
TEST REPORT

Report No.: SRTC2020-9003(F)-0019
Product Name: Mobile Broadband Internet Device
Model Name: K87CA
Applicant: ZTE Corporation
Manufacturer: ZTE Corporation
Specification: FCC Part15B (Certification)
(2020 edition)
FCC ID: SRQ-K87CA

The State Radio_monitoring_center Testing Center (SRTC)
15th Building, No.30 Shixing Street, Shijingshan District,
Beijing, China

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CONTENTS

1. General information	3
1.1 Notes of the test report	3
1.2 Information about the testing laboratory.....	3
1.3 Applicant's details	3
1.4 Manufacturer's details.....	3
1.5 Application details	4
1.6 Reference specification.....	4
1.7 Information of EUT	4
1.7.1 General information.....	4
1.7.2EUT details	5
1.7.3 Auxiliary equipment details.....	5
2. Test information	6
2.1 Summary of the test results	7
2.2 Test result.....	8
2.2.1Conducted Emissions-FCC Part15.107	8
2.2.2RadiatedEmissions-FCC Part15.109.....	17
2.3. List of test equipments	30

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
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Email: liujiaf@srtc.org.cn

1.3 Applicant's details

Company: ZTE Corporation
Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, NanshanDistrict, Shenzhen, Guangdong,518057,P.R.China
City: Shenzhen
Country or Region: P.R.China
Contacted person: Zhao Yang
Tel: + 86-029-83637990
Email: zhao.yangxa@zte.com.cn

1.4 Manufacturer's details

Company: ZTE Corporation
Address: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, NanshanDistrict, Shenzhen, Guangdong,518057,P.R.China
City: Shenzhen
Country or Region: P.R.China
Contacted person: Zhao Yang
Tel: + 86-029-83637990
Email: zhao.yangxa@zte.com.cn

1.5 Application details

Date of reception of test sample: 26th May. 2020

Date of test: 26th May. 2020 to 11th June. 2020

1.6 Reference specification

FCC Part 15B, 2020 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	Mobile Broadband Internet Device
Model Name	K87CA
FCC ID	SRQ-K87CA
Frequency Range	WCDMA: FDD II / FDD IV / FDD V LTE: FDD 2/ FDD 4/ FDD 5/ FDD 7/FDD 12/FDD 13/FDD 66 Bluetooth: 2.4~2.4835GHz WiFi: 2.4~2.4835GHz
Equipment Class	Class B
Power Supply	Battery or Charger
Rated Power Supply Voltage	3.8V
Extreme Temperature	Lowest: -10°C Highest: +55°C
Extreme Voltage	Minimum: 3.6V Maximum: 4.35V
HW Version	K87CAHW1.0
SW Version	K87CAV1.0.0B01

1.7.2EUT details

Product Name	Model Name	IMEI
Mobile Phone	K87CA	862750040002476

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Laptop

Manufacturer	Lenovo
Model Number	E470c
S/N	PF10VBX6
Input Voltage	100V-240V AC

AE (Auxiliary Equipment) 2#: USB Cable1

Manufacturer	Shen Zhen Shi Yi HUA XING Electron Co.,Ltd
Model Number	USB-MU5-W-100-M

AE (Auxiliary Equipment) 3#: USB Cable2

Manufacturer	King Power Electronics Co., Ltd
Model Number	USB-MU5-W-100-M

AE (Auxiliary Equipment) 4#: Battery

Type	Li-Lon
Manufacturer	ZHUHAI COSMX BATTERY CO., LTD.
Model Number	Li3945T44P8hA69203
Capacity	/
Nominal Voltage	3.8V

AE (Auxiliary Equipment) 5#: Charger1

Manufacturer	RUIJING
Model Number	STC-A51D-Z
S/N	/
Input Voltage	100V-240V AC
Output Voltage	5.0VDC 1000mA

AE (Auxiliary Equipment) 6#: Charger2

Manufacturer	AOHAI
Model Number	STC-A51D-Z
S/N	/
Input Voltage	100V-240V AC
Output Voltage	5.0VDC 1000mA

AE (Auxiliary Equipment) 7#: Charger3

Manufacturer	Chenyang
Model Number	STC-A520A-Z
S/N	/
Input Voltage	100V-240V AC
Output Voltage	5.0VDC 1000mA

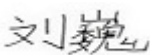
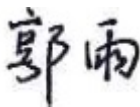
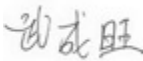
AE (Auxiliary Equipment) 8#: Charger4

Manufacturer	RUIJING
Model Number	STC-A520A-Z
S/N	/
Input Voltage	100V-240V AC
Output Voltage	5.0VDC 1000mA

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. Wu Chengwang 	Issued date: 2020.6.15

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
24.6°C	40.2%	100.8kPa

Test Setup with laptop:

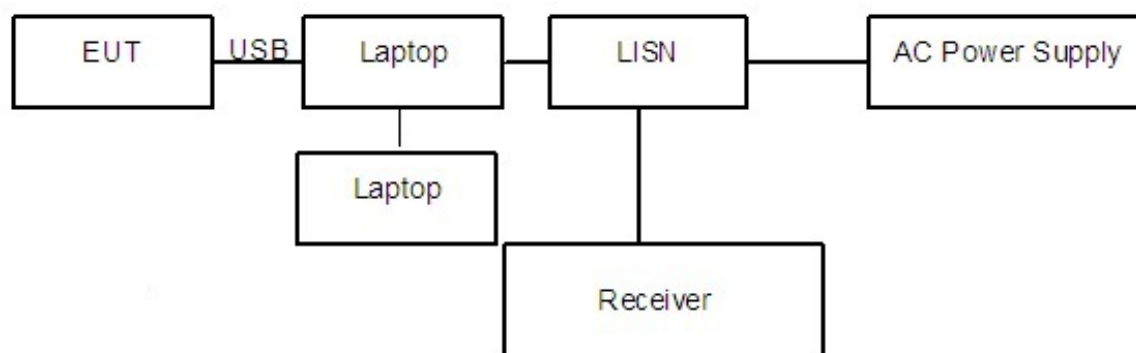


Figure 1

Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. 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 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 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.

Test Setup with charger:

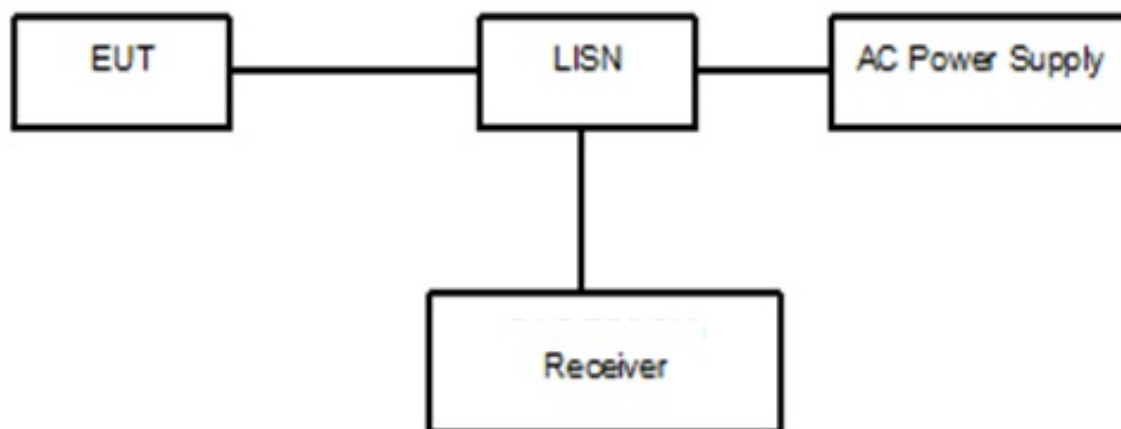


Figure 2

Test Procedure:

The EUT is placed on a non-metallic 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. Open the following functions of EUT: Camera, flash lamp 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 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.

A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ 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:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(27.5 \text{ dB}\mu\text{V}) = (-2.2 \text{ dB}\mu\text{V}) + (29.7 \text{ dB})$, the corresponding frequency is 0.414386MHz.

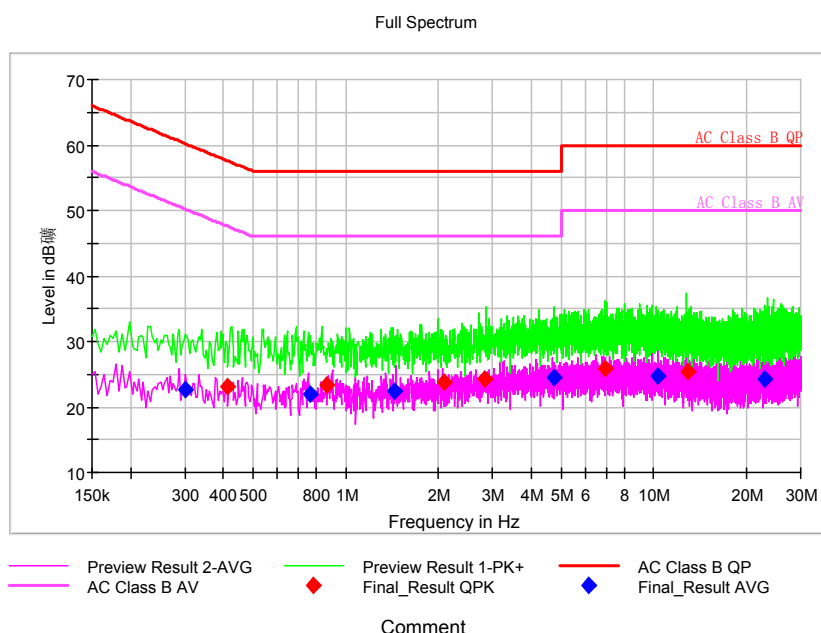
Limit:

Frequency of Emission(MHz)	Limits(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

Note: * Decreases with the logarithm of the frequency

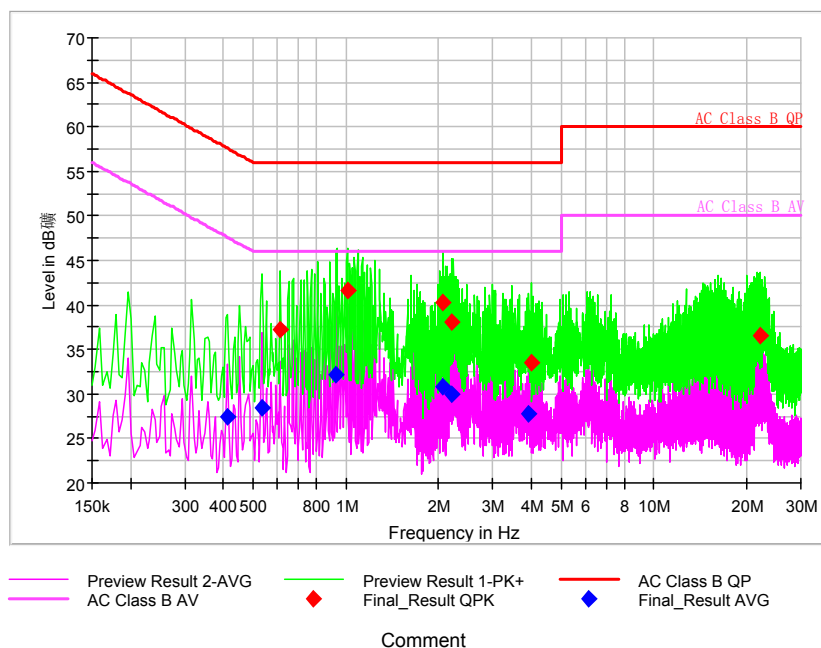
Test result:

Noise Level of the Measuring Instrument



Pic1. Conducted emission L and N Line

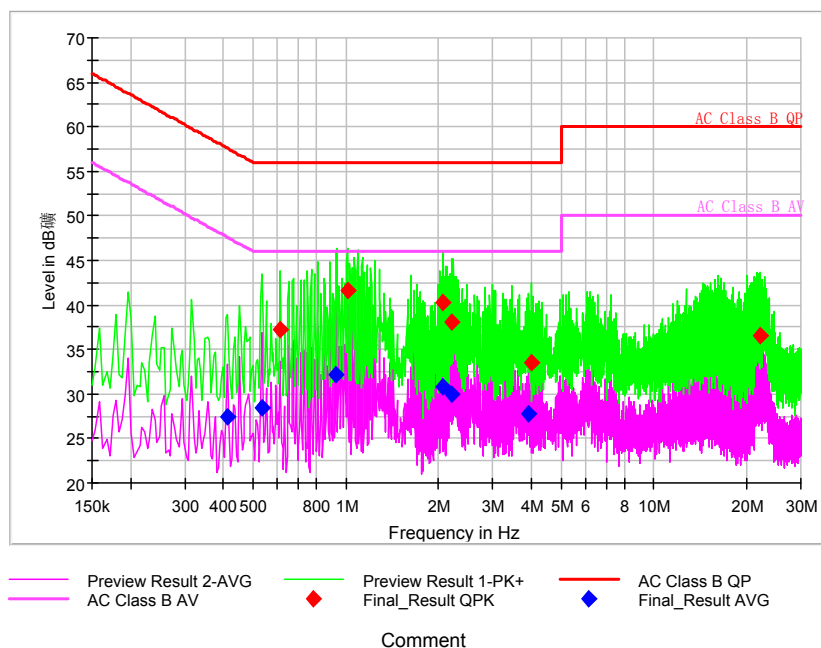
EUT + 2#USB Cable1+4#Battery+5#Charger1:



Pic2. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.414386	---	27.50	47.56	20.06	L	29.7	---	-2.2
0.533786	---	28.43	46.00	17.57	L	29.7	---	-1.27
0.614807	37.28	---	56.00	18.72	L	29.7	7.58	---
0.930364	---	32.13	46.00	13.87	L	29.7	---	2.43
1.011386	41.58	---	56.00	14.42	L	29.7	11.88	---
2.064664	---	30.89	46.00	15.11	L	29.8	---	1.09
2.064664	40.34	---	56.00	15.66	L	29.8	10.54	---
2.205386	38.02	---	56.00	17.98	L	29.8	8.22	---
2.205386	---	29.96	46.00	16.04	L	29.8	---	0.16
3.936686	---	27.78	46.00	18.22	L	29.8	---	-2.02
4.013443	33.50	---	56.00	22.50	L	29.8	3.7	---
22.153714	36.57	---	60.00	23.43	L	30.0	6.57	---

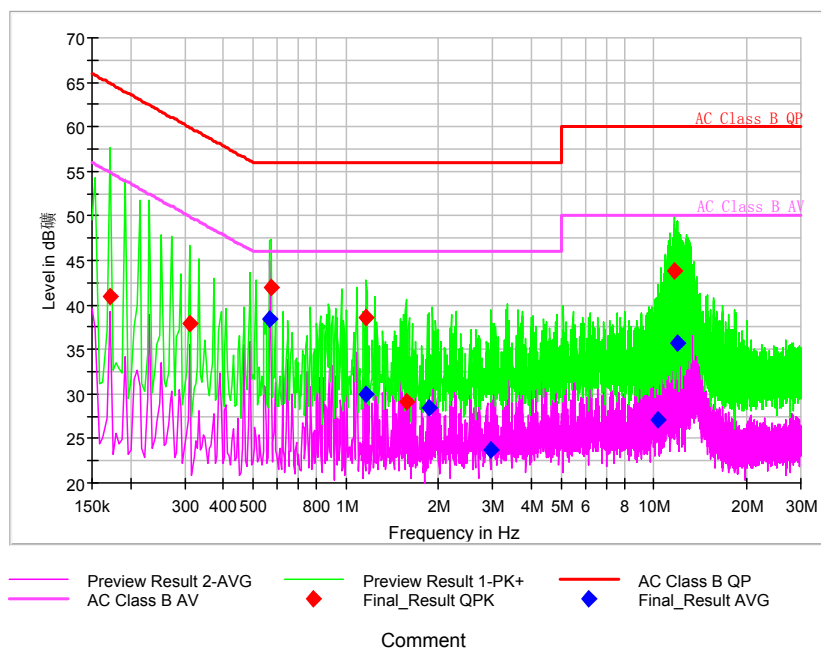
EUT + 3#USB Cable2+4#Battery+6#Charger2:



Pic3. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.162793	46.04	---	65.32	19.28	L	29.7	13.56	---
0.162793	---	36.47	55.32	18.85	L	29.7	---	9.87
0.555107	---	31.03	46.00	14.97	L	29.7	11.48	---
0.559371	37.18	---	56.00	18.82	L	29.7	---	6
1.007121	---	26.34	46.00	19.66	L	29.7	9.64	---
1.254450	34.55	---	56.00	21.45	L	29.7	---	0.39
3.868457	38.53	---	56.00	17.47	L	29.8	4.72	---
4.392964	---	29.79	46.00	16.21	L	29.8	---	-0.38
7.569857	37.17	---	60.00	22.83	L	29.9	---	-1.79
9.885364	---	28.07	50.00	21.93	L	29.9	4.76	---
12.414086	36.84	---	60.00	23.16	L	29.9	---	3.74
14.025986	---	27.61	50.00	22.39	L	29.9	15.19	---

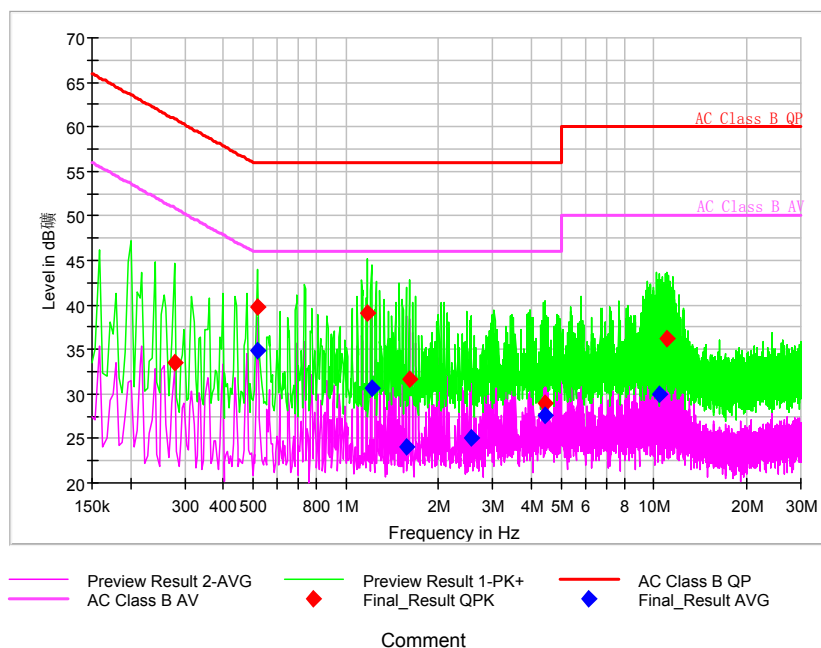
EUT + 2#USB Cable1+4#Battery+7#Charger3:



Pic4. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.171321	40.97	---	64.90	23.92	L	29.7	11.27	---
0.312043	37.84	---	59.92	22.08	L	29.7	8.14	---
0.567900	---	38.42	46.00	7.58	L	29.7	---	8.72
0.572164	41.96	---	56.00	14.04	L	29.7	12.26	---
1.164900	---	29.91	46.00	16.09	L	29.7	---	0.21
1.164900	38.57	---	56.00	17.43	L	29.7	8.87	---
1.565743	29.18	---	56.00	26.82	L	29.8	-0.62	---
1.859979	---	28.36	46.00	17.64	L	29.8	---	-1.44
2.951636	---	23.79	46.00	22.21	L	29.8	---	-6.01
10.252093	---	27.08	50.00	22.92	L	29.9	---	-2.82
11.603871	43.84	---	60.00	16.16	L	29.9	13.94	---
11.962071	---	35.77	50.00	14.23	L	29.9	---	5.87

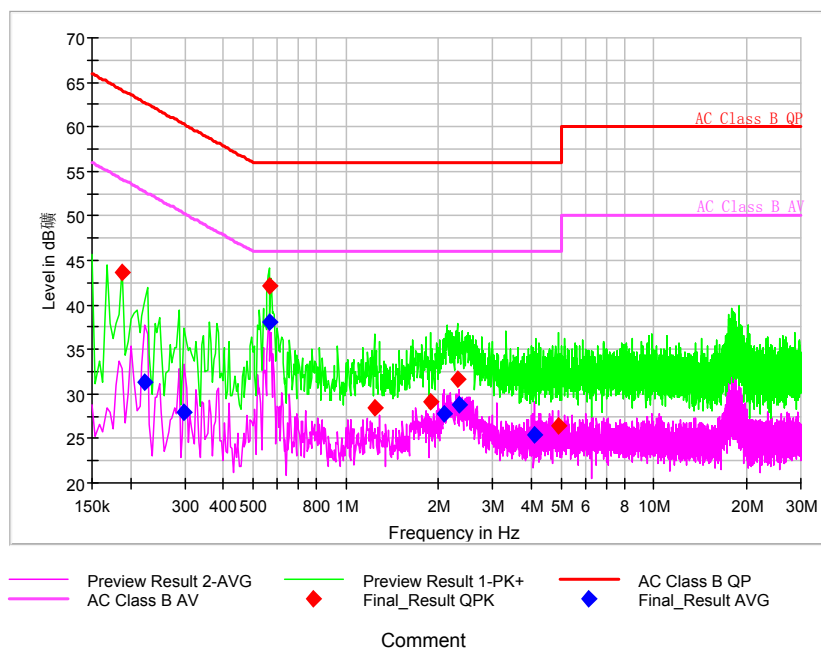
EUT + 3#USB Cable2+4#Battery+8#Charger4:



Pic5. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.277929	33.51	---	60.88	27.37	L	29.7	3.81	---
0.516729	---	34.85	46.00	11.15	L	29.7	---	5.15
0.516729	39.82	---	56.00	16.18	L	29.7	10.12	---
1.173429	39.07	---	56.00	16.93	L	29.7	9.37	---
1.211807	---	30.69	46.00	15.31	L	29.7	---	0.99
1.565743	---	24.07	46.00	21.93	L	29.8	---	-5.73
1.612650	31.72	---	56.00	24.28	L	29.8	1.92	---
2.563586	---	25.14	46.00	20.86	L	29.8	---	-4.66
4.431343	29.03	---	56.00	26.97	L	29.8	-0.77	---
4.431343	---	27.63	46.00	18.37	L	29.8	---	-2.17
10.380021	---	29.93	50.00	20.07	L	29.9	---	0.03
11.075100	36.29	---	60.00	23.71	L	29.9	6.39	---

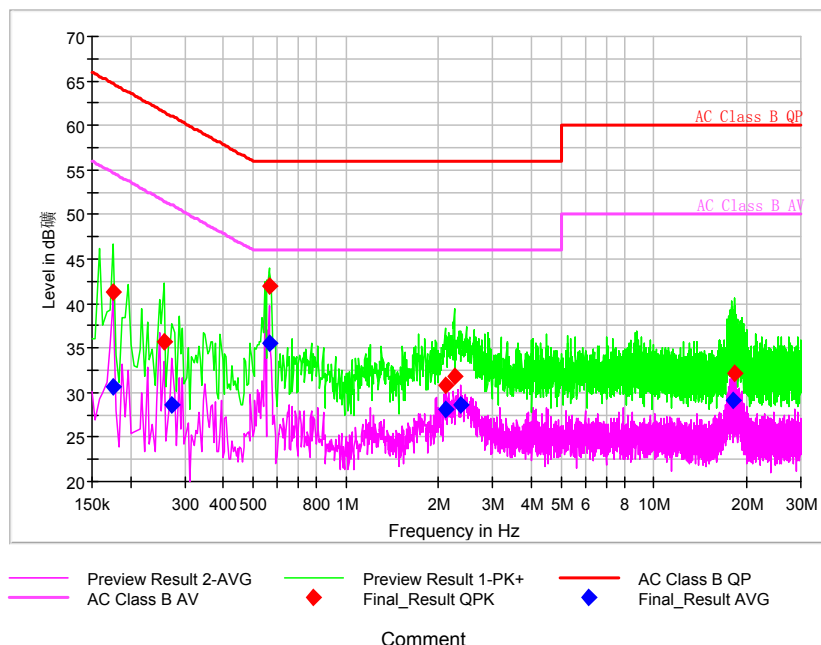
EUT + 2#USB Cable1+4#Battery +Laptop:



Pic6. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.188379	43.57	---	64.11	20.54	L	29.7	13.87	---
0.222493	---	31.34	52.73	21.39	L	29.7	---	1.64
0.299250	---	27.90	50.26	22.37	N	29.7	---	-1.8
0.563636	42.18	---	56.00	13.82	L	29.7	12.48	---
0.563636	---	38.09	46.00	7.91	L	29.7	---	8.39
1.237393	28.47	---	56.00	27.53	L	29.7	-1.23	---
1.885564	29.08	---	56.00	26.92	L	29.8	-0.72	---
2.090250	---	27.77	46.00	18.23	L	29.8	---	-2.03
2.299200	31.69	---	56.00	24.31	L	29.8	1.89	---
2.324786	---	28.78	46.00	17.22	L	29.8	---	-1.02
4.085936	---	25.33	46.00	20.67	L	29.8	---	-4.47
4.921736	26.42	---	56.00	29.58	L	29.8	-3.38	---

EUT + 3#USB Cable2+4#Battery +Laptop:



Pic7. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.175586	---	30.56	54.69	24.13	L	29.7	---	0.86
0.175586	41.30	---	64.69	23.39	L	29.7	11.6	---
0.256607	35.73	---	61.54	25.81	L	29.7	6.03	---
0.273664	---	28.70	51.01	22.31	L	29.7	---	-1
0.563636	---	35.54	46.00	10.46	L	29.7	---	5.84
0.563636	41.99	---	56.00	14.01	L	29.7	12.29	---
2.098779	30.87	---	56.00	25.13	L	29.8	1.07	---
2.120100	---	28.08	46.00	17.92	L	29.8	---	-1.72
2.248029	31.81	---	56.00	24.19	L	29.8	2.01	---
2.358900	---	28.60	46.00	17.40	L	29.8	---	-1.2
18.098379	---	29.15	50.00	20.85	L	30.0	---	-0.85
18.260421	32.24	---	60.00	27.76	L	30.0	2.24	---

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
24.5°C	40.1%	100.8kPa

Test Setup:

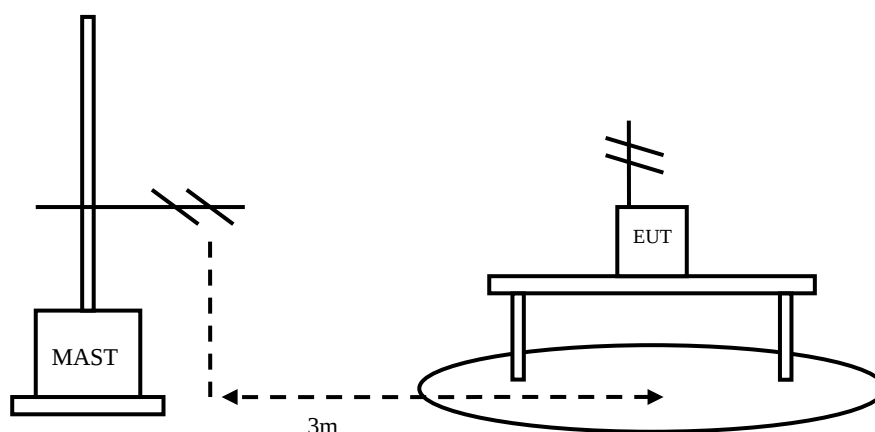


Figure 3

Test Procedure:

EUT+Laptop:

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 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 to 4 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.

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. Open the following functions of EUT: Camera, flash lamp 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 to 4 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: $30\text{MHz} < f < 1\text{GHz}$

RBW=1MHz, VBW=3MHz, when the test frequency: $f > 1\text{GHz}$

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:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dB μ V/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	54
	Peak	74

Test result:

Sample calculation: $(28.21 \text{ dB } \mu \text{ V/m}) = (48.91 \text{ dB } \mu \text{ V/m}) + (-20.7 \text{ dB})$, the corresponding frequency is 119.987500MHz.

EUT + 2#USB Cable1+4#Battery +Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
119.987500	28.21	43.50	-20.7	48.91	V
168.002500	31.65	43.50	-20.8	52.45	V
311.999000	33.71	46.00	-14.7	48.41	V
360.014000	33.31	46.00	-13.1	46.41	V
504.010500	31.41	46.00	-9.2	40.61	V
648.007000	31.11	46.00	-6	37.11	V

EUT + 3#USB Cable2+4#Battery +Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
168.002500	31.43	43.50	-20.8	52.23	V
311.999000	33.44	46.00	-14.7	48.14	V
360.014000	33.15	46.00	-13.1	46.25	V
455.995500	31.65	46.00	-10.4	42.05	V
504.010500	31.87	46.00	-9.2	41.07	V
648.015500	30.43	46.00	-6.0	36.43	V

EUT + 2#USB Cable1+4#Battery +5#Charger1:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
73.267500	21.74	40.00	-22.4	44.14	V
73.319500	22.43	40.00	-22.4	44.83	V
73.330500	22.08	40.00	-22.4	44.48	V
73.353500	22.36	40.00	-22.4	44.76	V
73.398500	21.09	40.00	-22.4	43.49	V
73.544000	20.78	40.00	-22.4	43.18	V

EUT + 3#USB Cable2+4#Battery +6#Charger2:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
73.288000	33.96	40.00	-22.4	56.36	V
73.404500	33.86	40.00	-22.4	56.26	V
73.459000	35.28	40.00	-22.4	57.68	V
73.461500	35.11	40.00	-22.4	57.51	V
73.465000	35.39	40.00	-22.4	57.79	V
73.641000	34.67	40.00	-22.5	57.17	V

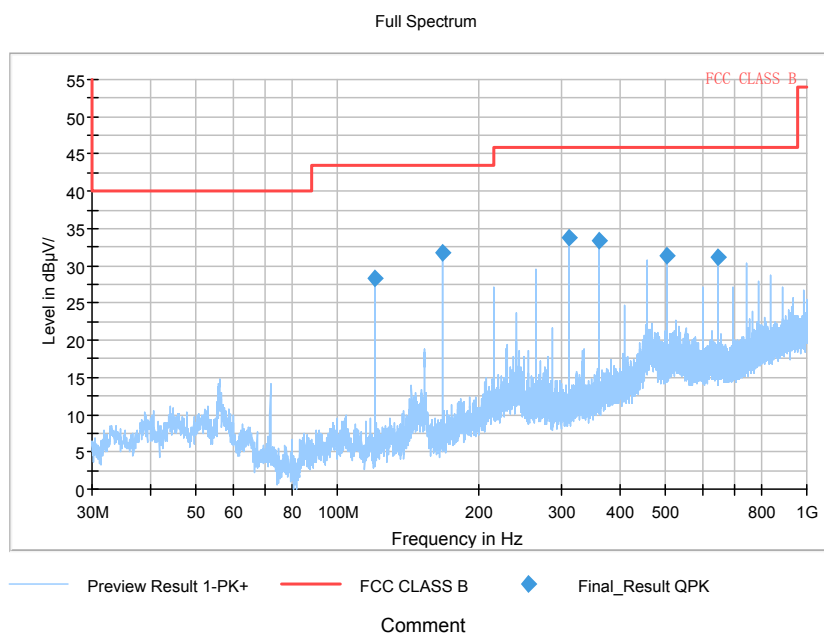
EUT + 2#USB Cable1+4#Battery +7#Charger3:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
69.391000	36.24	40.00	-21.4	57.64	V
69.404500	36.38	40.00	-21.5	57.88	V
69.425000	36.47	40.00	-21.5	57.97	V
69.541500	36.34	40.00	-21.5	57.84	V
69.602000	36.50	40.00	-21.5	58	V
69.664000	36.19	40.00	-21.5	57.69	V

EUT + 3#USB Cable2+4#Battery +8#Charger4:

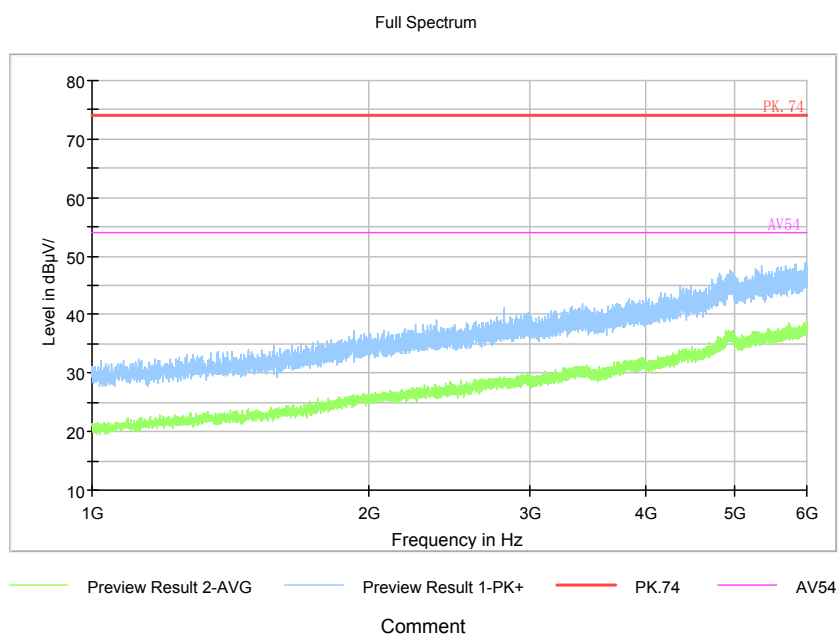
Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
64.246500	29.75	40.00	-19.8	49.55	V
64.537500	29.25	40.00	-19.9	49.15	V
65.365500	30.06	40.00	-20.2	50.26	V
65.462500	30.02	40.00	-20.2	50.22	V
65.467500	29.90	40.00	-20.2	50.1	V
65.479500	29.84	40.00	-20.2	50.04	V

EUT + 2#USB Cable1+4#Battery +Laptop: refer to Pic8, Pic9, Pic10



Pic8. Radiated emission(30MHz – 1GHz)

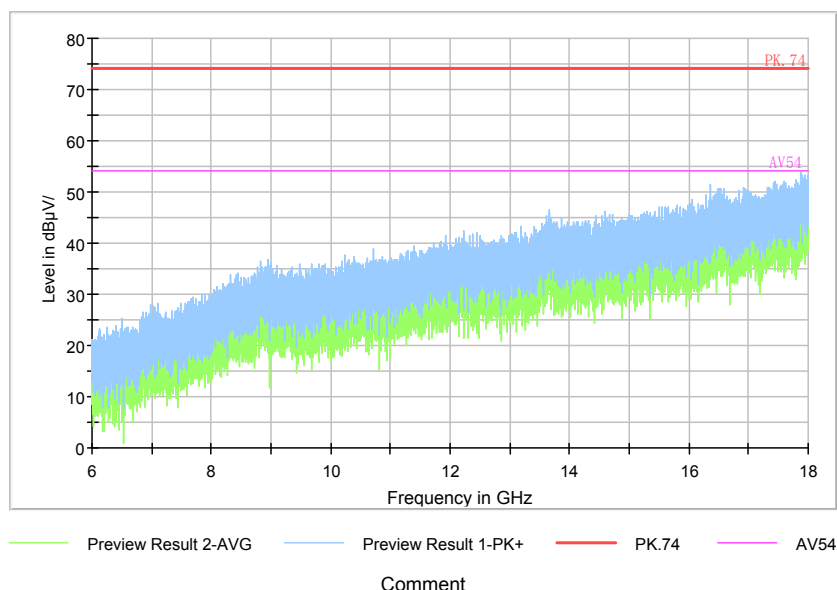
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic9. Radiated emission (1GHz –6GHz)

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

Full Spectrum



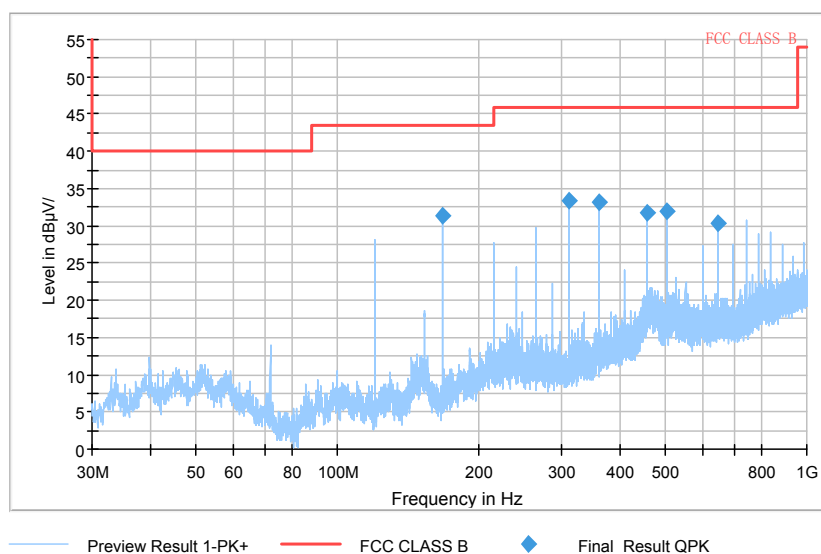
Comment

Pic10. Radiated emission (6GHz –18GHz)

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

EUT + 3#USB Cable2+4#Battery +Laptop: refer to Pic11, Pic12, Pic13

Full Spectrum

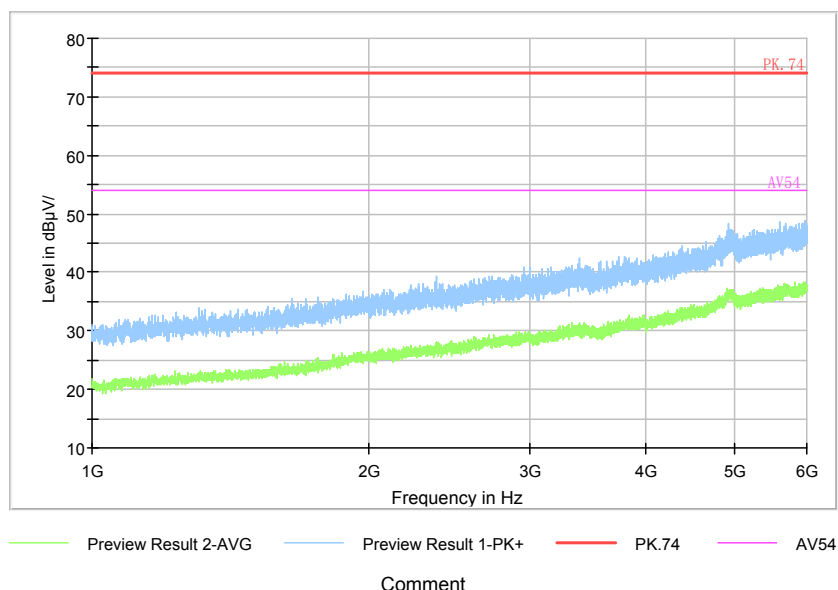


Comment

Pic11. Radiated emission(30MHz – 1GHz)

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

Full Spectrum

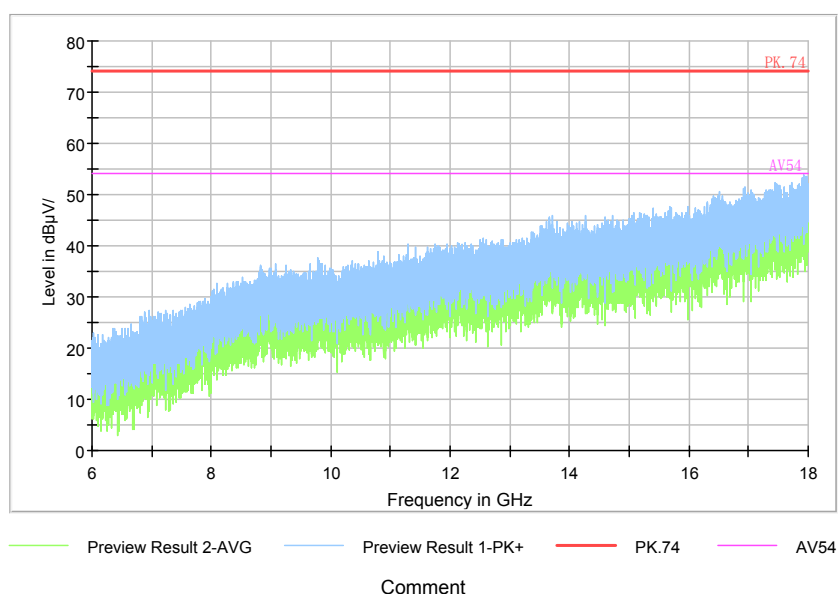


Comment

Pic12. Radiated emission (1GHz –6GHz)

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

Full Spectrum

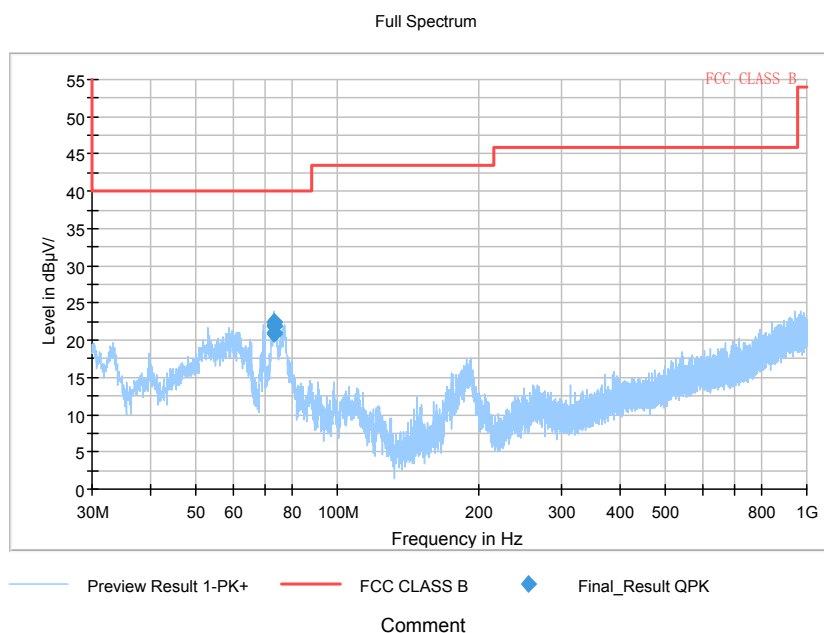


Comment

Pic13. Radiated emission (6GHz –18GHz)

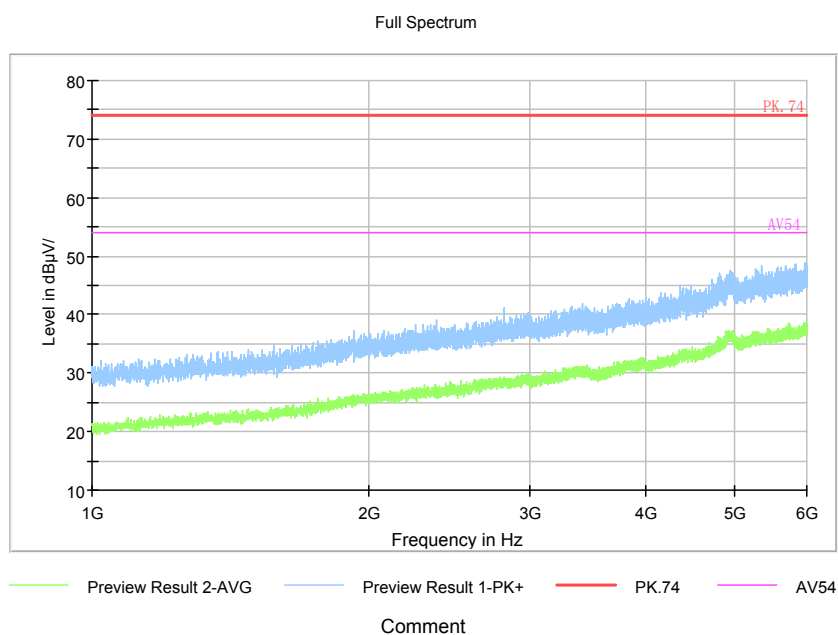
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT + 2#USB Cable1+4#Battery +5#Charger1: refer to Pic14, Pic15, Pic16



Pic14. Radiated emission(30MHz – 1GHz)

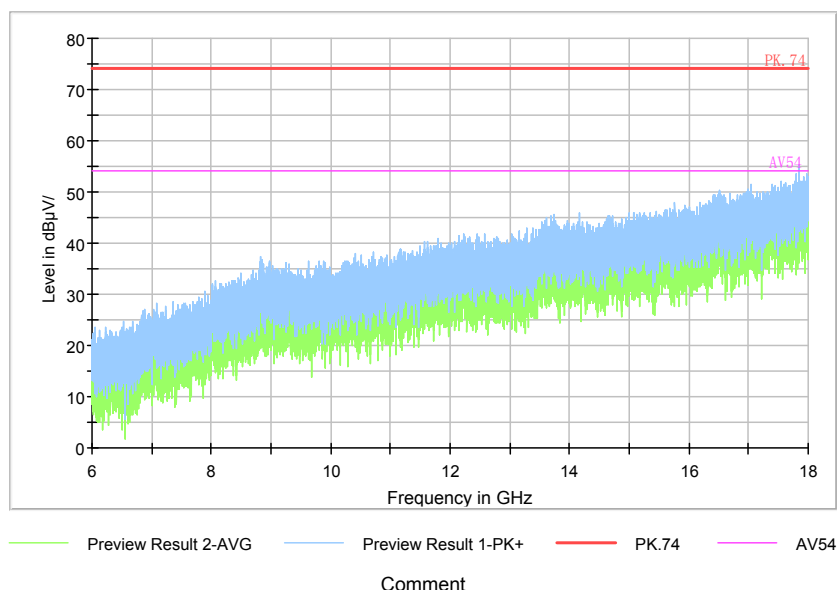
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic15. Radiated emission (1GHz –6GHz)

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

Full Spectrum



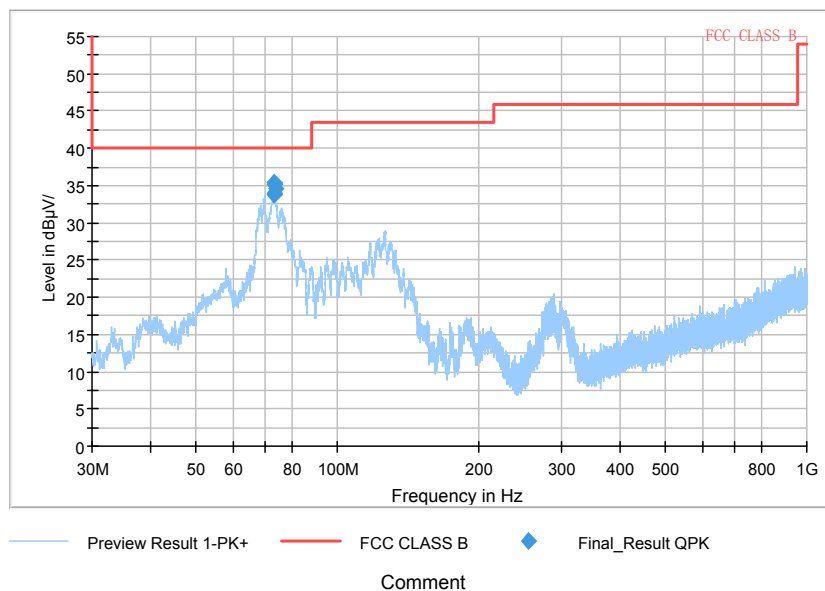
Comment

Pic16. Radiated emission (6GHz –18GHz)

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

EUT + 3#USB Cable2+4#Battery +6#Charger2: refer to Pic17, Pic18, Pic19

Full Spectrum

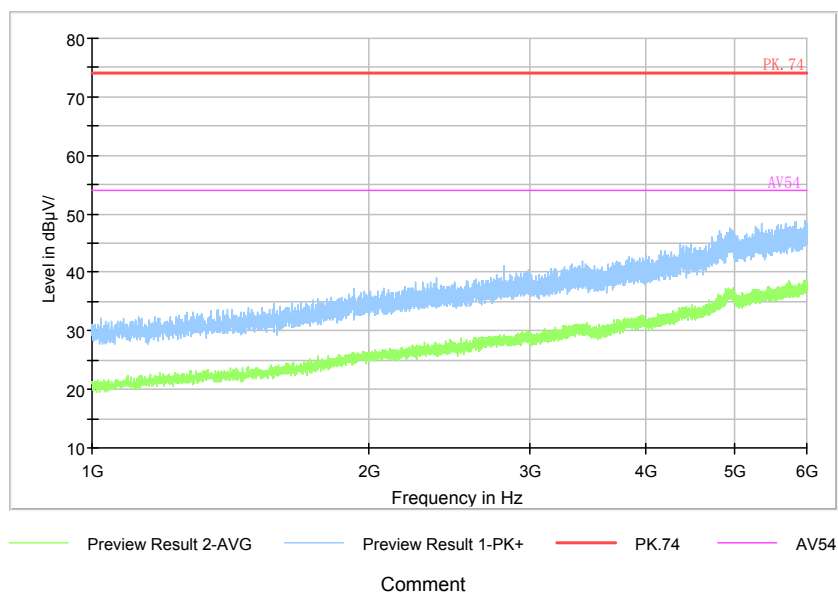


Comment

Pic17. Radiated emission(30MHz – 1GHz)

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

Full Spectrum

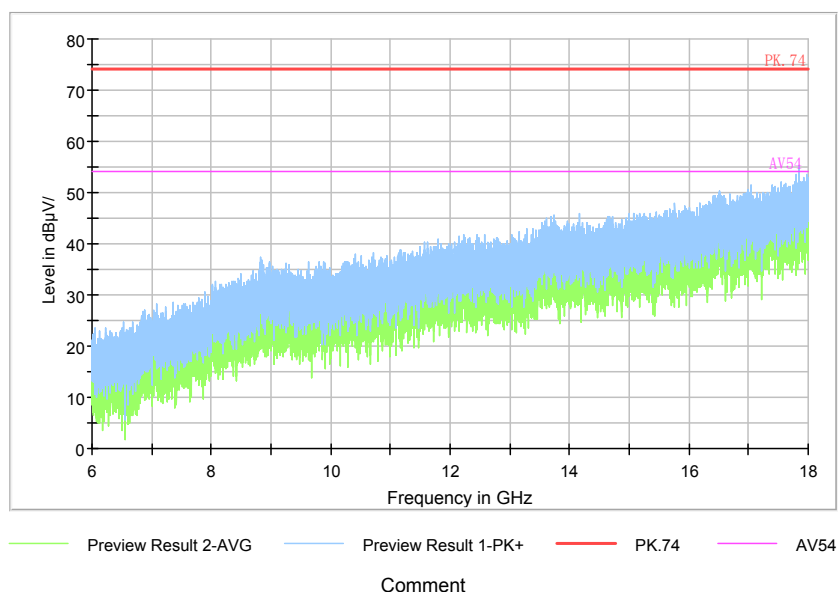


Comment

Pic18. Radiated emission (1GHz –6GHz)

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

Full Spectrum

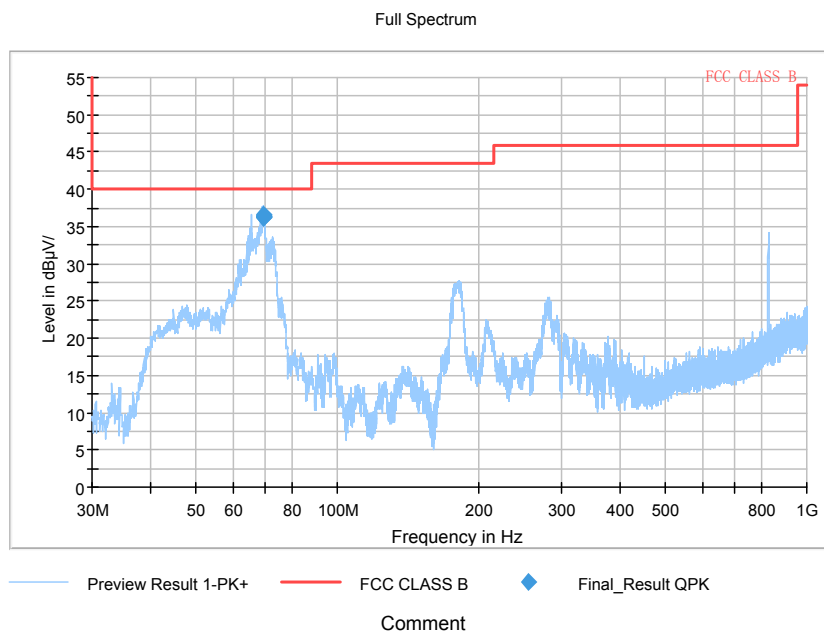


Comment

Pic19. Radiated emission (6GHz –18GHz)

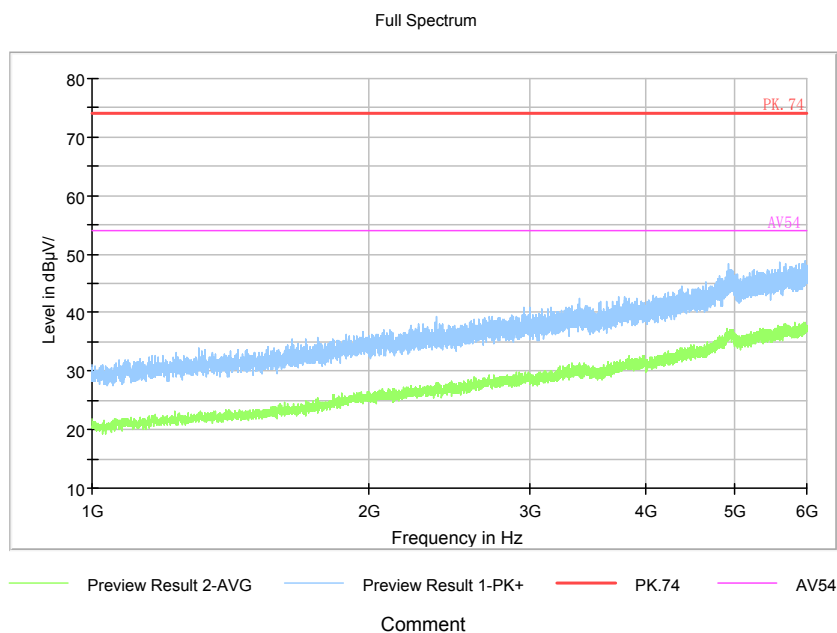
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT + 2#USB Cable1+4#Battery +7#Charger3: refer to Pic20, Pic21, Pic22



Pic20. Radiated emission(30MHz – 1GHz)

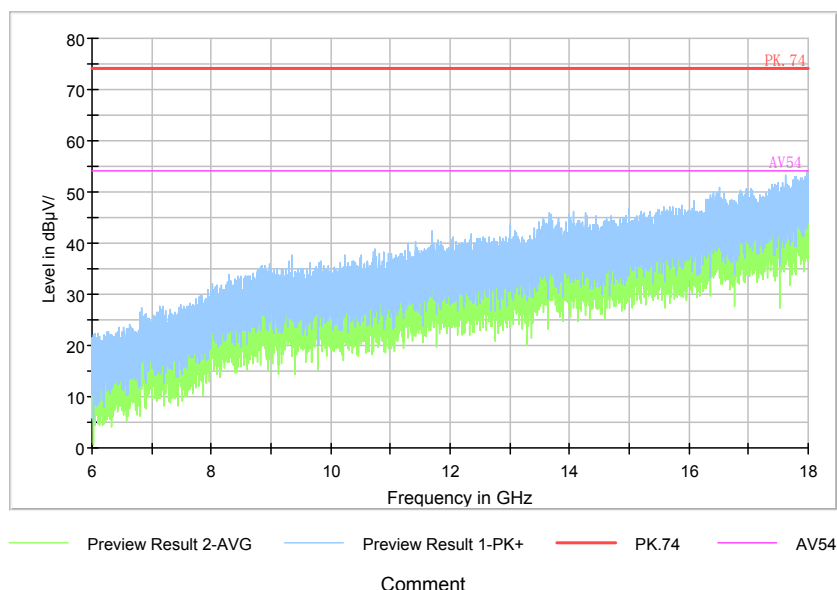
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic21. Radiated emission (1GHz –6GHz)

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

Full Spectrum



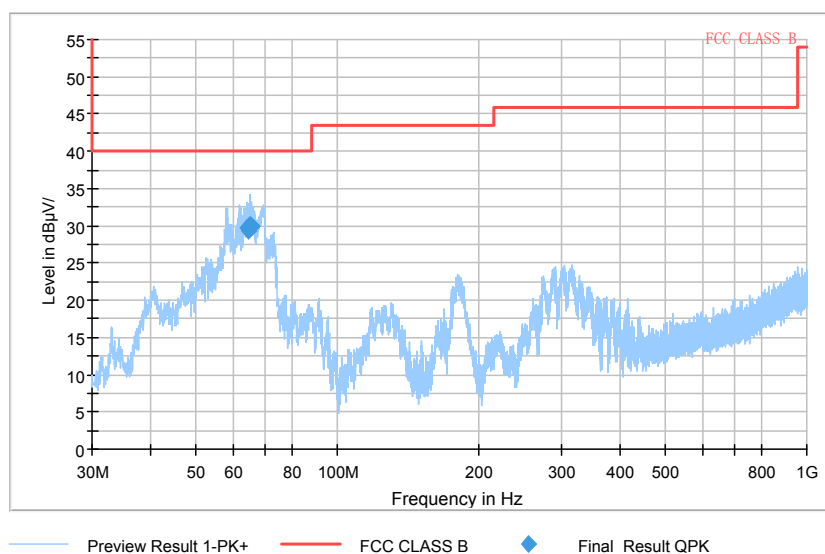
Comment

Pic22. Radiated emission (6GHz –18GHz)

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

EUT + 3#USB Cable2+4#Battery +8#Charger4: refer to Pic23, Pic24, Pic25

Full Spectrum

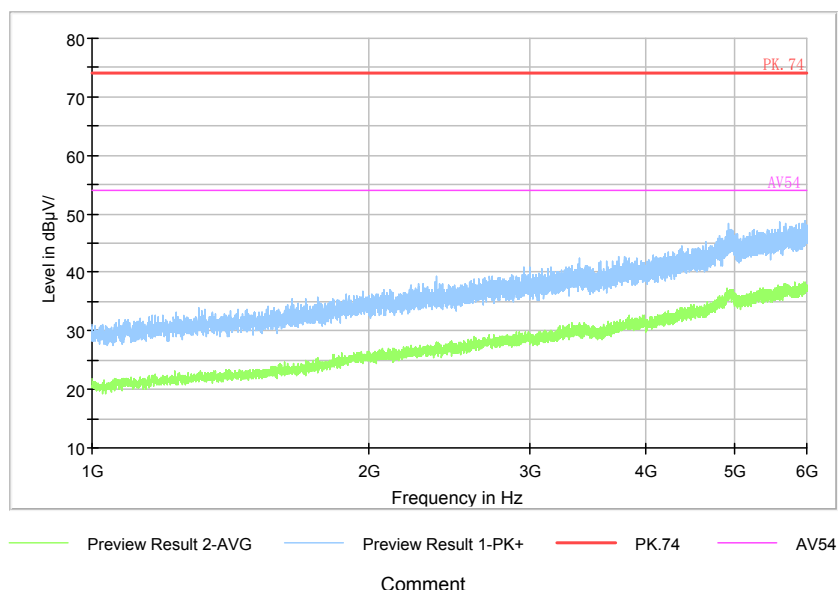


Comment

Pic23. Radiated emission(30MHz – 1GHz)

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

Full Spectrum

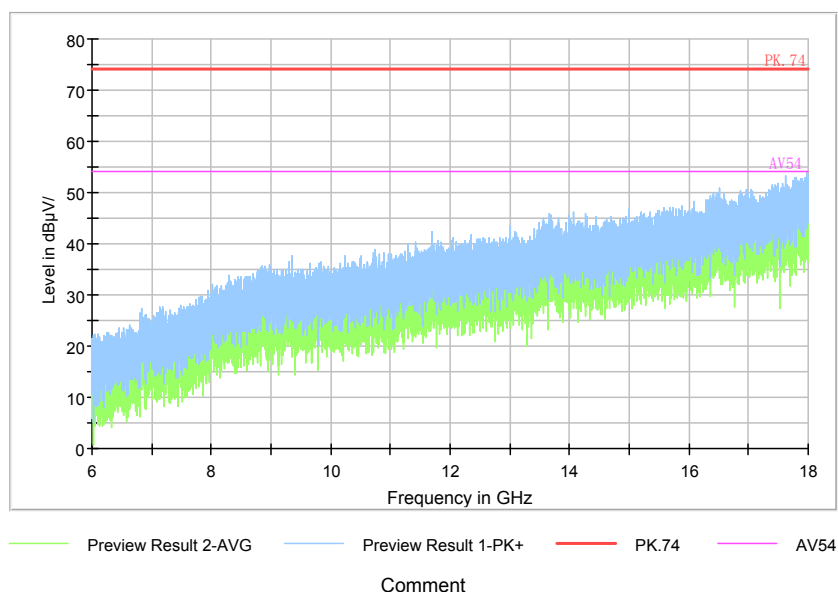


Comment

Pic24. Radiated emission (1GHz –6GHz)

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

Full Spectrum



Comment

Pic25. Radiated emission (6GHz –18GHz)

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

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mS emi-AnechoicChamber	FRANKONIA	-----	5th Sep. 2021	6th Sep. 2016
2	ESW EMI test receiver	R&S	101574	20th Aug. 2020	20th Aug. 2019
3	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	5th Sep. 2021	6th Sep. 2016
4	ESR3 EMI test receiver	R&S	102361	20th Aug. 2020	20th Aug. 2019
5	VULB 9163 Ultra log test antenna	schwarzbeck	867	25th Mar. 2021	25th Mar. 2020
6	ENV216 AMN	R&S	3560.6550. 12	20th Aug. 2020	20th Aug. 2019
7	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	20th Aug. 2020	20th Aug. 2019
8	PS2000 Turn Table	FRANKONIA	-----	-----	-----
9	MA260 Antenna Master	FRANKONIA	-----	-----	-----
10	EMC32EMI test software	R&S	-----	-----	-----

-----The End-----