



TEST REPORT

No. 25T04Z200103-004

for

Samsung Electronics Co., Ltd.

Multi-band GSM/WCDMA/LTE Mobile Phone with Bluetooth, WLAN

Model Name: SM-A075M/DS, SM-A075M

with

FCC ID: ZCASMA075M

Hardware Version: REV1.0

Software Version: A075M.001

Issued Date: 2025-06-06

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z200103-004	Rev.0	1 st edition	2025-06-06

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

CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT	4
1.4. PROJECT DATA.....	4
1.5. 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.....	7
4. REFERENCE DOCUMENTS	8
4.1. DOCUMENTS SUPPLIED BY APPLICANT	8
4.2. REFERENCE DOCUMENTS FOR TESTING	8
5. SUMMARY OF TEST RESULTS	9
6. TEST FACILITIES UTILIZED.....	10
7. MEASUREMENT UNCERTAINTY	11
ANNEX A: EUT PARAMETERS	12
ANNEX B: MEASUREMENT RESULTS.....	13
ANNEX C: PERSONS INVOLVED IN THIS TESTING.....	37

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2025-05-12

Testing End Date: 2025-05-30

1.5. Signature



Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Shi Suolan

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Samsung Electronics Co., Ltd.
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2.2. Manufacturer Information

Company Name: Samsung Electronics. Co., Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
City: /
Postal Code: /
Country: /
Contact Person: Kobe Cho
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Telephone: +82-10-2722-4159
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Multi-band GSM/WCDMA/LTE Mobile Phone with Bluetooth, WLAN
Model name	SM-A075M/DS, SM-A075M
FCC ID	ZCASMA075M

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*	IMEI/SN	HW Version	SW Version
EUT1	2504200103UT12a(SM-A075M/DS)	REV1.0	A075M.001
EUT2	2504200103UT13a(SM-A075M/DS)	REV1.0	A075M.001

*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*	Name	Model	Manufacturer
AE1	Battery	HQ-7160SD	SCUD(Fujian) Electronics Co., Ltd.
AE2*	Adapter	EP-TA800	SOLUM
AE3-1	Date Cable C-C	EP-DN980BWE	Cresyn
AE3-2	Date Cable C-C	EP-DN980BWE	Luxshare
AE4*	Date Cable C-A	EP-DR140AWE	Cresyn Electronics(Dongguan)co;Ltd.
AE5*	Headset	/	/
AE6*	PC	/	/
AE7*	SD card	/	/
AE8*	MHD	/	/

* The USB cables are shielded.

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

* AE2, AE4, AE5, AE6, AE7 and AE8 are not the AE for EUT, provided by the Lab for relevant tests.

3.4. EUT set-ups

Set-up

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT + AE2 + AE3-1/2 + AE5	Adapter+ headset
Set.2	EUT + AE2 + AE3-1/2 + AE5	Adapter
Set.3	EUT + AE3-1/2 + EUT + AE5	EUT+EUT
Set.4	EUT + AE3-1/2 + MHD+ AE5	EUT+MHD
Set.5	EUT + AE3-1/2 + PC+ AE5	Type C communication with PC
Set.6	EUT + AE4 + PC + SD+ AE5	USB communication with PC+SD

Test mode

Mode No.	Operating mode	Remarks
mode.1	MP4 Play	RE, CE
mode.2	Front Camera	RE, CE
mode.3	Rear Camera	RE, CE
mode.4	OTG Phone to Phone	RE only
mode.5	OTG + Mobile HD+MP4	RE only
mode.6	USB DATA (TYPE C)	RE, CE
mode.7	USB DATA (USB, SD TO PC)	RE, CE
mode.8	FM mode	FM(Low/Mid/High channel)
mode.9	CXX RX mode	GSM850, WCDMA Band 5, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 17 and LTE Band 26 (Low/Mid/High channel)

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC 47 CFR 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
	BR	Re-use test data from basic model report.

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)

6. Test Facilities Utilized

Test Equipment

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURER	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2025-06-06	1 year
2	Test Receiver	ESCI7	100948	R&S	2025-12-10	1 year
3	LISN	ENV216	101459	R&S	2026-05-07	1 year
4	BiLog Antenna	VULB9163	01177	Schwarzbeck	2025-11-19	1 year
5	EMI Antenna	3117	00119021	ETS-Lindgren	2025-09-18	1 year
6	Vector Signal Generator	SMT06	831285/005	R&S	2026-01-19	1 Year
7	Universal Radio Communication Tester	CMW500	159408	R&S	2026-02-16	1 Year
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
10	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
11	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A
12	PC	T14S	PC-1RP0TY	Lenovo	N/A	N/A

Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V8.53.0	R&S
Conducted Emission	EMC32 V8.53.0	R&S

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	3.08dB(k=2)

Location 2: CTTL (BDA)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	5.73dB(k=2)
	1GHz-18GHz	5.58dB(k=2)
Conducted Emission	150kHz-30MHz	3.10dB(k=2)

ANNEX A: EUT parameters

Description	Multi-band GSM/WCDMA/LTE Mobile Phone with Bluetooth, WLAN	
Model name	SM-A075M/DS, SM-A075M (The only difference between SM-A075M/DS and SM-A075M is Dual SIM tray and Single SIM tray)	
Marketing name	/	
Brand name	SAMSUNG	
Cellular Bands	☒ GSM	Bands 850/900/1800/1900MHz
	☐ CDMA	/
	☒ WCDMA	Bands 1/2/4/5/8
	☒ LTE	Bands 1/2/3/4/5/7/8/12/13/17/26/28/38/40/41/66
	☐ 5G NR SA	/
	☐ 5G NR NSA	/
Unlicensed Radio	☒ Wi-Fi 2.4GHz	802.11b/g/n(20MHz)
	☒ Wi-Fi 5GHz	802.11a/n(20MHz,40MHz)/ac(20MHz,40MHz,80MHz)
	☒ Wi-Fi 5.8GHz	802.11a/n(20MHz,40MHz)/ac(20MHz,40MHz,80MHz)
	☒ Bluetooth	☒ EDR ☐ BLE4 ☒ BLE5
Other	☒ GNSS	☒ GPS ☐ BDS ☒ Galileo ☐ Glonass
	☒ FM ☒ MP3 ☒ MP4 ☒ Camera ☒ USB ☐ NFC	
	☒ External memory	

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA Band 5, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 17 and LTE Band 26.

For more EUT information please refers to the manufacturer's specifications or user's manual.

Disclaimer: The EUT information provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX B: MEASUREMENT RESULTS

B.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

B.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at distances of 3 meters (for 30MHz-1GHz) and 3 meters (for above 1GHz) 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 and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. The measurement antenna was placed at a distance of 3 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.

For the test setup photographs please see the test setup photos document.

B.1.2 EUT Operating Mode

The EUT is operating in the USB mode, charging mode, FM, MP3, MP4, CAMERA, OTG, SD and cellular RX 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 the Annex A, are investigated. Only the worst case emissions are reported.

The FM radio mode radiated testing was performed with the Low/Mid/High channel. Only the worst cases 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.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

B.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.

B.1.4 Test Condition

Voltage (V)	Frequency (Hz)
120	60

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

B.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.

Note: all the set-up and operating mode list in section 3.4 were tested, only the worst test data are showed in this section.

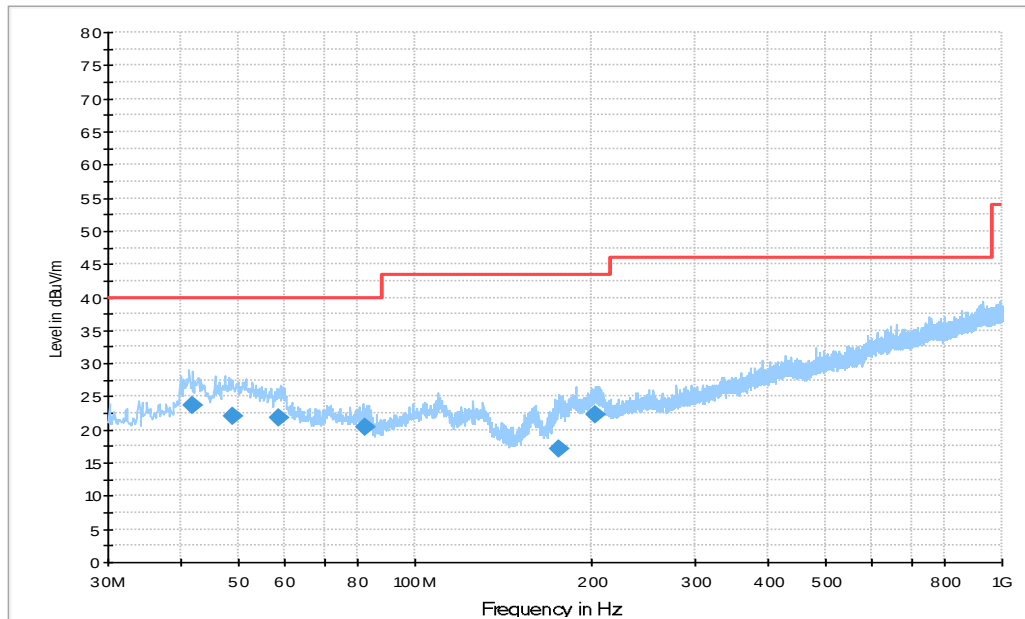


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
41.757000	23.7	113.0	V	16.0	-0.3	16.3	40.0
49.092000	22.1	125.0	V	90.0	0.5	17.9	40.0
58.806000	21.7	125.0	V	22.0	-0.6	18.3	40.0
82.049000	20.4	225.0	H	74.0	-6.0	19.6	40.0
175.38600	17.1	100.0	V	180.0	-3.2	26.4	43.5
203.29900	22.3	100.0	V	286.0	-1.2	21.2	43.5

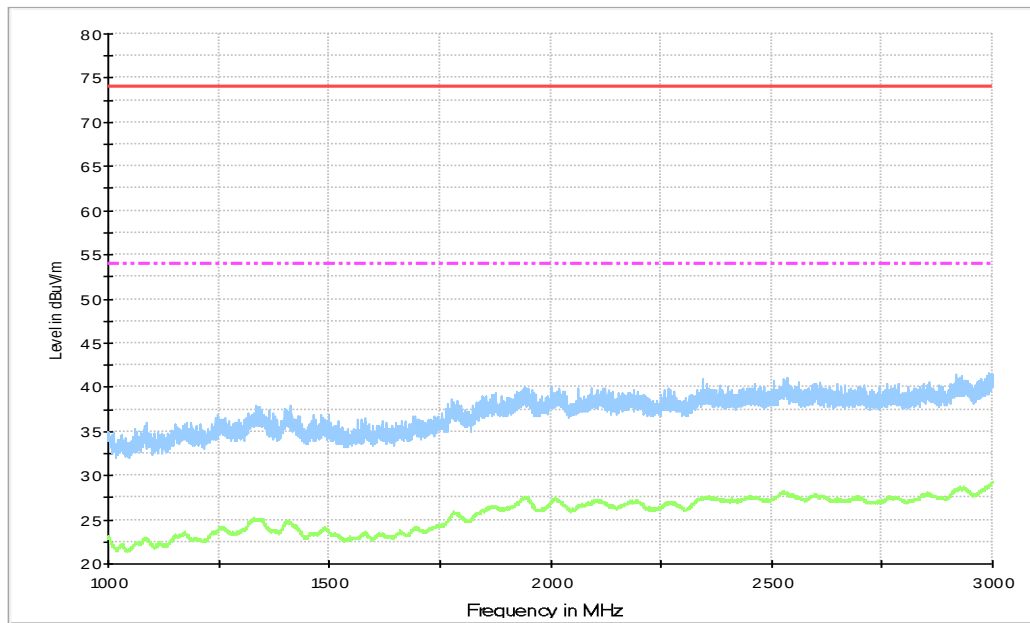


Figure A.2 Radiated Emission from 1GHz to 3GHz

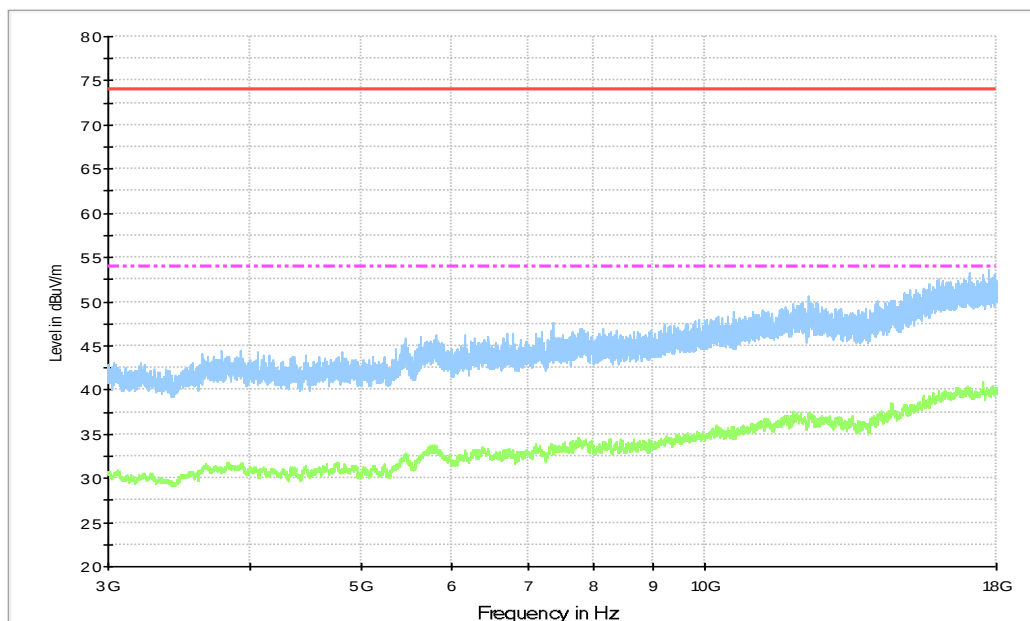


Figure A.3 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
17540.000	40.87	-20.63	40.76	20.74	54.00	13.13	V
17539.500	40.84	-20.67	40.76	20.76	54.00	13.16	H
17538.000	40.81	-20.82	40.76	20.87	54.00	13.19	H
17540.500	40.78	-20.67	40.76	20.68	54.00	13.22	V
17541.500	40.76	-20.75	40.76	20.76	54.00	13.24	H
17541.000	40.76	-20.71	40.76	20.71	54.00	13.24	H

Peak detector result

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)
17692.500	53.57	-21.68	40.51	34.73	74.00	20.43	V
17034.000	53.30	-22.56	41.07	34.79	74.00	20.70	V
17943.500	53.08	-21.22	40.54	33.76	74.00	20.92	H
17531.000	53.08	-21.52	40.77	33.83	74.00	20.92	V
17074.500	52.98	-22.21	41.03	34.17	74.00	21.02	H
17530.500	52.90	-21.57	40.77	33.69	74.00	21.10	H

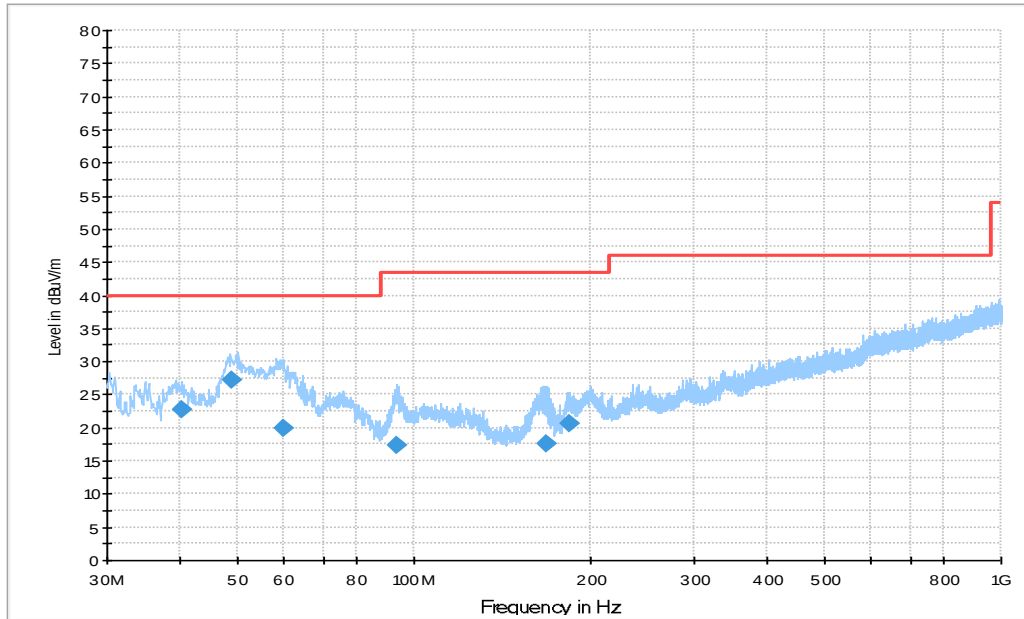


Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
40.108000	22.9	100.0	V	11.0	-0.6	17.1	40.0
48.801000	27.2	125.0	V	68.0	0.5	12.8	40.0
60.170000	19.9	100.0	V	184.0	-1.0	20.1	40.0
93.204000	17.4	100.0	V	177.0	-2.3	26.1	43.5
167.60300	17.5	100.0	V	164.0	-3.5	26.0	43.5
184.05600	20.7	100.0	V	0.0	-2.3	22.8	43.5

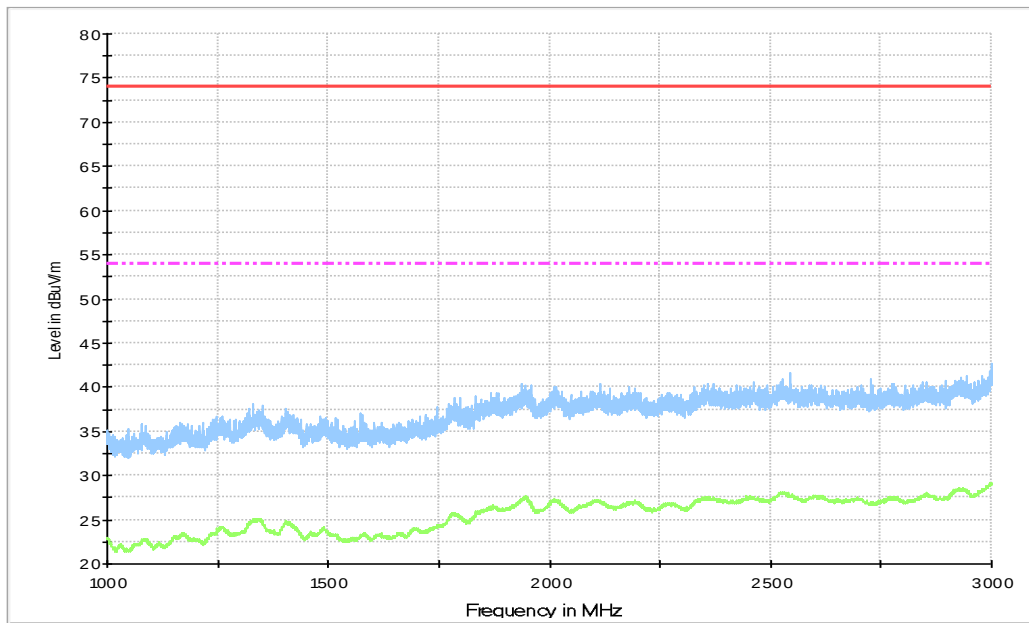


Figure A.5 Radiated Emission from 1GHz to 3GHz

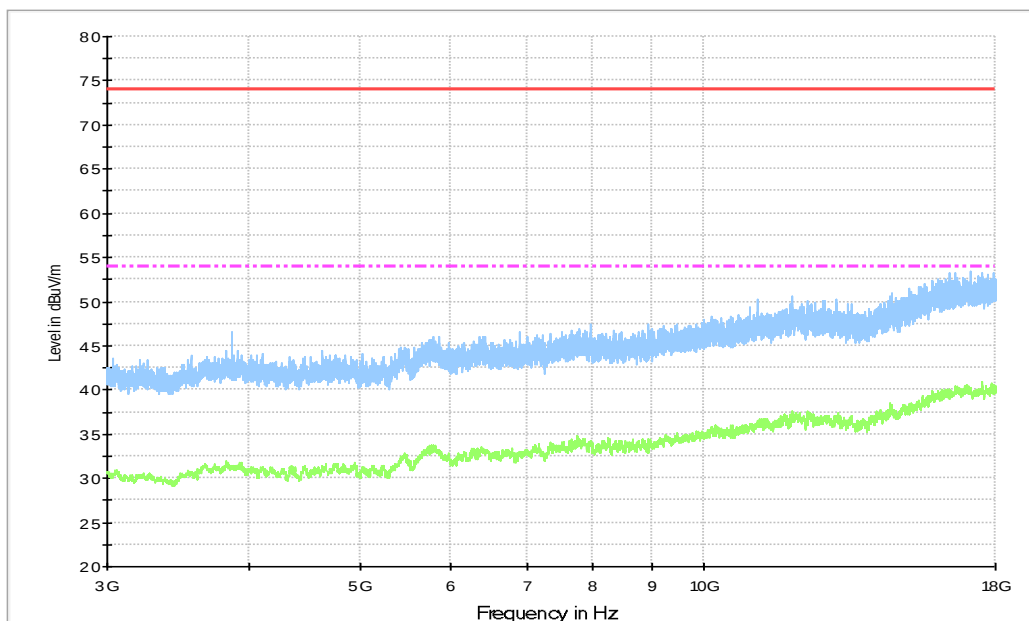


Figure A.6 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
17540.000	40.93	-20.63	40.76	20.80	54.00	13.07	V
17539.500	40.89	-20.67	40.76	20.81	54.00	13.11	H
17542.000	40.82	-20.79	40.76	20.86	54.00	13.18	H
17538.000	40.78	-20.82	40.76	20.84	54.00	13.22	V
17543.000	40.78	-20.88	40.76	20.90	54.00	13.22	H
17541.000	40.78	-20.71	40.76	20.73	54.00	13.22	H

Peak detector result

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)
17134.500	53.35	-22.20	40.97	34.58	74.00	20.65	V
16621.000	53.31	-22.47	41.32	34.46	74.00	20.69	V
17902.000	53.30	-21.15	40.50	33.94	74.00	20.70	H
17539.000	53.28	-20.72	40.76	33.24	74.00	20.72	V
16431.000	53.24	-23.22	40.96	35.50	74.00	20.76	H
17726.500	53.00	-21.85	40.53	34.32	74.00	21.00	H

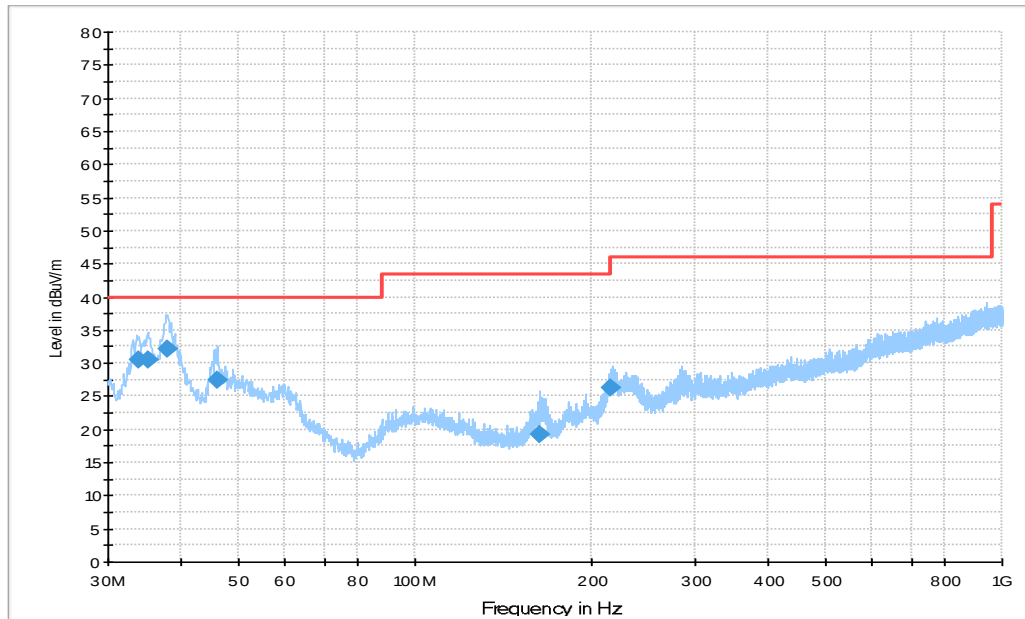


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
33.780000	30.4	100.0	V	68.0	-3.0	9.6	40.0
35.101000	30.4	100.0	V	-3.0	-2.5	9.6	40.0
37.854000	32.1	100.0	V	68.0	-1.5	7.9	40.0
46.002000	27.5	100.0	V	3.0	0.3	12.5	40.0
163.49200	19.2	100.0	V	202.0	-3.8	24.3	43.5
216.12600	26.2	125.0	H	267.0	-0.8	19.8	46.0

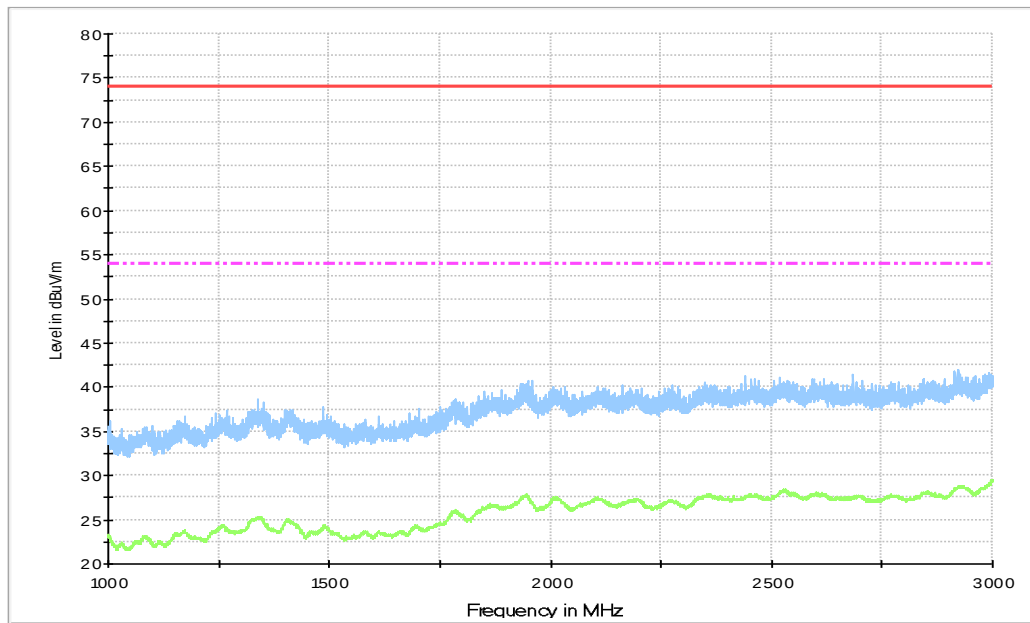


Figure A.8 Radiated Emission from 1GHz to 3GHz

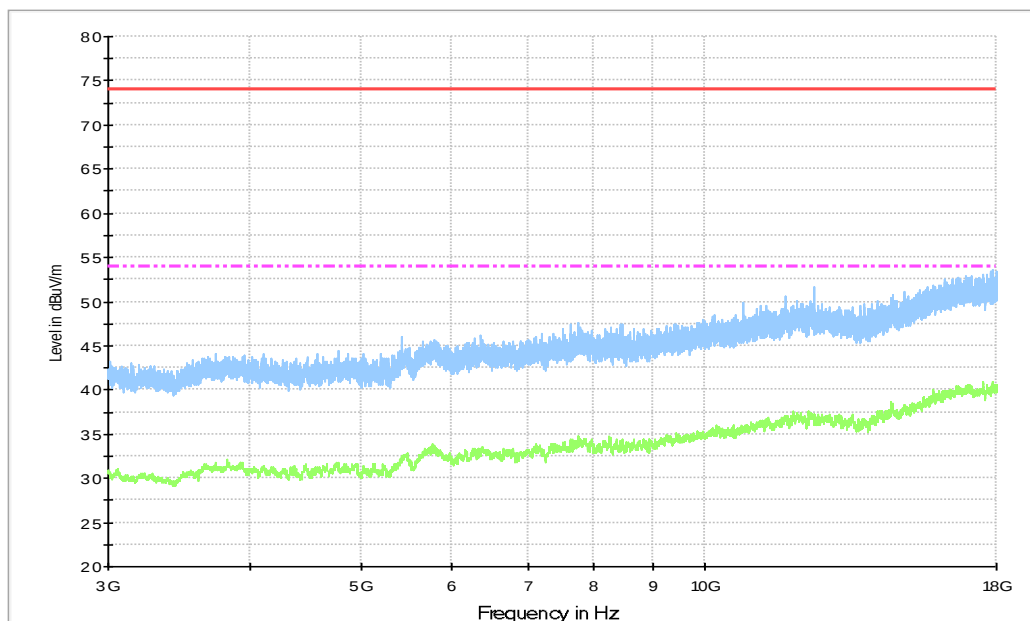


Figure A.9 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
17540.500	41.02	-20.67	40.76	20.93	54.00	12.98	V
17540.000	41.00	-20.63	40.76	20.87	54.00	13.00	H
17889.000	40.86	-20.98	40.51	21.33	54.00	13.14	H
17538.000	40.85	-20.82	40.76	20.91	54.00	13.15	V
17539.500	40.82	-20.67	40.76	20.73	54.00	13.18	H
17541.500	40.81	-20.75	40.76	20.80	54.00	13.19	H

Peak detector result

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)
17847.500	53.54	-21.25	40.55	34.24	74.00	20.46	V
17796.000	53.50	-21.36	40.60	34.27	74.00	20.50	V
17997.000	53.36	-21.19	40.60	33.95	74.00	20.64	H
17894.500	53.31	-21.06	40.51	33.87	74.00	20.69	V
17780.500	53.17	-21.34	40.58	33.93	74.00	20.83	H
17674.500	53.11	-21.24	40.55	33.80	74.00	20.89	H

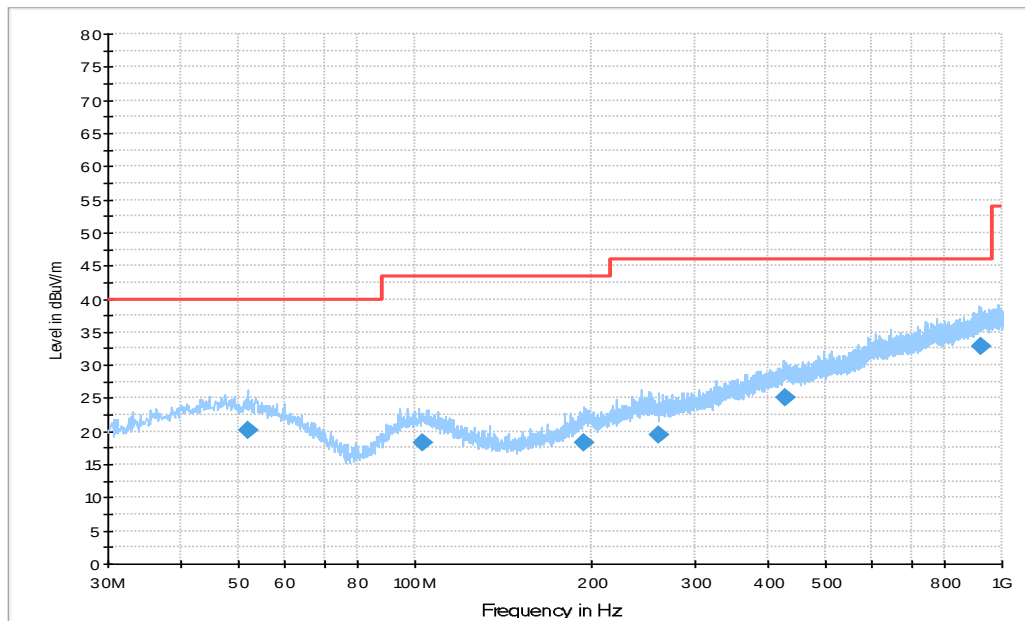


Figure A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
51.882000	20.2	100.0	H	176.0	0.3	19.8	40.0
103.12100	18.2	100.0	H	93.0	-1.1	25.3	43.5
194.31500	18.4	100.0	H	196.0	-0.6	25.1	43.5
260.00700	19.5	125.0	V	196.0	0.6	26.5	46.0
428.88400	25.1	125.0	H	22.0	6.3	20.9	46.0
920.09200	32.9	100.0	V	87.0	13.6	13.1	46.0

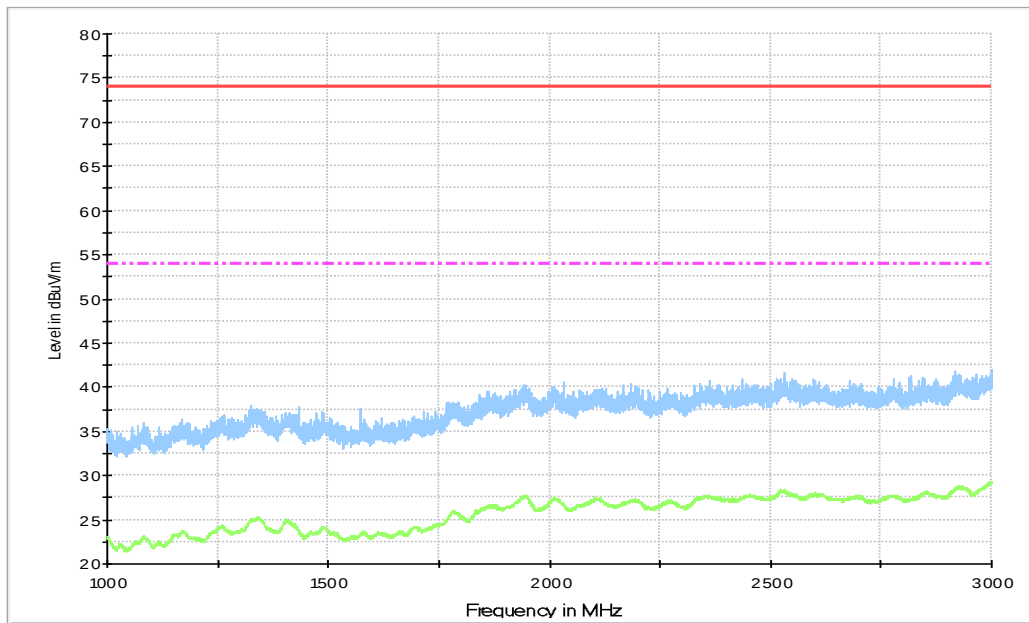


Figure A.11 Radiated Emission from 1GHz to 3GHz

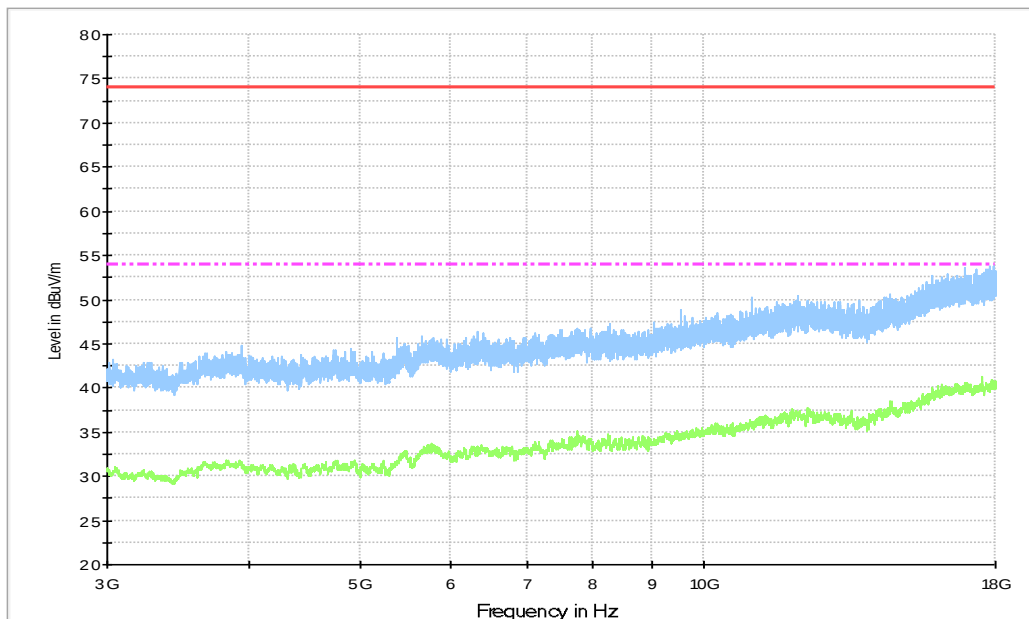


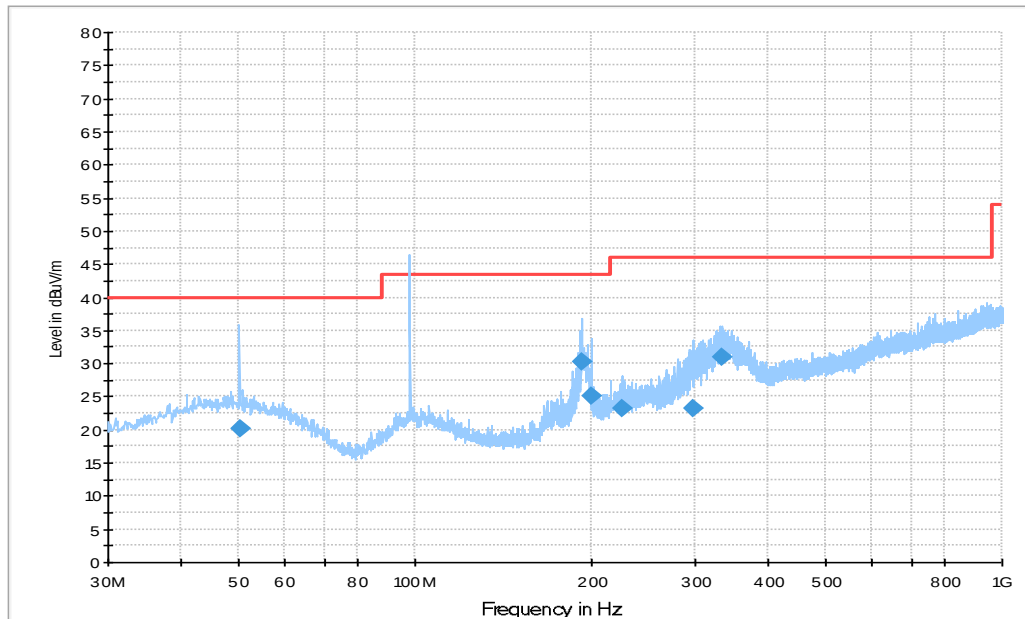
Figure A.12 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
17541.000	41.28	-20.71	40.76	21.23	54.00	12.72	V
17540.500	41.01	-20.67	40.76	20.91	54.00	12.99	H
17539.500	41.00	-20.67	40.76	20.91	54.00	13.00	H
17542.000	40.99	-20.79	40.76	21.02	54.00	13.01	V
17539.000	40.98	-20.72	40.76	20.94	54.00	13.02	H
17541.500	40.94	-20.75	40.76	20.93	54.00	13.06	H

Peak detector result

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)
17820.500	53.85	-21.50	40.58	34.76	74.00	20.15	V
17963.500	53.80	-21.00	40.56	34.23	74.00	20.20	V
16940.000	53.58	-22.38	41.28	34.68	74.00	20.42	H
17742.000	53.45	-21.68	40.54	34.59	74.00	20.55	V
17670.500	53.45	-21.26	40.56	34.15	74.00	20.55	H
17302.000	53.35	-22.14	40.80	34.69	74.00	20.65	H



Note: the spike at 98MHz is coming from FM signal source.

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
50.256000	20.2	113.0	V	-16.0	0.5	19.8	40.0
192.86000	30.2	100.0	H	286.0	-0.9	13.3	43.5
199.41900	25.2	100.0	H	273.0	-0.8	18.3	43.5
225.05000	23.2	125.0	H	112.0	-0.2	22.8	46.0
298.45600	23.2	100.0	H	180.0	1.5	22.8	46.0
333.41300	31.0	100.0	H	280.0	3.1	15.0	46.0

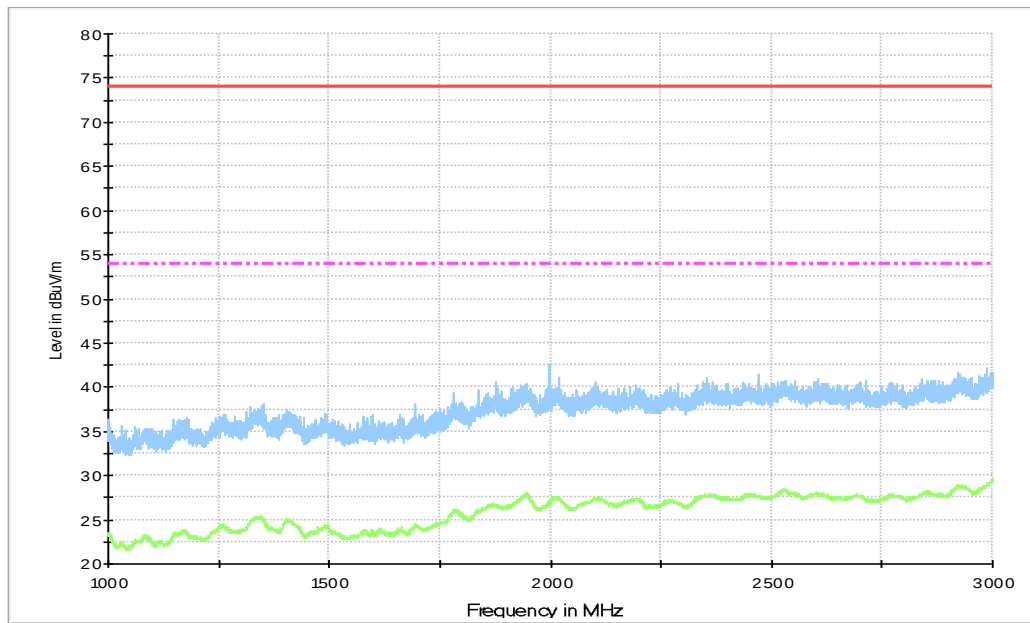


Figure A.14 Radiated Emission from 1GHz to 3GHz

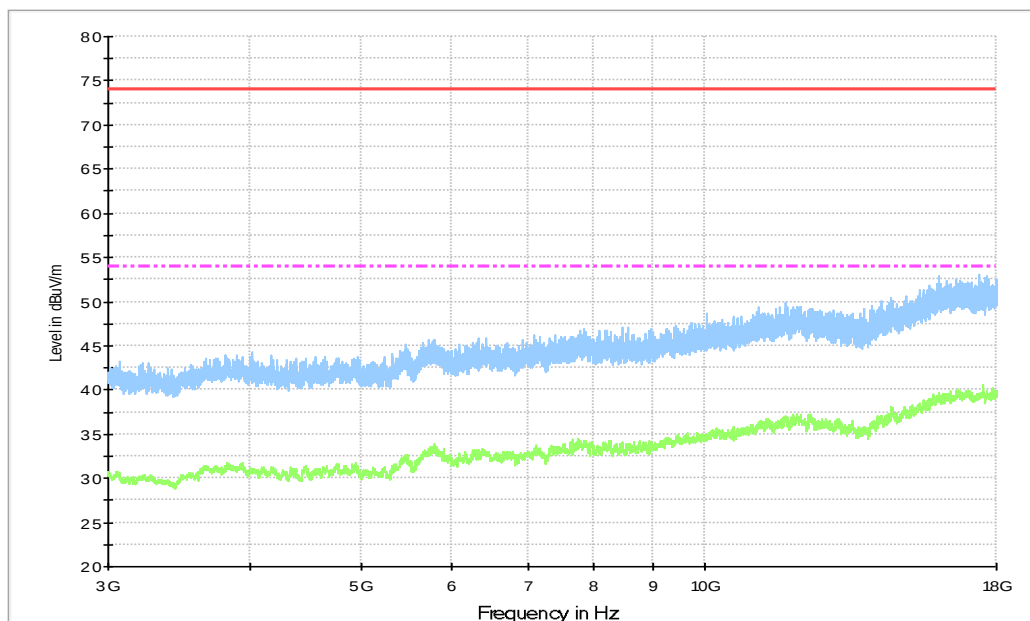


Figure A.15 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
17540.000	40.60	-20.63	40.76	20.47	54.00	13.40	V
17541.000	40.59	-20.71	40.76	20.54	54.00	13.41	H
17539.500	40.58	-20.67	40.76	20.50	54.00	13.42	H
17538.500	40.52	-20.77	40.76	20.53	54.00	13.48	V
17540.500	40.51	-20.67	40.76	20.42	54.00	13.49	H
17539.000	40.51	-20.72	40.76	20.47	54.00	13.49	H

Peak detector result

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)
17352.000	53.11	-21.87	40.75	34.23	74.00	20.89	V
17649.500	52.91	-21.35	40.60	33.66	74.00	21.09	V
16007.500	52.89	-23.49	40.82	35.56	74.00	21.11	H
17615.500	52.66	-22.25	40.67	34.24	74.00	21.34	V
17969.500	52.57	-21.06	40.57	33.06	74.00	21.43	H
17698.000	52.56	-21.84	40.50	33.90	74.00	21.44	H

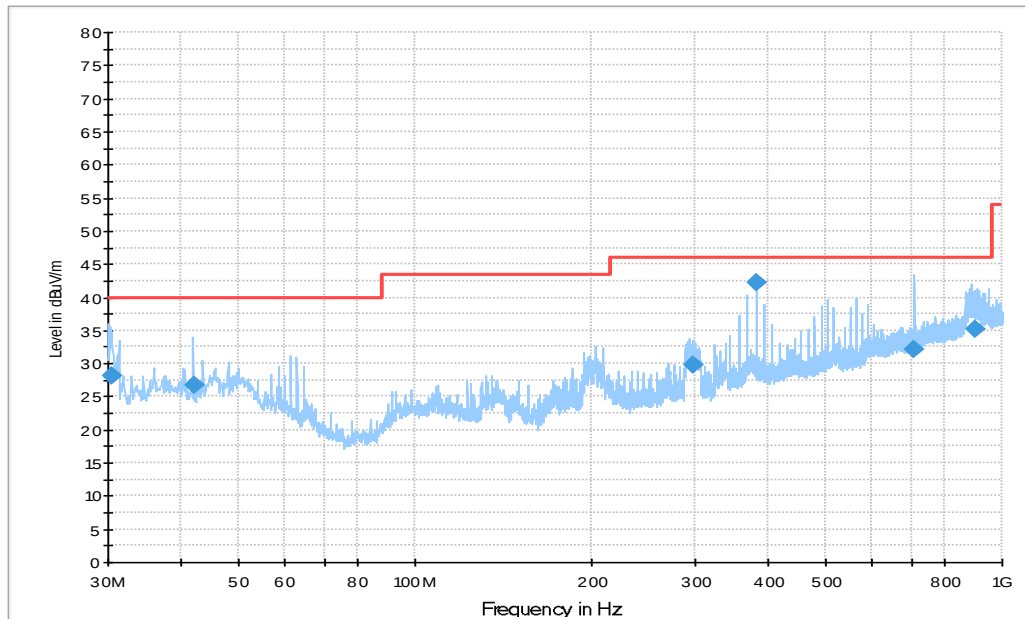


Figure A.16 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
30.391000	28.2	100.0	V	-3.0	-3.6	11.8	40.0
42.011000	26.7	100.0	V	248.0	-0.2	13.3	40.0
296.74700	29.8	100.0	H	0.0	1.4	16.2	46.0
380.90600	42.2	100.0	H	80.0	4.7	3.8	46.0
706.43800	32.1	100.0	H	190.0	10.6	13.9	46.0
898.63200	35.2	100.0	V	-3.0	13.2	10.8	46.0

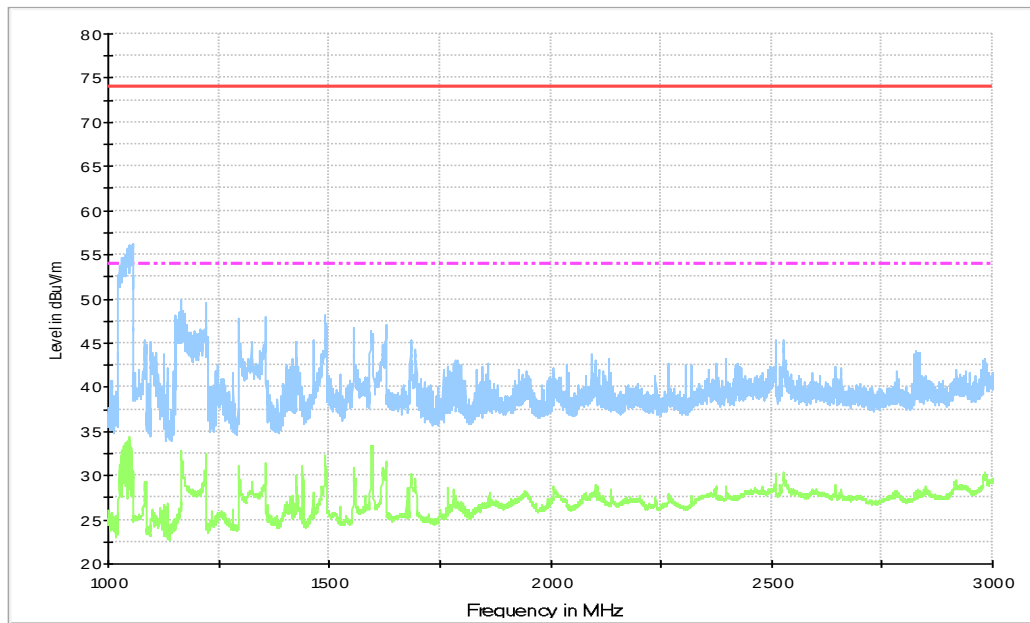


Figure A.17 Radiated Emission from 1GHz to 3GHz

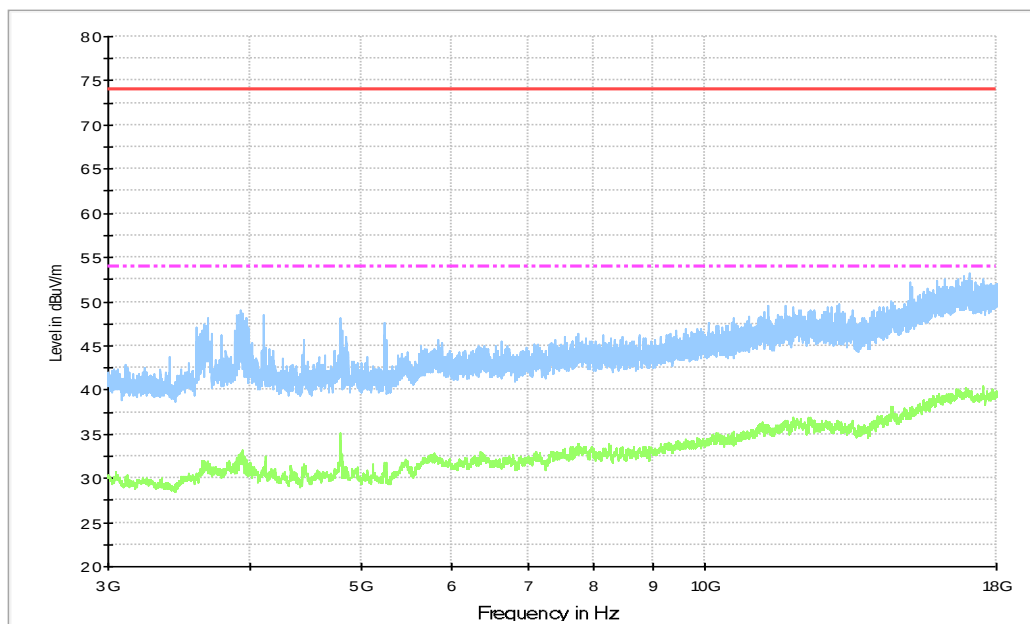


Figure A.18 Radiated Emission from 3GHz to 18GHz

Average detector result

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)
1045.800	34.47	-38.35	26.74	46.08	54.00	19.53	V
1166.000	32.79	-38.01	27.73	43.08	54.00	21.21	H
1594.200	33.40	-37.75	27.91	43.25	54.00	20.60	H
3928.000	32.98	-33.60	33.44	33.13	54.00	21.02	V
4785.500	35.14	-33.34	33.96	34.52	54.00	18.87	H
5725.500	32.45	-32.08	34.30	30.23	54.00	21.55	H

Peak detector result

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)
1054.600	56.26	-38.26	26.75	67.77	74.00	17.74	V
1165.800	49.88	-38.02	27.73	60.17	74.00	24.12	V
1492.000	48.01	-37.43	28.18	57.25	74.00	26.00	H
3662.500	48.18	-34.02	33.30	48.91	74.00	25.82	V
3915.000	48.97	-33.70	33.47	49.19	74.00	25.03	H
4786.500	48.10	-33.34	33.95	47.48	74.00	25.90	H

B.2 Conducted Emission**Reference**

FCC: CFR Part 15.107(a).

B.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.

For the test setup photographs please see the test setup photos document.

B.2.2 EUT Operating Mode

The EUT is operating in the USB mode, charging mode, FM, MP3, MP4, CAMERA, SD and cellular RX mode.

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.

B.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		

B.2.4 Test Condition in charging mode

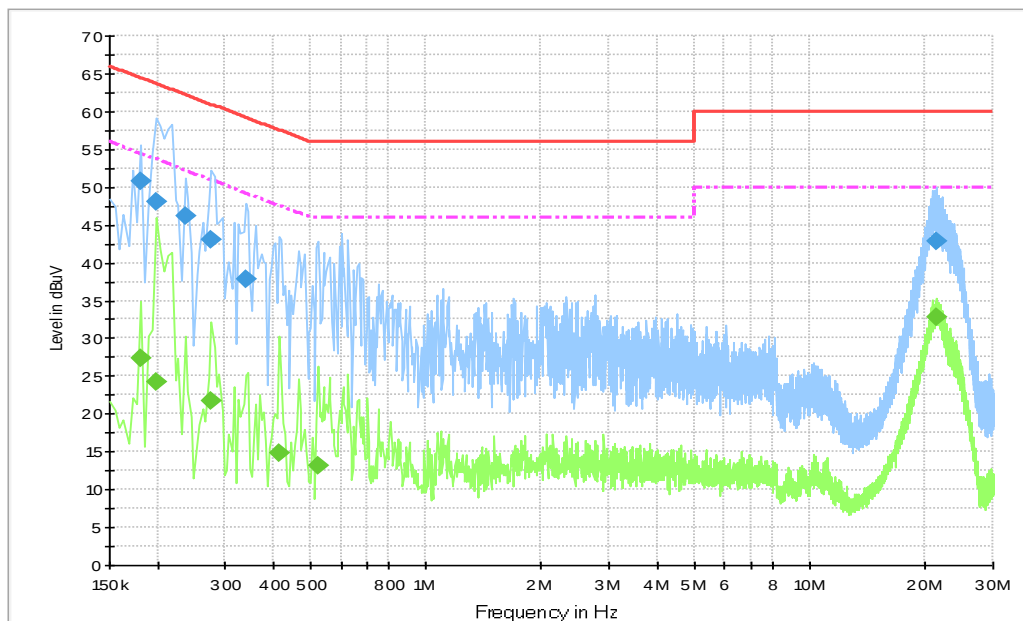
Voltage (V)	Frequency (Hz)
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

B.2.5 Measurement Results

Note: all the set-up and operating mode list in section 3.4 were tested, only the worst test data are showed in this section.

Set.1+Mode3



Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

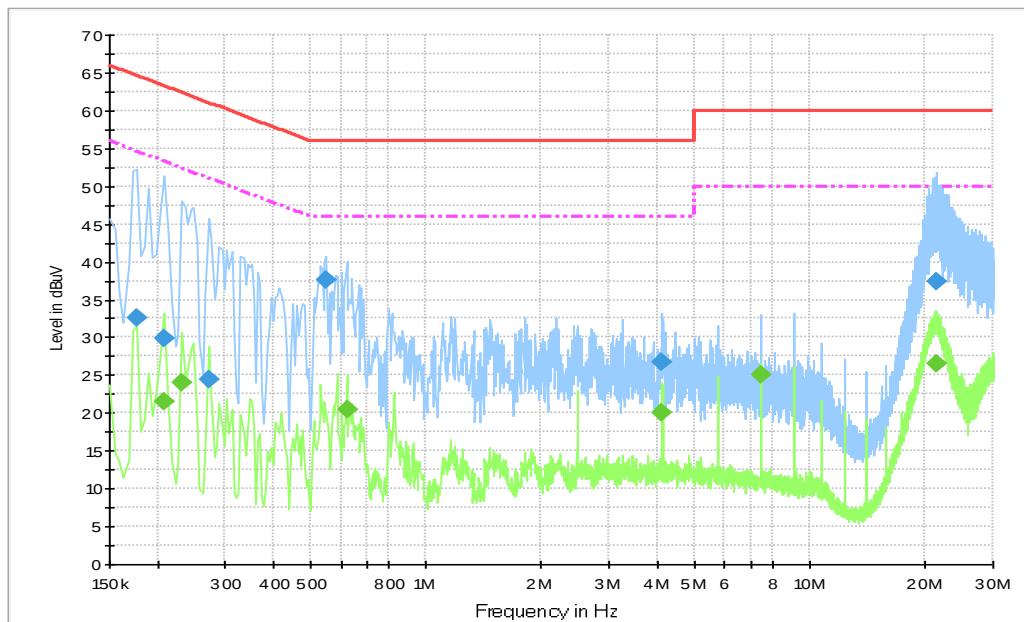
Figure A.19 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.181500	50.9	2000.0	9.000	N	20.0	13.5	64.4
0.199500	48.1	2000.0	9.000	L1	20.0	15.5	63.6
0.235500	46.1	2000.0	9.000	N	20.0	16.2	62.3
0.276000	43.1	2000.0	9.000	L1	20.0	17.9	60.9
0.339000	37.8	2000.0	9.000	L1	20.0	21.4	59.2
21.390000	42.7	2000.0	9.000	L1	20.1	17.3	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.181500	27.5	2000.0	9.000	N	20.0	27.0	54.4
0.199500	24.3	2000.0	9.000	L1	20.0	29.3	53.6
0.276000	21.8	2000.0	9.000	L1	20.0	29.2	50.9
0.415500	14.7	2000.0	9.000	L1	20.1	32.8	47.5
0.523500	13.2	2000.0	9.000	L1	20.1	32.8	46.0
21.246000	32.7	2000.0	9.000	L1	20.1	17.3	50.0



Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

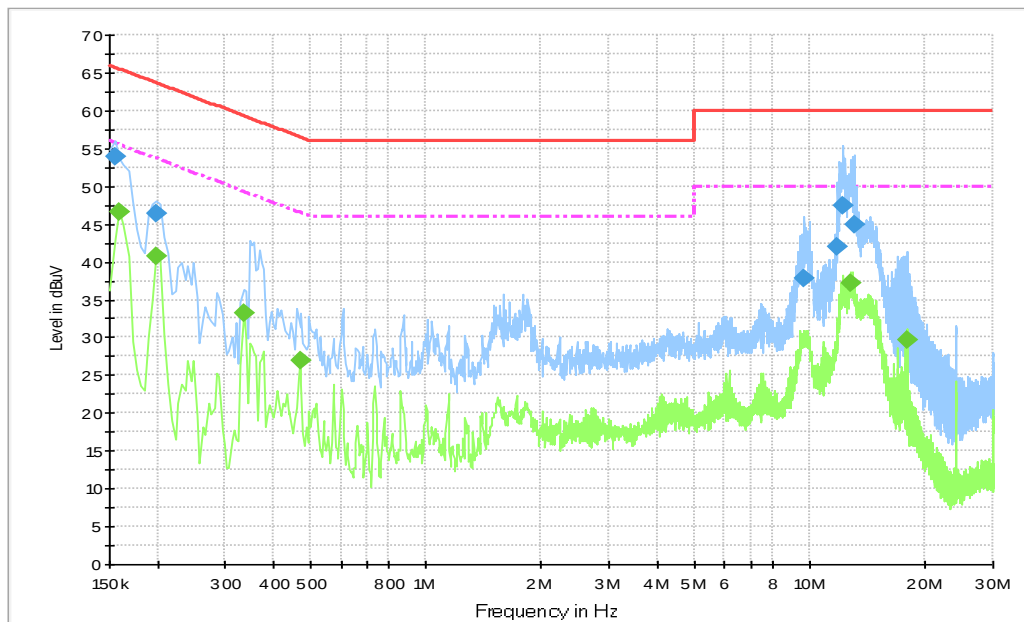
Figure A.20 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.177000	32.6	2000.0	9.000	L1	20.0	32.1	64.6
0.208500	30.0	2000.0	9.000	N	20.0	33.3	63.3
0.271500	24.5	2000.0	9.000	N	20.1	36.5	61.1
0.550500	37.6	2000.0	9.000	L1	20.1	18.4	56.0
4.128000	26.8	2000.0	9.000	L1	19.9	29.2	56.0
21.412500	37.5	2000.0	9.000	L1	20.1	22.5	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.208500	21.5	2000.0	9.000	N	20.0	31.8	53.3
0.231000	24.1	2000.0	9.000	L1	20.0	28.3	52.4
0.622500	20.4	2000.0	9.000	L1	20.0	25.6	46.0
4.128000	20.0	2000.0	9.000	L1	19.9	26.0	46.0
7.435500	25.2	2000.0	9.000	L1	19.9	24.8	50.0
21.322500	26.5	2000.0	9.000	L1	20.1	23.5	50.0



Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Figure A.21 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	53.8	2000.0	9.000	L1	20.1	11.9	65.8
0.199500	46.4	2000.0	9.000	L1	20.0	17.2	63.6
9.663000	37.9	2000.0	9.000	L1	19.9	22.2	60.0
11.836500	42.0	2000.0	9.000	L1	20.0	18.0	60.0
12.232500	47.3	2000.0	9.000	N	20.2	12.7	60.0
13.033500	45.0	2000.0	9.000	L1	20.0	15.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159000	46.5	2000.0	9.000	N	20.1	9.0	55.5
0.199500	40.7	2000.0	9.000	L1	20.0	12.9	53.6
0.334500	33.2	2000.0	9.000	L1	20.0	16.1	49.3
0.469500	27.0	2000.0	9.000	N	20.2	19.5	46.5
12.781500	37.1	2000.0	9.000	N	20.2	12.9	50.0
17.974500	29.6	2000.0	9.000	N	20.3	20.4	50.0



ANNEX C: Persons involved in this testing

Test Item	Tester
Radiated Emission	Sun Tianyuan
Conducted Emission	Guo Qian

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