



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: 2020/8/18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang

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

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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

Checked By

David Chen

David Chen
Reviewer

Test By

Daniel Wang

Daniel Wang
Project Engineer

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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

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			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
	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.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Xi'an Branch
Address:	Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, Shaanxi China
Post code:	710000
Telephone:	+86 (0) 29 6282 7885
Fax:	+86 (0) 29 6282 7885
E-mail:	ee.xian@sgs.com

No tests were sub-contracted.

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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 CO., LTD. XIAN BRANCH

is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None

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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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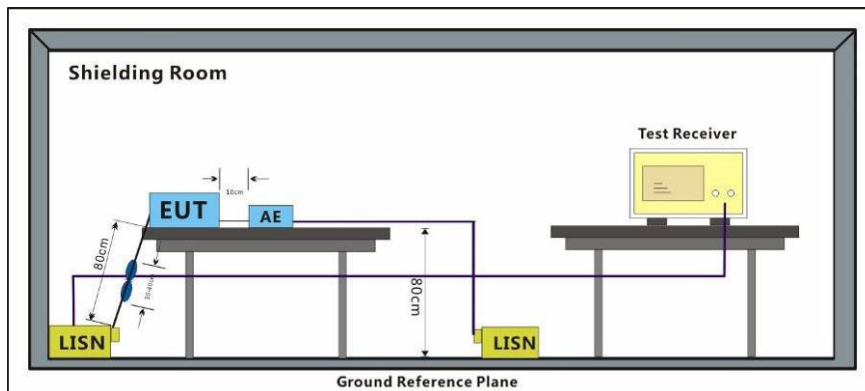
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2.1.2 Test Setup Diagram



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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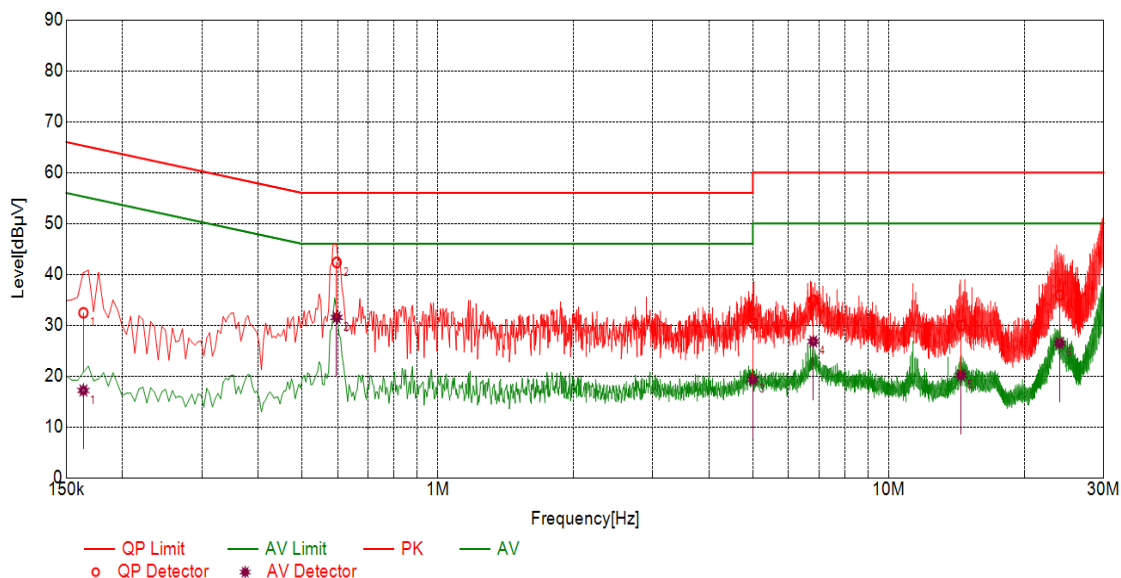
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Mode:c; Line:Live Line



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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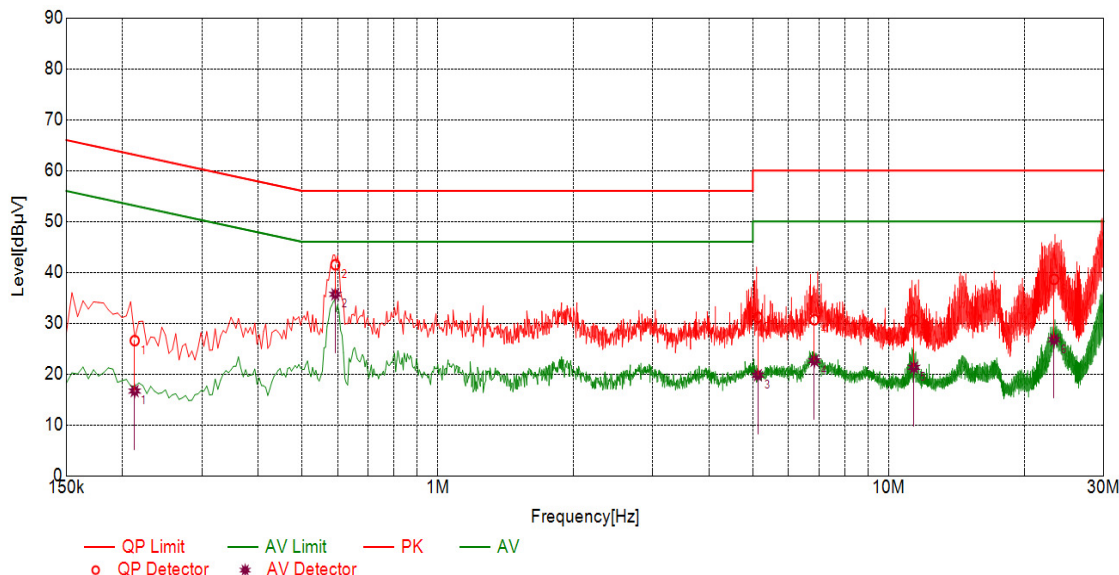
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Mode:c; Line:Neutral Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dB-μV]	QP Limit [dB-μV]	QP Margin [dB]	AV Value [dB-μV]	AV Limit [dB-μV]	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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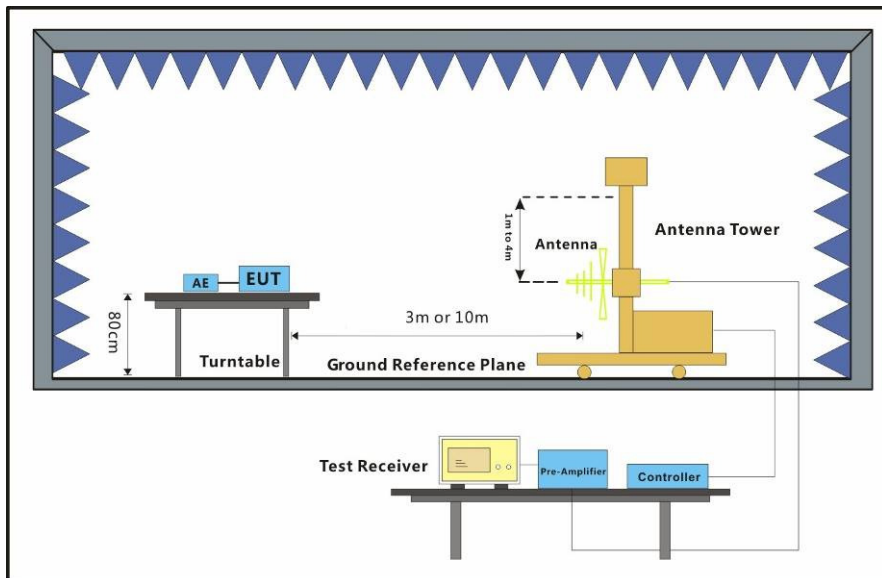
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2.2.2 Test Setup Diagram



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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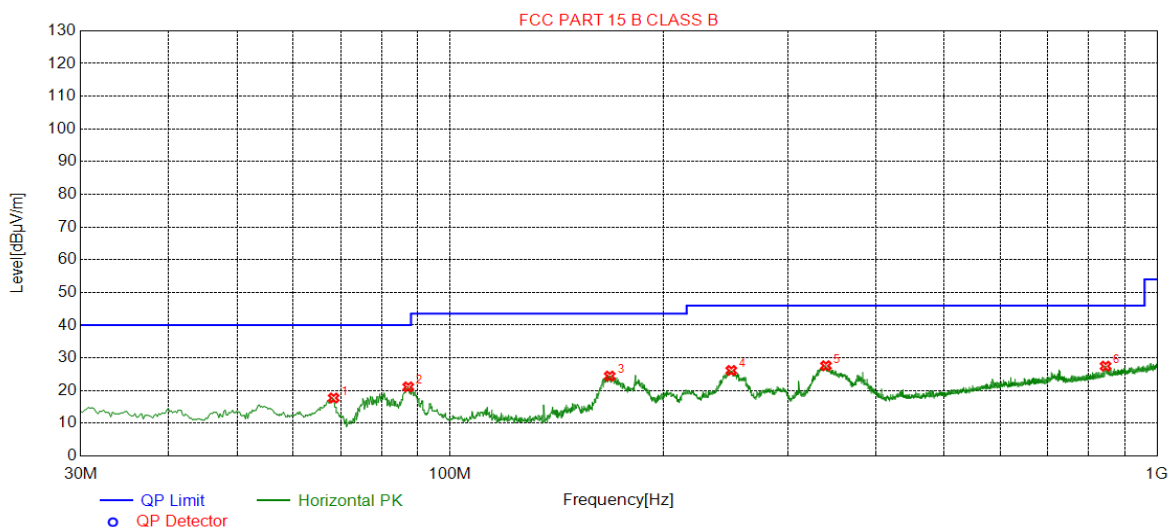
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Mode:b; Polarization:Horizontal

**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	100	249	Horizontal
2	87.2414	21.13	-34.39	40.00	18.87	200	217	Horizontal
3	168.155	24.44	-34.15	43.50	19.06	200	208	Horizontal
4	249.846	26.15	-29.67	46.00	19.85	100	223	Horizontal
5	340.074	27.60	-27.13	46.00	18.40	100	332	Horizontal
6	845.545	27.48	-16.96	46.00	18.52	100	14	Horizontal

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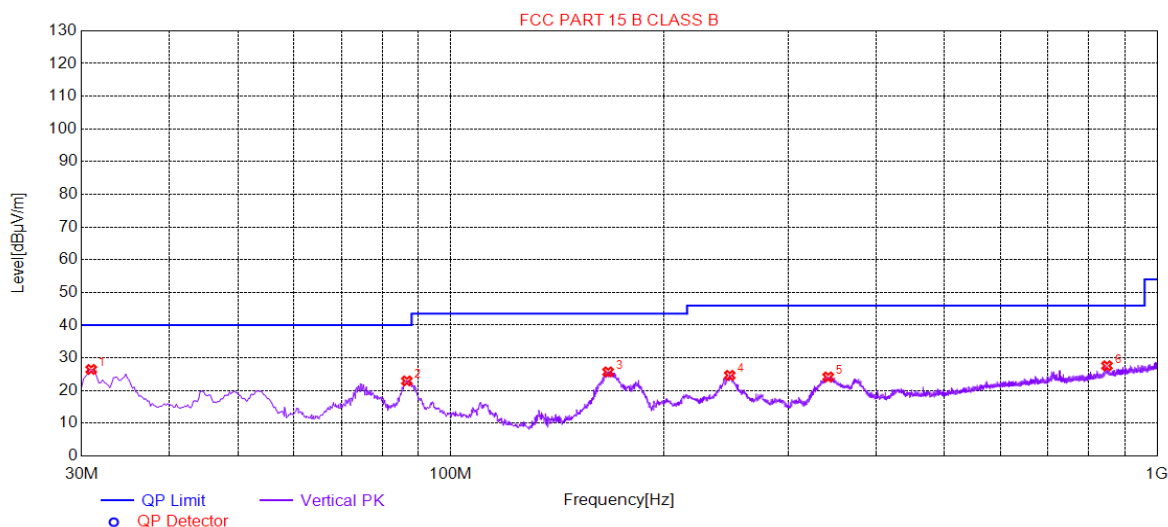
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Mode:b; Polarization:Vertical

**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	100	14	Vertical
2	86.6593	22.96	-34.53	40.00	17.04	100	90	Vertical
3	166.991	25.72	-34.22	43.50	17.78	100	349	Vertical
4	248.293	24.67	-29.73	46.00	21.33	100	352	Vertical
5	342.208	24.18	-27.07	46.00	21.82	200	300	Vertical
6	849.037	27.59	-16.90	46.00	18.41	100	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)

The worst case for final test: g: GSM 850 Idle+BT+WLAN +GPS Rx+earphone(worst)+battery(worst)+ Cable(worst)+adapter5

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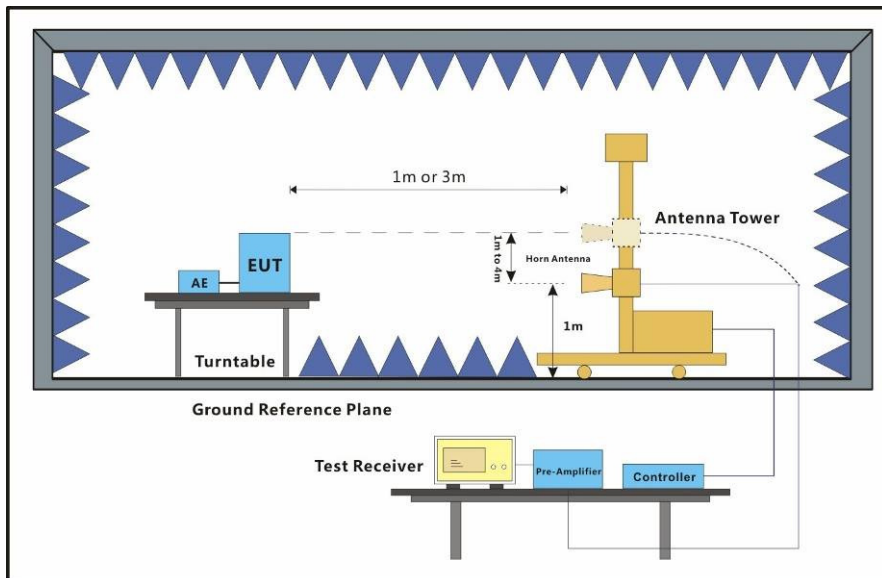
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2.3.2 Test Setup Diagram



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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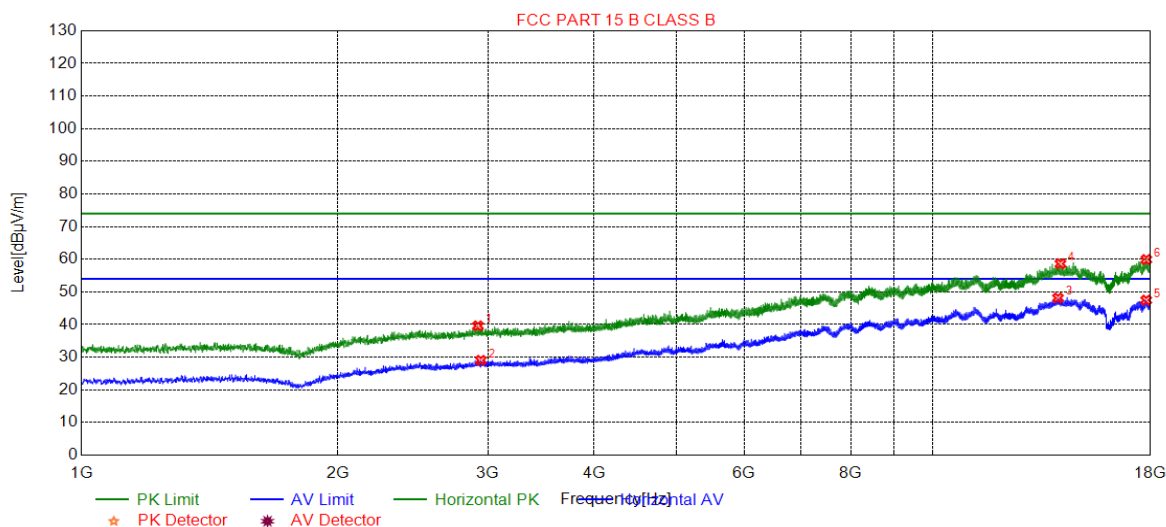
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Mode:g; Polarization:Horizontal



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	100	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	200	40	Horizontal
4	14109.3	58.64	2.33	74.00	15.36	200	268	Horizontal
5	17788.3	47.49	0.73	54.00	6.51	100	53	Horizontal
6	17793.4	59.93	0.71	74.00	14.07	100	129	Horizontal

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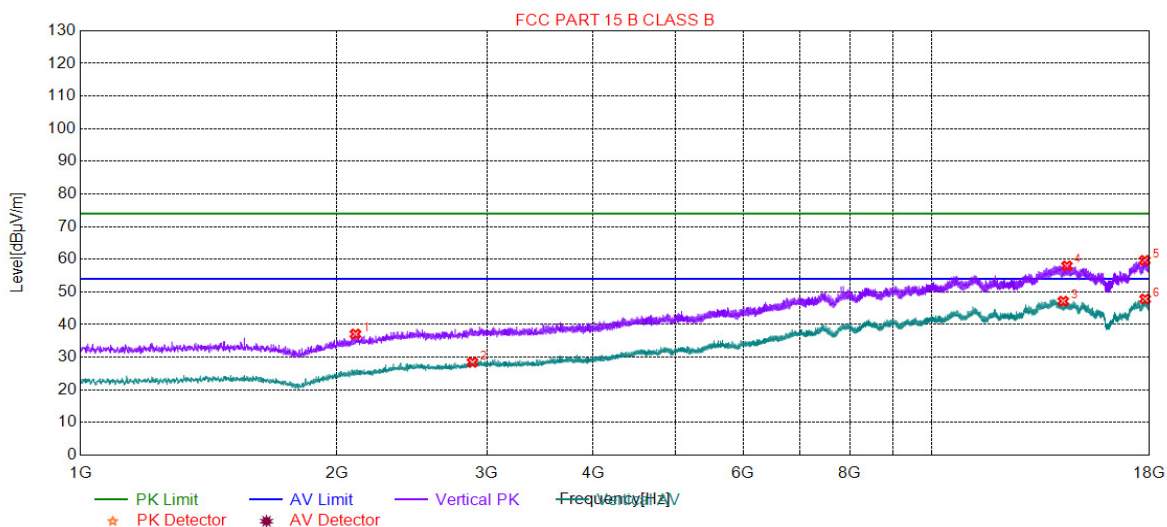
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Mode:g; Polarization:Vertical

**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	100	281	Vertical
2	2886.24	28.47	-24.81	54.00	25.53	100	244	Vertical
3	14253.0	47.16	1.95	54.00	6.84	200	41	Vertical
4	14395.8	57.98	1.96	74.00	16.02	100	281	Vertical
5	17767.0	59.67	0.80	74.00	14.33	100	244	Vertical
6	17785.7	47.83	0.74	54.00	6.17	100	92	Vertical

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3 Equipment List

Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Semi-Anechoic Chamber	Brilliant-emc	966	XAW03-35-01	NCR	NCR
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020/4/2	2021/4/2
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019/9/7	2020/9/6
Receiving antenna	Rosenberger	VULB 9163	XAW01-09-01	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9120D	XAW01-09-02	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	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	2020/11/18
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019/11/18	2020/11/18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019/12/3	2020/12/3
Amplifier	Brilliant-emc	YX28980930	XAW01-41-06	2019/11/18	2020/11/18
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-19-02	2019-09-16	2020/9/15

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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.4\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 5.2\text{dB}$ (1GHz-6GHz)
		$\pm 5.5\text{dB}$ (6GHz-18GHz)
		$\pm 5.02\text{dB}$ (18GHz-40GHz)

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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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