EMC TEST REPORT

Report Number	BWTR-2223-FCC15B
FCC ID	SRQ-BLADEA52S
Applicant	ZTE CORPORATION
Product Name	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Marketing Name	ZTE Blade A52
Brand Name	ZTE
Model Name	ZTE Blade A52
Serial Number	863210060002533
Test Standard	FCC 47 CFR Part 15 Subpart B
Tested Date	Mar. 18, 2022 - Mar. 22, 2022

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Revision History

Revision	Description	Issued Date
A	Initial issue of report	2022/03/25

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: 高爽 2022.03.25 14:22:04 +08'00'

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Approved by: 赵炯 2022.03.25 18:39:53 +08'00'

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

Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District, Shenzhen, Guangdong, China

2.2 Manufacturer

ZTE CORPORATION

Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District, Shenzhen, Guangdong, China

2.3 Product Feature of Equipment Under Test

Product Name	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Marketing Name	ZTE Blade A52
Model Name	ZTE Blade A52
Sample Status	Production
Power Supply Rating	DC 3.85V
Supported Function	GSM850/PCS1900 WCDMA Band II/IV/V LTE Band 2/4/5/7/13/28/38/66 2.4GHz Bluetooth 2.4GHz WiFi Wired Charging
Antenna Type	Fixed Internal
Cable	1.0m USB Cable
Hardware Version	ZTE Blade A52HW1.0
Software Version	4.0.0_A52_ENT_PE
Sample Received Date	2022/03/16

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.

Accessory	Power Adapter 1
Manufacturer	RUIJING
Model Name	STC-A520A-Z
Input Power	AC100-240V-50/60Hz 400mA
Output Power	DC5V, 2000mA
Serial Number	---

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

Accessory	Power Adapter 2
Manufacturer	ChenYang
Model Name	STC-A520A-Z
Input Power	AC100-240V-50/60Hz 400mA
Output Power	DC5V, 2000mA
Serial Number	---

Accessory	Li-Lon Battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd
Model Name	Li3949T44P8h906450
Capacity	4880mAh
Nominal Voltage	3.85V
Serial Number	---

Accessory	Headset 1
Manufacturer	JUWEI ELECTRONICS CO., LTD
Model Name	JWEP1036-Z01R
Serial Number	---

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

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

Accessory	USB Cable 1
Manufacturer	Shen Zhen Shi Yi HUA XING Electron Co., Ltd
Model Name	USB-MU5-W-70-M-L-2A
Serial Number	---

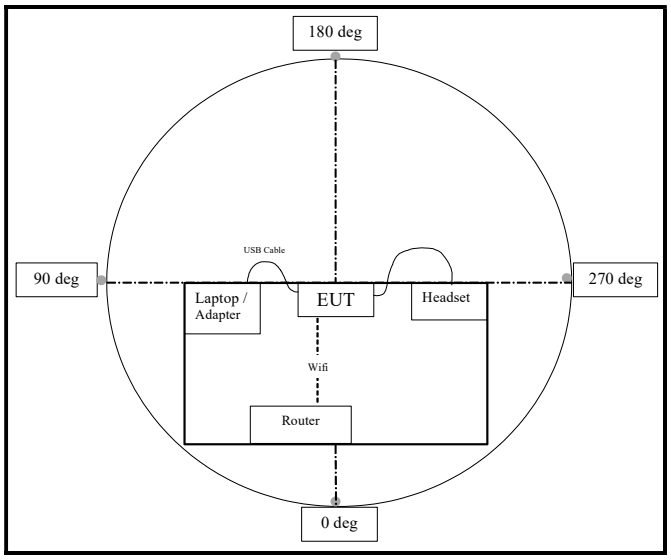
Note: This headset model was selected for test as the worst case.

Accessory	USB Cable 2
Manufacturer	King Power Electronics Co., Ltd
Model Name	USB-MU5-W-70-M-L-2A
Serial Number	---

Support Unit	Wireless Router
Manufacturer	LINKSYS
Model Name	WRT3200ACM
Serial Number	19810609704032

Support Unit	Laptop
Manufacturer	Dell
Model Name	Inspiron 5493
Serial Number	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

Adress: 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
☐ SAC10	10m semi-anechoic chamber	19.5m×12.9m×8.6m	4m×4m
☒ SAC3	3m semi-anechoic chamber	9.6m×6.4m×6.0m	9.6m×6.4m
☒ SR#1	Shielding Room for EMS test	8.1m×4.05m×2.755m	8.1m×4.05m
☐ 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 + 2.4GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	Multimedia Playing (EUT + Power Adapter)
Mode 2	WCDMA + BT + 2.4GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	
Mode 3	LTE + BT + 2.4GHz WiFi + GPS + Playing MP4 (SD card) + Headset + USB Cable + Power Adapter	
Mode 4	GSM850/PCS1900 + BT + 2.4GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	Data Transferring (EUT + Laptop)
Mode 5	WCDMA + BT + 2.4GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	
Mode 6	LTE + BT + 2.4GHz WiFi + GPS + Camera + Headset + USB Cable connected with Laptop	

Note: Pre-Scan has been conducted to determine the worst-case mode: Mode 2 and Mode 5.

3 Test Result

3.1 Conducted Emission

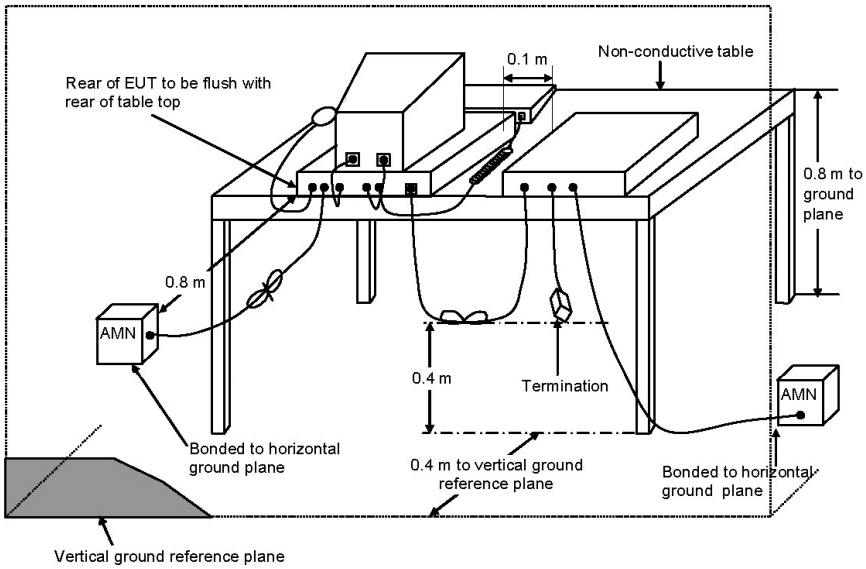
3.1.1. Limits

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 to56
0.5 to 5		56
5 to 30		60
0.15 to 0.5	Average / 9 kHz	56 to46
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

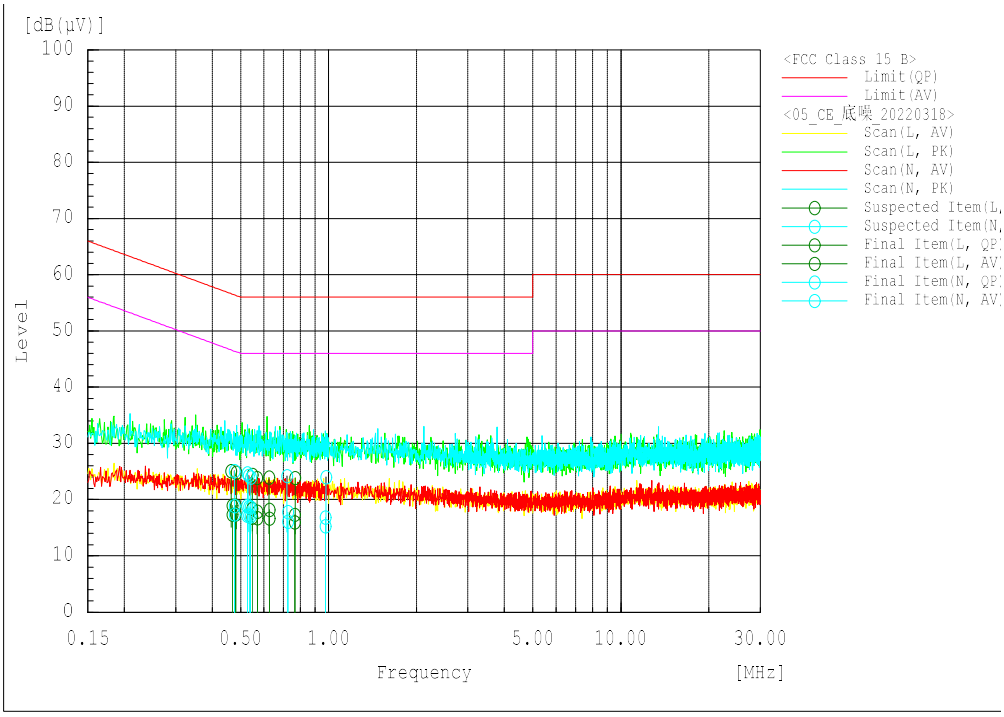


3.1.3. Test Procedures

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.

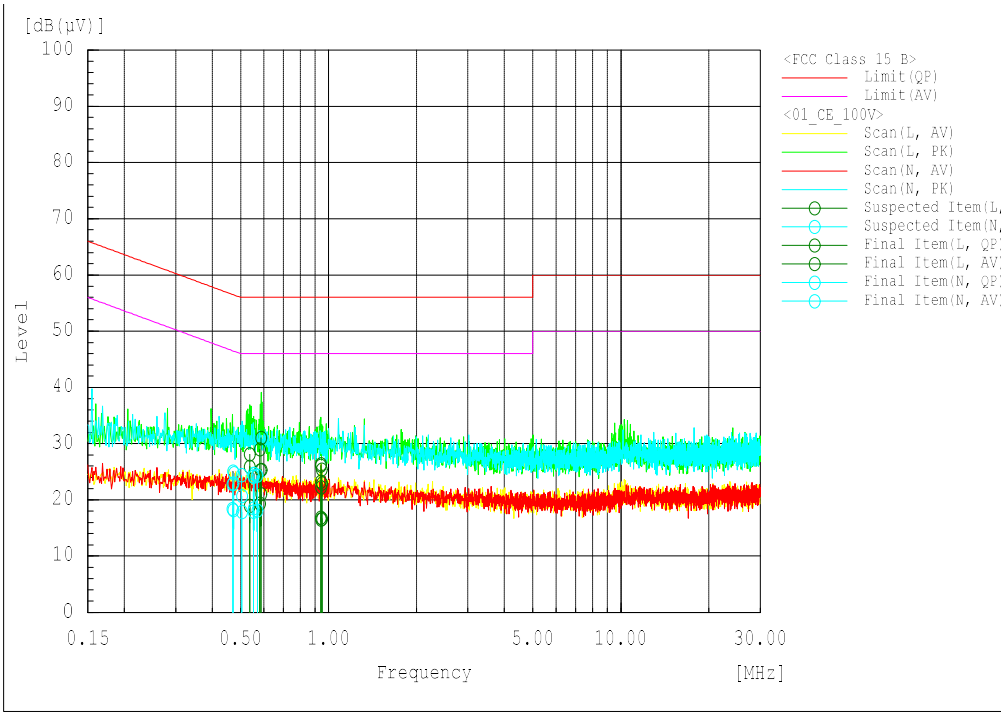
3.1.4. Test Result

Test Mode	Noise	**Test Date**	2022.03.18
Test Frequency	0.15MHz ~ 30MHz	**Test Engineer**	Cai Zengchen
Serial Number	---	**Temp, Humidity**	24.3°C, 51.6%



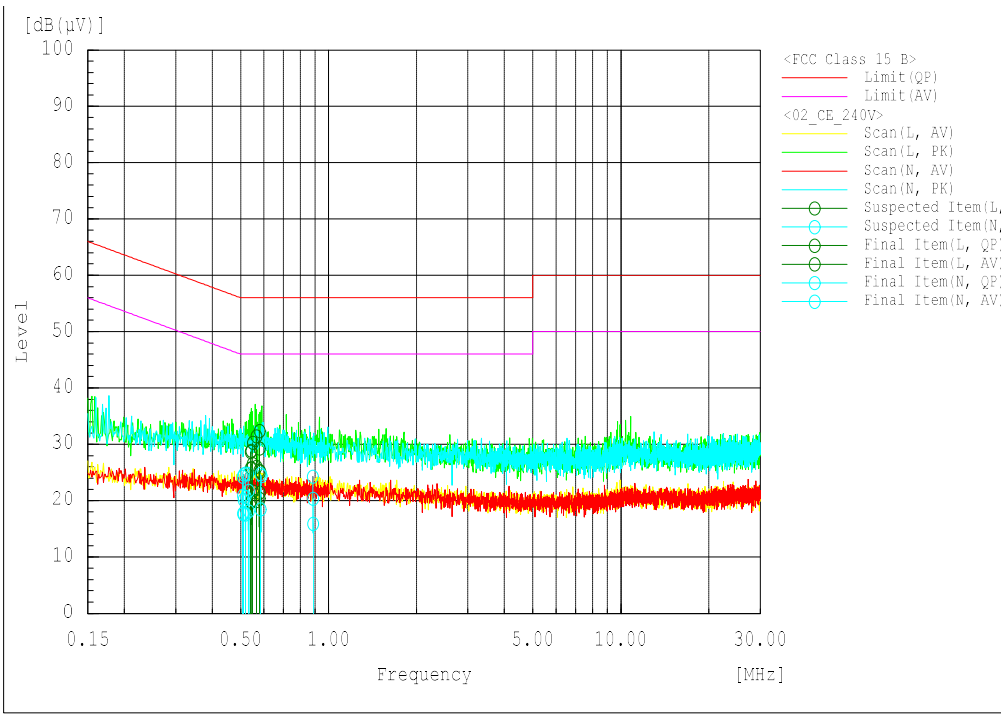
Frequency MHz	Line	Reading dB(µV)		Factor dB	Level dB(µV)		Limit dB(µV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.468	L	-1.0	-2.6	19.9	18.9	17.3	56.5	46.5	37.6	29.2	Pass
0.482	L	-1.0	-2.5	19.9	18.9	17.4	56.3	46.3	37.4	28.9	Pass
0.547	L	-1.5	-3.0	19.9	18.4	16.9	56.0	46.0	37.6	29.1	Pass
0.571	L	-2.0	-3.2	19.9	17.9	16.7	56.0	46.0	38.1	29.3	Pass
0.627	L	-1.7	-3.2	19.9	18.2	16.7	56.0	46.0	37.8	29.3	Pass
0.765	L	-2.5	-3.8	19.8	17.3	16.0	56.0	46.0	38.7	30.0	Pass
0.476	N	-1.0	-2.5	19.9	18.9	17.4	56.4	46.4	37.5	29.0	Pass
0.526	N	-1.1	-2.7	19.9	18.8	17.2	56.0	46.0	37.2	28.8	Pass
0.534	N	-1.2	-2.7	19.9	18.7	17.2	56.0	46.0	37.3	28.8	Pass
0.541	N	-1.3	-2.9	19.9	18.6	17.0	56.0	46.0	37.4	29.0	Pass
0.725	N	-2.0	-3.7	19.8	17.8	16.1	56.0	46.0	38.2	29.9	Pass
0.975	N	-2.9	-4.5	19.8	16.9	15.3	56.0	46.0	39.1	30.7	Pass

Test Mode	Mode 2 - AC 100V	**Test Date**	2022.03.18
Test Frequency	0.15MHz ~ 30MHz	**Test Engineer**	Cai Zengchen
Serial Number	863210060002533	**Temp, Humidity**	24.3℃, 51.6%



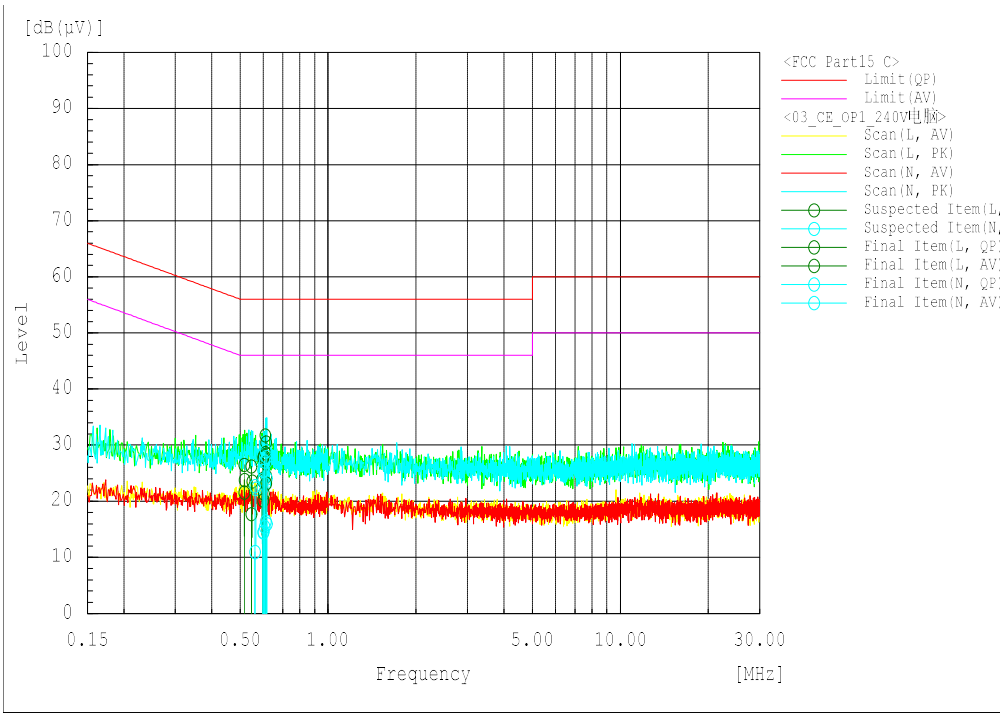
Frequency MHz	**Line**	**Reading dB(µV)**		**Factor dB**	**Level dB(µV)**		**Limit dB(µV)**		**Margin dB**		**Pass/Fail**
		QP	**AV**		**QP**	**AV**	**QP**	**AV**	**QP**	**AV**	
0.537	L	8.2	-0.9	0.537	19.9	28.1	56.0	46.0	27.9	27.0	Pass
0.581	L	9.1	-0.5	0.581	19.9	29.0	56.0	46.0	27.0	26.6	Pass
0.588	L	11.1	1.2	0.588	19.9	31.0	56.0	46.0	25.0	24.9	Pass
0.941	L	3.4	-3.0	0.941	19.8	23.2	56.0	46.0	32.8	29.2	Pass
0.943	L	2.4	-3.3	0.943	19.8	22.2	56.0	46.0	33.8	29.5	Pass
0.949	L	3.1	-3.1	0.949	19.8	22.9	56.0	46.0	33.1	29.3	Pass
0.468	N	2.9	-1.5	0.468	19.9	22.8	56.5	46.5	33.7	28.1	Pass
0.472	N	3.0	-1.7	0.472	19.9	22.9	56.5	46.5	33.6	28.3	Pass
0.505	N	0.8	-2.0	0.505	19.9	20.7	56.0	46.0	35.3	28.1	Pass
0.553	N	4.2	-2.0	0.553	19.9	24.1	56.0	46.0	31.9	28.1	Pass
0.554	N	4.3	-1.4	0.554	19.9	24.2	56.0	46.0	31.8	27.5	Pass
0.571	N	4.4	-1.8	0.571	19.9	24.3	56.0	46.0	31.7	27.9	Pass

Test Mode	Mode 2 - AC 240V	**Test Date**	2022.03.18
Test Frequency	0.15MHz ~ 30MHz	**Test Engineer**	Cai Zengchen
Serial Number	863210060002533	**Temp, Humidity**	24.3℃, 51.6%



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**	
0.511	N	0.2	-2.3	19.9	20.1	17.6	56.0	46.0	35.9	28.4	Pass
0.509	N	1.0	-2.2	19.9	20.9	17.7	56.0	46.0	35.1	28.3	Pass
0.520	N	0.8	-2.3	19.9	20.7	17.6	56.0	46.0	35.3	28.4	Pass
0.533	N	1.9	-1.8	19.9	21.8	18.1	56.0	46.0	34.2	27.9	Pass
0.585	N	4.9	-1.4	19.9	24.8	18.5	56.0	46.0	31.2	27.5	Pass
0.884	N	0.5	-3.9	19.8	20.3	15.9	56.0	46.0	35.7	30.1	Pass
0.540	L	8.7	0.0	19.9	28.6	19.9	56.0	46.0	27.4	26.1	Pass
0.544	L	9.0	-0.1	19.9	28.9	19.8	56.0	46.0	27.1	26.2	Pass
0.550	L	10.4	1.7	19.9	30.3	21.6	56.0	46.0	25.7	24.4	Pass
0.566	L	11.5	0.1	19.9	31.4	20.0	56.0	46.0	24.6	26.0	Pass
0.580	L	9.4	0.4	19.9	29.3	20.3	56.0	46.0	26.7	25.7	Pass
0.580	L	12.5	1.6	19.9	32.4	21.5	56.0	46.0	23.6	24.5	Pass

Test Mode	Mode 5	**Test Date**	2022.03.18
Test Frequency	0.15MHz ~ 30MHz	**Test Engineer**	Cai Zengchen
Serial Number	863210060002533	**Temp, Humidity**	24.3°C, 51.6%



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	
0.152	N	30.4	12.5	20.0	50.4	32.5	65.9	55.9	15.5	23.4	Pass
0.157	N	30.5	14.0	20.0	50.5	34.0	65.6	55.6	15.1	21.6	Pass
0.192	N	30.2	16.9	19.9	50.1	36.8	64.0	54.0	13.9	17.2	Pass
14.91	N	20.4	12.4	20.0	40.4	32.4	60.0	50.0	19.6	17.6	Pass
17.17	N	20.3	8.7	20.0	40.3	28.7	60.0	50.0	19.7	21.3	Pass
17.24	N	22.2	11.9	20.0	42.2	31.9	60.0	50.0	17.8	18.1	Pass
0.193	L	26.9	14.0	20.0	46.9	34.0	63.9	53.9	17.0	19.9	Pass
0.192	L	30.5	16.8	20.0	50.5	36.8	63.9	53.9	13.4	17.1	Pass
0.196	L	30.4	15.8	20.0	50.4	35.8	63.8	53.8	13.4	18.0	Pass
0.307	L	16.6	5.3	20.0	36.6	25.3	60.0	50.0	23.4	24.7	Pass
14.69	L	19.1	10.6	20.0	39.1	30.6	60.0	50.0	20.9	19.4	Pass
17.62	L	20.6	10.3	20.0	40.6	30.3	60.0	50.0	19.4	19.7	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

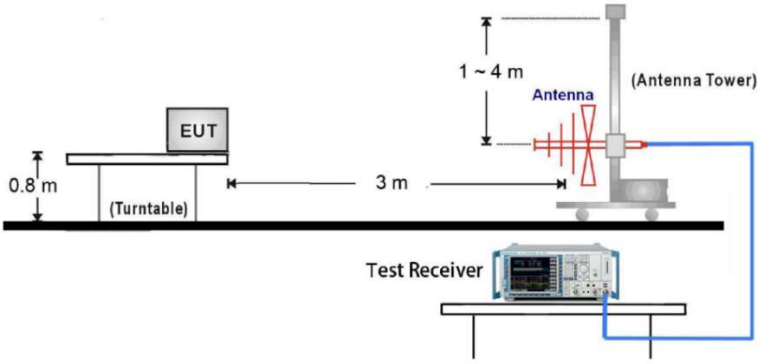
FCC 47 CFR Part 15 Subpart B - §15.109 (a)

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

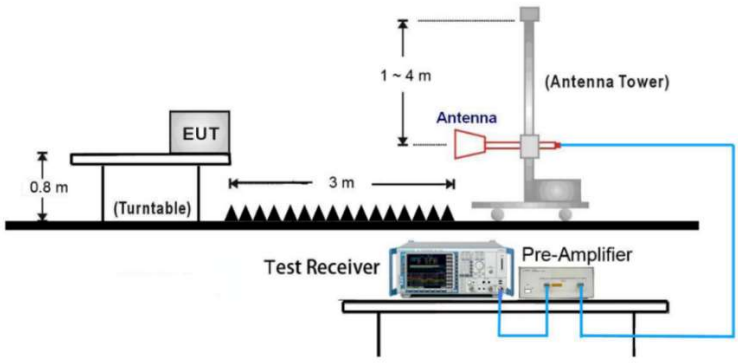
Frequency (MHz)	Class B Limits dBuV/m		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

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

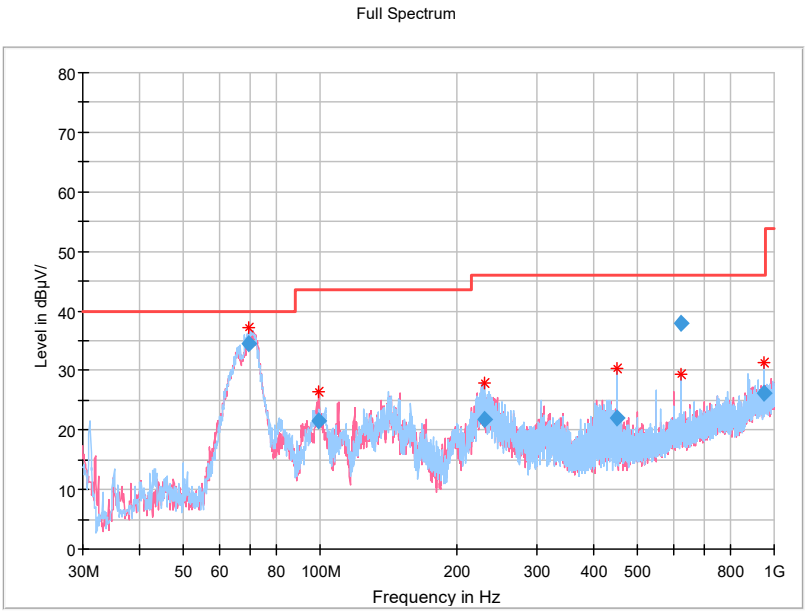
3.2.3. Test Procedures

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

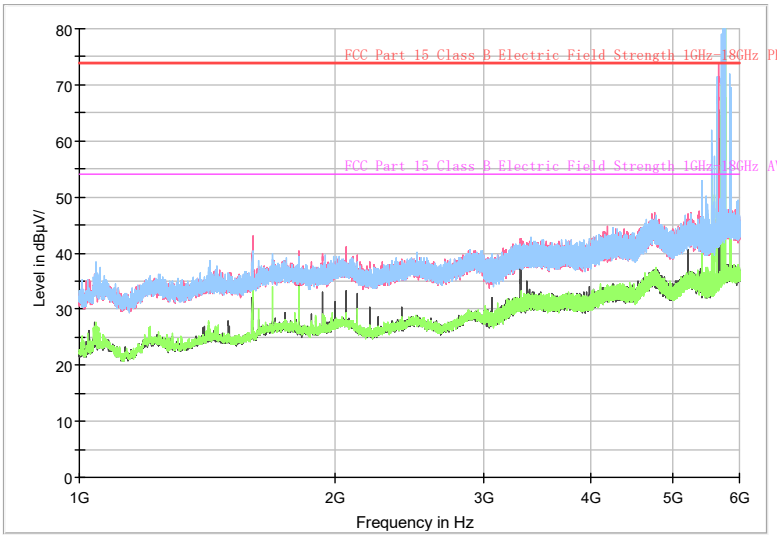
Test Mode	Mode 2	**Test Date**	2022.03.22
Test Frequency	30 MHz ~ 1000 MHz	**Test Engineer**	Gao Shuang
Serial Number	863210060002533	**Temp, Humidity**	24.5°C, 51.8%



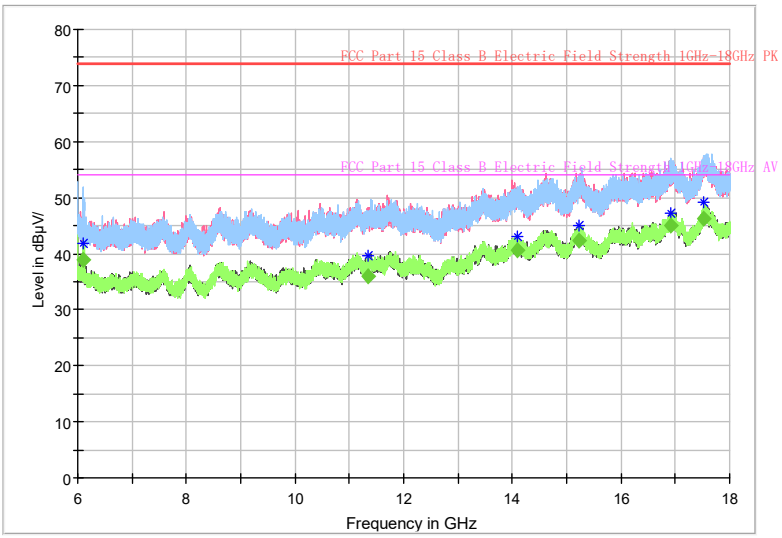
Frequency (MHz)	Reading (dBuV/m)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.770	58.17	34.57	40.00	5.43	1000.0	120.000	174.7	V	86.0	-23.6
99.355	42.57	21.57	43.50	21.93	1000.0	120.000	124.7	V	20.0	-21.0
229.335	41.05	21.75	46.00	24.25	1000.0	120.000	107.5	H	115.0	-19.3
450.010	34.58	21.98	46.00	24.02	1000.0	120.000	99.9	H	-14.0	-12.6
624.998	45.60	37.80	46.00	8.20	1000.0	120.000	124.7	H	65.0	-7.8
950.045	28.54	26.14	46.00	19.86	1000.0	120.000	99.8	V	25.0	-2.4

Test Mode	Mode 2	**Test Date**	2022.03.22
Test Frequency	1000 MHz ~ 18000 MHz	**Test Engineer**	Gao Shuang
Serial Number	863210060002533	**Temp, Humidity**	24.5℃, 51.8%

Full Spectrum

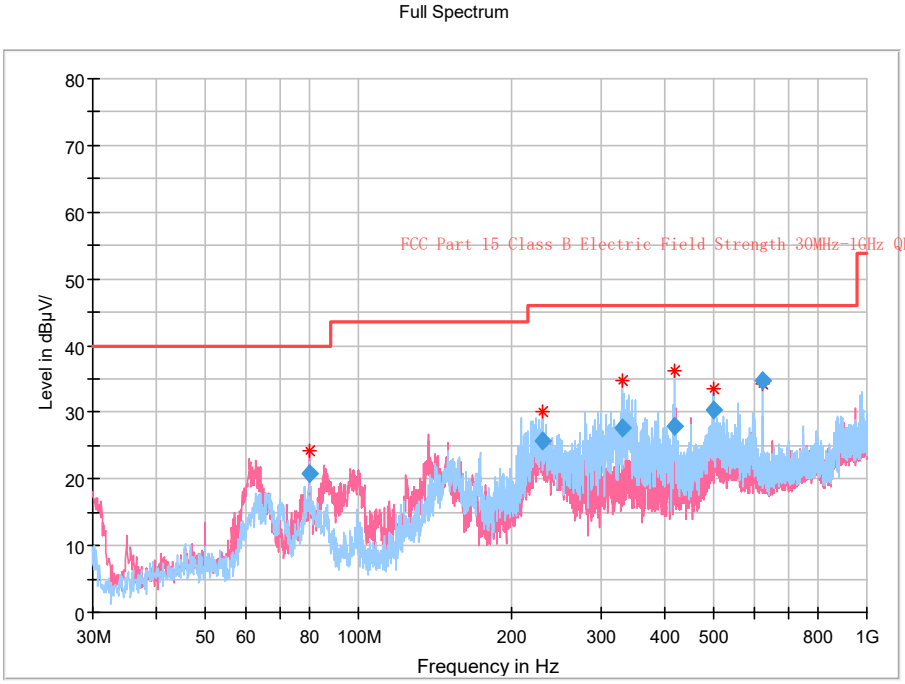


Full Spectrum



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)
7416.800000	---	53.74	---	32.54	54.00	21.46	1000.0	1000.000	124.9	H	156.0	-21.2
9260.000000	---	53.79	---	34.49	54.00	19.51	1000.0	1000.000	206.6	H	157.0	-19.3
11111.200000	---	51.33	---	37.03	54.00	16.97	1000.0	1000.000	224.8	V	165.0	-14.3
13323.200000	---	53.95	---	40.85	54.00	13.15	1000.0	1000.000	99.9	V	201.0	-13.1
15158.000000	---	53.89	---	46.89	54.00	7.11	1000.0	1000.000	224.9	H	20.0	-7
16773.600000	---	54.14	---	46.74	54.00	7.26	1000.0	1000.000	224.9	V	156.0	-7.4

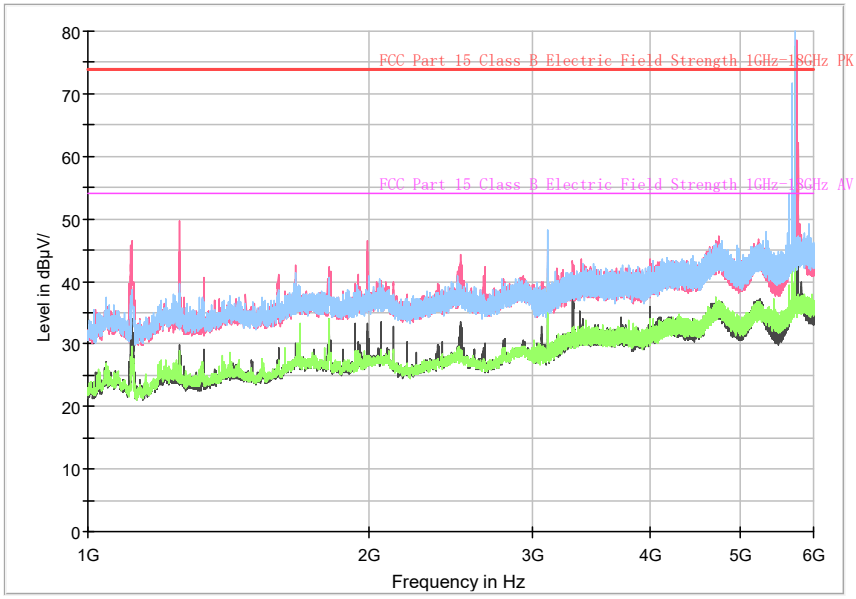
Test Mode	Mode 5	**Test Date**	2022.03.22
Test Frequency	30 MHz ~ 1000 MHz	**Test Engineer**	Gao Shuang
Serial Number	863210060002533	**Temp, Humidity**	24.5℃, 51.8%



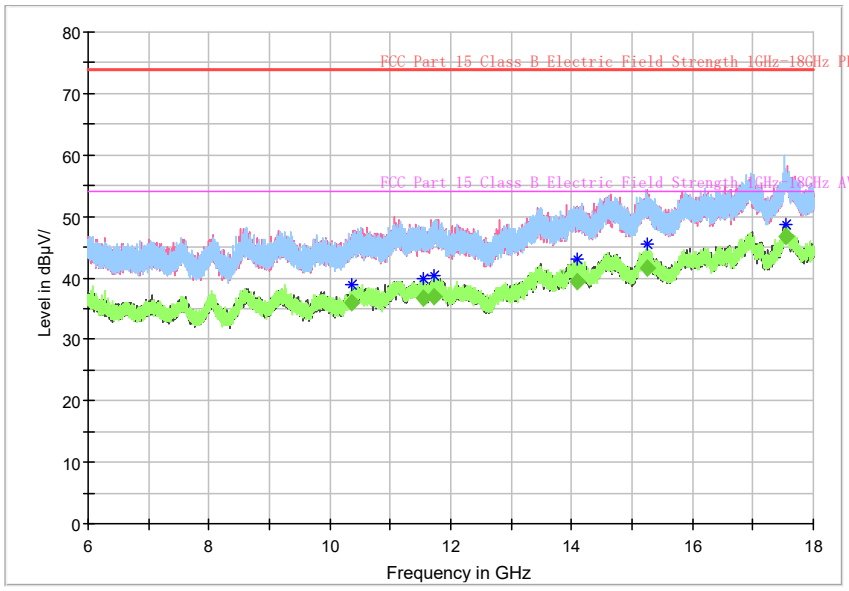
Frequency (MHz)	Reading (dBuV/m)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
80.052	46.88	20.68	40.00	19.32	1000.0	120.000	186.3	V	99.0	-26.2
229.820	44.89	25.59	46.00	20.41	1000.0	120.000	100.9	H	198.0	-19.3
329.827	43.58	27.68	46.00	18.32	1000.0	120.000	100.7	H	280.0	-15.9
419.455	41.05	27.95	46.00	18.05	1000.0	120.000	293.1	H	88.0	-13.1
499.868	41.53	30.43	46.00	15.57	1000.0	120.000	174.7	H	267.0	-11.1
624.998	42.66	34.86	46.00	11.14	1000.0	120.000	294.7	H	278.0	-7.8

Test Mode	Mode 5	**Test Date**	2022.03.22
Test Frequency	1000 MHz ~ 18000 MHz	**Test Engineer**	Gao Shuang
Serial Number	863210060002533	**Temp, Humidity**	24.5°C, 51.8%

Full Spectrum



Full Spectrum



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)
10351.200	---	55.25	---	35.85	54.00	18.15	1000.0	1000.000	205.3	H	10.0	-19.4
11550.400	---	53.52	---	36.62	54.00	17.38	1000.0	1000.000	299.2	V	176.0	-16.9
11716.000	---	53.91	---	36.91	54.00	17.09	1000.0	1000.000	125.0	H	155.0	-17.0
14083.600	---	53.67	---	39.27	54.00	14.73	1000.0	1000.000	106.8	H	-24.0	-14.4
15258.400	---	55.80	---	41.70	54.00	12.30	1000.0	1000.000	224.9	H	267.0	-14.1
17548.800	---	58.55	---	46.65	54.00	7.35	1000.0	1000.000	311.0	H	100.0	-11.9

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

Test Item	Description	Model Name	S / N	Manufacture	Next Cal Date
Radiated Emission	EMI TEST RECERVER	ESR26	101320	R&S	2023/01/11
	Pre-amplifier	PE15A1009	V00140120181115E825	Pasternack Enterprises	2023/01/11
	Hybrid Antenna	VULB9163	01266	SCHWARZBECK	2022/07/03
	Pre-amplifier	TAP-011858	AP19L806047	TONSCEND	2022/04/01
	Horn Antenna	HF907	100096	R&S	2022/04/01
	Pre-amplifier	SCU40	2046336	R&S	2022/04/01
	Broad-Band Horn Antenna	BBHA9170	797	SCHWARZBECK	2022/04/01
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

--- End of Test Report ---