



FCC PART 15B TEST REPORT

No. I22Z60846-EMC05

for

HMD Global Oy

smart phone

Model name: TA-1479

FCC ID: 2AJOTTA-1479

with

Hardware Version: V1.0

Software Version: 00WW_0_043

Issued Date: 2022-08-11

Note:

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Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60846-EMC05	Rev.0	1 st edition	2022-08-03
I22Z60846-EMC05	Rev.1	2 nd edition	2022-08-11

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: 2022-07-24

Testing End Date: 2022-08-02

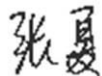
1.4. Signature



Wang Xue
(Prepared this test report)



Zhang Ying
(Reviewed this test report)



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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name	HMD Global Oy
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model Name	TA-1479
FCC ID:	2AJOTTA-1479

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	350967170009910/ 350967170034918	V1.0	00WW_0_043

*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	Charger1	AD-020E	/
AE3	Charger2	AD-020X	/
AE4	Charger3	AD-020U	/
AE5	Charger4	AD-020A	/
AE6	Charger5	AD-020B	/
AE7	Charger6	AD-020C	/
AE8	Charger7	AD-020R	/
AE9	USB Cable	/	/
AE10	Headset	/	/

AE1

Model	CN450
Manufacturer	Gaoyuan
Capacity	4800mAh
Nominal Voltage	3.87V

AE2

Model	AD-020E
Manufacturer	Aohai
Length of cable	/

AE3

Model	AD-020X
Manufacturer	Aohai
Length of cable	/

AE4

Model	AD-020U	/
Manufacturer	Aohai	/
Length of cable	/	/

AE5

Model AD-020A
 Manufacturer Aohai
 Length of cable /

AE6

Model AD-020B
 Manufacturer Aohai
 Length of cable /

AE7

Model AD-020C
 Manufacturer Aohai
 Length of cable /

AE8

Model AD-020R
 Manufacturer Aohai
 Length of cable /

AE9

Model CC-3A
 Manufacturer Saibao
 Length of cable /

AE10

Model JWEP1241-ZN01H
 Manufacturer JUWEI
 Length of cable /

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+ AE1+ AE4+AE9	Charger1 +REAR Camera+GSM 850 idle
Set.2	EUT1+ AE1+ AE4+AE9	Charger1+MP4+WCDMA 850 idle
Set.3	EUT1+ AE1+ AE4+AE9+AE10	USB+ front camera+LTE B5 idle+FM

Note:

Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna.

It supports

GSM Band GSM850/GSM900/DCS1800/PCS1900

UMTS Band FDD Band I(W2100)/FDD Band II(W1900)/FDD Band V(W850)/ FDD Band VIII(W900)

LTE Band FDD1/3/5/7/8/20/28, TDD38/39/40/41

NR Band n1/3/5/7/8/28/38/40/41/77/78

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: GSM850, WCDMA850, LTE Band 5/8/20/28, NR n5/8/28. 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.

Reference	Title	Version
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	103023	R&S	2022-10-28	1 Year
2	LISN	ENV216	101200	R&S	2023-06-29	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 year
4	Test Receiver	ESCI 7	100344	R&S	2023-03-21	1 Year
5	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
6	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
7	Signal Generator	SMB100A	102063	R&S	2022-12-30	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 ($\mu\text{V/m}$)		
	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 (worst case): $U = 4.74 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charing 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)
17995.240	43.00	-29.06	46.66	25.40	54.00	11.00	V
17901.400	42.80	-29.33	45.95	26.17	54.00	11.20	H
18000.000	42.70	-29.24	47.00	24.94	54.00	11.30	H
17978.240	42.60	-29.06	46.66	25.00	54.00	11.40	H
17989.800	42.50	-29.06	46.66	24.90	54.00	11.50	H
17999.320	42.50	-29.06	46.66	24.90	54.00	11.50	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)
17976.200	53.80	-29.06	46.66	36.20	74.00	20.20	V
17994.220	53.60	-29.06	46.66	36.00	74.00	20.40	V
17357.740	53.30	-29.97	43.36	39.91	74.00	20.70	H
17903.100	53.20	-29.33	45.95	36.57	74.00	20.80	V
17989.800	53.10	-29.06	46.66	35.50	74.00	20.90	V
17438.320	53.00	-29.71	44.35	38.36	74.00	21.00	V

Measurement results for Set.2:
Charing 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)
17994.220	43.40	-29.06	46.66	25.80	54.00	10.60	H
17998.300	43.00	-29.06	46.66	25.40	54.00	11.00	V
17992.860	42.60	-29.06	46.66	25.00	54.00	11.40	V
17549.160	42.60	-29.49	44.35	27.73	54.00	11.40	V
17983.680	42.50	-29.06	46.66	24.90	54.00	11.50	H
17982.660	42.50	-29.06	46.66	24.90	54.00	11.50	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)
17997.3	54.60	-29.06	46.66	37.00	74.00	19.40	H
17955.8	53.80	-28.94	46.66	36.08	74.00	20.20	H
17991.8	53.80	-29.06	46.66	36.20	74.00	20.20	V
17613.4	53.40	-29.52	45.25	37.67	74.00	20.60	V
17540.3	53.00	-29.49	44.35	38.13	74.00	21.00	V
17551.5	53.00	-29.49	44.35	38.13	74.00	21.00	V

Measurement results for Set.3:
USB 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)
17996.600	42.60	-29.06	46.66	25.00	54.00	11.40	H
17984.020	42.60	-29.06	46.66	25.00	54.00	11.40	H
17563.440	42.50	-29.79	45.25	27.05	54.00	11.50	V
17997.960	42.40	-29.06	46.66	24.80	54.00	11.60	H
17998.300	42.40	-29.06	46.66	24.80	54.00	11.60	V
17990.820	42.40	-29.06	46.66	24.80	54.00	11.60	V

USB 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)
17990.820	53.50	-29.06	46.66	35.90	74.00	20.50	H
17792.940	53.50	-29.89	45.95	37.43	74.00	20.50	H
17373.720	53.20	-29.97	43.36	39.81	74.00	20.80	H
17963.620	53.10	-29.06	46.66	35.50	74.00	20.90	H
17438.660	53.00	-29.71	44.35	38.36	74.00	21.00	V
17981.980	52.90	-29.06	46.66	35.30	74.00	21.10	V

Measurement results for Set.1:

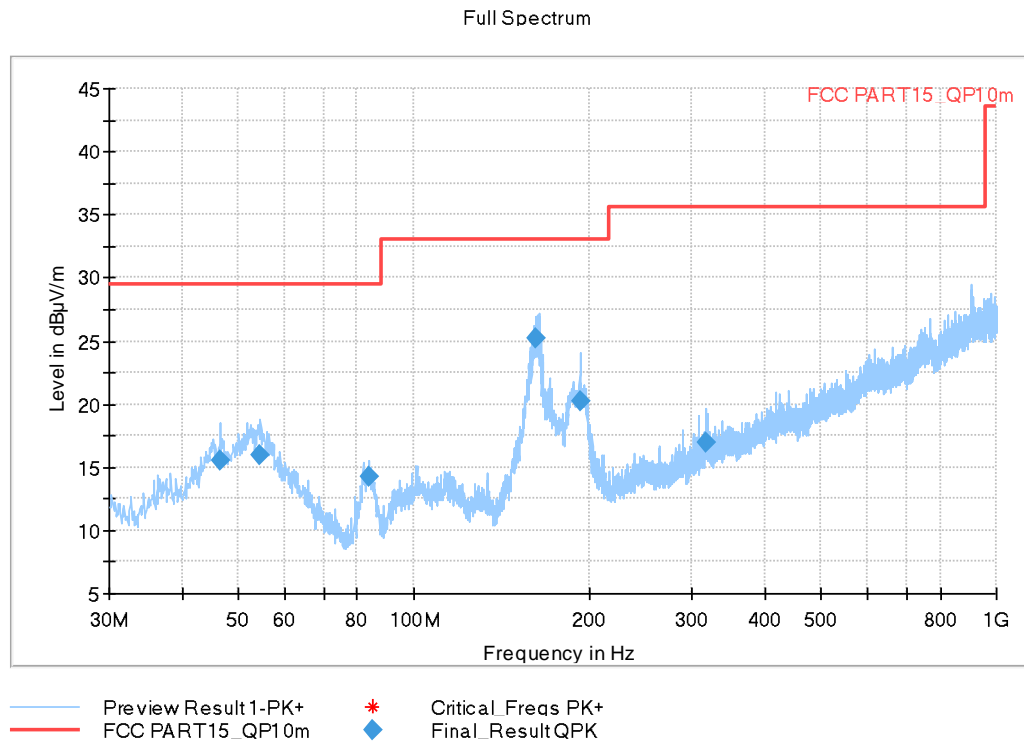


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.587000	15.60	29.54	13.94	2000.0	120.000	325.0	V	64.0
54.541000	15.92	29.54	13.62	2000.0	120.000	125.0	V	354.0
83.738000	14.29	29.54	15.25	2000.0	120.000	125.0	V	-1.0
162.017000	25.25	33.06	23.81	2000.0	120.000	100.0	V	11.0
192.863000	20.26	33.06	12.80	2000.0	120.000	107.0	V	70.0
318.090000	17.00	35.56	18.56	2000.0	120.000	108.0	V	156.0

Full Spectrum

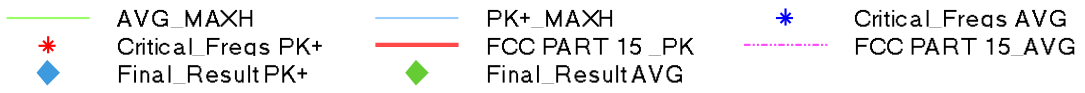
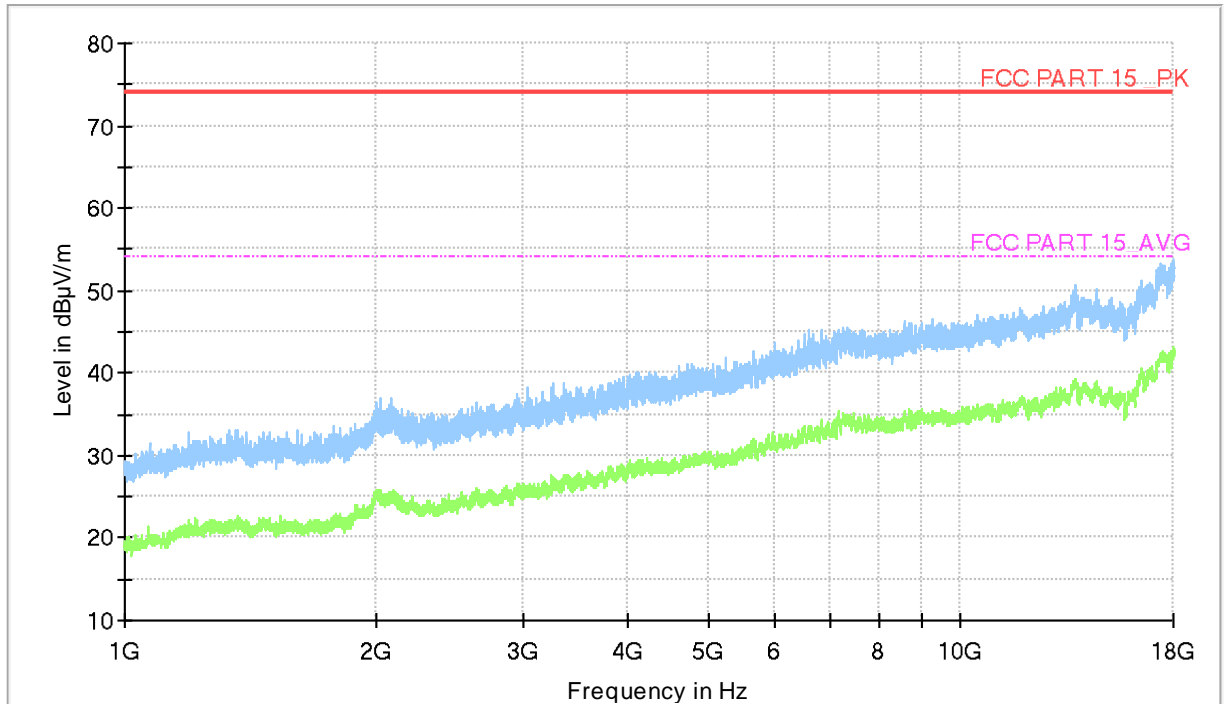


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

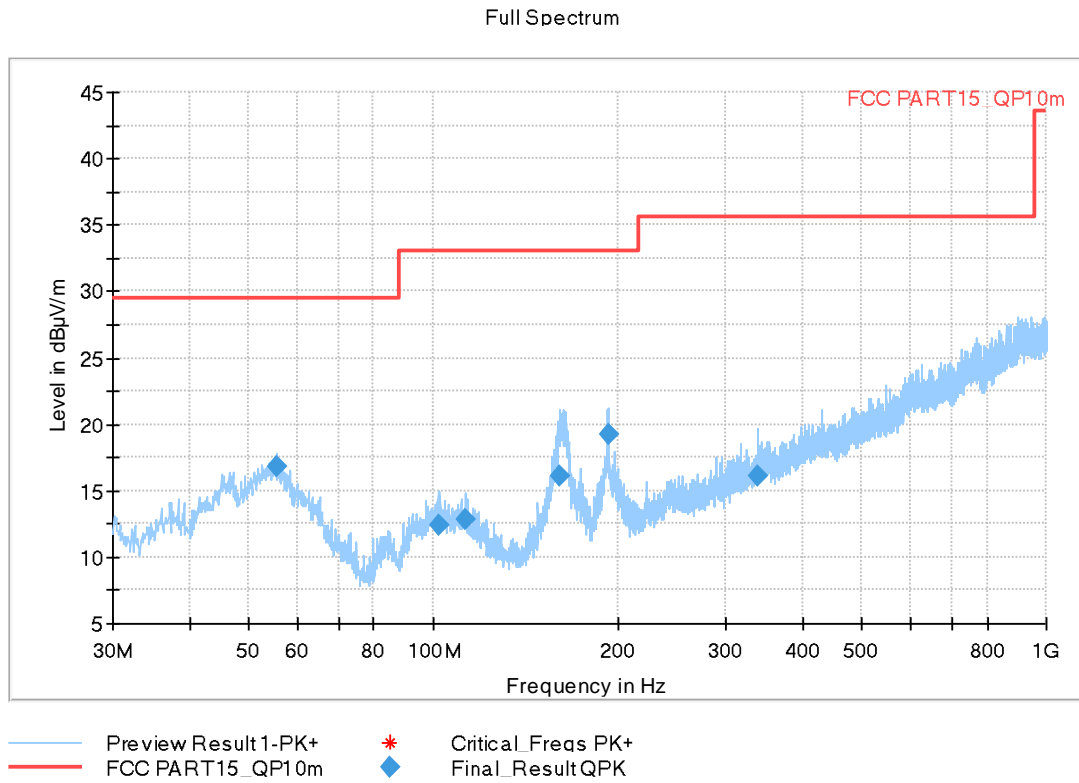


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
55.608000	16.88	29.54	12.66	2000.0	120.000	108.0	V	35.0
101.877000	12.44	33.06	20.62	2000.0	120.000	174.0	H	107.0
113.129000	12.78	33.06	20.28	2000.0	120.000	283.0	V	114.0
160.659000	16.16	33.06	16.90	2000.0	120.000	225.0	V	9.0
192.669000	19.17	33.06	13.89	2000.0	120.000	108.0	V	43.0
339.139000	16.15	35.56	19.41	2000.0	120.000	182.0	H	210.0

Full Spectrum

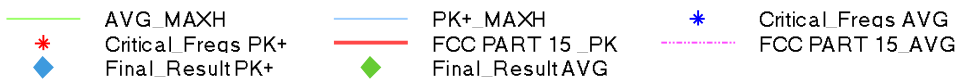
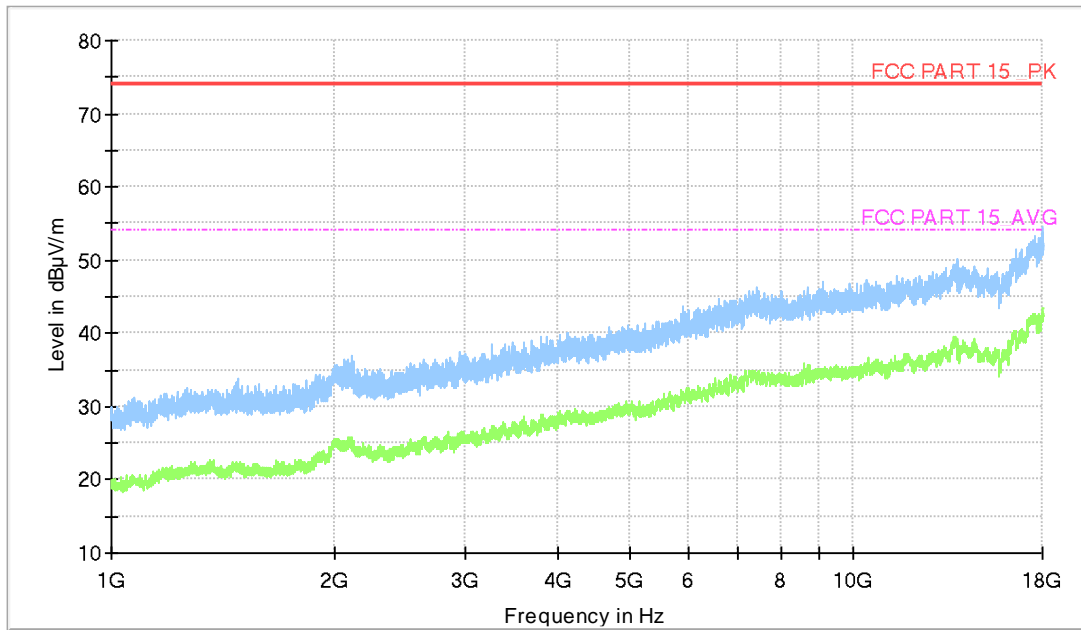


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

Full Spectrum

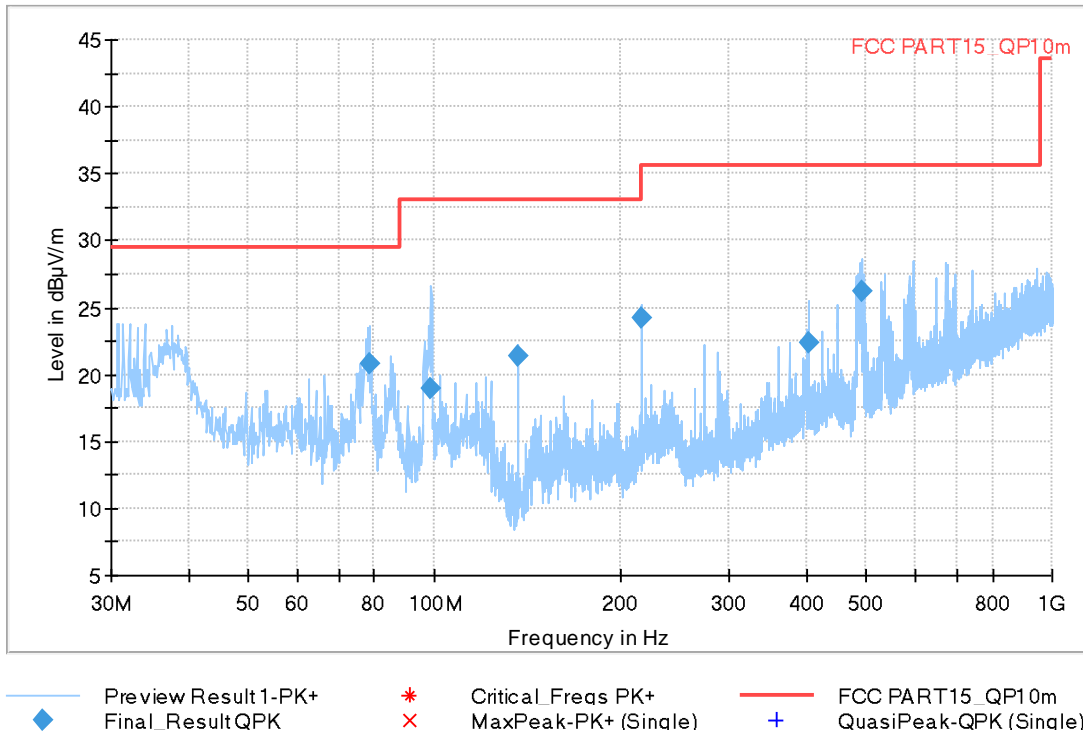


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
78.403000	20.85	29.54	8.69	2000.0	120.000	201.0	V	279.0
98.967000	19.02	33.06	14.04	2000.0	120.000	100.0	V	9.0
136.797000	21.33	33.06	11.73	2000.0	120.000	325.0	H	45.0
215.949000	24.17	33.06	8.89	2000.0	120.000	100.0	V	175.0
404.032000	22.38	35.56	13.18	2000.0	120.000	100.0	V	125.0
493.563000	26.21	35.56	9.35	2000.0	120.000	275.0	V	-5.0

Full Spectrum

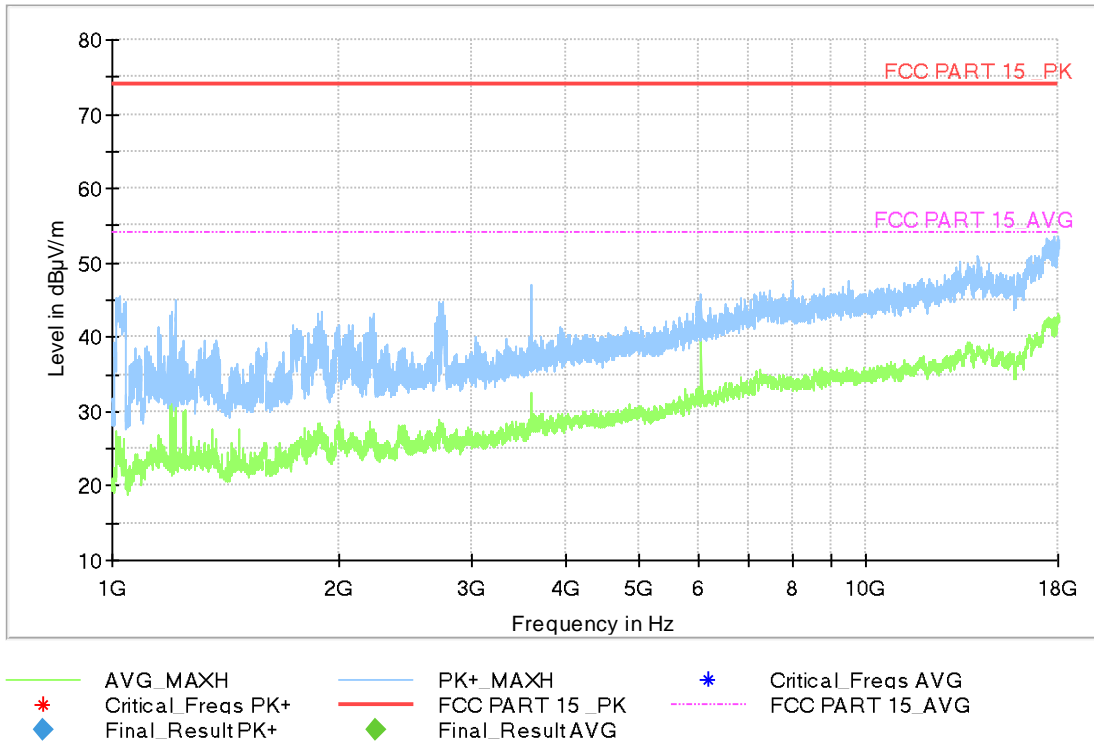


Fig A.6 Radiated Emission from 1GHz to 18GHz

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 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: $U= 3.1 \text{ dB}$, $k=2$.

Charging Mode, Set.1:

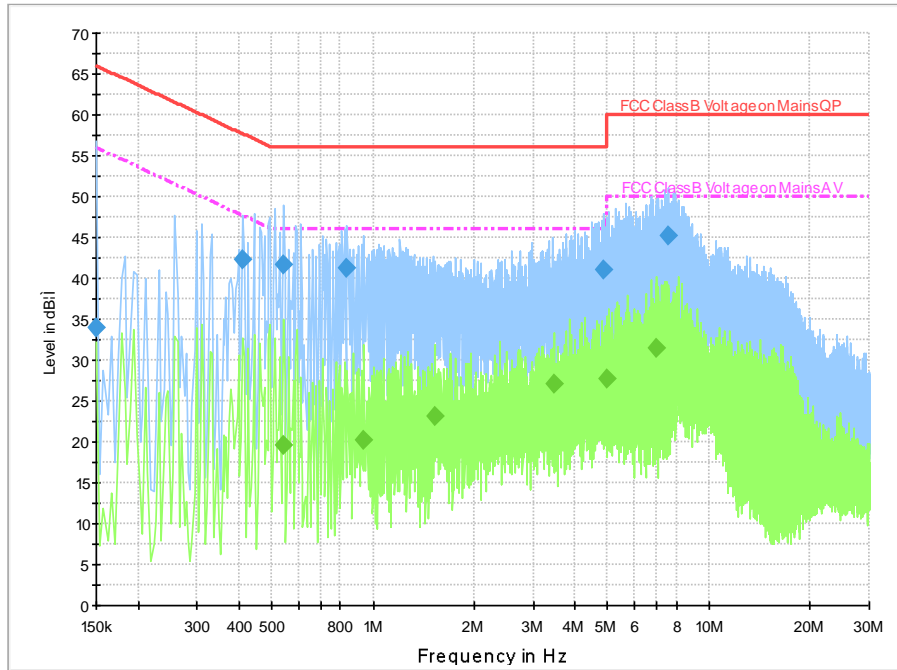


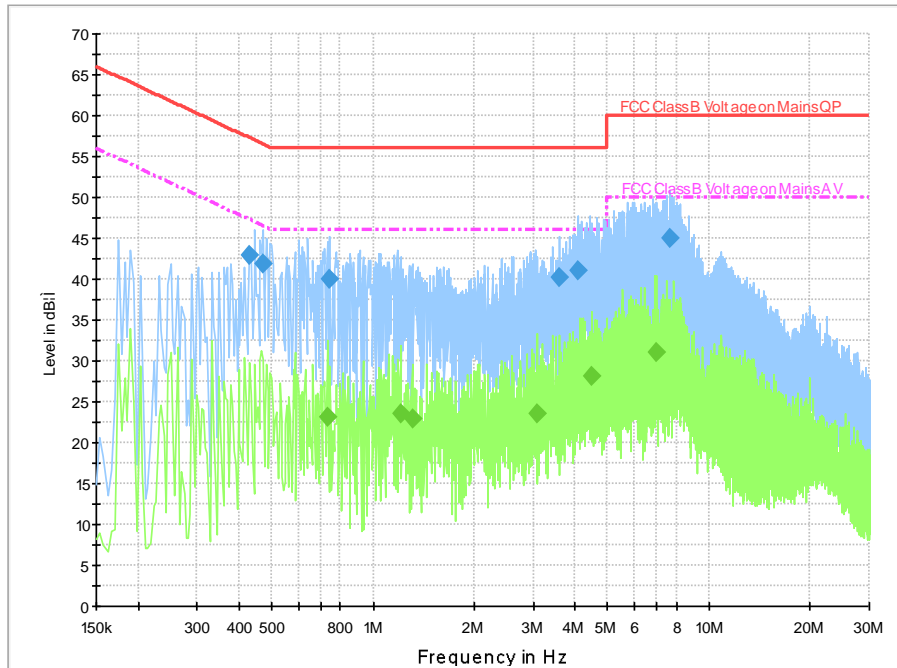
Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.150000	34.0	5000.0	9.000	On	L1	20.0	32.0	66.0	
0.410000	42.2	5000.0	9.000	On	N	19.8	15.4	57.6	
0.542000	41.7	5000.0	9.000	On	N	19.8	14.3	56.0	
0.838000	41.2	5000.0	9.000	On	N	19.6	14.8	56.0	
4.834000	41.0	5000.0	9.000	On	L1	19.6	15.0	56.0	
7.534000	45.1	5000.0	9.000	On	L1	19.7	14.9	60.0	

Final Result 2

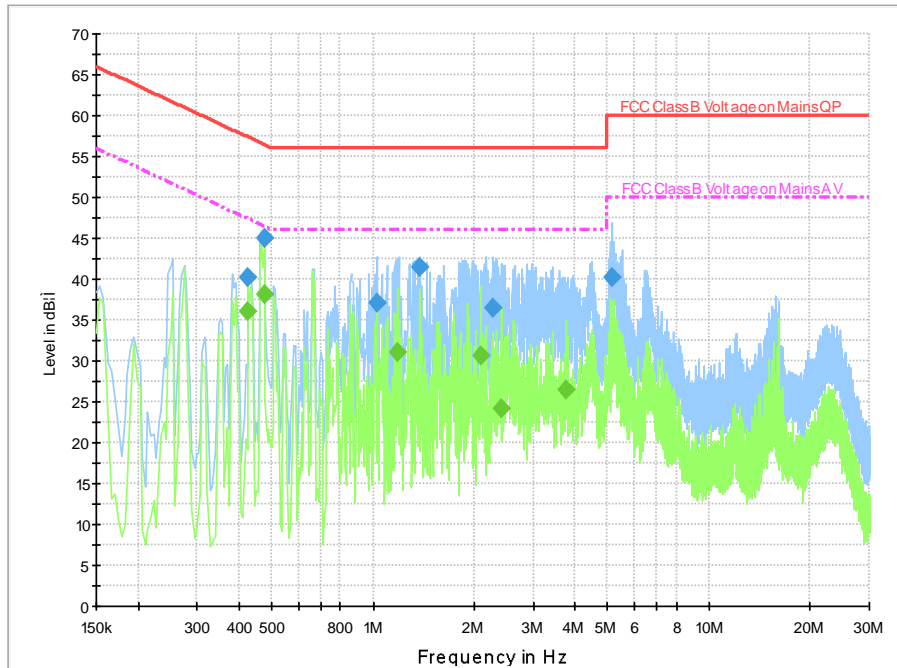
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.542000	19.5	5000.0	9.000	On	N	19.8	26.5	46.0	
0.938000	20.2	5000.0	9.000	On	N	19.6	25.8	46.0	
1.526000	23.1	5000.0	9.000	On	L1	19.7	22.9	46.0	
3.470000	27.0	5000.0	9.000	On	L1	19.6	19.0	46.0	
4.998000	27.7	5000.0	9.000	On	L1	19.6	18.3	46.0	
6.946000	31.5	5000.0	9.000	On	L1	19.8	18.5	50.0	

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
0.430000	42.9	5000.0	9.000	On	L1	19.8	14.3	57.3	
0.470000	41.9	5000.0	9.000	On	N	19.8	14.6	56.5	
0.742000	39.9	5000.0	9.000	On	L1	19.6	16.1	56.0	
3.574000	40.1	5000.0	9.000	On	L1	19.6	15.9	56.0	
4.090000	41.0	5000.0	9.000	On	L1	19.6	15.0	56.0	
7.618000	45.0	5000.0	9.000	On	L1	19.8	15.0	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.730000	23.2	5000.0	9.000	On	L1	19.6	22.8	46.0	
1.210000	23.6	5000.0	9.000	On	L1	19.7	22.4	46.0	
1.310000	22.9	5000.0	9.000	On	L1	19.7	23.1	46.0	
3.078000	23.5	5000.0	9.000	On	L1	19.6	22.5	46.0	
4.502000	28.1	5000.0	9.000	On	L1	19.5	17.9	46.0	
6.950000	31.0	5000.0	9.000	On	L1	19.8	19.0	50.0	

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	40.2	5000.0	9.000	On	L1	19.7	17.1	57.3	
0.474000	44.9	5000.0	9.000	On	L1	19.8	11.5	56.4	
1.030000	37.0	5000.0	9.000	On	N	19.6	19.0	56.0	
1.382000	41.4	5000.0	9.000	On	L1	19.7	14.6	56.0	
2.262000	36.4	5000.0	9.000	On	N	19.7	19.6	56.0	
5.126000	40.2	5000.0	9.000	On	L1	19.6	19.8	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	36.1	5000.0	9.000	On	N	19.8	11.3	47.3	
0.474000	38.1	5000.0	9.000	On	L1	19.8	8.4	46.4	
1.182000	31.0	5000.0	9.000	On	L1	19.7	15.0	46.0	
2.086000	30.5	5000.0	9.000	On	L1	19.6	15.5	46.0	
2.410000	24.1	5000.0	9.000	On	N	19.7	21.9	46.0	
3.738000	26.5	5000.0	9.000	On	N	19.5	19.5	46.0	

END OF REPORT