

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Ledger Nano Gen5
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.: 1403
Report Number: TERF2509002785E2
FCC ID 2ASAL-1403
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2509002787E2, 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 TERF2509002787E2, for more details please refer to section 2 in this report.
Issue Date: October 16, 2025

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 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
TERF2509002785E2	00	Original	Oct. 13, 2025	Candice Li	
TERF2509002785E2	01	Modify the data of Emission Bandwidth on page 8, 11, 33-34.	Oct. 16, 2025	Candice Li	*

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).

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Ledger Nano Gen5
Brand Name	[L] or [LEDGER]
Model No.	1403
Hardware Version	EVT2
Firmware Version	MCU 8.0.3 + SE 0.0.1
EUT Series No.	0UAK55U00J
Power Supply	3.85 Vdc
Test Software (Name/Version)	termite-3.4

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 25.09 dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	PCB antenna

Note:

- 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.
- 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	Note
§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 TERF2509002787E2.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

RSS-210, Issue 11 June 2024

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	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C / Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702

Test Condition	Test Site name	Test Engineer	Test Environment (T&H)	Test Date
Conducted	Conducted D	Charlie	23.6°C / 66%	2025/09/11 ~ 2025/10/15

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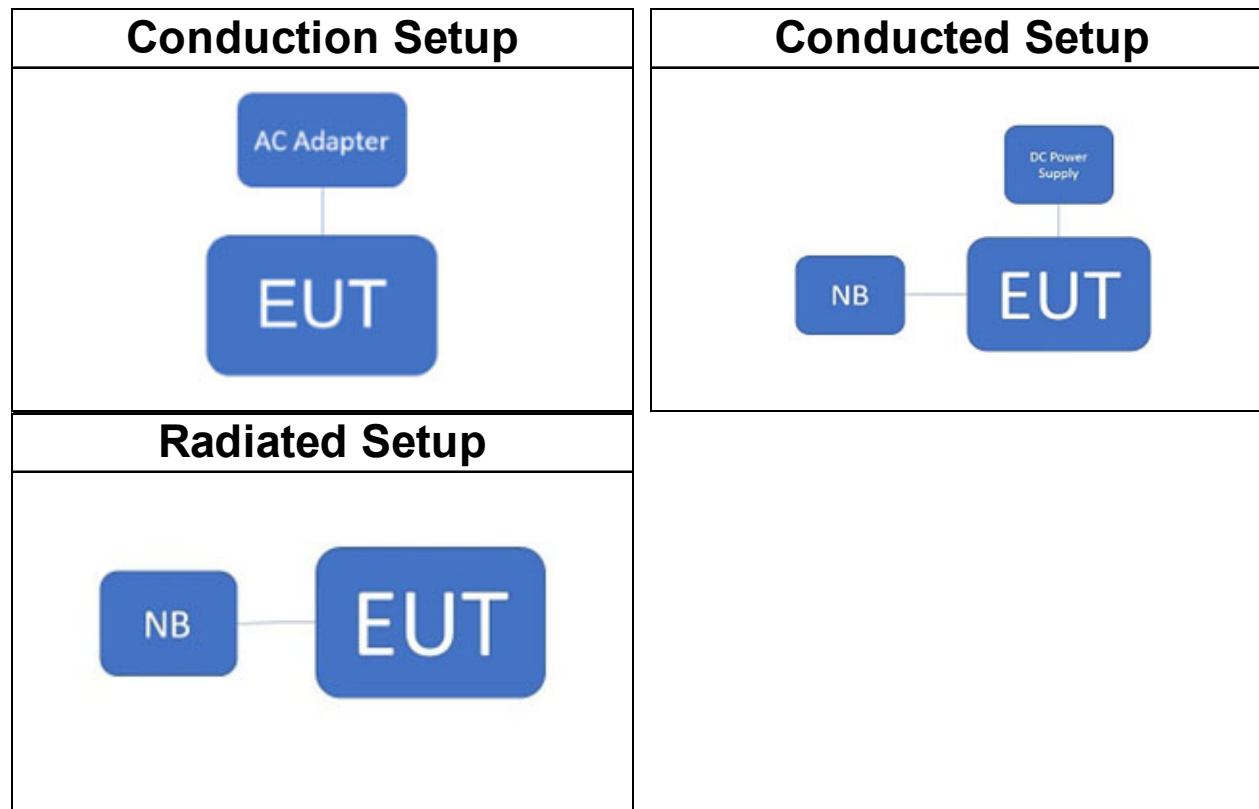
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 Diagram



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3.2 List

3.2.1 Conduction Setup

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	Shenzhen RongTaiFeng Technology Co.,Ltd.	20603011	N/A	N/A	N/A

3.2.1 Conducted Setup

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0003332	N/A	N/A
USB Cable	Shenzhen RongTaiFeng Technology Co.,Ltd.	20603011	N/A	N/A	N/A

3.2.2 Radiated Setup

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	Shenzhen RongTaiFeng Technology Co.,Ltd.	20603011	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	Marvelous	MVE6114	RF39	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53130054	10/01/2024	09/30/2025
DC Power Supply	Agilent	E3640A	MY53130054	10/14/2025	10/13/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	09/18/2024	09/17/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
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+2310002+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 (μV/m)at 30m	Field Strength (dBμV/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 = $40 \cdot \log(30/3) = 40$ dB

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

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

Note:

1. Distance extrapolation factor = $40 \log(\text{required distance}/\text{test distance})$ (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 (μV/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 dBμV/m=20 log (μV/m)
2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
3. $20 \cdot \log(30 \mu\text{V/m}) = 29.54 \text{ dB}\mu\text{V/m}$
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.

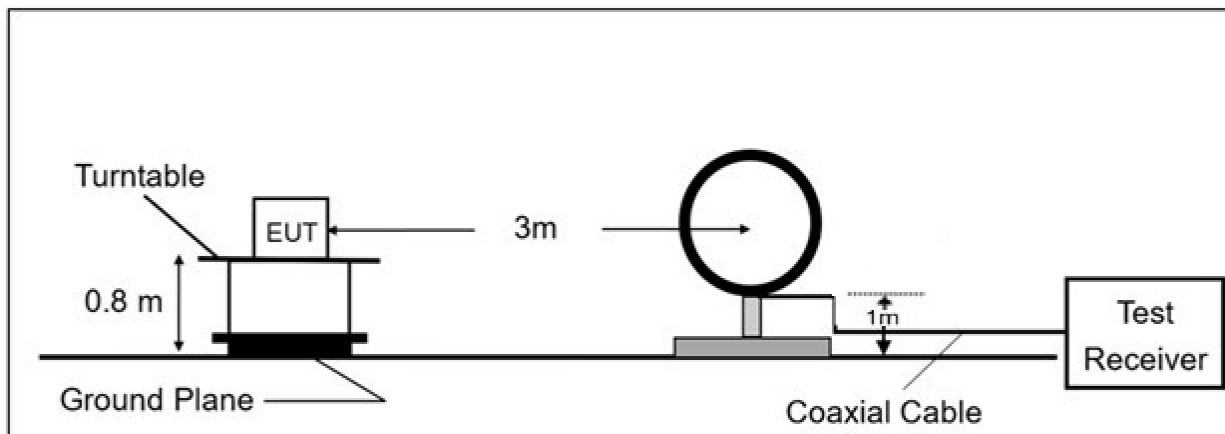
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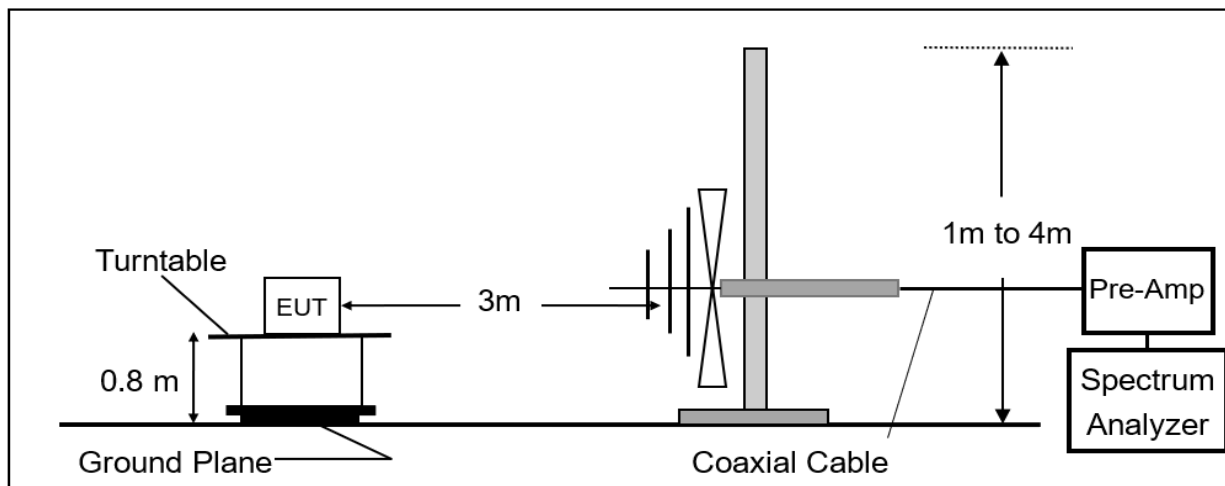
6 TEST CONFIGURATION

6.1 Radiated Emission

(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.
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.

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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

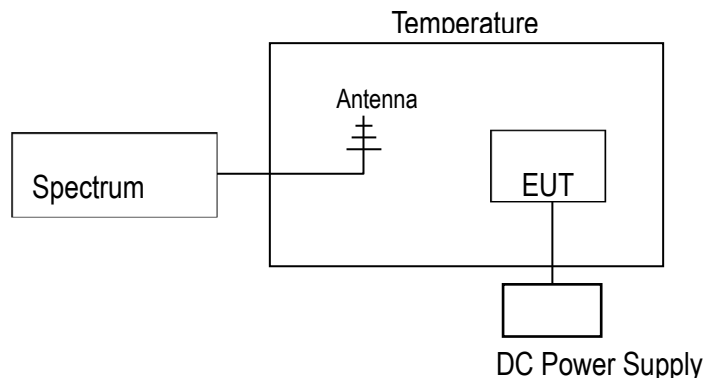
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

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 $20 \cdot \log(uV/m)$

6.2 Frequency Stability

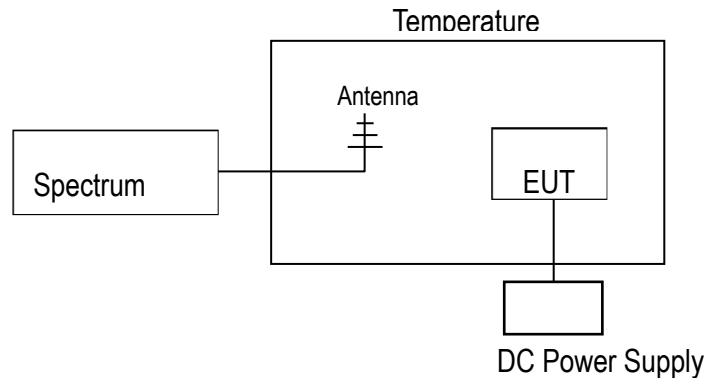


1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW= 10kHz,
VBW= 10kHz,
Span =100kHz.
4. Set SPA Max hold. Mark peak.

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6.3 Emission Bandwidth

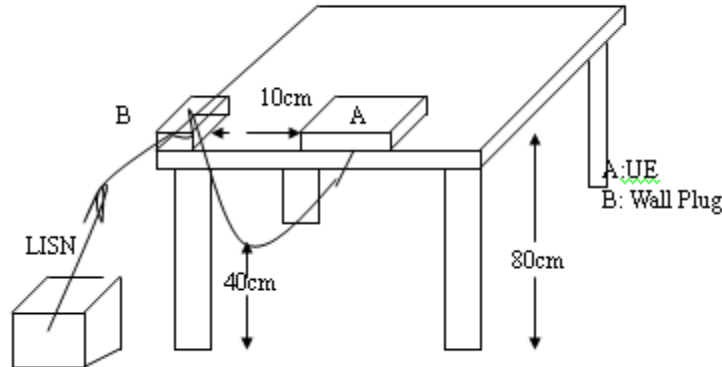


1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW=1% to 5% OBW and without going below 0.1kHz,
VBW $\geq$ 3 x RBW,
Span = 2 to 5 times OBW
4. Use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

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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 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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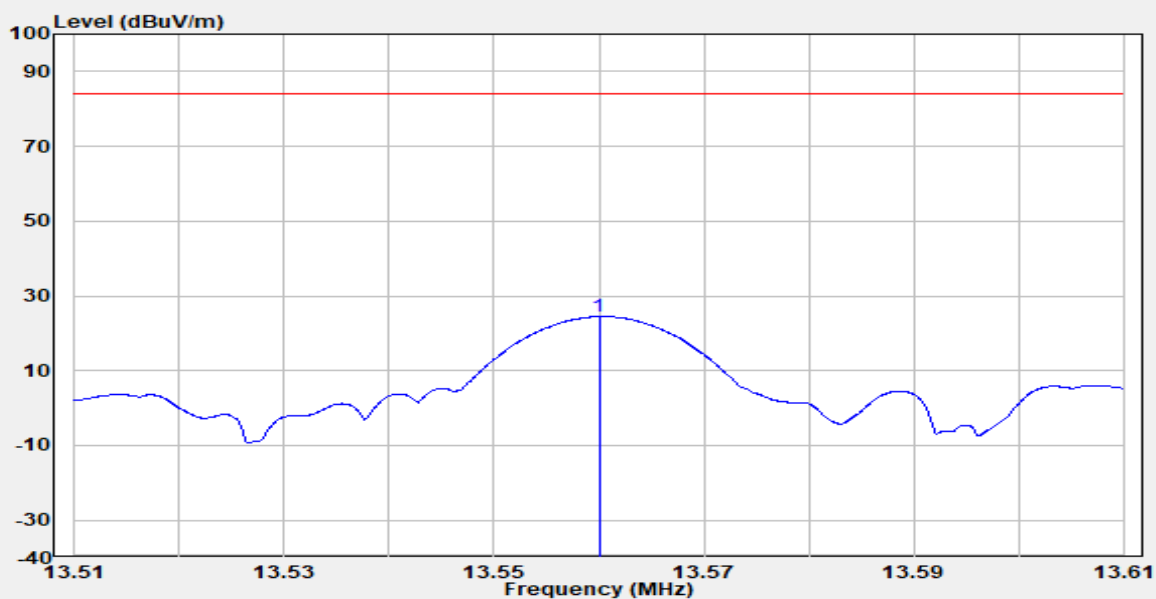
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7.1.1 Field Strength of Fundamental Emission Measurement Result

Report Number	:TERF2509002787E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2025-09-12
Test Frequency	:13.56 MHz	Temp./Humi.	:22.5°C/58%
Test Mode	:Main	Antenna Pol.	: Parallel
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
13.56	Peak	49.37	-24.90	24.47	84.00	-59.53

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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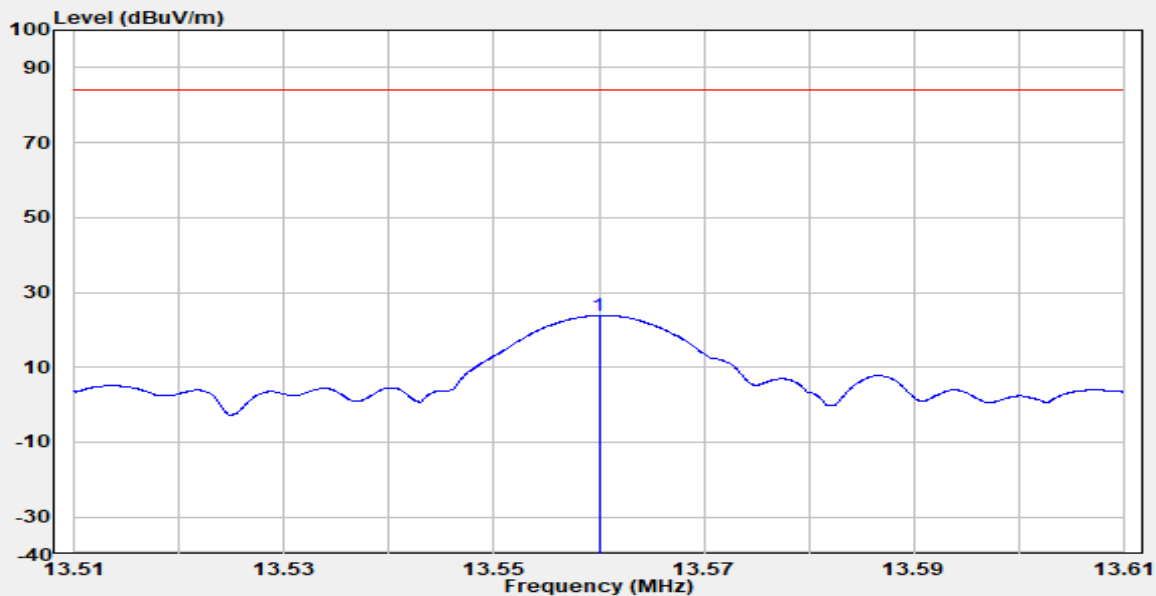
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Report Number :TERF2509002787E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-12
Temp./Humi. :22.5°C/58%
Antenna Pol. : Perpendicular
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.56	Peak	48.72	-24.90	23.82	84.00	-60.18

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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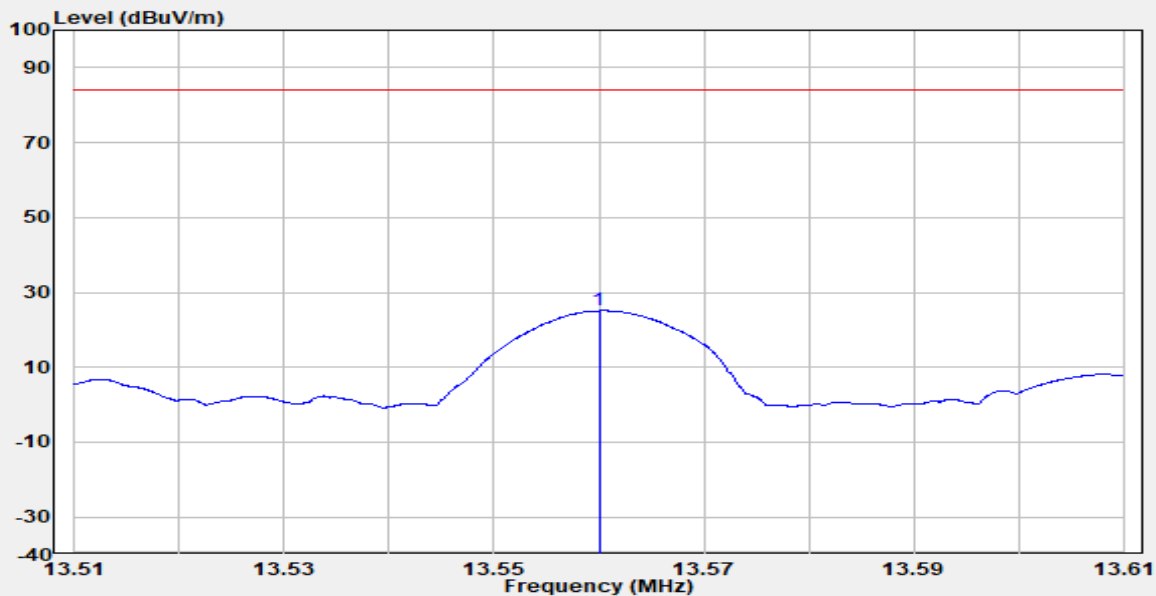
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Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-12
Temp./Humi. :22.5°C/58%
Antenna Pol. : Ground Parallel
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.56	Peak	49.99	-24.90	25.09	84.00	-58.91

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

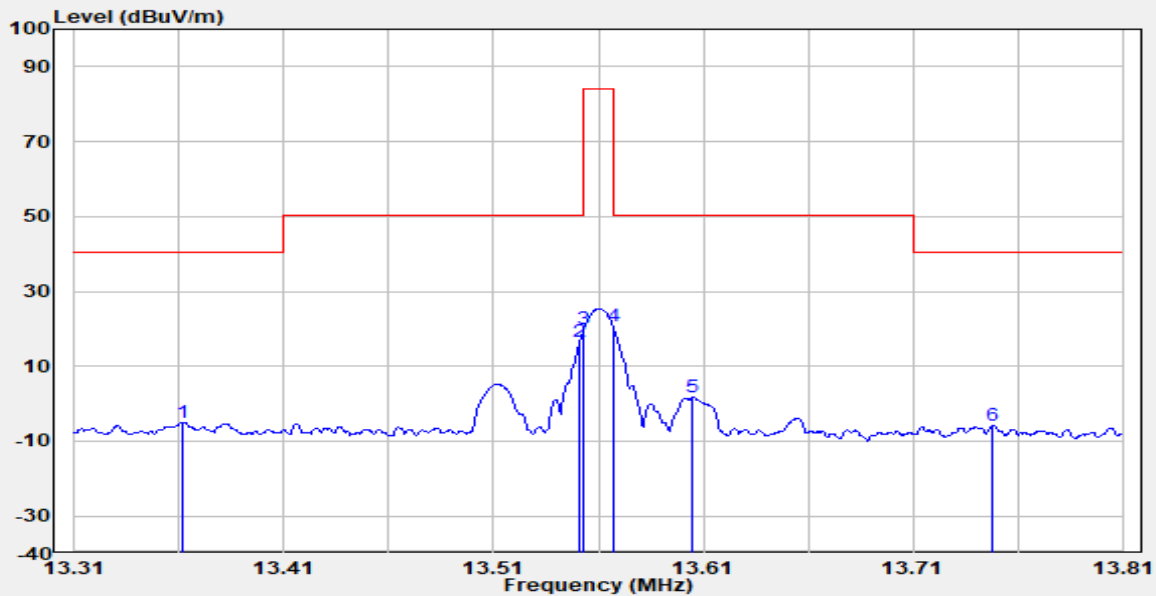
Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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Report Number :TERF2509002787E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Mask
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-12
Temp./Humi. :22.5°C/58%
Antenna Pol. : Parallel
Engineer :Temo Chen



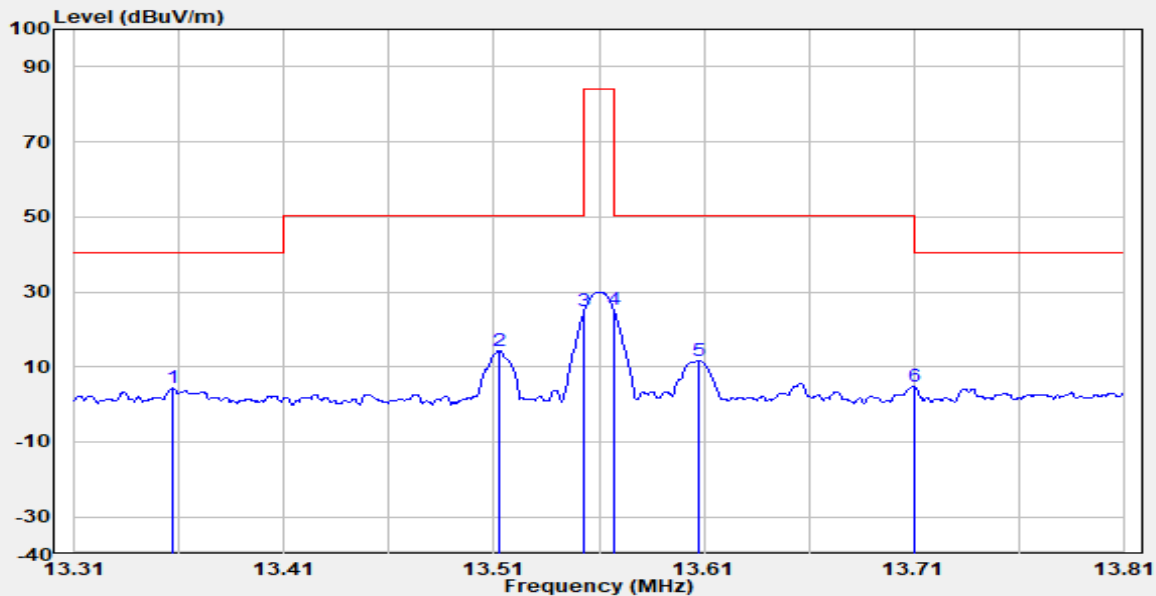
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13.362	Peak	19.86	-24.84	-4.98	40.50	-45.48
13.551	Peak	41.24	-24.90	16.34	50.47	-34.13
13.553	Peak	44.73	-24.90	19.83	50.47	-30.64
13.567	Peak	45.74	-24.90	20.83	50.47	-29.64
13.605	Peak	26.62	-24.91	1.71	50.47	-48.76
13.748	Peak	19.07	-24.95	-5.89	40.50	-46.39

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Report Number :TERF2509002787E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-12
 Temp./Humi. :22.5°C/58%
 Antenna Pol. : Perpendicular
 Engineer :Temo Chen



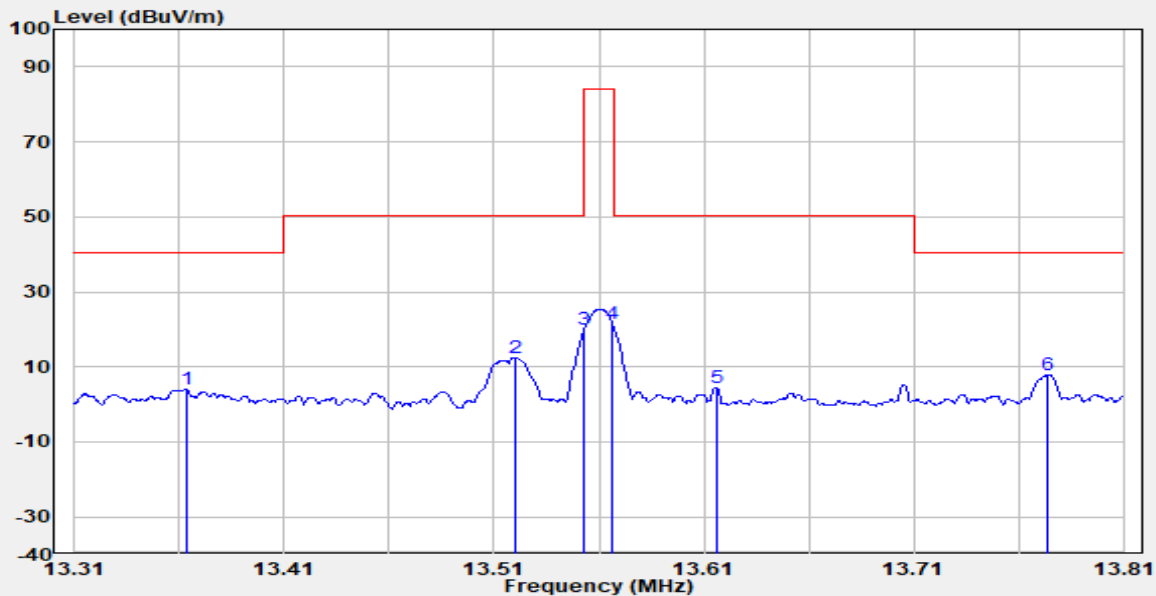
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13.357	Peak	29.09	-24.84	4.25	40.50	-36.25
13.513	Peak	39.10	-24.89	14.21	50.47	-36.26
13.553	Peak	49.68	-24.90	24.78	50.47	-25.69
13.567	Peak	50.32	-24.90	25.42	50.47	-25.05
13.608	Peak	36.45	-24.91	11.53	50.47	-38.94
13.710	Peak	29.75	-24.94	4.81	40.50	-35.69

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Report Number :TERF2509002787E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-12
 Temp./Humi. :22.5°C/58%
 Antenna Pol. : Ground Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13.363	Peak	28.95	-24.84	4.11	40.50	-36.39
13.520	Peak	37.34	-24.89	12.45	50.47	-38.02
13.553	Peak	44.78	-24.90	19.89	50.47	-30.58
13.567	Peak	46.38	-24.90	21.48	50.47	-28.99
13.616	Peak	29.48	-24.92	4.57	50.47	-45.90
13.774	Peak	32.72	-24.96	7.76	40.50	-32.74

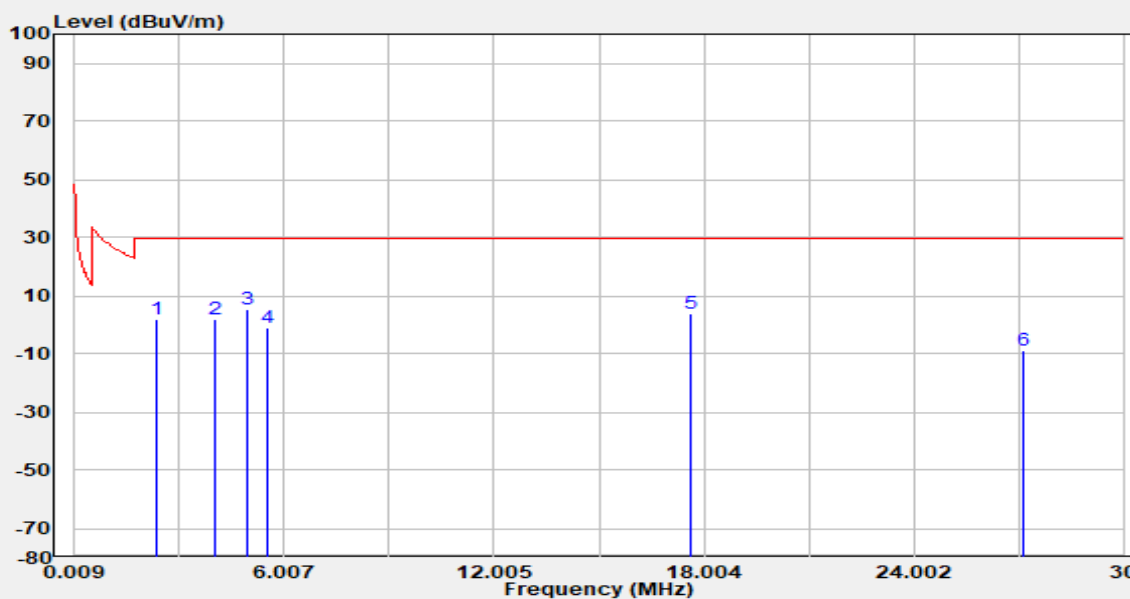
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7.1.2 Radiated Spurious Emission Measurement Result

Report Number :TERF2509002787E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-12
 Temp./Humi. :22.5°C/58%
 Antenna Pol. : Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2.378	Peak	28.13	-25.95	2.18	29.54	-27.36
4.028	Peak	27.49	-25.34	2.15	29.54	-27.39
4.958	Peak	30.50	-25.33	5.17	29.54	-24.37
5.527	Peak	24.00	-24.85	-0.85	29.54	-30.39
17.644	Peak	28.18	-24.33	3.85	29.54	-25.69
27.12	Peak	16.86	-25.82	-8.96	29.54	-38.50

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

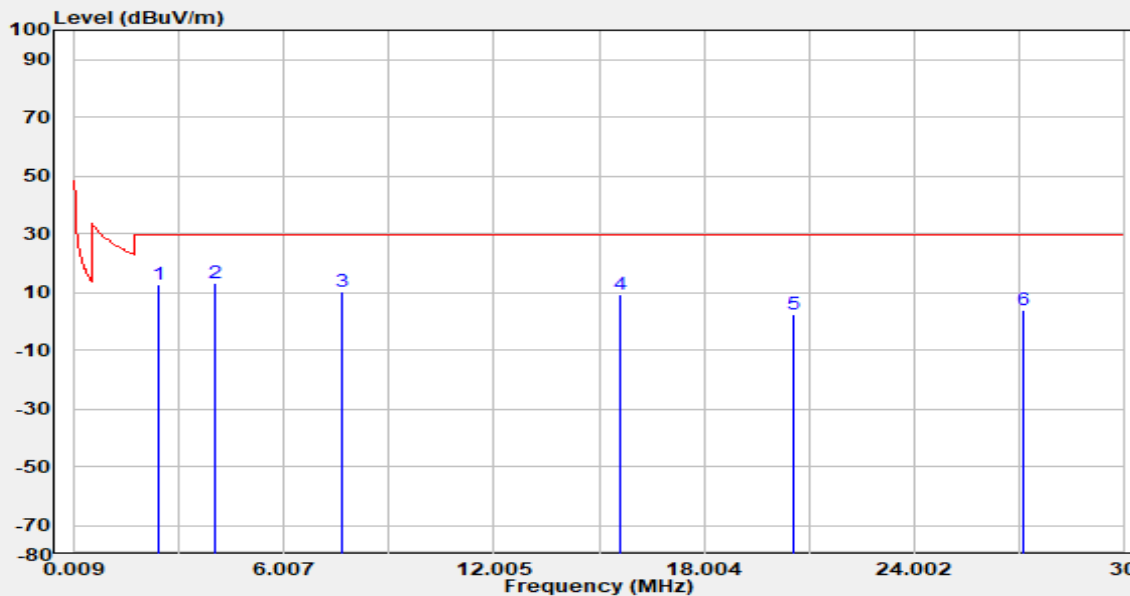
Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number :TERF2509002787E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-12
 Temp./Humi. :22.5°C/58%
 Antenna Pol. : Perpendicular
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2.408	Peak	38.78	-25.94	12.84	29.54	-16.70
3.998	Peak	38.29	-25.34	12.95	29.54	-16.59
7.657	Peak	35.04	-25.00	10.04	29.54	-19.50
15.604	Peak	34.07	-24.71	9.36	29.54	-20.18
20.583	Peak	27.49	-24.90	2.59	29.54	-26.95
27.12	Peak	29.50	-25.82	3.68	29.54	-25.86

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

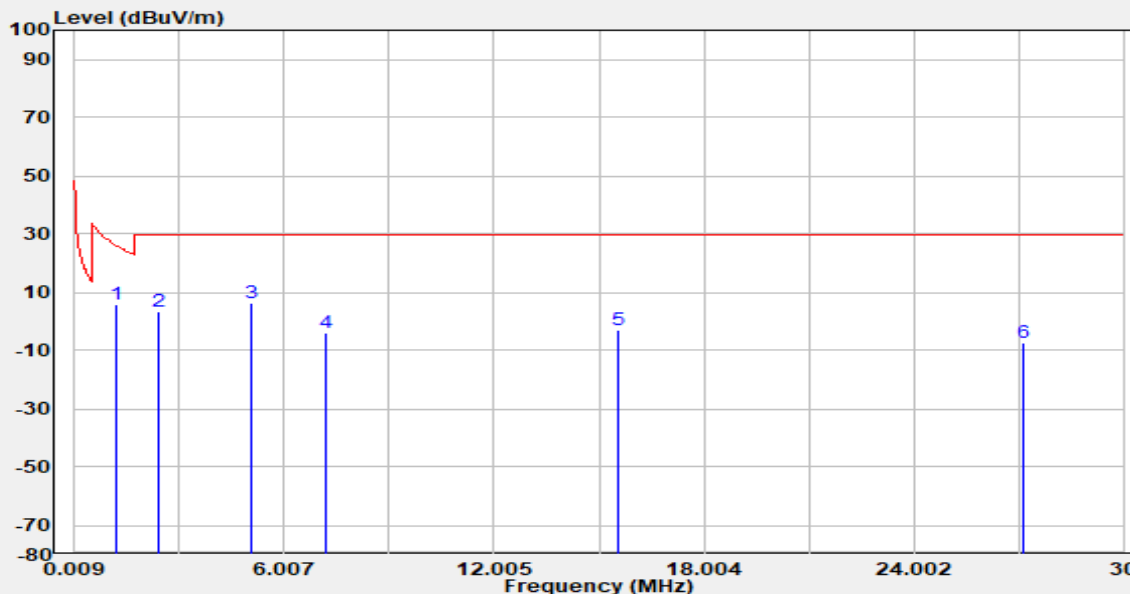
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2509002787E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-12
Temp./Humi. :22.5°C/58%
Antenna Pol. : Ground Parallel
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
1.209	Peak	32.19	-26.31	5.88	25.96	-20.08
2.408	Peak	29.55	-25.94	3.61	29.54	-25.93
5.047	Peak	31.55	-25.29	6.26	29.54	-23.28
7.207	Peak	20.86	-24.86	-4.00	29.54	-33.54
15.544	Peak	21.83	-24.74	-2.91	29.54	-32.45
27.12	Peak	18.45	-25.82	-7.37	29.54	-36.91

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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t (886-2) 2299-3279

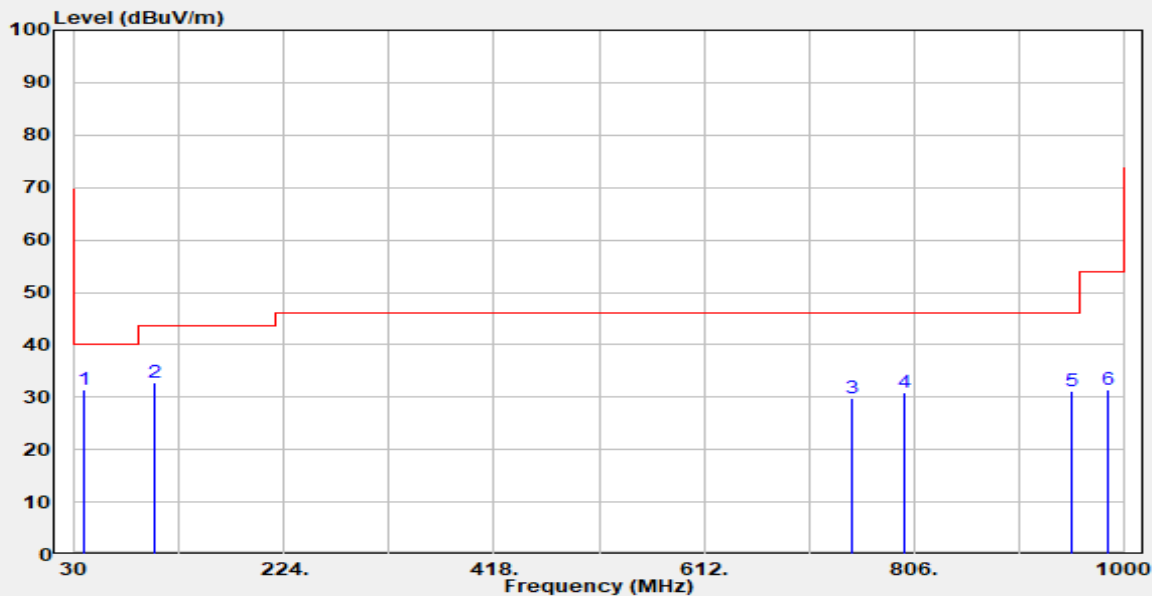
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2509002787E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-09-11
 Temp./Humi. :22.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



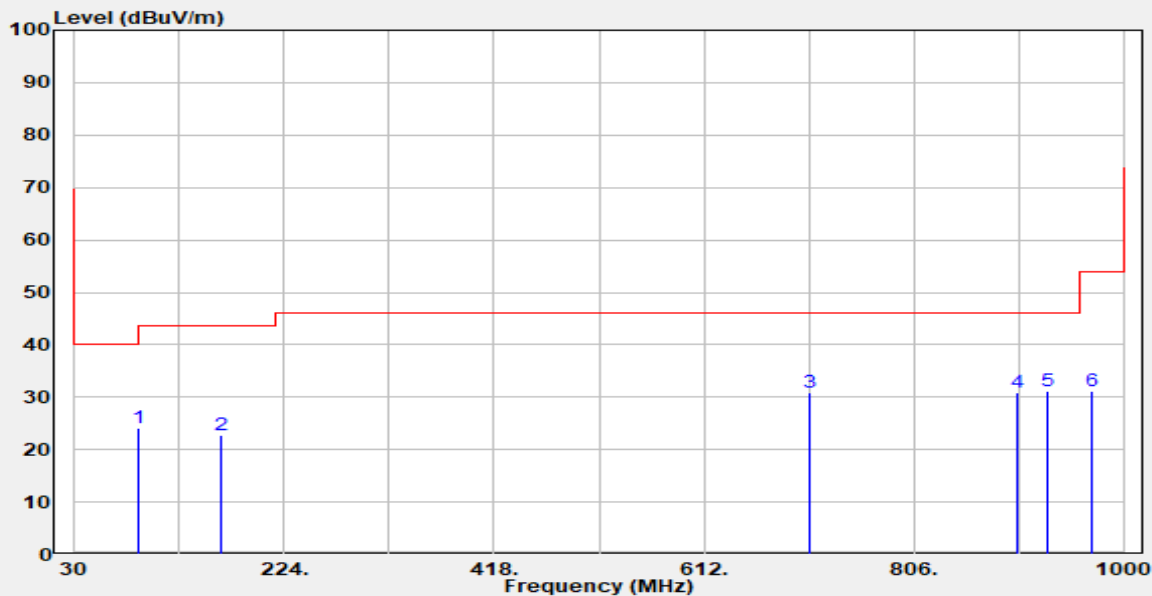
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
37.76	Peak	43.75	-12.31	31.44	40.00	-8.56
103.72	Peak	48.78	-15.93	32.85	43.50	-10.65
748.77	Peak	30.52	-0.71	29.81	46.00	-16.19
797.27	Peak	30.85	-0.06	30.79	46.00	-15.21
951.50	Peak	29.59	1.62	31.21	46.00	-14.79
985.45	Peak	29.71	1.62	31.33	54.00	-22.67

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Report Number :TERF2509002787E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-09-11
Temp./Humi. :22.5°C/58%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
89.17	Peak	41.94	-17.84	24.10	43.50	-19.40
165.80	Peak	34.54	-11.68	22.86	43.50	-20.64
709.97	Peak	32.73	-1.87	30.86	46.00	-15.14
902.03	Peak	30.25	0.66	30.91	46.00	-15.09
929.19	Peak	29.89	1.25	31.14	46.00	-14.86
970.90	Peak	29.45	1.81	31.26	54.00	-22.74

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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)		
4.35	20	13.55923	-0.77000	+/- 1.356
3.8	20	13.55987	-0.13000	+/- 1.356
3.4	20	13.55969	-0.31000	+/- 1.356

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)		
4.35	20	13.55969	-0.31000	+/- 1.356
3.8	20	13.55916	-0.84000	+/- 1.356
3.4	20	13.55949	-0.51000	+/- 1.356

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5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55937	-0.63000	+/- 1.356
3.8	-10	13.55954	-0.46000	+/- 1.356
3.8	0	13.55911	-0.89000	+/- 1.356
3.8	10	13.55923	-0.77000	+/- 1.356
3.8	20	13.55991	-0.09000	+/- 1.356
3.8	30	13.55912	-0.88000	+/- 1.356
3.8	40	13.55946	-0.54000	+/- 1.356
3.8	50	13.55996	-0.04000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
4.35	20	13.55956	-0.44000	+/- 1.356
3.8	20	13.55991	-0.09000	+/- 1.356
3.4	20	13.55986	-0.14000	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.55928	-0.72000	+/- 1.356
3.8	-10	13.55982	-0.18000	+/- 1.356
3.8	0	13.55973	-0.27000	+/- 1.356
3.8	10	13.55962	-0.38000	+/- 1.356
3.8	20	13.55988	-0.12000	+/- 1.356
3.8	30	13.55941	-0.59000	+/- 1.356
3.8	40	13.55961	-0.39000	+/- 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)		
4.35	20	13.55932	-0.68000	+/- 1.356
3.8	20	13.55988	-0.12000	+/- 1.356
3.4	20	13.55929	-0.71000	+/- 1.356

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7.3 Emission Bandwidth

FCC

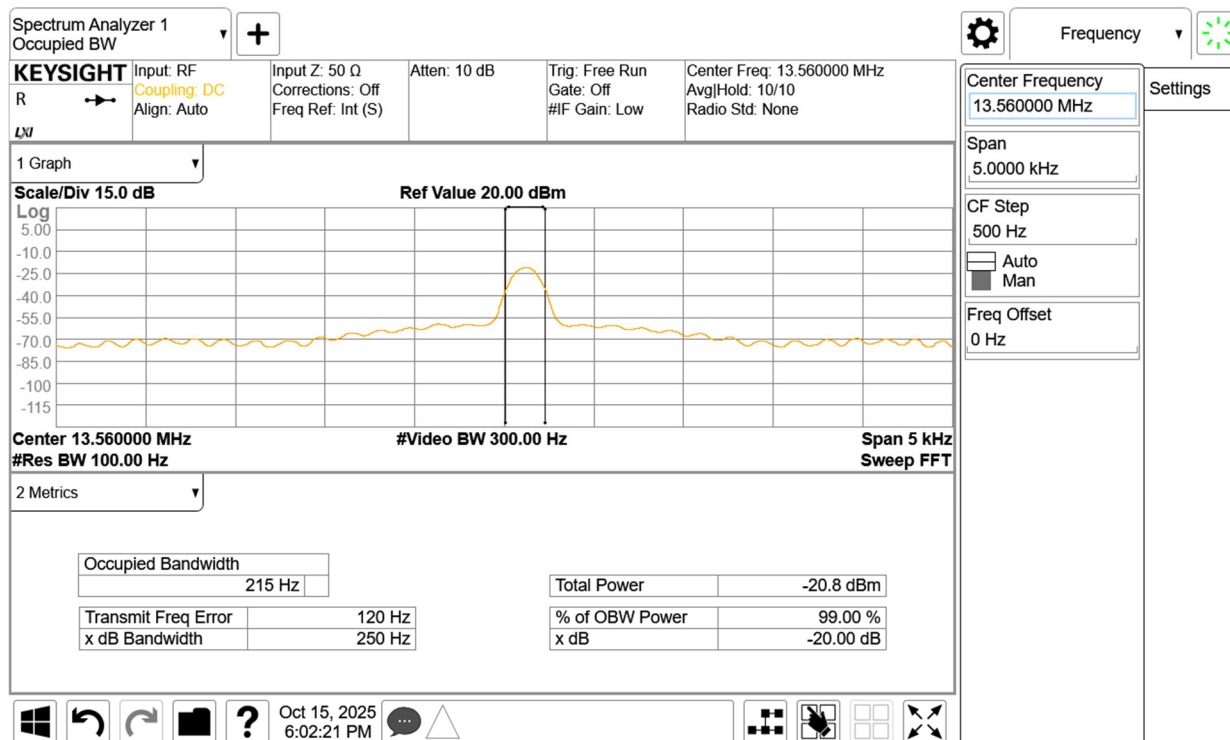
20dB BW (Hz)
250

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.56001	>13.11
High	13.56023	<14.01

IC

99% BW (Hz)
215

7.3.1 Bandwidth



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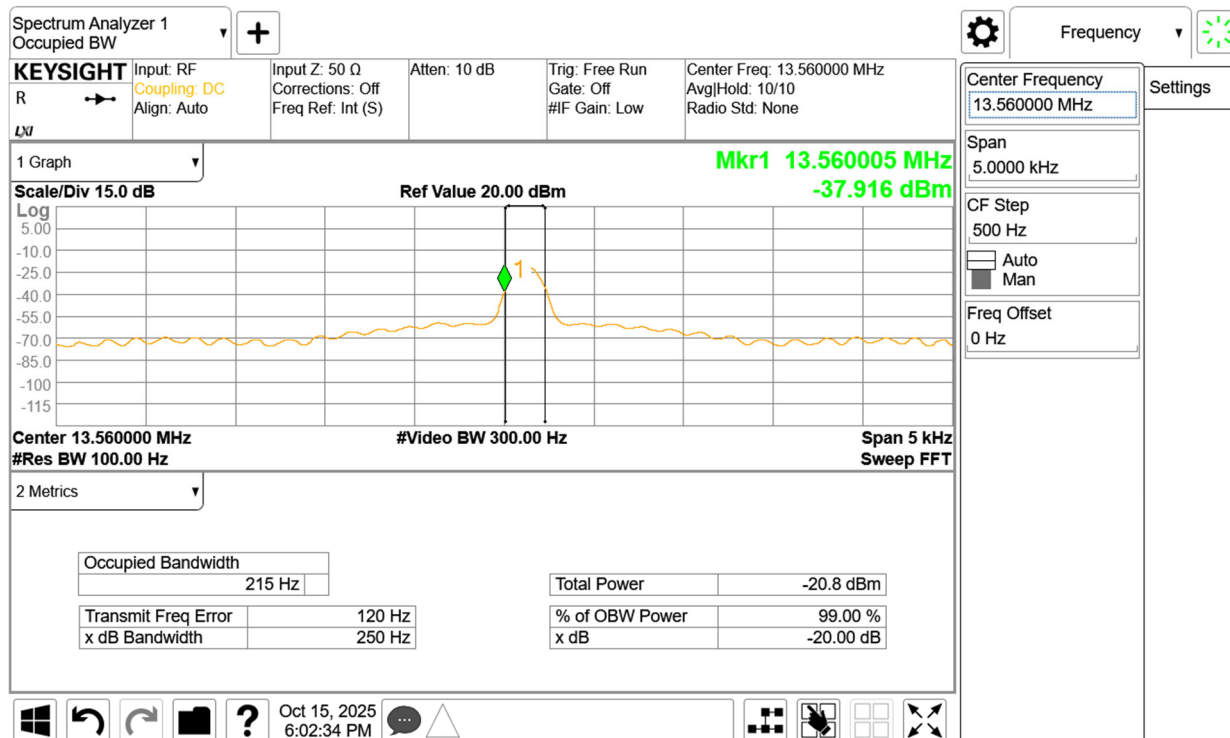
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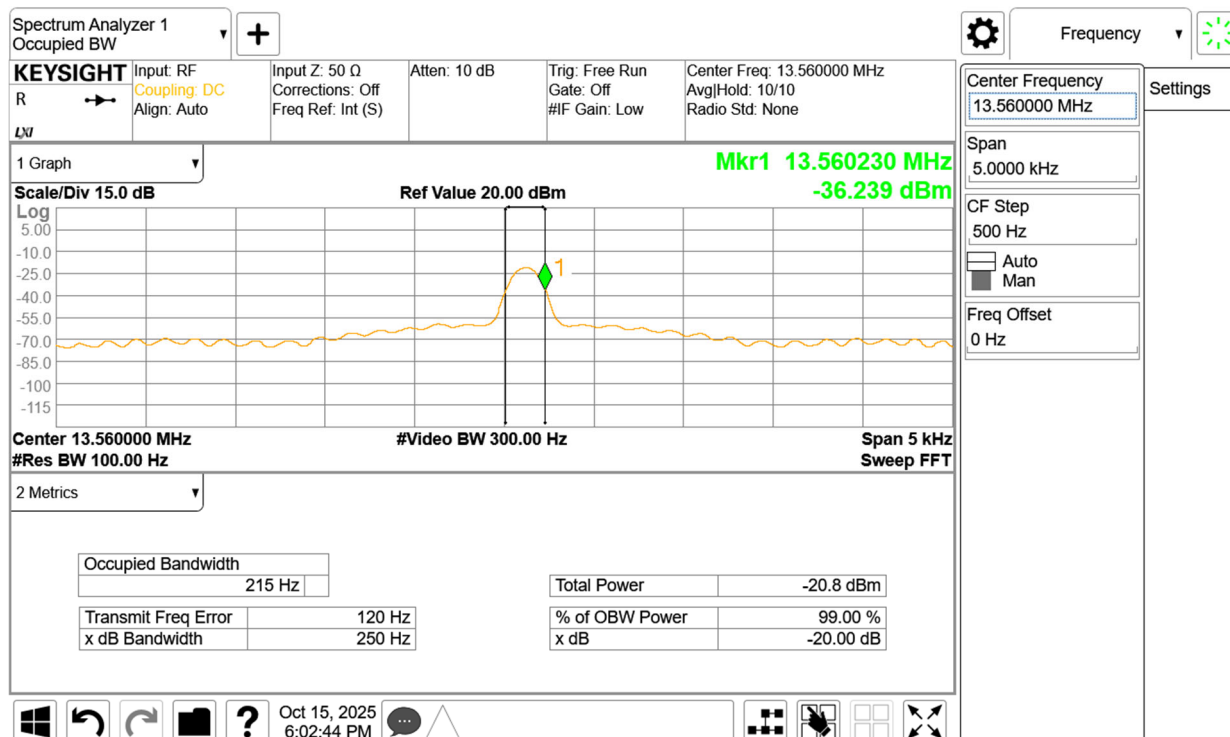
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7.3.1 Operation range low



7.3.2 Operation range High



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7.4 AC Power Line Condcuted

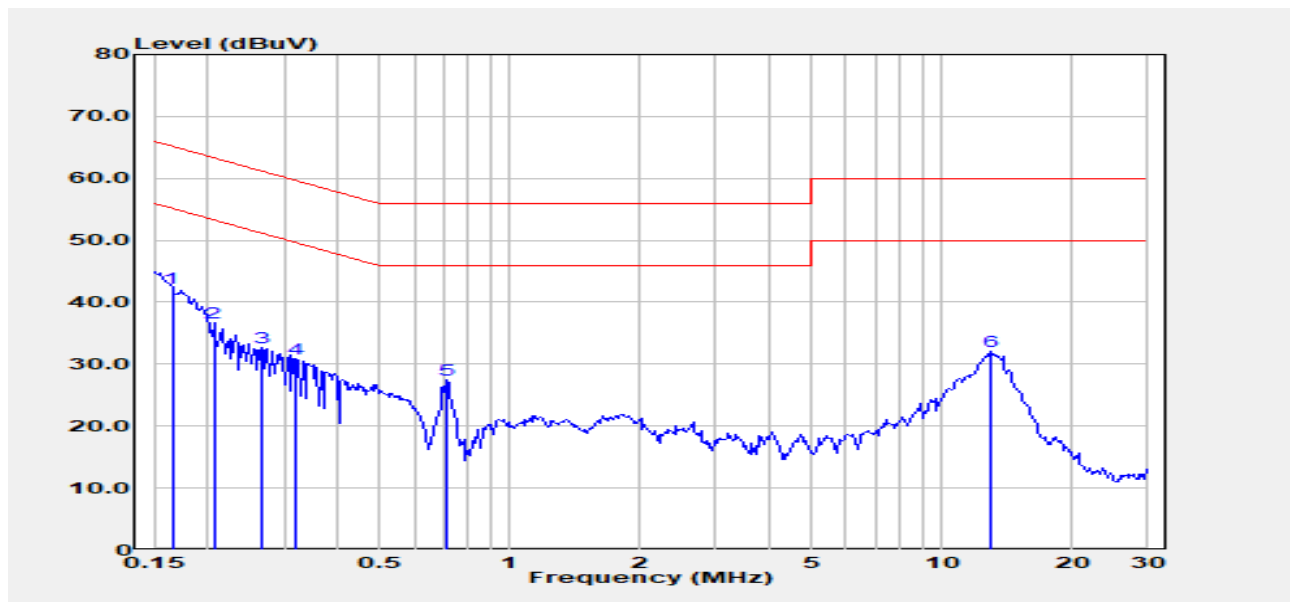
Level = Read Level + Factor

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

Note: Refer to the table below for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

Report Number	:TERF2509002787E2	Test Site	:Conduction C
Test Mode	:NFC	Test Date	:2025-09-12
Power	:120V/60Hz	Temp./Humi.	:25.8°C/55%
Probe	:L1	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
0.165	Peak	31.63	10.65	42.28	65.21	-22.93
0.206	Peak	26.11	10.65	36.76	63.36	-26.60
0.266	Peak	22.14	10.64	32.77	61.25	-28.47
0.318	Peak	20.25	10.63	30.88	59.75	-28.87
0.712	Peak	16.89	10.65	27.54	56.00	-28.46
12.988	Peak	21.00	11.04	32.04	60.00	-27.96

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Report Number :TERF2509002787E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2025-09-12

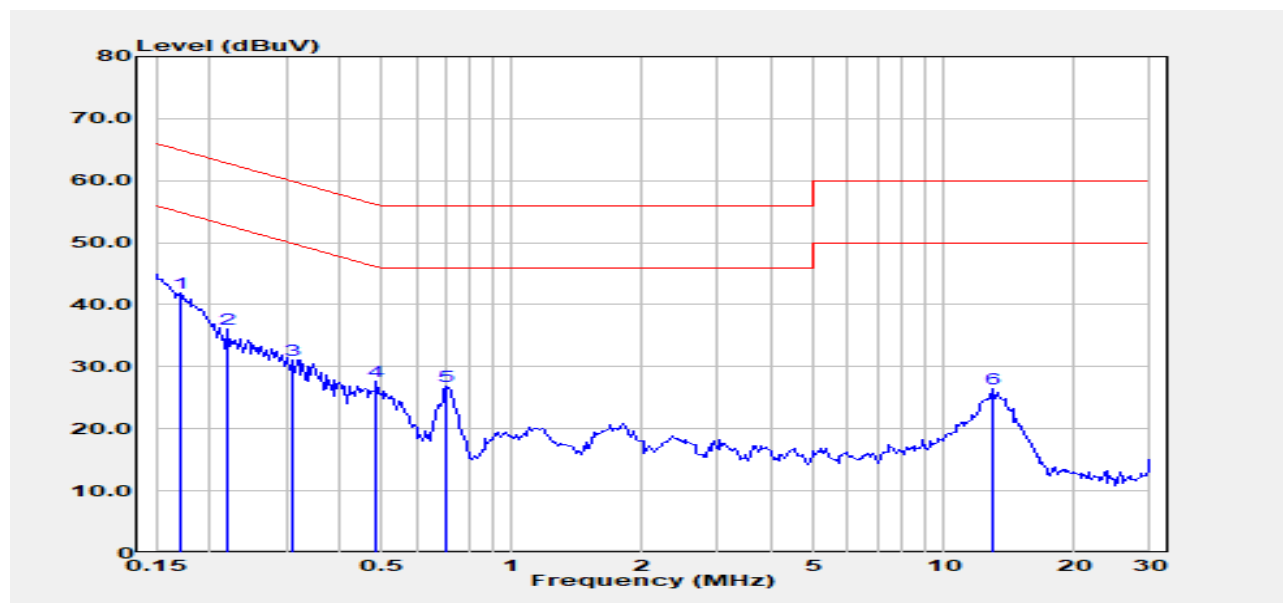
Power :120V/60Hz

Temp./Humi. :25.8°C/55%

Probe :N

Engineer :Jacky Chen

Note :Standby mode



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.170	Peak	31.19	10.66	41.85	64.94	-23.10
0.220	Peak	25.46	10.64	36.10	62.83	-26.73
0.312	Peak	20.47	10.63	31.10	59.93	-28.83
0.486	Peak	17.13	10.60	27.73	56.23	-28.50
0.705	Peak	16.21	10.64	26.85	56.00	-29.15
12.988	Peak	15.51	11.03	26.54	60.00	-33.46

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Report Number :TERF2509002787E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2025-09-12

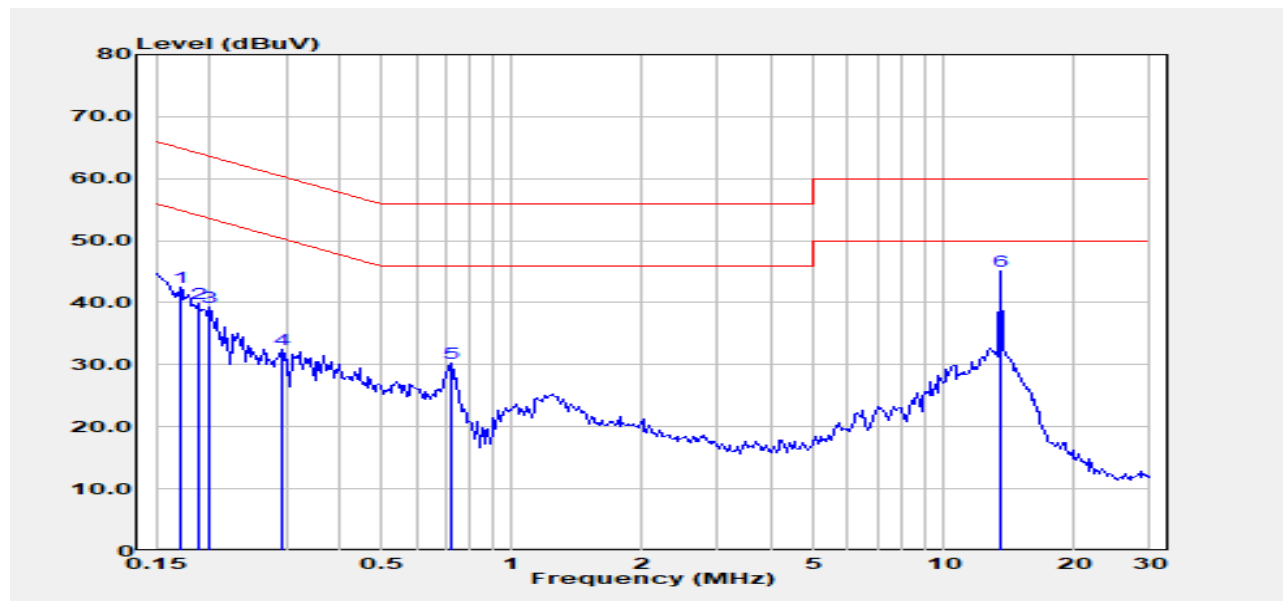
Power :120V/60Hz

Temp./Humi. :25.8°C/55%

Probe :L1

Engineer :Jacky Chen

Note :NFC On



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.170	Peak	31.87	10.65	42.52	64.94	-22.42
0.187	Peak	29.19	10.65	39.84	64.15	-24.31
0.200	Peak	28.73	10.65	39.38	63.62	-24.25
0.292	Peak	21.76	10.63	32.40	60.46	-28.06
0.720	Peak	19.55	10.65	30.21	56.00	-25.79
13.560	Peak	34.08	11.05	45.13	60.00	-14.87

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Report Number :TERF2509002787E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2025-09-12

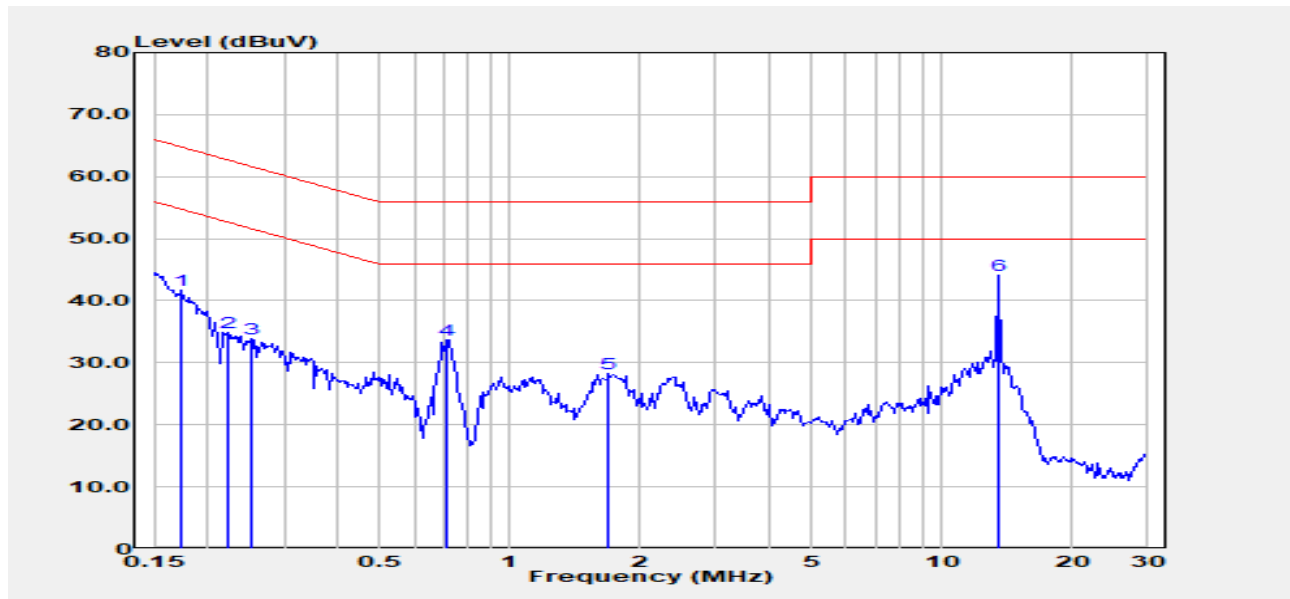
Power :120V/60Hz

Temp./Humi. :25.8°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
0.174	Peak	31.07	10.65	41.72	64.77	-23.05
0.222	Peak	24.33	10.64	34.98	62.74	-27.77
0.252	Peak	23.23	10.64	33.87	61.69	-27.82
0.712	Peak	23.11	10.64	33.75	56.00	-22.25
1.698	Peak	17.64	10.73	28.37	56.00	-27.63
13.560	Peak	33.09	11.04	44.13	60.00	-15.87

~ End of Report ~

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