26	QP
4	411.2100	37.02	-5.73	31.29	46.00	-14.71	QP
5	714.8200	32.19	1.54	33.73	46.00	-12.27	QP
6	802.1200	32.20	3.25	35.45	46.00	-10.55	QP

Remark：

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	Test Date :	2024/12/23
Test Voltage :	USB 5V	Temperature :	20.8 °C
Polarization :	Vertical	Relative Humidity :	57 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	40.40	-12.56	27.84	40.00	-12.16	QP
2	300.6300	40.61	-9.15	31.46	46.00	-14.54	QP
3	354.9500	41.72	-7.63	34.09	46.00	-11.91	QP
4	366.5900	40.19	-7.29	32.90	46.00	-13.10	QP
5	445.1600	37.79	-4.57	33.22	46.00	-12.78	QP
6	532.4600	36.49	-2.70	33.79	46.00	-12.21	QP

Remark：

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Below 1GHz Data

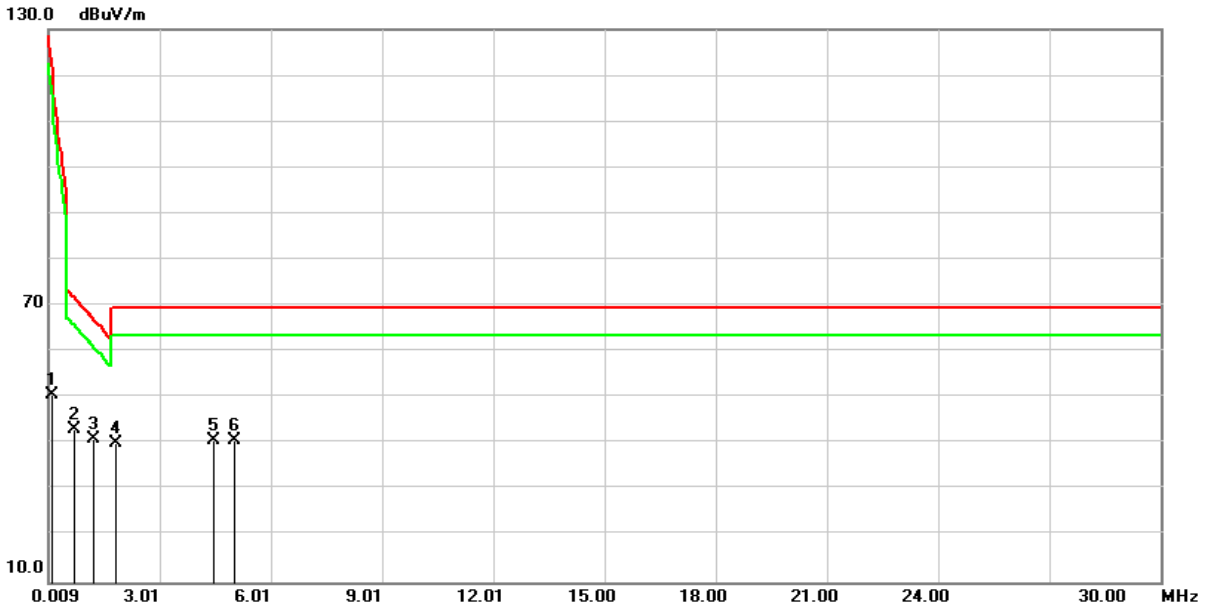
Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	Test Date :	2024/12/23
Test Voltage :	USB 5V	Temperature :	20.8 °C
Polarization :	Horizontal	Relative Humidity :	57 %

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1011	34.04	18.70	52.74	107.51	-54.77	QP
2	0.7470	23.01	19.37	42.38	70.14	-27.76	QP
3	1.5231	22.96	19.20	42.16	63.95	-21.79	QP
4	2.2694	21.09	19.15	40.24	69.54	-29.30	QP
5	5.8215	18.91	20.60	39.51	69.54	-30.03	QP
6	11.3430	19.29	21.36	40.65	69.54	-28.89	QP

Remark：

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	Test Date :	2024/12/23
Test Voltage :	USB 5V	Temperature :	20.8 °C
Polarization :	Vertical	Relative Humidity :	57 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0943	31.95	18.69	50.64	108.11	-57.47	QP
2	0.7171	23.70	19.34	43.04	70.49	-27.45	QP
3	1.1947	21.79	19.22	41.01	66.06	-25.05	QP
4	1.8216	20.86	19.18	40.04	69.54	-29.50	QP
5	4.4484	21.15	19.60	40.75	69.54	-28.79	QP
6	5.0450	20.91	19.73	40.64	69.54	-28.90	QP

Remark：

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

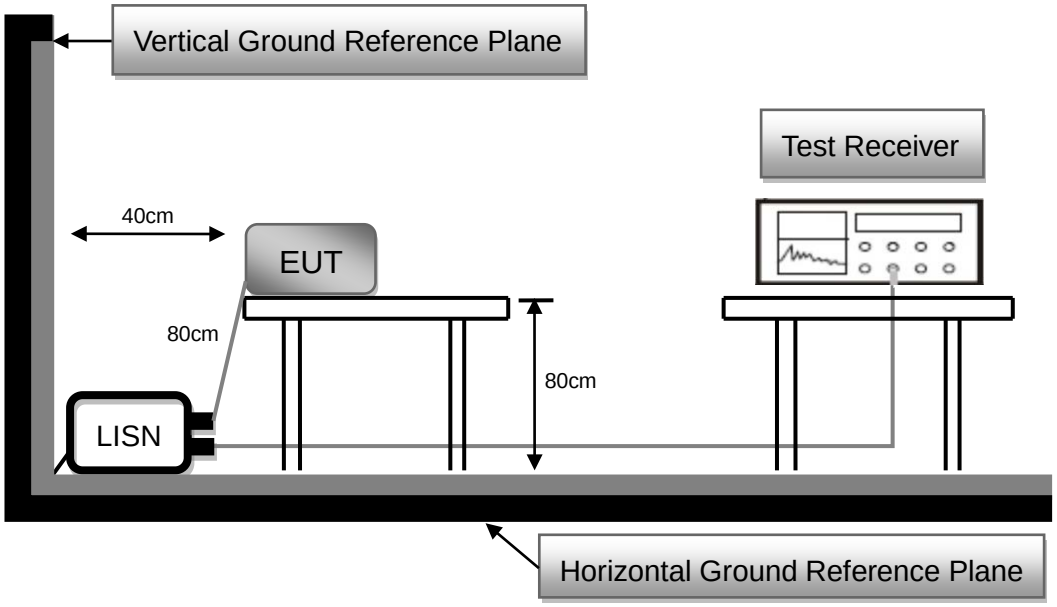
2.2 AC Conducted Emissions Measurement

2.2.1 Limit

Frequency (MHz)	FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

*Decreases with the logarithm of the frequency

2.2.2 Test Setup

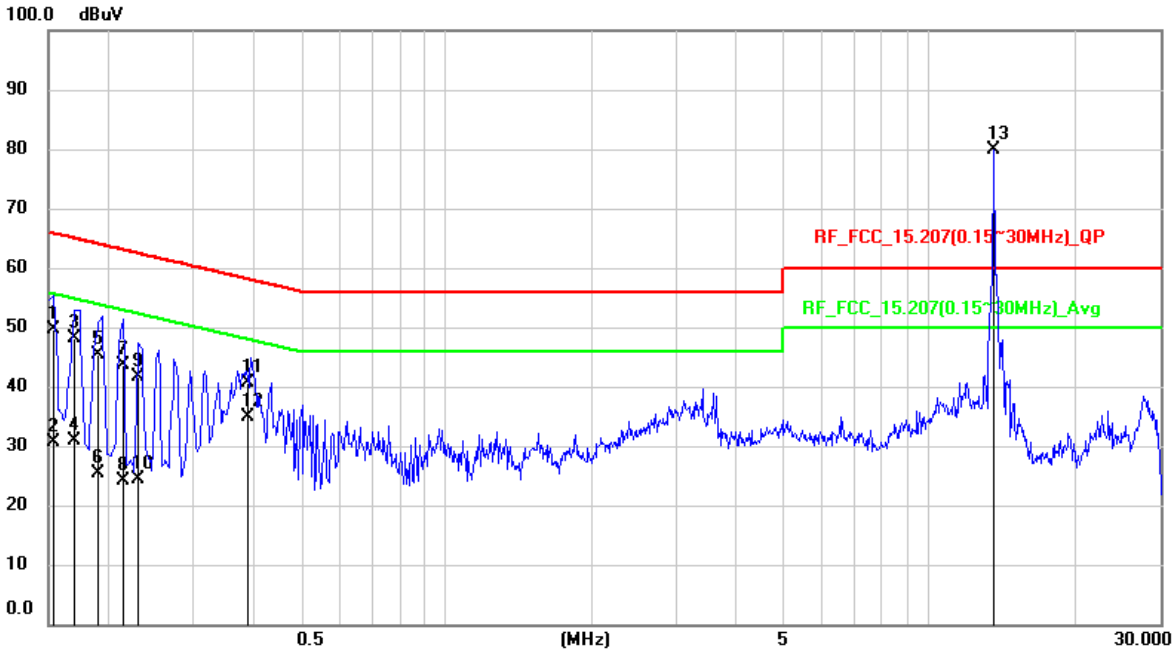


2.2.3 Test Procedure

1. The EUT was placed 0.8 meter height wooden table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT.
2. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).
3. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
4. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. The EMI test receiver connected to LISN powering the EUT. The actual test configuration, please refer to EUT test photos.
6. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz. A scan was taken on both power lines, Line and Neutral, recording at least six highest emissions.
7. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

2.2.4 Test Result

Test Voltage :	120Vac, 60Hz	**Frequency Range:**	0.15-30 MHz
Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	**6dB Bandwidth :**	9 kHz
Test Date :	2024/12/27	**Phase :**	L
Temperature :	22.6℃	**Humidity :**	42 %

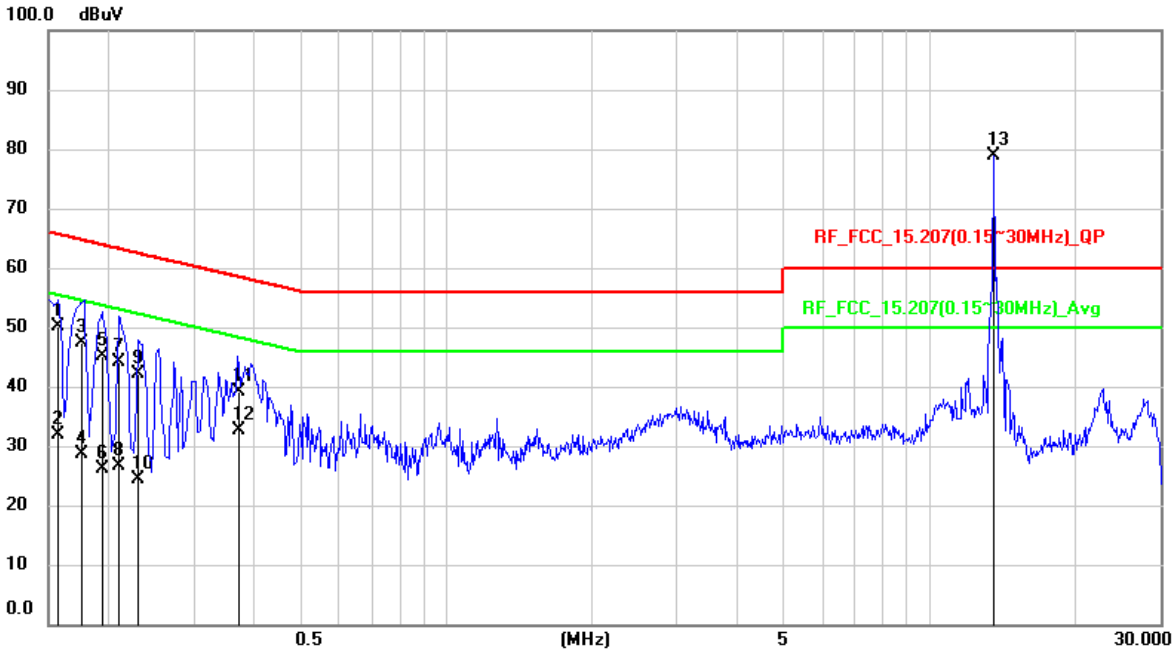


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1537	39.83	9.83	49.66	65.8	-16.14	QP
2	0.1537	20.72	9.83	30.55	55.8	-25.25	AVG
3	0.1699	38.4	9.83	48.23	64.97	-16.74	QP
4	0.1699	21.07	9.83	30.9	54.97	-24.07	AVG
5	0.1901	35.55	9.82	45.37	64.03	-18.66	QP
6	0.1901	15.63	9.82	25.45	54.03	-28.58	AVG
7	0.2131	33.93	9.82	43.75	63.08	-19.33	QP
8	0.2131	14.32	9.82	24.14	53.08	-28.94	AVG
9	0.2311	31.76	9.82	41.58	62.41	-20.83	QP
10	0.2311	14.62	9.82	24.44	52.41	-27.97	AVG
11	0.3892	30.91	9.83	40.74	58.08	-17.34	QP
12	0.3892	25.02	9.83	34.85	48.08	-13.23	AVG
*13	13.56	69.66	10.2	79.86	60	19.86	peak

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value –Limit Value
5. * = The test frequency 13.56MHz is RF Tx

Test Voltage :	120Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 1: RFID 13.56 MHz + RFID 125kHz	6dB Bandwidth :	9 kHz
Test Date :	2024/12/27	Phase :	N
Temperature :	22.6℃	Humidity :	42 %



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1565	40.26	9.83	50.09	65.65	-15.56	QP
2	0.1565	21.94	9.83	31.77	55.65	-23.88	AVG
3	0.1756	37.49	9.82	47.31	64.69	-17.38	QP
4	0.1756	18.9	9.82	28.72	54.69	-25.97	AVG
5	0.1927	35.33	9.82	45.15	63.92	-18.77	QP
6	0.1927	16.25	9.82	26.07	53.92	-27.85	AVG
7	0.2094	34.2	9.82	44.02	63.23	-19.21	QP
8	0.2094	16.86	9.82	26.68	53.23	-26.55	AVG
9	0.2282	32.26	9.82	42.08	62.51	-20.43	QP
10	0.2282	14.65	9.82	24.47	52.51	-28.04	AVG
11	0.3728	29.19	9.83	39.02	58.44	-19.42	QP
12	0.3728	22.82	9.83	32.65	48.44	-15.79	AVG
*13	13.56	68.66	10.2	78.86	60	18.86	peak

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value –Limit Value
5. * = The test frequency 13.56MHz is RF Tx

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