



TEST REPORT

No. I20Z60295-EMC01

for

TCL Communication Ltd.

LTE/UMTS/GSM mobile phone

Model Name: 5007O

FCC ID: 2ACCJH123

with

Hardware Version: 01

Software Version: v5F5S

Issued Date: 2020-04-30

Note:

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Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z60295-EMC01	Rev.0	1 st edition	2020-04-21
I20Z60295-EMC01	Rev.1	Add the test equipment used in test report.	2020-04-30

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.

2. Test Laboratory

2.1. Testing Location

CTTL(huayuan North Road)

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

2.2. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

2.3. Project data

Testing Start Date: 2020-03-11
Testing End Date: 2020-04-10

2.4. Signature



An Hui
(Prepared this test report)



Zhang Ying
(Reviewed this test report)



Liu Baodian
Deputy Director of the laboratory
(Approved this test report)



3. Client Information

3.1. Applicant Information

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3.2. Manufacturer Information

Company Name: TCL Communication Ltd.
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4. Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1. About EUT

Description	LTE/UMTS/GSM mobile phone
Model Name	5007O
FCC ID	2ACCJH123
Extreme vol. Limits	3.6VDC to 4.2VDC (nominal: 3.8VDC)

4.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	/	/	/
EUT2	015683000201661	01	v5F5S

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

4.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	battery	/	/
AE2	Travel charger	/	/
AE3	USB Cable	/	/
AE4	Headset	/	/

AE1

Model	CAC3400011C1
Manufacturer	BYD
Capacitance	3400 mAh
Nominal voltage	/

AE2

Model	CBA0059AGAC5
Manufacturer	PUAN
Length of cable	

AE3

Model	CDA0000141C1
Manufacturer	JUWEI
Length of cable	

AE4

Model	Headset
Manufacturer	/
Length of cable	/

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

4.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+ AE1 + AE2 + AE3 + AE4	Charger +FM
Set.2	EUT1+ AE3	USB mode
Set.3	EUT2+ AE1 + AE2 + AE3 + AE4	Charger + FM
Set.4	EUT2+ AE1 + AE3	USB mode + CAMERA

Note: 5007O is a variant model based on A508DL, According to the declaration of changes provided by the applicant and FCC KDB publication 484596 D01. According to the declaration of changes, the following test items and test modes were performed:

Test Item	Mode or Feature	EUT Set-up
Radiated Emission	Charger + FM, GSM 900M,IDLE Charger + FM, LTE Band 12,IDLE	Set.3
	USB mode + CAMERA, WCDMA 850M,IDLE	Set.4

Other all results are cited from the initial model. The report number for initial model is I19Z61867-EMC01

5. Reference Documents

5.1. 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	2016
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.

6. 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 MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 10 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 6GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

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

7. 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)	A.1	P	CTTL(huayuan North Road)
2	Conducted Emission	15.107(a)	A.2	P	CTTL(huayuan North Road)

8. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CALIBRATION INTERVAL	CAL DUE DATE
1	LISN	ENV216	101200	R&S	1 year	2020-03-14
2	Test Receiver	ESCI 3	100344	R&S	1 year	2020-02-14
3	BiLog Antenna	VULB9163	9163-1222	Schwarzbeck	1 year	2020-03-14
4	Dual-Ridge Waveguide Horn Antenna	3115	6914	ETS-Lindgren	1 year	2020-1-3
5	Test Receiver	ESU26	100235	R&S	1 year	2020-3-1
6	PC	M4000E-17	M706GWXD	LENOVO	N/A	N/A
7	Printer	P1606dn	VNC3L52122	HP	N/A	N/A

Note: Above equipments is used in prototype report I19Z61867

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Test Receiver	ESU26	100344	R&S	2021-03-13	1 Year
2.	LISN	ENV216	101200	R&S	2020-04-27	1 Year
3.	EMI Antenna	VULB 9163	9163-483	Schwarzbeck	2020-09-16	1 Year
4.	Test Receiver	ESCI	100948	R&S	2020-07-11	1 Year
5.	Universal Radio Communication Tester	CMW500	150344	R&S	2020-11-17	1 Year

Note: Above equipments is used in prototype report I20Z60295

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 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) 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 model of the PC is M4000E-17, and the serial number of the PC is M706GWXD. 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 ($\mu\text{V}/\text{m}$)		
	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/1MHz	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 (worst case): $U = 5.44 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17962.600	45.4	-17.7	45.6	17.500	H	54.0	8.6
17955.233	45.3	-17.7	45.6	17.400	H	54.0	8.7
17958.633	45.2	-17.7	45.6	17.300	V	54.0	8.8
17928.600	45.2	-17.7	45.6	17.300	H	54.0	8.8
17961.467	45.2	-17.7	45.6	17.300	H	54.0	8.8
17962.600	45.4	-17.7	45.6	17.500	H	54.0	8.6

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17941.633	57.1	-17.7	45.6	29.200	H	74.0	16.9
17807.900	57.0	-18.5	45.6	29.900	H	74.0	17.0
17618.067	56.7	-18.9	45.6	30.000	V	74.0	16.3
17948.433	56.6	-17.7	45.6	28.700	H	74.0	16.4
17969.967	56.6	-17.7	45.6	28.700	H	74.0	16.4
17963.167	56.5	-17.7	45.6	28.600	H	74.0	16.5

Measurement results for Set.2:
USB Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
4804.600	49.7	-35.3	33.1	51.900	H	54.0	4.3
17959.200	45.6	-17.7	45.6	17.700	H	54.0	8.4
17822.633	45.6	-18.5	45.6	18.500	V	54.0	8.4
17936.533	45.3	-17.7	45.6	17.400	H	54.0	8.7
17943.333	45.3	-17.7	45.6	17.400	H	54.0	8.7
17954.100	45.3	-17.7	45.6	17.400	H	54.0	8.7

USB Mode/ Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
4804.600	58.0	-35.3	33.1	60.200	H	74.0	16.0
17818.667	57.0	-18.5	45.6	29.900	H	74.0	17.0
17968.267	56.8	-17.7	45.6	28.900	V	74.0	16.2
17696.267	56.7	-18.9	45.6	30.000	H	74.0	16.3
17856.067	56.7	-18.5	45.6	29.600	H	74.0	16.3
17614.667	56.6	-18.9	45.6	29.900	H	74.0	16.4

Measurement results for Set.3:
Charger + FM, GSM 900M,IDLE/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17999.433	34.1	-25.5	43.4	16.202	H	54	19.9
17990.367	33.7	-25.5	43.4	15.802	H	54	20.3
17948.433	33.7	-25.5	43.4	15.802	V	54	20.3
17960.333	33.7	-25.5	43.4	15.802	H	54	20.3
17907.067	33.5	-25.7	43.4	15.842	H	54	20.5
17947.867	33.5	-25.5	43.4	15.602	H	54	20.5

Charger + FM, GSM 900M,IDLE/ Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17989.800	44.9	-25.5	43.4	27.002	H	74	29.1
17920.100	44.8	-25.5	43.4	26.902	H	74	29.2
17984.133	44.7	-25.5	43.4	26.802	V	74	29.3
17772.767	44.6	-25.7	43.4	26.942	H	74	29.4
17754.633	44.6	-25.7	43.4	26.942	H	74	29.4
17966.000	44.5	-25.5	43.4	26.602	H	74	29.5

Measurement results for Set.3:
Charger + FM, LTE Band 12,IDLE/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17948.433	33.8	-25.5	43.4	15.902	H	54	20.2
17993.767	33.6	-25.5	43.4	15.702	H	54	20.4
17983.000	33.4	-25.5	43.4	15.502	V	54	20.6
17981.300	33.4	-25.5	43.4	15.502	H	54	20.6
17952.967	33.4	-25.5	43.4	15.502	H	54	20.6
17981.867	33.4	-25.5	43.4	15.502	H	54	20.6

Charger + FM, LTE Band 12,IDLE/ Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17905.933	44.8	-25.7	43.4	27.142	H	74	29.2
17782.967	44.7	-25.7	43.4	27.042	H	74	29.3
17972.800	44.6	-25.5	43.4	26.702	V	74	29.4
17907.633	44.6	-25.7	43.4	26.942	H	74	29.4
17890.633	44.2	-25.7	43.4	26.542	H	74	29.8
17909.900	44.1	-25.7	43.4	26.442	H	74	29.9

Measurement results for Set.4:
USB Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17981.300	33.6	-25.5	43.4	15.702	H	54	20.4
17985.833	33.5	-25.5	43.4	15.602	H	54	20.5
17995.467	33.5	-25.5	43.4	15.602	V	54	20.5
17972.233	33.5	-25.5	43.4	15.602	H	54	20.5
17998.867	33.5	-25.5	43.4	15.602	H	54	20.5
17989.800	33.5	-25.5	43.4	15.602	H	54	20.5

USB Mode/ Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17984.133	45.0	-25.5	43.4	27.102	H	74	29
17998.300	44.7	-25.5	43.4	26.802	H	74	29.3
17958.633	44.2	-25.5	43.4	26.302	V	74	29.8
17601.633	44.2	-26.9	43.4	27.652	H	74	29.8
17847.567	44.2	-25.7	43.4	26.542	H	74	29.8
17980.733	44.1	-25.5	43.4	26.202	H	74	29.9

Charging Mode, Set.1

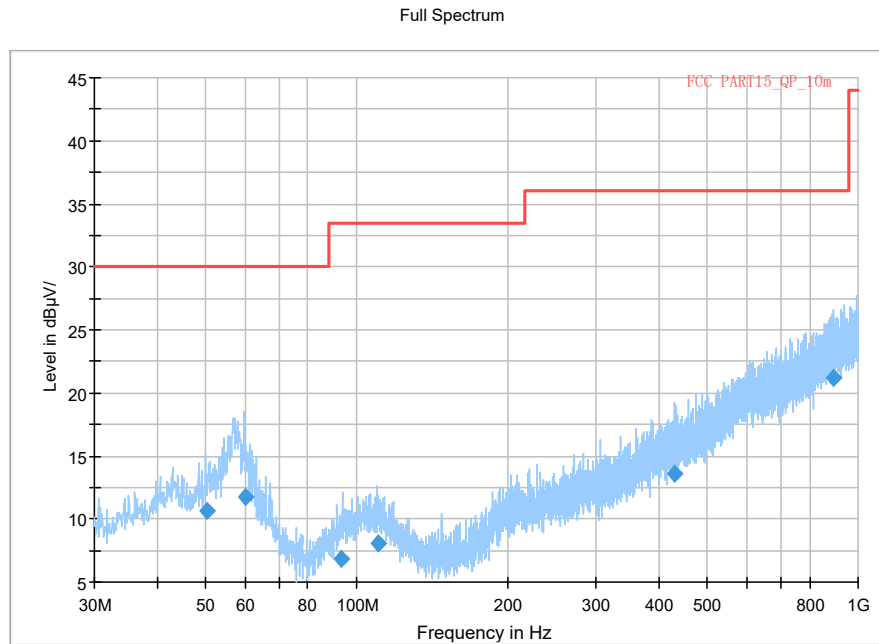


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
50.365000	10.69	30.00	19.31	1000.0	120.000	116.0	V	300.0
60.185000	11.74	30.00	18.26	1000.0	120.000	125.0	V	263.0
93.415000	6.88	33.50	26.64	1000.0	120.000	125.0	V	120.0
110.228000	8.07	33.50	25.45	1000.0	120.000	108.0	V	205.0
429.423000	13.58	36.00	22.44	1000.0	120.000	190.0	V	78.0
891.337000	21.23	36.00	14.79	1000.0	120.000	105.0	V	-18.0

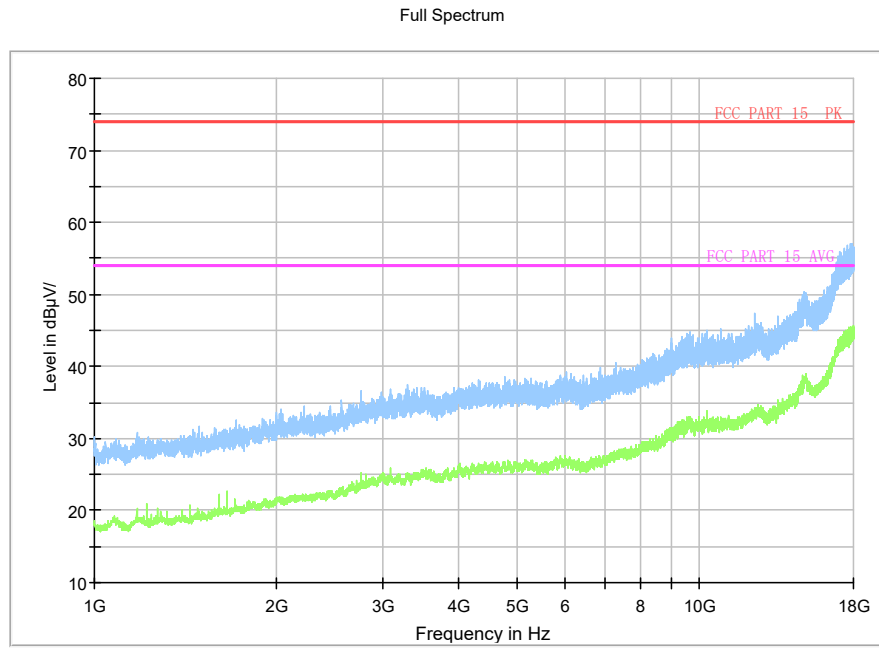


Fig A.2 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.2

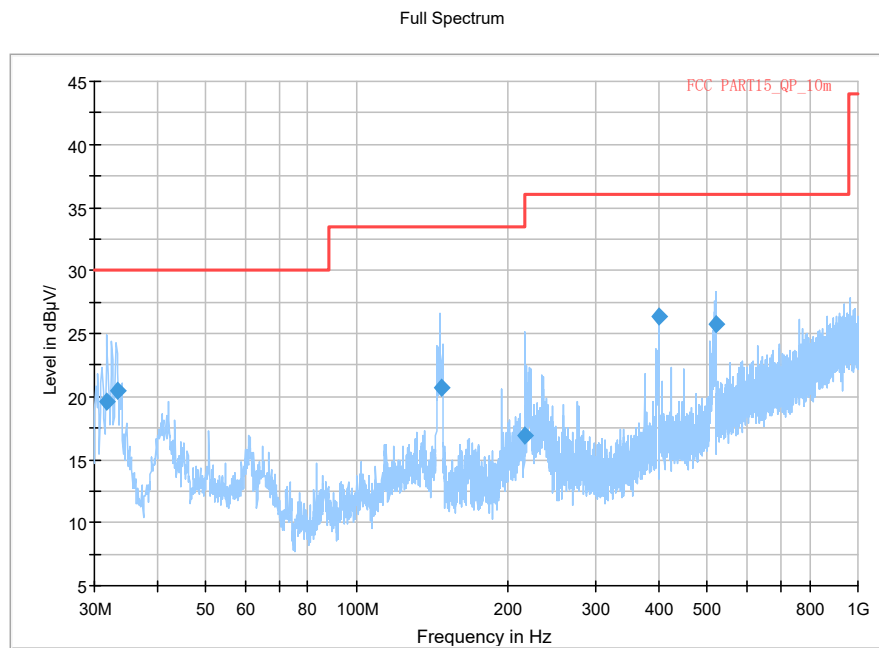


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.806000	19.57	30.00	10.43	1000.0	120.000	221.0	V	210.0
33.321000	20.49	30.00	9.51	1000.0	120.000	102.0	V	176.0
147.194000	20.70	33.50	12.82	1000.0	120.000	125.0	V	154.0
216.605000	16.95	36.00	19.07	1000.0	120.000	325.0	V	-16.0
399.995000	26.38	36.00	9.64	1000.0	120.000	103.0	V	270.0
519.947000	25.76	36.00	10.26	1000.0	120.000	278.0	V	-1.0

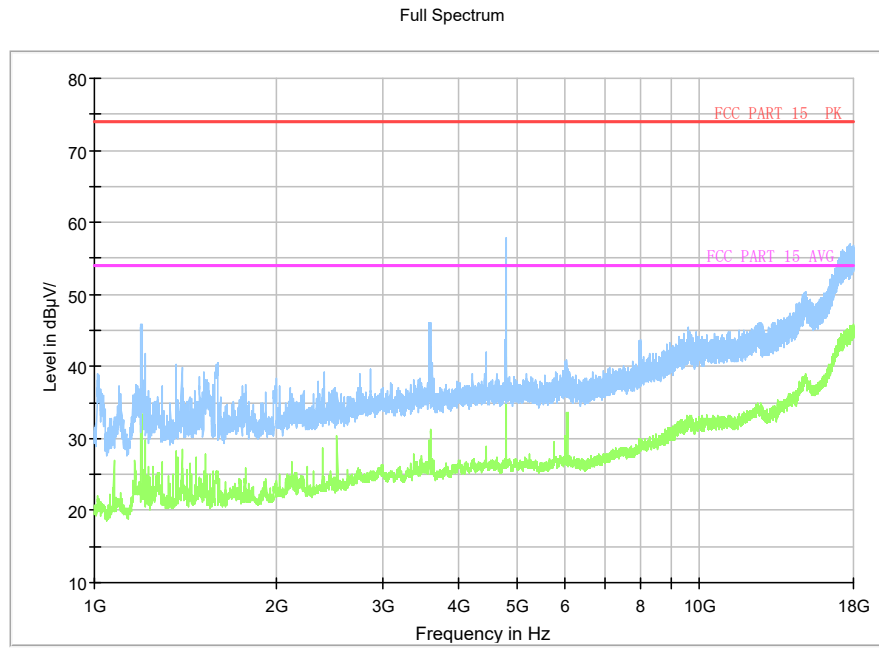


Fig A.4 Radiated Emission from 1GHz to 8GHz

Charger + FM, GSM 900M,IDLE, Set.3

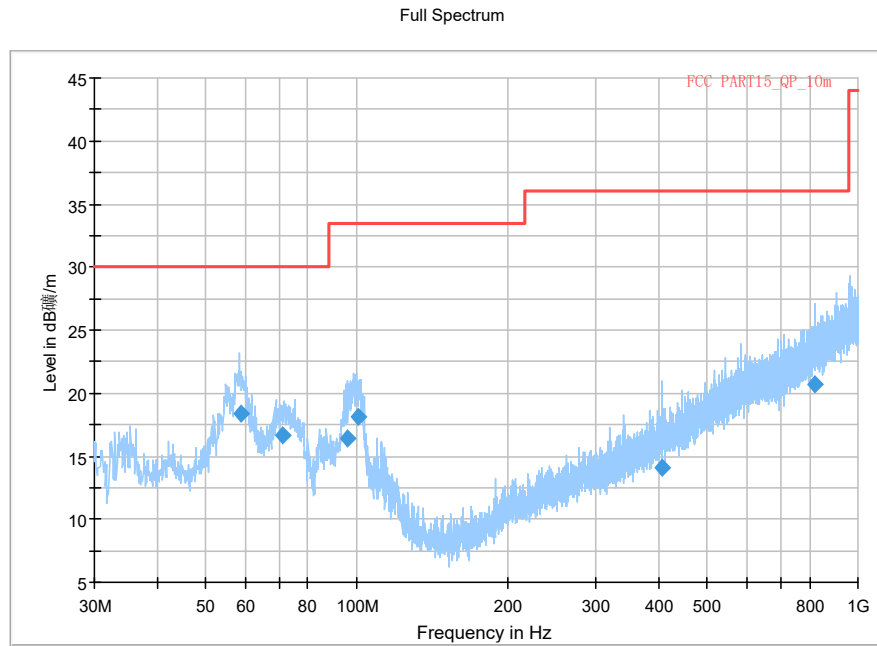


Figure A.5 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
58.684000	18.39	30.00	11.61	301.0	V	30.0
70.952000	16.64	30.00	13.36	184.0	V	99.0
96.163000	16.44	33.50	17.08	225.0	V	19.0
100.750000	18.17	33.50	15.35	102.0	V	240.0
405.764000	14.10	36.00	21.92	400.0	V	-3.0
822.513000	20.75	36.00	15.27	377.0	V	8.0

Full Spectrum

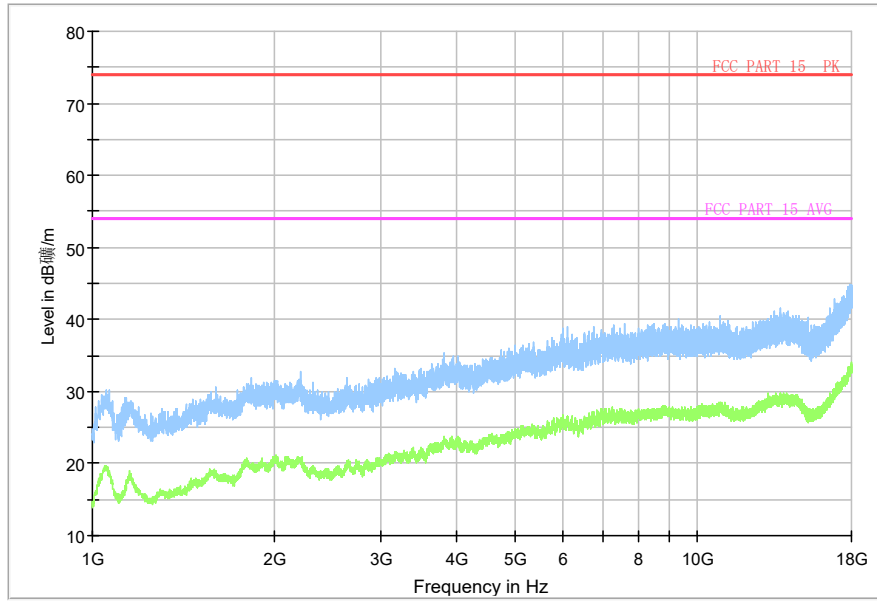
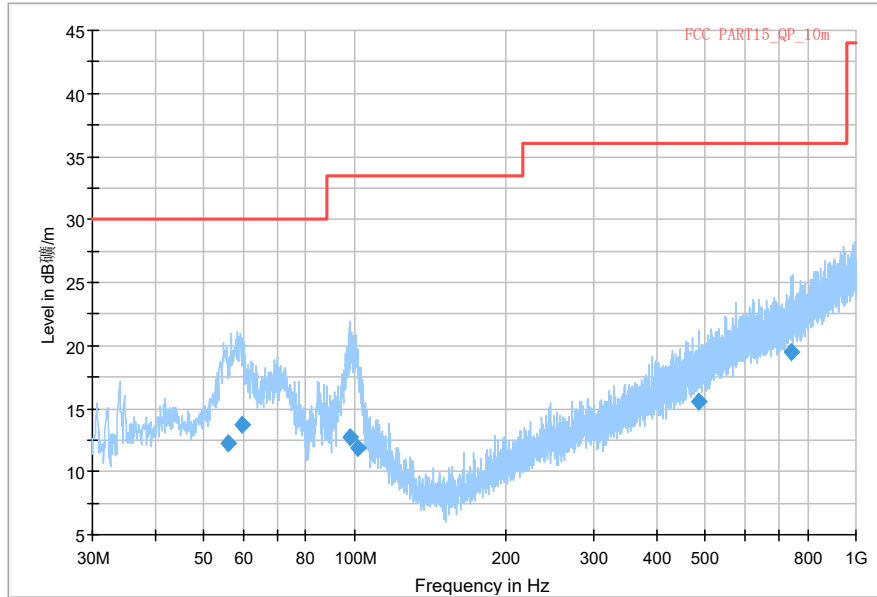


Figure A.6 Radiated Emission from 1GHz to 18GHz

USB mode + CAMERA, WCDMA 850M,IDLE, Set.4

Full Spectrum


Figure A.7 Radiated Emission from 30MHz to 1GHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
55.871000	12.30	30.00	17.70	1000.0	120.000	325.0	V	30.0
59.682000	13.72	30.00	16.28	1000.0	120.000	312.0	V	6.0
98.103000	12.70	33.50	20.82	1000.0	120.000	125.0	V	7.0
101.170000	11.92	33.50	21.60	1000.0	120.000	107.0	V	7.0
485.184000	15.55	36.00	20.47	1000.0	120.000	179.0	H	14.0
743.370000	19.53	36.00	16.49	1000.0	120.000	124.0	H	-30.0

Full Spectrum

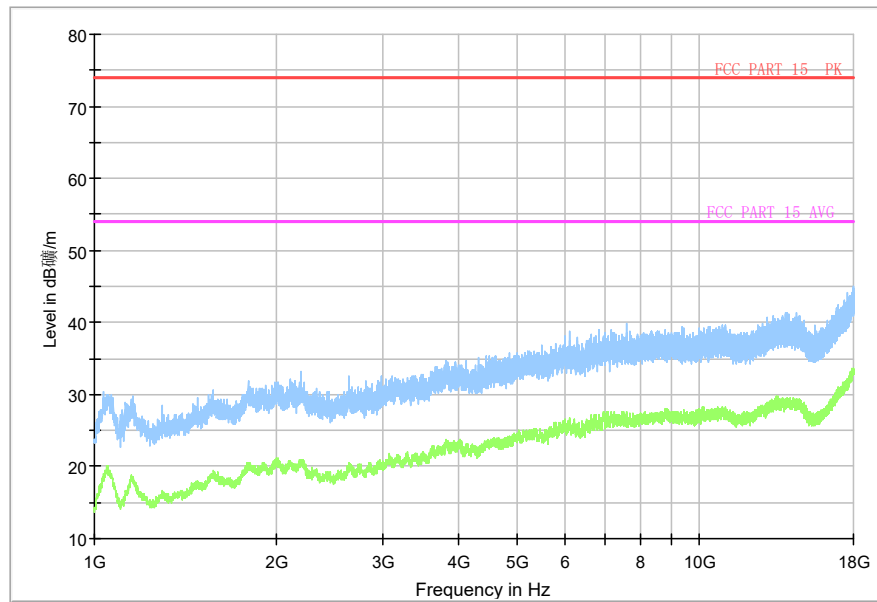


Figure A.8 Radiated Emission from 1GHz to 18GHz

Charger + FM, LTE Band 12, IDLE, Set.3

Full Spectrum

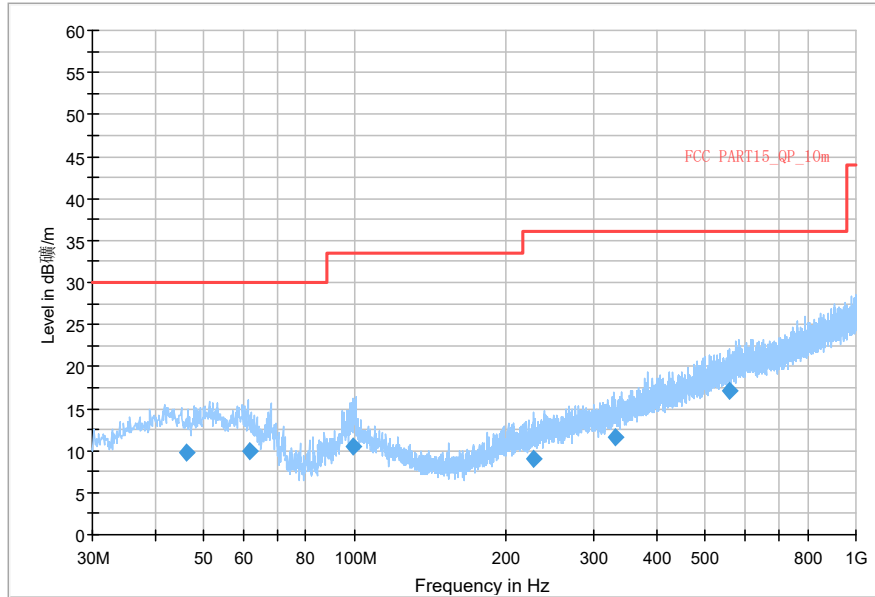


Figure A.9 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.107000	9.82	30.00	20.18	1000.0	120.000	400.0	V	108.0
61.968000	10.01	30.00	19.99	1000.0	120.000	125.0	V	172.0
99.138000	10.45	33.50	23.07	1000.0	120.000	225.0	V	12.0
228.023000	9.05	36.00	26.97	1000.0	120.000	325.0	V	201.0
330.344000	11.66	36.00	24.36	1000.0	120.000	218.0	H	253.0
558.151000	17.05	36.00	18.97	1000.0	120.000	295.0	H	79.0

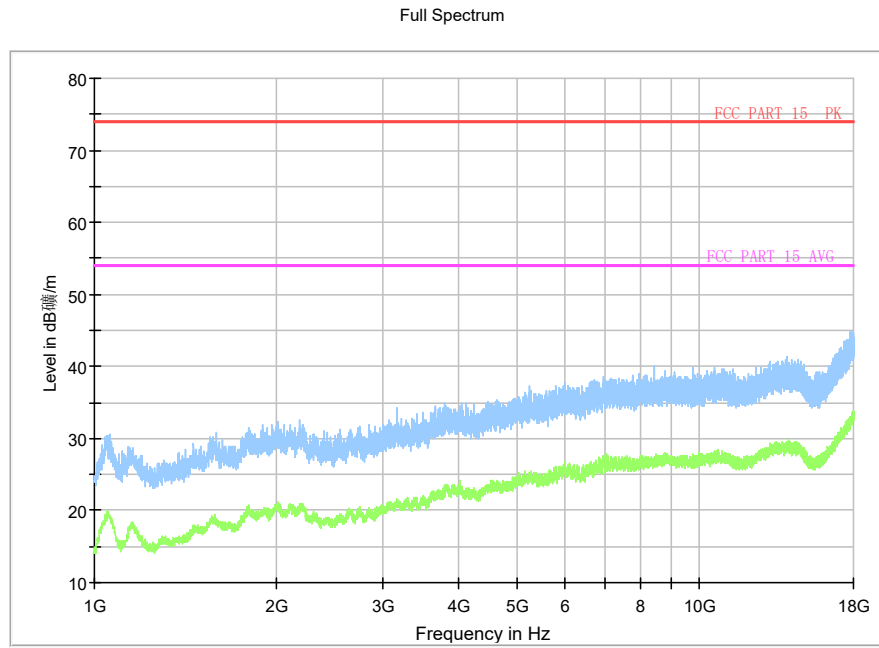


Figure A.10 Radiated Emission from 1GHz to 18GHz

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 model of the PC is DELL M4000E-17, and the serial number of the PC is M706GWXD. 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: $U = 3.38 \text{ dB}$, $k=2$.

Charging Mode, Set.1

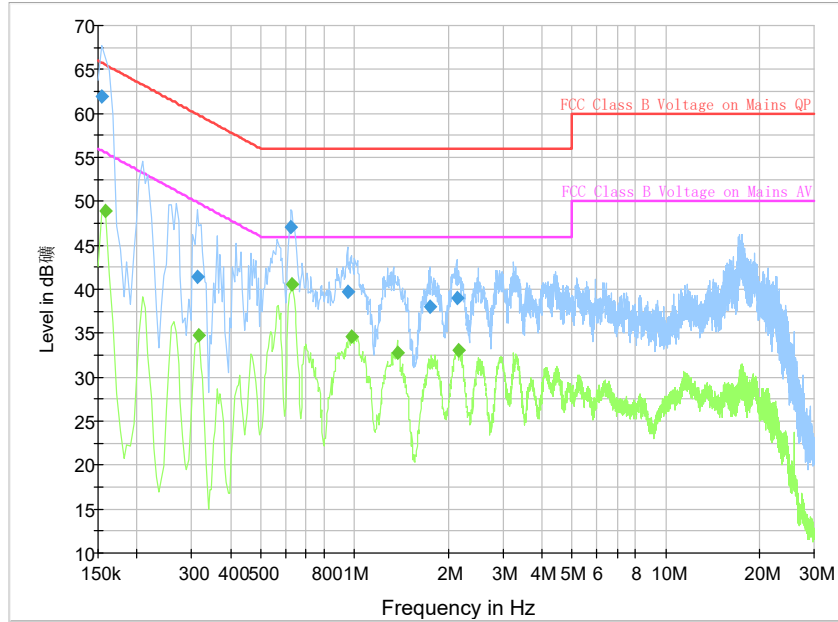


Fig A.5 Radiated Emission from 30MHz to 1GHz

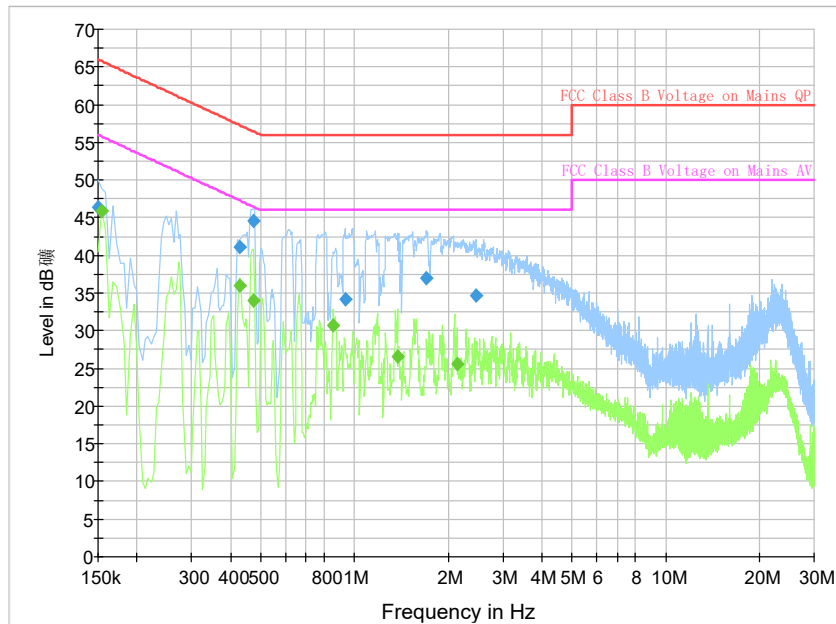
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154500	61.9	2000.0	9.000	On	L1	29.7	3.8	65.8
0.312000	41.4	2000.0	9.000	On	L1	19.8	18.5	59.9
0.627000	47.0	2000.0	9.000	On	N	19.8	9.0	56.0
0.951000	39.8	2000.0	9.000	On	N	19.7	16.2	56.0
1.743000	38.0	2000.0	9.000	On	N	19.6	18.0	56.0
2.134500	39.0	2000.0	9.000	On	N	19.6	17.0	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.159000	48.9	2000.0	9.000	On	N	28.7	6.6	55.5
0.316500	34.8	2000.0	9.000	On	N	19.8	15.0	49.8
0.631500	40.5	2000.0	9.000	On	N	19.8	5.5	46.0
0.982500	34.7	2000.0	9.000	On	N	19.7	11.3	46.0
1.374000	32.7	2000.0	9.000	On	N	19.6	13.3	46.0
2.152500	33.1	2000.0	9.000	On	N	19.6	12.9	46.0

Note: The measurement results showed here are worst cases of the combinations of different USB cables.

USB Mode, Set.2

Fig A.6 Radiated Emission from 30MHz to 1GHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	46.4	2000.0	9.000	On	N	30.6	19.6	66.0
0.429000	41.1	2000.0	9.000	On	L1	19.8	16.1	57.3
0.474000	44.5	2000.0	9.000	On	N	19.8	11.9	56.4
0.933000	34.2	2000.0	9.000	On	L1	19.7	21.8	56.0
1.702500	37.1	2000.0	9.000	On	L1	19.6	18.9	56.0
2.449500	34.6	2000.0	9.000	On	L1	19.6	21.4	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154500	45.9	2000.0	9.000	On	N	29.6	9.8	55.8
0.429000	36.0	2000.0	9.000	On	N	19.8	11.3	47.3
0.474000	34.0	2000.0	9.000	On	N	19.8	12.4	46.4
0.856500	30.8	2000.0	9.000	On	N	19.7	15.2	46.0
1.378500	26.5	2000.0	9.000	On	N	19.6	19.5	46.0
2.139000	25.6	2000.0	9.000	On	N	19.6	20.4	46.0

Note: The measurement results showed here are worst cases of the combinations of different cables.



ANNEX B: PERSONS INVOLVED IN THIS TESTING

Test Item	Test Software and Version	Software Vendor	Test operator
Conducted Emission	EMC32 V8.5.1	R&S	Wang Huan
Radiated Emission	EMC32 V8.5.1	R&S	Shi Suo Lan

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