
TEST REPORT

Report No.: SRTC2020-9003(R)-0061
Product Name: Mobile Broadband Internet Device
Model Name: K87CC
Applicant: ZTE Corporation
Manufacturer: ZTE Corporation
Specification: FCC Part15B (Certification)
(2019 edition)
FCC ID: SRQ-K87CC

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

Tel: 86-10-57996183 Fax: 86-10-57996388

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	5
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.....	16
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
Fax: +86 10 57996388
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: 10th Sep. 2020

Date of test: 10th Sep. 2020 to 29th Sep. 2020

1.6 Reference specification

FCC Part 15B, 2019 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	Mobile Broadband Internet Device
Model Name	K87CC
FCC ID	SRQ-K87CC
Frequency Range	WCDMA: FDD II / FDD IV / FDD V LTE: FDD 2/ FDD 4/ FDD 5/ FDD 12/FDD 25/TDD 41/FDD 66/FDD 71 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	K87CCHW1.0
SW Version	K87CCV1.0.0B01

1.7.2EUT details

Product Name	Model Name	IMEI
Mobile Broadband Internet Device	K87CC	863753050004944

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Laptop

Manufacturer	Lenovo
Model Number	E7000
S/N	MP1965WU
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	Kingpower 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

AE (Auxiliary Equipment) 5#: Charger1

Manufacturer	Ruijing
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 6#: Charger2

Manufacturer	AOHAI
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 7#: Charger3

Manufacturer	PUAN
Model Number	STC-A51D-Z

AE (Auxiliary Equipment) 8#: K87CC base assembly

Manufacturer	Yi Zhi Qiang Plastics Mold Product Co.,Ltd
Model Number	ZX659.42JA-01-05 V1.0

AE (Auxiliary Equipment) 9#: Magnetic line of force

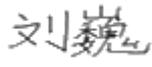
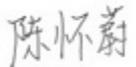
Manufacturer	Luxshare-ICT Co., Ltd
Model Number	USB-MU5-W-100-M

Note1: The K87CC base assembly (AE8) and the Magnetic line of force (AE9) can only be charged without the function of transmit data.

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: Mr. LiuWei Director of the test department 	Checked By: Mr. Guo Yu Vice director of the test department 
Tested By: Mr Chen Huaiwei 	Issued date: 2020.09.29

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
25.4°C	41.5%	100.2kPa

Test Setup with laptop:

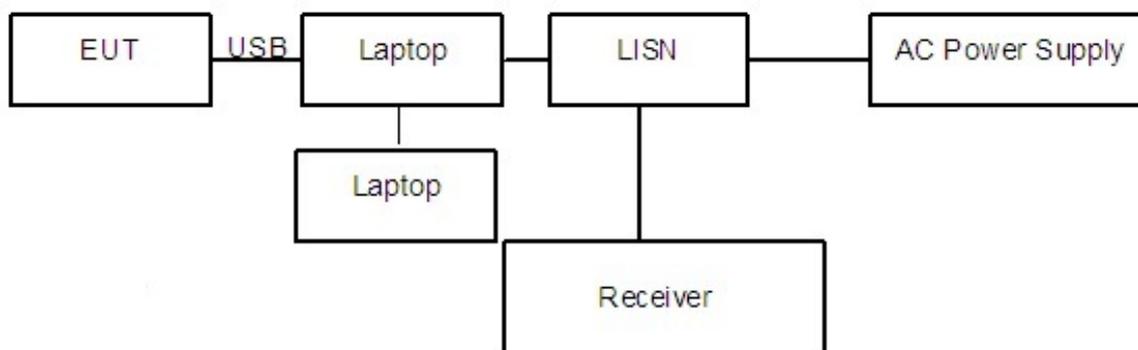


Figure 1

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:

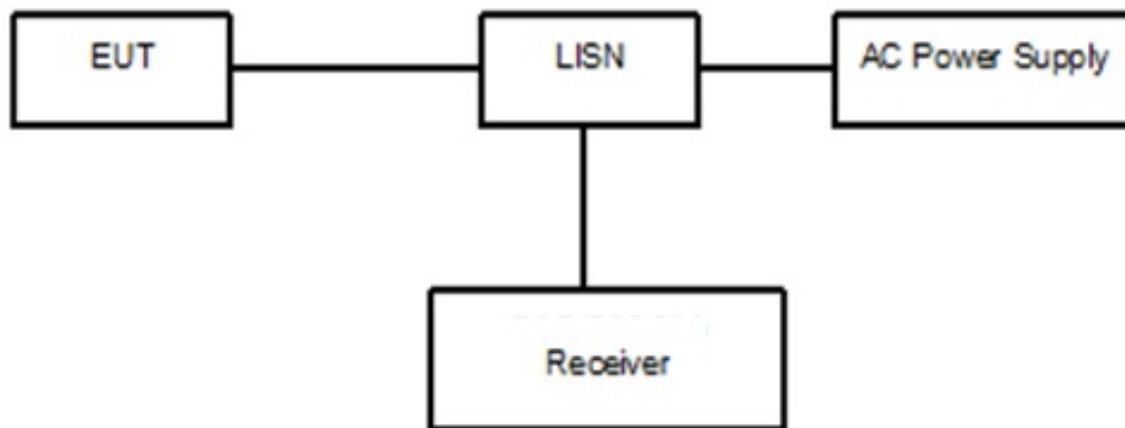


Figure 2

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 $L_{\text{cable+ATT+VDF}}$ 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:

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

Sample calculation: $(29.02 \text{ dB}\mu\text{V}) = (-0.58 \text{ dB}\mu\text{V}) + (29.6 \text{ dB})$, the corresponding frequency is 0.579094MHz.

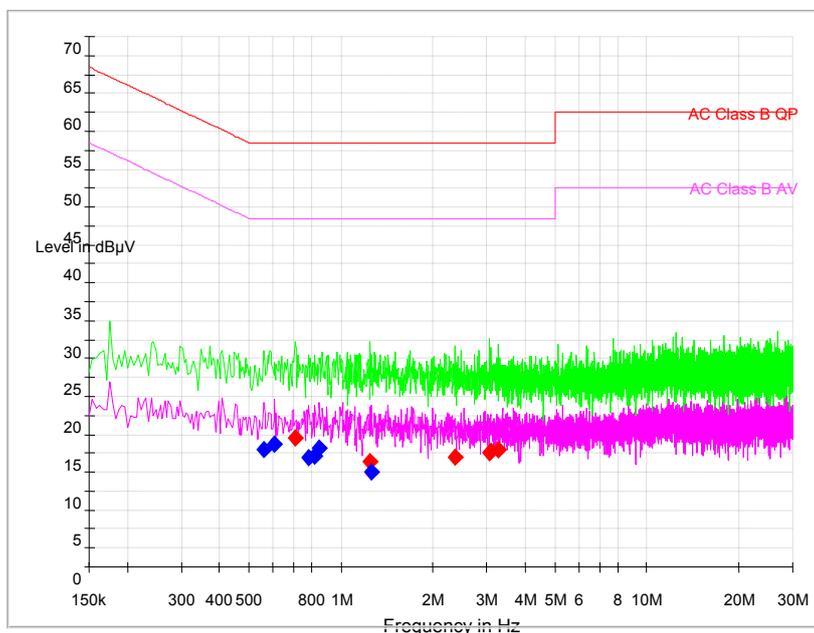
Limit:

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

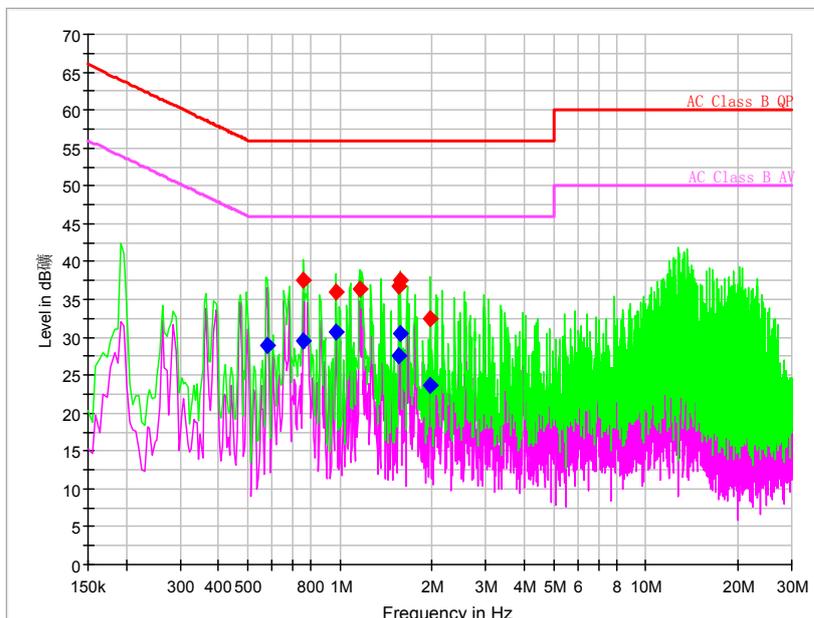
Test result:

Noise Level of the Measuring Instrument



Pic1. Conducted emission L and N Line

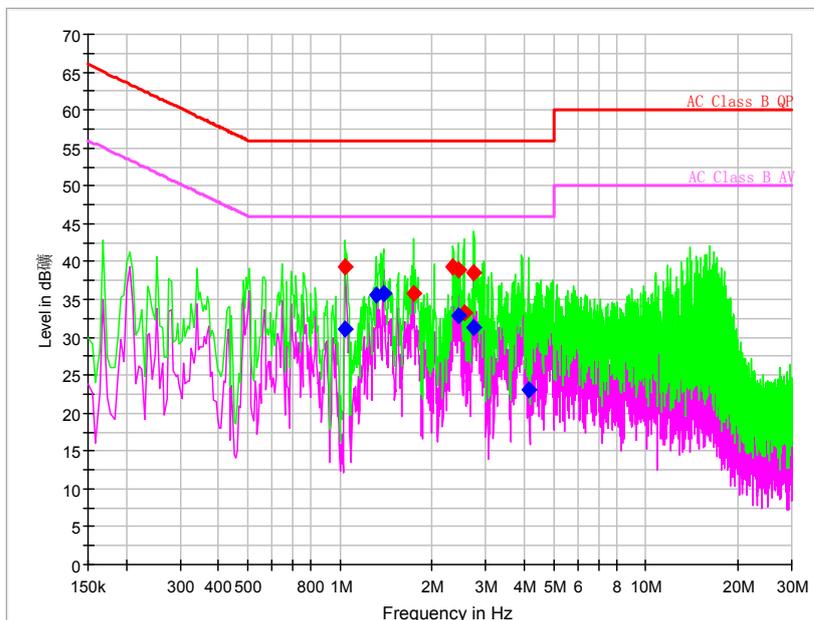
EUT+4#Battery+5#Charger1+8#K87CC base assembly+9# Magnetic line of force:



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)
0.579094	---	29.02	46.00	16.98	L	29.6	---	-0.58
0.760992	---	29.47	46.00	16.53	L	29.6	---	-0.13
0.760992	37.49	---	56.00	18.51	L	29.6	7.89	---
0.970875	36.06	---	56.00	19.94	L	29.7	6.36	---
0.970875	---	30.62	46.00	15.38	L	29.7	---	0.92
1.166766	36.28	---	56.00	19.72	L	29.7	6.58	---
1.553883	36.85	---	56.00	19.15	L	29.7	7.15	---
1.553883	---	27.65	46.00	18.35	N	29.7	---	-2.05
1.577203	37.52	---	56.00	18.48	L	29.7	7.82	---
1.577203	---	30.49	46.00	15.51	N	29.7	---	0.79
1.973648	---	23.69	46.00	22.31	N	29.7	---	-6.01
1.973648	32.54	---	56.00	23.46	L	29.7	2.84	---

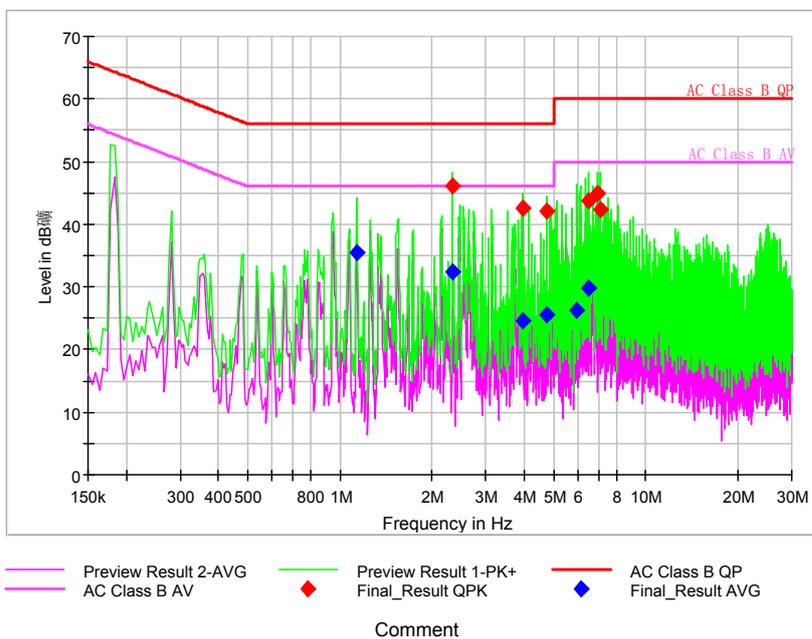
EUT +4#Battery+6#Charger2+8#K87CC base assembly+9# Magnetic line of force:



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)
1.036172	39.35	---	56.00	16.65	L	29.7	9.65	---
1.040836	---	31.12	46.00	14.88	L	29.7	---	1.42
1.316016	---	35.56	46.00	10.44	L	29.7	---	5.86
1.385977	---	35.75	46.00	10.25	L	29.7	---	6.05
1.740445	35.69	---	56.00	20.31	N	29.7	5.99	---
2.346773	39.26	---	56.00	16.74	L	29.7	9.56	---
2.430727	---	32.82	46.00	13.18	L	29.7	---	3.12
2.435391	38.83	---	56.00	17.17	L	29.7	9.13	---
2.542664	33.26	---	56.00	22.74	L	29.7	3.56	---
2.743219	---	31.34	46.00	14.66	N	29.7	---	1.64
2.743219	38.53	---	56.00	17.48	N	29.7	8.83	---
4.133109	---	23.13	46.00	22.87	N	29.7	---	-6.57

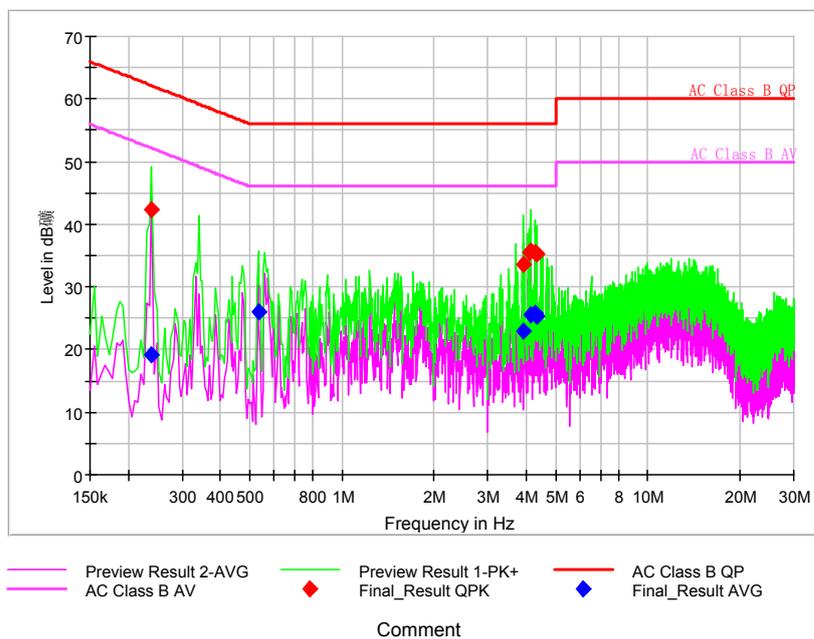
EUT+4#Battery+7#Charger3+8#K87CC base assembly+9# Magnetic line of force:



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)
1.134117	---	35.52	46.00	10.48	L	29.7	---	5.82
2.332781	---	32.47	46.00	13.53	L	29.7	---	2.77
2.332781	46.16	---	56.00	9.84	L	29.7	16.46	---
3.946547	---	24.70	46.00	21.30	L	29.7	---	-5
3.946547	42.53	---	56.00	13.47	L	29.7	12.83	---
4.725445	42.15	---	56.00	13.85	L	29.7	12.45	---
4.725445	---	25.46	46.00	20.54	L	29.7	---	-4.24
5.924109	---	26.14	50.00	23.86	L	29.7	---	-3.56
6.521109	43.85	---	60.00	16.15	N	29.7	14.15	---
6.521109	---	29.90	50.00	20.10	L	29.7	---	0.2
6.926883	44.86	---	60.00	15.14	N	29.7	15.16	---
7.118109	42.27	---	60.00	17.73	L	29.7	12.57	---

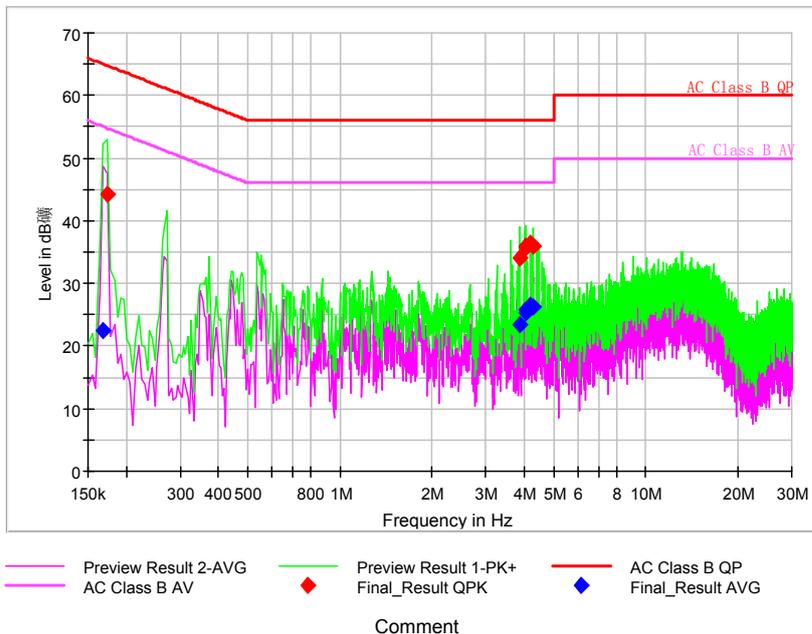
EUT + 2#USB Cable1+4#Battery +Laptop:



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)
0.238617	42.23	---	62.14	19.92	L	29.6	12.63	---
0.238617	---	19.26	52.14	32.89	L	29.6	---	-10.34
0.532453	---	26.07	46.00	19.93	N	29.6	---	-3.53
3.918562	---	23.04	46.00	22.96	L	29.7	---	-6.66
3.918562	33.46	---	56.00	22.54	L	29.7	3.76	---
4.100461	35.40	---	56.00	20.60	L	29.7	5.7	---
4.123781	---	25.51	46.00	20.49	L	29.7	---	-4.19
4.123781	35.62	---	56.00	20.38	N	29.7	5.92	---
4.282359	---	25.69	46.00	20.31	L	29.7	---	-4.01
4.282359	35.36	---	56.00	20.64	L	29.7	5.66	---
4.329000	---	25.35	46.00	20.65	L	29.7	---	-4.35
4.329000	35.15	---	56.00	20.85	L	29.7	5.45	---

EUT + 3#USB Cable2+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)
0.168656	---	22.51	55.03	32.52	L	29.6	---	-7.09
0.173320	44.33	---	64.80	20.46	L	29.6	14.73	---
3.853266	---	23.32	46.00	22.68	L	29.7	---	-6.38
3.853266	33.98	---	56.00	22.02	L	29.7	4.28	---
4.030500	---	25.24	46.00	20.76	L	29.7	---	-4.46
4.030500	35.60	---	56.00	20.40	L	29.7	5.9	---
4.067812	---	25.75	46.00	20.25	N	29.7	---	-3.95
4.067812	35.92	---	56.00	20.08	N	29.7	6.22	---
4.212398	---	26.37	46.00	19.63	L	29.7	---	-3.33
4.212398	36.38	---	56.00	19.62	L	29.7	6.68	---
4.268367	36.03	---	56.00	19.97	N	29.7	6.33	---
4.277695	---	26.17	46.00	19.83	L	29.7	---	-3.53

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
25.4°C	41.5%	100.2kPa

Test Setup:

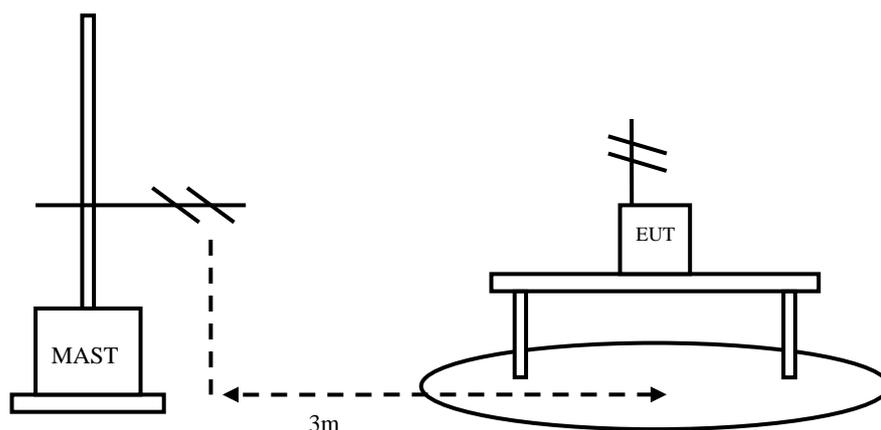


Figure 3

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: 30MHz<f<1GHz

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

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: $(34.36 \text{ dB } \mu \text{ V/m}) = (52.36 \text{ dB } \mu \text{ V/m}) + (-18.0 \text{ dB})$, the corresponding frequency is 216.017500MHz.

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
216.017500	34.36	46.00	-18.0	52.36	H
263.984000	30.36	46.00	-16.1	46.46	H
299.623000	29.74	46.00	-15.1	44.84	H
311.999000	33.24	46.00	-14.7	47.94	H
399.838500	30.50	46.00	-11.7	42.2	H
796.463000	20.17	46.00	-3.5	23.67	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
94.630500	19.57	43.50	-19.7	39.27	V
216.017500	34.13	46.00	-18.0	52.13	H
263.984000	30.00	46.00	-16.1	46.1	H
311.999000	29.87	46.00	-14.7	44.57	H
360.014000	31.74	46.00	-13.1	44.84	H
960.007500	26.92	54.00	-0.7	27.62	H

EUT+4#Battery +5#Charger1+8#K87CC base assembly+9# Magnetic line of force:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
52.943500	24.12	40.00	-17.5	41.62	V
53.562000	23.29	40.00	-17.6	40.89	V
135.866500	26.29	43.50	-21.7	47.99	V
173.114500	20.99	43.50	-20.5	41.49	H
532.032500	14.87	46.00	-8.4	23.27	H
932.316500	20.96	46.00	-1.1	22.06	H

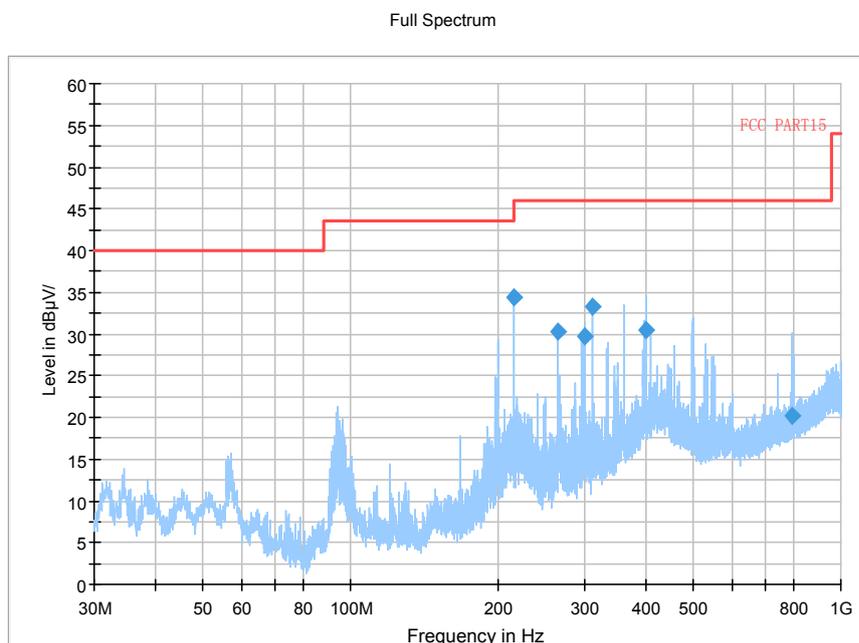
EUT +4#Battery +6#Charger2+8#K87CC base assembly+9# Magnetic line of force:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
31.894500	18.42	40.00	-20.6	39.02	V
74.306500	12.16	40.00	-22.6	34.76	V
168.350500	14.63	43.50	-20.7	35.33	H
178.807000	24.55	43.50	-20.2	44.75	H
540.568500	14.90	46.00	-8.2	23.1	H
954.236000	20.94	46.00	-0.8	21.74	H

EUT +4#Battery +7#Charger3+8#K87CC base assembly+9# Magnetic line of force:

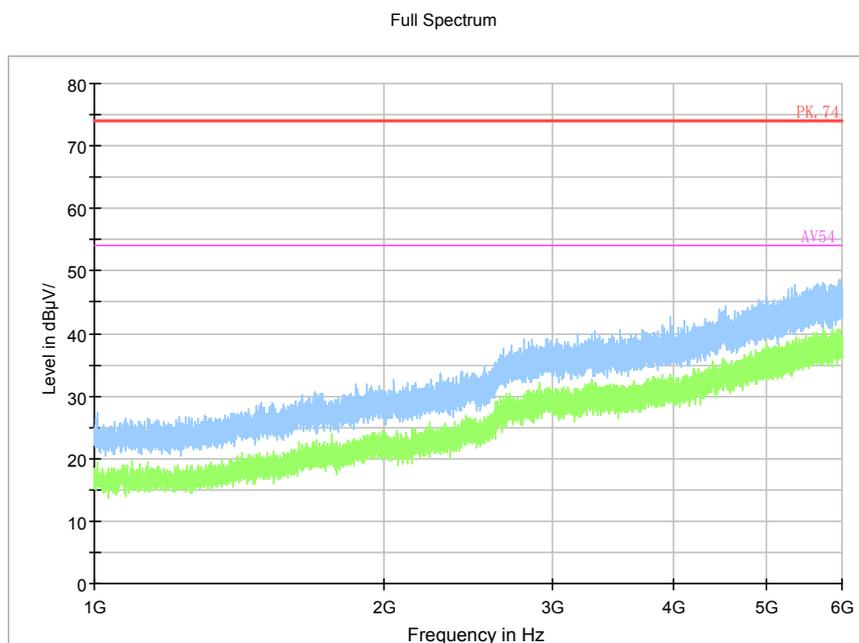
Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity
52.764000	32.47	40.00	-17.5	49.97	V
53.804500	32.51	40.00	-17.6	50.11	V
78.568500	30.52	40.00	-23.6	54.12	H
173.375000	30.44	43.50	-20.5	50.94	H
179.080000	32.71	43.50	-20.2	52.91	H
891.953500	19.82	46.00	-1.7	21.52	V

EUT + 2#USB Cable1+4#Battery +Laptop: refer to Pic7, Pic8, Pic9



Pic7. Radiated emission(30MHz – 1GHz)

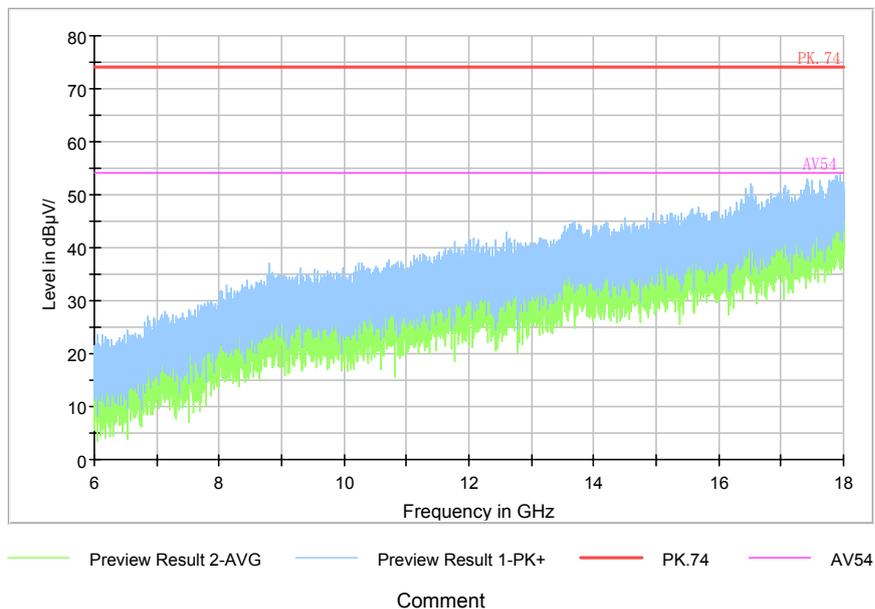
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic8. Radiated emission (1GHz –6GHz)

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

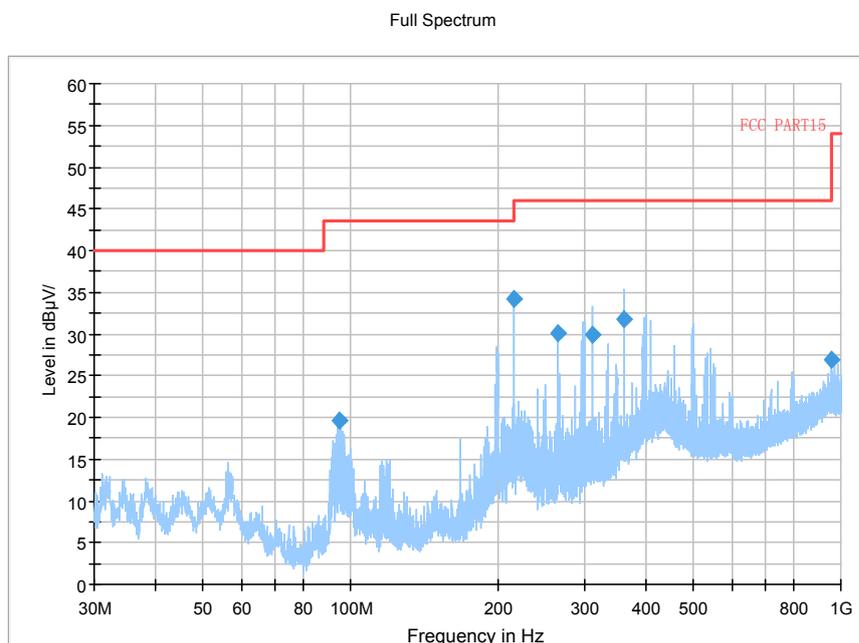
Full Spectrum



Pic9. Radiated emission (6GHz –18GHz)

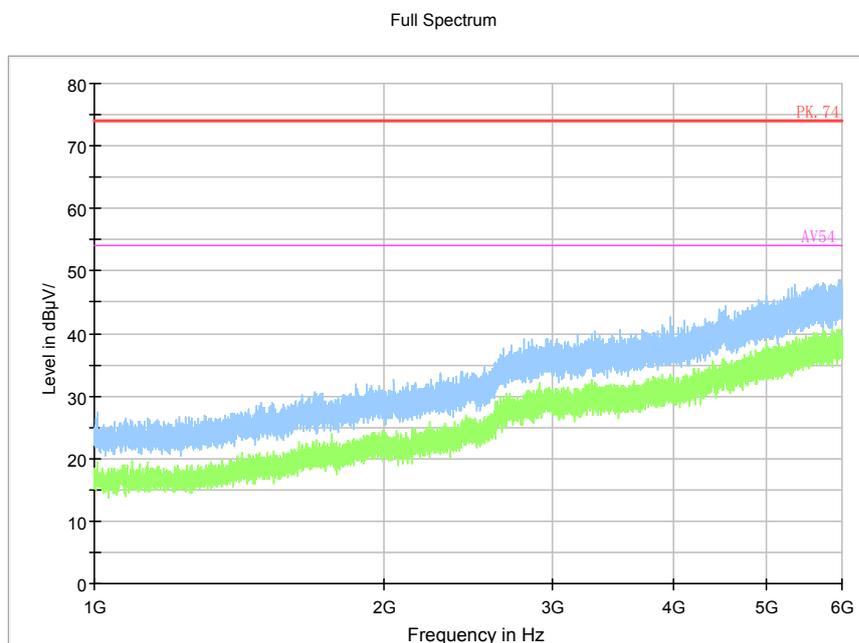
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT + 3#USB Cable2+4#Battery +Laptop: refer to Pic10, Pic11, Pic12



Pic10. Radiated emission(30MHz – 1GHz)

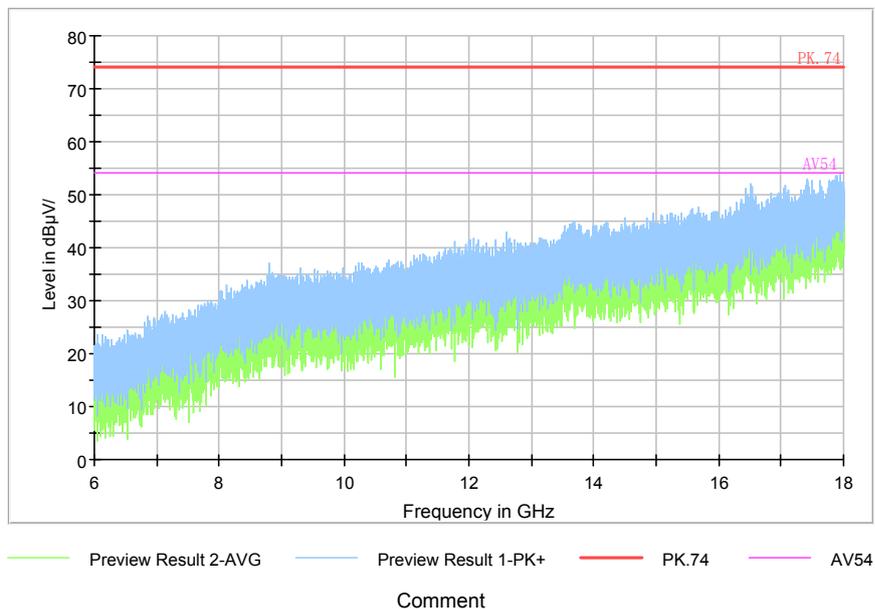
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic11. Radiated emission (1GHz –6GHz)

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

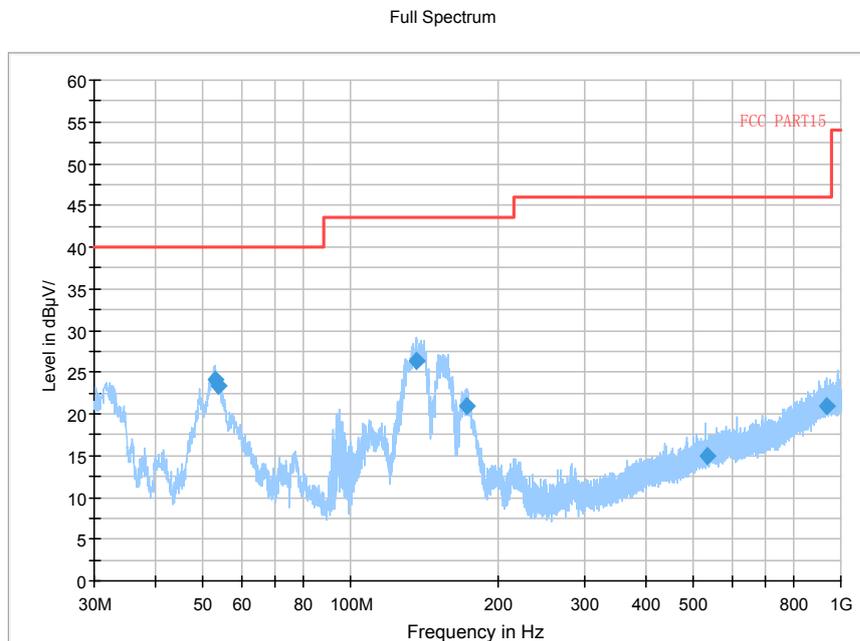
Full Spectrum



Pic12. Radiated emission (6GHz –18GHz)

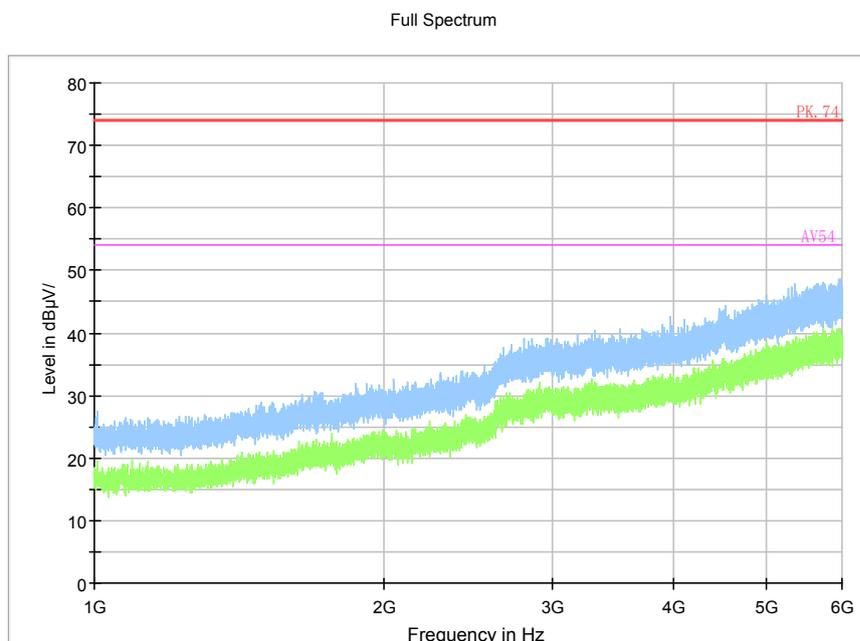
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT+4#Battery +5#Charger1+8#K87CC base assembly+9# Magnetic line of force:
 refer to Pic13, Pic14, Pic15



Pic13. Radiated emission(30MHz – 1GHz)

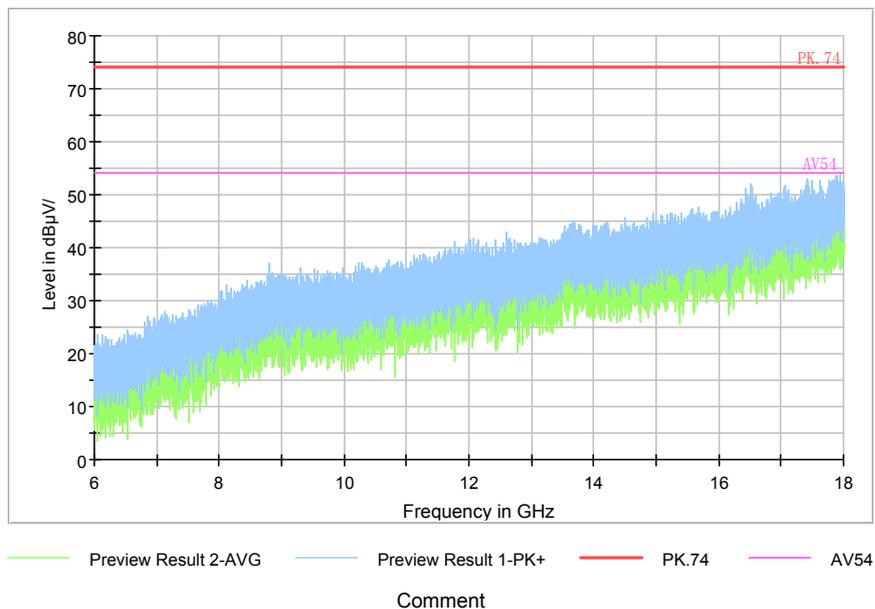
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic14. Radiated emission (1GHz –6GHz)

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

Full Spectrum

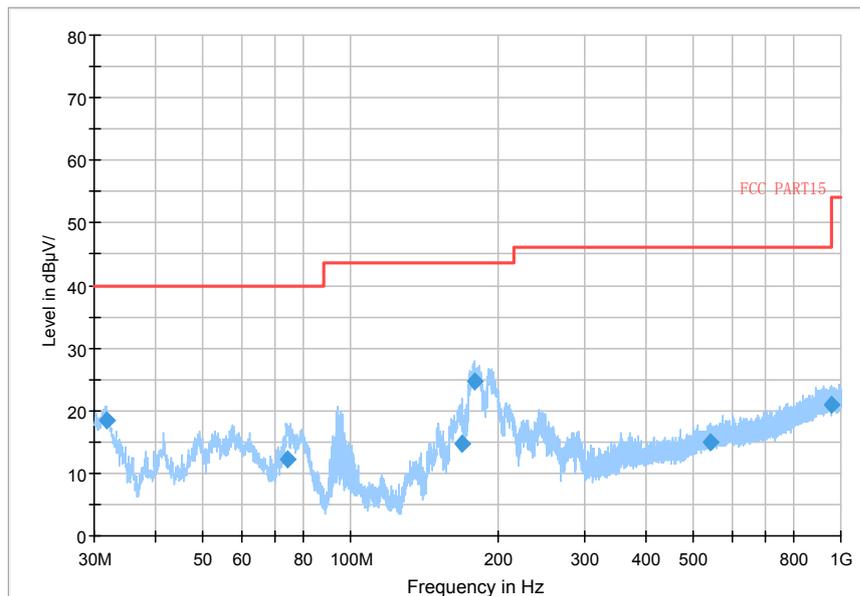


Pic15. Radiated emission (6GHz –18GHz)

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

EUT +4#Battery +6#Charger2+8#K87CC base assembly+9# Magnetic line of force:
 refer to Pic16, Pic17, Pic18

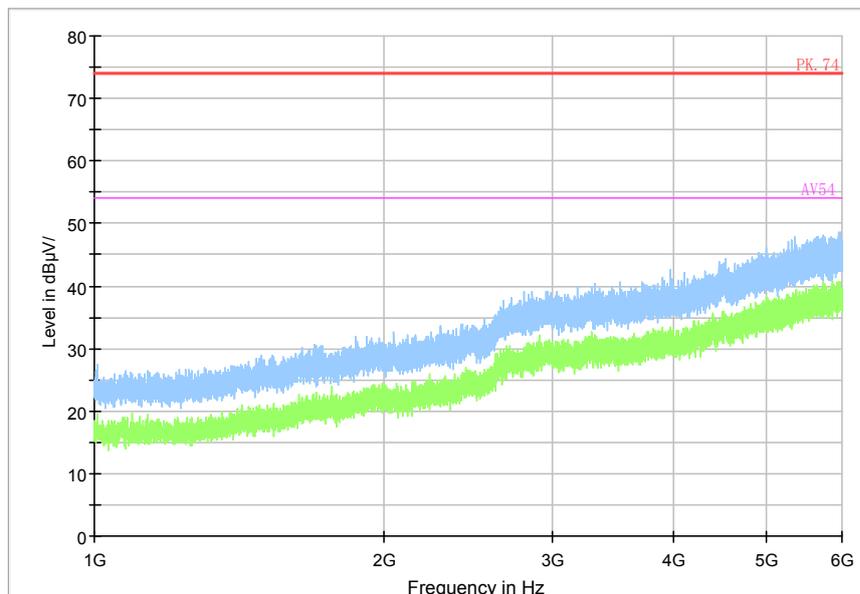
Full Spectrum



Pic16. Radiated emission(30MHz – 1GHz)

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

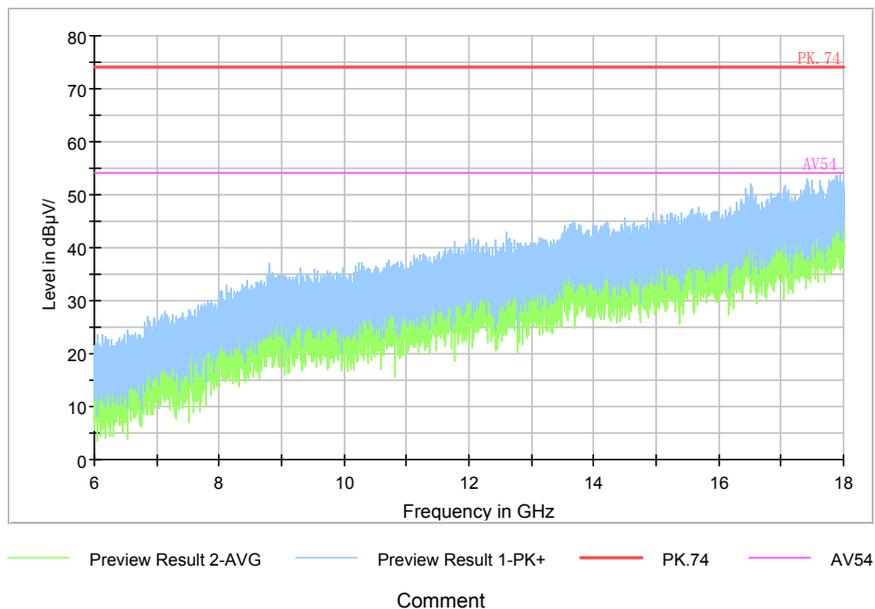
Full Spectrum



Pic17. Radiated emission (1GHz –6GHz)

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

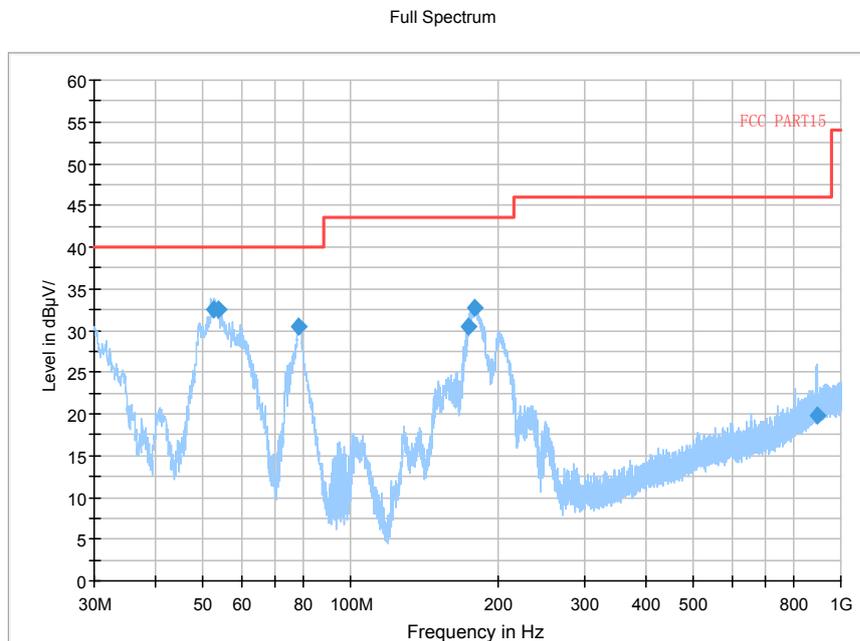
Full Spectrum



Pic18. Radiated emission (6GHz –18GHz)

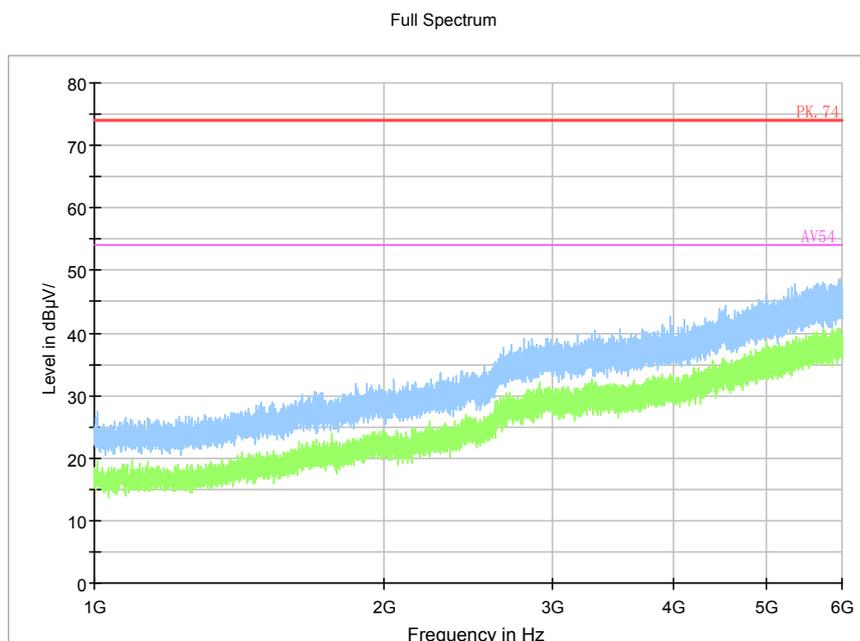
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT +4#Battery +7#Charger3+8#K87CC base assembly+9# Magnetic line of force:
 refer to Pic19, Pic20, Pic21



Pic19. Radiated emission(30MHz – 1GHz)

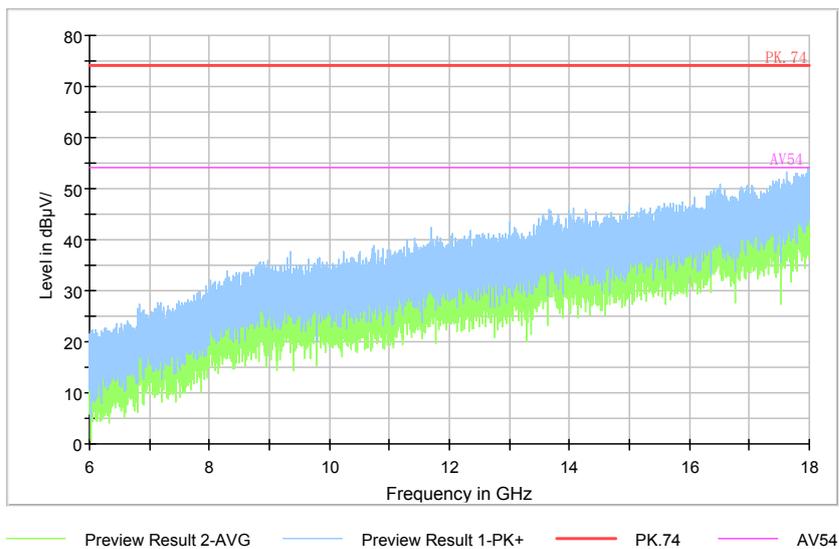
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic20. Radiated emission (1GHz –6GHz)

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

Full Spectrum



Comment

Pic21. 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. 2021	20th Aug. 2020
3	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	5th Sep. 2021	6th Sep. 2016
4	ESR3 EMI test receiver	R&S	102361	21th Apr. 2021	20th Apr. 2020
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. 2021	20th Aug. 2020
7	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	25th Mar. 2021	25th Mar. 2020
8	PS2000 Turn Table	FRANKONIA	-----	-----	-----
9	MA260 Antenna Master	FRANKONIA	-----	-----	-----
10	EMC32EMI test software	R&S	-----	-----	-----

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