

FCC

EMC

TEST REPORT

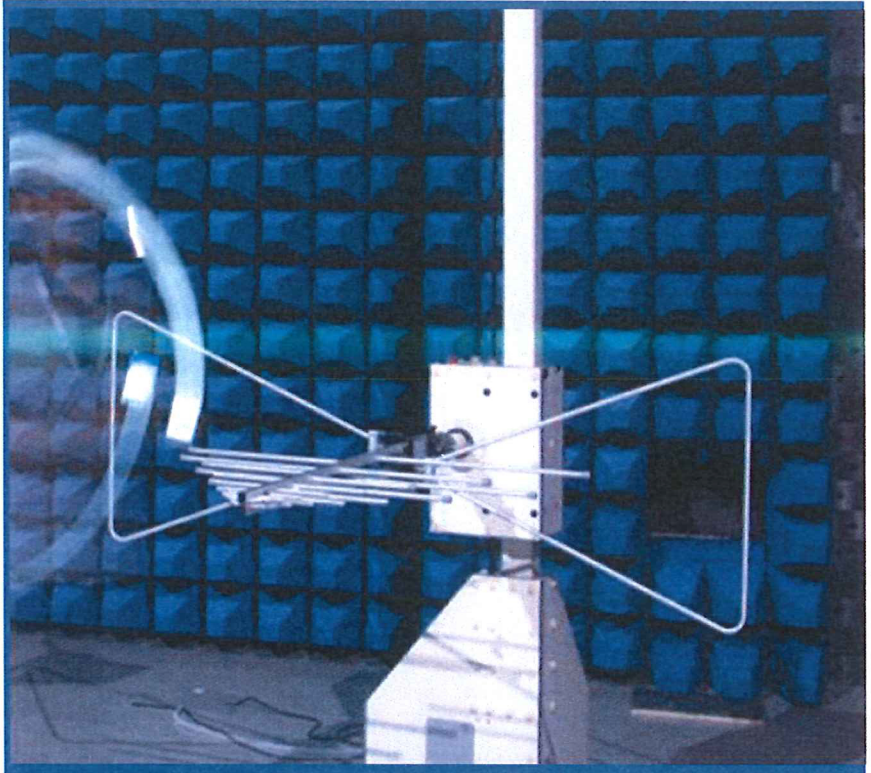
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile phone

ISSUED TO
Realfit(Shenzhen) Intelligent Technology Co., Ltd

Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen



Tested by: Xiong Chong
Xiong Chong
Date Apr. 23, 2021



Approved by: [Signature]
Wei Yanquan
(Chief Engineer)

Date Apr. 23, 2021

Report No.: BL-SZ2130939-401

EUT Name: Mobile phone

Model Name: DH2002

Brand Name: DIZO

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2AYPPDH2002

Test Conclusion: Pass

Test Date: Apr. 03, 2021 ~ Apr. 07, 2021

Date of Issue: Apr. 23, 2021

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Apr. 23, 2021</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
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	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report refer to the BALUN report mode v7.0.
- (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	Realfit(Shenzhen) Intelligent Technology Co., Ltd
Address	Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen

2.2 Manufacturer Information

Manufacturer	Realfit(Shenzhen) Intelligent Technology Co., Ltd
Address	Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai, Shenzhen

2.3 Factory Information

Factory	Sichuan Suge Communication Technology Co., Ltd.
Address	No.31, West gangyuan Road, Yibin Lingang Economic and Technological Development Zone, Yibin, Sichuan

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile phone
Model Name Under Test	DH2002
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V0.2
Software Version	dizo_DH2002_V1.6.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	DIZO
	Model No.	DH2002
	Serial No.	N/A
	Capacity	1830 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V
Ancillary Equipment 2	Adapter	
	Brand Name	DIZO
	Model No.	PA-5V550mA-005
	Serial No.	N/A
	Rated Input	100-240 V~, 0.15 A, 50/60 Hz
	Rated Output	5 V= 0.55 A

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM 850/1900 MHz Bluetooth
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	N/A
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3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-19 Edition)	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: The only difference between the test sample EUT in this report and the BL-SZ2110677-401, which was issued by Shenzhen BALUN Technology Co., Ltd. on Feb. 24, 2021 show as below:

1. Increase the number of flashlights.

And others hardware circuit and software were all the same. Therefore, all items were tested 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)	23°C to 25°C	AC 120 V/60 Hz or DC 3.7 V from battery	50% to 55%	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	2020.06.09	2021.06.08	<input type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-0883	2020.05.11	2022.05.10	<input type="checkbox"/>
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.08.08	2021.08.07	<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	MY53220118	2020.09.18	2021.09.17	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2021.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.27	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency 1 GHz-18 GHz						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2020.09.18	2021.09.17	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2021.07.01	<input checked="" type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	<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	2020.02.19	2021.02.18	<input type="checkbox"/>
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2021.01.05	2023.01.04	<input type="checkbox"/>
Anechoic Chamber	YIHENG	9m*6m*6m	N/A	2018.07.18	2021.07.17	<input type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2020.06.08	2021.06.07	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2020.06.09	2021.06.08	<input checked="" type="checkbox"/>
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.4m*3.1m*2.8m	N/A	2018.08.16	2021.08.15	<input checked="" type="checkbox"/>
Test Software	BALUN	BL410_E	V19.918	--	--	<input checked="" type="checkbox"/>

4.3 Test Enclosure list

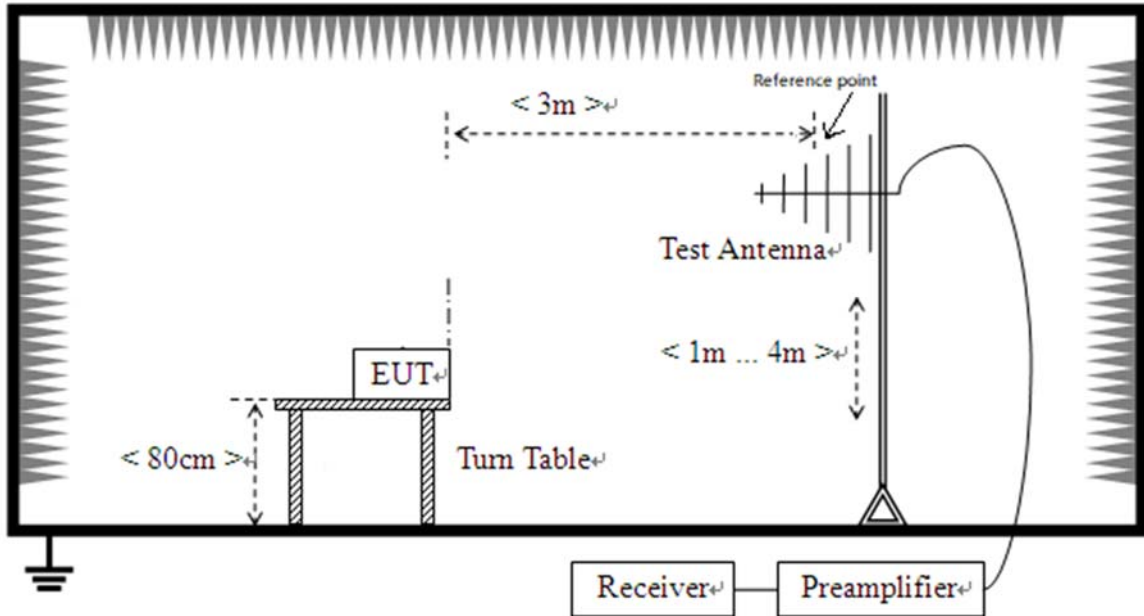
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	<input type="checkbox"/>
Laptop	Apple	A1465	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input 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 Communication s Test Set	R&S	CMW500	142028	N/A	Cal. Due 2021.06.08	<input type="checkbox"/>
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	<input type="checkbox"/>
Earphone	N/A	OPPO	N/A	1.1 m	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	1.0 m	Shielded with core	<input checked="" 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 Camera Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone
TC02	<u>The Video Play Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone
TC03	<u>The FM RX Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone + FM RX
TC04	<u>The GSM 850 RX Test Mode</u> EUT + Battery + Adapter + TF Card + Earphone + GSM 850 RX
TC05	<u>The USB Test Mode</u> EUT + Battery + TF Card + Earphone + USB Cable + Laptop

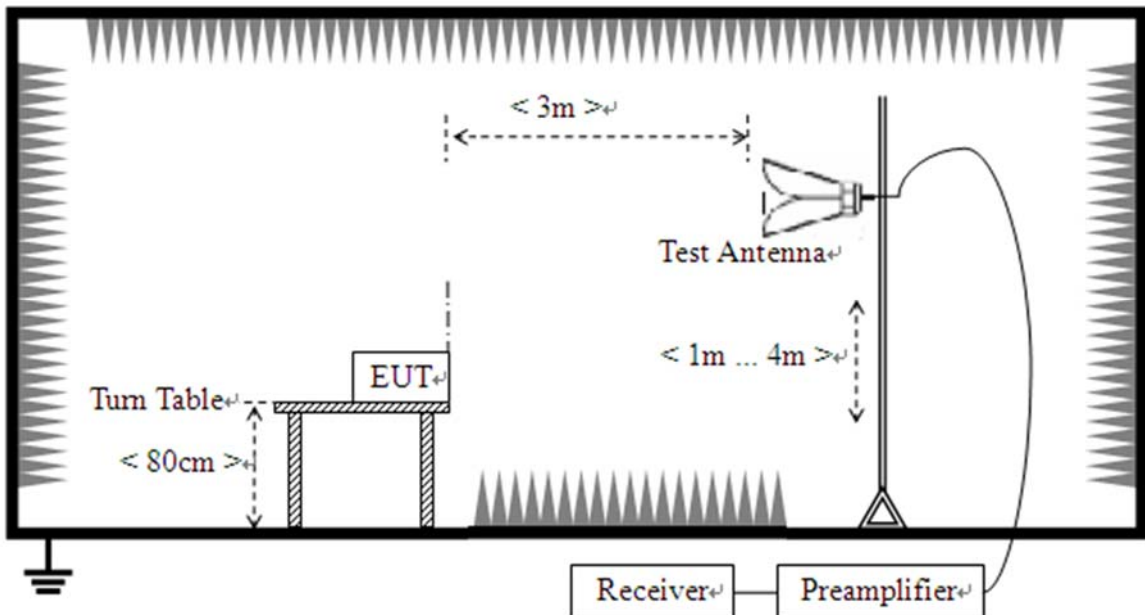
4.5 Test Setups

Test Setup 1



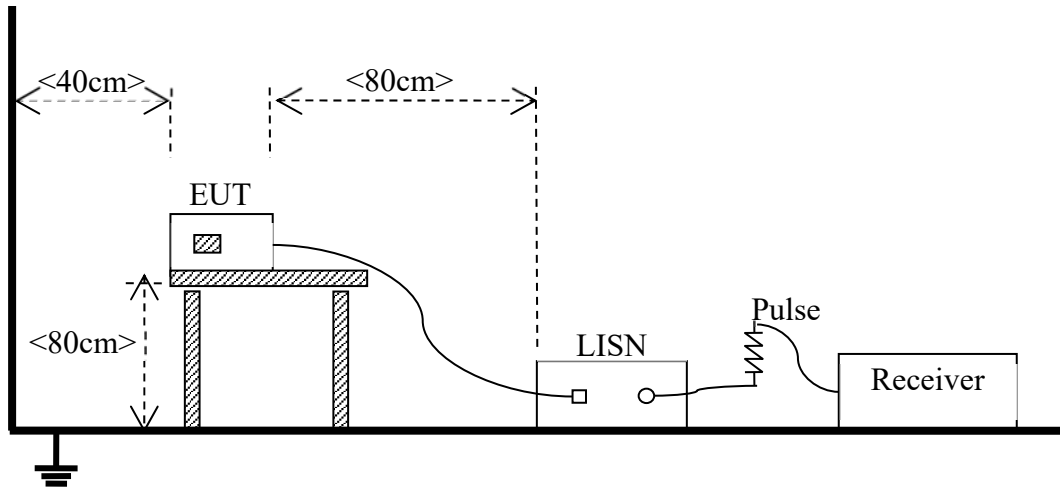
(For Radiated Emission Test (30 MHz-1 GHz))

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~TC05 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 3
	Test Configuration	TC01~TC05 ^{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 and The USB Test Mode are 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 ($\text{dB}\mu\text{V}$) + 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:

$$1. \text{ Results (dBuV/m)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

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

$$2. \text{ Factor} = \text{Insertion loss} + \text{Cable loss}$$

$$3. \text{ Over limit} = \text{Results} - \text{Limit.}$$

ANNEX A TEST RESULTS

A.1 Radiated Emission

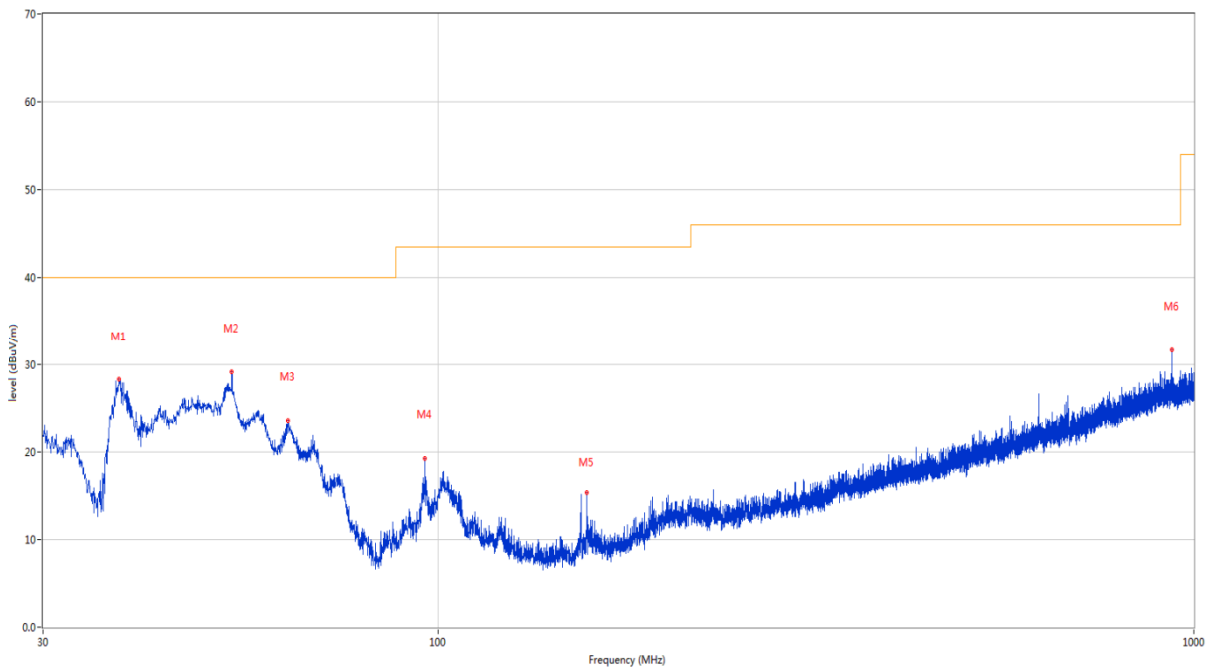
Note 1: The symbol of "--" in the table which means not application.

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.

Test Data and Plots

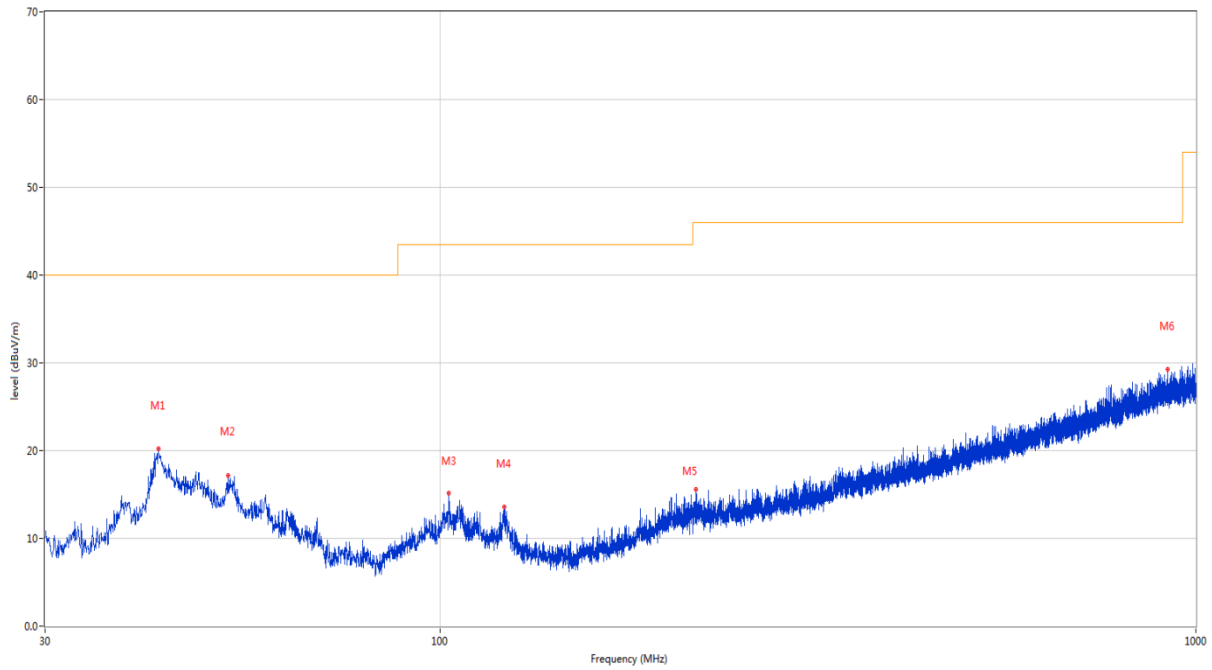
The Camera Test Mode

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



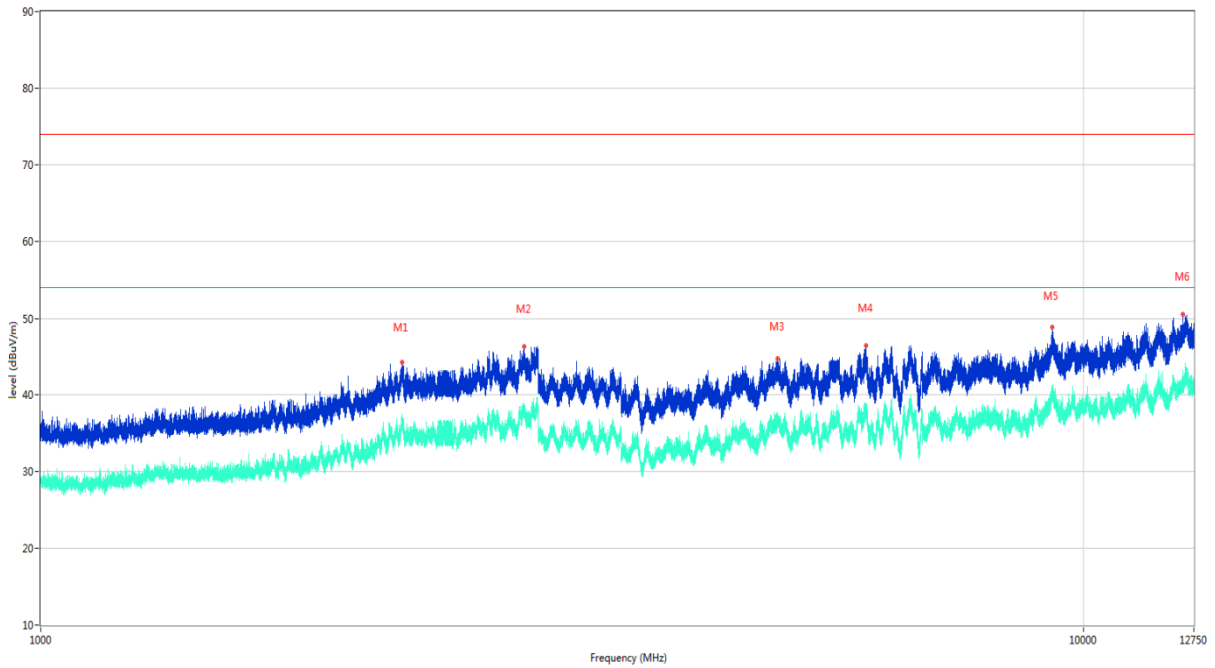
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.760	28.26	-24.52	40.0	-11.74	Peak	0.40	100	Vertical	Pass
2	53.328	29.19	-22.95	40.0	-10.81	Peak	0.00	100	Vertical	Pass
3	63.319	23.57	-24.82	40.0	-16.43	Peak	235.40	100	Vertical	Pass
4	96.057	19.24	-24.74	43.5	-24.26	Peak	201.70	100	Vertical	Pass
5	157.361	15.32	-27.61	43.5	-28.18	Peak	44.90	100	Vertical	Pass
6	936.028	31.72	-9.38	46.0	-14.28	Peak	2.00	100	Vertical	Pass

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



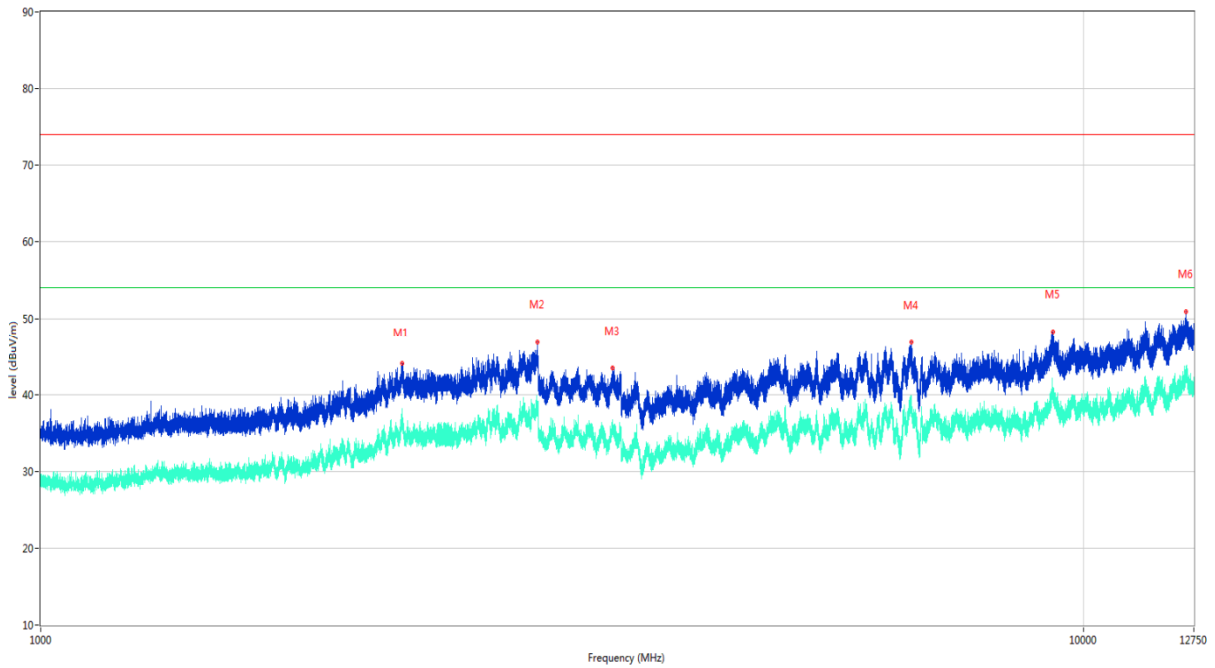
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.367	20.20	-23.43	40.0	-19.80	Peak	178.90	200	Horizontal	Pass
2	52.456	17.16	-23.09	40.0	-22.84	Peak	360.00	200	Horizontal	Pass
3	102.653	15.21	-24.47	43.5	-28.29	Peak	264.00	200	Horizontal	Pass
4	121.568	13.55	-25.85	43.5	-29.95	Peak	105.10	100	Horizontal	Pass
5	217.792	15.54	-24.11	46.0	-30.46	Peak	96.80	100	Horizontal	Pass
6	916.919	29.24	-9.55	46.0	-16.76	Peak	153.40	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	2222.300	44.11	-8.41	74.0	-29.89	Peak	305.80	100	Vertical	Pass
1**	2222.300	36.36	-8.41	54.0	-17.64	AV	305.80	100	Vertical	Pass
2	2908.400	46.19	-6.34	74.0	-27.81	Peak	227.30	100	Vertical	Pass
2**	2908.400	38.20	-6.34	54.0	-15.80	AV	227.30	100	Vertical	Pass
3	5090.000	44.61	-3.24	74.0	-29.39	Peak	300.90	100	Vertical	Pass
3**	5090.000	36.08	-3.24	54.0	-17.92	AV	300.90	100	Vertical	Pass
4	6181.600	46.28	-2.27	74.0	-27.72	Peak	0.00	100	Vertical	Pass
4**	6181.600	38.20	-2.27	54.0	-15.80	AV	0.00	100	Vertical	Pass
5	9319.838	48.80	20.33	74.0	-25.20	Peak	9.60	100	Vertical	Pass
5**	9319.838	39.98	20.33	54.0	-14.02	AV	9.60	100	Vertical	Pass
6	12439.788	50.57	21.51	74.0	-23.43	Peak	271.90	100	Vertical	Pass
6**	12439.788	41.49	21.51	54.0	-12.51	AV	271.90	100	Vertical	Pass

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

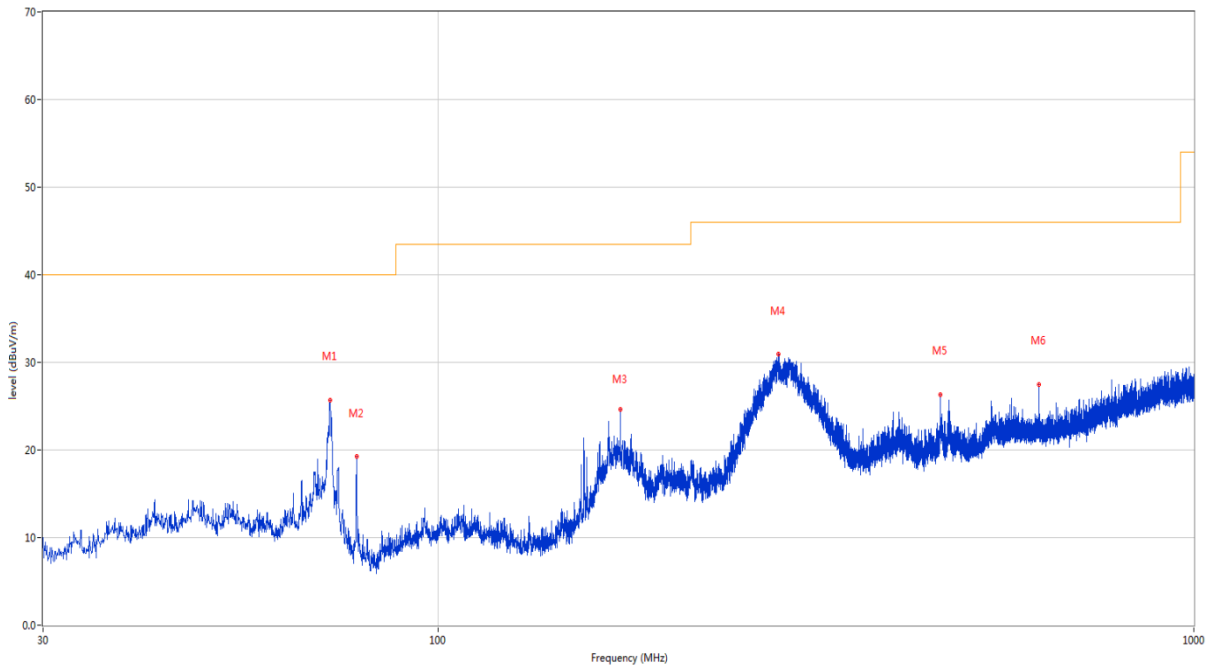


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2222.000	44.10	-8.39	74.0	-29.90	Peak	313.50	100	Horizontal	Pass
1**	2222.000	36.44	-8.39	54.0	-17.56	AV	313.50	100	Horizontal	Pass
2	2992.100	46.83	-5.38	74.0	-27.17	Peak	0.10	100	Horizontal	Pass
2**	2992.100	37.58	-5.38	54.0	-16.42	AV	0.10	100	Horizontal	Pass
3	3533.400	43.39	-6.66	74.0	-30.61	Peak	194.60	100	Horizontal	Pass
3**	3533.400	35.09	-6.66	54.0	-18.91	AV	194.60	100	Horizontal	Pass
4	6835.000	46.82	-1.92	74.0	-27.18	Peak	194.60	100	Horizontal	Pass
4**	6835.000	37.58	-1.92	54.0	-16.42	AV	194.60	100	Horizontal	Pass
5	9337.088	48.31	20.46	74.0	-25.69	Peak	243.60	100	Horizontal	Pass
5**	9337.088	39.90	20.46	54.0	-14.10	AV	243.60	100	Horizontal	Pass
6	12531.213	50.90	21.65	74.0	-23.10	Peak	35.30	100	Horizontal	Pass
6**	12531.213	41.81	21.65	54.0	-12.19	AV	35.30	100	Horizontal	Pass

Test Data and Plots

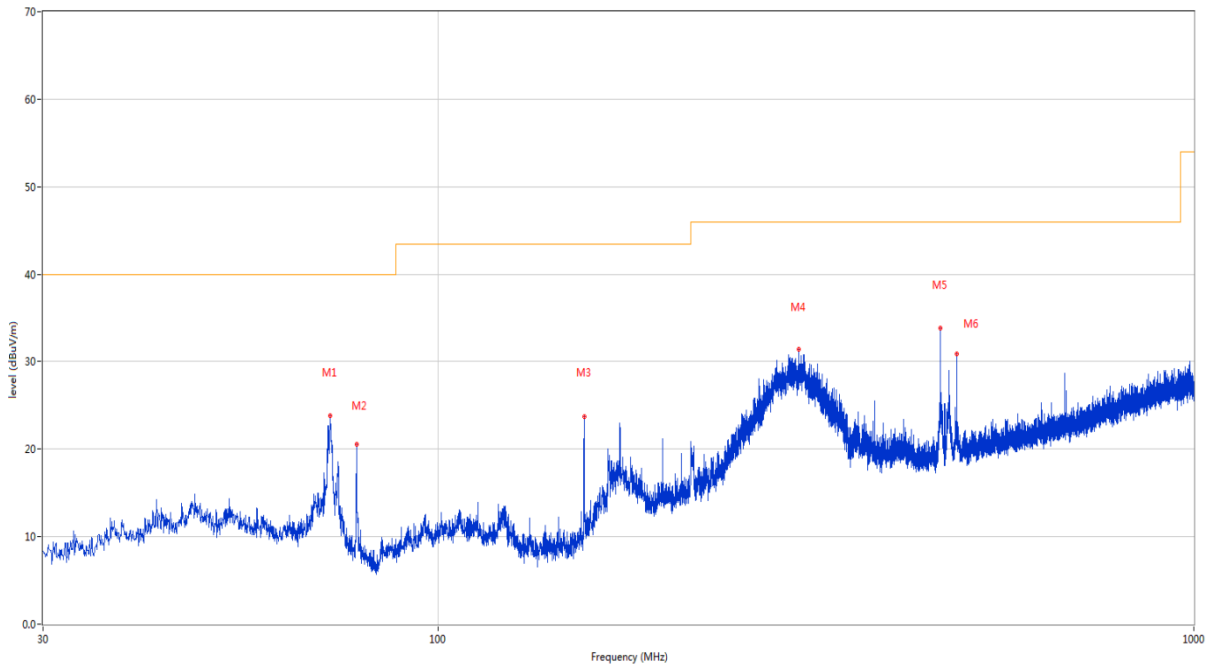
The USB Test Mode

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



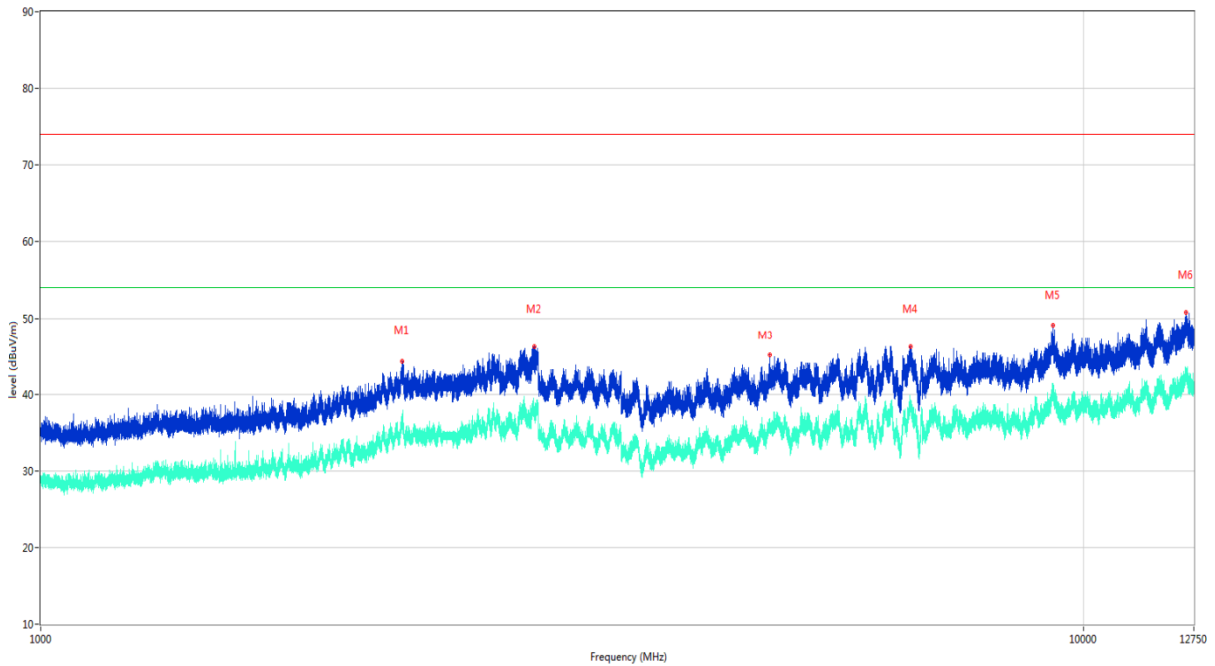
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	71.904	25.66	-28.22	40.0	-14.34	Peak	0.60	200	Vertical	Pass
2	78.015	19.29	-28.45	40.0	-20.71	Peak	2.00	200	Vertical	Pass
3	174.142	24.66	-26.54	43.5	-18.84	Peak	249.70	100	Vertical	Pass
4	281.861	30.91	-21.77	46.0	-15.09	Peak	10.40	200	Vertical	Pass
5	461.892	26.36	-17.75	46.0	-19.64	Peak	117.10	200	Vertical	Pass
6	624.028	27.49	-13.60	46.0	-18.51	Peak	346.00	100	Vertical	Pass

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



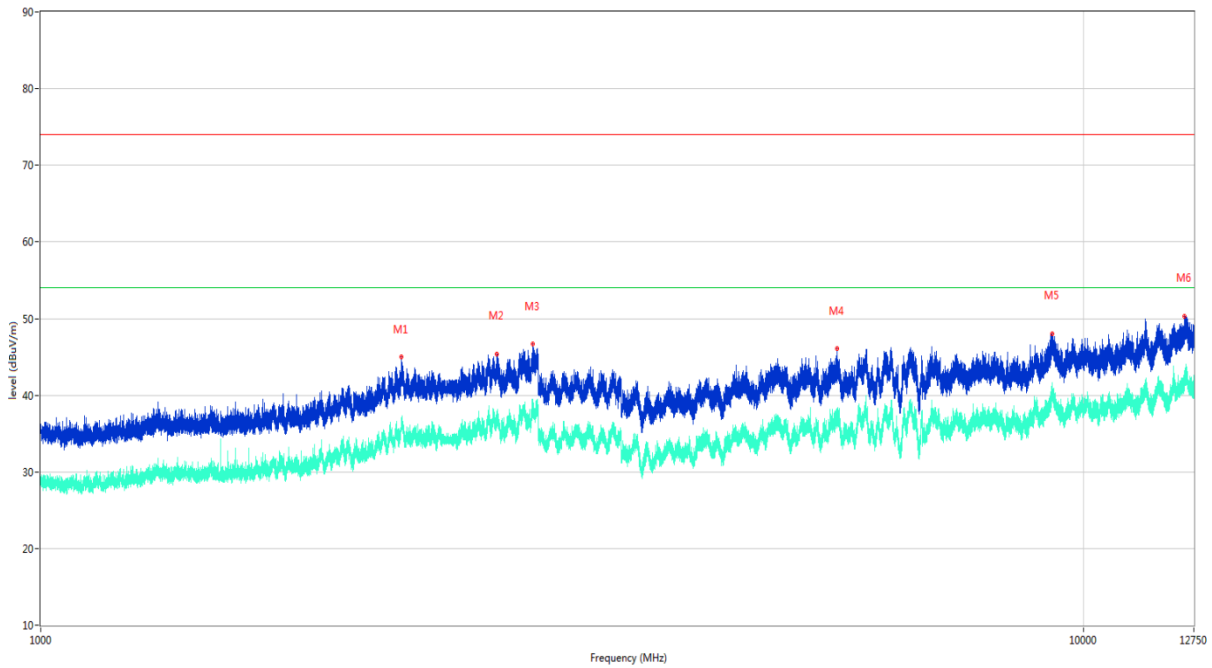
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.001	23.78	-28.26	40.0	-16.22	Peak	6.00	200	Horizontal	Pass
2	78.015	20.48	-28.45	40.0	-19.52	Peak	6.00	200	Horizontal	Pass
3	156.052	23.73	-27.41	43.5	-19.77	Peak	43.70	200	Horizontal	Pass
4	299.709	31.40	-21.93	46.0	-14.60	Peak	282.50	100	Horizontal	Pass
5	462.038	33.91	-17.72	46.0	-12.09	Peak	219.70	100	Horizontal	Pass
6	485.997	30.86	-16.95	46.0	-15.14	Peak	101.70	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	2221.300	44.24	-8.36	74.0	-29.76	Peak	38.00	100	Vertical	Pass
1**	2221.300	36.09	-8.36	54.0	-17.91	AV	38.00	100	Vertical	Pass
2	2971.600	46.27	-5.79	74.0	-27.73	Peak	159.00	100	Vertical	Pass
2**	2971.600	37.64	-5.79	54.0	-16.36	AV	159.00	100	Vertical	Pass
3	4997.200	45.13	-4.18	74.0	-28.87	Peak	40.40	100	Vertical	Pass
3**	4997.200	35.48	-4.18	54.0	-18.52	AV	40.40	100	Vertical	Pass
4	6829.200	46.23	-1.69	74.0	-27.77	Peak	285.20	100	Vertical	Pass
4**	6829.200	38.60	-1.69	54.0	-15.40	AV	285.20	100	Vertical	Pass
5	9340.826	49.04	20.39	74.0	-24.96	Peak	295.50	100	Vertical	Pass
5**	9340.826	39.70	20.39	54.0	-14.30	AV	295.50	100	Vertical	Pass
6	12542.137	50.75	21.71	74.0	-23.25	Peak	112.30	100	Vertical	Pass
6**	12542.137	42.16	21.71	54.0	-11.84	AV	112.30	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	2216.800	45.01	-8.53	74.0	-28.99	Peak	73.90	100	Horizontal	Pass
1**	2216.800	36.25	-8.53	54.0	-17.75	AV	73.90	100	Horizontal	Pass
2	2735.600	45.41	-6.86	74.0	-28.59	Peak	13.90	100	Horizontal	Pass
2**	2735.600	36.20	-6.86	54.0	-17.80	AV	13.90	100	Horizontal	Pass
3	2963.700	46.66	-5.15	74.0	-27.34	Peak	360.00	100	Horizontal	Pass
3**	2963.700	39.51	-5.15	54.0	-14.49	AV	360.00	100	Horizontal	Pass
4	5797.400	46.13	-2.84	74.0	-27.87	Peak	269.60	100	Horizontal	Pass
4**	5797.400	36.81	-2.84	54.0	-17.19	AV	269.60	100	Horizontal	Pass
5	9325.587	48.03	20.51	74.0	-25.97	Peak	360.00	100	Horizontal	Pass
5**	9325.587	40.00	20.51	54.0	-14.00	AV	360.00	100	Horizontal	Pass
6	12491.537	50.32	21.10	74.0	-23.68	Peak	271.50	100	Horizontal	Pass
6**	12491.537	41.15	21.10	54.0	-12.85	AV	271.50	100	Horizontal	Pass

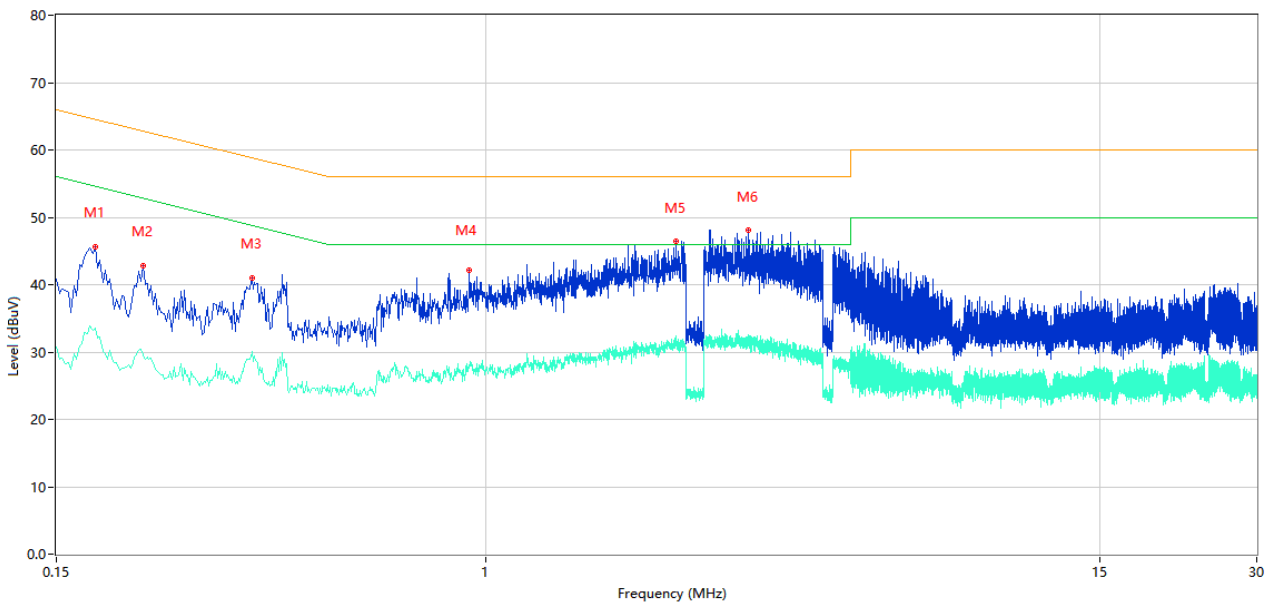
A.2 Conducted Emission

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 (240 VAC, 50 Hz) shown here.

Test Data and Plots

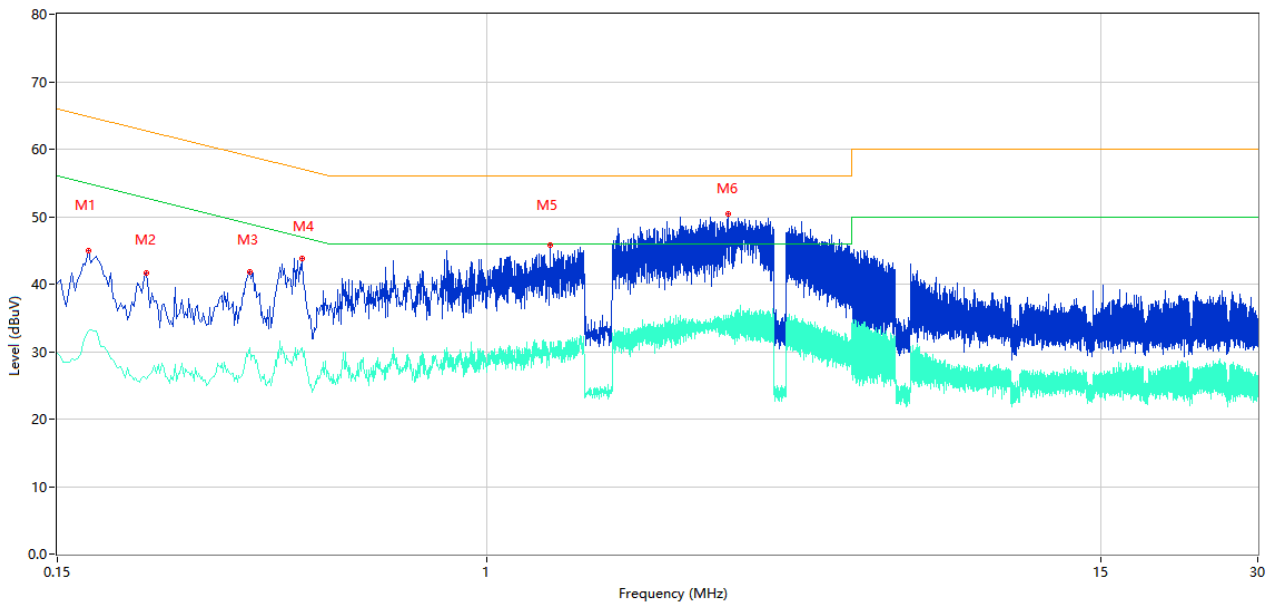
The Camera Test Mode

A.2.1 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.178	45.67	10.39	64.58	-18.91	Peak	L	Pass
1**	0.178	33.51	10.39	54.58	-21.07	AV	L	Pass
2	0.220	42.86	10.37	62.82	-19.96	Peak	L	Pass
2**	0.220	29.66	10.37	52.82	-23.16	AV	L	Pass
3	0.356	41.04	10.31	58.82	-17.78	Peak	L	Pass
3**	0.356	30.11	10.31	48.82	-18.71	AV	L	Pass
4	0.928	42.08	10.24	56.00	-13.92	Peak	L	Pass
4**	0.928	27.64	10.24	46.00	-18.36	AV	L	Pass
5	2.314	46.49	10.27	56.00	-9.51	Peak	L	Pass
5**	2.314	32.47	10.27	46.00	-13.53	AV	L	Pass
6	3.182	48.02	10.28	56.00	-7.98	Peak	L	Pass
6**	3.182	32.64	10.28	46.00	-13.36	AV	L	Pass

A.2.2 N Phase

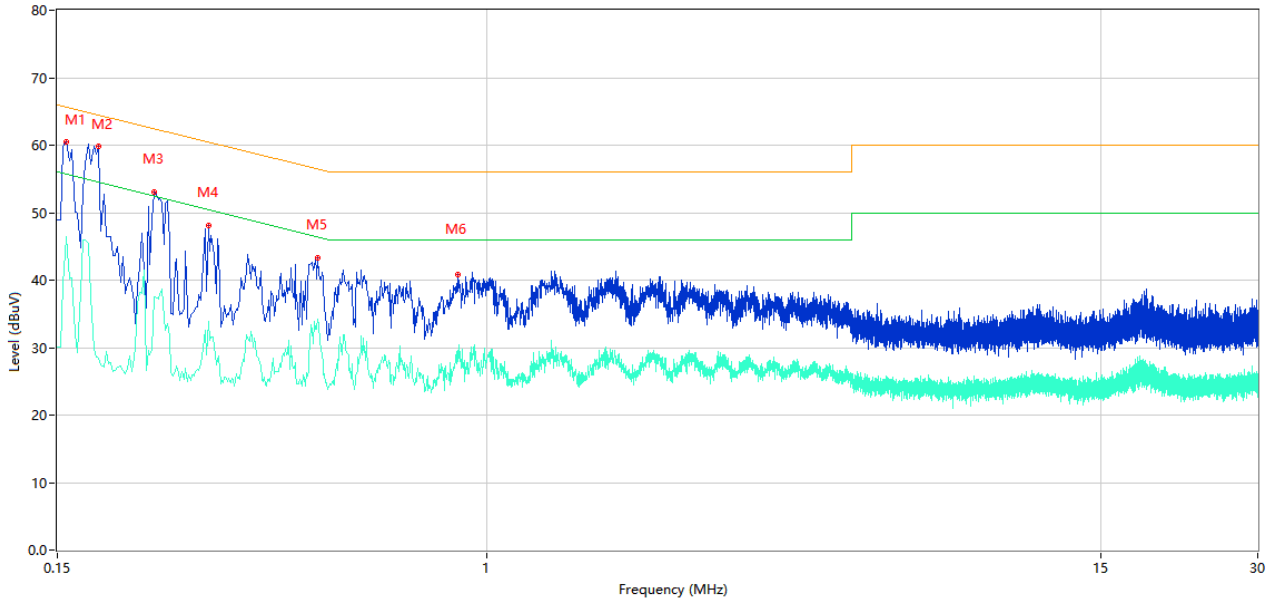


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	44.98	10.40	64.86	-19.88	Peak	N	Pass
1**	0.172	32.99	10.40	54.86	-21.87	AV	N	Pass
2	0.222	41.64	10.37	62.74	-21.10	Peak	N	Pass
2**	0.222	25.98	10.37	52.74	-26.76	AV	N	Pass
3	0.350	41.86	10.32	58.96	-17.10	Peak	N	Pass
3**	0.350	30.54	10.32	48.96	-18.42	AV	N	Pass
4	0.442	43.82	10.31	57.02	-13.20	Peak	N	Pass
4**	0.442	30.65	10.31	47.02	-16.37	AV	N	Pass
5	1.322	45.83	10.24	56.00	-10.17	Peak	N	Pass
5**	1.322	31.41	10.24	46.00	-14.59	AV	N	Pass
6	2.902	50.37	10.28	56.00	-5.63	Peak	N	Pass
6**	2.902	33.38	10.28	46.00	-12.62	AV	N	Pass

Test Data and Plots

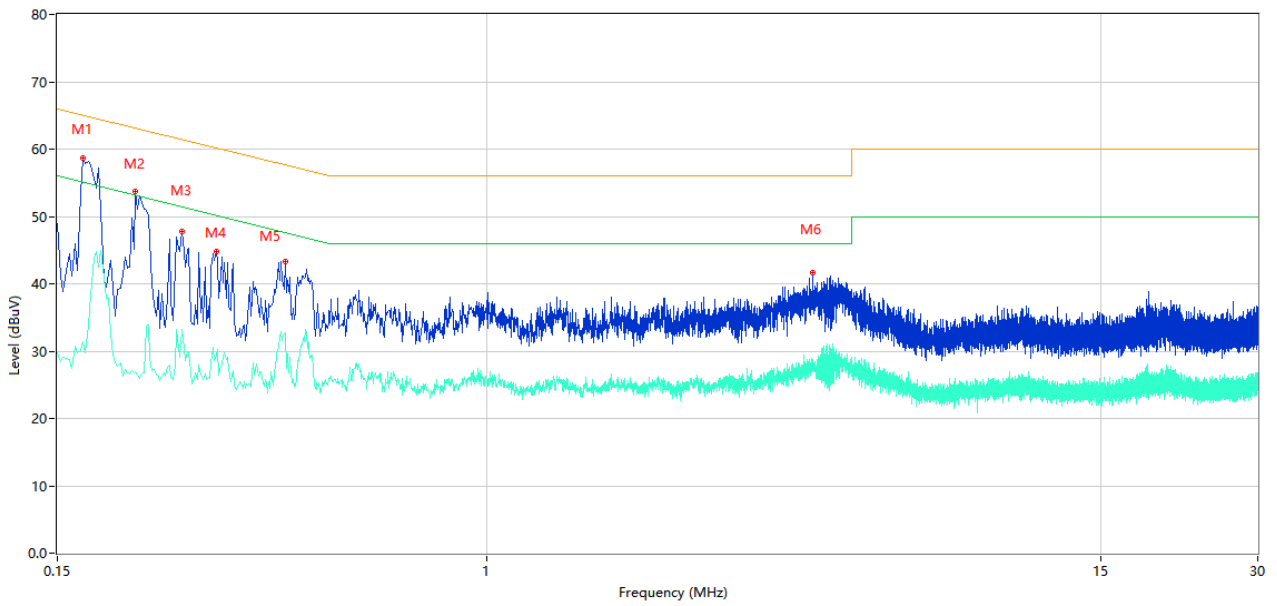
The USB Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	60.44	10.41	65.67	-5.23	Peak	L	Pass
1**	0.156	46.47	10.41	55.67	-9.20	AV	L	Pass
2	0.180	59.90	10.39	64.49	-4.59	Peak	L	Pass
2**	0.180	28.44	10.39	54.49	-26.05	AV	L	Pass
3	0.230	53.07	10.36	62.45	-9.38	Peak	L	Pass
3**	0.230	37.46	10.36	52.45	-14.99	AV	L	Pass
4	0.292	48.07	10.34	60.47	-12.40	Peak	L	Pass
4**	0.292	33.85	10.34	50.47	-16.62	AV	L	Pass
5	0.474	43.28	10.30	56.44	-13.16	Peak	L	Pass
5**	0.474	34.21	10.30	46.44	-12.23	AV	L	Pass
6	0.880	40.76	10.25	56.00	-15.24	Peak	L	Pass
6**	0.880	28.75	10.25	46.00	-17.25	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.168	58.68	10.40	65.06	-6.38	Peak	N	Pass
1**	0.168	31.46	10.40	55.06	-23.60	AV	N	Pass
2	0.212	53.65	10.38	63.13	-9.48	Peak	N	Pass
2**	0.212	26.89	10.38	53.13	-26.24	AV	N	Pass
3	0.260	47.83	10.34	61.43	-13.60	Peak	N	Pass
3**	0.260	33.22	10.34	51.43	-18.21	AV	N	Pass
4	0.302	44.71	10.33	60.19	-15.48	Peak	N	Pass
4**	0.302	29.42	10.33	50.19	-20.77	AV	N	Pass
5	0.410	43.37	10.31	57.65	-14.28	Peak	N	Pass
5**	0.410	32.66	10.31	47.65	-14.99	AV	N	Pass
6	4.206	41.63	10.31	56.00	-14.37	Peak	N	Pass
6**	4.206	27.17	10.31	46.00	-18.83	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2130939-AE.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2130939-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2130939-AI.PDF".

--END OF REPORT--