

MEASUREMENT REPORT

FCC PART 15.225 / NFC 13.56MHz

FCC ID: HD5-EDA5S0

Applicant: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Mobile Computer

Model No.: EDA5S-0

Brand Name: Honeywell

FCC Classification: Part 15 Low Power Communication Device Transmitter (DXX)

FCC Rule Part(s): Part 15 Subpart C (Section 15.225)

Test Procedure(s): ANSI C63.10-2013

Test Date: December 29 ~ 31, 2021

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2111RSU063-U6	Rev. 01	Initial Report	12-31-2021	Valid

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1. General Information

1.1. Applicant

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bailes Road, Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bailes Road, Fort Mill, SC 29707 United States

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong)
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP)
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01
	CNAS: L10551
	FCC: CN1166
	ISED: CN0001
	VCCI:
	<input type="checkbox"/> R-20025
	<input type="checkbox"/> G-20034
	<input type="checkbox"/> C-20020
	<input type="checkbox"/> T-20020
<input type="checkbox"/>	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen)
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02
<input type="checkbox"/>	CNAS: L10551
	FCC: CN1284
	ISED: CN0105
	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan)
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
<input type="checkbox"/>	Laboratory Accreditations
	TAF: L3261-190725
	FCC: 291082, TW3261
	ISED: TW3261

1.4. Product Information

Product Name	Mobile Computer
Model No.	EDA5S-0
Serial Number	21294B4E4A
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.0 dual mode
NFC Specification	Active, 13.56MHz
Antenna Information	Refer to section 1.5
Working Voltage	3.85Vdc
Accessories	
Adapter	Model No.: ADS-12B-06 05010E Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A Output Power: 5VDC 2.0A
Rechargeable Li-ion Battery	Model No.: BAT-EDA5S Capacitance: 3060mAh 11.78Wh Rated Voltage: 3.85V
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Frequency Range	13.56MHz
Channel Number	1
Type of modulation	ASK
Antenna Type	Loop Antenna

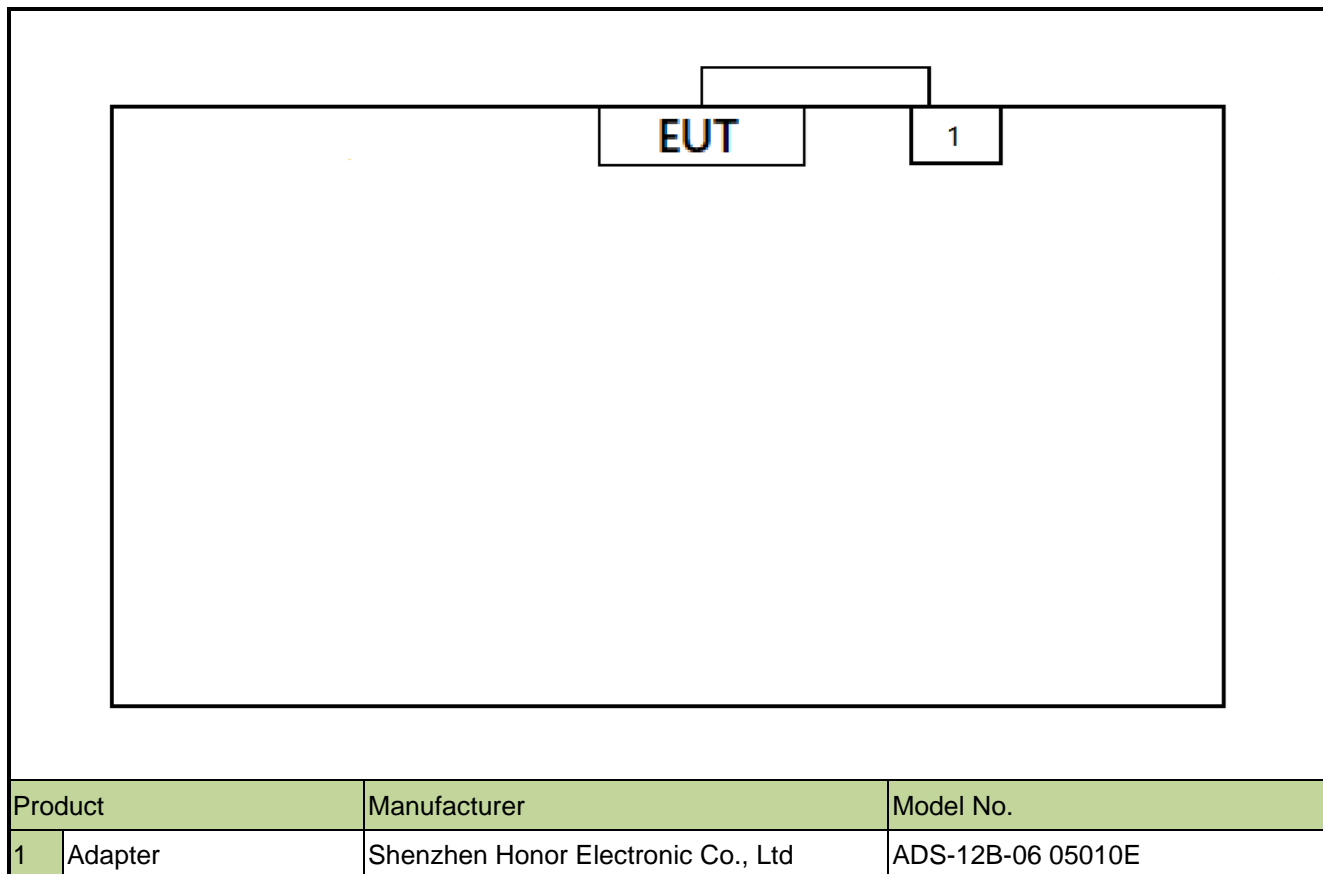
Note: For other features of this EUT, test report will be issued separately.

1.6. Test Mode

Test Mode
Mode 1: Transmit by NFC

1.7. Test Configuration and Software

The device was tested per the guidance ANSI C63.10-2013 that was used to reference the appropriate EUT setup for radiated spurious emissions and AC line conducted emission testing.



1.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

1.9. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~75 %RH

2. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the **Mobile Computer** is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

3. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2022/10/20	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2022/10/11	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2022/11/28	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2022/11/28	SIP-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06644	1 year	2022/11/8	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2022/8/5	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2022/12/23	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2022/11/9	SIP-AC2/SIP-AC4
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2022/6/8	WZ-SR2
ISN	Teseq	ISN T800	MRTSUE06005	1 year	2022/1/3	WZ-SR2
ISN	Teseq	ISN T8-Cat6	MRTSUE06006	1 year	2022/1/3	WZ-SR2
CDN	Teseq	ISN PLT-A	MRTSUE06007	1 year	2022/3/1	WZ-SR2
Absorbing Clamp	R&S	MDS-21	MRTSUE06008	1 year	2022/11/30	WZ-SR2
Passive Voltage Probe	R&S	ESH2-Z3	MRTSUE06189	1 year	2022/4/13	WZ-SR2
Triple-Loop Antenna	R&S	HM020	MRTSUE06191	3 year	2024/4/13	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	/	/	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2022/6/28	WZ-SR2
Current Probe	FCC	F-52	MRTSUE06494	1 year	2022/5/6	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2022/10/10	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2022/11/1	WZ-SR2

Software	Version	Function
EMI Software	V3	EMI Test Software

4. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 9kHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 9kHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result	Reference
15.225 (a), (b), (c)	In-Band Emission	Radiated	Pass	Section 5.2
15.225(d)	Out-Band Emission		Pass	Section 5.3
2.1049	20dB Bandwidth 99% Bandwidth		Pass	Section 5.4
15.225(e)	Frequency Stability Tolerance		Pass	Section 5.5
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass	Section 5.6

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

5.2. In-band Emission

5.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.225		
Frequency (MHz)	Distance (m)	Level (μ V/m)
13.553 ~13.567	30	15848
13.410 ~13.553, 13.567 ~13.710	30	334
13.110 ~13.410, 13.710 ~14.010	30	106
Note 1: The lower limit shall apply at the transition frequency.		
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.		
Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)		

5.2.2. Test Procedure Used

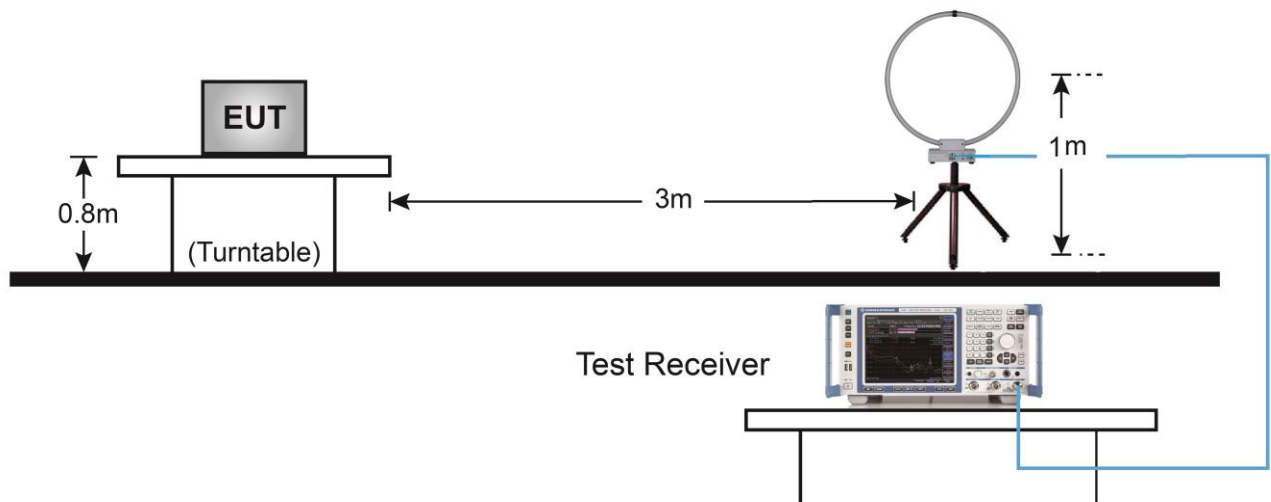
ANSI C63.10-2013 - Section 6.4.7

5.2.3. Test Setting

1. RBW = 9kHz
2. VBW = 3 * RBW
3. Detector = Peak
4. Trace mode = Max hold
5. Sweep = Auto couple
6. Allow the trace to stabilize

5.2.4. Test Setup

9kHz ~ 30MHz Test Setup:



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Out-band Emission

5.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (μV/m)
0.009 - 0.490	300	2400/F (kHz)
0.490 - 1.705	30	24000/F (kHz)
1.705 - 30	30	30
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
Above 960	3	500

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBμV/m) = 20 log E field strength (μV/m)

5.3.2. Test Procedure Used

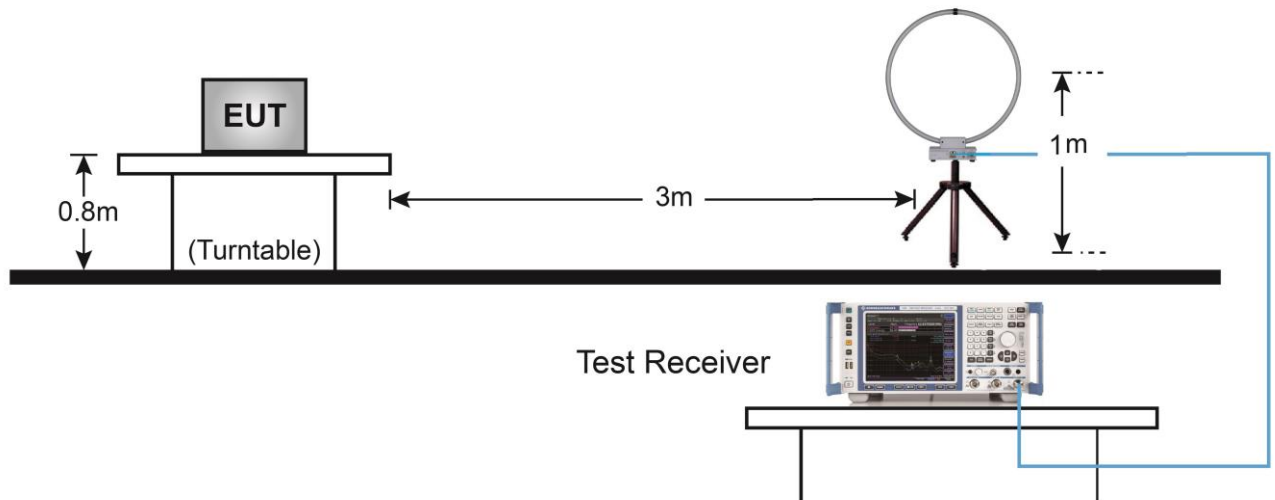
ANSI C63.10-2013 - Section 6.5.4

5.3.3. Test Setting

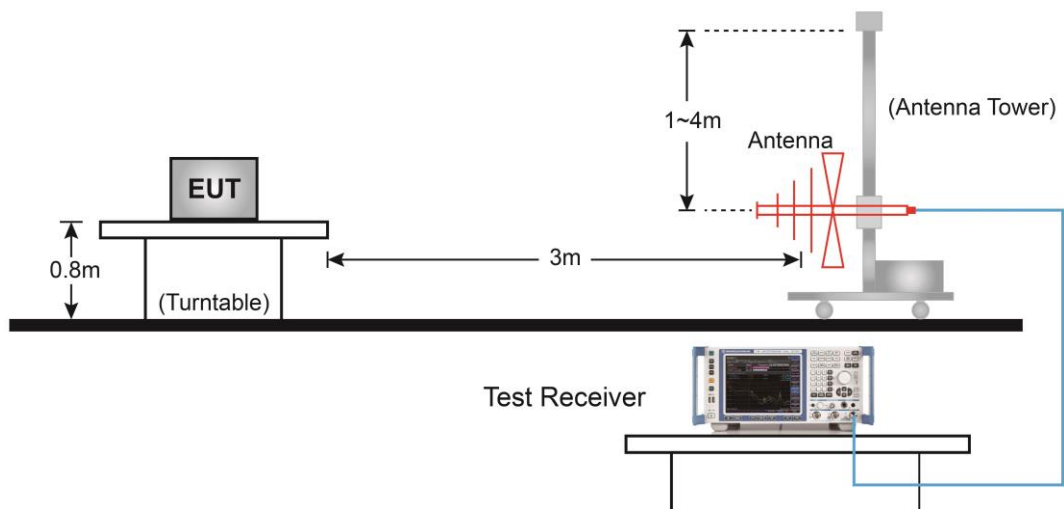
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 9kHz for emission below 30MHz and 100kHz for emission between 30MHz and 1GHz
3. VBW = 3 * RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

5.3.4. Test Setup

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Occupied Bandwidth

5.4.1. Test Limit

The occupied bandwidth is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency.

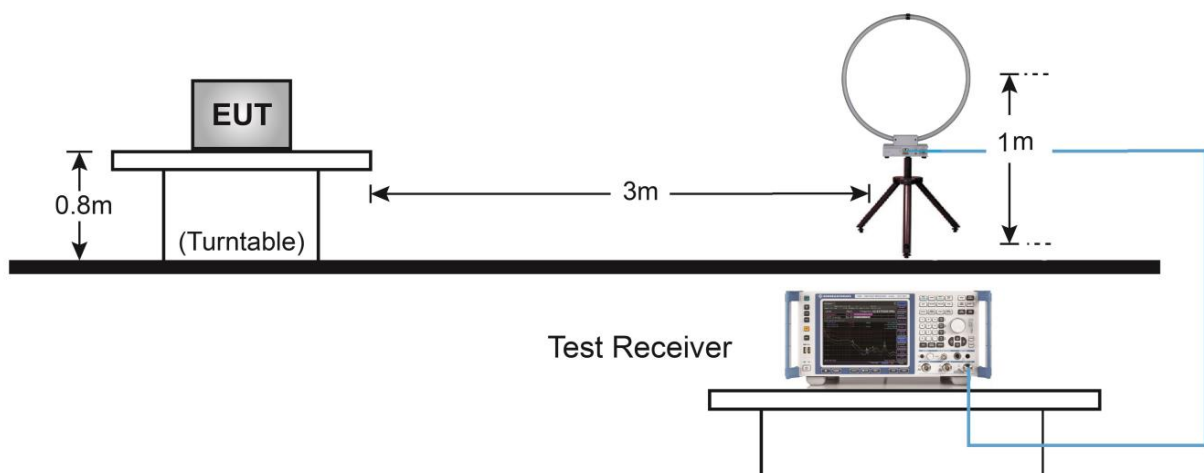
5.4.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.9.3

5.4.3. Test Setting

1. Spectrum analyzer frequency is set to the nominal EUT channel center frequency.
2. Set RBW $\geq 1\%$ to 5% of the OBW
3. VBW = Approximately three times RBW
4. Reference level set to keep signal from exceeding maximum input mixer level for linear operation
5. Detector = Peak
6. Trace mode = Max hold
7. Sweep = Auto couple
8. Allow the trace to stabilize
9. Using 99% power bandwidth function of the instrument and report the measured bandwidth

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Frequency Tolerance

5.5.1. Test Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

5.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.8

5.5.3. Test Setting

Frequency Stability Under Temperature Variations:

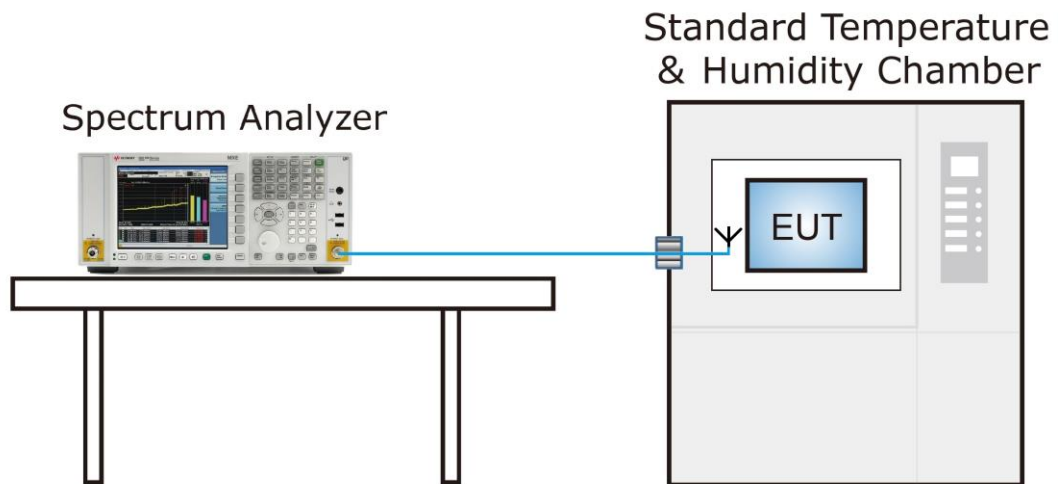
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change. For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. AC Conducted Emissions Measurement

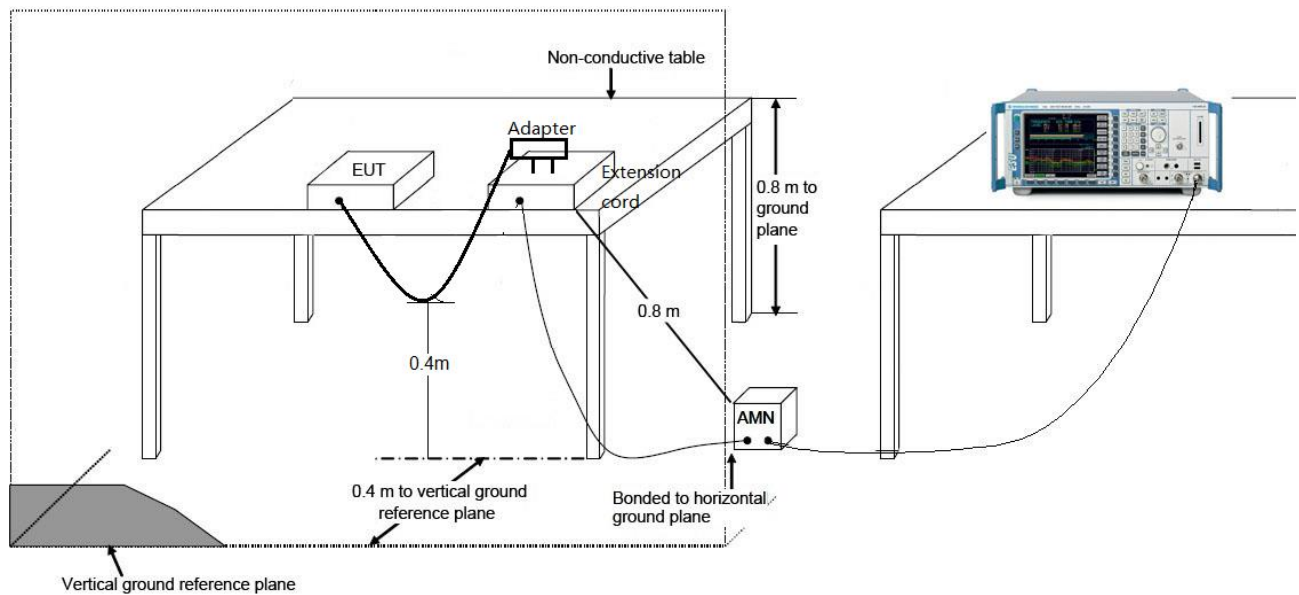
5.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

5.6.2. Test Setup



5.6.3. Test Result

Refer to Appendix A.5.

Appendix A - Test Result

A.1 In-band Emission Test Result

Test Engineer	Stephen Dong	Test Date	2021/12/29
Test Mode	Mode1	Test Site	SIP-AC2

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (@3m) (dBμV/m)	Margin [dB]
Face On					
13.35	11.13	19.85	30.98	80.51	-49.53
13.55	16.06	19.71	35.77	90.47	-54.70
13.56	25.50	19.72	45.22	123.99	-78.77
13.57	15.67	19.73	35.40	90.47	-55.07
13.77	10.17	19.88	30.05	80.51	-50.46
Face Off					
13.35	14.67	19.85	34.52	80.51	-45.99
13.55	17.67	19.71	37.38	90.47	-53.09
13.56	24.04	19.72	43.76	123.99	-80.23
13.57	17.26	19.73	36.99	90.47	-53.48
13.77	15.39	19.88	35.27	80.51	-45.24

Note 1: All measurements were performed using a loop antenna. The antenna was positioned in two orthogonal (face on and face off) and the position with the highest emission level was recorded.

Note 2: Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

Extrapolation Factor = $20 \cdot \log(30/3)^2 = 40$ dB

For example, Limit (@3m) = $20 \cdot \log(106) + 40 = 80.51$ dBμV/m

Note 3: All measurements were recorded using an EMI test receiver employing a peak detector.

A.2 Out-Band Emission Test Result

Test Engineer	Stephen Dong	Test Date	2021/12/29
Test Mode	Mode1	Test Site	SIP-AC2

Out-Band Emission Below 30MHz						
Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (@3m) (dBμV/m)	Margin (dB)	Detector
Face On						
27.12	5.97	19.96	25.93	69.54	-43.61	Peak
Face Off						
27.12	4.74	19.96	24.69	69.54	-44.85	Peak

Out-Band Emission Above 30MHz							
Polarization	Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	40.67	1.35	17.97	19.32	40.00	-20.68	Peak
H	76.56	0.93	15.23	16.16	40.00	-23.84	Peak
H	161.44	1.43	18.49	19.91	43.50	-23.59	Peak
H	445.65	1.84	22.84	24.69	46.00	-21.32	Peak
H	730.34	2.04	28.18	30.22	46.00	-15.78	Peak
H	885.54	2.14	29.96	32.11	46.00	-13.89	Peak
V	40.67	7.22	17.97	25.19	40.00	-14.81	Peak
V	74.14	2.19	15.77	17.97	40.00	-22.03	Peak
V	249.71	1.61	17.42	19.04	46.00	-26.97	Peak
V	459.23	0.69	23.04	23.73	46.00	-22.27	Peak
V	728.89	2.39	28.15	30.54	46.00	-15.46	Peak
V	872.45	1.89	29.89	31.78	46.00	-14.22	Peak

Note 1: Below 30MHz measurement was performed using a loop antenna. The antenna was positioned in two orthogonal (face on and face off) and the position with the highest emission level was recorded.

Note 2: Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2). Extrapolation Factor = $40 \cdot \log^{(30/3)} = 40$ dB

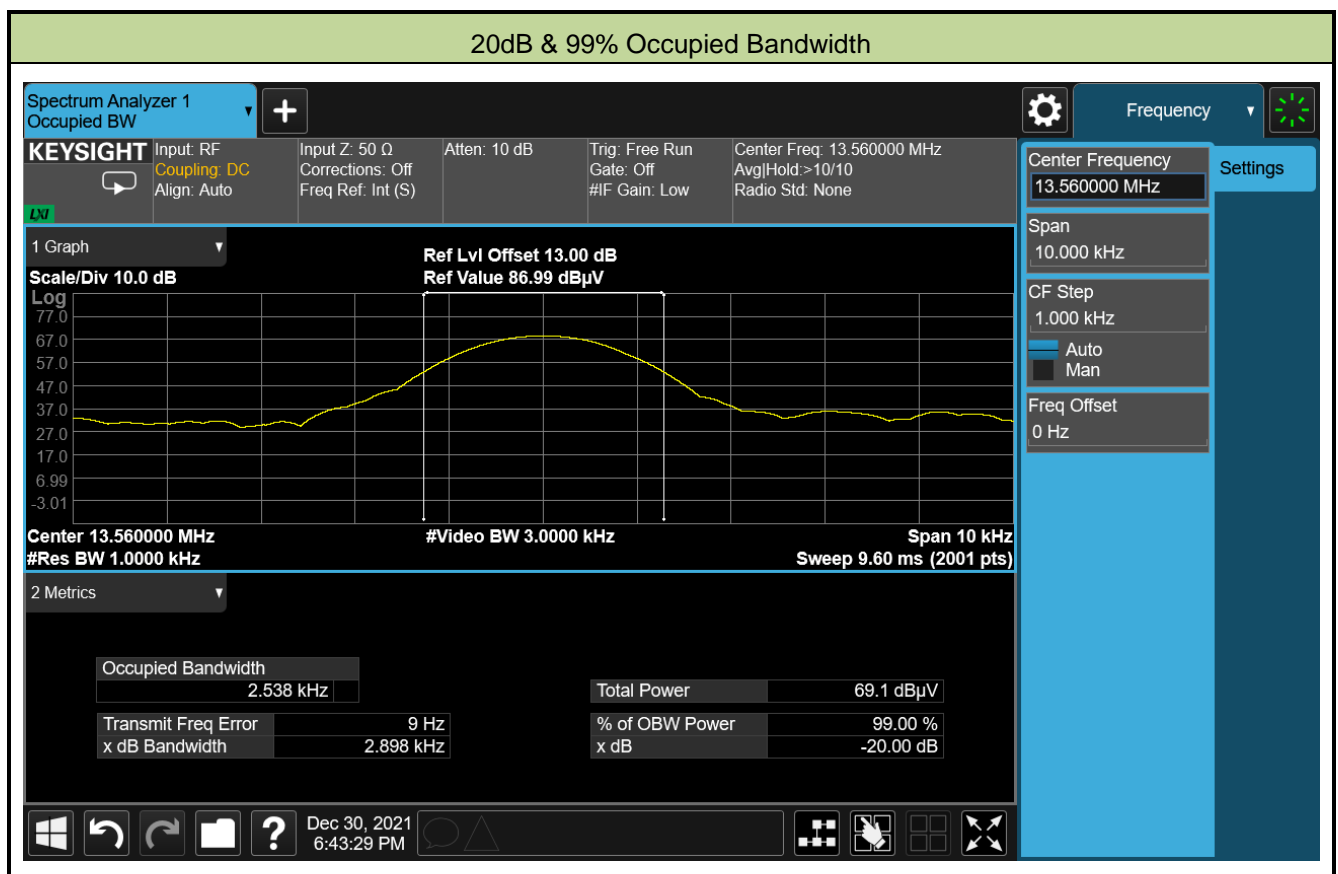
For example, Limit (@3m) = $20 \cdot \log(30) + 40 = 69.54$ dBμV/m

Note 3: All measurements were recorded using an EMI test receiver employing a peak detector.

A.3 Occupied Bandwidth Test Result

Test Engineer	Stephen Dong	Test Date	2021/12/30
Test Mode	Mode1	Test Site	SIP-AC2

Frequency (MHz)	20dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
13.56	2.898	2.538



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

A.4 Frequency Stability Tolerance Test Result

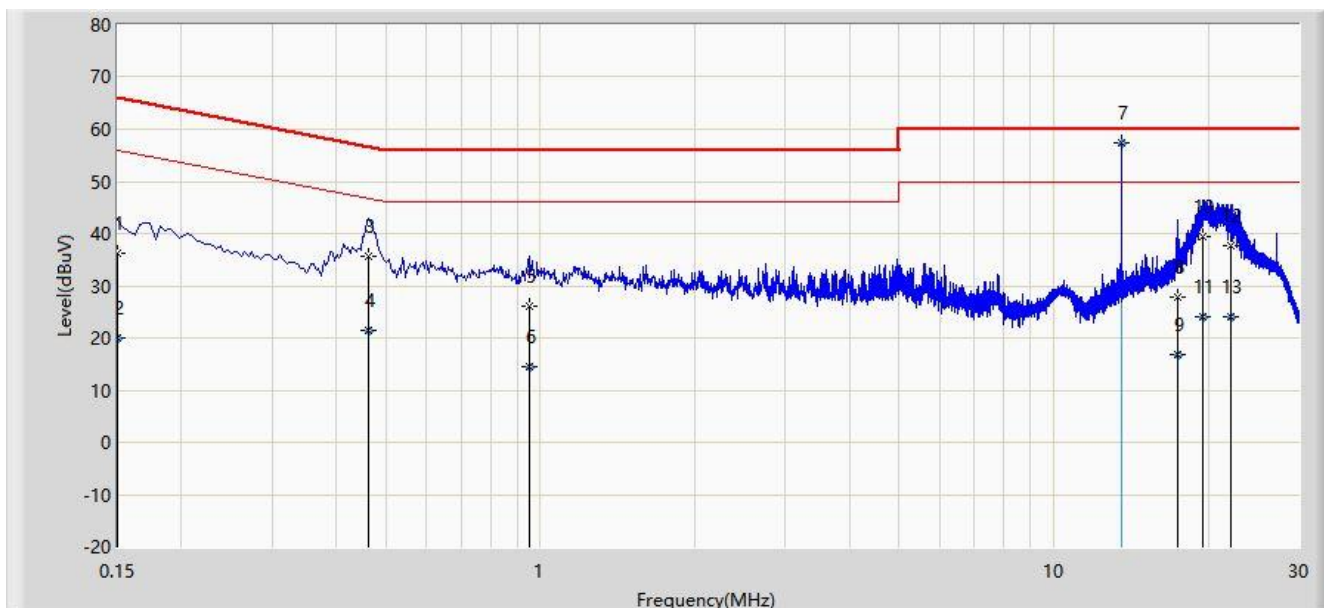
Test Engineer	Stephen Dong	Test Date	2021/12/30
Test Mode	Mode1	Test Site	SIP-AC2

Reference Voltage: 3.85Vdc					
Deviation Limit: +/- 0.01% = 1356Hz					
Voltage (%)	Temp (°C)	Frequency Tolerance (%)			
		0 minutes	2 minutes	5 minutes	10 minutes
100	-20	0.000195	0.000194	0.000193	0.000193
	-10	0.000151	0.000155	0.000157	0.000159
	0	0.000068	0.000065	0.000061	0.000060
	+10	-0.000196	-0.000190	-0.000185	-0.000181
	+20	-0.000409	-0.000404	-0.000400	-0.000395
	+30	-0.000502	-0.000502	-0.000501	-0.000501
	+40	-0.000709	-0.000708	-0.000707	-0.000706
	+50	-0.000689	-0.000699	-0.000702	-0.000706
115	+ 20	-0.000391	-0.000386	0.294604	-0.000378
85	+ 20	-0.000374	-0.000368	-0.000365	-0.000361

Note: Frequency Tolerance (ppm) = {[Measured Frequency (MHz) - Declared Frequency (MHz)] / Declared Frequency (MHz)} * 10⁶.

A.5 AC Conducted Emissions Test Result

Site: WZ-SR2	Time: 2021/12/31 - 09:49
Temperature: 20.3℃	Humidity: 26.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: NFC Working	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.150	36.232	26.331	-29.768	66.000	9.901	QP
2			0.150	19.944	10.042	-36.056	56.000	9.901	AV
3			0.462	35.666	25.749	-20.990	56.657	9.917	QP
4			0.462	21.570	11.653	-25.086	46.657	9.917	AV
5			0.950	26.202	16.255	-29.798	56.000	9.946	QP
6			0.950	14.462	4.515	-31.538	46.000	9.946	AV
7			13.558	57.248	46.293	NaN	NaN	10.955	PK
8			17.378	27.954	16.731	-32.046	60.000	11.223	QP
9			17.378	16.896	5.673	-33.104	50.000	11.223	AV
10		*	19.494	39.433	28.011	-20.567	60.000	11.422	QP
11			19.494	24.128	12.705	-25.872	50.000	11.422	AV
12			22.070	37.735	26.120	-22.265	60.000	11.615	QP
13			22.070	23.954	12.339	-26.046	50.000	11.615	AV

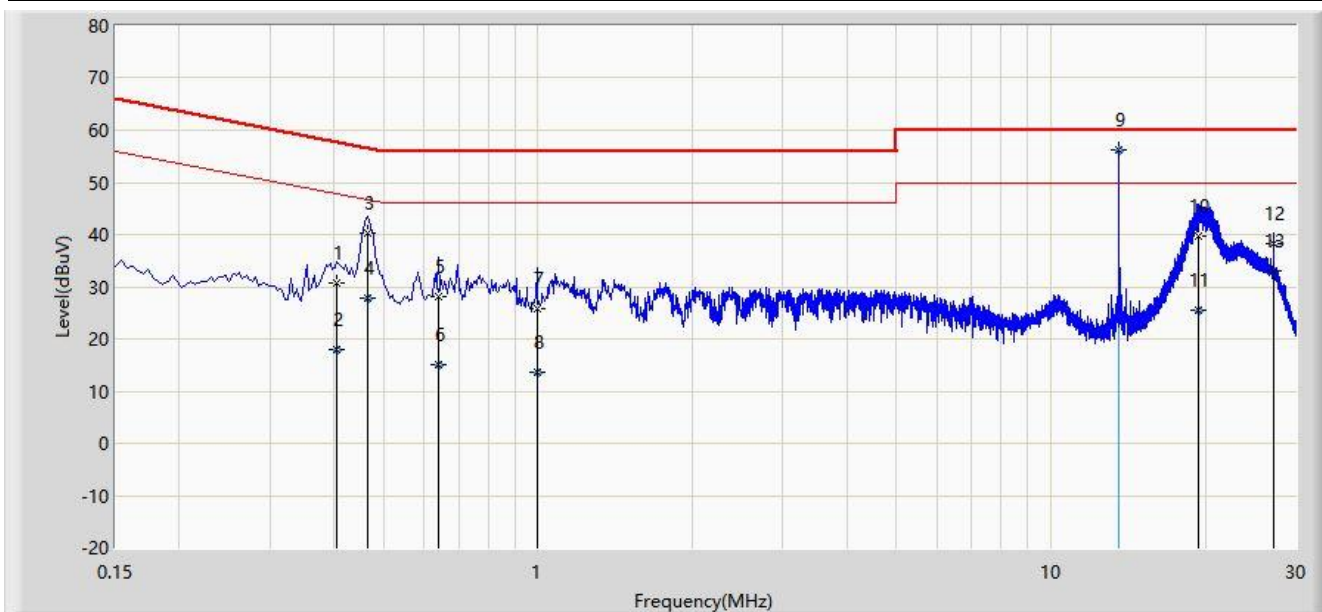
Note:

- Point 7 is NFC fundamental frequency.

2. $\text{Measure Level (dB}\mu\text{V)} = \text{Reading Level (dB}\mu\text{V)} + \text{Factor (dB)}$

$\text{Factor (dB)} = \text{Cable Loss (dB)} + \text{LISN Factor (dB)}.$

Site: WZ-SR2	Time: 2021/12/31 - 10:01
Temperature: 20.3℃	Humidity: 26.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: NFC Working	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.406	30.786	20.863	-26.943	57.730	9.923	QP
2			0.406	18.011	8.088	-29.719	47.730	9.923	AV
3		*	0.466	40.396	30.468	-16.189	56.585	9.927	QP
4			0.466	27.921	17.993	-18.664	46.585	9.927	AV
5			0.638	28.260	18.317	-27.740	56.000	9.943	QP
6			0.638	15.007	5.064	-30.993	46.000	9.943	AV
7			0.994	25.726	15.766	-30.274	56.000	9.960	QP
8			0.994	13.683	3.724	-32.317	46.000	9.960	AV
9			13.558	56.163	45.198	NaN	NaN	10.965	PK
10			19.414	39.742	28.115	-20.258	60.000	11.627	QP
11			19.414	25.530	13.903	-24.470	50.000	11.627	AV
12			27.118	38.201	26.165	-21.799	60.000	12.036	QP
13			27.118	33.096	21.061	-16.904	50.000	12.036	AV

Note:

- Point 9 is NFC fundamental frequency.
- Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Appendix B - Test Setup Photograph

Refer to “2111RSU063-UT” file.

Appendix C - EUT Photograph

Refer to "2111RSU063-UE" file.