

TEST REPORT

Applicant: INFINIX MOBILITY LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL
CENTRE 19-25 SHAN MEI STREET FOTAN NT
HONGKONG
Equipment Type: Mobile Phone
Model Name: X6852
Brand Name: Infinix
FCC ID: 2AIZN-X6852
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jan. 03, 2024
Test Date: Jan. 11, 2024 - Jan. 24, 2024
Date of Issue: Feb. 28, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi**Checked by:** Zhenxiang Liu**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 28, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	X6852
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

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BL-490X
	Serial No.	N/A
	Capacity	Rated: 4900mAh/18.96Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limit Charge Voltage	4.45 V
Ancillary Equipment 2	Adapter	
	Brand Name	N/A
	Model No.	U330XSB
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 1.5A
	Rated Output	5.0V= 3.0A, 15.0W or 5.0- 10.0V= 3.3A or 11.0V= 3.0A, 33.0W MAX

Ancillary Equipment 3	USB Cable	
	Length (Approx.)	1.0m
Ancillary Equipment 4	Headset	
	Length (Approx.)	1.2m

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/17/66 TDD LTE Band 38/41/42 5G Network SA: NR n5/n7/12/n38/n41/n66/n77/n78 NSA(EN-DC): DC_2A_n7A, DC_2A_n66A, DC_2A_n78A, DC_4A_n41A, DC_4A_n78A, DC_5A_n7A, DC_5A_n38A, DC_5A_n41A, DC_5A_n66A, DC_5A_n77A, DC_5A_n78A, DC_7A_n7A, DC_7A_n66A, DC_7A_n77A, DC_7A_n78A, DC_38A_n78A, DC_41A_n41A, DC_41A_n77A, DC_41A_n78A, DC_66A_n7A, DC_66A_n38A, DC_66A_n41A, DC_66A_n66A, DC_66A_n77A, DC_66A_n78A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, NFC, FM receiver
Classification of equipment	Class B
The highest internal frequency of EUT	5850 MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Remark
1	Radiated Emission	15.109	Pass	--
2	Conducted Emission, AC Ports	15.107	Pass	--

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)	3.2 dB
Radiated emissions (30 MHz-1 GHz)-966#2	4.8 dB
Radiated emissions (1 GHz-18 GHz)-966#2	4.9 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due	☑
					2023.12.27	
					Cal. Due	
					2024.12.04	
Laptop	Lenovo	N/A	N/A	N/A	N/A	☑
Data connector	N/A	N/A	N/A	N/A	N/A	☑
USB disk	Sandisk	N/A	N/A	N/A	N/A	☑
Type-C Headset	OPPO	N/A	N/A	N/A	1.12M	☑

4.2 Test Configurations

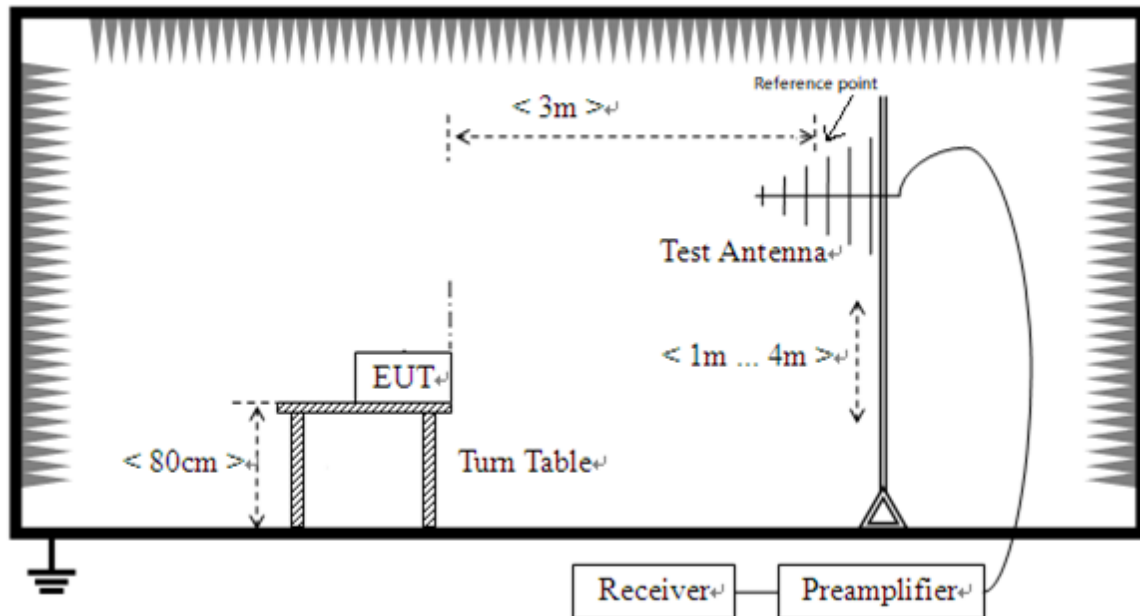
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery
Mode 2	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery
Mode 3	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT +Adapter + USB Cable + Battery
Mode 4	<u>The FDD LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT +Adapter + USB Cable + Battery
Mode 5	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 6	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 7	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 8	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop
Mode 9	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk
Mode 10	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery

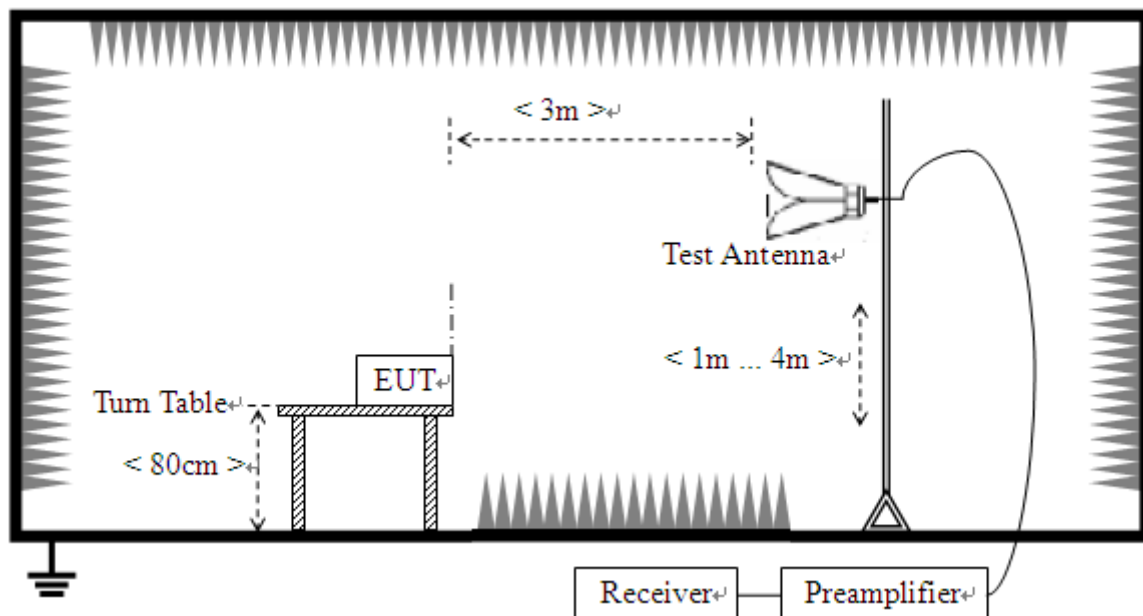
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 10	5, 8
Conducted Emission, AC Ports	Mode 1~Mode 8	5, 8
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

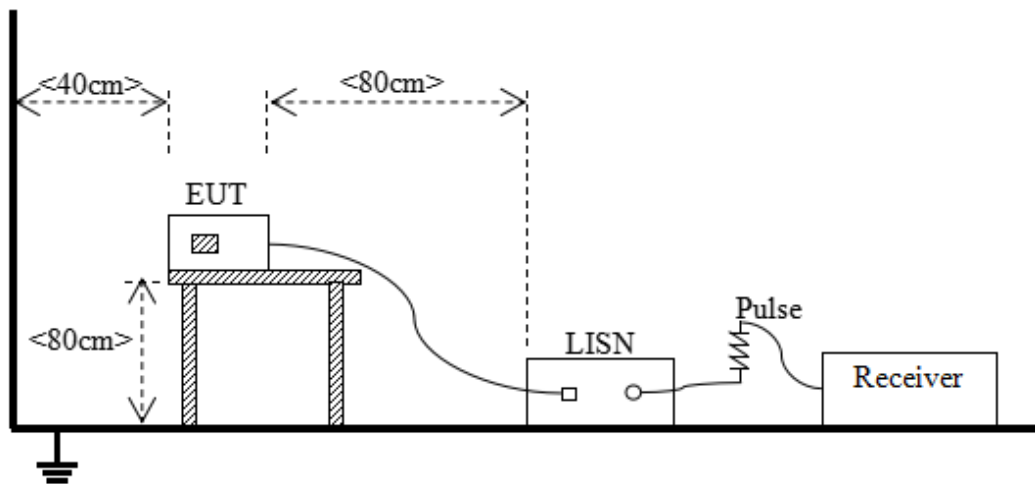
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted Emissions, AC Ports

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class A (at 3 m)
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) The limits using ANSI C63.4.
- 4) For 30 MHz to 1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)
1 - F_M	500	54	74	60	80

Note 1: The highest measurement frequency, F_M , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m L_{3m} is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \times \log(d_{10m}/d_{3m})$$

Where:

L_{3m} is Average Class A limit at 3m;

L_{10m} is Average Class A limit at 10m;

d_{10m} is Measurement distance in 10m;

d_{3m} is Measurement distance in 3m.

For this case: $L_{3m} = 49.5 + 20 \times \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ or 40 GHz, whichever is lower.
Note: F_X is Highest frequency generated or used in the device or on which the device operates or tunes.	

5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

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

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. 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.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak for $f < 1 \text{ GHz}$, peak & RMS Average for $f \geq 1 \text{ GHz}$

Trace = max hold

5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V/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. Margin = Limit - Results

5.1.2 Conducted Emission, AC Ports

5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 2) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are 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.

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.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW $\geq$ RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

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. Margin = Limit - Results

ANNEX A TEST RESULTS

A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

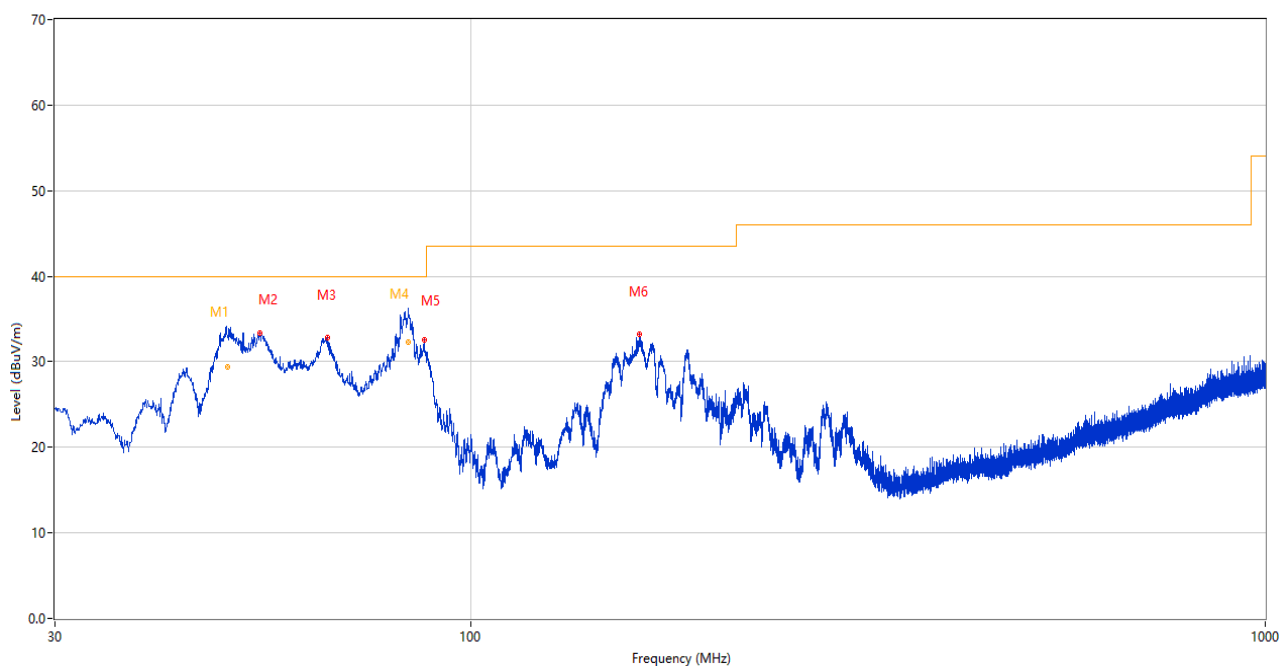
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.

Sample No.	S07	Temperature	22.4℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.01.11

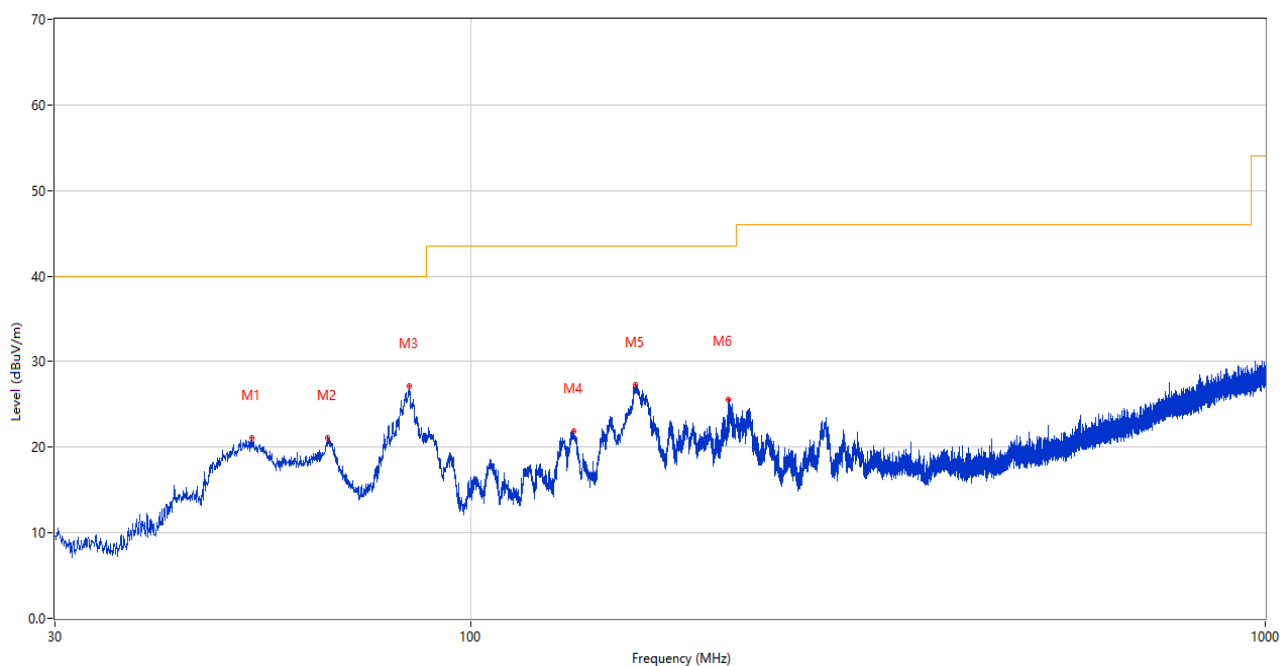
Test Mode 5

1) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.444	31.49	-25.48	40.0	8.51	Peak	132.00	116	Vertical	N/A
1*	49.444	29.43	-25.48	40.0	10.57	QP	132.00	116	Vertical	Pass
2	54.395	33.33	-25.58	40.0	6.67	Peak	20.00	100	Vertical	Pass
3	66.084	32.82	-27.80	40.0	7.18	Peak	24.00	100	Vertical	Pass
4	83.472	34.83	-30.32	40.0	5.17	Peak	37.00	101	Vertical	N/A
4*	83.472	32.26	-30.32	40.0	7.74	QP	37.00	101	Vertical	Pass
5	87.473	32.52	-29.28	40.0	7.48	Peak	50.00	100	Vertical	Pass
6	162.987	33.19	-29.48	43.5	10.31	Peak	5.00	100	Vertical	Pass

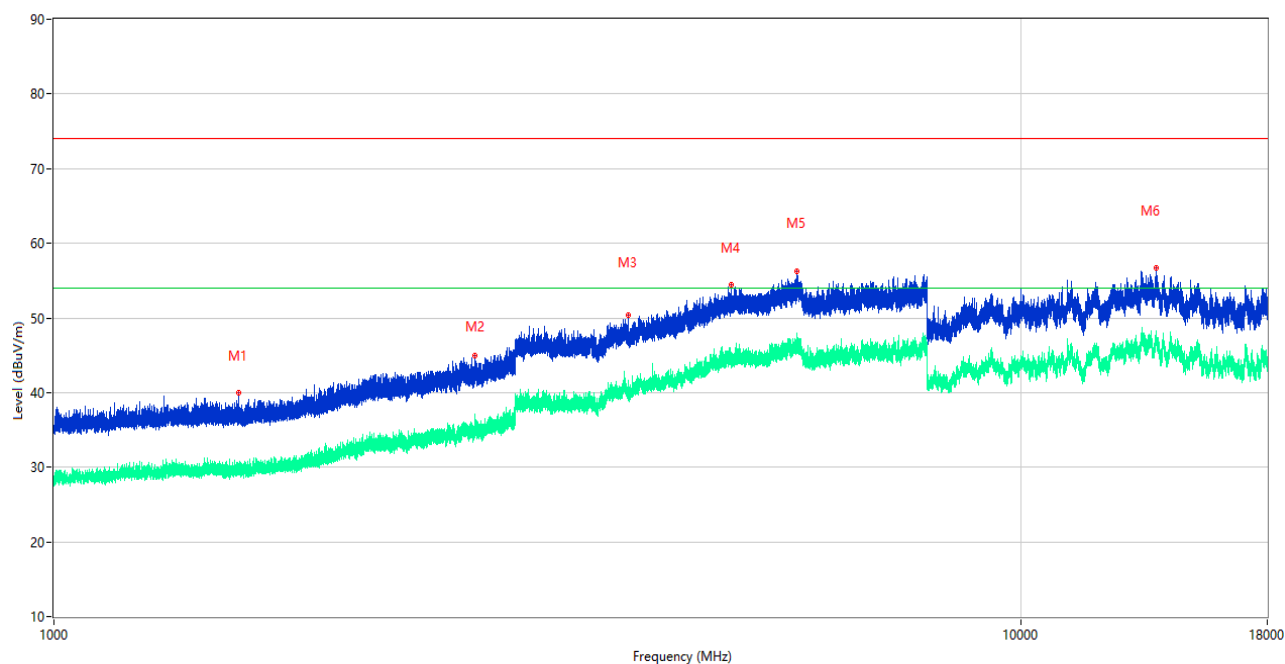
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.086	21.05	-25.52	40.0	18.95	Peak	345.00	100	Horizontal	Pass
2	66.084	21.10	-27.80	40.0	18.90	Peak	3.00	100	Horizontal	Pass
3	83.689	27.14	-30.25	40.0	12.86	Peak	139.00	200	Horizontal	Pass
4	134.760	21.92	-30.04	43.5	21.58	Peak	305.00	200	Horizontal	Pass
5	161.387	27.33	-29.53	43.5	16.17	Peak	90.00	200	Horizontal	Pass
6	211.148	25.55	-26.64	43.5	17.95	Peak	64.00	100	Horizontal	Pass

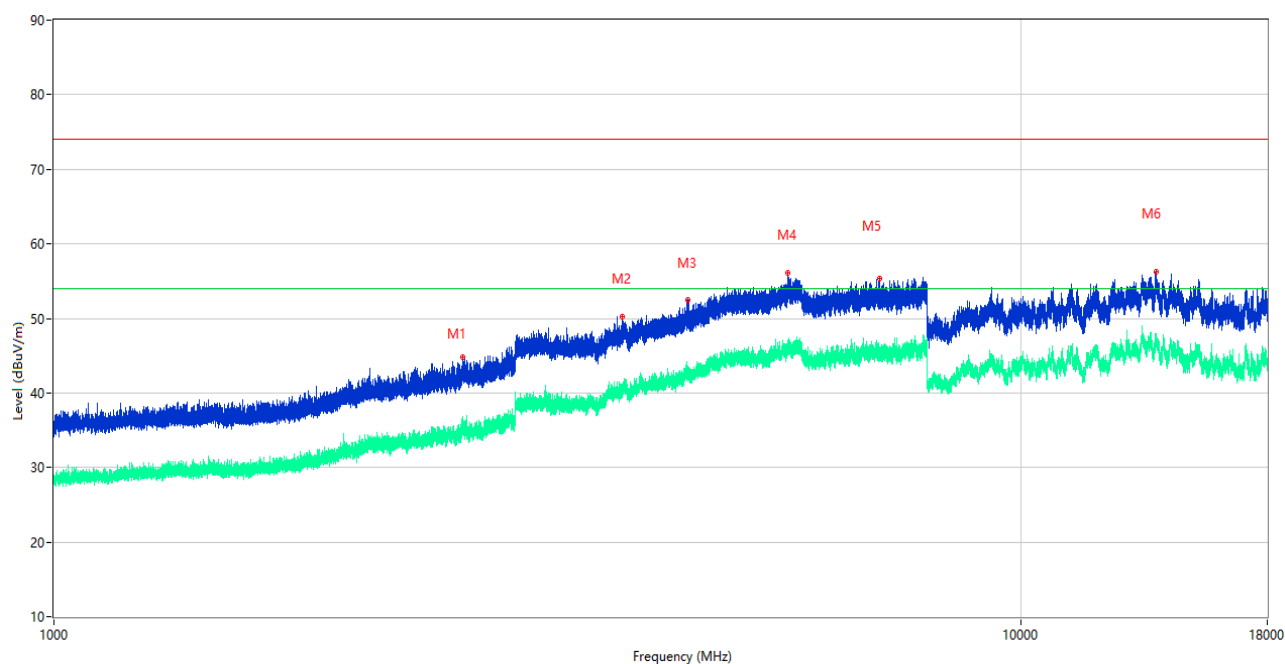
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

3) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1553.600	39.99	-15.95	74.0	34.01	Peak	356.00	100	Vertical	Pass
1**	1553.600	29.16	-15.95	54.0	24.84	AV	356.00	100	Vertical	Pass
2	2728.200	44.89	-9.19	74.0	29.11	Peak	82.00	100	Vertical	Pass
2**	2728.200	34.87	-9.19	54.0	19.13	AV	82.00	100	Vertical	Pass
3	3928.750	50.31	-1.76	74.0	23.69	Peak	63.00	100	Vertical	Pass
3**	3928.750	41.61	-1.76	54.0	12.39	AV	63.00	100	Vertical	Pass
4	5022.250	54.46	1.59	74.0	19.54	Peak	8.00	100	Vertical	Pass
4**	5022.250	44.16	1.59	54.0	9.84	AV	8.00	100	Vertical	Pass
5	5875.250	56.24	3.96	74.0	17.76	Peak	198.00	100	Vertical	Pass
5**	5875.250	46.61	3.96	54.0	7.39	AV	198.00	100	Vertical	Pass
6	13831.500	56.71	5.41	74.0	17.29	Peak	79.00	100	Vertical	Pass
6**	13831.500	47.08	5.41	54.0	6.92	AV	79.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



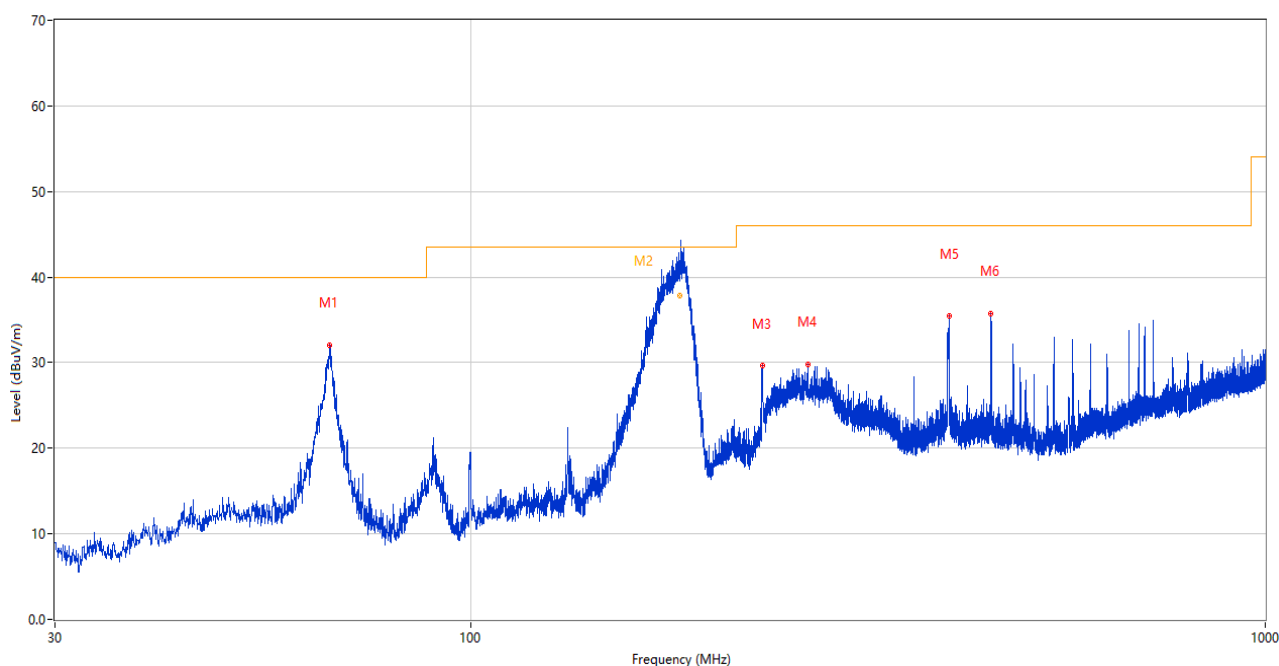
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2651.000	44.78	-9.36	74.0	29.22	Peak	17.00	100	Horizontal	Pass
1**	2651.000	35.57	-9.36	54.0	18.43	AV	17.00	100	Horizontal	Pass
2	3869.750	50.28	-1.63	74.0	23.72	Peak	89.00	100	Horizontal	Pass
2**	3869.750	40.03	-1.63	54.0	13.97	AV	89.00	100	Horizontal	Pass
3	4525.500	52.45	-0.20	74.0	21.55	Peak	43.00	100	Horizontal	Pass
3**	4525.500	42.30	-0.20	54.0	11.70	AV	43.00	100	Horizontal	Pass
4	5740.500	56.17	2.97	74.0	17.83	Peak	52.00	100	Horizontal	Pass
4**	5740.500	45.39	2.97	54.0	8.61	AV	52.00	100	Horizontal	Pass
5	7143.000	55.35	1.10	74.0	18.65	Peak	98.00	100	Horizontal	Pass
5**	7143.000	44.62	1.10	54.0	9.38	AV	98.00	100	Horizontal	Pass
6	13822.500	56.19	5.52	74.0	17.81	Peak	150.00	100	Horizontal	Pass
6**	13822.500	47.75	5.52	54.0	6.25	AV	150.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Sample No.	S07	Temperature	22.4℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.01.24

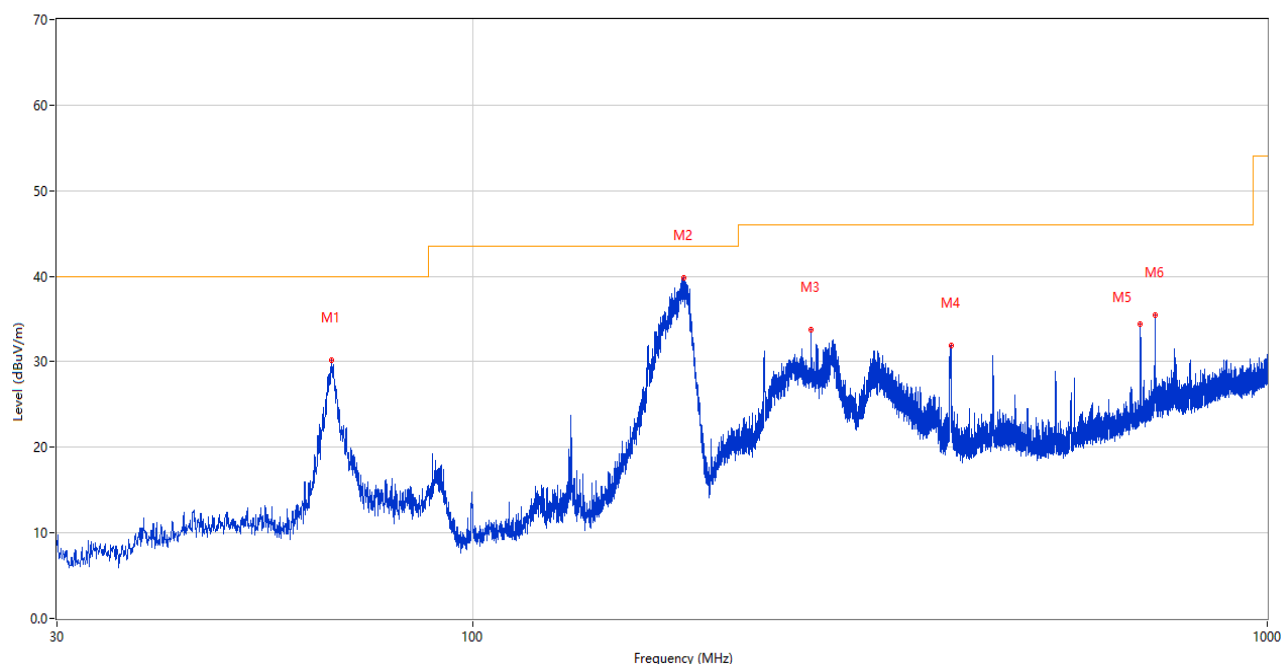
Test Mode 8

5) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.520	32.10	-27.92	40.0	7.90	Peak	244.00	100	Vertical	Pass
2	183.268	42.85	-28.13	43.5	0.65	Peak	159.00	106	Vertical	N/A
2*	183.268*	37.80	-28.13	43.5	5.70	QP	159.00	106	Vertical	Pass
3	233.264	29.60	-25.44	46.0	16.40	Peak	276.00	200	Vertical	Pass
4	266.147	29.80	-24.51	46.0	16.20	Peak	186.00	200	Vertical	Pass
5	399.861	35.47	-20.95	46.0	10.53	Peak	292.00	100	Vertical	Pass
6	451.902	35.76	-19.83	46.0	10.24	Peak	158.00	100	Vertical	Pass

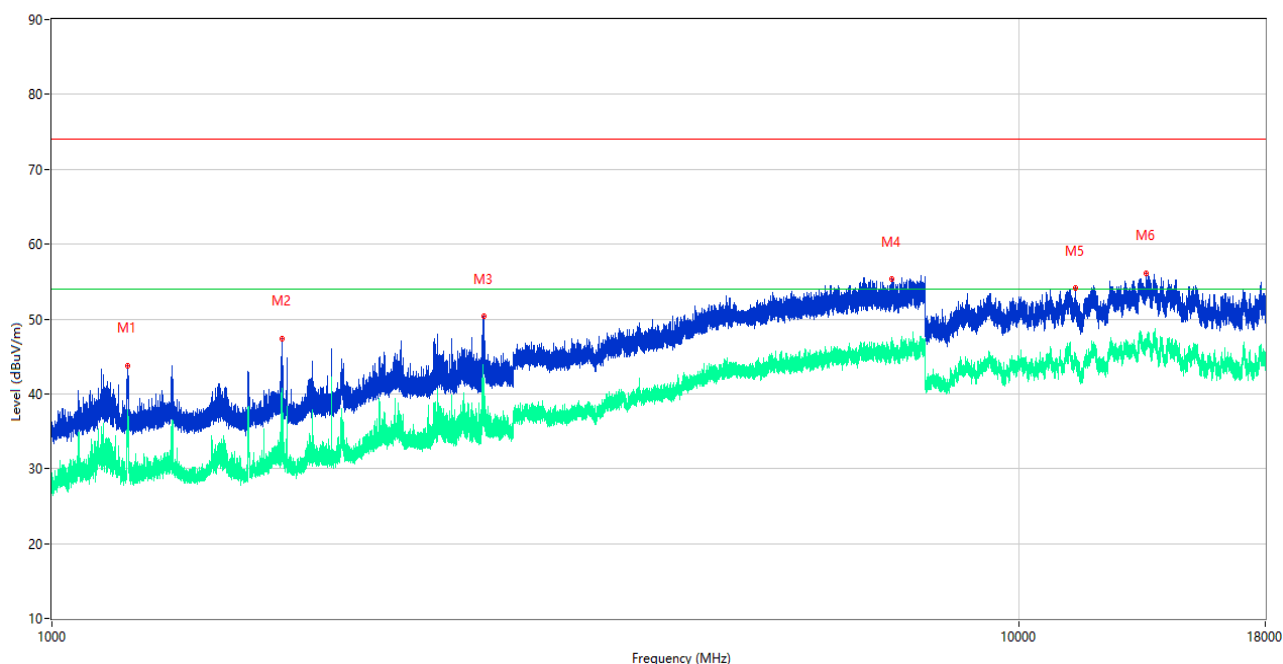
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	66.520	30.24	-27.92	40.0	9.76	Peak	180.00	100	Horizontal	Pass
2	184.182	39.77	-28.16	43.5	3.73	Peak	160.00	200	Horizontal	Pass
3	266.632	33.79	-24.50	46.0	12.21	Peak	269.00	100	Horizontal	Pass
4	399.861	31.91	-20.95	46.0	14.09	Peak	71.00	100	Horizontal	Pass
5	692.607	34.45	-14.18	46.0	11.55	Peak	112.00	100	Horizontal	Pass
6	723.356	35.45	-13.44	46.0	10.55	Peak	163.00	100	Horizontal	Pass

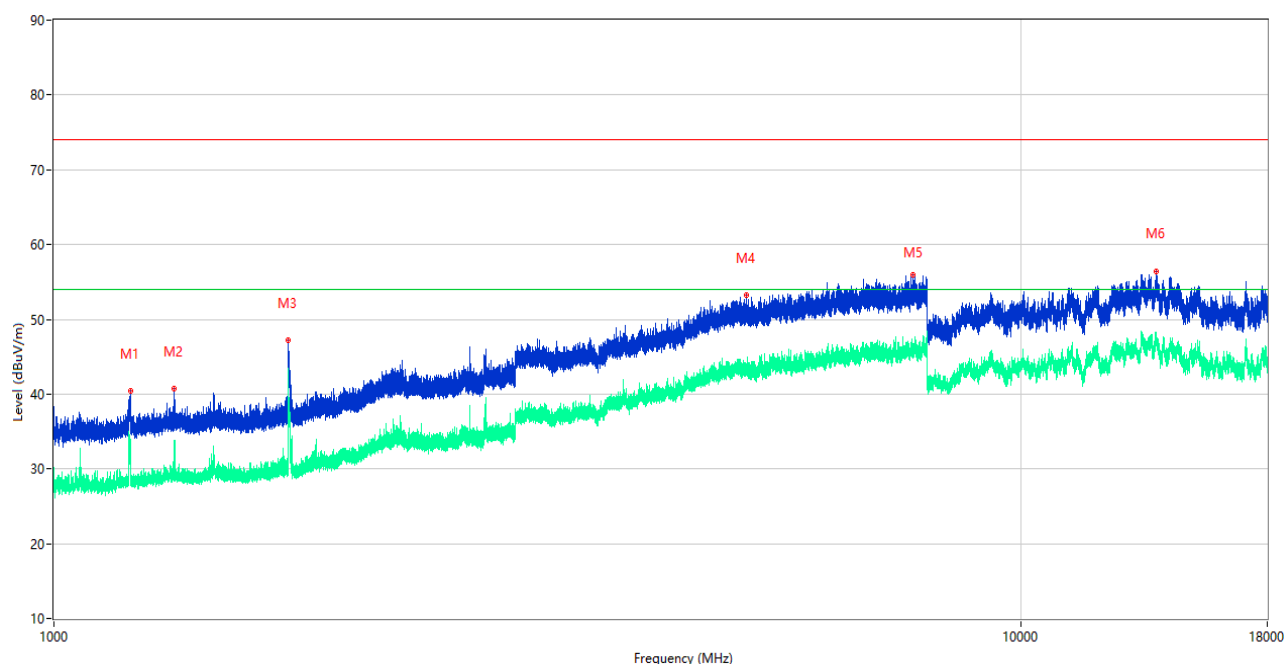
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

7) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.300	43.79	-17.35	74.0	30.21	Peak	226.00	100	Vertical	Pass
1**	1197.300	37.53	-17.35	54.0	16.47	AV	226.00	100	Vertical	Pass
2	1728.300	47.41	-16.48	74.0	26.59	Peak	195.00	100	Vertical	Pass
2**	1728.300	34.57	-16.48	54.0	19.43	AV	195.00	100	Vertical	Pass
3	2795.700	50.42	-8.92	74.0	23.58	Peak	151.00	100	Vertical	Pass
3**	2795.700	39.96	-8.92	54.0	14.04	AV	151.00	100	Vertical	Pass
4	7392.000	55.29	2.40	74.0	18.71	Peak	340.00	100	Vertical	Pass
4**	7392.000	45.61	2.40	54.0	8.39	AV	340.00	100	Vertical	Pass
5	11451.500	54.12	1.58	74.0	19.88	Peak	228.00	100	Vertical	Pass
5**	11451.500	44.67	1.58	54.0	9.33	AV	228.00	100	Vertical	Pass
6	13547.000	56.17	4.68	74.0	17.83	Peak	349.00	100	Vertical	Pass
6**	13547.000	46.74	4.68	54.0	7.26	AV	349.00	100	Vertical	Pass

8) Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.100	40.41	-17.32	74.0	33.59	Peak	247.00	100	Horizontal	Pass
1**	1199.100	32.70	-17.32	54.0	21.30	AV	247.00	100	Horizontal	Pass
2	1332.400	40.71	-16.73	74.0	33.29	Peak	153.00	100	Horizontal	Pass
2**	1332.400	29.70	-16.73	54.0	24.30	AV	153.00	100	Horizontal	Pass
3	1747.000	47.23	-16.30	74.0	26.77	Peak	283.00	100	Horizontal	Pass
3**	1747.000	40.87	-16.30	54.0	13.13	AV	283.00	100	Horizontal	Pass
4	5209.750	53.19	0.29	74.0	20.81	Peak	115.00	100	Horizontal	Pass
4**	5209.750	43.24	0.29	54.0	10.76	AV	115.00	100	Horizontal	Pass
5	7734.250	55.91	2.25	74.0	18.09	Peak	0.00	100	Horizontal	Pass
5**	7734.250	46.01	2.25	54.0	7.99	AV	0.00	100	Horizontal	Pass
6	13812.000	56.40	5.66	74.0	17.60	Peak	160.00	100	Horizontal	Pass
6**	13812.000	47.15	5.66	54.0	6.85	AV	160.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

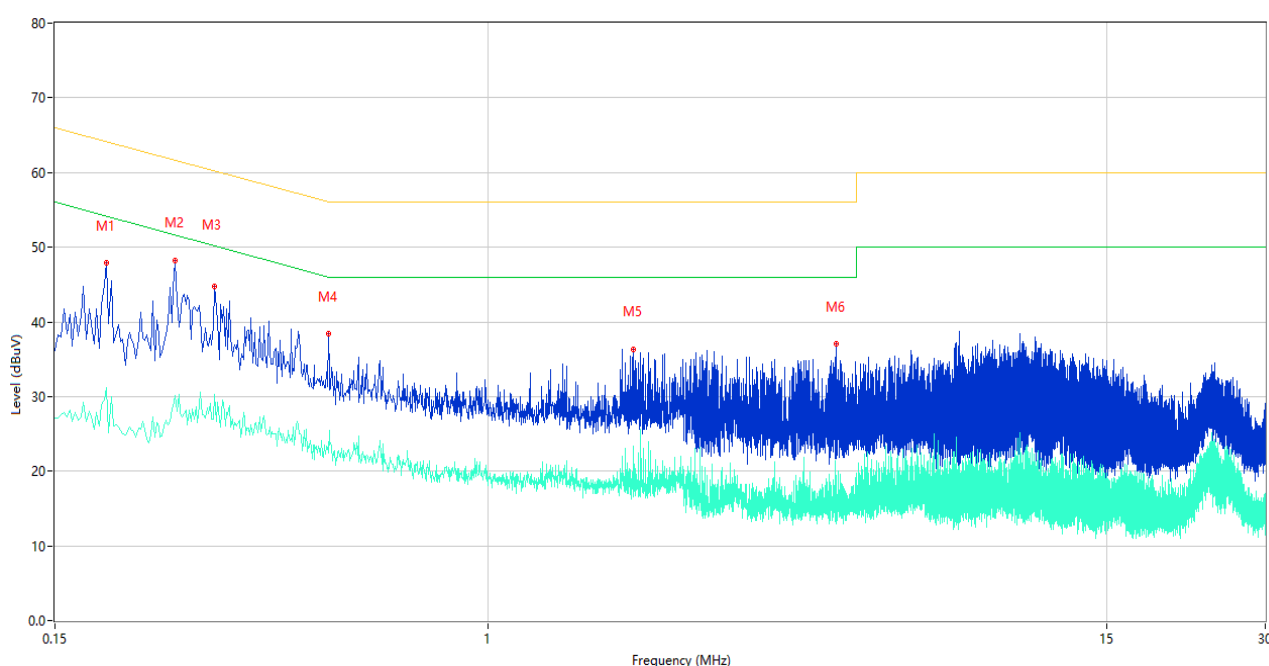
A.2 Conducted Emission, AC Ports

Note: 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. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (240 VAC, 50 Hz) shown here.

Sample No.	S07	Temperature	22.4℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.01.11

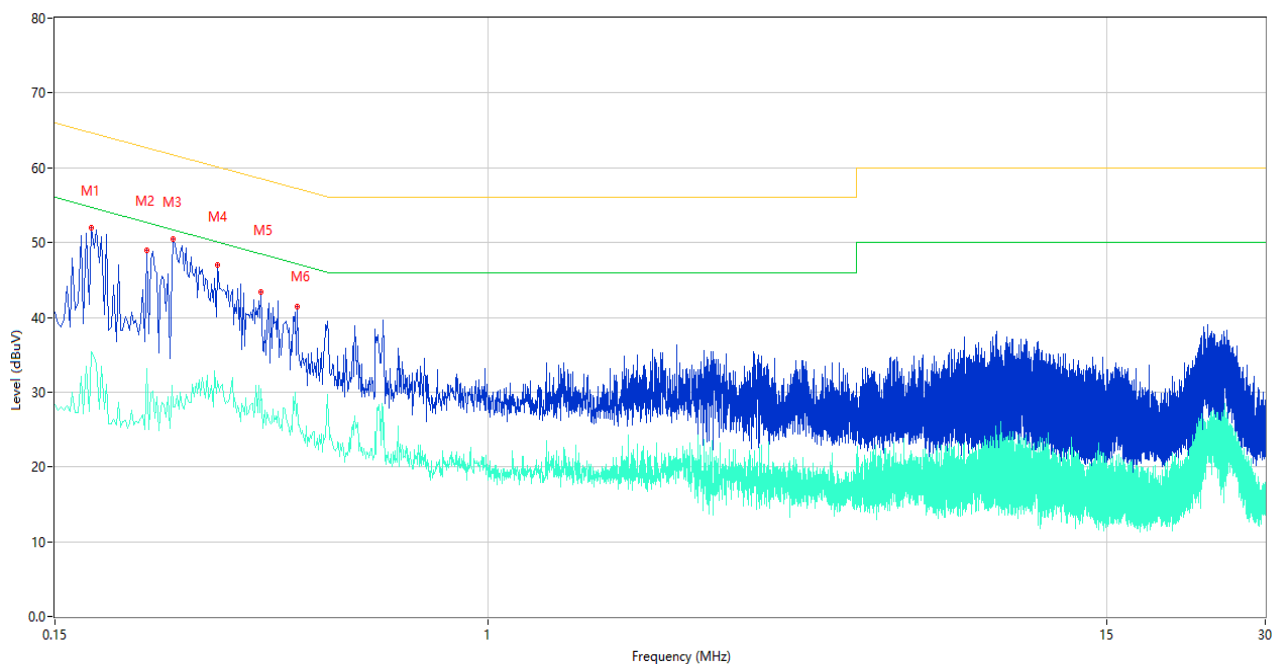
Test Mode 5

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	47.85	9.43	64.12	16.27	Peak	L	Pass
1**	0.188	31.13	9.43	54.12	22.99	AV	L	Pass
2	0.254	48.28	9.43	61.63	13.35	Peak	L	Pass
2**	0.254	30.20	9.43	51.63	21.43	AV	L	Pass
3	0.302	44.74	9.43	60.19	15.45	Peak	L	Pass
3**	0.302	30.28	9.43	50.19	19.91	AV	L	Pass
4	0.496	38.46	9.70	56.07	17.61	Peak	L	Pass
4**	0.496	22.51	9.70	46.07	23.56	AV	L	Pass
5	1.886	36.36	9.50	56.00	19.64	Peak	L	Pass
5**	1.886	23.38	9.50	46.00	22.62	AV	L	Pass
6	4.582	37.02	9.15	56.00	18.98	Peak	L	Pass
6**	4.582	15.01	9.15	46.00	30.99	AV	L	Pass

2) AC Ports - N Phase

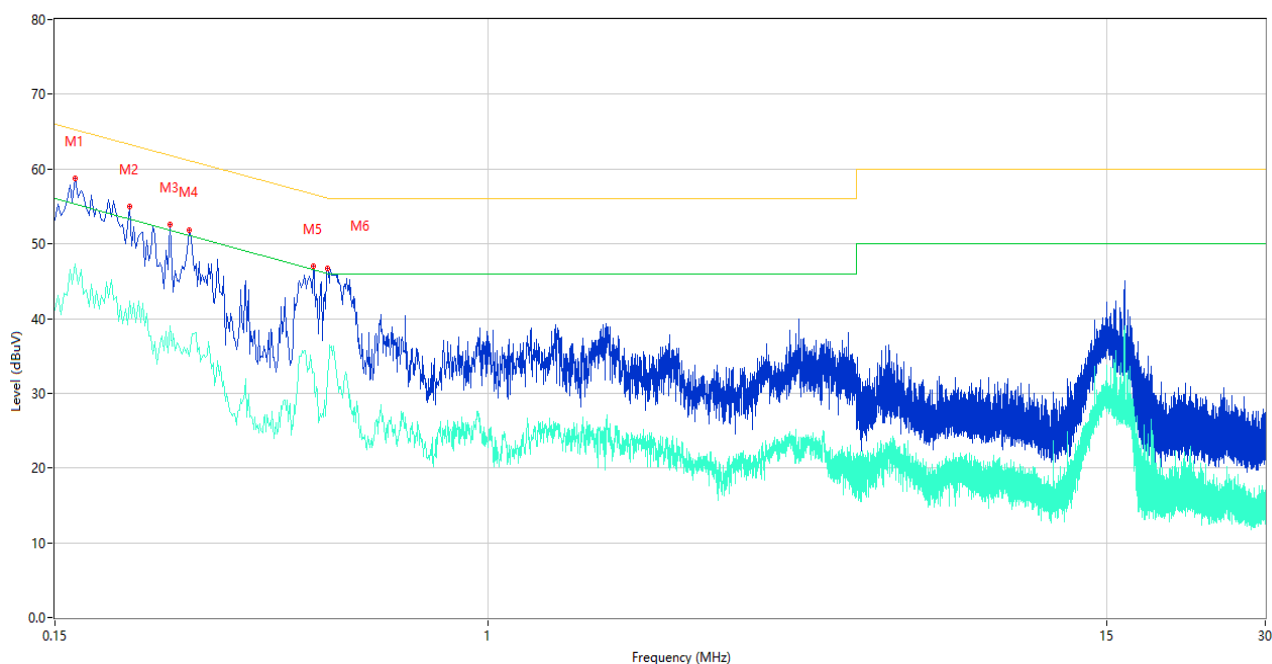


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	52.02	9.44	64.67	12.65	Peak	N	Pass
1**	0.176	35.42	9.44	54.67	19.25	AV	N	Pass
2	0.224	48.89	9.42	62.67	13.78	Peak	N	Pass
2**	0.224	33.21	9.42	52.67	19.46	AV	N	Pass
3	0.252	50.47	9.43	61.69	11.22	Peak	N	Pass
3**	0.252	27.99	9.43	51.69	23.70	AV	N	Pass
4	0.306	46.95	9.42	60.08	13.13	Peak	N	Pass
4**	0.306	31.50	9.42	50.08	18.58	AV	N	Pass
5	0.370	43.38	9.60	58.50	15.12	Peak	N	Pass
5**	0.370	30.40	9.60	48.50	18.10	AV	N	Pass
6	0.434	41.47	9.96	57.18	15.71	Peak	N	Pass
6**	0.434	28.49	9.96	47.18	18.69	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

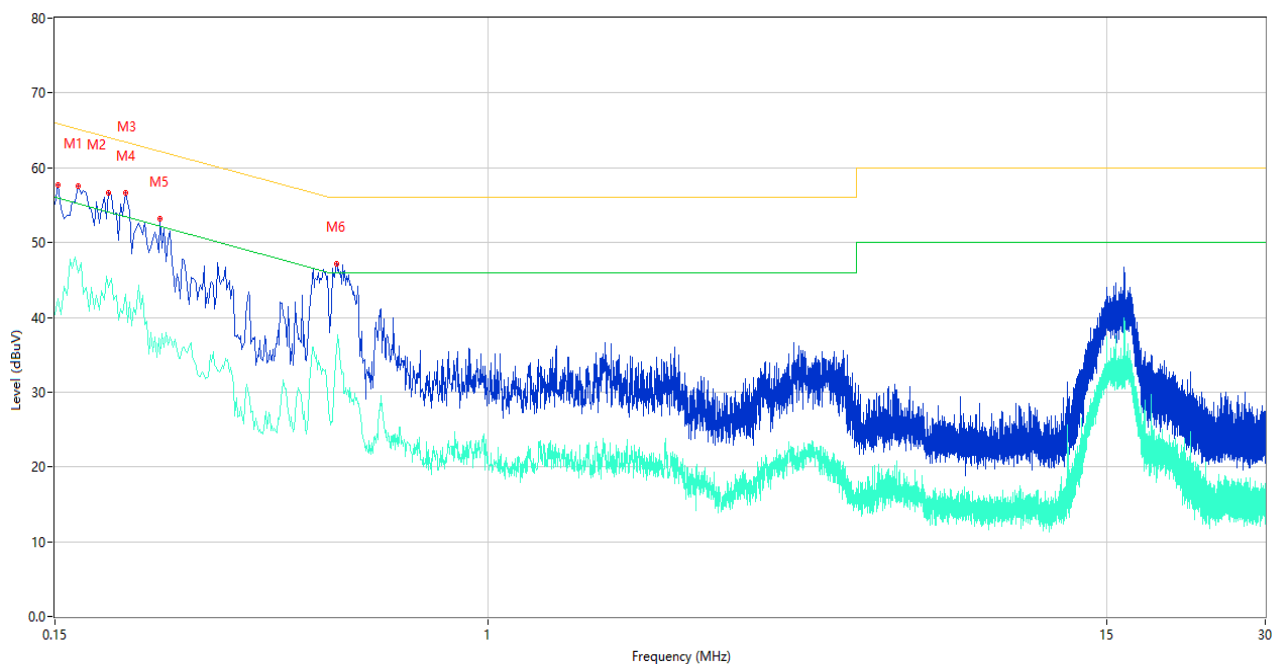
Test Mode 8

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	58.74	9.45	65.26	6.52	Peak	L	Pass
1**	0.164	47.31	9.45	55.26	7.95	AV	L	Pass
2	0.208	54.94	9.42	63.28	8.34	Peak	L	Pass
2**	0.208	42.28	9.42	53.28	11.00	AV	L	Pass
3	0.248	52.57	9.43	61.82	9.25	Peak	L	Pass
3**	0.248	38.99	9.43	51.82	12.83	AV	L	Pass
4	0.270	51.89	9.43	61.12	9.23	Peak	L	Pass
4**	0.270	34.88	9.43	51.12	16.24	AV	L	Pass
5	0.464	46.94	9.86	56.62	9.68	Peak	L	Pass
5**	0.464	32.86	9.86	46.62	13.76	AV	L	Pass
6	0.494	46.67	9.71	56.10	9.43	Peak	L	Pass
6**	0.494	31.96	9.71	46.10	14.14	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	57.77	9.47	65.89	8.12	Peak	N	Pass
1**	0.152	42.47	9.47	55.89	13.42	AV	N	Pass
2	0.166	57.53	9.45	65.16	7.63	Peak	N	Pass
2**	0.166	45.99	9.45	55.16	9.17	AV	N	Pass
3	0.190	56.66	9.43	64.04	7.38	Peak	N	Pass
3**	0.190	43.99	9.43	54.04	10.05	AV	N	Pass
4	0.204	56.58	9.42	63.45	6.87	Peak	N	Pass
4**	0.204	43.05	9.42	53.45	10.40	AV	N	Pass
5	0.238	53.12	9.43	62.17	9.05	Peak	N	Pass
5**	0.238	35.06	9.43	52.17	17.11	AV	N	Pass
6	0.514	47.20	9.72	56.00	8.80	Peak	N	Pass
6**	0.514	35.46	9.72	46.00	10.54	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	☒
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2410130-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2410130-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2410130-AI.PDF”.

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--END OF REPORT--