

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description LEDGER FLEX
Applicant: LEDGER SAS
106 Rue du Temple, 75003 Paris, France
Manufacturer: LEDGER SAS
106 Rue du Temple, 75003 Paris, France
Brand Name: [L] or [LEDGER]
Model No.: 0908
Report Number: TERF2507002465E2
FCC ID 2ASAL-0908
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2507002467E2, for more details please refer to section 2 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number TERF2507002467E2, for more details please refer to section 2 in this report.
Issue Date: September 19, 2025

Arno Hsieh

Approved By

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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 and the energy emitted by the sample EUT comply with FCC rule part §15.225.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2507002465E2	00	Class II permissive change for BLE/NFC optimization	September 19, 2025	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of trademarks is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is an addendum test report reference to the test report *TERF2405001455E2*, full testing has been performed to demonstrate compliance.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	LEDGER FLEX
Brand Name:	[L] or [LEDGER]
Model No.:	0908
Hardware Version:	MP
Firmware Version:	MCU 6.5.2 + SE 1.2.2
EUT Series No.:	N/A
Power Supply:	3.8 Vdc
Test Software (Name/Version)	Termite V3.4

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 8.17dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Coil Antenna

Note:

1. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.
2. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.3 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst-case scenario.
4. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
5. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
FREQUENCY STABILITY			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
20dB and 99% BANDWIDTH			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands	Compliant

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2507002467E2.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

ANSI C63.10:2020.

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Frequency Stability	+/- 1.48 Hz
Emission Bandwidth	+/- 1.38 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.				

Temperature:	22.9	°C	Relative Humidity:	60	%
Test site	Conducted C		Test Start:	08/22/2025	
Test Engineer:	Joey You		Test Done:	08/22/2025	

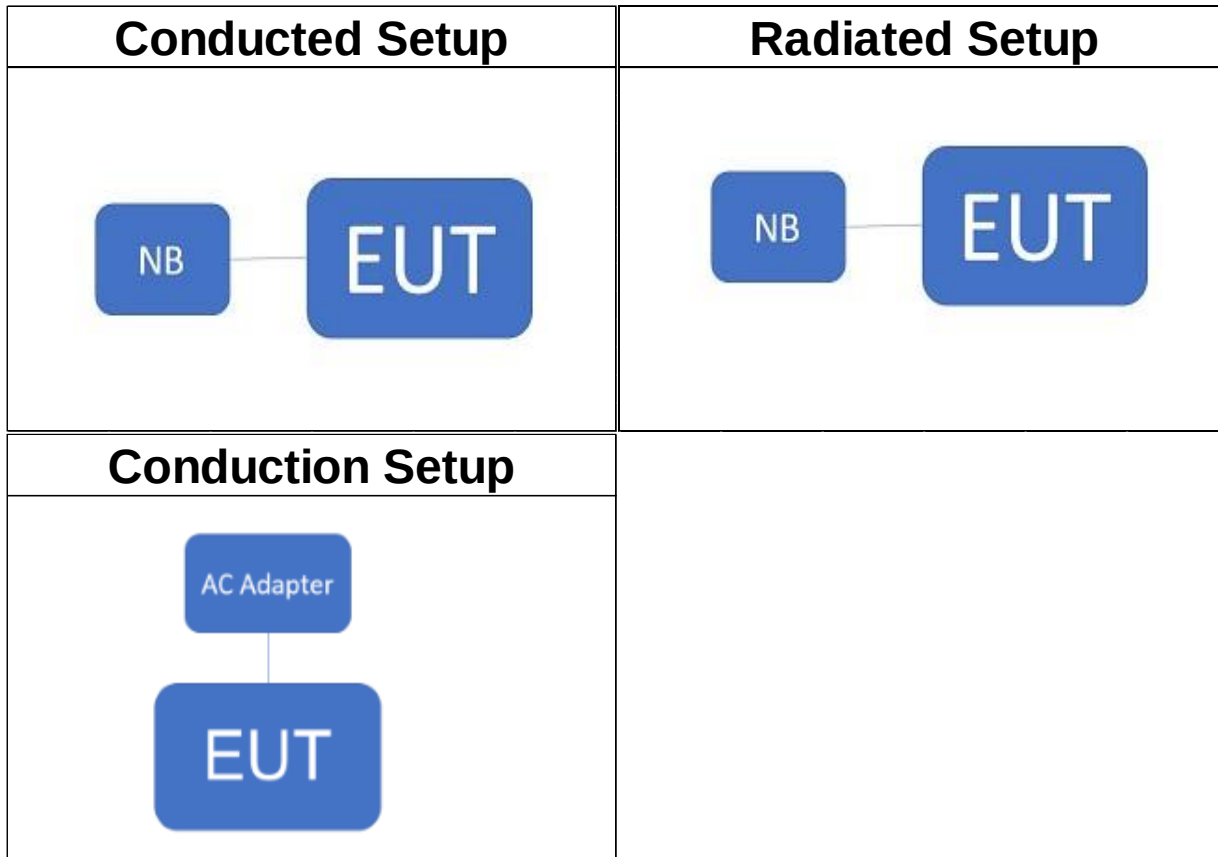
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 Diagram



3.2 List

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	MI	SJX10ZM	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	Interplus Industry Co., Ltd	ADV-7570214	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Adapter	Samsung Electronic Co.Ltd.	EP-T1510	N/A	N/A	N/A
USB Cable	Interplus Industry Co., Ltd	ADV-7570214	N/A	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53140006	05/19/2025	05/18/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/02/2025	04/01/2026
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2025	06/22/2026
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/06/2024	11/05/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2 310002+15	11/14/2024	11/13/2025
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/30/2025	06/29/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Radiated Emission

5.1.1 Field Strength of Fundamental Emission

KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification:

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Frequency of Emission (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m
1.705~13.110	30	29.5
13.110~13.410	106	40.5
13.410~13.553	334	50.5
13.553~13.567	15848	84
13.567~13.710	334	50.5
13.710~14.010	106	40.5
14.010~30.00	30	29.5

Distance Extrapolation Factor

30m to 3m: Distance extrapolation = $40 \cdot \log(30/3) = 40 \text{ dB}$

30m to 10m: Distance extrapolation = $40 \cdot \log(30/10) = 19.08 \text{ dB}$

10m to 3m: Distance extrapolation = $40 \cdot \log(10/3) = 20.92 \text{ dB}$

Note:

1. Distance extrapolation factor = $40 \log(\text{required distance} / \text{test distance}) \text{ (dB)}$
2. The lower limit shall apply at the transition frequencies.

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5.2 Radiated Spurious Emission Measurement

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits as below.

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. Emission level in $\text{dB}\mu\text{V/m}=20 \log (\mu\text{V/m})$
2. Distance extrapolation factor = $40 \log (\text{required distance/ test distance})$ (dB)
3. $20*\log(30\mu\text{V/m}) = 29.54 \text{ dB}\mu\text{V/m}$
4. The lower limit shall apply at the transition frequencies.
5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
6. The general radiated emission limits apply to spurious emissions generated by the UE, except for fundamental emissions where specific provisions are stated in the relevant sections.

5.3 Frequency Stability

The frequency tolerance of the carrier signal shall be maintained within +/- 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.

5.4 Emission Bandwidth

The 20 dB and 99% bandwidth shall be specified in operating frequency band.

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5.5 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBUV)	
	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

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.6 Antenna Requirement

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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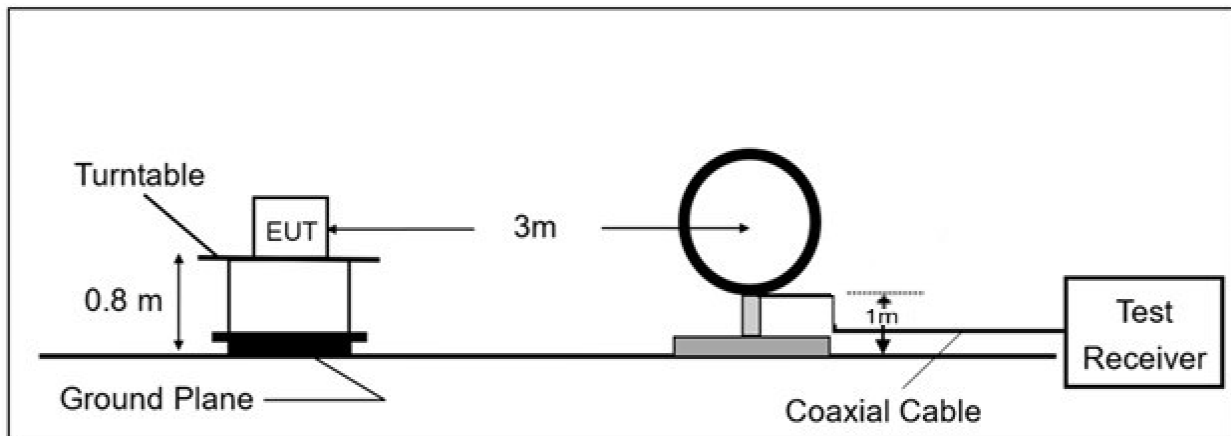
6 TEST CONFIGURATION

6.1 Radiated Emission

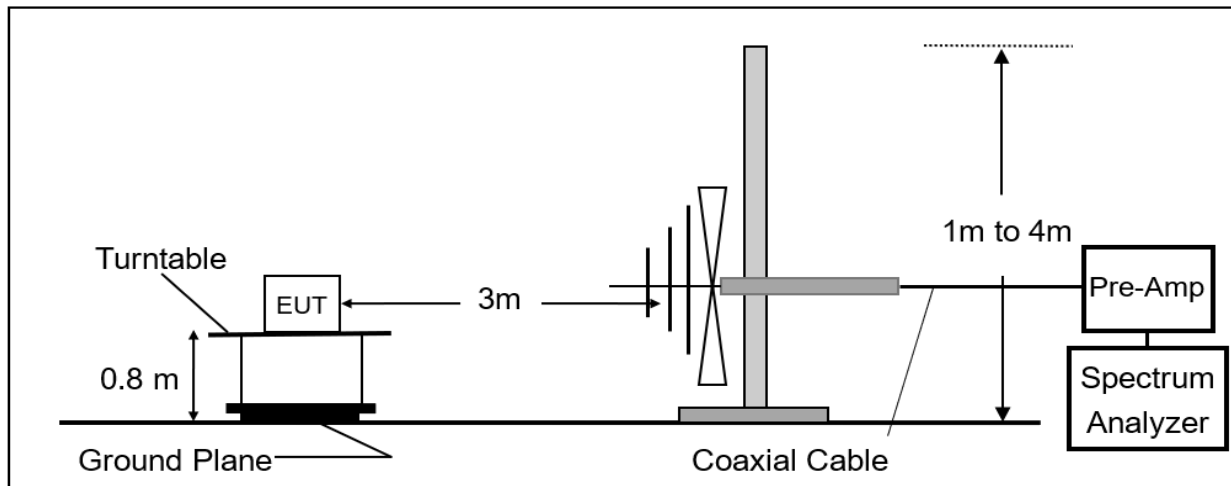
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



1. Configure the EUT according to ANSI C63.10.
2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.

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5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all default test channel measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits and hence not reported.

6.1.1 Field Strength Calculation

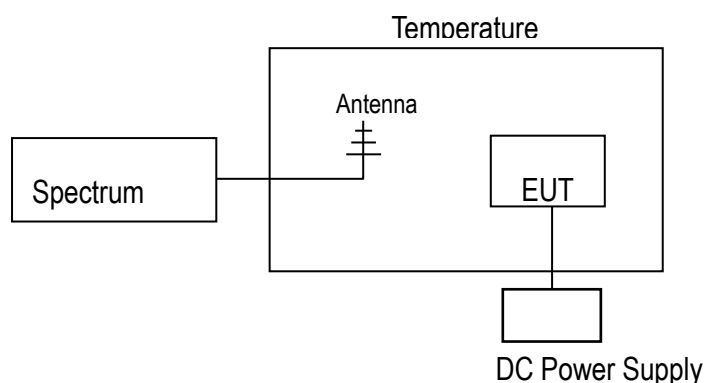
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

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

*The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)*

6.2 Frequency Stability

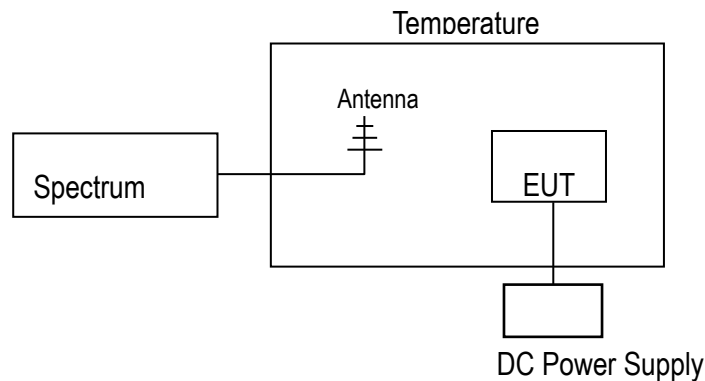


1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW= 10kHz,
VBW= 10kHz,
Span =100kHz.
4. Set SPA Max hold. Mark peak.

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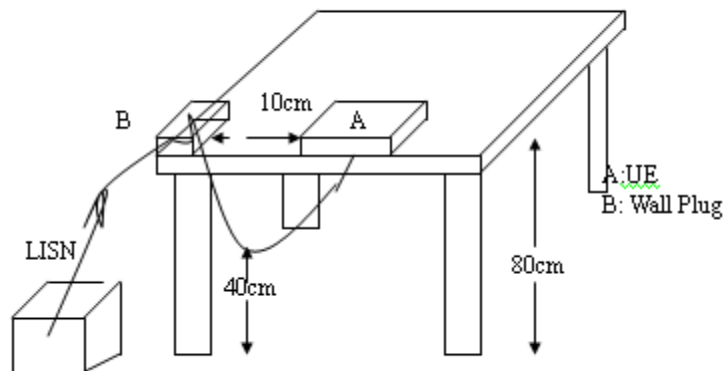
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6.3 Emission Bandwidth



1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW=1% to 5% OBW and without going below 0.1kHz,
VBW $\geq$ 3 x RBW,
Span = 2 to 5 times OBW
4. Use the 99% power bandwidth and X dB bandwidth mode function of the spectrum analyzer and set to 20dB

6.4 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both

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lines of the power mains connected to the EUT were checked for maximum conducted interference.

3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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7 TEST RESULTS

7.1 Field Strength Calculation

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

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

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

Actual FS(dBμV/m) = Spectrum. Reading level(dBμV) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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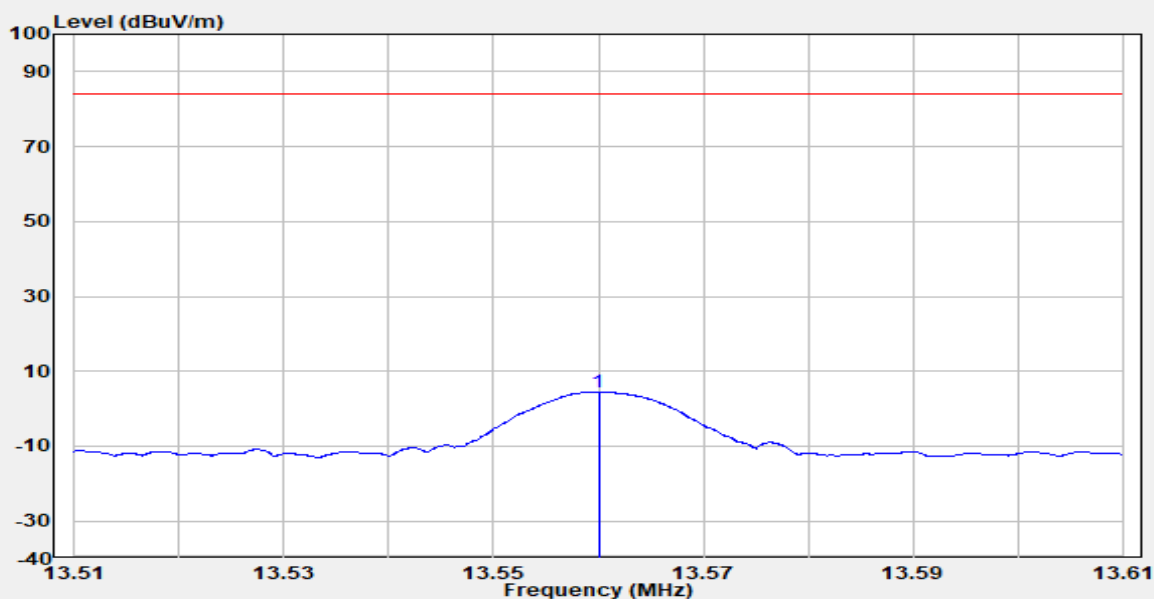
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7.1.1 Field Strength of Fundamental Emission Measurement Result

Report Number :TERF2507002467E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-08
Temp./Humi. :22.5°C/59%
Antenna Pol. :Parallel
Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	29.31	-24.90	4.41	84.00	-79.59

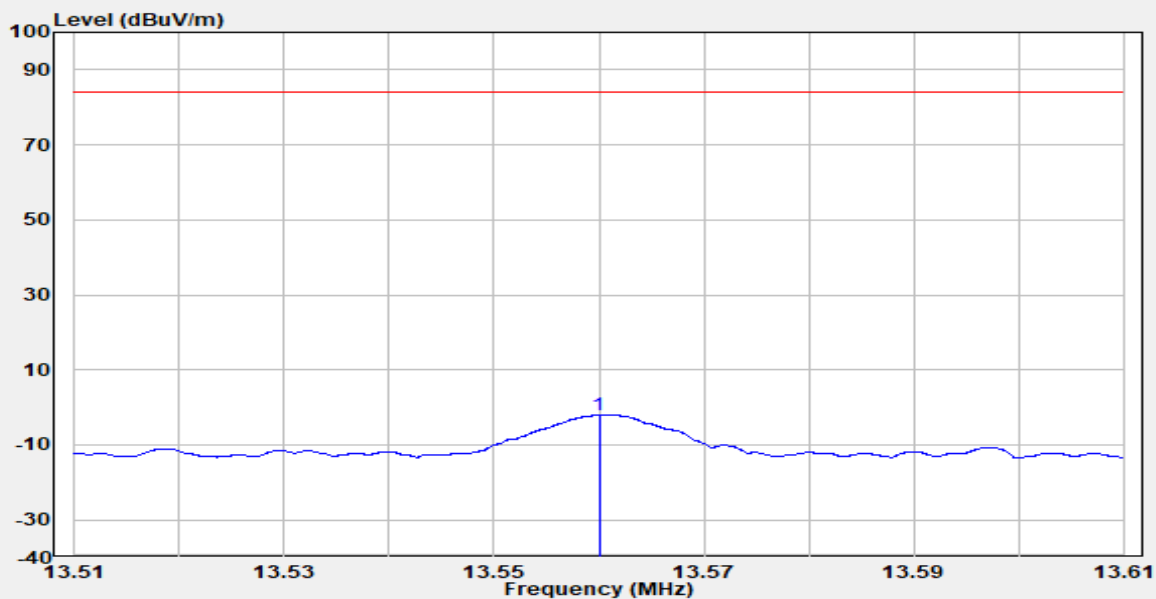
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Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Perpendicular
 Engineer :Jacky Chen



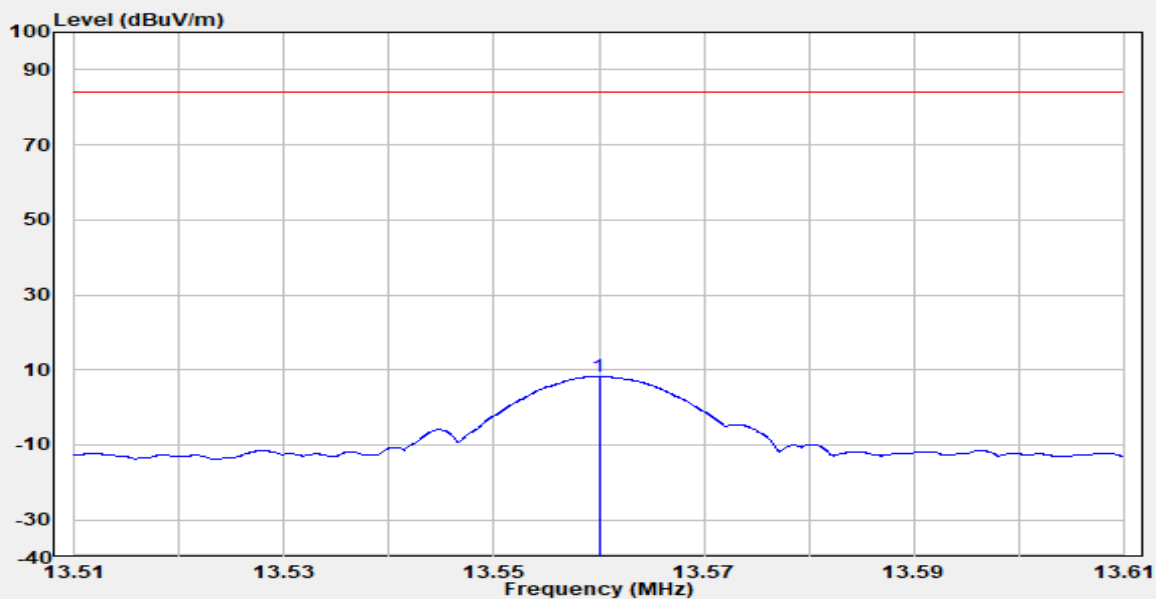
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.560	Peak	22.83	-24.90	-2.07	84.00	-86.07

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Report Number :TERF2507002467E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-08
Temp./Humi. :22.5°C/59%
Antenna Pol. :Ground Parallel
Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.560	Peak	33.07	-24.90	8.17	84.00	-75.83

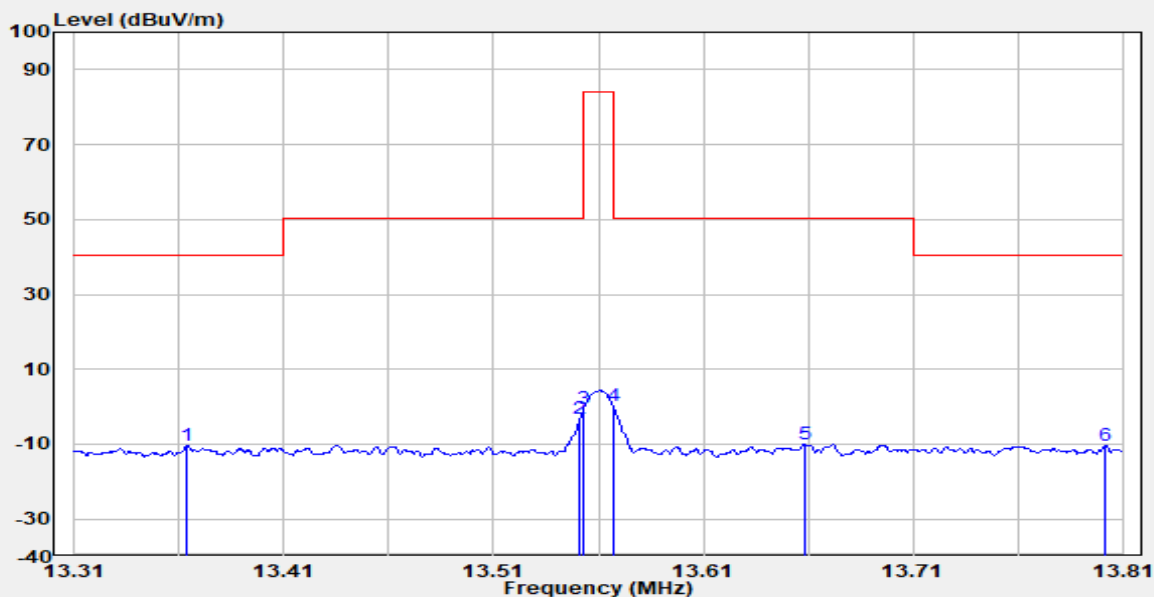
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Report Number :TERF2507002467E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Mask
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-08
Temp./Humi. :22.5°C/59%
Antenna Pol. :Parallel
Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13.364	Peak	14.41	-24.84	-10.43	40.50	-50.93
13.551	Peak	21.61	-24.90	-3.29	50.47	-53.76
13.553	Peak	24.38	-24.90	-0.52	50.47	-50.99
13.567	Peak	25.20	-24.90	0.30	50.47	-50.17
13.659	Peak	14.74	-24.93	-10.19	50.47	-60.66
13.802	Peak	14.56	-24.97	-10.41	40.50	-50.91

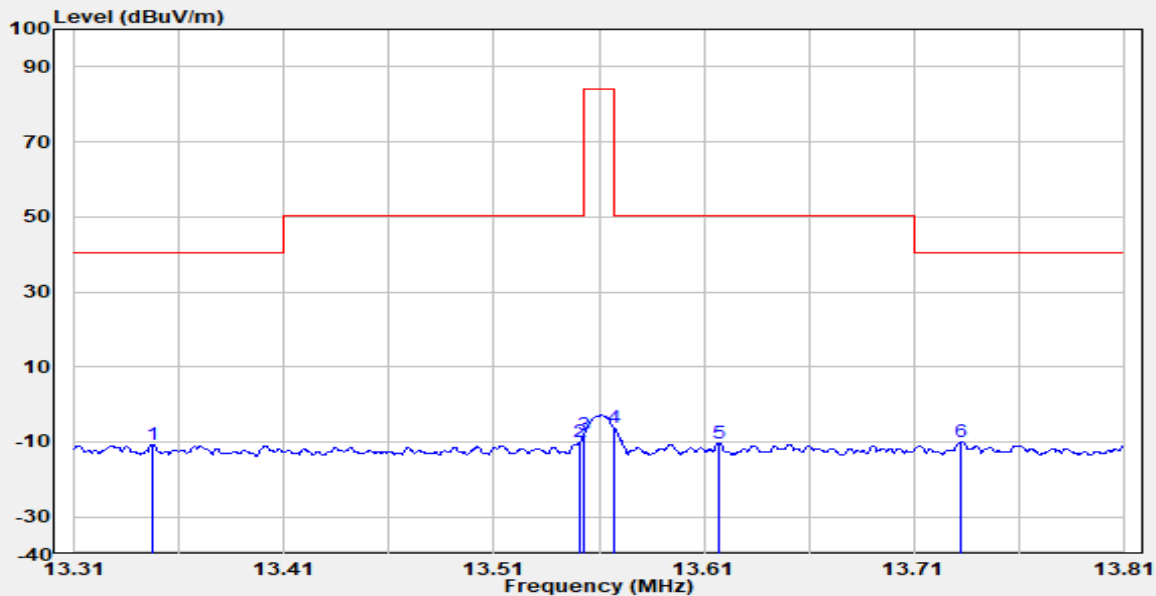
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Report Number :TERF2507002467E2
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 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Perpendicular
 Engineer :Jacky Chen



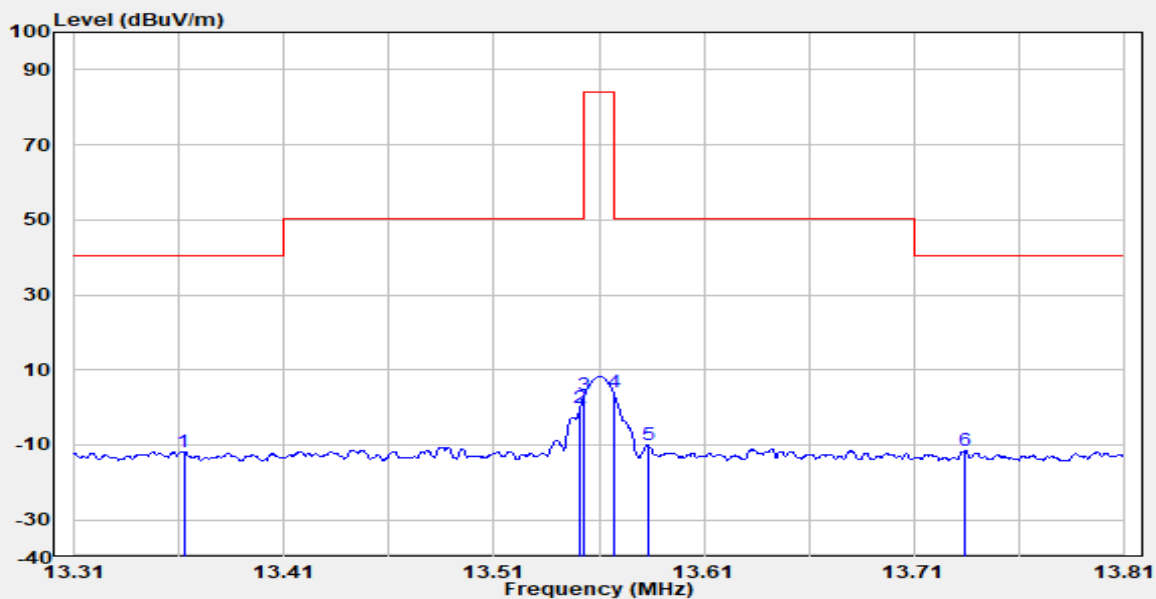
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.348	Peak	14.17	-24.84	-10.67	40.50	-51.17
13.551	Peak	14.99	-24.90	-9.91	50.47	-60.38
13.553	Peak	16.94	-24.90	-7.96	50.47	-58.43
13.567	Peak	18.66	-24.90	-6.24	50.47	-56.71
13.618	Peak	14.54	-24.92	-10.38	50.47	-60.85
13.733	Peak	14.83	-24.95	-10.12	40.50	-50.62

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Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Ground Parallel
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13.362	Peak	13.05	-24.84	-11.79	40.50	-52.29
13.551	Peak	24.74	-24.90	-0.16	50.47	-50.63
13.553	Peak	28.05	-24.90	3.15	50.47	-47.32
13.567	Peak	28.89	-24.90	3.99	50.47	-46.48
13.584	Peak	14.73	-24.91	-10.18	50.47	-60.65
13.735	Peak	13.32	-24.95	-11.63	40.50	-52.13

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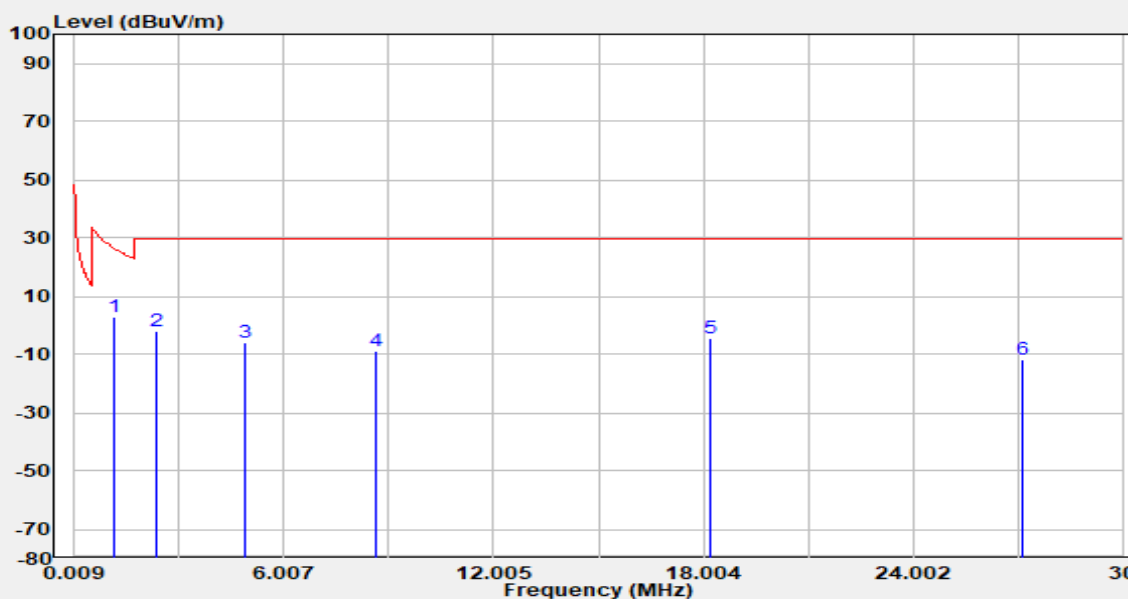
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7.1.2 Radiated Spurious Emission Measurement Result

Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Parallel
 Engineer :Jacky Chen



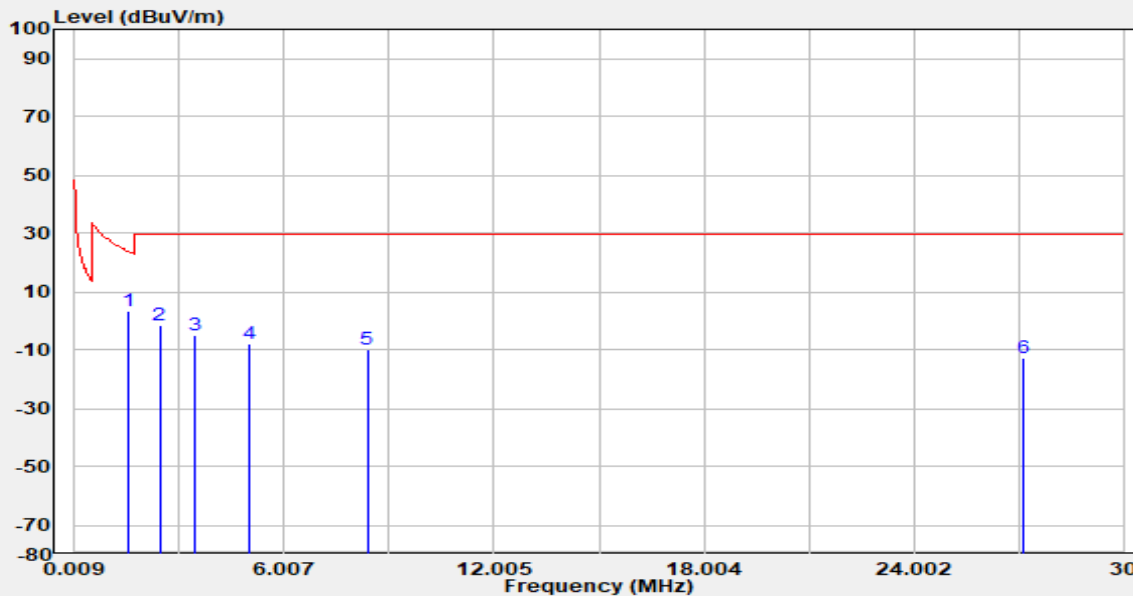
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1.119	Peak	29.21	-26.33	2.87	26.63	-23.76
2.378	Peak	24.03	-25.94	-1.92	29.54	-31.46
4.868	Peak	19.47	-25.33	-5.85	29.54	-35.39
8.646	Peak	16.37	-25.09	-8.72	29.54	-38.26
18.184	Peak	19.94	-24.28	-4.34	29.54	-33.88
27.120	Peak	14.06	-25.82	-11.75	29.54	-41.29

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Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Perpendicular
 Engineer :Jacky Chen



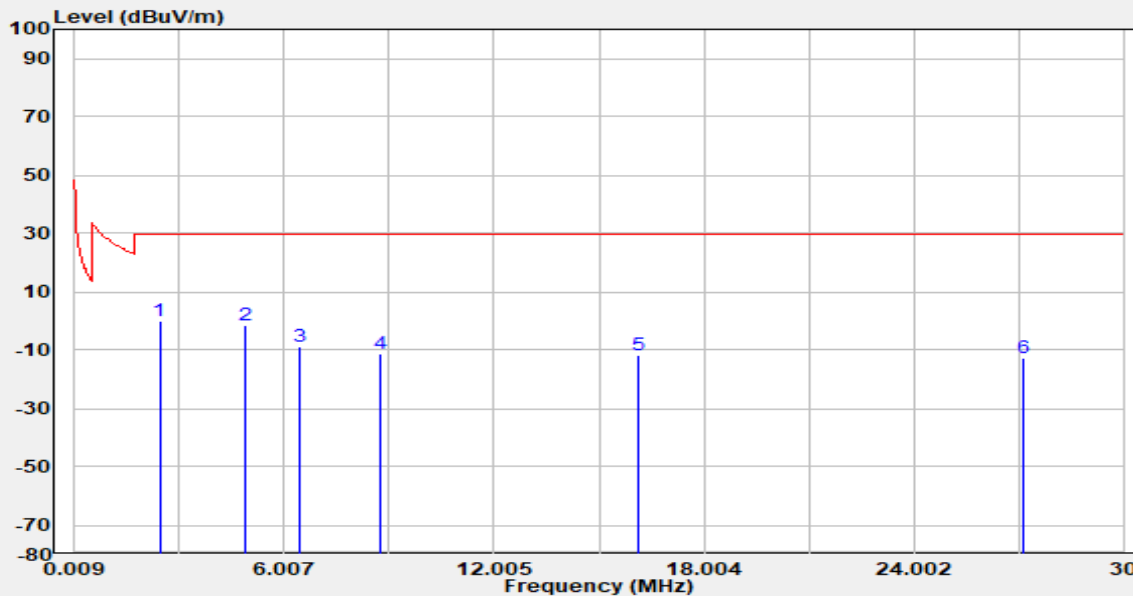
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1.539	Peak	29.73	-26.20	3.53	23.86	-20.34
2.438	Peak	24.26	-25.92	-1.66	29.54	-31.20
3.458	Peak	20.90	-25.56	-4.66	29.54	-34.20
4.988	Peak	17.44	-25.33	-7.89	29.54	-37.43
8.376	Peak	15.16	-25.09	-9.93	29.54	-39.47
27.120	Peak	13.07	-25.82	-12.74	29.54	-42.28

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Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Ground Parallel
 Engineer :Jacky Chen



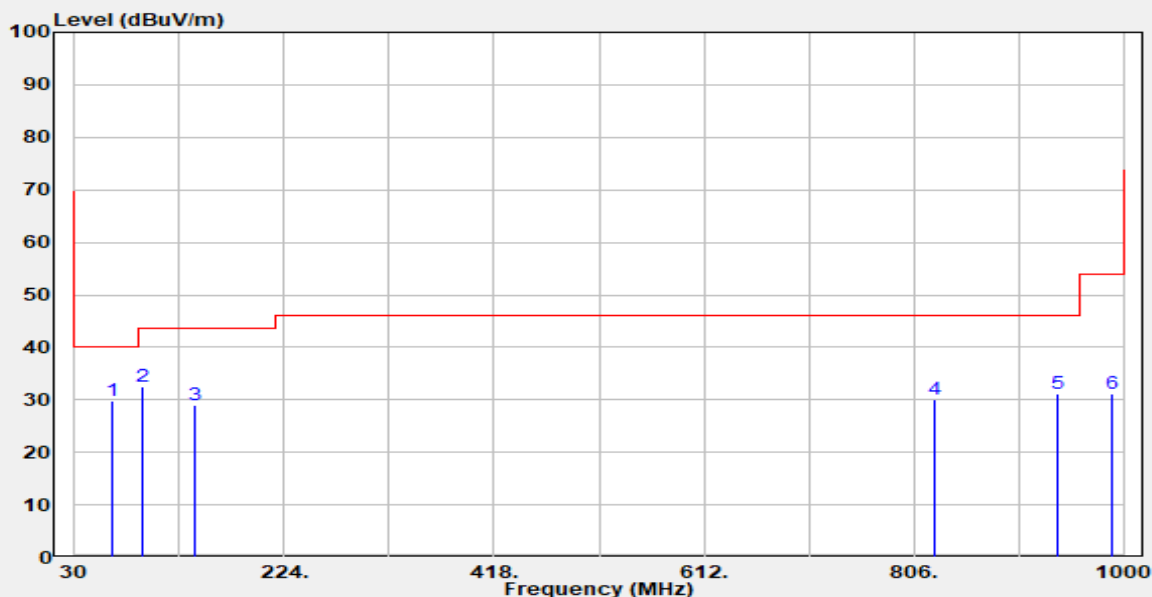
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2.438	Peak	25.75	-25.92	-0.17	29.54	-29.71
4.898	Peak	23.93	-25.33	-1.40	29.54	-30.94
6.427	Peak	15.87	-24.58	-8.71	29.54	-38.25
8.736	Peak	13.92	-25.09	-11.17	29.54	-40.71
16.144	Peak	12.83	-24.49	-11.66	29.54	-41.20
27.120	Peak	12.98	-25.82	-12.84	29.54	-42.38

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Report Number :TERF2507002467E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-08
Temp./Humi. :22.5°C/59%
Antenna Pol. :Vertical
Engineer :Jacky Chen



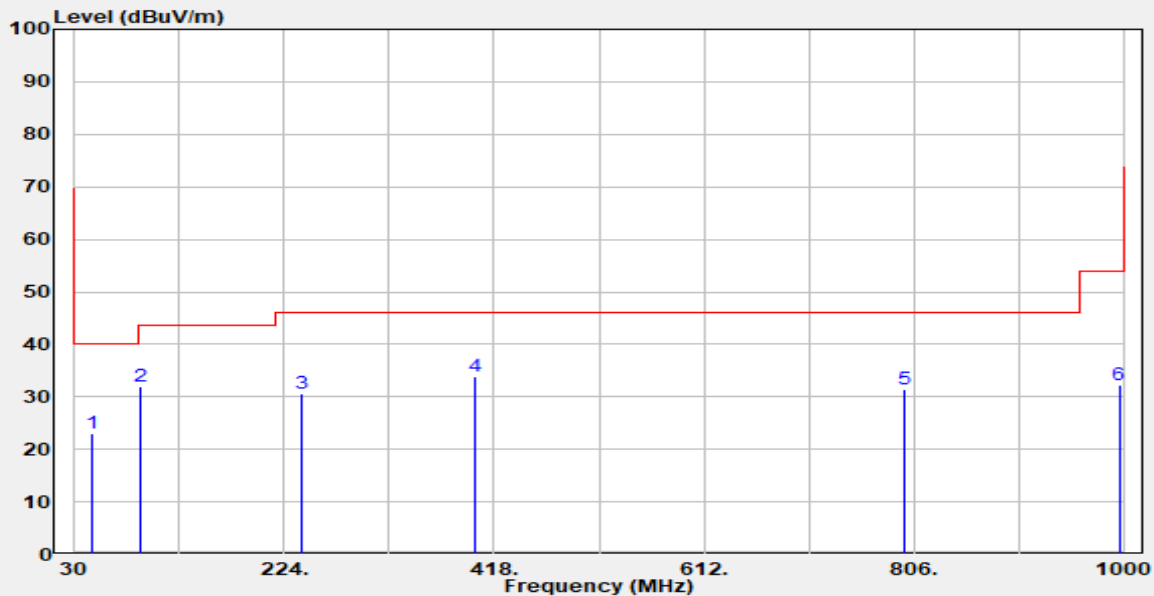
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
63.950	Peak	42.66	-12.76	29.90	40.00	-10.10
92.080	Peak	50.37	-17.73	32.64	43.50	-10.86
140.580	Peak	41.09	-12.17	28.92	43.50	-14.58
825.400	Peak	30.04	0.16	30.20	46.00	-15.80
938.890	Peak	29.80	1.46	31.25	46.00	-14.75
990.300	Peak	29.56	1.69	31.26	54.00	-22.74

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Report Number :TERF2507002467E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-08
 Temp./Humi. :22.5°C/59%
 Antenna Pol. :Horizontal
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.520	Peak	34.60	-11.70	22.91	40.00	-17.09
91.110	Peak	49.77	-17.84	31.93	43.50	-11.57
239.520	Peak	43.75	-13.16	30.59	46.00	-15.41
399.570	Peak	41.88	-8.04	33.84	46.00	-12.16
797.270	Peak	31.36	-0.06	31.31	46.00	-14.69
996.120	Peak	30.47	1.77	32.24	54.00	-21.76

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7.2 Frequency Stability

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55902	-0.98000	+/- 1.356
3.8	-10	13.55922	-0.78000	+/- 1.356
3.8	0	13.55988	-0.12000	+/- 1.356
3.8	10	13.55963	-0.37000	+/- 1.356
3.8	20	13.55987	-0.13000	+/- 1.356
3.8	30	13.55914	-0.86000	+/- 1.356
3.8	40	13.55932	-0.68000	+/- 1.356
3.8	50	13.55959	-0.41000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
4.37	20	13.55923	-0.77000	+/- 1.356
3.8	20	13.55987	-0.13000	+/- 1.356
3.23	20	13.55969	-0.31000	+/- 1.356

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2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55968	-0.32000	+/- 1.356
3.8	-10	13.55997	-0.03000	+/- 1.356
3.8	0	13.55924	-0.76000	+/- 1.356
3.8	10	13.55902	-0.98000	+/- 1.356
3.8	20	13.55916	-0.84000	+/- 1.356
3.8	30	13.55962	-0.38000	+/- 1.356
3.8	40	13.55925	-0.75000	+/- 1.356
3.8	50	13.55958	-0.42000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
4.37	20	13.55969	-0.31000	+/- 1.356
3.8	20	13.55916	-0.84000	+/- 1.356
3.23	20	13.55949	-0.51000	+/- 1.356

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Member of SGS Group

5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55983	-0.17000	+/- 1.356
3.8	-10	13.55904	-0.96000	+/- 1.356
3.8	0	13.55952	-0.48000	+/- 1.356
3.8	10	13.55908	-0.92000	+/- 1.356
3.8	20	13.55971	-0.29000	+/- 1.356
3.8	30	13.55915	-0.85000	+/- 1.356
3.8	40	13.55986	-0.14000	+/- 1.356
3.8	50	13.55983	-0.17000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
4.37	20	13.55997	-0.03000	+/- 1.356
3.8	20	13.55971	-0.29000	+/- 1.356
3.23	20	13.55866	-1.34000	+/- 1.356

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10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55922	-0.78000	+/- 1.356
3.8	-10	13.55941	-0.59000	+/- 1.356
3.8	0	13.55995	-0.05000	+/- 1.356
3.8	10	13.55978	-0.22000	+/- 1.356
3.8	20	13.55933	-0.67000	+/- 1.356
3.8	30	13.55979	-0.21000	+/- 1.356
3.8	40	13.55911	-0.89000	+/- 1.356
3.8	50	13.55957	-0.43000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
4.37	20	13.55979	-0.21000	+/- 1.356
3.8	20	13.55933	-0.67000	+/- 1.356
3.23	20	13.55916	-0.84000	+/- 1.356

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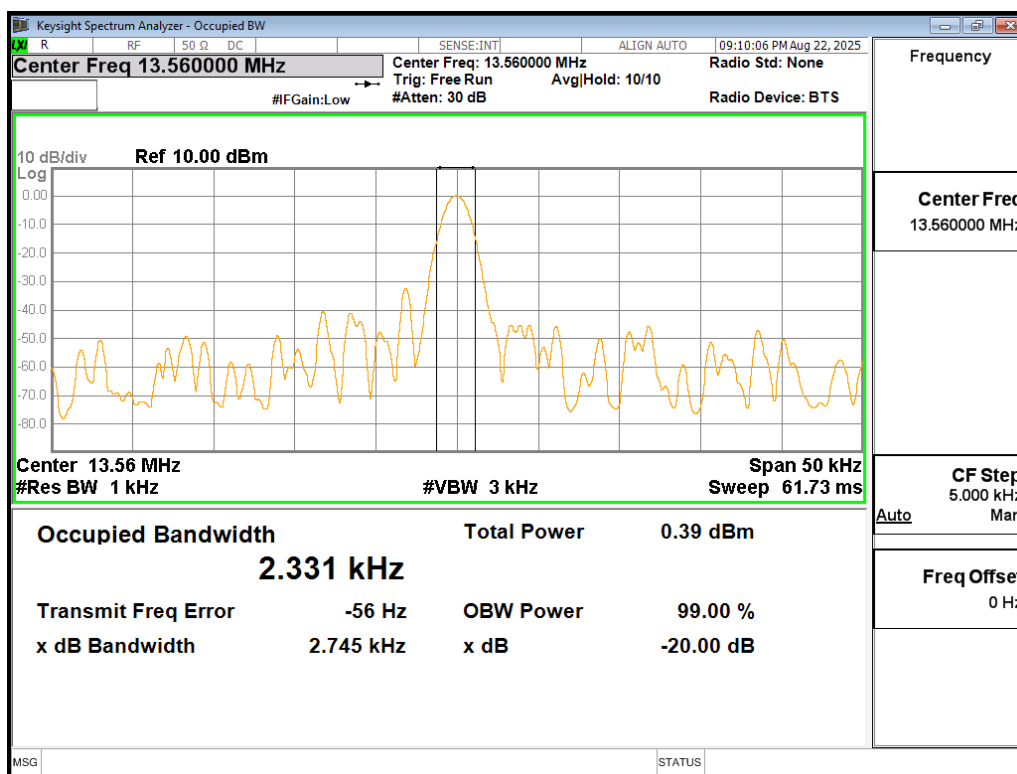
7.3 Emission Bandwidth

20dB BW (kHz)
2.745

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.55870	>13.11
High	13.56110	<14.01

99% BW (kHz)
2.331

Bandwidth



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台灣檢驗科技股份有限公司

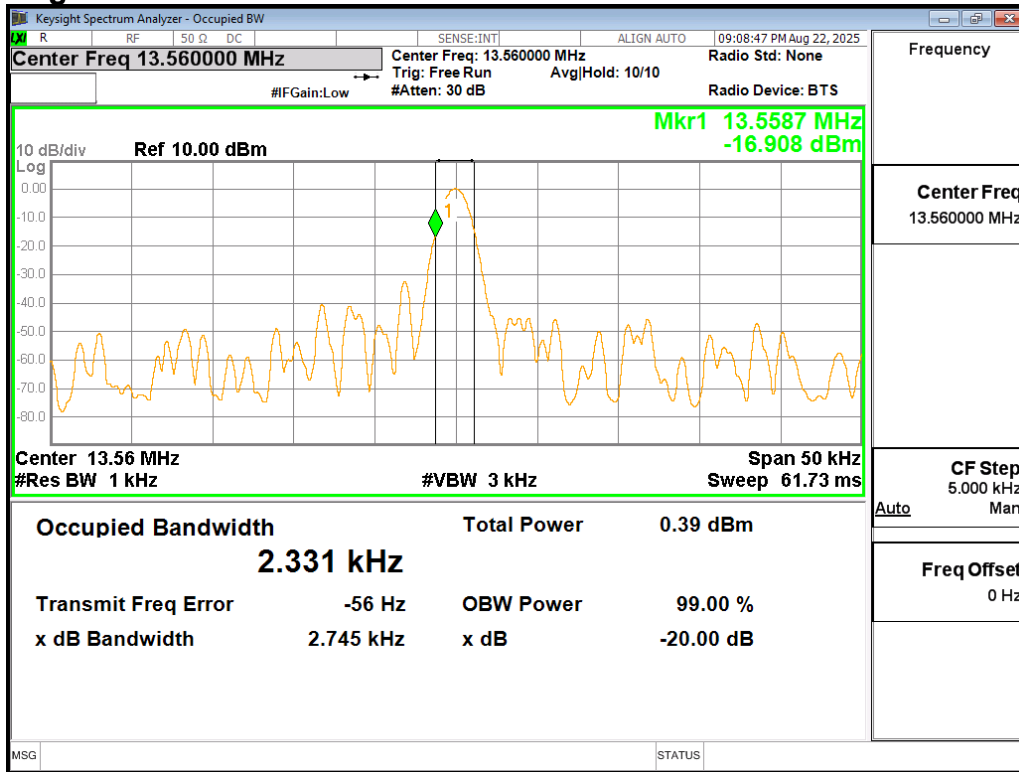
t (886-2) 2299-3279

f (886-2) 2298-0488

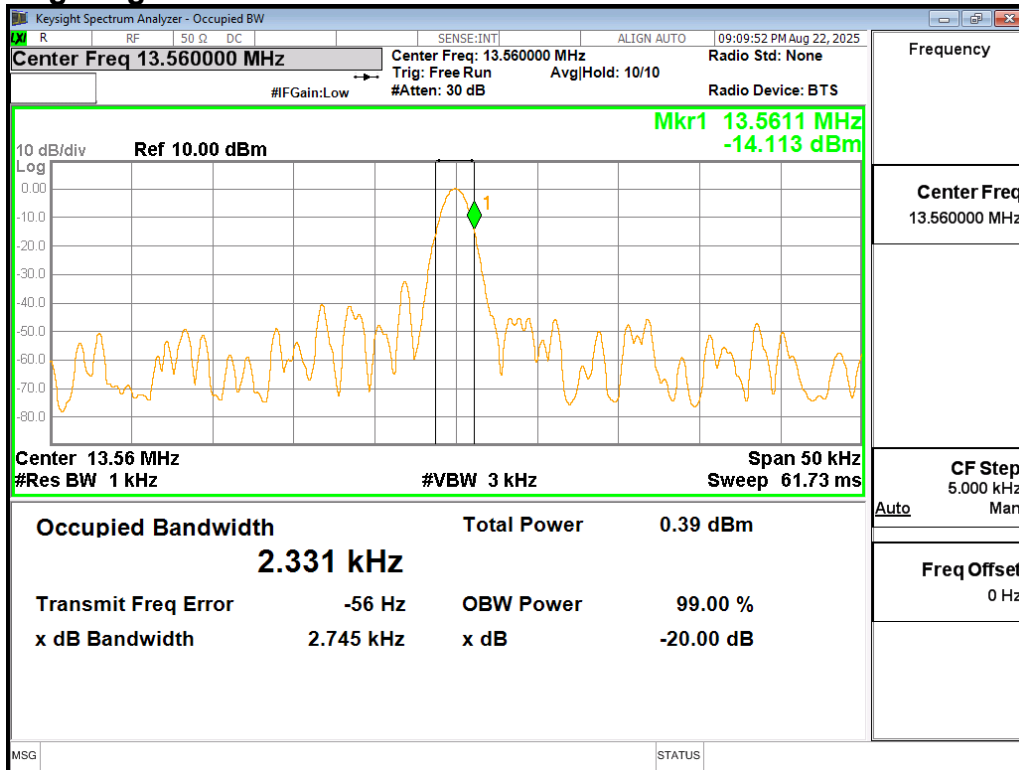
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Operation range low



Operation range High



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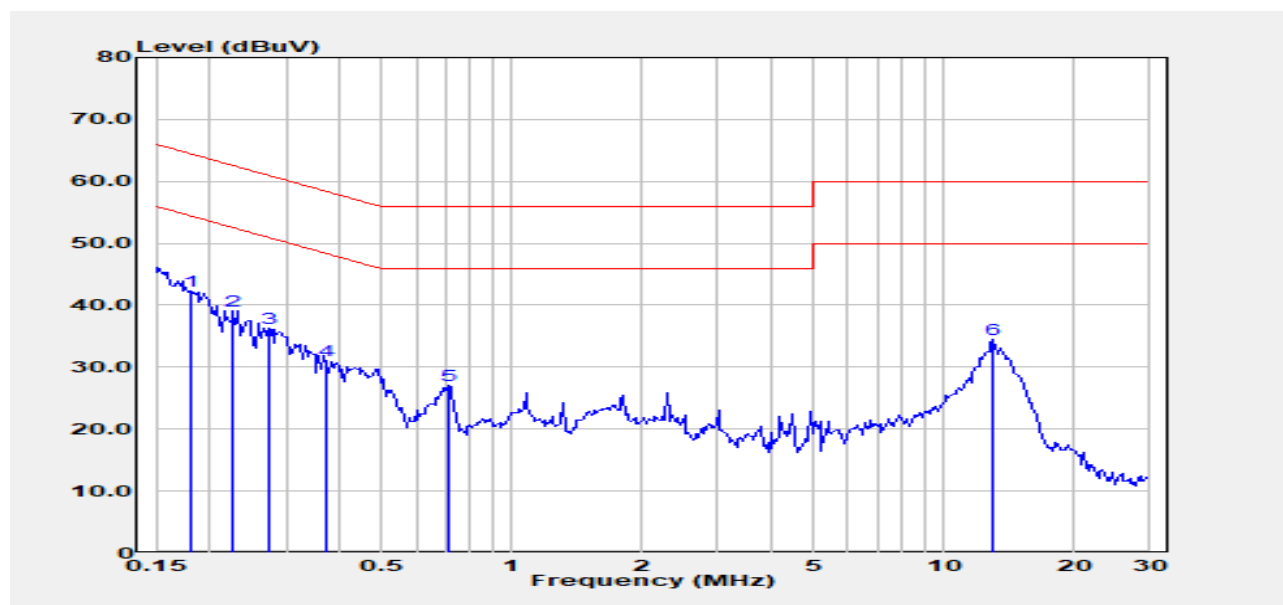
7.4 AC Power Line Condcuted

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note: The * reveals the worst-case results that closest to the limit.

Report Number	:TERF2507002467E2	Test Site	:Conduction C
Test Mode	:NFC	Test Date	:2025-09-09
Power	:120V/60Hz	Temp./Humi.	:26.1°C/55%
Probe	:L1	Engineer	:Jacky Chen
Note	: Standby Mode		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.182	Peak	531.64	-489.40	42.24	64.42	-22.18
0.227	Peak	528.44	-489.41	39.03	62.57	-23.54
0.274	Peak	525.67	-489.42	36.25	60.98	-24.73
0.373	Peak	520.55	-489.43	31.12	58.43	-27.31
0.712	Peak	516.50	-489.42	27.08	56.00	-28.92
12.988	Peak	523.66	-489.24	34.42	60.00	-25.58

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Report Number :TERF2507002467E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2025-09-09

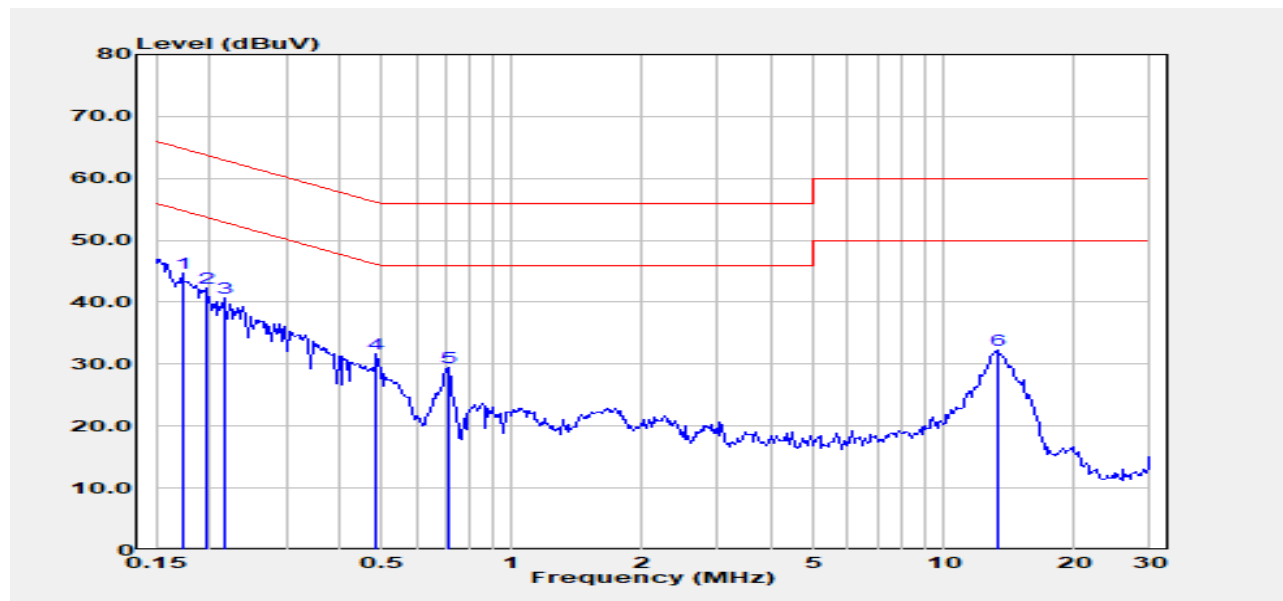
Power :120V/60Hz

Temp./Humi. :26.1°C/55%

Probe :N

Engineer :Jacky Chen

Note : Standby Mode



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.172	Peak	34.10	10.66	44.76	64.86	-20.10
0.195	Peak	31.56	10.65	42.21	63.80	-21.59
0.215	Peak	30.05	10.65	40.70	63.01	-22.31
0.486	Peak	21.10	10.60	31.71	56.23	-24.52
0.712	Peak	18.84	10.64	29.47	56.00	-26.53
13.267	Peak	21.30	11.04	32.34	60.00	-27.66

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Report Number :TERF2507002467E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2025-09-09

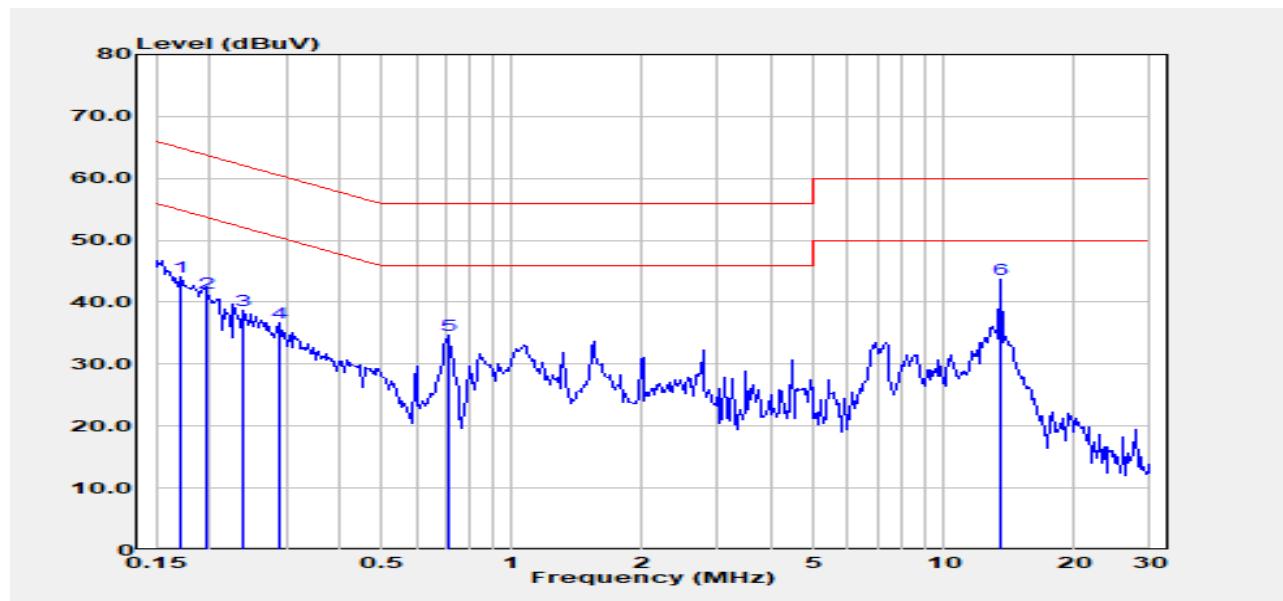
Power :120V/60Hz

Temp./Humi. :26.1°C/55%

Probe :L1

Engineer :Jacky Chen

Note :NFC On



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.170	Peak	33.50	10.65	44.15	64.94	-20.80
0.198	Peak	30.85	10.65	41.50	63.71	-22.21
0.239	Peak	27.99	10.64	38.64	62.13	-23.49
0.289	Peak	25.98	10.64	36.61	60.54	-23.93
0.712	Peak	23.98	10.65	34.63	56.00	-21.37
13.560	Peak	32.61	11.05	43.66	60.00	-16.34

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Test Site :Conduction C

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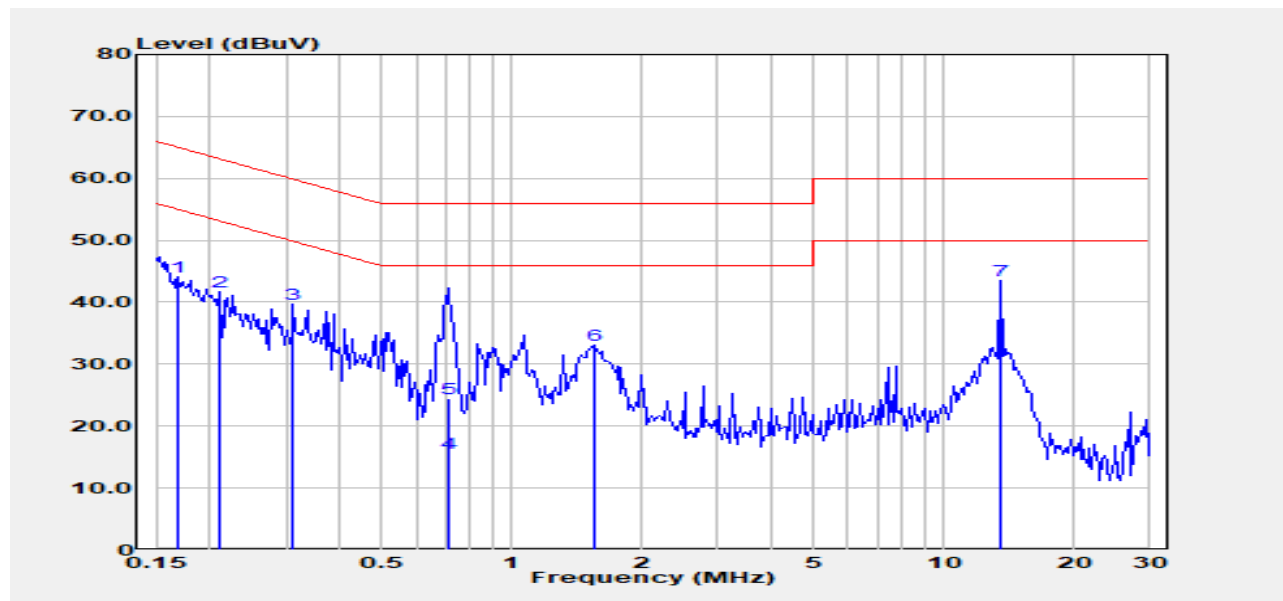
Power :120V/60Hz

Temp./Humi. :26.1°C/55%

Probe :N

Engineer :Jacky Chen

Note :NFC On



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.169	Peak	33.40	10.66	44.05	65.03	-20.98
0.211	Peak	31.03	10.65	41.68	63.18	-21.51
0.312	Peak	29.09	10.63	39.72	59.93	-20.21
0.712	Average	5.10	10.64	15.74	46.00	-30.26
0.712	QP	13.90	10.64	24.54	56.00	-31.46
1.544	Peak	22.43	10.72	33.15	56.00	-22.85
13.560	Peak	32.37	11.04	43.42	60.00	-16.58

~ End of Report ~

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