FCC PART 15B
TEST REPORT

No. 24T04Z103042-026

for

TCL Communication Ltd.

GSM/UMTS/LTE mobile phone

T626K

FCC ID: 2ACCJB232

with

Hardware Version: 05

Software Version: v3LA8

Issued Date: 2025-02-18

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z103042-026	Rev.0	1st edition	2025-02-18

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

CONTENTS

1. Test Laboratory

1.1. Testing Location

CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

1.2. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2025-01-24

Testing End Date: 2025-02-08

1.4. Signature

Wang Xue

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

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Contact Email:	ting.wang.hz@tcl.com
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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
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Fax:	0086-755-36612000-81722

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

3.1. About EUT

Description	GSM/UMTS/LTE mobile phone
Model Name	T626K
FCC ID:	2ACCJB232

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
UT23a	355077160000658/355077160000732	05	v3LA8

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery1	TLp050B9	Guangdong Fenghua New Energy Co.,Ltd.
AE2	Battery2	TLp050B7	Dongguan Veken Battery CO.,LTD.
AE3	Charger1	QC16US-N	ShenZhenBaiJunDaElectronicsCO.,LTD.
AE4	USB Cable1	01.07.11.00162	Guangdong Wivtak Technology Co., Ltd.
AE5	Headset	01.07.12.00065	Guangdong Wivtak Technology Co., Ltd.

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

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	UT35a + AE1/2 +AE3+AE4	Charger1+MP3+F Camera +GSM 850 idle
Set.2	UT35a + AE1/2 +AE3+AE4	Charger1+R Camera + WCDMA B5 idle
Set.3	UT35a + AE1/2 +AE4+AE5	USB + FM + LTE B5 idle

Note:

Equipment Under Test (EUT) is a model of GSM/UMTS/LTE mobile phone.

It supports

GSM Band	850/900/1800/1900
UMTS Band	FDD Band I(W2100) /FDD Band II(W1900) /FDD Band IV(W1700)/FDD V(W850) /FDD VIII(W900)
LTE Band	FDD Bands 1/2/3/4/5/7/8/12/13/17/20/26/28/66, TDD Bands 38/40/41

It has MP3, Camera, USB memory, Bluetooth 5.1, Wi-Fi (802.11a/b/g/n/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz, 40MHz and 80MHz bandwidth) and GNSS function.

The device contains receivers which tune and operate between 30MHz-960MHz in the following

mode: GSM 850, WCDMA850, LTE Band 5/12/13/26, FM. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are reported.

Both two chargers were evaluated, only the worst cases were reported.

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	2024
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. 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 North Road)**
2	Conducted Emission	15.107(a)	B.2	P	**CTTL(huayuan North Road)**

6. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103023	R&S	2025-06-06	1 year
2	Test Receiver	ESCI 3	100344	R&S	2025-04-01	1 year
3	LISN	ENV216	101200	R&S	2025-05-16	1 year
4	EMI Antenna	VULB 9163	01222	SCHWARZBECK	2025-09-11	1 year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2025-04-11	1 year
6	Universal Communication Tester	CMW500	163975	R&S	2026-01-20	1 year
7	Signal Generator	SMT06	831285/005	R&S	2026-01-19	1 year
8	Broadcast Test Center	BTC	101024	R&S	2025-04-01	1 year

Test software information		
Test Item	Software	Version
Radiated Emission	EMC32	V11.50.00
Conducted Emission	EMC32	V8.53.00

Semi-anechoic chamber utilized did not exceed following limits along the testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
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

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

Temperature	Min. = 15 ℃, Max. = 35 ℃
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. Measurement Uncertainty

Where relevant, the following measurement uncertainty(worse case) levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Location 1: CTTL(huayuan North Road)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.72dB(*k*=2)
	1GHz-18GHz	4.84dB(*k*=2)
Conducted Emission	150kHz-30MHz	AC Power Line: 3.08dB(*k*=2)

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/OTG mode of MS and charging mode of MS) at distances of 3 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 the other device for charging in OTG mode and is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode. 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.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

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.

The EUT was tested while operating in licensed band Rx mode. 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.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit (μV/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:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Measurement results for Set.1:

Charing Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.2	44.68	-26.8	42.3	29.18	54	9.32	H
17946.3	44.41	-26.8	42.3	28.91	54	9.59	V
17942.9	44.39	-26.8	42.3	28.89	54	9.61	V
17982.7	44.38	-26.8	42.3	28.88	54	9.62	V
17952.7	44.36	-26.8	42.3	28.86	54	9.64	H
17907.2	44.3	-26.8	42.3	28.8	54	9.7	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.3	55.33	-26.8	42.3	39.83	74	18.67	V
17893.6	55.28	-26.8	42.3	39.78	74	18.72	V
17913.6	55.18	-26.8	42.3	39.68	74	18.82	V
17885.1	55.06	-26.8	42.3	39.56	74	18.94	H
17910.2	54.92	-26.8	42.3	39.42	74	19.08	H
17967.4	54.85	-26.8	42.3	39.35	74	19.15	H

Measurement results for Set.2:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.4	44.38	-26.8	42.3	28.88	54	9.62	V
17973.8	44.35	-26.8	42.3	28.85	54	9.65	H
17982.3	44.31	-26.8	42.3	28.81	54	9.69	V
17971.8	44.29	-26.8	42.3	28.79	54	9.71	V
17918.1	44.27	-26.8	42.3	28.77	54	9.73	H
17978.9	44.24	-26.8	42.3	28.74	54	9.76	H

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.6	55.46	-26.8	42.3	39.96	74	18.54	V
17982.3	55.3	-26.8	42.3	39.8	74	18.7	V
17902.8	55.27	-26.8	42.3	39.77	74	18.73	H
17914.3	55.11	-26.8	42.3	39.61	74	18.89	V
17930	55.09	-26.8	42.3	39.59	74	18.91	V
17901.4	55.06	-26.8	42.3	39.56	74	18.94	V

Measurement results for Set.3:

USB Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
6055.5	48.13	-36.15	35.4	48.88	54	5.87	V
6055.1	46.83	-36.15	35.4	47.58	54	7.17	V
6055.8	46.83	-36.15	35.4	47.58	54	7.17	V
17925.5	44.66	-26.8	42.3	29.16	54	9.34	V
6056.1	44.59	-36.15	35.4	45.34	54	9.41	V
17937.8	44.42	-26.8	42.3	28.92	54	9.58	H

USB Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
1199.2	56.44	-39.88	24.7	71.62	74	17.56	V
17608.3	55.56	-28.23	42.2	41.59	74	18.44	H
17924.5	55.32	-26.8	42.3	39.82	74	18.68	H
17978.2	55.23	-26.8	42.3	39.73	74	18.77	H
17976.9	55.15	-26.8	42.3	39.65	74	18.85	V
17785.8	55.14	-26.8	42.3	39.64	74	18.86	H

Measurement results for Set.1:

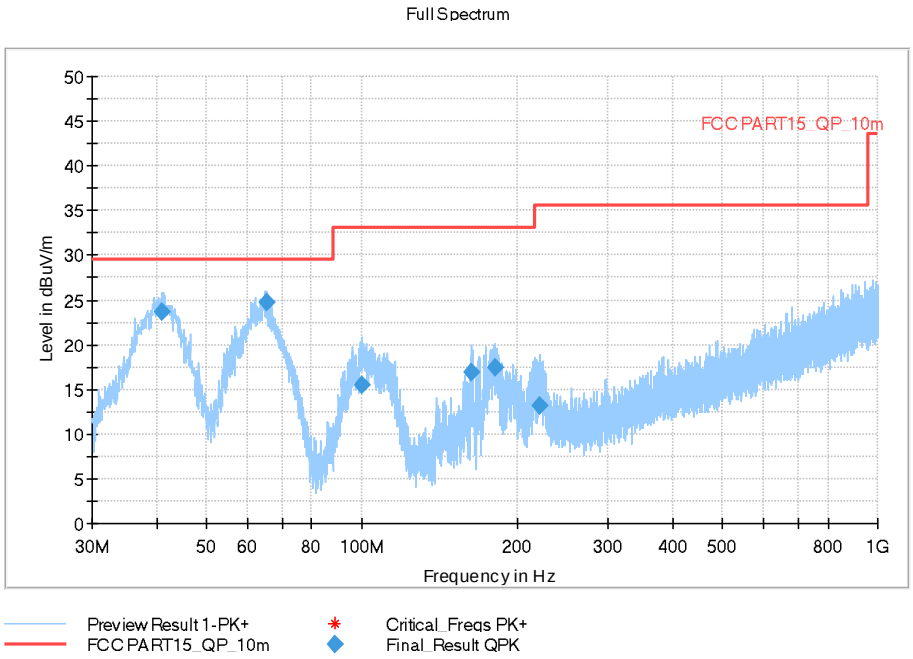

Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.961000	23.61	29.54	5.93	120.000	179.0	V	45.0
65.211000	24.69	29.54	4.85	120.000	101.0	V	-36.0
100.179500	15.44	33.06	17.62	120.000	184.0	V	150.0
163.520500	16.88	33.06	16.18	120.000	102.0	V	-8.0
181.708000	17.41	33.06	15.65	120.000	101.0	V	61.0
221.478000	13.11	35.56	22.45	120.000	121.0	V	143.0

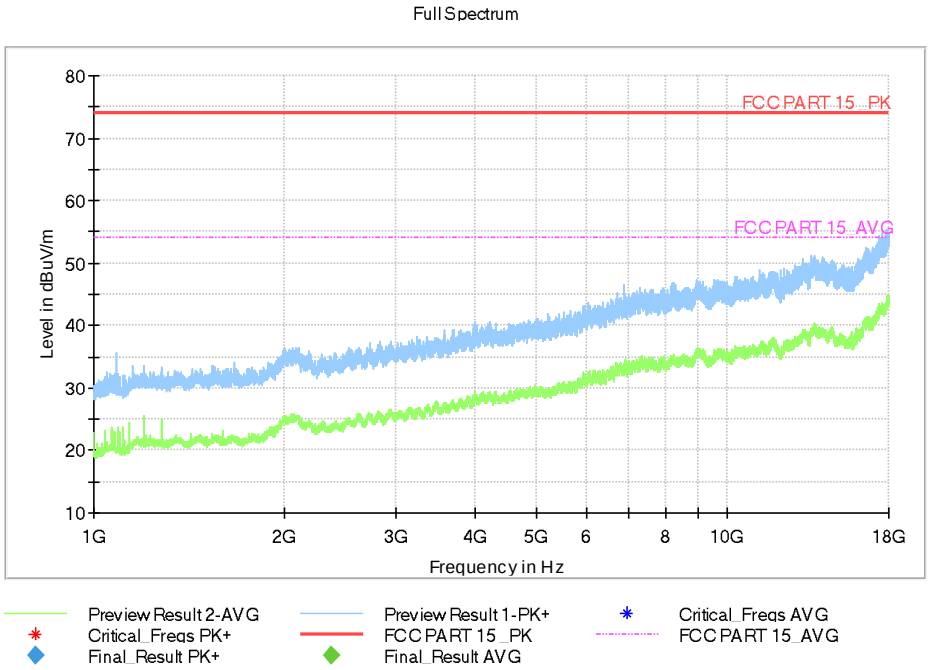

Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

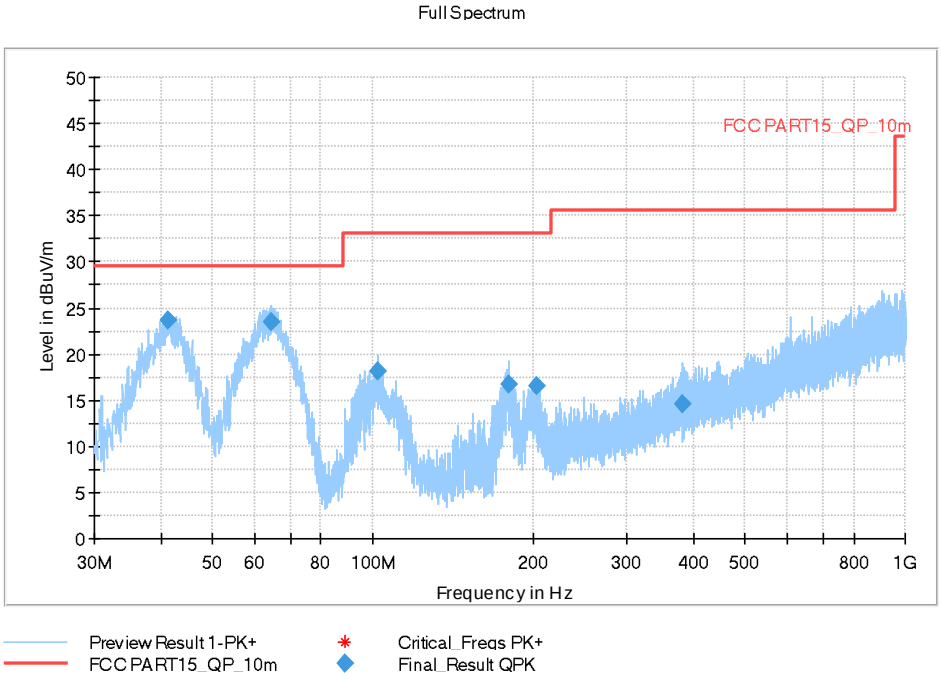

Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.349000	23.67	29.54	5.87	120.000	176.0	V	15.0
64.629000	23.54	29.54	6.00	120.000	100.0	V	291.0
102.507500	18.19	33.06	14.87	120.000	125.0	V	158.0
179.574000	16.79	33.06	16.27	120.000	109.0	V	69.0
203.048000	16.56	33.06	16.50	120.000	100.0	V	67.0
380.800500	14.57	35.56	20.99	120.000	125.0	V	45.0

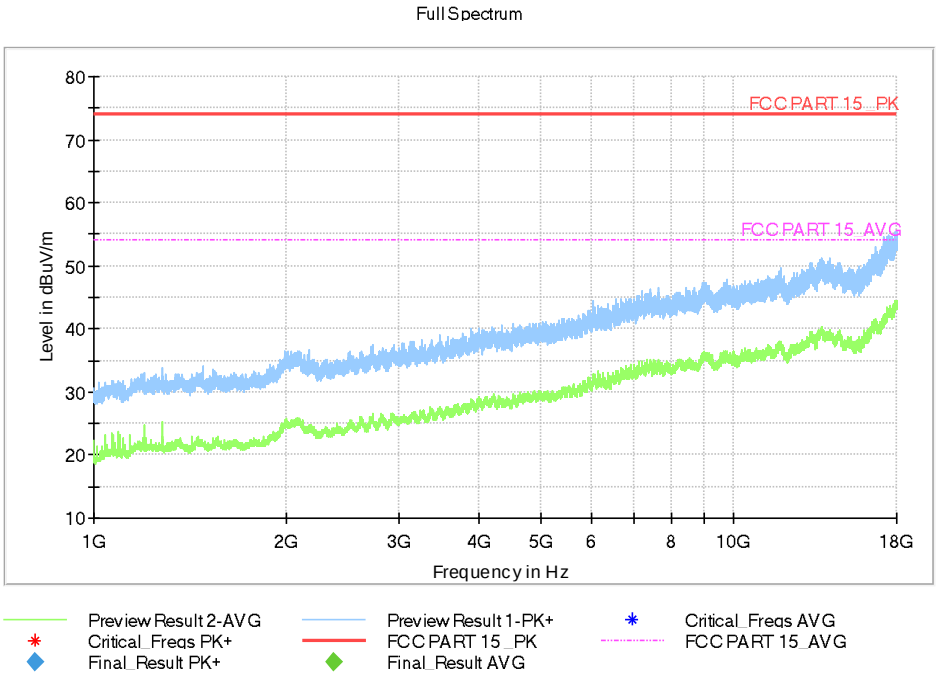

Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

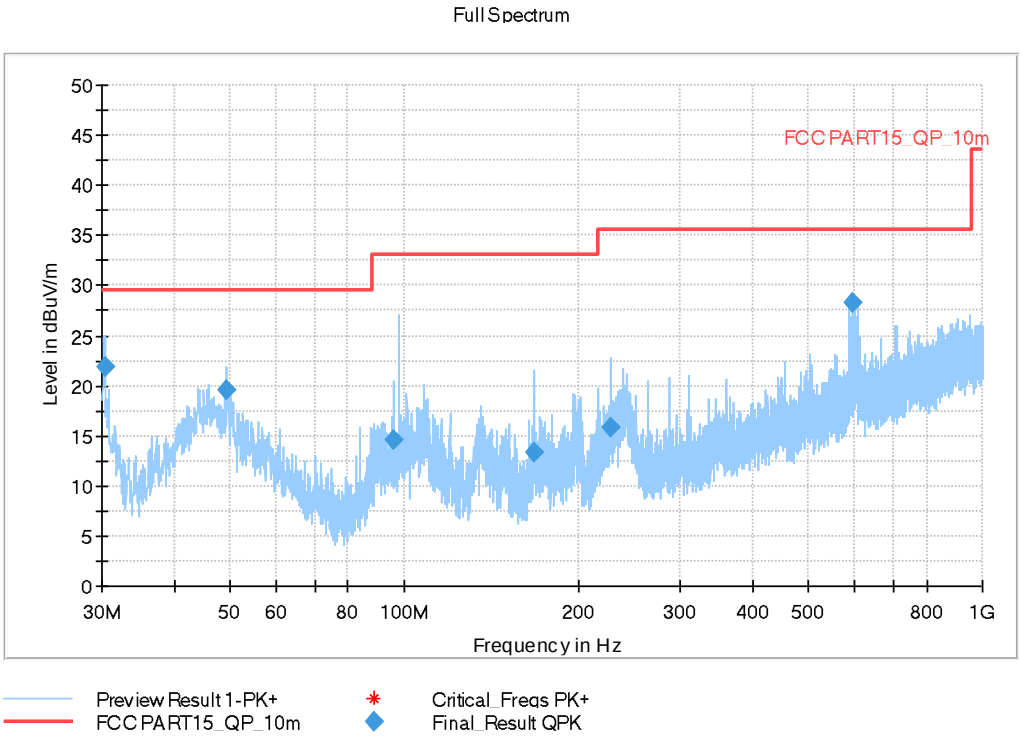

Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.339500	21.87	29.54	7.67	120.000	298.0	V	128.0
49.206000	19.57	29.54	9.97	120.000	120.0	V	8.0
95.960000	14.53	33.06	18.53	120.000	225.0	V	133.0
167.837000	13.37	33.06	19.69	120.000	325.0	H	96.0
227.734500	15.84	35.56	19.72	120.000	319.0	H	-44.0
594.928000	28.38	35.56	7.18	120.000	208.0	V	300.0

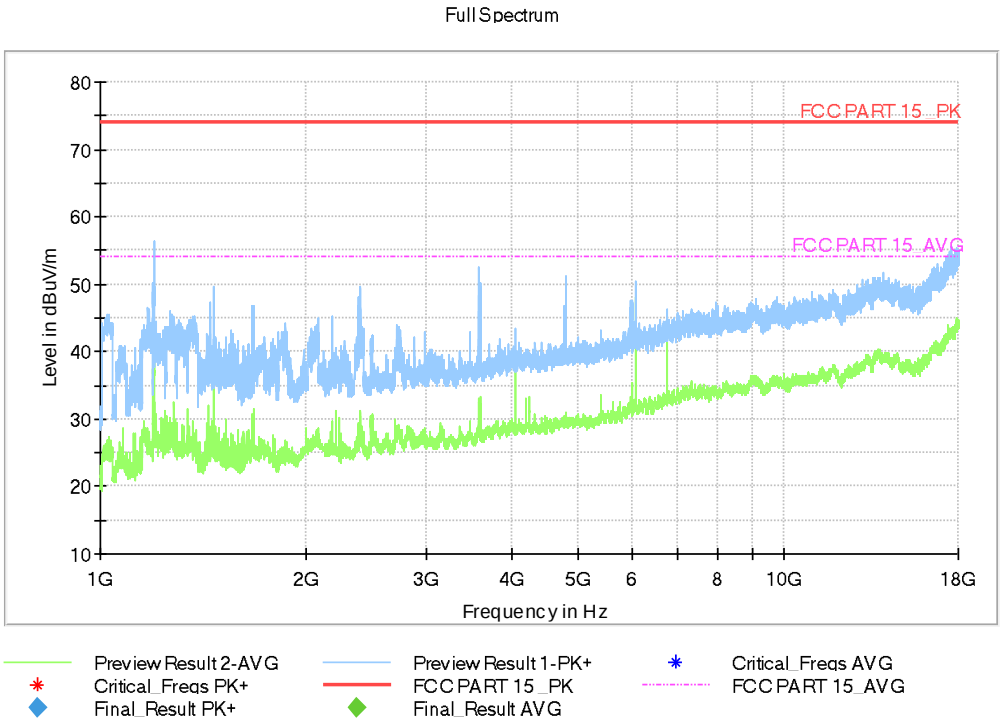

Fig A.6 Radiated Emission from 1GHz to 18GHz

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 (dBμV)	
	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 dB, *k*=2.

Charging Mode, Set.1:

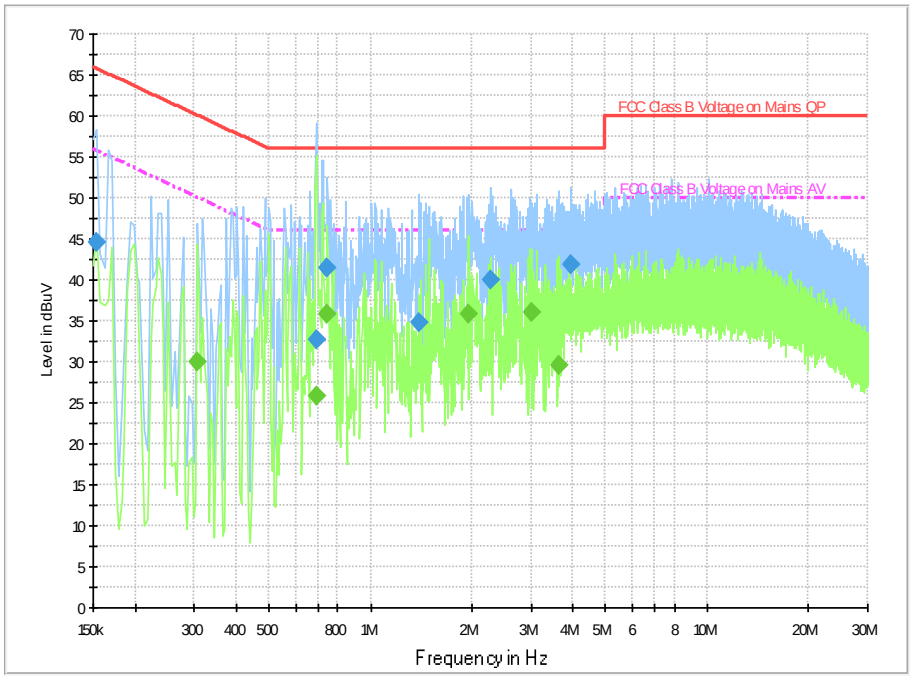

Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154000	44.7	2000.0	9.000	On	N	20.0	21.1	65.8	
0.690000	32.7	2000.0	9.000	On	L1	20.0	23.3	56.0	
0.746000	41.5	2000.0	9.000	On	L1	20.0	14.5	56.0	
1.394000	34.9	2000.0	9.000	On	L1	19.9	21.1	56.0	
2.266000	40.0	2000.0	9.000	On	L1	19.8	16.0	56.0	
3.934000	42.0	2000.0	9.000	On	L1	19.8	14.0	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.306000	30.0	2000.0	9.000	On	L1	19.9	20.1	50.1	
0.690000	25.8	2000.0	9.000	On	L1	20.0	20.2	46.0	
0.746000	35.9	2000.0	9.000	On	L1	20.0	10.1	46.0	
1.954000	35.8	2000.0	9.000	On	L1	19.8	10.2	46.0	
3.006000	36.1	2000.0	9.000	On	L1	19.8	9.9	46.0	
3.642000	29.6	2000.0	9.000	On	L1	19.8	16.4	46.0	

Charging Mode, Set.2:

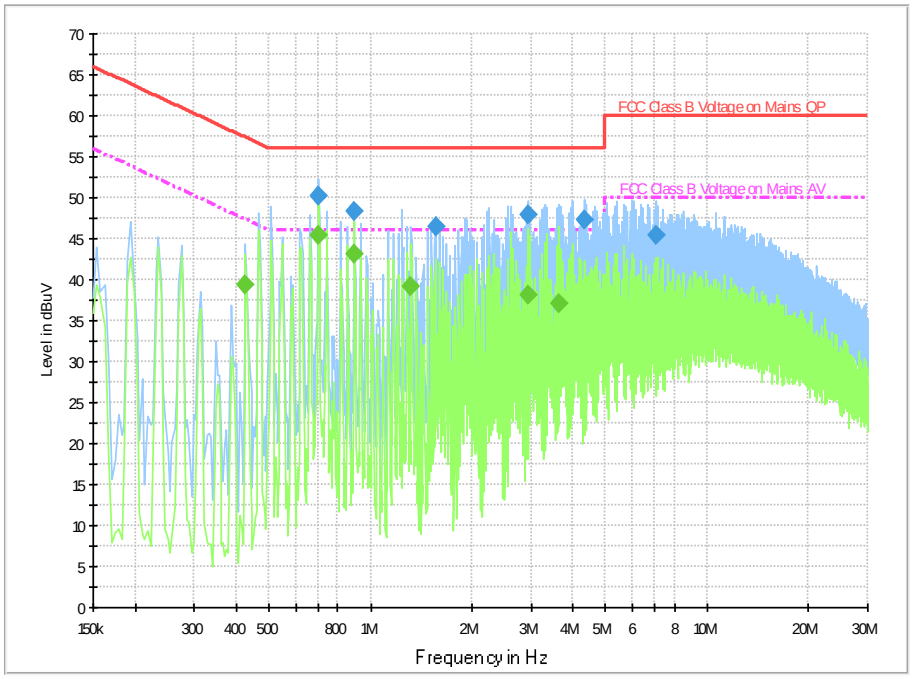

Fig A.8 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.702000	50.1	2000.0	9.000	On	L1	20.0	5.9	56.0	
0.894000	48.3	2000.0	9.000	On	L1	19.9	7.7	56.0	
1.558000	46.4	2000.0	9.000	On	L1	19.8	9.6	56.0	
2.954000	48.0	2000.0	9.000	On	L1	19.8	8.0	56.0	
4.318000	47.4	2000.0	9.000	On	L1	19.8	8.6	56.0	
7.038000	45.3	2000.0	9.000	On	L1	19.9	14.7	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	39.3	2000.0	9.000	On	L1	20.0	8.0	47.3	
0.702000	45.4	2000.0	9.000	On	L1	20.0	0.6	46.0	
0.894000	43.0	2000.0	9.000	On	L1	19.9	3.0	46.0	
1.322000	39.1	2000.0	9.000	On	L1	19.9	6.9	46.0	
2.954000	38.2	2000.0	9.000	On	L1	19.8	7.8	46.0	
3.614000	37.2	2000.0	9.000	On	L1	19.8	8.8	46.0	

USB Mode, Set.3:

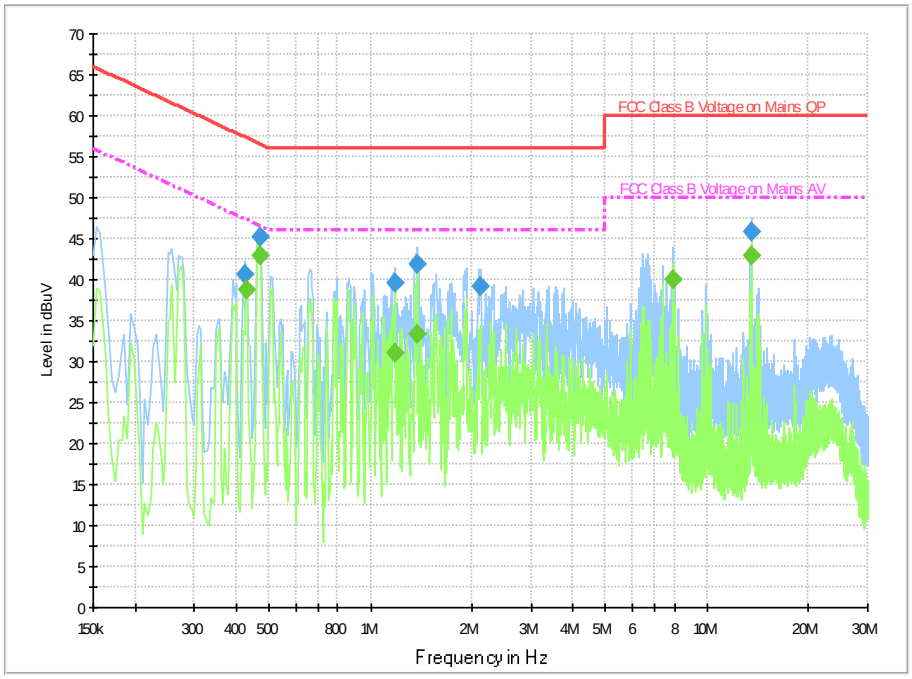

Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	40.6	2000.0	9.000	On	L1	20.0	16.7	57.3	
0.470000	45.3	2000.0	9.000	On	L1	20.0	11.2	56.5	
1.182000	39.6	2000.0	9.000	On	N	19.7	16.4	56.0	
1.378000	41.9	2000.0	9.000	On	L1	19.9	14.1	56.0	
2.130000	39.1	2000.0	9.000	On	L1	19.8	16.9	56.0	
13.562000	45.9	2000.0	9.000	On	L1	20.0	14.1	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	38.7	2000.0	9.000	On	L1	20.0	8.5	47.3	
0.470000	42.9	2000.0	9.000	On	L1	20.0	3.6	46.5	
1.182000	31.0	2000.0	9.000	On	N	19.7	15.0	46.0	
1.378000	33.4	2000.0	9.000	On	L1	19.9	12.6	46.0	
7.922000	40.0	2000.0	9.000	On	N	19.7	10.0	50.0	
13.562000	42.8	2000.0	9.000	On	L1	20.0	7.2	50.0	

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