



TEST REPORT

No. I20Z61503-EMC01

for

TCL Communication Ltd.

5G NR/ LTE/WCDMA/GSM Mobile Phone

Model Name: T781

FCC ID: 2ACCJH133

with

Hardware Version: PIO

Software Version: 1A5A

Issued Date: 2020-10-29

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z61503-EMC01	Rev.0	1 st edition	2020-10-26
I20Z61503-EMC01	Rev.1	Update information in page 8	2020-10-29

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



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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

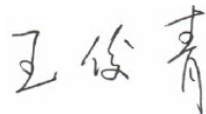
1.3. Testing Environment

Normal Temperature: 15-35° C
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2020-09-28
Testing End Date: 2020-10-25

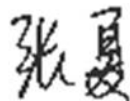
1.5. Signature



Wang Junqing
(Prepared this test report)



Zhang Ying
(Reviewed this test report)



Zhang Xia
Deputy Director of the laboratory
(Approved this test report)



2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
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Contact Person Gong Zhizhou
Contact Email zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	5G NR/ LTE/WCDMA/GSM Mobile Phone
Model Name	T781
FCC ID	2ACCJH133
Extreme vol. Limits	3.5VDC to 4.4VDC (nominal: 3.8VDC)

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
38a	358008610207418/	PIO	1A5A
	358008610207426		

*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	Note
AE1	Battery	/	/
AE2	Battery	/	/
AE6	Charger	/	CH016/023 for FCC
AE7	Charger	/	CH049/054 for FCC
AE8	Charger	/	CD028/031 for FCC
AE12	Headset	/	SH002/006
AE13	USB Cable	/	DC017/018
AE14	USB Cable	/	DC002/004

AE1

Model	TLp043E7(CAC4360002C7)
Manufacturer	veken
Capacitance	4500mAh
Nominal voltage	3.85V

AE2

Model	TLp043E1(CAC4360006C1)
Manufacturer	BYD
Capacitance	4500mAh
Nominal voltage	/

AE6

Model	CBA0059BGTC5
Manufacturer	PUAN
Length of cable	/



AE7

Model	CBA0059BGTC7
Manufacturer	CHENYANG
Length of cable	/

AE8

Model	CBA0064BGTC5
Manufacturer	PUAN
Length of cable	/

AE12

Model	CCB0070B10C1
Manufacturer	JUWEI
Length of cable	/

AE13

Model	CDA0000128C1
Manufacturer	JUWEI
Length of cable	/

AE14

Model	CDA0000128C2
Manufacturer	SHENGHUA
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

EUT set-up No.	Combination of EUT and AE	Remarks
Set.F1	EUT38a + AE1/AE2 + AE6 + AE12+ AE13/AE14	Charger + FM +GSM850MHz
Set.F2	EUT38a + AE1/AE2 + AE7 + AE13/AE14	Charger + Camera +WB5
Set.F3	EUT38a + AE1/AE2 + AE8 + AE13/AE14	Charger + MP3 +LTE B5/26
Set.F4	EUT38a + AE1/AE2 + AE13/AE14	USB

Note:

The device supports GSM 850/1900/900/1800 and UMTS FDD Band 1/2/5/8 and E-UTRA FDD Band 1/3/5/7/8/20/26/28/32 and TDD Band 38/40/41. It has WLAN (802.11a/b/g/n/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz and 40MHz and 80MHz bandwidth) functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850 and LTE Band 5/26. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst results are shown in the report.

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-2 (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(BDA)
2	Conducted Emission	15.107(a)	B.2	P	CTTL(BDA)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2020-10-30	1 Year
2	LISN	ENV216	101459	R&S	2021-03-17	1 year
3	Universal Radio Communication Tester	CMW500	159408	R&S	2021-03-04	1 year
4	Test Receiver	ESCI	100766	R&S	2021-03-10	1 Year
5	EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2021-09-16	1 year
6	EMI Antenna	3117	00139065	ETS-Lindgren	2020-11-10	1 year
7	Signal Power	SMF100A	101295	R&S	2020-11-06	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/BW	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

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

Measurement results for Set.F1:

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)
17056.000	40.58	-23.0	42.1	21.47	54.0	13.4	H
17641.000	40.56	-22.0	41.6	21.03	54.0	13.4	V
17640.500	40.52	-22.0	41.6	20.98	54.0	13.5	H
16960.000	40.48	-23.0	42.1	21.35	54.0	13.5	H
17738.500	40.46	-22.3	41.6	21.18	54.0	13.5	V
17709.500	40.45	-22.2	41.6	21.09	54.0	13.5	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)
17682.500	53.5	-22.1	41.6	34.09	74.0	20.5	H
17045.500	52.7	-23.0	42.1	33.57	74.0	21.3	V
17689.000	52.7	-22.2	41.6	33.27	74.0	21.3	V
17980.500	52.6	-22.8	41.5	33.93	74.0	21.4	V
17768.000	52.6	-22.3	41.5	33.34	74.0	21.4	H
17561.500	52.5	-22.5	41.6	33.43	74.0	21.5	V

Measurement results for Set.F2:
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)
17704.500	40.61	-22.2	41.6	21.24	54.0	13.4	V
17709.000	40.54	-22.2	41.6	21.18	54.0	13.5	H
17687.500	40.45	-22.1	41.6	21.03	54.0	13.6	H
17652.000	40.42	-22.1	41.6	20.92	54.0	13.6	V
17643.500	40.42	-22.0	41.6	20.90	54.0	13.6	H
17724.000	40.41	-22.2	41.6	21.09	54.0	13.6	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)
17698.000	53.81	-22.2	41.6	34.43	74.0	20.2	H
17700.000	53.16	-22.2	41.6	33.78	74.0	20.8	H
17461.000	52.88	-23.2	41.6	34.39	74.0	21.1	V
17874.500	52.72	-22.6	41.5	33.76	74.0	21.3	V
17684.500	52.61	-22.1	41.6	33.19	74.0	21.4	H
17587.000	52.59	-22.3	41.6	33.34	74.0	21.4	V

Measurement results for Set.F3:
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)
17643.000	40.60	-22.0	41.6	21.07	54.0	13.4	H
17693.500	40.54	-22.2	41.6	21.14	54.0	13.5	V
17725.000	40.50	-22.2	41.6	21.18	54.0	13.5	V
17715.500	40.46	-22.2	41.6	21.12	54.0	13.5	V
17644.500	40.45	-22.0	41.6	20.93	54.0	13.5	V
17638.500	40.45	-22.0	41.6	20.91	54.0	13.6	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)
16992.500	52.8	-23.0	42.2	33.66	74.0	21.2	V
16882.500	52.7	-23.0	42.0	33.68	74.0	21.3	V
17188.000	52.7	-22.9	42.0	33.64	74.0	21.3	H
16892.000	52.6	-23.0	42.1	33.60	74.0	21.4	V
17782.000	52.6	-22.4	41.5	33.43	74.0	21.4	V
17602.500	52.6	-22.2	41.6	33.23	74.0	21.4	H

Measurement results for Set.F4:
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)
17637.000	40.54	-22.0	41.6	21.00	54.0	13.5	H
17646.000	40.49	-22.1	41.6	20.97	54.0	13.5	V
17647.500	40.45	-22.1	41.6	20.93	54.0	13.6	H
17640.000	40.45	-22.0	41.6	20.91	54.0	13.6	H
17709.500	40.44	-22.2	41.6	21.09	54.0	13.6	V
17689.000	40.44	-22.2	41.6	21.03	54.0	13.6	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)
16997.000	53.7	-23.0	42.2	34.56	74.0	20.3	H
17049.500	53.5	-23.0	42.1	34.43	74.0	20.5	V
17144.000	52.9	-23.0	42.0	33.90	74.0	21.1	V
17037.500	52.9	-23.0	42.2	33.74	74.0	21.1	V
17519.500	52.9	-22.8	41.6	34.03	74.0	21.1	V
17156.500	52.8	-23.0	42.0	33.80	74.0	21.2	V

Measurement results for Set.F1:

15B RE 30MHz-1GHz

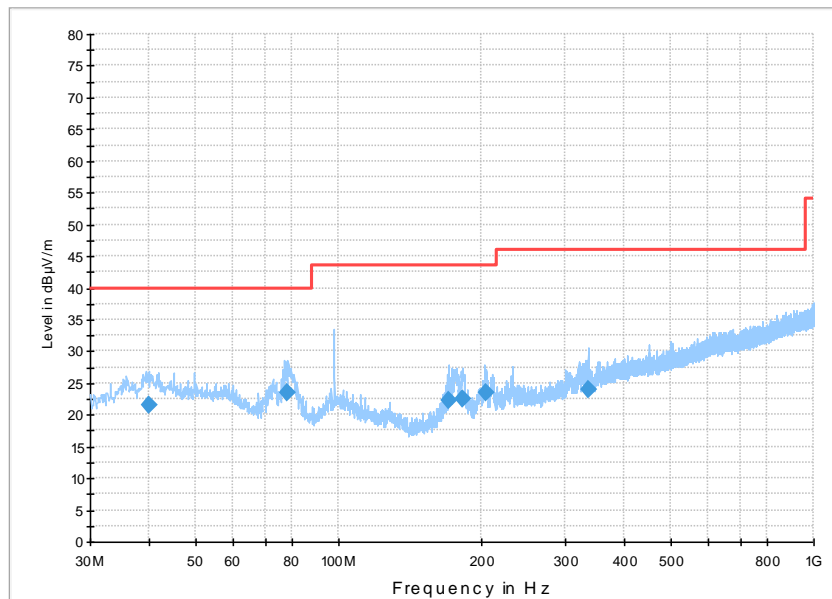


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
39.797000	21.6	119.0	V	7.0	-0.2	18.4	40.0	
78.209000	23.5	125.0	V	295.0	-5.9	16.5	40.0	
170.359000	22.2	100.0	V	-3.0	-3.6	21.3	43.5	
182.969000	22.4	110.0	V	-7.0	-3.0	21.1	43.5	
204.212000	23.4	100.0	V	122.0	-1.4	20.1	43.5	
335.744000	23.9	100.0	V	171.0	2.3	22.1	46.0	

15B RE - 1GHz-3GHz

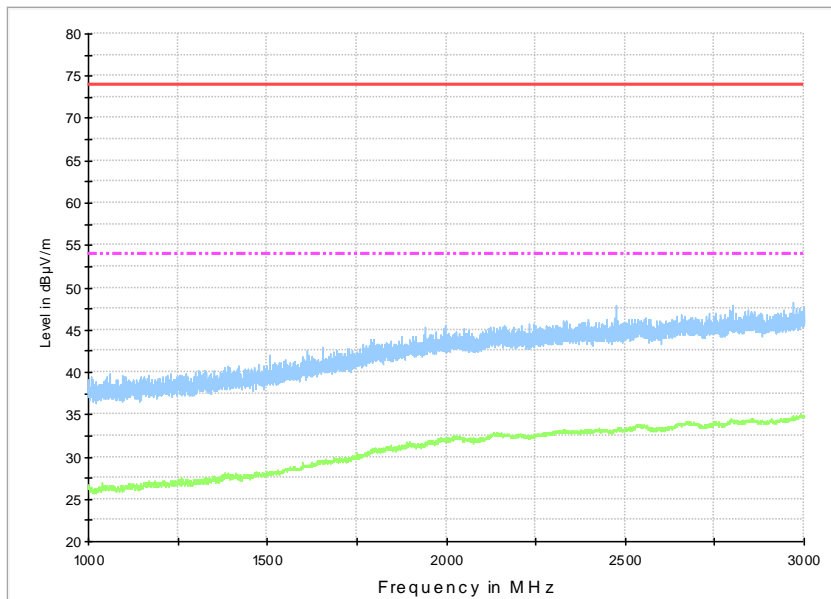


Fig A.2 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

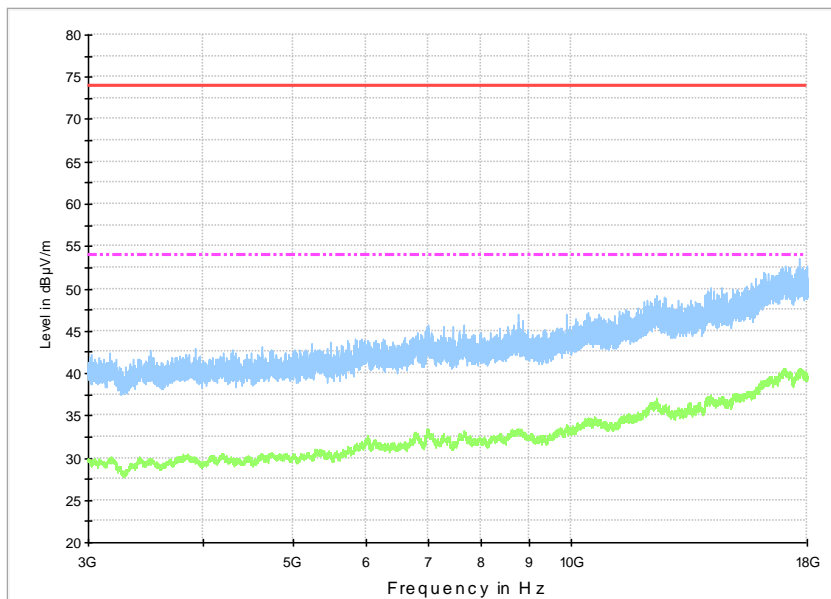


Fig A.3 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.F2:

15B RE 30MHz-1GHz

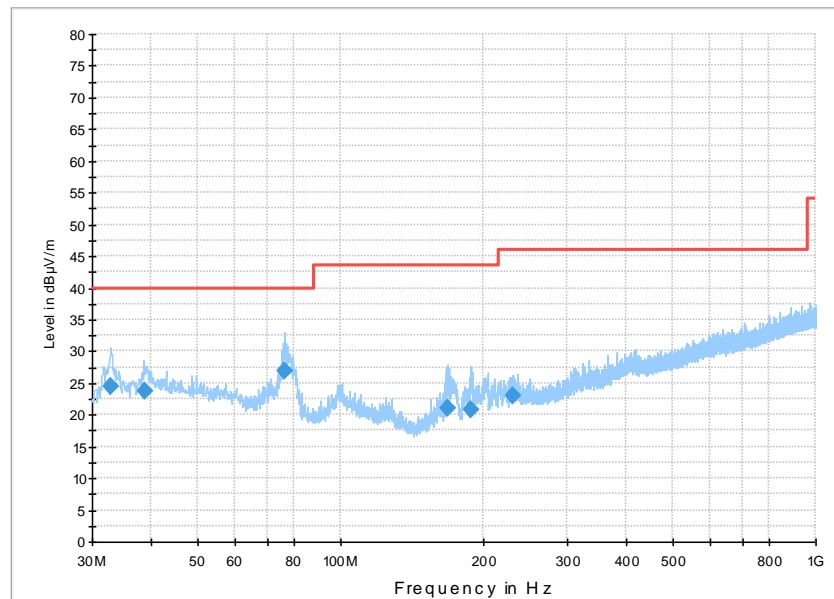


Fig A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
32.813000	24.6	100.0	V	149.0	-1.4	15.4	40.0	
38.730000	23.8	110.0	V	-10.0	-0.3	16.2	40.0	
76.269000	26.8	100.0	V	270.0	-5.4	13.2	40.0	
168.031000	21.0	110.0	V	1.0	-3.7	22.5	43.5	
188.498000	20.8	100.0	V	97.0	-2.5	22.7	43.5	
230.790000	23.0	100.0	H	62.0	-0.4	23.0	46.0	

15B RE - 1GHz-3GHz

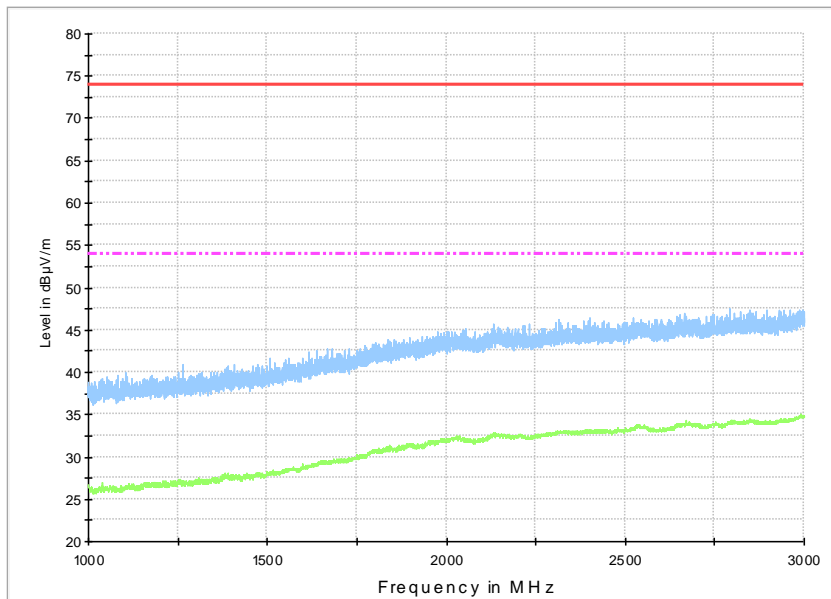


Fig A.5 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

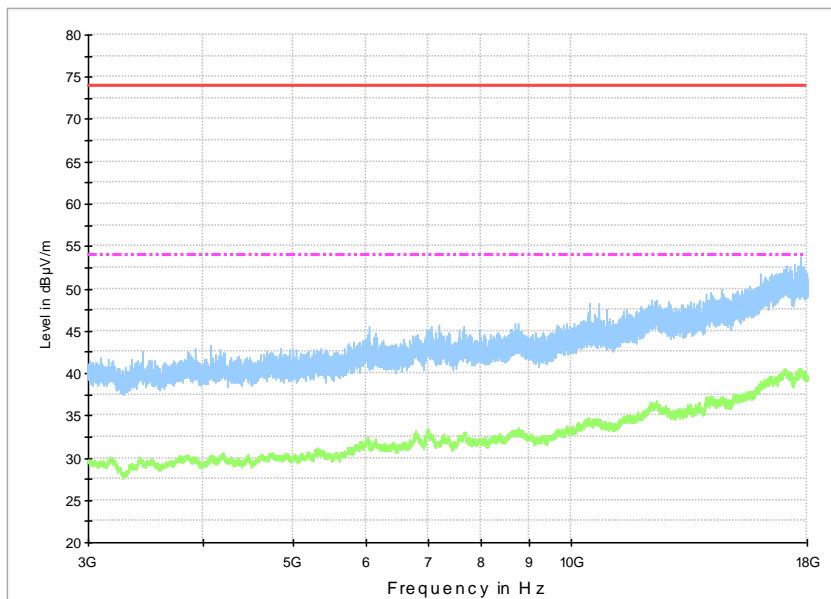


Fig A.6 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.F3:

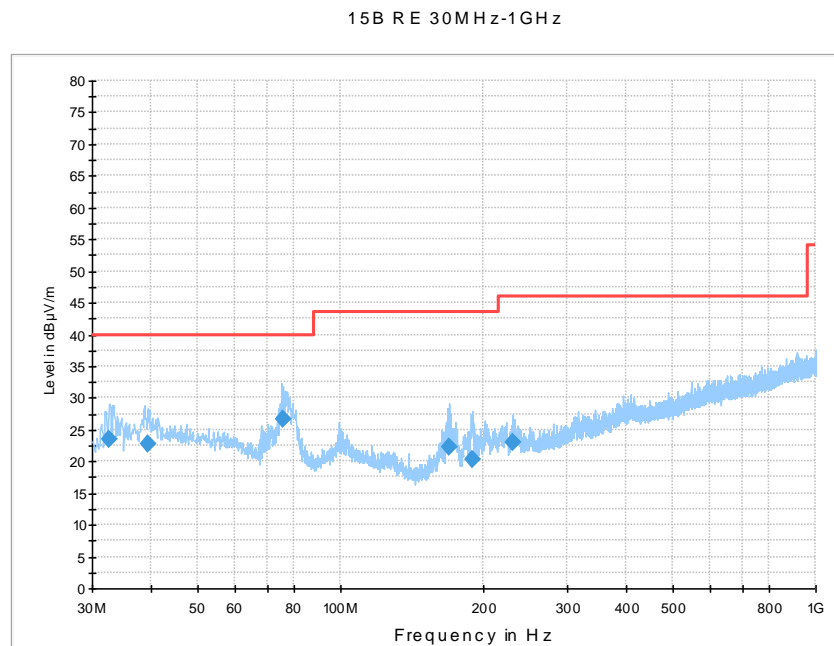


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
32.522000	23.4	100.0	V	119.0	-1.4	16.6	40.0	
39.215000	22.8	125.0	V	183.0	-0.3	17.2	40.0	
75.687000	26.6	100.0	V	277.0	-5.3	13.4	40.0	
168.904000	22.2	100.0	V	-3.0	-3.7	21.3	43.5	
189.565000	20.2	119.0	V	122.0	-2.4	23.3	43.5	
230.790000	23.0	100.0	H	84.0	-0.4	23.0	46.0	

15B RE - 1GHz-3GHz

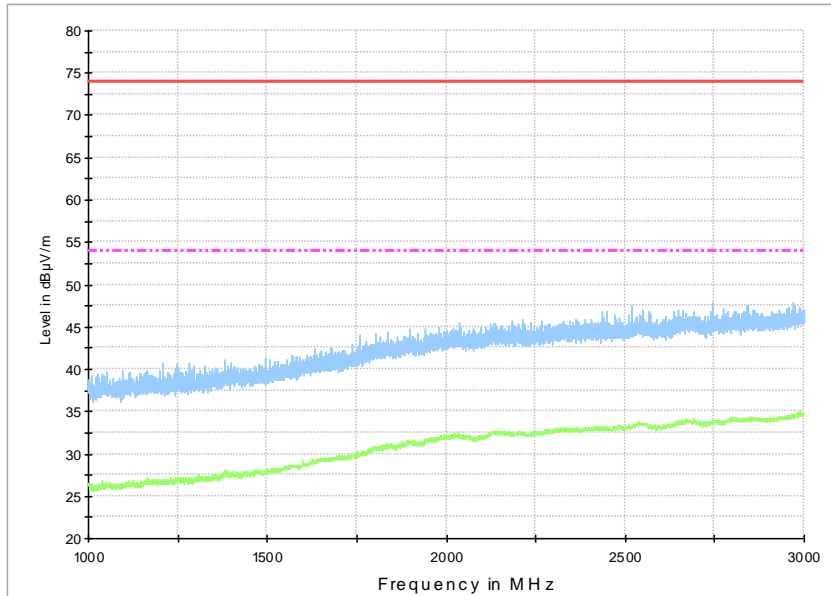


Fig A.8 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

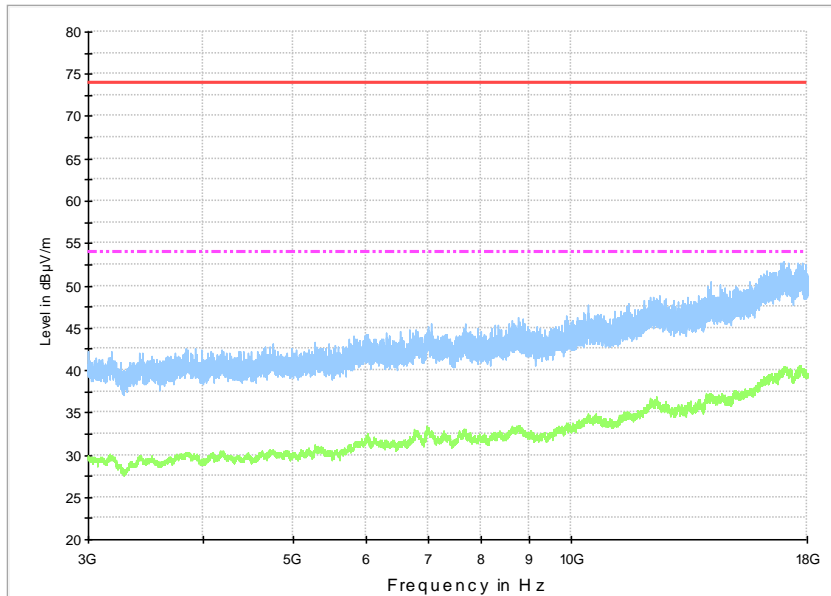


Fig A.9 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.F4:

15B RE 30MHz-1GHz

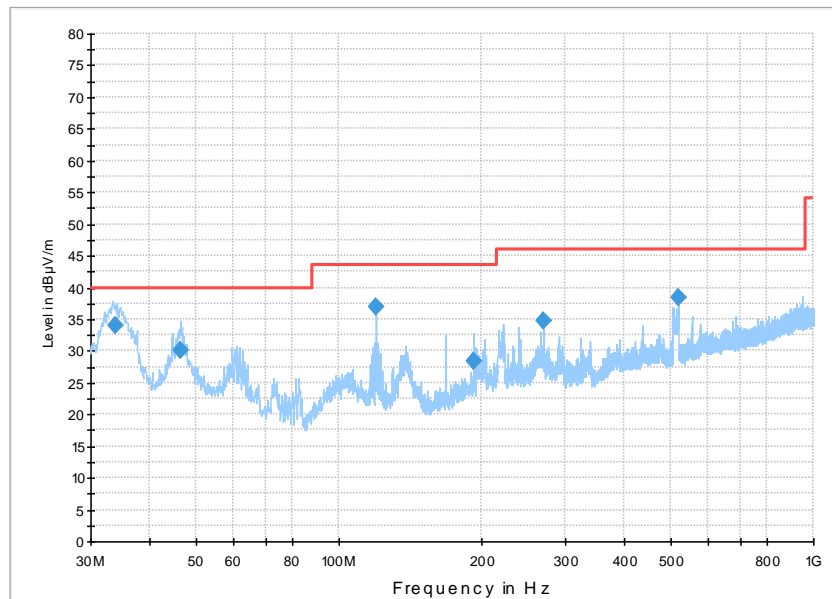


Fig A.10 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
33.783000	33.9	100.0	V	315.0	-1.2	6.1	40.0	
46.490000	30.0	100.0	V	278.0	0.0	10.0	40.0	
120.016000	36.9	125.0	H	28.0	-3.3	6.6	43.5	
191.990000	28.5	110.0	H	55.0	-2.2	15.0	43.5	
270.754000	34.8	100.0	H	90.0	0.1	11.2	46.0	
519.850000	38.4	125.0	V	-42.0	6.4	7.6	46.0	

15B RE - 1GHz-3GHz

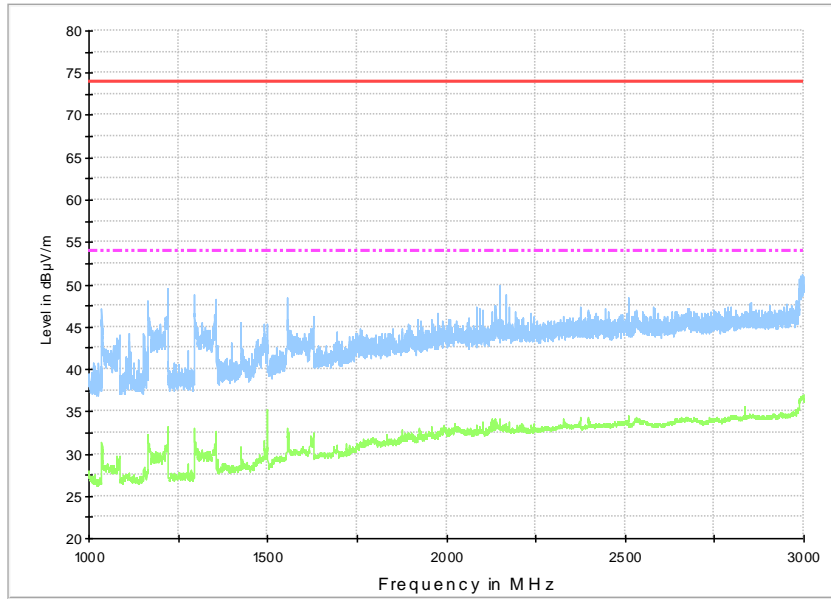


Fig A.11 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

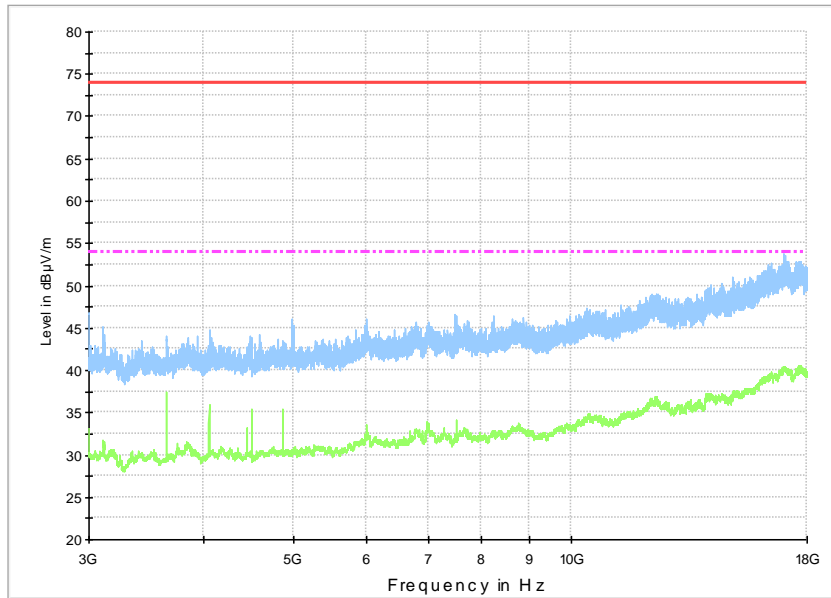


Fig A.12 Radiated Emission from 3GHz to 18GHz

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

Charging Mode, Set.F1:

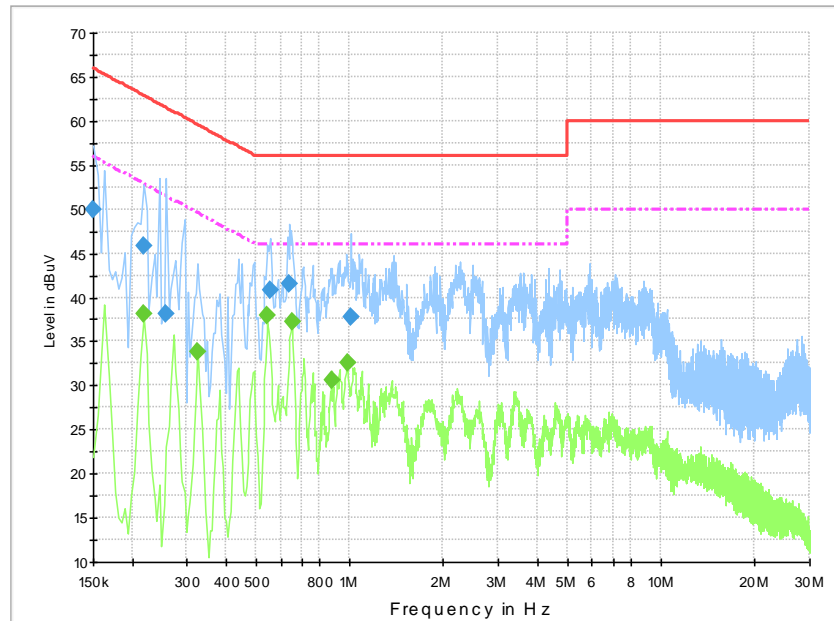


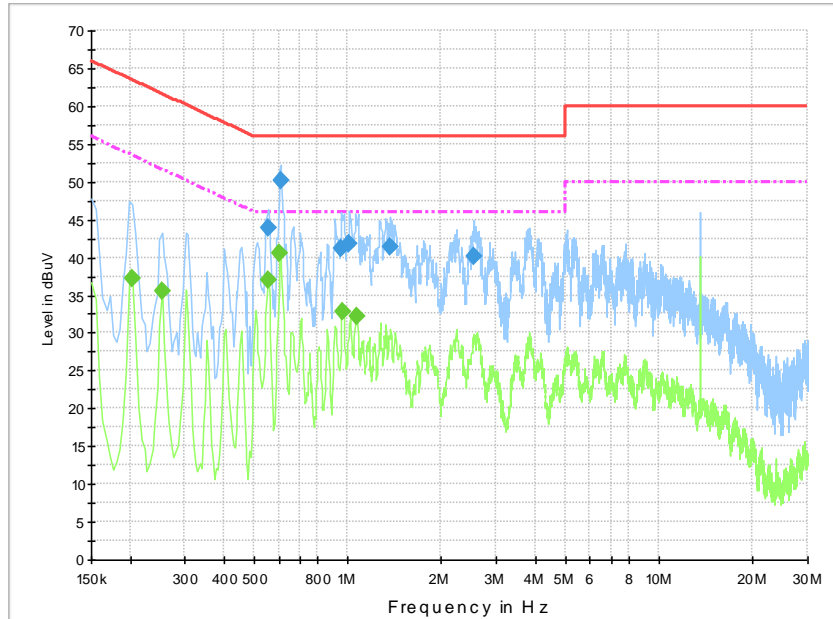
Fig A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.150000	49.9	5000.0	9.000	On	L1	19.8	16.1	66.0	
0.217500	45.8	5000.0	9.000	On	L1	19.9	17.1	62.9	
0.258000	38.1	5000.0	9.000	On	L1	19.9	23.4	61.5	
0.555000	40.8	5000.0	9.000	On	L1	20.0	15.2	56.0	
0.640500	41.5	5000.0	9.000	On	L1	19.9	14.5	56.0	
1.009500	37.7	5000.0	9.000	On	L1	19.8	18.3	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.217500	38.0	5000.0	9.000	On	L1	19.9	14.9	52.9	
0.325500	33.9	5000.0	9.000	On	L1	19.9	15.7	49.6	
0.546000	37.9	5000.0	9.000	On	L1	20.0	8.1	46.0	
0.654000	37.2	5000.0	9.000	On	L1	19.9	8.8	46.0	
0.874500	30.6	5000.0	9.000	On	L1	19.8	15.4	46.0	
0.987000	32.6	5000.0	9.000	On	L1	19.8	13.4	46.0	

Charging Mode, Set.F2:

Fig A.14 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
0.555000	43.8	5000.0	9.000	On	L1	20.0	12.2	56.0	
0.609000	50.2	5000.0	9.000	On	L1	19.9	5.8	56.0	
0.955500	41.1	5000.0	9.000	On	L1	19.9	14.9	56.0	
1.014000	41.7	5000.0	9.000	On	L1	19.8	14.3	56.0	
1.369500	41.4	5000.0	9.000	On	L1	19.8	14.6	56.0	
2.553000	40.1	5000.0	9.000	On	L1	19.8	15.9	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.204000	37.2	5000.0	9.000	On	L1	19.9	16.2	53.4	
0.253500	35.6	5000.0	9.000	On	L1	19.9	16.1	51.6	
0.555000	37.0	5000.0	9.000	On	L1	20.0	9.0	46.0	
0.604500	40.6	5000.0	9.000	On	L1	20.0	5.4	46.0	
0.964500	32.8	5000.0	9.000	On	L1	19.9	13.2	46.0	
1.068000	32.2	5000.0	9.000	On	L1	19.8	13.8	46.0	

Charging Mode, Set.F3:

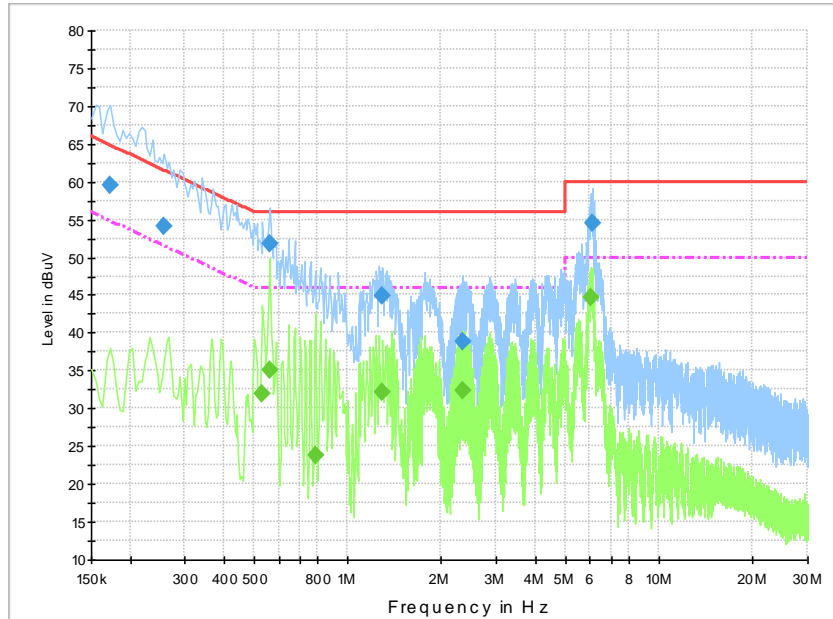


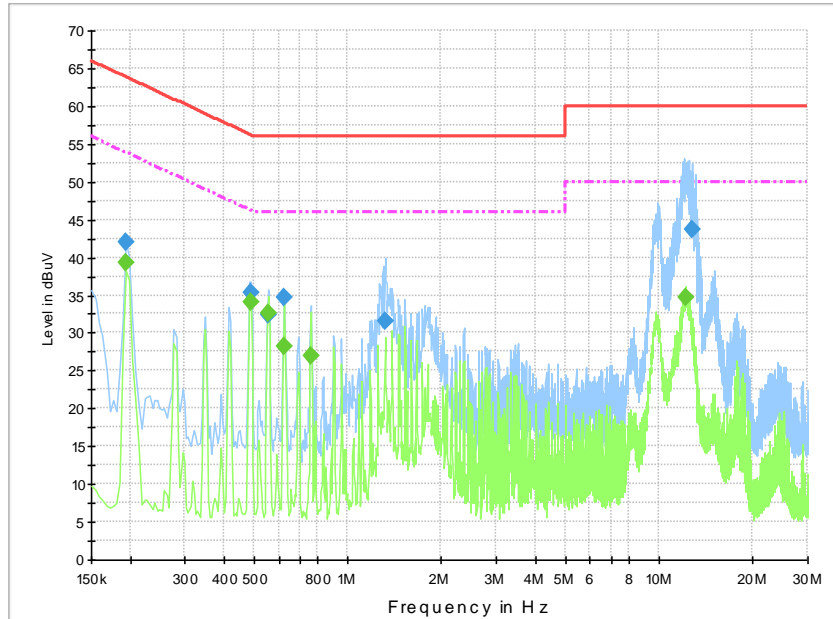
Fig A.15 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.172500	59.5	5000.0	9.000	On	L1	20.1	5.3	64.8	
0.258000	54.0	5000.0	9.000	On	L1	19.9	7.5	61.5	
0.559500	51.7	5000.0	9.000	On	L1	20.0	4.3	56.0	
1.297500	44.9	5000.0	9.000	On	L1	19.8	11.1	56.0	
2.341500	38.8	5000.0	9.000	On	L1	19.8	17.2	56.0	
6.139500	54.5	5000.0	9.000	On	L1	19.8	5.5	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.532500	32.0	5000.0	9.000	On	L1	20.0	14.0	46.0	
0.559500	35.1	5000.0	9.000	On	L1	20.0	10.9	46.0	
0.789000	23.9	5000.0	9.000	On	L1	19.9	22.1	46.0	
1.293000	32.2	5000.0	9.000	On	L1	19.8	13.8	46.0	
2.337000	32.4	5000.0	9.000	On	L1	19.8	13.6	46.0	
6.058500	44.8	5000.0	9.000	On	L1	19.8	5.2	50.0	

USB Mode, Set.F4:

Fig A.16 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
0.195000	42.0	5000.0	9.000	On	L1	20.0	21.8	63.8	
0.487500	35.4	5000.0	9.000	On	L1	20.0	20.8	56.2	
0.555000	32.5	5000.0	9.000	On	L1	20.0	23.5	56.0	
0.627000	34.6	5000.0	9.000	On	N	19.9	21.4	56.0	
1.320000	31.6	5000.0	9.000	On	L1	19.8	24.4	56.0	
12.727500	43.6	5000.0	9.000	On	N	20.0	16.4	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	39.4	5000.0	9.000	On	N	20.0	14.4	53.8	
0.487500	34.1	5000.0	9.000	On	L1	20.0	12.1	46.2	
0.555000	32.6	5000.0	9.000	On	L1	20.0	13.4	46.0	
0.622500	28.1	5000.0	9.000	On	L1	19.9	17.9	46.0	
0.762000	27.0	5000.0	9.000	On	L1	19.9	19.0	46.0	
12.124500	34.8	5000.0	9.000	On	N	19.9	15.2	50.0	



ANNEX B: PERSONS INVOLVED IN THIS TESTING

Test Item	Test Software and Version	Software Vendor	Test operator
Conducted Emission	EMC32 V8.5.2	R&S	Guo Qian
Radiated Emission	EMC32 V9.01.00	R&S	Li Zongliang

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