



Certificate Number: 5055.02

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# TEST REPORT

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Report No.: SRTC2023-9003(F)-0045  
Product Name: Smart phone  
Applicant: SHARP CORPORATION  
Manufacturer: SHARP CORPORATION  
Specification: FCC Part15B (Certification)  
(2023 edition)  
ANSI C63.4-2014  
FCC ID: APYHRO00329

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

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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  
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Email: liujiaf@srtc.org.cn  
Designation Number: CN1267  
Registration number: 239125

### 1.3 Applicant's details

Company: SHARP CORPORATION  
Address: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan  
City: Osaka  
Country or Region: Japan

### 1.4 Manufacturer's details

Company: SHARP CORPORATION  
Address: 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan  
City: Osaka  
Country or Region: Japan

## 1.5 Application details

Date of reception of test sample: 22<sup>th</sup> December 2023

Date of test: 22<sup>th</sup> December 2023 to 16<sup>th</sup> January 2024

## 1.6 Reference specification

FCC Part 15B, 2023 (Certification)

ANSI C63.4-2014

## 1.7 Information of EUT

### 1.7.1 General information

Name of EUT	Smart phone
FCC ID	APYHRO00329
Frequency Range	GSM: GSM850 / PCS1900 WCDMA: FDD II / FDD V LTE: FDD 2/ FDD 4/ FDD 12/ FDD 17/ TDD 38/ TDD 41 Bluetooth: 2.4~2.48GHz WiFi: 2.412GHz~2.472 GHz 5.15-5.35GHz/5.475-5.725GHz 5.725GHz-5.85GHz
Equipment Class	Class B
Power Supply	Battery or Charger
Extreme Temperature	Lowest: -10°C Highest: +55°C
HW Version	DVT(Remodeled to the equivalent of PVT products)
SW Version	AC060

### 1.7.2 EUT details

Product Name	Model Name	IMEI
Smart phone	APYHRO00329	#1: 004401231570553 #2: 004401231571536 #3: 004401231572070

Multi-vender as follow:

	1st	2nd	3rd
Memory	RH-IXA580AFZZ (Samsung)	RH-IXA621AFZZ (SK_Hynix)	RH-IXA622AFZZ (Micron)
LCD	RUITKB564AFSD (K&D)	RUITKB598AF01 (LCE)	/
Main PCB	QMPWCA518AFZZ (Tripod)	QMPWCA518AFZZ (CMK)	/
ANT PCB	QMPWCA481AFZZ (Tripod)	QMPWCA481AFZZ (Foxconn)	/
USB-FPC	RUITKB452AFZZ (SUMITOMO ELEC)	RUITKB469AFZZ (AKM)	/
FrontKey-FPC	RUITKB453AFZZ (AKM)	RUITKB470AFZZ (SUMITOMO ELEC)	/
SideKey-FPC	RUITKB454AFZZ (AKM)	RUITKB471AFZZ (NOK)	/
MainCamera-FPC	RUITKB599AFZZ (SCC)	RUITKB599AFZZ (C-flax)	/

#1 Sample is with the 1st vender, #2 Sample is with the 2nd vender, #3 Sample is with the 3rd vender. The #1 Sample is fully tested, and #2 Sample is tested for the worst case. #2 Sample and #3 Sample are tested for the USB mode.

### 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 Cable

Manufacturer	Kingpower
Model Number	K201-05130-00

**AE (Auxiliary Equipment) 3#: Battery**

Type	Li-Lon battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.
Model Number	UBATIA310AFN2

**AE (Auxiliary Equipment) 4#: Charger**

Manufacturer	DVE
Model Number	DSA-10PF06-05 FUS 050200
S/N	/
Input Voltage	100V-240V AC
Output Voltage	5V/2A

**AE (Auxiliary Equipment) 5#: Headset**

Manufacturer	Ambibio
Model Number	AB-HI02JS (RPHOEA007AFZZ)

**1.7.4 Test mode**

Mode No.	Description of test mode
Mode 1	Rear camera on + GSM/WCDMA/LTE/BT/WLAN receiver
Mode 2	Front camera on + GSM/WCDMA/LTE/BT/WLAN receiver
Mode 3	USB copy(EUT with PC)
Mode 4	Mp4 + GSM/WCDMA/LTE/BT/WLAN receiver
Mode 5	Mp3 + GSM/WCDMA/LTE/BT/WLAN receiver

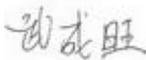
Note1: All the tests shown in this test report are performed when the EUT working on Mode 1 and Mode 3.

Note2: AE1# Laptop was selected by testing laboratory and was only cooperated with this test, not for sale.

## 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.Guoyu Vice director of the test department  
Tested By: Mr.Wu Chengwang  	Issued date:  <b>2024.01.18</b>

## 2.2 Test result

### 2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
20.5°C	38.8%	100.8kPa

Test Setup with laptop:

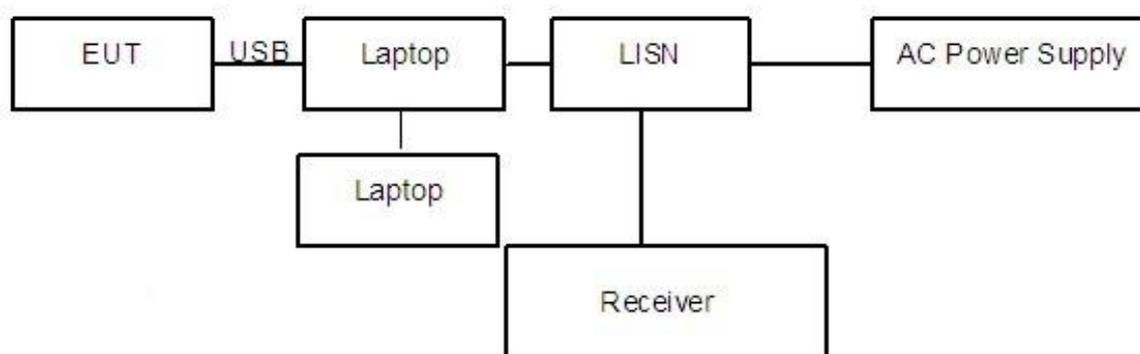


Figure 1

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:

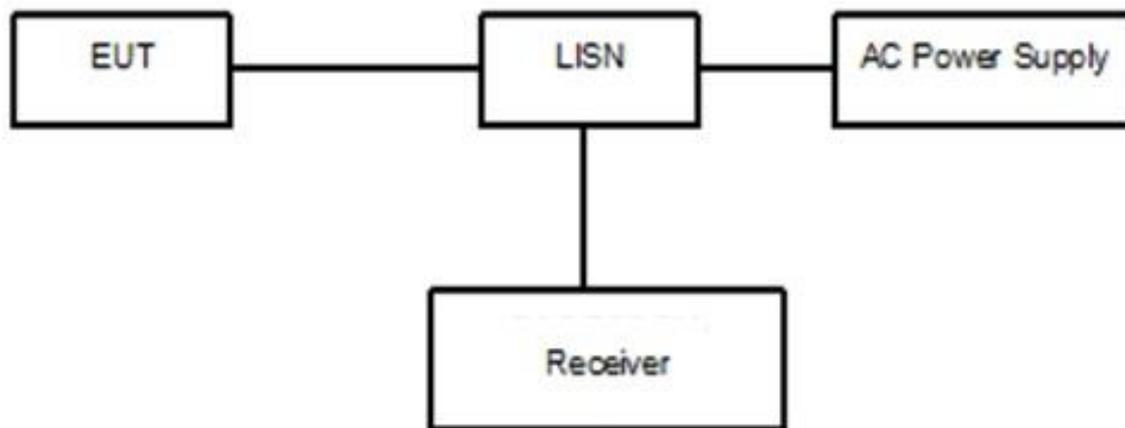


Figure 2

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. The accessories of the EUT are connected with the EUT such as headset etc. Open the following functions of EUT: GPS, Camera 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  $L_{cable}+ATT+VDF$  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:  $(31.26 \text{ dB}\mu\text{V}) = (1.46 \text{ dB}\mu\text{V}) + (29.8 \text{ dB})$ , the corresponding frequency is 0.171322MHz.

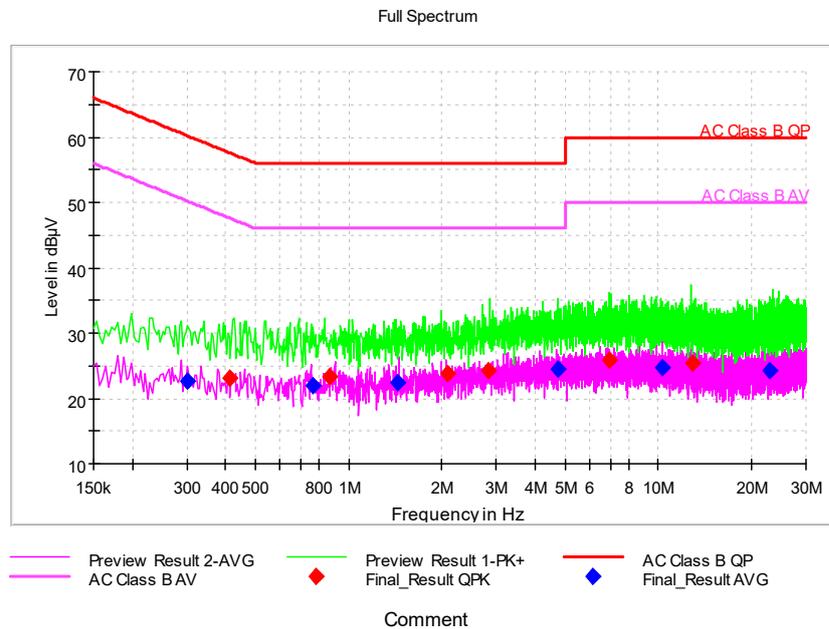
Limit:

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:

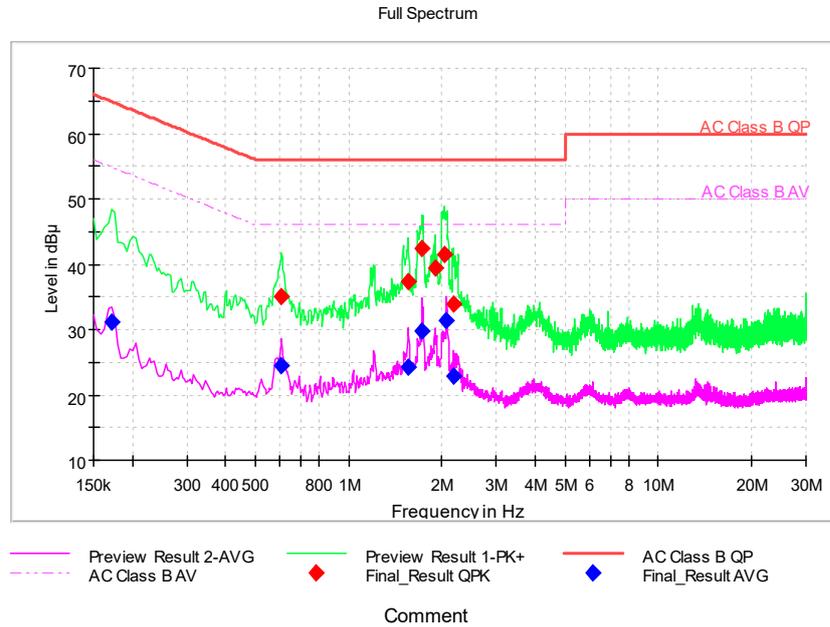
Noise Level of the Measuring Instrument



Pic1. Conducted emission L and N Line

120VAC:

1#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset:

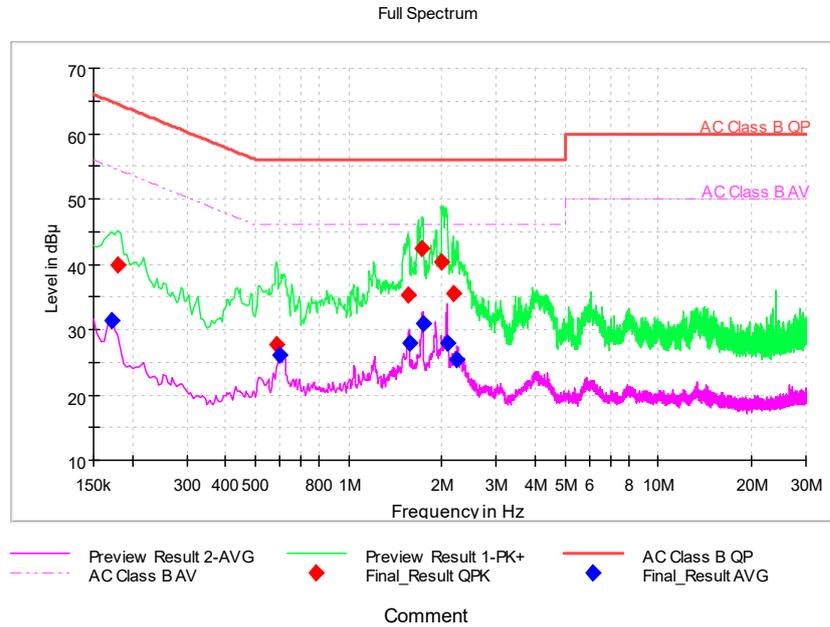


Pic2. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.171322	---	31.26	54.90	23.64	L1	29.8	---	1.46
0.606279	---	24.56	46.00	21.44	L1	29.8	---	-5.24
0.606279	34.97	---	56.00	21.03	L1	29.8	5.17	---
1.552950	---	24.23	46.00	21.77	L1	29.9	---	-5.67
1.552950	37.31	---	56.00	18.69	L1	29.9	7.41	---
1.727786	42.35	---	56.00	13.65	L1	29.9	12.45	---
1.727786	---	29.87	46.00	16.13	L1	29.9	---	-0.03
1.906886	39.46	---	56.00	16.54	L1	29.9	9.56	---
2.034814	41.53	---	56.00	14.47	L1	29.9	11.63	---
2.073193	---	31.35	46.00	14.65	N	29.9	---	1.45
2.175536	---	22.85	46.00	23.15	N	29.9	---	-7.05
2.179800	33.92	---	56.00	22.08	L1	29.9	4.02	---

240VAC:

1#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset:

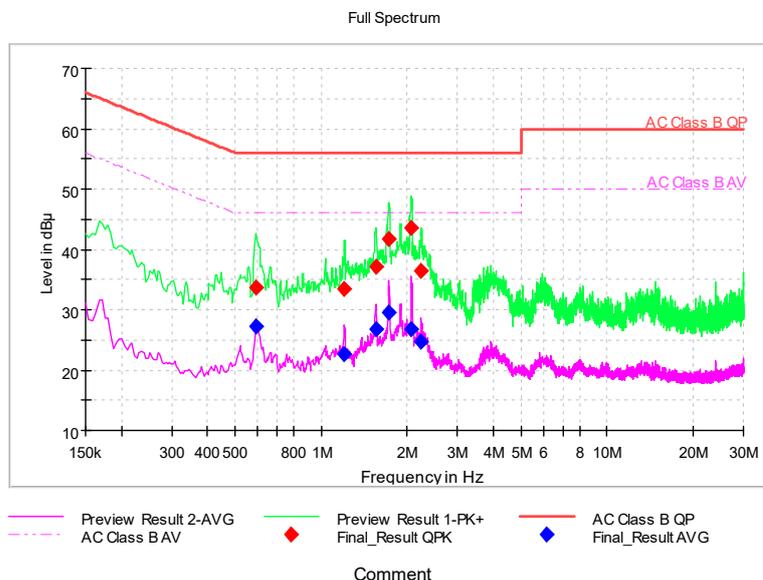


Pic3. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.171322	---	31.42	54.90	23.48	L1	29.8	---	1.62
0.179850	39.89	---	64.49	24.60	L1	29.8	10.09	---
0.584957	27.76	---	56.00	28.24	L1	29.8	-2.04	---
0.597750	---	26.04	46.00	19.96	L1	29.8	---	-3.76
1.548686	35.27	---	56.00	20.73	L1	29.9	5.37	---
1.565743	---	27.97	46.00	18.03	L1	29.9	---	-1.93
1.732050	42.42	---	56.00	13.58	L1	29.9	12.52	---
1.740579	---	30.99	46.00	15.01	L1	29.9	---	1.09
2.000700	40.34	---	56.00	15.66	L1	29.9	10.44	---
2.085986	---	27.84	46.00	18.16	N	29.9	---	-2.06
2.179800	35.47	---	56.00	20.53	L1	29.9	5.57	---
2.243764	---	25.38	46.00	20.62	N	29.9	---	-4.52

240VAC:

2#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset:

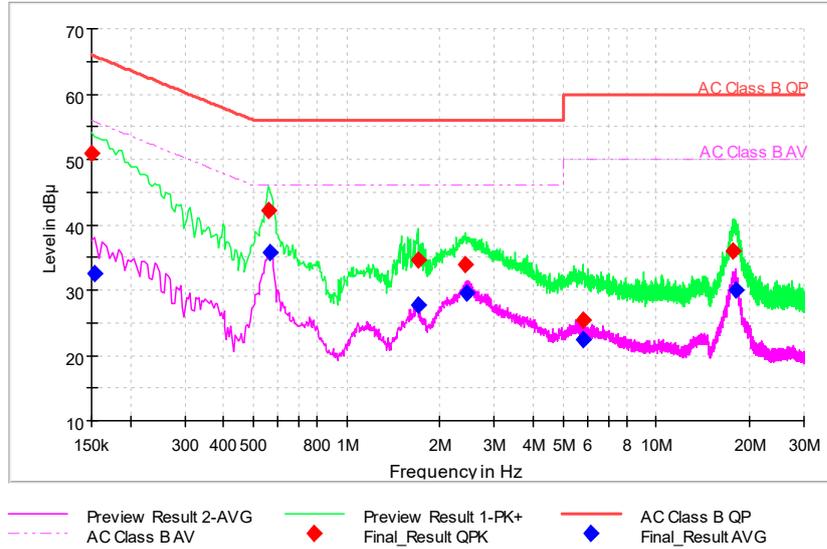


Pic4. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.589222	33.66	---	56.00	22.34	L1	29.8	3.86	---
0.593486	---	27.30	46.00	18.70	L1	29.8	---	-2.5
1.207543	---	22.69	46.00	23.31	L1	29.9	---	-7.21
1.207543	33.45	---	56.00	22.55	L1	29.9	3.55	---
1.548686	---	26.76	46.00	19.24	L1	29.9	---	-3.14
1.557214	37.17	---	56.00	18.83	L1	29.9	7.27	---
1.719257	41.83	---	56.00	14.17	L1	29.9	11.93	---
1.723522	---	29.48	46.00	16.52	L1	29.9	---	-0.42
2.064664	43.54	---	56.00	12.46	L1	29.9	13.64	---
2.068929	---	26.69	46.00	19.31	N	29.9	---	-3.21
2.239500	---	24.79	46.00	21.21	N	29.9	---	-5.11
2.243764	36.48	---	56.00	19.52	L1	29.9	6.58	---

1#EUT + 2#USB Cable+3#Battery +5#Headset +1#Laptop:

Full Spectrum

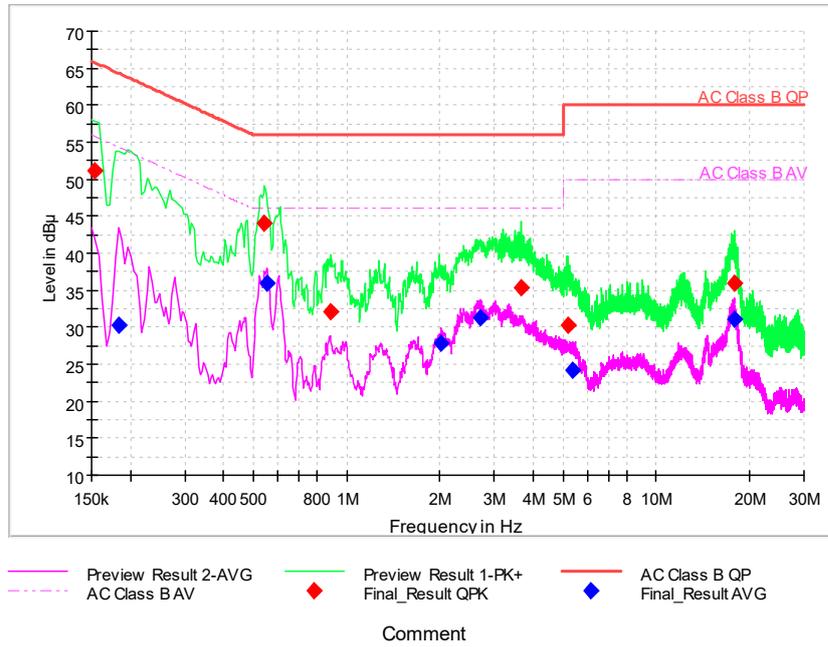


Comment

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)
0.150000	50.88	---	66.00	15.12	L1	29.8	21.08	---
0.154264	---	32.43	55.77	23.34	L1	29.8	---	2.63
0.559372	42.09	---	56.00	13.91	L1	29.8	12.29	---
0.563636	---	35.76	46.00	10.24	L1	29.8	---	5.96
1.697936	---	27.67	46.00	18.33	L1	29.9	---	-2.23
1.697936	34.58	---	56.00	21.42	L1	29.9	4.68	---
2.414336	33.80	---	56.00	22.20	L1	29.9	3.9	---
2.444186	---	29.47	46.00	16.53	L1	29.9	---	-0.43
5.778857	25.50	---	60.00	34.50	L1	30.0	-4.5	---
5.791650	---	22.49	50.00	27.51	N	30.0	---	-7.51
17.774293	35.88	---	60.00	24.12	L1	30.1	5.78	---
18.098379	---	30.04	50.00	19.96	N	30.1	---	-0.06

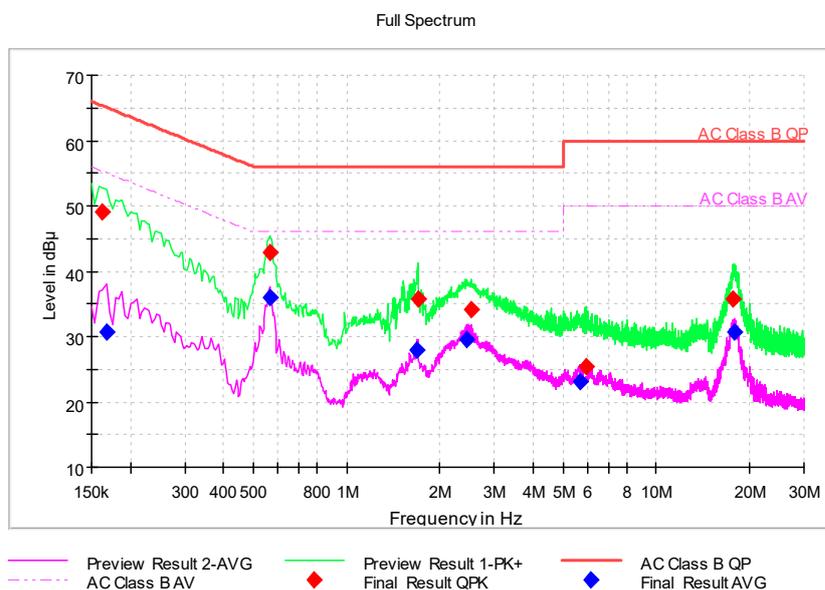
2#EUT + 2#USB Cable+3#Battery +5#Headset +1#Laptop:



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)
0.154278	51.16	---	65.77	14.61	N	29.7	21.46	---
0.184152	---	30.37	54.30	23.93	L1	29.7	---	0.67
0.542337	44.03	---	56.00	11.97	N	29.7	14.33	---
0.555124	---	35.96	46.00	10.04	L1	29.7	---	6.26
0.891981	32.19	---	56.00	23.81	N	29.7	2.49	---
2.022044	---	27.88	46.00	18.12	L1	29.8	---	-1.92
2.691536	---	31.30	46.00	14.70	L1	29.8	---	1.5
3.668039	35.27	---	56.00	20.73	N	29.8	5.47	---
5.160572	30.33	---	60.00	29.67	N	29.8	0.53	---
5.360957	---	24.27	50.00	25.73	N	29.8	---	-5.53
17.787086	---	31.07	50.00	18.93	L1	29.9	---	1.17
17.889429	35.95	---	60.00	24.05	L1	29.9	6.05	---

3#EUT + 2#USB Cable+3#Battery +5#Headset +1#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)
0.162748	49.21	---	65.32	16.25	L1	29.8	19.41	---
0.167069	---	30.84	55.11	24.35	L1	29.8	---	1.04
0.563641	---	35.79	46	10.11	L1	29.8	---	5.99
0.563639	42.93	---	56	13.13	L1	29.8	13.13	---
1.693675	---	28.16	46	17.96	L1	29.9	---	-1.74
1.697942	35.75	---	56	20.19	L1	29.9	5.85	---
2.452719	---	29.64	46	16.39	L1	29.9	---	-0.26
2.520947	34.27	---	56	21.86	L1	29.9	4.37	---
5.676518	---	23.31	50	26.96	N	30	---	-6.69
5.906789	25.4	---	60	34.57	L1	30	-4.6	---
17.714578	35.5	---	60	24.3	L1	30.1	5.4	---
17.978966	---	30.64	50	19.23	N	30.1	---	0.54

## 2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
20.5°C	38.8%	100.8kPa

Test Setup:

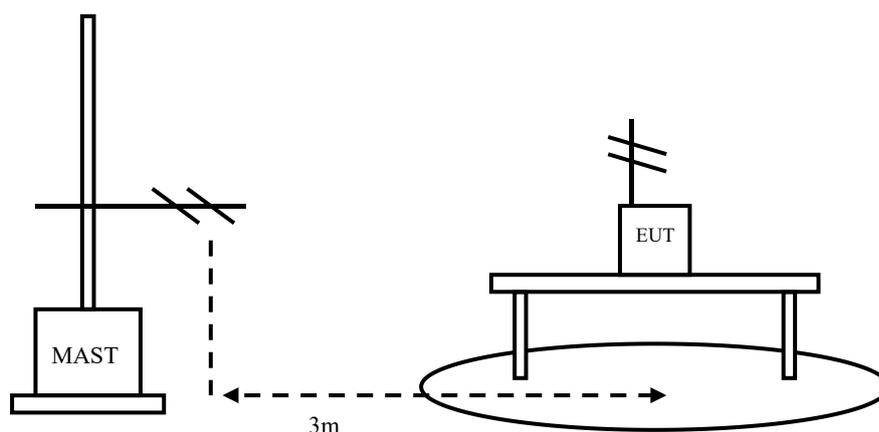


Figure 3

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 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 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 accessories of the EUT are connected with the EUT such as headset etc. The EUT should work in idle mode. Open the following functions of EUT: GPS, Camera 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 $\mu$ 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: (6.65 dB  $\mu$  V/m) = (24.95 dB  $\mu$  V/m) + (-18.3 dB), the corresponding frequency is 48.549500MHz.

1#EUT + 2#USB Cable+3#Battery +5#Headset +1#Laptop:

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
48.549500	6.65	40.00	-18.3	24.95	V
71.981000	15.42	40.00	-21.6	37.02	V
119.987500	26.44	43.50	-19.6	46.04	V
216.009000	14.14	46.00	-18.3	32.44	V
360.014000	28.99	46.00	-14.0	42.99	V
600.000500	27.39	46.00	-8.3	35.69	V

2#EUT + 2#USB Cable+3#Battery +5#Headset +1#Laptop:

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
51.018000	7.4	40.00	-18.4	25.80	V
71.981000	15.51	40.00	-21.6	37.11	V
119.987500	26.42	43.50	-19.6	46.02	V
216.009000	14.16	46.00	-18.3	32.46	V
360.014000	29.09	46.00	-14.0	43.09	V
599.992000	27.32	46.00	-8.3	35.62	V

3#EUT + 2#USB Cable+3#Battery +5#Headset +1#Laptop:

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
51.633000	7.04	40.00	-17.7	24.74	V
55.653500	4.36	40.00	-23.9	22.66	V
167.984500	22.57	43.50	-21.0	44.37	V
269.976000	25.55	46.00	-18.5	42.25	V
503.991500	31.55	46.00	-10.6	42.25	V
647.986500	29.34	46.00	-2.7	37.04	V

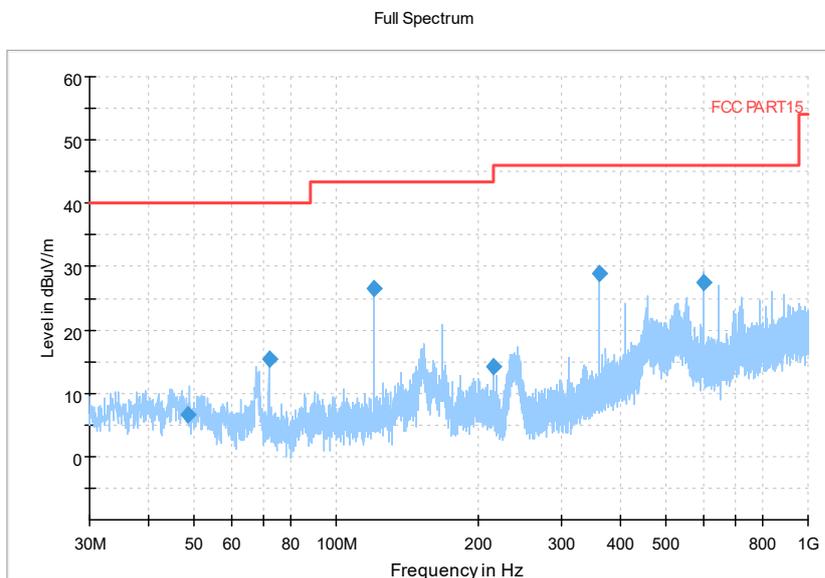
1#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset:

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
31.922500	19.58	40.00	-20.0	39.58	V
84.123000	22.09	40.00	-20.5	42.59	V
143.984000	22.95	43.50	-21.6	44.55	V
173.976500	20.23	43.50	-20.6	40.83	V
519.102500	14.51	46.00	-10.2	24.71	V
948.179500	17.75	46.00	-2.9	20.65	V

2#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset:

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
31.894500	19.59	40.00	-20.1	39.69	V
84.112000	21.99	40.00	-20.5	42.49	V
144.828000	23.81	43.50	-21.6	45.41	V
173.454000	19.99	43.50	-20.6	40.59	V
207.858500	20.31	43.50	-18.6	38.91	V
911.933000	17.31	46.00	-3.2	20.51	V

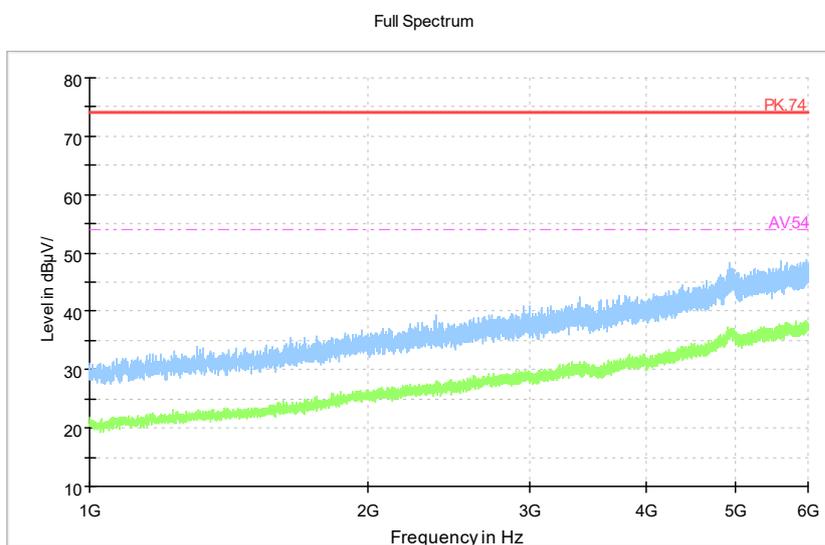
1#EUT + 2#USB Cable+3#Battery +5#Headset+1#Laptop: refer to Pic8, Pic9, Pic10, Pic11



Comment

Pic8. Radiated emission(30MHz – 1GHz)

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



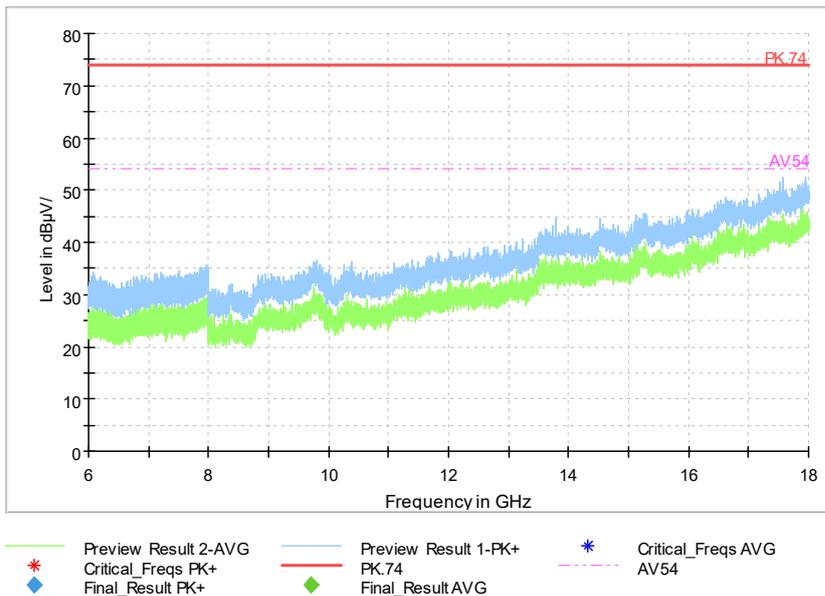
Preview Result 2-AVG    Preview Result 1-PK+    PK.74    AV54

Comment

Pic9. Radiated emission (1GHz –6GHz)

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

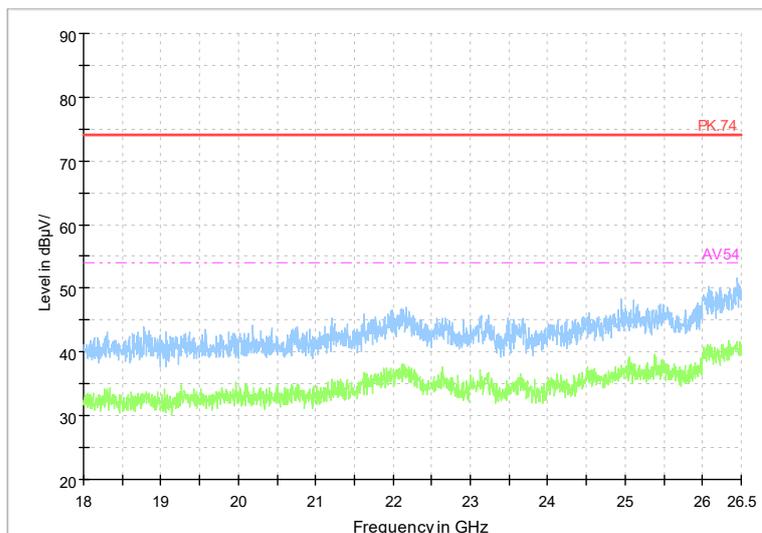
Full Spectrum



Pic10. Radiated emission (6GHz –18GHz)

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

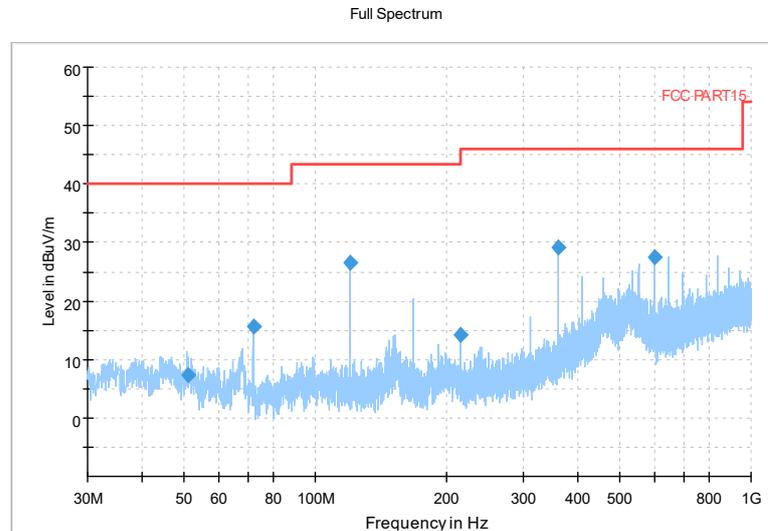
Full Spectrum



Pic11. Radiated emission (18GHz – 26GHz)

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

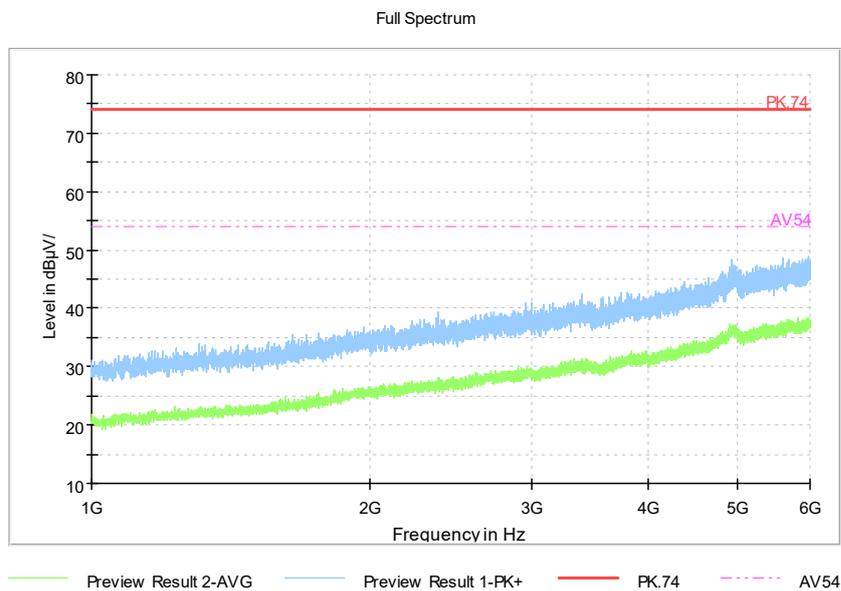
2#EUT + 2#USB Cable+3#Battery +5#Headset+1#Laptop: refer to Pic12, Pic13, Pic14, Pic15



Comment

Pic12. Radiated emission(30MHz – 1GHz)

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

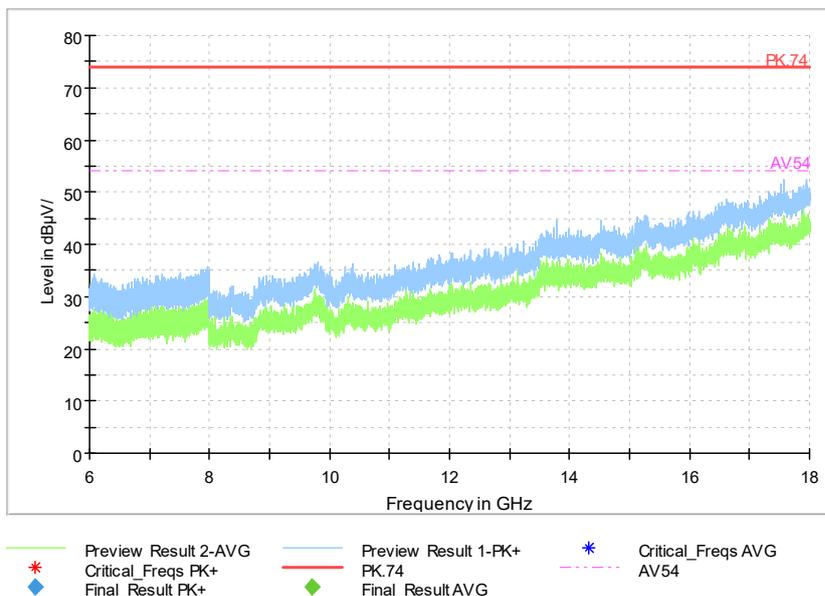


Comment

Pic13. Radiated emission (1GHz –6GHz)

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

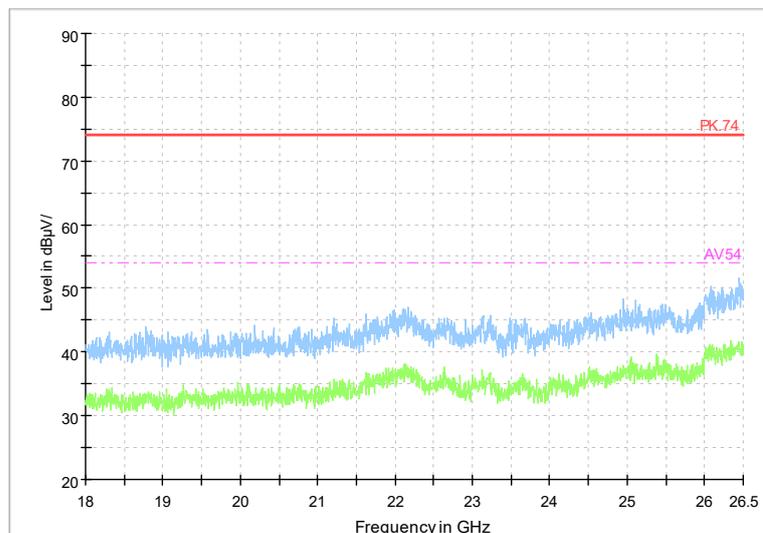
Full Spectrum



Pic14. Radiated emission (6GHz –18GHz)

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

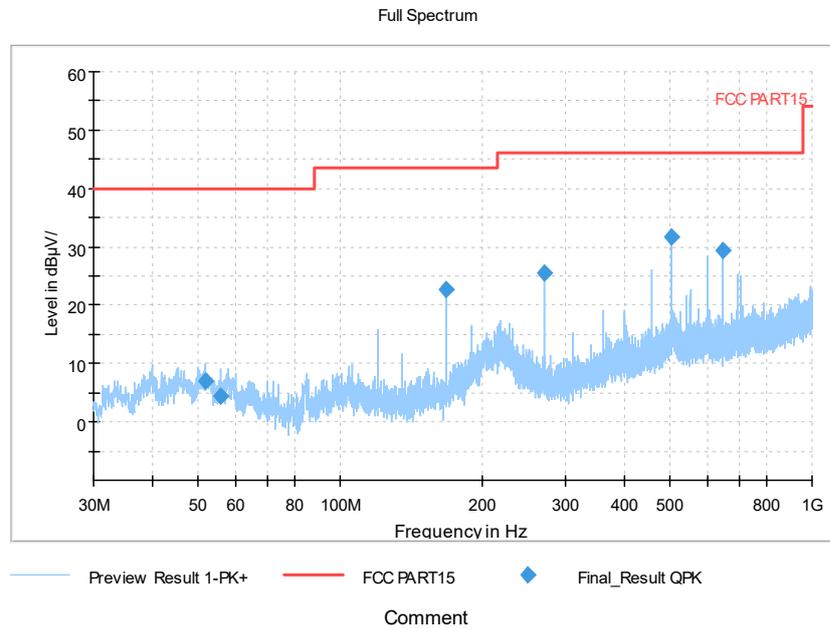
Full Spectrum



Pic15. Radiated emission (18GHz – 26GHz)

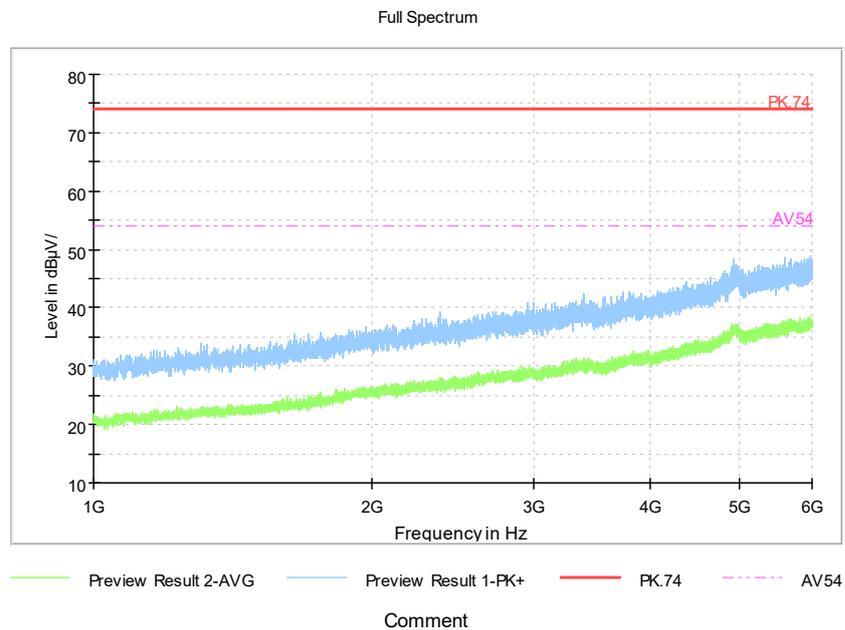
Note: The test data in the graph includes two polarizations: horizontal and vertical.

3#EUT + 2#USB Cable+3#Battery +5#Headset+1#Laptop: refer to Pic16, Pic17, Pic18, Pic19



Pic16. Radiated emission(30MHz – 1GHz)

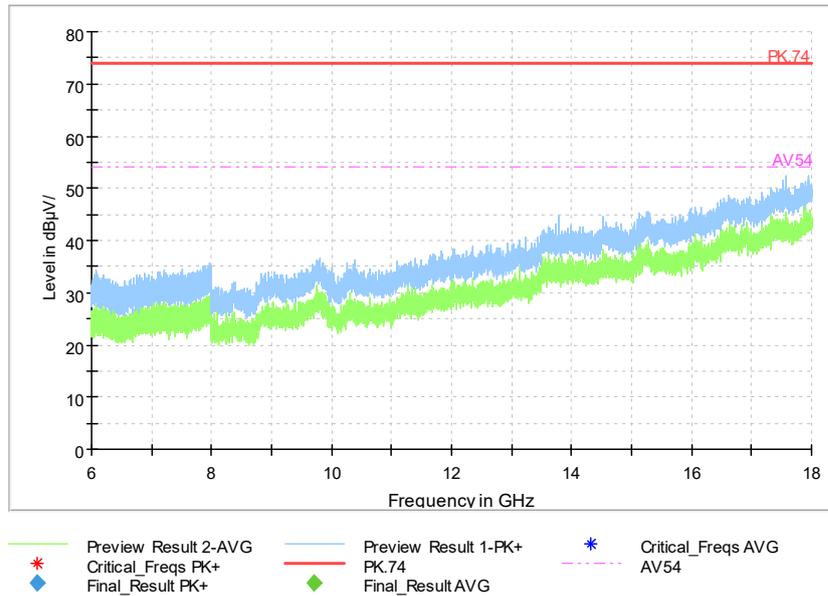
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic17. Radiated emission (1GHz –6GHz)

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

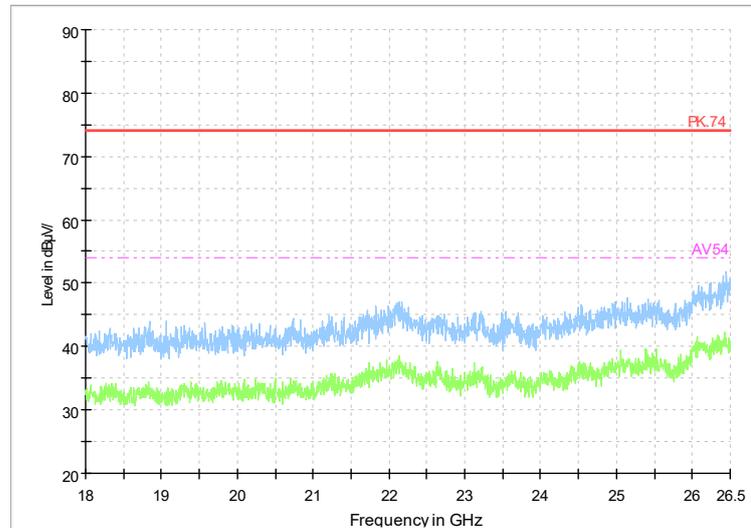
Full Spectrum



Pic18. Radiated emission (6GHz –18GHz)

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

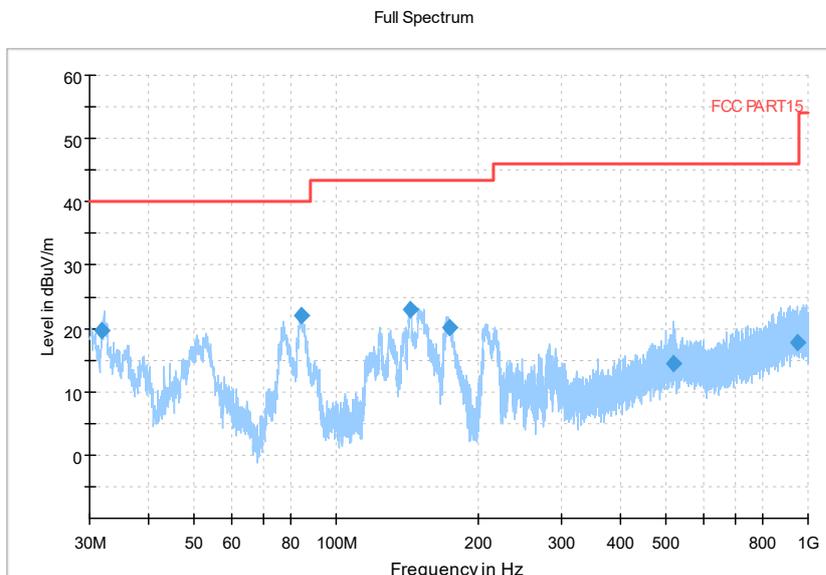
Full Spectrum



Pic19. Radiated emission (18GHz – 26GHz)

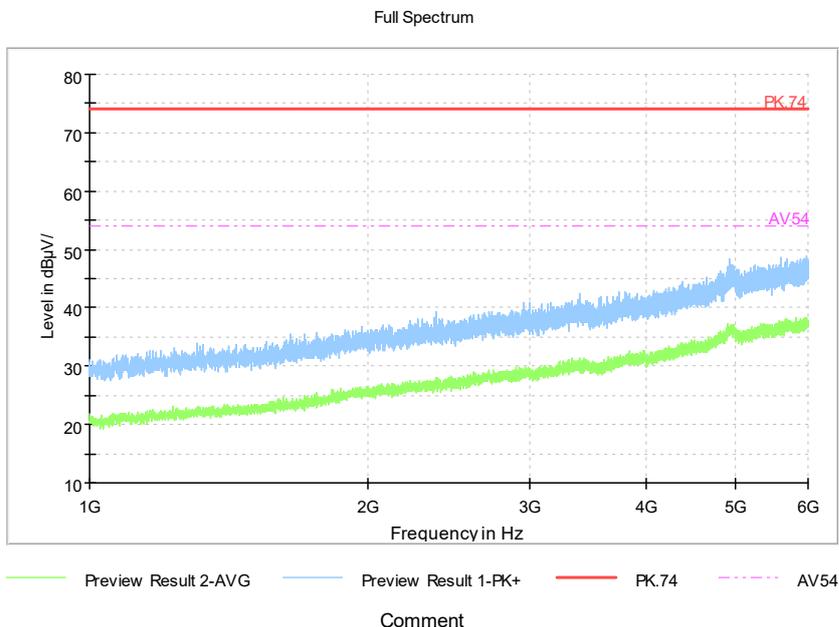
Note: The test data in the graph includes two polarizations: horizontal and vertical.

1#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset: refer to Pic20, Pic21, Pic22, Pic23



Pic20. Radiated emission (30MHz – 1GHz)

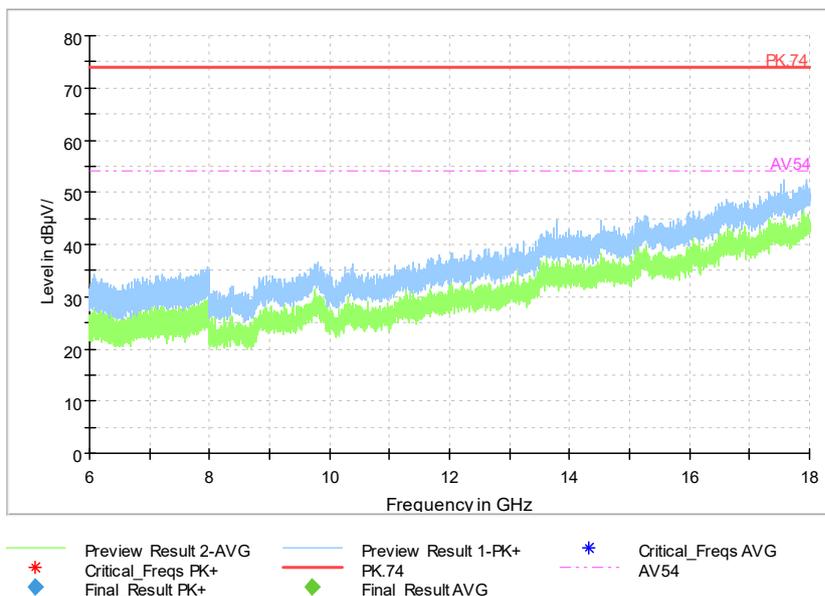
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic21. Radiated emission (1GHz –6GHz)

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

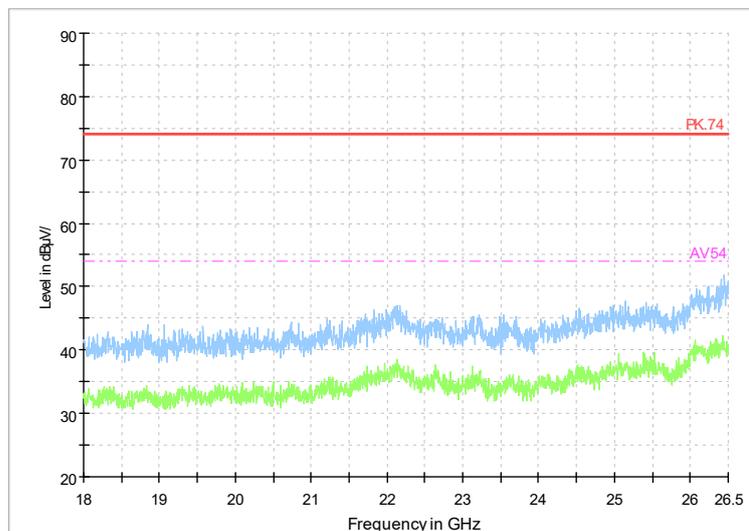
Full Spectrum



Pic22. Radiated emission (6GHz –18GHz)

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

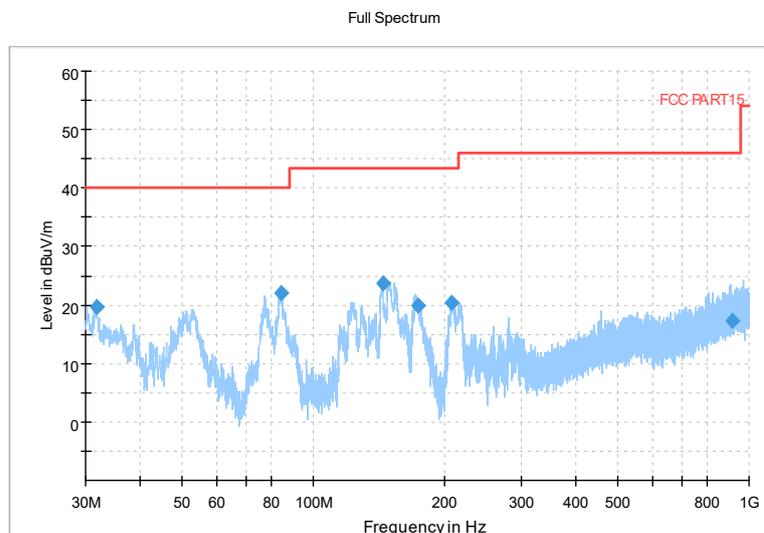
Full Spectrum



Pic23. Radiated emission (18GHz – 26GHz)

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

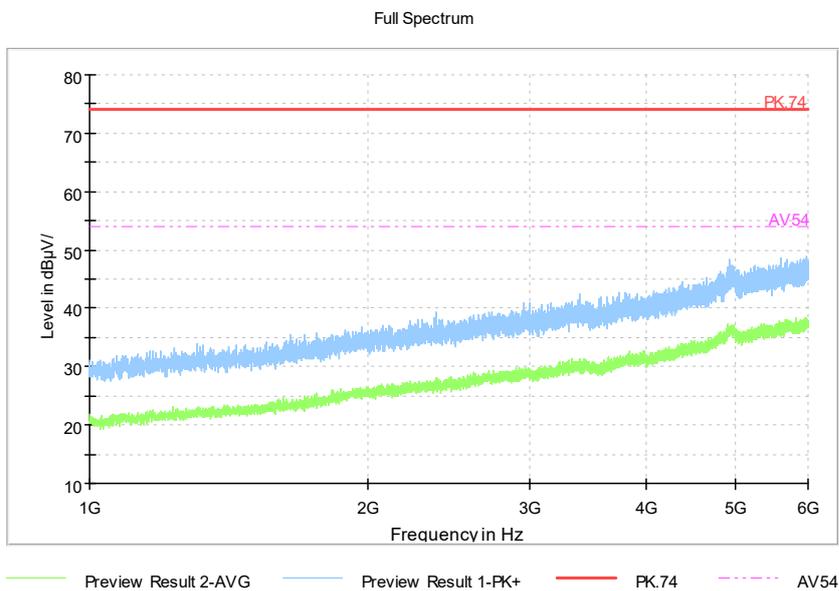
2#EUT + 2#USB Cable+3#Battery+4#Charger+5#Headset: refer to Pic24, Pic25, Pic26, Pic27



Comment

Pic24. Radiated emission (30MHz – 1GHz)

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

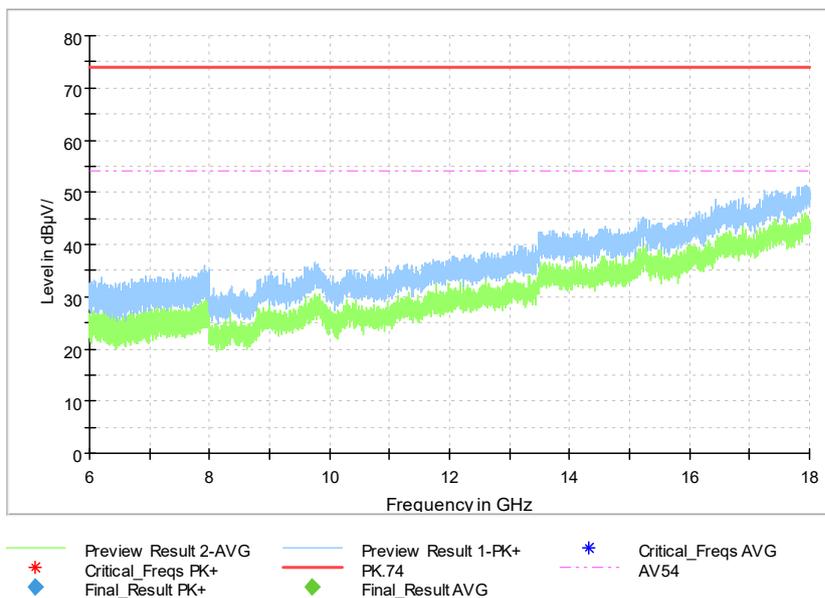


Comment

Pic25. Radiated emission (1GHz –6GHz)

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

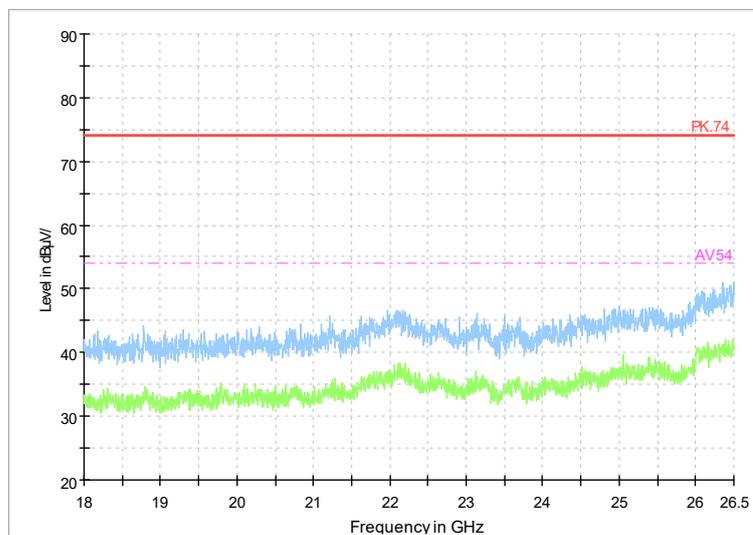
Full Spectrum



Pic26. Radiated emission (6GHz –18GHz)

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

Full Spectrum



Pic27. Radiated emission (18GHz – 26GHz)

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	-----	2028.09.05	2023.09.05
2	ESW EMI test receiver	R&S	101574	2024.03.06	2023.03.06
3	ESR3 EMI test receiver	R&S	102361	2024.03.06	2023.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	2027.03.25	2022.03.25
5	VULB 9163 Ultra log test antenna	schwarzbeck	727	2025.05.28	2023.05.28
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2025.07.20	2023.07.20
7	SAS-574 Horn Antenna	schwarzbeck	535	2025.05.12	2023.05.12
8	ENV216 AMN	R&S	101881	2024.06.21	2023.06.21
9	EMC32EMI test software	R&S	V10	-----	-----

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