The State Radio_monitoring_center Testing Center
国家无线电监测中心检测中心

Certificate Number: 5055.02

TEST REPORT

Report No.: SRTC2020-9003(F)-0074

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

Model Name: ZTE Blade A31

Applicant: ZTE CORPORATION

Manufacturer: ZTE CORPORATION

Specification: FCC Part15B (Certification) (2020 edition)

ANSI C63.4-2014

FCC ID: SRQ-ZTEA31

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District,

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1. General information

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District
Testing location：	No.80, Zhaojiachang, BeizangCun, Daxing District, Beijing, China.
City:	Beijing
Country or Region:	China
Contacted person:	Liu Jia
Tel:	+86 10 57996183
Fax:	+86 10 57996388
Email:	liujiaf@srtc.org.cn

1.3 Applicant’s details

Company:	ZTE CORPORATION
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Gong Yu
Tel:	+86-21-68895397
Email:	gongyu@zte.com.cn

1.4 Manufacturer’s details

Company:	ZTE CORPORATION
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Gong Yu
Tel:	+86-21-68895397
Email:	gongyu@zte.com.cn

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1.5 Application details

Date of reception of test sample: 18th Jan. 2021
Date of test: 18th Jan. 2021 to 27th Jan. 2021

1.6 Reference specification

FCC Part 15B, 2020 (Certification)

1.7 Information of EUT

1.7.1 General information

Product Name of EUT	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Model of EUT	ZTE Blade A31
FCC ID	SRQ-ZTEA31
Frequency Range	GSM Band2/Band8 WCDMA Band 2 / WCDMA Band 4 / WCDMA Band 5 LTE band 2/ LTE band 4 / LTE band 5 / LTE band 7/LTE band 26/ LTE band 66 Bluetooth: 2.4~2.4835GHz WiFi: 2.4~2.4835GHz
Power Supply	Charger/Battery
Nominal Voltage	3.8V
Extreme Temperature	Lowest: -10°C Highest: +55°C
Extreme Voltage	Minimum: 3.4V Maximum: 4.35V
HW Version	zf7A
SW Version	TEL_MX_ZTE_Blade_A31V1.0

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1.7.2 EUT details

No.	Product Name	Model Name	IMEI
EUT1	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone	ZTE Blade A31	864210050003599

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Charger

Manufacturer	SHENZHEN RUIJING INDUSTRIAL CO.LTD
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 2#: Charger

Manufacturer	Jiangxi Jian Aohai Technology Co.,Ltd
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 3#: Charger

Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 4#: Battery

Manufacturer	Guangdong Fenghua New Energy Co.,Ltd.
Model Number	Li3830T43P8h486375

AE (Auxiliary Equipment) 5#: USB cable

Manufacturer	Dongguan Guojun Plastic Electronic Co.,Ltd
Model Number	USB-MU5-B-70-M-L

AE (Auxiliary Equipment) 6#: USB cable

Manufacturer	Shenzhen Yihuaxing Electronic Co.,Ltd
Model Number	USB-MU5-B-70-M-L

AE (Auxiliary Equipment) 7#: Headset

Manufacturer	JUWEI ELECTRONICS CO.,LTD
Model Number	JWEP1091-Z01

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AE (Auxiliary Equipment) 8#: Headset

Manufacturer	ShenZhen FDC Electronic Co.,Ltd
Model Number	DEM-8A

Note1: This application has two Kinds of adapter. In this report, two kinds of adapters are tested.
Note2: In this report,there are three test modes. Mode 1 exercised by the EUT1 , charger AE1, the Battery AE4 ,the Usb cable AE5 and the Headset AE7,the mode 2 exercised by the EUT1 ,charger AE2, the Battery AE4 ,the Usb cable AE6 and the Headset AE8 while the mode 3 exercised by the EUT1 , charger AE3, the Battery AE4 ,the Usb cable AE5 and the Headset AE7.

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2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

Approved By: Liu Wei Director of the test department	Checked By:Guo Yu Vice director of the test department
Tested by: Mr. Lv Youyou Test engineer	Issued date: 2021.01.28

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2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
23.3°C	41.2%	100.9kPa

Test Setup with charger:

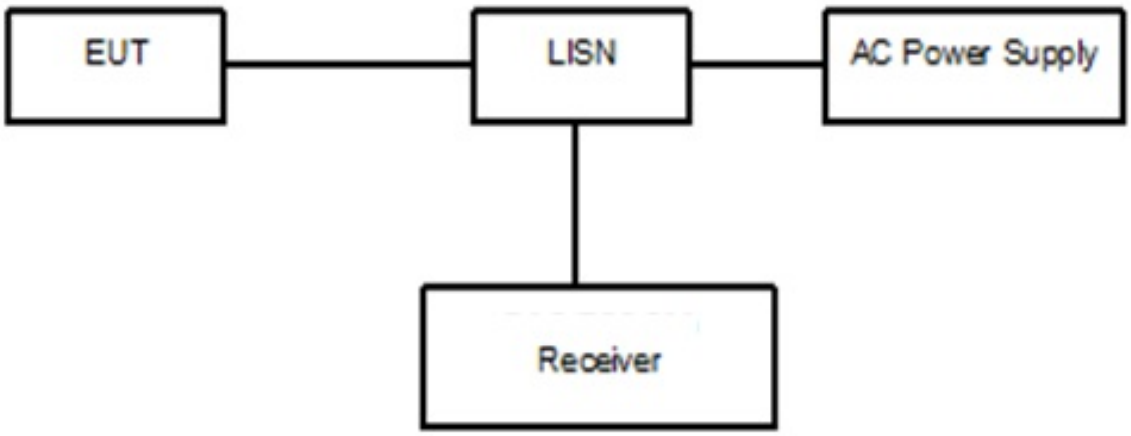

Figure 1

Test Procedure:

The EUT is placed on a non-matellic table 0.8m above the horizontal metal reference ground plane. The EUT is connected with LISN via the charger. The LISN is connected to the reference ground.
The test set-up and the test methods are performed according to ANSI C63.4:2014.
Then start the test software EMC32. Sweep the whole frequency band through the range from 150 KHz to 30 MHz with RBW 9kHz, VBW 30kHz.The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.
The data of cable loss has been calibrated in full testing frequency range before the testing.

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Test Setup with laptop:

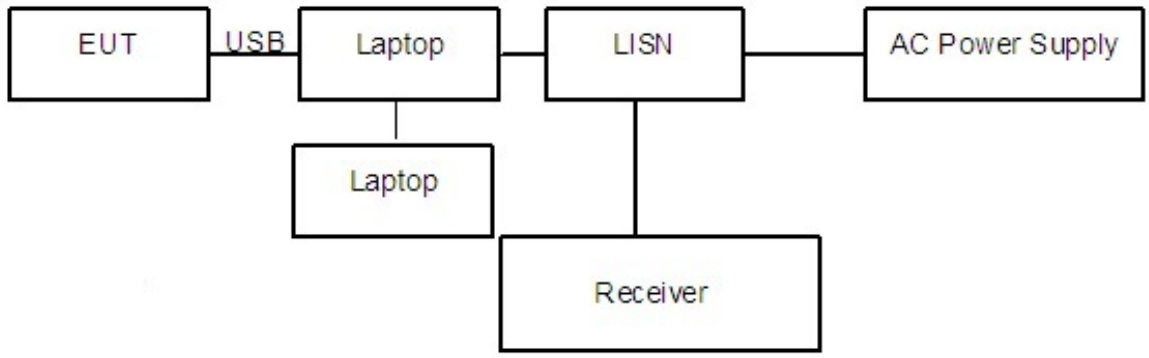

Figure 2

Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The accessories of the EUT are connected with the EUT such as headset etc. The EUT was connected with a laptop via the USB cable and was charged. The laptop's LAN port is connected with another laptop via cable. And the data transferring between two laptops is maintained.
The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. The test set-up and the test methods are performed according to ANSI C63.4:2014.
Then start the test software EMC32. Sweep the whole frequency band through the range from 150 KHz to 30 MHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.
The data of cable loss has been calibrated in full testing frequency range before the testing.

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A “reference path loss” Corr.(dB) is established and the L_{cable}+ATT+VDF is the attenuation of ”reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.
The measurement results are obtained as described below:
$P_{result}=P_{mea}$+Corr.(dB)
Sample calculation: (30.04dBμV) = (0.34 dBμV) + (29.7 dB), the corresponding frequency is 0.158529MHz.

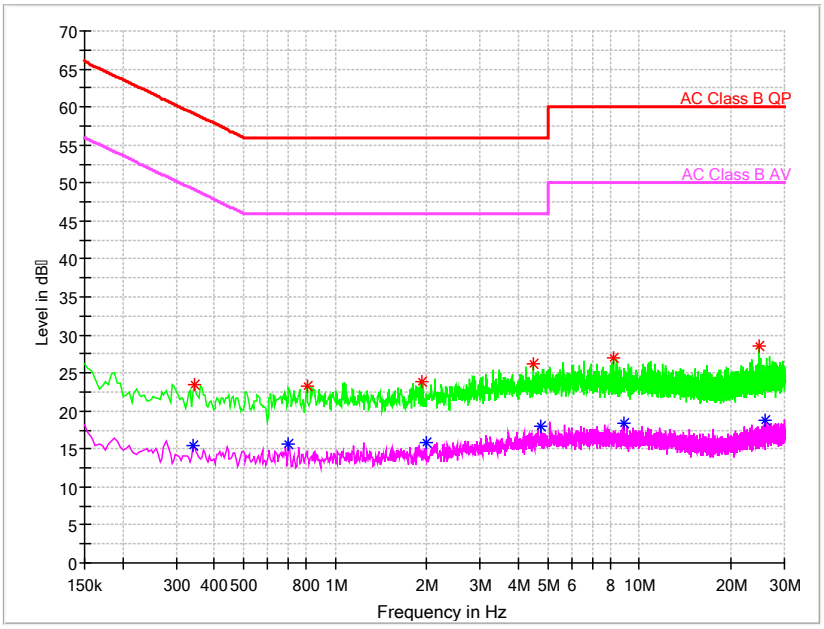
Limit:

Frequency of Emission(MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15～0.5	66 to 56*	56 to 46*
0.5～5	56	46
5～30	60	50

Note: * Decreases with the logarithm of the frequency

Test result:

Noise Level of the Measuring Instrument



Pic1.Conducted emission L and N Line

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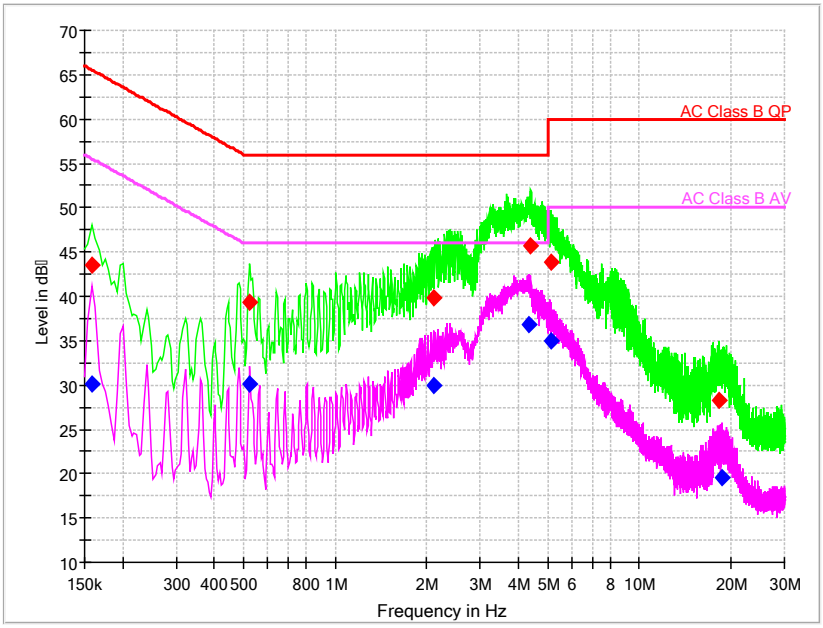
EUT1+ charger1:



Pic2. Conducted emission L&N Line Voltage：120VAC

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.158529	---	30.04	55.54	25.50	L1	29.7	---	0.34
0.158529	43.48	---	65.54	22.06	L1	29.7	13.7	---
0.525257	---	30.19	46.00	15.81	L1	29.7	---	0.49
0.525257	39.34	---	56.00	16.66	L1	29.7	9.64	---
2.098779	---	29.89	46.00	16.11	L1	29.8	---	0.09
2.098779	39.76	---	56.00	16.24	L1	29.8	9.96	---
4.337529	---	36.86	46.00	9.14	L1	29.8	---	7.06
4.405757	45.65	---	56.00	10.35	L1	29.8	15.8	---
5.143479	43.78	---	60.00	16.22	L1	29.8	13.9	---
5.143479	---	35.05	50.00	14.95	L1	29.8	---	5.25
18.337179	28.22	---	60.00	31.78	L1	30.1	-1.88	---
18.605829	---	19.62	50.00	30.38	N	30.1	---	-10.4

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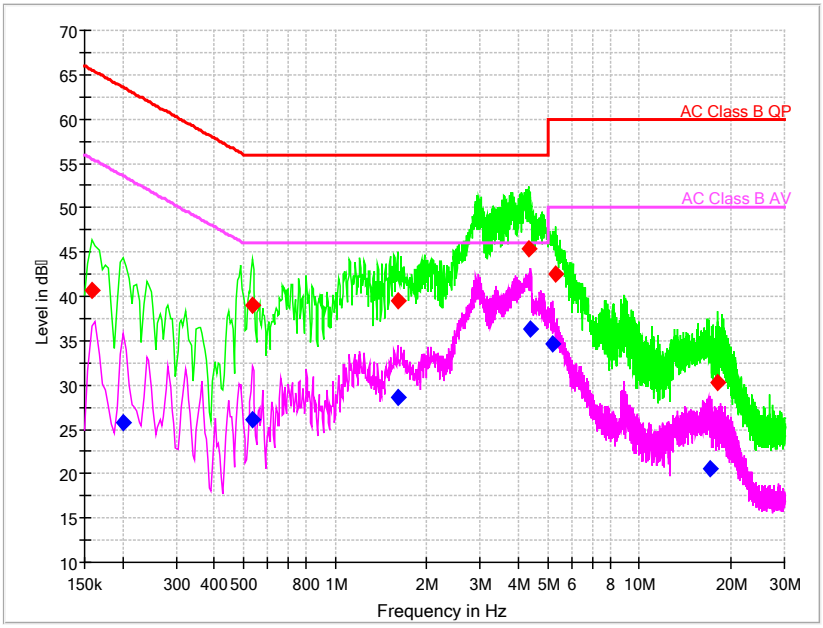
EUT1+ charger1:



Pic3. Conducted emission L&N Line Voltage：240VAC

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.158529	40.75	---	65.54	24.79	L1	29.7	11.0	---
0.201171	---	25.76	53.56	27.80	L1	29.7	---	-3.94
0.533786	---	26.03	46.00	19.97	L1	29.7	---	-3.67
0.533786	39.02	---	56.00	16.98	L1	29.7	9.32	---
1.604121	---	28.55	46.00	17.45	L1	29.8	---	-1.25
1.604121	39.47	---	56.00	16.53	L1	29.8	9.67	---
4.311943	45.34	---	56.00	10.66	L1	29.8	15.5	---
4.405757	---	36.36	46.00	9.64	N	29.8	---	6.56
5.186121	---	34.68	50.00	15.32	L1	29.8	---	4.88
5.309786	42.54	---	60.00	17.46	L1	29.8	12.7	---
17.092007	---	20.59	50.00	29.41	L1	30.1	---	-9.51
18.042943	30.20	---	60.00	29.80	N	30.1	0.1	---

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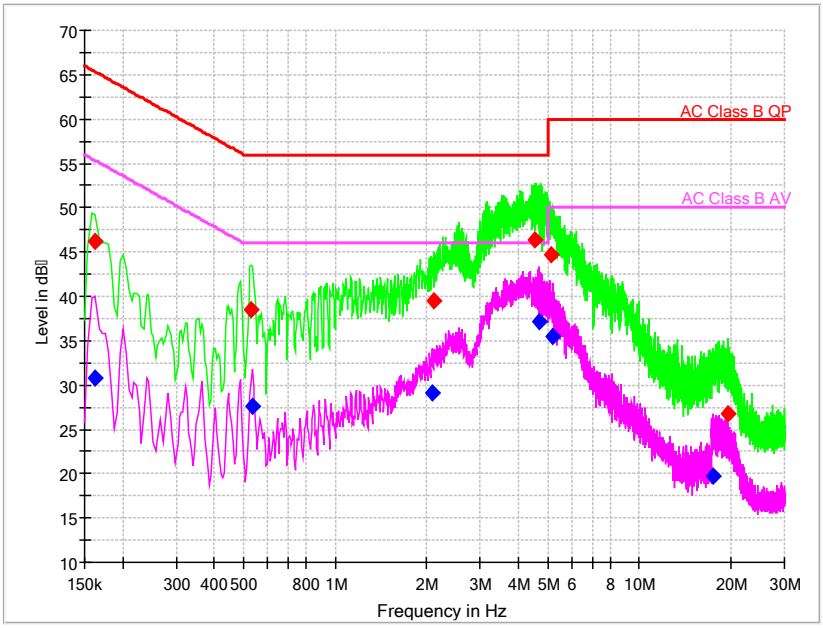
EUT1+ charger2:



Pic4. Conducted emission L&N Line Voltage：120VAC

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.162793	---	30.75	55.32	24.57	L1	29.7	---	1.05
0.162793	46.17	---	65.32	19.15	L1	29.7	16.4	---
0.529521	38.57	---	56.00	17.43	L1	29.7	8.87	---
0.533786	---	27.63	46.00	18.37	L1	29.7	---	-2.07
2.085986	---	29.04	46.00	16.96	L1	29.8	---	-0.76
2.111571	39.43	---	56.00	16.57	N	29.8	9.63	---
4.529421	46.33	---	56.00	9.67	L1	29.8	16.5	---
4.687200	---	37.12	46.00	8.88	L1	29.8	---	7.32
5.130686	44.62	---	60.00	15.38	L1	29.8	14.8	---
5.169064	---	35.52	50.00	14.48	L1	29.8	---	5.72
17.539757	---	19.76	50.00	30.24	L1	30.1	---	-10.3
19.518386	26.69	---	60.00	33.31	L1	30.2	-3.51	---

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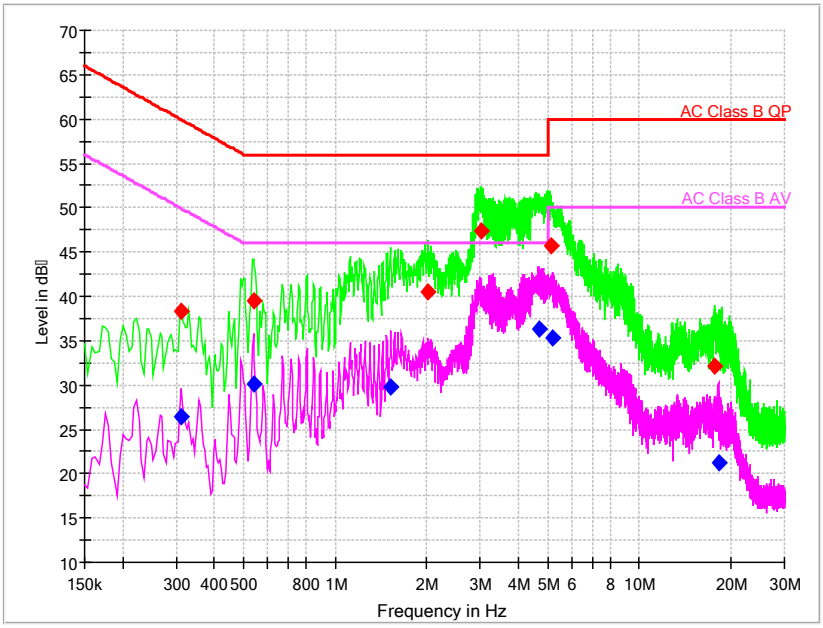
EUT1+ charger2:



Pic5. Conducted emission L&N Line Voltage：240VAC

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.312043	---	26.49	49.92	23.43	L1	29.7	---	-3.21
0.312043	38.29	---	59.92	21.63	L1	29.7	8.59	---
0.538050	---	30.09	46.00	15.91	L1	29.7	---	0.39
0.538050	39.54	---	56.00	16.46	L1	29.7	9.84	---
1.523100	---	29.70	46.00	16.30	L1	29.8	---	-0.1
2.017757	40.55	---	56.00	15.45	L1	29.8	10.7	---
3.007071	47.32	---	56.00	8.68	L1	29.8	17.5	---
4.704257	---	36.39	46.00	9.61	N	29.8	---	6.59
5.130686	45.63	---	60.00	14.37	L1	29.8	15.8	---
5.160536	---	35.39	50.00	14.61	L1	29.8	---	5.59
17.774293	32.18	---	60.00	27.82	L1	30.1	2.08	---
18.187929	---	21.23	50.00	28.77	N	30.1	---	-8.87

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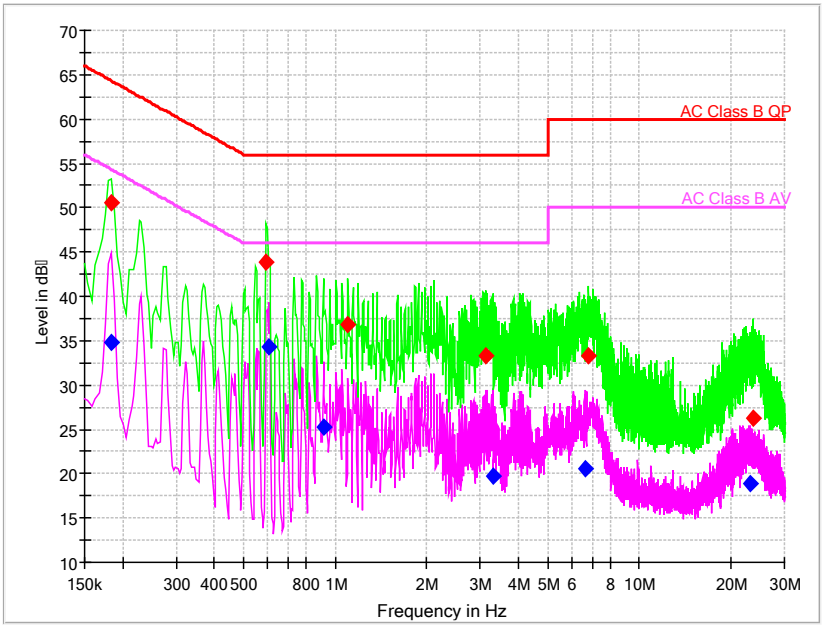
EUT1+ charger3:



Pic6. Conducted emission L&N Line Voltage：120VAC

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.184114	---	34.88	54.30	19.42	L1	29.7	---	5.18
0.184114	50.48	---	64.30	13.82	L1	29.7	20.7	---
0.593486	43.80	---	56.00	12.20	L1	29.7	14.1	---
0.606279	---	34.33	46.00	11.67	L1	29.7	---	4.63
0.917571	---	25.23	46.00	20.77	L1	29.8	---	-4.57
1.100936	36.89	---	56.00	19.11	L1	29.8	7.09	---
3.117943	33.28	---	56.00	22.72	L1	29.8	3.48	---
3.301307	---	19.72	46.00	26.28	N	29.8	---	-10.0
6.657300	---	20.54	50.00	29.46	L1	29.8	---	-9.26
6.827871	33.24	---	60.00	26.76	L1	29.9	3.34	---
23.198464	---	18.94	50.00	31.06	L1	30.4	---	-11.4
23.659007	26.31	---	60.00	33.69	L1	30.5	-4.19	---

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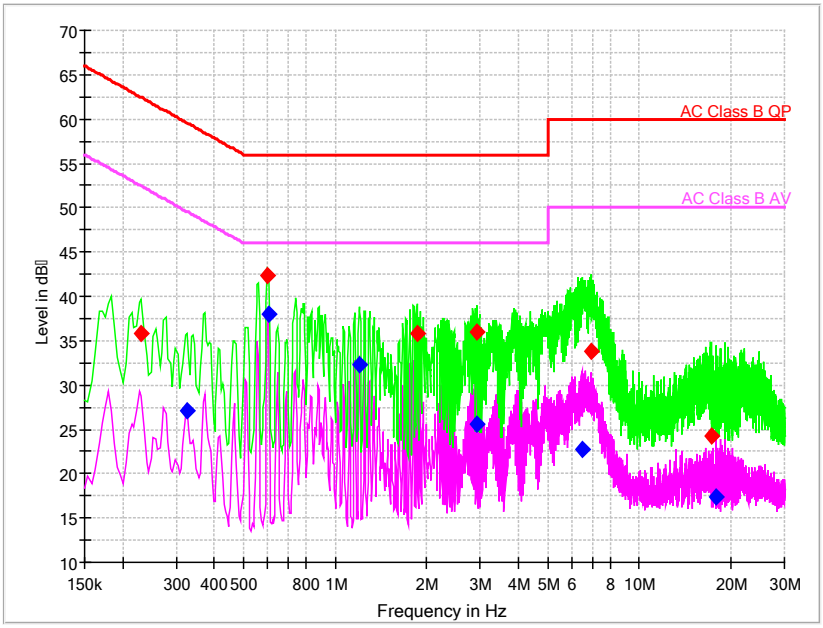
EUT1+ charger3:



Pic7. Conducted emission L&N Line Voltage：240VAC

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P_{mea} QuasiPeak	P_{mea} Average
0.231021	35.87	---	62.41	26.54	L1	29.7	6.17	---
0.324836	---	27.15	49.58	22.43	L1	29.7	---	-2.55
0.597750	42.36	---	56.00	13.64	L1	29.7	12.6	---
0.602014	---	37.95	46.00	8.05	L1	29.7	---	8.25
1.203279	---	32.25	46.00	13.75	L1	29.8	---	2.45
1.855714	35.88	---	56.00	20.12	L1	29.8	6.08	---
2.926050	35.96	---	56.00	20.04	L1	29.8	6.16	---
2.926050	---	25.61	46.00	20.39	L1	29.8	---	-4.19
6.461143	---	22.72	50.00	27.28	N	29.8	---	-7.08
6.977121	33.81	---	60.00	26.19	L1	29.9	3.91	---
17.194350	24.20	---	60.00	35.80	L1	30.1	-5.9	---
17.970450	---	17.30	50.00	32.70	N	30.1	---	-12.8

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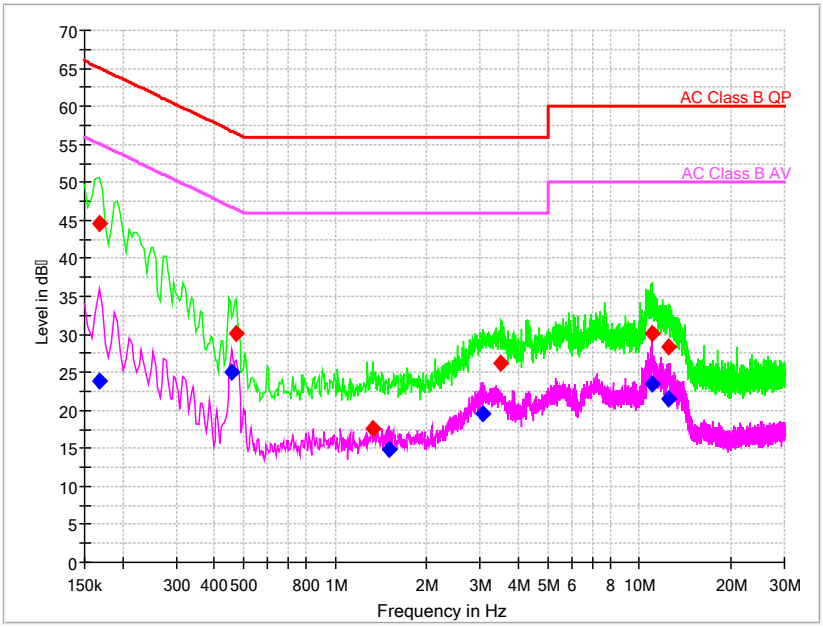
EUT1+Laptop:



Pic8. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak	Pmea Average
0.167057	---	23.90	55.11	31.21	L1	29.7	---	-5.8
0.167057	44.66	---	65.11	20.45	L1	29.7	14.96	---
0.457029	---	25.05	46.75	21.70	N	29.7	---	-4.65
0.474086	30.16	---	56.44	26.28	L1	29.7	0.46	---
1.326943	17.68	---	56.00	38.32	L1	29.8	-12.12	---
1.501779	---	14.92	46.00	31.08	N	29.8	---	-14.88
3.053979	---	19.58	46.00	26.42	L1	29.8	---	-10.22
3.518786	26.17	---	56.00	29.83	N	29.8	-3.63	---
10.968493	30.14	---	60.00	29.86	L1	29.9	0.24	---
11.011136	---	23.38	50.00	26.62	N	29.9	---	-6.52
12.533486	---	21.52	50.00	28.48	L1	30.0	---	-8.48
12.542014	28.33	---	60.00	31.67	L1	30.0	-1.67	---

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2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
22.9°C	40.8%	100.8kPa

Test Setup:

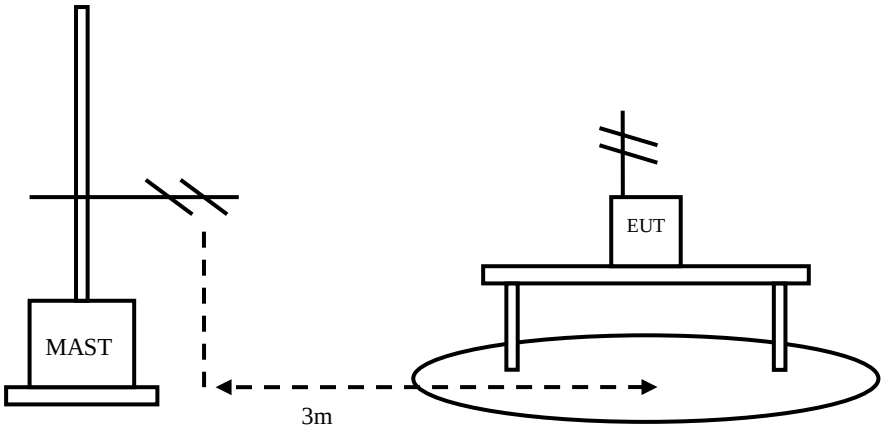

Figure 3

Test Procedure:

EUT+Charger:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The EUT should work in idle mode. The accessories of the EUT are connected with the EUT such as headset etc. Open the following functions of EUT: Camera, flash lamp, GPS and video. The test set-up and the test methods are performed according to ANSI C63.4:2014.

Then start the test software EMC32. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna VULB 9163.

During the test, the height of receive antenna shall be moved from 1 to4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.

The EUT is laid in two modes as follow: 1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.

The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing. All test results are performed with max hold at the horizontal and vertical polarity.

RBW=120kHz, VBW=300kHz, when the test frequency: 30MHz<f<1GHz

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RBW=1MHz, VBW=3MHz, when the test frequency: f>1GHz

EUT+Laptop:
The EUT should be placed on a non-metallic table80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.
The accessories of the EUT are connected with the EUT such as headset etc. The EUT was connected with a laptop via the USB cable and transferred the data by copying large files from laptop to the EUT. The test set-up and the test methods are performed according to ANSI C63.4:2014
Then start the test software EMC32. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna VULB 9163.
During the test, the height of receive antenna shall be moved from 1 to4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.
The EUT is laid in two modes as follow: 1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.
The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing.

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.
The measurement results are obtained as described below:
Result= $P_{mea} + A_{Rpl}$
Sample calculation: (39.11 dBμV/m) = (56.91dBμV) + (-17.8dB/m), the corresponding frequency is 42.872500MHz.

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dBμV/m)
30～88	Quasi-peak	40
88～216	Quasi-peak	43.5
216～960	Quasi-peak	46
960～1000	Quasi-peak	54
1000～5th harmonic of the highest frequency or 40GHz, whichever is lower	Average Peak	54 74

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Test result:

EUT1+Charger1:

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB/m)	P_{mea} (dBuV)	Polarity
42.872500	39.11	-17.8	56.91	V
96.171500	23.77	-19.4	43.17	V
132.232500	25.50	-21.5	47.00	V
203.892500	8.79	-18.2	26.99	V
532.138000	11.83	-8.4	20.23	V
945.044000	17.22	-0.9	18.12	V

EUT1+Charger2:

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB/m)	P_{mea} (dBuV)	Polarity
38.039500	33.95	-18.8	52.75	V
73.122000	17.66	-22.3	39.96	V
142.300000	21.42	-21.9	43.32	V
203.884000	9.97	-18.2	28.17	V
528.562500	11.59	-8.6	20.19	V
894.718000	16.92	-1.6	18.52	V

EUT1+Charger3:

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB/m)	P_{mea} (dBuV)	Polarity
32.367500	26.44	-20.5	46.94	V
73.233500	15.26	-22.4	37.66	V
98.424500	19.59	-18.9	38.49	V
251.117000	13.16	-16.3	29.46	V
543.649500	12.01	-8.1	20.11	V
943.300500	17.23	-0.9	18.13	V

EUT1+Laptop:

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB/m)	P_{mea} (dBuV)	Polarity
45.460000	8.94	-17.5	26.44	V
69.259000	22.32	-21.4	43.72	V
131.439500	18.55	-21.4	39.95	V
239.626000	27.41	-16.6	44.01	V
479.963000	33.98	-9.8	43.78	V
647.819000	25.29	-6.0	31.29	V

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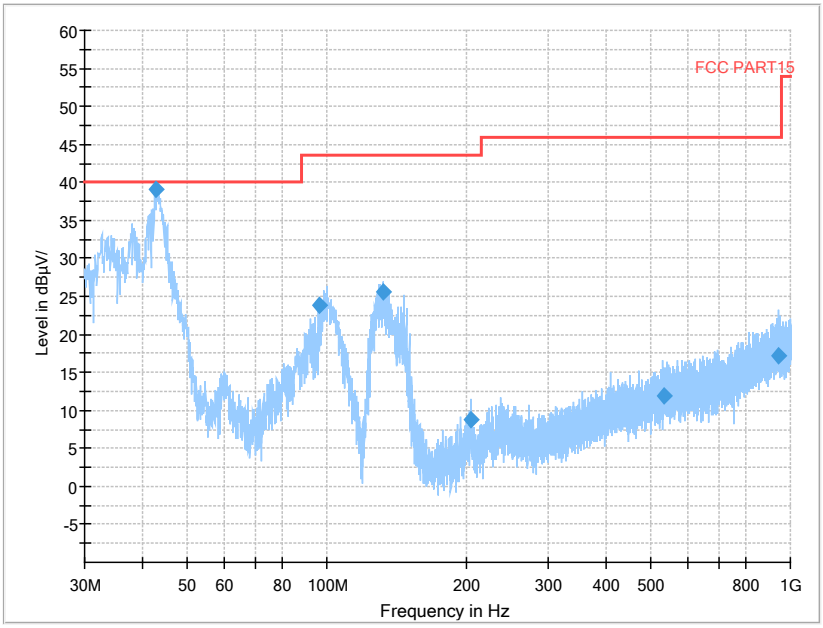
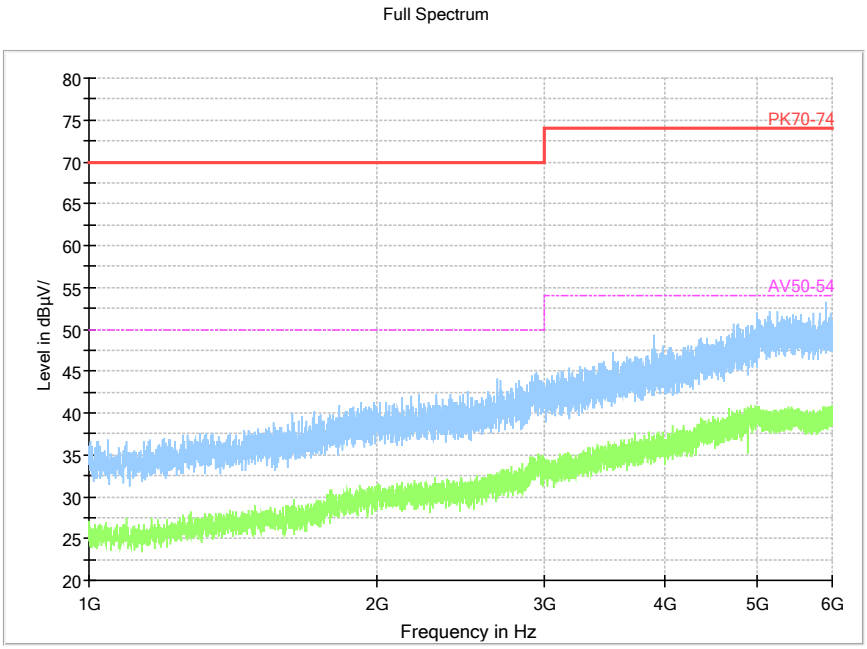
EUT1+ charger1: refer to Pic9, Pic10 and Pic11



Pic9. Radiated emission (30MHz – 1GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic10. Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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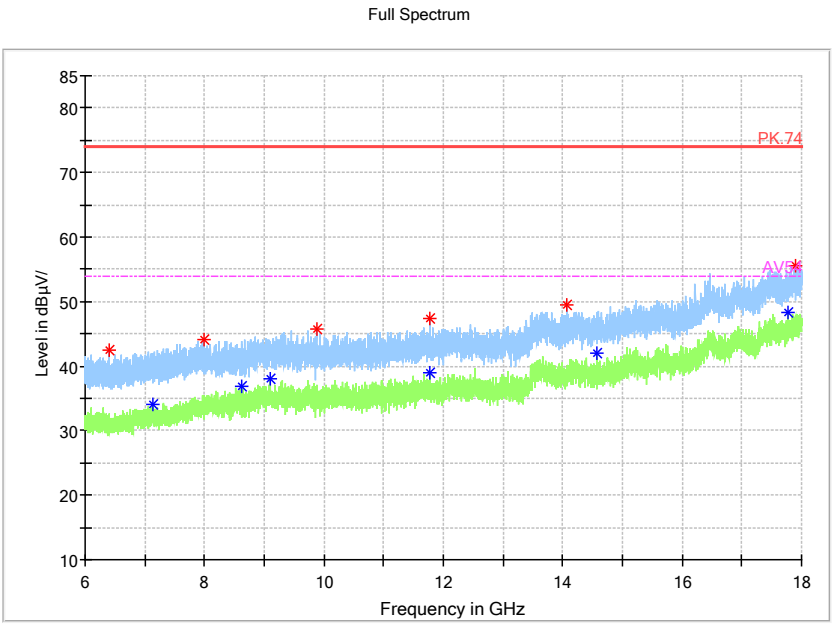
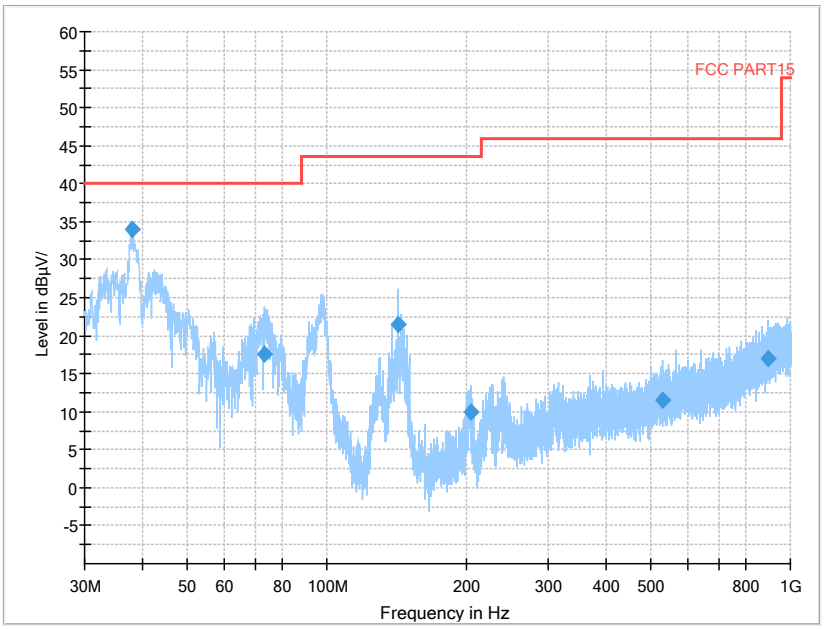


Pic11. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

EUT1+ charger2: refer to Pic12, Pic13 and Pic14



Pic12. Radiated emission (30MHz – 1GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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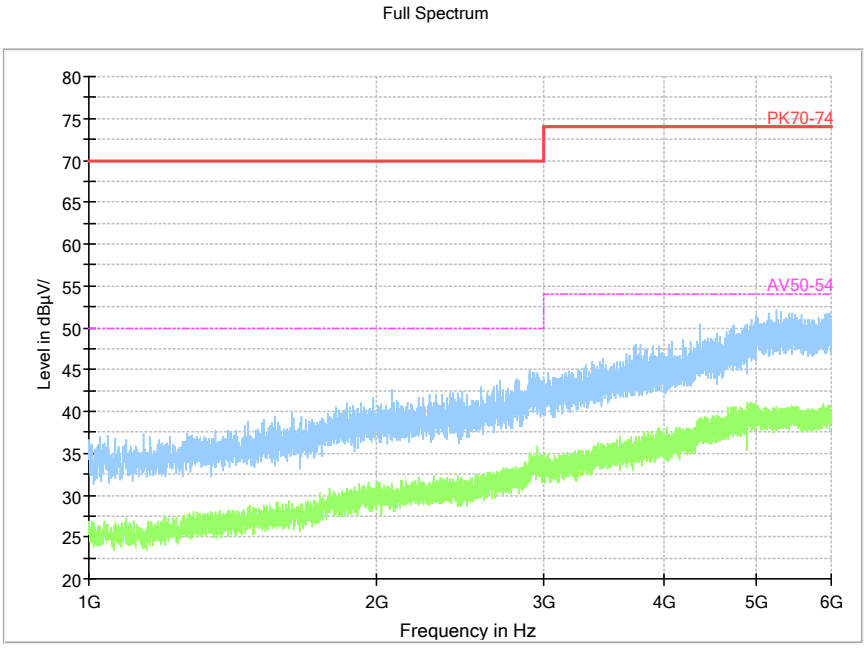
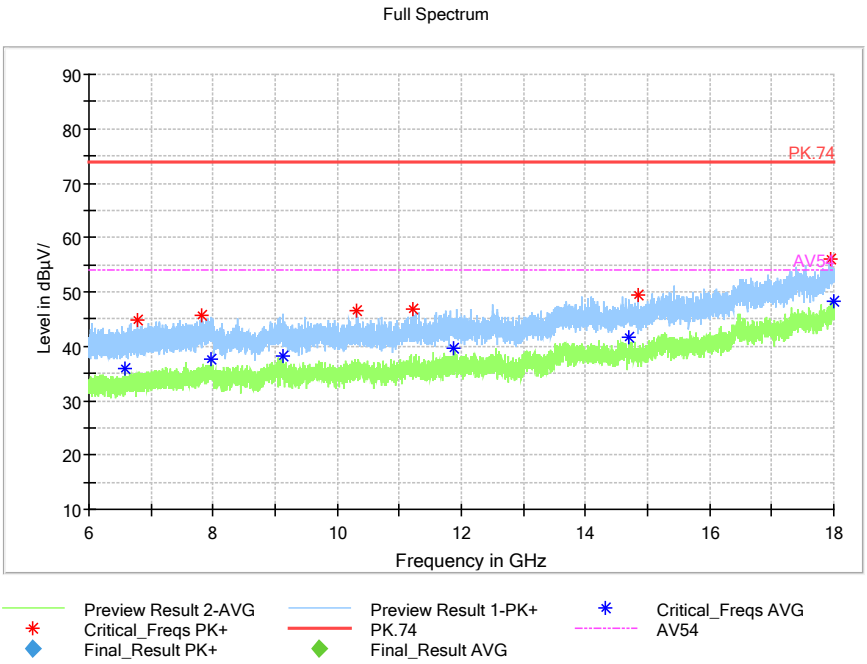


Pic13. Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic14. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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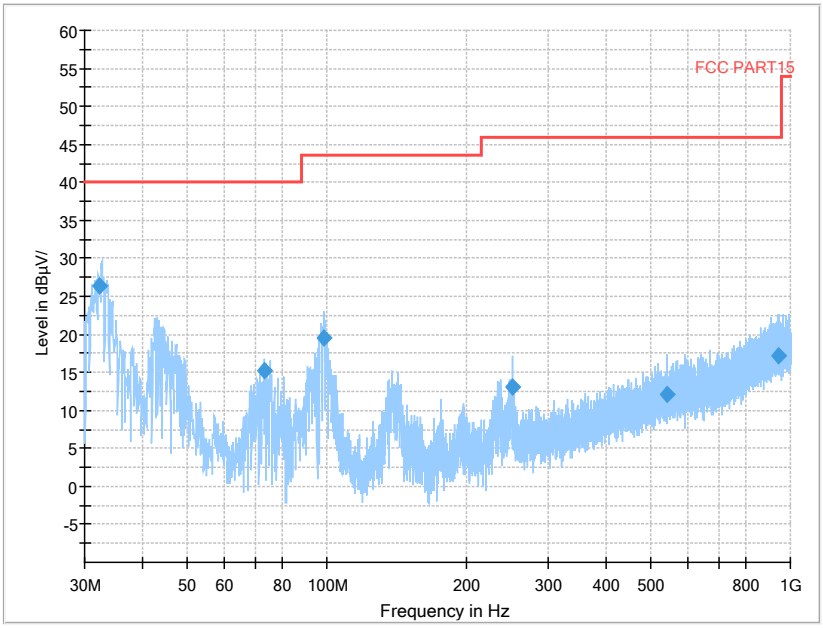
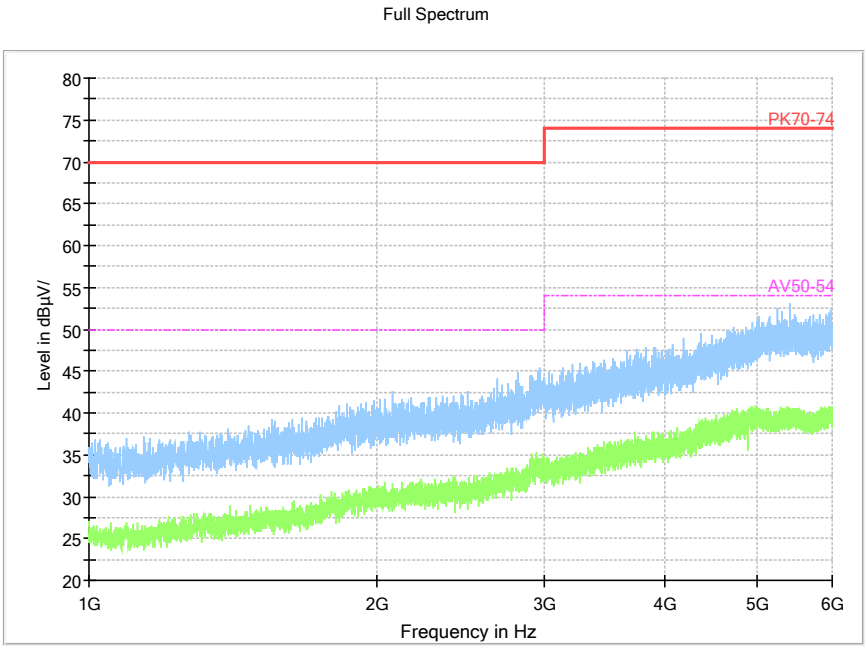
EUT1+ charger3: refer to Pic15,Pic16 and Pic17



Pic15. Radiated emission (30MHz – 1GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic16. Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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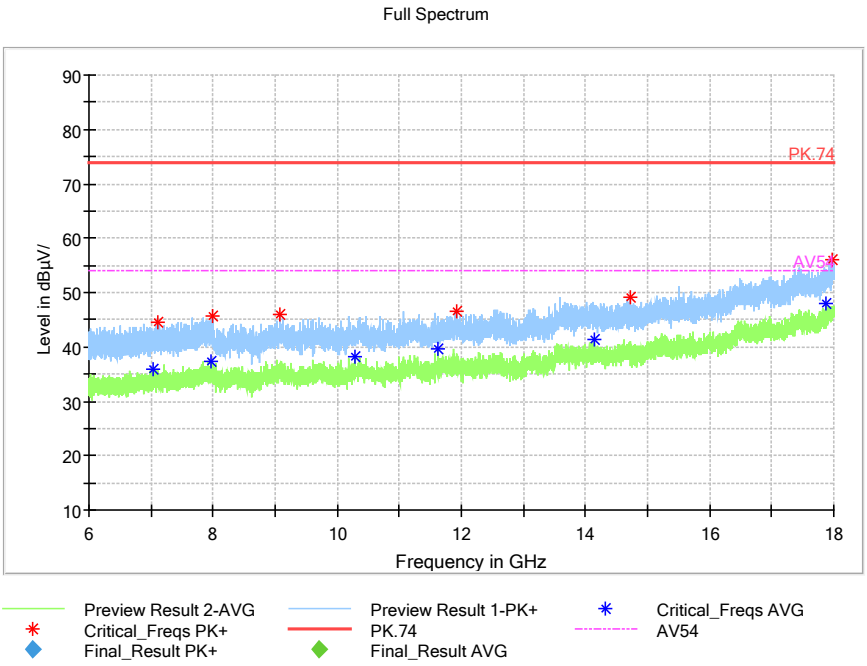
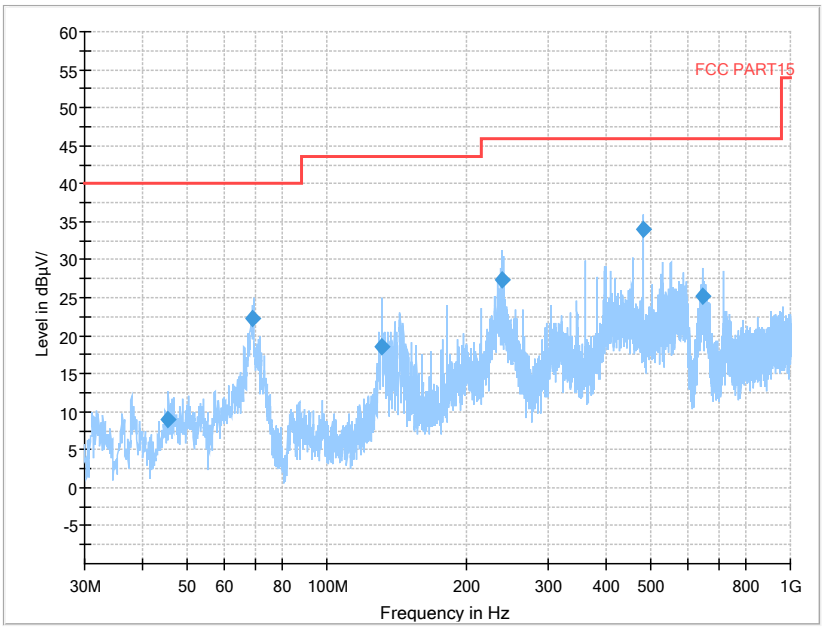


Pic17. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

EUT1+ Laptop: refer to Pic18, Pic19 and Pic20



Pic18. Radiated emission (30MHz – 1GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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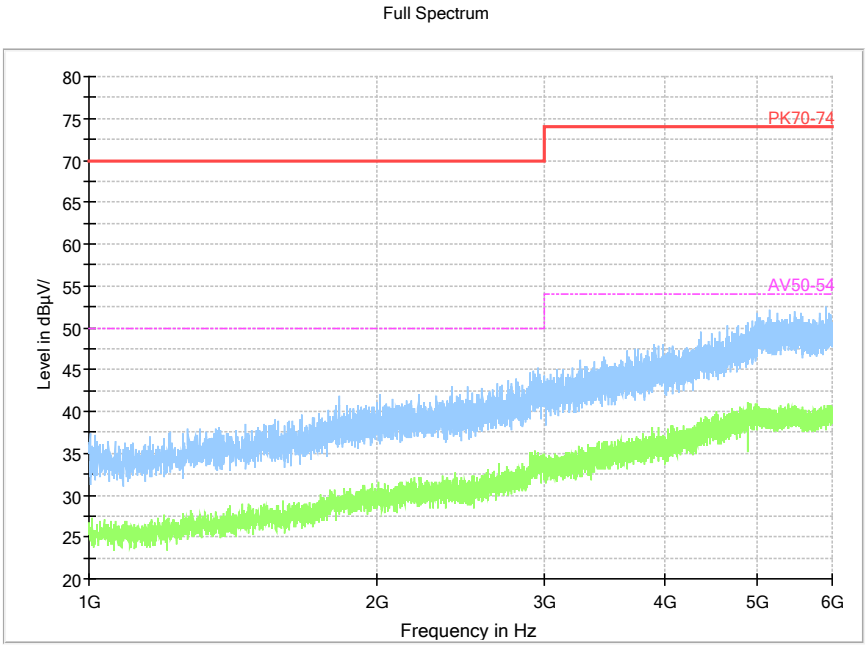
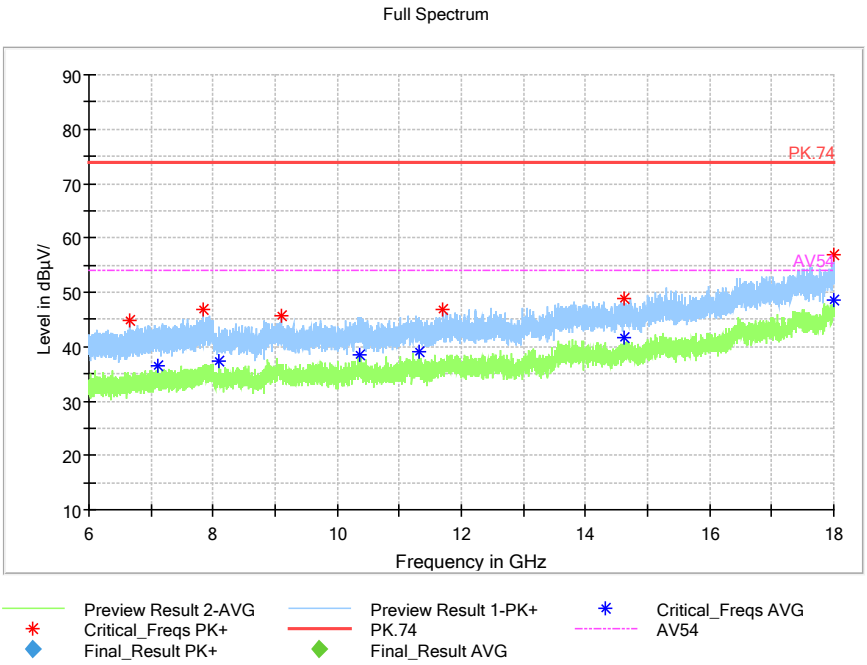


Pic19. Radiated emission (1GHz –6GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic20. Radiated emission (6GHz –18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical

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2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mSemi-AnechoicChamber	FRANKONIA	-----	5th Sep. 2021	6th Sep. 2016
2	ESW EMI test receiver	R&S	101574	20th Aug. 2021	20th Aug. 2020
3	ESR3 EMI test receiver	R&S	102361	21th Apr. 2021	21th Apr. 2020
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	5th Sep. 2021	6th Sep. 2016
5	VULB 9163 Ultra log test antenna	schwarzbeck	867	25th Mar. 2021	25th Mar. 2020
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	25th Mar. 2021	25th Mar. 2020
7	SAS-574 Horn Antenna	schwarzbeck	535	20th Aug. 2021	20th Aug. 2020
8	ENV216 AMN	R&S	3560.6550.12	20th Aug. 2021	20th Aug. 2020
9	EMC32EMI test software	R&S	-----	-----	-----

----------The end----------

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