

FCC

EMC

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile Phone

ISSUED TO
GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP., LTD

NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN,
GUANGDONG, CHINA



Tested by: Zhang Yanqing
Zhang Yanqing
(Engineer)

Date Sep. 14, 2015

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date Sep. 14, 2015

Report No.: BL-SZ1570289-401

EUT Type: Mobile Phone

Model Name: OPPO R7sf

Brand Name: OPPO

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: R9C-R7SF

Test conclusion: Pass

Test Date: Aug. 20, 2015 ~ Aug. 23, 2015

Date of Issue: Sep. 14, 2015

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 14, 2015</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 6683 3402
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	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
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 Announce

- (1) The test report reference to the report template version v1.1.
- (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.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD
Address	NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG, CHINA

2.2 Manufacturer

Manufacturer	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD
Address	NO.18 HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG, CHINA

2.3 General Description for Equipment under Test (EUT)

EUT Type	Mobile Phone
Model Name	OPPO R7sf
Hardware Version	11
Software Version	ColorOS V2.1.0i
The Highest Speed of Processor	1.5GHz / 1.0GHz
Network and Wireless connectivity	2G Network GSM/GPRS/EDEG Band 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band I/II/IV/V/VIII FDD-LTE: Bands 1/2/4/7/17 Bluetooth, WIFI, GPS, GLONASS
About the Product	The equipment is mobile phone, intended for used with information technology equipment.

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	OPPO
	Model No	BLP603
	Serial No	N/A
	Capacitance	2980 mAh
	Rated Voltage	3.8 V
	Extreme Voltage	Low: 3.6 V / High: 4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	OPPO
	Model No	AK775
	Serial No	N/A
	Rated Input	100-240 V~, 0.6 A, 50/60 Hz
	Rated Output	5 V = 2 A or 5 V = 4 A for VOOC Flash Charger
Ancillary Equipment 3	Earphone	
	Length	1.1 m
Ancillary Equipment 4	USB Data Cable	
	Length	1.0 m

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B (10-1-14 Edition)	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for 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

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)	2.79 dB
Radiated emissions (30 MHz-1 GHz)	3.45 dB
Radiated emissions (1 GHz-18 GHz)	3.67 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~26°C	AC 110 V/60 Hz	50%-55%	100 to 102 kPa

4.2 Test Equipment List

Radiated Emission Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21	<input checked="" type="checkbox"/>
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.01	2017.06.30	<input type="checkbox"/>
Anechoic Chamber	RAINFORD	9 m*6 m*6 m	N/A	2015.02.28	2016.02.27	<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2015.07.14	2016.07.13	<input checked="" type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-509	2015.07.14	2016.07.13	<input type="checkbox"/>
AMN	SCHWARZBECK	NNBM8124	8124-510	2015.07.14	2016.07.13	<input type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2015.07.14	2016.07.13	<input type="checkbox"/>
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A	<input checked="" type="checkbox"/>

4.3 Test Enclosure list

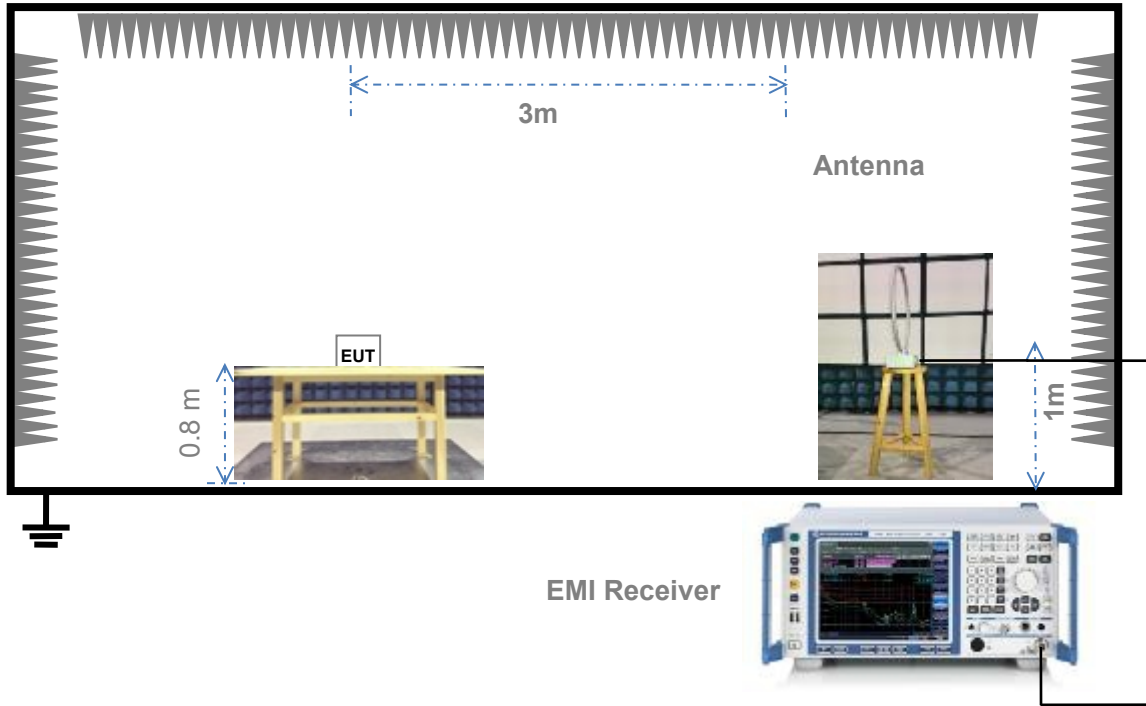
Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	N/A	N/A	N/A	N/A	Special Handled	<input type="checkbox"/>
Printer	HP	DESKJET 1000	N/A	N/A	N/A	<input type="checkbox"/>
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	<input type="checkbox"/>
Mouse	Logitech	M100	N/A	N/A	N/A	<input type="checkbox"/>
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"/>
Phone	APPLE	A1387	N/A	N/A	N/A	<input type="checkbox"/>
Laptop	LENOVO	K29	N/A	N/A	N/A	<input checked="" type="checkbox"/>

4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<p><u>The USB Test mode</u></p> <p>The EUT configuration of the emission tests is TransFlash Card + EUT + Battery + Laptop + Earphone.</p> <p>During the measurement, the EUT with a TransFlash Card is connected with the laptop via a USB cable, the data is transmitting between the laptop and the TransFlash Card of the EUT.</p>
TC02	<p><u>The Camera test mode</u></p> <p>The EUT configuration of the emission tests is EUT + Battery + Charger + Earphone.</p> <p>During the measurement, the EUT working by way of the Camera.</p>
TC03	<p><u>The Idle test mode</u></p> <p>The EUT configuration of the emission tests is EUT + Battery + Charger + Earphone.</p> <p>During the measurement, the EUT is in the idle test mode and recharged by the AC power.</p>

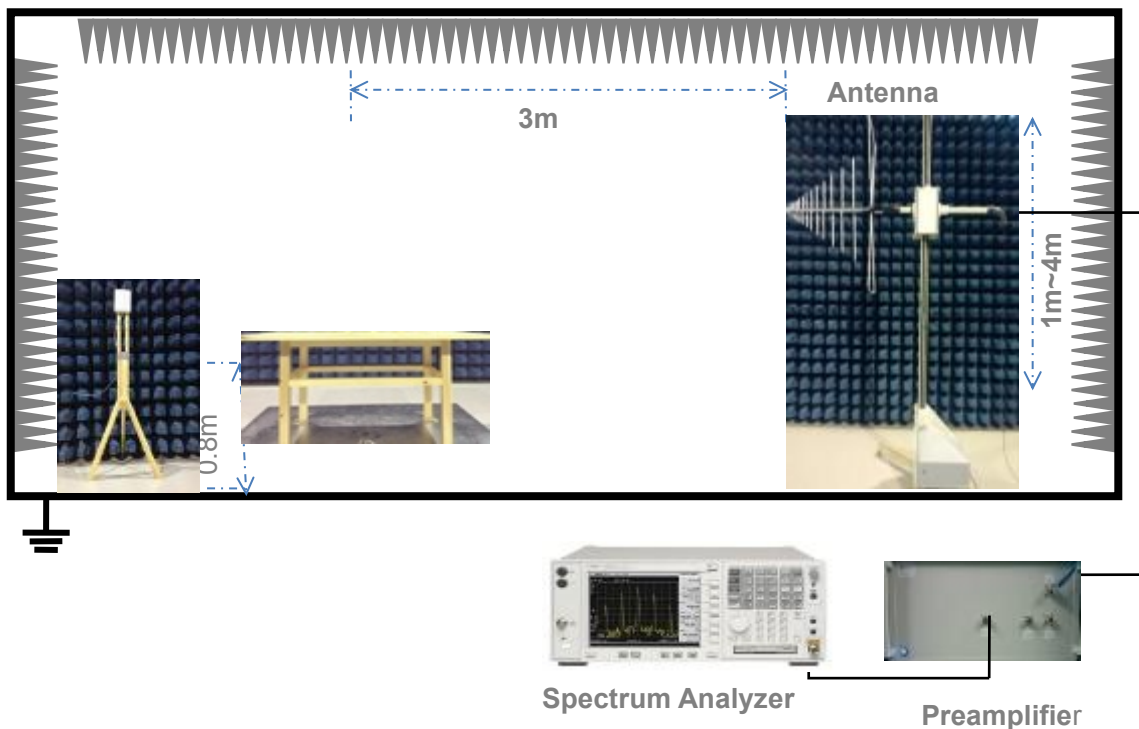
4.5 Test Setups

Test Setup 1



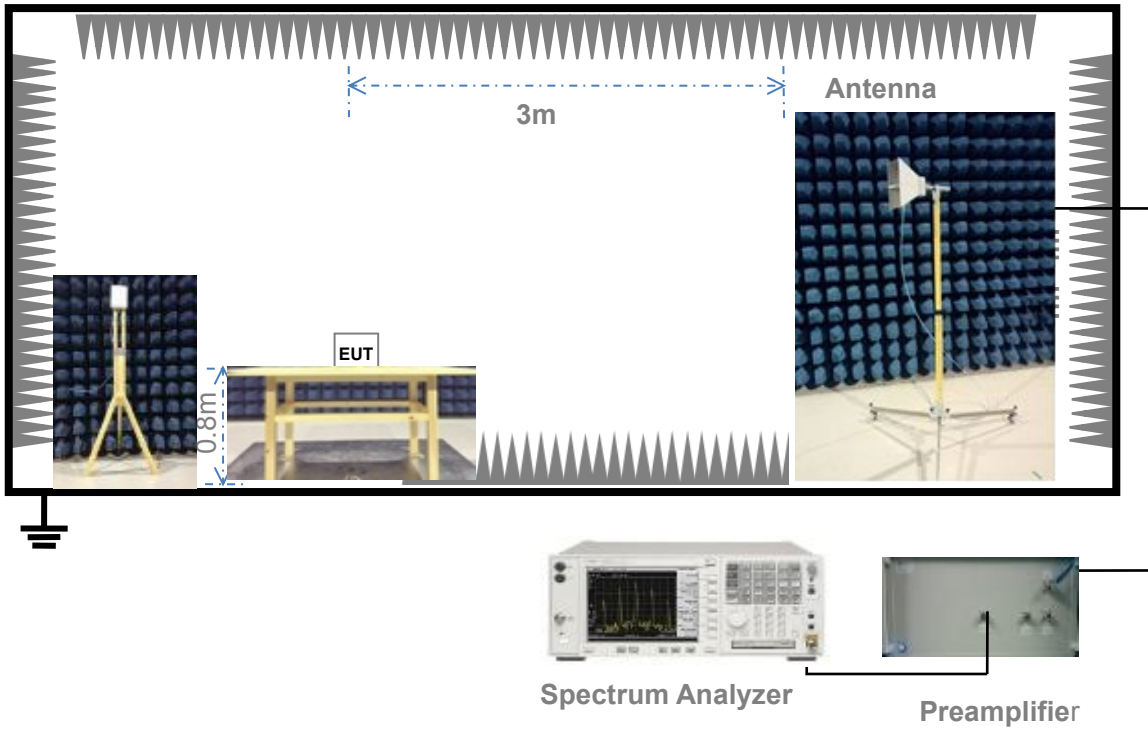
For Radiated Emission Test (Below 30 MHz))

Test Setup 2



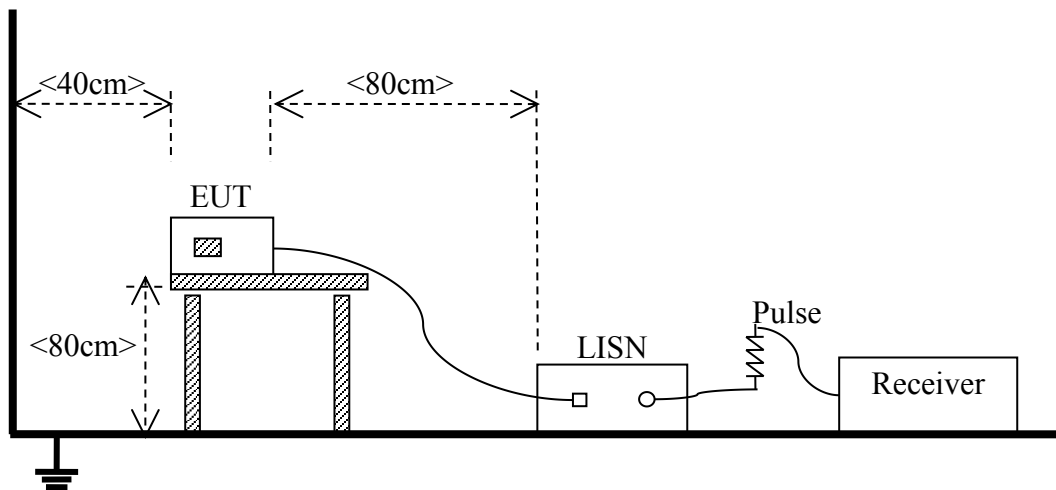
(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 3



(For Radiated Emission Test (above 1 GHz))

Test Setup 4



(For Conducted Emission, AC Ports Test)

4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Env.	NTNV
	Test Setup	Test Setup 1&3
	Test Configuration	TC01~TC03 ^{Note}
Conducted Emission, AC Ports	Test Env.	NTNV
	Test Setup	Test Setup 4
	Test Configuration	TC01~TC03 ^{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 USB test mode and camera test mode are the worst modes in this report.

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

- 1) Field Strength (dB $\mu\text{V}/\text{m}$) = 20*log [Field Strength ($\mu\text{V}/\text{m}$)].
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 dBuV/m@3 m (AV) and 74 dBuV/m@3 m (PK)

5.1.1.2 Test Setup

Refer to 4.5 section test setups 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.

5.1.2 Conducted Emission

5.1.2.1 Test Limit

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

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) 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 setups 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.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

ANNEX A TEST RESULTS

A.1 Radiated Emission

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

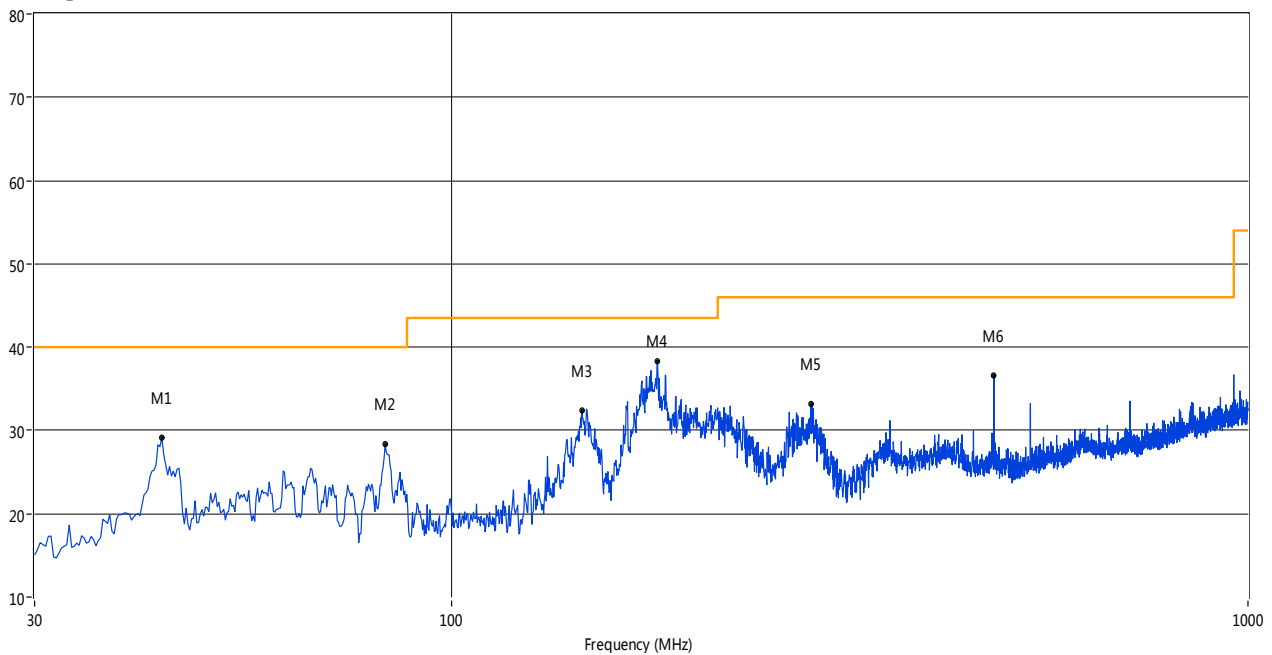
Note 2: For the test data above 1 GHz, According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Test Data and Plots (USB Test Mode)

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31 (o) was not reported.

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

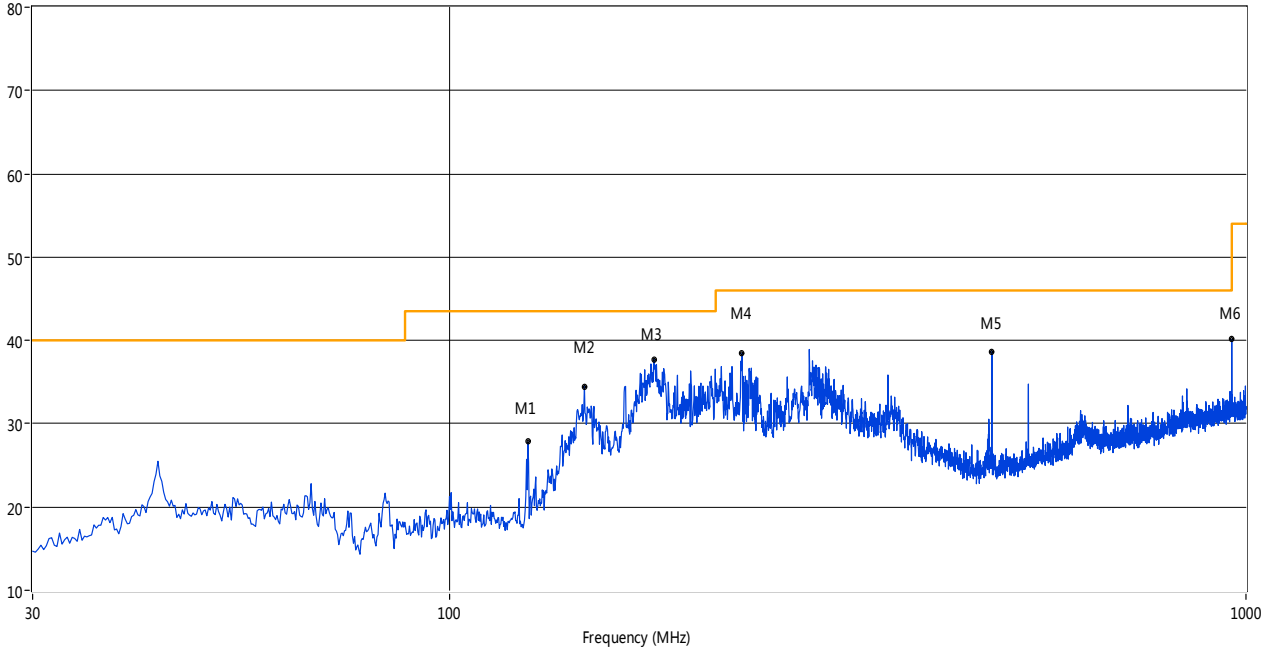
RE Test case_FCC 15B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.33	29.16	-18.89	40.0	10.84	Peak	52.00	100	Vertical	Pass
2	82.61	28.29	-24.03	40.0	11.71	Peak	91.20	100	Vertical	Pass
3	145.89	32.40	-23.52	43.5	11.10	Peak	175.30	100	Vertical	Pass
4	181.28	38.36	-22.02	43.5	5.14	Peak	2.50	100	Vertical	Pass
5	282.86	33.14	-18.29	46.0	12.86	Peak	1.40	100	Vertical	Pass
6	479.97	36.64	-13.81	46.0	9.36	Peak	-0.00	100	Vertical	Pass

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

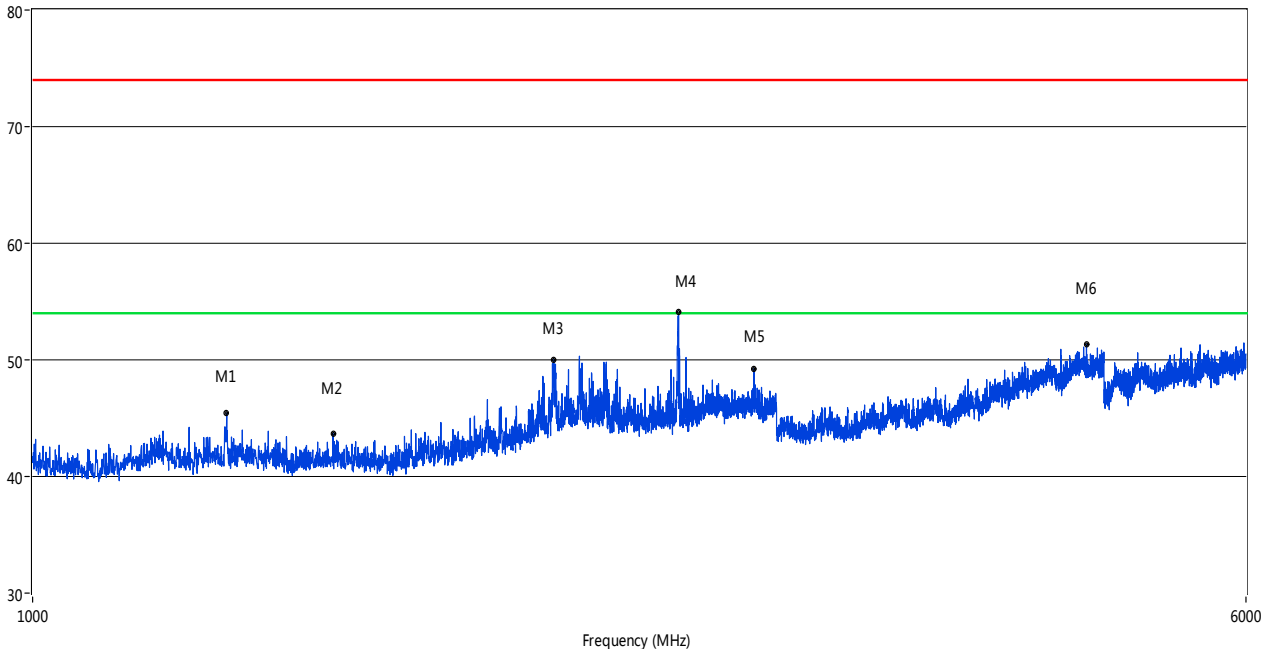
RE Test case_FCC 15B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	125.52	27.83	-22.52	43.5	15.67	Peak	88.60	100	Horizontal	Pass
2	147.83	34.48	-23.49	43.5	9.02	Peak	66.40	100	Horizontal	Pass
3	180.80	37.75	-22.07	43.5	5.75	Peak	17.00	100	Horizontal	Pass
4	233.16	38.50	-19.51	46.0	7.50	Peak	83.00	100	Horizontal	Pass
5	479.97	38.67	-13.81	46.0	7.33	Peak	138.30	100	Horizontal	Pass
6	960.00	40.12	-5.08	46.0	5.88	Peak	308.00	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 6 GHz

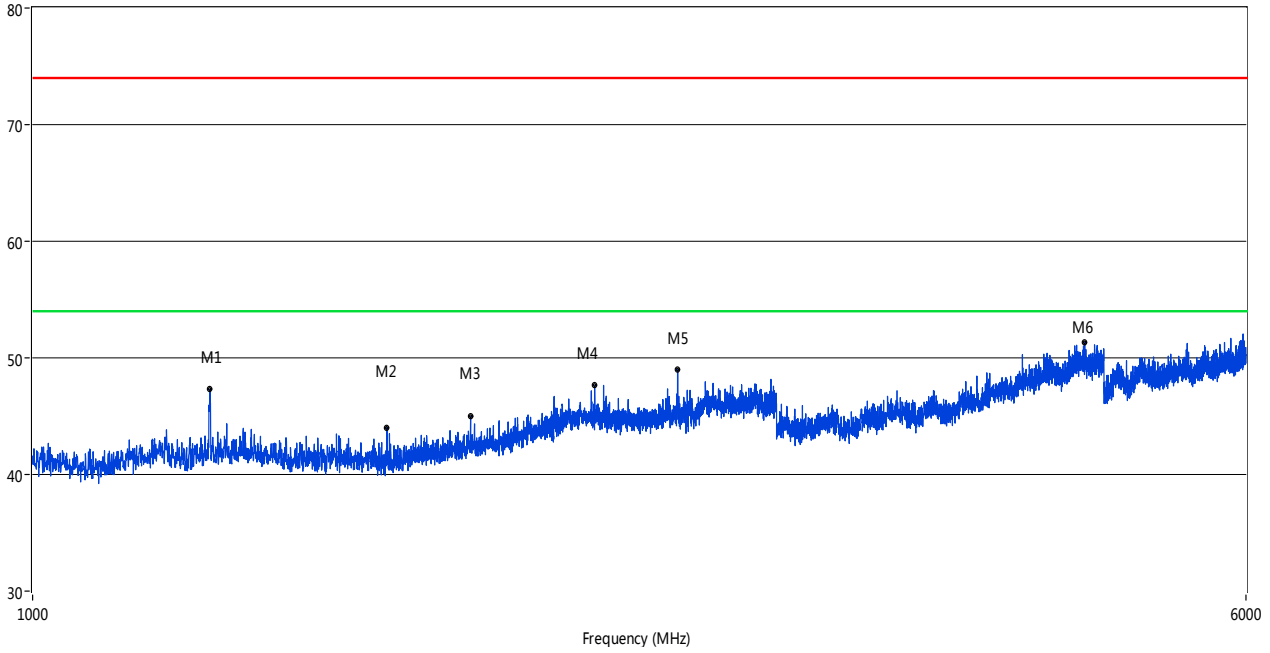
RE Test case_FCC 15B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1331.92	45.43	-4.78	74.0	28.57	Peak	59.20	100	Vertical	Pass
2	1558.36	43.68	-3.98	74.0	30.32	Peak	298.30	100	Vertical	Pass
3	2158.71	50.02	-0.98	74.0	23.98	Peak	359.60	100	Vertical	Pass
4	2595.60	54.08	0.58	74.0	19.92	Peak	359.60	100	Vertical	Pass
4**	2595.60	37.85	0.58	54.0	16.15	Average	359.60	100	Vertical	Pass
5	2902.02	49.26	2.62	74.0	24.74	Peak	106.90	100	Vertical	Pass
6	4741.06	51.31	13.51	74.0	22.69	Peak	316.70	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 6 GHz

RE Test case_FCC 15B 1GHz-6GHz

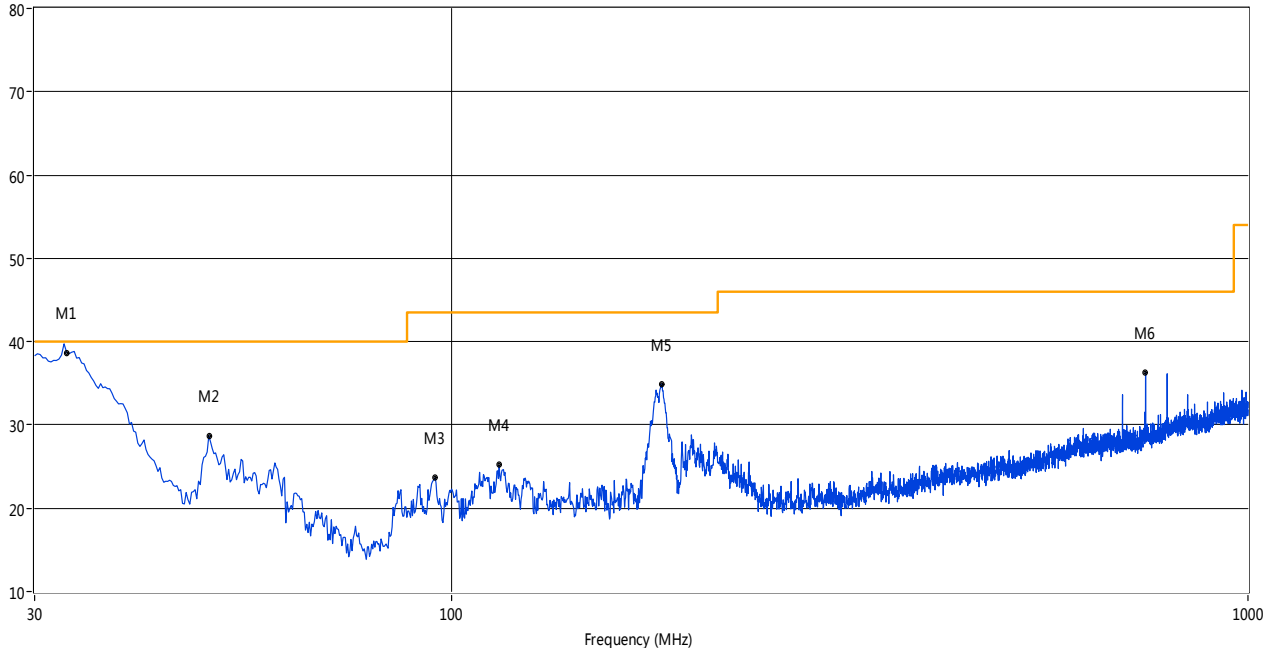


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1299.43	47.31	-4.72	74.0	26.69	Peak	51.50	100	Horizontal	Pass
2	1687.33	44.03	-4.26	74.0	29.97	Peak	298.80	100	Horizontal	Pass
3	1909.27	44.98	-2.77	74.0	29.02	Peak	1.40	100	Horizontal	Pass
4	2293.18	47.62	-0.38	74.0	26.38	Peak	75.20	100	Horizontal	Pass
5	2592.10	49.02	0.54	74.0	24.98	Peak	347.10	100	Horizontal	Pass
6	4728.32	51.34	13.62	74.0	22.66	Peak	341.50	100	Horizontal	Pass

Test Data and Plots (Camera Test Mode)

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

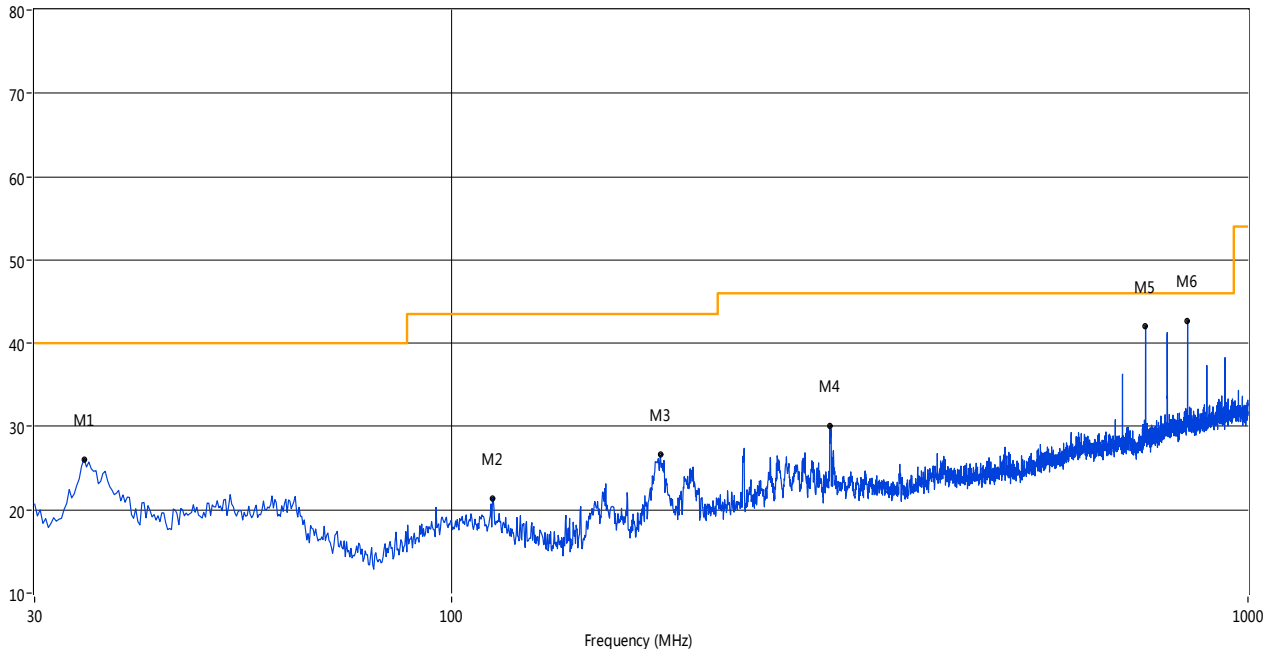
RE Test case_FCC 15B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	33.17	39.74	-21.86	40.0	0.26	Peak	359.20	100.80	Vertical	Pass
1*	33.17	36.51	-21.86	40.0	3.49	QP	359.20	100.80	Vertical	Pass
2	49.64	28.71	-18.67	40.0	11.29	Peak	-0.00	100	Vertical	Pass
3	95.46	23.68	-20.89	43.5	19.82	Peak	148.10	100	Vertical	Pass
4	114.85	25.18	-20.97	43.5	18.32	Peak	0.70	100	Vertical	Pass
5	183.46	34.92	-21.79	43.5	8.58	Peak	2.50	100	Vertical	Pass
6	743.98	36.36	-8.77	46.0	9.64	Peak	7.60	100	Vertical	Pass

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

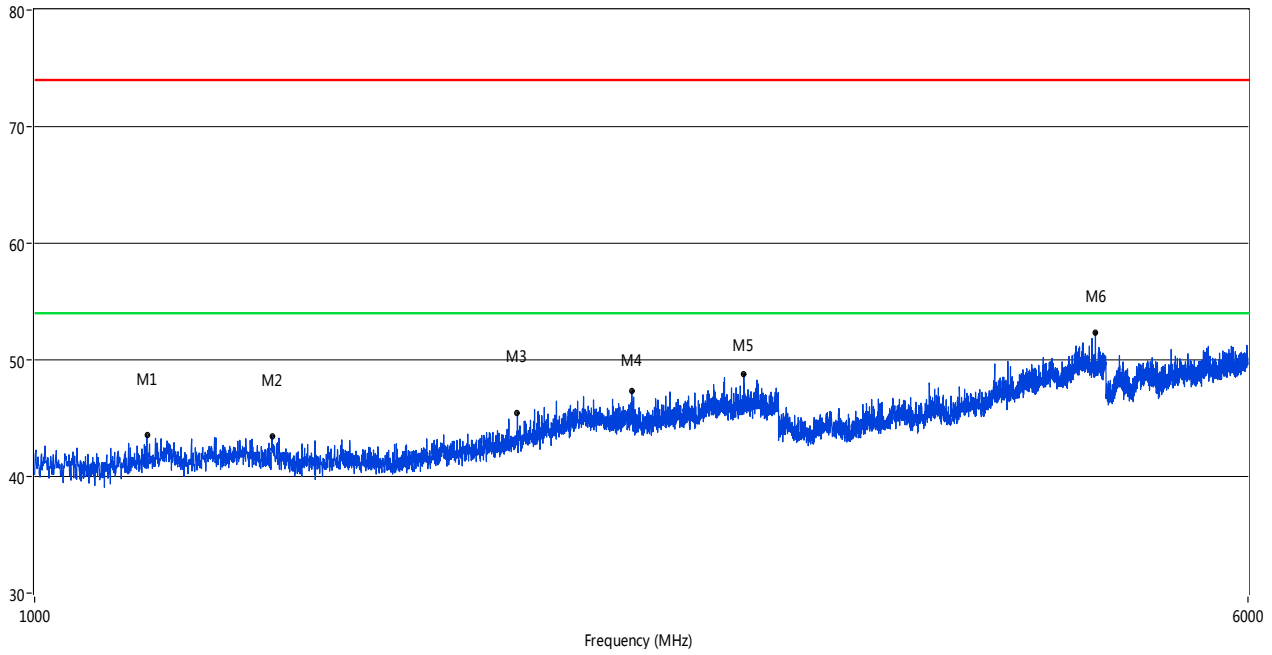
RE Test case_FCC 15B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.61	26.09	-21.38	40.0	13.91	Peak	137.90	100	Horizontal	Pass
2	112.67	21.38	-20.66	43.5	22.12	Peak	313.40	100	Horizontal	Pass
3	182.98	26.58	-21.87	43.5	16.92	Peak	333.40	100	Horizontal	Pass
4	298.62	30.05	-17.68	46.0	15.95	Peak	232.60	100	Horizontal	Pass
5	743.98	41.98	-8.77	46.0	4.02	Peak	31.60	100	Horizontal	Pass
6	839.99	42.59	-6.70	46.0	3.41	Peak	299.60	100	Horizontal	Pass

A.1.7 Test Antenna Horizontal, 1 GHz – 6 GHz

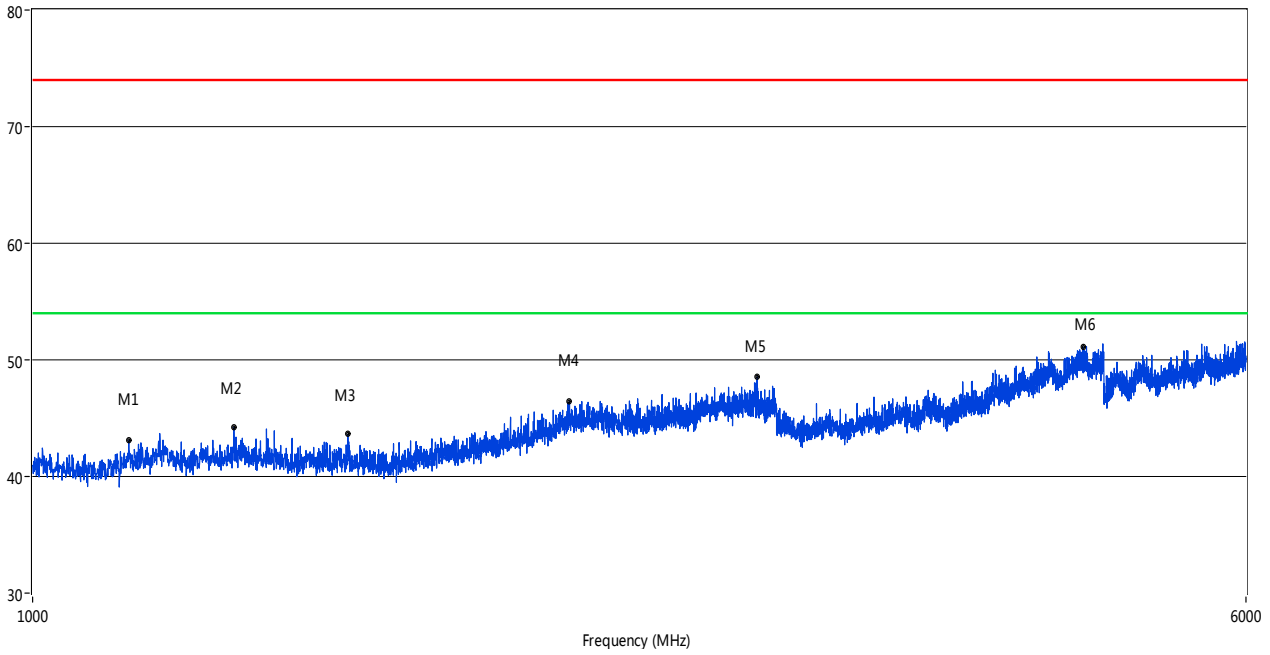
RE Test case_FCC 15B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1180.45	43.51	-5.49	74.0	30.49	Peak	131.20	100	Vertical	Pass
2	1419.90	43.46	-4.67	74.0	30.54	Peak	35.90	100	Vertical	Pass
3	2039.74	45.40	-1.96	74.0	28.60	Peak	19.90	100	Vertical	Pass
4	2415.15	47.31	0.01	74.0	26.69	Peak	359.50	100	Vertical	Pass
5	2850.04	48.82	1.91	74.0	25.18	Peak	43.60	100	Vertical	Pass
6	4789.80	52.37	13.65	74.0	21.63	Peak	36.10	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 6 GHz

RE Test case_FCC 15B 1GHz-6GHz



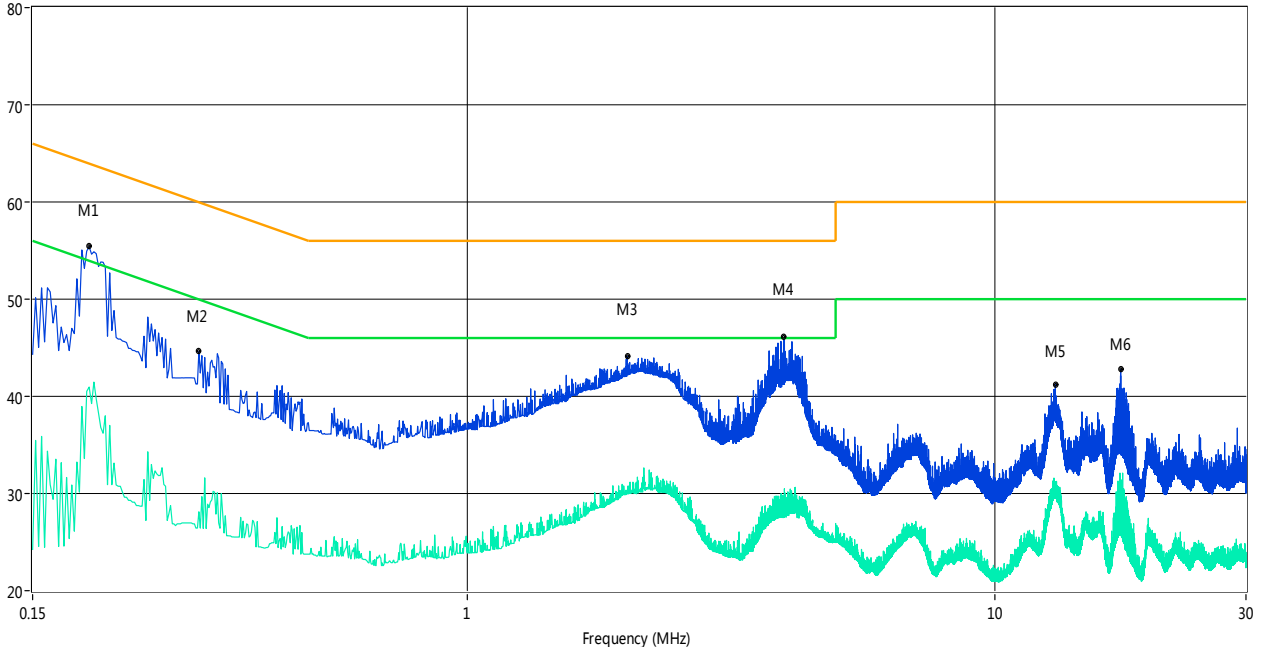
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1152.46	43.10	-5.88	74.0	30.90	Peak	180.30	100	Horizontal	Pass
2	1345.91	44.24	-4.66	74.0	29.76	Peak	155.80	100	Horizontal	Pass
3	1592.85	43.62	-4.28	74.0	30.38	Peak	60.00	100	Horizontal	Pass
4	2209.70	46.44	-0.30	74.0	27.56	Peak	99.70	100	Horizontal	Pass
5	2915.52	48.56	2.29	74.0	25.44	Peak	139.90	100	Horizontal	Pass
6	4717.07	51.12	13.53	74.0	22.88	Peak	307.80	100	Horizontal	Pass

A.2 Conducted Emission

Test Data and Plots (USB Test Mode)

A.2.1 L Phase

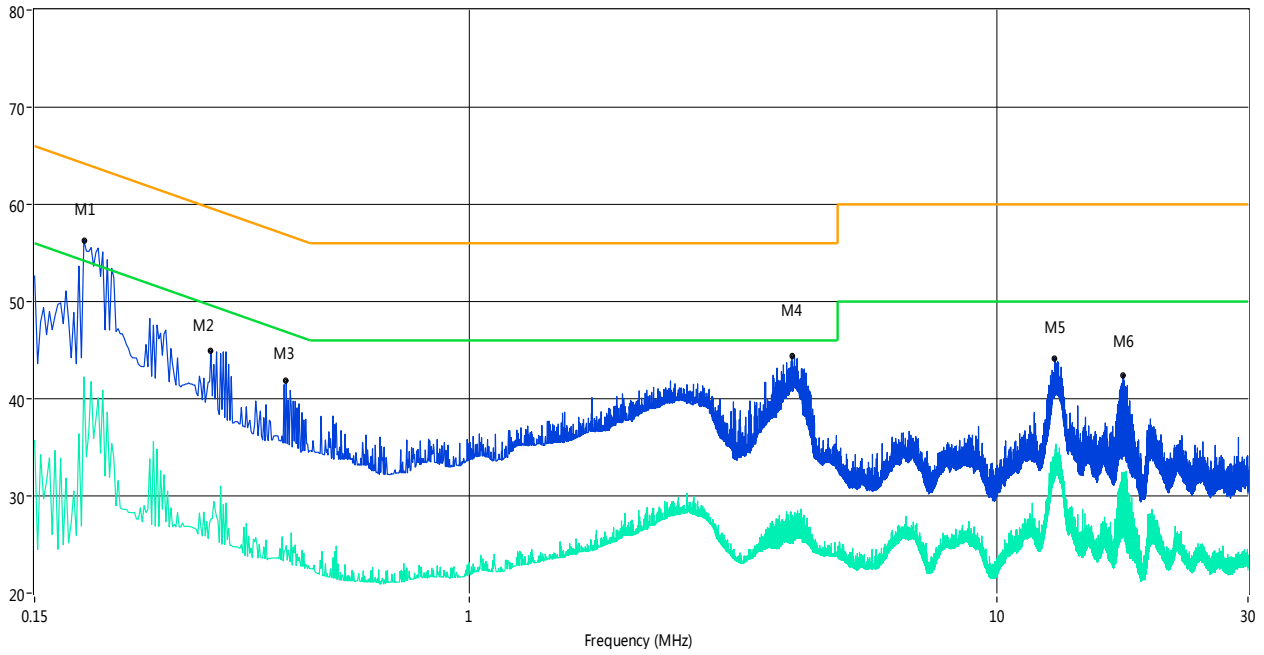
CE Test case_CE_FCC PART 15_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.19	55.4	13.00	64.8	9.40	Peak	L Line	Pass
1**	0.19	41.0	13.00	54.8	13.80	AV	L Line	Pass
2	0.31	44.6	13.00	61.4	16.80	Peak	L Line	Pass
2**	0.31	28.1	13.00	51.4	23.30	AV	L Line	Pass
3	2.01	44.1	13.00	56.0	11.90	Peak	L Line	Pass
3**	2.01	30.1	13.00	46.0	15.90	AV	L Line	Pass
4	3.99	46.1	13.00	56.0	9.90	Peak	L Line	Pass
4**	3.99	27.4	13.00	46.0	18.60	AV	L Line	Pass
5	13.06	41.2	13.00	60.0	18.80	Peak	L Line	Pass
5**	13.06	30.9	13.00	50.0	19.10	AV	L Line	Pass
6	17.36	42.8	13.00	60.0	17.20	Peak	L Line	Pass
6**	17.36	31.3	13.00	50.0	18.70	AV	L Line	Pass

A.2.2 N Phase

CE Test case_CE_FCC PART 15_ Class B

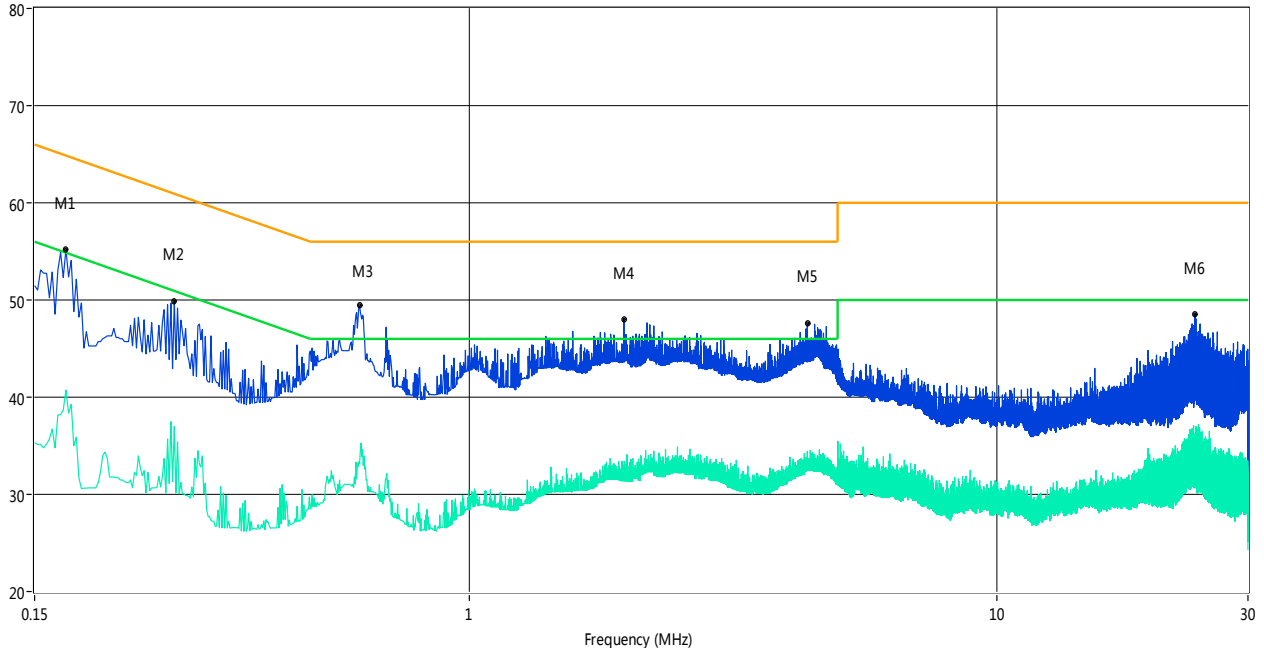


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.19	56.3	13.00	65.0	8.70	Peak	N Line	Pass
1**	0.19	42.3	13.00	55.0	12.70	AV	N Line	Pass
2	0.32	44.9	13.00	61.0	16.10	Peak	N Line	Pass
2**	0.32	27.6	13.00	51.0	23.40	AV	N Line	Pass
3	0.45	41.9	13.00	57.4	15.50	Peak	N Line	Pass
3**	0.45	24.9	13.00	47.4	22.50	AV	N Line	Pass
4	4.09	44.4	13.00	56.0	11.60	Peak	N Line	Pass
4**	4.09	27.6	13.00	46.0	18.40	AV	N Line	Pass
5	12.91	44.2	13.00	60.0	15.80	Peak	N Line	Pass
5**	12.91	33.6	13.00	50.0	16.40	AV	N Line	Pass
6	17.40	42.4	13.00	60.0	17.60	Peak	N Line	Pass
6**	17.40	30.8	13.00	50.0	19.20	AV	N Line	Pass

Test Data and Plots (Camera Test Mode)

A.2.3 L Phase

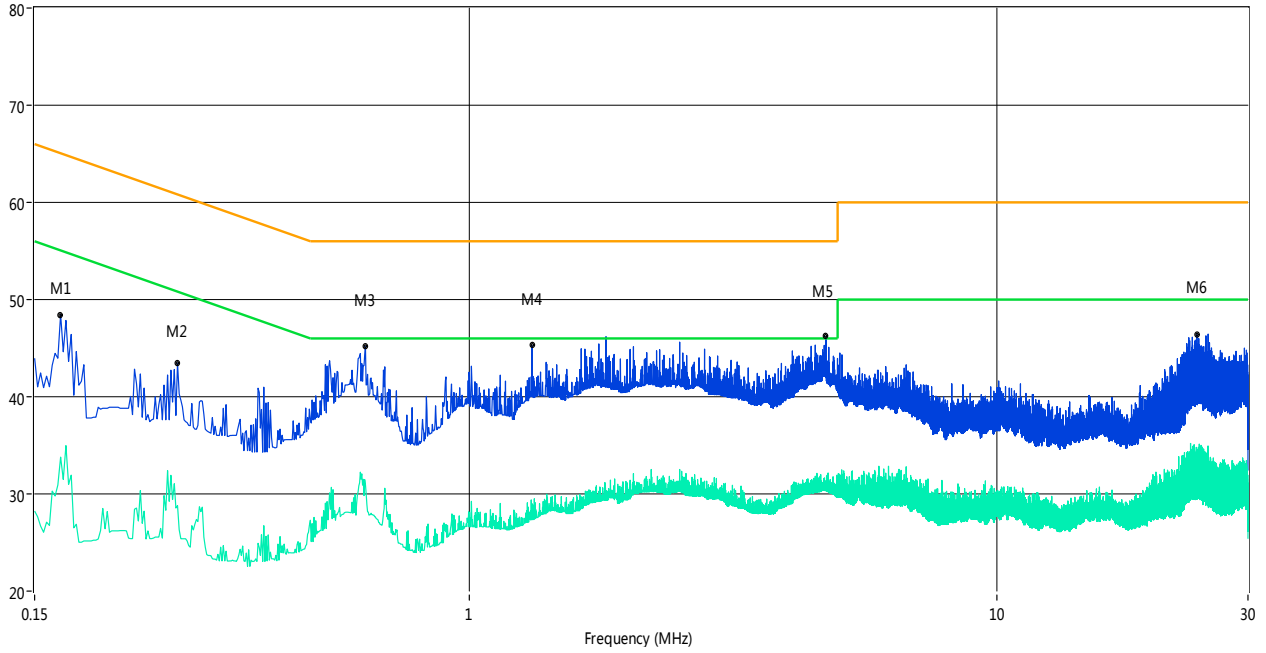
CE Test case_CE_FCC PART 15_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	55.2	13.00	65.4	10.20	Peak	L Line	Pass
1**	0.17	40.7	13.00	55.4	14.70	AV	L Line	Pass
2	0.28	49.9	13.00	62.4	12.50	Peak	L Line	Pass
2**	0.28	37.0	13.00	52.4	15.40	AV	L Line	Pass
3	0.62	49.4	13.00	56.0	6.60	Peak	L Line	Pass
3**	0.62	33.1	13.00	46.0	12.90	AV	L Line	Pass
4	1.97	48.1	13.00	56.0	7.90	Peak	L Line	Pass
4**	1.97	33.0	13.00	46.0	13.00	AV	L Line	Pass
5	4.38	47.6	13.00	56.0	8.40	Peak	L Line	Pass
5**	4.38	34.4	13.00	46.0	11.60	AV	L Line	Pass
6	23.80	48.6	13.00	60.0	11.40	Peak	L Line	Pass
6**	23.80	35.8	13.00	50.0	14.20	AV	L Line	Pass

A.2.4 N Phase

CE Test case_CE_FCC PART 15_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	48.5	13.00	65.5	17.00	Peak	N Line	Pass
1**	0.17	33.8	13.00	55.5	21.70	AV	N Line	Pass
2	0.28	43.5	13.00	62.3	18.80	Peak	N Line	Pass
2**	0.28	28.8	13.00	52.3	23.50	AV	N Line	Pass
3	0.64	45.2	13.00	56.0	10.80	Peak	N Line	Pass
3**	0.64	31.0	13.00	46.0	15.00	AV	N Line	Pass
4	1.32	45.3	13.00	56.0	10.70	Peak	N Line	Pass
4**	1.32	29.0	13.00	46.0	17.00	AV	N Line	Pass
5	4.75	46.2	13.00	56.0	9.80	Peak	N Line	Pass
5**	4.75	30.7	13.00	46.0	15.30	AV	N Line	Pass
6	24.00	46.4	13.00	60.0	13.60	Peak	N Line	Pass
6**	24.00	34.5	13.00	50.0	15.50	AV	N Line	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document "JBP test setup photo.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "EUT EXTERNAL PHOTOS.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "EUT INTERNAL PHOTOS.PDF".

--END OF REPORT--