

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: X6850B
Brand Name: Infinix
FCC ID 2AIZN-X6850B
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 01, 2024
Test Date: Feb. 21, 2024 - Mar. 04, 2024
Date of Issue: Mar. 29, 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>Mar. 29, 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	X6850B
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	Infinix
	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	Infinix
	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 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, FM Receiver, NFC, WPT
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 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	☒

4.2 Test Configurations

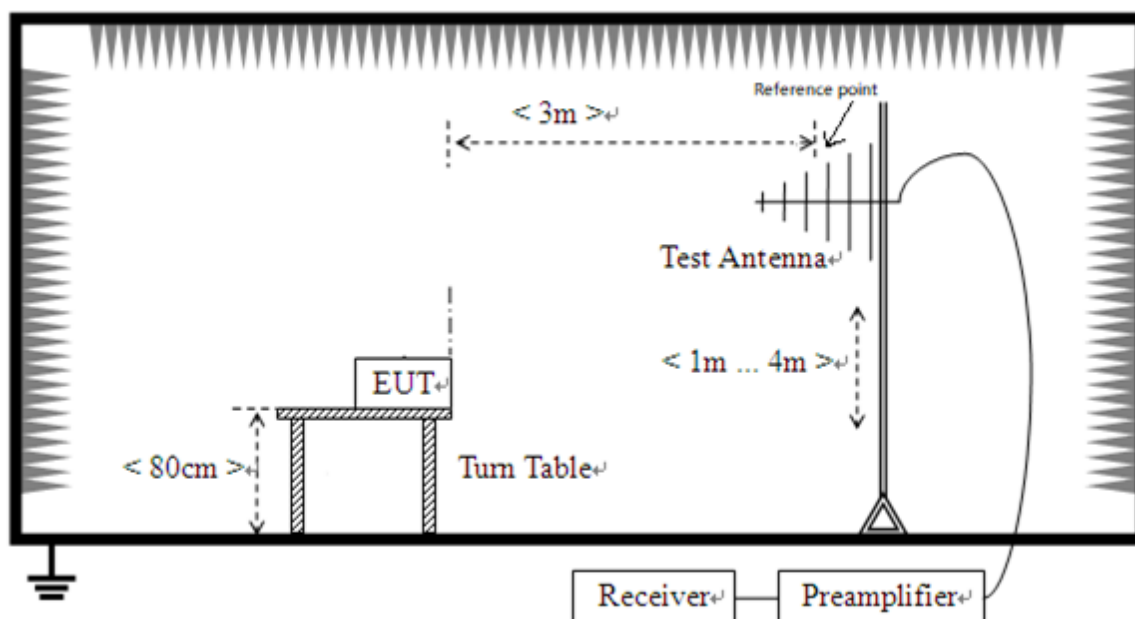
All test modes of EUT are listed in the table below.

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 Standby Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 4	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 5	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 6	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 7	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop
Mode 8	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk
Mode 9	<u>The FM RX Test Mode</u> EUT + Type-C Headset + Battery + FM RX

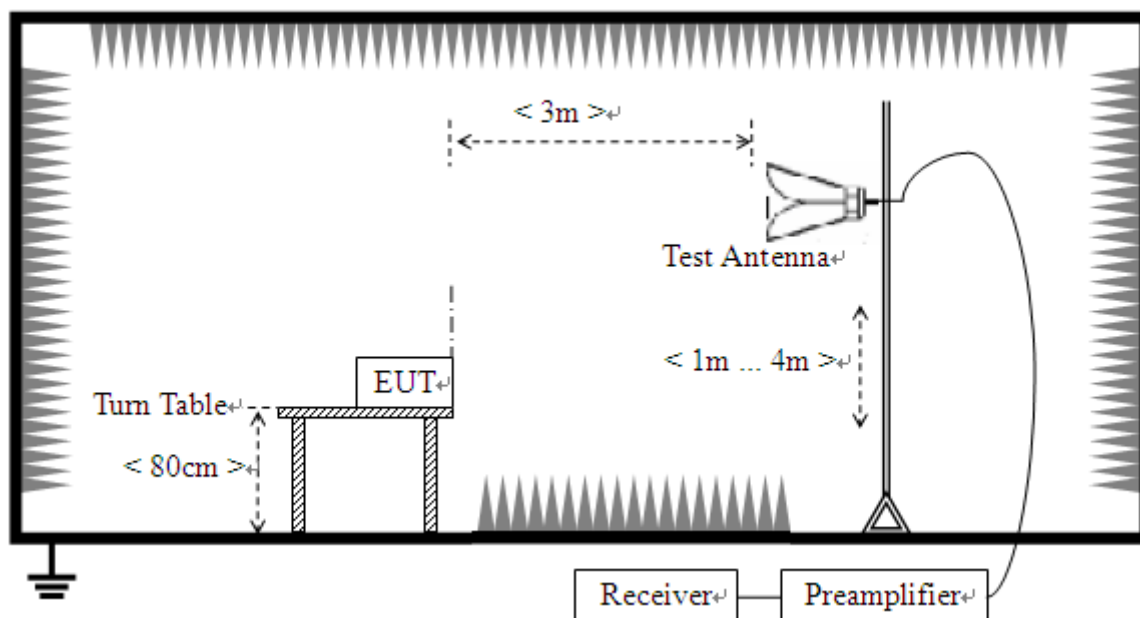
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 9	4, 7
Conducted Emission, AC Ports	Mode 1~Mode 7	4, 7
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

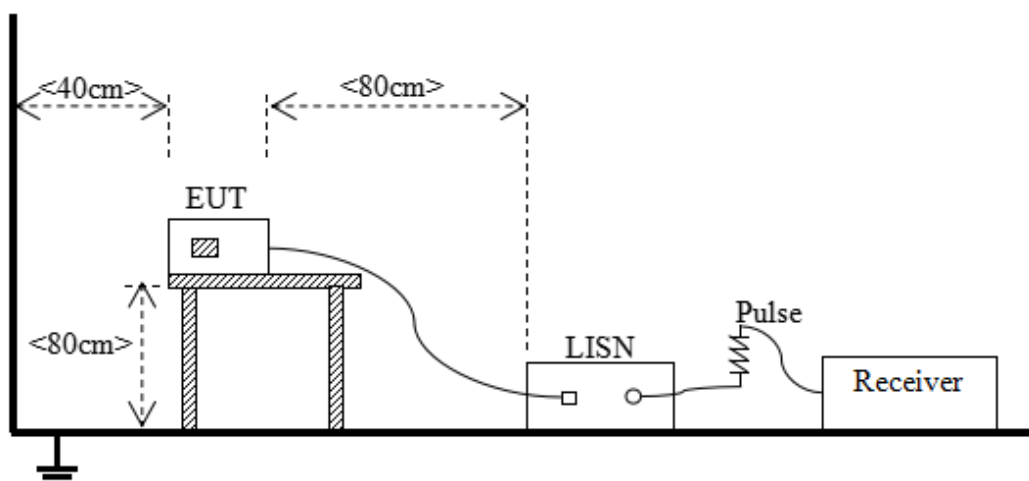
Test Setup 1



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) 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) + 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 (dBμV) = Reading (dBμV) + 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.

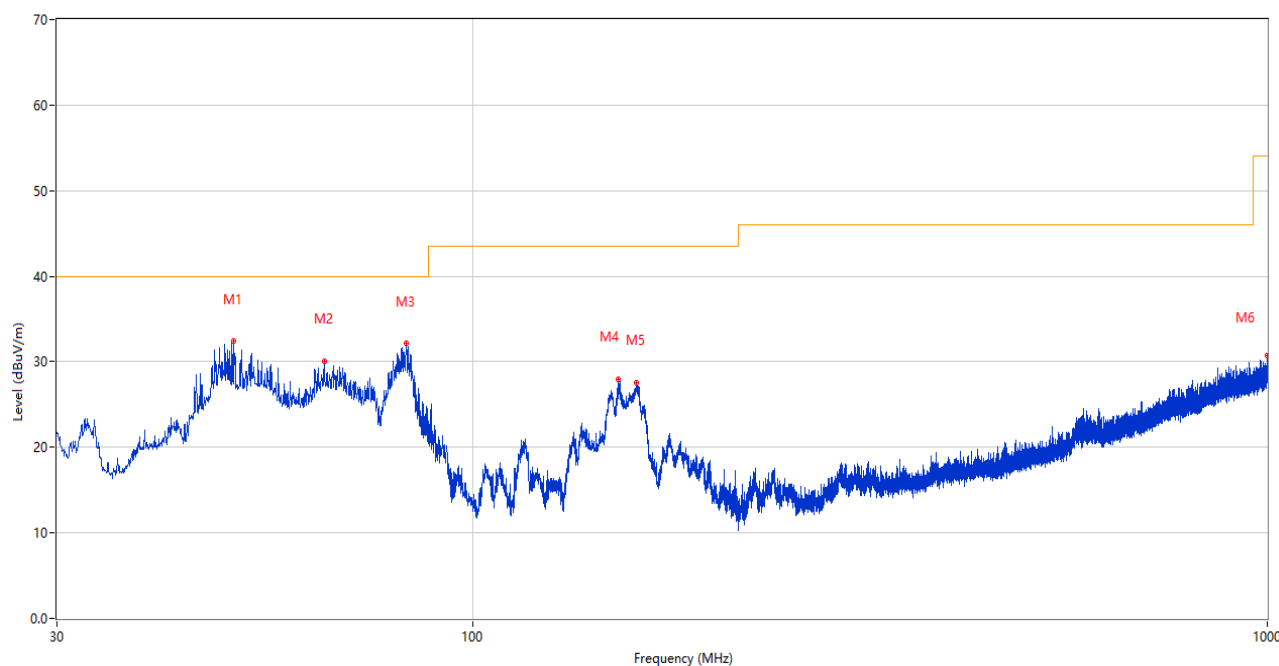
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S04	Temperature	21.5℃
Humidity	57%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.02.21

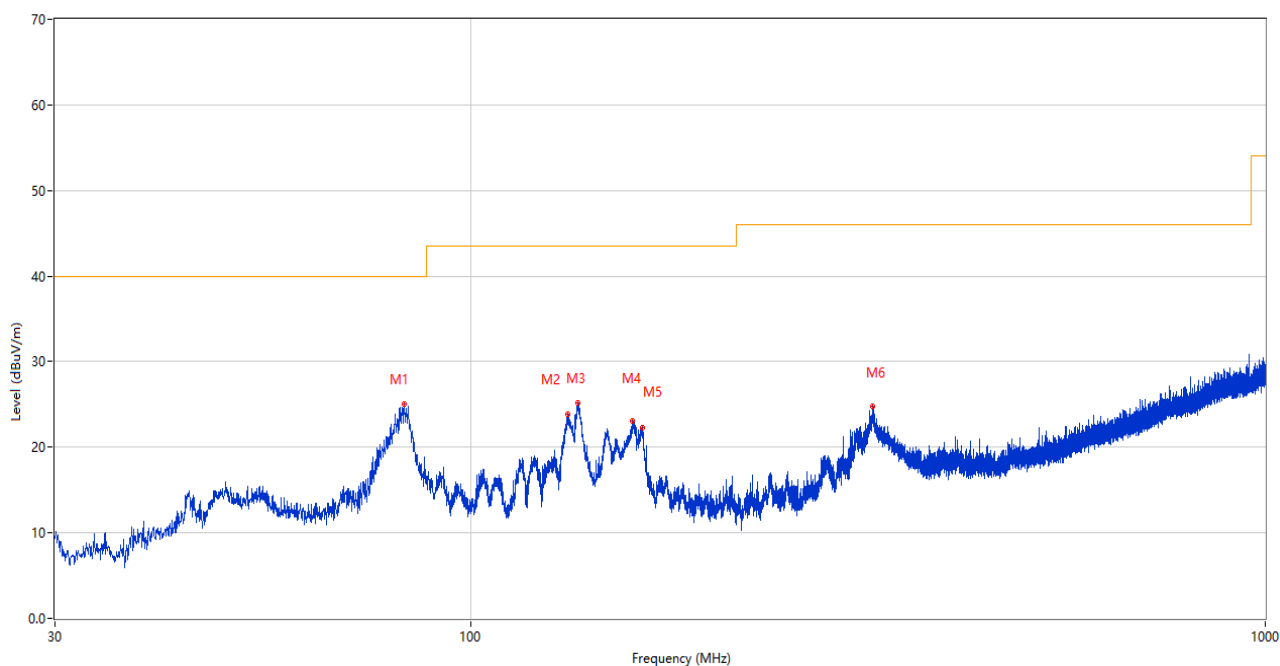
Test Mode 4

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	50.031	32.37	-25.59	40.0	7.63	Peak	26.00	100	Vertical	Pass
2	65.066	30.12	-27.56	40.0	9.88	Peak	97.00	100	Vertical	Pass
3	82.525	32.10	-30.56	40.0	7.90	Peak	60.00	100	Vertical	Pass
4	152.365	27.96	-30.04	43.5	15.54	Peak	1.00	100	Vertical	Pass
5	160.708	27.53	-29.54	43.5	15.97	Peak	17.00	100	Vertical	Pass
6	998.787	30.73	-8.37	54.0	23.27	Peak	193.00	100	Vertical	Pass

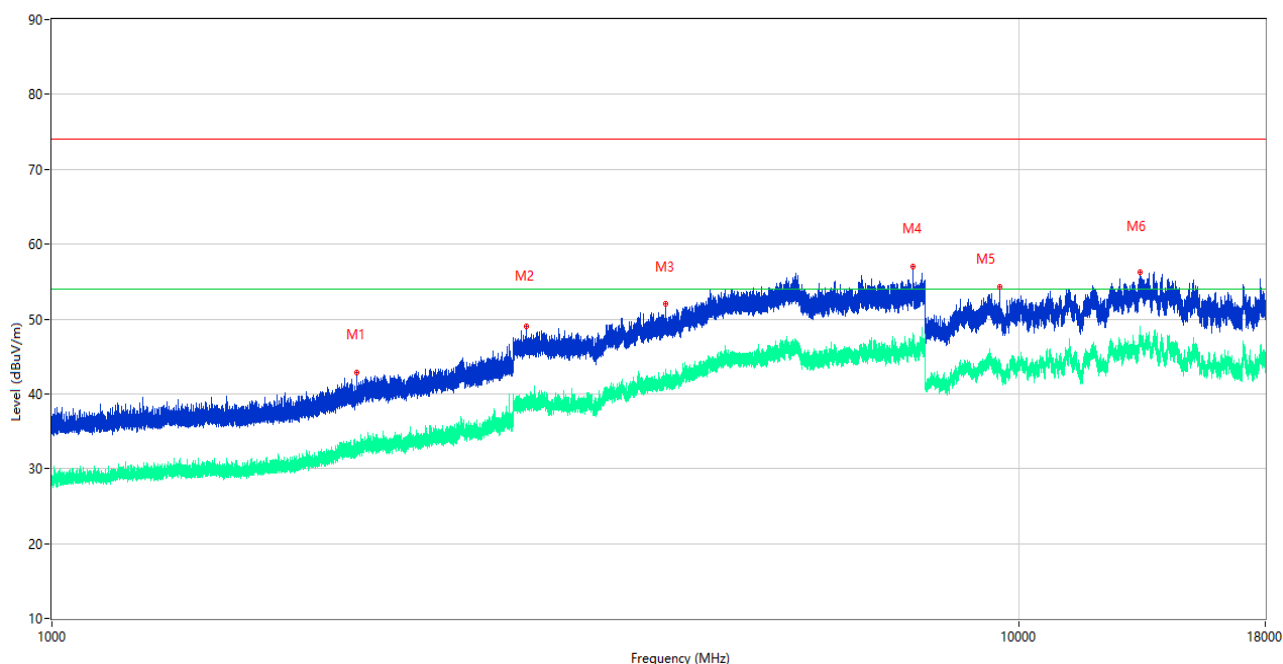
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	82.525	25.06	-30.56	40.0	14.94	Peak	159.00	200	Horizontal	Pass
2	132.626	23.81	-29.91	43.5	19.69	Peak	153.00	200	Horizontal	Pass
3	136.312	25.23	-30.10	43.5	18.27	Peak	155.00	200	Horizontal	Pass
4	159.980	23.05	-29.57	43.5	20.45	Peak	110.00	200	Horizontal	Pass
5	164.393	22.23	-29.34	43.5	21.27	Peak	97.00	200	Horizontal	Pass
6	320.854	24.80	-23.10	46.0	21.20	Peak	174.00	100	Horizontal	Pass

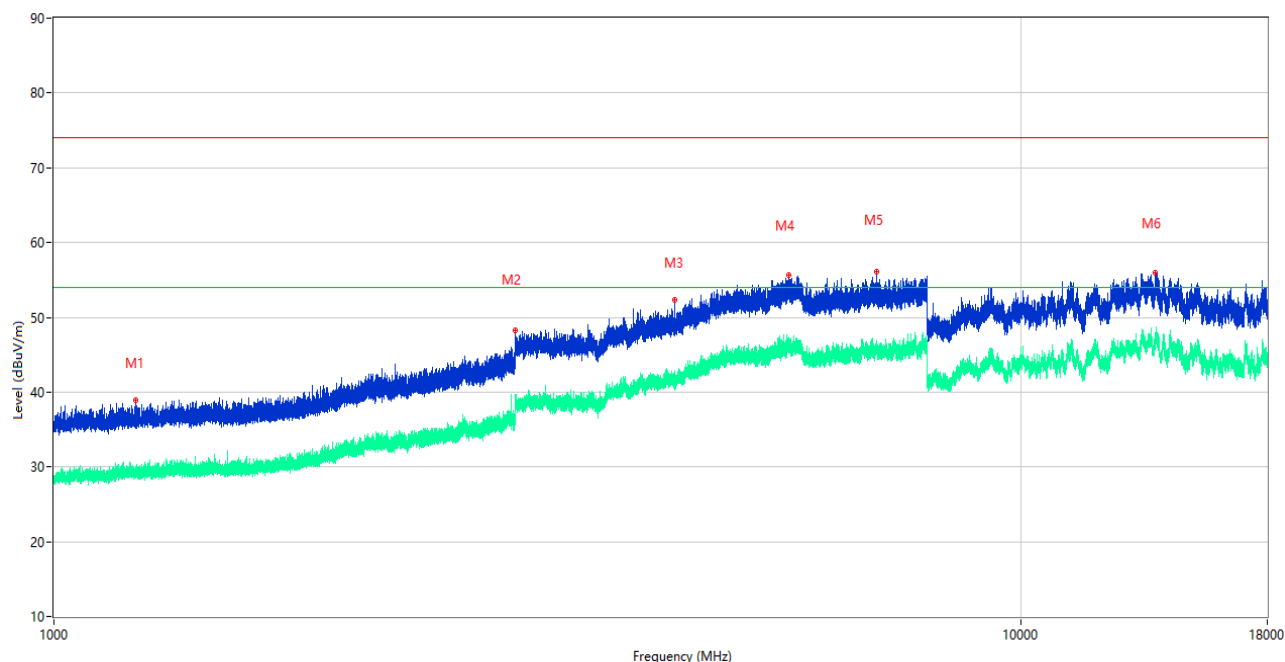
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZ BECK	VULB 9168	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 – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2069.600	42.91	-12.81	74.0	31.09	Peak	227.00	100	Vertical	Pass
1**	2069.600	32.81	-12.81	54.0	21.19	AV	227.00	100	Vertical	Pass
2	3092.500	48.96	-4.46	74.0	25.04	Peak	219.00	100	Vertical	Pass
2**	3092.500	38.50	-4.46	54.0	15.50	AV	219.00	100	Vertical	Pass
3	4313.750	52.00	-0.78	74.0	22.00	Peak	335.00	100	Vertical	Pass
3**	4313.750	41.79	-0.78	54.0	12.21	AV	335.00	100	Vertical	Pass
4	7775.500	57.08	3.05	74.0	16.92	Peak	173.00	100	Vertical	Pass
4**	7775.500	48.18	3.05	54.0	5.82	AV	173.00	100	Vertical	Pass
5	9561.500	54.32	1.08	74.0	19.68	Peak	237.00	100	Vertical	Pass
5**	9561.500	42.72	1.08	54.0	11.28	AV	237.00	100	Vertical	Pass
6	13361.000	56.22	5.16	74.0	17.78	Peak	290.00	100	Vertical	Pass
6**	13361.000	46.66	5.16	54.0	7.34	AV	290.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 6 GHz



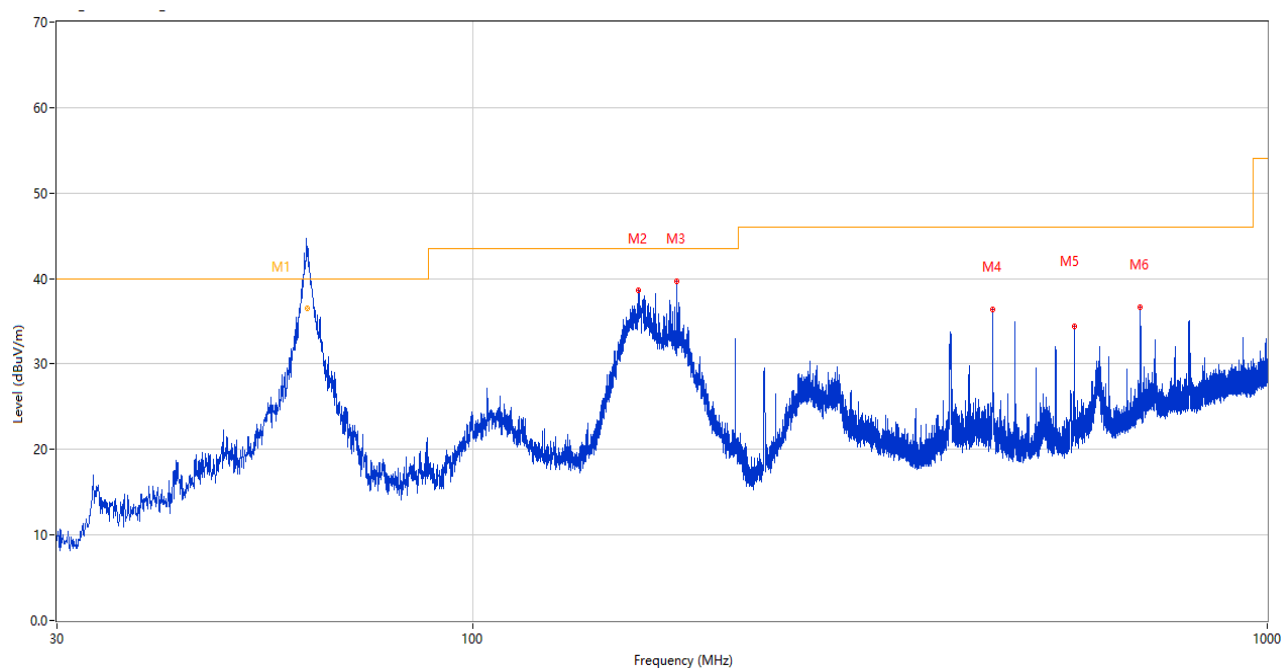
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1213.800	38.93	-16.26	74.0	35.07	Peak	310.00	100	Horizontal	Pass
1**	1213.800	29.61	-16.26	54.0	24.39	AV	310.00	100	Horizontal	Pass
2	3003.500	48.31	-5.39	74.0	25.69	Peak	199.00	100	Horizontal	Pass
2**	3003.500	38.16	-5.39	54.0	15.84	AV	199.00	100	Horizontal	Pass
3	4392.250	52.34	-0.13	74.0	21.66	Peak	61.00	100	Horizontal	Pass
3**	4392.250	40.86	-0.13	54.0	13.14	AV	61.00	100	Horizontal	Pass
4	5751.000	55.70	3.29	74.0	18.30	Peak	235.00	100	Horizontal	Pass
4**	5751.000	46.39	3.29	54.0	7.61	AV	235.00	100	Horizontal	Pass
5	7097.750	56.06	2.15	74.0	17.94	Peak	107.00	100	Horizontal	Pass
5**	7097.750	46.07	2.15	54.0	7.93	AV	107.00	100	Horizontal	Pass
6	13790.000	56.00	5.36	74.0	18.00	Peak	33.00	100	Horizontal	Pass
6**	13790.000	46.71	5.36	54.0	7.29	AV	33.00	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	SCHWARZ BECK	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.	S04	Temperature	21.5℃
Humidity	57%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.02.22

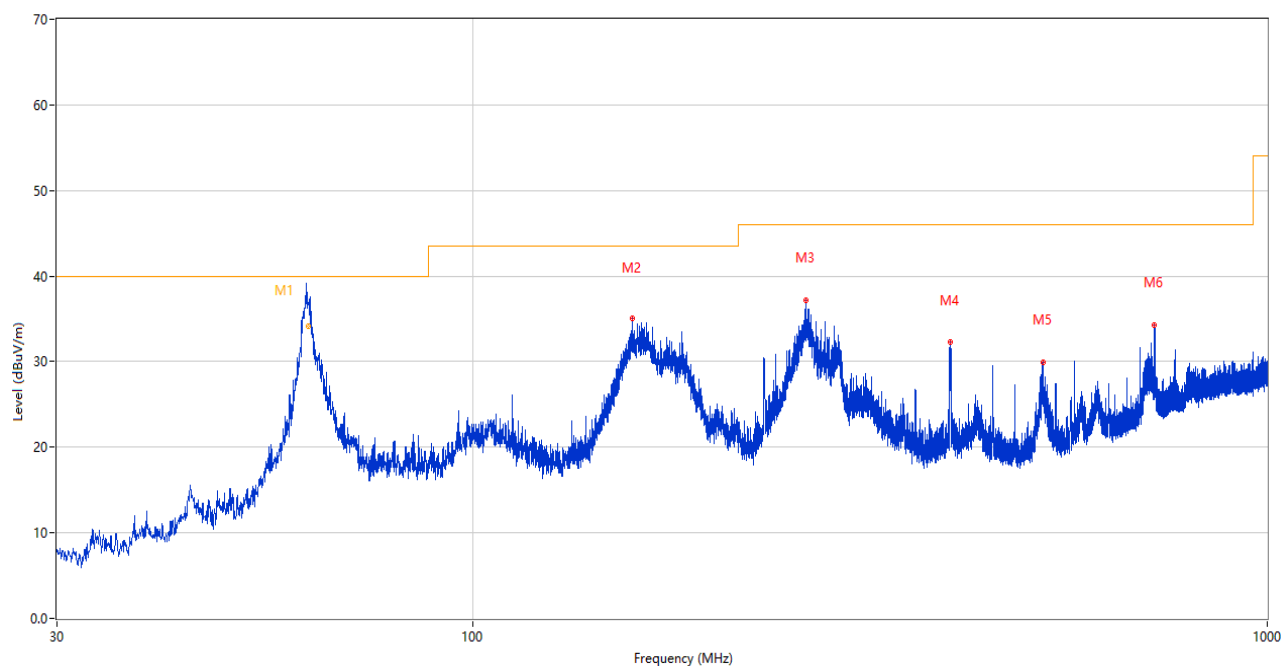
Test Mode 7

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	61.936	45.56	-27.09	40.0	-5.56	Peak	294.00	111	Vertical	N/A
1*	61.936*	36.49	-27.09	40.0	3.51	QP	294.00	111	Vertical	Pass
2	161.920	38.58	-29.51	43.5	4.92	Peak	194.00	100	Vertical	Pass
3	180.835	39.74	-28.49	43.5	3.76	Peak	100.00	100	Vertical	Pass
4	451.659	36.34	-19.85	46.0	9.66	Peak	150.00	100	Vertical	Pass
5	571.890	34.47	-16.99	46.0	11.53	Peak	116.00	200	Vertical	Pass
6	692.268	36.71	-14.13	46.0	9.29	Peak	146.00	100	Vertical	Pass

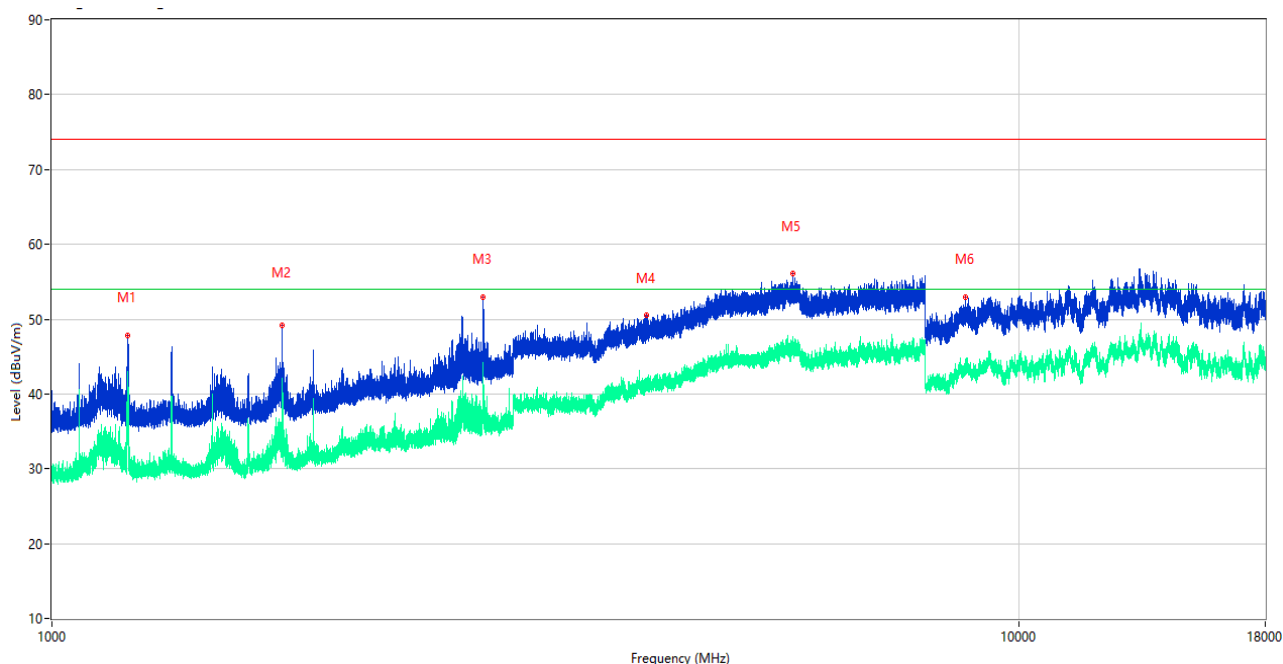
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.128	39.89	-27.10	40.0	0.11	Peak	337.00	200	Horizontal	N/A
1*	62.128*	34.20	-27.10	40.0	5.80	QP	337.00	200	Horizontal	Pass
2	158.768	35.04	-29.66	43.5	8.46	Peak	325.00	200	Horizontal	Pass
3	262.655	37.21	-24.55	46.0	8.79	Peak	236.00	100	Horizontal	Pass
4	399.667	32.23	-20.95	46.0	13.77	Peak	186.00	100	Horizontal	Pass
5	521.790	29.97	-18.15	46.0	16.03	Peak	100.00	200	Horizontal	Pass
6	721.416	34.29	-13.55	46.0	11.71	Peak	174.00	100	Horizontal	Pass

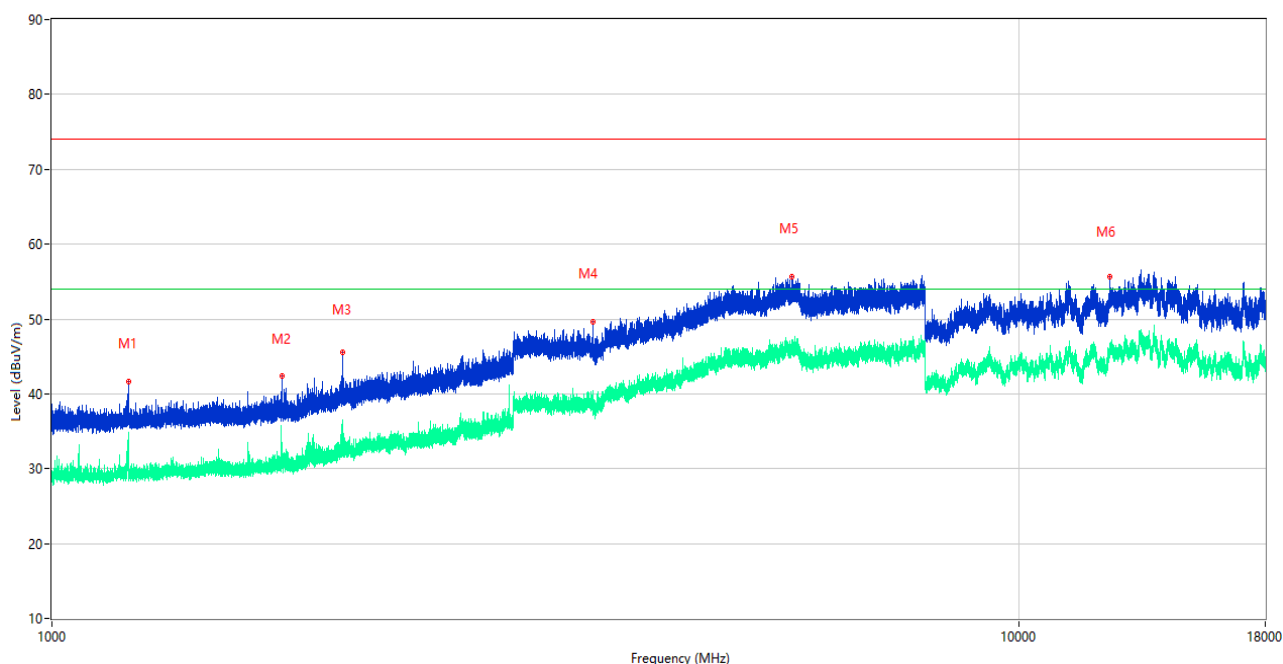
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZ BECK	VULB 9168	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 – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.500	47.87	-16.22	74.0	26.13	Peak	236.00	100	Vertical	Pass
1**	1197.500	35.03	-16.22	54.0	18.97	AV	236.00	100	Vertical	Pass
2	1730.400	49.12	-15.83	74.0	24.88	Peak	177.00	100	Vertical	Pass
2**	1730.400	39.65	-15.83	54.0	14.35	AV	177.00	100	Vertical	Pass
3	2792.400	53.01	-8.47	74.0	20.99	Peak	168.00	100	Vertical	Pass
3**	2792.400	37.66	-8.47	54.0	16.34	AV	168.00	100	Vertical	Pass
4	4123.250	50.51	-1.55	74.0	23.49	Peak	156.00	100	Vertical	Pass
4**	4123.250	41.36	-1.55	54.0	12.64	AV	156.00	100	Vertical	Pass
5	5835.000	56.14	3.95	74.0	17.86	Peak	264.00	100	Vertical	Pass
5**	5835.000	45.73	3.95	54.0	8.27	AV	264.00	100	Vertical	Pass
6	8814.500	52.90	1.20	74.0	21.10	Peak	171.00	100	Vertical	Pass
6**	8814.500	43.17	1.20	54.0	10.83	AV	171.00	100	Vertical	Pass

8) Test Antenna Horizontal, 1 GHz – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.300	41.71	-16.23	74.0	32.29	Peak	261.00	100	Horizontal	Pass
1**	1199.300	29.48	-16.23	54.0	24.52	AV	261.00	100	Horizontal	Pass
2	1729.000	42.39	-15.87	74.0	31.61	Peak	218.00	100	Horizontal	Pass
2**	1729.000	31.50	-15.87	54.0	22.50	AV	218.00	100	Horizontal	Pass
3	2000.000	45.61	-13.86	74.0	28.39	Peak	154.00	100	Horizontal	Pass
3**	2000.000	34.67	-13.86	54.0	19.33	AV	154.00	100	Horizontal	Pass
4	3630.250	49.57	-4.00	74.0	24.43	Peak	133.00	100	Horizontal	Pass
4**	3630.250	37.91	-4.00	54.0	16.09	AV	133.00	100	Horizontal	Pass
5	5833.750	55.61	4.02	74.0	18.39	Peak	224.00	100	Horizontal	Pass
5**	5833.750	46.30	4.02	54.0	7.70	AV	224.00	100	Horizontal	Pass
6	12443.000	55.60	2.61	74.0	18.40	Peak	165.00	100	Horizontal	Pass
6**	12443.000	46.72	2.61	54.0	7.28	AV	165.00	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	SCHWARZ BECK	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	/		☒

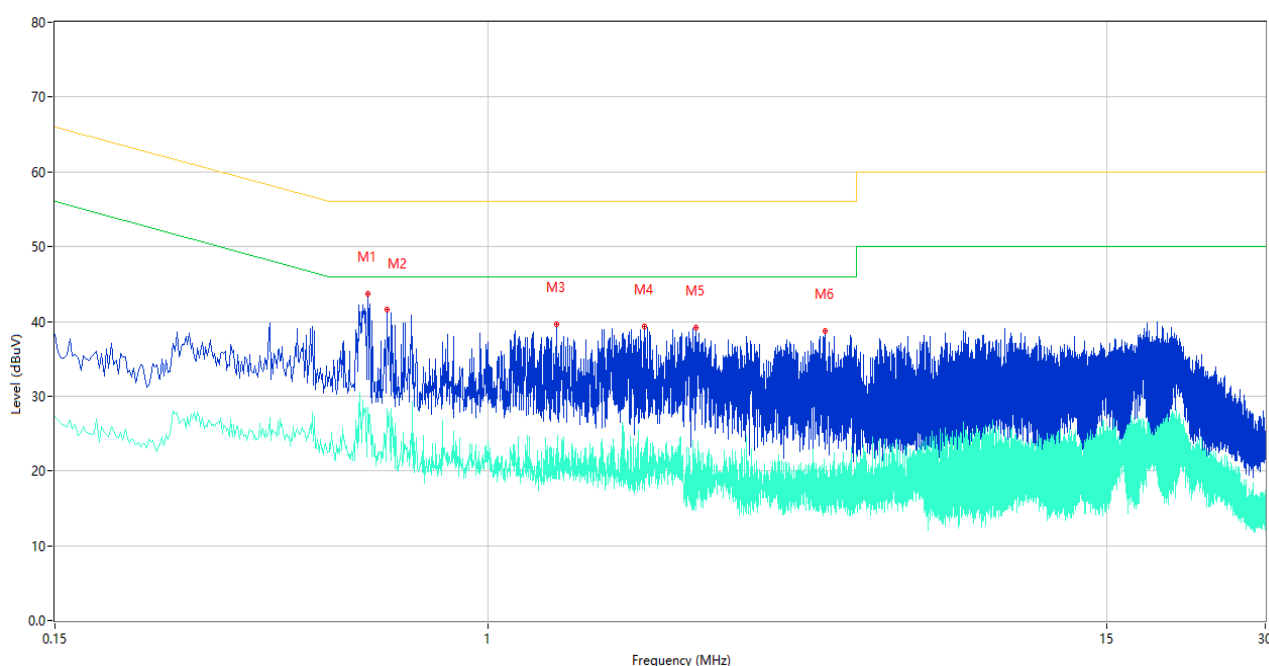
A.2 Conducted Emission, AC Ports

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 (120 VAC, 60 Hz) shown here.

Sample No.	S04	Temperature	21.5℃
Humidity	57%RH	Pressure	101kPa
Test Engineer	Gu Shuaizhen	Test Date	2024.02.23

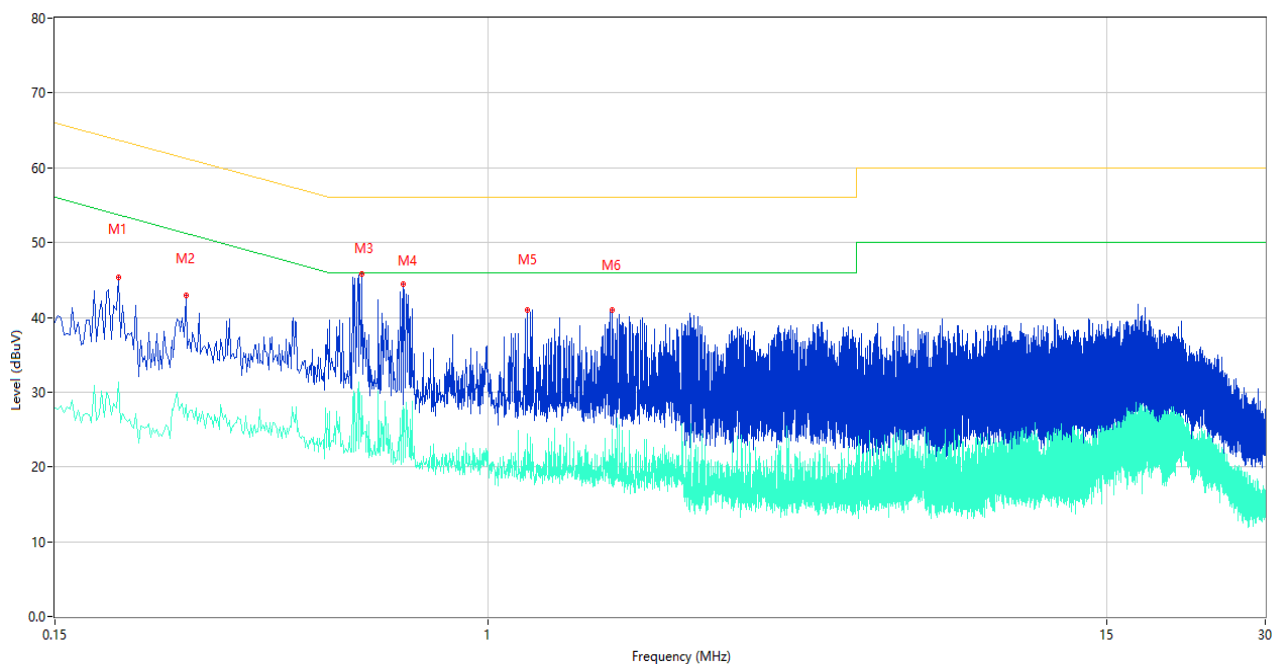
Test Mode 4

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.590	43.74	9.97	56.00	12.26	Peak	L	Pass
1**	0.590	28.52	9.97	46.00	17.48	AV	L	Pass
2	0.642	41.64	9.69	56.00	14.36	Peak	L	Pass
2**	0.642	28.38	9.69	46.00	17.62	AV	L	Pass
3	1.350	39.62	9.77	56.00	16.38	Peak	L	Pass
3**	1.350	21.43	9.77	46.00	24.57	AV	L	Pass
4	1.982	39.27	9.47	56.00	16.73	Peak	L	Pass
4**	1.982	21.60	9.47	46.00	24.40	AV	L	Pass
5	2.486	39.21	9.44	56.00	16.79	Peak	L	Pass
5**	2.486	14.72	9.44	46.00	31.28	AV	L	Pass
6	4.374	38.70	9.62	56.00	17.30	Peak	L	Pass
6**	4.374	18.14	9.62	46.00	27.86	AV	L	Pass

2) AC Ports - N Phase

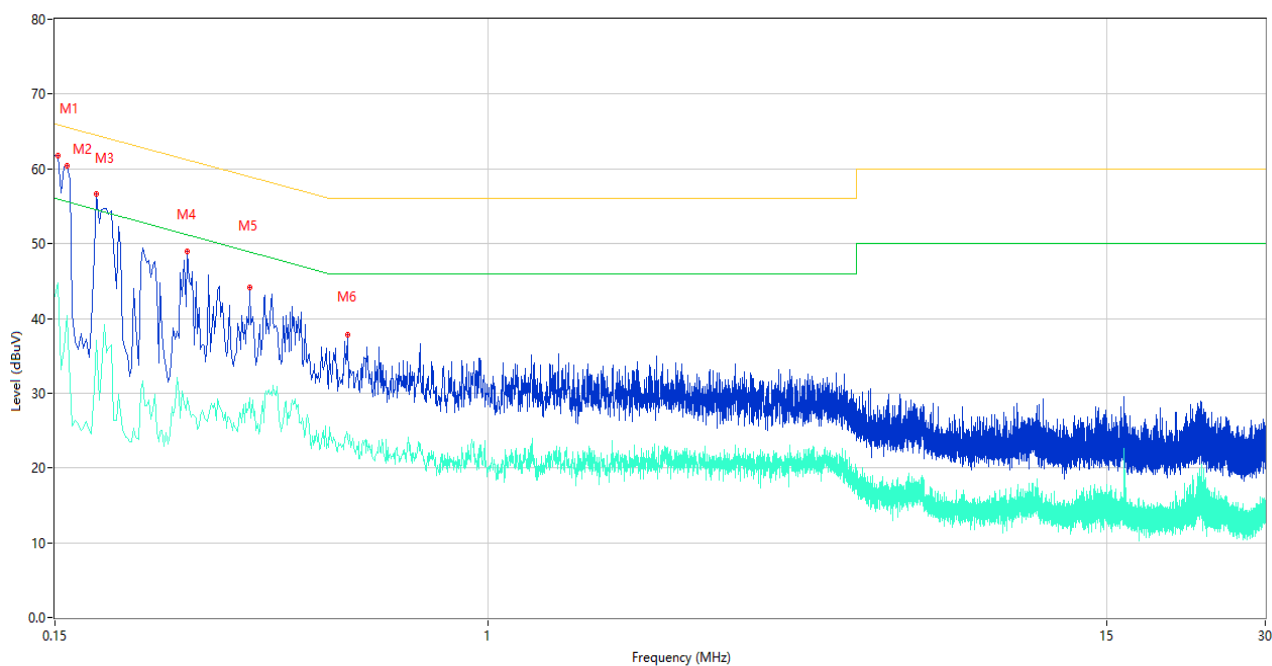


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.198	45.40	9.42	63.69	18.29	Peak	N	Pass
1**	0.198	31.33	9.42	53.69	22.36	AV	N	Pass
2	0.266	42.97	9.43	61.24	18.27	Peak	N	Pass
2**	0.266	28.33	9.43	51.24	22.91	AV	N	Pass
3	0.576	45.81	9.92	56.00	10.19	Peak	N	Pass
3**	0.576	29.57	9.92	46.00	16.43	AV	N	Pass
4	0.690	44.49	10.00	56.00	11.51	Peak	N	Pass
4**	0.690	28.00	10.00	46.00	18.00	AV	N	Pass
5	1.188	41.05	9.93	56.00	14.95	Peak	N	Pass
5**	1.188	24.37	9.93	46.00	21.63	AV	N	Pass
6	1.716	41.04	9.68	56.00	14.96	Peak	N	Pass
6**	1.716	25.02	9.68	46.00	20.98	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	/		☒

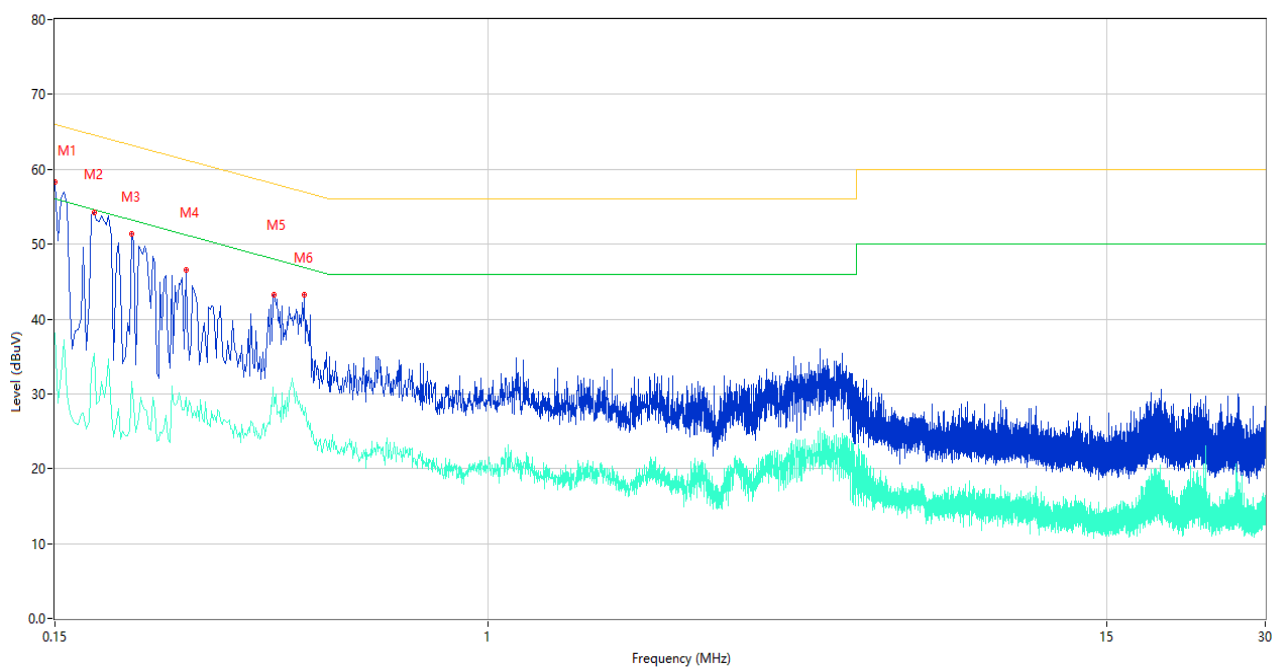
Test Mode 7

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	61.78	9.47	65.89	4.11	Peak	L	Pass
1**	0.152	44.77	9.47	55.89	11.12	AV	L	Pass
2	0.158	60.42	9.46	65.57	5.15	Peak	L	Pass
2**	0.158	40.42	9.46	55.57	15.15	AV	L	Pass
3	0.180	56.63	9.44	64.49	7.86	Peak	L	Pass
3**	0.180	37.12	9.44	54.49	17.37	AV	L	Pass
4	0.268	48.93	9.43	61.18	12.25	Peak	L	Pass
4**	0.268	29.37	9.43	51.18	21.81	AV	L	Pass
5	0.352	44.09	9.36	58.92	14.83	Peak	L	Pass
5**	0.352	29.39	9.36	48.92	19.53	AV	L	Pass
6	0.540	37.89	9.78	56.00	18.11	Peak	L	Pass
6**	0.540	24.45	9.78	46.00	21.55	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	58.34	9.47	66.00	7.66	Peak	N	Pass
1**	0.150	38.18	9.47	56.00	17.82	AV	N	Pass
2	0.178	54.29	9.44	64.58	10.29	Peak	N	Pass
2**	0.178	35.45	9.44	54.58	19.13	AV	N	Pass
3	0.210	51.35	9.42	63.21	11.86	Peak	N	Pass
3**	0.210	31.60	9.42	53.21	21.61	AV	N	Pass
4	0.266	46.59	9.43	61.24	14.65	Peak	N	Pass
4**	0.266	29.51	9.43	51.24	21.73	AV	N	Pass
5	0.392	43.29	9.90	58.02	14.73	Peak	N	Pass
5**	0.392	28.29	9.90	48.02	19.73	AV	N	Pass
6	0.446	43.19	9.94	56.95	13.76	Peak	N	Pass
6**	0.446	27.11	9.94	46.95	19.84	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-SZ2420033-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2420033-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2420033-AI.PDF”.

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--END OF REPORT--