

TEST REPORT

Application No.: ZR/2020/70008
Applicant: OnePlus Technology (shenzhen) Co., Ltd.
Address of Applicant: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China.
Manufacturer: OnePlus Technology (shenzhen) Co., Ltd.
Address of Manufacturer: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China.
EUT Description: Smart Phone
Model No.: BE2011, BE2012, BE2015
Trade Mark: ONEPLUS
FCC ID: 2ABZ2-EF164
Standard(s): 47 CFR Part 15, Subpart B
Date of Receipt: 2020/8/10
Date of Test: 2020/8/10 to 2020/8/31
Date of Issue: 2021/5/27

Test Result:	Pass*
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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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/9/4		Original
02		2021/5/27	Leah Chen	1. Modify data conversion error of antenna height 2. Updated equipment list

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



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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:	Smart Phone		
Model No.(EUT):	BE2011, BE2012, BE2015		
Trade Mark:	ONEPLUS		
Hardware Version:	44		
Software Version:	10.5.5.BE82CB		
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 IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	CDMA BC0	824~849	869~894
	CDMA BC1	1850~1910	1930~1990
	CDMA BC10	817~824	862~869
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
LTE Band 66	1710~1780	2110~2200	
LTE Band 71	663~698	617~652	
Wi-Fi 2.4G	2412~2472	2412~2472	
Bluetooth	2402~2480	2402~2480	
Wi-Fi 5G	5150~5850	5150~5850	



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The mobile phone BE2012 and BE2015 and BE2011 are GSM/CDMA/WCDMA/LTE mobile phone. The differences between BE2012 and BE2015 and BE2011 are showed in the following table. They only have different model name, other parts of the mobile phone are the same, including Chipsets, the appearance, Bluetooth mode, Wifi mode, Adapter, Battery, and so on.

Model name	BE2012	BE2011	BE2015
Type	Object of reference	New model	New model
GSM bands	/	The same	The same
WCDMA bands	/	The same	The same
LTE bands	/	The same	The same
SIM card	/	The same	The same
External camera	/	The same	The same
Internal camera	/	The same	The same
FLASH	/	The same	The same
Mainboard	/	The same	The same
PCB layout	/	The same	The same
Appearance	/	The same	The same
Bluetooth mode	/	The same	The same
WLAN mode	/	The same	The same
BT/ WLAN antenna	/	The same	The same
GSM/ WCDMA /LTE antenna	/	The same	The same
Adapter	/	The same	The same
Battery	/	The same	The same
Chipset	/	The same	The same
Memory	/	The same	The same
RF Parameter	/	The same	The same
Dimension	/	The same	The same

Note:

Model No.: BE2011, BE2012, BE2015.

Only the BE2012 was tested, since they only have different model name, other parts of the mobile phone are the same, including Chipsets, the appearance, Bluetooth mode, Wi-Fi mode, Adapter, Battery, and so on.



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Accessory:

Battery			
Battery	Huizhou Desay Battery Co., Ltd.	BLP813	3.87V; 4890mAh/18.92Wh/1cell
USB Cable			
USB Cable1			1.0m shielded cable without core
USB Cable2			1.0m shielded cable without core
Adapter			
Adapter1 (US)	HUIZHOU GOLDEN LAKE INDUSTRIAL CO.,LTD.	WC018A51JH	I/P:100-240VAC 50/60Hz 0.5A O/P:5VDC 2.0A or 9.0VDC,2.0A
Adapter2 (US)	SHENZHEN KUNXING TECHNOLOGY CO.,LTD.	WC018A51KX	I/P:100-240VAC 50/60Hz 0.5A O/P:5VDC 2.0A or 9.0VDC,2.0A



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1.1 Description of Support Units

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

1.2 Test Location

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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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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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

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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

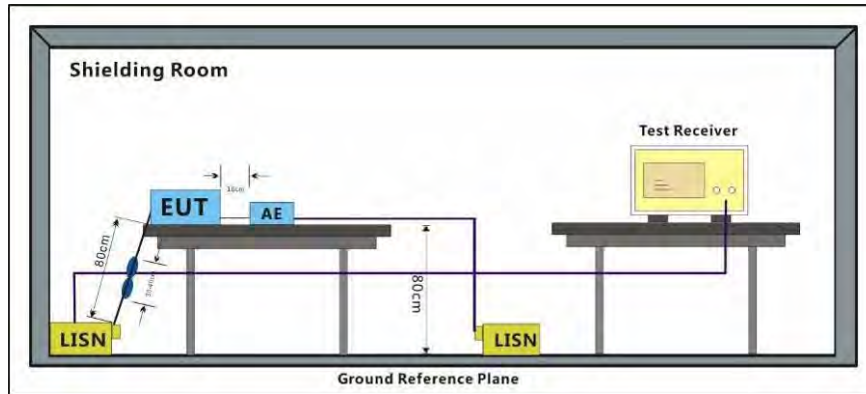
- Pretest these modes to find the worst case:
- a: Transfer data between the EUT and the PC + USB cable + Earphone
 - b: GSM 850 Idle + BT+ WLAN + GPS Rx + playing MP4 (SD card) + battery + Cable + adapter + battery + Earphone
 - c: WCDMA Band V Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + Cable + adapter2 + battery + Earphone
 - d: LTE Band 5 Idle+BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
 - e: LTE Band 12 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
 - f: LTE Band 13 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
 - g: LTE Band 17 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
 - h: LTE Band 26 Idle + BT + WLAN + GPS Rx + camera (Back) + battery + Cable + Earphone

The worst case for final test: d: LTE Band 5 Idle + BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone



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2.1.2 Test Setup Diagram



2.1.3 Measurement Data

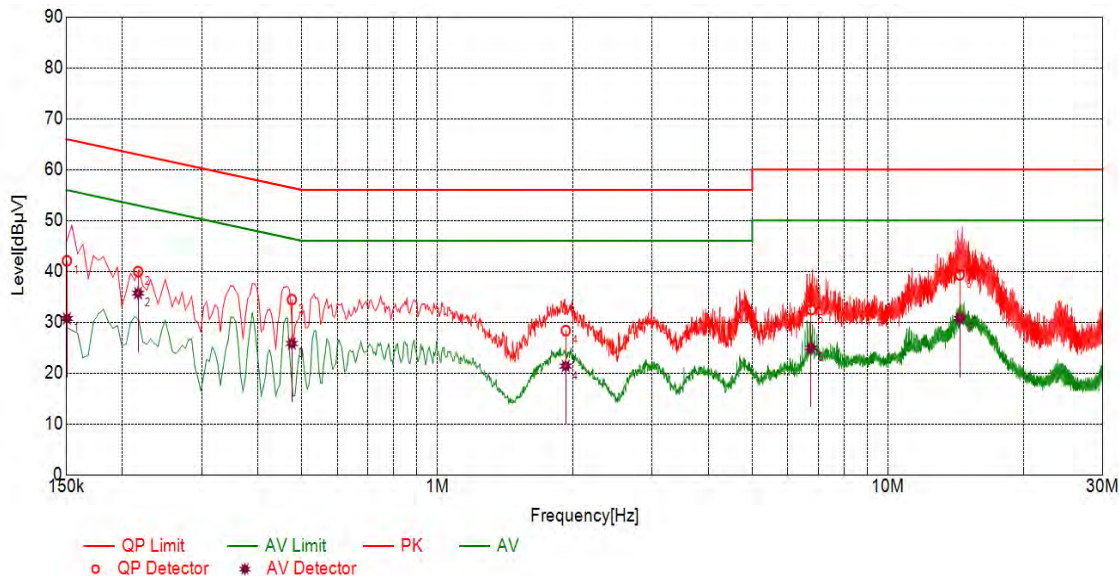
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:; Line:Live Line

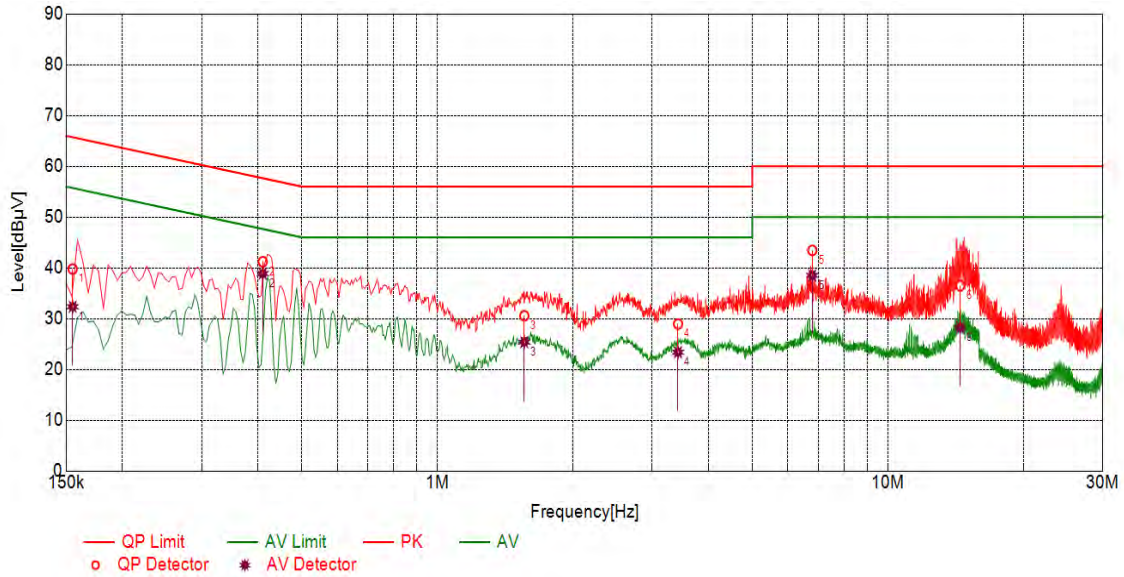


Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dB-μV]	QP Limit [dB-μV]	QP Margin [dB]	AV Value [dB-μV]	AV Limit [dB-μV]	AV Margin [dB]	Type
1	0.1506	10.10	42.07	65.96	23.89	30.73	55.96	25.23	L
2	0.2167	10.10	39.94	62.95	23.01	35.72	52.95	17.23	L
3	0.4755	10.10	34.44	56.42	21.98	25.82	46.42	20.60	L
4	1.9279	10.10	28.36	56.00	27.64	21.38	46.00	24.62	L
5	6.7583	10.10	32.48	60.00	27.52	24.94	50.00	25.06	L
6	14.4419	10.11	39.31	60.00	20.69	30.73	50.00	19.27	L



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Mode:; Line:Neutral Line



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	0.1551	10.10	39.77	65.72	25.95	32.35	55.72	23.37	N
2	0.4098	10.10	41.21	57.65	16.44	38.87	47.65	8.78	N
3	1.5599	10.10	30.57	56.00	25.43	25.38	46.00	20.62	N
4	3.4223	10.10	28.94	56.00	27.06	23.39	46.00	22.61	N
5	6.7967	10.10	43.46	60.00	16.54	38.52	50.00	11.48	N
6	14.4678	10.11	36.49	60.00	23.51	28.30	50.00	21.70	N



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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

2.2 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

2.1.4 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 cable + Earphone
- b: GSM 850 Idle + BT+ WLAN + GPS Rx + playing MP4 (SD card) + battery + Cable + adapter + battery + Earphone
- c: WCDMA Band V Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + Cable + adapter2 + battery + Earphone
- d: LTE Band 5 Idle+BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- e: LTE Band 12 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- f: LTE Band 13 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- g: LTE Band 17 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- h: LTE Band 26 Idle + BT + WLAN + GPS Rx + camera (Back) + battery + Cable + Earphone

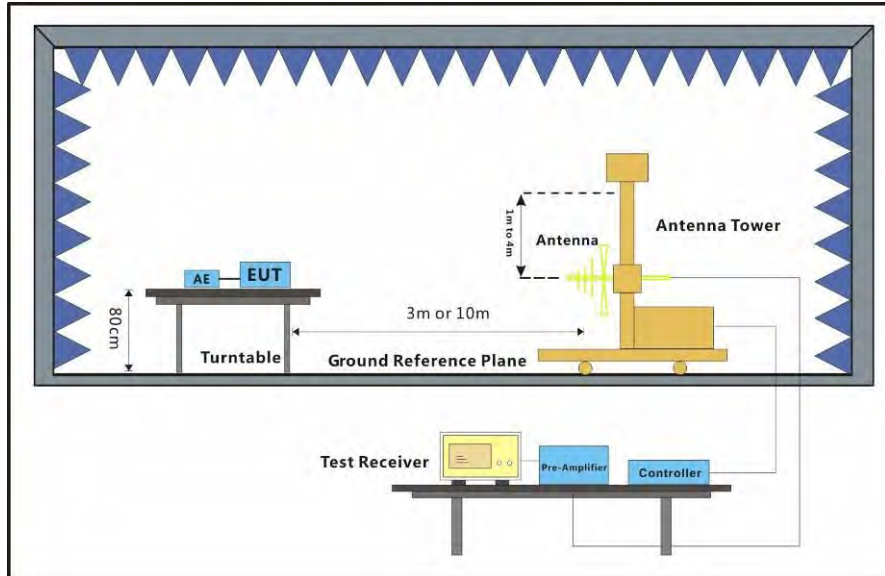
The worst case for final test:

- d: LTE Band 5 Idle + BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone



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2.1.5 Test Setup Diagram



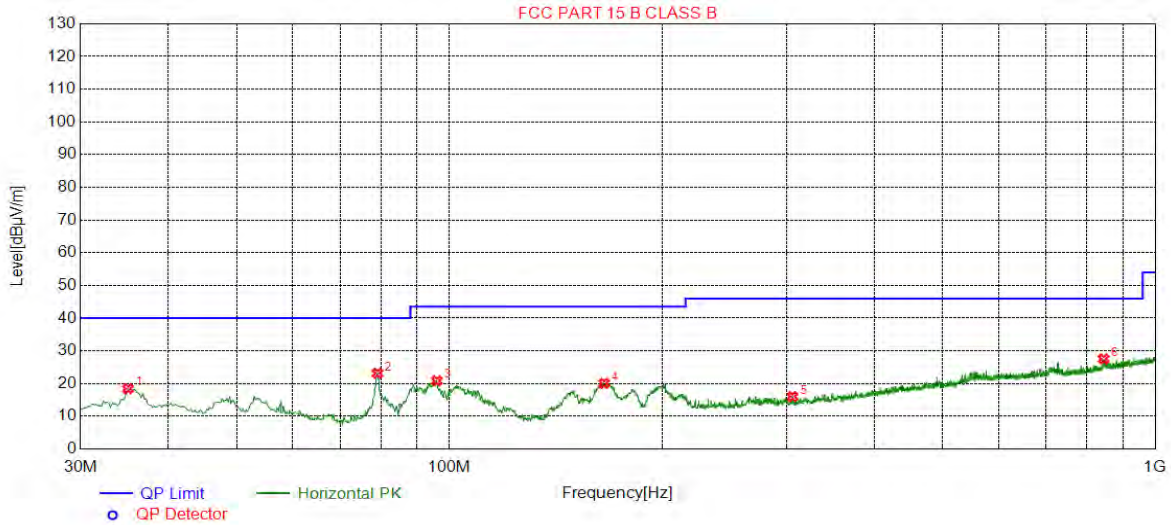
2.1.6 Measurement Data

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: Polarization:Horizontal



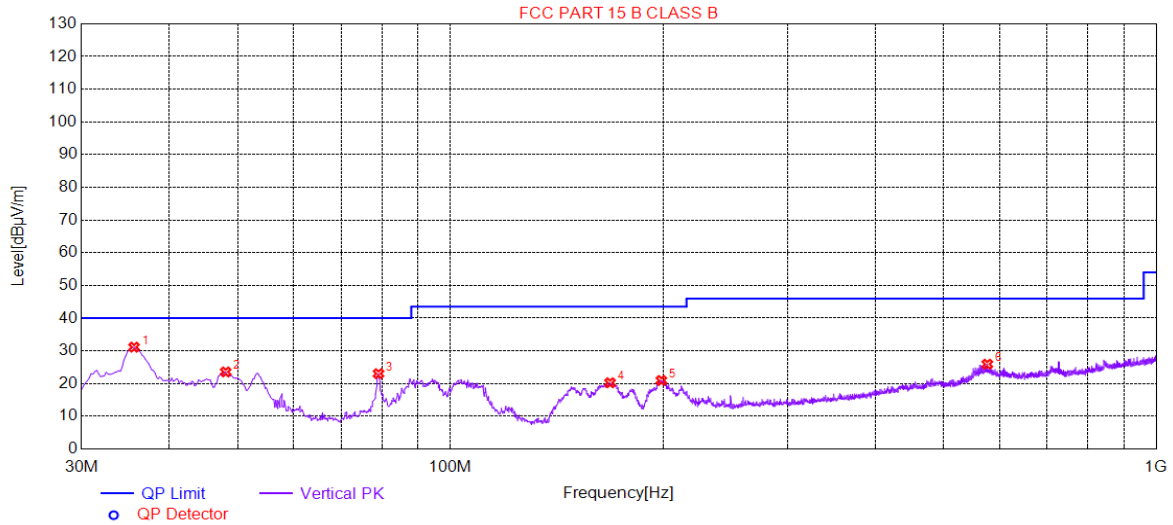
Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.0450	18.45	-29.95	40.00	21.55	230	246	Horizontal
2	79.0918	23.17	-35.99	40.00	16.83	160	159	Horizontal
3	95.9732	20.85	-32.72	43.50	22.65	121	255	Horizontal
4	165.633	20.07	-34.30	43.50	23.43	127	212	Horizontal
5	306.311	16.02	-28.08	46.00	29.98	187	215	Horizontal
6	845.157	27.54	-16.97	46.00	18.46	100	285	Horizontal



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Mode:; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.6271	31.15	-29.76	40.00	8.85	162	335	Vertical
2	48.0456	23.57	-30.39	40.00	16.43	157	4	Vertical
3	79.0918	23.04	-35.99	40.00	16.96	289	94	Vertical
4	168.349	20.26	-34.14	43.50	23.24	271	335	Vertical
5	199.007	20.96	-31.29	43.50	22.54	182	33	Vertical
6	576.413	25.95	-21.30	46.00	20.05	153	27	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) 100M to18000MHz

2.1.7 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:

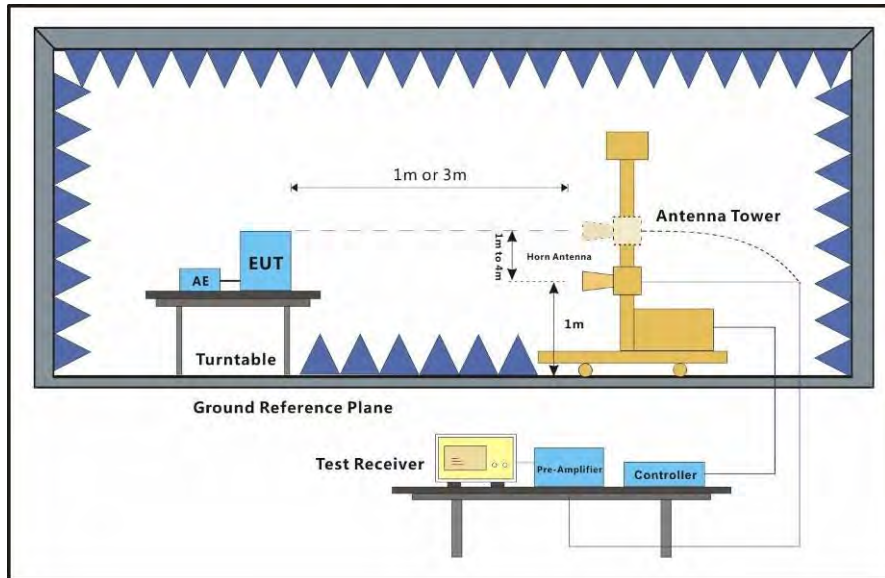
- a: Transfer data between the EUT and the PC + USB cable + Earphone
- b: GSM 850 Idle + BT+ WLAN + GPS Rx + playing MP4 (SD card) + battery + Cable + adapter + battery + Earphone
- c: WCDMA Band V Idle + BT + WLAN + GPS Rx + playing MP4 (SD card) + Cable + adapter2 + battery + Earphone
- d: LTE Band 5 Idle+BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- e: LTE Band 12 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- f: LTE Band 13 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- g: LTE Band 17 Idle + BT + WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone
- h: LTE Band 26 Idle + BT + WLAN + GPS Rx + camera (Back) + battery + Cable + Earphone

The worst case for final test: d: LTE Band 5 Idle + BT+ WLAN + GPS Rx + camera (Front) + battery + Cable + Earphone



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2.1.8 Test Setup Diagram



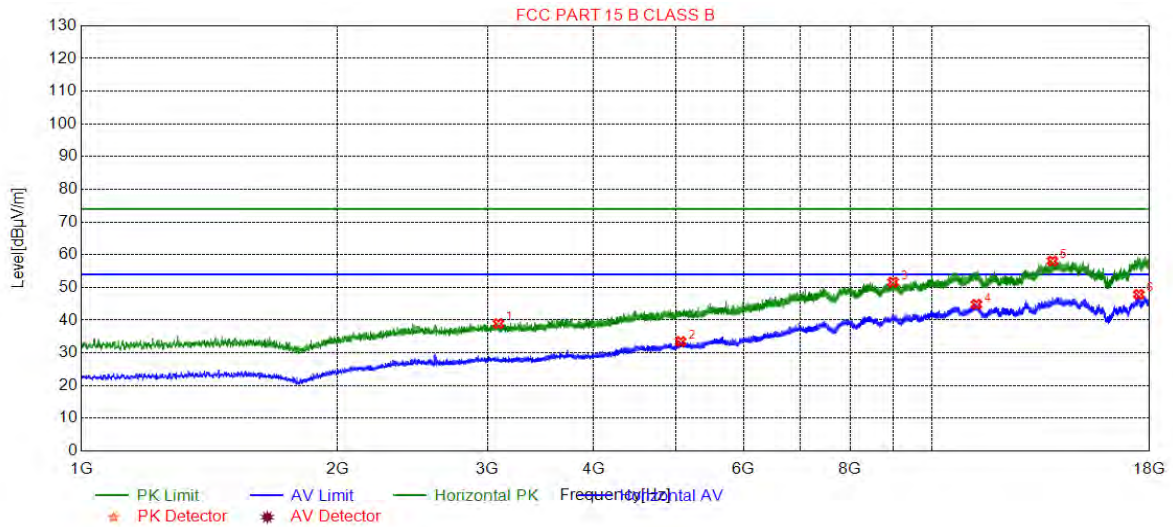
2.1.9 Measurement Data

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: Polarization:Horizontal

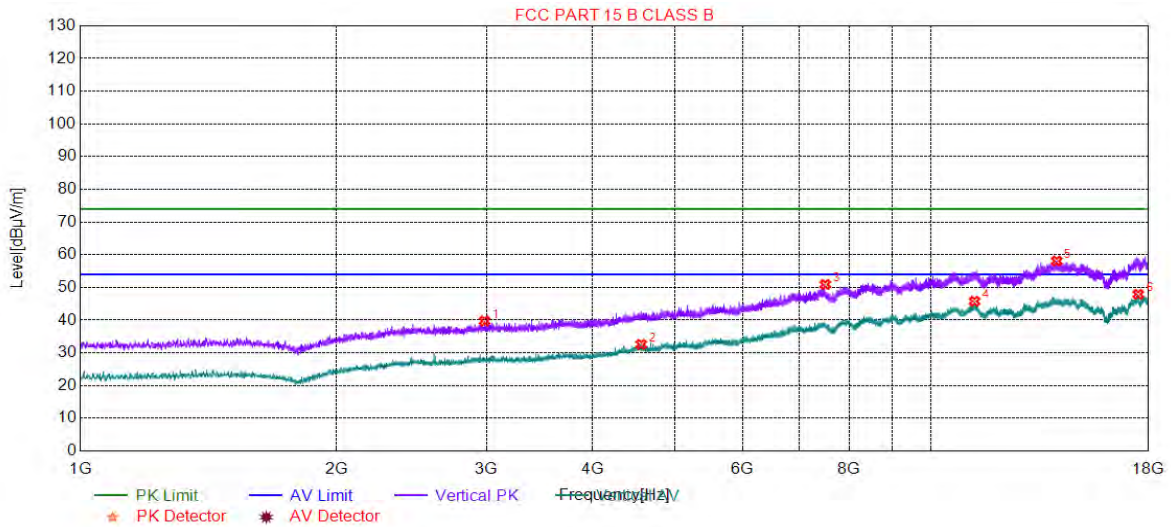


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3091.10	38.95	-24.37	74.00	35.05	177	207	Horizontal
2	5060.65	33.47	-17.35	54.00	20.53	136	306	Horizontal
3	8989.54	51.64	-6.78	74.00	22.36	163	283	Horizontal
4	11265.9	44.85	-2.76	54.00	9.15	175	344	Horizontal
5	13838.1	58.11	1.92	74.00	15.89	185	54	Horizontal
6	17484.0	47.89	1.44	54.00	6.11	248	306	Horizontal



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Mode: Polarization: Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2985.69	39.78	-24.55	74.00	34.22	237	357	Vertical
2	4560.82	32.61	-19.12	54.00	21.39	244	16	Vertical
3	7505.37	50.92	-9.72	74.00	23.08	261	54	Vertical
4	11237.9	45.79	-2.80	54.00	8.21	262	192	Vertical
5	14038.8	58.11	2.29	74.00	15.89	282	116	Vertical
6	17503.5	47.92	1.62	54.00	6.08	172	154	Vertical



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3 Equipment List

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
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
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



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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
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	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
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



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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)

5 Photographs

5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR/2020/70008

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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