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## EMC TEST REPORT

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<b>Report Number</b>	BWTR-2242-NA15B
<b>FCC ID</b>	SRQ-ZTEA7050
<b>Applicant</b>	ZTE Corporation
<b>Product Name</b>	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
<b>Marketing Name</b>	ZTE Blade A72s
<b>Brand Name</b>	ZTE
<b>Model Name</b>	ZTE A7050
<b>Serial Number</b>	No.1 (1 <sup>st</sup> Source): 863949060004359 No.2 (2 <sup>nd</sup> Source): 863949060006958
<b>Test Standard</b>	FCC 47 CFR Part 15 Subpart B
<b>Tested Date</b>	Jul. 22, 2022 - Aug. 19, 2022

## CONTENTS

<b>1 Summary of Test Result.....</b>	<b>4</b>
<b>2 General Information .....</b>	<b>5</b>
2.1 Applicant.....	5
2.2 Manufacturer.....	5
2.3 Product Feature of Equipment Under Test.....	5
2.4 Ancillary Equipment.....	5
2.5 Configuration and Peripherals.....	7
2.6 Applicable Standards .....	7
2.7 Test Facilities .....	8
2.8 EUT Operation Mode.....	8
<b>3 Test Result.....</b>	<b>9</b>
3.1 Conducted Emission .....	9
3.2 Radiated Emission.....	13
<b>4 Test Instruments and Software .....</b>	<b>19</b>
4.1 Test Instruments.....	19
4.2 Test Software .....	19


## Revision History

Revision	Description	Issued Date
A	Initial issue of report	2022/08/08
B	Add the information of 2nd source	2022/08/22

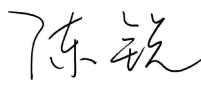
## 1 Summary of Test Result

Report Section	FCC Section	Description	Result
3.1	15.107	Conducted Emission	Pass
3.2	15.109	Radiated Emission	Pass


We, Beijing Boomwave Test Service Co. Ltd., would like to declare that the tested sample has been evaluated and in compliance with the requirements of applicable standards.

Prepared by:  2022.08.22  
17:29:09 +08'00'

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Reviewed by:  2022.08.22  
18:18:00 +08'00'

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Approved by:  2022.08.22  
20:35:04 +08'00'

### Rationale:

The test results in this report apply exclusively to the tested model / sample.

The laboratory shall have no liability to authenticate the information of tested model / sample provided by applicant or manufacturer in the test report. And it should be aware that the information may affect the validity of test results.

The electrical copy of test report is invalid without the signatures. The hard copy is invalid without seal. The test report shall not be modified, republished or copied without the written authorization of the laboratory.

## 2 General Information

### 2.1 Applicant

ZTE Corporation

ZTE Plaza, No. 55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

### 2.2 Manufacturer

ZTE Corporation

ZTE Plaza, No. 55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

### 2.3 Product Feature of Equipment Under Test

<b>Product Name</b>	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
<b>Marketing Name</b>	ZTE Blade A72s
<b>Model Name</b>	ZTE A7050
<b>Sample Status</b>	Production
<b>Power Supply Rating</b>	DC 3.85V
<b>Supported Function</b>	GSM850/PCS1900 WCDMA Band II/IV/V LTE Band 2/4/5/7/13/26/28/38/66 2.4GHz Bluetooth 2.4GHz/5GHz WiFi Wired Charging
<b>Antenna Type</b>	Fixed Internal
<b>Cable</b>	1.0m USB Cable
<b>Hardware Version</b>	ZTE A7050HW1.0
<b>Software Version</b>	MyOS12.0.0 A7050 TEL
<b>Sample Received Date</b>	2022/07/15

### 2.4 Ancillary Equipment

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following ancillary equipment were used to form a representative test configuration during the tests.

<b>Accessory</b>	Power Adapter 1
<b>Manufacturer</b>	Shenzhen Ruijing Industrial Co.,Ltd.
<b>Model Name</b>	STC-A51030A2-Z
<b>Input Power</b>	AC100-240V-50/60Hz 500mA
<b>Output Power</b>	DC10V, 2250mA (Max)
<b>Serial Number</b>	---

Note: This power adapter model was selected for test as the worst case.

<b>Accessory</b>	Power Adapter 2
<b>Manufacturer</b>	Jiangsu Chenyang Electron Co.Ltd.
<b>Model Name</b>	STC-A51030A2-Z
<b>Input Power</b>	AC100-240V-50/60Hz 500mA
<b>Output Power</b>	DC10V, 2250mA (Max)
<b>Serial Number</b>	---

<b>Accessory</b>	Power Adapter 3
<b>Manufacturer</b>	Shenzhen Ruijing Industrial Co.,Ltd.
<b>Model Name</b>	STC-A520A-Z
<b>Input Power</b>	AC100-240V-50/60Hz 400mA
<b>Output Power</b>	DC5V, 2000mA
<b>Serial Number</b>	---

<b>Accessory</b>	Power Adapter 4
<b>Manufacturer</b>	Jiangsu Chenyang Electron Co.Ltd.
<b>Model Name</b>	STC-A520A-Z
<b>Input Power</b>	AC100-240V-50/60Hz 400mA
<b>Output Power</b>	DC5V, 2000mA
<b>Serial Number</b>	---

<b>Accessory</b>	Li-Lon Battery
<b>Manufacturer</b>	SCUD (FUJIAN) Electronics Co., Ltd
<b>Model Name</b>	Li3949T44P8h906450-5A
<b>Capacity</b>	4870mAh
<b>Nominal Voltage</b>	3.85V
<b>Serial Number</b>	---

<b>Accessory</b>	Headset 1
<b>Manufacturer</b>	JUWEI Electronics Co., Ltd
<b>Model Name</b>	JWEP1036-Z01R
<b>Serial Number</b>	---

<b>Accessory</b>	Headset 2
<b>Manufacturer</b>	ShenZhen FDC Electronic Co., Ltd
<b>Model Name</b>	DEM-66
<b>Serial Number</b>	---

Note: This headset model was selected for test as the worst case.

<b>Accessory</b>	USB Cable 1
<b>Manufacturer</b>	King Power Electronics Co.,Ltd.
<b>Model Name</b>	USB-TC20-W-100-M-L-HF
<b>Serial Number</b>	---

<b>Accessory</b>	USB Cable 2
<b>Manufacturer</b>	Shenzhen Luxshare Precision Industry Co.,Ltd.
<b>Model Name</b>	USB-TC20-W-100-M-L-HF
<b>Serial Number</b>	---

Note: This USB cable model was selected for test as the worst case.

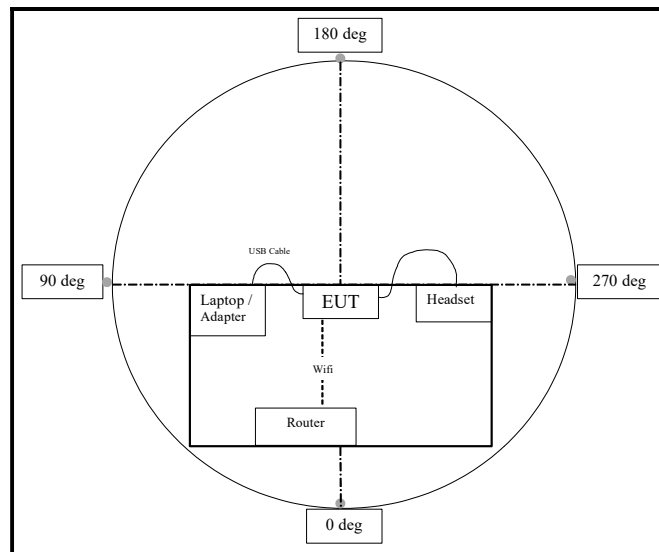
<b>Accessory</b>	USB Cable 3
<b>Manufacturer</b>	Shenzhen Luxshare Precision Industry Co.,Ltd.
<b>Model Name</b>	USB-TC20-W-70-M-L
<b>Serial Number</b>	---

<b>Accessory</b>	USB Cable 4
<b>Manufacturer</b>	Dongguan Guojun Plastic Electronic Co.,Ltd
<b>Model Name</b>	USB-TC20-W-70-M-L
<b>Serial Number</b>	---

<b>Support Unit</b>	Wireless Router
<b>Manufacturer</b>	LINKSYS
<b>Model Name</b>	WRT3200ACM
<b>Serial Number</b>	19810609704032

<b>Support Unit</b>	Laptop
<b>Manufacturer</b>	Dell
<b>Model Name</b>	Inspiron 5493
<b>Serial Number</b>	NG4DK A00

## 2.5 Configuration and Peripherals



## 2.6 Applicable Standards

Standard	Version	Title
FCC 47 CFR Part 15 Subpart B	2020	Requirements for Un-intentional Radiators
ANSI C63.4	2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz

## 2.7 Test Facilities

Company Name: Beijing Boomwave Test Service Co. Ltd

Address: EMC Building, No.1 Wang Jing East Road, Chao Yang District Beijing, P.R. China 100102

FCC Test Firm Registration Number: 613197

ISED Canada Registration No.: 24289 (CAB Identifier: CN0010)

VCCI Registration No.: R-20062, G-20063, C-20050, T-20049

Test Site	Description	Dimension	Ground Plane Size
<input type="checkbox"/> SAC10	10m semi-anechoic chamber	19.5m × 12.9m × 8.6m	9.6m × 6.4m
<input checked="" type="checkbox"/> SAC3	3m semi-anechoic chamber	9.6m × 6.4m × 6.0m	4m × 4m
<input checked="" type="checkbox"/> SR#1	Shielding Room for EMS test	8.1m × 4.05m × 2.755m	8.1m × 4.05m
<input type="checkbox"/> SR#2	Shielding Room for RF test	8.1m × 4.05m × 2.755m	---

## 2.8 EUT Operation Mode

Mode No.	Mode	Description
Mode 1	GSM850/PCS1900 + BT + 5GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	Multimedia Playing (EUT + Power Adapter)
Mode 2	WCDMA + BT + 5GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	
Mode 3	LTE + BT + 5GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	
Mode 4	GSM850/PCS1900 + BT + 5GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	Data Transferring (EUT + Laptop)
Mode 5	WCDMA + BT + 5GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	
Mode 6	LTE + BT + 5GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	

Note: The EUT has two sources whose difference is the pixel and module size of main back camera. Pre-Scan has been conducted to determine the worst-case mode: Mode 2 and Mode 5 of EUT No.1 (1st Source).

### 3 Test Result

#### 3.1 Conducted Emission

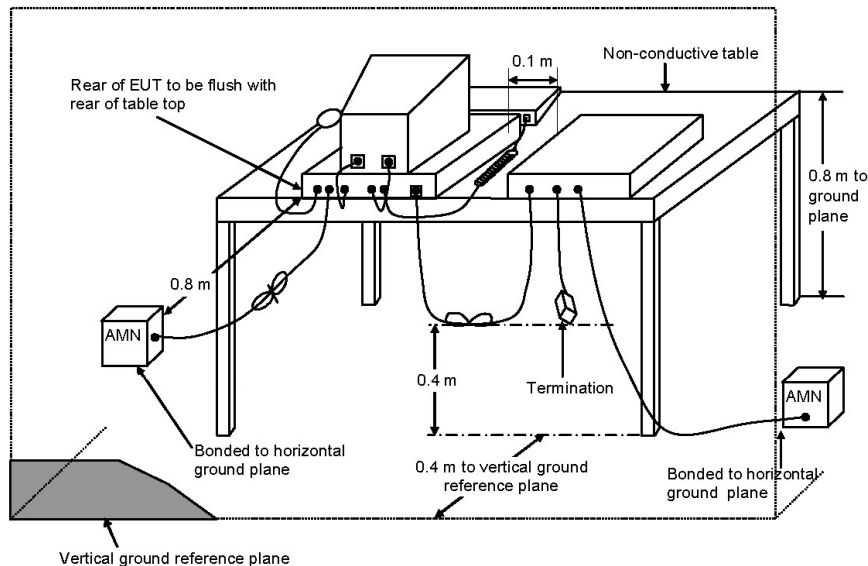
##### 3.1.1. Limits

FCC 47 CFR Part 15 Subpart B - §15.107 (a)

Frequency Range (MHz)	Detector Type / Bandwidth	Class B limits (dBµV)
0.15 to 0.5	Quasi Peak / 9 kHz	66 to 56
0.5 to 5		56
5 to 30		60
0.15 to 0.5	Average / 9 kHz	56 to 46
0.5 to 5		46
5 to 30		50

Note: The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

##### 3.1.2. Typical Test Setup Layout

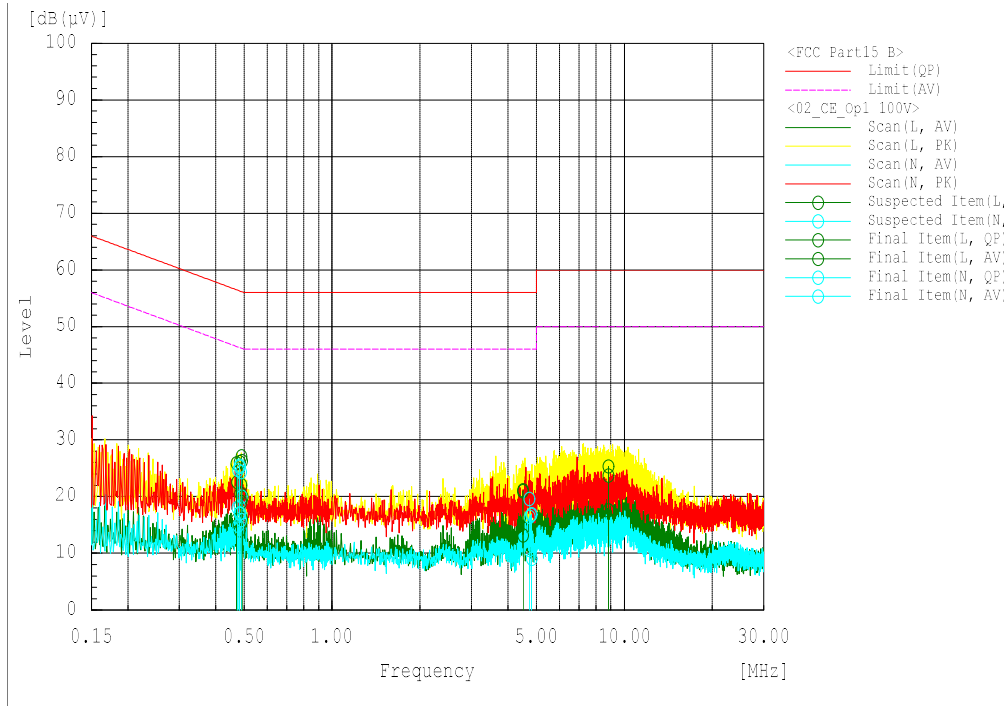


##### 3.1.3. Test Procedures

- 1) The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meter from any other grounded conducting surface.
- 2) Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3) All the support units are connected to the other LISN.
- 4) The frequency range from 150 kHz to 30 MHz was searched.
- 5) Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) 6 frequency points closest to the limit of each line shall be performed the final measurement by Quasi Peak detector.

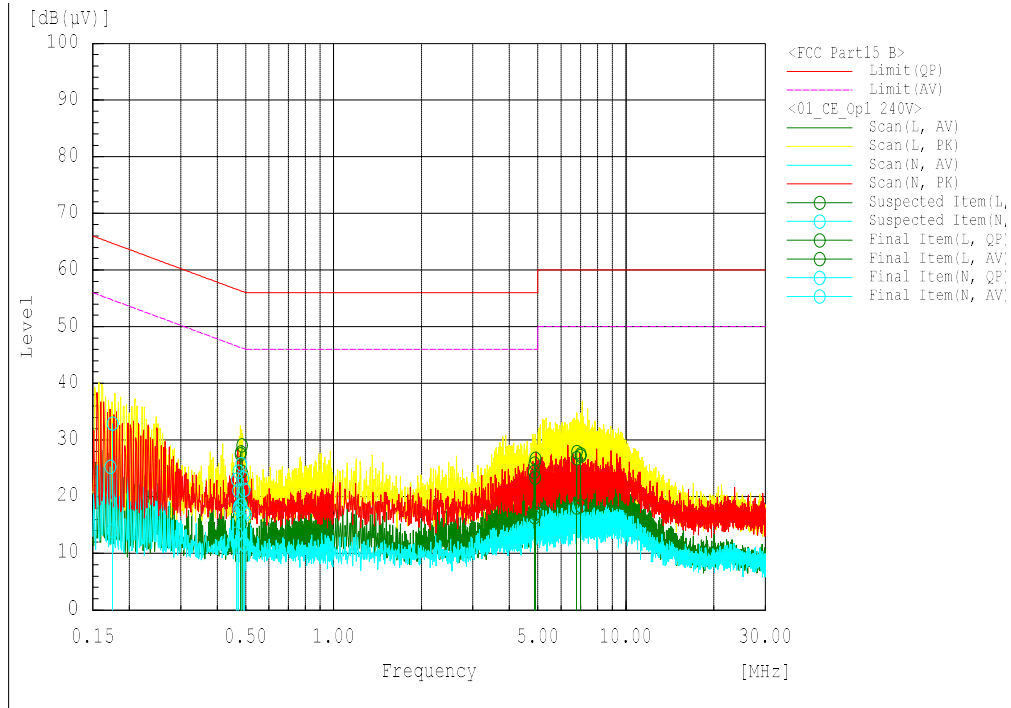
### 3.1.4. Test Result

Test Mode	Mode 2 - AC 100V	Test Date	2022/07/22
Test Frequency	0.15MHz ~ 30MHz	Test Engineer	Cai Zengchen
Serial Number	863949060004359	Temp, Humidity	20.1°C, 49.1%



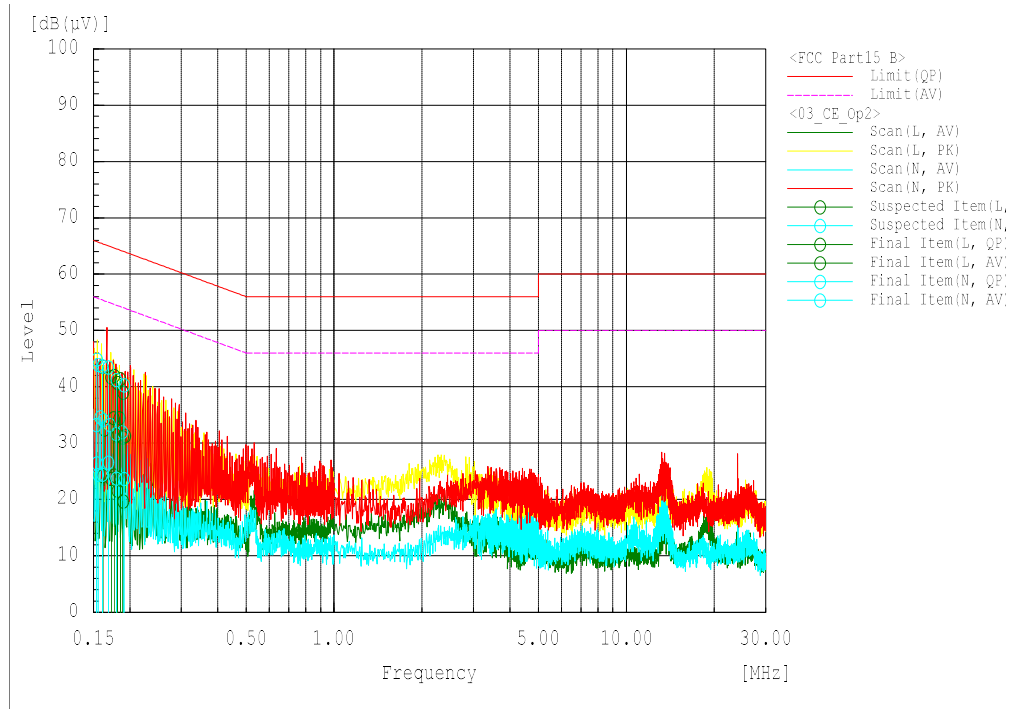
Frequency MHz	Line	Reading dB(µV)		Factor dB	Level dB(µV)		Limit dB(µV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.477	N	14.7	4.9	10.0	24.7	14.9	56.4	46.4	31.7	31.5	Pass
0.482	N	15.5	7.0	10.0	25.5	17.0	56.3	46.3	30.8	29.3	Pass
0.483	N	15.3	7.1	10.0	25.3	17.1	56.3	46.3	31.0	29.2	Pass
0.488	N	14.4	5.9	10.0	24.4	15.9	56.2	46.2	31.8	30.3	Pass
4.731	N	9.6	0.6	10.0	19.6	10.6	56.0	46.0	36.4	35.4	Pass
4.817	N	6.9	-0.9	10.0	16.9	9.1	56.0	46.0	39.1	36.9	Pass
0.471	L	15.9	5.8	10.0	25.9	15.8	56.5	46.5	30.6	30.7	Pass
0.483	L	16.1	4.0	10.0	26.1	14.0	56.3	46.3	30.2	32.3	Pass
0.49	L	17.1	9.1	10.0	27.1	19.1	56.2	46.2	29.1	27.1	Pass
0.492	L	16.3	6.1	10.0	26.3	16.1	56.1	46.1	29.8	30.0	Pass
4.498	L	11.2	3.2	10.0	21.2	13.2	56.0	46.0	34.8	32.8	Pass
8.827	L	15.4	7.6	10.0	25.4	17.6	60.0	50.0	34.6	32.4	Pass

<b>Test Mode</b>	Mode 2 - AC 240V	<b>Test Date</b>	2022/07/22
<b>Test Frequency</b>	0.15MHz ~ 30MHz	<b>Test Engineer</b>	Cai Zengchen
<b>Serial Number</b>	863949060004359	<b>Temp, Humidity</b>	20.1°C, 49.1%



Frequency MHz	Line	Reading dB(μV)		Factor dB	Level dB(μV)		Limit dB(μV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.481	L	17.8	5.2	10.0	27.8	15.2	56.3	46.3	28.5	31.1	Pass
0.486	L	19.0	9.1	10.0	29.0	19.1	56.2	46.2	27.2	27.1	Pass
4.864	L	15.9	6.5	10.0	25.9	16.5	56.0	46.0	30.1	29.5	Pass
4.909	L	16.7	7.0	10.0	26.7	17.0	56.0	46.0	29.3	29.0	Pass
6.777	L	16.8	8.2	10.0	26.8	18.2	60.0	50.0	33.2	31.8	Pass
6.991	L	17.3	8.4	10.0	27.3	18.4	60.0	50.0	32.7	31.6	Pass
0.175	N	22.7	3.8	10.2	32.9	14.0	64.7	54.7	31.8	40.7	Pass
0.467	N	13.0	3.5	10.0	23.0	13.5	56.6	46.6	33.6	33.1	Pass
0.472	N	14.5	7.8	10.0	24.5	17.8	56.5	46.5	32.0	28.7	Pass
0.482	N	15.8	8.5	10.0	25.8	18.5	56.3	46.3	30.5	27.8	Pass
0.491	N	13.2	1.7	10.0	23.2	11.7	56.2	46.2	33.0	34.5	Pass
0.496	N	11.2	1.6	10.0	21.2	11.6	56.1	46.1	34.9	34.5	Pass

<b>Test Mode</b>	Mode 5	<b>Test Date</b>	2022/07/22
<b>Test Frequency</b>	0.15MHz ~ 30MHz	<b>Test Engineer</b>	Cai Zengchen
<b>Serial Number</b>	863949060004359	<b>Temp, Humidity</b>	20.1°C, 49.1%



Frequency MHz	Line	Reading dB(μV)		Factor dB	Level dB(μV)		Limit dB(μV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.162	L	33.4	14.0	10.2	43.6	24.2	65.4	55.4	21.8	31.2	Pass
0.172	L	31.5	13.4	10.2	41.7	23.6	64.8	54.8	23.1	31.2	Pass
0.177	L	31.7	14.1	10.2	41.9	24.3	64.6	54.6	22.7	30.3	Pass
0.182	L	30.6	11.5	10.1	40.7	21.6	64.4	54.4	23.7	32.8	Pass
0.185	L	31.3	13.5	10.1	41.4	23.6	64.2	54.2	22.8	30.6	Pass
0.190	L	28.9	9.6	10.1	39.0	19.7	64.1	54.1	25.1	34.4	Pass
0.154	N	34.7	16.2	10.2	44.9	26.4	65.8	55.8	20.9	29.4	Pass
0.156	N	33.7	14.2	10.2	43.9	24.4	65.7	55.7	21.8	31.3	Pass
0.161	N	33.5	14.2	10.2	43.7	24.4	65.4	55.4	21.7	31.0	Pass
0.169	N	33.3	16.4	10.2	43.5	26.6	65.0	55.0	21.5	28.4	Pass
0.180	N	31.2	13.6	10.1	41.3	23.7	64.5	54.5	23.2	30.8	Pass
0.191	N	30.2	13.6	10.1	40.3	23.7	64.0	54.0	23.7	30.3	Pass

### 3.1.5. Uncertainty

$$U_{lab}=3dB (U_{Cispr}=3.44dB)$$

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%.

### 3.2 Radiated Emission

#### 3.2.1. Limit

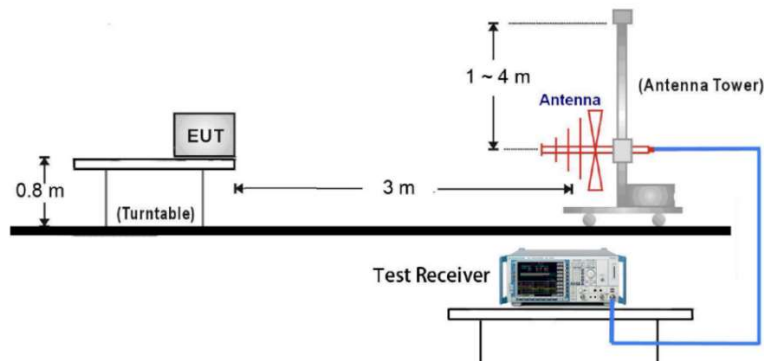
FCC 47 CFR Part 15 Subpart B - §15.109 (a)

Frequency (MHz)	Field Strength		Measurement Distance (meters)
	uV/m	dBuV/m	
30 - 88	100	40.0	3
88 - 216	150	43.5	3
216 - 960	200	46.0	3
Above 960	500	54.0	3

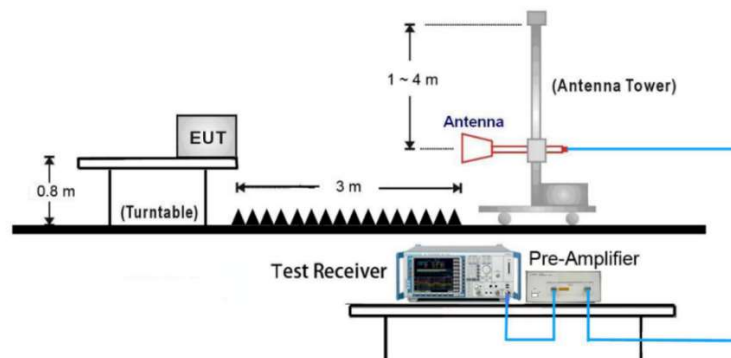
Frequency (MHz)	Class B Limits dBuV/m		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705~108	1000
108~500	2000
500~1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

#### 3.2.2. Typical Test Setup Layout and Connection



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

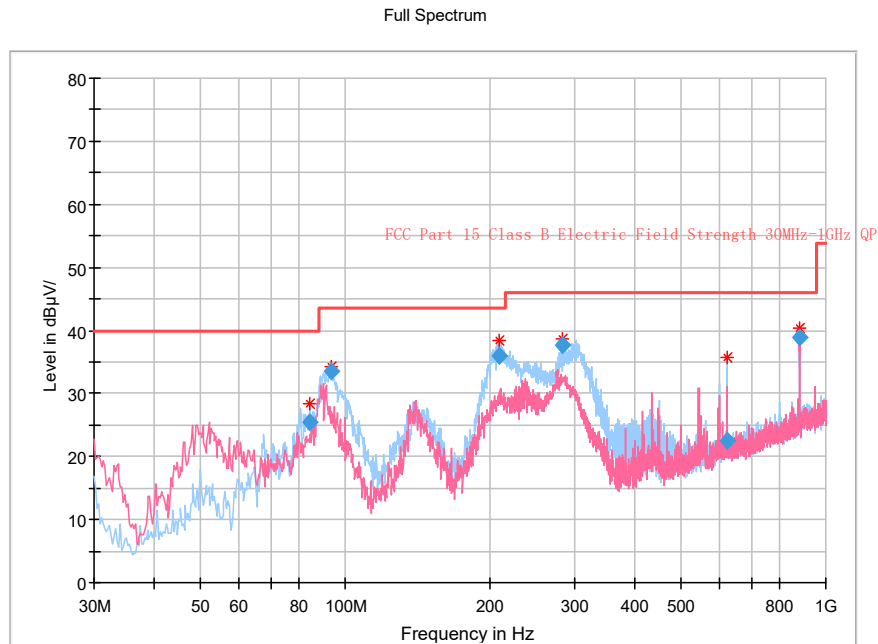
### 3.2.3. Test Procedures

#### 30MHz - 1GHz & Above 1GHz:

- 1) The EUT was placed on a rotatable table top 0.8 meter above ground.
- 2) The EUT was set 3 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- 3) The table was rotated 360 degrees to determine the position of the highest radiation.
- 4) The elevation of the antenna varies from 1 m to 4 m above the ground to find the maximum field strength. The horizontal polarization and vertical polarization of the antenna are set for measurement.
- 5) For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 to 4 meters) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- 6) Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode; Then the quasi-peak or average scan is carried out at points with relatively high peak value.
- 7) Reading(dBuV/m) = QuasiPeak(dBμV/m) or MaxPeak(dBμV/m) or Average(dBμV/m) - Corr.(dB)

### 3.2.4. Test Result

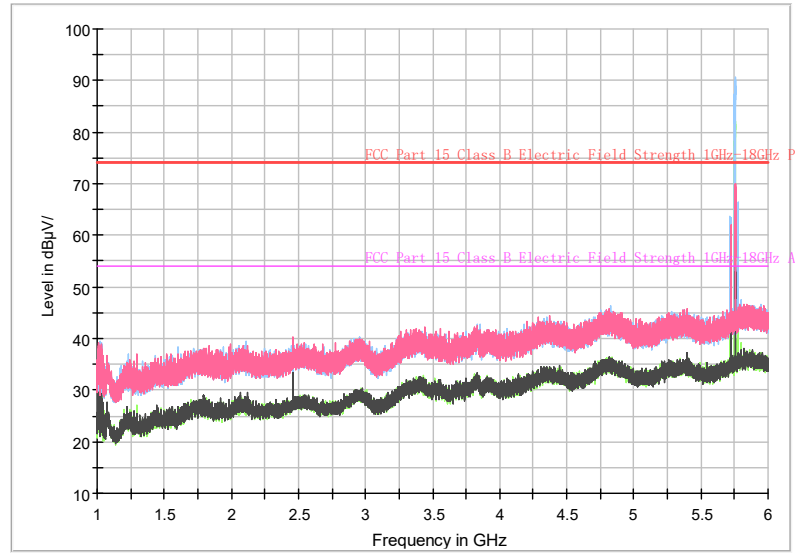
<b>Test Mode</b>	Mode 2	<b>Test Date</b>	2022/07/22
<b>Test Frequency</b>	30 MHz ~ 1000 MHz	<b>Test Engineer</b>	Chen Rui
<b>Serial Number</b>	863949060004359	<b>Temp, Humidity</b>	23.3°C, 47.6%



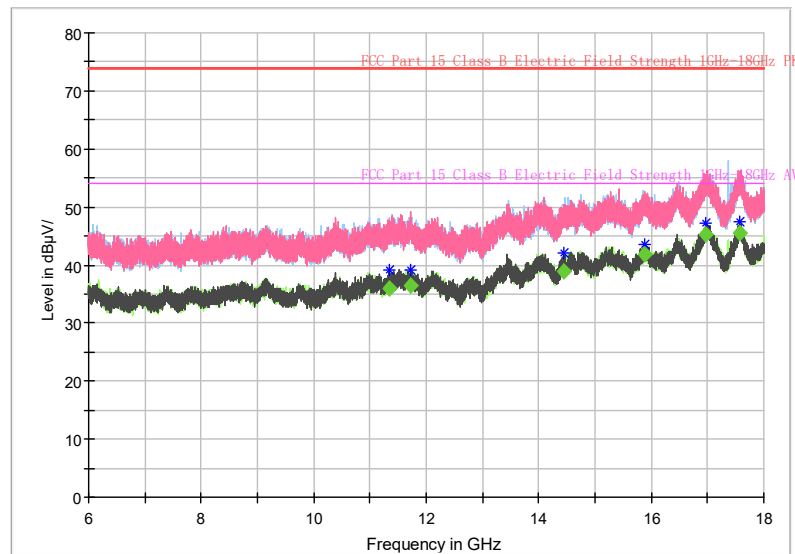
Frequency (MHz)	Reading (dBUV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
84.320000	50.75	25.45	40.00	14.55	1000.0	120.000	211.5	H	200.0	-25.3
93.292500	55.80	33.60	43.50	9.90	1000.0	120.000	294.0	H	205.0	-22.2
208.965000	56.36	35.96	43.50	7.54	1000.0	120.000	124.7	H	255.0	-20.4
283.170000	55.24	37.64	46.00	8.36	1000.0	120.000	100.7	H	155.0	-17.6
625.095000	30.38	22.58	46.00	23.42	1000.0	120.000	124.7	H	246.0	-7.8
880.447500	42.33	38.83	46.00	7.17	1000.0	120.000	99.8	V	295.0	-3.5

Test Mode	Mode 2	Test Date	2022/07/27
Test Frequency	1000 MHz ~ 18000 MHz	Test Engineer	Chen Rui
Serial Number	863949060004359	Temp, Humidity	23.5°C, 46.1%

Full Spectrum



Full Spectrum



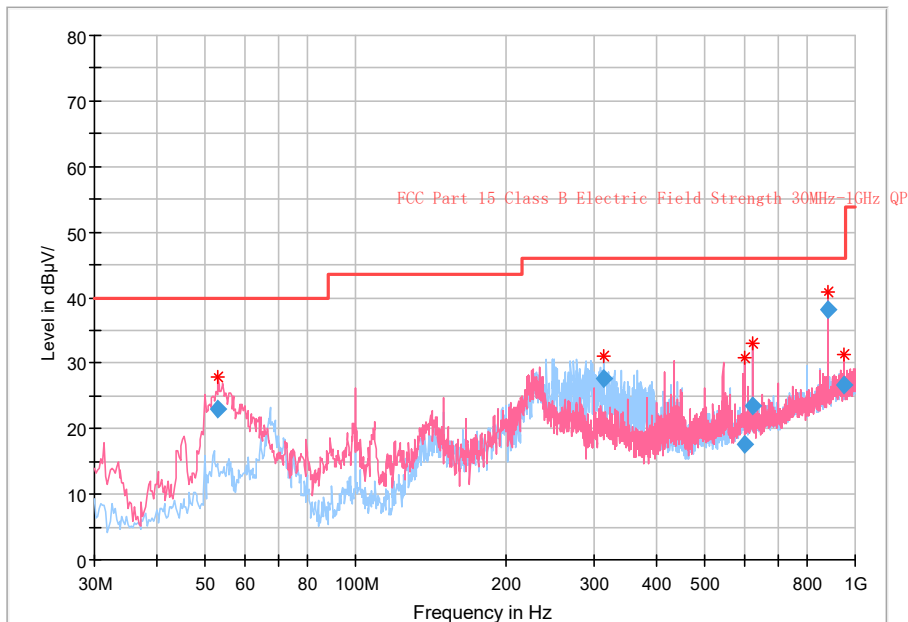
Frequency (MHz)	Reading MaxPeak (dBµV/m)	Reading Average (dBµV/m)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
11352.00	---	53.38	---	36.08	54.00	17.92	1000.0	1000.000	124.9	V	295.0	-17.3
11724.00	---	53.53	---	36.53	54.00	17.47	1000.0	1000.000	176.0	H	66.0	-17.0
14442.40	---	52.99	---	38.89	54.00	15.11	1000.0	1000.000	193.7	H	100.0	-14.1
15876.80	---	56.32	---	41.82	54.00	12.18	1000.0	1000.000	101.0	H	-25.0	-14.5
16974.80	---	58.06	---	45.16	54.00	8.84	1000.0	1000.000	216.9	V	-25.0	-12.9
17582.80	---	57.50	---	45.60	54.00	8.40	1000.0	1000.000	125.0	H	255.0	-11.9

Test Mode	Mode 2	Test Date	2022/07/27
Test Frequency	18000 MHz ~ 40000 MHz	Test Engineer	Chen Rui
Serial Number	863949060004359	Temp, Humidity	23.5°C, 46.1%

There were no emissions above 18GHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o)

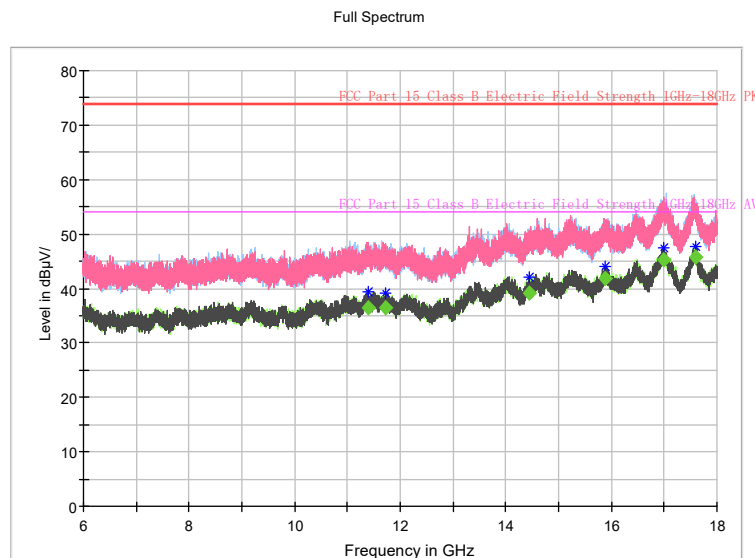
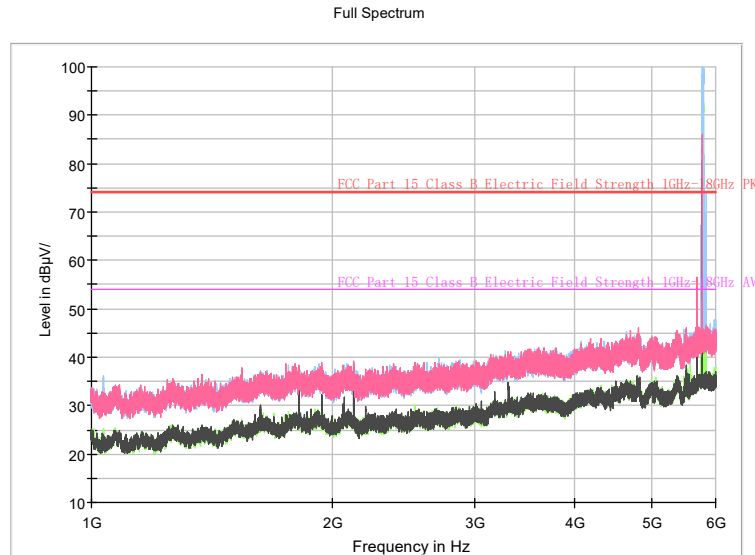
Test Mode	Mode 5	Test Date	2022/07/22
Test Frequency	30 MHz ~ 1000 MHz	Test Engineer	Chen Rui
Serial Number	863949060004359	Temp, Humidity	23.3°C, 47.6%

Full Spectrum



Frequency (MHz)	Reading (dBµV/m)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
53.038	42.65	22.95	40.00	17.05	1000.0	120.000	100.8	V	280.0	-19.7
314.210	44.24	27.54	46.00	18.46	1000.0	120.000	99.8	H	189.0	-16.7
600.118	25.53	17.53	46.00	28.47	1000.0	120.000	287.3	H	295.0	-8.0
625.095	31.21	23.41	46.00	22.59	1000.0	120.000	112.1	H	255.0	-7.8
880.205	41.73	38.23	46.00	7.77	1000.0	120.000	99.8	V	189.0	-3.5
950.045	29.09	26.69	46.00	19.31	1000.0	120.000	100.7	V	255.0	-2.4

Test Mode	Mode 5	Test Date	2022/07/27
Test Frequency	1000 MHz ~ 18000 MHz	Test Engineer	Chen Rui
Serial Number	863949060004359	Temp, Humidity	23.5°C, 46.1%



Frequency (MHz)	Reading MaxPeak (dBuV/m)	Reading Average (dBuV/m)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
11406.80	---	53.59	---	36.49	54.00	17.51	1000.0	1000.000	112.4	V	290.0	-17.1
11725.20	---	53.54	---	36.54	54.00	17.46	1000.0	1000.000	124.9	H	110.0	-17.0
14438.80	---	53.30	---	39.20	54.00	14.80	1000.0	1000.000	101.0	V	76.0	-14.1
15888.00	---	56.43	---	41.93	54.00	12.07	1000.0	1000.000	101.1	H	295.0	-14.5
16985.60	---	58.13	---	45.33	54.00	8.67	1000.0	1000.000	124.9	H	205.0	-12.8
17585.60	---	57.73	---	45.83	54.00	8.17	1000.0	1000.000	125.0	V	205.0	-11.9

<b>Test Mode</b>	Mode 5	<b>Test Date</b>	2022/07/27
<b>Test Frequency</b>	18000 MHz ~ 40000 MHz	<b>Test Engineer</b>	Chen Rui
<b>Serial Number</b>	863949060004359	<b>Temp, Humidity</b>	23.5°C, 46.1%

There were no emissions above 18GHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o)

### 3.2.5. Uncertainty

Radiated Test				
Frequency	Antenna Polarization	Distance	$U_{lab}$	$k$
30MHz-200MHz	Horizontal	3m	4.58 dB	2
	Vertical	3m	4.73 dB	2
200MHz-1GHz	Horizontal	3m	4.90 dB	2
	Vertical	3m	4.93 dB	2
1GHz-6GHz	---	3m	4.66 dB	2
6GHz-18GHz	---	3m	5.14dB	2
18GHz-40GHz	---	3m	4.80dB	2

Determining compliance with the limits shall be based on the results of the compliance measurements, taking into account the considerations on measurement instrumentation uncertainty.

Because  $U_{lab}$  is equal to  $U_{CISPR}$  (as specified in CISPR16-4-2), then:

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

## 4 Test Instruments and Software

### 4.1 Test Instruments

Test Item	Description	Model Name	S / N	Manufacture	Next Cal Date
Radiated Emission	EMI TEST RECERVER	ESR26	101320	R&S	2023/01/11
	Spectrum Analyzer	FSV40	101403	R&S	2023/01/11
	Pre-amplifier	PE15A1009	V00140120181115E825	Pasternack Enterprises	2023/01/11
	Hybrid Antenna	VULB9163	01266	SCHWARZBECK	2023/07/03
	Pre-amplifier	TAP-011858	AP19L806047	TONSCEND	2023/04/01
	Horn Antenna	HF907	100096	R&S	2023/04/01
	Pre-amplifier	SCU40	2046336	R&S	2023/04/01
	Broad-Band Horn Antenna	BBHA9170	797	SCHWARZBECK	2023/04/01
Conducted Emission	EMI TEST RECERVER	ESR26	101320	R&S	2023/01/11
	16 A 2-Line V-Network	ENV216	102328	R&S	2023/01/11
	Pulse Limiter	ESH3-Z2	102457	R&S	2023/01/11
Other	Wireless comprehensive test instrument	CMW500	115895	R&S	2023/01/11

### 4.2 Test Software

Name	Model	Version
Conducted Emission Software	EP9/CE	4.0.070
Radiated Emission Software	EMC32	10.01

--- End of Test Report ---