



# FCC PART 15B TEST REPORT

No. I21Z61336-EMC01

for

**TCL Communication Ltd.**

**LTE / UMTS / GSM mobile phone**

**Model Name: 5033F**

**FCC ID: 2ACCJH141**

with

**Hardware Version: PIO**

**Software Version: vRB56**

**Issued Date: 2021-08-10**

**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>
I21Z61336-EMC01	Rev.0	1 <sup>st</sup> edition	2021-08-10

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: 2021-08-02

Testing End Date: 2021-08-09

### 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**

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### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong  
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Contact Email zhizhou.gong@tcl.com  
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Fax: 0086-755-36612000-81722

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

#### **3.1. About EUT**

Description	LTE / UMTS / GSM mobile phone
Model Name	5033F
FCC ID	2ACCJH141

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
EUT1	355741108703273/ 355741108703281	PIO	vRB56

\*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	SN	Remarks
AE1	Battery	/	
AE2	Battery		
AE3	Charger1	/	
AE4	Charger2	/	
AE5	USB Cable	/	
AE6	USB Cable	/	
AE7	Headset	/	
AE8	Headset	/	
AE9	Headset	/	

##### AE1

Model	CAB1930000C7
Manufacturer	Ningbo Veken Battery Co.,LTD
Capacity	2000 mAh
Nominal Voltage	3.85V

##### AE2

Model	CAB1930006C7
Manufacturer	Ningbo Veken Battery Co.,LTD
Capacity	2000 mAh
Nominal Voltage	/

##### AE3

Model	CBA0066AGAC5
Manufacturer	PUAN
Length of cable	

##### AE4

Model	CBA3068AGAC5
Manufacturer	PUAN
Length of cable	

**AE5**

Model CDA3122005C1  
Manufacturer HUIZHOU JUWEI ELECTRONICS CO.,LTD  
Length of cable

**AE6**

Model CDA3122005C2  
Manufacturer ShengHua Industrial Co., Ltd  
Length of cable

**AE7**

Model CCB0049A10C1  
Manufacturer Juwei  
Length of cable

**AE8**

Model CCB0046A10C1  
Manufacturer Juwei  
Length of cable

**AE9**

Model CCB0046A15C4  
Manufacturer Meihao  
Length of cable

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

Note: The USB cables are shielded.

### **3.4. EUT set-ups**

<b>EUT set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.1	EUT1 + AE1+ AE3	Charger1+REAR Camera+GSM 850 idle
Set.2	EUT1 + AE1+ AE4+ AE5/6	Charger2+MP4+WCDMA 850 idle
Set.3	EUT1 + AE1+ AE5/6+AE7+PC	USB+Front Camera + FM

Note:

The device supports GSM/GPRS/EGPRS 850/900/1800/1900, UMTS FDD Band 1/2/5/8; LTE FDD Band 1/3/7/8/20. It has WLAN (802.11b/g/n, 802.11n supports 20MHz and 40MHz bandwidth), Bluetooth (EDR, BLE) and GNSS (GPS&GLONASS&BDS& GALILEO) functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated.

## **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	ESU26	100235	R&S	2022-02-23	1 Year
2	LISN	ENV216	101200	R&S	2022-05-30	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2021-12-07	1 year
4	Test Receiver	ESCI 7	100344	R&S	2022-02-23	1 Year
5	EMI Antenna	VULB 9163	483	Schwarzbeck	2021-08-27	1 year
6	EMI Antenna	3115	6914	ETS-Lindgren	2022-02-03	1 year

## **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/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

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

Measurement uncertainty (worst case):  $U = 4.74 \text{ dB}$ ,  $k=2$ .

#### 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)
17985.267	47.6	-29.1	46.7	30.00	54.00	6.40	V
17984.700	47.2	-29.1	46.7	29.60	54.00	6.80	H
17998.867	47.0	-29.1	46.7	29.40	54.00	7.00	V
17967.700	46.5	-29.1	46.7	28.90	54.00	7.50	V
17994.333	46.5	-29.1	46.7	28.90	54.00	7.50	V
17983.000	46.4	-29.1	46.7	28.80	54.00	7.60	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)
17985.267	55.9	-29.1	46.7	38.30	74.00	18.10	V
17986.967	55.1	-29.1	46.7	37.50	74.00	18.90	V
17939.933	54.9	-29.4	46.7	37.64	74.00	19.10	V
17786.367	54.8	-29.9	46.0	38.73	74.00	19.20	H
17988.100	54.7	-29.1	46.7	37.10	74.00	19.30	H
17949.567	54.6	-28.9	46.7	36.88	74.00	19.40	H

**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)
17969.967	47.1	-29.1	46.7	29.50	54.00	6.90	V
17969.400	46.9	-29.1	46.7	29.30	54.00	7.10	H
17971.667	46.8	-29.1	46.7	29.20	54.00	7.20	V
17968.267	46.5	-29.1	46.7	28.90	54.00	7.50	V
17989.800	46.5	-29.1	46.7	28.90	54.00	7.50	V
17938.233	46.4	-29.4	46.7	29.14	54.00	7.60	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)
17993.767	56.1	-29.1	46.7	38.50	74.00	17.90	V
17917.833	55.6	-29.3	46.7	38.27	74.00	18.40	H
17961.467	55.4	-29.1	46.7	37.80	74.00	18.60	H
17996.600	54.7	-29.1	46.7	37.10	74.00	19.30	V
17940.500	54.7	-28.9	46.7	36.98	74.00	19.30	H
17977.900	54.6	-29.1	46.7	37.00	74.00	19.40	V

**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)
17969.400	46.6	-29.1	46.7	29.00	54.00	7.40	V
17996.600	46.6	-29.1	46.7	29.00	54.00	7.40	H
17971.667	46.3	-29.1	46.7	28.70	54.00	7.70	V
17967.133	46.3	-29.1	46.7	28.70	54.00	7.70	V
17998.867	46.3	-29.1	46.7	28.70	54.00	7.70	H
17958.067	46.2	-28.9	46.7	28.48	54.00	7.80	H

**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)
17979.600	56.3	-29.1	46.7	38.70	74.00	17.70	V
17941.067	56.0	-28.9	46.7	38.28	74.00	18.00	H
17995.467	55.8	-29.1	46.7	38.20	74.00	18.20	H
17927.467	54.7	-29.4	46.7	37.44	74.00	19.30	V
17965.433	54.7	-29.1	46.7	37.10	74.00	19.30	H
17963.167	54.6	-29.1	46.7	37.00	74.00	19.40	V

### Measurement results for Set.1:

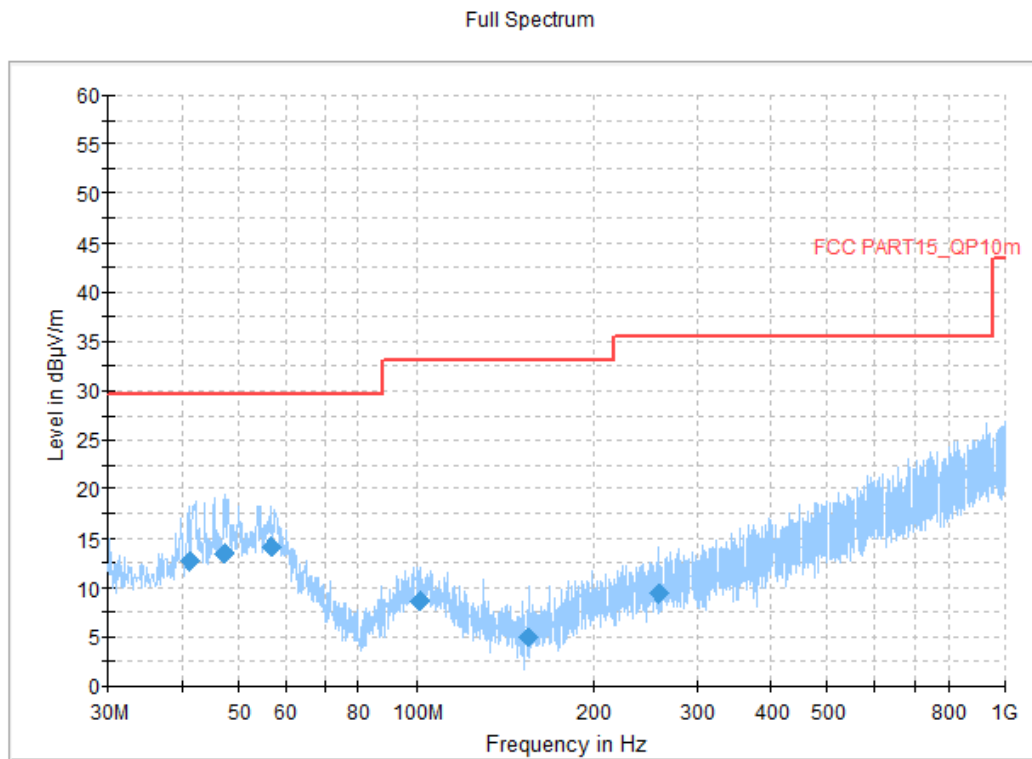


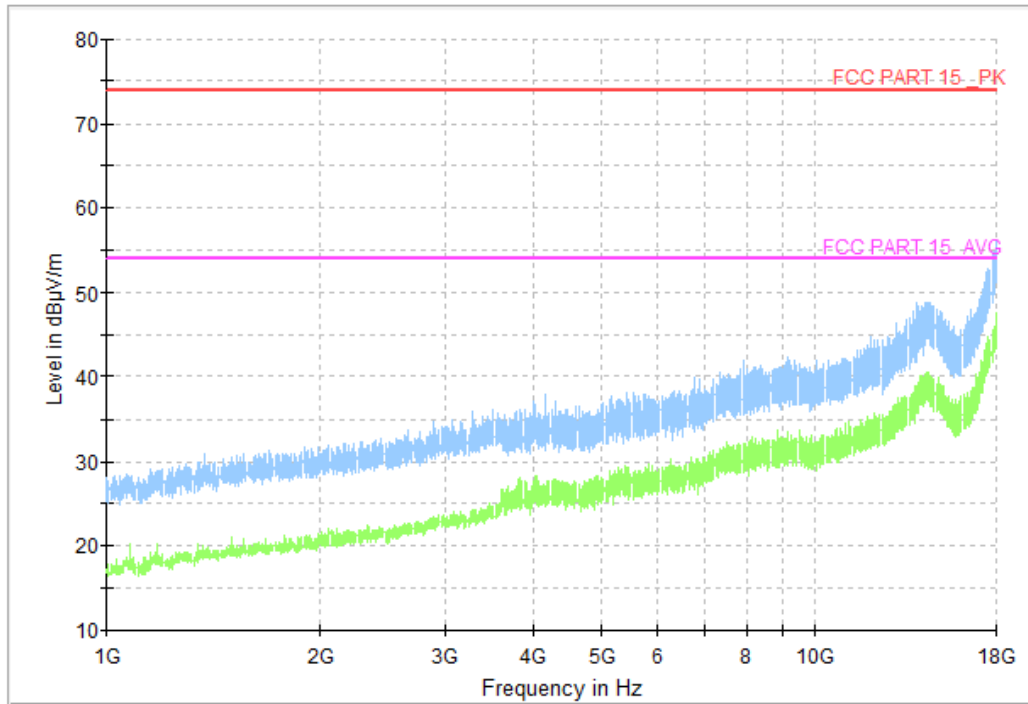
Fig A.1 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.155000	12.62	29.50	16.92	1000.0	120.000	306.0	V	82.0
47.169000	13.41	29.50	16.13	1000.0	120.000	104.0	V	88.0
56.675000	14.08	29.50	15.46	1000.0	120.000	225.0	V	102.0
101.489000	8.66	33.10	24.40	1000.0	120.000	220.0	V	163.0
155.518000	4.96	33.10	28.10	1000.0	120.000	207.0	V	-18.0
258.532000	9.45	35.60	26.11	1000.0	120.000	202.0	V	4.0



Full Spectrum



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

### Measurement results for Set. 2:

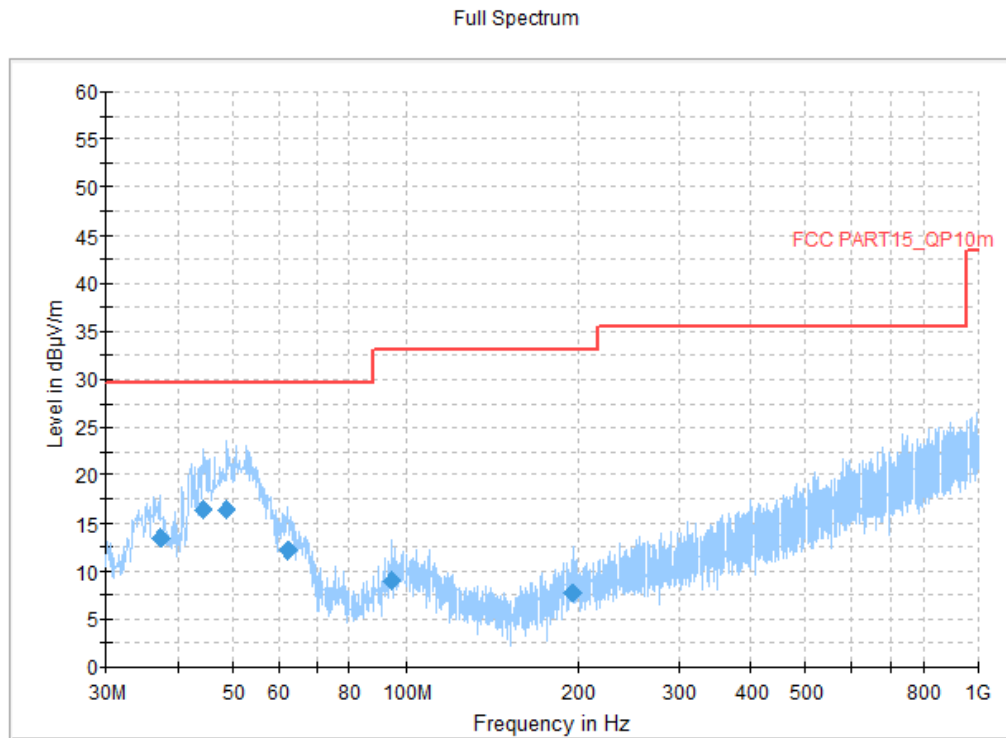
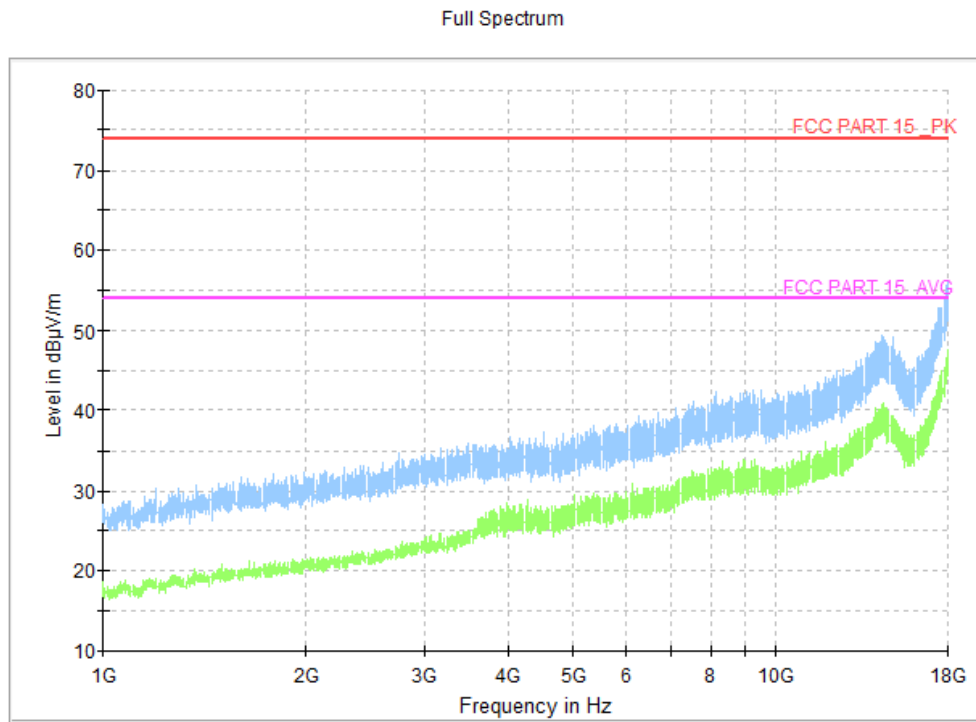


Fig A.3 Radiated Emission from 30MHz to 1GHz

### Final Result 1

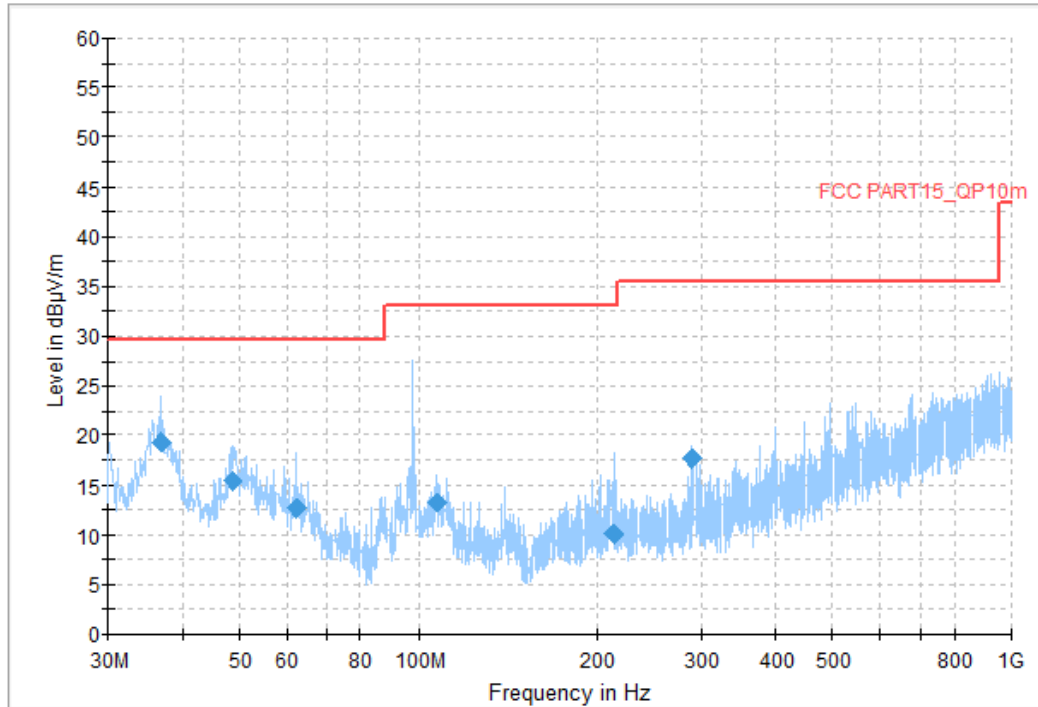
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
37.275000	13.46	29.50	16.08	1000.0	120.000	102.0	V	-18.0
44.162000	16.33	29.50	13.21	1000.0	120.000	235.0	V	120.0
48.721000	16.41	29.50	13.13	1000.0	120.000	194.0	V	152.0
62.204000	12.16	29.50	17.38	1000.0	120.000	100.0	V	-4.0
94.796000	8.97	33.10	24.09	1000.0	120.000	114.0	V	210.0
196.646000	7.77	33.10	25.29	1000.0	120.000	345.0	V	185.0



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

**Measurement results for Set.3:**

Full Spectrum

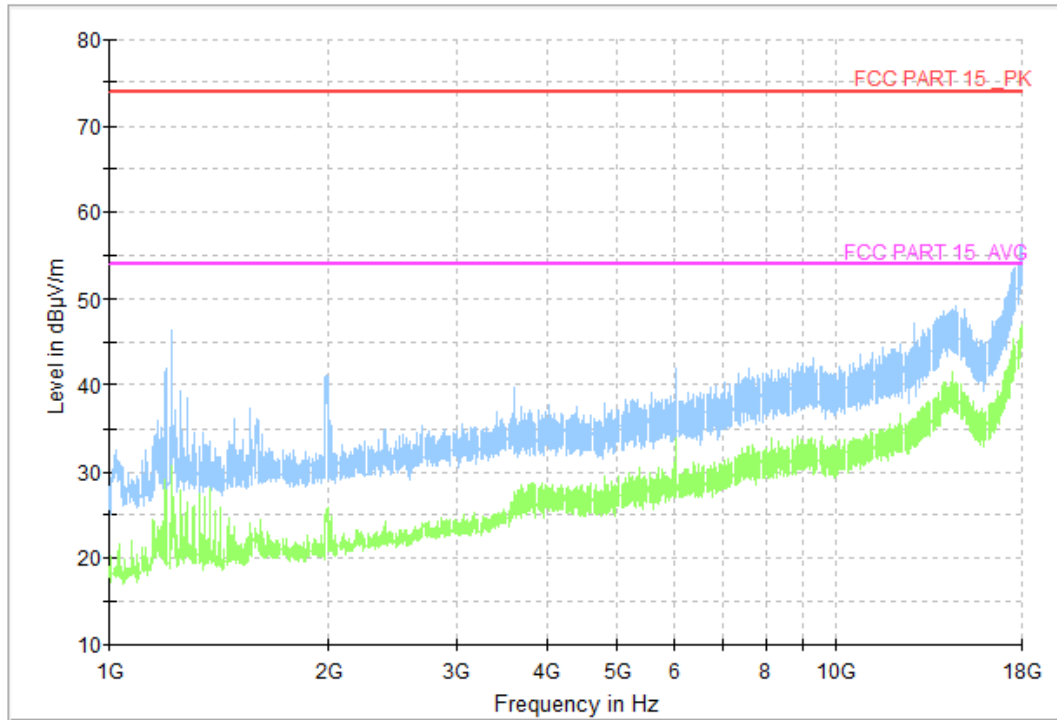


**Fig A.5 Radiated Emission from 30MHz to 1GHz**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.887000	19.40	29.50	10.14	1000.0	120.000	101.0	V	151.0
48.721000	15.50	29.50	14.04	1000.0	120.000	235.0	V	60.0
62.204000	12.62	29.50	16.92	1000.0	120.000	194.0	V	87.0
107.212000	13.29	33.10	19.77	1000.0	120.000	111.0	V	120.0
212.942000	10.05	33.10	23.01	1000.0	120.000	204.0	V	1.0
289.378000	17.71	35.60	17.85	1000.0	120.000	101.0	V	160.0

Full Spectrum



**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 (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:  $U= 3.1$  dB,  $k=2$ .

Charging Mode, Set.1:

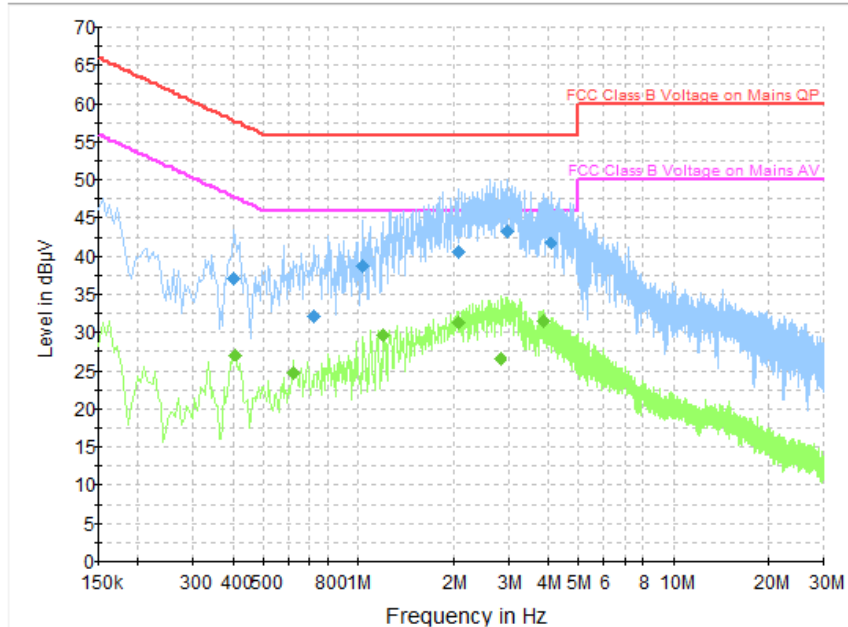


Fig A.7 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.402000	37.1	1000.0	9.000	On	N	19.9	20.7	57.8	
0.726000	32.2	1000.0	9.000	On	N	19.8	23.8	56.0	
1.032000	38.8	1000.0	9.000	On	L1	19.6	17.2	56.0	
2.080500	40.7	1000.0	9.000	On	L1	19.5	15.3	56.0	
2.985000	43.2	1000.0	9.000	On	L1	19.5	12.8	56.0	
4.078500	41.8	1000.0	9.000	On	L1	19.6	14.2	56.0	

### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.406500	27.0	1000.0	9.000	On	N	19.9	20.7	47.7	
0.627000	24.8	1000.0	9.000	On	L1	19.7	21.2	46.0	
1.203000	29.7	1000.0	9.000	On	L1	19.5	16.3	46.0	
2.085000	31.4	1000.0	9.000	On	L1	19.5	14.6	46.0	
2.832000	26.6	1000.0	9.000	On	L1	19.5	19.4	46.0	
3.871500	31.5	1000.0	9.000	On	L1	19.5	14.5	46.0	

### Charging Mode, Set.2:

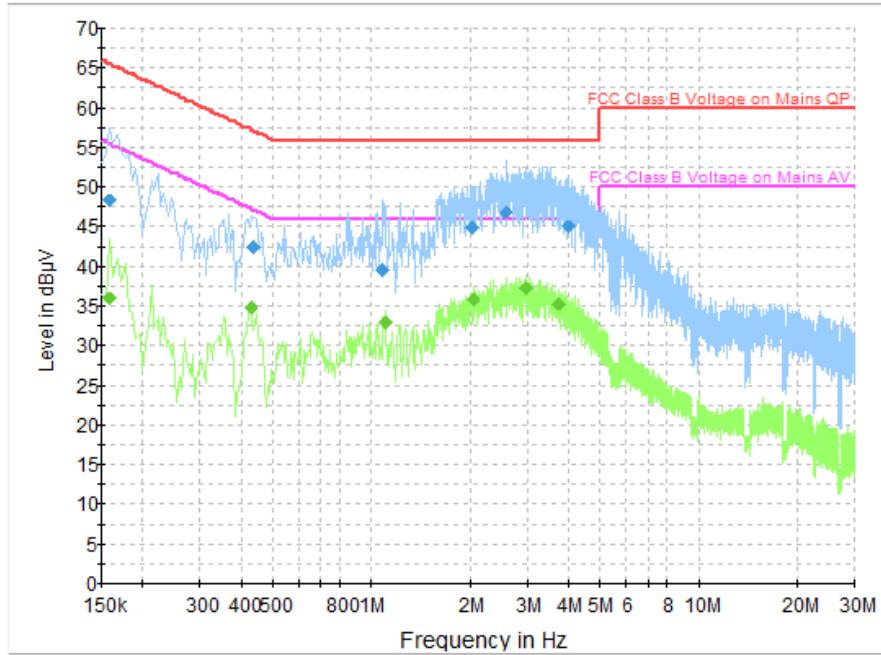


Fig A.8 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.159000	48.4	1000.0	9.000	On	L1	20.0	17.1	65.5	
0.438000	42.4	1000.0	9.000	On	L1	19.9	14.7	57.1	
1.086000	39.6	1000.0	9.000	On	L1	19.5	16.4	56.0	
2.026500	44.8	1000.0	9.000	On	L1	19.4	11.2	56.0	
2.584500	47.0	1000.0	9.000	On	L1	19.5	9.0	56.0	
4.020000	45.1	1000.0	9.000	On	L1	19.6	10.9	56.0	

### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.159000	36.0	1000.0	9.000	On	L1	20.0	19.5	55.5	
0.429000	34.8	1000.0	9.000	On	L1	19.9	12.4	47.3	
1.099500	33.1	1000.0	9.000	On	L1	19.5	12.9	46.0	
2.049000	35.8	1000.0	9.000	On	L1	19.5	10.2	46.0	
2.980500	37.3	1000.0	9.000	On	L1	19.5	8.7	46.0	
3.763500	35.3	1000.0	9.000	On	L1	19.5	10.7	46.0	



USB Mode, Set.3:

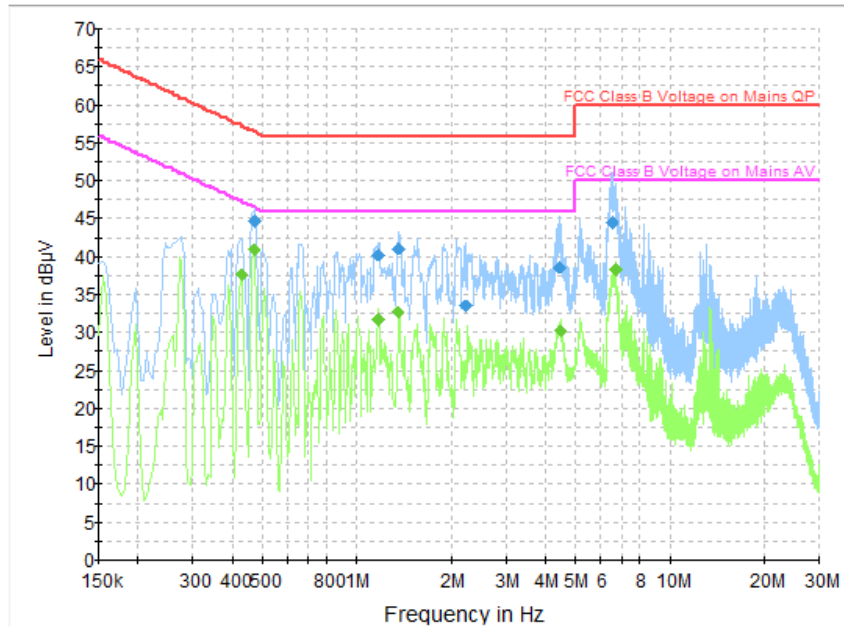


Fig A.9 Radiated Emission from 30MHz to 1GHz

### Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.474000	44.8	1000.0	9.000	On	L1	19.9	11.7	56.4	
1.171500	40.3	1000.0	9.000	On	N	19.8	15.7	56.0	
1.360500	41.2	1000.0	9.000	On	N	19.8	14.8	56.0	
2.211000	33.5	1000.0	9.000	On	N	19.7	22.5	56.0	
4.443000	38.6	1000.0	9.000	On	L1	19.6	17.4	56.0	
6.544500	44.5	1000.0	9.000	On	L1	19.5	15.5	60.0	

### Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.429000	37.6	1000.0	9.000	On	L1	19.9	9.7	47.3	
0.469500	41.0	1000.0	9.000	On	L1	19.9	5.6	46.5	
1.171500	31.7	1000.0	9.000	On	N	19.8	14.3	46.0	
1.351500	32.7	1000.0	9.000	On	N	19.8	13.3	46.0	
4.488000	30.3	1000.0	9.000	On	N	19.7	15.7	46.0	
6.702000	38.4	1000.0	9.000	On	L1	19.5	11.6	50.0	

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