



FCC PART 15.225

TEST REPORT

For

Fujian Newland Payment Technology Co.,Ltd.

No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fuzhou, Fujian, China

FCC ID: 2AM6U-ME30SU

Report Type: Original Report	Product Name: POS Terminal
Report Number: 2507V68747E-RF-03	
Report Date: 2025-08-18	
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507V68747E-RF-03	R1V1	2025-08-18	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Fujian Newland Payment Technology Co.,Ltd.
Product Name:	POS Terminal
Tested Model(s):	ME30S
Power Supply:	DC 5V from adapter or DC 3.7V from battery
RF Function:	NFC
Operating Band/Frequency:	13.56 MHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna

Note:

1. The model has a variety of PNs (PN:Q7G-WG700400xx), the difference of PNs shown as below; The PN of EUT is Q7G-WG70040028.

variable	Range of variable	Content
xx(The 13th and 14th letter)	“x” could be “0~9” or“A~Z”	“xx” means the identification of customization options, such as the language of Installation Manual and the color of the cables, which do not have any impact on the electrical specifications.

2. All measurement and test data in this report was gathered from production sample serial number: 36A9-2(RF conducted), 36A9-1(Conducted Emission and Radiated Emission) (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-07-09)

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		$U_{\text{lab}} = 2U_c(y)$ (Confidence of 95%)
Conducted Emissions	150kHz-30MHz	2.45 dB
Radiated Disturbance	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~200MHz	3.47dB
	200MHz~1GHz	4.86dB
Voltage		±1%
Occupied Bandwidth		2%
Frequency Error		0.085×10^{-6}
Temperature		±1°C
Humidity		±5%

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Transmitting
Test voltage:	DC 5V from the Adapter (AC 120V/60Hz)
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Justification

The system was configured in testing mode which was provided by manufacturer.

Channel List:

Channel	Frequency (MHz)
1	13.56

EUT Exercise Software

The EUT is tested in the engineering mode.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HONOTO	Adapter	ADS-12B-06	Unknown
Unknown	NFC card	Unknown	Unknown

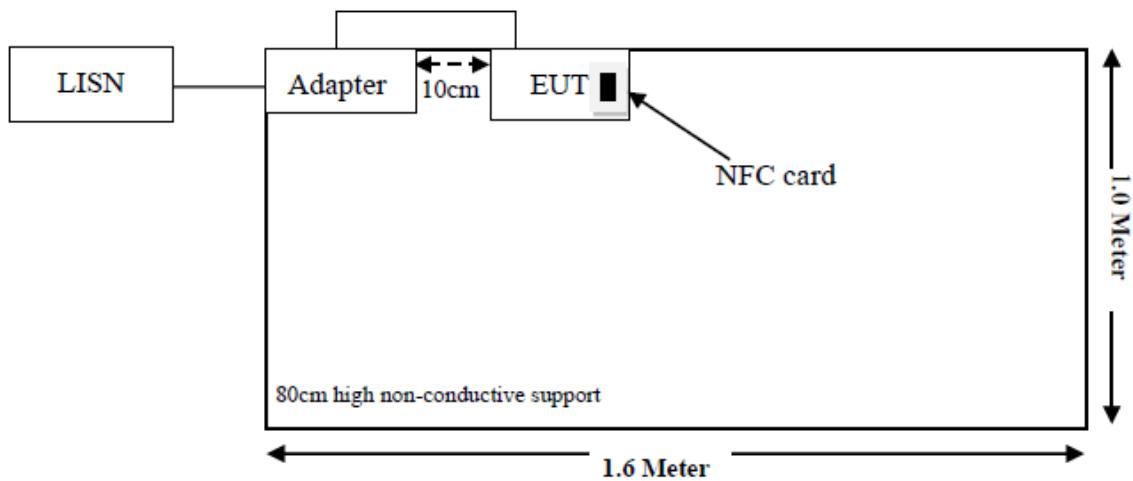
External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	1	EUT	Adapter

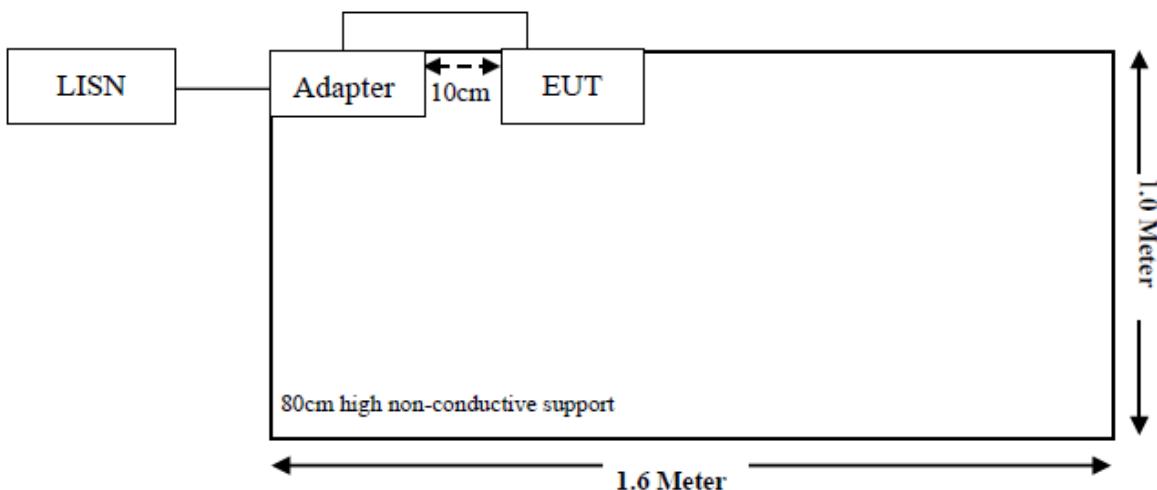
Block Diagram of Test Setup

Conducted Emission:

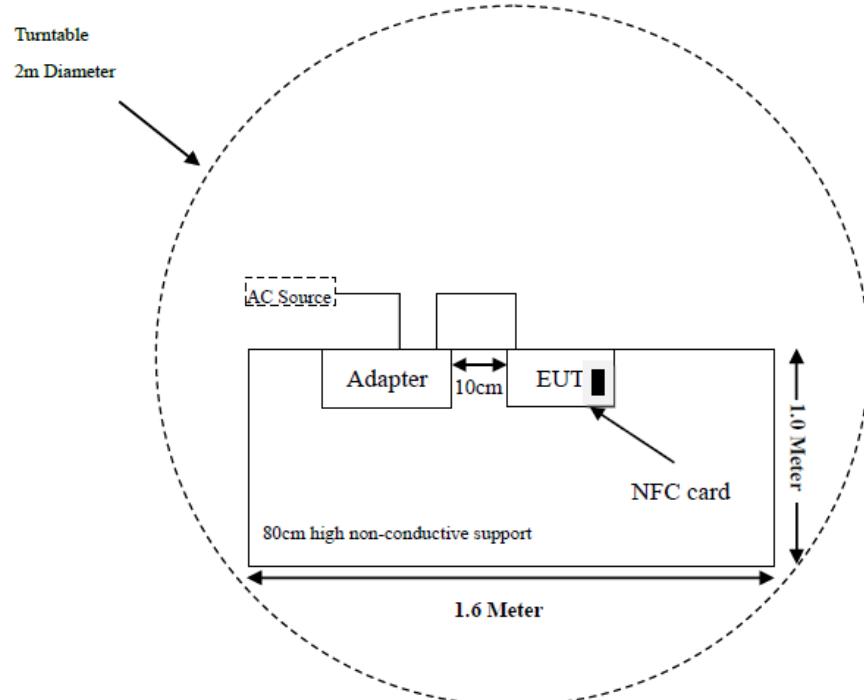
swiping card:



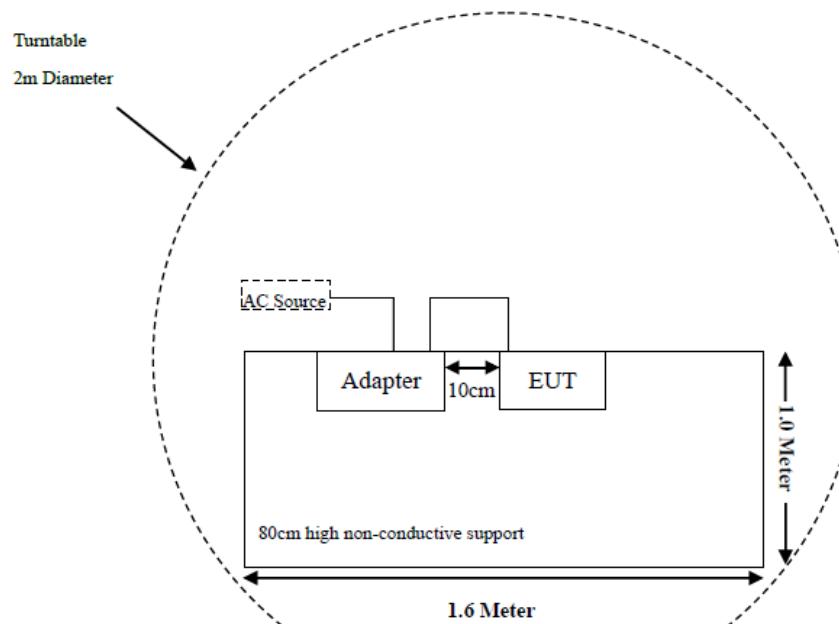
no card swiping:



Radiated Emission (Below 1GHz):
swiping card:



no card swiping:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.225 §15.209 §15.205	Radiated Emission Test	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20dB Emission Bandwidth Testing	Compliant

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
EMI Test Receiver	Rohde & Schwarz	ESR3	103105	2025/02/20	2026/02/19
LISN	Rohde & Schwarz	ENV216	100129	2025/02/20	2026/02/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emission Test (Below 1GHz)					
EMI Test Receiver	Rohde & Schwarz	ESR3	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/25	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
AC power source	WACP	ES-CPF-SD45-600	EO202306290 01	2025/02/20	2026/02/19
Temperature Chamber	BACL	BTH-150	30211	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Frequency Stability					
EMI Test Receiver	Rohde & Schwarz	ESR3	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Multimeter	Deli	DL8490	23930192	2025/2/20	2026/2/19
DC Source	MAISHENG	MS-606DS	2023115703	N/A	N/A
Constant temperature and humidity testing machine	BACL	BTH-150	30211	2025/02/20	2026/02/19

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Antenna Connected Construction

The EUT has an Coil antenna for 13.56 MHz, fulfill the requirement of this section, please refer to the EUT photos.

Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

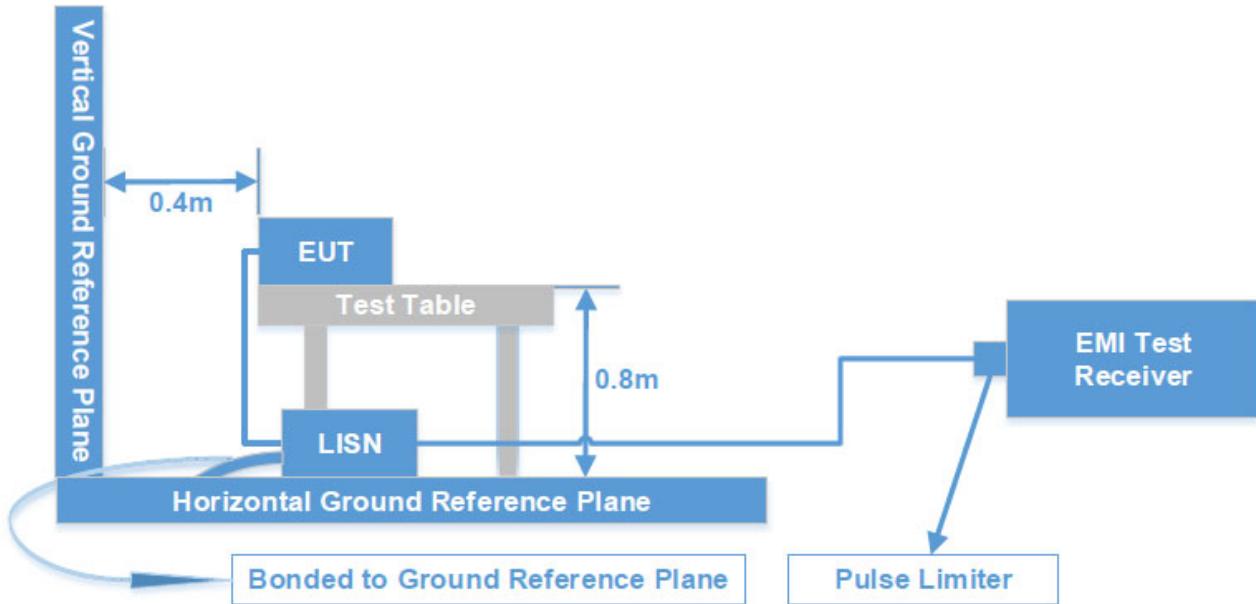
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

Test System Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz - 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise

level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned} \text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Result (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)} \end{aligned}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

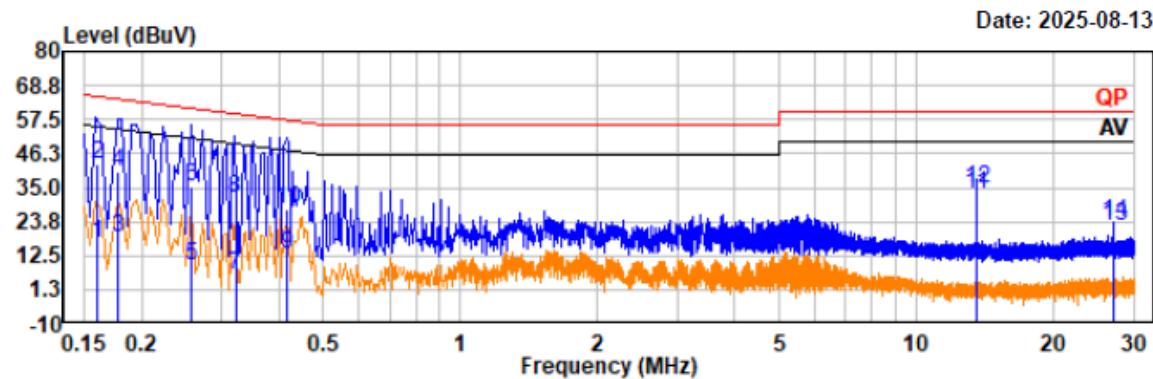
Test Data

Temperature:	21.6°C
Relative Humidity:	62%
ATM Pressure:	100.1kPa
Test Date:	2025-08-13
Test Engineer:	Wlif Wu

EUT Mode: swiping card

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S

Temp/Humi/ATM: 21.6°C/62%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



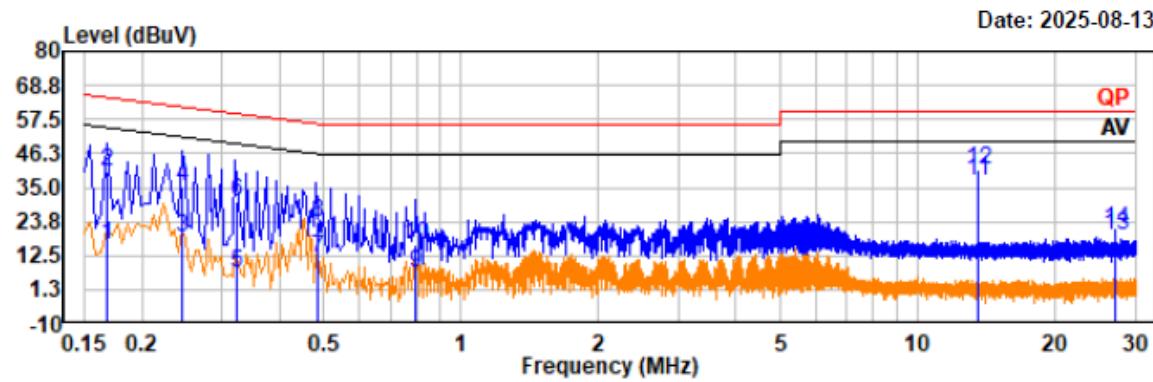
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.160	-4.35	20.85	16.50	55.44	38.94	Line	Average
0.160	22.06	20.85	42.91	65.44	22.53	Line	QP
0.177	-2.32	20.72	18.40	54.62	36.22	Line	Average
0.177	19.25	20.72	39.97	64.62	24.65	Line	QP
0.257	-11.03	20.49	9.46	51.51	42.05	Line	Average
0.257	14.69	20.49	35.18	61.51	26.33	Line	QP
0.321	-14.18	20.42	6.24	49.67	43.43	Line	Average
0.321	11.08	20.42	31.50	59.67	28.17	Line	QP
0.419	-7.37	20.34	12.97	47.47	34.50	Line	Average
0.419	7.49	20.34	27.83	57.47	29.64	Line	QP
13.560	11.94	20.80	32.74	50.00	17.26	Line	Average
13.560	13.75	20.80	34.55	60.00	25.45	Line	QP
27.116	1.15	21.33	22.48	50.00	27.52	Line	Average
27.116	2.29	21.33	23.62	60.00	36.38	Line	QP

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S

Temp/Humi/ATM: 21.6°C/62%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

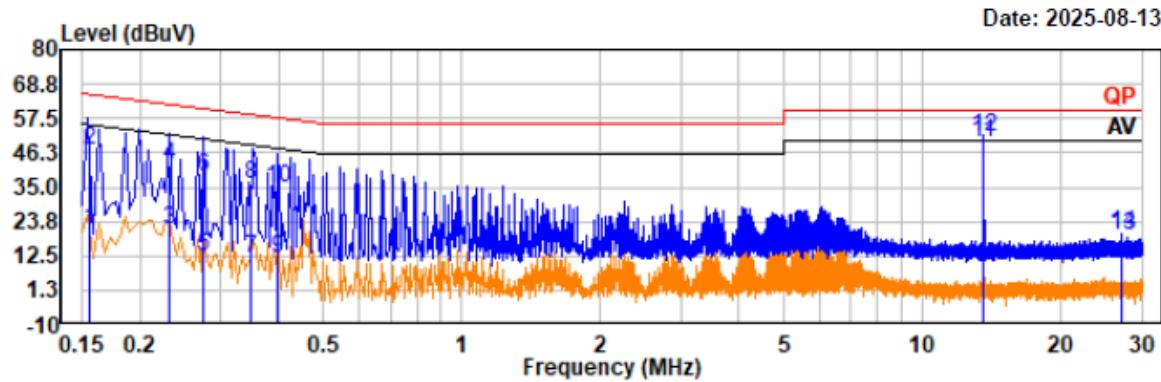
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.167	-4.89	20.70	15.81	55.10	39.29	Neutral	Average
0.167	19.41	20.70	40.11	65.10	24.99	Neutral	QP
0.245	-2.10	20.60	18.50	51.92	33.42	Neutral	Average
0.245	14.56	20.60	35.16	61.92	26.76	Neutral	QP
0.323	-13.71	20.52	6.81	49.63	42.82	Neutral	Average
0.323	9.90	20.52	30.42	59.63	29.21	Neutral	QP
0.485	-8.56	20.40	11.84	46.25	34.41	Neutral	Average
0.485	3.20	20.40	23.60	56.25	32.65	Neutral	QP
0.798	-13.85	20.53	6.68	46.00	39.32	Neutral	Average
0.798	-4.74	20.53	15.79	56.00	40.21	Neutral	QP
13.561	15.95	21.00	36.95	50.00	13.05	Neutral	Average
13.561	19.59	21.00	40.59	60.00	19.41	Neutral	QP
27.120	-2.13	21.31	19.18	50.00	30.82	Neutral	Average
27.120	-0.27	21.31	21.04	60.00	38.96	Neutral	QP

EUT Mode: no card swiping

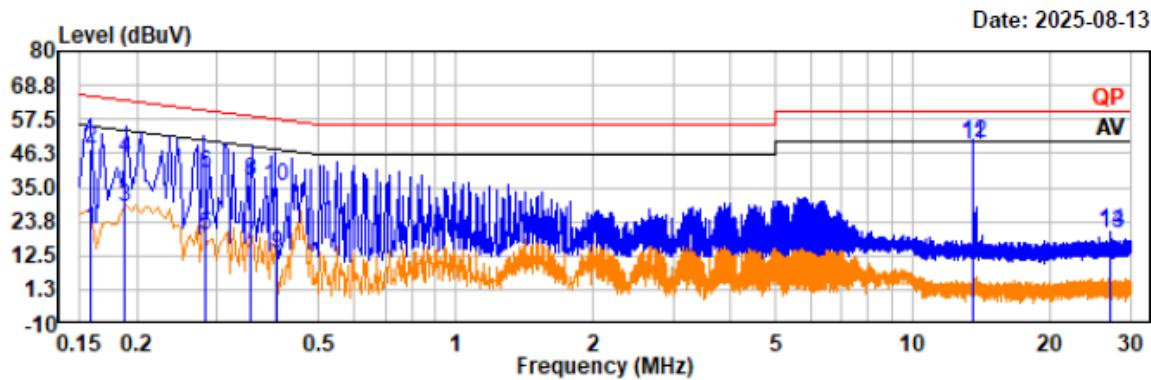
Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S

Temp/Humi/ATM: 21.6 °C/62%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S

Temp/Humi/ATM: 21.6 °C/62%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.159	0.13	20.72	20.85	55.53	34.68	Neutral	Average
0.159	26.71	20.72	47.43	65.53	18.10	Neutral	QP
0.189	7.83	20.68	28.51	54.09	25.58	Neutral	Average
0.189	24.01	20.68	44.69	64.09	19.40	Neutral	QP
0.282	-1.25	20.57	19.32	50.75	31.43	Neutral	Average
0.282	18.79	20.57	39.36	60.75	21.39	Neutral	QP
0.355	-4.59	20.49	15.90	48.84	32.94	Neutral	Average
0.355	16.64	20.49	37.13	58.84	21.71	Neutral	QP
0.404	-7.70	20.45	12.75	47.78	35.03	Neutral	Average
0.404	14.95	20.45	35.40	57.78	22.38	Neutral	QP
13.560	27.79	21.00	48.79	50.00	1.21	Neutral	Average
13.560	28.84	21.00	49.84	60.00	10.16	Neutral	QP
27.120	-1.33	21.31	19.98	50.00	30.02	Neutral	Average
27.120	-0.63	21.31	20.68	60.00	39.32	Neutral	QP

FCC§15.225, §15.205 & §15.209 - RADIATED EMISSIONS TEST**Applicable Standard**

As per FCC Part 15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{\text{limit}} = FS_{\text{max}} - 40\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

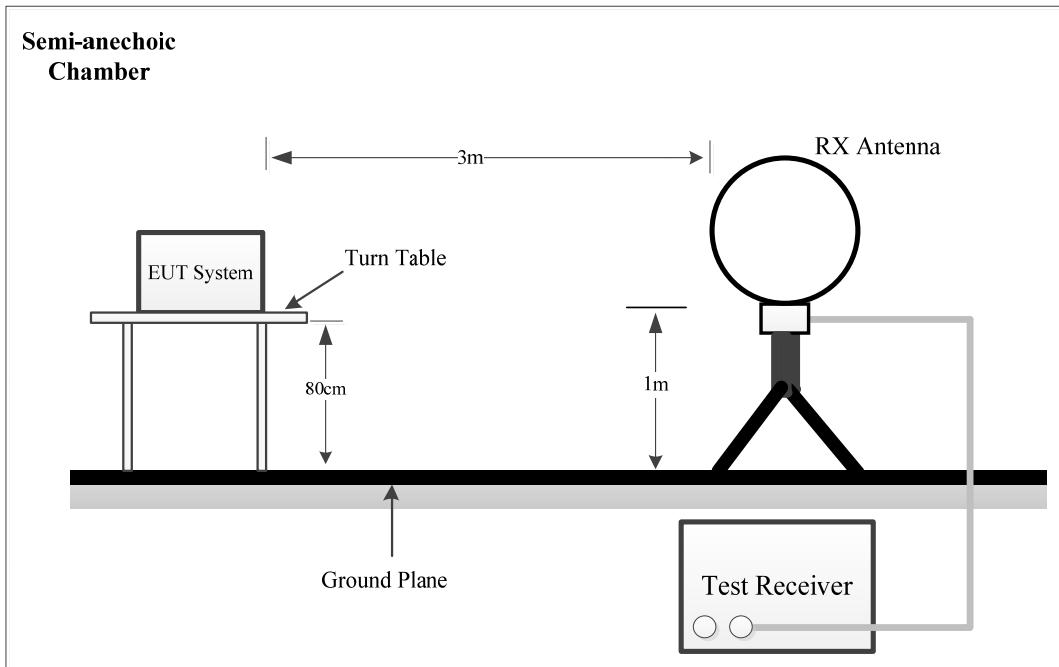
where

FS_{limit}	is the calculation of field strength at the limit distance, expressed in dB μ V/m
FS_{max}	is the measured field strength, expressed in dB μ V/m
$d_{\text{near field}}$	is the $\lambda/2\pi$ distance
d_{measure}	is the distance of the measurement point from the EUT
d_{limit}	is the reference distance or the distance of the $\lambda/2\pi$ point

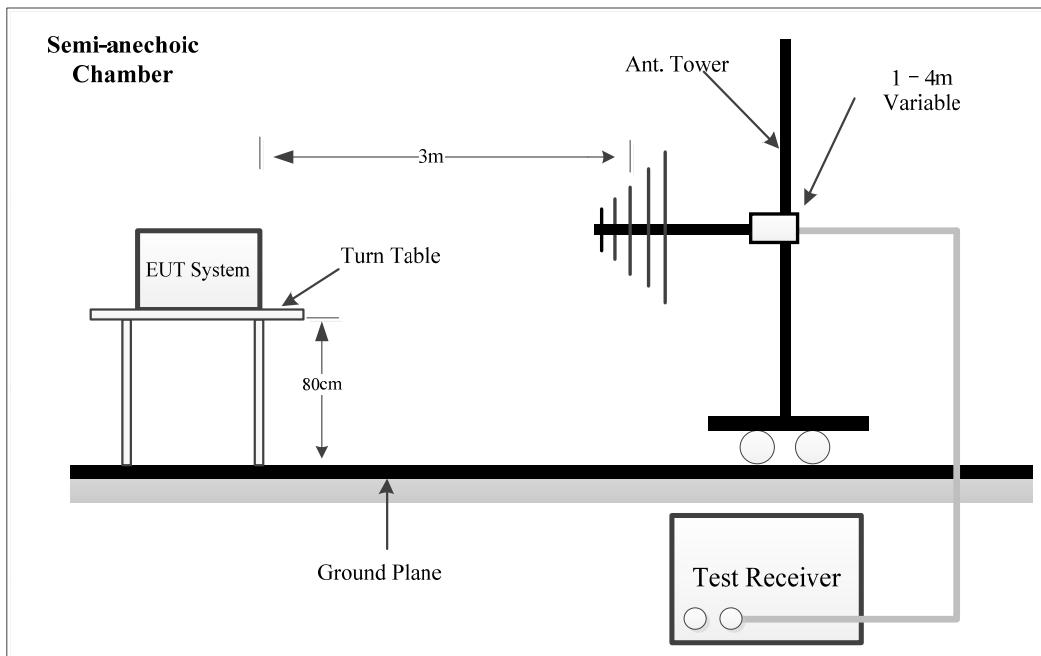
Note: dB μ V/m=20 log(μ V/m)

Test System Setup

9 kHz-30MHz:



30MHz-1GHz:



The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9 kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120 kHz	/	QP

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

$$\text{Result (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Result (dB}\mu\text{V/m)}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209, 15.205, 15.225.

Test Data

Frequency Range:	Below 1 GHz
Temperature:	23.8°C
Relative Humidity:	55%
ATM Pressure:	100.1kPa
Test Date:	2025-08-13
Test Engineer:	Wlif Wu

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

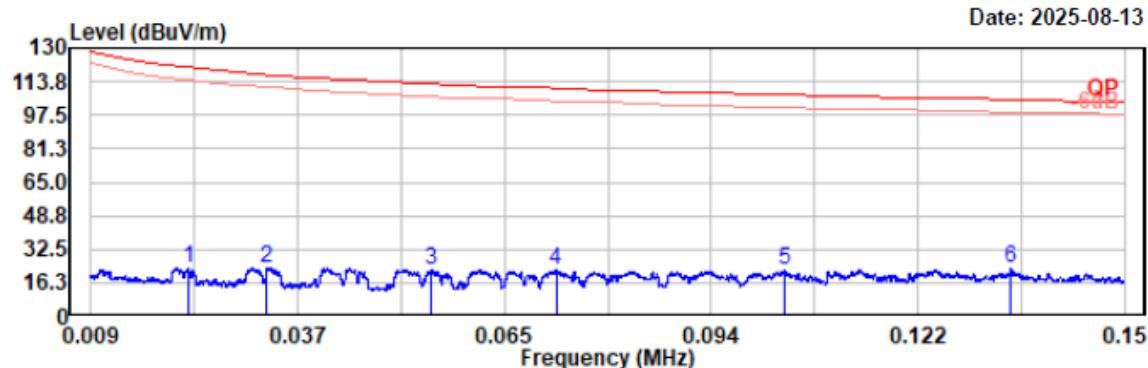
1) 9 kHz~150 kHz:

EUT Mode: swiping card

Parallel

Project No.: 2507V68747E-RF
 Test Mode: NFC Transmitting
 EUT Model: ME30S
 Test distance: 3m

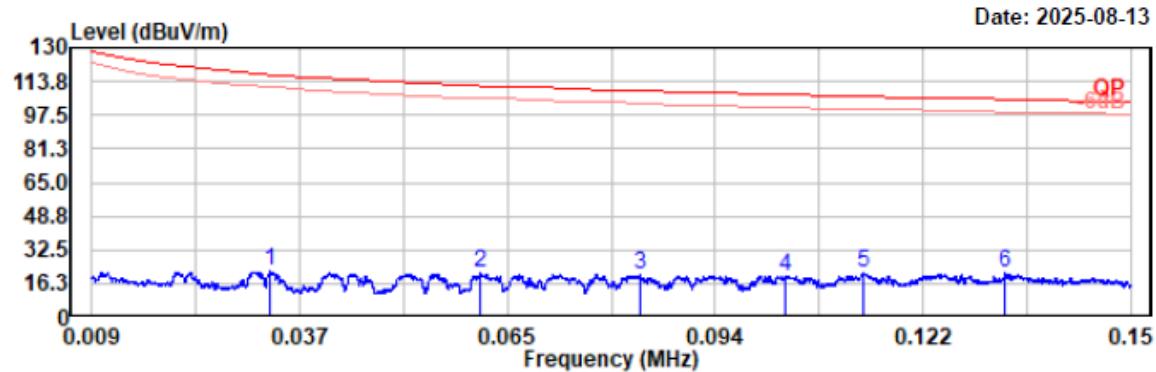
Temp/Humi/ATM: 23.8°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



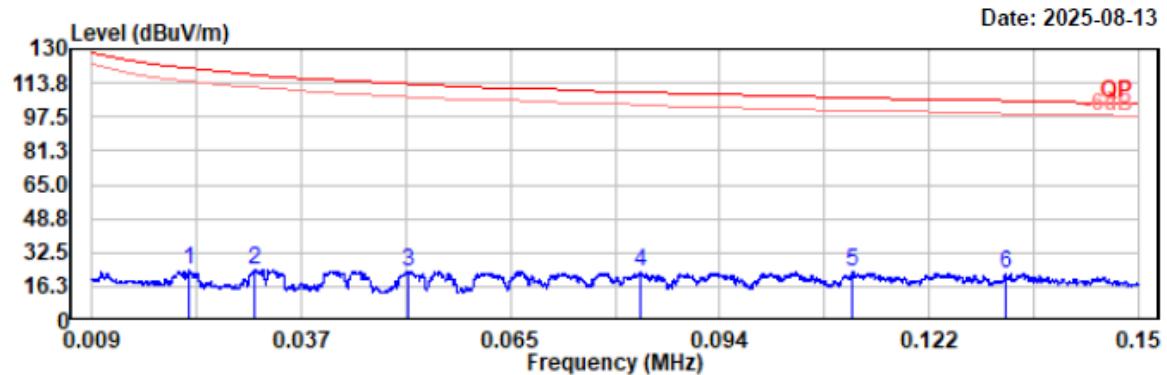
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.033	2.60	19.90	22.50	117.19	94.69	Peak
0.062	1.21	19.88	21.09	111.79	90.70	Peak
0.083	0.49	19.73	20.22	109.18	88.96	Peak
0.103	0.44	19.70	20.14	107.34	87.20	Peak
0.114	1.42	19.70	21.12	106.49	85.37	Peak
0.133	1.83	19.70	21.53	105.13	83.60	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



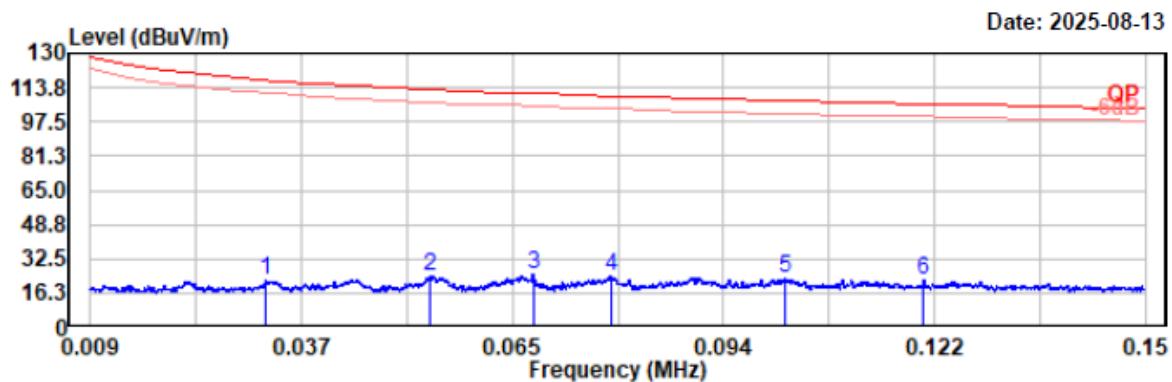
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.022	4.02	19.82	23.84	120.74	96.90	Peak
0.031	4.43	19.90	24.33	117.81	93.48	Peak
0.052	3.60	19.90	23.50	113.36	89.86	Peak
0.083	3.41	19.73	23.14	109.23	86.09	Peak
0.111	3.71	19.70	23.41	106.66	83.25	Peak
0.132	2.74	19.70	22.44	105.19	82.75	Peak

EUT Mode: no card swiping**Parallel**

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

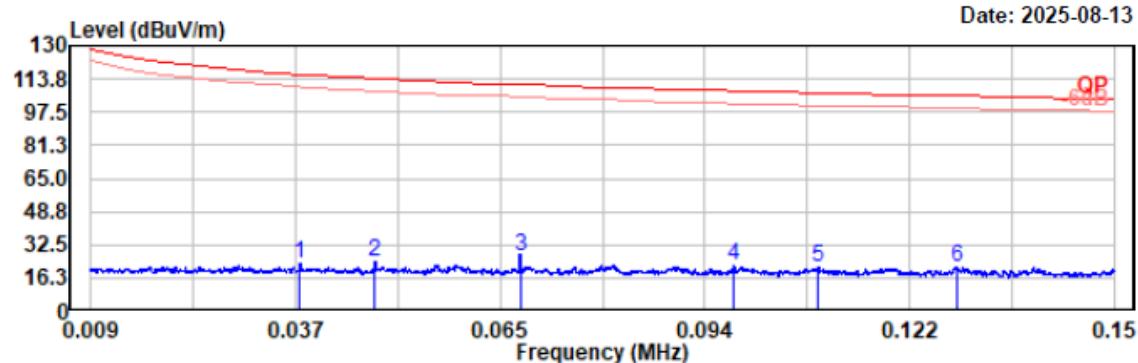
Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



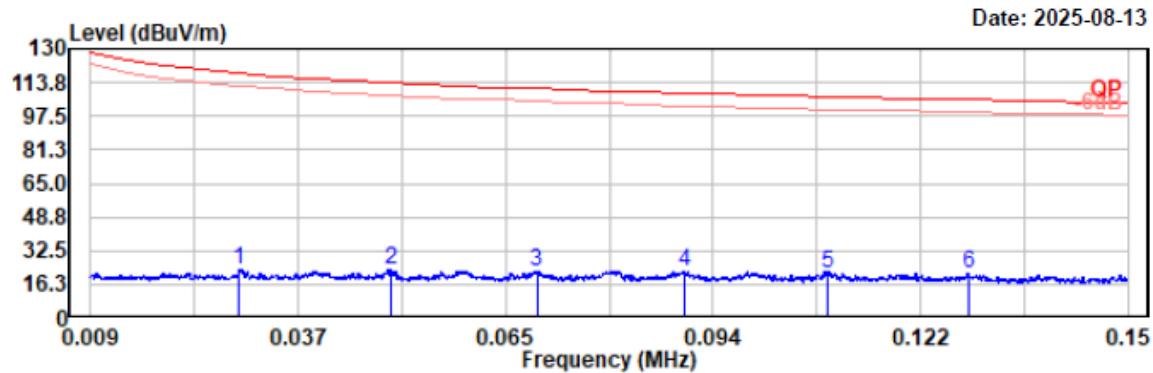
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.038	3.63	19.91	23.54	116.06	92.52	Peak
0.048	4.49	19.91	24.40	113.96	89.56	Peak
0.068	6.75	19.83	26.58	110.94	84.36	Peak
0.098	2.30	19.75	22.05	107.82	85.77	Peak
0.109	1.80	19.73	21.53	106.84	85.31	Peak
0.128	1.60	19.73	21.33	105.45	84.12	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8 °C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



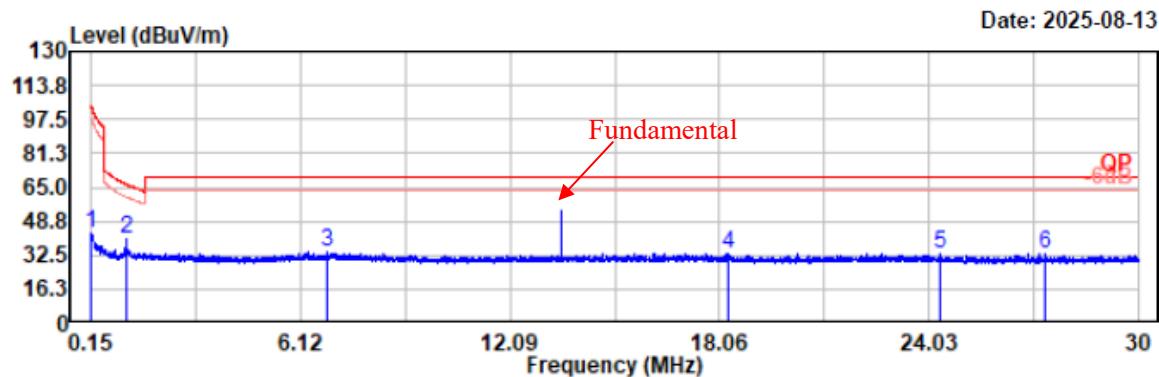
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.029	3.41	19.90	23.31	118.29	94.98	Peak
0.050	3.18	19.91	23.09	113.65	90.56	Peak
0.070	2.93	19.81	22.74	110.75	88.01	Peak
0.090	2.59	19.81	22.40	108.56	86.16	Peak
0.109	2.01	19.73	21.74	106.84	85.10	Peak
0.128	1.84	19.73	21.57	105.44	83.87	Peak

2) 150 kHz ~30MHz**EUT Mode: swiping card****Parallel**

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



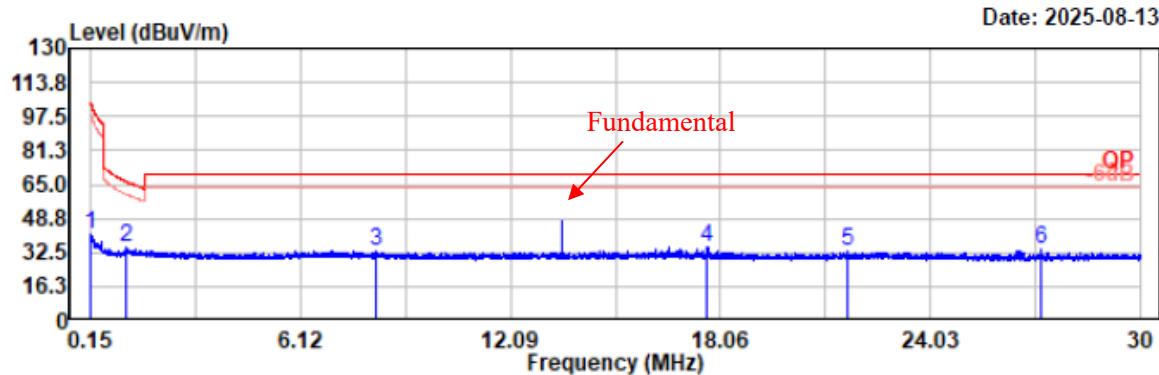
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.156	23.36	19.70	43.06	103.74	60.68	Peak
1.150	21.10	19.69	40.79	66.39	25.60	Peak
6.890	14.75	19.51	34.26	69.54	35.28	Peak
18.302	13.37	19.70	33.07	69.54	36.47	Peak
24.355	13.42	19.89	33.31	69.54	36.23	Peak
27.343	13.43	19.71	33.14	69.54	36.40	Peak

Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



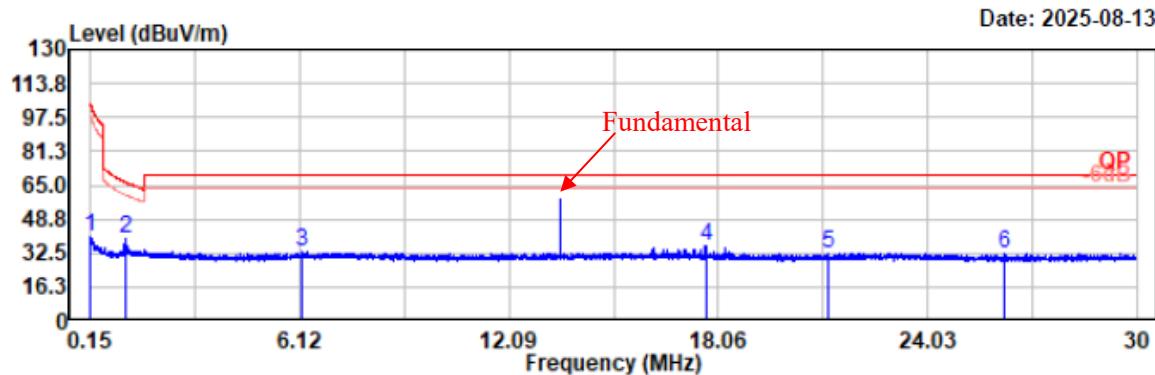
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.150	21.10	19.70	40.80	104.08	63.28	Peak
1.168	15.55	19.68	35.23	66.26	31.03	Peak
8.269	13.99	19.50	33.49	69.54	36.05	Peak
17.693	15.60	19.66	35.26	69.54	34.28	Peak
21.663	13.17	19.83	33.00	69.54	36.54	Peak
27.161	14.07	19.73	33.80	69.54	35.74	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



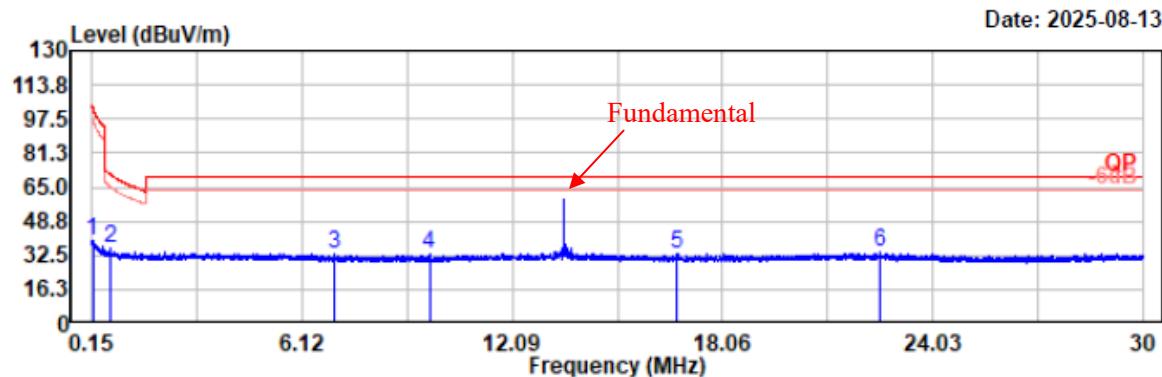
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.156	20.27	19.70	39.97	103.74	63.77	Peak
1.162	19.93	19.68	39.61	66.30	26.69	Peak
6.156	13.23	19.58	32.81	69.54	36.73	Peak
17.696	16.22	19.66	35.88	69.54	33.66	Peak
21.179	12.90	19.82	32.72	69.54	36.82	Peak
26.230	12.59	19.80	32.39	69.54	37.15	Peak

EUT Mode: no card swiping**Parallel**

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



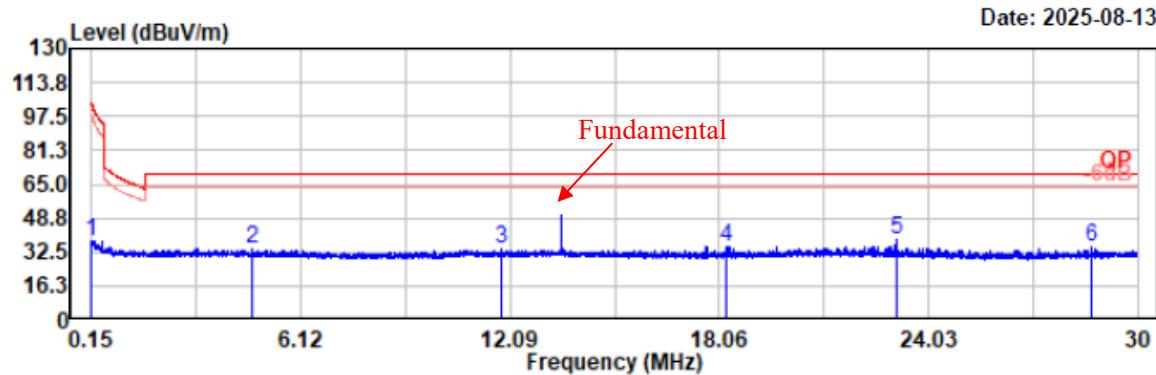
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.168	19.42	19.72	39.14	103.10	63.96	Peak
0.684	16.08	19.85	35.93	70.90	34.97	Peak
7.036	13.59	19.68	33.27	69.54	36.27	Peak
9.732	13.36	19.70	33.06	69.54	36.48	Peak
16.782	13.39	19.88	33.27	69.54	36.27	Peak
22.517	13.79	20.16	33.95	69.54	35.59	Peak

Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



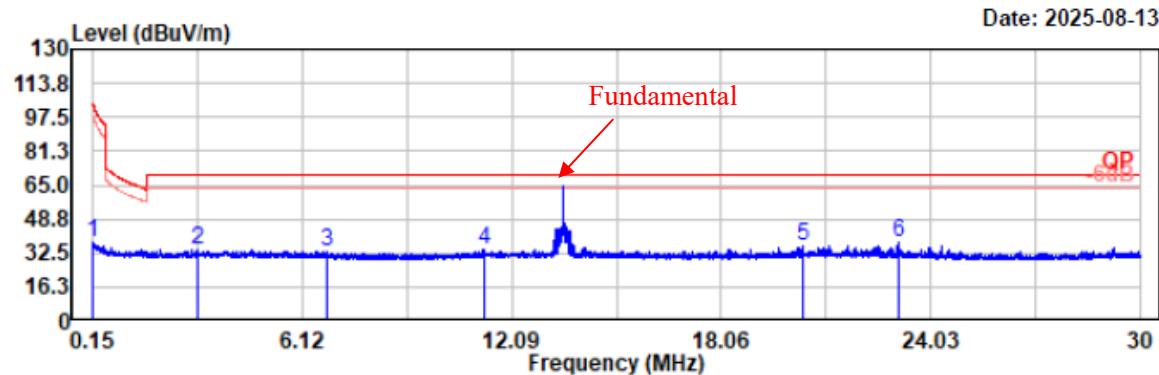
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.156	18.07	19.72	37.79	103.74	65.95	Peak
4.747	14.37	19.70	34.07	69.54	35.47	Peak
11.833	14.04	19.72	33.76	69.54	35.78	Peak
18.245	15.34	19.97	35.31	69.54	34.23	Peak
23.132	18.63	20.17	38.80	69.54	30.74	Peak
28.687	14.92	20.03	34.95	69.54	34.59	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



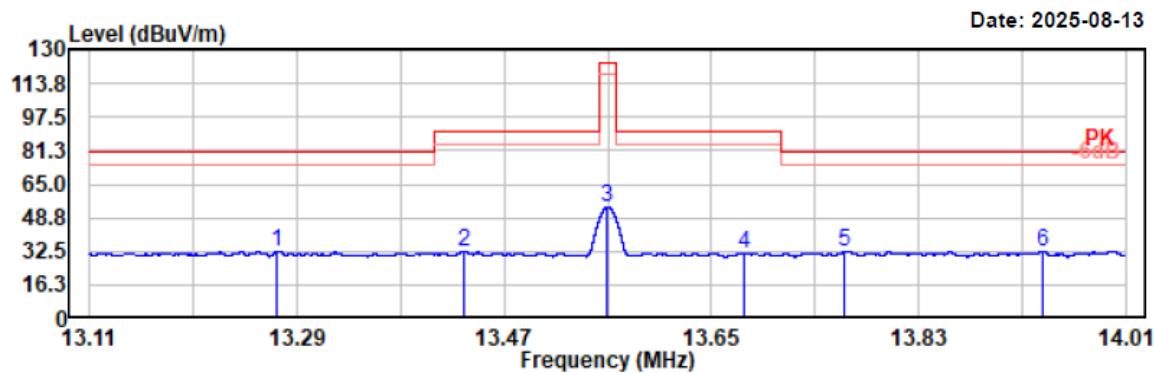
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.150	18.00	19.72	37.72	104.08	66.36	Peak
3.138	13.92	19.84	33.76	69.54	35.78	Peak
6.830	13.76	19.71	33.47	69.54	36.07	Peak
11.284	14.47	19.72	34.19	69.54	35.35	Peak
20.382	15.60	20.10	35.70	69.54	33.84	Peak
23.132	17.19	20.17	37.36	69.54	32.18	Peak

3) 13.11MHz-14.01MHz**EUT Mode: swiping card****Parallel**

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



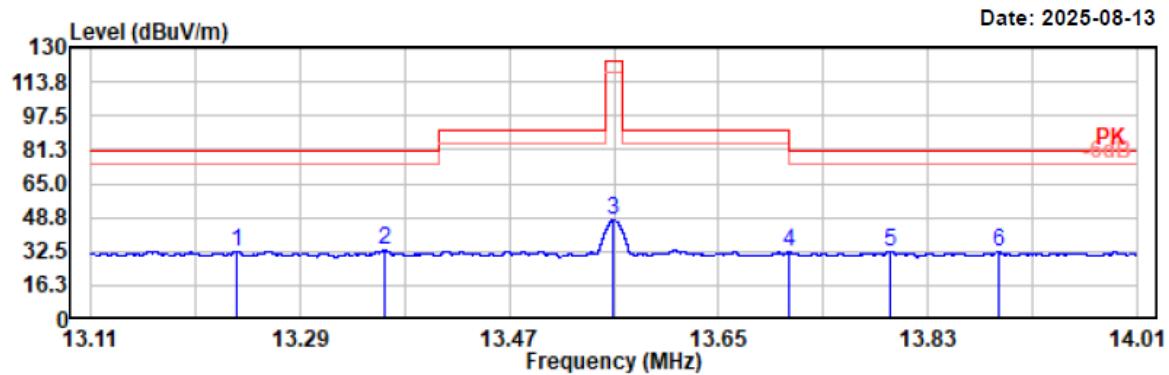
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.273	13.09	19.50	32.59	80.51	47.92	Peak
13.436	12.68	19.50	32.18	90.47	58.29	Peak
13.560	34.61	19.50	54.11	124.00	69.89	Peak
13.679	12.25	19.50	31.75	90.47	58.72	Peak
13.766	12.64	19.50	32.14	80.51	48.37	Peak
13.937	13.13	19.50	32.63	80.51	47.88	Peak

Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



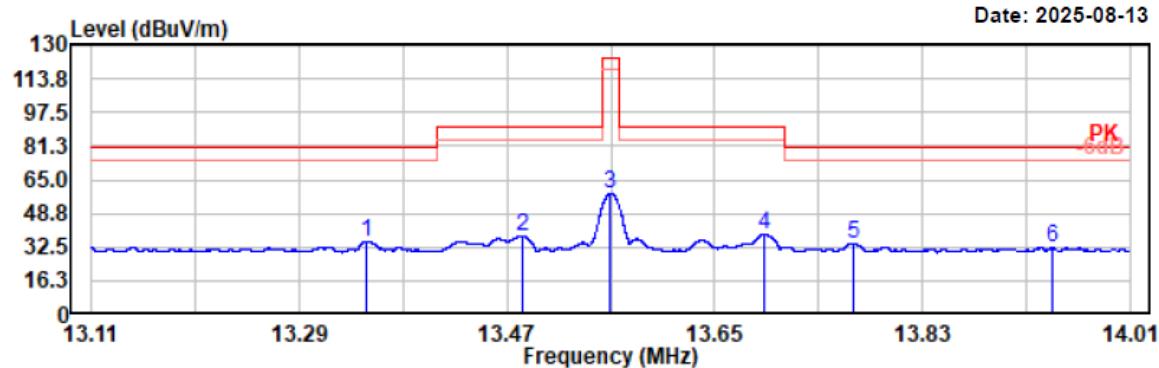
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.236	12.94	19.50	32.44	80.51	48.07	Peak
13.363	13.34	19.50	32.84	80.51	47.67	Peak
13.560	27.86	19.50	47.36	124.00	76.64	Peak
13.711	12.57	19.50	32.07	80.51	48.44	Peak
13.798	13.17	19.50	32.67	80.51	47.84	Peak
13.891	12.48	19.50	31.98	80.51	48.53	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



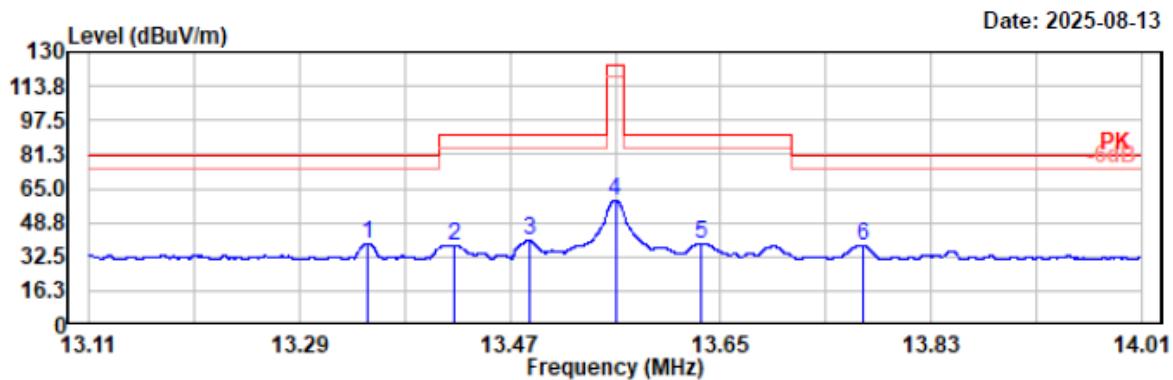
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.349	15.71	19.50	35.21	80.51	45.30	Peak
13.483	18.39	19.50	37.89	90.47	52.58	Peak
13.560	38.81	19.50	58.31	124.00	65.69	Peak
13.693	19.00	19.50	38.50	90.47	51.97	Peak
13.770	14.59	19.50	34.09	80.51	46.42	Peak
13.942	12.49	19.50	31.99	80.51	48.52	Peak

EUT Mode: no card swiping**Parallel**

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



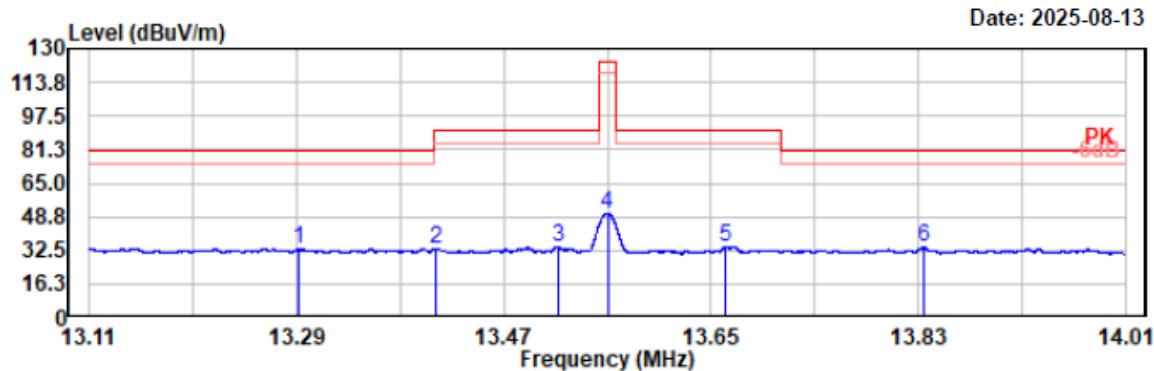
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.348	19.26	19.74	39.00	80.51	41.51	Peak
13.422	18.33	19.74	38.07	90.47	52.40	Peak
13.486	20.45	19.74	40.19	90.47	50.28	Peak
13.560	39.32	19.74	59.06	124.00	64.94	Peak
13.634	18.96	19.74	38.70	90.47	51.77	Peak
13.772	18.32	19.75	38.07	80.51	42.44	Peak

Perpendicular

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



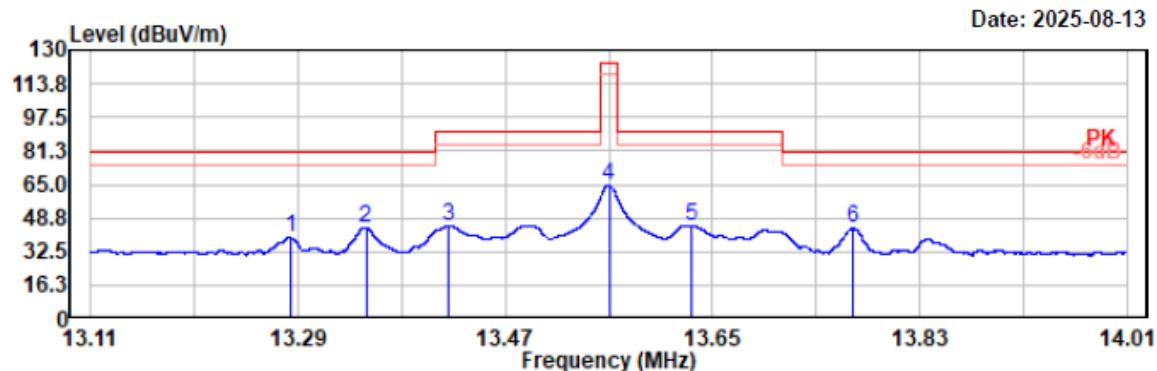
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.292	13.36	19.74	33.10	80.51	47.41	Peak
13.411	13.52	19.74	33.26	90.47	57.21	Peak
13.517	14.34	19.74	34.08	90.47	56.39	Peak
13.560	30.67	19.74	50.41	124.00	73.59	Peak
13.663	14.52	19.74	34.26	90.47	56.21	Peak
13.834	14.01	19.75	33.76	80.51	46.75	Peak

Ground-parallel

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



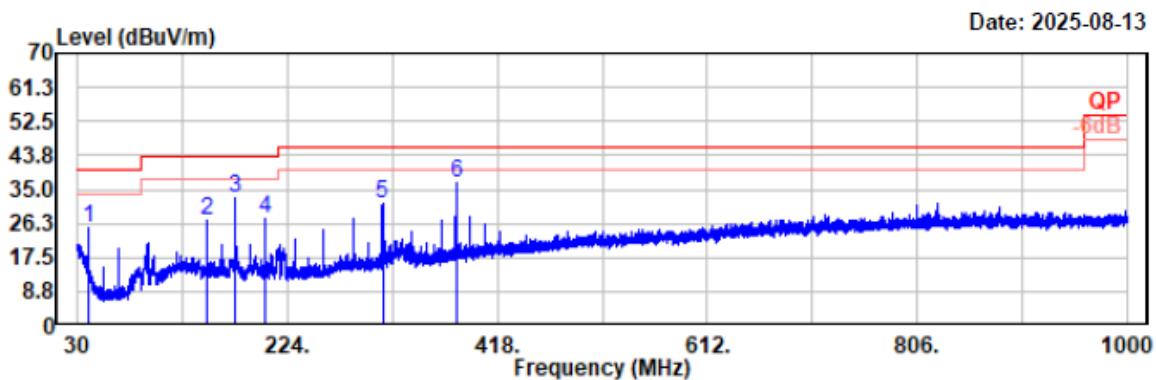
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.283	19.44	19.74	39.18	80.51	41.33	Peak
13.349	24.24	19.74	43.98	80.51	36.53	Peak
13.421	25.19	19.74	44.93	90.47	45.54	Peak
13.560	44.69	19.74	64.43	124.00	59.57	Peak
13.632	25.24	19.74	44.98	90.47	45.49	Peak
13.772	24.05	19.75	43.80	80.51	36.71	Peak

4) 30MHz-1GHz**EUT Mode: swiping card**

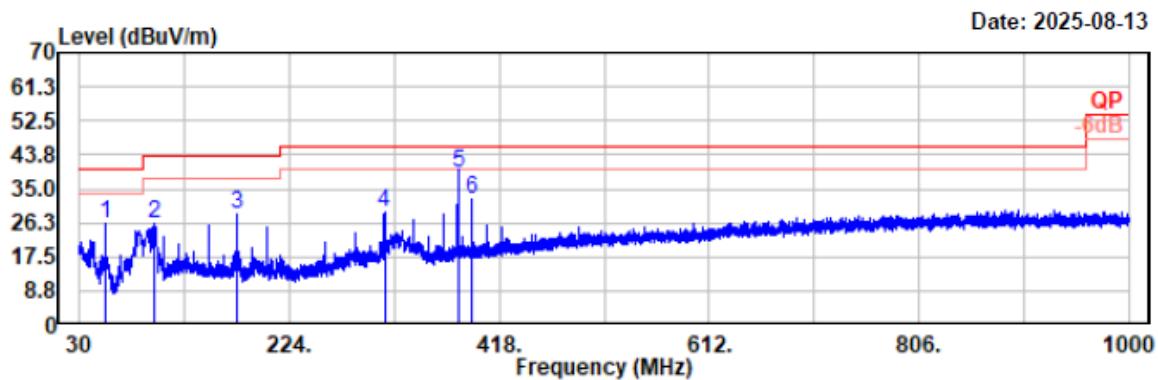
Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



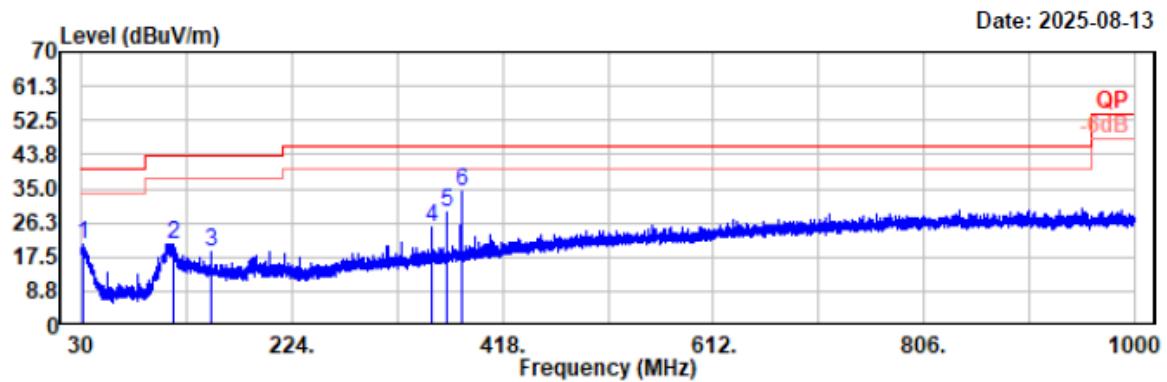
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
54.15	43.98	-17.81	26.17	40.00	13.83	Vertical	Peak
99.65	41.04	-15.02	26.02	43.50	17.48	Vertical	Peak
176.28	40.48	-12.13	28.35	43.50	15.15	Vertical	Peak
311.88	37.94	-8.97	28.97	46.00	17.03	Vertical	Peak
379.69	46.27	-7.13	39.14	46.00	6.86	Vertical	QP
393.27	38.84	-6.63	32.21	46.00	13.79	Vertical	Peak

EUT Mode: no card swiping

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

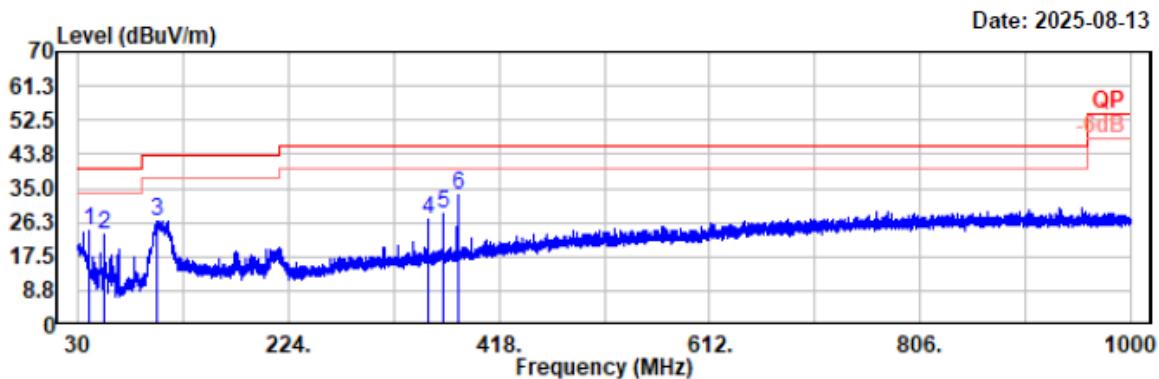


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.26	27.00	-6.00	21.00	40.00	19.00	Horizontal	Peak
114.00	32.16	-11.22	20.94	43.50	22.56	Horizontal	Peak
149.60	29.84	-11.23	18.61	43.50	24.89	Horizontal	Peak
352.53	33.32	-7.99	25.33	46.00	20.67	Horizontal	Peak
366.11	36.32	-7.48	28.84	46.00	17.16	Horizontal	Peak
379.69	41.39	-7.13	34.26	46.00	11.74	Horizontal	Peak

Project No.: 2507V68747E-RF
Test Mode: NFC Transmitting
EUT Model: ME30S
Test distance: 3m

Temp/Humi/ATM: 23.8°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
40.67	36.30	-12.12	24.18	40.00	15.82	Vertical	Peak
54.15	40.98	-17.81	23.17	40.00	16.83	Vertical	Peak
103.43	40.59	-13.88	26.71	43.50	16.79	Vertical	Peak
352.53	35.08	-7.99	27.09	46.00	18.91	Vertical	Peak
366.11	35.92	-7.48	28.44	46.00	17.56	Vertical	Peak
379.69	40.31	-7.13	33.18	46.00	12.82	Vertical	Peak

FCC§15.225(e) - FREQUENCY STABILITY

Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Procedure

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible.

Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

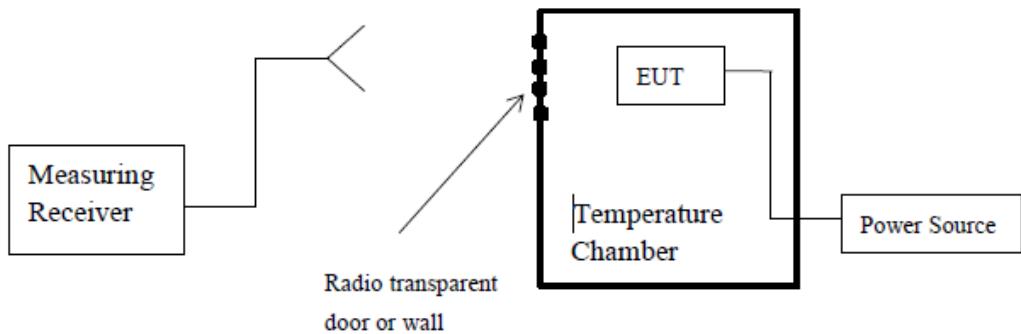
f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

Test Setup Block diagram**Test Data**

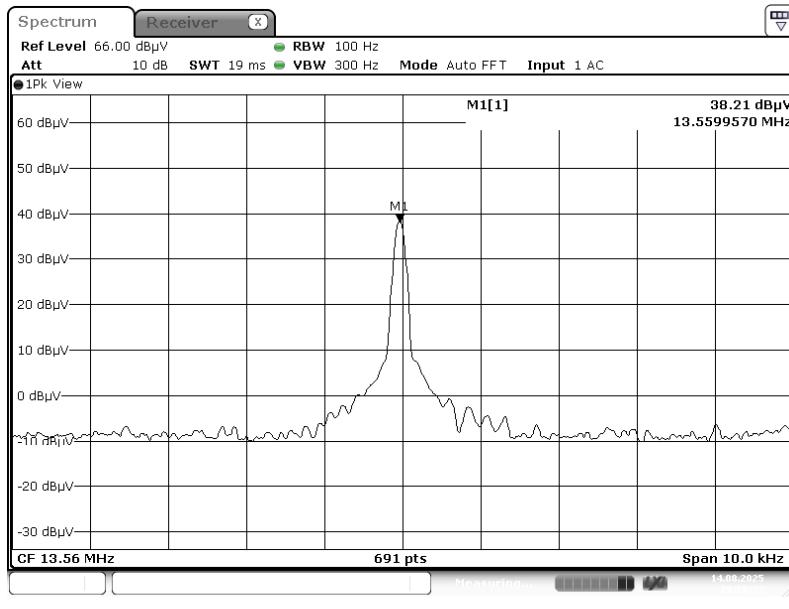
Test Mode:	Transmitting	Test Engineer:	Wlif Wu
Test Date:	2025-08-14	Environment:	Temp.: 23.6°C Humi.: 56% Atm:100.1kPa

Test Result: Compliant

Note: Please refer to the below plots for normal test:

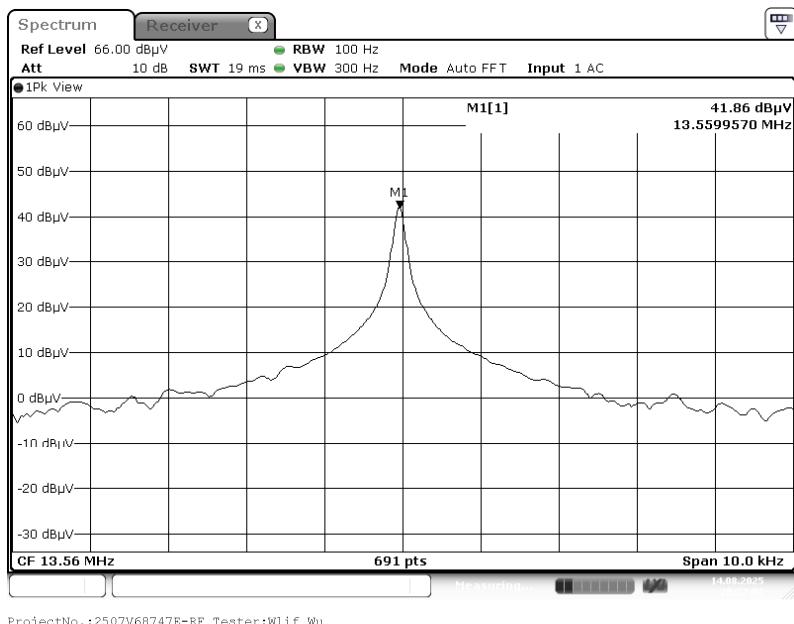
EUT Mode: swiping card

$F_0=13.56\text{MHz}$				
Power Supply(V _{dc})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (%)	Part 15.225 Limit(%)
3.7	-20	13.559373	-0.0046	0.01
	-10	13.559837	-0.0012	0.01
	0	13.559685	-0.0023	0.01
	10	13.559476	-0.0039	0.01
	20	13.559957	-0.0003	0.01
	30	13.560053	0.0004	0.01
	40	13.560065	0.0005	0.01
	50	13.560522	0.0038	0.01
3.33	20	13.559482	-0.0038	0.01
4.07	20	13.560083	0.0006	0.01

Normal condition:**Frequency Stability - swiping card**

EUT Mode: no card swiping

$F_0 = 13.56\text{MHz}$				
Power Supply(V _{dc})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (%)	Part 15.225 Limit(%)
3.7	-20	13.559480	-0.0038	0.01
	-10	13.559755	-0.0018	0.01
	0	13.559519	-0.0035	0.01
	10	13.559856	-0.0011	0.01
	20	13.559957	-0.0003	0.01
	30	13.560222	0.0016	0.01
	40	13.560259	0.0019	0.01
	50	13.560337	0.0025	0.01
3.33	20	13.559648	-0.0026	0.01
4.07	20	13.560342	0.0025	0.01

Normal condition:**Frequency Stability - no card swiping**

§15.215(c) - 20dB EMISSION BANDWIDTH TESTING

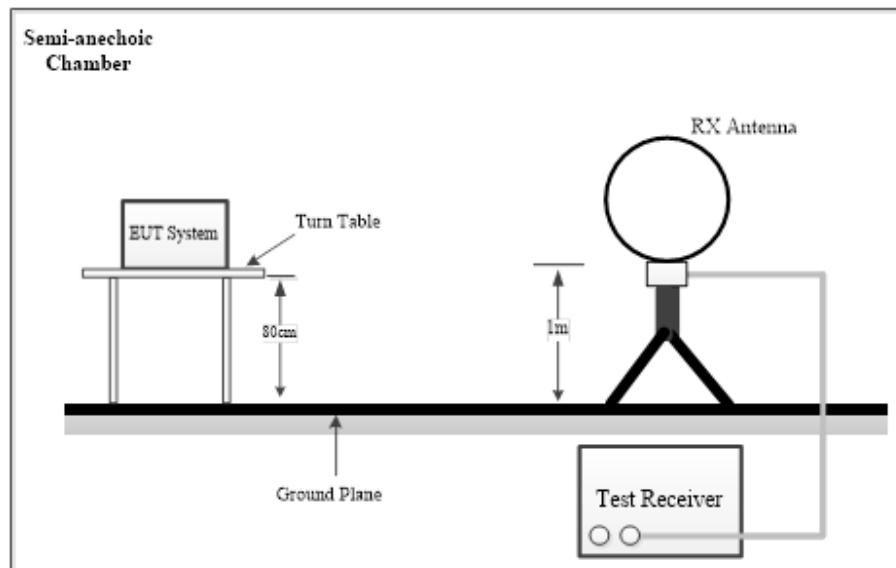
Requirement

Per 15.215 (c) 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. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

1. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Test Setup Block diagram

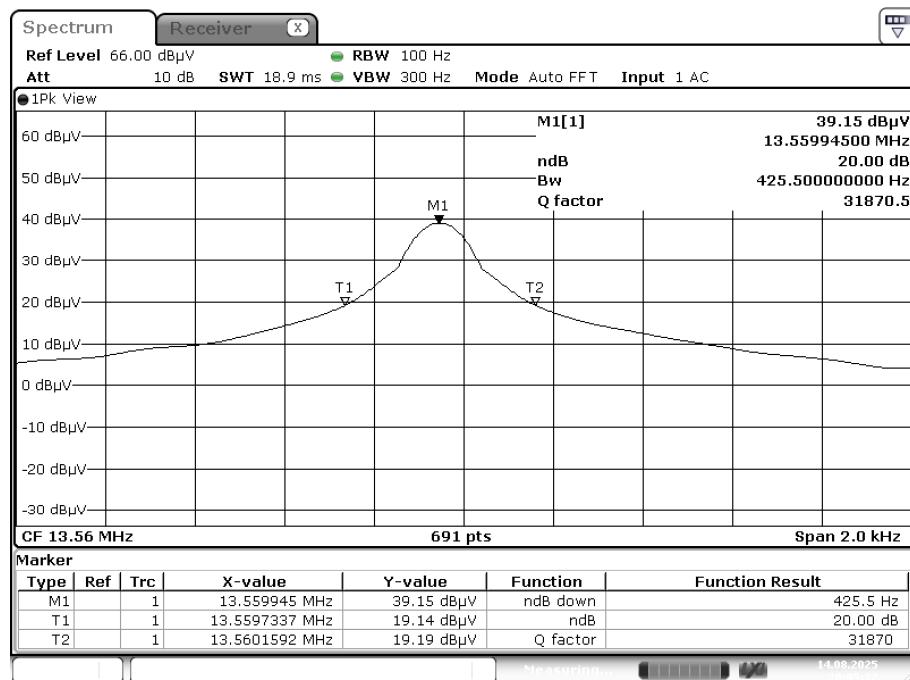


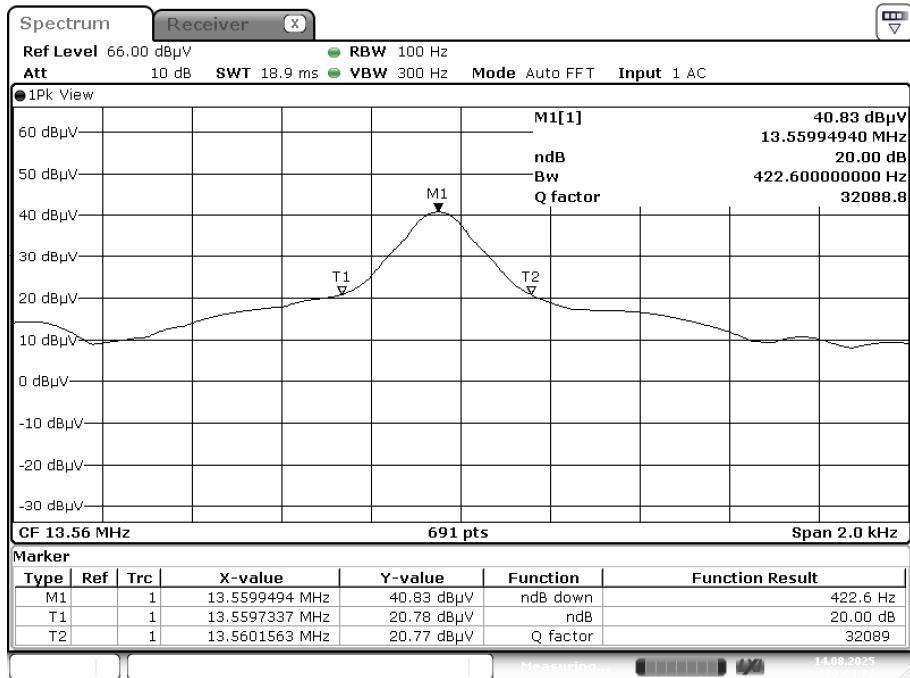
Test Data

Test Mode:	Transmitting	Test Engineer:	Wlif Wu
Test Date:	2025-08-14	Environment:	Temp.: 23.6°C Humi.: 56% Atm:100.1kPa

Test Result: Compliant

EUT Mode	Frequency (MHz)	20 dB Bandwidth (kHz)
swiping card	13.56	0.426
no card swiping	13.56	0.423

swiping card**20 dB Emission Bandwidth-13.56MHz**

no card swiping**20 dB Emission Bandwidth-13.56MHz**

ProjectNo.:2507V68747E-RF Tester:Wlif Wu

Date: 14.AUG.2025 20:04:28

EUT PHOTOGRAPHS

Please refer to the attachment 2507V68747E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507V68747E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507V68747E-RF-TSP-02 TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

***** END OF REPORT *****