

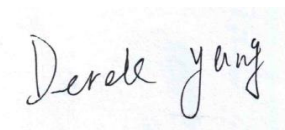
TEST REPORT

Application No.: ZR/2020/20029
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: M2002J9G
Trade Mark: MI
FCC ID: 2AFZZJ9G
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020-03-15
Date of Test: 2020-03-15 to 2020-04-15
Date of Issue: 2020-04-15

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



<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2020-04-15		Original

Authorized for issue by:				
		<i>Louis He</i> (Louis He) /Project Engineer		
		<i>David Chen</i> (David Chen) /Reviewer		

2 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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4 General Information

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	M2002J9G		
Trade Mark:	MI		
Product Phase:	production unit		
FCC ID:	2AFZZJ9G		
Hardware Version:	P2.1		
Software Version:	MIUI 11		
Antenna Type:	Integrated		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM(HSPA+); LTE: QPSK,16QAM WIFI: DSSS, OFDM BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	14	HSUPA UE Category	8
DC-HSDPA UE Category:	24		
Power Class	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band II/IV/V)		
	3, tested with power control Max Power(LTE Band 2/4/5/7/13/17/66)		
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
	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 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5825	5150~5825
	BT	2402~2480	2402~2480
	FM	87.5~108	
GNSS(GPS/BDS/GLONASS/Galileo)	1559~1610		
Adaptor Information 1#:	Model:	MDY-11-EQ	
	Brand Name:	MI	
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A	
	Manufacturer:	Xiaomi (BYD)	
Adaptor Information 2#:	Model:	MDY-11-EQ	
	Brand Name:	MI	
	SEC:	I/P: 100 - 240 Vac, 0.6 A,	

		O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
	Manufacturer:	Xiaomi (Chenyang)
Battery Information 1#:	Model:	BM4R
	Brand Name:	MI
	Normal Voltage:	3.87V
	Rated capacity:	4060mAh
	Manufacturer:	Ningde Amperex Technology Limited
USB cable Information1#:	Model:	L73312
	Brand Name:	MI
	Manufacturer:	LUXSHARE
USB cable Information2#:	Model:	B73312
	Brand Name:	MI
	Manufacturer:	Broad

Note: There are 3 types of EUT sample, differences between them is Memory, EUT 1(8+256GB); EUT 2(6+128GB); EUT 3(6+64GB). Except listings above, the others are all the same .

4.1 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

4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.4dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz-1GHz)
		± 5.2dB (1GHz-6GHz)
		± 5.5dB (6GHz-18GHz)
		± 5.02dB (18GHz-40GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%



4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Xi'an Branch

Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, shanxi China. 518057.

Tel: +86 (0) 29 6282 7885 Fax: +86 (0) 29 6282 7885

No tests were sub-contracted.

4.4 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

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

5 Equipment List

Radiated Emissions (30MHz~ 40GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
966 Test chamber	Brilliant-emc	NA	XAW040101	2019/6/11	2022/6/9
BiConiLog Antenna (30MHz-3GHz)	rosenberge	VULB 9163	XAW010901	2018/8/8	2021/8/7
Horn Antenna (800MHz-18GHz)	rosenberger	BBHA 9120D	XAW010902	2018/7/18	2021/7/17
Horn Antenna (18-40GHz)	rosenberge	BBHA 9170	XAW010903	2018/8/1	2021/7/31
Amplifier(9kHz-3GHz)	Tonscend	TAP00903040	XAW030601	2019/11/18	2020/11/18
Amplifier(100MHz-18GHz)	Tonscend	TAP01018048	XAW030602	2019/11/18	2020/11/18
Amplifier(18-40GHz)	Tonscend	TAP18040048	XAW030603	2019/11/18	2020/11/18
Radio Communication Analyzers	Anritsu	Mt8820c	XAW020223	2019/6/27	2020/6/26
Test receiver	Rohde & Schwarz	ESR	XAW010801	2019/9/7	2020/9/6
MXA signal analyzer	Rohde & Schwarz	FSV	XAW040103	2020/4/2	2021/4/3
Measurement Software	Tonscend	TS+	N/A	N/A	N/A
Filter bank	Tonscend	JS0806-F	N/A	N/A	N/A
Filter bank	Tonscend	JS0806s	N/A	N/A	N/A
Artificial network	Rohde & Schwarz	ENV216	N/A	2019/7/16	2020/7/16

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shield Room	Brilliant-emc	NA	XAW08043	NA	NA
Test receiver	Rohde & Schwarz	ESR	XAW010801	9/7/2019	9/6/2020
Artificial network	Rohde & Schwarz	ENV216	XAW010401	7/16/2019	7/15/2020
Artificial network	Rohde & Schwarz	ENV216	XAW013001	7/16/2019	7/15/2020
Cabel	SGS	NA	NA	NA	NA

6 Emission Test Results

6.1 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

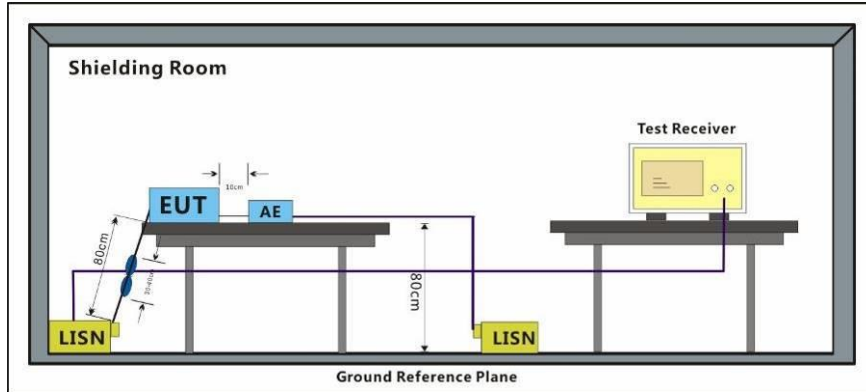
6.1.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:	a: GSM850 Link+BT+WLAN2.4G+GPS Rx+playing MP4 (SD card)+earphone+EUT1+USB cable1+adapter1
	b: GSM1900 Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
	c: WCDMA II Link +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1
	d: WCDMA VI Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
	e: LTE band 2 Link +BT+ WLAN5G+GPS Rx +earphone+EUT1+USB cable1+adapter1
	f: LTE band 4 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
	g: LTE band 5 Idle +BT+FM+WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
	h: LTE band 7 Idle +BT+FM+WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
	i: LTE band 38 Link +BT+FM +WLAN5G+GPS Rx +earphone+EUT1+USB cable1+adapter1
	j: LTE band 41 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
	k: Transfer data between the EUT1 and the PC+USB cable 1
	l: Transfer data between the EUT1 and the PC+USB cable 2
	m: WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable2+adapter2
	n: WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT2+USB cable2+adapter2
p: WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT3+USB cable2+adapter2	
The worst case for final test:	m: WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable2+adapter2

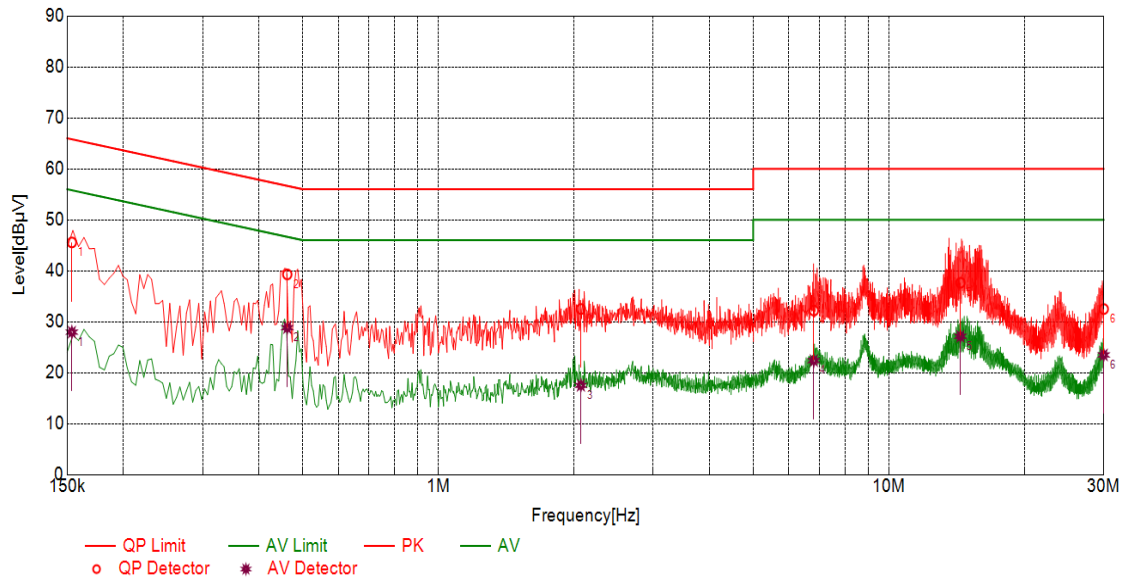
6.1.2 Test Setup Diagram



6.1.3 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.

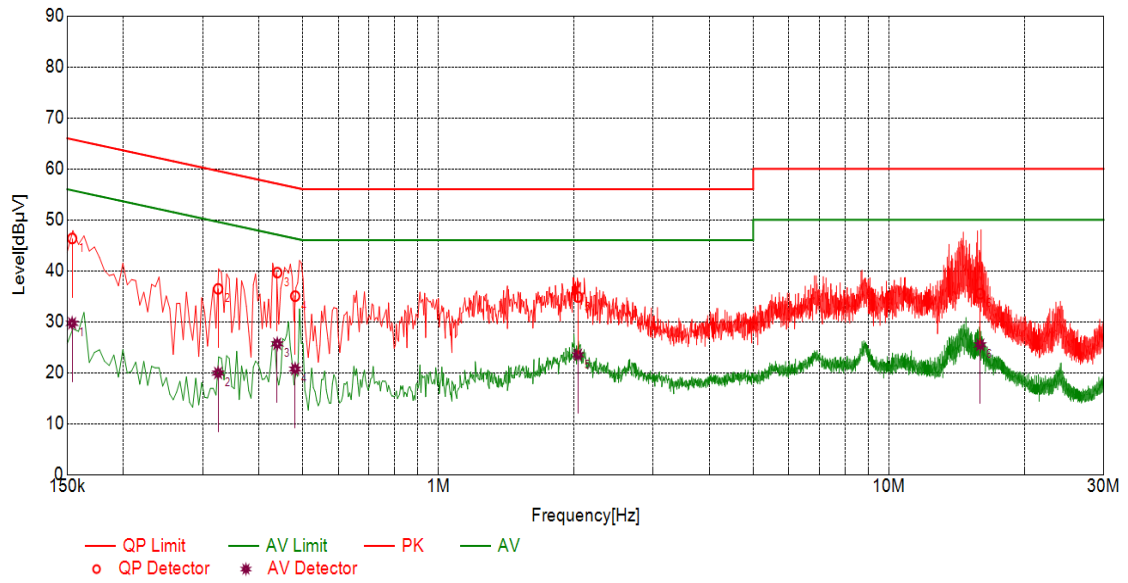
Mode:m; Line:Live Line



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	0.1537	10.10	45.56	65.80	20.24	27.95	55.80	27.85	L
2	0.4621	10.10	39.29	56.65	17.36	28.83	46.65	17.82	L
3	2.0725	10.10	32.51	56.00	23.49	17.51	46.00	28.49	L
4	6.8159	10.10	32.20	60.00	27.80	22.38	50.00	27.62	L
5	14.4163	10.11	37.65	60.00	22.35	27.14	50.00	22.86	L
6	29.9925	10.11	32.50	60.00	27.50	23.49	50.00	26.51	L

Mode:m; 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	0.1539	10.10	46.34	65.79	19.45	29.69	55.79	26.10	N
2	0.3246	10.10	36.45	59.59	23.14	19.94	49.59	29.65	N
3	0.4391	10.10	39.64	57.08	17.44	25.67	47.08	21.41	N
4	0.4811	10.10	35.03	56.32	21.29	20.72	46.32	25.60	N
5	2.0423	10.10	34.85	56.00	21.15	23.51	46.00	22.49	N
6	15.9576	10.11	35.51	60.00	24.49	25.47	50.00	24.53	N

6.2 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

6.2.1 E.U.T. Operation

Operating Environment:

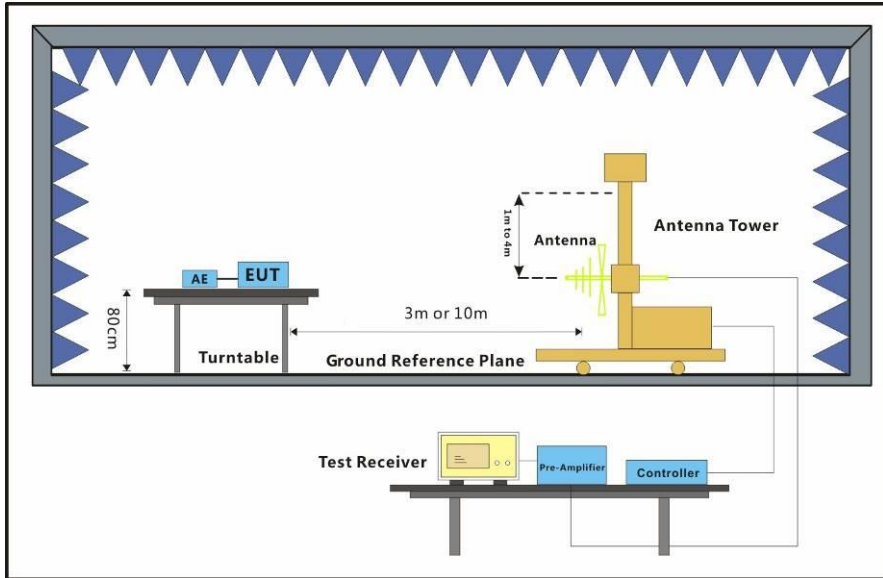
Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: GSM850 Idle+BT+WLAN2.4G+GPS Rx+playing MP4 (SD card)+earphone+EUT1+USB cable1+adapter1
- b:GSM1900 Idle+BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
- c:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1
- d:WCDMA VI Idle+BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
- e:LTE band 2 Idle +BT+FM+ WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- f:LTE band 4 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- g:LTE band 5 Idle +BT+FM+WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- h:LTE band 7 Idle +BT+FM+WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- i:LTE band 38 Idle +BT+FM +WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- j:LTE band 41 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- k:Transfer data between the EUT1 and the PC+USB cable 1
- l:Transfer data between the EUT1 and the PC+USB cable 2
- m:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable2+adapter2
- n:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT2+USB cable2+adapter2
- p:WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT3+USB cable2+adapter2

The worst case for final test: k:Transfer data between the EUT1 and the PC+USB cable 1

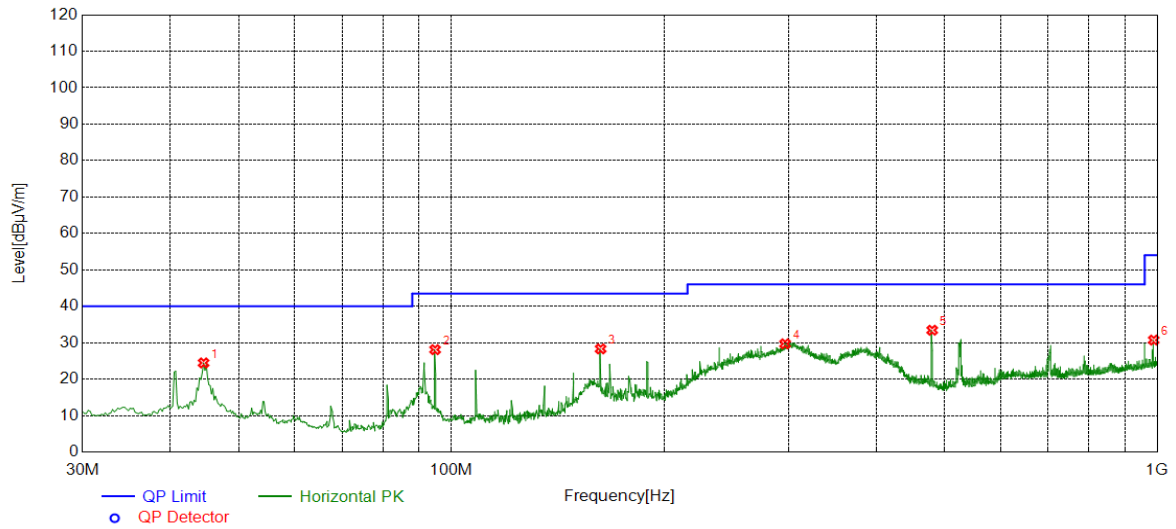
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

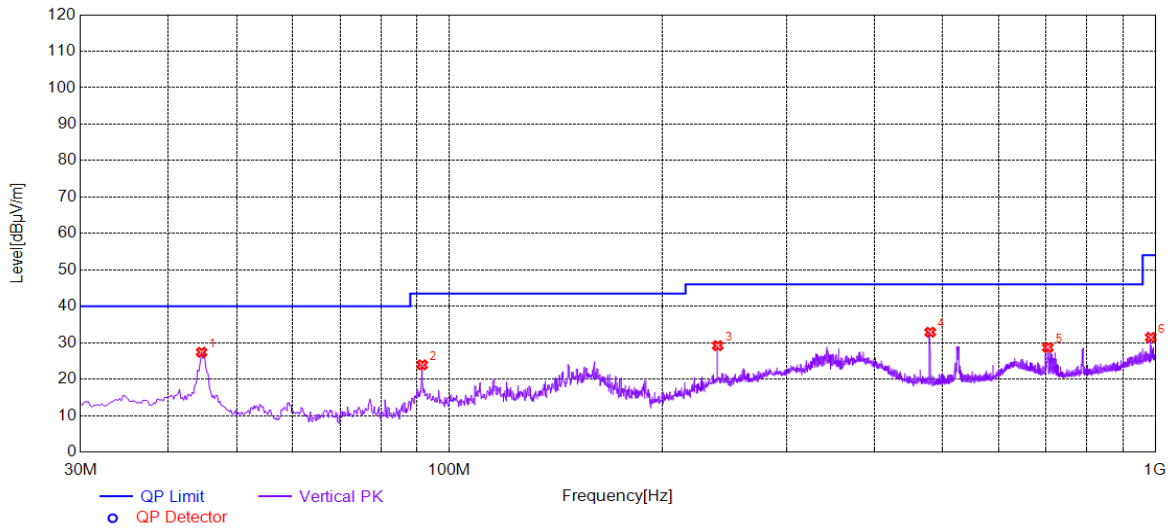
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:k; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5529	24.46	-30.24	40.00	15.54	200	14	Horizontal
2	94.8090	28.10	-32.92	43.50	15.40	200	87	Horizontal
3	162.722	28.31	-34.47	43.50	15.19	200	40	Horizontal
4	296.997	29.70	-28.38	46.00	16.30	100	56	Horizontal
5	479.976	33.44	-23.82	46.00	12.56	200	78	Horizontal
6	988.745	30.73	-14.95	54.00	23.27	100	47	Horizontal

Mode:k; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5529	27.39	-30.24	40.00	12.61	100	66	Vertical
2	91.5103	23.93	-33.46	43.50	19.57	100	235	Vertical
3	239.950	29.20	-30.07	46.00	16.80	200	95	Vertical
4	479.976	32.89	-23.82	46.00	13.11	200	95	Vertical
5	704.478	28.68	-19.40	46.00	17.32	100	111	Vertical
6	985.641	31.47	-14.99	54.00	22.53	100	24	Vertical

6.3 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

6.3.1 E.U.T. Operation

Operating Environment:

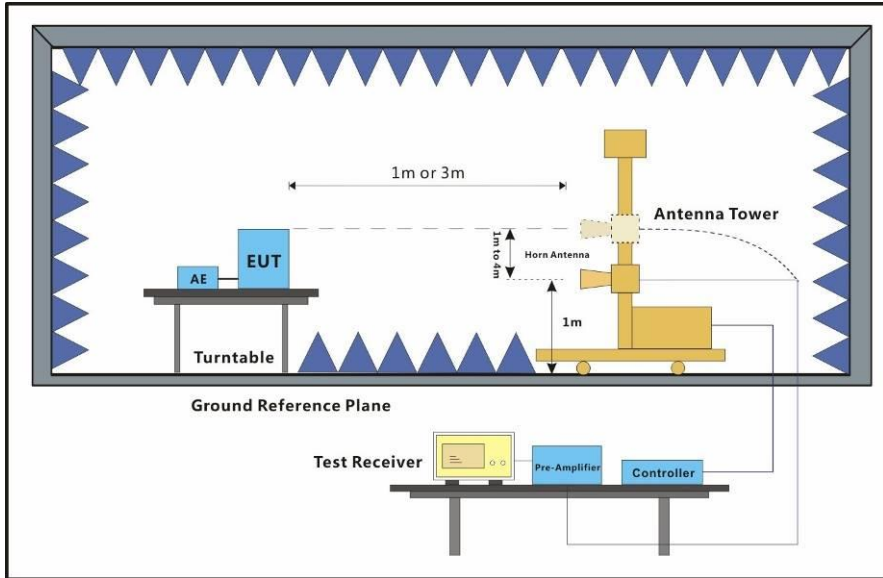
Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: GSM850 Idle+BT+WLAN2.4G+GPS Rx+playing MP4 (SD card)+earphone+EUT1+USB cable1+adapter1
- b:GSM1900 Idle+BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
- c:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1
- d:WCDMA VI Idle+BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1
- e:LTE band 2 Idle +BT+FM+ WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- f:LTE band 4 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- g:LTE band 5 Idle +BT+FM+WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- h:LTE band 7 Idle +BT+FM+WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- i:LTE band 38 Idle +BT+FM +WLAN5G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- j:LTE band 41 Idle +BT+FM +WLAN2.4G+GPS Rx+earphone+EUT1+USB cable1+adapter1
- k:Transfer data between the EUT1 and the PC+USB cable 1
- l:Transfer data between the EUT1 and the PC+USB cable 2
- m:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable2+adapter2
- n:WCDMA II Idle+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT2+USB cable2+adapter2
- p:WCDMA II Link+BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT3+USB cable2+adapter2

The worst case for final test: k:Transfer data between the EUT1 and the PC+USB cable 1

6.3.2 Test Setup Diagram

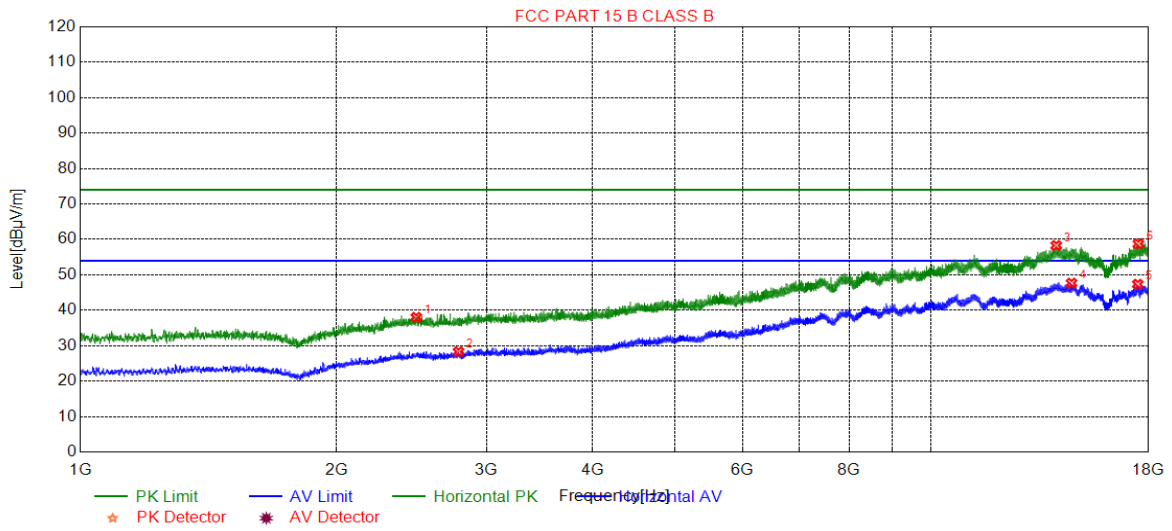


6.3.3 Measurement Data

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.

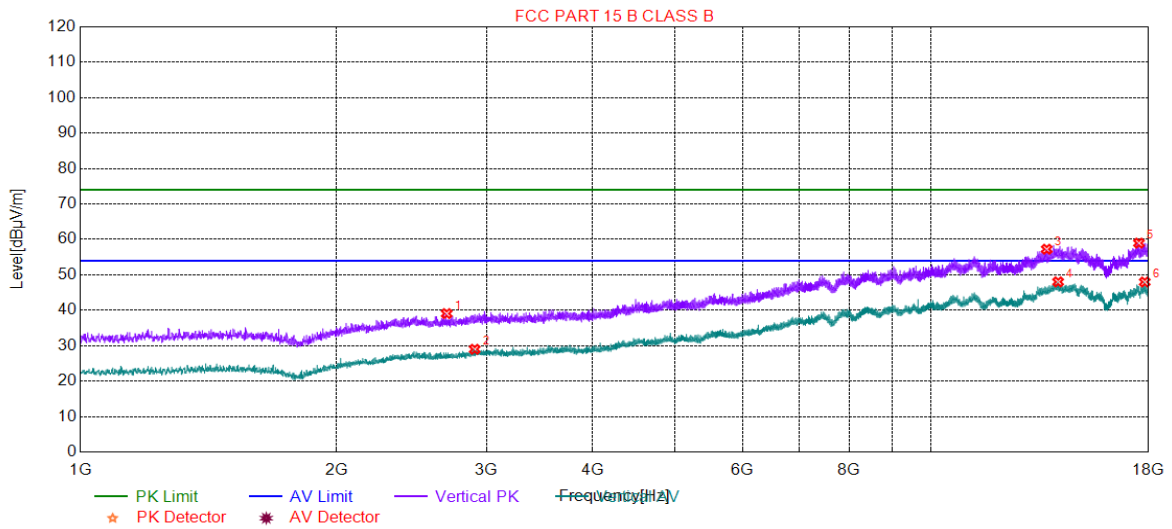


Mode:k; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2481.62	38.01	-25.97	74.00	35.99	100	270	Horizontal
2	2781.68	28.30	-25.28	54.00	25.70	100	156	Horizontal
3	14018.4	58.28	2.26	74.00	15.72	100	5	Horizontal
4	14610.8	47.66	1.61	54.00	6.34	100	344	Horizontal
5	17479.7	47.36	1.38	54.00	6.64	100	344	Horizontal
6	17508.6	58.75	1.59	74.00	15.25	100	194	Horizontal

Mode:k; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2694.13	39.07	-25.58	74.00	34.93	100	91	Vertical
2	2906.64	29.00	-24.73	54.00	25.00	100	53	Vertical
3	13663.9	57.24	1.46	74.00	16.76	100	129	Vertical
4	14090.6	48.02	2.35	54.00	5.98	100	91	Vertical
5	17535.0	58.96	1.42	74.00	15.04	100	318	Vertical
6	17812.1	47.99	0.62	54.00	6.01	100	129	Vertical

Remark:

1) Scan from 1GHz to 30GHz, The disturbance above 18GHz was very low and all noise floor. The above radiated emissions were the highest point could be found when testing, so only the above radiated emissions had been displayed.



7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

7.2 Radiated Emissions (30MHz-1GHz) Test Setup

7.3 Radiated Emissions (above 1GHz) Test Setup

7.4 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -