



FCC PART 15B TEST REPORT

No. 24T04Z102681-015

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T513W

FCC ID: 2ACCJH186

with

Hardware Version: 03

Software Version: vBCSH

Issued Date: 2025-01-13

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

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

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z102681-015	Rev.0	1 st edition	2025-01-03
24T04Z102681-015	Rev.1	Add the idle frequencies in P6.	2025-01-13

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

CONTENTS

1. TEST LABORATORY	4
1.1. TESTING LOCATION	4
1.2. TESTING ENVIRONMENT	4
1.3. PROJECT DATA	4
1.4. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION.....	5
2.2. MANUFACTURER INFORMATION.....	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT.....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	6
3.4. EUT SET-UPS	6
4. REFERENCE DOCUMENTS.....	7
4.1. REFERENCE DOCUMENTS FOR TESTING.....	7
5. SUMMARY OF TEST RESULTS.....	7
6. TEST EQUIPMENTS UTILIZED.....	8
7. MEASUREMENT UNCERTAINTY	9
ANNEX A: MEASUREMENT RESULTS	10

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

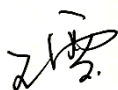
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2024-12-05

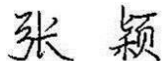
Testing End Date: 2024-12-25

1.4. Signature



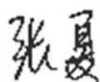
Wang Xue

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T513W
FCC ID:	2ACCJH186

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
UT73a	016604000007600/ 016604000007626	03	vBCSH

*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	Remark
AE1	Battery1	TLp049C9(CAC4900033C9)	FENGHUA	/
AE2	Battery2	TLp049D7(CAC4900007C7)	VEKEN	/
AE3	Charger1	/	/	Provided by lab
AE4	USB Cable1	CDA0000254C1	JUWEI	/
AE5	Headset	/	/	Provided by lab

*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	UT73a + AE1/2 +AE3+AE4	Charger1+MP3+F Camera +GSM 850 idle(893.8MHz)
Set.2	UT73a + AE1/2 +AE3+AE4	Charger1+R Camera + WCDMA B5 idle(871.4MHz)
Set.3	UT73a + AE1/2 +AE4+AE5	USB + FM + LTE B5 idle(881.5MHz)
Set.4	UT73a + AE1/2 +AE5	USB + NR n5 idle (860.89MHz)

Note:

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

It supports

GSM Band	850/900/1800/1900
UMTS Band	FDD Band II(W1900) /FDD Band IV(W1700)/FDD V(W850)
LTE Band	FDD Bands 2/4/5/12/25/26/66/71, TDD Band 41
NR Band	n25/n41/n66/n71

It has MP3, Camera, USB memory, Bluetooth 5.0, 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 5/12/26/71, NR n5/n71, FM. 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	2023
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	150344	R&S	2025-01-03	1 year
7	Universal Communication Tester	CMW500	116588	R&S	2026-01-25	2 years
8	Universal Communication Tester	E7515B	MY60102215	Keysight	2025-07-09	1 year
9	Signal Generator	SMBV100A	260613	R&S	2025-01-18	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 °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, 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 °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

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 ($\mu\text{V/m}$)		
	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:

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

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)
17953.100	44.47	-26.80	42.30	28.97	54.00	9.53	H
17929.600	44.44	-26.80	42.30	28.94	54.00	9.56	H
17951.700	44.44	-26.80	42.30	28.94	54.00	9.56	H
17892.900	44.40	-26.80	42.30	28.90	54.00	9.60	V
17953.800	44.40	-26.80	42.30	28.90	54.00	9.60	H
17920.800	44.36	-26.80	42.30	28.86	54.00	9.64	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)
17948.700	55.94	-26.80	42.30	40.44	74.00	18.06	H
17946.300	55.72	-26.80	42.30	40.22	74.00	18.28	V
17850.700	55.62	-26.80	42.30	40.12	74.00	18.38	H
17921.100	55.58	-26.80	42.30	40.08	74.00	18.42	H
17863.300	55.26	-26.80	42.30	39.76	74.00	18.74	V
17564.100	55.22	-28.04	42.20	41.06	74.00	18.78	V

Measurement results for Set.2:
Charging 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)
17953.800	44.74	-26.80	42.30	29.24	54.00	9.26	V
17955.800	44.68	-26.80	42.30	29.18	54.00	9.32	H
17937.800	44.40	-26.80	42.30	28.90	54.00	9.60	V
17965.700	44.24	-26.80	42.30	28.74	54.00	9.76	H
17951.000	44.23	-26.80	42.30	28.73	54.00	9.77	V
17968.000	44.23	-26.80	42.30	28.73	54.00	9.77	H

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)
17913.600	55.93	-26.80	42.30	40.43	74.00	18.07	H
17953.800	55.33	-26.80	42.30	39.83	74.00	18.67	V
17917.000	55.31	-26.80	42.30	39.81	74.00	18.69	H
17878.300	55.29	-26.80	42.30	39.79	74.00	18.71	V
17961.600	55.09	-26.80	42.30	39.59	74.00	18.91	H
17955.800	55.08	-26.80	42.30	39.58	74.00	18.92	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)
6055.100	48.06	-36.15	35.40	48.81	54.00	5.94	V
6054.800	47.78	-36.15	35.40	48.53	54.00	6.22	V
6055.500	45.70	-36.15	35.40	46.45	54.00	8.30	V
6054.400	44.94	-36.15	35.40	45.69	54.00	9.06	V
17955.500	44.11	-26.80	42.30	28.61	54.00	9.89	H
17962.900	44.08	-26.80	42.30	28.58	54.00	9.92	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)
17937.400	55.15	-26.80	42.30	39.65	74.00	18.85	H
17945.300	55.06	-26.80	42.30	39.56	74.00	18.94	H
17938.500	55.02	-26.80	42.30	39.52	74.00	18.98	H
17957.200	54.86	-26.80	42.30	39.36	74.00	19.14	V
17927.900	54.75	-26.80	42.30	39.25	74.00	19.25	H
17896.300	54.73	-26.80	42.30	39.23	74.00	19.27	V

Measurement results for Set.4:
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)
6053.400	46.55	-36.15	35.40	47.30	54.00	7.45	V
6053.100	45.06	-36.15	35.40	45.81	54.00	8.94	V
6053.800	45.03	-36.15	35.40	45.78	54.00	8.97	V
17927.900	44.16	-26.80	42.30	28.66	54.00	9.84	H
17946.600	44.11	-26.80	42.30	28.61	54.00	9.89	H
17950.000	44.11	-26.80	42.30	28.61	54.00	9.89	H

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)
17959.500	55.57	-26.80	42.30	40.07	74.00	18.43	V
17969.700	55.35	-26.80	42.30	39.85	74.00	18.65	V
17989.100	55.15	-26.80	42.30	39.65	74.00	18.85	H
17923.800	55.14	-26.80	42.30	39.64	74.00	18.86	H
17925.900	54.97	-26.80	42.30	39.47	74.00	19.03	H
17921.800	54.76	-26.80	42.30	39.26	74.00	19.24	H

Measurement results for Set.1:

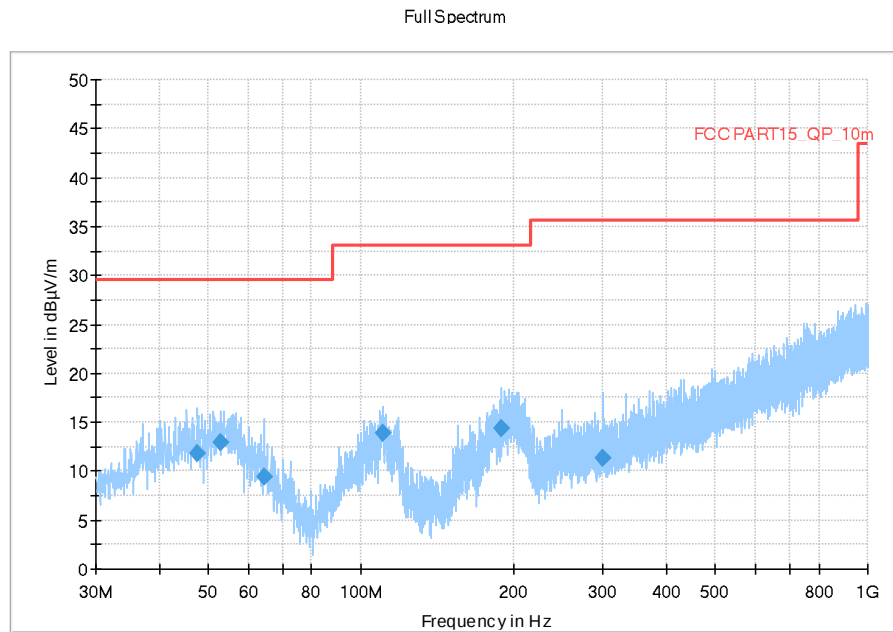


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
47.654000	11.87	29.54	17.67	120.000	223.0	V	83.0
52.940500	12.97	29.54	16.57	120.000	125.0	V	118.0
64.580500	9.45	29.54	20.09	120.000	125.0	V	256.0
110.655500	13.86	33.06	19.20	120.000	101.0	V	200.0
188.983000	14.40	33.06	18.66	120.000	101.0	V	53.0
299.175000	11.42	35.56	24.14	120.000	102.0	V	90.0

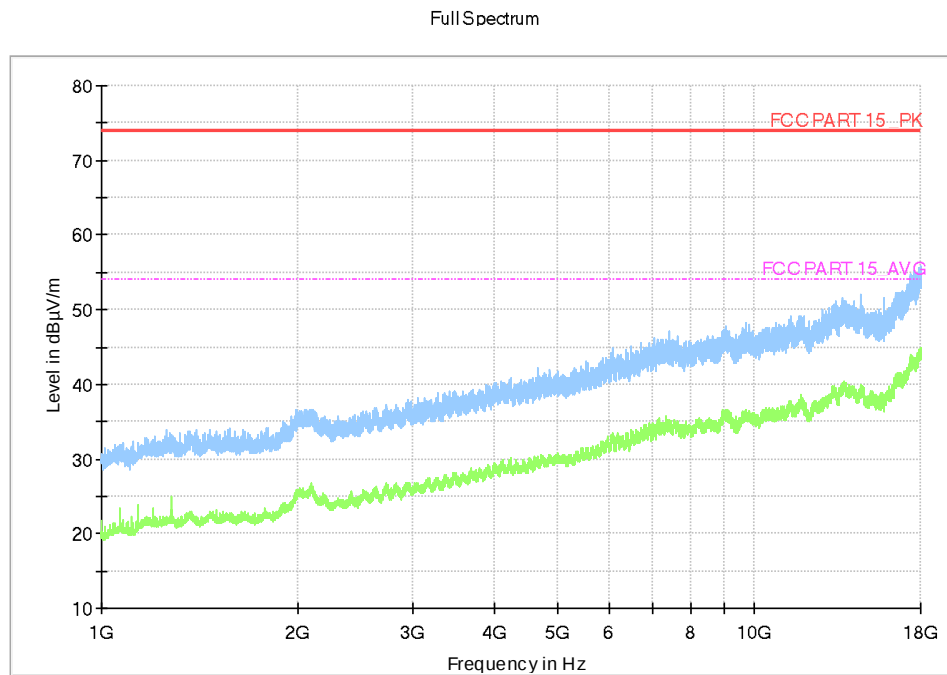


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

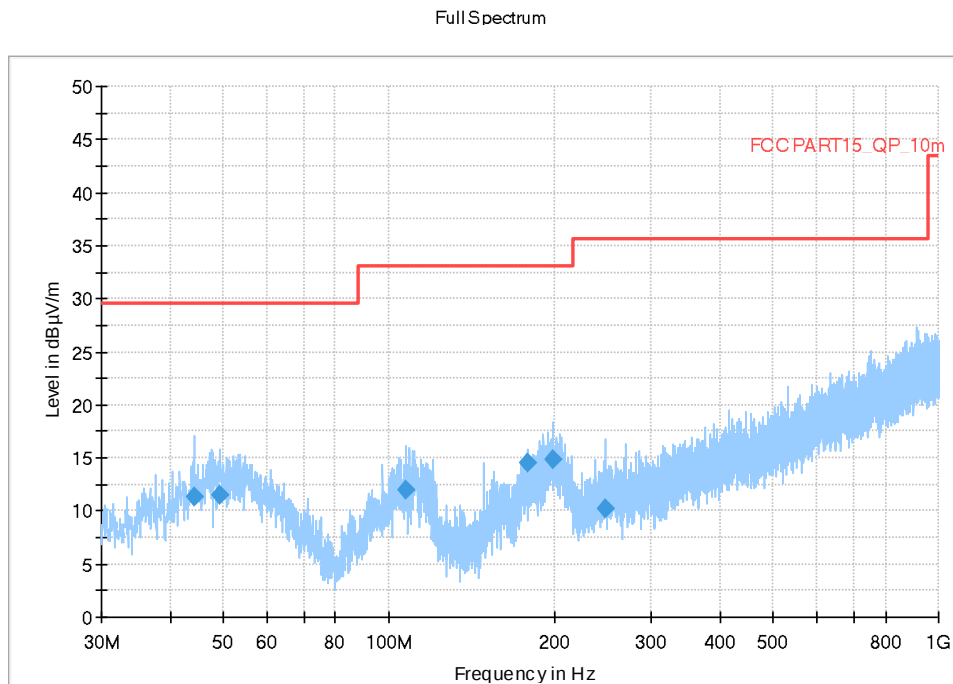


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
44.210500	11.34	29.54	18.20	120.000	176.0	V	-7.0
49.351500	11.53	29.54	18.01	120.000	284.0	V	315.0
107.503000	12.05	33.06	21.01	120.000	198.0	V	195.0
178.992000	14.49	33.06	18.57	120.000	109.0	V	76.0
198.877000	14.82	33.06	18.24	120.000	100.0	V	-30.0
247.183000	10.15	35.56	25.41	120.000	176.0	V	158.0

Full Spectrum

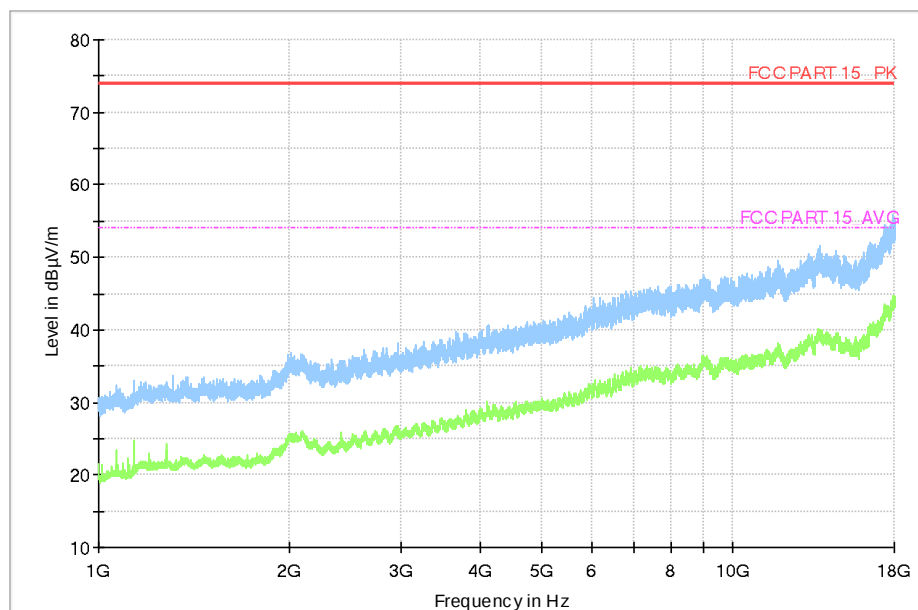


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

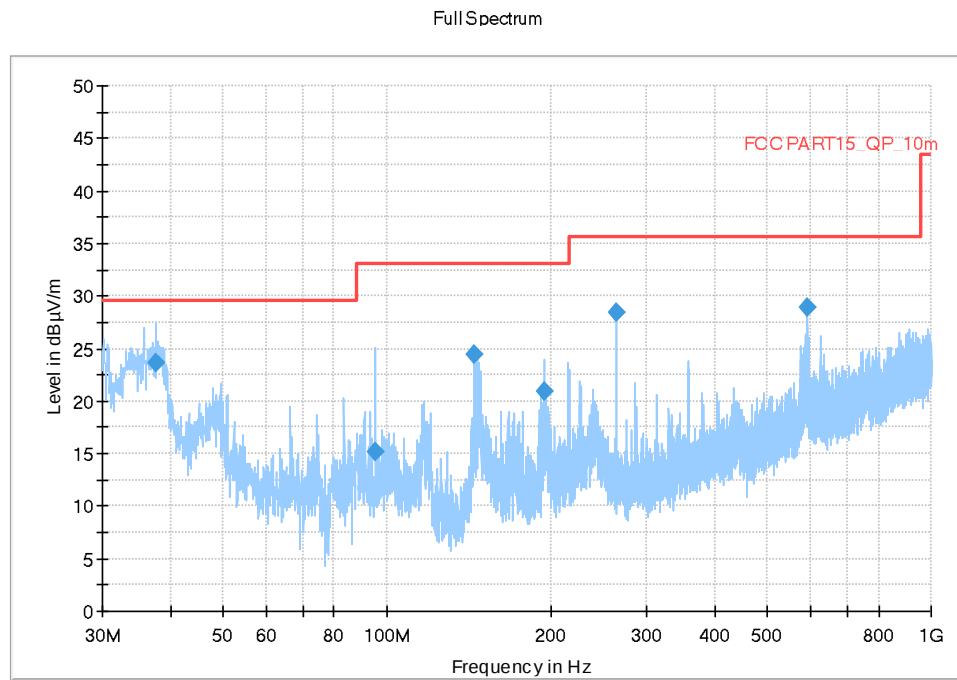


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
37.663000	23.63	29.54	5.91	120.000	100.0	V	150.0
95.378000	15.17	33.06	17.89	120.000	125.0	V	45.0
144.314500	24.37	33.06	8.69	120.000	101.0	V	-30.0
195.191000	20.90	33.06	12.16	120.000	102.0	V	-36.0
264.012500	28.48	35.56	7.08	120.000	279.0	H	315.0
593.182000	28.93	35.56	6.63	120.000	223.0	V	-37.0

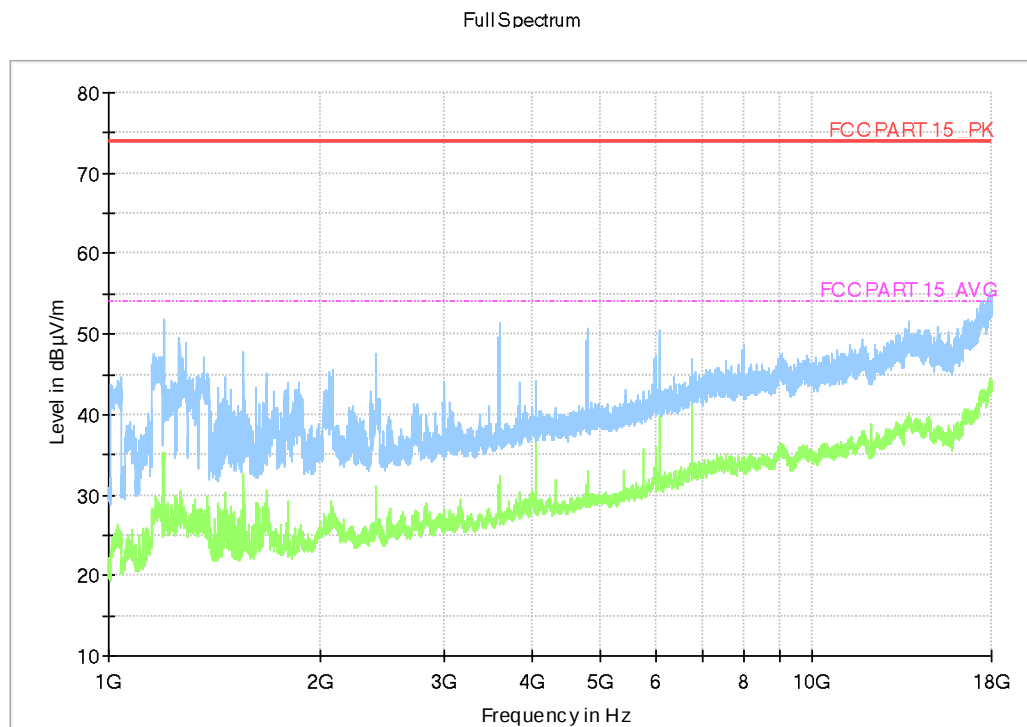


Fig A.6 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.4:

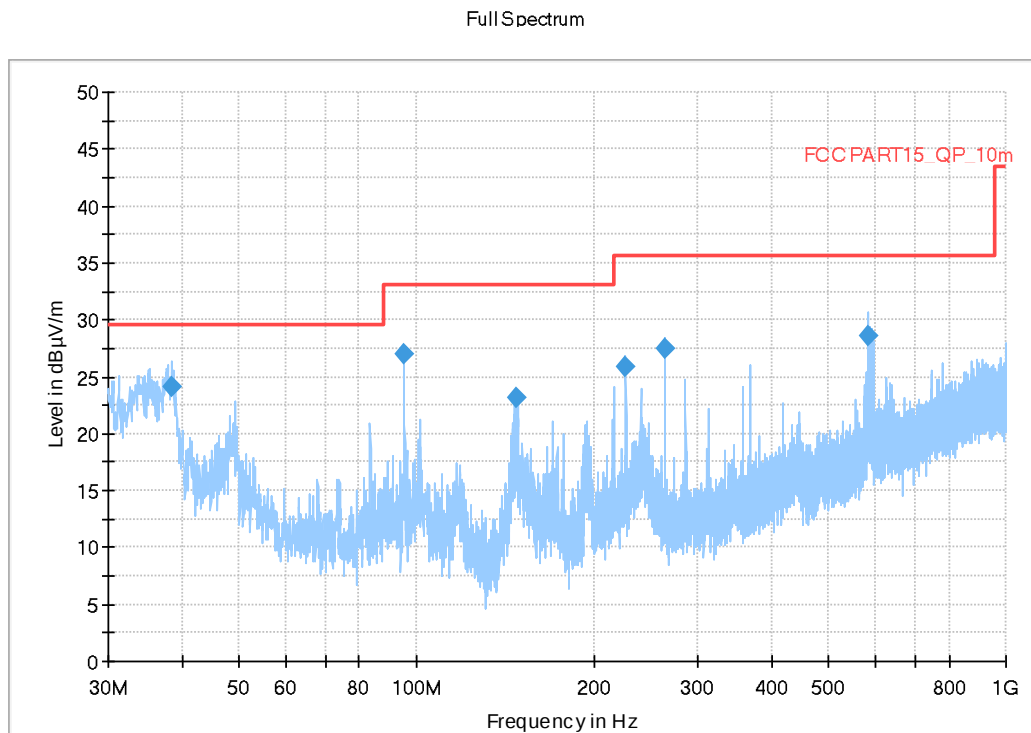


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
38.439000	24.13	29.54	5.41	120.000	215.0	V	68.0
95.426500	26.97	33.06	6.09	120.000	125.0	V	45.0
147.709500	23.08	33.06	9.98	120.000	100.0	V	315.0
226.619000	25.81	35.56	9.75	120.000	323.0	H	188.0
264.012500	27.47	35.56	8.09	120.000	290.0	H	21.0
582.851500	28.58	35.56	6.98	120.000	225.0	V	-44.0

Full Spectrum

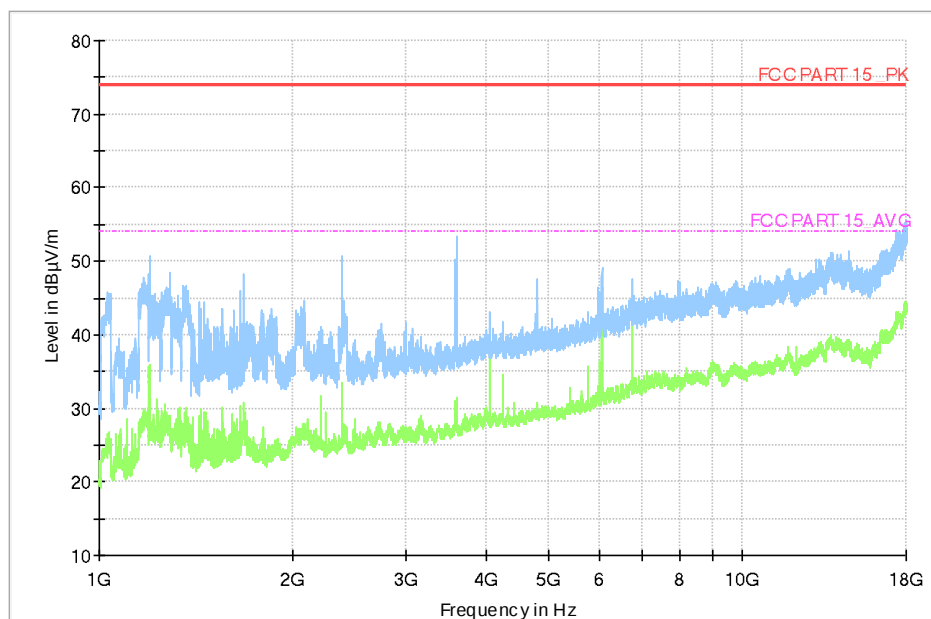


Fig A.8 Radiated Emission from 1GHz to 18GHz

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

Charging Mode, Set.1:

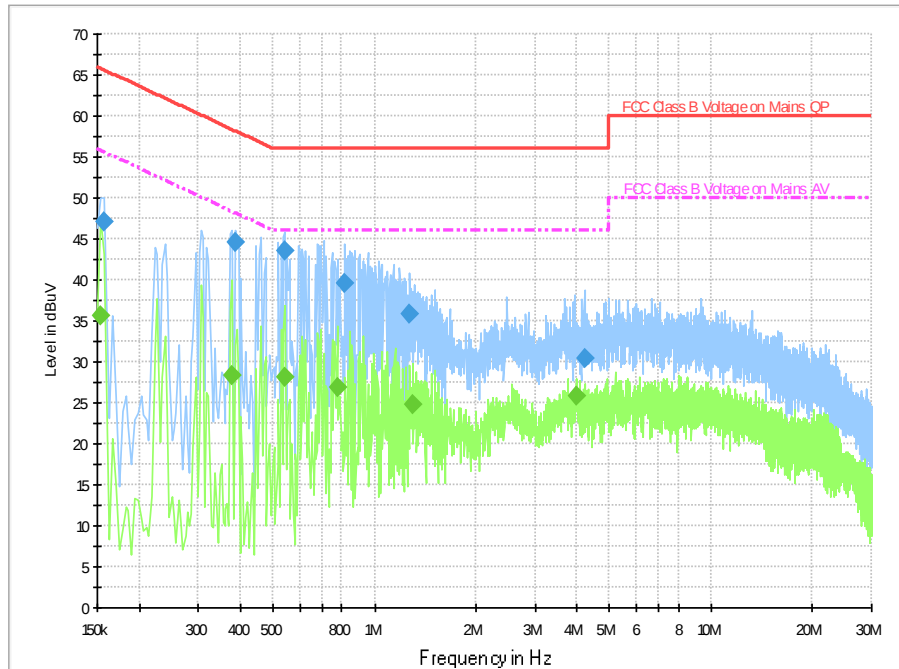


Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.158000	47.1	2000.0	9.000	On	L1	19.9	18.5	65.6	
0.386000	44.6	2000.0	9.000	On	N	19.8	13.5	58.1	
0.542000	43.5	2000.0	9.000	On	L1	20.0	12.5	56.0	
0.818000	39.6	2000.0	9.000	On	L1	19.9	16.4	56.0	
1.270000	35.9	2000.0	9.000	On	N	19.7	20.1	56.0	
4.202000	30.5	2000.0	9.000	On	L1	19.8	25.5	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154000	35.6	2000.0	9.000	On	N	20.0	20.2	55.8	
0.378000	28.4	2000.0	9.000	On	L1	19.9	20.0	48.3	
0.542000	28.2	2000.0	9.000	On	L1	20.0	17.8	46.0	
0.774000	26.9	2000.0	9.000	On	N	19.8	19.1	46.0	
1.302000	24.7	2000.0	9.000	On	L1	19.9	21.3	46.0	
4.002000	25.8	2000.0	9.000	On	L1	19.8	20.2	46.0	

Charging Mode, Set.2:

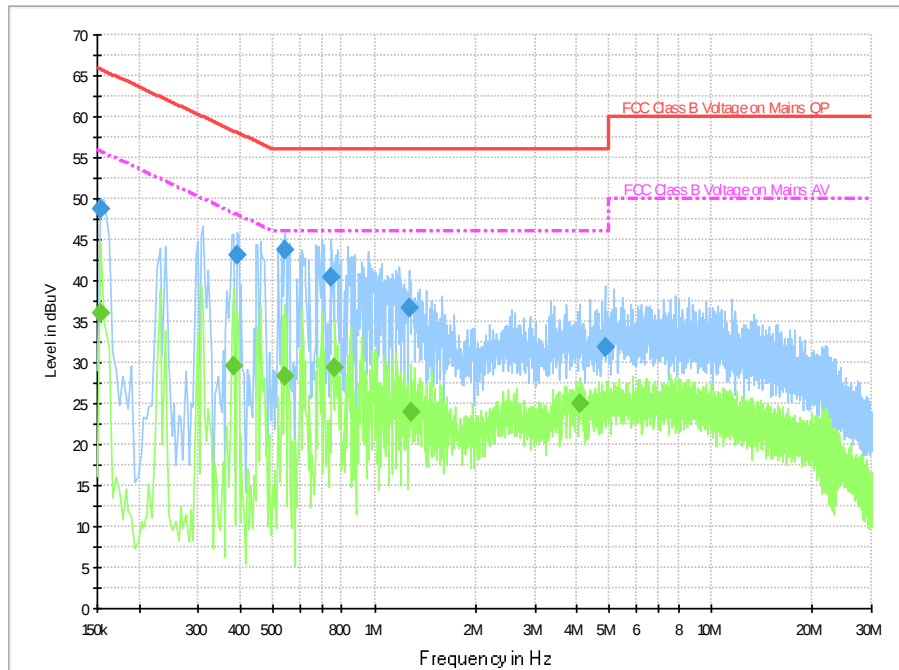


Fig A.10 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154000	48.7	2000.0	9.000	On	L1	20.0	17.1	65.8	
0.390000	43.2	2000.0	9.000	On	L1	19.9	14.9	58.1	
0.542000	43.6	2000.0	9.000	On	L1	20.0	12.4	56.0	
0.746000	40.4	2000.0	9.000	On	L1	20.0	15.6	56.0	
1.270000	36.7	2000.0	9.000	On	L1	19.9	19.3	56.0	
4.830000	31.9	2000.0	9.000	On	L1	19.8	24.1	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154000	36.0	2000.0	9.000	On	L1	20.0	19.7	55.8	
0.382000	29.7	2000.0	9.000	On	N	19.8	18.6	48.2	
0.542000	28.3	2000.0	9.000	On	L1	20.0	17.7	46.0	
0.762000	29.4	2000.0	9.000	On	L1	19.9	16.6	46.0	
1.286000	23.9	2000.0	9.000	On	L1	19.9	22.1	46.0	
4.082000	24.9	2000.0	9.000	On	L1	19.8	21.1	46.0	

USB Mode, Set.3:

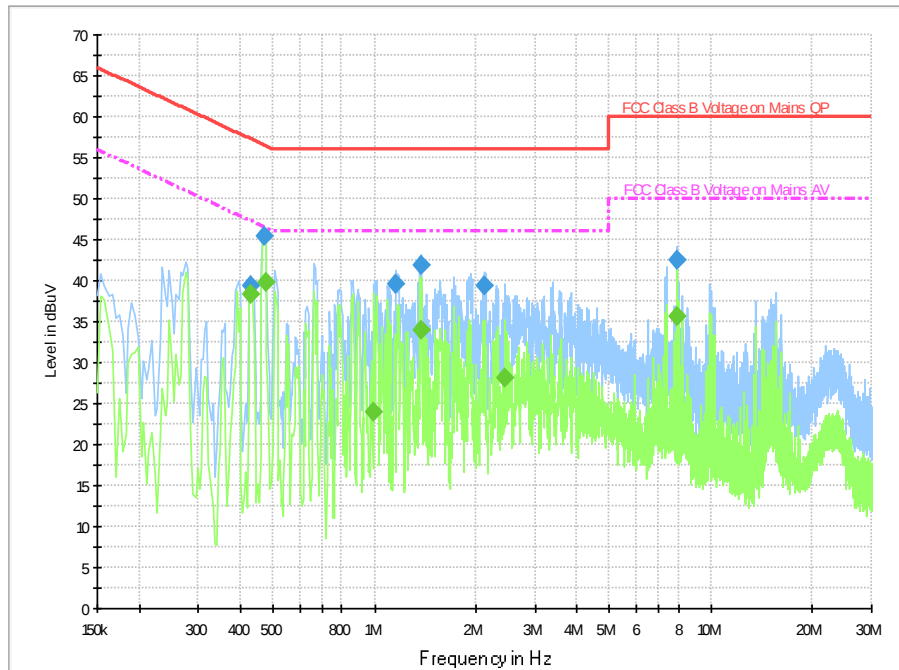


Fig A.11 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	39.3	2000.0	9.000	On	N	19.9	18.0	57.3	
0.470000	45.4	2000.0	9.000	On	L1	20.0	11.1	56.5	
1.162000	39.6	2000.0	9.000	On	L1	19.9	16.4	56.0	
1.378000	41.9	2000.0	9.000	On	L1	19.9	14.1	56.0	
2.130000	39.5	2000.0	9.000	On	N	19.6	16.5	56.0	
7.922000	42.4	2000.0	9.000	On	L1	19.9	17.6	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	38.4	2000.0	9.000	On	L1	20.0	8.9	47.3	
0.474000	39.8	2000.0	9.000	On	N	19.9	6.7	46.4	
0.998000	23.9	2000.0	9.000	On	L1	19.9	22.1	46.0	
1.378000	33.9	2000.0	9.000	On	L1	19.9	12.1	46.0	
2.450000	28.2	2000.0	9.000	On	L1	19.8	17.8	46.0	
7.926000	35.7	2000.0	9.000	On	N	19.7	14.3	50.0	

USB Mode, Set.4:

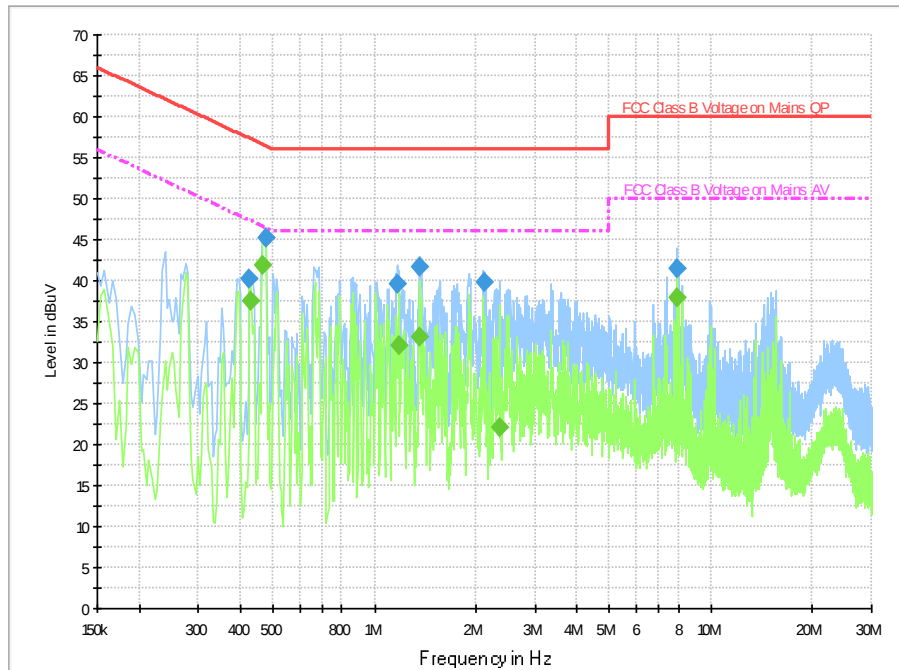


Fig A.12 Conducted Emission from 150kHz to 30MHz

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	2000.0	9.000	On	L1	20.0	17.2	57.3	
0.474000	45.2	2000.0	9.000	On	N	19.9	11.3	56.4	
1.170000	39.5	2000.0	9.000	On	L1	19.9	16.5	56.0	
1.366000	41.8	2000.0	9.000	On	L1	19.9	14.2	56.0	
2.126000	39.7	2000.0	9.000	On	N	19.6	16.3	56.0	
7.926000	41.5	2000.0	9.000	On	L1	19.9	18.5	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	37.6	2000.0	9.000	On	N	19.9	9.7	47.3	
0.466000	41.9	2000.0	9.000	On	N	19.9	4.6	46.6	
1.182000	32.1	2000.0	9.000	On	L1	19.9	13.9	46.0	
1.366000	33.2	2000.0	9.000	On	L1	19.9	12.8	46.0	
2.346000	22.1	2000.0	9.000	On	N	19.6	23.9	46.0	
7.926000	37.9	2000.0	9.000	On	L1	19.9	12.1	50.0	

END OF REPORT