



FCC PART 15B TEST REPORT

No. I22Z60417-EMC01

for

Wingtech Mobile Communications Co.,Ltd.

5G Mobile Phone

Model name: TMAF025G

FCC ID: 2APXW-TMAF025G

with

Hardware Version: V1.0

Software Version: TMAF025G_0.01.01

Issued Date: 2022-05-07

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.

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:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60417-EMC01	Rev.0	1 st edition	2022-05-07

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: 2022-04-16

Testing End Date: 2022-05-06


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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2.2. Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
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Fax: /

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

3.1. About EUT

Description	5G Mobile Phone
Model Name	TMAF025G
FCC ID:	2APXW-TMAF025G

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	861690060017114	V1.0	TMAF025G_0.01.01

*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	Charger	/	/
AE3	USB Cable	/	/

AE1

Model	RE001
Manufacturer	SUNWODA ELECTRONIC CO., LTD
Capacity	4500mAh
Nominal Voltage	

AE2

Model	/
Manufacturer	/
Length of cable	/

AE3

Model	USB AM TO TYPE-C2.0
Manufacturer	SUNTOPS ELECTRONICS CO.,LTD
Length of cable	/

*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 + AE2 + AE3	Charger1 + MP4 + WCDMA 850 idle
Set.3	EUT1 + AE1 + AE2	USB + front camera +LTE B5 idle

Note:

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



It supports

GSM Band	GSM900/DCS1800/PCS1900/GSM850
UMTS Band	FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)
LTE Band	FDD2/FDD4/FDD5/FDD7/FDD12/FDD25/ FDD26/TDD41/FDD66/FDD71
NR Band	n25/n41/n66/n71/n77

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) ,GPS functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/26/66, NR band n66. 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	ESW44	103023	R&S	2022-10-28	1 Year
2	LISN	ENV216	101200	R&S	2022-05-30	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	2022-07-01	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/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)
17938.120	39.50	-29.40	46.66	22.24	54.00	14.50	V
17968.720	39.30	-29.06	46.66	21.70	54.00	14.70	H
17857.880	39.30	-29.34	45.95	22.68	54.00	14.70	H
17945.260	39.20	-28.94	46.66	21.48	54.00	14.80	V
17789.200	39.20	-29.89	45.95	23.13	54.00	14.80	V
17945.600	39.20	-28.94	46.66	21.48	54.00	14.80	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)
17858.560	50.80	-29.34	45.95	34.18	74.00	23.20	V
17469.260	50.70	-30.06	44.35	36.40	74.00	23.30	V
17520.940	50.70	-29.32	44.35	35.67	74.00	23.30	H
17932.000	50.70	-29.40	46.66	33.44	74.00	23.30	H
17674.280	50.60	-29.90	45.25	35.25	74.00	23.40	V
17864.340	50.50	-29.39	45.95	33.94	74.00	23.50	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)
17952.400	39.60	-28.94	46.66	21.88	54.00	14.40	V
17967.360	39.60	-29.06	46.66	22.00	54.00	14.40	V
17772.540	39.60	-29.63	45.95	23.27	54.00	14.40	H
17969.060	39.50	-29.06	46.66	21.90	54.00	14.50	H
17953.760	39.40	-28.94	46.66	21.68	54.00	14.60	V
17951.720	39.40	-28.94	46.66	21.68	54.00	14.60	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)
17955.460	51.00	-28.94	46.66	33.28	74.00	23.00	H
17962.260	51.00	-29.06	46.66	33.40	74.00	23.00	V
17939.480	50.70	-29.40	46.66	33.44	74.00	23.30	V
17609.340	50.70	-29.52	45.25	34.97	74.00	23.30	H
17965.320	50.50	-29.06	46.66	32.90	74.00	23.50	H
17545.760	50.50	-29.49	44.35	35.63	74.00	23.50	H

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

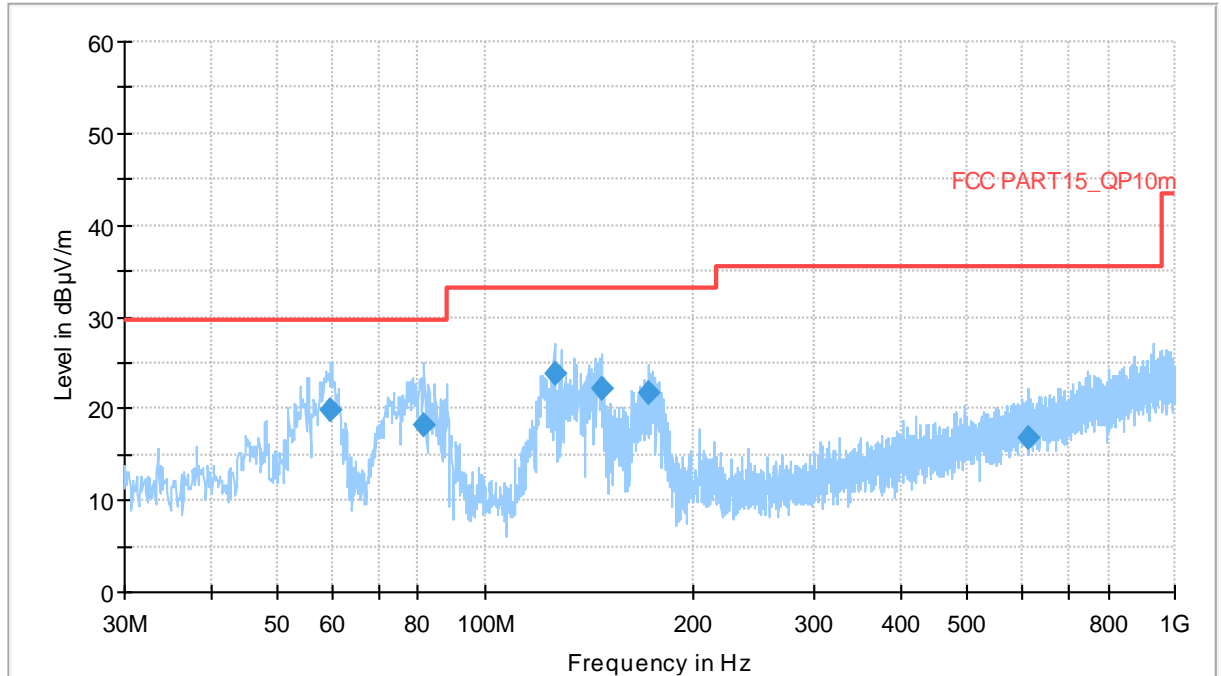
Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17949.340	39.50	-28.94	46.66	21.78	54.00	14.50	H
17950.020	39.50	-28.94	46.66	21.78	54.00	14.50	V
17964.640	39.50	-29.06	46.66	21.90	54.00	14.50	H
17948.320	39.50	-28.94	46.66	21.78	54.00	14.50	H
17976.200	39.50	-29.06	46.66	21.90	54.00	14.50	H
17972.120	39.50	-29.06	46.66	21.90	54.00	14.50	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)
17972.800	50.80	-29.06	46.66	33.20	74.00	23.20	V
17970.080	50.50	-29.06	46.66	32.90	74.00	23.50	H
17796.340	50.50	-29.89	45.95	34.43	74.00	23.50	V
17786.140	50.50	-29.89	45.95	34.43	74.00	23.50	H
17622.260	50.40	-29.40	45.25	34.55	74.00	23.60	H
17964.300	50.30	-29.06	46.66	32.70	74.00	23.70	V

Measurement results for Set.1:

Full Spectrum



- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART15_QP10m [..]
- ◆ Final_Result QPK [Final_Result.Result:4]

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)
59.779000	19.82	29.54	9.72	2000.0	120.000	286.0	V	176.0
81.604000	18.17	29.54	11.37	2000.0	120.000	175.0	V	-3.0
125.933000	23.86	33.06	9.20	2000.0	120.000	125.0	V	6.0
147.661000	22.16	33.06	10.90	2000.0	120.000	98.0	V	3.0
172.784000	21.64	33.06	11.42	2000.0	120.000	98.0	V	182.0
614.619000	16.75	35.56	18.81	2000.0	120.000	186.0	V	94.0

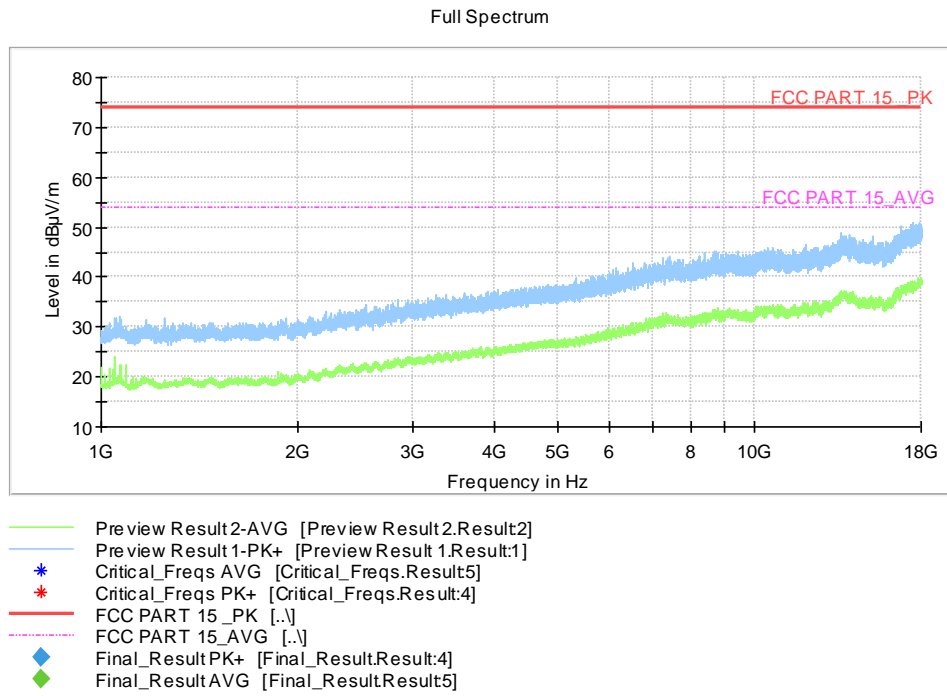
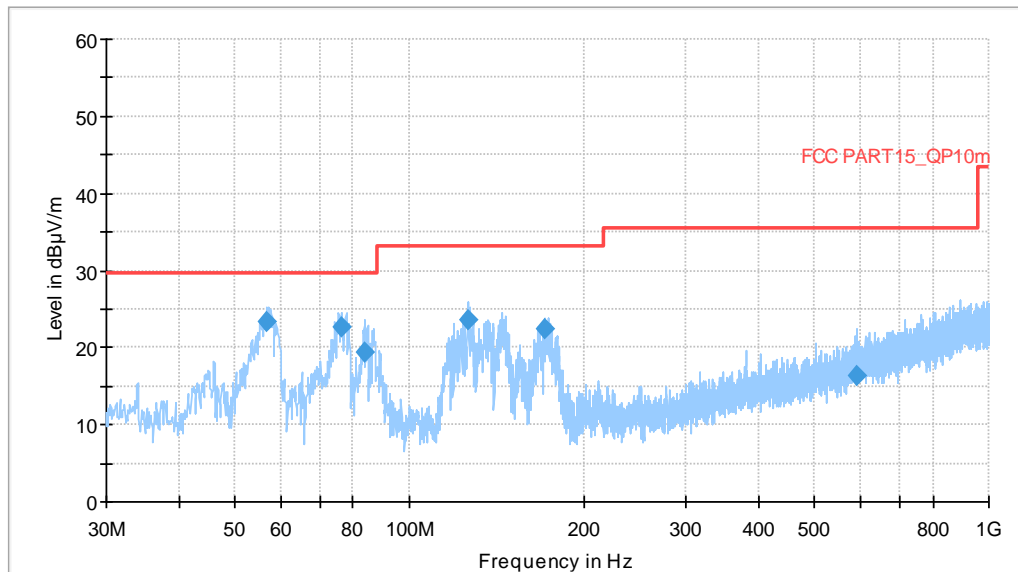


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

Full Spectrum

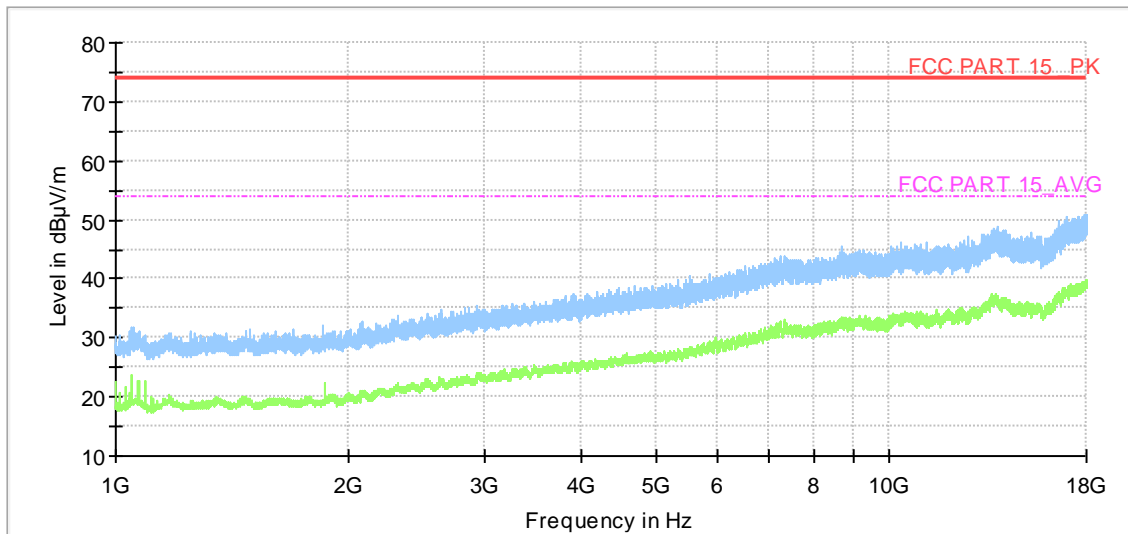


- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART15_QP10m [..]
- ◆ Final_Result QPK [Final_Result.Result:4]

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)
56.772000	23.36	29.54	6.18	2000.0	120.000	175.0	V	177.0
76.560000	22.73	29.54	6.81	2000.0	120.000	186.0	V	-4.0
83.641000	19.42	29.54	10.12	2000.0	120.000	175.0	V	179.0
126.127000	23.66	33.06	9.40	2000.0	120.000	125.0	V	3.0
171.911000	22.37	33.06	10.69	2000.0	120.000	98.0	V	1.0
591.921000	16.24	35.56	19.32	2000.0	120.000	186.0	V	6.0

Full Spectrum

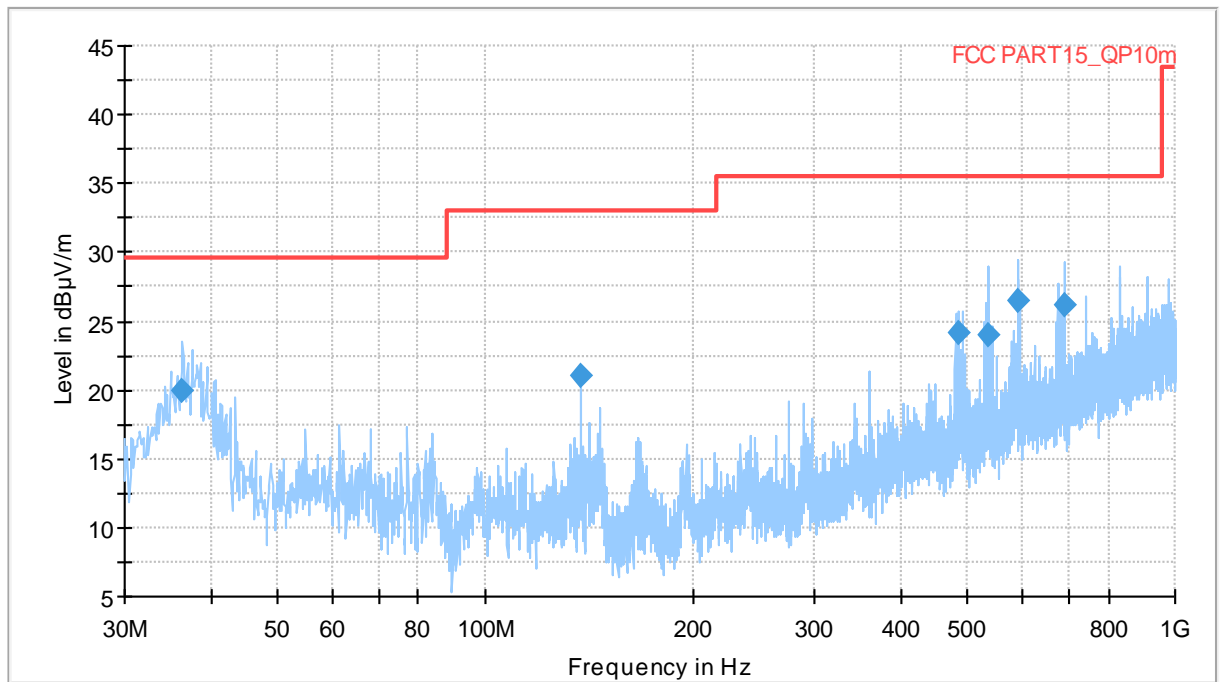


- Preview Result 2-AVG [Preview Result 2.Result 2]
- Preview Result 1-PK+ [Preview Result 1.Result 1]
- * Critical_Freqs AVG [Critical_Freqs.Result 5]
- * Critical_Freqs PK+ [Critical_Freqs.Result 4]
- FCC PART 15_PK [..]
- - - FCC PART 15_AVG [..]
- ◆ Final_Result PK+ [Final_Result.Result 4]
- ◆ Final_Result AVG [Final_Result.Result 5]

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

Measurement results for Set.3:

Full Spectrum

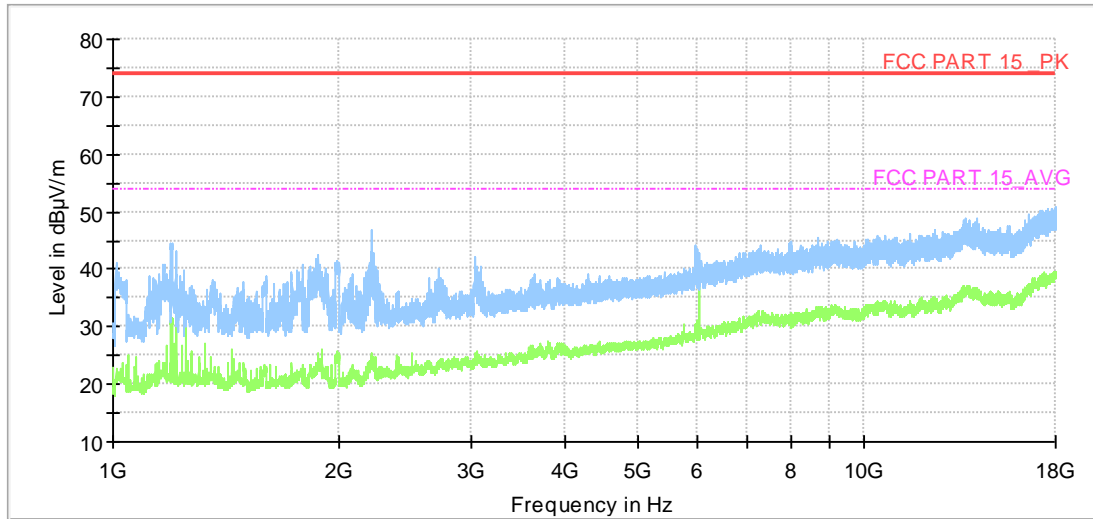


- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART15_QP10m [..]
- ◆ Final_Result QPK [Final_Result.Result:4]

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)
36.402000	20.01	29.54	9.53	2000.0	120.000	125.0	V	-2.0
137.767000	21.06	33.06	12.00	2000.0	120.000	98.0	V	91.0
486.870000	24.22	35.56	11.34	2000.0	120.000	275.0	V	3.0
537.504000	24.01	35.56	11.55	2000.0	120.000	225.0	V	4.0
591.921000	26.46	35.56	9.10	2000.0	120.000	225.0	V	4.0
691.055000	26.19	35.56	9.37	2000.0	120.000	186.0	V	-6.0

Full Spectrum



- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs AVG [Critical_Freqs.Result:5]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15_PK [..]
- - - FCC PART 15_AVG [..]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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:

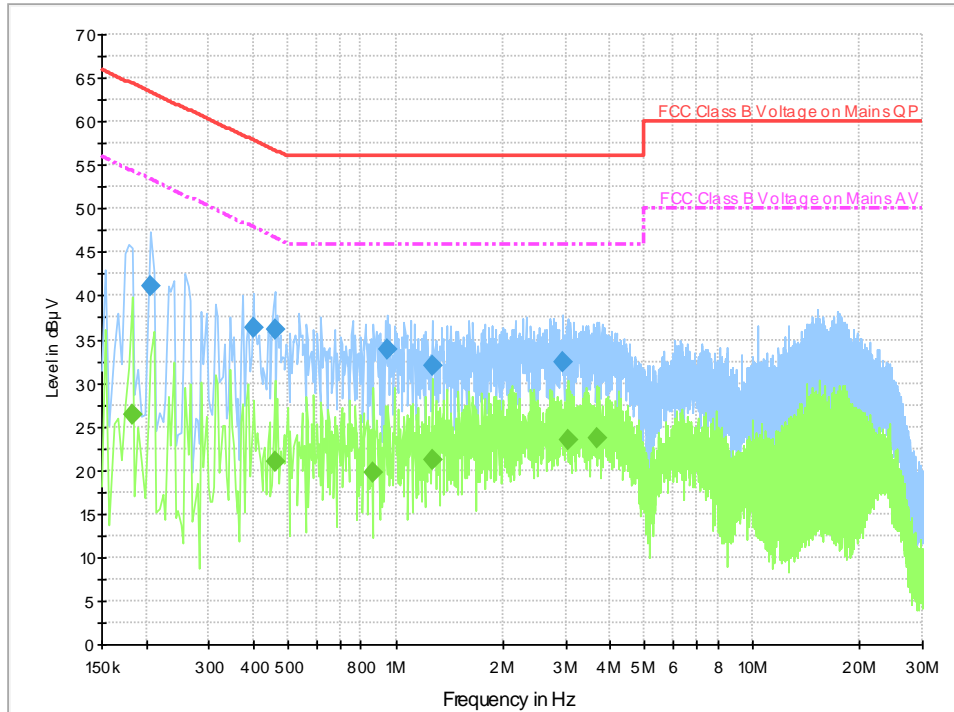


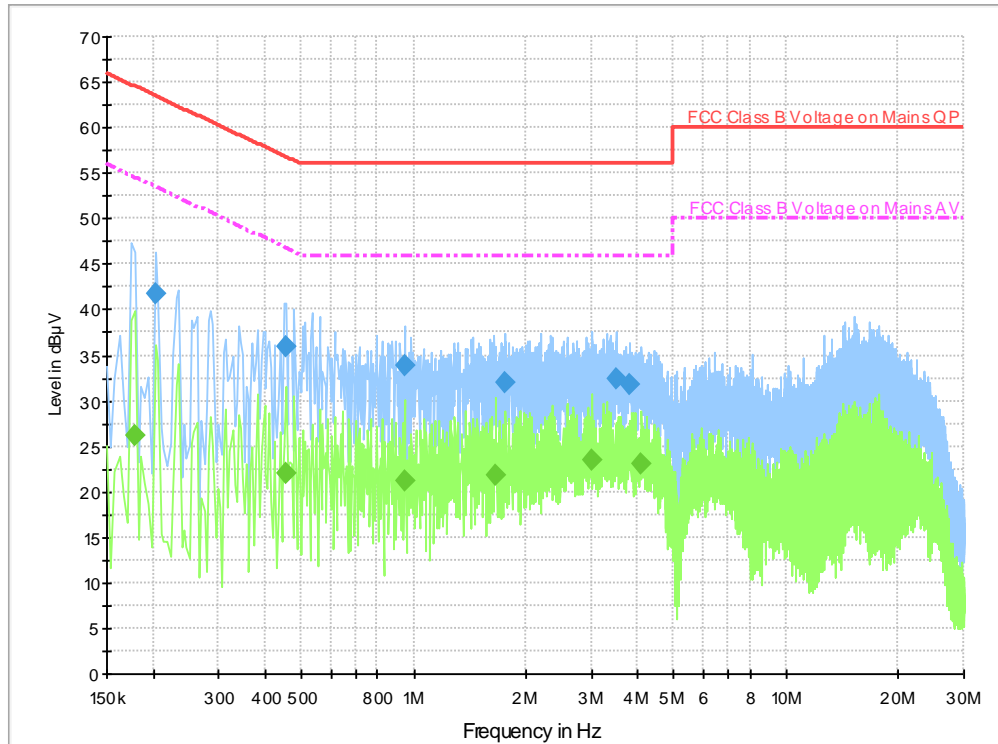
Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.206000	41.1	5000.0	9.000	On	N	19.8	22.2	63.4	
0.398000	36.3	5000.0	9.000	On	N	19.9	21.6	57.9	
0.458000	36.2	5000.0	9.000	On	L1	19.9	20.6	56.7	
0.950000	33.9	5000.0	9.000	On	N	19.8	22.1	56.0	
1.266000	32.1	5000.0	9.000	On	N	19.8	23.9	56.0	
2.942000	32.4	5000.0	9.000	On	N	19.7	23.6	56.0	

Final Result 2

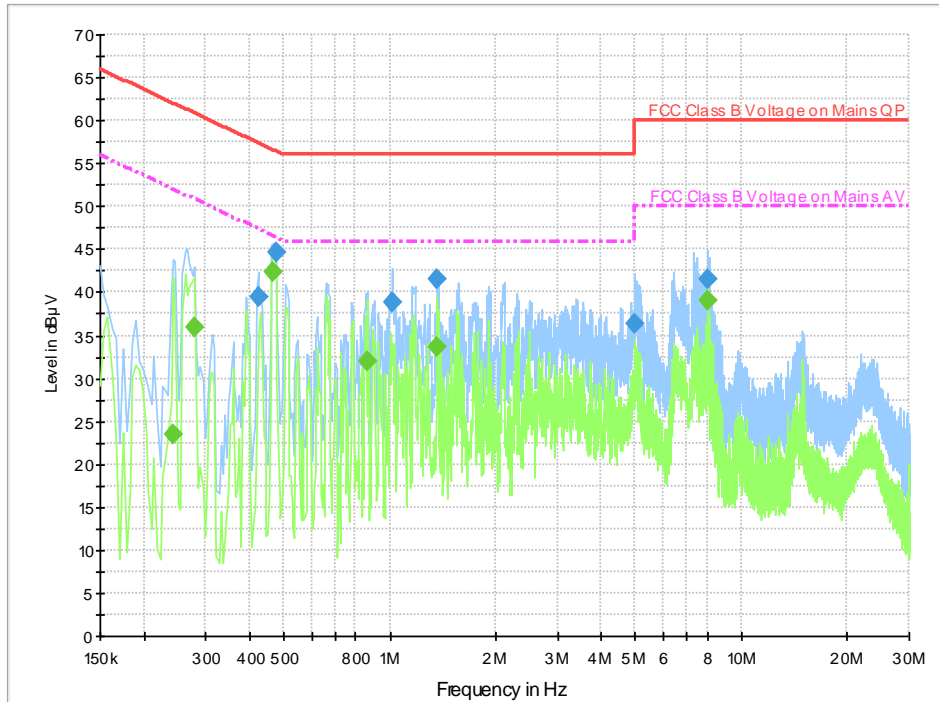
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.182000	26.5	5000.0	9.000	On	L1	20.0	27.9	54.4	
0.458000	21.0	5000.0	9.000	On	L1	19.9	25.7	46.7	
0.866000	19.8	5000.0	9.000	On	N	19.8	26.2	46.0	
1.266000	21.3	5000.0	9.000	On	N	19.8	24.7	46.0	
3.062000	23.6	5000.0	9.000	On	N	19.7	22.4	46.0	
3.650000	23.6	5000.0	9.000	On	N	19.7	22.4	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
0.202000	41.7	5000.0	9.000	On	N	19.8	21.8	63.5	
0.454000	35.9	5000.0	9.000	On	L1	19.9	20.9	56.8	
0.946000	33.8	5000.0	9.000	On	N	19.8	22.2	56.0	
1.758000	32.0	5000.0	9.000	On	N	19.7	24.0	56.0	
3.486000	32.4	5000.0	9.000	On	N	19.7	23.6	56.0	
3.806000	31.8	5000.0	9.000	On	N	19.7	24.2	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.178000	26.3	5000.0	9.000	On	L1	20.0	28.3	54.6	
0.454000	22.1	5000.0	9.000	On	L1	19.9	24.7	46.8	
0.946000	21.2	5000.0	9.000	On	N	19.8	24.8	46.0	
1.662000	21.7	5000.0	9.000	On	N	19.8	24.3	46.0	
2.998000	23.6	5000.0	9.000	On	N	19.7	22.4	46.0	
4.098000	23.0	5000.0	9.000	On	N	19.7	23.0	46.0	

USB Mode, Set.3:

Fig A.9 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.422000	39.4	5000.0	9.000	On	L1	19.9	18.0	57.4	
0.474000	44.6	5000.0	9.000	On	L1	19.9	11.8	56.4	
1.018000	38.9	5000.0	9.000	On	L1	19.6	17.1	56.0	
1.358000	41.5	5000.0	9.000	On	L1	19.5	14.5	56.0	
4.986000	36.4	5000.0	9.000	On	N	19.7	19.6	56.0	
8.018000	41.5	5000.0	9.000	On	L1	19.6	18.5	60.0	

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.242000	23.4	5000.0	9.000	On	N	19.8	28.6	52.0	
0.278000	35.9	5000.0	9.000	On	L1	20.0	15.0	50.9	
0.466000	42.4	5000.0	9.000	On	L1	19.9	4.2	46.6	
0.866000	31.9	5000.0	9.000	On	N	19.8	14.1	46.0	
1.358000	33.7	5000.0	9.000	On	N	19.8	12.3	46.0	
8.014000	39.0	5000.0	9.000	On	L1	19.6	11.0	50.0	

END OF REPORT