



TEST REPORT

Application No.: HR/2020/80004
Applicant: Asiatelco Technologies Inc.
Address of Applicant: 4611 Teller Avenue, Suite 110, Newport Beach, CA 92660, USA
Manufacturer: Asiatelco Technologies Inc.
Address of Manufacturer: 4611 Teller Avenue, Suite 110, Newport Beach, CA 92660, USA
Factory: Shenzhen Saidaxin Technology Limited Company
Address of Factory: 6 th Floor, No.1 Building, Saitu Digital Industry Area, Bulan Road, Buji, Longgang District Shenzhen
EUT Description: Athena Phone
Model No.: FR150
Trade Mark: R3Di
FCC ID: 2AXKS-FR150
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/8/14
Date of Test: 2020/9/3 to 2020/9/18
Date of Issue: 2020/9/21

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

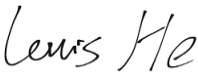
Authorized Signature:

Derek Yang

Wireless Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/9/21		Original

Authorized for issue by:				
		 (Louis He) /Project Engineer		
		 (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

Product Name:	Athena Phone		
Model No.(EUT):	FR150		
Trade Mark:	R3Di		
FCC ID:	2AXKS-FR150		
Hardware Version:	B1		
Software Version:	QC28A-FR150-01418_V01-08_07.24.2020_FCC_i-B1		
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 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	WIFI 2.4G	2412~2462	2412~2462
	BT	2402~2480	2402~2480
Battery Information:	Model:	BL1438	
	Normal Voltage:	+3.8V	
	Rated capacity:	1600mAh	
	Manufacturer:	ZHONGSHAN TIANMAO BATTERY CO.,LTD.	
Adapter Information:	Model:	TPA-97H050055UW01	
	Power Rating	I/P: 100 - 240 Vac, 0.15 A, O/P: 5.0V,550mA	
	Manufacturer:	SHENZHEN TIANYIN ELECTRONICS CO., LTD.	

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	$\pm 3.4\text{dB}$ (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)
3	Temperature test	$\pm 1^{\circ}\text{C}$
4	Humidity test	$\pm 3\%$



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 analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	Rohde & Schwarz	ESR	XAW010801	2020/9/2	2021/9/2
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

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	2020/9/2	2021/9/2
Artificial network	Rohde & Schwarz	ENV216	XAW01-19-02	2020/07/16	2021/7/15
Artificial network	Rohde & Schwarz	ENV216	XAW013001	2020/7/16	2021/7/15
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: Transfer data between the EUT and the PC+USB cable
- b: GSM850 Link+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable+adapter

- c: GSM1900 Link +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter

- d: WCDMA II Link +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT+USB cable+adapter

- e: WCDMA VI Link +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter

- f: WCDMA V Link +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter

- g: CDMA BC0 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- h: CDMA BC1 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- i: CDMA BC10 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- j: LTE band 2 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- k: LTE band 4 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- l: LTE band 5 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- m: LTE band 12 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- n: LTE band 13 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- o: LTE band 25 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

- p: LTE band 26 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter

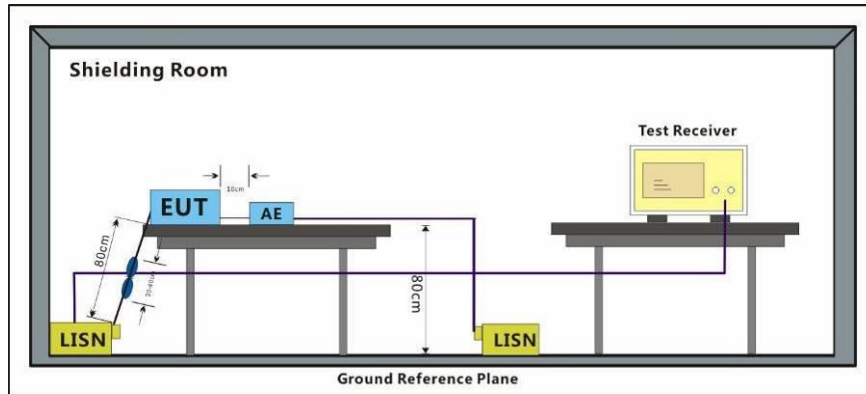
- q: LTE band 41 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter

- r: LTE band 66 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter

- s: LTE band 71 Idle +BT+FM+WLAN2.4G+GNSS Rx +earphone+EUT+USB

The worst case for final test: cable+adapter
b: GSM850 Link+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB
cable+adapter

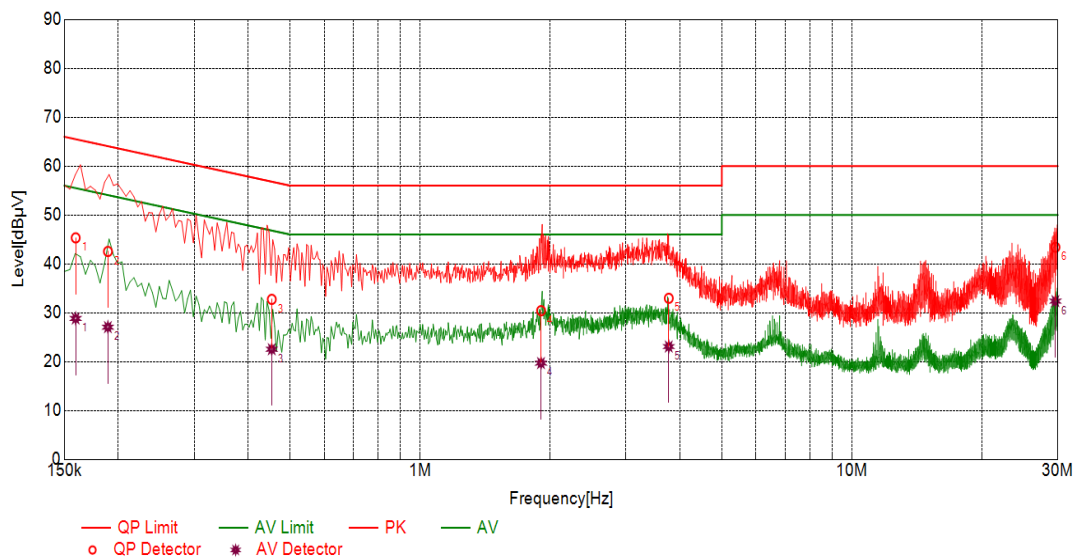
6.1.2 Test Setup Diagram



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.

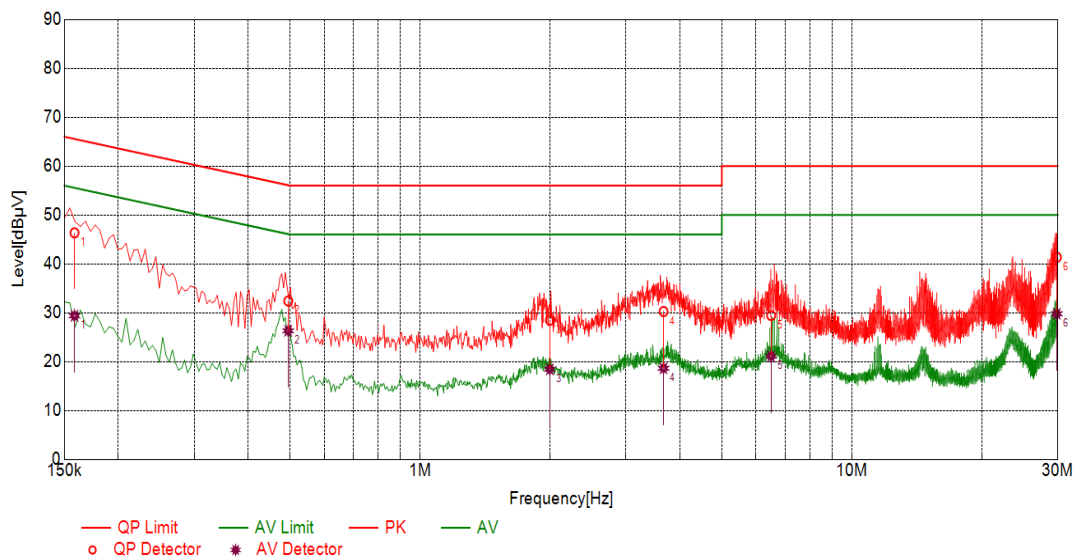
Mode:b; Line:Live Line



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	0.1594	10.10	45.32	65.49	20.17	28.82	55.49	26.67	L
2	0.1893	10.10	42.54	64.07	21.53	27.05	54.07	27.02	L
3	0.4535	10.10	32.74	56.81	24.07	22.53	46.81	24.28	L
4	1.9064	10.10	30.42	56.00	25.58	19.70	46.00	26.30	L
5	3.7675	10.10	32.96	56.00	23.04	23.08	46.00	22.92	L
6	29.6135	10.11	43.40	60.00	16.60	32.37	50.00	17.63	L

Mode:b; 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	0.1584	10.10	46.35	65.55	19.20	29.37	55.55	26.18	N
2	0.4951	10.10	32.40	56.08	23.68	26.30	46.08	19.78	N
3	1.9979	10.10	28.48	56.00	27.52	18.42	46.00	27.58	N
4	3.6637	10.10	30.25	56.00	25.75	18.64	46.00	27.36	N
5	6.5030	10.10	29.44	60.00	30.56	21.11	50.00	28.89	N
6	29.8337	10.11	41.35	60.00	18.65	29.78	50.00	20.22	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:

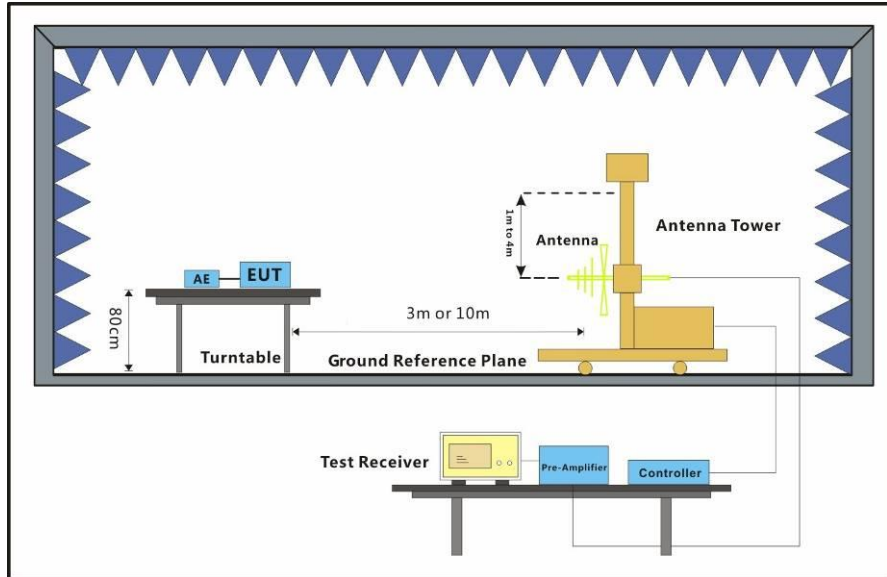
Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable
- b: GSM850 Idle +BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable+adapter
- c: GSM1900 Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- d: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT+USB cable+adapter
- e: WCDMA VI Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- f: WCDMA V Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- g: CDMA BC0 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- h: CDMA BC1 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- i: CDMA BC10 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- j: LTE band 2 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- k: LTE band 4 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- l: LTE band 5 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- m: LTE band 12 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- n: LTE band 13 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- o: LTE band 25 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- p: LTE band 26 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- q: LTE band 41 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- r: LTE band 66 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- s: LTE band 71 Idle +BT+FM+WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter

The worst case for final test: c:GSM1900 Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter

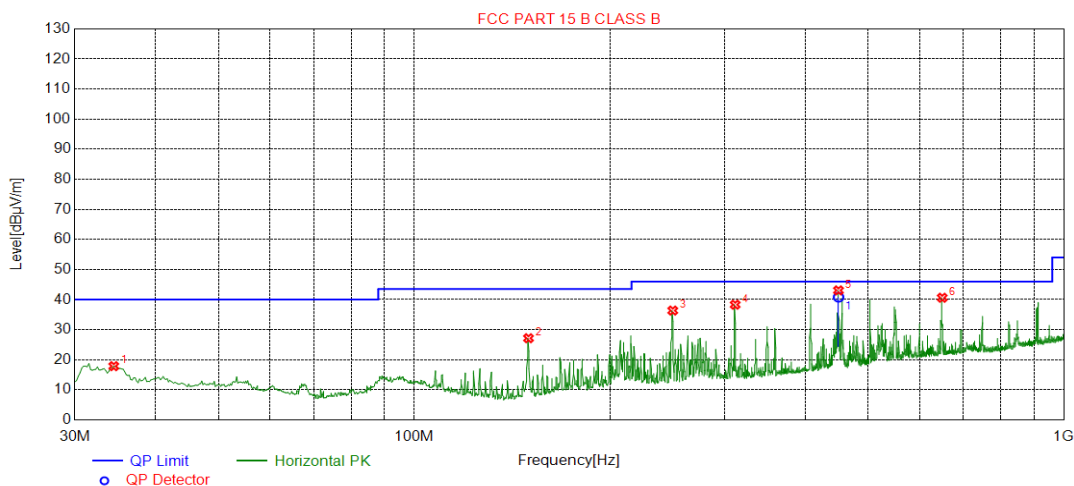
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

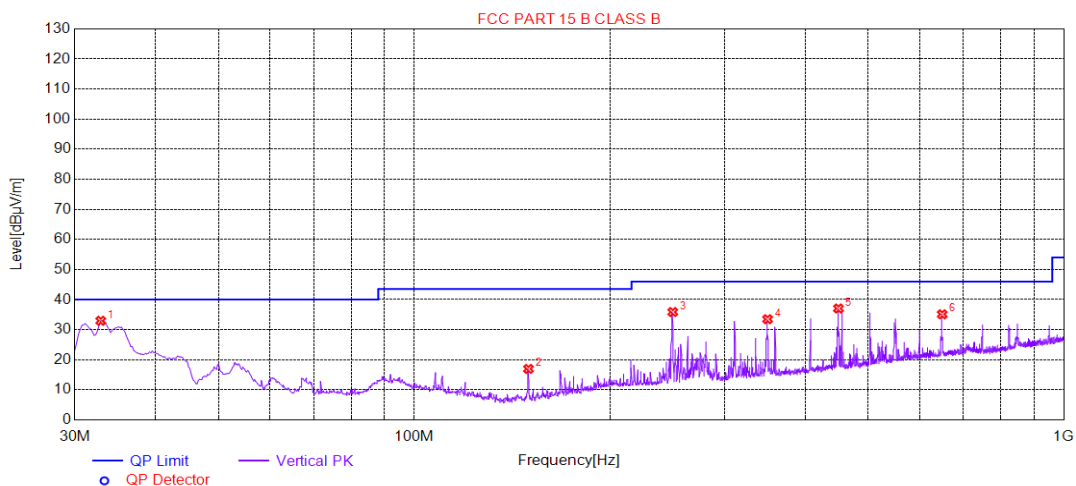
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:c; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.4629	17.88	-29.97	40.00	22.12	200	256	Horizontal
2	149.916	27.17	-35.08	43.50	16.33	200	37	Horizontal
3	250.040	36.36	-29.66	46.00	9.64	100	112	Horizontal
4	311.938	38.32	-27.93	46.00	7.68	100	42	Horizontal
5	449.900	43.07	-24.38	46.00	2.93	100	346	Horizontal
6	649.954	40.63	-20.03	46.00	5.37	100	24	Horizontal

Mode:c; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9106	32.97	-30.01	40.00	7.03	100	314	Vertical
2	149.916	16.97	-35.08	43.50	26.53	100	326	Vertical
3	250.040	35.88	-29.66	46.00	10.12	100	8	Vertical
4	349.970	33.49	-26.87	46.00	12.51	100	288	Vertical
5	449.900	37.06	-24.38	46.00	8.94	100	258	Vertical
6	649.954	35.13	-20.03	46.00	10.87	100	72	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:

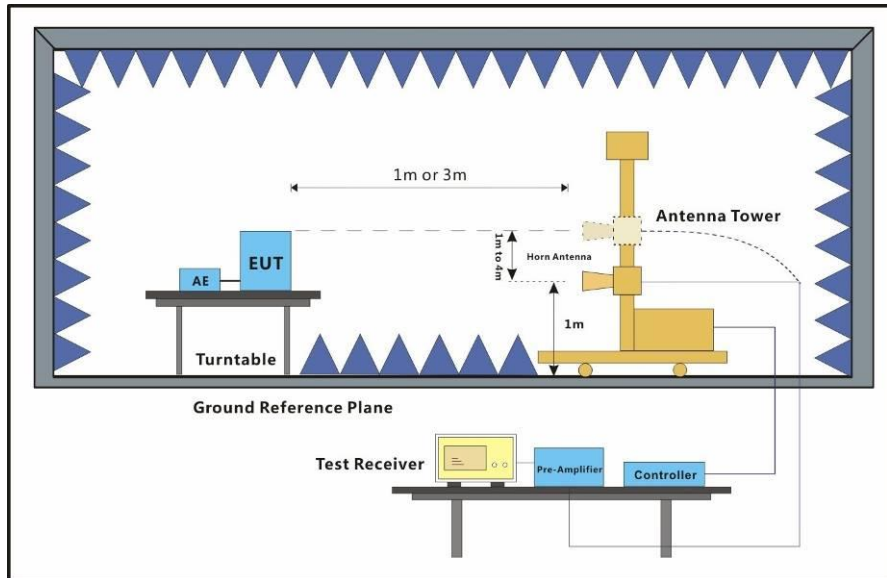
Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable
- b: GSM850 Idle +BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable+adapter
- c: GSM1900 Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- d: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT+USB cable+adapter
- e: WCDMA VI Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- f: WCDMA V Idle +BT+WLAN2.4G+GPS Rx+camera (Back)+earphone+EUT+USB cable+adapter
- g: CDMA BC0 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- h: CDMA BC1 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
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- n: LTE band 13 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- o: LTE band 25 Idle +BT+ WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- p: LTE band 26 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- q: LTE band 41 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- r: LTE band 66 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable+adapter
- s: LTE band 71 Idle +BT+FM+WLAN2.4G+GNSS Rx +earphone+EUT+USB cable+adapter
- d: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT+USB cable+adapter

The worst case for final test:

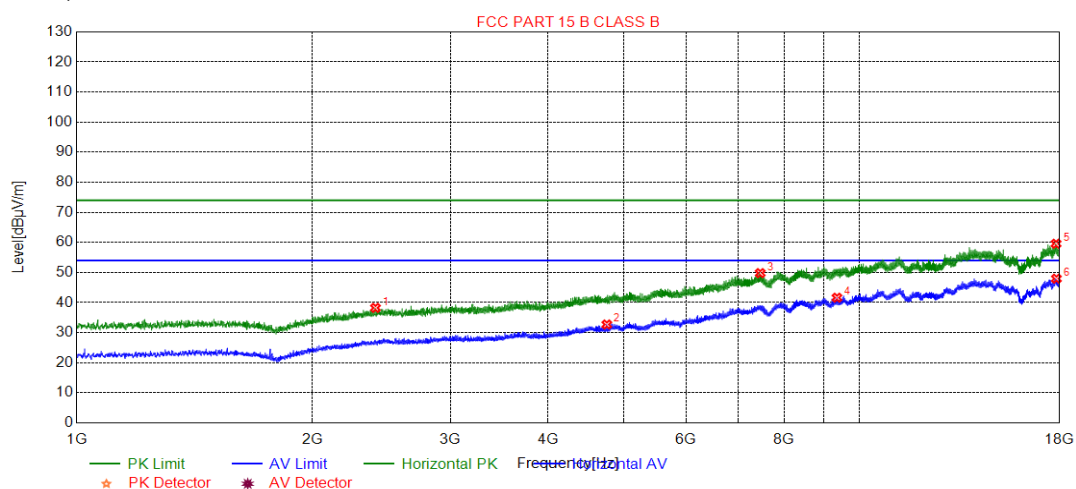
6.3.2 Test Setup Diagram



6.3.3 Measurement Data

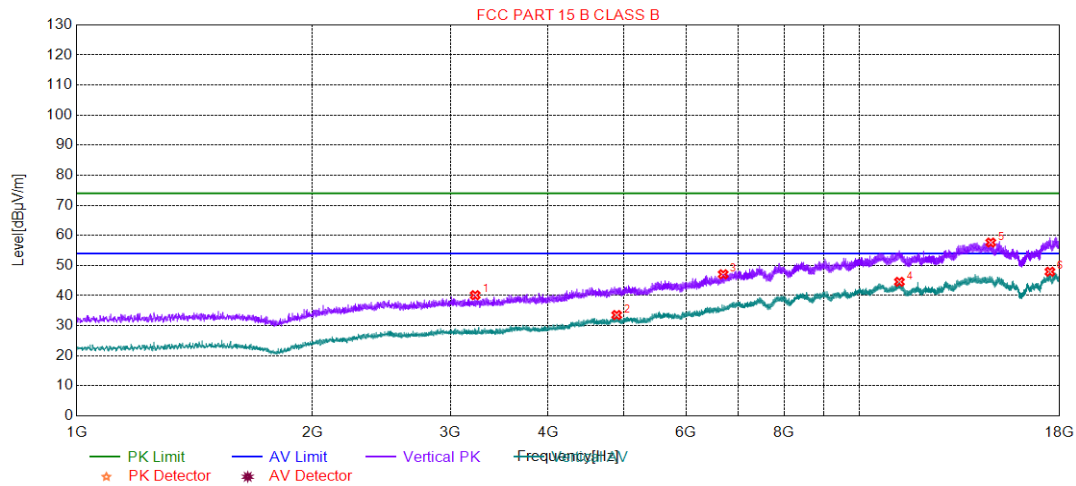
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

Mode:d; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2407.67	38.26	-26.44	74.00	35.74	200	5	Horizontal
2	4752.93	32.73	-18.54	54.00	21.27	200	344	Horizontal
3	7462.02	49.81	-9.82	74.00	24.19	200	156	Horizontal
4	9350.81	41.64	-5.68	54.00	12.36	200	156	Horizontal
5	17808.7	59.59	0.64	74.00	14.41	100	241	Horizontal
6	17824.8	47.97	0.55	54.00	6.03	200	5	Horizontal

Mode:d; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3227.96	40.15	-24.00	74.00	33.85	200	119	Vertical
2	4893.19	33.55	-17.81	54.00	20.45	200	231	Vertical
3	6691.88	47.10	-12.31	74.00	26.90	200	119	Vertical
4	11237.0	44.58	-2.80	54.00	9.42	100	128	Vertical
5	14697.5	57.65	1.68	74.00	16.35	200	269	Vertical
6	17491.6	47.94	1.53	54.00	6.06	200	6	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 -