

EMC

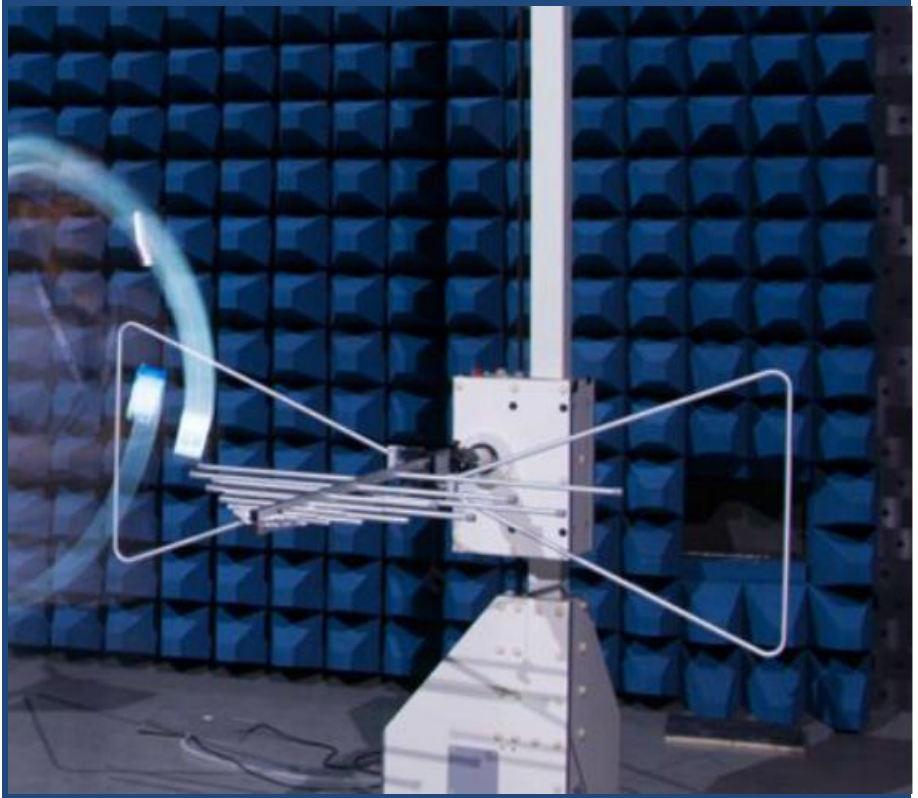
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile Phone

ISSUED TO
Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China



Tested by: Sijie Zheng

Sijie Zheng
Date Jan. 20, 2022

Approved by: Liao Jianming

Liao Jianming
(Technical Director)
Date Jan. 20, 2022

Report No.: BL-SZ2210074-401

EUT Name: Mobile Phone

Model Name: RMX3388

Brand Name: realme

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AUYFRMX3388

Test Conclusion: Pass

Test Date: Jan. 10, 2022 ~ Jan. 11, 2022

Date of Issue: Jan. 20, 2022

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jan. 20, 2022</u>	<u>Initial Issue</u>

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1 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
Fax Number	+86 755 6182 4271

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
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
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

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	30% to 60%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v7.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3388
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	2AA774
Software Version	realme UI V2.0
Dimensions (Approx.)	162.5*74.8*8.5 mm
Weight (Approx.)	188g

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	realme
	Model No.	BLP803
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic CO., LTD.
Ancillary Equipment 2	Li-Polymer Battery (alternative) 2	
	Brand Name	realme
	Model No.	BLP803
	Serial No.	N/A
	Capacitance	Rated: 4890mAh/18.92Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Huizhou Desay Battery Co., Ltd
Ancillary Equipment 3	Power Supply Unit(alternative) 1	
	Brand Name	realme
	Model No.	OP92JAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 0.5A
	Rated Output	5VDC 2A or 9VDC 2A (US Plug)
Ancillary Equipment 4	Power Supply Unit(alternative) 2	
	Brand Name	realme
	Model No.	OP92KAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 0.5A
	Rated Output	5VDC 2A or 9VDC 2A (US Plug)
Ancillary Equipment 5	Power Supply Unit(alternative) 3	
	Brand Name	realme
	Model No.	OP92CAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 0.5A
	Rated Output	5VDC 2A or 9VDC 2A (US Plug)
Ancillary Equipment 6	Power Supply Unit(alternative) 4	
	Brand Name	realme
	Model No.	OP92YAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 0.5A
	Rated Output	5VDC 2A or 9VDC 2A (US Plug)
Ancillary Equipment 7	USB Cable	

	Model No.	DL143
	Length (Approx.)	1.0 m
<p>Note 1: Letter in () means plug type.</p> <p>Note 2: All adapters are tested, only the worst data of OP92YAUH (US Plug) shown in this report.</p> <p>Note 3: All batteries are tested, only the worst data of BLP803 (Sunwoda) shown in this report.</p>		

2.6 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE 850/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5</p> <p>4G Network LTE FDD Band 2/4/5/7/12/17/26/66 LTE TDD Band 38/41</p> <p>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C</p> <p>5G Network SA: NR n5/n7/n38/n41</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, BDS, NFC</p>
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	1.3 GHz
About the Product	The equipment is mobile Phone, intended for used with information technology equipment.

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	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2

Note: Compared with the EUT of test report BL-SZ2120324-401, the changes of the EUT of this report as below:

1. Difference model name and CPU model name.
2. Adds 2 adapters, LED, 2 DC motors, and 1 speaker.
3. Remove a battery (Manufacturer: PT. BATTERY TECHNOLOGY INDONESIA).

Therefore, all items were retested in this report, but only the worst data was shown in this report.

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)	2.96 dB
Radiated emissions (30 MHz-1 GHz)	3.67 dB
Radiated emissions (1 GHz-18 GHz)	3.57 dB
Radiated emissions (18 GHz-40 GHz)	5.16 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	20°C to 25°C	AC 120 V/60 Hz	30% to 60%	100 kPa to 102 kPa

4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (10 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.08	2022.10.09	<input type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01	<input type="checkbox"/>
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2021.08.15	2024.08.14	<input type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input type="checkbox"/>

Radiated Emission Test For Frequency Below 1 GHz (3 m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY55330120	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2021.09.04	2024.09.03	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency Above 1 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY55330120	2021.10.20	2022.10.19	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2021.09.04	2024.09.03	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency Above 18 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE & SCHWARZ	FSV40	101544	2021.04.01	2022.03.31	<input checked="" type="checkbox"/>
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2021.01.05	2023.01.04	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2022.07.17	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2021.10.10	2022.10.09	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07	<input checked="" type="checkbox"/>
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2.8m	N/A	2021.08.14	2024.08.13	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

4.3 Test Enclosure list

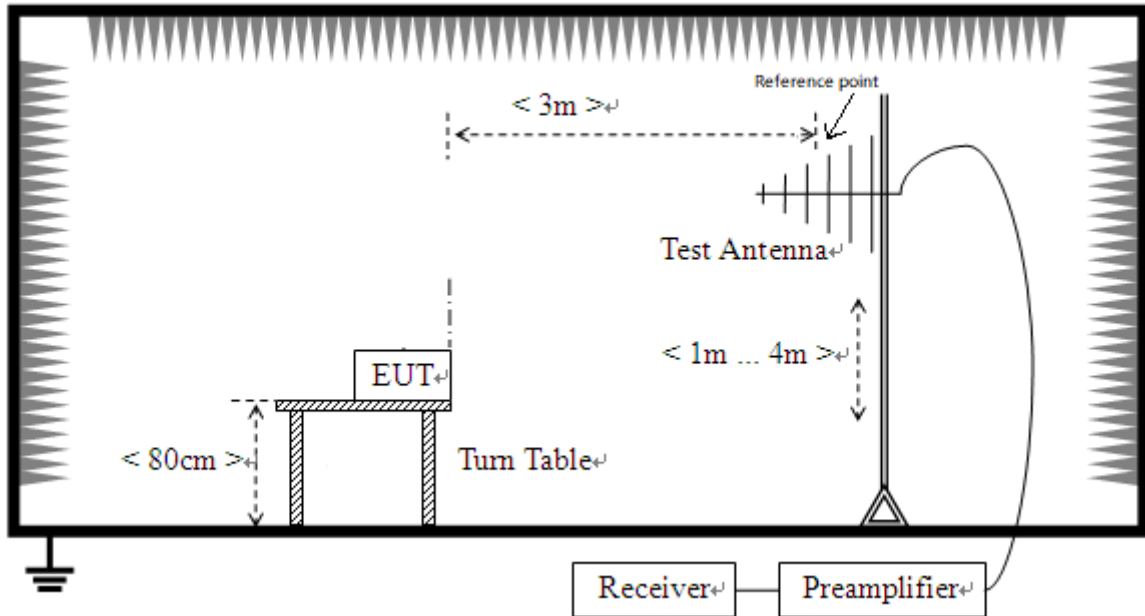
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	<input type="checkbox"/>
Laptop	Honor	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Laptop	Apple	A1465	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input type="checkbox"/>
Mouse	Logitech	M100	N/A	N/A	N/A	<input type="checkbox"/>
USB disk	Kingston	N/A	N/A	N/A	N/A	<input type="checkbox"/>
TF Card	Kingston	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	<input type="checkbox"/>
iPhone	Apple	A1586	N/A	N/A	N/A	<input type="checkbox"/>
Phone	MI	M4	N/A	N/A	N/A	<input type="checkbox"/>
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	<input type="checkbox"/>
Wireless Communications Test Set	R&S	CMW500	142028	N/A	Cal. Due 2022.05.31	<input checked="" type="checkbox"/>
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	<input type="checkbox"/>
Earphone	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Car Battery	Camel	55530	N/A	N/A	12 V/55 Ah	<input type="checkbox"/>
Artificial load	N/A	N/A	N/A	N/A	2.5 Ω/100 W	<input type="checkbox"/>
Artificial load	N/A	N/A	N/A	N/A	5 Ω/100 W	<input type="checkbox"/>
Electronic Load	ITECH	IT8511	N/A	N/A	N/A	<input type="checkbox"/>
USB Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>
DC Power Supply	ITECH	IT6863A	60001401068 7210006	N/A	N/A	<input type="checkbox"/>
LCD Monitor	SAMSUNG	UA32C4000P	N/A	N/A	N/A	<input type="checkbox"/>
LCD Monitor	Dell	U241HB	N/A	N/A	N/A	<input type="checkbox"/>
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	<input type="checkbox"/>

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The GSM 850 MHz RX Test Mode</u> GSM 850 MHz RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC02	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC03	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC04	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC05	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT +Adapter + USB Cable + Battery + TF Card +Earphone
TC06	<u>The FDD LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC07	<u>The FDD LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC08	<u>The n5 Test Mode</u> n5 RX + EUT +Adapter + USB Cable + Battery + TF Card + Earphone
TC09	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
TC10	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
TC11	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + TF Card + Earphone

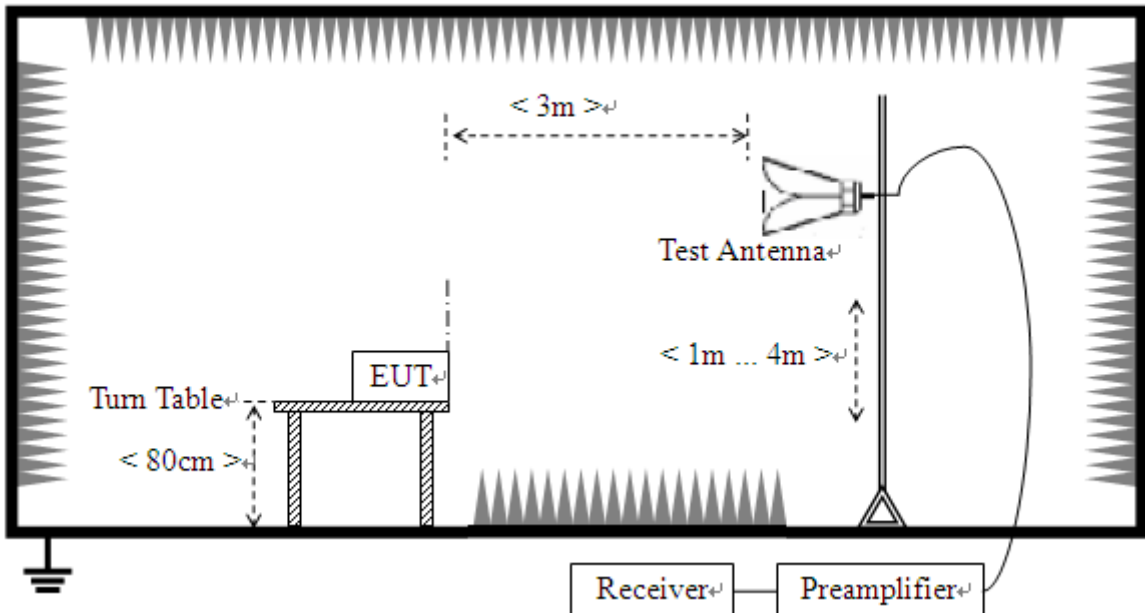
4.5 Test Setups

Test Setup 1



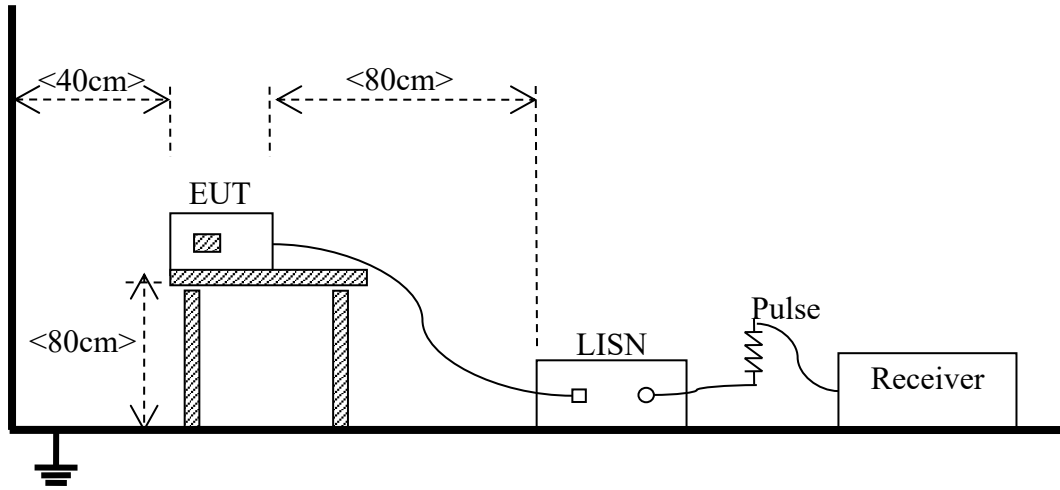
(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 2



(For Radiated Emission Test (above 1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Env.	NTNV
	Test Setup	Test Setup 1&2
	Test Configuration	TC01~TC011 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC011 ^{Note}

Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Camera Test Mode is the worst mode in this report.

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 B (at 10 m)	Class A (at 10 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

NOTE:

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

5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

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.

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.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results ($\text{dB}\mu\text{V/m}$) = Reading ($\text{dB}\mu\text{V/m}$) + 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. Over limit = Results – Limit.

5.1.2 Conducted Emission

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 4.5 section test (test setup 3) 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.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dBuV) = Reading (dBuV) + 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 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.

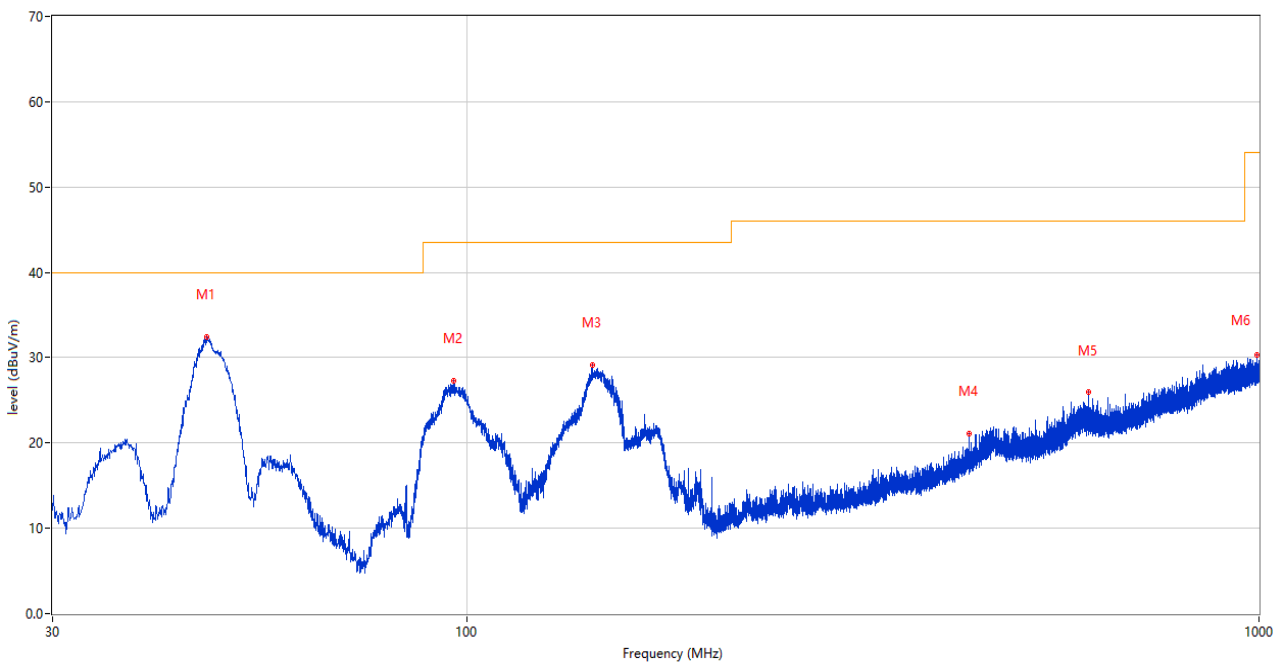
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

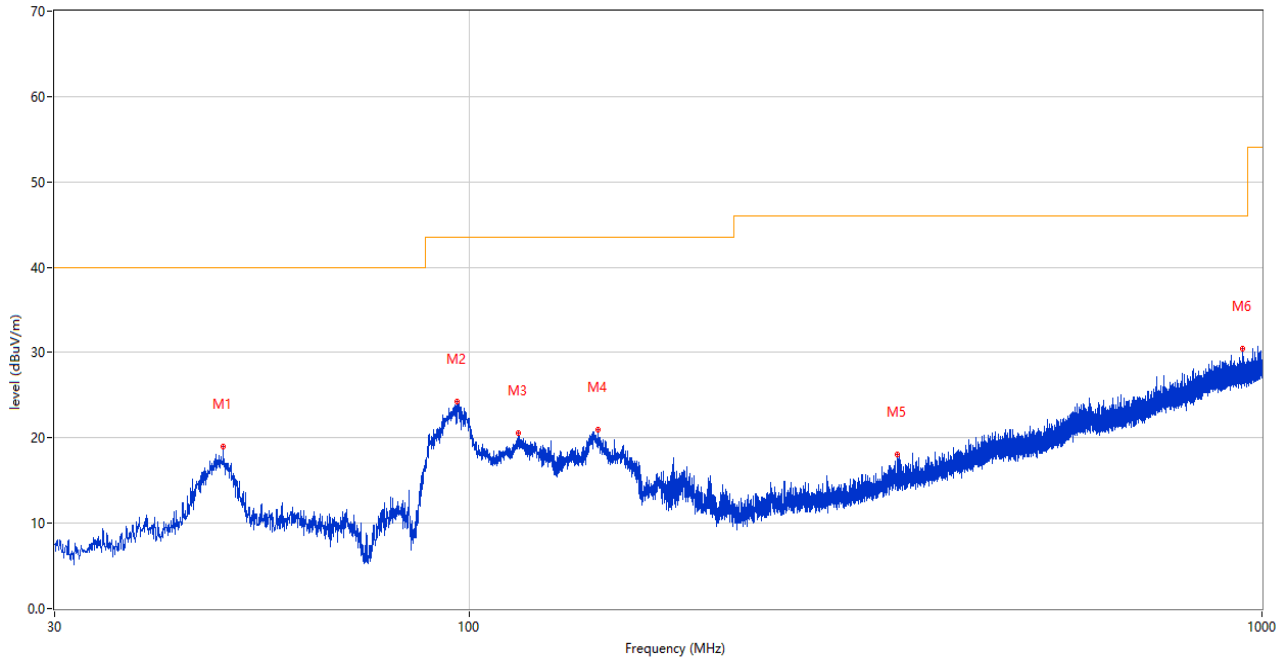
The Camera Test Mode

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



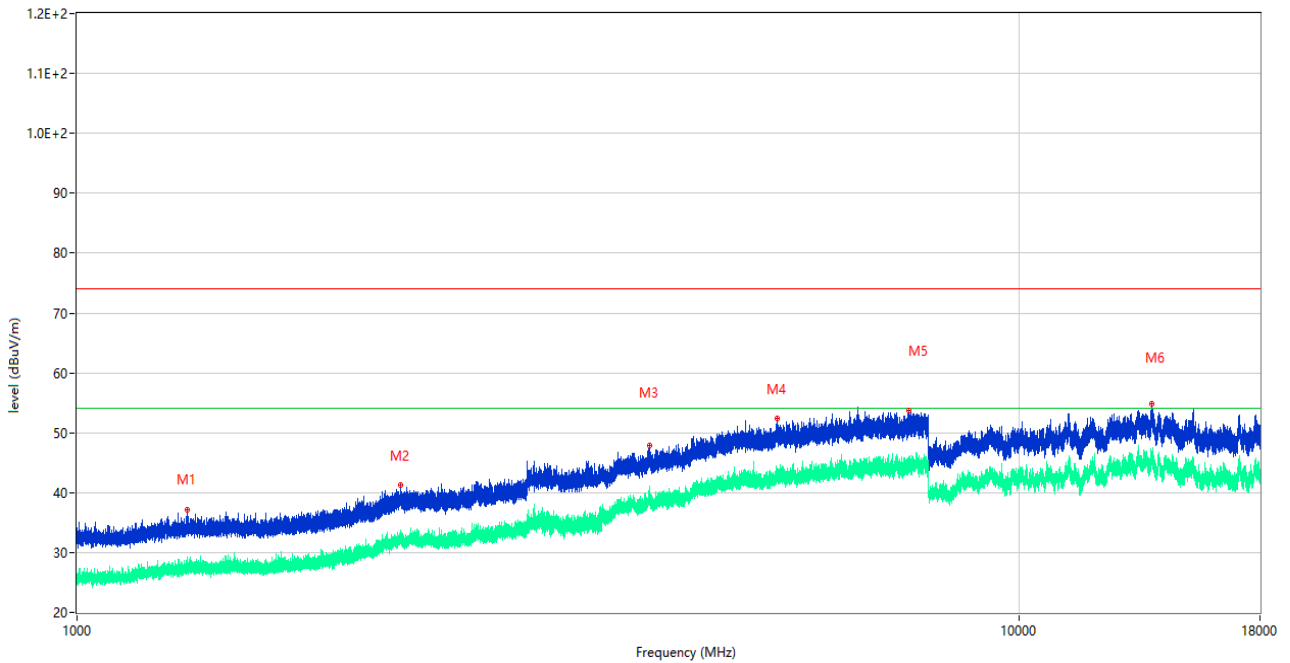
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.975	32.47	-25.55	40.0	-7.53	Peak	184.00	100	Vertical	Pass
2	96.348	27.27	-27.31	43.5	-16.23	Peak	340.00	100	Vertical	Pass
3	143.975	29.12	-30.24	43.5	-14.38	Peak	354.00	100	Vertical	Pass
4	430.319	21.08	-20.14	46.0	-24.92	Peak	52.00	100	Vertical	Pass
5	609.090	26.02	-15.68	46.0	-19.98	Peak	296.00	100	Vertical	Pass
6	994.519	30.30	-8.44	54.0	-23.70	Peak	177.00	100	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



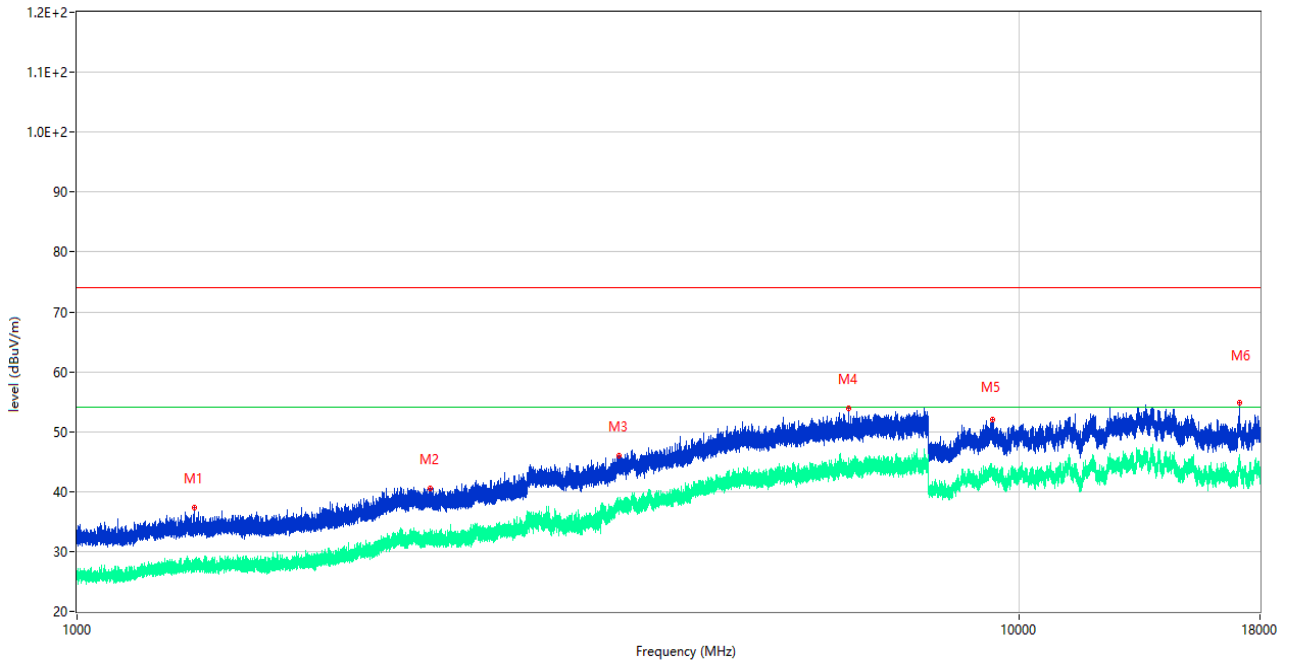
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.964	19.04	-25.38	40.0	-20.96	Peak	98.00	200	Horizontal	Pass
2	96.542	24.31	-27.28	43.5	-19.19	Peak	236.00	200	Horizontal	Pass
3	115.409	20.54	-27.50	43.5	-22.96	Peak	1.00	200	Horizontal	Pass
4	145.284	21.02	-30.21	43.5	-22.48	Peak	300.00	200	Horizontal	Pass
5	346.802	18.07	-22.06	46.0	-27.93	Peak	104.00	100	Horizontal	Pass
6	945.534	30.49	-9.49	46.0	-15.51	Peak	184.00	200	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1309.800	37.16	-16.34	74.0	-36.84	Peak	254.00	100	Vertical	Pass
1**	1309.800	27.84	-16.34	54.0	-26.16	AV	254.00	100	Vertical	Pass
2	2207.200	41.20	-12.16	74.0	-32.80	Peak	0.00	100	Vertical	Pass
2**	2207.200	32.07	-12.16	54.0	-21.93	AV	0.00	100	Vertical	Pass
3	4049.750	47.81	-1.89	74.0	-26.19	Peak	246.00	100	Vertical	Pass
3**	4049.750	39.32	-1.89	54.0	-14.68	AV	246.00	100	Vertical	Pass
4	5539.250	52.41	0.85	74.0	-21.59	Peak	234.00	100	Vertical	Pass
4**	5539.250	43.51	0.85	54.0	-10.49	AV	234.00	100	Vertical	Pass
5	7636.750	53.63	2.54	74.0	-20.37	Peak	198.00	100	Vertical	Pass
5**	7636.750	44.11	2.54	54.0	-9.89	AV	198.00	100	Vertical	Pass
6	13812.000	54.91	5.66	74.0	-19.09	Peak	173.00	100	Vertical	Pass
6**	13812.000	45.28	5.66	54.0	-8.72	AV	173.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz

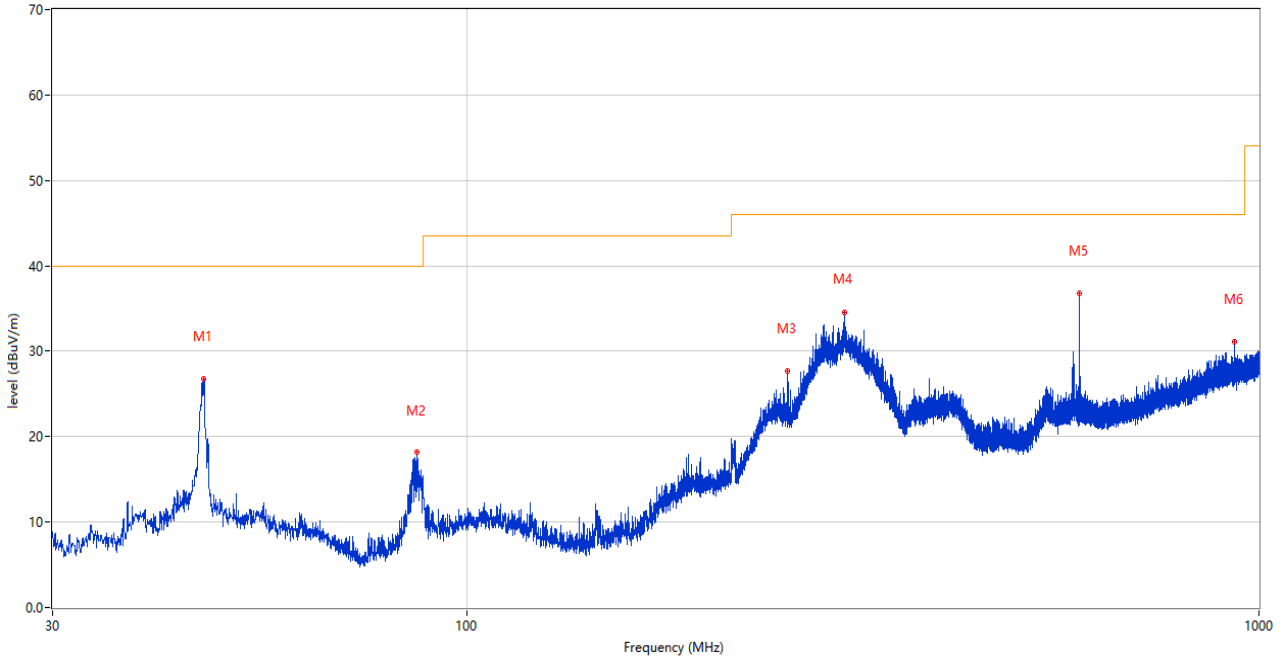


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.100	37.31	-16.76	74.0	-36.69	Peak	324.00	100	Horizontal	Pass
1**	1333.100	27.34	-16.76	54.0	-26.66	AV	324.00	100	Horizontal	Pass
2	2370.600	40.50	-11.01	74.0	-33.50	Peak	301.00	100	Horizontal	Pass
2**	2370.600	32.07	-11.01	54.0	-21.93	AV	301.00	100	Horizontal	Pass
3	3758.500	45.96	-3.01	74.0	-28.04	Peak	317.00	100	Horizontal	Pass
3**	3758.500	37.28	-3.01	54.0	-16.72	AV	317.00	100	Horizontal	Pass
4	6588.000	53.95	0.96	74.0	-20.05	Peak	162.00	100	Horizontal	Pass
4**	6588.000	45.59	0.96	54.0	-8.41	AV	162.00	100	Horizontal	Pass
5	9355.500	51.96	2.10	74.0	-22.04	Peak	0.00	100	Horizontal	Pass
5**	9355.500	43.95	2.10	54.0	-10.05	AV	0.00	100	Horizontal	Pass
6	17109.000	54.77	3.60	74.0	-19.23	Peak	291.00	100	Horizontal	Pass
6**	17109.000	44.46	3.60	54.0	-9.54	AV	291.00	100	Horizontal	Pass

Test Data and Plots

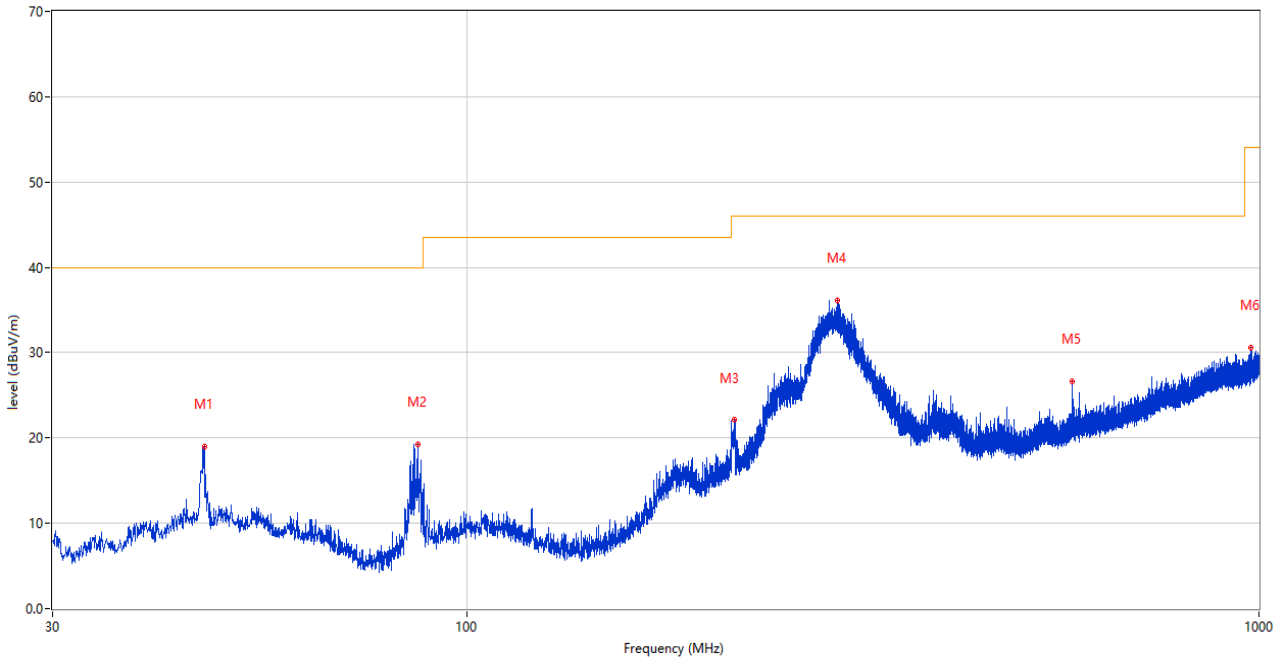
The USB Test Mode

A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



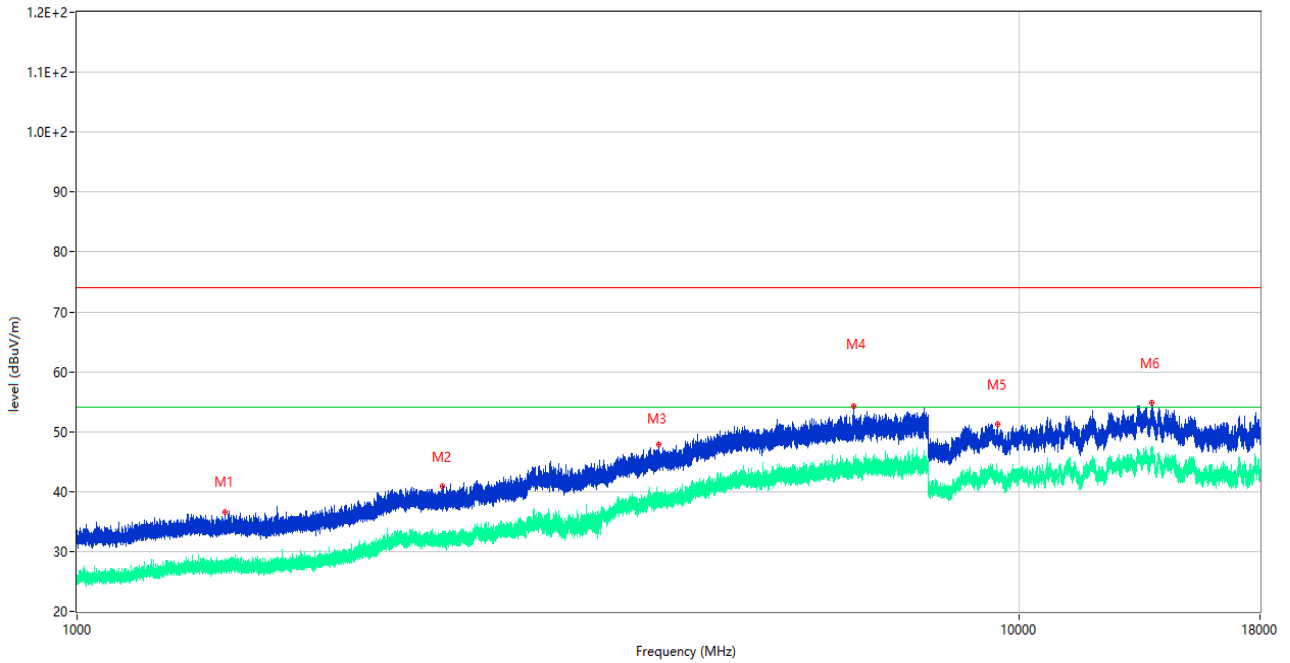
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.587	26.80	-25.56	40.0	-13.20	Peak	52.00	100	Vertical	Pass
2	86.503	18.14	-29.56	40.0	-21.86	Peak	0.00	100	Vertical	Pass
3	254.022	27.67	-24.71	46.0	-18.33	Peak	73.00	200	Vertical	Pass
4	299.854	34.50	-23.67	46.0	-11.50	Peak	360.00	200	Vertical	Pass
5	594.006	36.75	-16.07	46.0	-9.25	Peak	191.00	100	Vertical	Pass
6	931.518	31.11	-9.58	46.0	-14.89	Peak	30.00	200	Vertical	Pass

A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



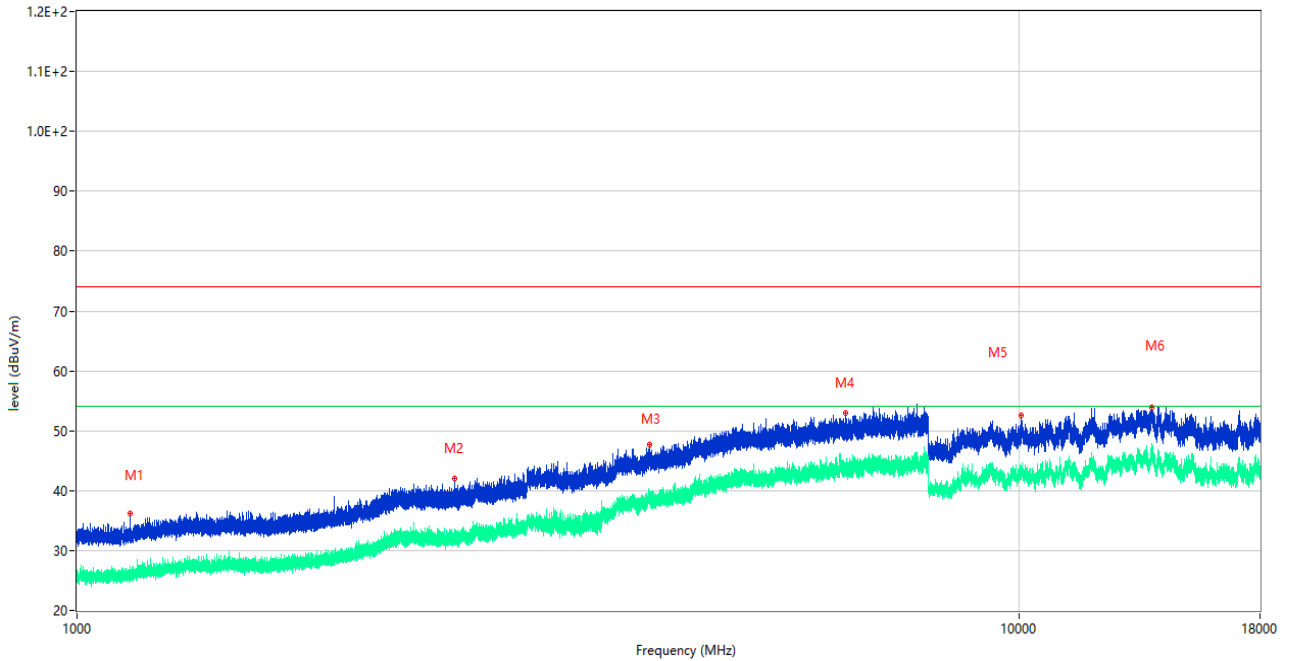
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.636	18.99	-25.56	40.0	-21.01	Peak	122.00	200	Horizontal	Pass
2	86.794	19.26	-29.45	40.0	-20.74	Peak	100.00	200	Horizontal	Pass
3	217.938	22.11	-26.33	46.0	-23.89	Peak	73.00	200	Horizontal	Pass
4	293.791	36.15	-23.83	46.0	-9.85	Peak	81.00	100	Horizontal	Pass
5	580.960	26.60	-16.59	46.0	-19.40	Peak	248.00	200	Horizontal	Pass
6	976.380	30.61	-8.69	54.0	-23.39	Peak	3.00	100	Horizontal	Pass

A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.100	36.59	-16.60	74.0	-37.41	Peak	37.00	100	Vertical	Pass
1**	1435.100	28.32	-16.60	54.0	-25.68	AV	37.00	100	Vertical	Pass
2	2441.100	40.88	-12.23	74.0	-33.12	Peak	164.00	100	Vertical	Pass
2**	2441.100	32.38	-12.23	54.0	-21.62	AV	164.00	100	Vertical	Pass
3	4142.750	47.94	-3.03	74.0	-26.06	Peak	126.00	100	Vertical	Pass
3**	4142.750	38.29	-3.03	54.0	-15.71	AV	126.00	100	Vertical	Pass
4	6674.250	54.26	1.32	74.0	-19.74	Peak	67.00	100	Vertical	Pass
4**	6674.250	44.95	1.32	54.0	-9.05	AV	67.00	100	Vertical	Pass
5	9477.500	51.27	1.32	74.0	-22.73	Peak	360.00	100	Vertical	Pass
5**	9477.500	42.34	1.32	54.0	-11.66	AV	360.00	100	Vertical	Pass
6	13822.500	54.77	5.52	74.0	-19.23	Peak	153.00	100	Vertical	Pass
6**	13822.500	46.09	5.52	54.0	-7.91	AV	153.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1138.200	36.22	-17.69	74.0	-37.78	Peak	225.00	100	Horizontal	Pass
1**	1138.200	26.22	-17.69	54.0	-27.78	AV	225.00	100	Horizontal	Pass
2	2519.100	42.07	-10.75	74.0	-31.93	Peak	37.00	100	Horizontal	Pass
2**	2519.100	32.71	-10.75	54.0	-21.29	AV	37.00	100	Horizontal	Pass
3	4046.500	47.62	-2.16	74.0	-26.38	Peak	343.00	100	Horizontal	Pass
3**	4046.500	39.44	-2.16	54.0	-14.56	AV	343.00	100	Horizontal	Pass
4	6531.500	52.94	1.30	74.0	-21.06	Peak	139.00	100	Horizontal	Pass
4**	6531.500	42.99	1.30	54.0	-11.01	AV	139.00	100	Horizontal	Pass
5	10049.000	52.49	2.66	74.0	-21.51	Peak	135.00	100	Horizontal	Pass
5**	10049.000	43.68	2.66	54.0	-10.32	AV	135.00	100	Horizontal	Pass
6	13812.500	53.90	5.65	74.0	-20.10	Peak	360.00	100	Horizontal	Pass
6**	13812.500	47.10	5.65	54.0	-6.90	AV	360.00	100	Horizontal	Pass

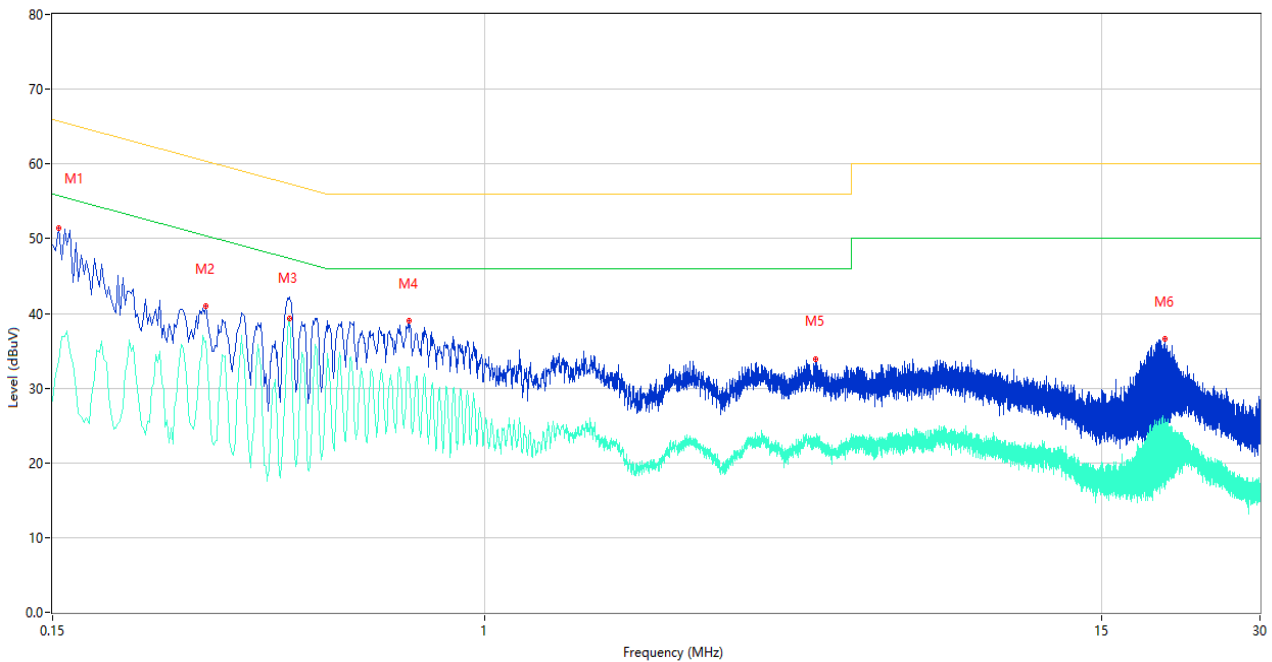
A.2 Conducted Emission

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.

Test Data and Plots

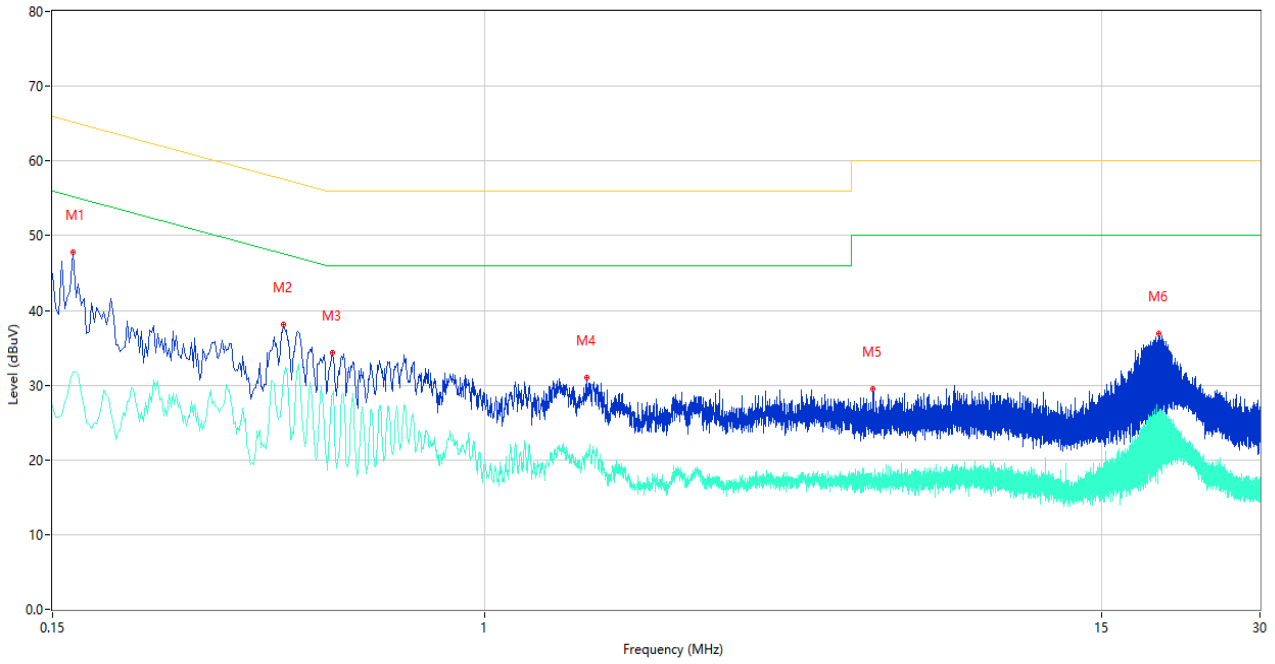
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.154	51.38	10.18	65.78	-14.40	Peak	L	Pass
1**	0.154	33.50	10.18	55.78	-22.28	AV	L	Pass
2	0.294	40.97	10.07	60.41	-19.44	Peak	L	Pass
2**	0.294	36.25	10.07	50.41	-14.16	AV	L	Pass
3	0.424	42.20	10.09	57.37	-15.17	Peak	L	Pass
3**	0.424	39.36	10.09	47.37	-8.01	AV	L	Pass
4	0.716	39.09	10.08	56.00	-16.91	Peak	L	Pass
4**	0.716	32.84	10.08	46.00	-13.16	AV	L	Pass
5	4.260	33.92	10.05	56.00	-22.08	Peak	L	Pass
5**	4.260	22.73	10.05	46.00	-23.27	AV	L	Pass
6	19.774	36.60	10.27	60.00	-23.40	Peak	L	Pass
6**	19.774	25.33	10.27	50.00	-24.67	AV	L	Pass

A.2.2 N Phase

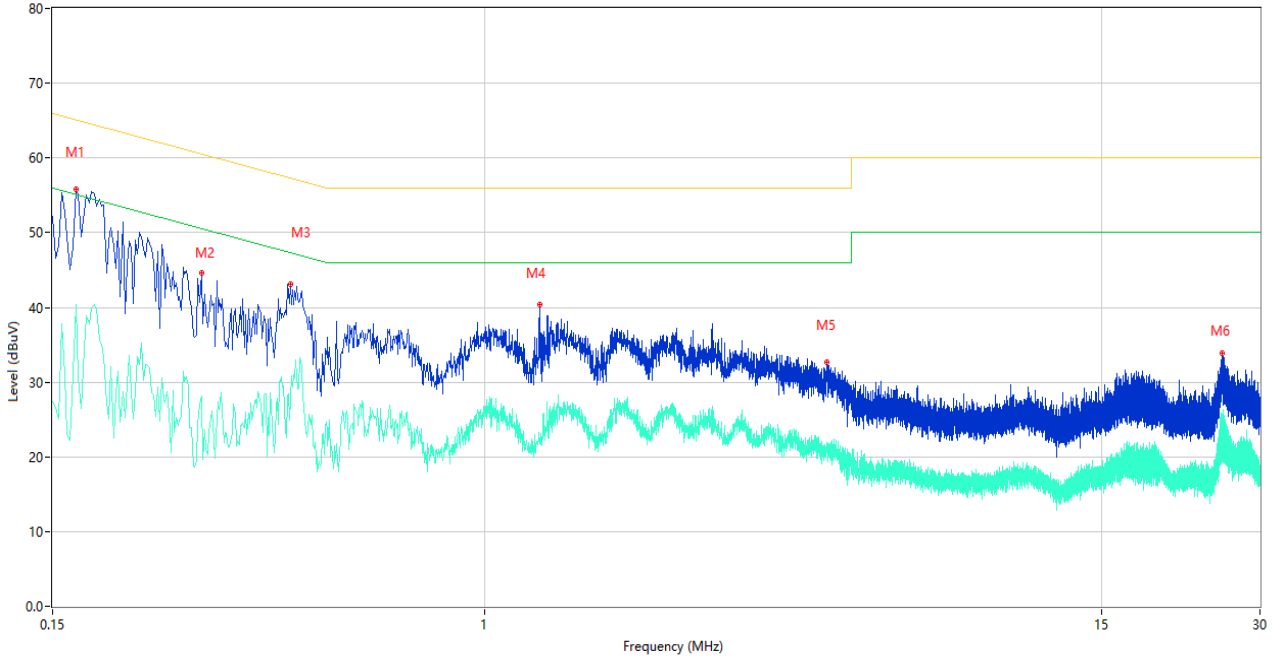


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.164	47.82	10.16	65.26	-17.44	Peak	N	Pass
1**	0.164	31.79	10.16	55.26	-23.47	AV	N	Pass
2	0.414	38.10	10.09	57.57	-19.47	Peak	N	Pass
2**	0.414	30.95	10.09	47.57	-16.62	AV	N	Pass
3	0.512	34.27	10.11	56.00	-21.73	Peak	N	Pass
3**	0.512	28.67	10.11	46.00	-17.33	AV	N	Pass
4	1.564	31.05	9.93	56.00	-24.95	Peak	N	Pass
4**	1.564	21.14	9.93	46.00	-24.86	AV	N	Pass
5	5.492	29.55	10.00	60.00	-30.45	Peak	N	Pass
5**	5.492	16.98	10.00	50.00	-33.02	AV	N	Pass
6	19.260	36.84	10.24	60.00	-23.16	Peak	N	Pass
6**	19.260	26.20	10.24	50.00	-23.80	AV	N	Pass

Test Data and Plots

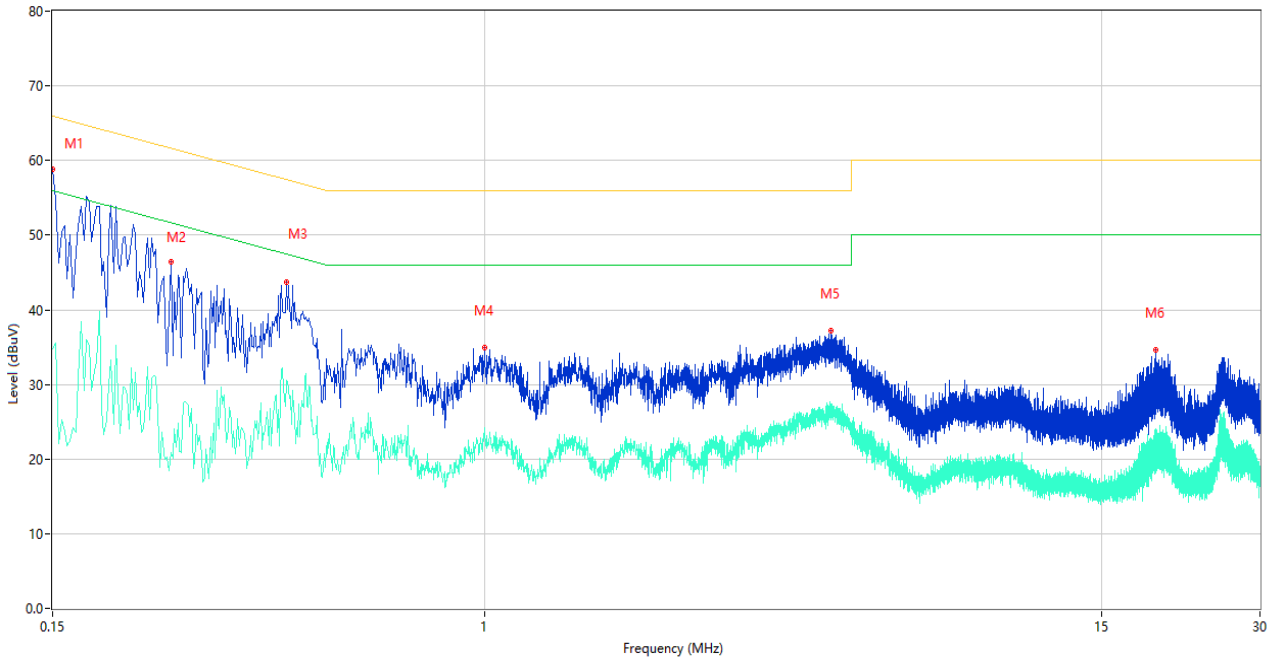
The USB Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.164	48.14	10.16	65.26	-17.12	Peak	L	Pass
1**	0.164	31.18	10.16	55.26	-24.08	AV	L	Pass
2	0.288	44.65	10.07	60.58	-15.93	Peak	L	Pass
2**	0.288	28.14	10.07	50.58	-22.44	AV	L	Pass
3	0.426	43.15	10.09	57.33	-14.18	Peak	L	Pass
3**	0.426	27.80	10.09	47.33	-19.53	AV	L	Pass
4	1.274	40.32	9.98	56.00	-15.68	Peak	L	Pass
4**	1.274	22.55	9.98	46.00	-23.45	AV	L	Pass
5	4.490	32.66	10.01	56.00	-23.34	Peak	L	Pass
5**	4.490	20.97	10.01	46.00	-25.03	AV	L	Pass
6	25.410	33.90	10.16	60.00	-26.10	Peak	L	Pass
6**	25.410	25.32	10.16	50.00	-24.68	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	58.83	10.19	66.00	-7.17	Peak	N	Pass
1**	0.150	34.76	10.19	56.00	-21.24	AV	N	Pass
2	0.252	46.36	10.08	61.69	-15.33	Peak	N	Pass
2**	0.252	20.86	10.08	51.69	-30.83	AV	N	Pass
3	0.418	43.78	10.09	57.49	-13.71	Peak	N	Pass
3**	0.418	30.56	10.09	47.49	-16.93	AV	N	Pass
4	0.998	34.94	10.03	56.00	-21.06	Peak	N	Pass
4**	0.998	24.12	10.03	46.00	-21.88	AV	N	Pass
5	4.556	37.14	10.00	56.00	-18.86	Peak	N	Pass
5**	4.556	27.36	10.00	46.00	-18.64	AV	N	Pass
6	18.982	34.63	10.22	60.00	-25.37	Peak	N	Pass
6**	18.982	21.92	10.22	50.00	-28.08	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2210074-AE-1.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2210074-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2210074-AI.PDF".

--END OF REPORT--