

TEST REPORT

Applicant: LYNX INNOVATION LTD
Address: UNIT 8A 331 ROSEDALE ROAD ALBANY 0632
NORTH SHORE CITY AUCKLAND AUCKLAND,
New Zealand
Equipment Type: Touch Controller Unit
Model Name: 850-205818
Brand Name: LYNX INNOVATION
FCC ID: 2ABMA-850-205818
Test Standard: 47 CFR Part 15 Subpart C
(refer section 3.1)
Test Date : Jan. 22, 2022 - Mar. 08, 2022
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Xiong Chong

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Xia Long

Approved by: Liao Jianming

Technical Director

Jianming Liao

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Mar.03, 2022	Initial Issue
Rev. 02	Mar.08, 2022	Updated the test data on page18 and added serial number of test sample in section3.2

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	LYNX INNOVATION LTD
Address	UNIT 8A 331 ROSEDALE ROAD ALBANY 0632 NORTH SHORE CITY AUCKLAND AUCKLAND, New Zealand

2.2 Manufacturer Information

Manufacturer	Jiaxing Lynx Displays Limited
Address	BLDG. 7 #3288 ZHONGSHAN RD(W) XIUZHOU INDUSTRIAL PARK JIAXING ZHEJIANG 314000 CHINA

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Touch Controller Unit
Under Test Model Name	850-205818
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	NFC
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Type	ASK
Product Type	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Frequency Range	13.56 MHz
Receiver Categorization	3
Number of channel	1
Tested Channel	1
Antenna Type	Coil Antenna

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note}
2	Emissions Bandwidth	15.215	ANNEX A.1	Pass
3	Field Strength of Fundamental Emissions	15.225(a)	ANNEX A.2	Pass
4	Radiated Emissions	15.225(d) 15.209	ANNEX A.3	Pass
5	Frequency Stability	15.225(e)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note 2: The serial number of test sample is 889787832223767.

3.3 Test Uncertainty

The following measurement 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.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	4.28 dB
Radiated emissions (9 kHz-30 MHz)	3.22 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.80 dB
Radiated emissions (30 MHz-1 GHz)-3m	4.76 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.88 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

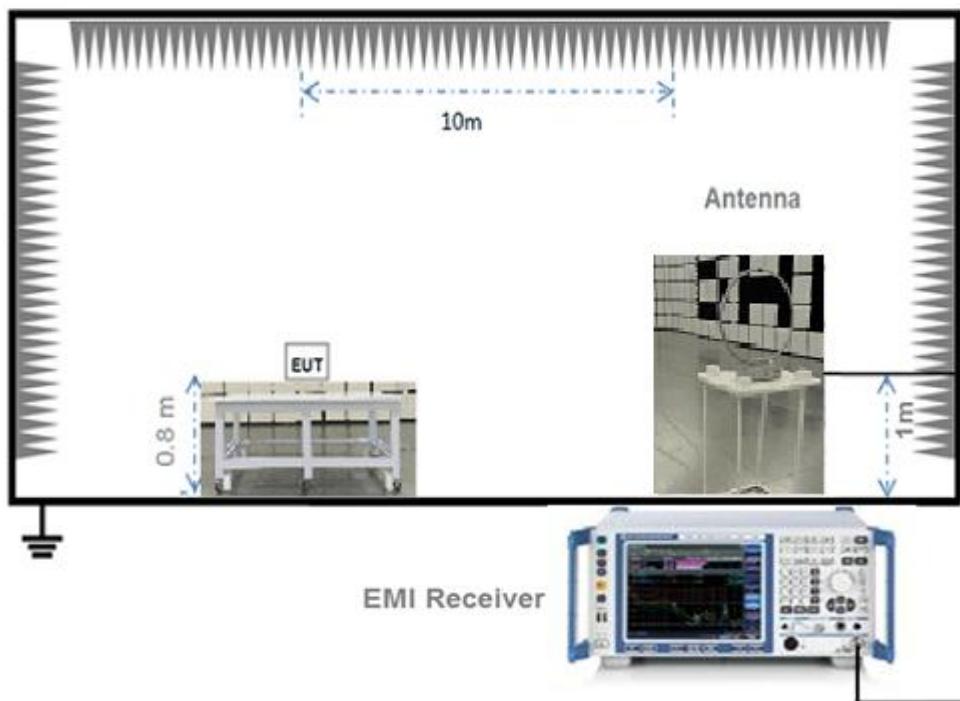
Relative Humidity	30% to 60%		
Atmospheric Pressure	100 kPa to 102 kPa		
Temperature	NT (Normal Temperature)		+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)		5.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.10	2022.10.09
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2021.06.04	2022.06.03
Temperature Chamber	AHK	SP20	1412	2021.11.30	2022.11.29
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Anechoic Chamber	EMC TECHNOLOGY LTD	20.1m*11.6m*7.35m	N/A	2021.08.15	2024.08.14
Anechoic Chamber	CHANGNING	9m*6m*6m	N/A	2020.03.16	2023.03.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	N/A	2019.08.16	2022.08.15
Test Software	BALUN	BL410_E	V19.918	--	--

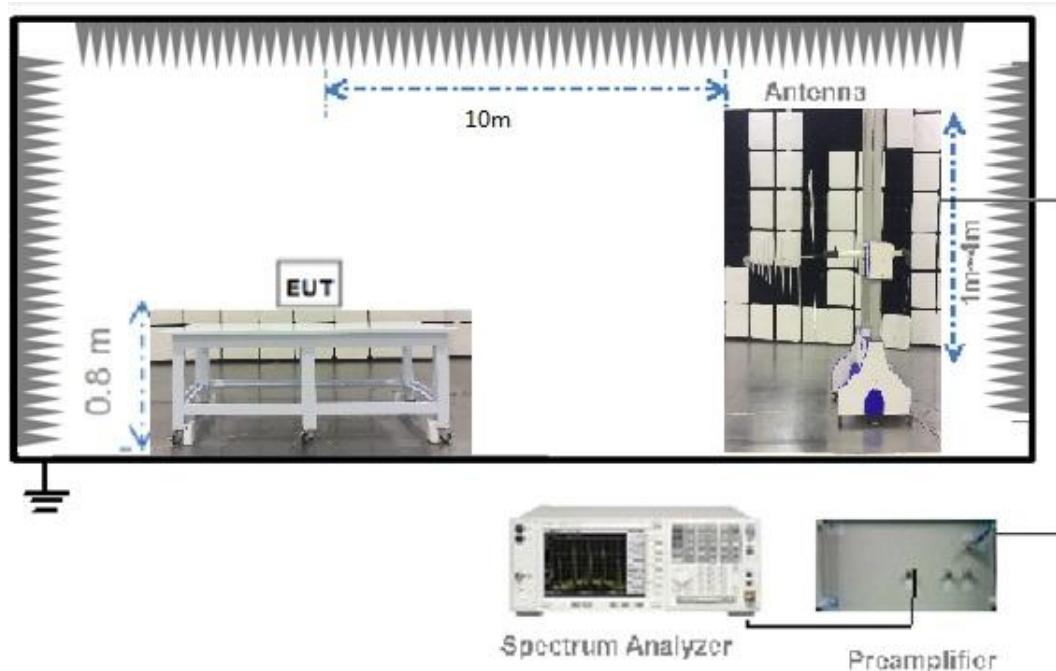
4.3 Description of Test Setup

4.3.1 For Radiated Test (Below 30 MHz)



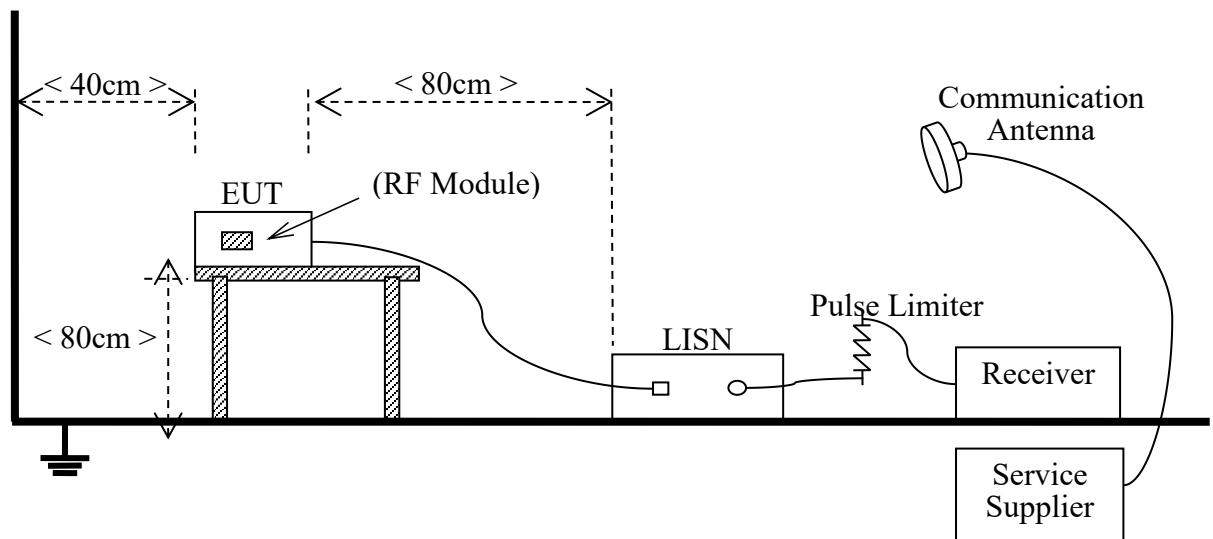
(Diagram 1)

4.3.2 For Radiated Test (30 MHz-1 GHz)



(Diagram 2)

4.3.3 For AC Power Supply Port Test

**(Diagram 3)**

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203

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, or § 15.221. 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.

required impedance for each antenna type.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer EUT internal photos.

5.2 Emission Bandwidth

5.2.1 Definition

15.215(c);

Intentional radiators operating under the alternative provisions to the general emission limits must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 2 to 5 times the OBW

RBW = 1% to 5% the OBW

VBW \geq 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 1.5 to 5 times the OBW

RBW = 1% to 5% OBW

VBW \geq 3RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.2.4 Test Result

Please refer to ANNEX A.1

5.3 Field Strength of Fundamental Emissions and Radiated Emissions

5.3.1 Limit

FCC §15.225(a), (b), (c);

According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) = $20\log(X) + 40\log(30/3) = 20\log(15848) + 40\log(30/3) = 124\text{dBuV}$

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency range (MHz)	Field Strength@30m		Field Strength@10m	Field Strength@3m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
Below 13.110	30	29.5	48.58	69.5
13.110 ~ 13.410	106	40.5	59.58	80.5
13.410 ~ 13.553	334	50.5	69.58	90.5
13.553 ~13.567	15848	84	103.08	124
13.567 ~ 13.710	334	50.5	69.58	90.5
13.710 ~14.010	106	40.5	59.58	80.5
Above 14.010	30	29.5	48.58	69.5

NOTE:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20\log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.

FCC §15.225(d)

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)
0.009 - 0.490	$2400/F(\text{kHz})$
0.490 - 1.705	$24000/F(\text{kHz})$
1.705 - 30.0	30
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dB_{UV}/m@3m (AV) and 74dB_{UV}/m@3m (PK).

5.3.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2

NOTE:

1. Results (dB_{UV}/m) = Reading (dB_{UV}/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

5.4 Frequency Tolerance

5.4.1 Limit

FCC §15.225(e)

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.

5.4.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Conducted Emission

5.5.1 Limit

FCC §15.207;

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.5.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.5.4 Test Result

Please refer to ANNEX A.5.

NOTE:

1. Results (dB μ V) = Reading (dB μ V) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

ANNEX A TEST RESULT

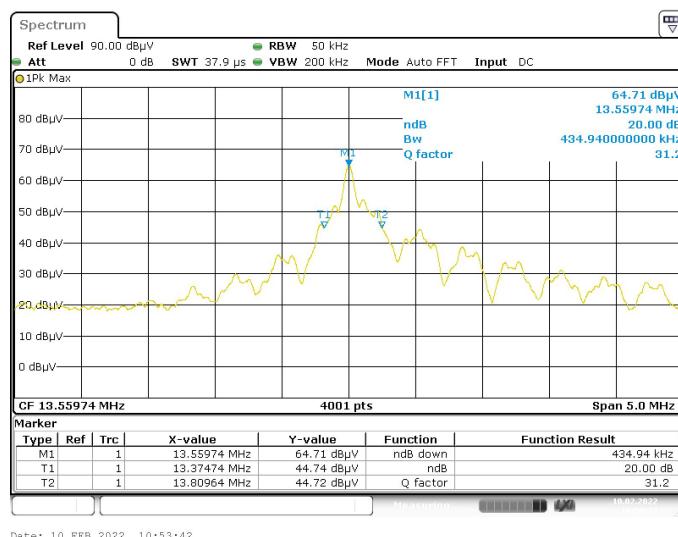
A.1 Emission Bandwidth

Test Data

Frequency (MHz)	Emission Bandwidth(20dB down) (kHz)	Occupied Bandwidth(99%) (kHz)
13.559	434.940	1155.961

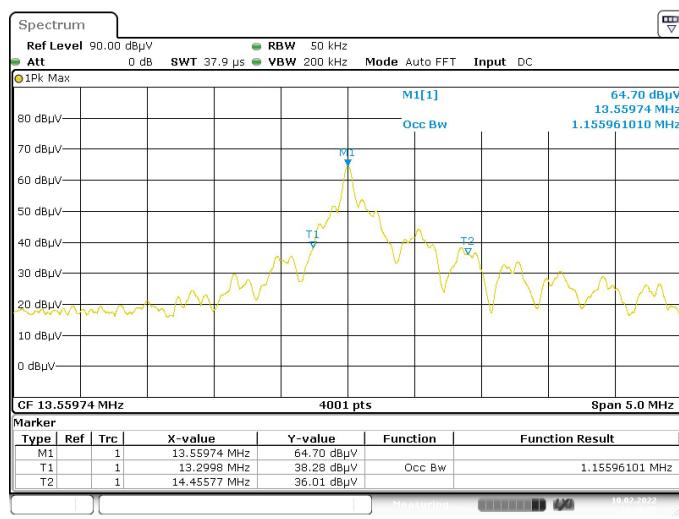
Test plots

Emission Bandwidth



Date: 10.FEB.2022 10:53:42

99% Occupied Bandwidth



Date: 10.FEB.2022 10:48:05

A.2 Field Strength of Fundamental Emissions

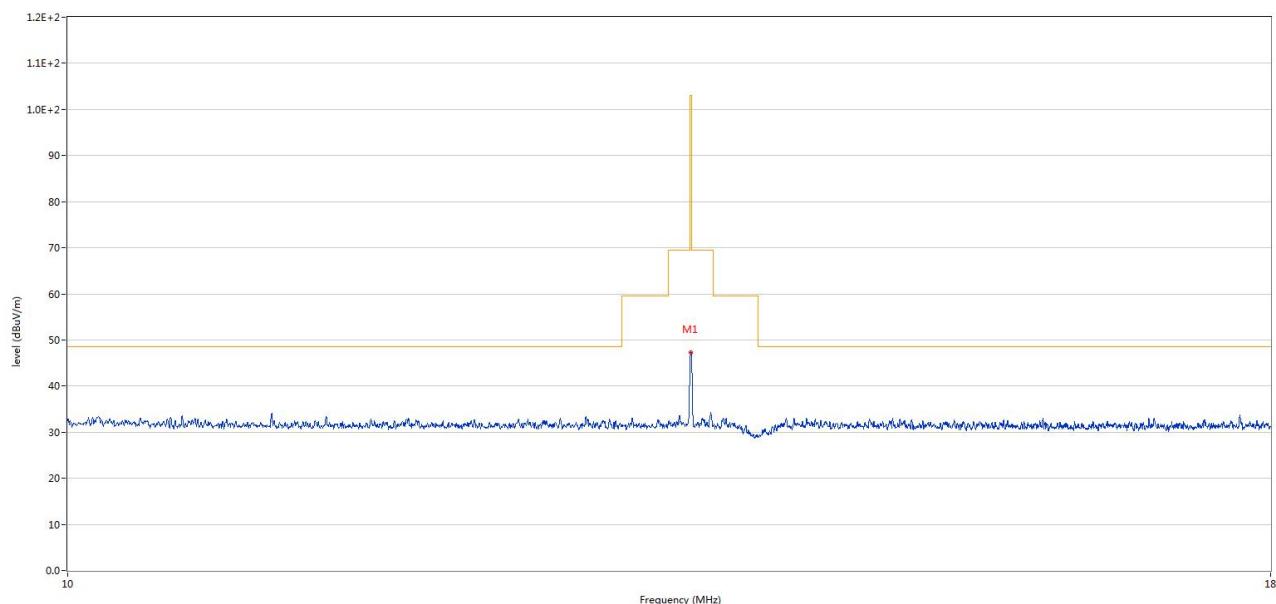
Note : Field Strength of Fundamental Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

Test Data

Frequency (MHz)	Detector	Field Strength (dBuV/m)	Limit @10m (dBuV/m)	EUT	Margin (dB)
13.560	PEAK	47.5	103.0	Y axis	63.28

Test Plot

Test Antenna-LOOP, EUT Y axis



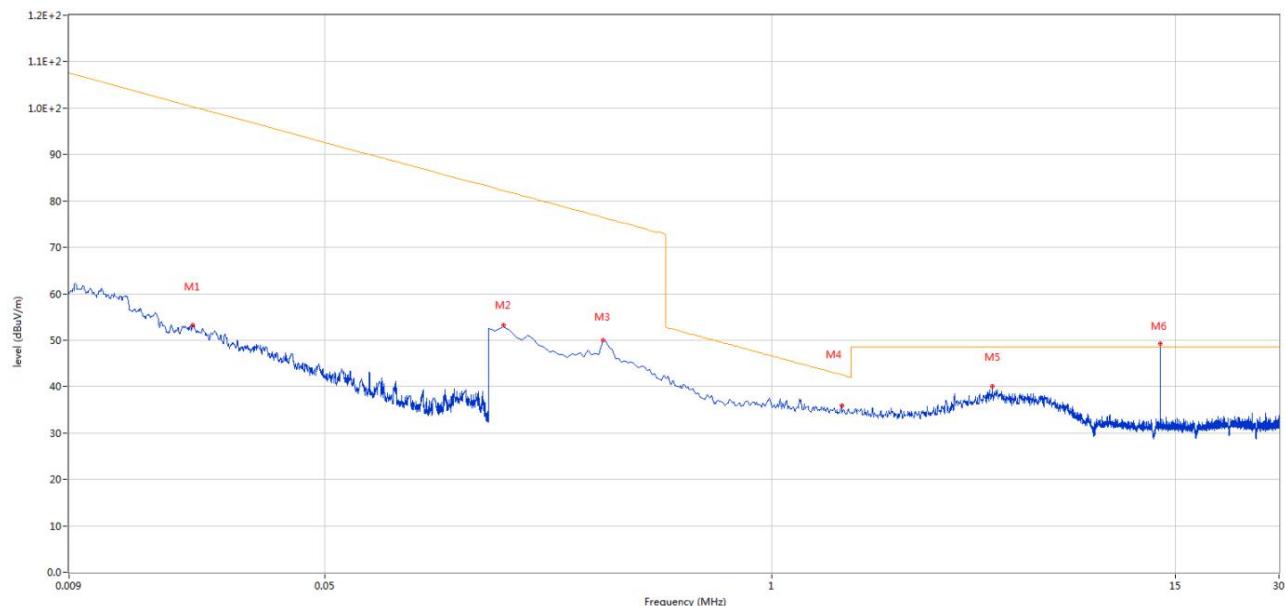
A.3 Radiated Emissions

Note 1: This frequency which near 13.560 MHz with circle should be ignored because they are NFC carrier frequency.

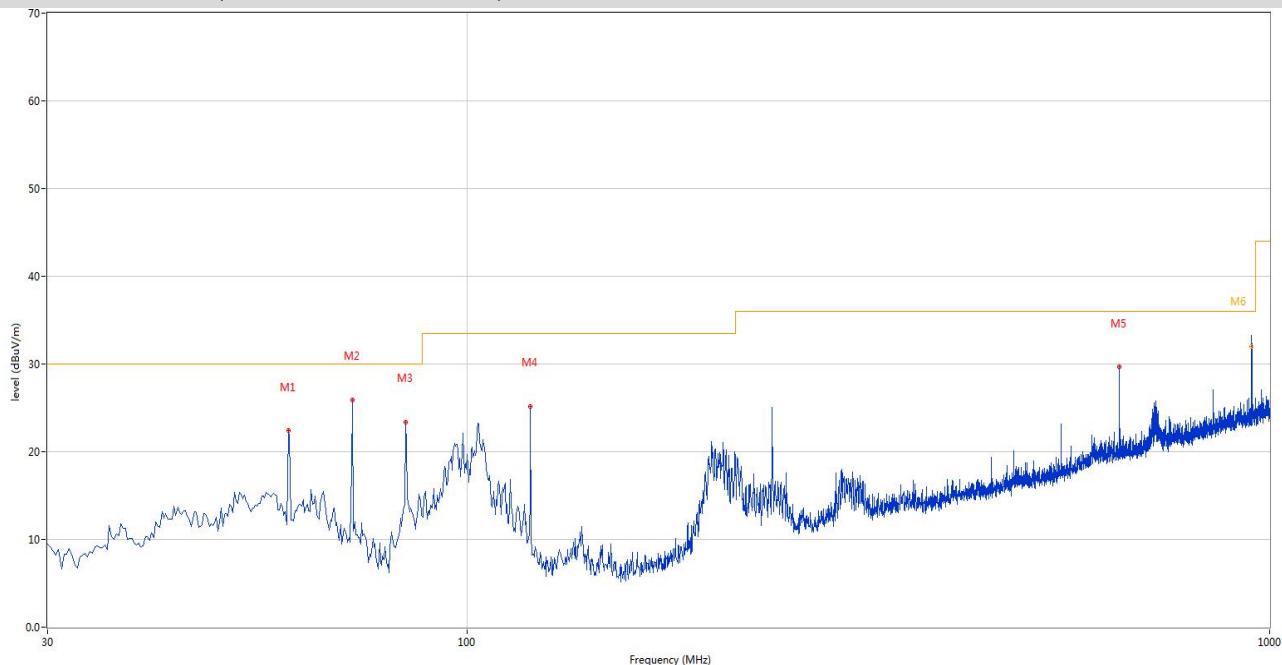
Note 2: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

The Data and Plots (9 kHz ~ 30 MHz)(at 10m chamber)

Below 30 MHz, Test Antenna LOOP, EUT Y axis

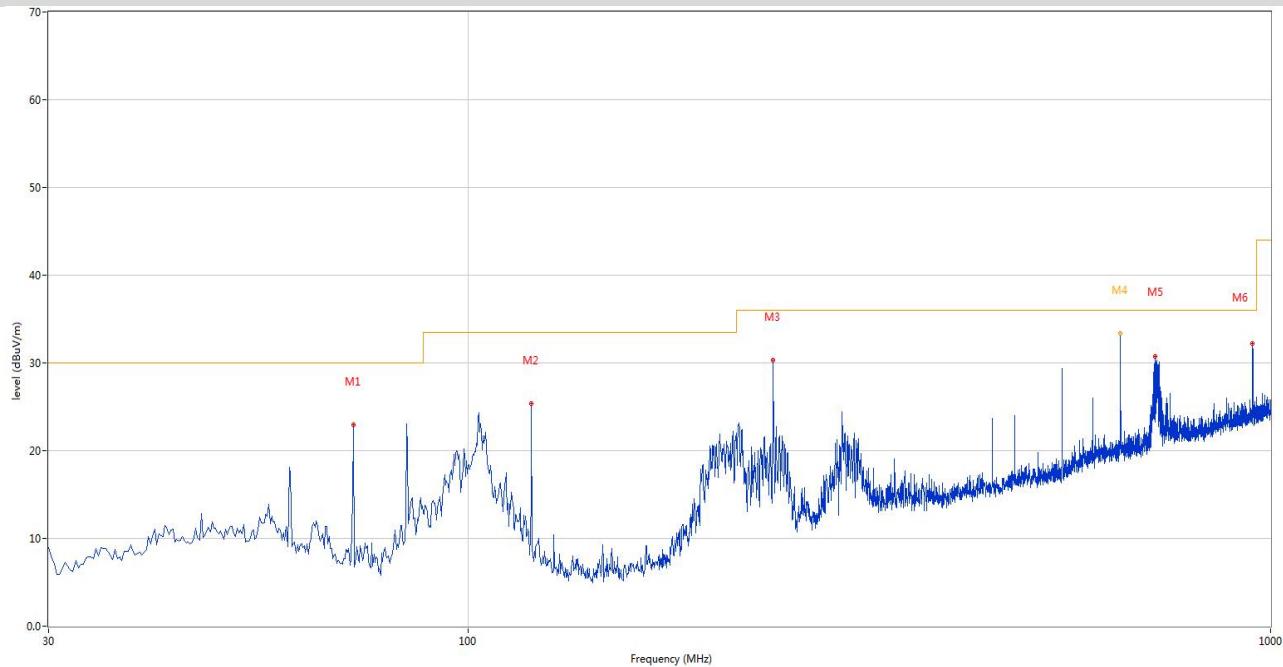


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.021	53.22	20.21	100.3	-47.08	Peak	150.00	100	Vertical	Pass
2	0.165	52.80	20.10	82.2	-29.40	Peak	0.00	100	Vertical	Pass
3	0.322	49.95	20.15	76.4	-26.45	Peak	356.00	100	Vertical	Pass
4	1.598	35.89	20.48	42.5	-6.61	Peak	263.00	100	Vertical	Pass
5	4.239	41.04	20.73	48.5	-7.46	Peak	175.00	100	Vertical	Pass
6	13.560	49.25	20.86	48.5	0.75	Peak	4.00	100	Vertical	N/A

Test Data and Plots (30 MHz ~ 10th Harmonic)**30 MHz to 1 GHz, Test Antenna Vertical, EUT Y axis**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	59.820	22.37	-27.81	30.0	-7.63	Peak	75.00	100	Vertical	Pass
2	71.942	25.93	-31.07	30.0	-4.07	Peak	48.00	200	Vertical	Pass
3	83.822	23.39	-31.45	30.0	-6.61	Peak	99.00	200	Vertical	Pass
4	119.945	25.16	-29.85	33.5	-8.34	Peak	55.00	100	Vertical	Pass
5	649.918	29.63	-16.97	36.0	-6.37	Peak	186.00	100	Vertical	Pass
6	950.001	33.47	-12.02	36.0	-2.53	Peak	275.00	192	Vertical	N/A
6*	950.001	32.04	-12.02	36.0	-3.96	QP	275.00	192	Vertical	Pass

30 MHz to 1 GHz, Test ANT Horizontal, EUT Y axis



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	71.942	22.93	-31.07	30.0	-7.07	Peak	211.00	200	Horizontal	Pass
2	119.945	25.36	-29.85	33.5	-8.14	Peak	211.00	200	Horizontal	Pass
3	239.953	30.27	-26.62	36.0	-5.73	Peak	256.00	200	Horizontal	Pass
4	650.001	34.35	-16.97	36.0	-1.65	Peak	94.00	135	Horizontal	N/A
4*	650.001	33.39	-16.97	36.0	-2.61	QP	94.00	135	Horizontal	Pass
5	717.801	30.74	-15.86	36.0	-5.26	Peak	204.00	100	Horizontal	Pass
6	949.815	32.19	-12.02	36.0	-3.81	Peak	240.00	100	Horizontal	Pass

A.4 Frequency Stability

Note 1: Because the 85%(4.25V) and 115% (5.75V) of the rated supply voltage value exceeds the cut-off voltage upper(5.25V) and lower(4.75V) limit of the manufacturer, the cut-off voltage of EUT is test here.

Note 2: The operating temperature range of the EUT is 10°C to 40°C.

OPERATING FREQUENCY:	13560000 Hz
REFERENCE VOLTAGE:	5 V
DEVIATION LIMIT:	±0.01%

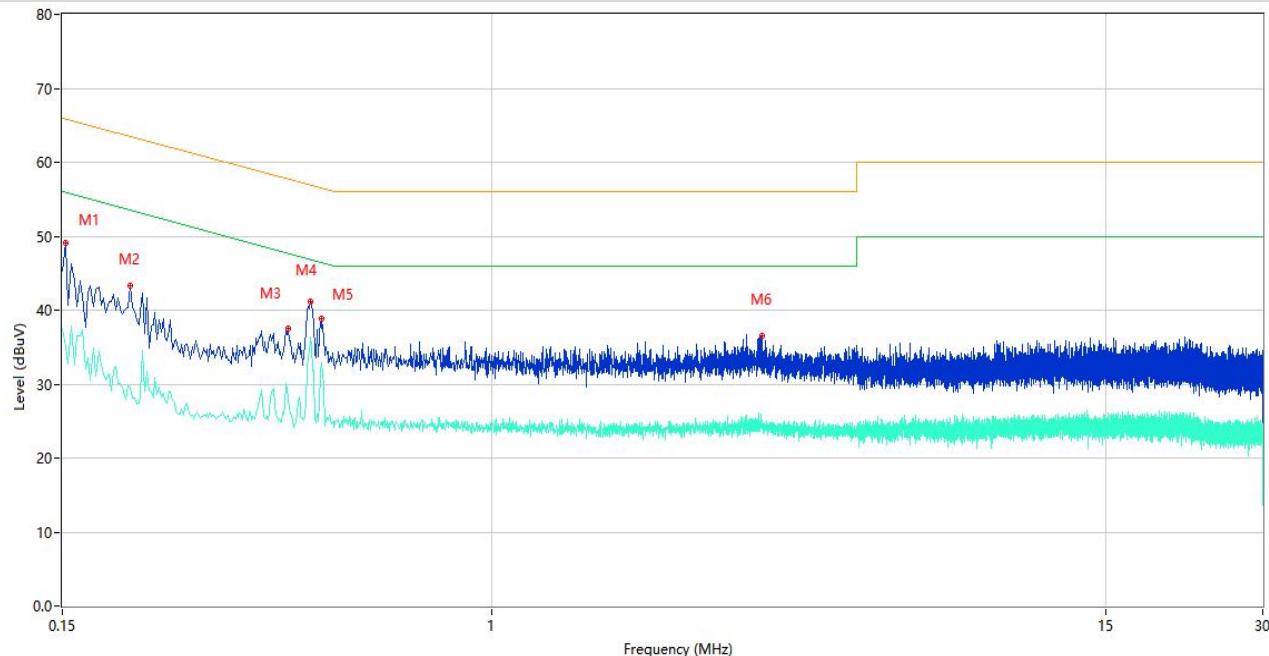
VOLTAGE (%)	Test Conditions		Frequency(Hz)	Deviation(%)	Verdict
	Power (VDC)	Temperature (°C)			
100	5	+20°C(Ref)	13.559740	0.001917	Pass
100		-20	13.560007	0.000048	
100		-10	13.559117	0.006510	
100		0	13.560960	0.007076	
100		+10	13.560732	0.005398	
100		+20	13.559922	0.000578	
100		+25	13.559098	0.006652	
100		+30	13.560099	0.000732	
100		+40	13.559784	0.001592	
100		+50	13.559057	0.006952	
MIN(Battery End Point, 85)	4.75	+20	13.560679	0.005007	
MAX(Battery End Point, 115)	5.25	+20	13.558727	0.009391	

A.5 Conducted Emissions

Note 1: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

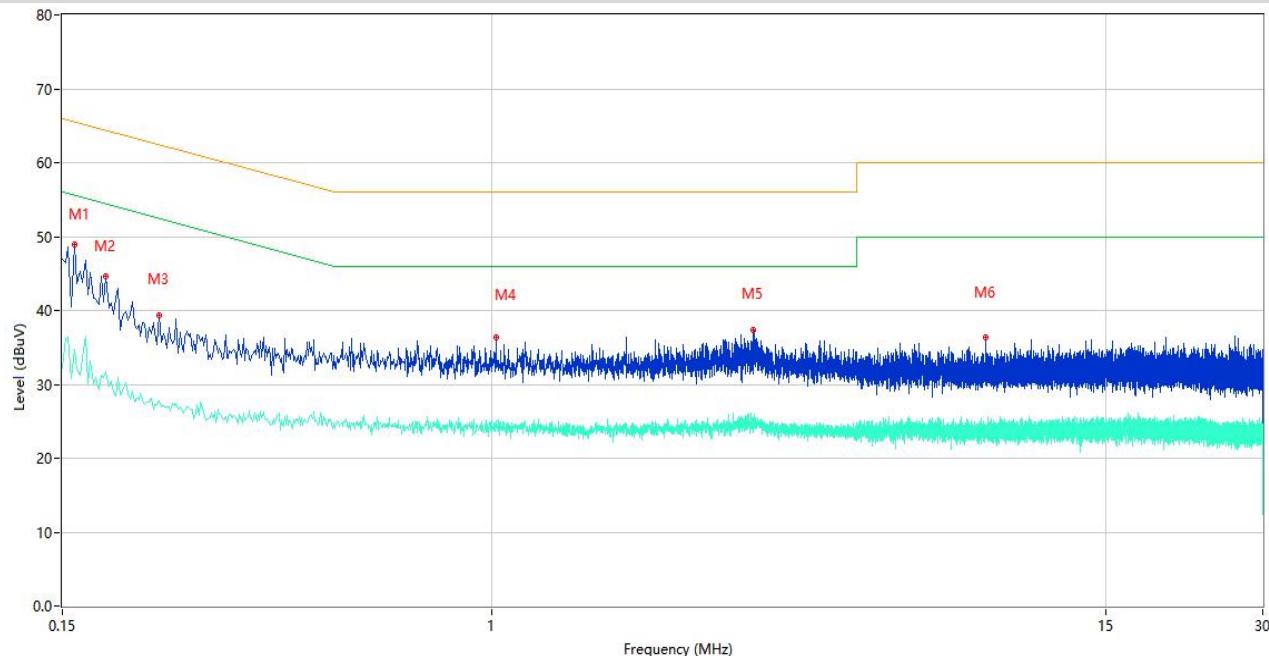
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	49.03	10.99	65.89	-16.86	Peak	L	Pass
1**	0.152	35.02	10.99	55.89	-20.87	AV	L	Pass
2	0.202	43.24	10.96	63.53	-20.29	Peak	L	Pass
2**	0.202	29.64	10.96	53.53	-23.89	AV	L	Pass
3	0.406	37.49	10.90	57.73	-20.24	Peak	L	Pass
3**	0.406	28.11	10.90	47.73	-19.62	AV	L	Pass
4	0.448	41.21	10.91	56.91	-15.70	Peak	L	Pass
4**	0.448	36.30	10.91	46.91	-10.61	AV	L	Pass
5	0.472	38.80	10.92	56.48	-17.68	Peak	L	Pass
5**	0.472	32.63	10.92	46.48	-13.85	AV	L	Pass
6	3.290	36.51	10.71	56.00	-19.49	Peak	L	Pass
6**	3.290	25.14	10.71	46.00	-20.86	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	40.50	10.99	65.67	-25.17	Peak	N	Pass
1**	0.156	30.70	10.99	55.67	-24.97	AV	N	Pass
2	0.182	44.64	10.97	64.39	-19.75	Peak	N	Pass
2**	0.182	31.78	10.97	54.39	-22.61	AV	N	Pass
3	0.230	39.31	10.93	62.45	-23.14	Peak	N	Pass
3**	0.230	27.78	10.93	52.45	-24.67	AV	N	Pass
4	1.016	36.43	10.70	56.00	-19.57	Peak	N	Pass
4**	1.016	25.08	10.70	46.00	-20.92	AV	N	Pass
5	3.158	37.28	10.70	56.00	-18.72	Peak	N	Pass
5**	3.158	25.26	10.70	46.00	-20.74	AV	N	Pass
6	8.818	36.31	10.64	60.00	-23.69	Peak	N	Pass
6**	8.818	24.30	10.64	50.00	-25.70	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-EC2210606-AE.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-EC2210606--AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-EC2210606--AI.PDF".

--END OF REPORT--

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