



TEST REPORT

Application No.: ZR/2020/70006
Applicant: LG Electronics USA, Inc
Address of Applicant: 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer: Huaqin Telecom Technology Co.,Ltd.
Address of Manufacturer: No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China
EUT Description: Mobile handset
Model No.: LM-K520HMMW, LM-K520HM, LM-K525HMMW, LM-K525HM
Trade Mark: LG
FCC ID: ZNFK520HMMW
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/7/10
Date of Test: 2020/7/10 to 2020/8/13
Date of Issue: 2021/8/15

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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Wireless Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/8/13		Original
02		2021/5/26	Leah Chen	1. Modify data conversion error of antenna height 2. Updated equipment list
03		2021/8/15	Leah Chen	1. Updated Support Units, Test facility and Test Location

*This report supersedes our previous report ZR/2020/7000606, issued on 2020-08-13, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		 (Leah Chen) / Engineer
Checked By		 (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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Contents

1	GENERAL INFORMATION	5
1.1	DESCRIPTION OF SUPPORT UNITS	7
1.2	TEST LOCATION	7
1.3	TEST FACILITY	7
1.4	DEVIATION FROM STANDARDS	7
1.5	ABNORMALITIES FROM STANDARD CONDITIONS	7
2	EMISSION TEST RESULTS.....	8
2.1	CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz).....	8
2.1.1	E.U.T. Operation	8
2.1.2	Test Setup Diagram	9
2.1.3	Measurement Data.....	9
2.2	RADIATED EMISSIONS (30MHz-1GHz)	12
2.2.1	E.U.T. Operation	12
2.2.2	Test Setup Diagram	13
2.2.3	Measurement Data.....	13
2.3	RADIATED EMISSIONS (ABOVE 1GHz).....	16
2.3.1	E.U.T. Operation	16
2.3.2	Test Setup Diagram	17
2.3.3	Measurement Data.....	17
3	EQUIPMENT LIST	20
4	MEASUREMENT UNCERTAINTY.....	21
5	PHOTOGRAPHS	22
5.1	TEST SETUP PHOTOS	22
5.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	22



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1 General Information

EUT Description:	Mobile handset
Model No.(EUT):	LM-K520HMMW, LM-K520HM, LM-K525HMMW, LM-K525HM
Trade Mark:	LG
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated

Battery			
Battery	ATL	BL-T51	3.87V; 3900mAh
Earphone			
Earphone	Cresyn	EAB64468444	
USB Cable			
USB Cable1	Ningbo Broad	DC15WB-G	1.0m shielded cable without core
USB Cable2	Luxshare	DC15WX-G	1.0m shielded cable without core
Adapter			
Adapter1 (US)	Phihong	MCS-V02WH	I/P: 100-240 Vac, 0.4A ,50/60HZ O/P: 5Vdc 2A
Adapter2 (US)	Aohai	MCS-V02WA2	I/P: 100-240 Vac, 0.4A ,50/60HZ O/P: 5Vdc 2A
Adapter3 (US)	Sunlin	MCS-V02WR	I/P: 100-240 Vac, 0.4A ,50/60HZ O/P: 5Vdc 2A



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Difference description:

The differences between LM-K520HMW and other models are shown in the below table:

Model		LM-K520HMW	LM-K520HM	LM-K525HMW	LM-K525HM
		(Full approval)	(Update approval)	(Updated approval)	(Update approval)
Software version		different	different	different	different
Licensed Frequency	LTE	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/ B17/B28/ B38/B66	B1/B2/B3/B4/ B5/B7/B8/B12/B13/B17/B28/ B38/B66
	UMTS	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8	B1/B2/B4/B5/ B8
	GSM	the same	the same	the same	the same
	IC	the same	the same	the same	the same
	Antenna	the same	the same	the same	the same
Unlicensed Frequency	Bluetooth	the same	the same	the same	the same
	2.4G Wi-Fi	the same	the same	the same	the same
	IC	the same	the same	the same	the same
	Antenna	the same	the same	the same	the same
Hardware	Ram / Rom	4G/64G	4G/64G	4G/128G	4G/128G
	Camera	the same	the same	the same	the same
	PCB	the same	the same	the same	the same
	USB Port	the same	the same	the same	the same
	RJ11 Port	the same	the same	the same	the same
	RJ45 Port	the same	the same	the same	the same
	NFC	Not support	Not support	Not support	Not support
	FM	Support	Support	Support	Support
Appearance	Dimension	the same	the same	the same	the same
	Color	the same	the same	the same	the same
Accessory	Battery	the same	the same	the same	the same
	External Charger	the same	the same	the same	the same
	USB label	the same	the same	the same	the same
other	SIM card	Double SIM	Single SIM	Double SIM	Single SIM

Remark:



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According to the difference description above, only the model LM-K520HMM was fully tested, for other models were performed the Radiated Emission test for discrepancy, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. With difference being on mode, appearance and color.

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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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: GSM 850 Idle+BT+WLAN+USB cable(worst)+GPS RX+playing MP4+earphone+Adaptor1
- d: WCDMA Band II Idle+BT+WLAN+USB cable(worst)+GPS RX+camera(rear)+earphone+Adaptor3
- e: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- f: LTE Band 5 Idle+BT+WLAN +USB cable(worst)+GPS RX++camera(rear)+earphone+Adaptor(worst)
- g: LTE Band 12 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- i: LTE Band 13 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- j: LTE Band 17 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)

The worst case for final test: j: LTE Band 17 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)



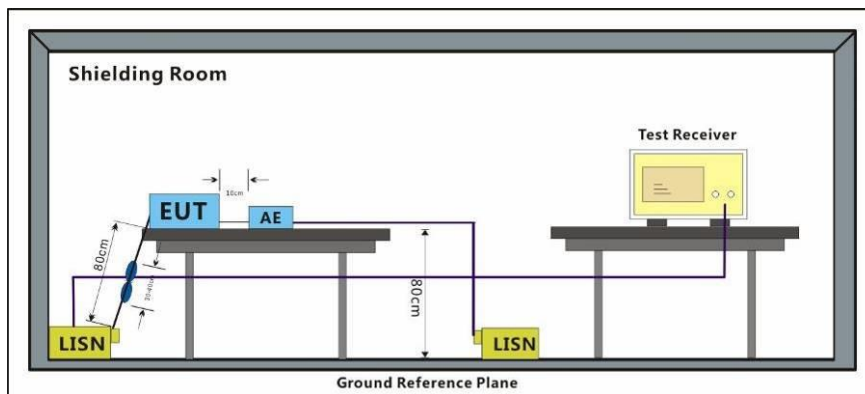
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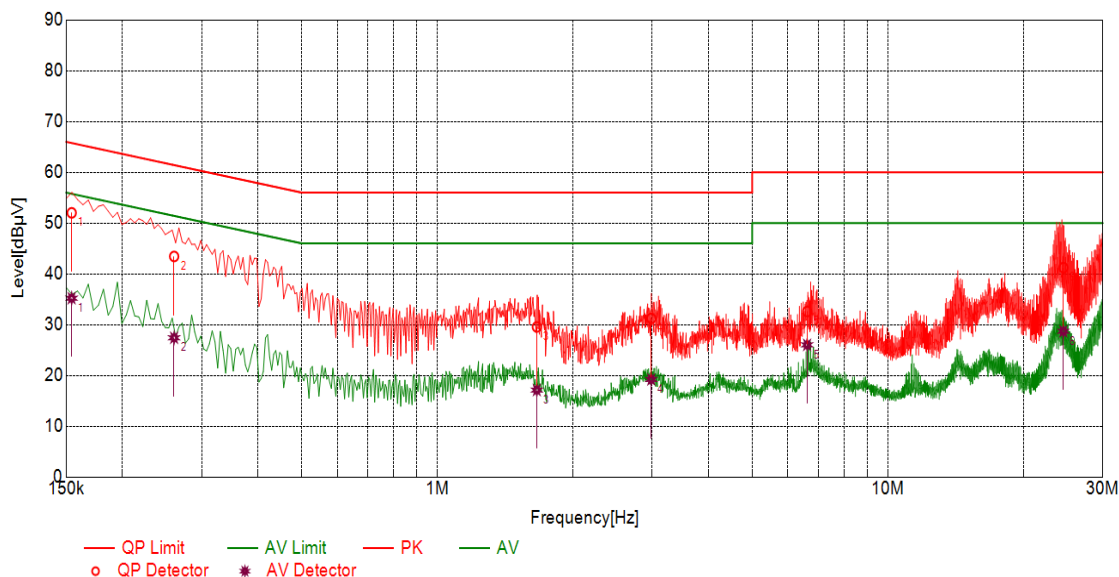
2.1.2 Test Setup Diagram



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.

Mode:j; 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	0.1543	10.10	52.02	65.76	13.74	35.20	55.76	20.56	L
2	0.2605	10.10	43.44	61.41	17.97	27.41	51.41	24.00	L
3	1.6630	10.10	29.55	56.00	26.45	17.12	46.00	28.88	L
4	2.9843	10.10	31.24	56.00	24.76	19.21	46.00	26.79	L
5	6.6191	10.10	32.60	60.00	27.40	26.02	50.00	23.98	L
6	24.5207	10.11	41.23	60.00	18.77	28.70	50.00	21.30	L

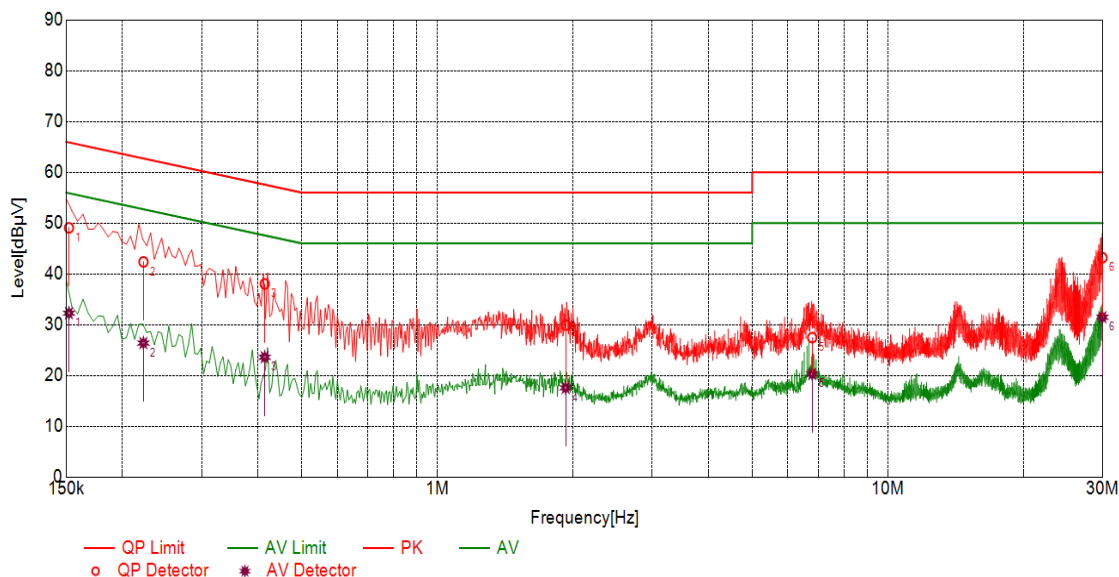


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Mode:j; Line:Neutral Line



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	0.1522	10.10	49.06	65.88	16.82	32.26	55.88	23.62	N
2	0.2227	10.10	42.36	62.72	20.36	26.38	52.72	26.34	N
3	0.4139	10.10	38.03	57.57	19.54	23.59	47.57	23.98	N
4	1.9268	10.10	29.93	56.00	26.07	17.56	46.00	28.44	N
5	6.7929	10.10	27.45	60.00	32.55	20.28	50.00	29.72	N
6	29.9513	10.11	43.18	60.00	16.82	31.46	50.00	18.54	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: GSM 850 Idle+BT+WLAN+USB cable(worst)+GPS RX+playing MP4+earphone+Adaptor1
- d: WCDMA Band II Idle+BT+WLAN+USB cable(worst)+GPS RX+camera(rear)+earphone+Adaptor3
- e: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- f: LTE Band 5 Idle+BT+WLAN +USB cable(worst)+GPS RX++camera(rear)+earphone+Adaptor(worst)
- g: LTE Band 12 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- i: LTE Band 13 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- j: LTE Band 17 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable1

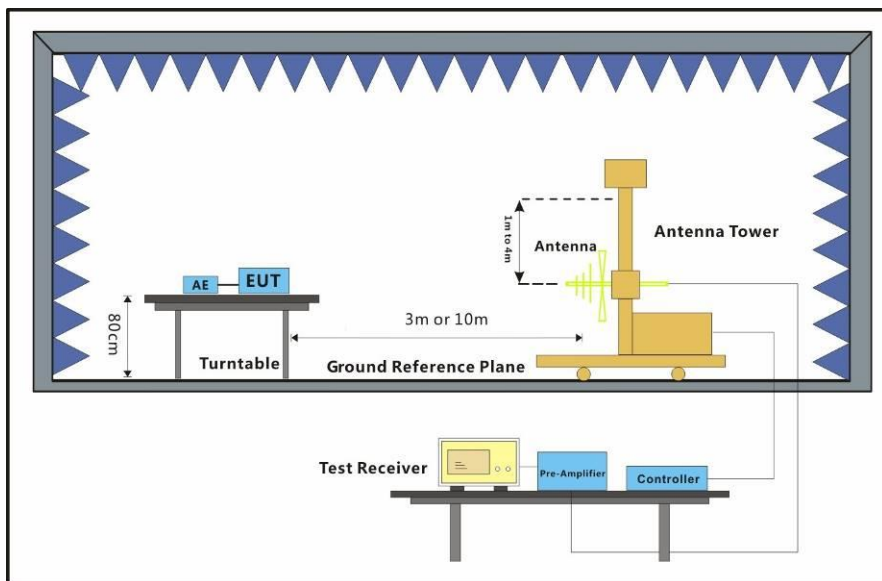


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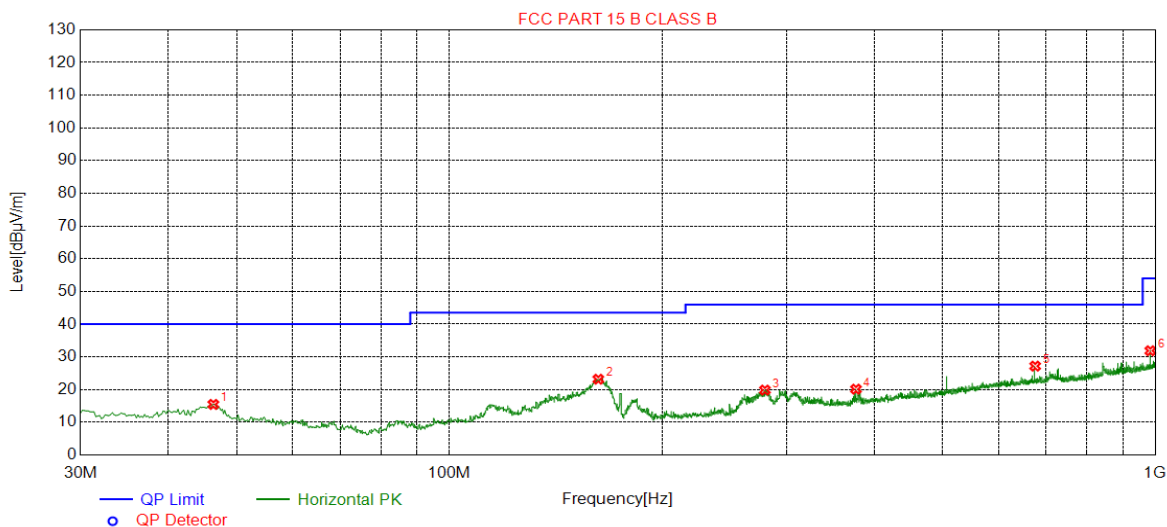
2.2.2 Test Setup Diagram



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.

Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.2993	15.48	-30.41	40.00	24.52	104	84	Horizontal
2	162.528	23.18	-34.48	43.50	20.32	124	224	Horizontal
3	279.922	19.86	-28.99	46.00	26.14	179	224	Horizontal
4	376.747	20.14	-26.16	46.00	25.86	185	88	Horizontal
5	675.955	27.19	-19.76	46.00	18.81	141	238	Horizontal
6	984.088	31.88	-15.01	54.00	22.12	211	14	Horizontal



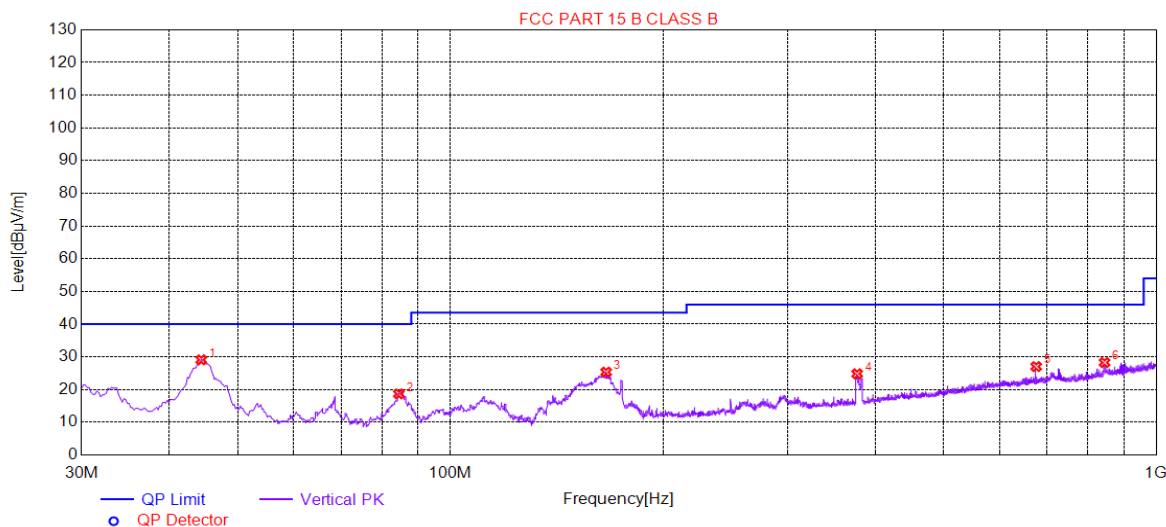
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Mode:a; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.3589	29.11	-30.16	40.00	10.89	268	291	Vertical
2	84.5249	18.69	-35.05	40.00	21.31	262	165	Vertical
3	166.215	25.36	-34.26	43.50	18.14	232	335	Vertical
4	376.941	24.85	-26.15	46.00	21.15	238	341	Vertical
5	675.955	27.04	-19.76	46.00	18.96	158	148	Vertical
6	844.963	28.28	-16.97	46.00	17.72	264	22	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: GSM 850 Idle+BT+WLAN+USB cable(worst)+GPS RX+playing MP4+earphone+Adaptor1
- d: WCDMA Band II Idle+BT+WLAN+USB cable(worst)+GPS RX+camera(rear)+earphone+Adaptor3
- e: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- f: LTE Band 5 Idle+BT+WLAN +USB cable(worst)+GPS RX++camera(rear)+earphone+Adaptor(worst)
- g: LTE Band 12 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- i: LTE Band 13 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)
- j: LTE Band 17 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)

The worst case for final test: j: LTE Band 17 Idle+BT+WLAN +USB cable(worst)+GPS RX+earphone+Adaptor(worst)



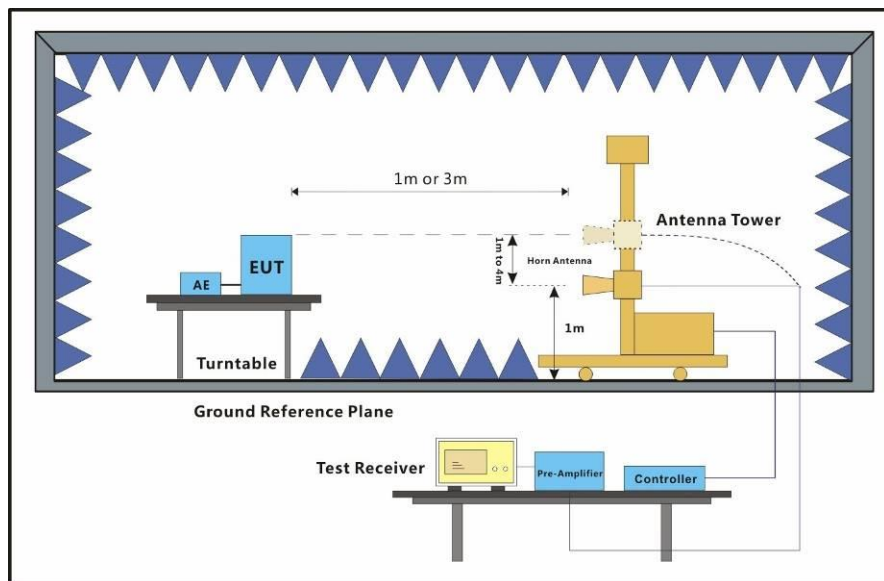
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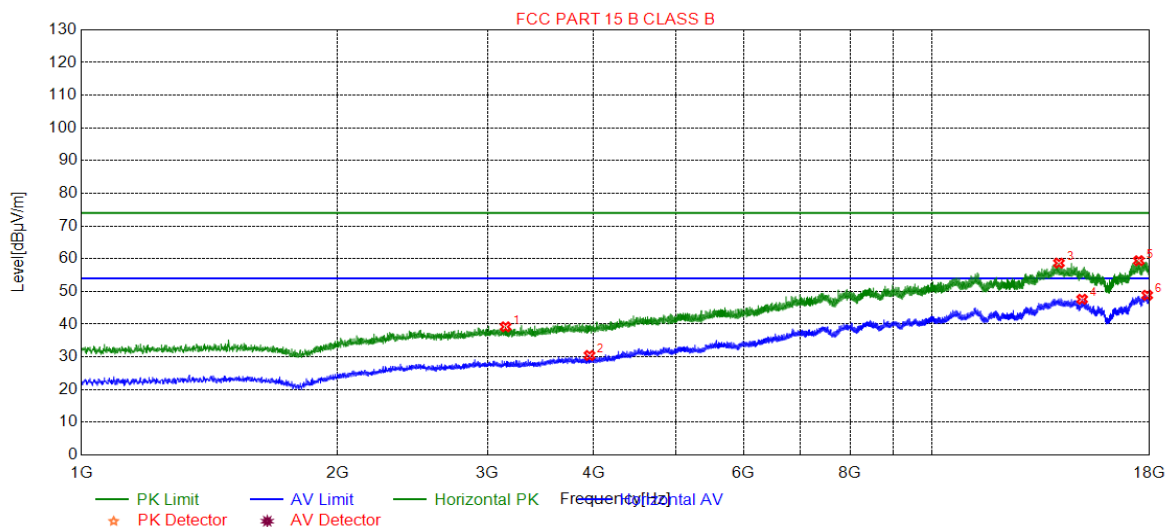
2.3.2 Test Setup Diagram



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.

Mode:j; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3151.45	39.19	-24.22	74.00	34.81	239	5	Horizontal
2	3954.74	30.43	-21.90	54.00	23.57	105	307	Horizontal
3	14083.8	58.68	2.34	74.00	15.32	229	53	Horizontal
4	14994.2	47.63	1.79	54.00	6.37	180	344	Horizontal
5	17480.6	59.41	1.39	74.00	14.59	147	269	Horizontal
6	17881.8	48.86	0.22	54.00	5.14	224	232	Horizontal



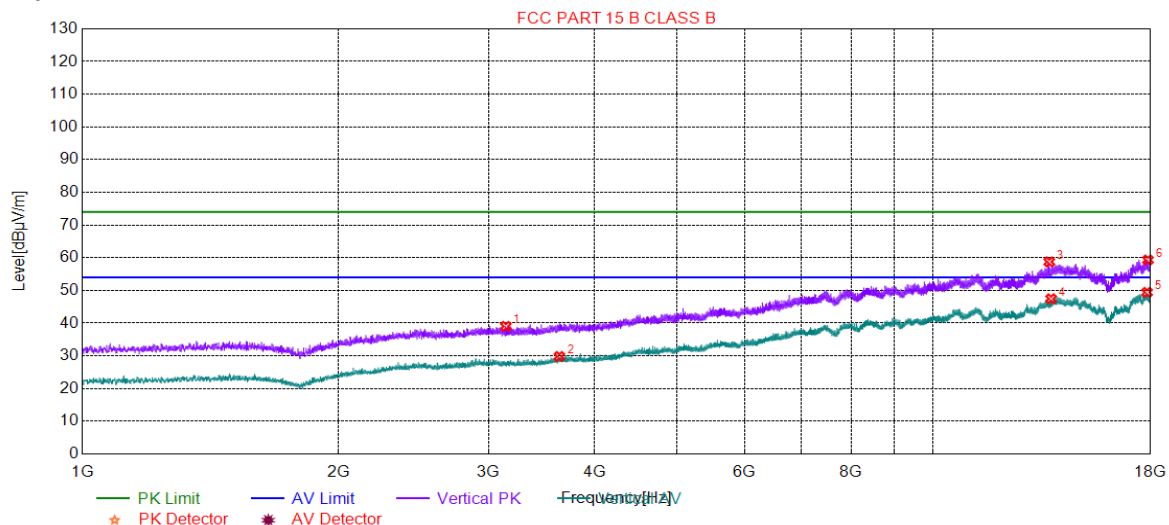
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Mode:j; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3144.65	39.04	-24.23	74.00	34.96	158	344	Vertical
2	3635.13	29.83	-22.66	54.00	24.17	219	205	Vertical
3	13681.7	58.76	1.52	74.00	15.24	156	15	Vertical
4	13749.7	47.47	1.68	54.00	6.53	205	280	Vertical
5	17826.5	49.43	0.54	54.00	4.57	294	269	Vertical
6	17870.7	59.34	0.29	74.00	14.66	244	53	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	XAW01-04-03	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

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+ RE V3.0.0.2	XAW02-05-01	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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5 Photographs

5.1 Test Setup Photos

Refer to Photographs of Appendix A - Photographs of Set-Up for ZR/2020/70006

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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