


# TEST REPORT

**Application No:** ZR/2020/70033  
**Applicant:** Motorola Mobility LLC  
**Address of Applicant:** 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA  
**Manufacturer:** Motorola Mobility LLC  
**Address of Manufacturer:** 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA  
**EUT Description:** Mobile Cellular Phone  
**Model No.:** XT2081-3  
**Type name:** MC368  
**Trade Mark:** Motorola  
**FCC ID:** IHDT56ZD8  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2020/7/18  
**Date of Test:** 2020/7/18 to 2020/8/7  
**Date of Issue:** 2021/8/16

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Simon Ling

Wireless Laboratory Manager





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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020/8/18		Original
02		2021/5/25	Leah Chen	1. Modify data conversion error of antenna height 2.Update equipment list
03		2021/8/16	Leah Chen	1. Update Support Units, Test facility and Test Location

\* This report supersedes our previous report ZR/2020/7003307, issued on 2020/8/18, which is hereby deemed null and void.

<b>Authorized for issue by:</b>	
<b>Prepared By</b>	 <hr/> <b>(Leah Chen) /Engineer</b>
<b>Checked By</b>	 <hr/> <b>(Daniel Wang) /Reviewer</b>



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## Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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# 1 General Information

Product Name:	Mobile Cellular Phone		
Type Name:	MC368		
Model No.(EUT):	XT2081-3		
Trade Mark:	Motorola		
Hardware Version:	PVT		
Software Version:	QPZ30.30-Q3		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	Wi-Fi 2.4G	2412~2472	2412~2472
	Bluetooth	2402~2480	2402~2480
FM	/	88~108	

Battery			
Battery1	ATL	JK50	3.8V; 5000mAh
Battery2	Sunwoda	JK50	3.8V; 5000mAh
USB Cable			
USB Cable1	Yihuaxing	T365-005B	1.0m non-shielded cable without core
USB Cable2	SUNTOPS	336229	1.0m non-shielded cable without core
Adapter			
Adapter1	Chenyang	SC-41 (US)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	SC-42 (EU)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	SC-43 (UK)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	SC-46 (AR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Adapter2	Acbel	SC-41 (US)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Acbel	SC-42 (EU)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Acbel	SC-46 (AR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Adapter3	Salom	SC-41 (US)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA



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			5Vdc 2000mA
	Salom	SC-42 (EU)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Salom	SC-46 (AR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Salom	SC-47 (BR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Salom/Flex	SC-47 (BR Local build)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Adapter4	Chenyang	MC-101(US)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	MC-102(EU)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	MC-103(UK)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	MC-106(AR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
	Chenyang	MC-107(BR)	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA

### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

### 1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271.**

### 1.4 Deviation from Standards

None

### 1.5 Abnormalities from Standard Conditions

None



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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- d: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone2+battery2+ Cable(worst)+adapter2
- e: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter4
- g: GSM 850 Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- h: WCDMA Band V Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)
- i: LTE Band 5 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)
- j: LTE Band 26 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)

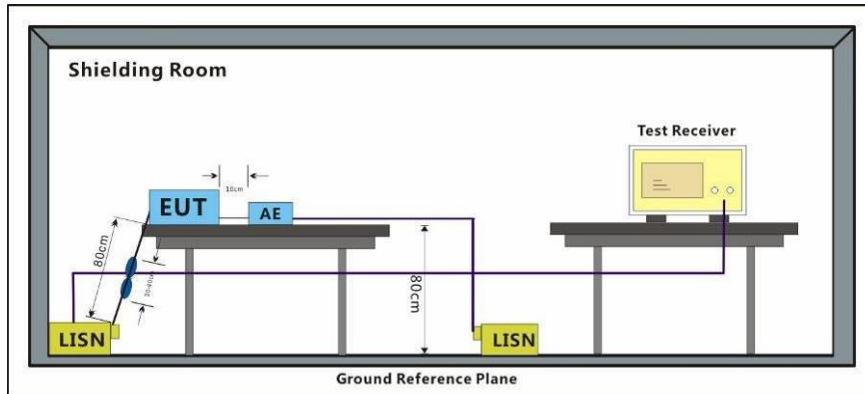
The worst case for final test:

- c: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1



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**2.1.2 Test Setup Diagram**



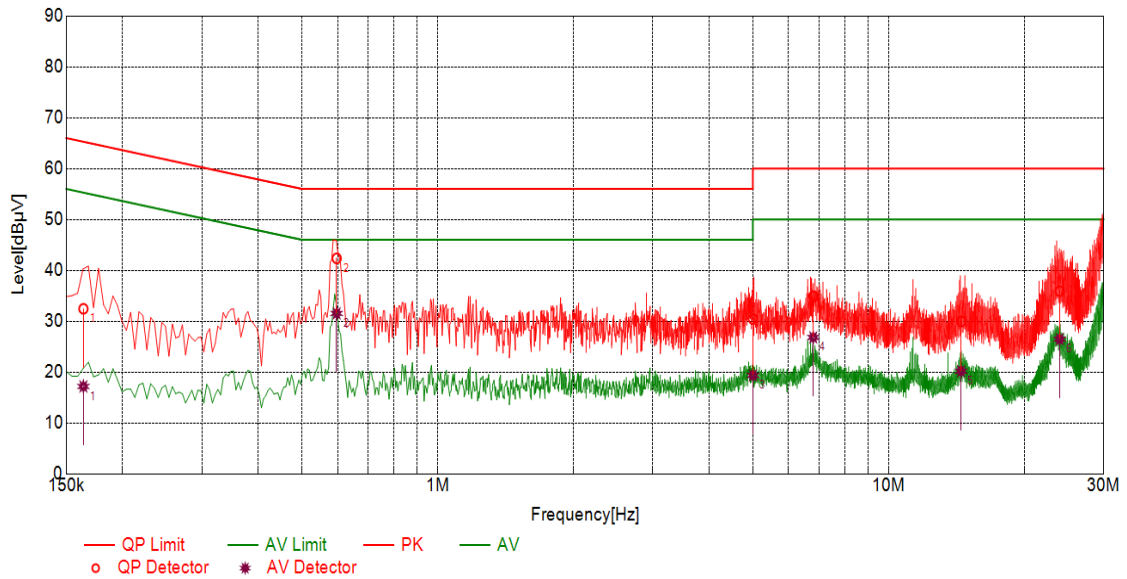
**2.1.3 Measurement Data**

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:c; Line:Live Line



**Test Graph**

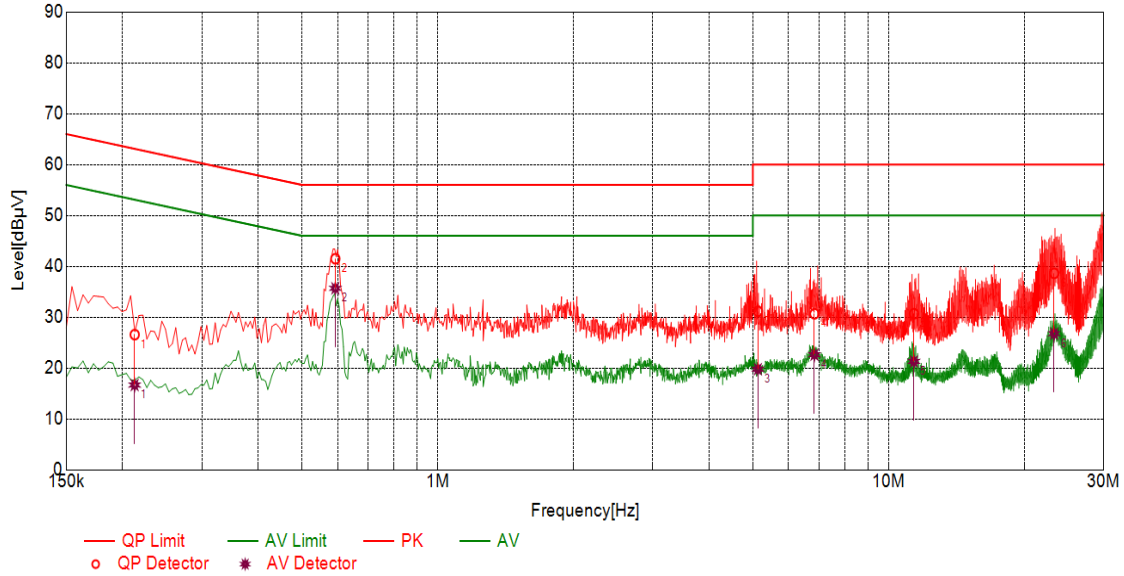
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1638	10.10	32.44	65.27	32.83	17.17	55.27	38.10	L
2	0.5970	10.10	42.35	56.00	13.65	31.53	46.00	14.47	L
3	5.0006	10.10	30.43	60.00	29.57	19.35	50.00	30.65	L
4	6.8061	10.10	34.94	60.00	25.06	26.81	50.00	23.19	L
5	14.4790	10.11	29.95	60.00	30.05	20.17	50.00	29.83	L
6	23.9536	10.11	35.91	60.00	24.09	26.46	50.00	23.54	L



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Mode:c; Line:Neutral Line



**Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.2128	10.10	26.58	63.09	36.51	16.67	53.09	36.42	N
2	0.5929	10.10	41.49	56.00	14.51	35.68	46.00	10.32	N
3	5.1308	10.10	31.15	60.00	28.85	19.78	50.00	30.22	N
4	6.8475	10.10	30.67	60.00	29.33	22.63	50.00	27.37	N
5	11.3831	10.10	30.68	60.00	29.32	21.31	50.00	28.69	N
6	23.2926	10.11	38.63	60.00	21.37	26.77	50.00	23.23	N



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## 2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B  
Test Method: ANSI C63.4:2014  
Frequency Range: 30MHz to 1GHz  
Measurement Distance: 3m  
Limit:  
30MHz -88MHz 40.0(dBμV/m) quasi-peak  
88MHz-216MHz 43.5(dBμV/m) quasi-peak  
216MHz-960MHz 46.0(dBμV/m) quasi-peak  
960MHz-1000MHz 54.0(dBμV/m) quasi-peak  
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- d: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone2+battery2+ Cable(worst)+adapter2
- e: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter4
- g: GSM 850 Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- h: WCDMA Band V Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)
- i: LTE Band 5 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)
- j: LTE Band 26 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)

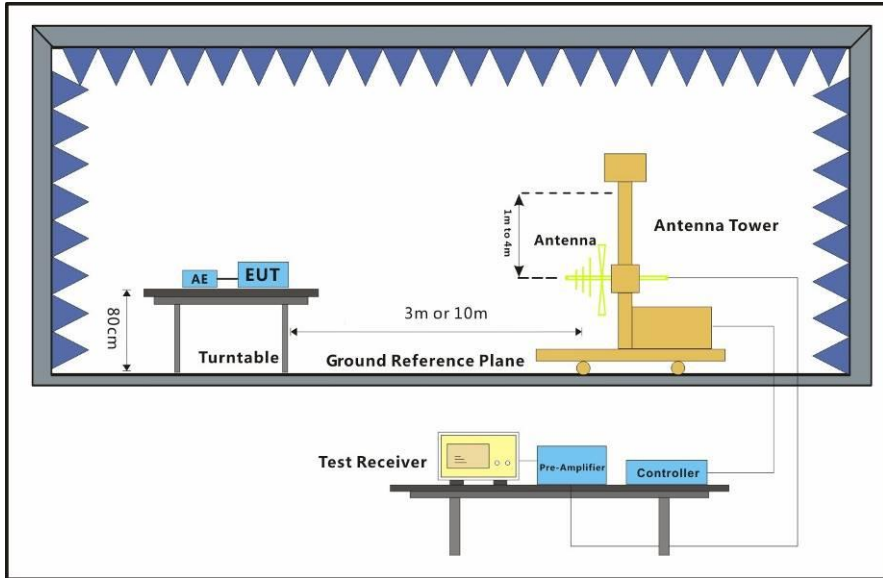
The worst case for final test:

- b: Transfer data between the EUT and the PC+USB cable2



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**2.2.2 Test Setup Diagram**



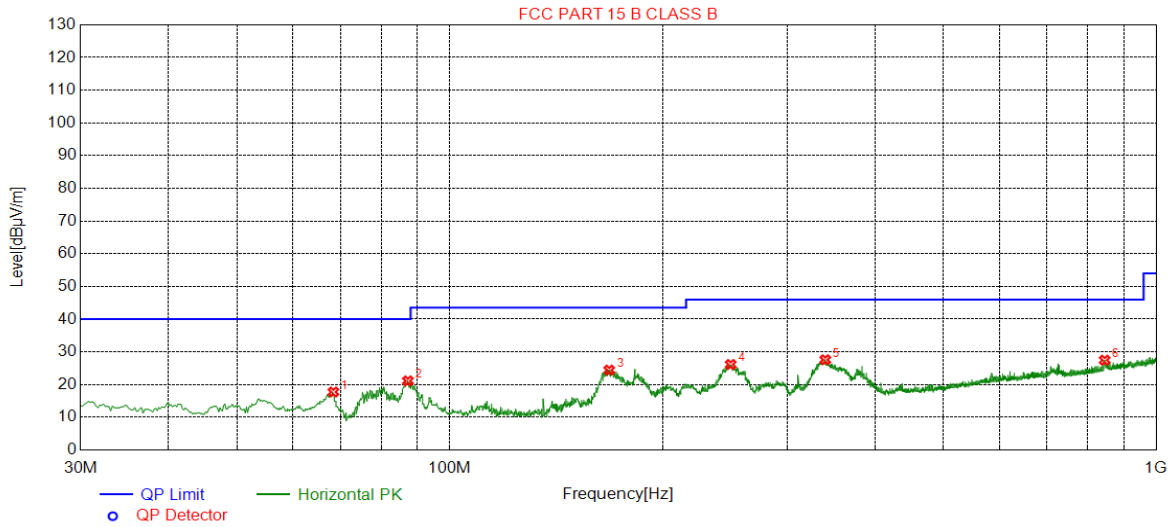
**2.2.3 Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:b; Polarization:Horizontal



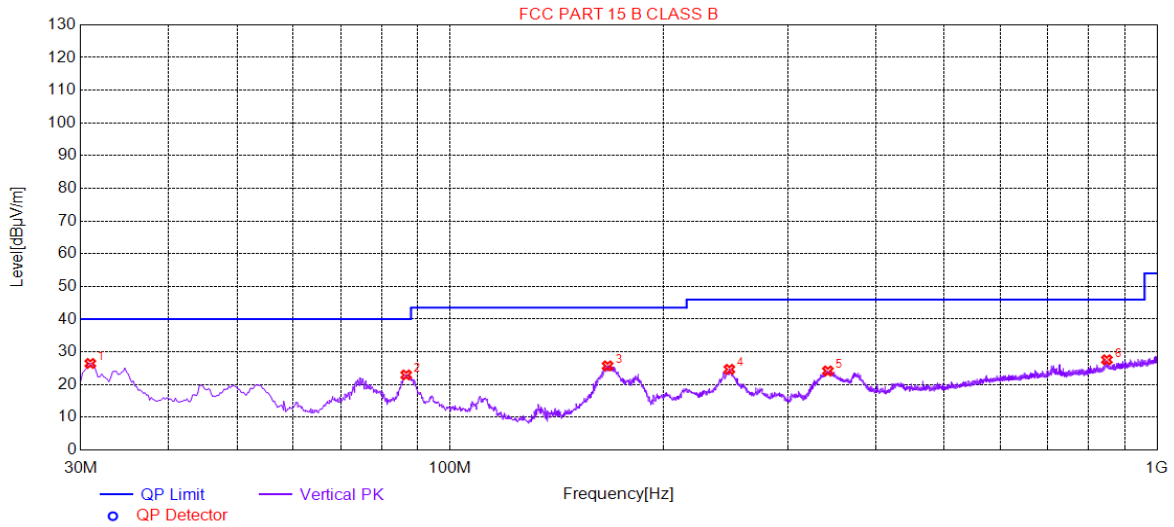
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	68.4197	17.74	-34.00	40.00	22.26	214	249	Horizontal
2	87.2414	21.13	-34.39	40.00	18.87	203	217	Horizontal
3	168.155	24.44	-34.15	43.50	19.06	224	208	Horizontal
4	249.846	26.15	-29.67	46.00	19.85	230	223	Horizontal
5	340.074	27.60	-27.13	46.00	18.40	156	332	Horizontal
6	845.545	27.48	-16.96	46.00	18.52	247	14	Horizontal



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Mode:b; Polarization:Vertical



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9702	26.47	-30.06	40.00	13.53	261	14	Vertical
2	86.6593	22.96	-34.53	40.00	17.04	286	90	Vertical
3	166.991	25.72	-34.22	43.50	17.78	260	349	Vertical
4	248.293	24.67	-29.73	46.00	21.33	275	352	Vertical
5	342.208	24.18	-27.07	46.00	21.82	151	300	Vertical
6	849.037	27.59	-16.90	46.00	18.41	278	278	Vertical



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**2.3 Radiated Emissions (above 1GHz)**

Test Requirement: 47 CFR Part 15, Subpart B  
 Test Method: ANSI C63.4:2014  
 Frequency Range: Above 1GHz  
 Measurement Distance: 3m  
 Limit:  
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average  
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

**2.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

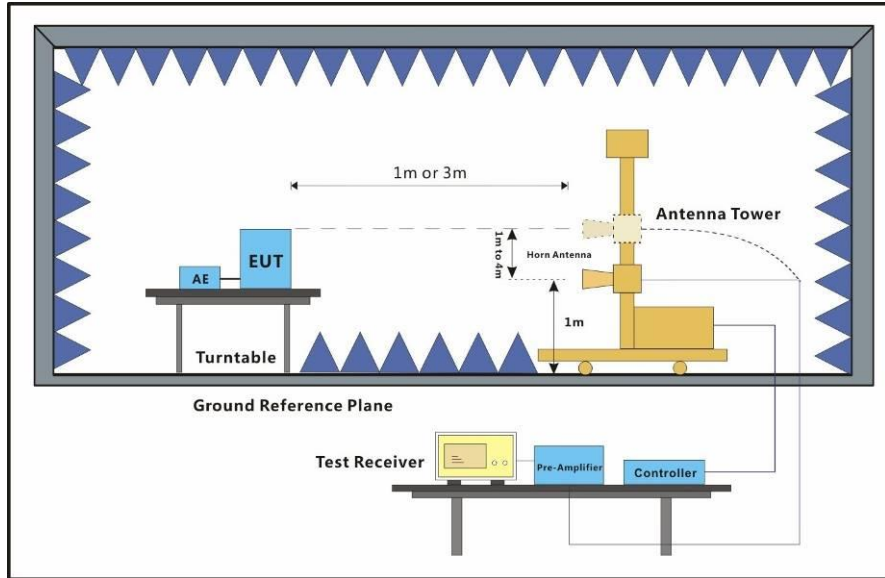
- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- d: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone2+battery2+ Cable(worst)+adapter2
- e: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter4
- g: GSM 850 Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- h: WCDMA Band V Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)
- i: LTE Band 5 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)
- j: LTE Band 26 Idle+BT+WLAN +GPS Rx+earphone+battery+ Cable(worst)+adapter(Worst)
- g: GSM 850 Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter5

The worst case for final test:



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**2.3.2 Test Setup Diagram**



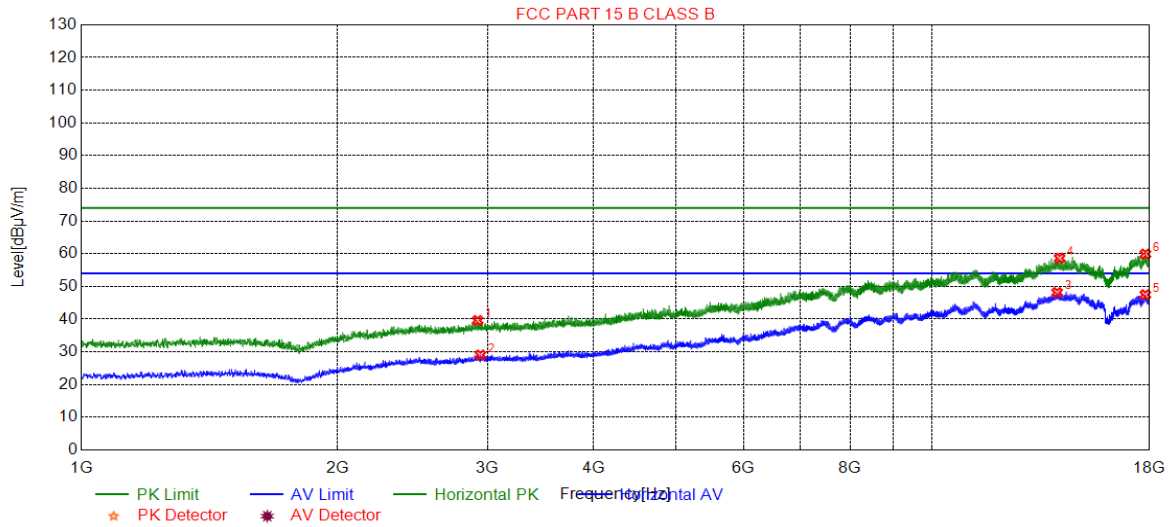
**2.3.3 Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



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Mode:g; Polarization:Horizontal



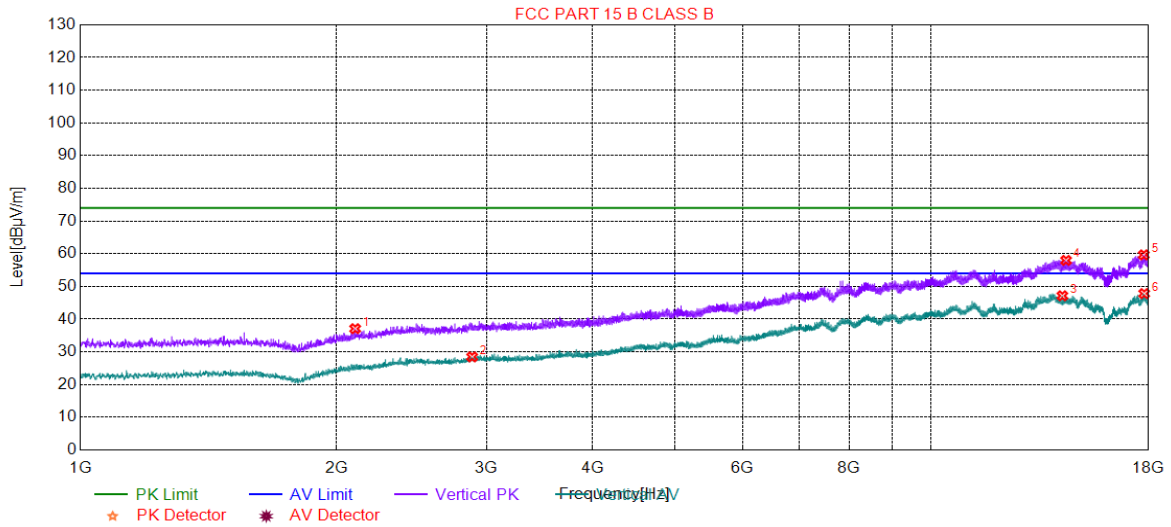
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.09	39.61	-24.70	74.00	34.39	131	204	Horizontal
2	2944.04	29.06	-24.65	54.00	24.94	200	192	Horizontal
3	14014.1	48.16	2.26	54.00	5.84	104	40	Horizontal
4	14109.3	58.64	2.33	74.00	15.36	109	268	Horizontal
5	17788.3	47.49	0.73	54.00	6.51	221	53	Horizontal
6	17793.4	59.93	0.71	74.00	14.07	239	129	Horizontal



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Mode:g; Polarization:Vertical



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2103.35	37.10	-27.84	74.00	36.90	158	281	Vertical
2	2886.24	28.47	-24.81	54.00	25.53	151	244	Vertical
3	14253.0	47.16	1.95	54.00	6.84	153	41	Vertical
4	14395.8	57.98	1.96	74.00	16.02	170	281	Vertical
5	17767.0	59.67	0.80	74.00	14.33	277	244	Vertical
6	17785.7	47.83	0.74	54.00	6.17	284	92	Vertical



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### 3 Equipment List

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-03	2019-12-11	2020-12-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01



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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR202070033

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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