



# TEST REPORT

## No. I22Z62035-EMC01

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE mobile phone**

**Model Name: T610K**

**FCC ID: 2ACCJB194**

with

**Hardware Version: 05**

**Software Version: 7GS8**

**Issued Date: 2022-12-26**

**Note:**

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z62035-EMC01	Rev.0	1 <sup>st</sup> edition	2022-12-26
I22Z62035-EMC01	Rev.1	2 <sup>nd</sup> edition	2023-01-09

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



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## 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: 2022-12-04

Testing End Date: 2022-12-06

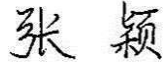
### 1.4. Signature



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Wang Xue

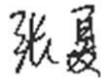
(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
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### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
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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	GSM/UMTS/LTE mobile phone
Model Name	T610K
FCC ID:	2ACCJB194

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
UT21a	354083950001576/	05	7GS8
	354083950001584		

\*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	Battery	TLp049C8	Dongguan Ganfeng Electronics Co., LTD
AE2	Charger1	YJC018R-EU	Dongguan YingJu Power Co., Ltd.
AE3	Charger2	YJC018R-UK	Dongguan YingJu Power Co., Ltd.
AE4	Charger3	QC13EU	PUAN
AE5	Charger4	QC13US	PUAN
AE6	Charger5	QC13UK	PUAN
AE7	Charger6	QC13AU	PUAN
AE8	USB Cable	JWUB1520-M01R	Huizhou Juwei Electronics Co., Ltd.
AE9	Headset	JWEP1247-M01R	Huizhou Juwei Electronics 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	EUT1 + AE1 + AE2 + AE3	Charger1+REAR Camera+GSM 850 idle
Set.2	EUT1 + AE1 + AE4 + AE3	Charger3+MP4+WCDMA 850 idle
Set.3	EUT1 + AE1 + AE8 + AE9	USB+front camera + LTE idle +FM

Note:

Equipment Under Test (EUT) is a model of GSM/UMTS/LTE mobile phone with integrated antenna. It supports

GSM Band	GSM 850/900/1800/1900
UMTS Band	FDD Band I(W2100)/FDD Band II(W1900)/FDD Band V(W850)
LTE Band	FDD 1/2/5/7/8/13/20/28, TDD 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), GNSS

functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850, WCDMA850, LTE Band 5/13. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are reported.

## **4. Reference Documents**

### **4.1. Reference Documents for testing**

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

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2019
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** (10 meters×6.7meters×6.1meters) 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, 3m 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 6000 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



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

## 7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103015	R&S	2023-01-23	1 year
2	Universal Radio Communication Tester	CMW500	163975	R&S	2023-01-10	1 year
3	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
4	EMI Antenna	3115	00146404	ETS-Lindgren	2023-02-23	1 year
5	LISN	ENV216	101200	R&S	2023-06-29	1 year
6	Test Receiver	ESCI 7	100344	R&S	2023-03-21	1 Year
7	Software	EMC32	/	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 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. 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.

#### **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/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

$P_{\text{Mea}}$ : Measurement result on receiver.

Measurement uncertainty (worst case):  $U = 5.54 \text{ dB}$ ,  $k=2$ .

#### Measurement results for Set.1:

##### Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17565.140	42.20	-29.79	45.25	26.75	54.00	11.80	V
17906.840	41.80	-29.33	45.95	25.17	54.00	12.20	V
17546.100	41.80	-29.49	44.35	26.93	54.00	12.20	H
17654.220	41.70	-29.60	45.25	26.05	54.00	12.30	V
17994.220	41.70	-29.06	46.66	24.10	54.00	12.30	H
17960.560	41.60	-29.06	46.66	24.00	54.00	12.40	H

##### Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17545.080	54.20	-29.49	44.35	39.33	74.00	19.80	V
17902.760	52.60	-29.33	45.95	35.97	74.00	21.40	H
17895.620	52.50	-29.53	45.95	36.08	74.00	21.50	V
17991.500	52.40	-29.06	46.66	34.80	74.00	21.60	V
17637.560	52.30	-29.40	45.25	36.45	74.00	21.70	V
17561.400	52.30	-29.79	45.25	36.85	74.00	21.70	V

**Measurement results for Set.2:**
**Charging Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.540	41.90	-29.06	46.66	24.30	54.00	12.10	V
17920.440	41.80	-29.40	46.66	24.54	54.00	12.20	H
17922.480	41.70	-29.40	46.66	24.44	54.00	12.30	H
17992.520	41.70	-29.06	46.66	24.10	54.00	12.30	V
17953.080	41.60	-28.94	46.66	23.88	54.00	12.40	H
17450.560	41.60	-29.87	44.35	27.12	54.00	12.40	H

**Charging Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17992.860	52.50	-29.06	46.66	34.90	74.00	21.50	V
17577.380	52.50	-29.79	45.25	37.05	74.00	21.50	H
17467.220	52.50	-30.06	44.35	38.20	74.00	21.50	V
17905.140	52.40	-29.33	45.95	35.77	74.00	21.60	V
17545.760	52.30	-29.49	44.35	37.43	74.00	21.70	H
17828.640	52.30	-29.68	45.95	36.02	74.00	21.70	H

**Measurement results for Set.3:**
**USB Mode/Average detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17649.460	42.60	-29.60	45.25	26.95	54.00	11.40	H
17991.840	42.50	-29.06	46.66	24.90	54.00	11.50	V
17996.600	42.50	-29.06	46.66	24.90	54.00	11.50	V
17632.800	42.40	-29.40	45.25	26.55	54.00	11.60	V
17983.680	42.30	-29.06	46.66	24.70	54.00	11.70	H
17544.060	42.30	-29.49	44.35	27.43	54.00	11.70	V

**USB Mode/Peak detector**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17478.780	53.70	-30.06	44.35	39.40	74.00	20.30	V
17801.440	53.10	-29.63	45.95	36.78	74.00	20.90	H
17513.460	53.10	-29.26	44.35	38.00	74.00	20.90	H
17969.400	52.90	-29.06	46.66	35.30	74.00	21.10	H
3595.900	52.90	-39.31	31.15	61.06	74.00	21.10	H
17254.380	52.80	-30.02	43.36	39.46	74.00	21.20	V

Measurement results for Set.1 :

Full Spectrum

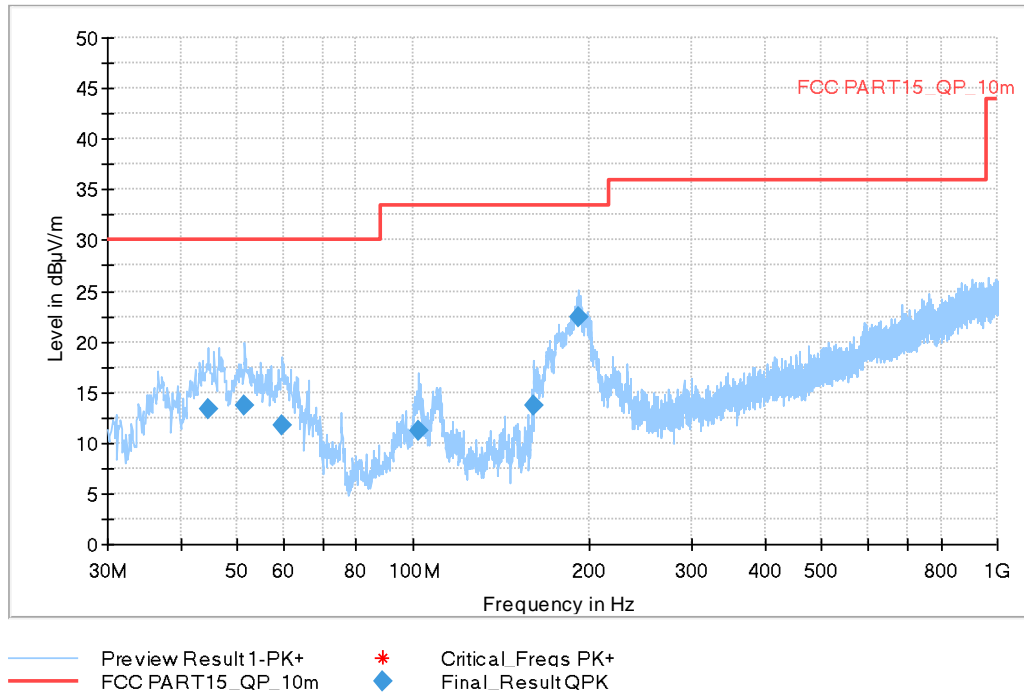
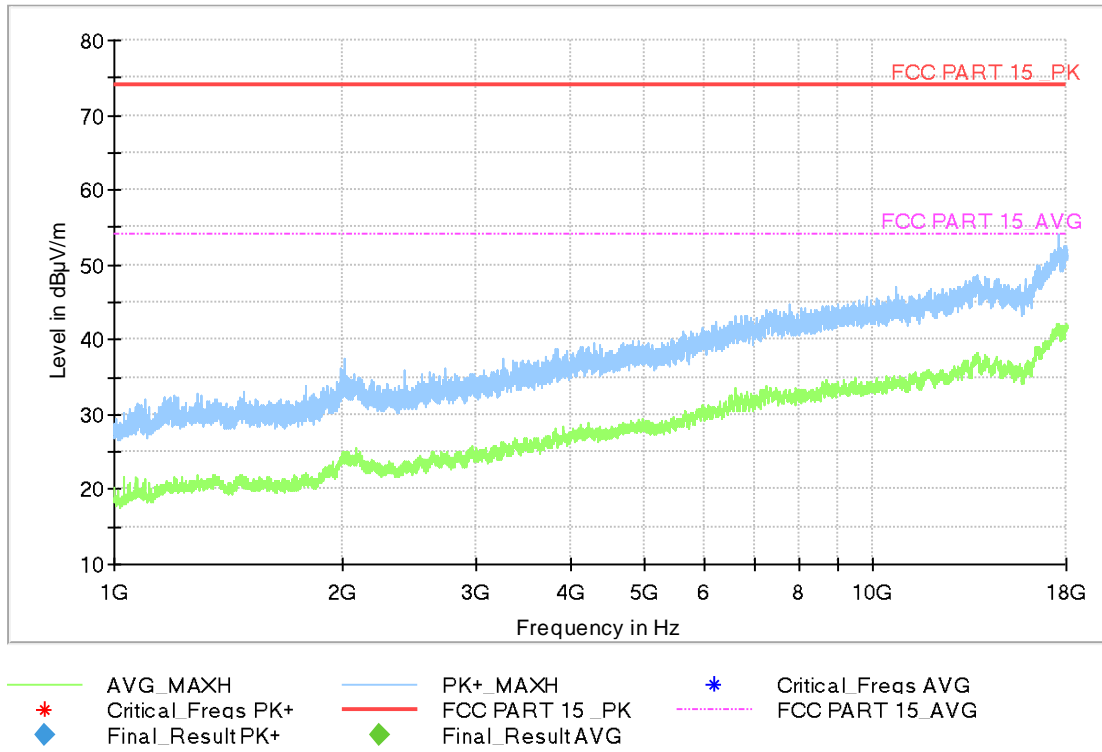


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.647000	13.35	30.00	16.65	120.000	175.0	V	45.0	-11.3
51.534000	13.70	30.00	16.30	120.000	100.0	V	315.0	-10.8
59.779000	11.81	30.00	18.19	120.000	116.0	V	264.0	-11.8
102.265000	11.16	33.52	22.36	120.000	100.0	V	-45.0	-12.3
161.241000	13.72	33.52	19.80	120.000	100.0	V	6.0	-14.9
191.602000	22.42	33.52	11.10	120.000	100.0	V	84.0	-12.4

Full Spectrum



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



Measurement results for Set.2:

Full Spectrum

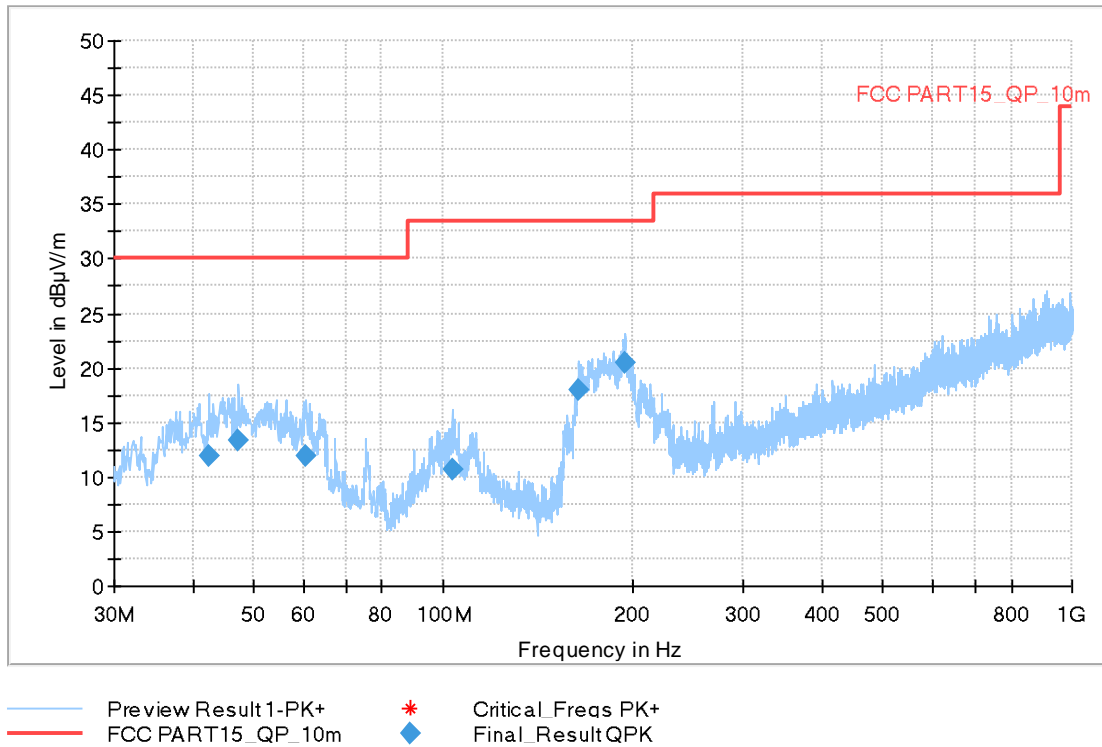
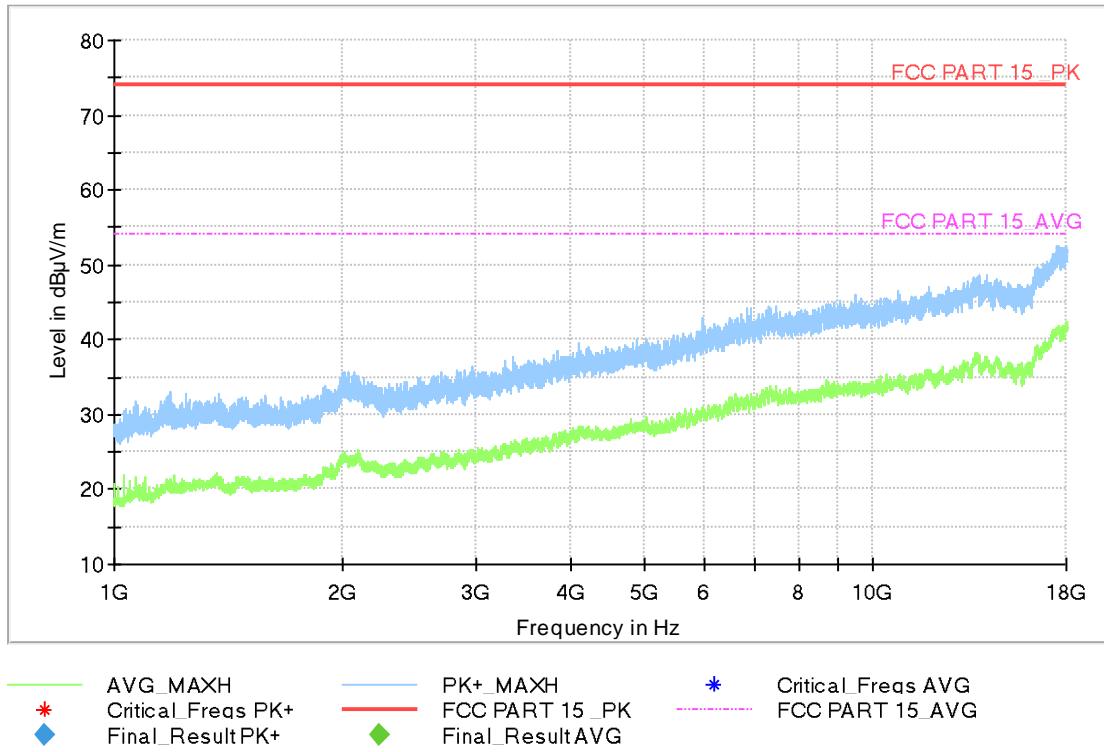


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
42.416000	11.99	30.00	18.01	120.000	325.0	V	45.0	-11.6
47.363000	13.40	30.00	16.60	120.000	125.0	V	70.0	-10.9
60.652000	11.97	30.00	18.03	120.000	125.0	V	279.0	-12.0
103.332000	10.65	33.52	22.87	120.000	302.0	V	-32.0	-12.3
164.345000	17.90	33.52	15.62	120.000	100.0	V	-6.0	-14.8
194.124000	20.51	33.52	13.01	120.000	100.0	V	86.0	-12.0

Full Spectrum



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

Measurement results for Set.3:

Full Spectrum

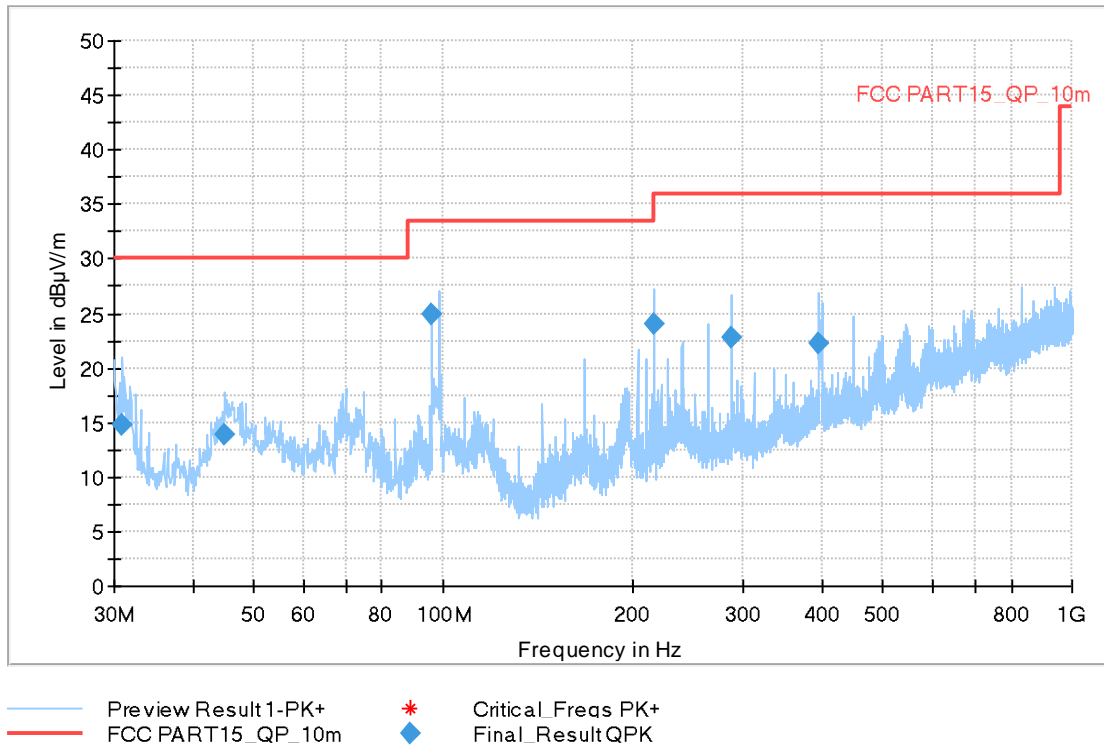
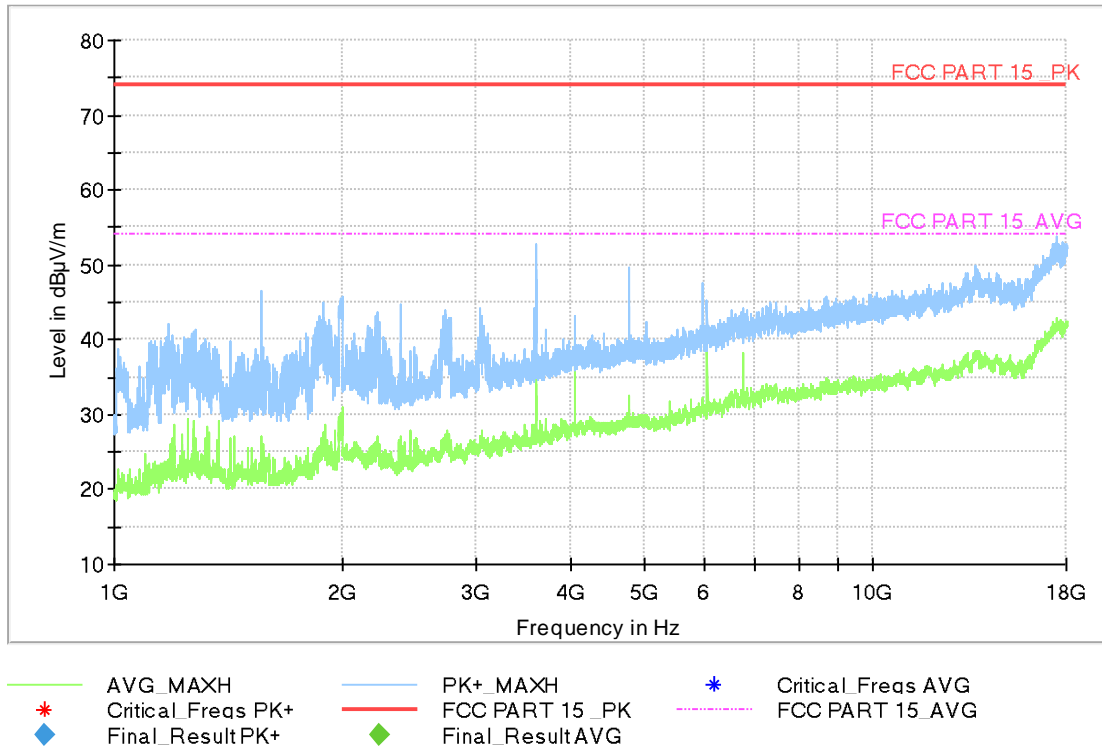


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.970000	14.68	30.00	15.32	120.000	108.0	V	-31.0	-15.3
45.035000	13.90	30.00	16.10	120.000	108.0	V	162.0	-11.1
95.960000	24.98	33.52	8.54	120.000	108.0	V	292.0	-13.1
215.949000	24.04	33.52	9.48	120.000	225.0	H	252.0	-11.9
287.923000	22.69	36.02	13.33	120.000	275.0	H	73.0	-9.2
396.175000	22.30	36.02	13.72	120.000	225.0	H	-45.0	-5.7

Full Spectrum



**Fig A.6 Radiated Emission from 1GHz to 3GHz**

## 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 $\mu$ 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:  $U = 3.08 \text{ dB}$ ,  $k=2$ .

Charging Mode, Set.1 :

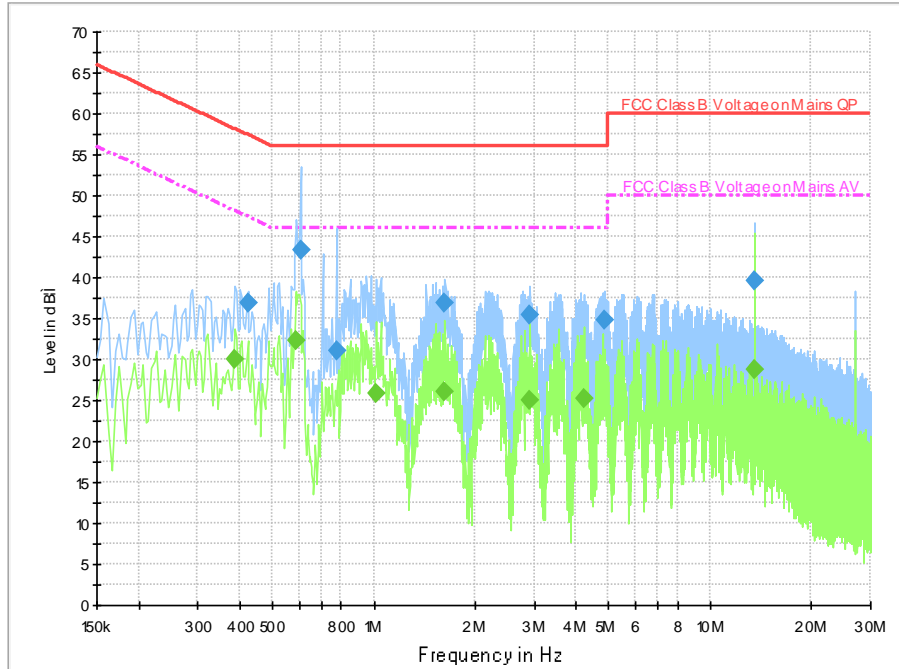


Fig A.7 Conducted Emission from 150kHz to 30MHz

#### Final Result 1

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.422000	36.8	9.000	On	L1	19.7	20.6	57.4
0.606000	43.3	9.000	On	L1	19.7	12.7	56.0
0.774000	31.1	9.000	On	L1	19.7	24.9	56.0
1.630000	36.9	9.000	On	L1	19.6	19.1	56.0
2.922000	35.4	9.000	On	L1	19.6	20.6	56.0
4.870000	34.8	9.000	On	L1	19.6	21.2	56.0

#### Final Result 2

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.386000	30.1	9.000	On	N	19.7	18.1	48.1
0.586000	32.4	9.000	On	L1	19.7	13.6	46.0
1.018000	25.9	9.000	On	L1	19.7	20.1	46.0
1.630000	26.0	9.000	On	L1	19.6	20.0	46.0
2.922000	25.1	9.000	On	L1	19.6	20.9	46.0
4.226000	25.3	9.000	On	L1	19.6	20.7	46.0

Charging Mode, Set.2 :

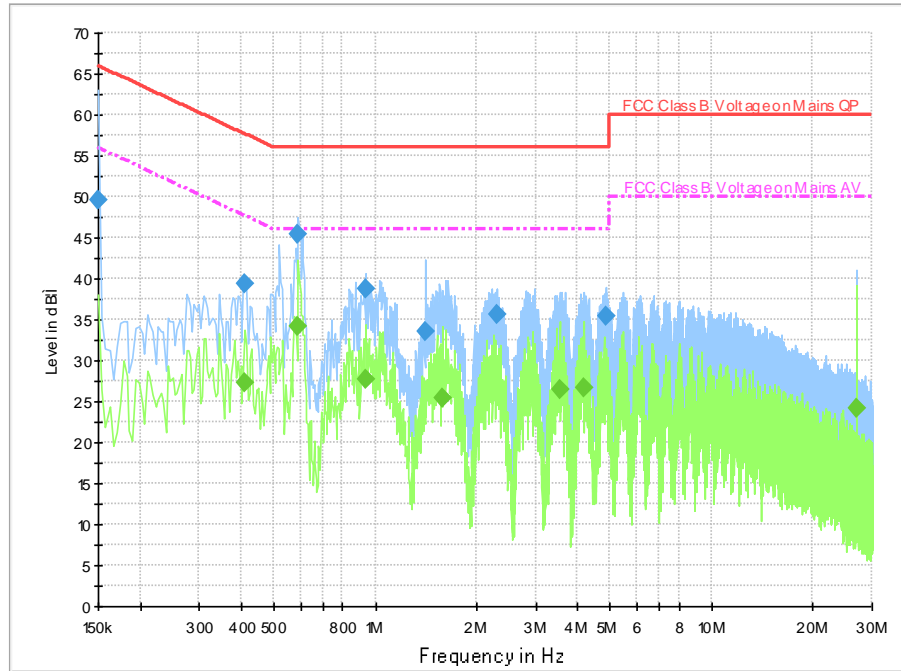


Fig A.8 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	49.7	9.000	On	L1	20.0	16.3	66.0
0.410000	39.4	9.000	On	L1	19.7	18.2	57.6
0.590000	45.4	9.000	On	L1	19.7	10.6	56.0
0.938000	38.7	9.000	On	L1	19.7	17.3	56.0
1.410000	33.5	9.000	On	L1	19.7	22.5	56.0
2.302000	35.6	9.000	On	L1	19.6	20.4	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.410000	27.3	9.000	On	L1	19.7	20.3	47.6
0.590000	34.2	9.000	On	L1	19.7	11.8	46.0
0.938000	27.8	9.000	On	L1	19.7	18.2	46.0
1.586000	25.5	9.000	On	L1	19.6	20.5	46.0
3.526000	26.4	9.000	On	L1	19.6	19.6	46.0
4.190000	26.6	9.000	On	L1	19.6	19.4	46.0

USB Mode, Set.3 :

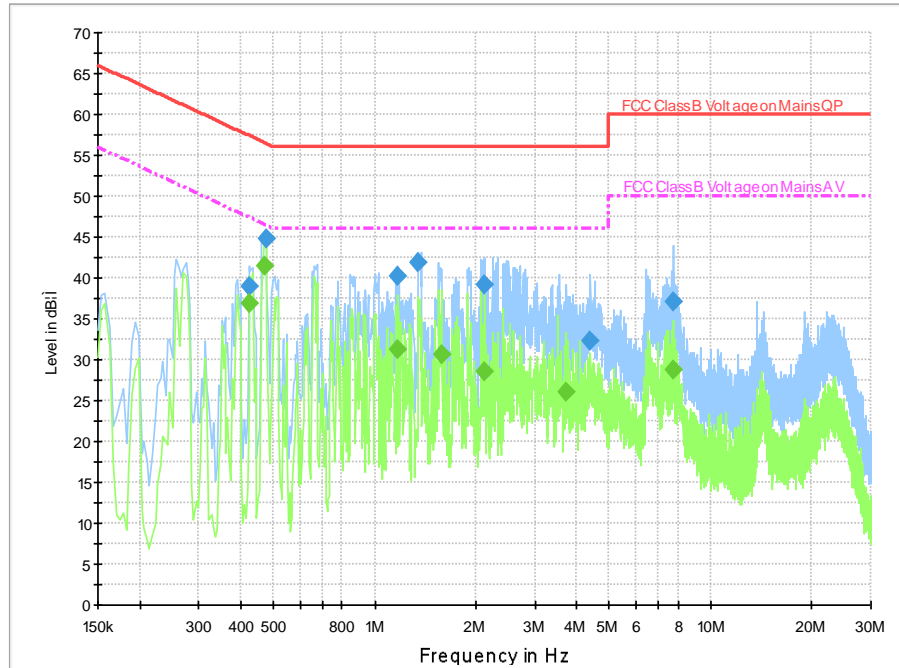


Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.422000	39.0	9.000	On	N	19.7	18.5	57.4
0.474000	44.8	9.000	On	N	19.7	11.7	56.4
1.174000	40.3	9.000	On	L1	19.7	15.7	56.0
1.350000	41.8	9.000	On	L1	19.6	14.2	56.0
2.130000	39.2	9.000	On	L1	19.6	16.8	56.0
4.398000	32.3	9.000	On	N	19.6	23.7	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.426000	36.9	9.000	On	L1	19.7	10.5	47.3
0.470000	41.5	9.000	On	L1	19.7	5.0	46.5
1.174000	31.3	9.000	On	N	19.6	14.7	46.0
1.578000	30.6	9.000	On	L1	19.6	15.4	46.0
2.130000	28.5	9.000	On	L1	19.6	17.5	46.0
3.730000	26.0	9.000	On	N	19.6	20.0	46.0

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