
TEST REPORT

Report No.: SRTC2021-9003(F)-0064
Product Name: Mobile Phone
Model Name: HLTE235E
Applicant: Hisense International Co., Ltd.
Manufacturer: Hisense Communications Co., Ltd.
Specification: FCC Part15B (Certification)
(2021 edition)
ANSI C63.4-2014
FCC ID: 2ADOBHLTE235E

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

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1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

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: Hisense International Co., Ltd.
Address: Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China
City: Qingdao
Country or Region: China
Contacted person: dengtingting
Tel: +86-532-55753708
Email: dengtingting@hisense.com

1.4 Manufacturer's details

Company: Hisense Communications Co., Ltd.
Address: 218 Qianwangang Road, Qingdao Economic & Technological Development Zone, Qingdao, China
City: Qingdao
Country or Region: China
Contacted person: dengtingting
Tel: +86-532-55753708
Email: dengtingting@hisense.com

1.5 Application details

Date of reception of test sample: 03rd Nov. 2021

Date of test: 03rd Nov. 2021 to 17th Nov. 2021

1.6 Reference specification

FCC Part 15B, 2021 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	Mobile Phone
Model Name	HLTE235E
FCC ID	2ADOBHLTE235E
Frequency Range	GSM: GSM850/PCS1900 WCDMA: FDD II/ FDD IV /FDD V LTE: FDD 2/ FDD 4/ FDD 5/ FDD 7/ FDD 12/ FDD 26 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: -30°C Highest: +50°C
Extreme Voltage	Minimum: 3.55V Maximum: 4.35V
HW Version	A563-MB-V1.2A
SW Version	Hisense_HLTE235E_S03_01_01_MX05

1.7.2 EUT details

	Product Name	Model Name	IMEI
EUT	Mobile Phone	HLTE235E	EUT1: 866850050002261 EUT2: 866850050001107

EUT1: Main Supply

Part Name	Model	Supplier(Brand)
FLASH	E64GDSAA2ABE00	SCY
FLASH	KM110SA1064GxA-AAA00WT	Kimtigo
FLASH	E32GCYNB1ABE00	SCY
FLASH	RS512M32LZ4D4ANP-75BT	RAYSON
Battery	LPN385450	Shenzhen Aerospace Electronic Co., Ltd.
Front camera	LH-CFKS235-5MFF-V1	Union Image
The rear main camera	H9B13-KS230BA	Hunan Kingcome Optoelectronic Co., Ltd
Rear Camera1	LH-CFKS235-5MBF-V1	Union Image
Rear Camera1	LH-CFKS235-2MBF-V2	Union Image

EUT2: Secondary Supply

Part Name	Model Name	supplier
FLASH	RS512M32LZ4D4ANP-75BT	RAYSON
FLASH	D4A16G32D2V-DC	SCY
FLASH	KM110SA1032GXA-AAA00WT	Kimtigo
FLASH	D4A16G32D2V-DC	SCY
Battery	LPN385450	Shenzhen Powercome Electronics Co., Ltd.
Front camera	BM15640 V0	Luzhou Imaging Technology Co., Ltd
The rear main camera	BM1A365 V4	Luzhou Imaging Technology Co., Ltd
Rear Camera2	BM15634 V2	Luzhou Imaging Technology Co., Ltd
Rear Camera2	BC12635 V0	Luzhou Imaging Technology Co., Ltd

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Laptop

Manufacturer	Lenovo
Model Number	E40-70
S/N	MP06WE9U
Input Voltage	100V-240V AC

AE (Auxiliary Equipment) 2#: USB Cable

Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.
Model Number	KS235

AE (Auxiliary Equipment) 3#: Battery

Type	Li-Lon
Manufacturer	Shenzhen Aerospace Electronic Co., Ltd.
Model Number	LPN385450

AE (Auxiliary Equipment) 4#: Battery

Type	Li-Lon
Manufacturer	Shenzhen Powercom Electronics Co., Ltd.
Model Number	LPN385450

AE (Auxiliary Equipment) 5#: Charger

Manufacturer	Shenzhen Tianyin Electronics Co., Ltd
Model Number	TPA-46050200UU
Input Voltage	100V-240V AC
Output Voltage	5V DC

AE (Auxiliary Equipment) 6#: Headset

Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.
Model Number	KS235

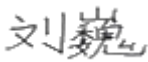
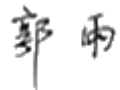

Note2: As the information described in these above tables, the relevant tests have been performed in order to verify in which supply would have the worst features. When the EUT exercised with 2# USB Cable, 3# Battery, 5# Charger, 6# Headset is the worst feature, and record the results in the test report.

Note3: AE1# Laptop 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. Liu Wei Director of the test department 	Checked By: Mr. Guo Yu Vice director of the test department 
Tested by: Mr. Liu Jian Test engineer 	Issued date: 2021.12.06

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
24.5°C	43.6%	101.0kPa

Test Setup with laptop:

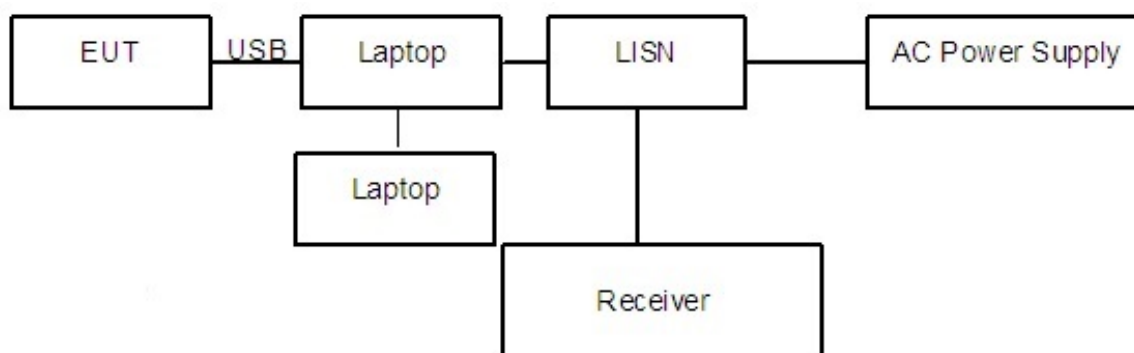


Figure 1

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:

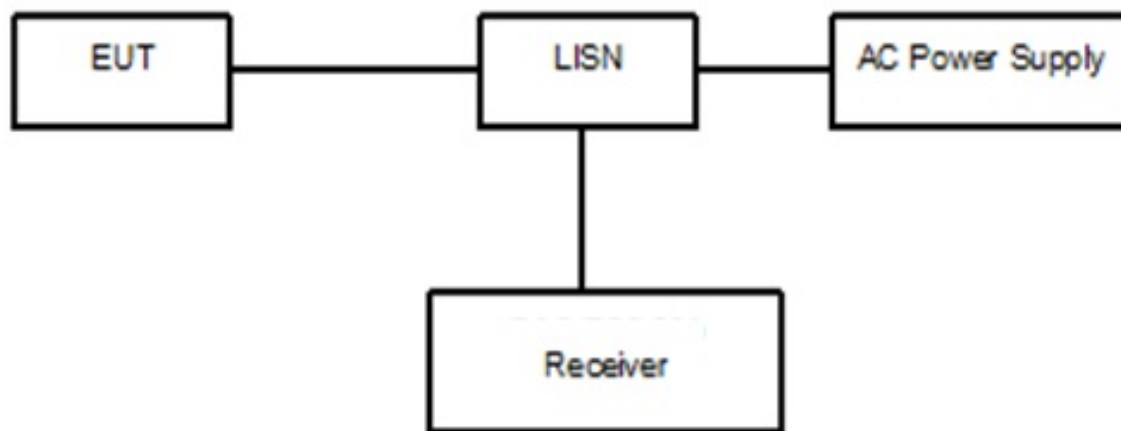


Figure 2

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 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: $(39.43dB\mu V) = (9.73dB\mu V) + (29.7dB)$, the corresponding frequency is 0.162793MHz.

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dB μ V)	Pmea Average (dB μ V)
0.162793	39.43	---	65.32	25.89	L1	29.7	9.73	---

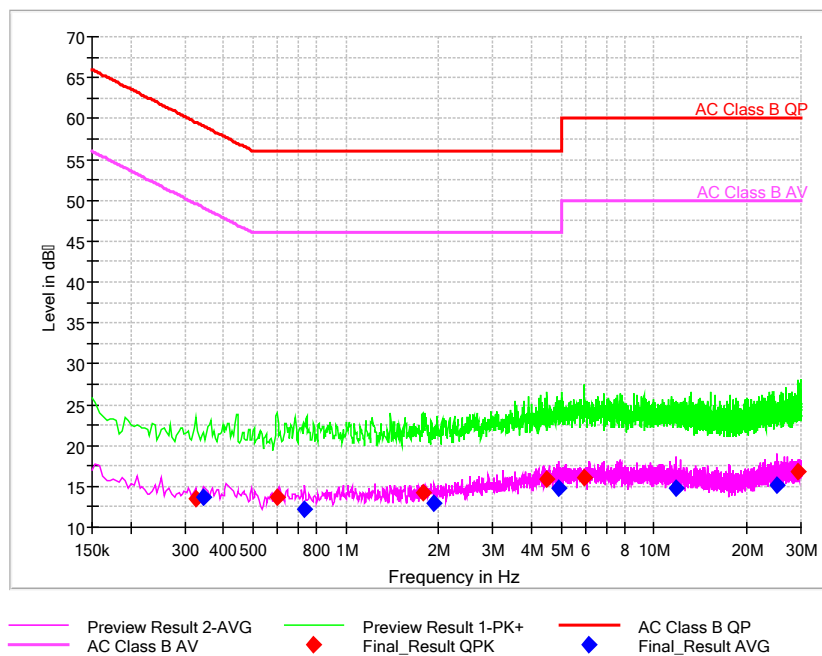
Limit:

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

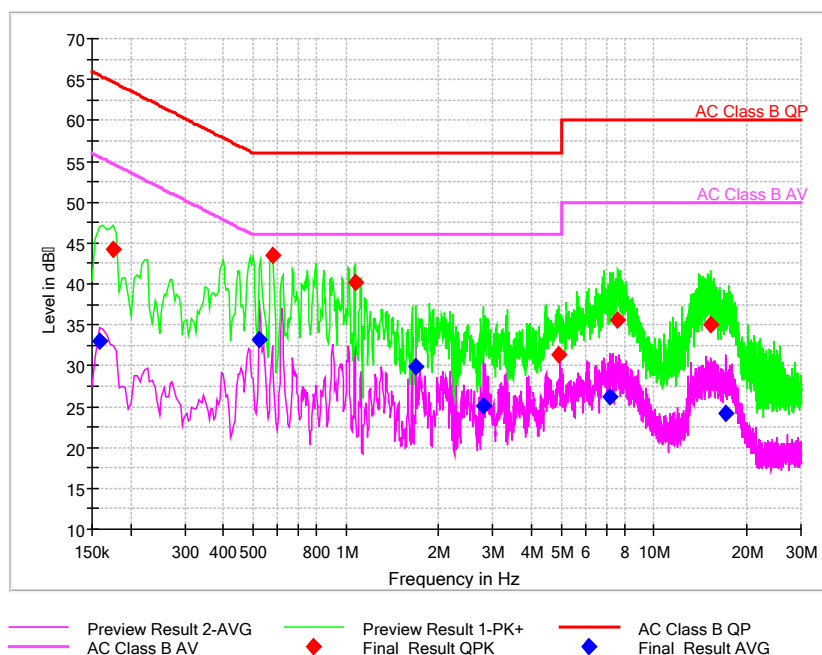
Test result:

Noise Level of the Measuring Instrument



Pic1. Conducted emission L and N Line

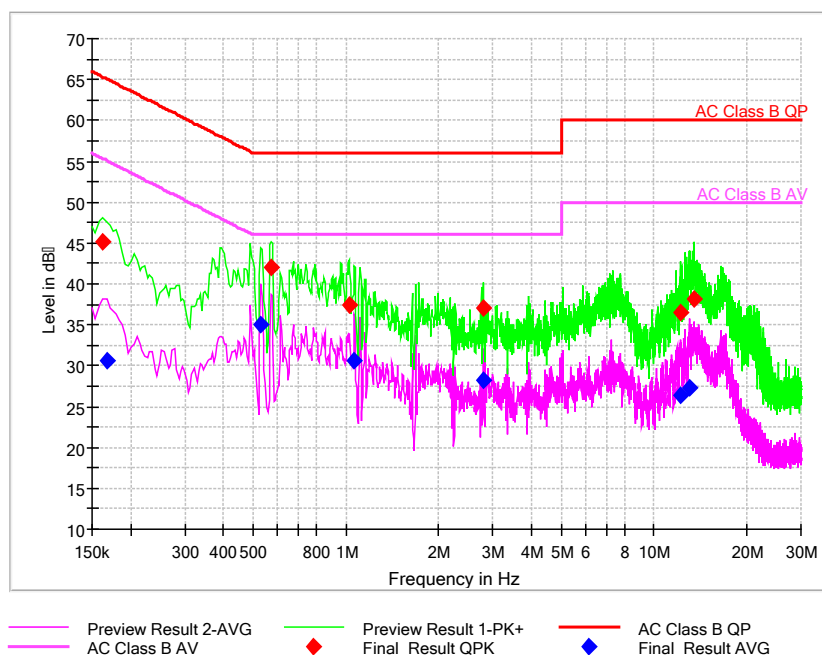
EUT1 + Charger: AC240V



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)
0.158529	---	33	55.54	22.54	N	29.6	---	3.4
0.175586	44.28	---	64.69	20.41	N	29.6	14.68	---
0.525257	---	33.23	46	12.77	L1	29.6	---	3.63
0.576429	43.52	---	56	12.48	N	29.6	13.92	---
1.071086	40.18	---	56	15.82	N	29.7	10.48	---
1.689407	---	29.86	46	16.14	L1	29.7	---	0.16
2.789593	---	25.05	46	20.95	L1	29.7	---	-4.65
4.900414	31.37	---	56	24.63	L1	29.7	1.67	---
7.22445	---	26.25	50	23.75	L1	29.7	---	-3.45
7.646614	35.55	---	60	24.45	L1	29.7	5.85	---
15.23278	34.99	---	60	25.01	L1	29.8	5.19	---
17.13891	---	24.08	50	25.92	L1	29.8	---	-5.72

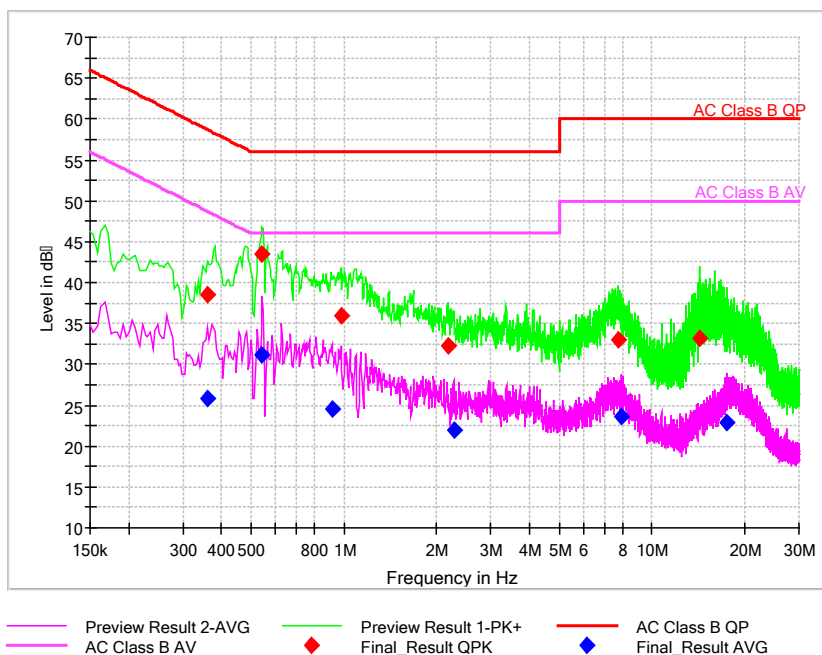
EUT2 + Charger: AC240V



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	45.15	---	65.32	20.17	L1	29.6	15.55	---
0.167057	---	30.6	55.11	24.51	L1	29.6	---	1
0.529521	---	35.04	46	10.96	N	29.6	---	5.44
0.572164	41.97	---	56	14.03	L1	29.6	12.37	---
1.024179	37.36	---	56	18.64	L1	29.7	7.66	---
1.066821	---	30.62	46	15.38	L1	29.7	#VALUE!	0.92
2.793857	37.08	---	56	18.92	L1	29.7	7.38	---
2.793857	---	28.28	46	17.72	N	29.7	---	-1.42
12.21366	---	26.4	50	23.6	L1	29.8	---	-3.4
12.22646	36.43	---	60	23.57	N	29.8	6.63	---
13.1049	---	27.37	50	22.63	N	29.8	---	-2.43
13.42899	38.2	---	60	21.8	L1	29.8	8.4	---

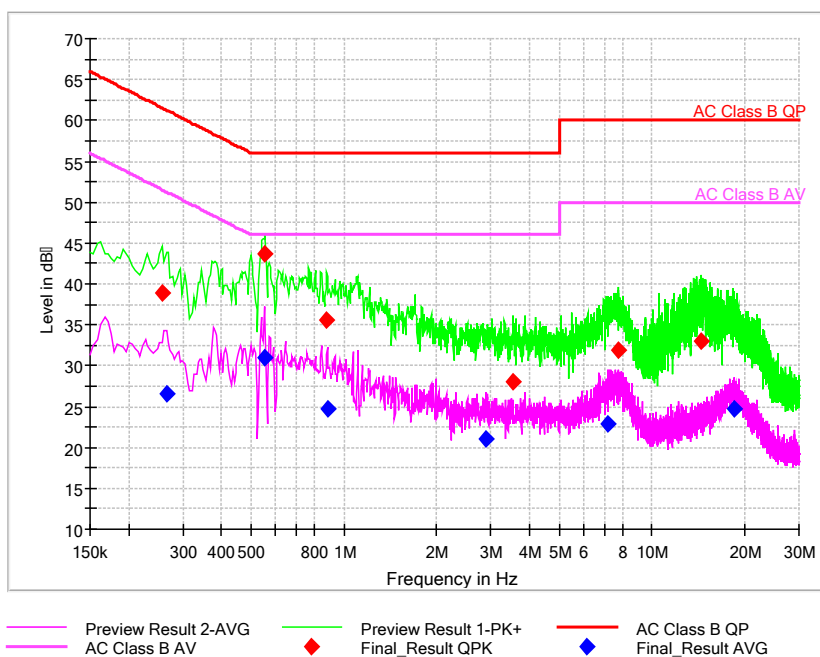
EUT1 + Charger: AC120V



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)
0.35895	---	25.84	48.75	22.91	L1	29.6	---	-3.76
0.35895	38.51	---	58.75	20.24	L1	29.6	8.91	---
0.542314	---	31.2	46	14.8	N	29.6	---	1.6
0.542314	43.46	---	56	12.54	L1	29.6	13.86	---
0.913307	---	24.52	46	21.48	L1	29.7	---	-5.18
0.977271	35.94	---	56	20.06	L1	29.7	6.24	---
2.188329	32.28	---	56	23.72	L1	29.7	2.58	---
2.273614	---	21.89	46	24.11	L1	29.7	---	-7.81
7.736164	33.08	---	60	26.92	L1	29.7	3.38	---
7.928057	---	23.55	50	26.45	N	29.8	---	-6.25
14.31169	33.2	---	60	26.8	N	29.8	3.4	---
17.48859	---	22.89	50	27.11	N	29.8	---	-6.91

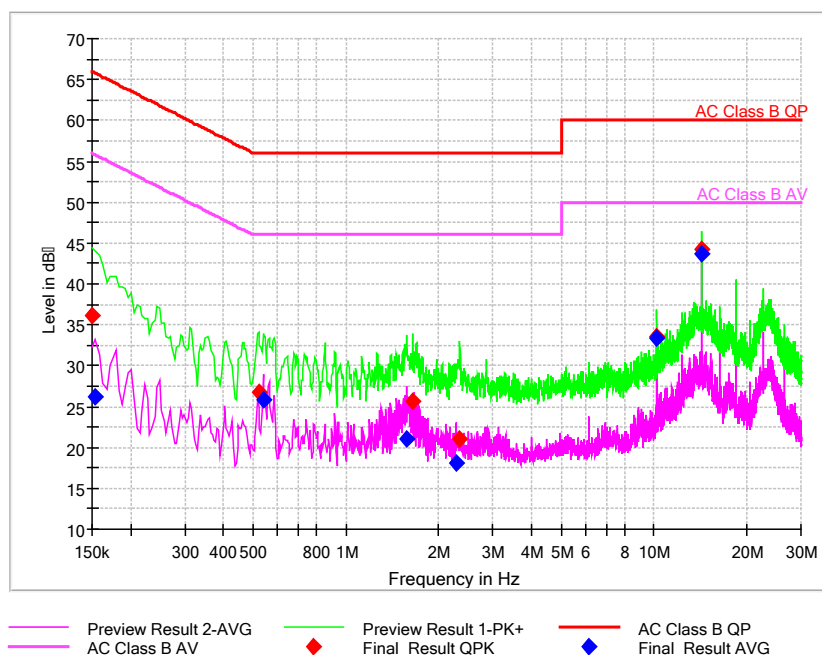
EUT2 + Charger: AC120V



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)
0.256607	38.82	---	61.54	22.72	N	29.6	9.22	---
0.265136	---	26.64	51.27	24.63	N	29.6	---	-2.96
0.550843	---	31.07	46	14.93	N	29.6	---	1.47
0.555107	43.62	---	56	12.38	N	29.6	14.02	---
0.879193	35.61	---	56	20.39	N	29.7	5.91	---
0.883457	---	24.71	46	21.29	N	29.7	---	-4.99
2.879143	---	20.97	46	25.03	N	29.7	---	-8.73
3.540107	28.04	---	56	27.96	N	29.7	-1.66	---
7.203129	---	22.84	50	27.16	L1	29.7	---	-6.86
7.783071	31.85	---	60	28.15	L1	29.7	2.15	---
14.38845	32.96	---	60	27.04	N	29.8	3.16	---
18.58877	---	24.64	50	25.36	L1	29.8	---	-5.16

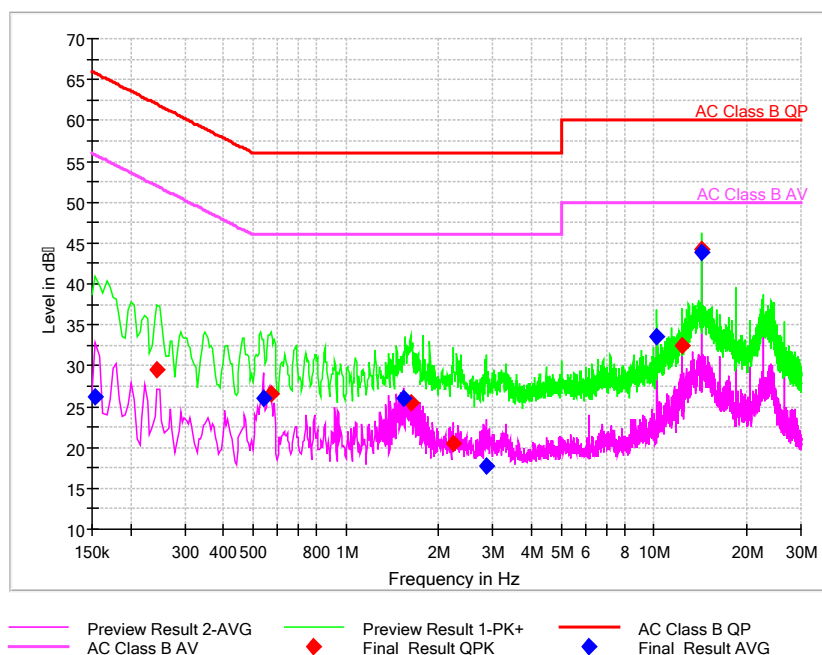
EUT1 + Laptop:



Pic6. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dB μ V)	Pmea Average (dB μ V)
0.15	36.22	---	66	29.78	L1	29.7	6.52	---
0.154264	---	26.14	55.77	29.63	N	29.8	---	-3.66
0.520993	26.78	---	56	29.22	N	29.8	-3.02	---
0.53805	---	25.9	46	20.1	L1	29.7	---	-3.8
1.574271	---	21.07	46	24.93	L1	29.8	---	-8.73
1.646764	25.68	---	56	30.32	N	29.8	-4.12	---
2.273614	---	18.12	46	27.88	L1	29.8	---	-11.68
2.341843	21.12	---	56	34.88	N	29.8	-8.68	---
10.2393	---	33.43	50	16.57	L1	29.9	---	3.53
10.2393	33.57	---	60	26.43	L1	29.9	3.67	---
14.33728	---	43.59	50	6.41	L1	30	---	13.59
14.33728	44.16	---	60	15.84	N	30.1	14.06	---

EUT2 + Laptop:



Pic7. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dB μ V)	Pmea Average (dB μ V)
0.154264	---	26.18	55.77	29.58	N	29.8	---	-3.62
0.243814	29.59	---	61.97	32.38	N	29.8	-0.21	---
0.53805	---	26.05	46	19.95	L1	29.7	---	-3.65
0.572164	26.56	---	56	29.44	N	29.8	-3.24	---
1.531629	---	25.93	46	20.07	L1	29.8	---	-3.87
1.621179	25.46	---	56	30.54	L1	29.8	-4.34	---
2.226707	20.56	---	56	35.44	L1	29.8	-9.24	---
2.853557	---	17.75	46	28.25	N	29.9	---	-12.15
10.2393	---	33.48	50	16.52	N	30	---	3.48
12.28616	32.52	---	60	27.48	N	30	2.52	---
14.33728	44.24	---	60	15.76	N	30.1	14.14	---
14.33728	---	43.8	50	6.2	L1	30	---	13.8

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
24.3°C	43.2%	101.0kPa

Test Setup:

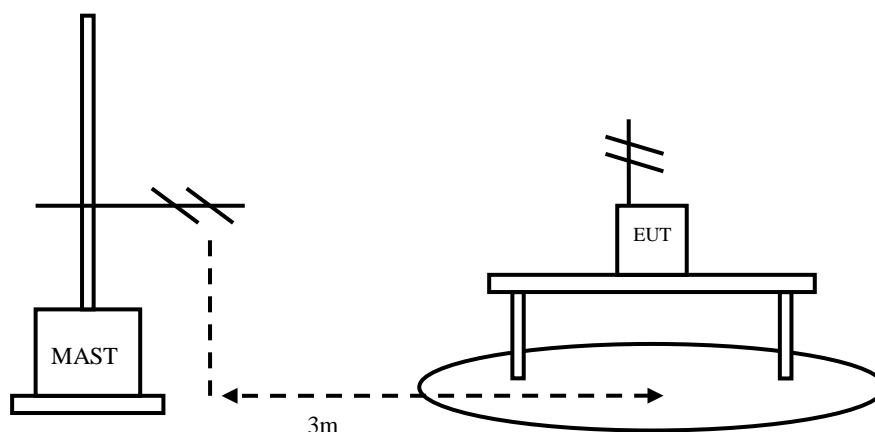


Figure 3

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 between the laptop and 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. 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 (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	54
	Peak	74

Test result:

Sample calculation: (24.61dBμV/m) = (36.61dBμV) + (-12dB/m), the corresponding frequency is 30 MHz.

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30	24.61	40.00	-12	36.61	V

EUT1 + Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
61.6705	15.69	40.00	-19.4	35.09	V
83.932	17.89	40.00	-23.2	41.09	V
268.135	23.29	46.00	-16.7	39.99	V
327.6445	23.25	46.00	-15.2	38.45	V
513.254	16.5	46.00	-10.5	27	V
956.5925	19.88	46.00	-2.6	22.48	V

EUT2 + Laptop:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
62.398	15.15	40.00	-19.6	34.75	V
83.932	17.91	40.00	-23.2	41.11	V
268.2805	25.63	46.00	-16.7	42.33	V
331.7185	21.61	46.00	-15	36.61	V
485.415	16	46.00	-11.2	27.2	V
955.768	19.62	46.00	-2.6	22.22	V

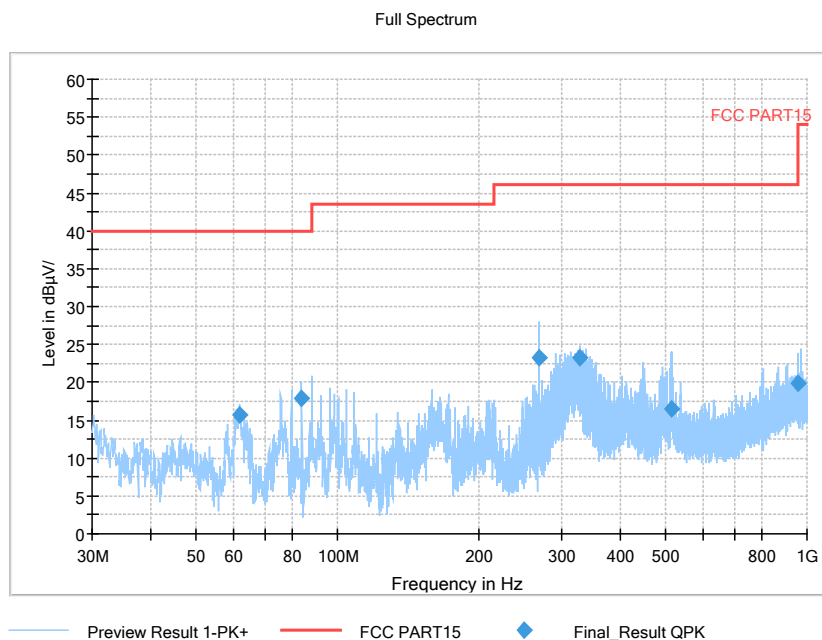
EUT1 + Charger:

Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30.582	23.47	40.00	-21.1	44.57	V
53.4255	21.39	40.00	-18	39.39	V
59.9245	25.02	40.00	-18.8	43.82	V
107.3575	23.16	43.50	-19.5	42.66	V
129.328	16.36	43.50	-22.3	38.66	V
958.9205	19.17	46.00	-2.6	21.77	V

EUT2 + Charger:

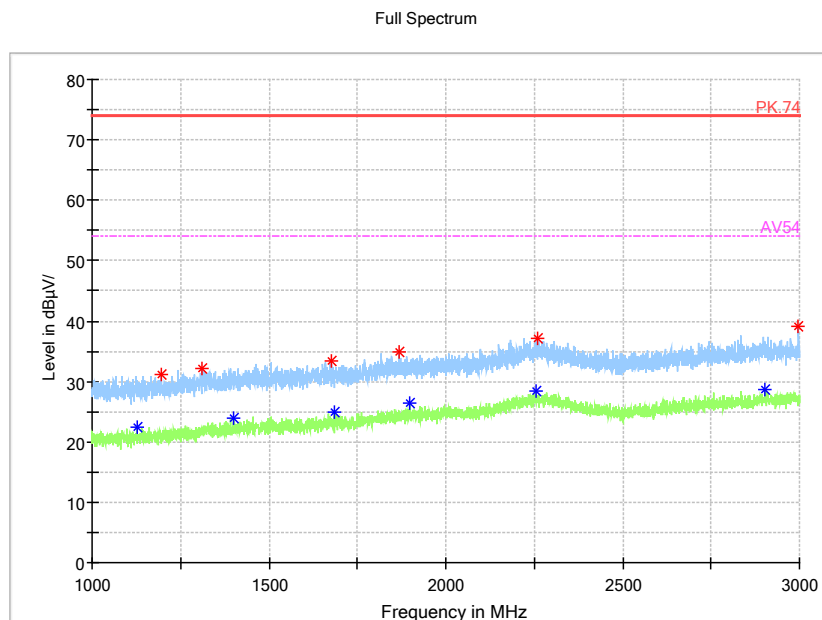
Frequency(MHz)	Result(dB μ V/m)	Limit (dB μ V/m)	ARpl (dB/m)	Pmea (dB μ V)	Polarity
30.582	23.24	40.00	-21.1	44.34	V
53.086	21.26	40.00	-17.9	39.16	V
59.391	25.61	40.00	-18.8	44.41	V
107.6	23.27	43.50	-19.5	42.77	V
132.7715	16.15	43.50	-22.5	38.65	V
944.5645	19.11	46.00	-2.8	21.91	V

EUT1 + Laptop: refer to Pic8, Pic9, Pic10, Pic11, Pic12



Pic8. Radiated emission(30MHz – 1GHz)

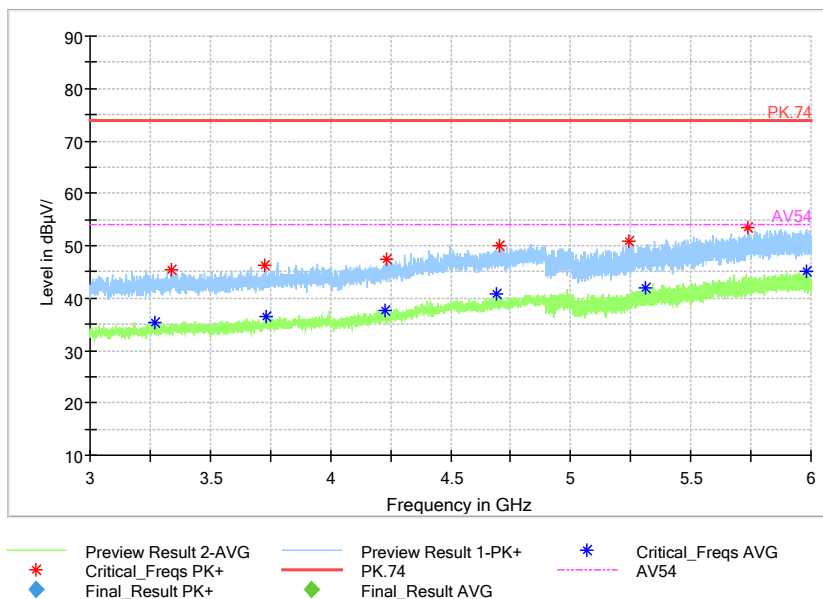
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic9. Radiated emission (1GHz –3GHz)

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

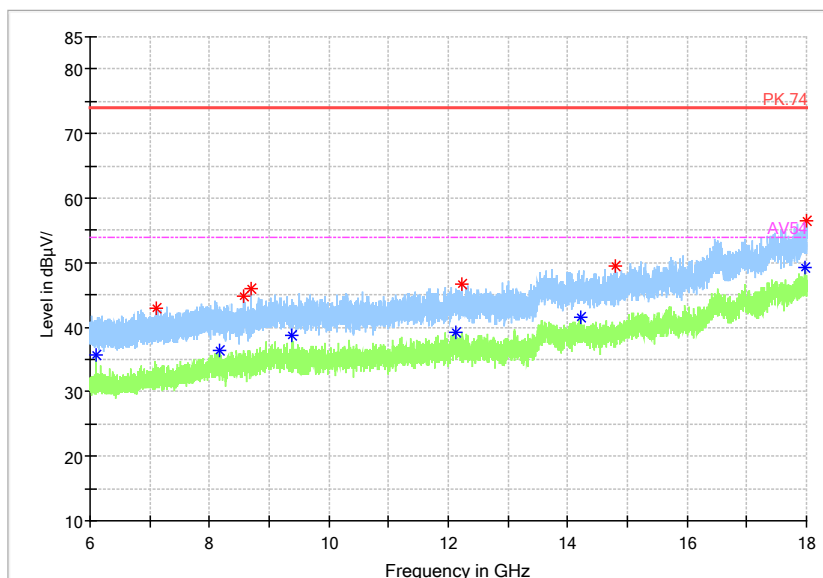
Full Spectrum



Pic10. Radiated emission (3GHz –6GHz)

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

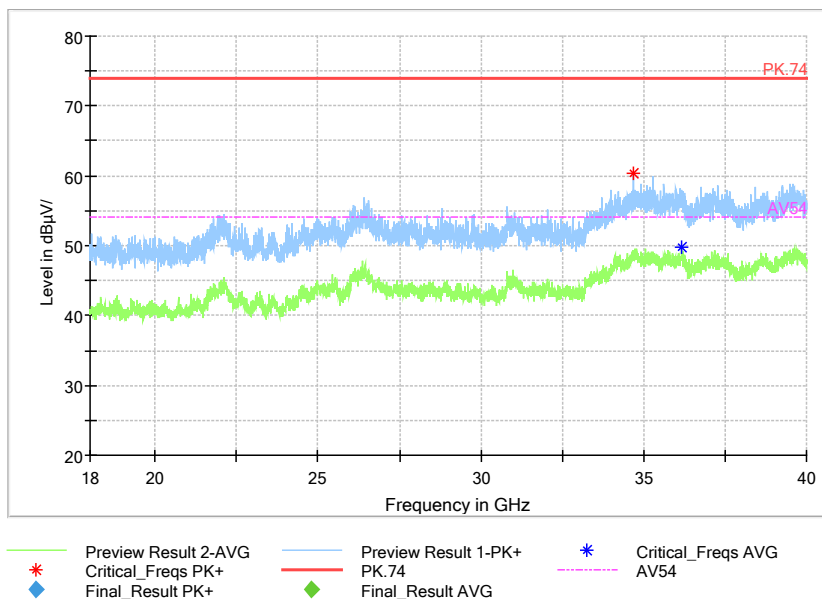
Full Spectrum



Pic11. Radiated emission (6GHz –18GHz)

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

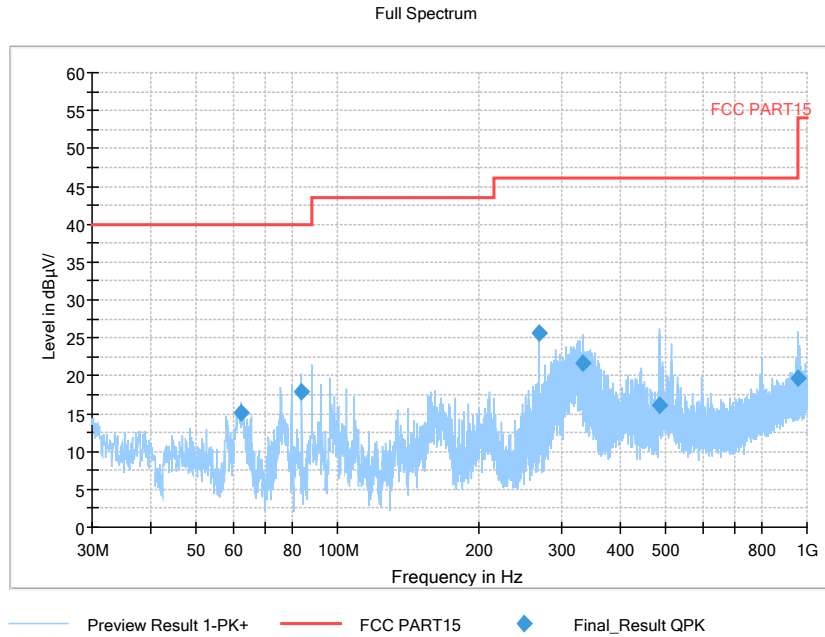
Full Spectrum



Pic12. Radiated emission (18GHz – 40GHz)

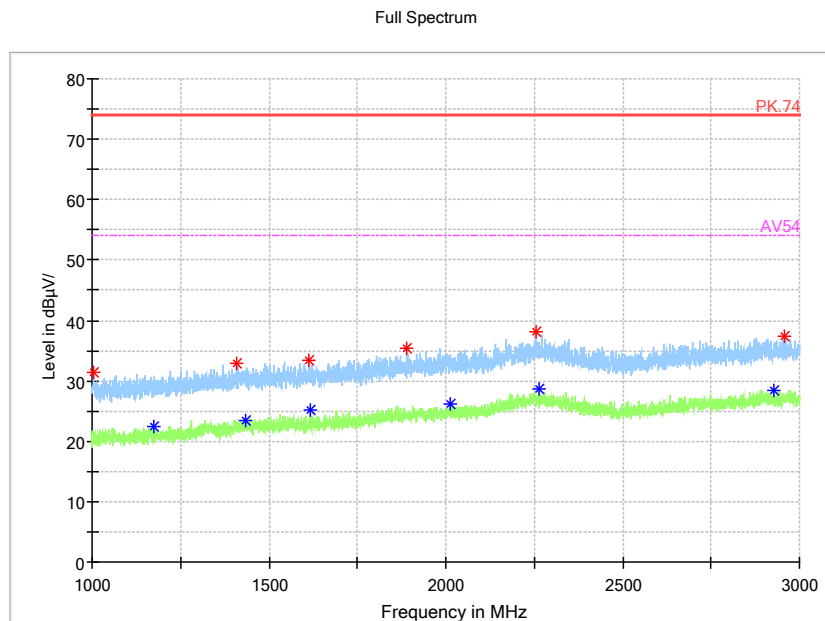
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT2 + Laptop: refer to Pic13, Pic14, Pic15, Pic16, Pic17



Pic13. Radiated emission(30MHz – 1GHz)

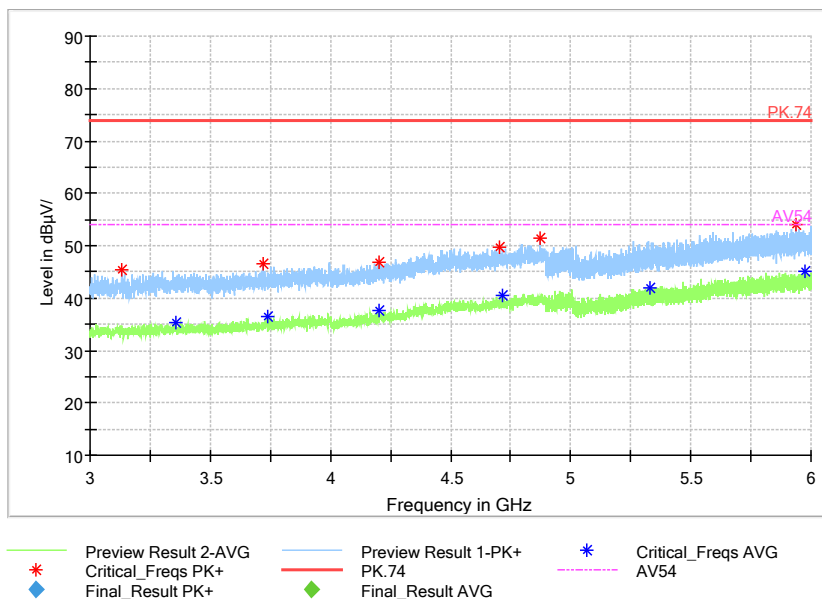
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic14. Radiated emission (1GHz –3GHz)

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

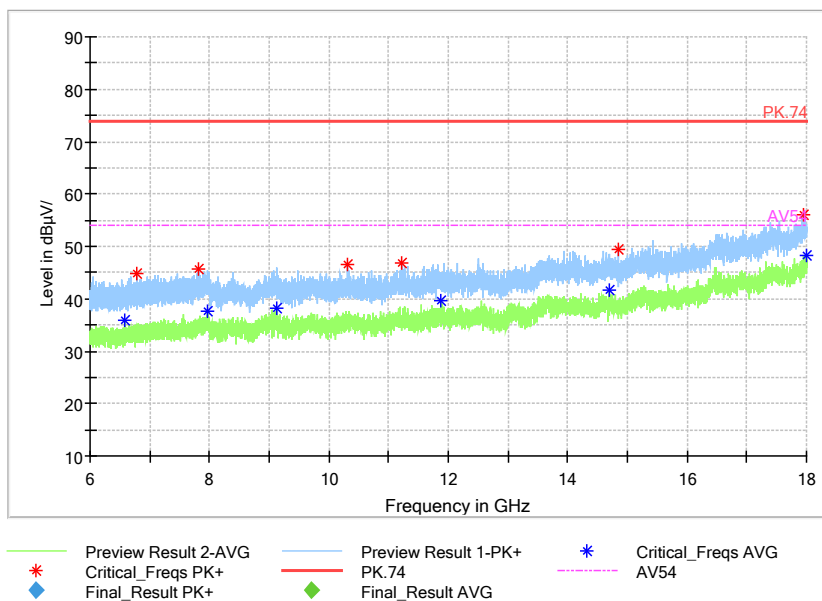
Full Spectrum



Pic15. Radiated emission (3GHz –6GHz)

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

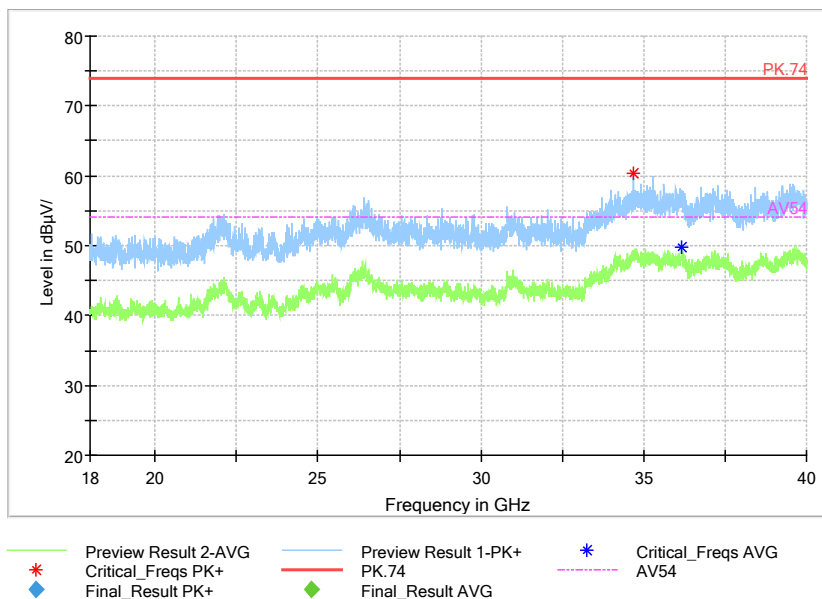
Full Spectrum



Pic16. Radiated emission (6GHz –18GHz)

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

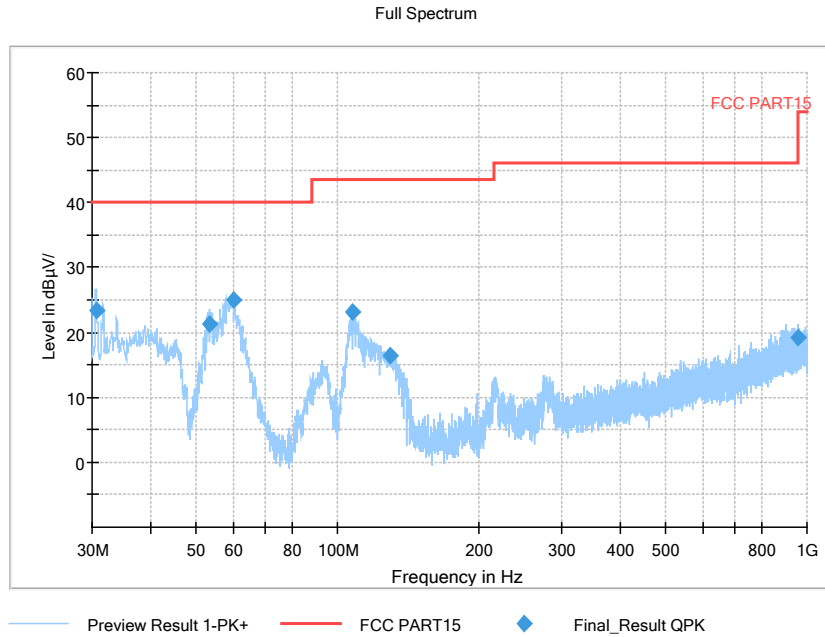
Full Spectrum



Pic17. Radiated emission (18GHz – 40GHz)

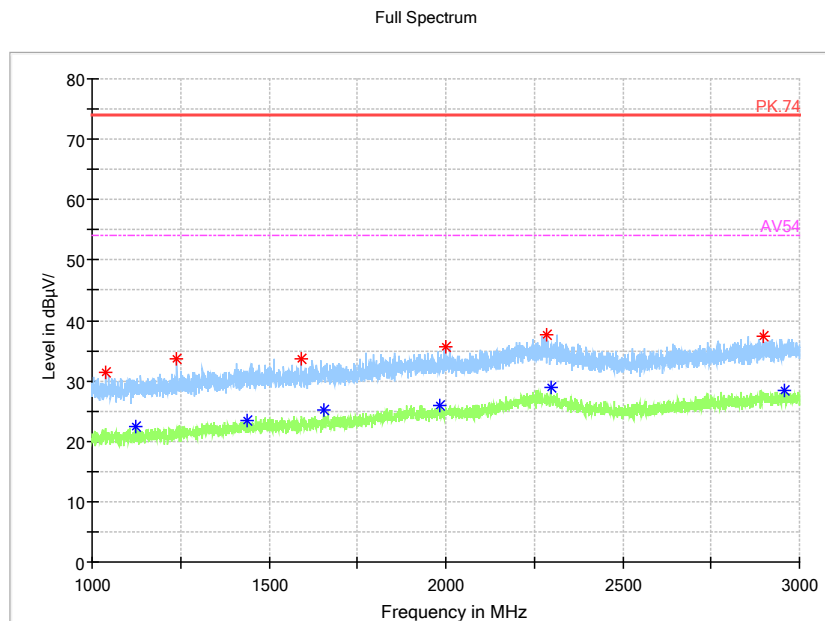
Note: The test data in the graph includes two polarizations: horizontal and vertical.

EUT1 + Charger: refer to Pic18, Pic19, Pic20, Pic21, Pic22



Pic18. Radiated emission(30MHz – 1GHz)

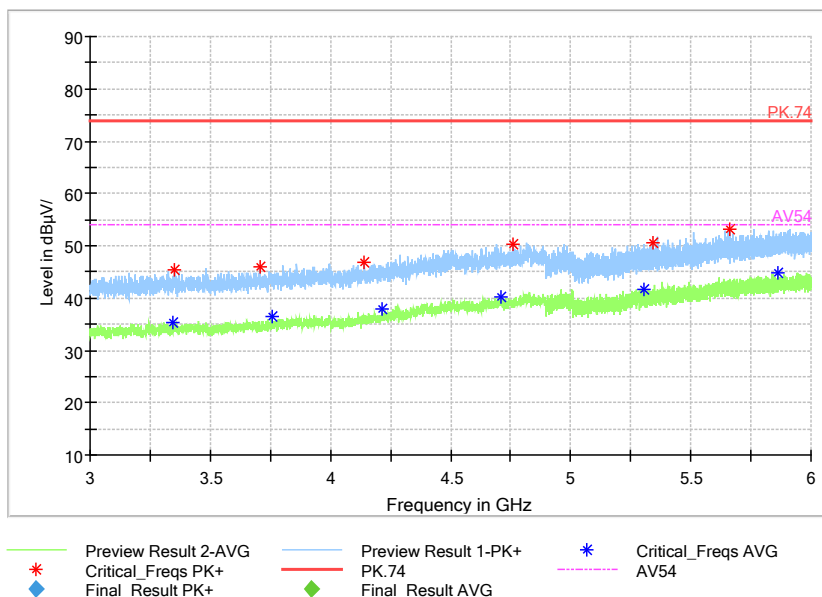
Note: The test data in the graph includes two polarizations: horizontal and vertical



Pic19. Radiated emission (1GHz –3GHz)

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

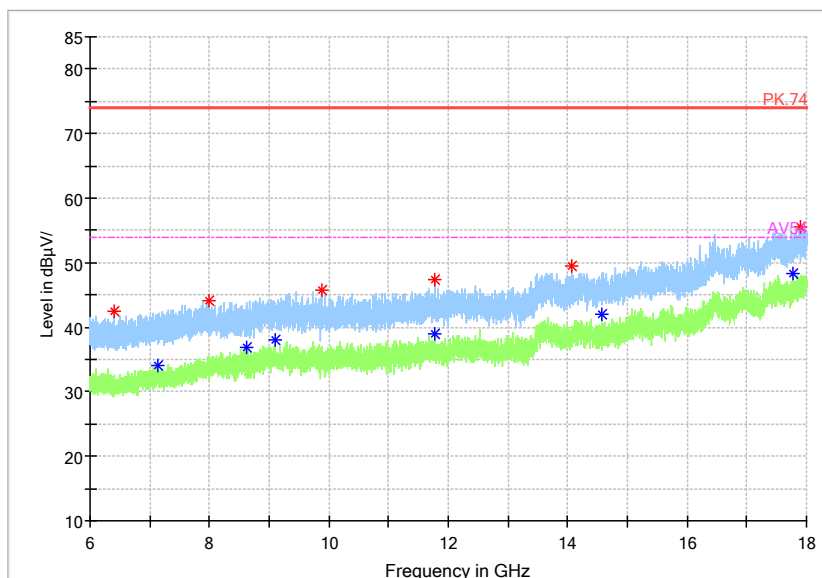
Full Spectrum



Pic20. Radiated emission (3GHz –6GHz)

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

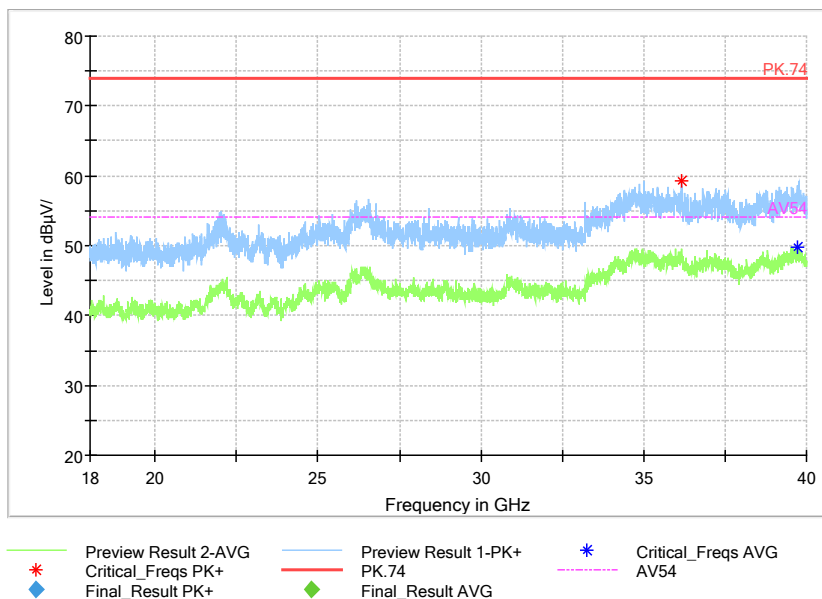
Full Spectrum



Pic21. Radiated emission (6GHz –18GHz)

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

Full Spectrum

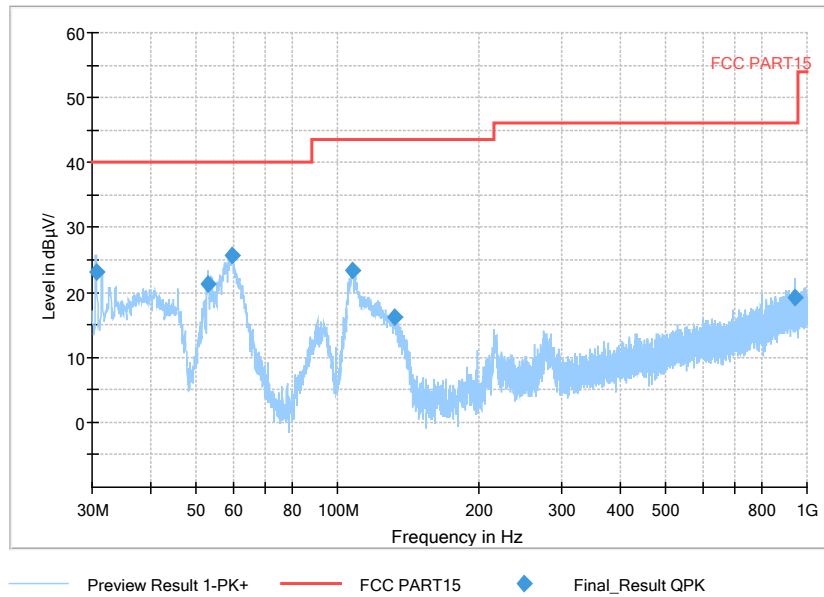


Pic22. Radiated emission (18GHz – 40GHz)

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

EUT2 + Charger: refer to Pic23, Pic24, Pic25, Pic26, Pic27

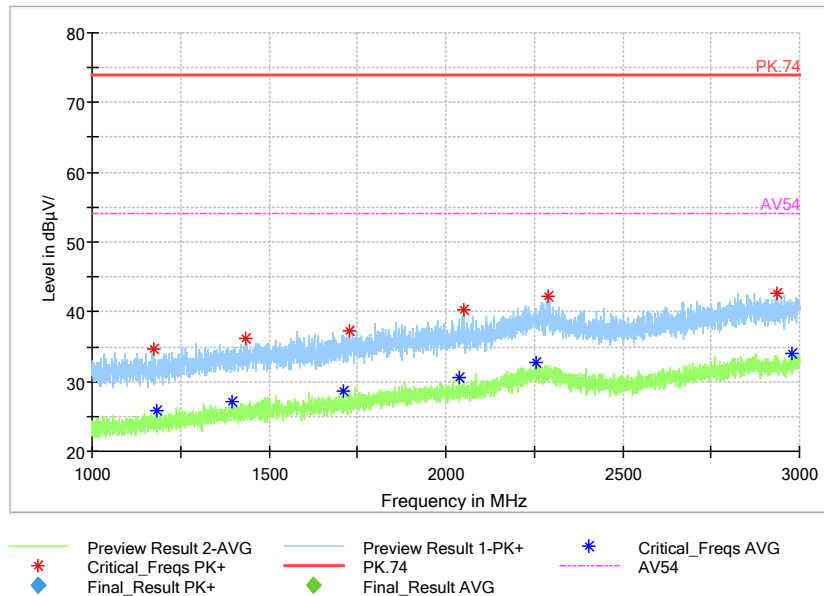
Full Spectrum



Pic23. Radiated emission(30MHz – 1GHz)

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

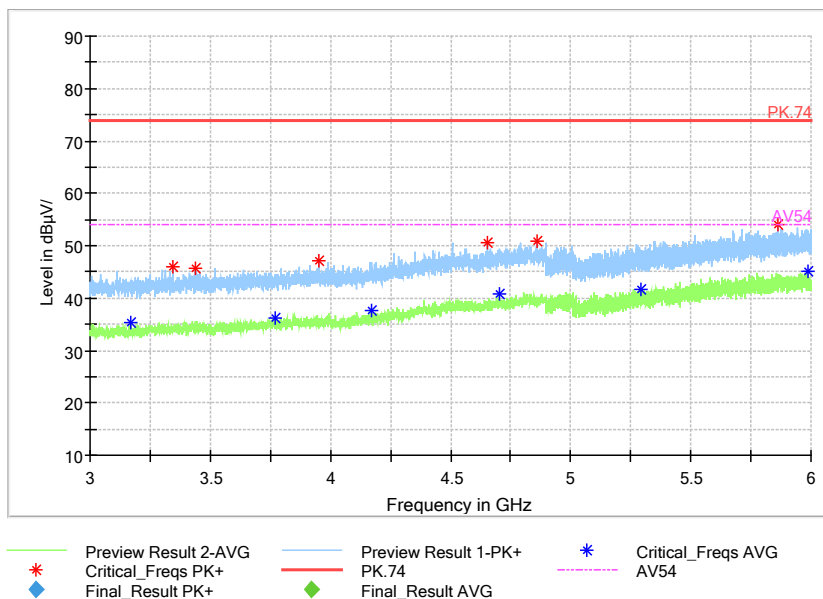
Full Spectrum



Pic24. Radiated emission (1GHz –3GHz)

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

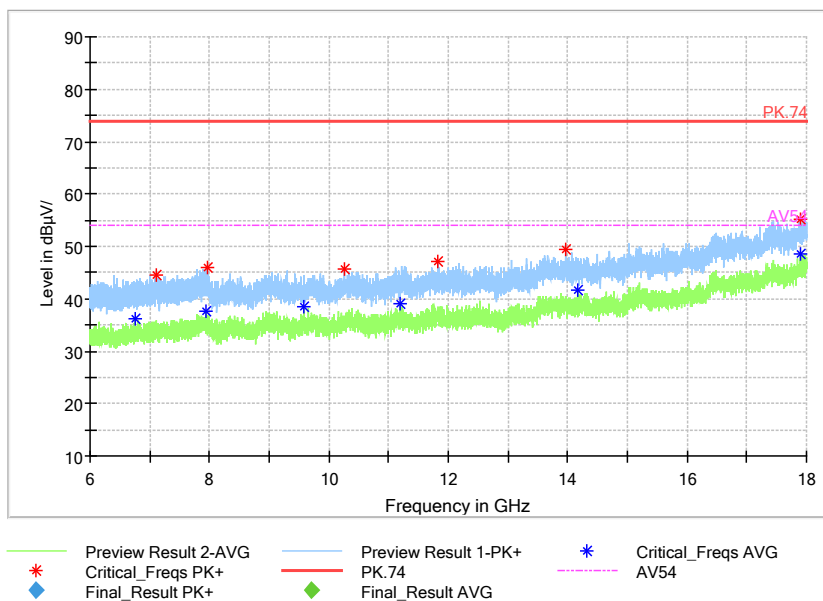
Full Spectrum



Pic25. Radiated emission (3GHz –6GHz)

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

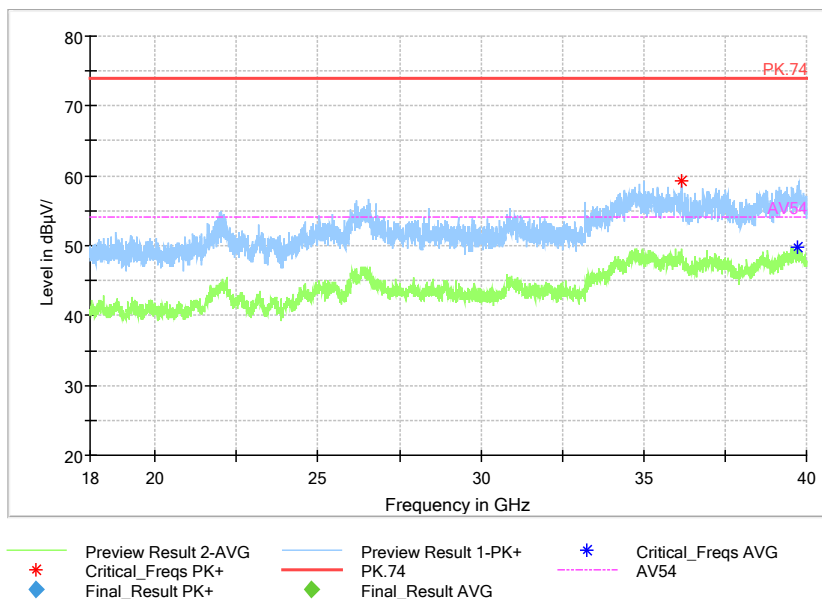
Full Spectrum



Pic26. Radiated emission (6GHz –18GHz)

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

Full Spectrum



Pic27. Radiated emission (18GHz – 40GHz)

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×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	5th Sep. 2023	6th Sep. 2018
2	ESW EMI test receiver	R&S	101574	20th June 2022	20th June 2021
3	ESR3 EMI test receiver	R&S	102361	11th Apr. 2022	11th Apr. 2021
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	5th Sep. 2023	6th Sep. 2020
5	VULB 9163 Ultra log test antenna	schwarzbeck	867	28th May 2023	28th May 2021
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	13th Apr. 2023	13th Apr. 2021
7	SAS-574 Horn Antenna	schwarzbeck	535	21th Apr. 2023	21th Apr. 2021
8	ENV216 AMN	R&S	101881	20th June 2022	20th June 2021
9	EMC32EMI test software	R&S	-----	-----	-----