

FCC REPORT

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6511B

Trade mark: INFINIX

FCC ID: 2AIZN-X6511B

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 03 Aug., 2021

Date of Test: 04 Aug., to 17 Aug., 2021

Date of report issued: 17 Aug., 2021

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	17 Aug., 2021	Original

Tested by: Janet Wei **Date:** 17 Aug., 2021
Test Engineer

Reviewed by: Winner Zhang **Date:** 17 Aug., 2021
Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	X6511B
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh
AC adapter:	Model: U100XSA Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode and test samples plans

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode
<p>The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	
Test Samples Plans :	
Samples Number	Used for Test Items
1#	Conducted Emission
1#	Radiated Emission
1#	EUT constructional details
<p>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</p>	

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**
JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.
- **ISED – CAB identifier.: CN0021**
The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.
- **A2LA - Registration No.: 4346.01**
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
 Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

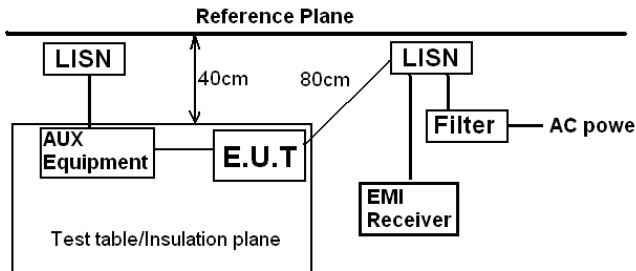
5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
				06-18-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021
				06-18-2021	06-17-2022
Cable	HP	10503A	N/A	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

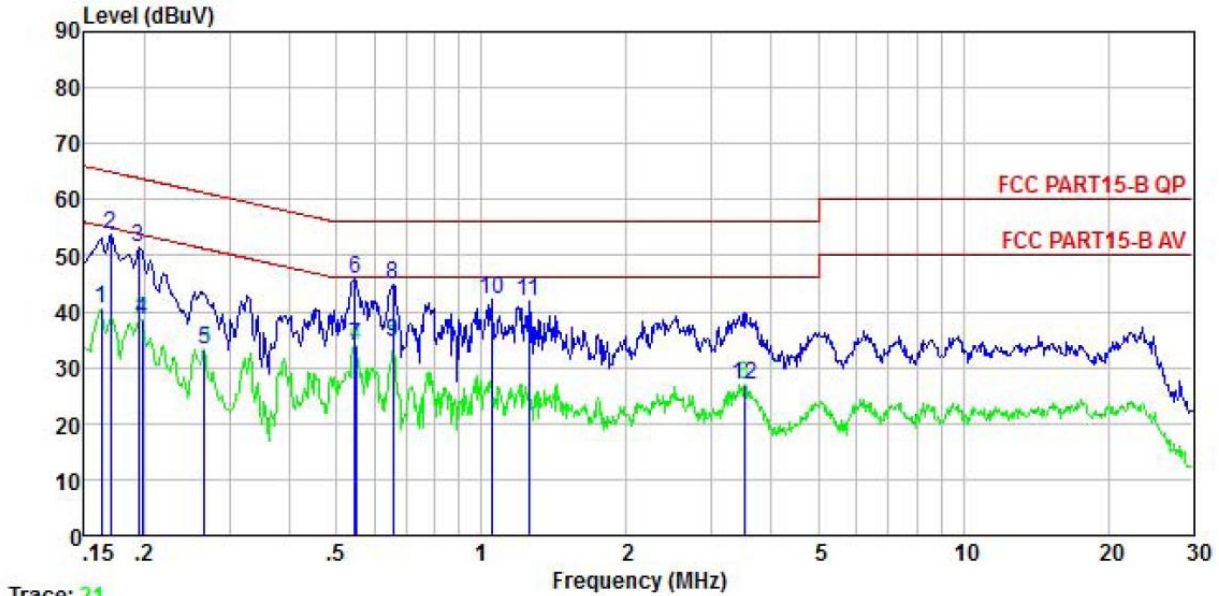
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. 		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement data:

Product name:	Mobile Phone	Product model:	X6511B
Test by:	Janet	Test mode:	Charging+Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



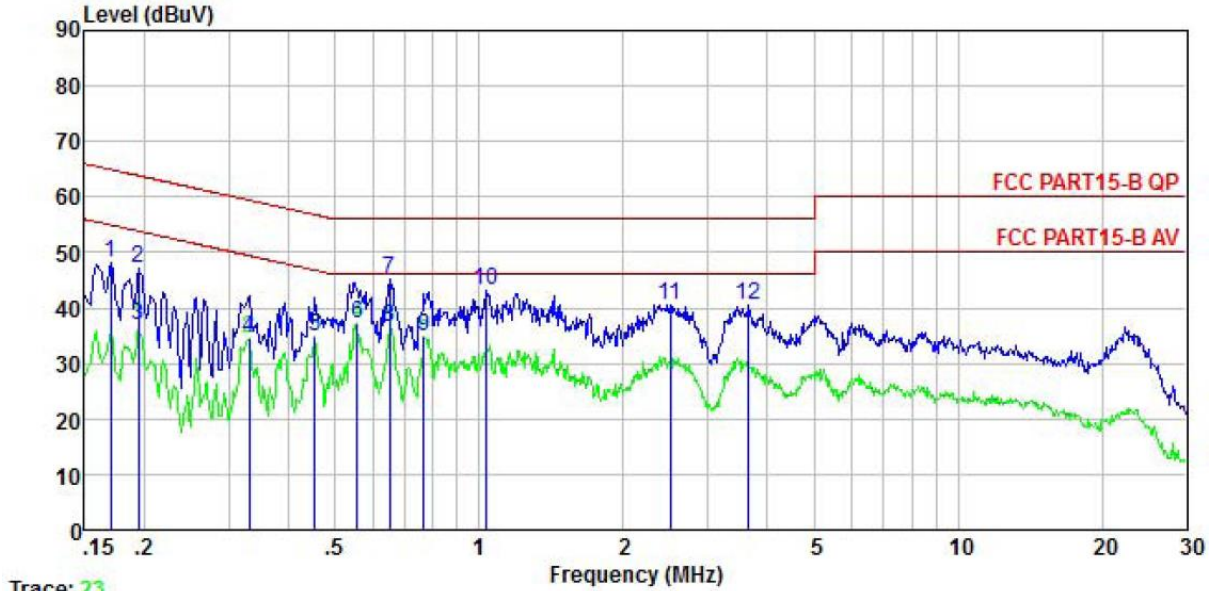
Trace: 21

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	30.26	10.22	-0.08	0.01	40.41	55.34	-14.93	Average
2	0.170	43.73	10.22	-0.10	0.01	53.86	64.94	-11.08	QP
3	0.194	41.50	10.23	-0.15	0.03	51.61	63.84	-12.23	QP
4	0.198	28.43	10.23	-0.16	0.04	38.54	53.71	-15.17	Average
5	0.266	23.33	10.25	-0.23	0.02	33.37	51.25	-17.88	Average
6	0.546	35.75	10.29	-0.36	0.03	45.71	56.00	-10.29	QP
7	0.549	23.84	10.29	-0.36	0.02	33.79	46.00	-12.21	Average
8	0.654	34.82	10.30	-0.39	0.03	44.76	56.00	-11.24	QP
9	0.654	24.54	10.30	-0.39	0.03	34.48	46.00	-11.52	Average
10	1.049	31.56	10.32	0.40	0.06	42.34	56.00	-13.66	QP
11	1.255	31.35	10.32	0.20	0.10	41.97	56.00	-14.03	QP
12	3.509	16.65	10.37	-0.12	0.08	26.98	46.00	-19.02	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	X6511B
Test by:	Janet	Test mode:	Charging+Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



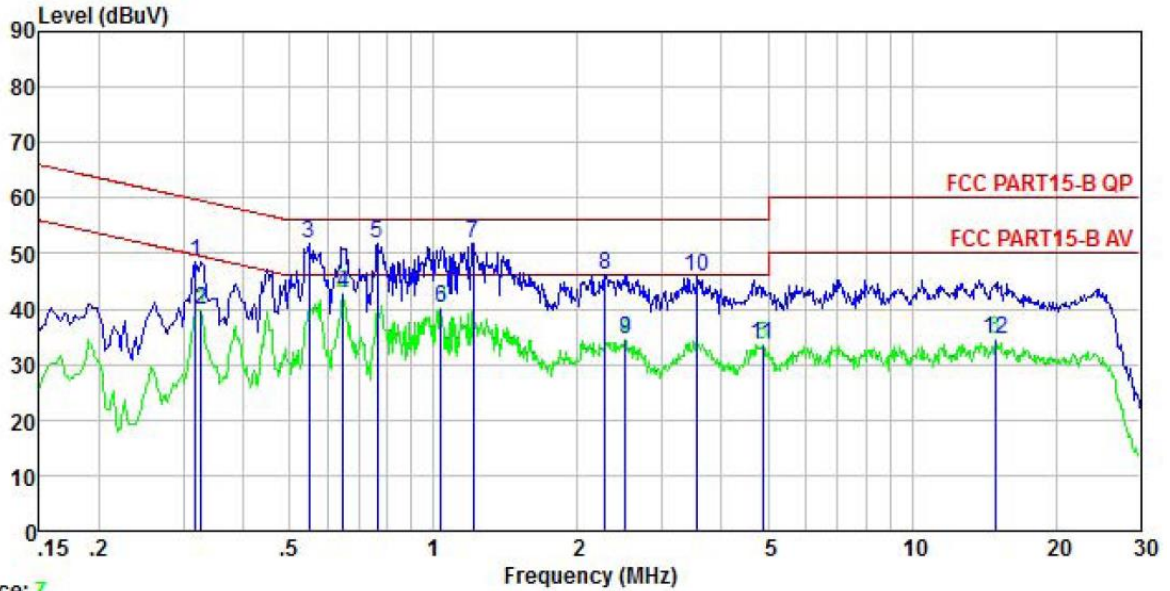
Trace: 23

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	38.05	10.20	0.01	0.01	48.27	64.94	-16.67	QP
2	0.194	36.82	10.22	0.00	0.03	47.07	63.84	-16.77	QP
3	0.194	26.50	10.22	0.00	0.03	36.75	53.84	-17.09	Average
4	0.330	24.40	10.26	-0.01	0.02	34.67	49.44	-14.77	Average
5	0.454	24.42	10.27	-0.01	0.03	34.71	46.80	-12.09	Average
6	0.555	26.96	10.29	0.03	0.02	37.30	46.00	-8.70	Average
7	0.651	34.67	10.30	0.04	0.03	45.04	56.00	-10.96	QP
8	0.651	26.29	10.30	0.04	0.03	36.66	46.00	-9.34	Average
9	0.767	24.36	10.30	0.05	0.03	34.74	46.00	-11.26	Average
10	1.032	32.56	10.31	0.08	0.06	43.01	56.00	-12.99	QP
11	2.500	29.89	10.33	0.25	0.13	40.60	56.00	-15.40	QP
12	3.661	29.68	10.37	0.45	0.08	40.58	56.00	-15.42	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	X6511B
Test by:	Janet	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



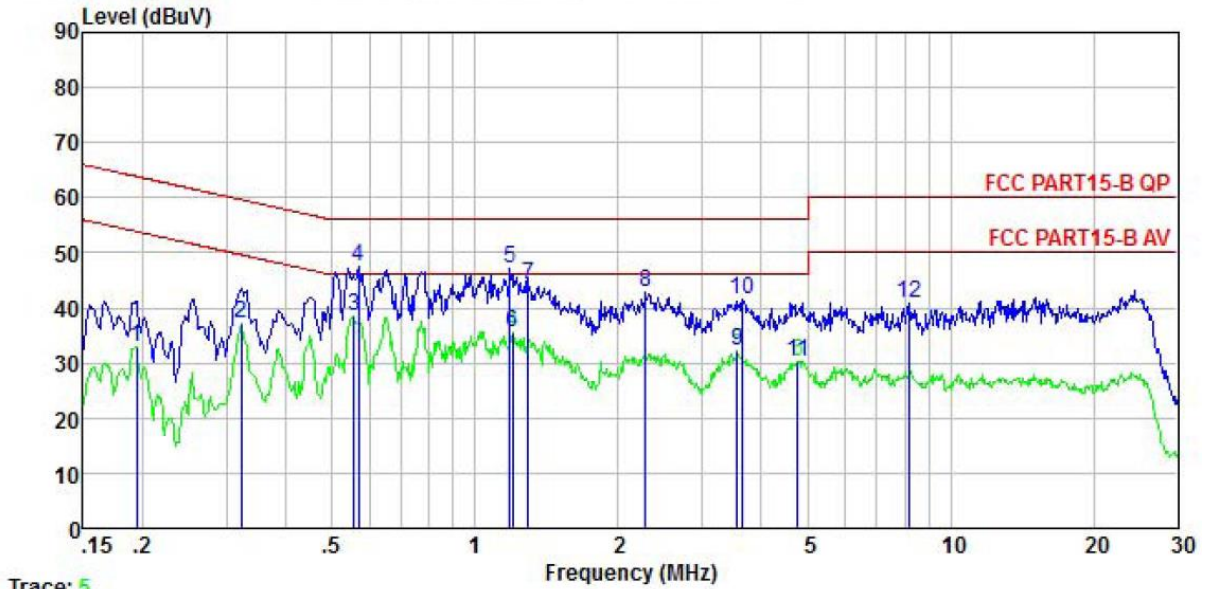
Trace: 7

	Read Freq	LISN Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.318	38.46	10.26	-0.11	0.03	48.64	59.75	-11.11	QP
2	0.327	29.66	10.27	-0.05	0.02	39.90	49.53	-9.63	Average
3	0.549	41.94	10.29	-0.36	0.02	51.89	56.00	-4.11	QP
4	0.647	32.80	10.30	-0.39	0.02	42.73	46.00	-3.27	Average
5	0.763	41.58	10.30	-0.20	0.03	51.71	56.00	-4.29	QP
6	1.037	29.38	10.32	0.42	0.06	40.18	46.00	-5.82	Average
7	1.210	41.29	10.32	0.25	0.09	51.95	56.00	-4.05	QP
8	2.285	35.79	10.34	-0.28	0.16	46.01	56.00	-9.99	QP
9	2.513	24.25	10.34	-0.26	0.13	34.46	46.00	-11.54	Average
10	3.565	35.39	10.37	-0.11	0.08	45.73	56.00	-10.27	QP
11	4.874	23.12	10.42	0.07	0.09	33.70	46.00	-12.30	Average
12	14.907	20.12	10.77	3.58	0.14	34.61	50.00	-15.39	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	X6511B
Test by:	Janet	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



Trace: 5

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.194	22.74	10.22	0.00	0.03	32.99	53.84	-20.85	Average
2	0.322	26.83	10.25	-0.01	0.03	37.10	49.66	-12.56	Average
3	0.555	28.17	10.29	0.03	0.02	38.51	46.00	-7.49	Average
4	0.570	37.05	10.29	0.03	0.02	47.39	56.00	-8.61	QP
5	1.184	36.52	10.31	0.10	0.09	47.02	56.00	-8.98	QP
6	1.197	25.07	10.31	0.10	0.09	35.57	46.00	-10.43	Average
7	1.296	33.54	10.31	0.11	0.11	44.07	56.00	-11.93	QP
8	2.285	32.03	10.33	0.22	0.16	42.74	56.00	-13.26	QP
9	3.565	21.22	10.36	0.43	0.08	32.09	46.00	-13.91	Average
10	3.642	30.47	10.37	0.45	0.08	41.37	56.00	-14.63	QP
11	4.772	19.20	10.40	0.64	0.09	30.33	46.00	-15.67	Average
12	8.192	29.20	10.53	1.08	0.10	40.91	60.00	-19.09	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @10m)		Remark	
	30MHz-88MHz	30.0		Quasi-peak Value	
	88MHz-216MHz	33.5		Quasi-peak Value	
	216MHz-960MHz	36.0		Quasi-peak Value	
	960MHz-1GHz	44.0		Quasi-peak Value	
	Frequency	Limit (dBuV/m @3m)		Remark	
Above 1GHz	54.0		Average Value		
	74.0		Peak Value		
Test setup:	<p>Below 1GHz</p>				
	<p>Above 1GHz</p>				
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber (below 1GHz) or 3 meter chamber (above 1GHz). The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 10 meters (below 1GHz) or 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on 				

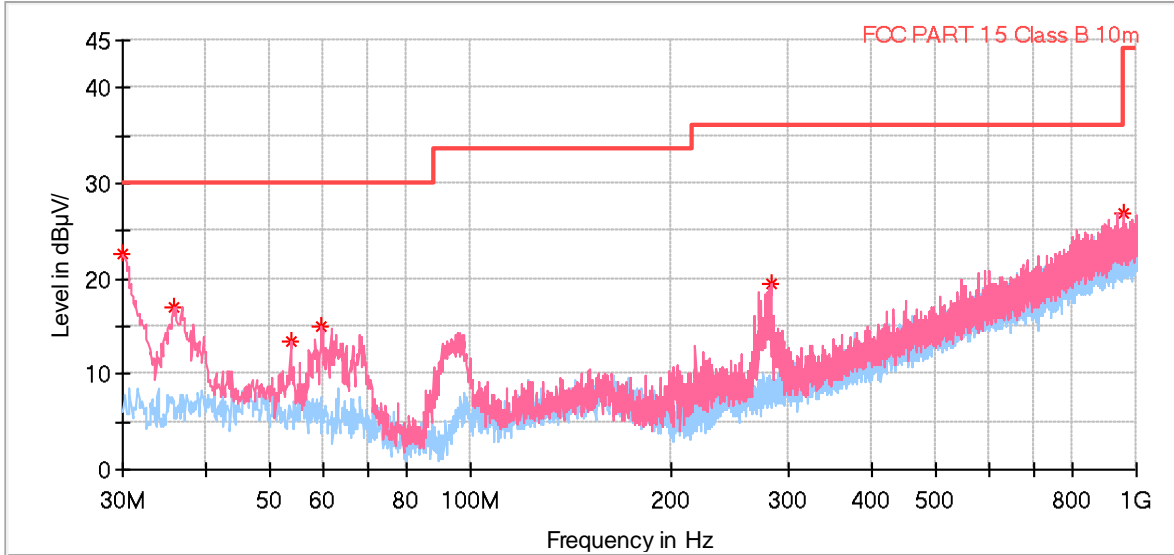
	<p>the top of a variable-height antenna tower.</p> <ol style="list-style-type: none"> 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded

Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	X6511B
Test By:	Janet	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

Full Spectrum



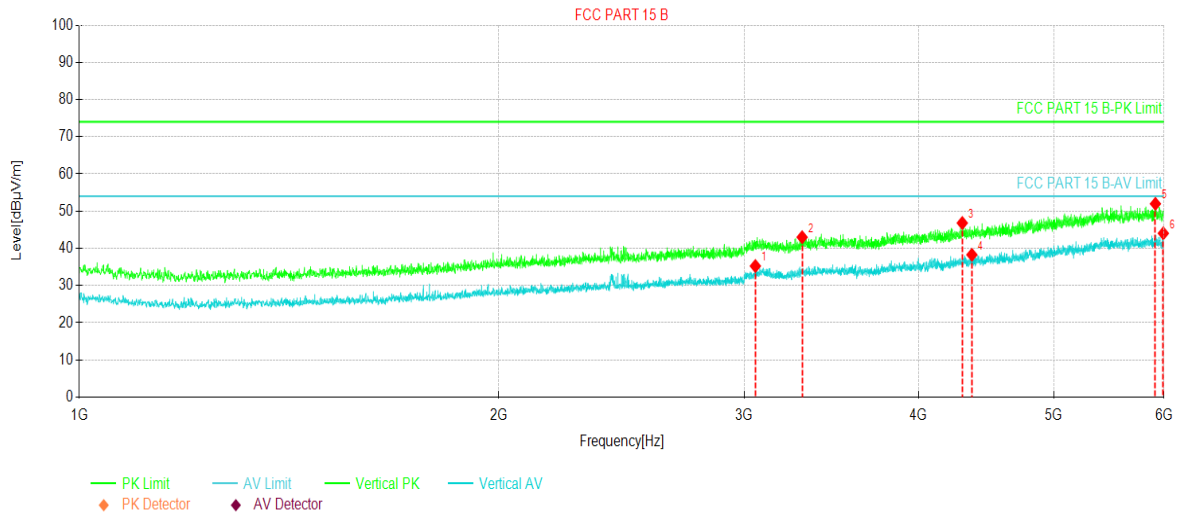
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	22.65	30.00	7.35	100.0	V	173.0	-17.7
35.820000	17.11	30.00	12.89	100.0	V	0.0	-16.5
53.668000	13.37	30.00	16.63	100.0	V	0.0	-15.9
59.585000	14.95	30.00	15.05	100.0	V	0.0	-16.3
282.200000	19.41	36.00	16.59	100.0	V	0.0	-14.2
958.484000	26.95	36.00	9.05	100.0	V	315.0	0.0

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Product Name:	Mobile Phone	Product Model:	X6511B
Test By:	Janet	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

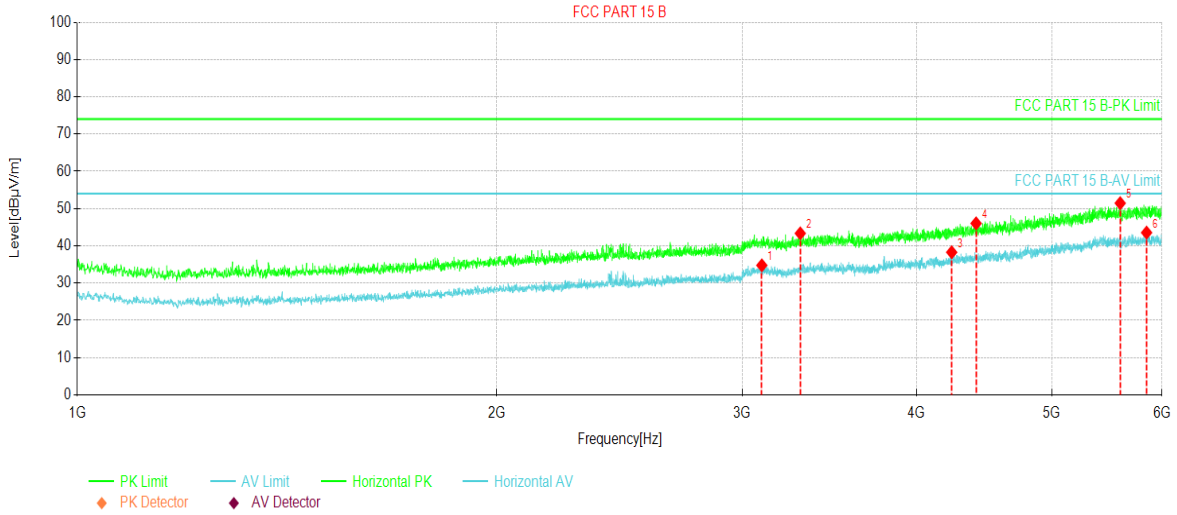


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	3055.00	51.61	35.24	-16.37	54.00	18.76	AV	Vertical
2	3300.62	58.58	42.99	-15.59	74.00	31.01	PK	Vertical
3	4300.00	58.45	46.81	-11.64	74.00	27.19	PK	Vertical
4	4368.75	49.59	38.27	-11.32	54.00	15.73	AV	Vertical
5	5915.62	56.81	51.98	-4.83	74.00	22.02	PK	Vertical
6	5993.75	49.05	44.04	-5.01	54.00	9.96	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Mobile Phone	Product Model:	X6511B
Test By:	Janet	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	3098.12	50.74	34.77	-15.97	54.00	19.23	AV	Horizontal
2	3301.25	58.93	43.34	-15.59	74.00	30.66	PK	Horizontal
3	4239.37	50.07	38.27	-11.80	54.00	15.73	AV	Horizontal
4	4413.75	57.15	46.02	-11.13	74.00	27.98	PK	Horizontal
5	5600.00	57.51	51.44	-6.07	74.00	22.56	PK	Horizontal
6	5849.37	48.55	43.55	-5.00	54.00	10.45	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.