



Project No: TM-2509000453P
Report No.: TMWK2509004187KR

FCC ID: 2BAFJ-TCTR03
IC: 34948-TCTR03

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Rev.: 01

FCC 47 CFR PART 15.225 & INDUSTRY CANADA RSS-210

TEST REPORT

For

LCD DISPLAY

Model No.: TPC-TR03

Trade Name: HP

Issued to

LABAU Technology Corp
9F No 531-1 Zhongzheng Rd., Xindian Dist, New Taipei City, 23148 Taiwan

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.
Issued Date: February 12, 2026

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 5, 2026	Initial Issue	ALL	Peggy Tsai
01	February 12, 2026	See the following Note Rev.(01)	P.34, 35	Peggy Tsai

Rev. (01)

1. Modify AC powerline conducted emissions data in section 7.4.

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1. TEST RESULT CERTIFICATION

Applicant: LABAU Technology Corp
9F No 531-1 Zhongzheng Rd., Xindian Dist, New Taipei City,
23148 Taiwan

Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto, CA94304, USA

Equipment Under Test: LCD DISPLAY

Trade Name: HP

Model No.: TPC-TR03

Date of Test: December 10, 2025 ~ February 11, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15.225 & RSS-210 Issue 11 and RSS-GEN Issue 5	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020, ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Approved by:



Shawn Wu
Supervisor

2. EUT DESCRIPTION

Product	LCD DISPLAY
Trade	HP
Model No. / HVIN	TPC-TR03
Model Discrepancy	N/A
Received Date	September 30, 2025
Power Supply	Power from Host System. (DC 5V)
Frequency Range	13.56MHz
Modulation Technique	ASK
Number of Channels	1 Channel
Antenna Specification	Type: Loop Antenna
PMN	LCD DISPLAY
EUT Serial #	2TP539ZAAE
HW Version	V25014B-1
SW Version	V2510310

Remark:

1. For more details, refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2020 and FCC CFR 47 Part 15.207, 15.209, 15.215, 15.225.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.3 RSS GEN SECTION 8.10 RESTRICTED BANDS OF OPERATIONS

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- (a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- (c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands ^{Note 1}			
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	608 - 614	9.0 - 9.2
0.495 - 0.505	16.69475 - 16.69525	960 - 1427	9.3 - 9.5
2.1735 - 2.1905	16.80425 - 16.80475	1435 - 1626.5	10.6 - 12.7
3.020 - 3.026	25.5 - 25.67	1645.5 - 1646.5	13.25 - 13.4
4.125 - 4.128	37.5 - 38.25	1660 - 1710	14.47 - 14.5
4.17725 - 4.17775	73 - 74.6	1718.8 - 1722.2	15.35 - 16.2
4.20725 - 4.20775	74.8 - 75.2	2200 - 2300	17.7 - 21.4
5.677 - 5.683	108 - 138	2310 - 2390	22.01 - 23.12
6.215 - 6.218	149.9 - 150.05	2483.5 - 2500	23.6 - 24.0
6.26775 - 6.26825	156.52475 -	2655 - 2900	31.2 - 31.8
6.31175 - 6.31225	156.52525	3260 - 3267	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3332 - 3339	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3345.8 - 3358	
8.37625 - 8.38675	167.72 - 173.2	3500 - 4400	
8.41425 - 8.41475	240 - 285	4500 - 5150	
12.29 - 12.293	322 - 335.4	5350 - 5460	
12.51975 - 12.52025	399.9 - 410	7250 - 7750	
12.57675 - 12.57725		8025 - 8500	
13.36 - 13.41			

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

3.4 DESCRIPTION OF TEST MODES

The EUT had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

All modes and data rates were investigated and it was determined that ISO 14443A/B, ISO 18092 Type y and ISO 15693 reader and FeliCa™ reader.

The frequency 13.56 MHz. The default channel to test, where it is the only manipulative channel as this application supports.

All data rates were investigated. Therefore, all testing was performed in ISO14443A and 106 Kbps mode was considered worst-case.

3.3.1 The worst mode of measurement

AC Power Line Conduction Emission	
Test Condition	AC Power line conduction emission for line and neutral
Power supply Mode	Mode 1: EUT power by Host system(SKU3) Mode 2: EUT power by Host system(SKU4)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Host System(SKU3) Mode 2: EUT power by Host System(SKU4)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission were performed the EUT transmit at the highest output power channel as worse case.
3. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report.
4. This product is available in four SKUs, listed below:
SKU 1: Display+Camera+No Touch
SKU 2: Display+Camera+Touch
SKU 3: Display+Camera+Touch+NFC
SKU 4: Display+Camera+Touch+NFC+Scanner

4. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-GEN Sec. 6.8	2	Antenna Requirement	Pass
15.215	RSS-GEN Sec 6.7	7.1	Occupied Bandwidth (99%) and 20dB Bandwidth	Pass
15.225 (a,b,c,d) 15.209 15.205	RSS-210 Sec B.6, a RSS-GEN Sec 8.9 / 8.10	7.2	Radiated Emissions	Pass
15.255 (e)	RSS-210 Sec B.6, b	7.3	Frequency Stability	Pass
15.207	RSS-GEN Sec. 8.8	7.4	AC Power-line Conducted Emission	Pass

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Conducted_FCC/IC/NCC (All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Constant Temperature Humidity Chamber	TERCHY	MHG-150LF	930619	2025-10-14	2026-10-13
Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23
DC Blocks	Marvelous Microwave	MVE6411	MVE-001	2025-08-06	2026-08-05
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14
Software	N/A				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Request.

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966A_Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2025-03-05	2026-03-04
Active Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB3	A030105&532	2025-06-26	2026-06-25
Preamplifier	EMEC	EM330	060609	2025-02-20	2026-02-19
Cable	Huber+Suhner	104PEA	20995+21000+182330	2025-08-06	2026-08-05
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2025-06-02	2026-06-01
LISN	TESEQ	LN2-16N	22012	2025-02-23	2026-02-22
Cable	Woken	RFC-SMA-100-NMR-084SFL402	MFR-2Y194	2025-03-21	2026-03-20
Software	e3 V9-210616c				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Request.

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	$\pm 2.37\text{dB}$
Channel Bandwidth	$\pm 2.85\text{dB}$
Frequency Stability	$\pm 2.74\text{dB}$
Radiated Emission_9kHz-30MHz	$\pm 2.750\text{ dB}$
Radiated Emission_30MHz-200MHz	$\pm 3.874\text{ dB}$
Radiated Emission_200MHz-1GHz	$\pm 4.065\text{ dB}$

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

5.4 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.
CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Marco Chan	-
Radiation	Tony Chao	-
RF Conducted	Tony Chao	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

6. SETUP OF EQUIPMENT UNDER TEST

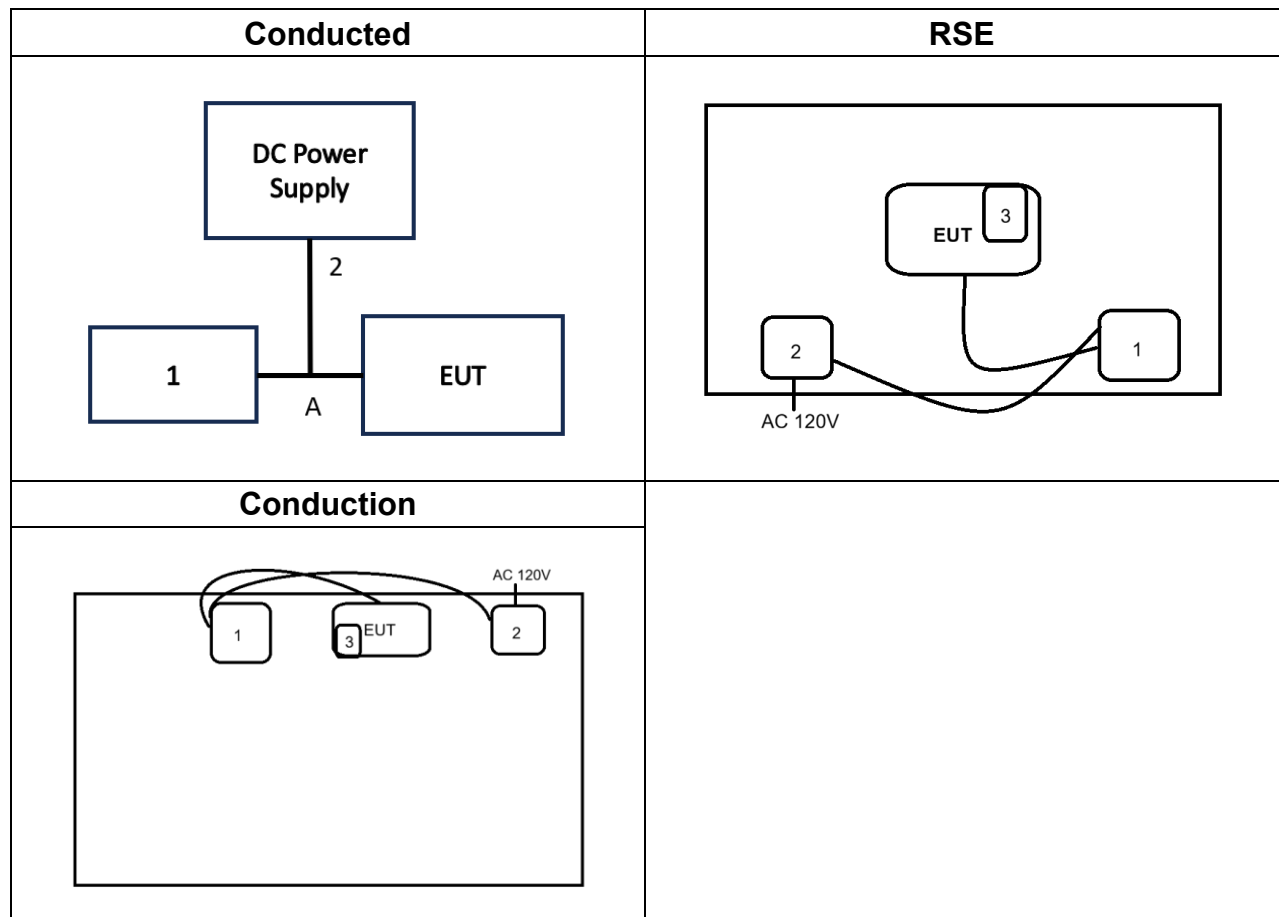
6.1 SUPPORT EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NFC Card	Winso	N/A	N/A	N/A
2	NB(B)	Lenovo	T470	N/A	N/A
A	DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A

Support Equipment (RSE & Conduction)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	NFC Card	N/A	NTAG213	N/A	N/A

6.2 SETUP CONFIGURATION OF EUT



6.3 TEST PROGRAM

This EUT uses the "VP3300Demo" tool and placing the card in the sensing area to set the frequency, modulation and power to allow continuous transmission of the sample.

7. FCC PART 15.225 REQUIREMENTS & RSS-210 REQUIREMENTS

7.1 OCCUPIED BANDWIDTH(99%) AND 20 DB BANDWIDTH TEST CONFIGURATION

Refer to section 6.2.

TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Set the spectrum analyzer as RBW & VBW (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth (VBW) shall not be smaller than three times the RBW value.
3. Record bandwidth-related parameters.

TEST RESULTS

Compliance

Temperature: 20.2 ~ 26.1°C
Humidity: 59 ~ 68% RH

Test Date: December 11 ~ 19, 2025
Tested by: Marco Chan

NFC					
Frequency (MHz)	20dB BW (kHz)	Operation range	Frequency (MHz)	Limit (MHz)	99% BW (kHz)
13.56	2.481	Low	13.558940	>13.11	2.105
		High	13.561045	<14.01	

Remark:

Because the measured signal adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

Test Plot



7.2 FUNDAMENTAL AND RADIATED EMISSIONS

LIMIT

According to §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 and shall not exceed the general radiated emission limits in §15.209.

According to §15.225, except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m at meter)	Measurement Distance (meter)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to RSS 210 §B.6

The field strength of any emission shall not exceed the following limits:

- (a) 15.848 mV/m (84 dBµV/m) at 30 m, within the band 13.553-13.567 MHz;
- (b) 334 µV/m (50.5 dBµV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz;
- (c) 106 µV/m (40.5 dBµV/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz; and
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz.

Below 30 MHz

Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement Distance (metres)
9-490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

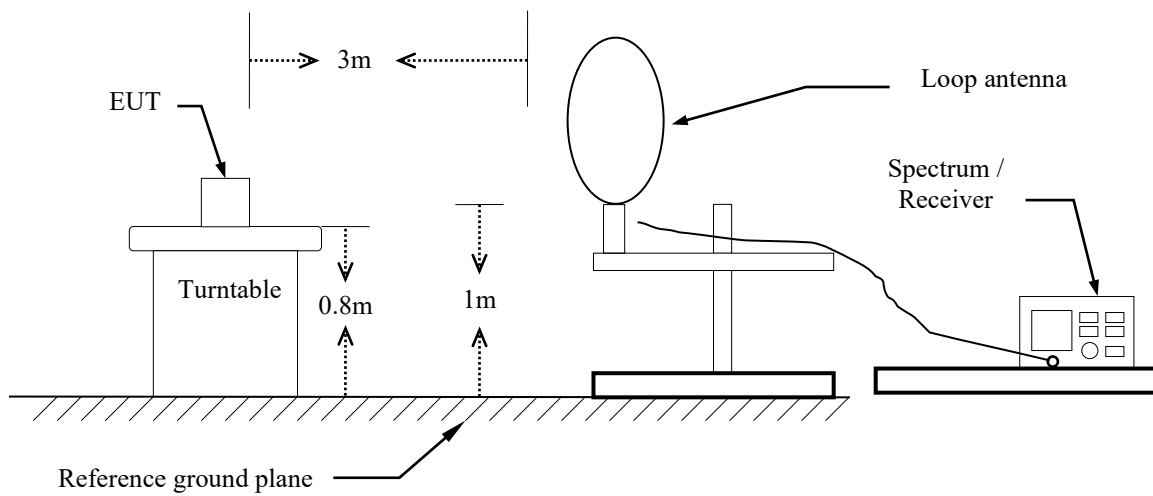
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Above 30 MHz

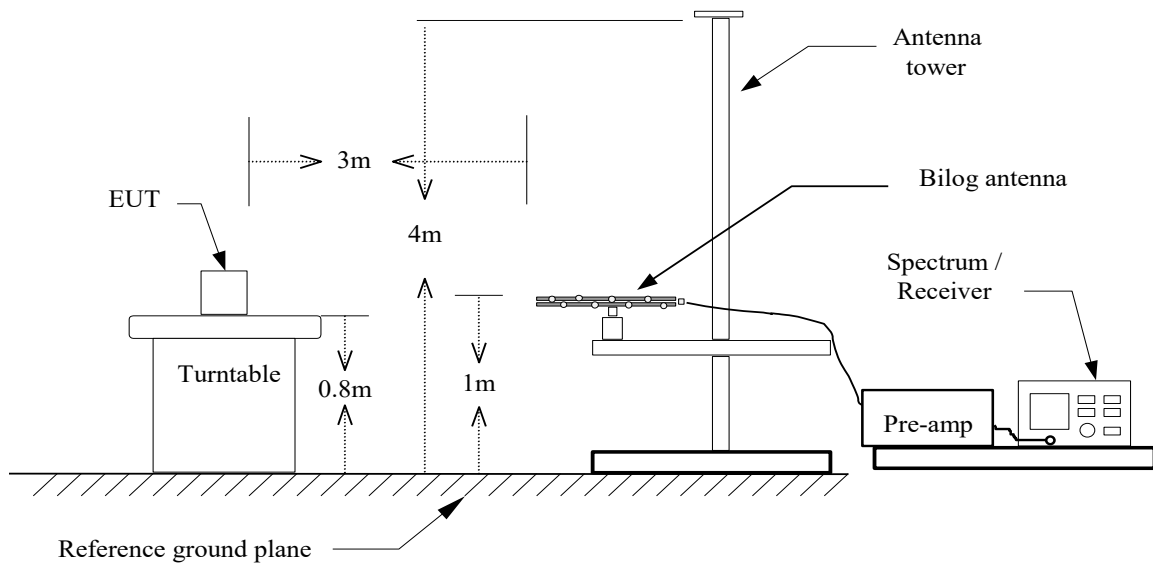
Frequency	Field strength (µV/m at 3 m)
30-88	100
88-216	150
216-960	200
Above 960	500

Test Configuration

9kHz ~ 30MHz



30MHz ~ 1GHz



TEST PROCEDURE

For 9kHz ~ 30MHz

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.
3. EUT is set 3m away from the receiving antenna, The lower edge of the loop shall be 1 m above the ground then to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Set the spectrum analyzer in the following setting as:
9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO
490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO
6. Repeat above procedures until the measurements for all frequencies are complete.

For 30MHz ~ 1GHz

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.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m 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. Set the spectrum analyzer in the following setting as:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

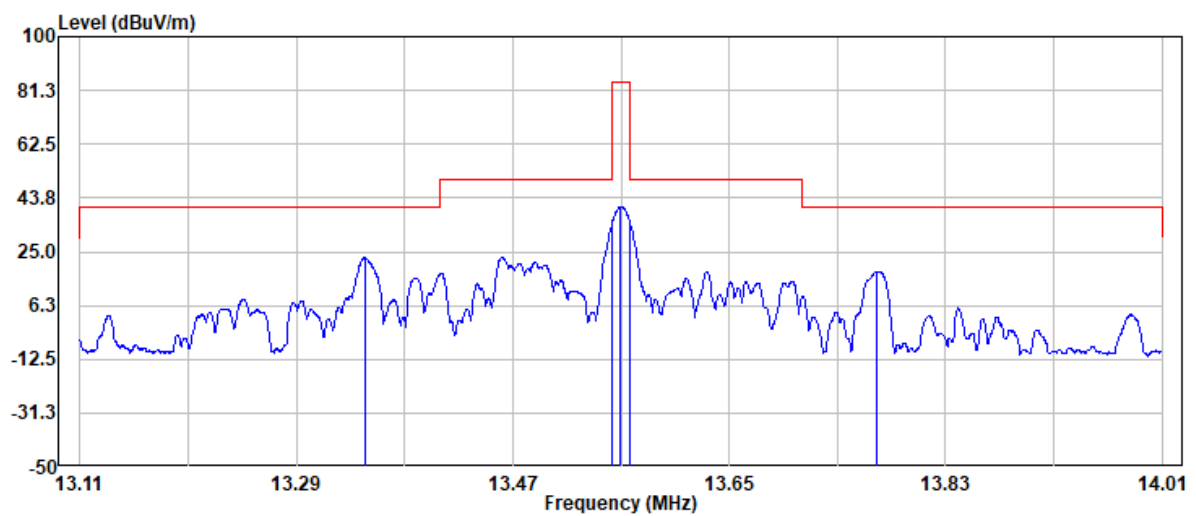
Remark :

1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Test Data: Main

Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : Main
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



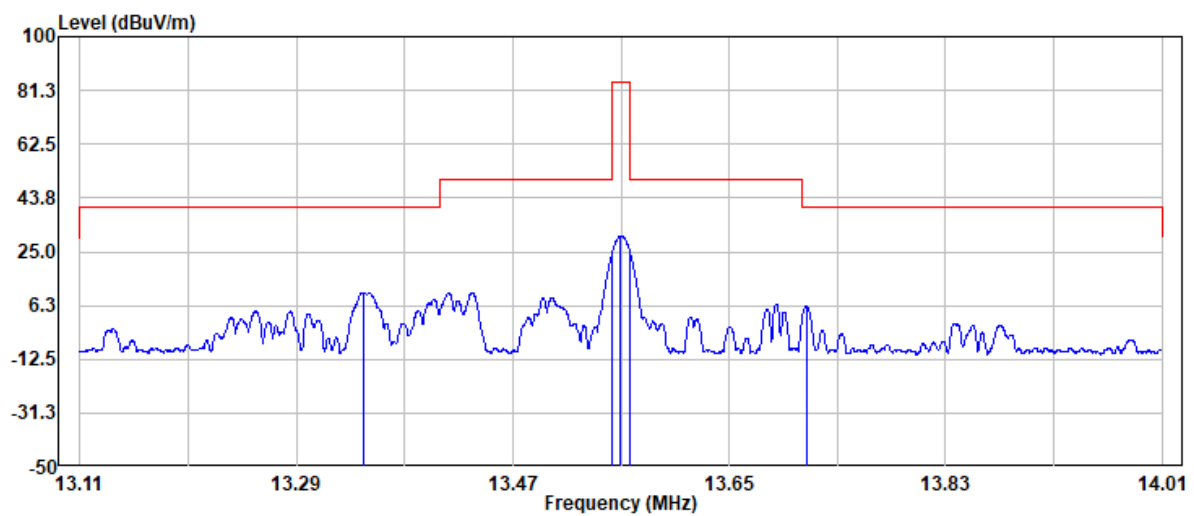
Freq	Read Level	Factor	Actual	Factor	Actual	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
13.35	46.85	16.08	62.93	-40.00	22.93	40.51	-17.58	Peak
13.55	59.72	16.04	75.76	-40.00	35.76	50.47	-14.71	Peak
13.56	64.56	16.04	80.60	-40.00	40.60	84.00	-43.40	Peak
13.57	60.17	16.03	76.21	-40.00	36.21	50.47	-14.26	Peak
13.77	42.17	15.99	58.17	-40.00	18.17	40.51	-22.34	Peak

Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss

Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : Main
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual	Factor	Actual	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
13.35	34.62	16.08	50.70	-40.00	10.70	40.51	-29.81	Peak
13.55	48.10	16.04	64.14	-40.00	24.14	50.47	-26.33	Peak
13.56	54.30	16.04	70.34	-40.00	30.34	84.00	-53.66	Peak
13.57	50.36	16.03	66.40	-40.00	26.40	50.47	-24.07	Peak
13.71	29.99	16.01	46.00	-40.00	6.00	40.51	-34.51	Peak

Remark:

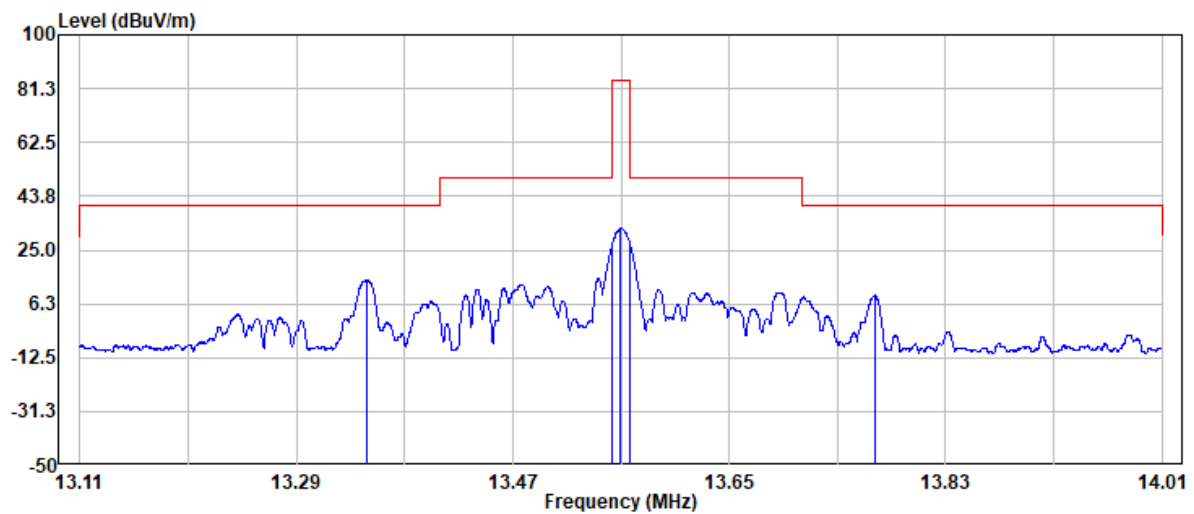
1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss

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Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : Main
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : Ground
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual	Factor	Actual	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
13.35	38.44	16.08	54.52	-40.00	14.52	40.51	-25.99	Peak
13.55	51.60	16.04	67.64	-40.00	27.64	50.47	-22.83	Peak
13.56	56.44	16.04	72.48	-40.00	32.48	84.00	-51.52	Peak
13.57	51.99	16.03	68.03	-40.00	28.03	50.47	-22.44	Peak
13.77	33.16	16.00	49.16	-40.00	9.16	40.51	-31.35	Peak

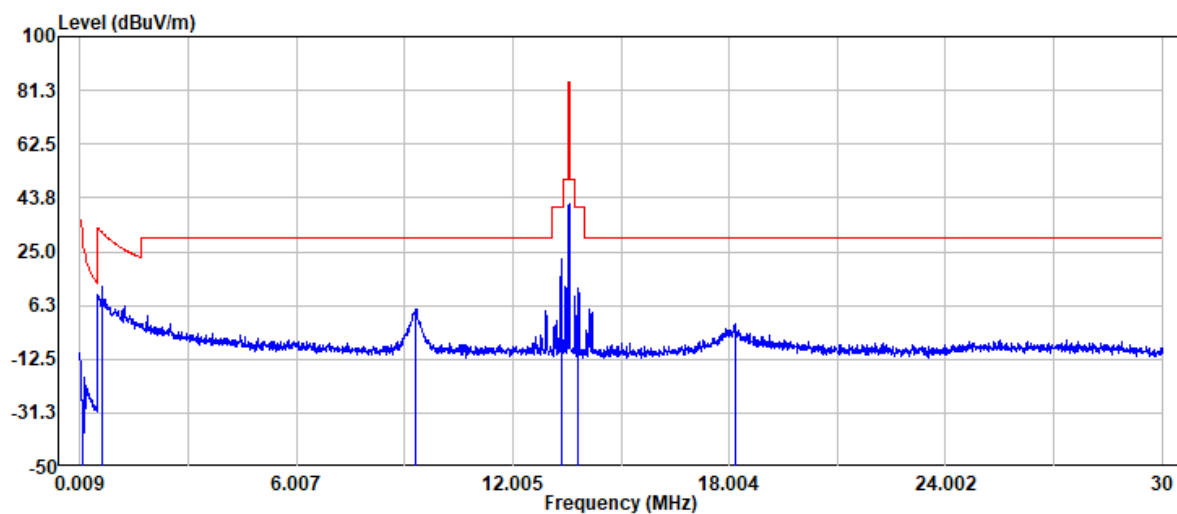
Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss

Test Data: 9kHz ~ 30MHz

Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : TX
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.06	39.77	13.37	53.14	-80.00	-26.86	31.42	-58.28	Peak
0.63	39.18	13.82	53.00	-40.00	13.00	31.65	-18.65	Peak
9.29	29.13	15.61	44.74	-40.00	4.74	29.54	-24.80	Peak
13.34	46.09	16.08	62.17	-40.00	22.17	40.51	-18.34	Peak
13.83	36.42	15.98	52.40	-40.00	12.40	40.51	-28.11	Peak
18.16	22.76	17.02	39.78	-40.00	-0.22	29.54	-29.76	Peak

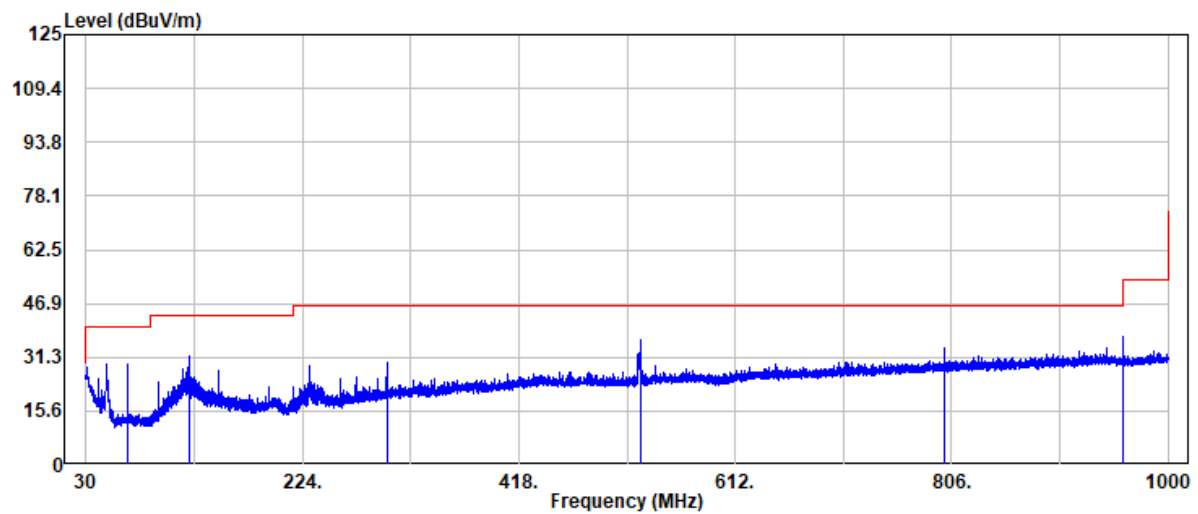
Remark:

- 9kHz to 490kHz Limit(@3m) = 2400(F/kHz)
490kHz to 1.705MHz Limit (@3m) = 2400(F/kHz)
1.705MHz to 30MHz Limit (@3m) = 29.54
- Distance factor=40log(300m/3m)@9-490kHz ; 40log(30m/3m)@490kHz-30MHz
- Result=Read level+Factor@3m-Distance factor
- After pre-scanning the main wave, only the worst polarization is evaluated and recorded in the report.

Test Data: 30MHz ~ 1GHz

Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : TX
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



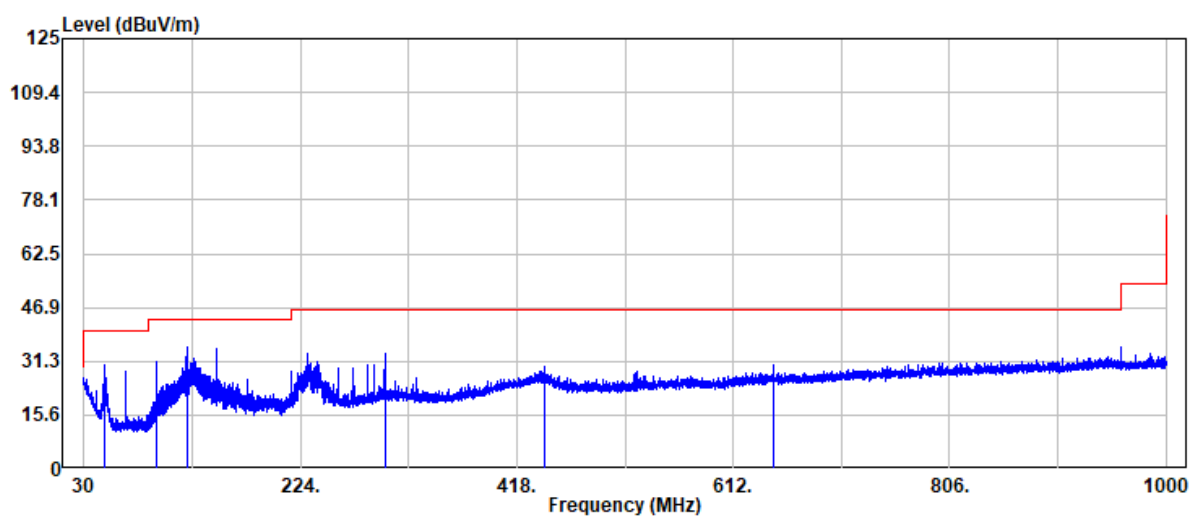
Freq	Read		Actual	Limit		Detector
MHz	Level	Factor	FS	@3m	Margin	Mode
	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
67.80	44.95	-15.58	29.37	40.00	-10.63	Peak
122.10	41.42	-9.58	31.84	43.50	-11.66	Peak
300.00	38.84	-9.29	29.55	46.00	-16.45	Peak
527.10	40.38	-4.12	36.26	46.00	-9.74	Peak
800.10	33.56	0.37	33.93	46.00	-12.07	Peak
960.10	35.22	2.27	37.49	54.00	-16.51	Peak

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Project No : TM-2509000453P
Operation Band : NFC
Frequency : 13.56 MHz
Operation Mode : TX
EUT Pol : H
Setting :

Test Date : 2025-12-10
Temp./Humi. : 25.6/52
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
48.70	45.60	-15.37	30.23	40.00	-9.77	Peak
94.90	46.26	-15.00	31.26	43.50	-12.24	Peak
122.00	44.96	-9.57	35.39	43.50	-8.11	Peak
300.00	42.79	-9.29	33.50	46.00	-12.50	Peak
443.00	35.03	-5.49	29.54	46.00	-16.46	Peak
648.00	31.90	-1.69	30.21	46.00	-15.79	Peak

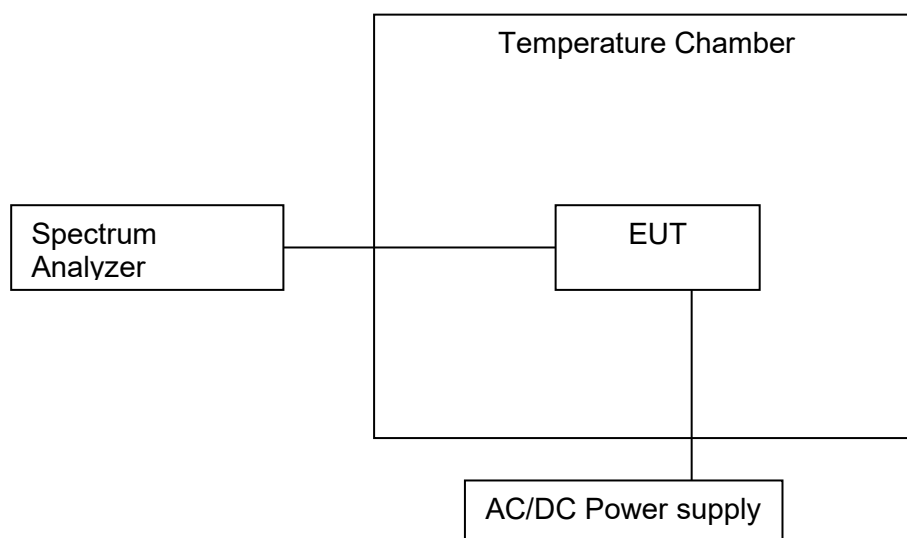
7.3 FREQUENCY STABILITY

LIMIT

According to §15.225(e) and RSS-210, B.6,
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 Configuration

Temperature and Voltage Measurement (under normal and extreme test conditions)



TEST PROCEDURE

1. Turn the EUT off, and place it inside the environmental temperature chamber.
2. 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.
3. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
4. Turn the EUT on and record the operating frequency at startup and two, five, and ten minutes after the EUT is energized.
5. Switch off the EUT and Lower the chamber temperature by not more than 10 °C and allow the temperature inside the chamber to stabilize.
6. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
7. Repeat step 4 through step 6 down to the specified temperature.

TEST RESULTS

Compliance

Temperature: 20.2 ~ 26.1°C

Test Date: December 11 ~ 19, 2025

Humidity: 59 ~ 68% RH

Tested by: Marco Chan

TEST DATA

Startup				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5	-10	13.5599983	-0.00170	+/- 1.356
5	0	13.5599973	-0.00270	+/- 1.356
5	10	13.5599827	-0.01730	+/- 1.356
5	20	13.5599925	-0.00750	+/- 1.356
5	30	13.5599858	-0.01420	+/- 1.356
5	40	13.5599924	-0.00760	+/- 1.356
5	50	13.5600022	0.00220	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5.25	20	13.5600012	0.00120	+/- 1.356
5	20	13.5599925	-0.00750	+/- 1.356
4.75	20	13.5599934	-0.00660	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer

2 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5	-10	13.5600017	0.00170	+/- 1.356
5	0	13.5599910	-0.00900	+/- 1.356
5	10	13.5599956	-0.00440	+/- 1.356
5	20	13.5599944	-0.00560	+/- 1.356
5	30	13.5599995	-0.00050	+/- 1.356
5	40	13.5599960	-0.00400	+/- 1.356
5	50	13.5599946	-0.00540	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5.25	20	13.5599840	-0.01600	+/- 1.356
5	20	13.5599944	-0.00560	+/- 1.356
4.75	20	13.5600017	0.00170	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer

5 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5	-10	13.5599977	-0.00230	+/- 1.356
5	0	13.5599962	-0.00380	+/- 1.356
5	10	13.5599878	-0.01220	+/- 1.356
5	20	13.5600024	0.00240	+/- 1.356
5	30	13.5599880	-0.01200	+/- 1.356
5	40	13.5599843	-0.01570	+/- 1.356
5	50	13.5599981	-0.00190	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5.25	20	13.5599831	-0.01690	+/- 1.356
5	20	13.5600024	0.00240	+/- 1.356
4.75	20	13.5599989	-0.00110	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer

10 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5	-10	13.5599877	-0.01230	+/- 1.356
5	0	13.5599951	-0.00490	+/- 1.356
5	10	13.5599887	-0.01130	+/- 1.356
5	20	13.5599956	-0.00440	+/- 1.356
5	30	13.5600007	0.00070	+/- 1.356
5	40	13.5599970	-0.00300	+/- 1.356
5	50	13.5599898	-0.01020	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
5.25	20	13.5599972	-0.00280	+/- 1.356
5	20	13.5599956	-0.00440	+/- 1.356
4.75	20	13.5599968	-0.00320	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer

7.4 AC POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a) and RSS-Gen §8.8 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 Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

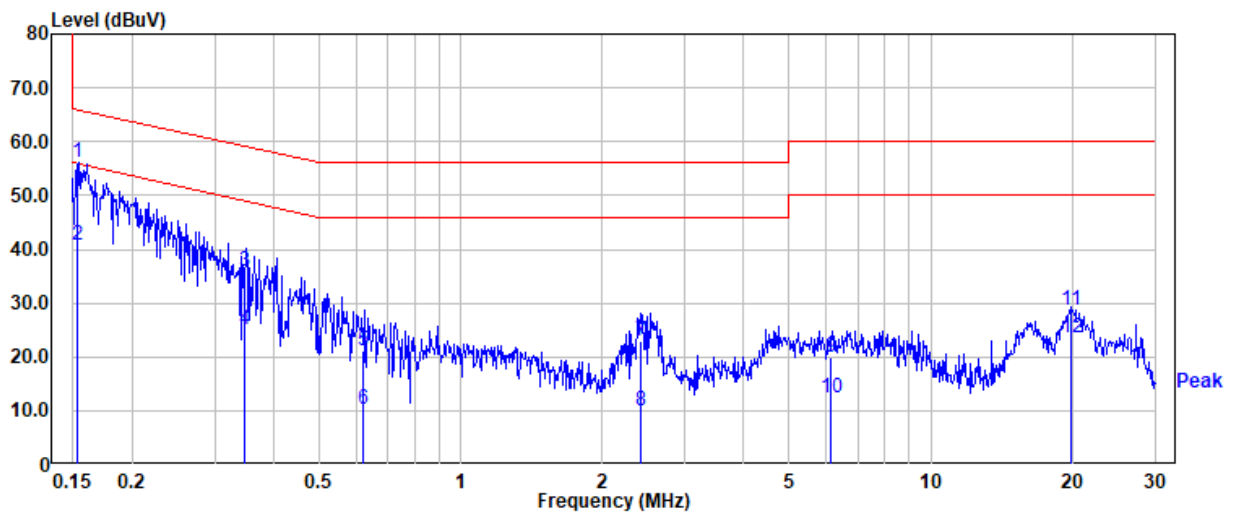
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked and Average measurement records.

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Project No : TM-2509000453P
Operation Band : NFC
Test Chamber : Conduction
Probe : Line
Note :

Test Date : 2025-12-10
Temp./Humi. : 25°C / 65%
Engineer : Tony.Chao
Test Voltage : AC 120V/60Hz



Freq	Read	Factor	Actual	Limit	Margin	Detector
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV	dBuV	dB	PK/QP/AV
0.154	55.96	0.09	56.05	65.79	-9.74	QP
0.154	40.73	0.09	40.82	55.79	-14.97	Average
0.348	35.85	0.07	35.92	59.00	-23.08	QP
0.348	25.03	0.07	25.10	49.00	-23.90	Average
0.622	21.03	0.07	21.10	56.00	-34.90	QP
0.622	10.17	0.07	10.24	46.00	-35.76	Average
2.424	22.90	0.12	23.02	56.00	-32.98	QP
2.424	9.98	0.12	10.10	46.00	-35.90	Average
6.153	19.64	0.18	19.82	60.00	-40.18	QP
6.153	12.20	0.18	12.38	50.00	-37.62	Average
19.869	28.24	0.35	28.59	60.00	-31.41	QP
19.869	23.19	0.35	23.54	50.00	-26.46	Average

Note: 1. Actual FS= Spectrum Read Level + Factor

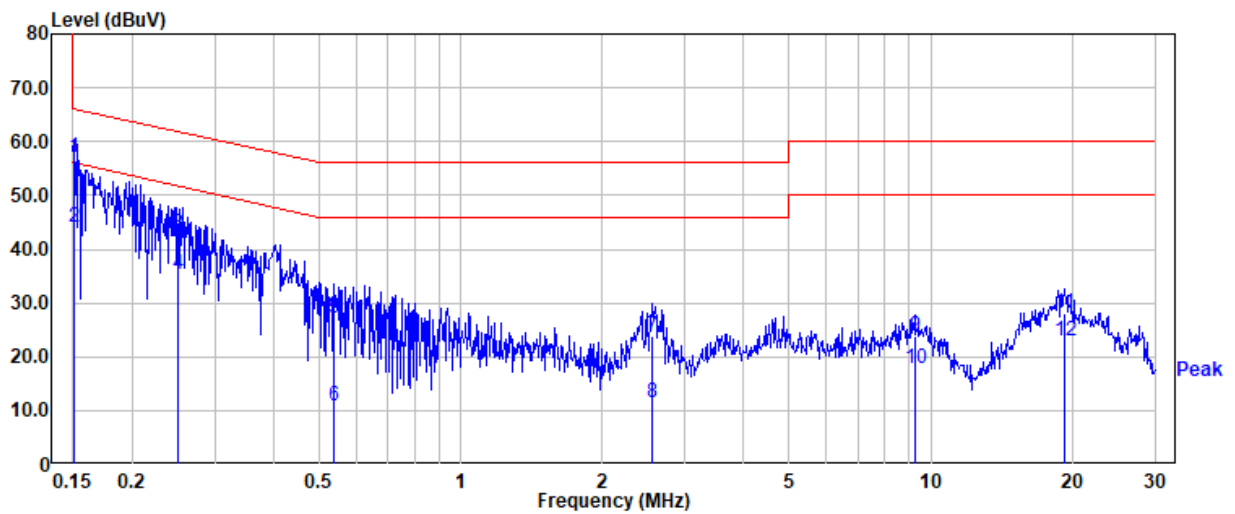
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2509000453P
Operation Band : NFC
Test Chamber : Conduction
Probe : Neutral
Note :

Test Date : 2025-12-10
Temp./Humi. : 25°C / 65%
Engineer : Tony.Chao
Test Voltage : AC 120V/60Hz



Freq	Read Level	Factor	Actual FS	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV	dBuV	dB	PK/QP/AV
0.150	57.04	0.10	57.14	65.98	-8.84	QP
0.150	43.84	0.10	43.94	55.98	-12.04	Average
0.250	42.82	0.09	42.91	61.74	-18.83	QP
0.250	35.33	0.09	35.42	51.74	-16.32	Average
0.539	26.94	0.08	27.02	56.00	-28.98	QP
0.539	10.81	0.08	10.89	46.00	-35.11	Average
2.549	23.70	0.14	23.84	56.00	-32.16	QP
2.549	11.42	0.14	11.56	46.00	-34.44	Average
9.272	23.65	0.23	23.88	60.00	-36.12	QP
9.272	17.59	0.23	17.82	50.00	-32.18	Average
19.291	27.84	0.35	28.19	60.00	-31.81	QP
19.291	22.58	0.35	22.93	50.00	-27.07	Average

Note: 1. Actual FS= Spectrum Read Level + Factor

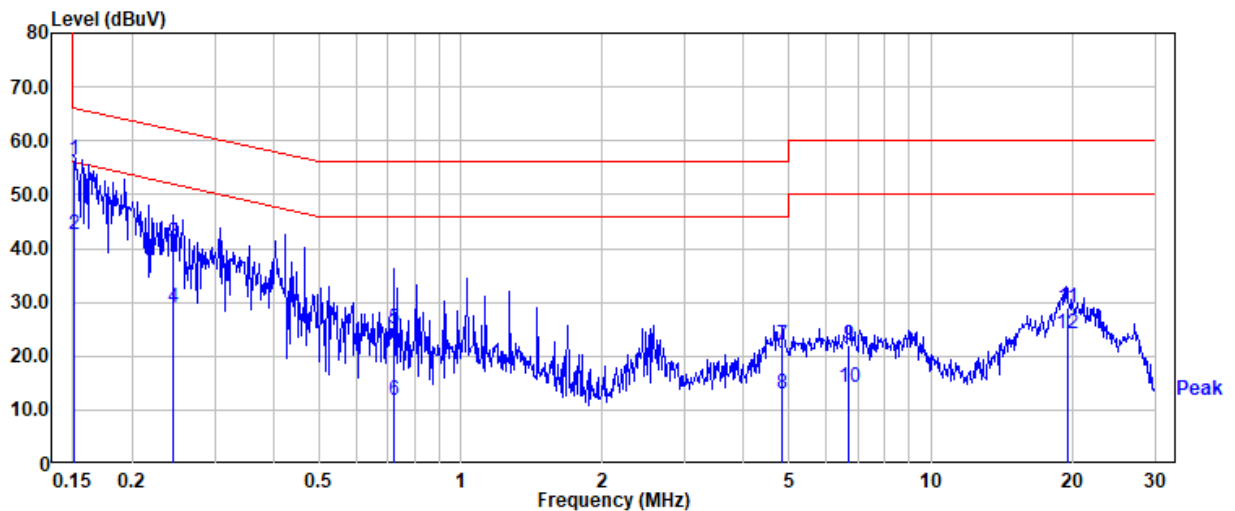
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2509000453P
Operation Band : NFC
Test Chamber : Conduction
Probe : Line
Note : Antenna Terminal

Test Date : 2026-02-11
Temp./Humi. : 25°C / 65%
Engineer : Tony.Chao
Test Voltage : AC 120V/60Hz



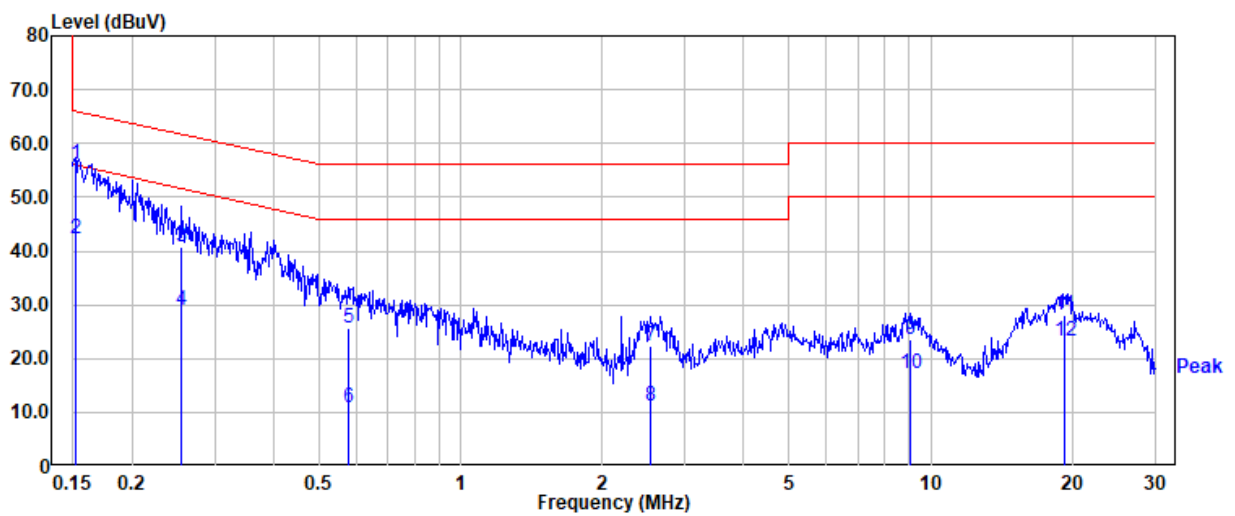
Freq	Read Level	Factor	Actual FS	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV	dBuV	dB	PK/QP/AV
0.151	56.33	0.09	56.42	65.94	-9.52	QP
0.151	42.40	0.09	42.49	55.94	-13.45	Average
0.246	40.97	0.08	41.05	61.90	-20.85	QP
0.246	28.89	0.08	28.97	51.90	-22.93	Average
0.724	25.07	0.08	25.15	56.00	-30.85	QP
0.724	11.64	0.08	11.72	46.00	-34.28	Average
4.846	21.93	0.16	22.09	56.00	-33.91	QP
4.846	12.93	0.16	13.09	46.00	-32.91	Average
6.717	21.70	0.19	21.89	60.00	-38.11	QP
6.717	14.05	0.19	14.24	50.00	-35.76	Average
19.513	28.73	0.35	29.08	60.00	-30.92	QP
19.513	23.95	0.35	24.30	50.00	-25.70	Average

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

Project No : TM-2509000453P
Operation Band : NFC
Test Chamber : Conduction
Probe : Neutral
Note : Antenna Terminal

Test Date : 2026-02-11
Temp./Humi. : 25°C / 65%
Engineer : Tony.Chao
Test Voltage : AC 120V/60Hz



Freq	Read Level	Factor	Actual FS	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV	dBuV	dB	PK/QP/AV
0.152	55.93	0.10	56.03	65.90	-9.87	QP
0.152	42.10	0.10	42.20	55.90	-13.70	Average
0.256	40.63	0.09	40.72	61.57	-20.85	QP
0.256	28.84	0.09	28.93	51.57	-22.64	Average
0.577	25.69	0.09	25.78	56.00	-30.22	QP
0.577	10.76	0.09	10.85	46.00	-35.15	Average
2.542	22.21	0.14	22.35	56.00	-33.65	QP
2.542	10.90	0.14	11.04	46.00	-34.96	Average
9.050	23.24	0.23	23.47	60.00	-36.53	QP
9.050	16.90	0.23	17.13	50.00	-32.87	Average
19.224	27.77	0.35	28.12	60.00	-31.88	QP
19.224	22.88	0.35	23.23	50.00	-26.77	Average

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

- End of Test Report -