

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

FCC Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
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ISED Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

ISED Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Flex

Brand Name: Clover

Model No./ ISED HVIN: C406

Report Number: TERF2404001057E2

FCC ID HFS-C406

IC: 1787B-C406

Date of EUT Received: February 22, 2024

Date of Test: April 19, 2024 ~ May 14, 2024

Issue Date: June 24, 2024

Approved By
Aken Huang**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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.225, ISED RSS-210.

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
TERF2404001057E2	00	Original.	May 27, 2024	Kate Lai	
TERF2404001057E2	01	Revise: ISED HVIN 1.3 Test Methodology 6.3 Radiated Measurement	June 24, 2024	Kate Lai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Flex
Brand Name:	Clover
Model No.:	C406
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C246LG41240102 (Conducted) C046UG41240069 (Conduction 、Radiated)
Power Supply:	7.6 Vdc from Rechargeable Li-ion Polymer Battery
Test Software (Name/Version)	N/A

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	36.38 dBuV/m at 30m; 76.38 dBuV/m at 3m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop Antenna

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C §15.225

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

RSS-210 Annex B.2 Issue 10 December 2019, Amendment (April 2020).

ANSI C63.10:2013.

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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	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	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

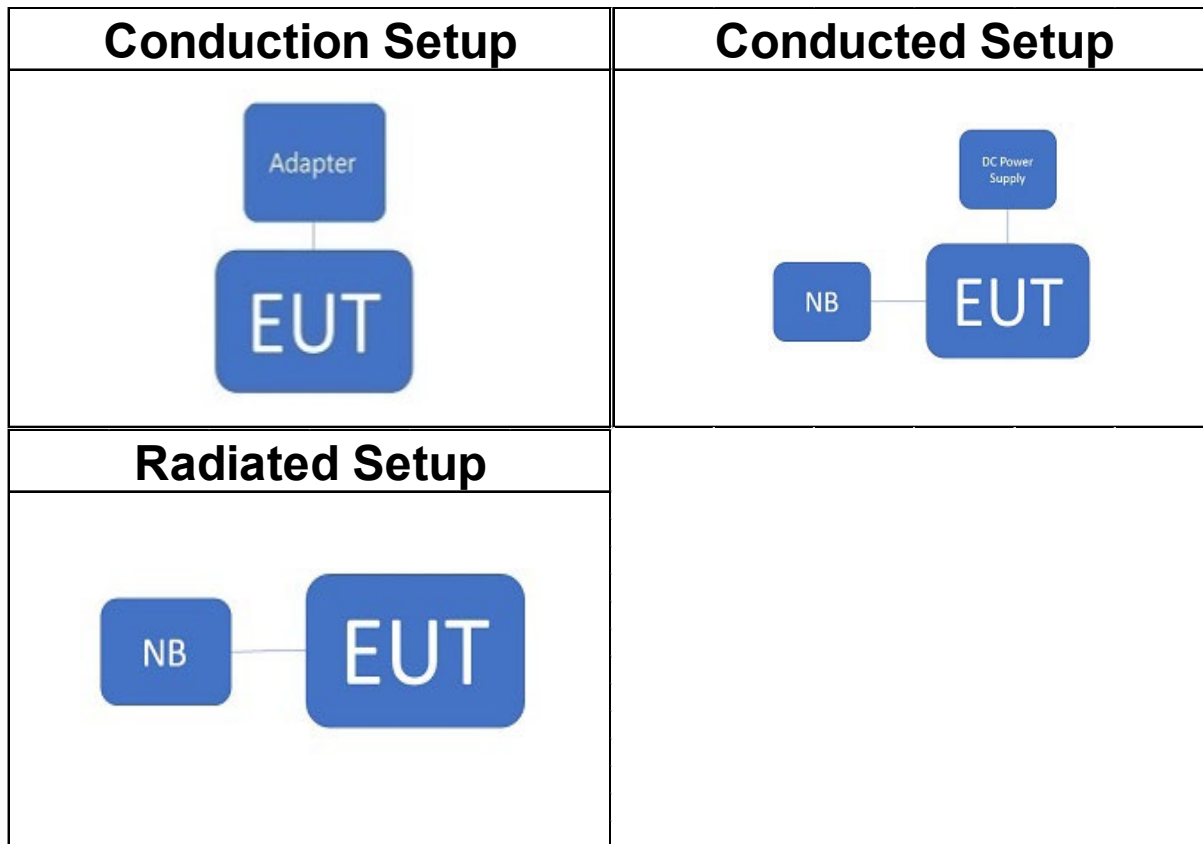
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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2.4 Test Configuration



2.5 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Lapo	WT-02CA	N/A	N/A	N/A
Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.225 (a)-(d)	RSS210 Annex B B.6 (a)	Radiated Emission	Compliant
§15.209	RSS-Gen § 8.9	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	RSS210 Annex B B.6 (b)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	RSS-Gen § 6.7	Emission Bandwidth	Compliant
§15.203	N/A	Antenna Requirement	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT stay in continuous transmission mode.
2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
3. 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

The field strength of radiated 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.

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5 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
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
H-Loop Near Field Antenna	LANGER EMV- Technik	LF-R 400	02-1597	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/20/2023	06/19/2024
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/17/2023	06/16/2024
DC Power Supply	Agilent	E3640A	MY53130054	10/02/2023	10/01/2024
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024

6.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

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

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7 CONDUCTED EMISSIONS TEST

7.1 Standard Applicable

Frequency within 150 kHz 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

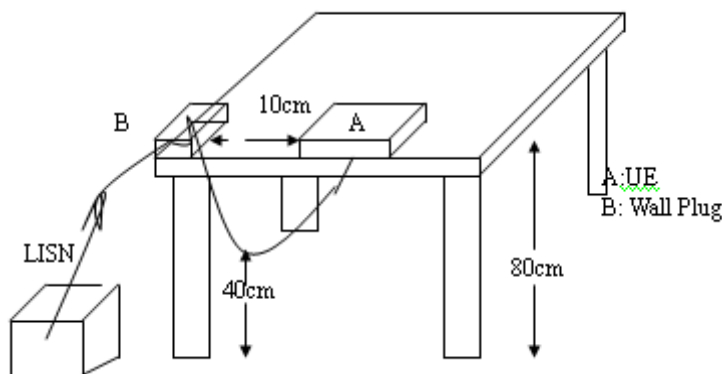
Note

- 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.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP (Block Diagram of Configuration)



7.4 Measurement 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.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

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

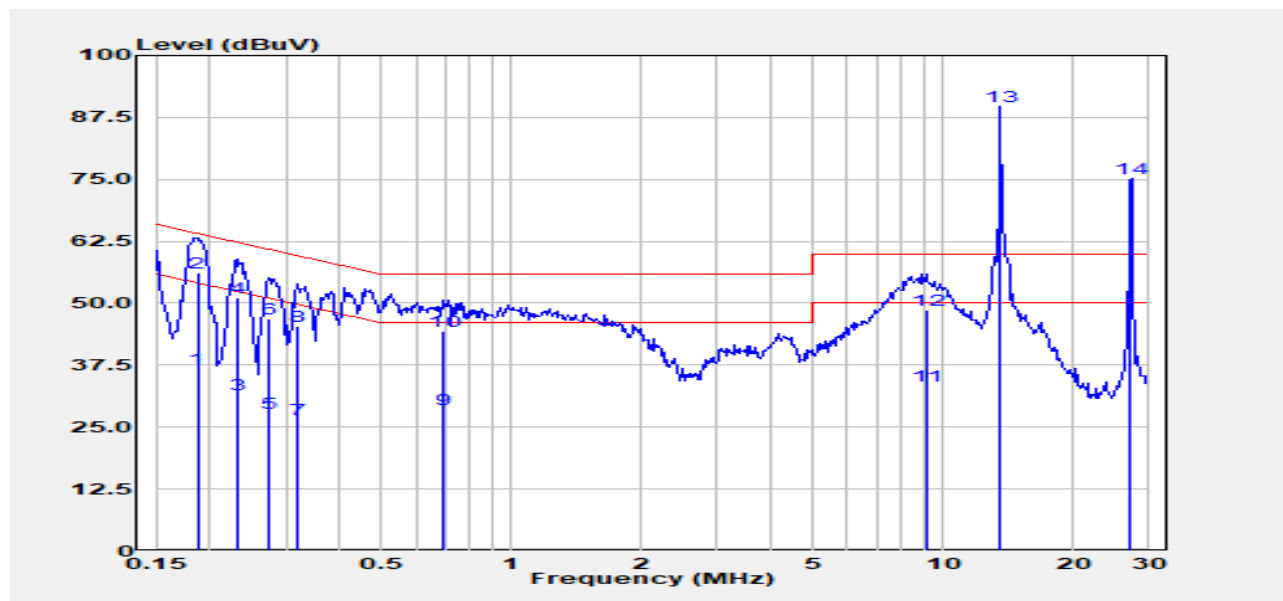
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2404001057E2	Test Site	:Conduction C
Test Mode	:NFC	Test Date	:2024-05-02
Power	:120V/60Hz	Temp./Humi.	:23.2°C/55%
Probe	:L1	Engineer	:Howard Huang
Note	:NFC ON		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.187	Average	26.20	10.65	36.85	54.17	-17.32
0.187	QP	45.60	10.65	56.25	64.17	-7.92
0.231	Average	21.00	10.64	31.64	52.40	-20.76
0.231	QP	40.60	10.64	51.24	62.40	-11.16
0.274	Average	17.10	10.64	27.74	50.99	-23.26
0.274	QP	36.20	10.64	46.84	60.99	-14.16
0.319	Average	15.90	10.63	26.53	49.72	-23.19
0.319	QP	34.70	10.63	45.33	59.72	-14.39
0.697	Average	17.80	10.65	28.45	46.00	-17.55
0.697	QP	33.70	10.65	44.35	56.00	-11.65
9.138	Average	22.30	10.96	33.26	50.00	-16.74
9.138	QP	37.70	10.96	48.66	60.00	-11.34
13.560	Peak	—	—	—	—	—
27.120	Peak	—	—	—	—	—

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Report Number :TERF2404001057E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-02

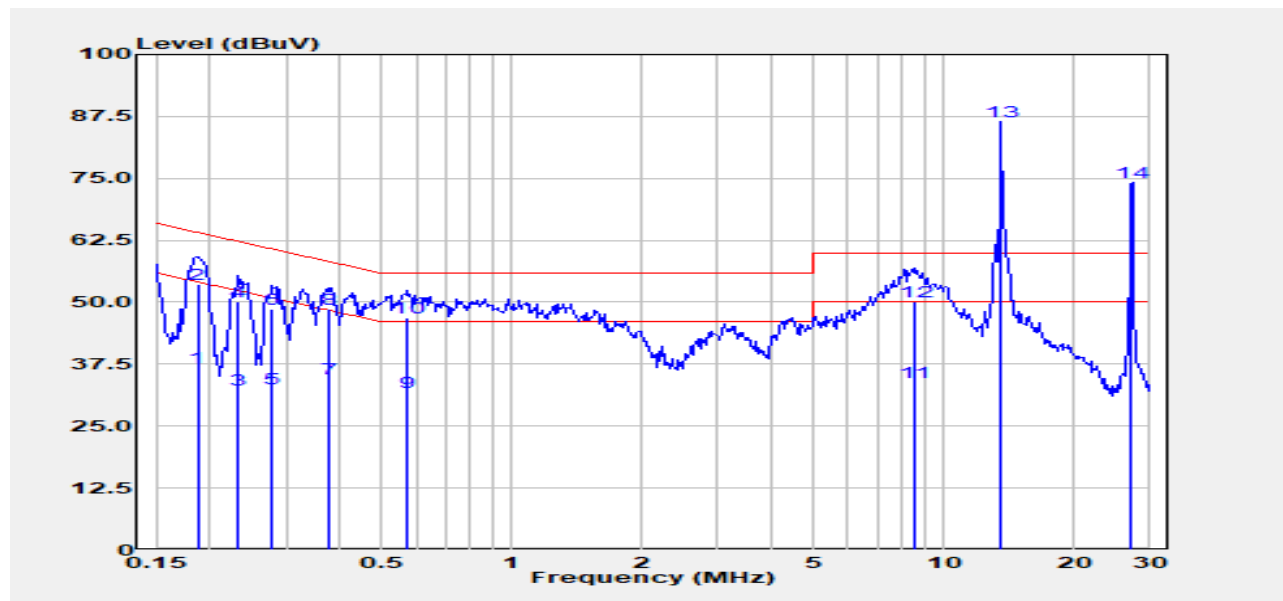
Power :120V/60Hz

Temp./Humi. :23.2°C/55%

Probe :N

Engineer :Howard Huang

Note :NFC ON



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.187	Average	26.10	10.65	36.75	54.17	-17.41
0.187	QP	43.00	10.65	53.65	64.17	-10.51
0.233	Average	21.60	10.64	32.24	52.33	-20.09
0.233	QP	39.60	10.64	50.24	62.33	-12.09
0.279	Average	21.90	10.63	32.53	50.85	-18.32
0.279	QP	38.10	10.63	48.73	60.85	-12.12
0.375	Average	24.00	10.62	34.62	48.38	-13.77
0.375	QP	38.10	10.62	48.72	58.38	-9.67
0.574	Average	21.20	10.62	31.82	46.00	-14.18
0.574	QP	36.30	10.62	46.92	56.00	-9.08
8.538	Average	22.80	10.95	33.75	50.00	-16.25
8.538	QP	39.30	10.95	50.25	60.00	-9.75
13.560	Peak	—	—	—	—	—
27.120	Peak	—	—	—	—	—

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Report Number :TERF2404001057E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-02

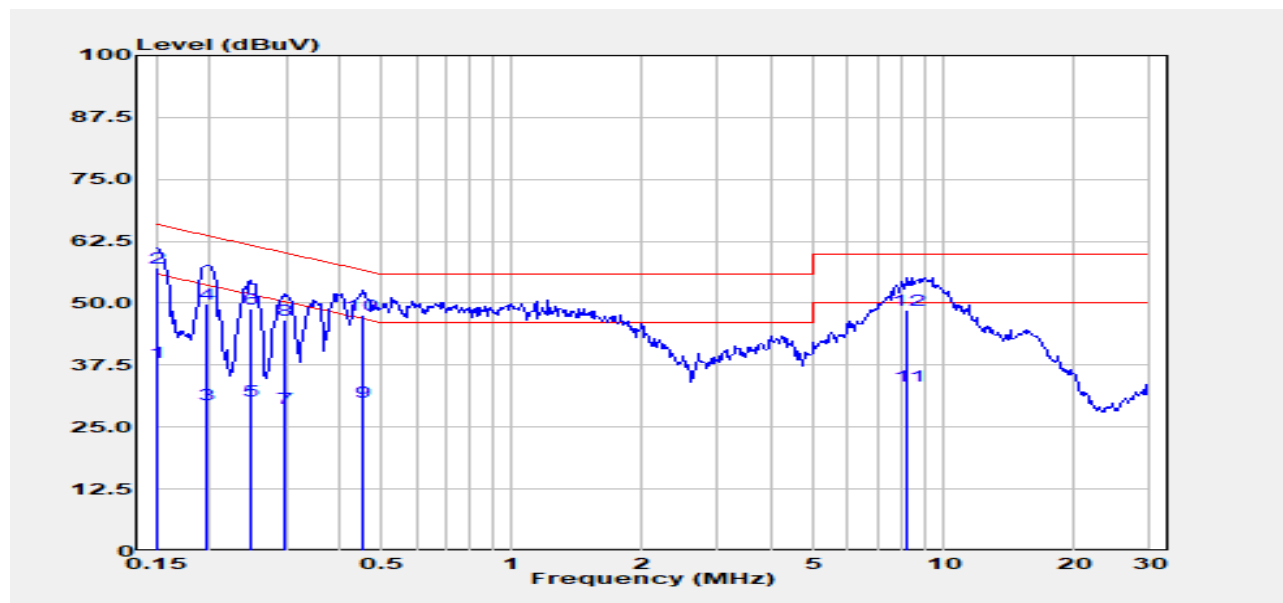
Power :120V/60Hz

Temp./Humi. :23.2°C/55%

Probe :L1

Engineer :Howard Huang

Note :Standby Mode*



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	27.50	10.65	38.15	55.93	-17.78
0.151	QP	46.40	10.65	57.05	65.93	-8.88
0.195	Average	19.00	10.65	29.65	53.81	-24.16
0.195	QP	39.10	10.65	49.75	63.81	-14.06
0.248	Average	19.80	10.64	30.44	51.84	-21.40
0.248	QP	38.30	10.64	48.94	61.84	-12.90
0.296	Average	18.10	10.63	28.73	50.36	-21.62
0.296	QP	36.00	10.63	46.63	60.36	-13.72
0.449	Average	19.40	10.62	30.02	46.90	-16.88
0.449	QP	37.00	10.62	47.62	56.90	-9.28
8.253	Average	22.40	10.96	33.36	50.00	-16.64
8.253	QP	37.70	10.96	48.66	60.00	-11.34

*Terminate the RF output and retest with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band.

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Report Number :TERF2404001057E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-02

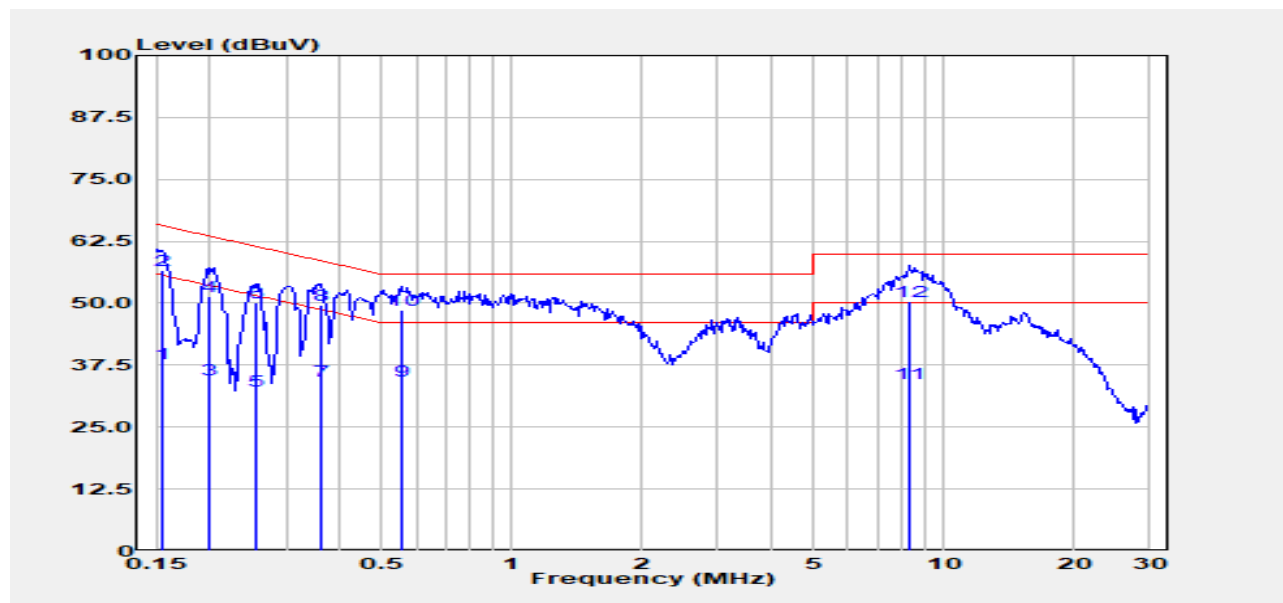
Power :120V/60Hz

Temp./Humi. :23.2°C/55%

Probe :N

Engineer :Howard Huang

Note :Standby Mode*



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	27.10	10.66	37.76	55.72	-17.96
0.155	QP	45.90	10.66	56.56	65.72	-9.16
0.199	Average	24.00	10.65	34.65	53.67	-19.02
0.199	QP	40.70	10.65	51.35	63.67	-12.32
0.256	Average	21.70	10.64	32.34	51.56	-19.22
0.256	QP	39.60	10.64	50.24	61.56	-11.32
0.363	Average	23.60	10.62	34.22	48.67	-14.45
0.363	QP	39.00	10.62	49.62	58.67	-9.05
0.555	Average	23.80	10.61	34.41	46.00	-11.59
0.555	QP	38.10	10.61	48.71	56.00	-7.29
8.323	Average	23.00	10.95	33.95	50.00	-16.05
8.323	QP	39.50	10.95	50.45	60.00	-9.55

*Terminate the RF output and retest with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band.

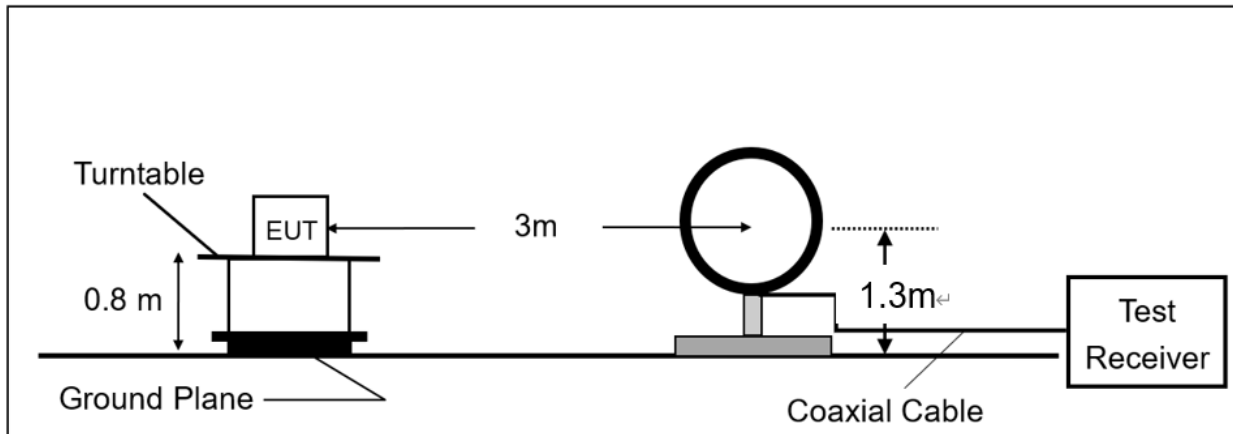
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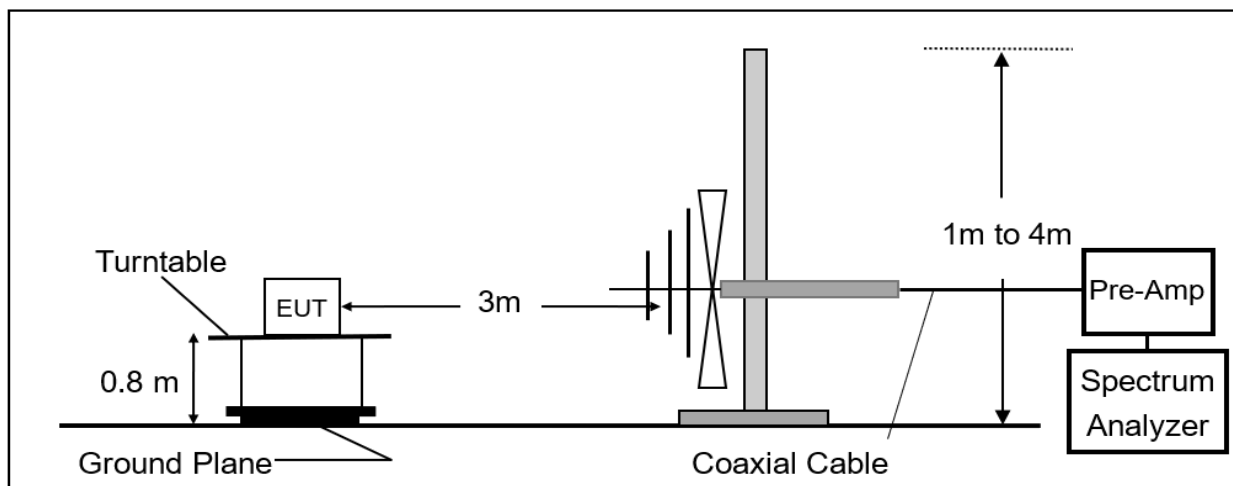
8 RADIATED EMISSION TEST

8.1 Test SET-UP (Block Diagram of Configuration)

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



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



8.2 Measurement Procedure

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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8.3 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	

8.4 Field Strength of Fundamental Emission

8.4.1 Applicable standard

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)	
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

Radiated Mask per ISED RSS 210 Annex B B6

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

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8.4.2 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.
3. 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.

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

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

Above 30 MHz of Factor(dB) = Antenna Factor(dBμV/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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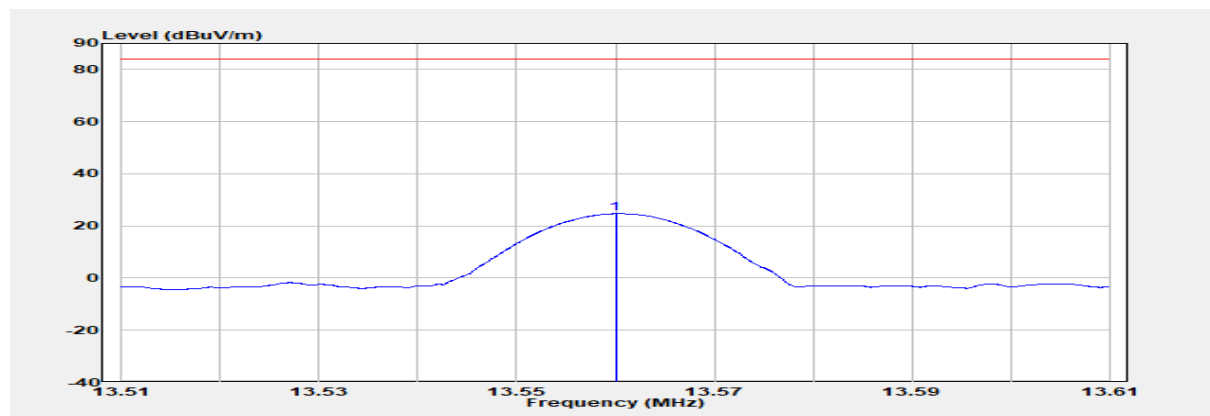
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8.4.3 Field Strength of Fundamental Emission Measurement Result

Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual dB μ V/m	Limit dB μ V/m	Margin dB
13.560	Peak	49.28	-24.60	24.68	84.00	-59.32

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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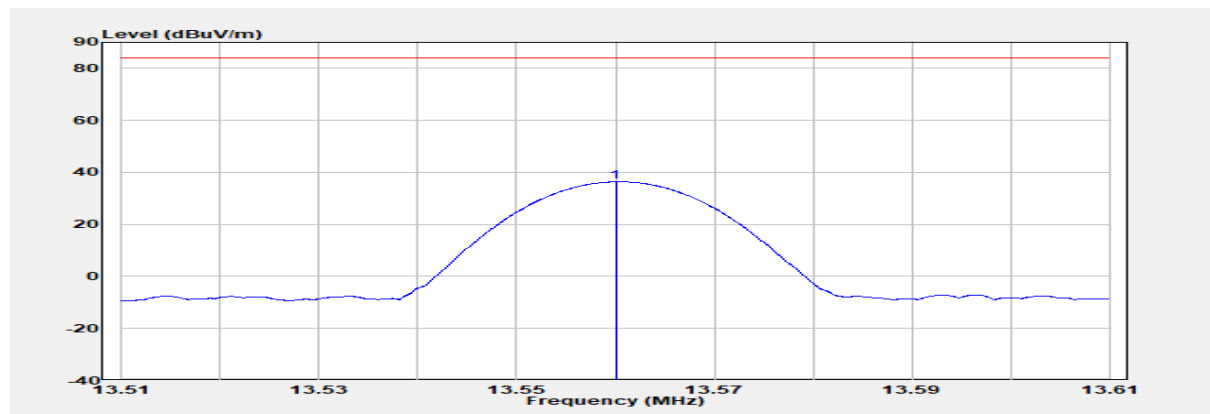
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Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
13.560	Peak	60.98	-24.60	36.38	84.00	-47.62

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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8.5 Radiated Spurious Emission Measurement

8.5.1 Standard Applicable

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:

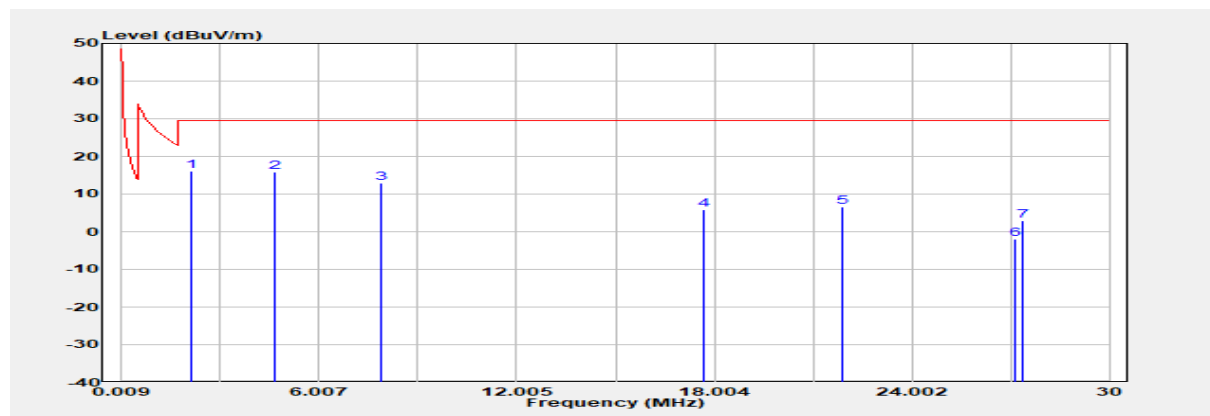
1. Emission level in dBμV/m = $20 \log (\mu\text{V/m})$
2. Distance extrapolation factor = $40 \log (\text{required distance} / \text{test distance})$ (dB)
3. $20 * \log(30 \mu\text{V/m}) = 29.54$ dBuV/m
4. The lower limit shall apply at the transition frequencies.
5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205 and RSS-Gen §8.10.
7. The general radiated emission limits in §15.209 and RSS-Gen §8.9 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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8.5.2 Radiated Spurious Emission Measurement Result

Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual dBμV/m	Limit dBμV/m	Margin dB
2.108	Peak	42.18	-26.03	16.15	29.54	-13.39
4.658	Peak	41.38	-25.41	15.97	29.54	-13.57
7.867	Peak	37.75	-24.91	12.84	29.54	-16.70
17.704	Peak	30.42	-24.61	5.81	29.54	-23.73
21.902	Peak	31.55	-25.07	6.47	29.54	-23.07
27.120	Peak	24.28	-26.33	-2.06	29.54	-31.60
27.391	Peak	29.30	-26.40	2.90	29.54	-26.64

Actual level = Reading level + Factor

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

Test distance= 3m

For Actual level and limit:

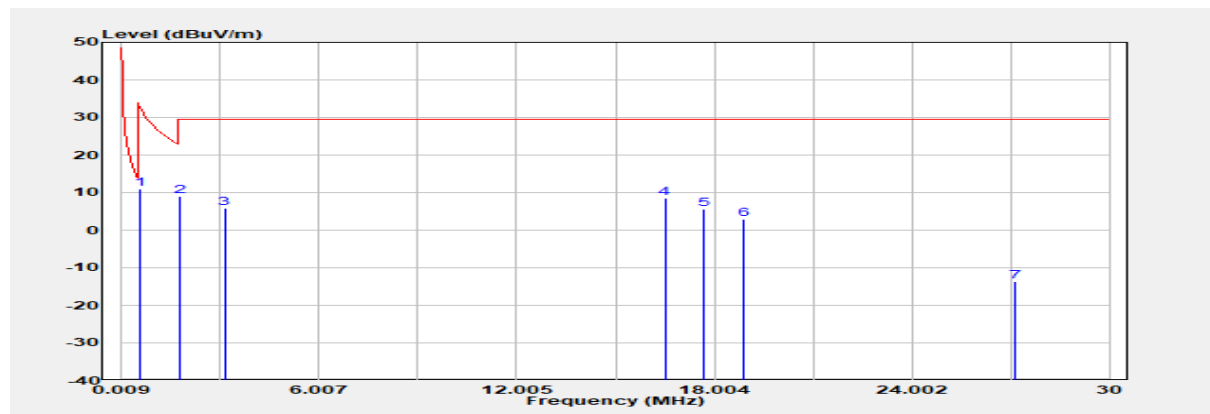
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

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

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Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual dB μ V/m	Limit dB μ V/m	Margin dB
0.549	Peak	37.52	-26.65	10.87	32.82	-21.95
1.748	Peak	35.27	-26.14	9.12	29.54	-20.42
3.128	Peak	31.49	-25.73	5.76	29.54	-23.78
16.504	Peak	33.10	-24.61	8.50	29.54	-21.04
17.704	Peak	30.11	-24.61	5.50	29.54	-24.04
18.873	Peak	27.51	-24.61	2.90	29.54	-26.64
27.120	Peak	12.75	-26.33	-13.58	29.54	-43.12

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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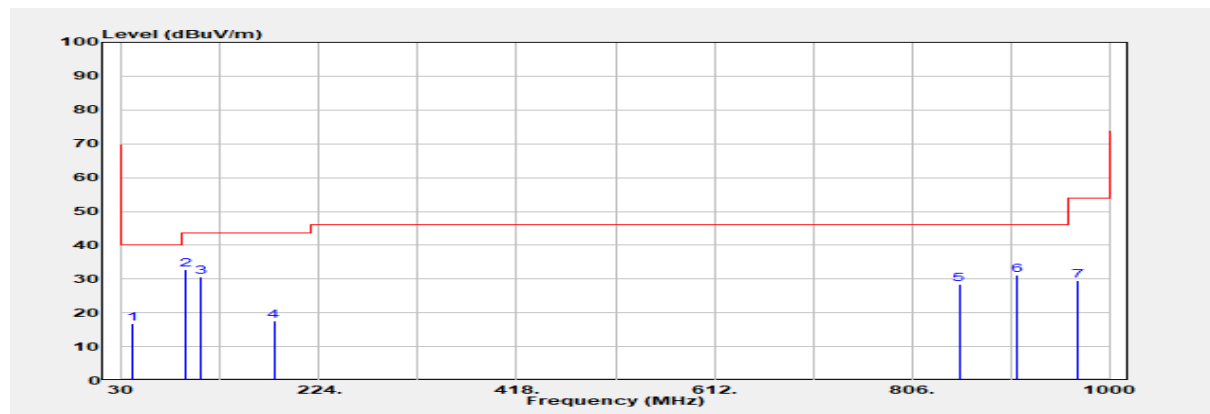
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Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual dB μ V/m	Limit dB μ V/m	Margin dB
40.680	Peak	33.45	-16.77	16.68	40.00	-23.32
92.080	Peak	54.45	-21.59	32.86	43.50	-10.64
107.600	Peak	50.22	-19.50	30.72	43.50	-12.78
179.380	Peak	35.05	-17.50	17.55	43.50	-25.95
852.560	Peak	31.04	-2.64	28.40	46.00	-17.60
908.820	Peak	33.01	-1.82	31.19	46.00	-14.81
969.930	Peak	30.32	-0.90	29.42	54.00	-24.58

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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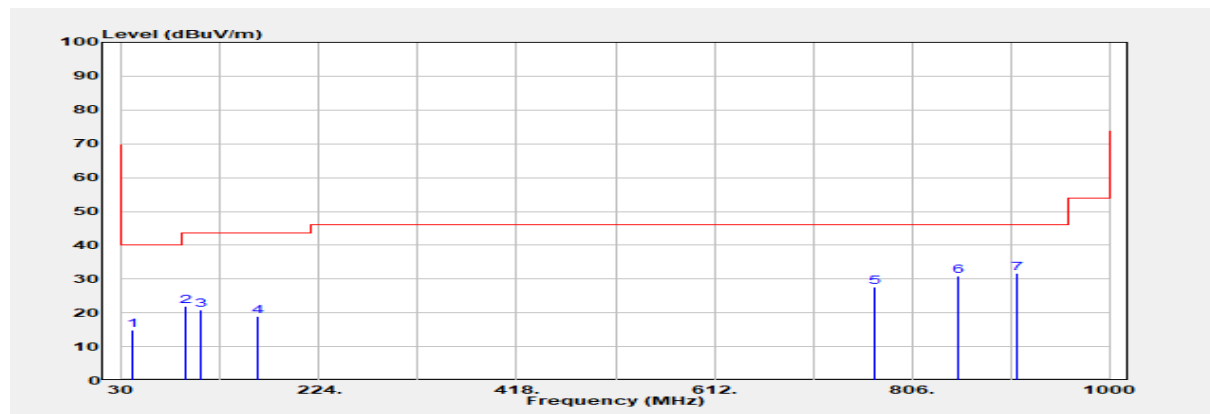
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Report Number	:TERF2404001057E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-04-24
Test Frequency	:13.56 MHz	Temp./Humi.	:20.7°C/61%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual dB μ V/m	Limit dB μ V/m	Margin dB
40.680	Peak	31.72	-16.77	14.96	40.00	-25.04
92.080	Peak	43.54	-21.59	21.96	43.50	-21.54
107.600	Peak	40.43	-19.50	20.93	43.50	-22.57
162.890	Peak	34.89	-15.96	18.93	43.50	-24.57
769.140	Peak	31.36	-3.61	27.74	46.00	-18.26
851.590	Peak	33.54	-2.63	30.91	46.00	-15.09
908.820	Peak	33.51	-1.82	31.69	46.00	-14.31

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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9 FREQUENCY STABILITY

9.1 Applicable Standard

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

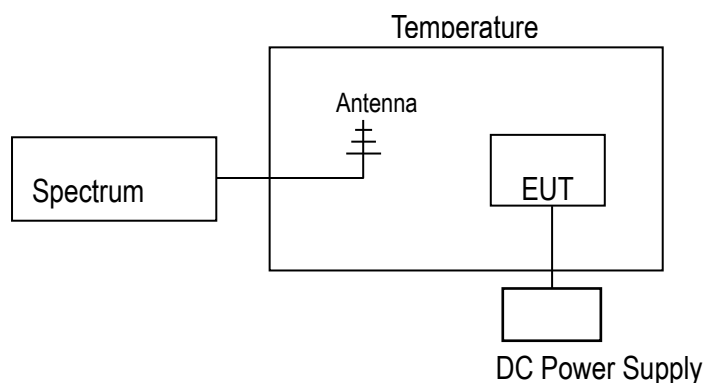
Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), $+20^{\circ}\text{C}$ ($+68^{\circ}\text{F}$) and $+50^{\circ}\text{C}$ ($+122^{\circ}\text{F}$). (ISED)

9.2 Measurement Procedure

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

9.3 Test SET-UP (Block Diagram of Configuration)



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9.4 Measurement Results

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
7.6	-20	13.55988	-0.12000	+/- 1.356
7.6	-10	13.55926	-0.74000	+/- 1.356
7.6	0	13.55961	-0.39000	+/- 1.356
7.6	10	13.55993	-0.07000	+/- 1.356
7.6	20	13.56002	0.02000	+/- 1.356
7.6	30	13.55909	-0.91000	+/- 1.356
7.6	40	13.55983	-0.17000	+/- 1.356
7.6	50	13.55995	-0.05000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
8.74	20	13.55907	-0.93000	+/- 1.356
7.6	20	13.56002	0.02000	+/- 1.356
6.46	20	13.55969	-0.31000	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
7.6	-20	13.55997	-0.03000	+/- 1.356
7.6	-10	13.55942	-0.58000	+/- 1.356
7.6	0	13.55944	-0.56000	+/- 1.356
7.6	10	13.55911	-0.89000	+/- 1.356
7.6	20	13.55995	-0.05000	+/- 1.356
7.6	30	13.55907	-0.93000	+/- 1.356
7.6	40	13.55924	-0.76000	+/- 1.356
7.6	50	13.55973	-0.27000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
8.74	20	13.55966	-0.34000	+/- 1.356
7.6	20	13.55995	-0.05000	+/- 1.356
6.46	20	13.55954	-0.46000	+/- 1.356

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5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
7.6	-20	13.55968	-0.32000	+/- 1.356
7.6	-10	13.55944	-0.56000	+/- 1.356
7.6	0	13.55907	-0.93000	+/- 1.356
7.6	10	13.55916	-0.84000	+/- 1.356
7.6	20	13.55918	-0.82000	+/- 1.356
7.6	30	13.55973	-0.27000	+/- 1.356
7.6	40	13.55965	-0.35000	+/- 1.356
7.6	50	13.56002	0.02000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
8.74	20	13.55933	-0.67000	+/- 1.356
7.6	20	13.55918	-0.82000	+/- 1.356
6.46	20	13.55983	-0.17000	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
7.6	-20	13.55952	-0.48000	+/- 1.356
7.6	-10	13.55928	-0.72000	+/- 1.356
7.6	0	13.55918	-0.82000	+/- 1.356
7.6	10	13.55974	-0.26000	+/- 1.356
7.6	20	13.55906	-0.94000	+/- 1.356
7.6	30	13.55981	-0.19000	+/- 1.356
7.6	40	13.55906	-0.94000	+/- 1.356
7.6	50	13.55976	-0.24000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
8.74	20	13.55915	-0.85000	+/- 1.356
7.6	20	13.55906	-0.94000	+/- 1.356
6.46	20	13.55904	-0.96000	+/- 1.356

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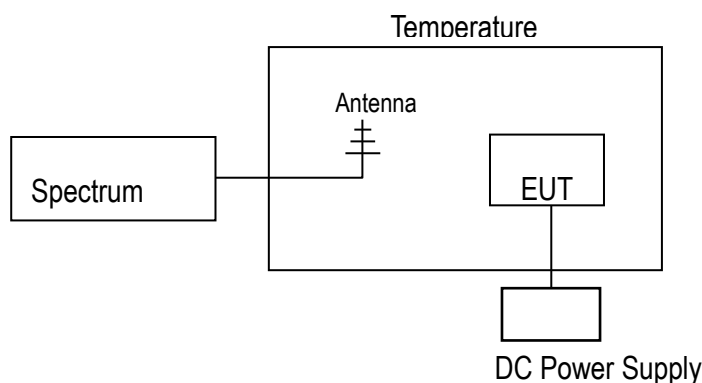
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10 EMISSION BANDWIDTH MEASUREMENT

10.1 Applicable Standard:

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

10.2 Test Set-up



10.3 Measurement Procedure

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set SPA Center Frequency = fundamental frequency, RBW=1% to 5% OBW, VBW=3 x RBW, Span = large enough to capture all products of the modulation process.
4. Measured the spectrum width with power higher than 20dB below carrier.

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10.4 Measurement Result

FCC

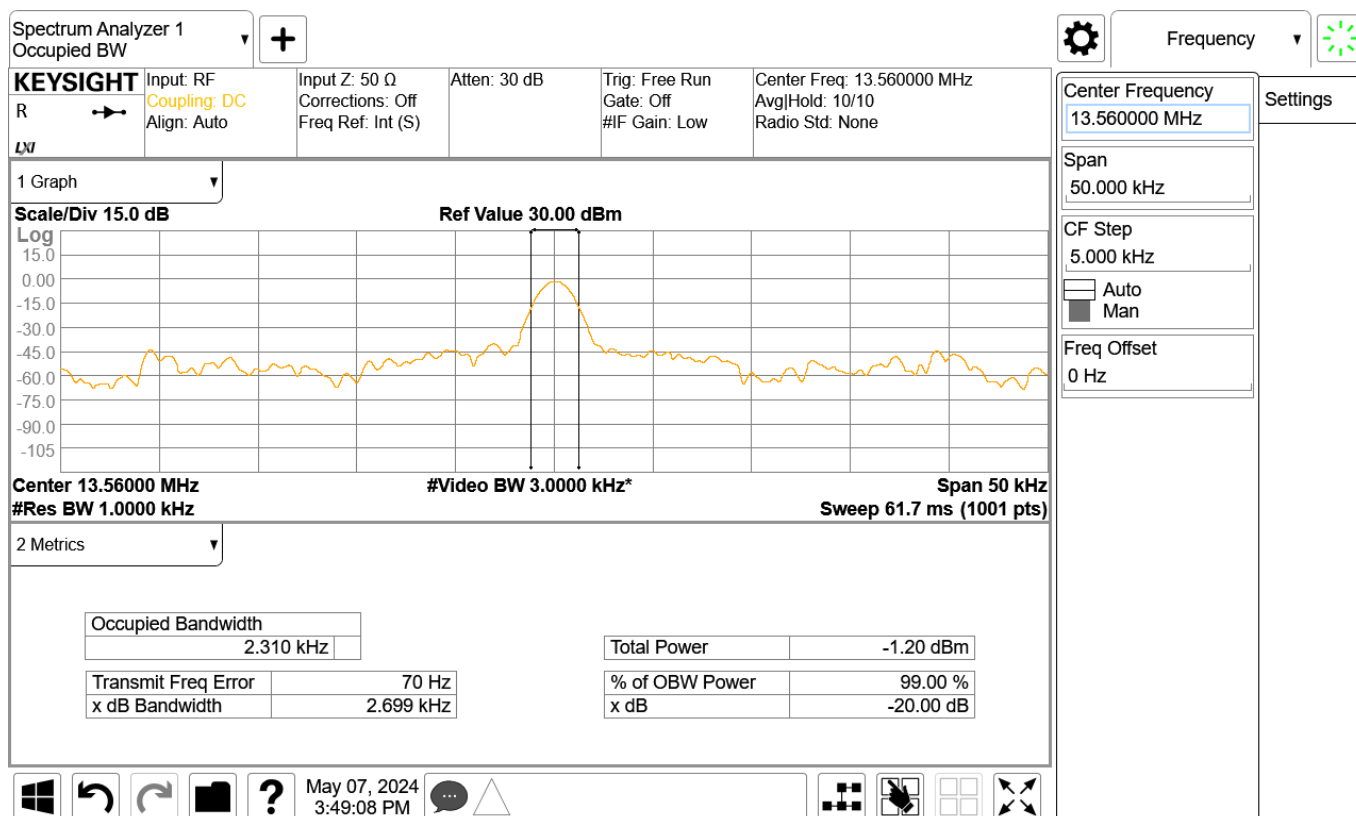
20dB BW (kHz)
2.699

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.55885	>13.11
High	13.56125	<14.01

IC

99% BW (kHz)
2.31

Bandwidth



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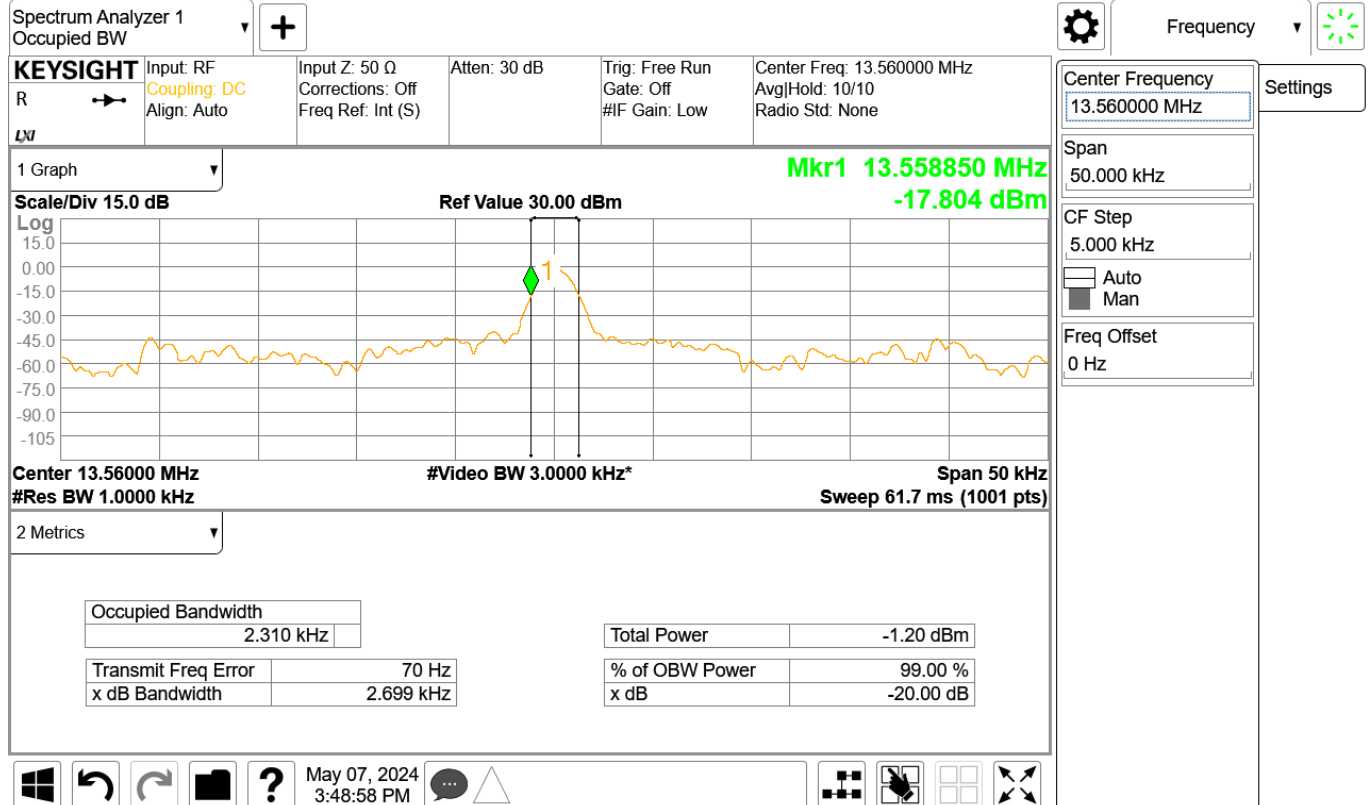
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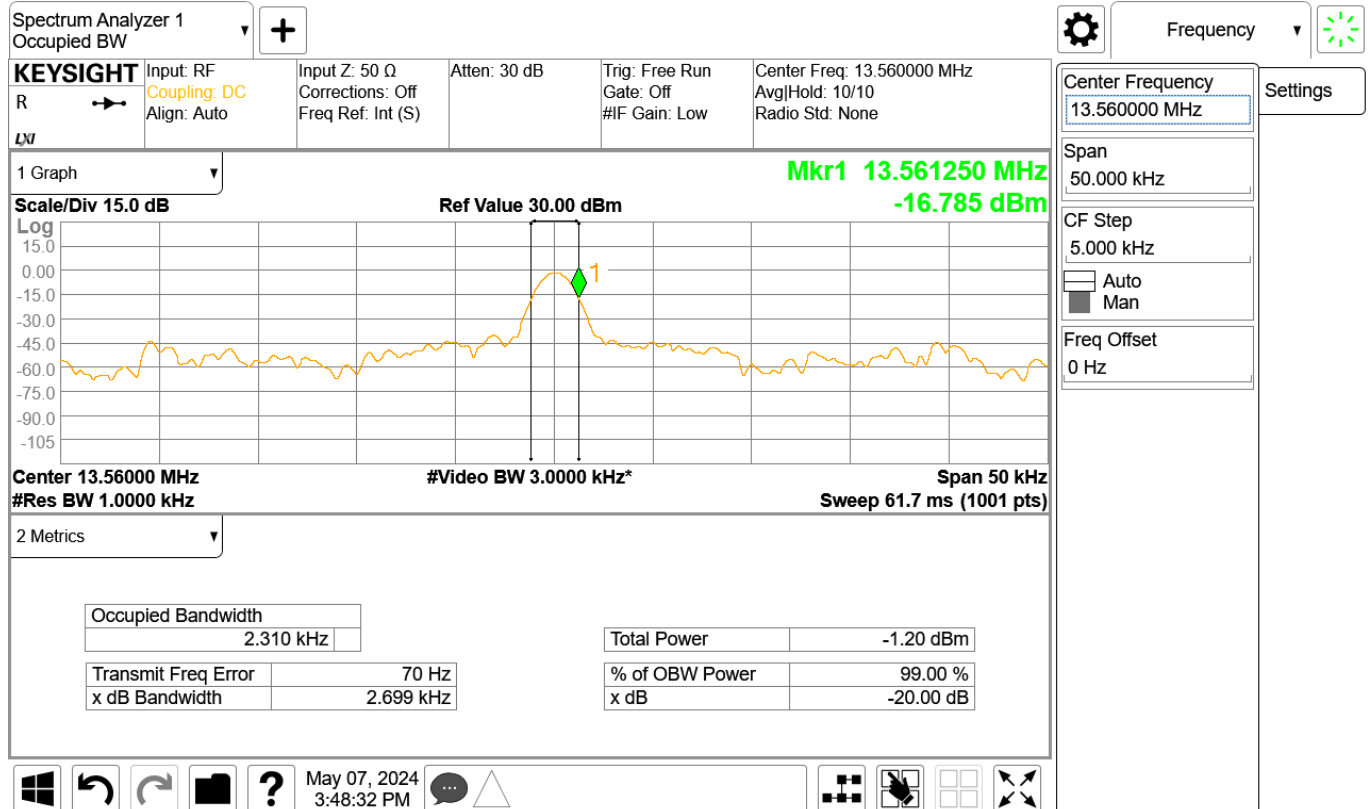
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Operation range low



Operation range High



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11 ANTENNA REQUIREMENT

11.1 Standard Applicable:

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.

11.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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