



TEST REPORT

No. I23Z60093-EMC01

for

TCL Communication Ltd.

Tablet PC

Model Name: 9138S,9150S

FCC ID: 2ACCJB199

with

Hardware Version: 05

Software Version: YNS7

Issued Date: 2023-03-07

Note:

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Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z60093-EMC01	Rev.0	1st edition	2023-03-07

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35° C
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2023-02-24
Testing End Date: 2023-03-07

1.5. Signature



Zhang Ying

(Prepared this test report)



An Hui

(Reviewed this test report)



Shi Suolan

(Approved this test report)



2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact: Annie Jiang
Email: nianxiang.jiang@tcl.com
Telephone: +86 755 3661 1621

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Tablet PC
Model Name	9138S,9150S
FCC ID	2ACCJB199
Extreme vol. Limits	3.5VDC to 4.35VDC (nominal: 3.85VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Note
UT59a	358975210002086	05	YNS7	/

*EUT ID: is used to identify the test sample in the lab internally.

UT25a is first source, and UT23a is second source.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacture
AE1	Battery	TLp053C1	BYD
AE2-1	Charger	QC13US	PUAN
AE3	USB cable	CDA0000128C1	JUWEI
AE4	Headset	/	/

*AE ID: is used to identify the test sample in the lab internally.

Note: The USB cables are shielded.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.2	UT25a + AE1 + AE2-1 + AE3 + AE4	EUT+CHANGING US + Headset
Set.3	UT25a + AE1 + AE3 + AE4	EUT+USB+ Headset

3.5. Test summary

EUT set-up No.	Test mode	Test result	
		Radiated Emission	Conducted Emission
Set.2	Charger+Real Camera+ RX GSM850	Pass	Pass
Set.2	Charger+Front Camera + RX WCDMA band 5	Pass	Pass
Set.2	Charger+MP4 + RX LTE band 5	Pass	Pass
Set.3	USB TO PC + RX LTE band 12	Pass	Pass
Set.2	Charger+FM + RX LTE band 13	Pass	Pass

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2021
ANSI C63.4	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	2014

Note: The test methods have no deviation with standards.

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz—1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	CTTL (Huayuan bei)
2	Conducted Emission	15.107(a)	B.2	P	CTTL (Huayuan bei)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100235	R&S	2023-04-07	1 year
2	LISN	ENV216	101200	R&S	2023-06-29	1 Year
3	Test Receiver	ESW44	103144	Rohde & Schwarz	2023-10-25	1 year
4	BiLog Antenna	VULB9163	9163-1223	Schwarzbeck	2023-07-25	1 Year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
6	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
7	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
8	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
9	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A
10	Universal Radio Communication Tester	CMW500	150344	R&S	2024-01-03	1 year
11	Broadcast Test Center	BTC	101024	R&S	2024-01-24	1 year
12	Signal Generator	SML01	106247	R&S	2023-05-16	1 Year

Test Item	Test Software and Version	Software Vendor
Conducted Emission	EMC32 V8.52.0	R&S
Radiated Emission ((Huayuan bei)	EMC32 V10.60.20	R&S

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 3/10 meters is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode with Camera/MP3. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in section 3.4, are investigated. Only the worst case emissions are reported.

The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

A.1.4 Test Condition

Frequency range (MHz)	RBW/VBW	Sweep Time (s)	Detector
30-1000	120kHz (IF Bandwidth)	5	Peak/Quasi-peak
Above 1000	1MHz/3MHz	15	Peak, Average

A.1.5 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{Rpl} = P_{\text{Mea}} + G_A + G_{PL}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty:

Frequency range	Measurement uncertainty
30MHz-1GHz	5.18dB, k=2
1GHz-18GHz	5.54dB, k=2

Measurement results for Set.2, Charger + REAR Camera + GSM 850 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
51.631000	13.45	29.54	16.09	120.000	100.0	V
77.724000	19.73	29.54	9.81	120.000	175.0	V
128.552000	17.43	33.06	15.63	120.000	203.0	V
162.308000	15.88	33.06	17.18	120.000	108.0	V
220.993000	23.67	35.56	11.89	120.000	108.0	V
306.644000	20.10	35.56	15.46	120.000	100.0	V

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17990.140	39.50	-29.06	46.66	21.90	54.00	14.50	V
17990.480	39.20	-29.06	46.66	21.60	54.00	14.80	H
17994.560	39.10	-29.06	46.66	21.50	54.00	14.90	V
17975.180	39.00	-29.06	46.66	21.40	54.00	15.00	H
17988.100	38.90	-29.06	46.66	21.30	54.00	15.10	H
17548.480	38.90	-29.49	44.35	24.03	54.00	15.10	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.840	49.80	-29.06	46.66	32.20	74.00	24.20	V
17532.160	49.50	-29.32	44.35	34.47	74.00	24.50	H
17550.520	49.30	-29.49	44.35	34.43	74.00	24.70	H
17516.180	49.10	-29.26	44.35	34.00	74.00	24.90	H
17992.180	49.10	-29.06	46.66	31.50	74.00	24.90	V
17553.580	48.90	-29.49	44.35	34.03	74.00	25.10	V

Measurement results for Set.2, Charger + Front Camera + WCDMA 850 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
55.511000	12.32	29.54	17.22	120.000	175.0	V
78.112000	19.90	29.54	9.64	120.000	175.0	V
125.545000	17.10	33.06	15.96	120.000	108.0	V
165.994000	19.09	33.06	13.97	120.000	183.0	V
223.903000	24.11	35.56	11.45	120.000	125.0	V
251.645000	20.09	35.56	15.47	120.000	100.0	V

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17986.060	39.30	-29.06	46.66	21.70	54.00	14.70	V
17989.120	39.30	-29.06	46.66	21.70	54.00	14.70	H
17981.980	39.10	-29.06	46.66	21.50	54.00	14.90	H
17992.860	39.00	-29.06	46.66	21.40	54.00	15.00	V
17990.820	38.90	-29.06	46.66	21.30	54.00	15.10	H
18000.000	38.90	-29.24	47.00	21.14	54.00	15.10	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17987.420	49.00	-29.06	46.66	31.40	74.00	25.00	V
17996.260	48.90	-29.06	46.66	31.30	74.00	25.10	H
17671.560	48.80	-29.90	45.25	33.45	74.00	25.20	H
17530.800	48.80	-29.32	44.35	33.77	74.00	25.20	V
17991.500	48.70	-29.06	46.66	31.10	74.00	25.30	V
17532.500	48.60	-29.32	44.35	33.57	74.00	25.40	H

Measurement results for Set.2, Charger + MP4 + LTE band 5 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
43.968000	12.26	29.54	17.28	120.000	323.0	V
78.015000	21.60	29.54	7.94	120.000	175.0	V
126.709000	17.02	33.06	16.04	120.000	125.0	V
169.777000	19.24	33.06	13.82	120.000	175.0	V
224.970000	24.02	35.56	11.54	120.000	100.0	V
256.301000	17.57	35.56	17.99	120.000	107.0	V

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.640	39.90	-29.06	46.66	22.30	54.00	14.10	V
17993.880	39.60	-29.06	46.66	22.00	54.00	14.40	H
17984.360	39.40	-29.06	46.66	21.80	54.00	14.60	V
17990.820	39.00	-29.06	46.66	21.40	54.00	15.00	H
17987.080	39.00	-29.06	46.66	21.40	54.00	15.00	V
17988.100	38.80	-29.06	46.66	21.20	54.00	15.20	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17903.100	49.70	-29.33	45.95	33.07	74.00	24.30	H
17583.500	49.20	-29.70	45.25	33.65	74.00	24.80	V
17954.100	49.00	-28.94	46.66	31.28	74.00	25.00	V
17999.660	49.00	-29.06	46.66	31.40	74.00	25.00	V
17621.580	48.90	-29.40	45.25	33.05	74.00	25.10	V
17478.780	48.80	-30.06	44.35	34.50	74.00	25.20	V

Measurement results for Set.3, USB + LTE B12 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
43.483000	18.61	29.54	10.93	120.000	283.0	V
118.076000	22.59	33.06	10.47	120.000	100.0	V
167.934000	17.64	33.06	15.42	120.000	283.0	H
215.949000	28.07	33.06	4.99	120.000	100.0	V
404.808000	29.56	35.56	6.00	120.000	275.0	H
672.528000	30.68	35.56	4.88	120.000	202.0	V

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
6053.760	41.20	-37.82	34.40	44.62	54.00	12.80	H
6053.420	40.40	-37.82	34.40	43.82	54.00	13.60	H
17993.880	39.40	-29.06	46.66	21.80	54.00	14.60	V
17995.240	39.10	-29.06	46.66	21.50	54.00	14.90	H
17986.060	39.00	-29.06	46.66	21.40	54.00	15.00	V
17532.840	39.00	-29.32	44.35	23.97	54.00	15.00	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17483.880	49.40	-29.77	44.35	34.82	74.00	24.60	V
17508.360	49.00	-29.26	44.35	33.90	74.00	25.00	H
17998.300	48.80	-29.06	46.66	31.20	74.00	25.20	V
17800.420	48.80	-29.63	45.95	32.48	74.00	25.20	H
17584.180	48.60	-29.70	45.25	33.05	74.00	25.40	H
17408.740	48.60	-29.44	44.35	33.69	74.00	25.40	H

Measurement results for Set.2, Charger + FM+ LTE band 13 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
51.534000	16.14	29.54	13.40	120.000	100.0	V
78.015000	21.08	29.54	8.46	120.000	275.0	V
112.547000	15.79	33.06	17.27	120.000	125.0	V
166.091000	15.33	33.06	17.73	120.000	175.0	V
202.175000	16.33	33.06	16.73	120.000	108.0	V
262.994000	14.75	35.56	20.81	120.000	108.0	V

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.560	40.00	-29.06	46.66	22.40	54.00	14.00	H
17996.260	39.70	-29.06	46.66	22.10	54.00	14.30	V
18000.000	39.60	-29.24	47.00	21.84	54.00	14.40	V
17999.660	39.40	-29.06	46.66	21.80	54.00	14.60	V
17992.520	39.20	-29.06	46.66	21.60	54.00	14.80	H
17994.900	39.10	-29.06	46.66	21.50	54.00	14.90	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	49.50	-29.06	46.66	31.90	74.00	24.50	H
17993.200	49.40	-29.06	46.66	31.80	74.00	24.60	V
17994.220	49.30	-29.06	46.66	31.70	74.00	24.70	H
17534.200	49.20	-29.32	44.35	34.17	74.00	24.80	H
17981.640	49.10	-29.06	46.66	31.50	74.00	24.90	V
17436.620	48.70	-29.71	44.35	34.06	74.00	25.30	V

Measurement results for Set.2, Charger + REAR Camera + GSM 850 idle:

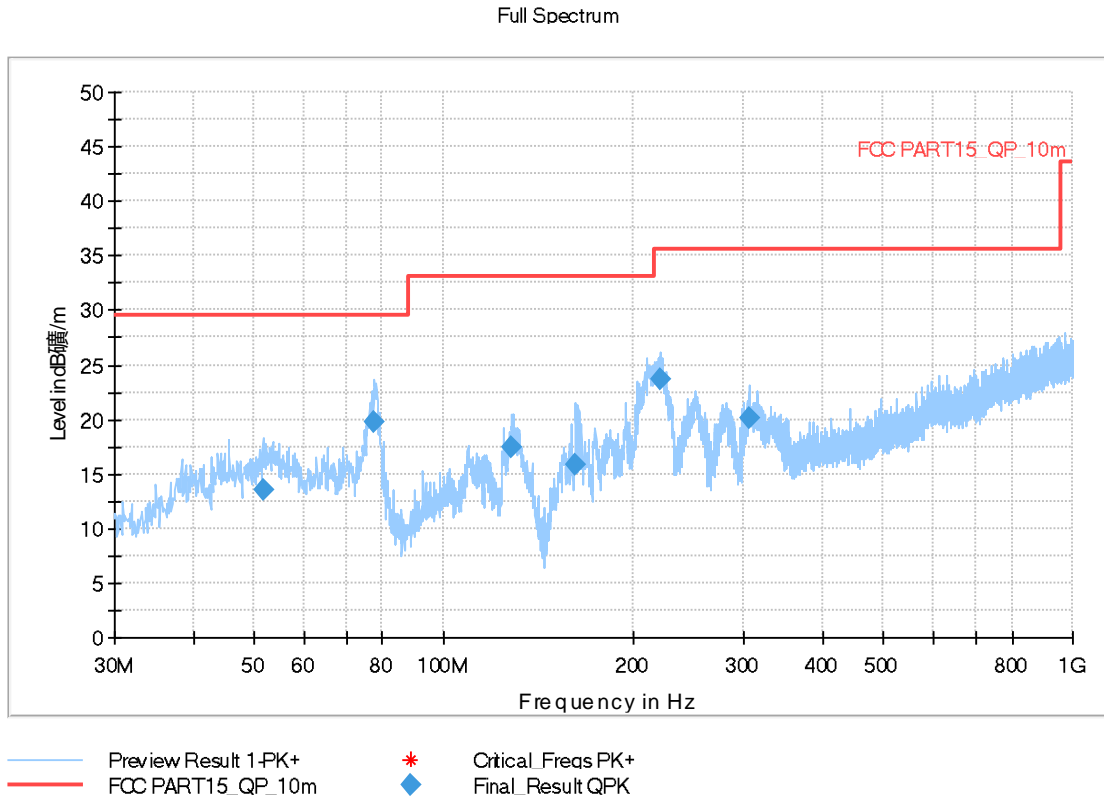


Fig A.1 Radiated Emission from 30MHz to 1GHz

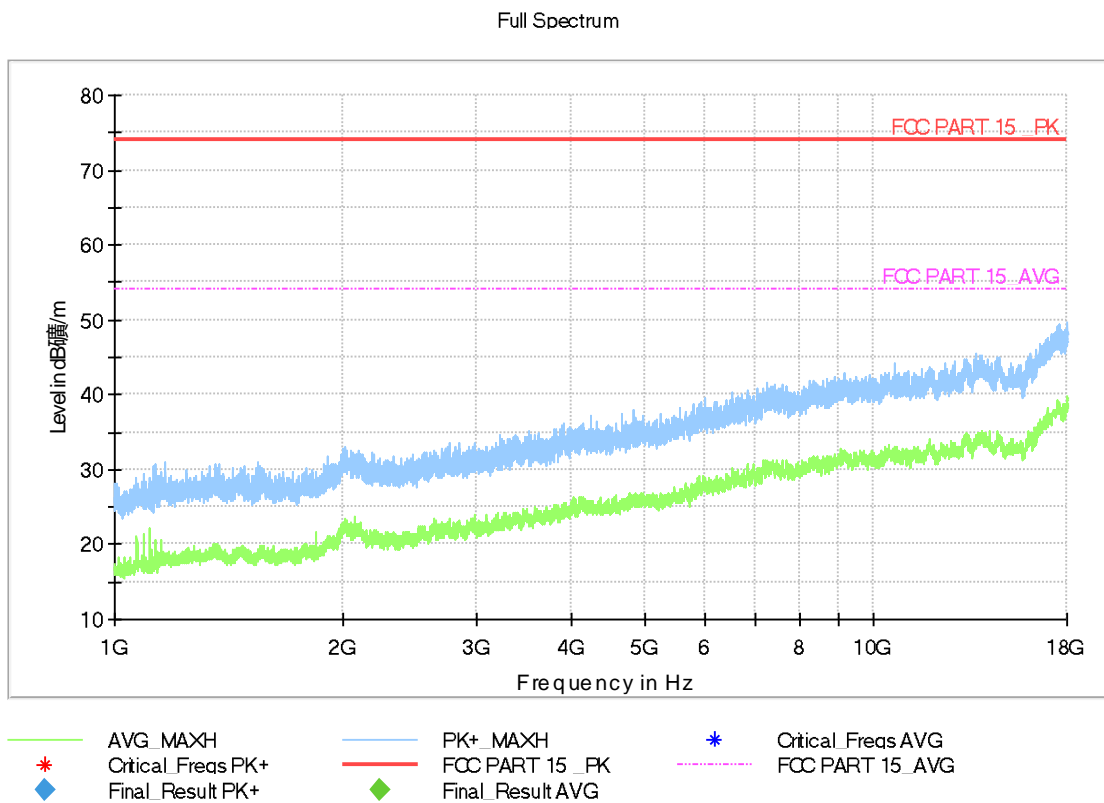


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2, Charger + Front Camera + WCDMA 850 idle:

Full Spectrum

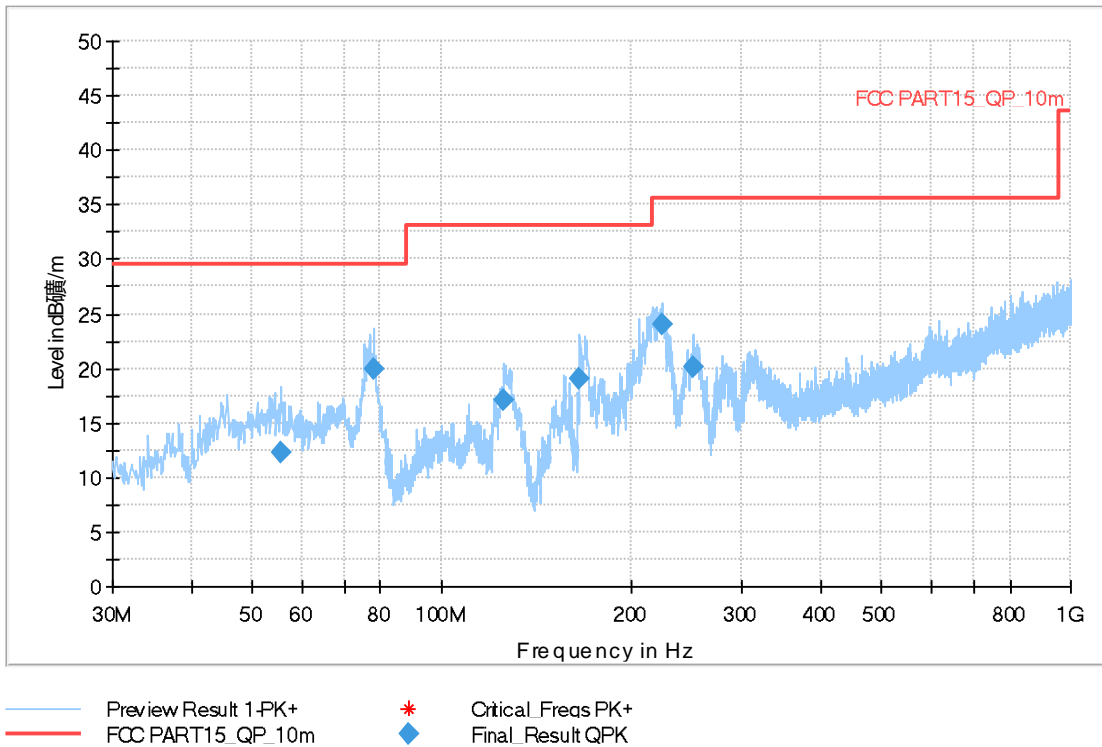


Fig A.3 Radiated Emission from 30MHz to 1GHz

Full Spectrum

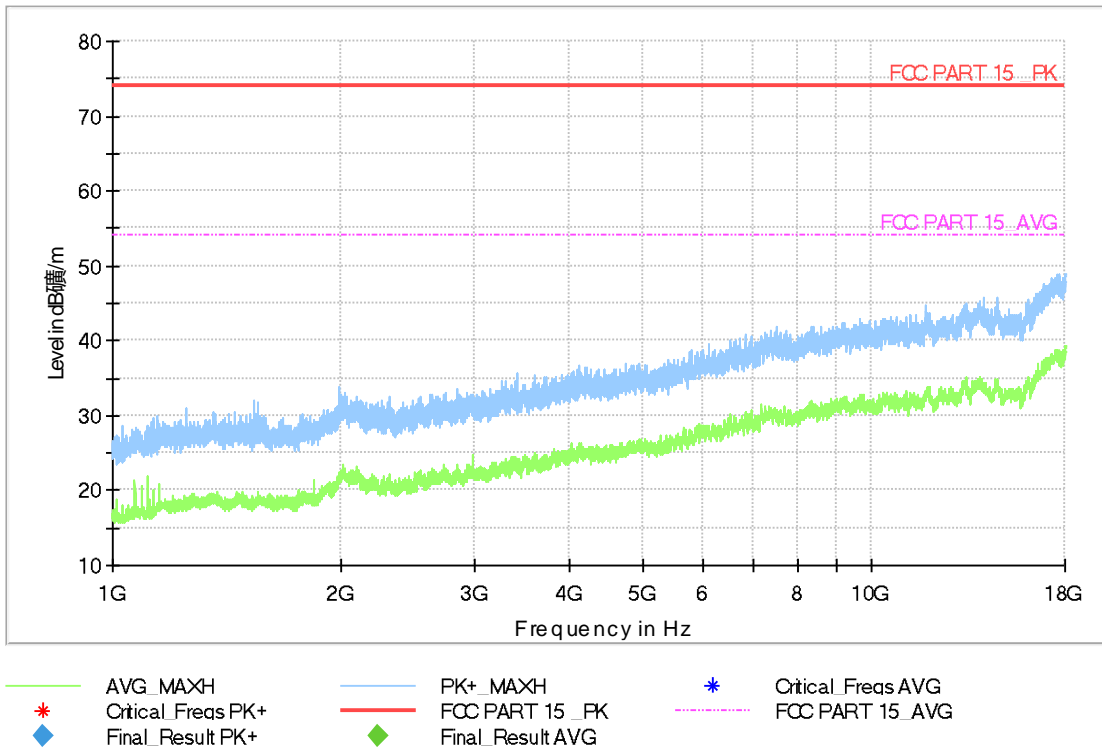


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2, Charger + MP4 + LTE band 5 idle:

Full Spectrum

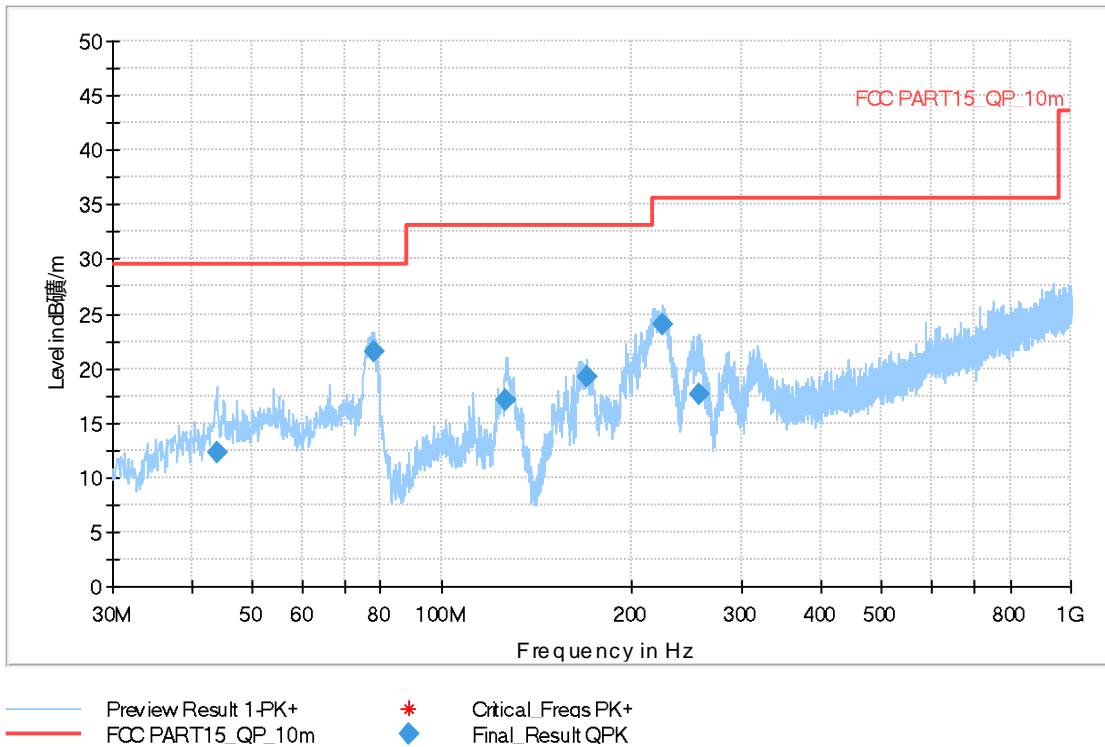


Fig A.5 Radiated Emission from 30MHz to 1GHz

Full Spectrum

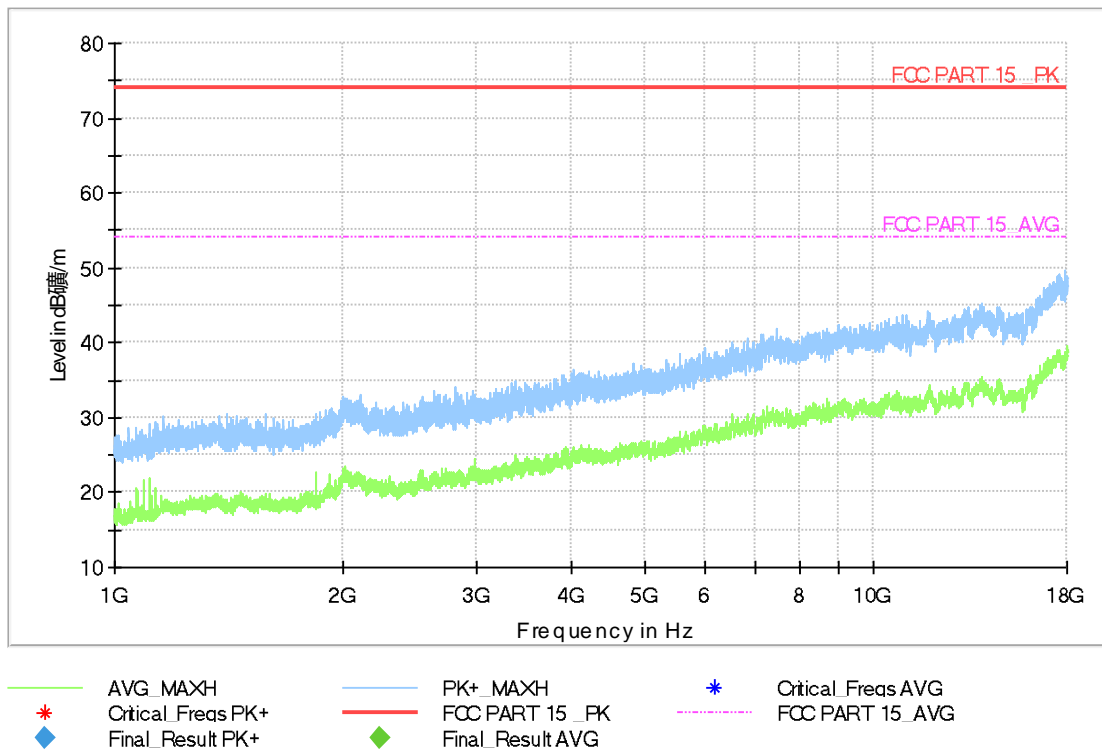


Fig A.6 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3, USB + LTE B12 idle:

Full Spectrum

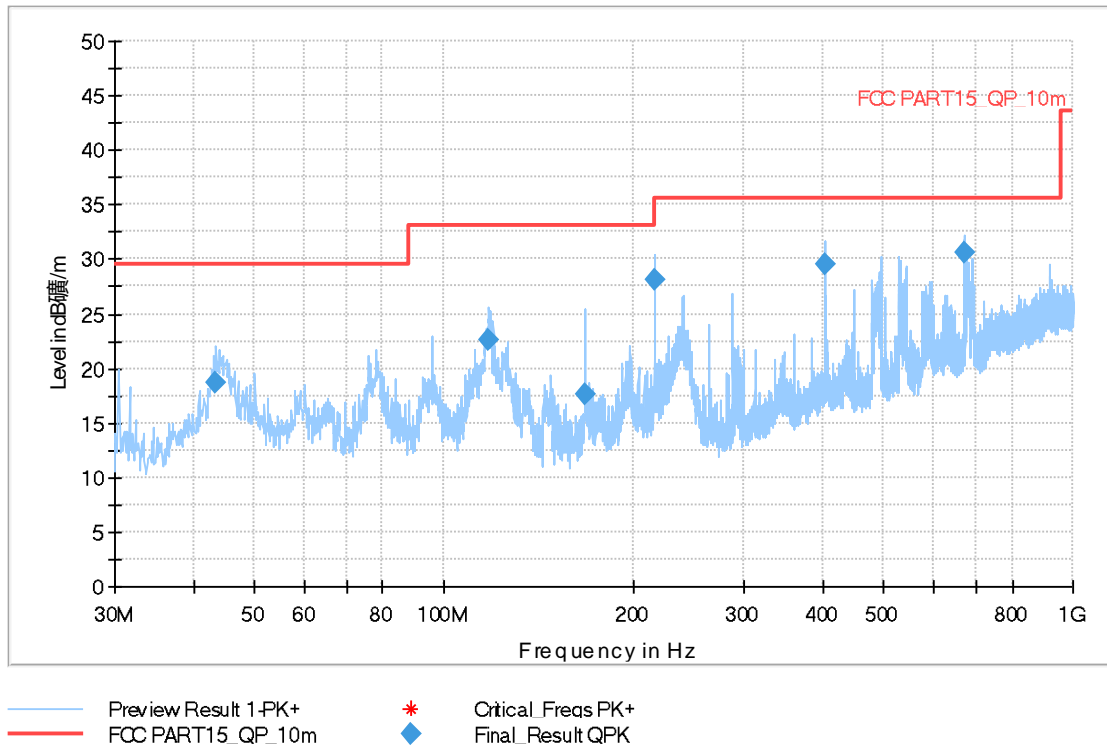


Fig A.7 Radiated Emission from 30MHz to 1GHz

Full Spectrum

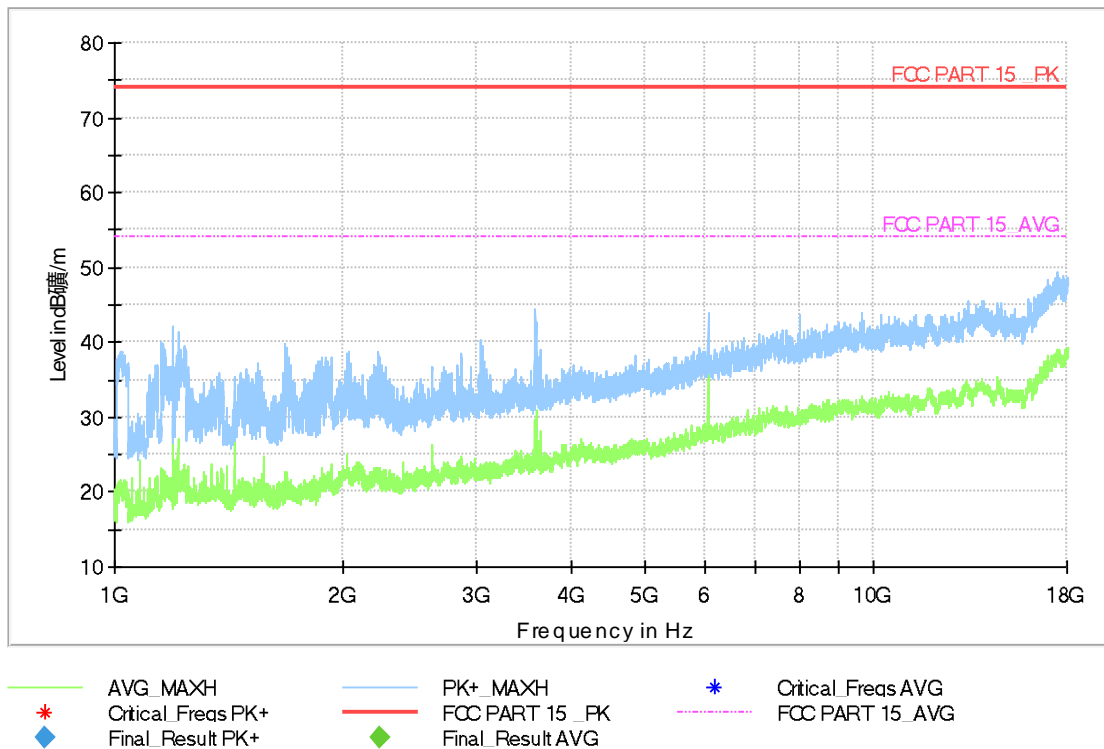


Fig A.8 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2, Charger + FM idle + LTE band13 idle:

Full Spectrum

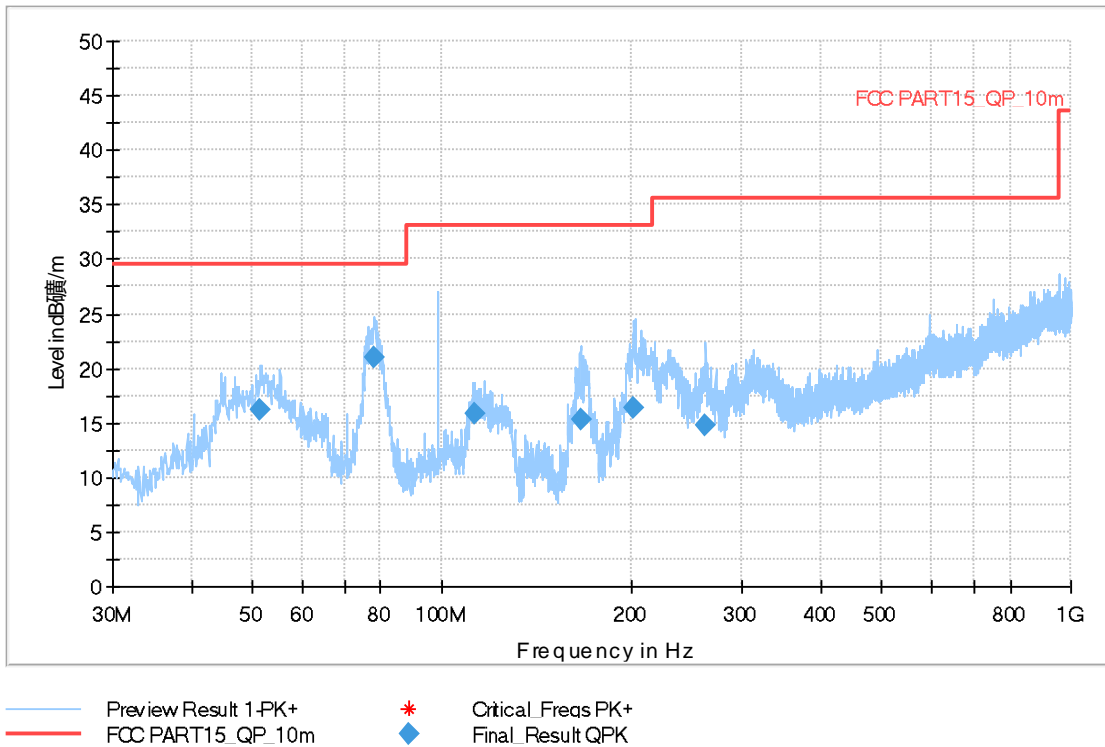


Fig A.9 Radiated Emission from 30MHz to 1GHz

Full Spectrum

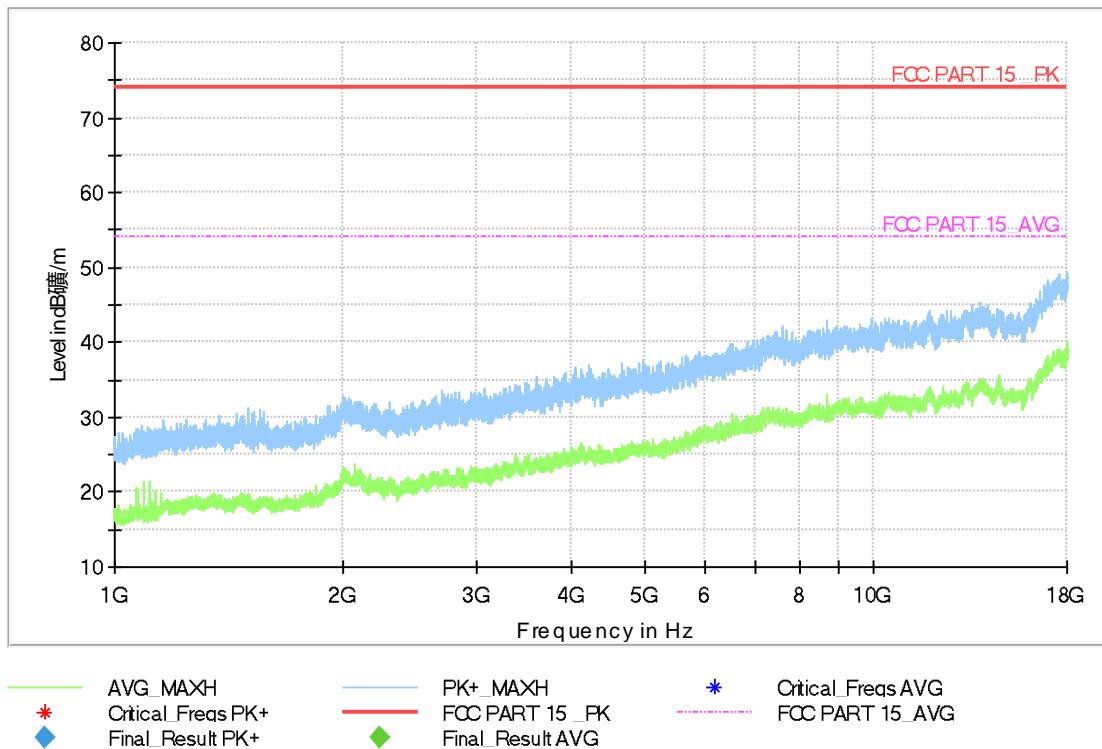


Fig A.10 Radiated Emission from 1GHz to 18GHz

A.2 Conducted Emission

Reference

FCC: CFR Part 15.107(a).

A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

A.2.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

A.2.4 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

A.2.5 Measurement Results

Measurement uncertainty: $U= 3.08 \text{ dB}$, $k=2$.

Measurement results for Set.2, Charger + REAR Camera + GSM 850 idle:

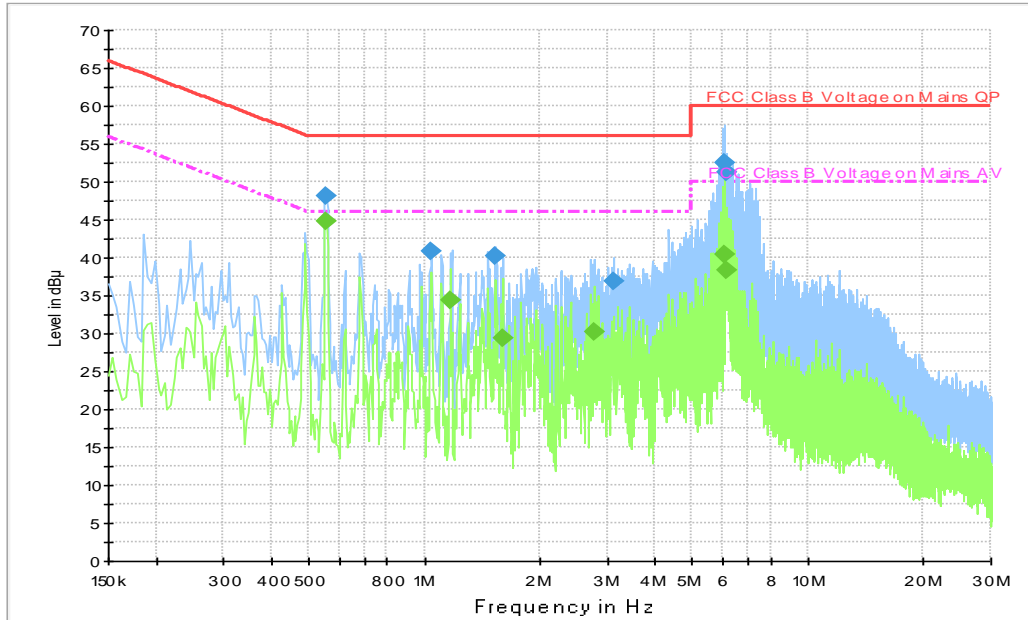


Fig A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	48.0	2000.0	9.000	On	L1	19.7	8.0	56.0
1.046000	40.8	2000.0	9.000	On	L1	19.7	15.2	56.0
1.530000	40.2	2000.0	9.000	On	L1	19.6	15.8	56.0
3.122000	37.0	2000.0	9.000	On	L1	19.6	19.0	56.0
6.054000	52.5	2000.0	9.000	On	L1	19.6	7.5	60.0
6.138000	51.2	2000.0	9.000	On	L1	19.6	8.8	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	44.8	2000.0	9.000	On	L1	19.7	1.2	46.0
1.170000	34.4	2000.0	9.000	On	L1	19.7	11.6	46.0
1.602000	29.4	2000.0	9.000	On	L1	19.6	16.6	46.0
2.770000	30.2	2000.0	9.000	On	L1	19.6	15.8	46.0
6.054000	40.4	2000.0	9.000	On	L1	19.6	9.6	50.0
6.166000	38.2	2000.0	9.000	On	L1	19.6	11.8	50.0

Measurement results for Set.2, Charger + Front camera+ WCDMA band 5 idle:

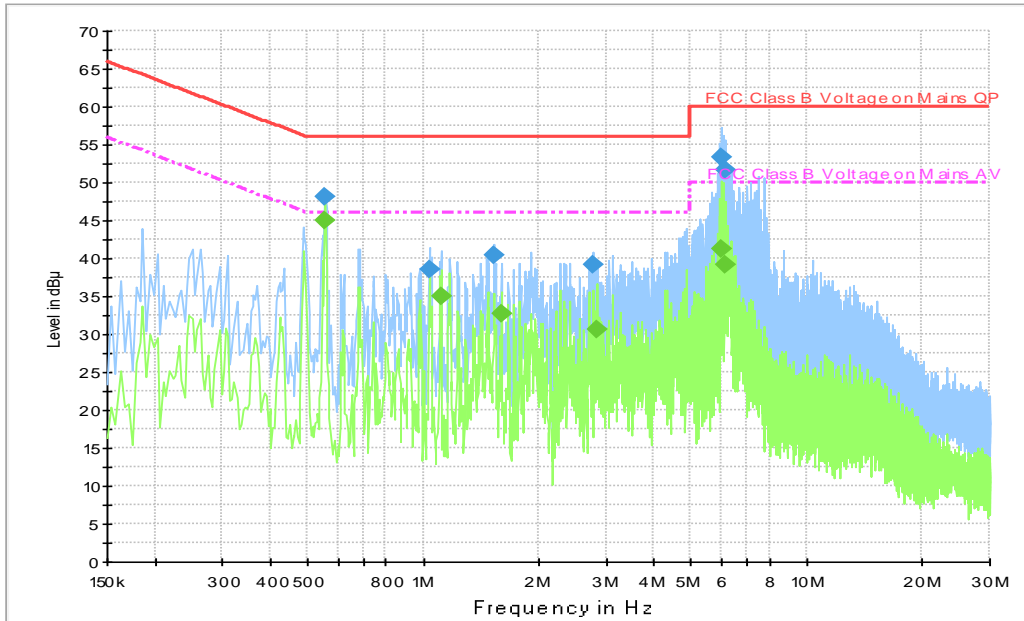


Fig A.12 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	48.1	2000.0	9.000	On	L1	19.7	7.9	56.0
1.038000	38.6	2000.0	9.000	On	L1	19.7	17.4	56.0
1.534000	40.3	2000.0	9.000	On	L1	19.6	15.7	56.0
2.766000	39.1	2000.0	9.000	On	L1	19.6	16.9	56.0
6.006000	53.3	2000.0	9.000	On	L1	19.6	6.8	60.0
6.134000	51.6	2000.0	9.000	On	L1	19.6	8.4	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	44.9	2000.0	9.000	On	L1	19.7	1.1	46.0
1.110000	34.9	2000.0	9.000	On	L1	19.6	11.1	46.0
1.594000	32.7	2000.0	9.000	On	L1	19.6	13.3	46.0
2.834000	30.5	2000.0	9.000	On	L1	19.6	15.5	46.0
5.994000	41.3	2000.0	9.000	On	L1	19.6	8.7	50.0
6.134000	39.1	2000.0	9.000	On	L1	19.6	10.9	50.0

Measurement results for Set.2, Charger + MP4+ LTE band 5 idle:

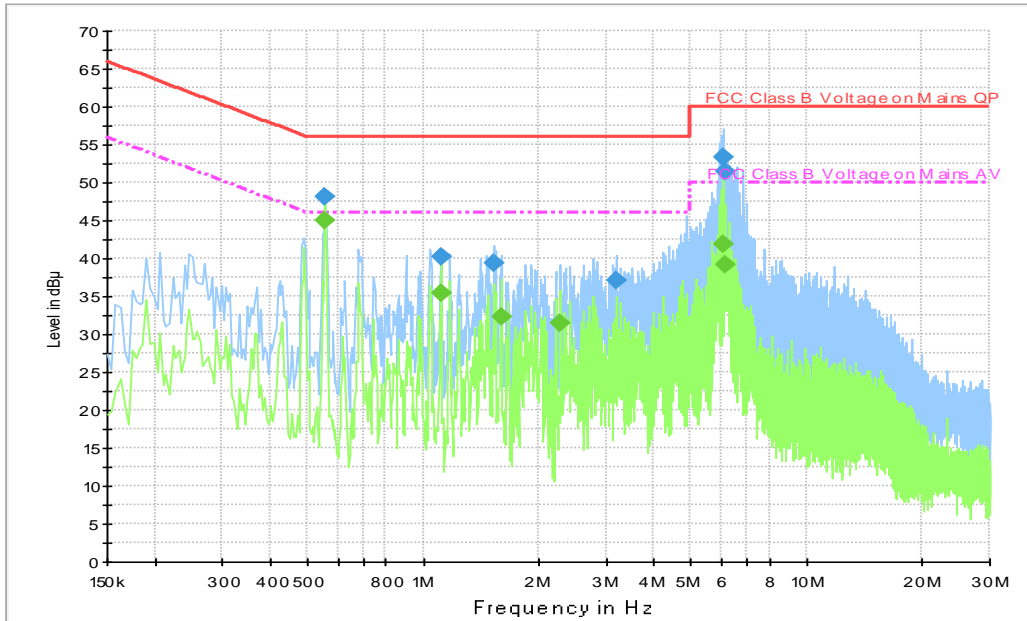


Fig A.13 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	48.2	2000.0	9.000	On	L1	19.7	7.8	56.0
1.110000	40.1	2000.0	9.000	On	L1	19.6	15.9	56.0
1.530000	39.4	2000.0	9.000	On	L1	19.6	16.6	56.0
3.194000	37.1	2000.0	9.000	On	L1	19.6	18.9	56.0
6.058000	53.3	2000.0	9.000	On	L1	19.6	6.7	60.0
6.142000	51.4	2000.0	9.000	On	L1	19.6	8.6	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.554000	45.0	2000.0	9.000	On	L1	19.7	1.0	46.0
1.110000	35.5	2000.0	9.000	On	L1	19.6	10.5	46.0
1.594000	32.3	2000.0	9.000	On	L1	19.6	13.7	46.0
2.278000	31.4	2000.0	9.000	On	L1	19.6	14.6	46.0
6.058000	41.9	2000.0	9.000	On	L1	19.6	8.1	50.0
6.142000	39.1	2000.0	9.000	On	L1	19.6	10.9	50.0

Measurement results for Set.3, USB+ LTE band 12 idle:

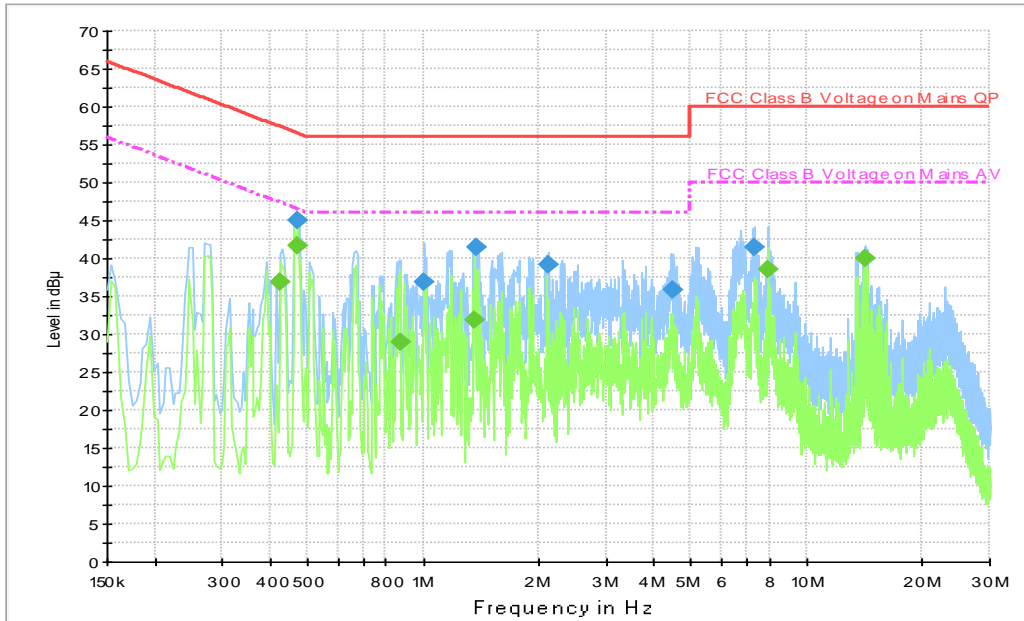


Fig A.14 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.470000	44.9	2000.0	9.000	On	N	19.7	11.6	56.5
1.010000	36.8	2000.0	9.000	On	N	19.6	19.2	56.0
1.374000	41.4	2000.0	9.000	On	L1	19.6	14.6	56.0
2.130000	39.1	2000.0	9.000	On	N	19.6	16.9	56.0
4.502000	35.8	2000.0	9.000	On	N	19.6	20.2	56.0
7.286000	41.5	2000.0	9.000	On	L1	19.6	18.5	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.426000	37.0	2000.0	9.000	On	L1	19.7	10.4	47.3
0.470000	41.6	2000.0	9.000	On	N	19.7	4.9	46.5
0.870000	29.1	2000.0	9.000	On	N	19.6	16.9	46.0
1.354000	31.9	2000.0	9.000	On	L1	19.6	14.1	46.0
7.922000	38.6	2000.0	9.000	On	L1	19.7	11.4	50.0
14.274000	40.0	2000.0	9.000	On	L1	19.7	10.0	50.0

Measurement results for Set.2, Charger + FM+ LTE band 13 idle:

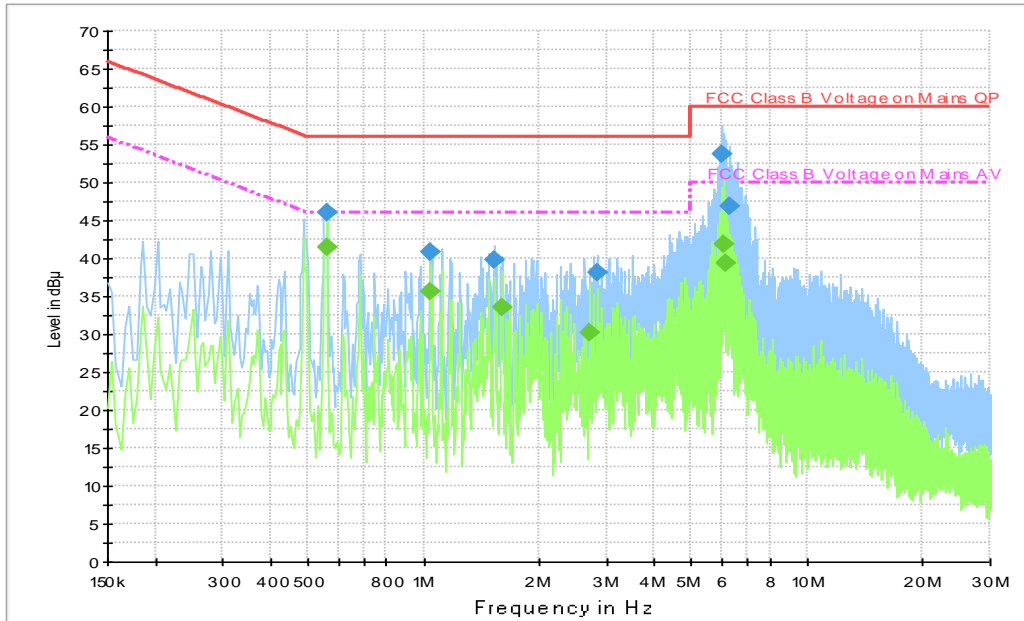


Fig A.15 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.558000	46.1	2000.0	9.000	On	L1	19.7	9.9	56.0
1.042000	40.8	2000.0	9.000	On	L1	19.7	15.2	56.0
1.534000	39.8	2000.0	9.000	On	L1	19.6	16.2	56.0
2.834000	38.1	2000.0	9.000	On	L1	19.6	17.9	56.0
6.006000	53.8	2000.0	9.000	On	L1	19.6	6.2	60.0
6.274000	46.9	2000.0	9.000	On	L1	19.6	13.1	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.558000	41.4	2000.0	9.000	On	L1	19.7	4.6	46.0
1.042000	35.7	2000.0	9.000	On	L1	19.7	10.3	46.0
1.598000	33.5	2000.0	9.000	On	L1	19.6	12.5	46.0
2.710000	30.3	2000.0	9.000	On	L1	19.6	15.7	46.0
6.062000	41.9	2000.0	9.000	On	L1	19.6	8.1	50.0
6.146000	39.4	2000.0	9.000	On	L1	19.6	10.6	50.0

ANNEX B: PERSONS INVOLVED IN THIS TESTING

Test Item	Test operator
Conducted Emission	Zhang Tianli
Radiated Emission	Zhang Tianli

*****END OF REPORT*****