



Report No.: ZR/2020/1002302

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TEST REPORT

Application No.: ZR/2020/10023
Applicant: TCL Communication Ltd
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
EUT Name: LTE/WCDMA/GSM mobile phone
Model No.: 5007A
Trade mark: Alcatel
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2019-11-12
Date of Test: 2019-11-13 to 2019-11-27
Date of Issue: 2020-3-5

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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-3-5		Original

Authorized for issue by:				
			2020-3-5	
		(Mike Hu) /Project Engineer	Date	
			2020-3-5	
		(David Chen) /Reviewer	Date	



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Remark:

The difference between 5007G to 5007A:

- SOFTWARE MODIFICATIONS:
 - Protocol Stack changes: No
 - MMS/STK/USAT/USIM changes: No
 - DM/SUPL/VT/FUMO/SWP/HCI: No
 - Other changes detailed:
- HARDWARE MODIFICATIONS:
 - Band changes: No
 - PCB layout changes: No
 - Main components changes:

	Antenna	Base Band	Transceiver	ASM	Power Amplifier	Tx SAW Filter	Rx SAW Filter	Duplexer
GSM850	No	No	No	No	No	No	No	No
GSM900	No	No	No	No	No	No	No	No
GSM1800	No	No	No	No	No	No	No	No
GSM1900	No	No	No	No	No	No	No	No
UMTS2100	No	No	No	No	No	No	No	No
UMTS1900	No	No	No	No	No	No	No	No
UMTS1700	No	No	No	No	No	No	No	No
UMTS900	No	No	No	No	No	No	No	No
UMTS850	No	No	No	No	No	No	No	No
LTE 2	No	No	No	No	No	No	No	No
LTE 3	No	No	No	No	No	No	No	No
LTE 4	No	No	No	No	No	No	No	No
LTE 5	No	No	No	No	No	No	No	No
LTE 7	No	No	No	No	No	No	No	No
LTE 8	No	No	No	No	No	No	No	No
LTE 13	No	No	No	No	No	No	No	No
LTE 17	No	No	No	No	No	No	No	No
LTE 28	No	No	No	No	No	No	No	No
LTE 66	No	No	No	No	No	No	No	No
Bluetooth	No	No	No	No	No	No	No	No
WiFi	No	No	No	No	No	No	No	No
NFC	No	No	No	No	No	No	No	No

- FM changes: No
- Other components changes:
 - LCD/ Speaker/ Camera/ Vibrator changes: No
- Other changes detailed: delete SIM2 to support single SIM and enable receiver function for LTE B7 and Wi-Fi to reduce SAR.

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- MECHANICAL MODIFICATIONS:
Use new metal front/back cover or keypad: No
- Mechanical shell changes:
Whole size of EUT: No
- Distance of Ear reference point to bottom of handset: No
- Other trinkets to change the surface of handset: No
- Other changes detailed:

According to the difference above, spot check has been tested on 5007A with the data of 5007A from the report of 5007G (Report No.: ZR/2019/B001308), only worst data show in this report.



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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

4.1 Details of E.U.T.

Power supply:	DC 3.85V from internal rechargeable battery or from AC/DC adapter Model No.: UC13US AC Input: 100-240V 50/60Hz 0.5A DC Output: DC 5V 2A
Cable:	USB cable: 100cm unshielded Earphone cable: 115cm unshielded

	No.	P/N	Remark	Comment
Adaptor	1	CBA0058AGAC5	UC11US; 5.0 V,1000 mA, PUAN ;	-
	2	CBA0058AGAC7	UC11US; 5.0 V,1000 mA, CHENYANG ;	-
	3	CBA0059AGAC5	UC13US; 5.0 V,2000 mA, PUAN	-
	4	CBA0059AGAC7	UC13US; 5.0 V,2000 mA, CHENYANG	-
USB cable	1	CDA3122005C1	JUWEI	-
	2	CDA3122005C2	Shenhua	-
	3	CDA0000024C8	PUAN	-
	4	CDA0000024C2	JUWEI	-
Headset	1	CCB0049A10C1	alcatel logo	-
	2	CCB0049A12C1	-	Same with CCB0049A10C1, only remove alcatel logo
	3	CCB0049A10C4	alcatel logo	-
	4	CCB0049A12C4	-	Same with CCB0049A10C4, only remove alcatel logo
	5	CCB0046A10C1	alcatel logo	-
	6	CCB0046A15C1	-	Same with CCB0046A10C1, only remove alcatel logo
	7	CCB0046A10C4	alcatel logo	-
	8	CCB0046A15C4	-	Same with CCB0046A10C4, only remove alcatel logo
Battery	1	CAC3860024C1	TLp038D1; BYD	-
	2	CAC3860025C7	TLp038D7; VEKEN;	-

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4.2 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

4.3 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	e: Transfer data between the EUT and the PC+USB cable1 f: Transfer data between the EUT and the PC+USB cable2 g: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery+Cable(worst)+adapter(worst of 1 and 2) h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery+Cable(worst)+adapter(worst of 1 and 3) i: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone+battery+Cable(worst)+Cable(worst)+adapter(Worst) j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+Cable(worst)+adapter(Worst) k: GSM 850+BT+WLAN +GPS Rx+FM+earphone+battery+Cable(worst)+adapter(Worst) l: GSM 1900+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst) m: WCDMA Band II+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst) n: WCDMA Band IV+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst) o: WCDMA Band V+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst) p: LTE band 2+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst) q: LTE band 4+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) r: LTE band 5+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) s: LTE band 7+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) t: LTE band 12+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) u: LTE band 13+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) v: LTE band 17+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst) w: LTE band 66+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst)
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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%

4.5 Test Location

All tests were performed at:

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518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-12	2020-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-25	2020-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-02	2020-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-02	2020-04-01

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2019-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-12	2020-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-02	2020-04-01
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2020-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-13	2020-04-12

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-12	2020-07-11
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2019-04-13	2020-04-12
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2019-04-13	2021-04-12
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-27	2020-09-26



General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-27	2020-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-27	2020-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-27	2020-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-08	2020-04-07

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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

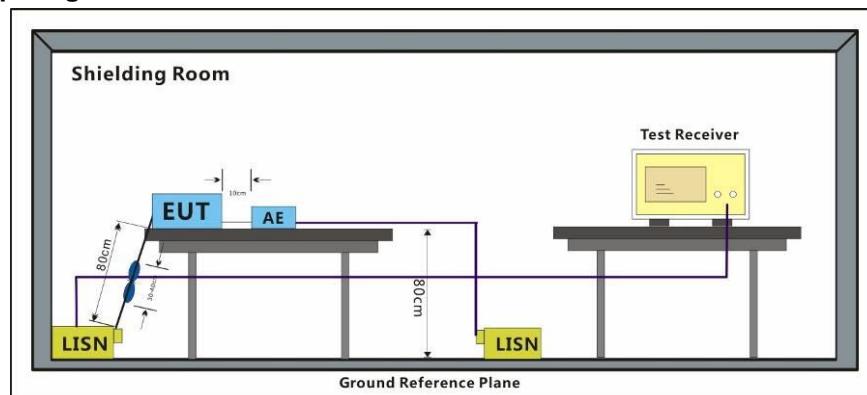
Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	20.3 °C	Humidity:	58.1 % RH	Atmospheric Pressure:	1005 mbar
The worst case for final test:	e: Transfer data between the EUT and the PC+USB cable1				
	g: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery+Cable1+adapter1				
	h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery+ Cable1+adapter2				
	i: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone+battery+ Cable1+ Cable1+adapter2				
	j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+ Cable1+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.

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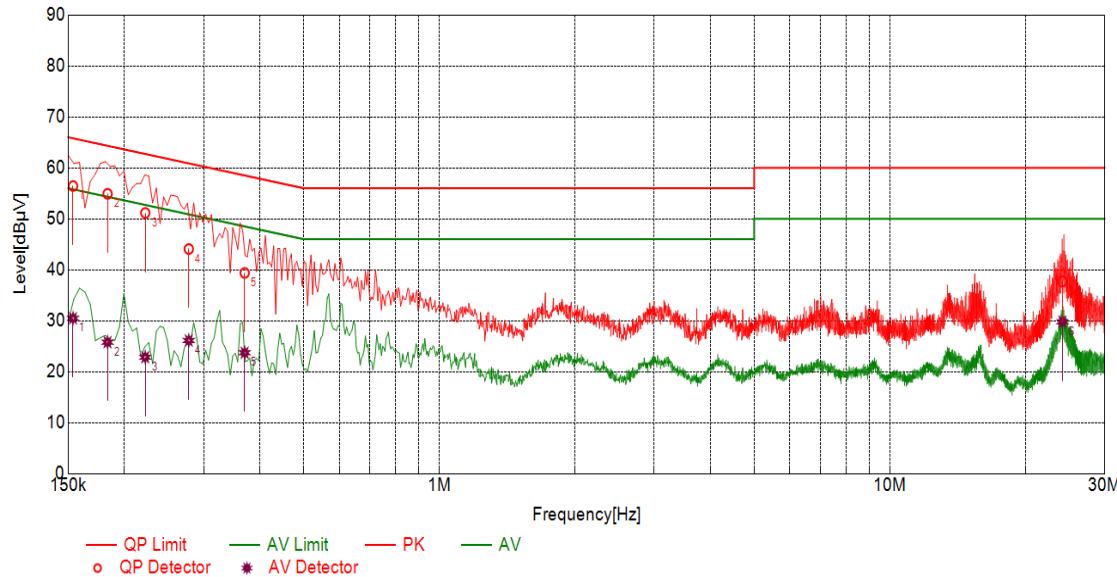
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Mode:e; Line:Live Line

**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	0.1538	10.10	56.43	65.79	9.36	30.49	55.79	25.30	L
2	0.1835	10.10	54.90	64.33	9.43	25.79	54.33	28.54	L
3	0.2225	10.10	51.15	62.73	11.58	22.84	52.73	29.89	L
4	0.2779	10.10	44.07	60.88	16.81	26.12	50.88	24.76	L
5	0.3698	10.10	39.39	58.51	19.12	23.72	48.51	24.79	L
6	24.1551	10.11	37.73	60.00	22.27	29.80	50.00	20.20	L

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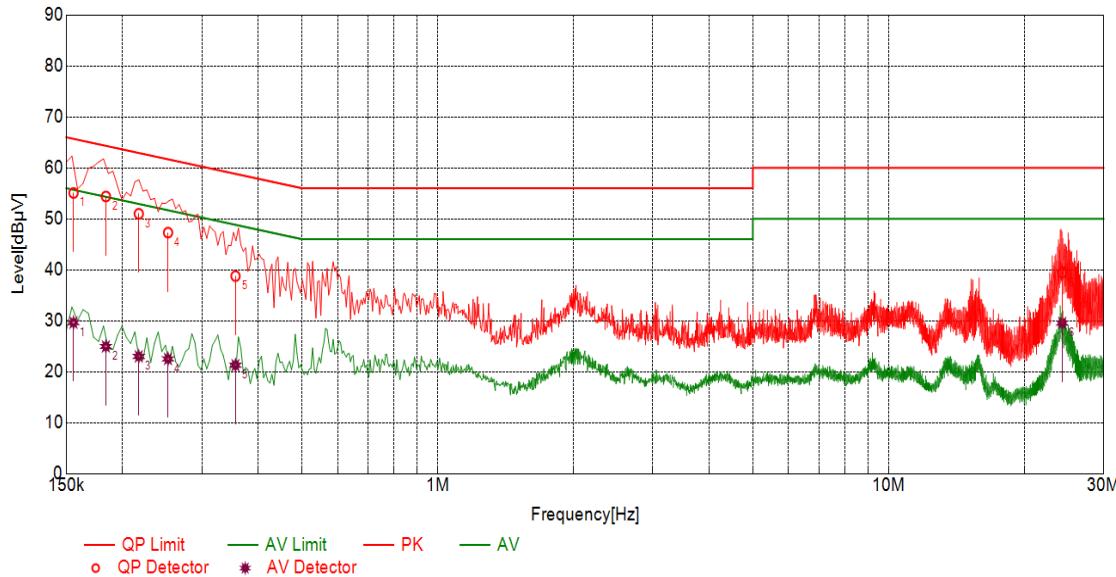
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Mode:e; Line:Neutral Line

**Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Typ
1	0.1557	10.10	55.07	65.69	10.62	29.62	55.69	26.07	N
2	0.1837	10.10	54.38	64.32	9.94	24.95	54.32	29.37	N
3	0.2173	10.10	51.00	62.92	11.92	23.00	52.92	29.92	N
4	0.2523	10.10	47.29	61.68	14.39	22.51	51.68	29.17	N
5	0.3561	10.10	38.76	58.82	20.06	21.27	48.82	27.55	N
6	24.2708	10.11	39.48	60.00	20.52	29.55	50.00	20.45	N

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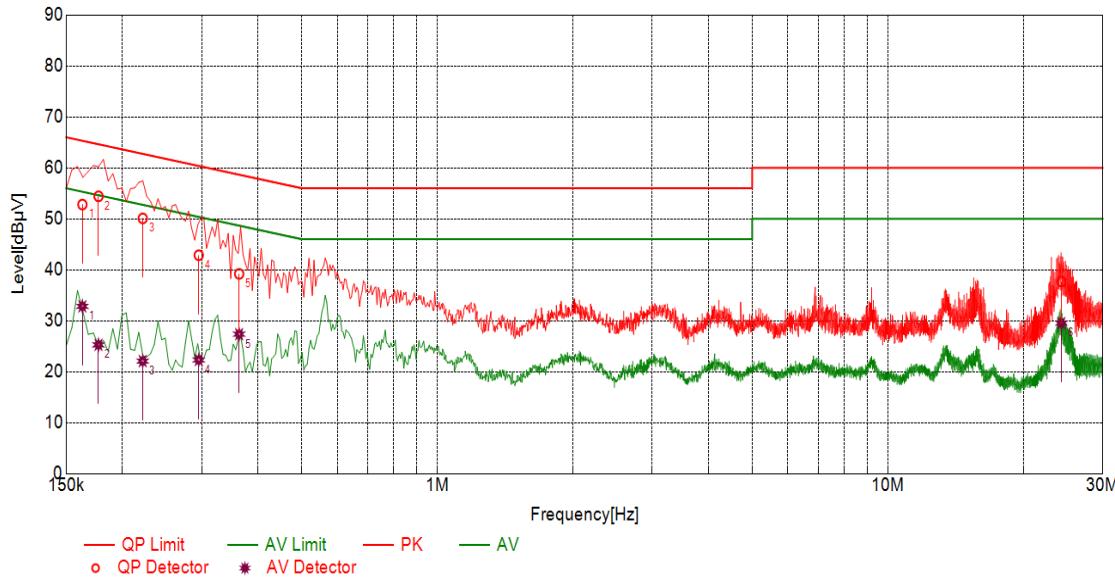
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Mode:g; Line:Live Line

**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	0.1630	10.10	52.80	65.31	12.51	32.83	55.31	22.48	L
2	0.1770	10.10	54.42	64.62	10.20	25.27	54.62	29.35	L
3	0.2219	10.10	50.08	62.75	12.67	22.08	52.75	30.67	L
4	0.2954	10.10	42.86	60.37	17.51	22.30	50.37	28.07	L
5	0.3632	10.10	39.20	58.66	19.46	27.36	48.66	21.30	L
6	24.2749	10.11	37.70	60.00	22.30	29.52	50.00	20.48	L

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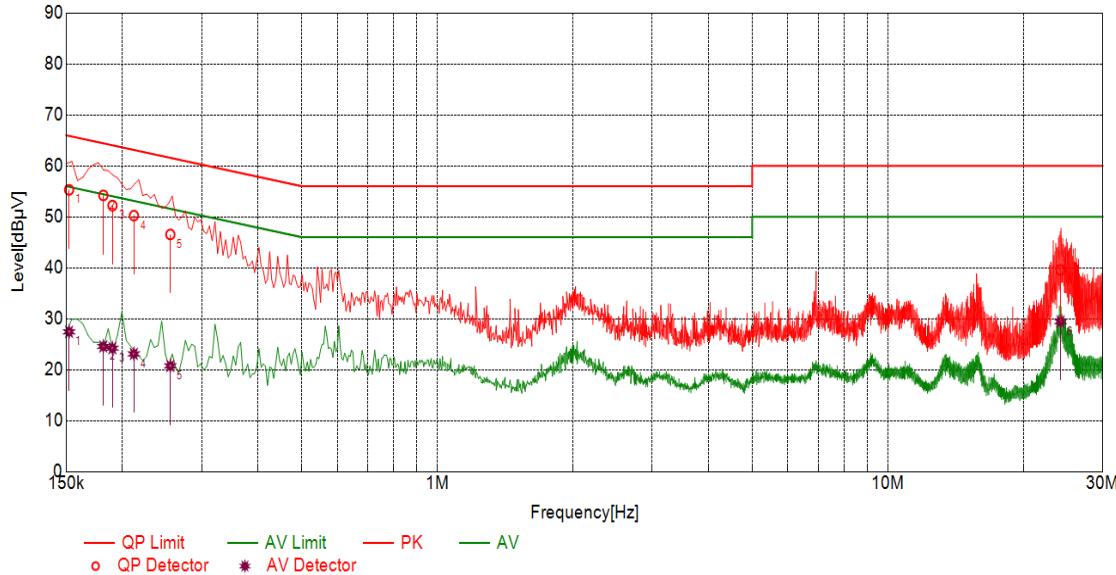
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Mode:g; Line:Neutral Line

**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	0.1523	10.10	55.30	65.87	10.57	27.43	55.87	28.44	N
2	0.1814	10.10	54.21	64.42	10.21	24.56	54.42	29.86	N
3	0.1901	10.10	52.21	64.03	11.82	24.22	54.03	29.81	N
4	0.2121	10.10	50.24	63.12	12.88	23.10	53.12	30.02	N
5	0.2555	10.10	46.54	61.58	15.04	20.74	51.58	30.84	N
6	24.1733	10.11	39.57	60.00	20.43	29.44	50.00	20.56	N

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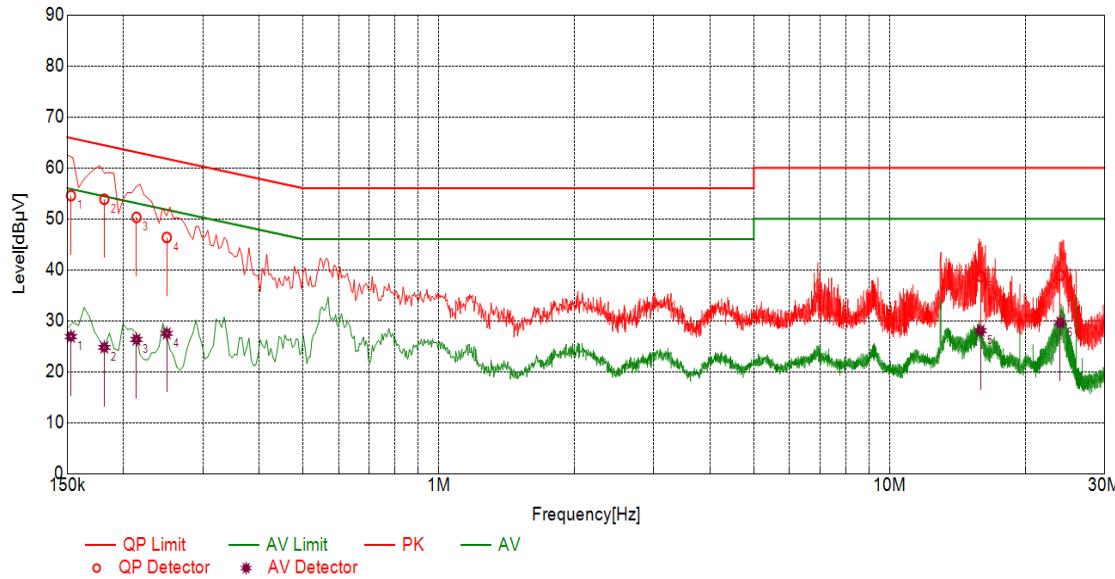
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Mode:h; Line:Live Line

**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	0.1529	10.10	54.56	65.84	11.28	26.89	55.84	28.95	L
2	0.1813	10.10	53.85	64.43	10.58	24.76	54.43	29.67	L
3	0.2137	10.10	50.28	63.06	12.78	26.32	53.06	26.74	L
4	0.2494	10.10	46.35	61.78	15.43	27.51	51.78	24.27	L
5	15.9239	10.11	38.67	60.00	21.33	28.06	50.00	21.94	L
6	23.9136	10.11	38.94	60.00	21.06	29.62	50.00	20.38	L

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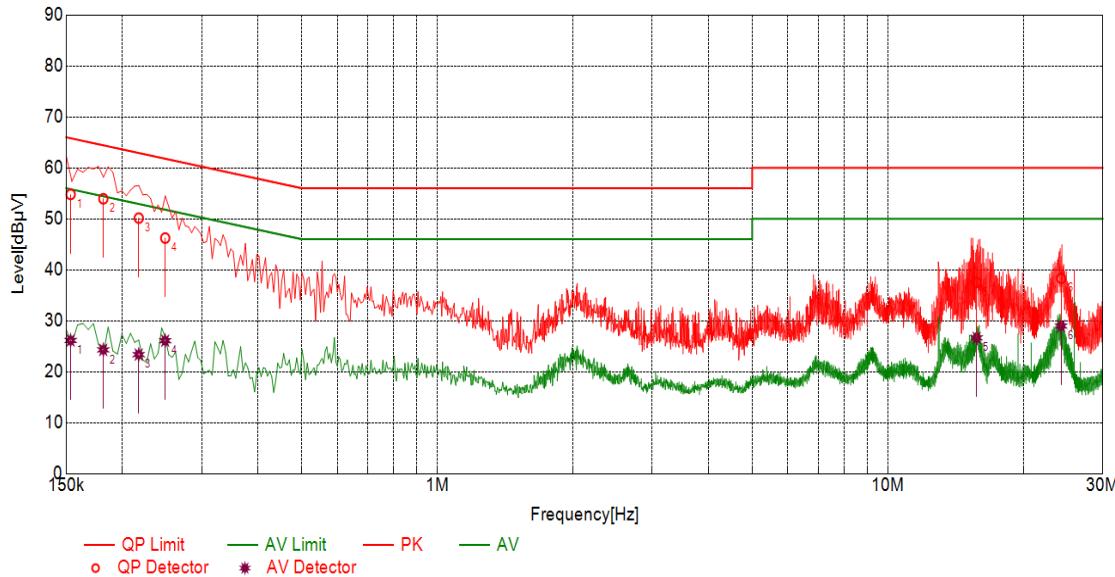
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Mode:h; Line:Neutral Line

**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	0.1535	10.10	54.80	65.81	11.01	26.12	55.81	29.69	N
2	0.1814	10.10	53.94	64.42	10.48	24.29	54.42	30.13	N
3	0.2174	10.10	50.14	62.92	12.78	23.36	52.92	29.56	N
4	0.2489	10.10	46.22	61.79	15.57	26.09	51.79	25.70	N
5	15.7415	10.11	37.51	60.00	22.49	26.64	50.00	23.36	N
6	24.2466	10.11	38.34	60.00	21.66	28.96	50.00	21.04	N

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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(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

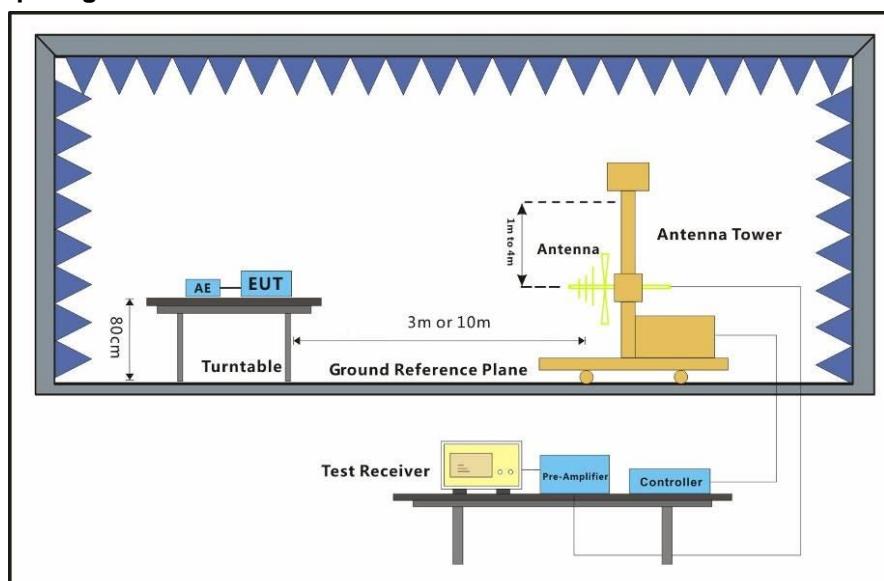
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

The worst case f: Transfer data between the EUT and the PC+USB cable2
for final test: h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone1+battery+ Cable1+adapter2

6.2.2 Test Setup Diagram



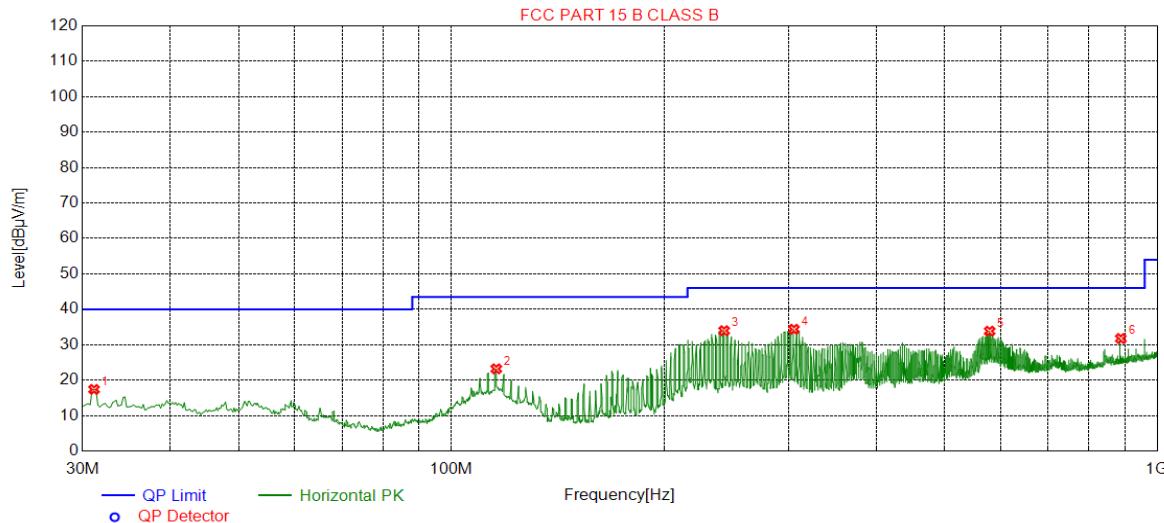
6.2.3 Measurement Data

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.

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Mode:f; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	17.39	-30.05	40.00	22.61	100	274	Horizontal
2	115.7652	23.20	-32.91	43.50	20.30	100	164	Horizontal
3	243.4427	33.96	-29.93	46.00	12.04	100	234	Horizontal
4	305.7291	34.37	-28.10	46.00	11.63	100	204	Horizontal
5	578.9358	33.83	-21.22	46.00	12.17	100	141	Horizontal
6	888.0396	31.76	-16.23	46.00	14.24	100	228	Horizontal

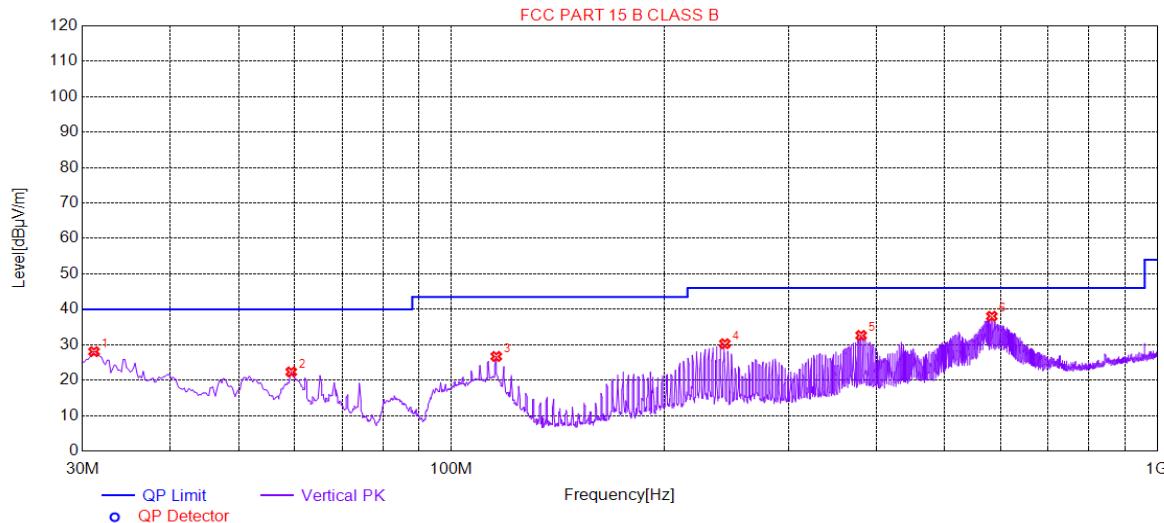
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Mode:f; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	28.06	-30.05	40.00	11.94	100	283	Vertical
2	59.2999	22.33	-31.76	40.00	17.67	100	214	Vertical
3	115.7652	26.69	-32.91	43.50	16.81	100	346	Vertical
4	244.0248	30.28	-29.90	46.00	15.72	100	176	Vertical
5	380.6281	32.63	-26.05	46.00	13.37	100	170	Vertical
6	583.0106	38.04	-21.11	46.00	7.96	100	303	Vertical

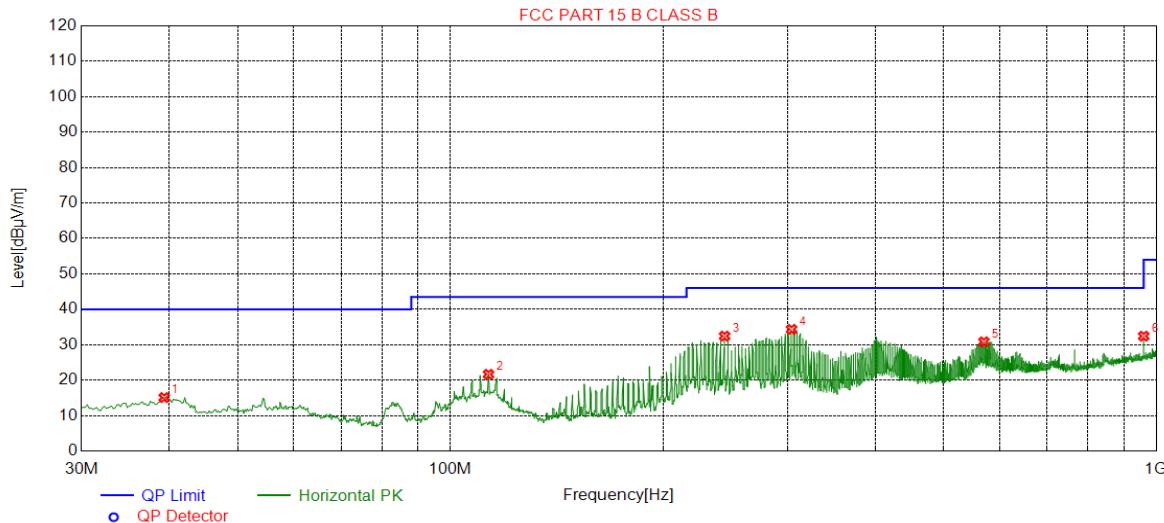
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Mode:h; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.3139	15.09	-28.56	40.00	24.91	100	158	Horizontal
2	113.2426	21.65	-32.51	43.50	21.85	100	69	Horizontal
3	244.6069	32.43	-29.88	46.00	13.57	100	210	Horizontal
4	304.3709	34.34	-28.14	46.00	11.66	100	272	Horizontal
5	570.0100	30.83	-21.48	46.00	15.17	100	328	Horizontal
6	960.0280	32.42	-15.34	54.00	21.58	100	75	Horizontal

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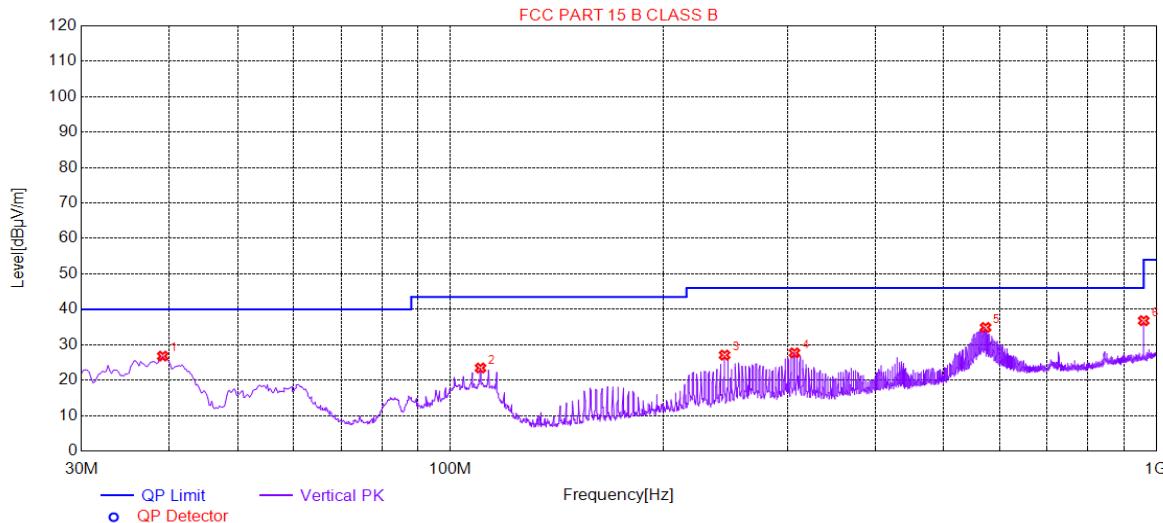
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Mode:h; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.1198	26.79	-28.63	40.00	13.21	100	288	Vertical
2	110.3321	23.44	-32.05	43.50	20.06	100	93	Vertical
3	244.6069	27.07	-29.88	46.00	18.93	100	338	Vertical
4	307.2815	27.70	-28.06	46.00	18.30	100	329	Vertical
5	573.1146	34.87	-21.39	46.00	11.13	100	346	Vertical
6	960.0280	36.78	-15.34	54.00	17.22	100	288	Vertical

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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(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.3.1 E.U.T. Operation

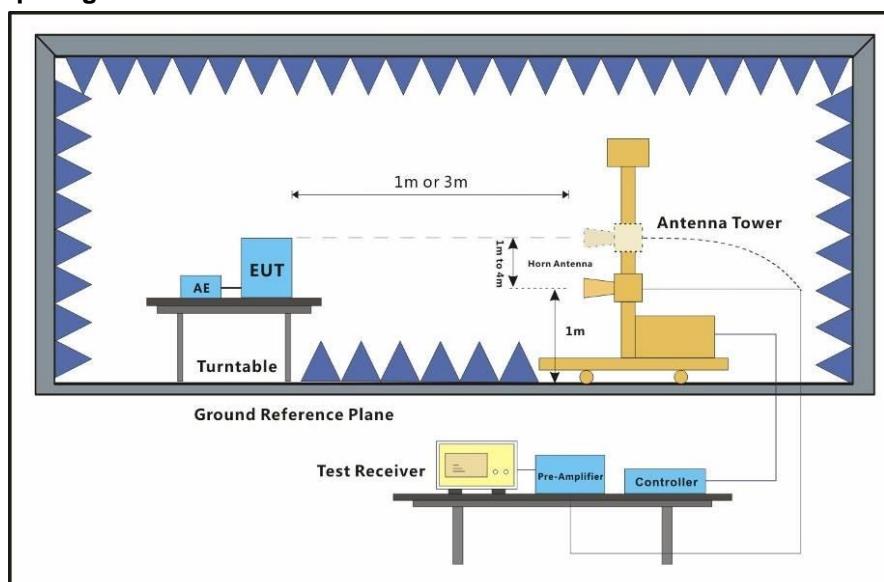
Operating Environment:

Temperature: 23.3 °C Humidity: 56.2 % RH Atmospheric Pressure: 1005 mbar

The worst case e: Transfer data between the EUT and the PC+USB cable1

for final test: j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+Cable1+adapter2

6.3.2 Test Setup Diagram



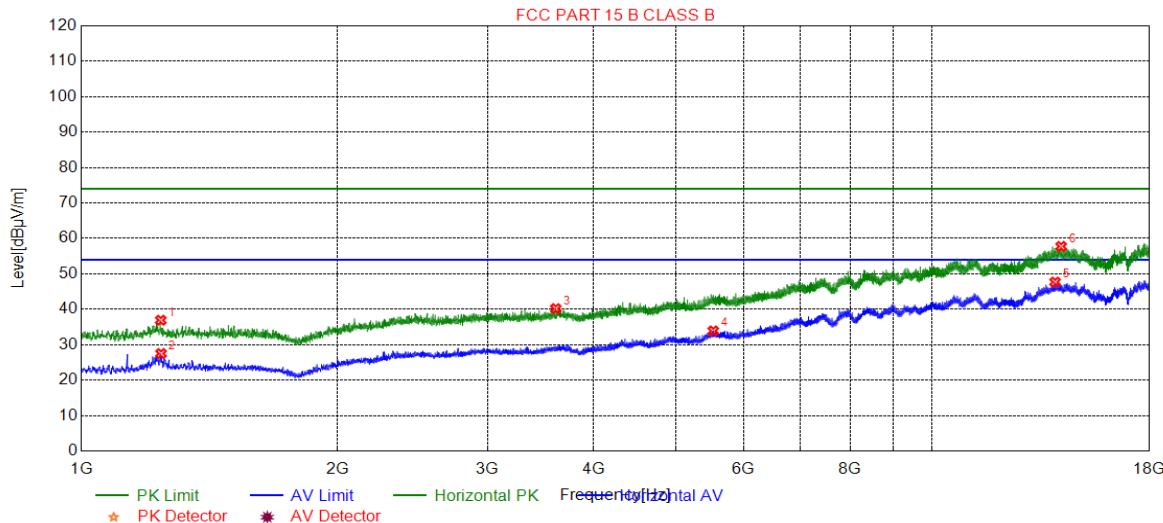
6.3.3 Measurement Data

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.

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Mode:e; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1239.7120	36.92	-31.06	74.00	37.08	100	220	Horizontal
2	1240.5620	27.52	-31.06	54.00	26.48	100	220	Horizontal
3	3609.6305	40.20	-22.70	74.00	33.80	200	39	Horizontal
4	5527.3264	33.91	-15.98	54.00	20.09	100	69	Horizontal
5	13938.4969	47.69	2.20	54.00	6.31	100	320	Horizontal
6	14168.8584	57.75	2.16	74.00	16.25	100	220	Horizontal

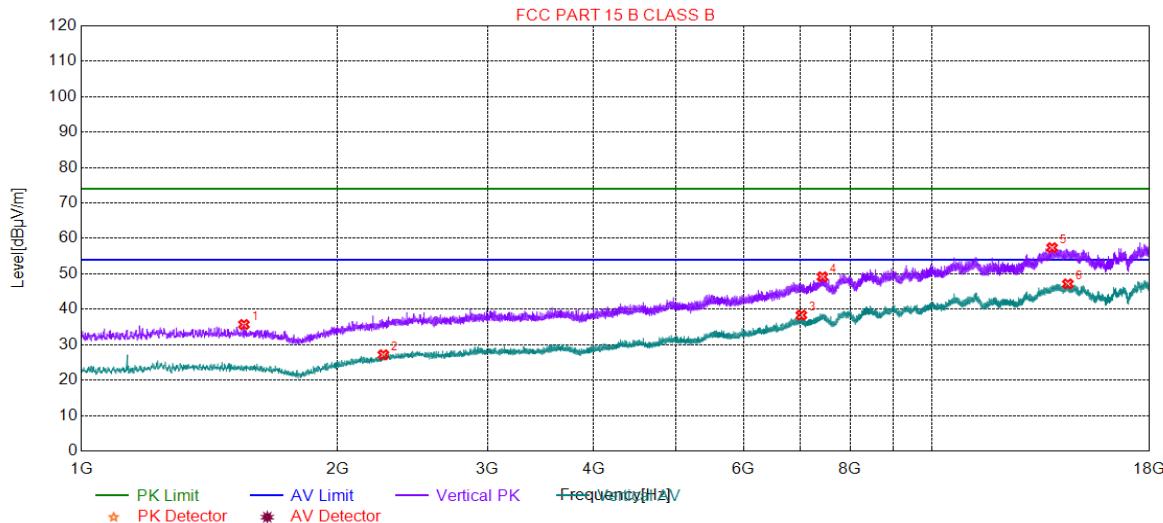
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Mode:e; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1552.5276	35.70	-30.37	74.00	38.30	200	190	Vertical
2	2264.0132	27.16	-27.19	54.00	26.84	200	0	Vertical
3	7014.9007	38.34	-11.07	54.00	15.66	100	322	Vertical
4	7426.3213	49.16	-9.91	74.00	24.84	100	272	Vertical
5	13823.7412	57.37	1.86	74.00	16.63	100	170	Vertical
6	14428.1214	47.16	1.84	54.00	6.84	200	39	Vertical

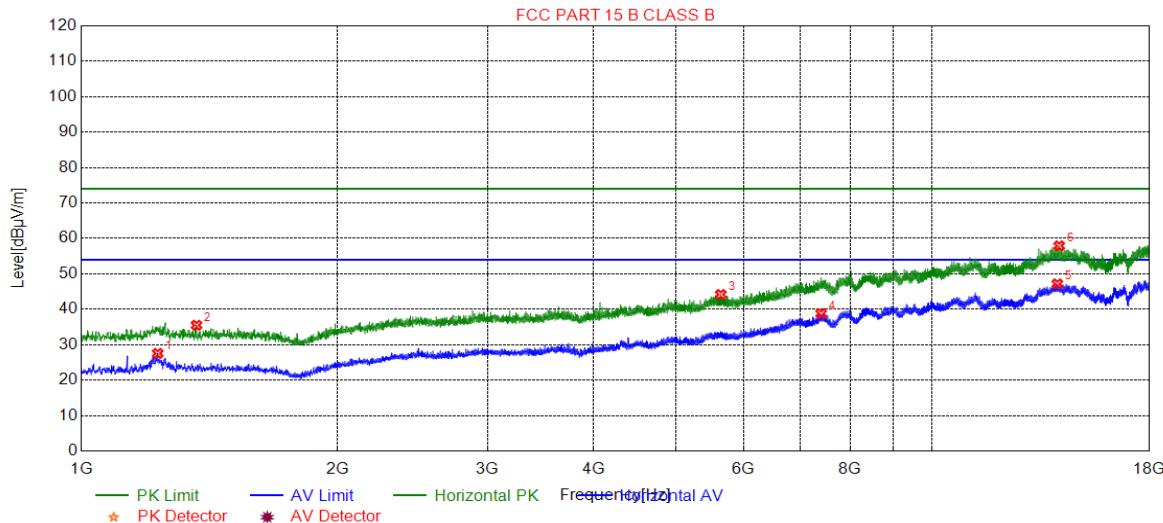
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Mode:j; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1229.5115	27.55	-31.11	54.00	26.45	100	220	Horizontal
2	1365.5183	35.51	-30.45	74.00	38.49	100	220	Horizontal
3	5641.2321	44.18	-15.77	74.00	29.82	100	360	Horizontal
4	7399.9700	38.78	-9.98	54.00	15.22	100	119	Horizontal
5	14021.8011	47.18	2.27	54.00	6.82	100	360	Horizontal
6	14092.3546	57.91	2.35	74.00	16.09	100	18	Horizontal

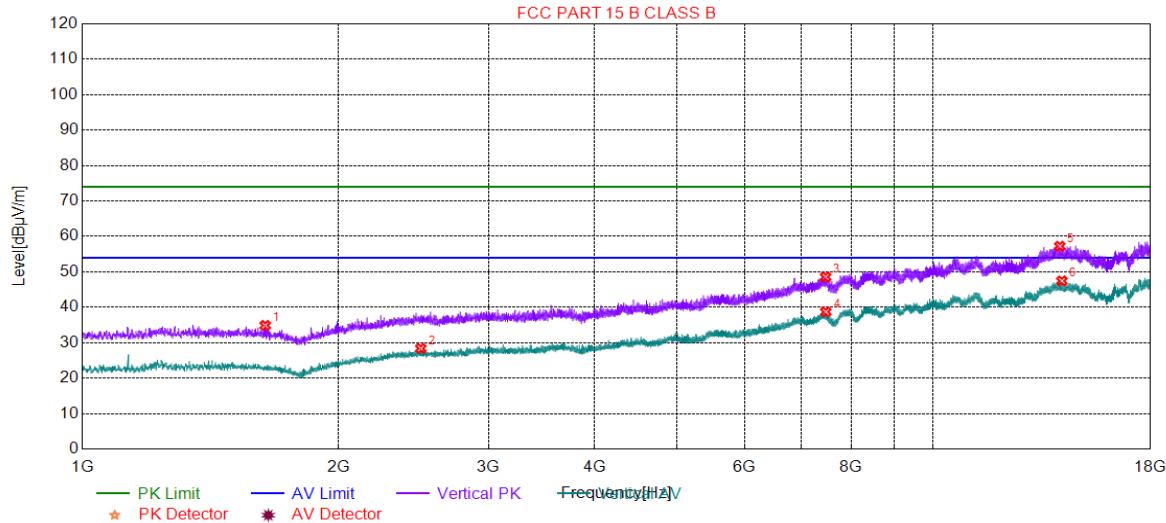
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Mode:j; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1640.0820	34.88	-30.56	74.00	39.12	100	81	Vertical
2	2498.6249	28.38	-25.86	54.00	25.62	100	183	Vertical
3	7469.6735	48.57	-9.81	74.00	25.43	100	342	Vertical
4	7474.7737	38.70	-9.79	54.00	15.30	100	31	Vertical
5	14077.0539	57.22	2.33	74.00	16.78	100	233	Vertical
6	14156.1078	47.44	2.20	54.00	6.56	100	31	Vertical

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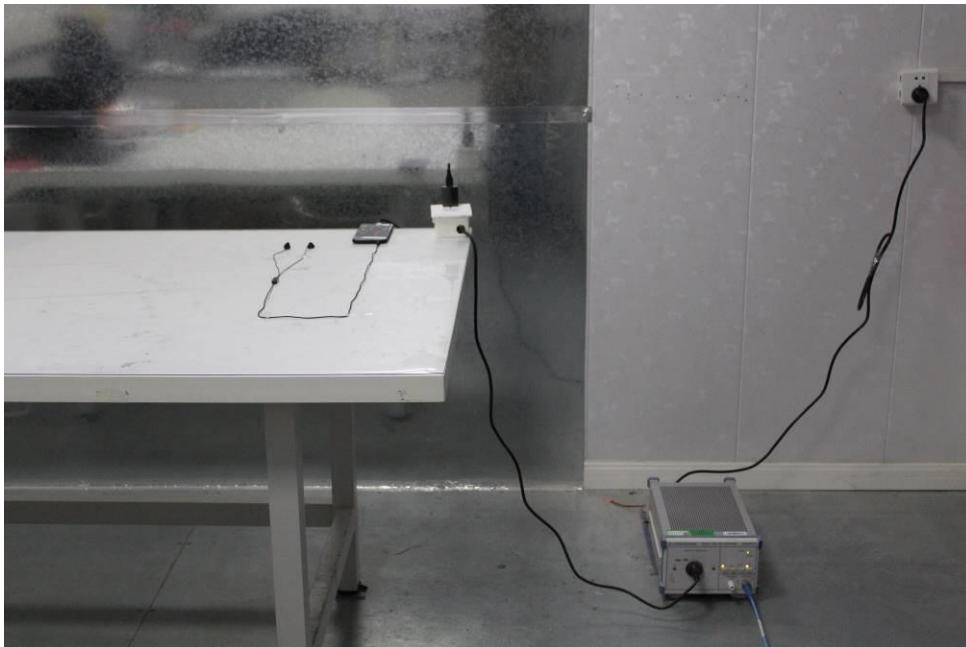
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7 Photographs

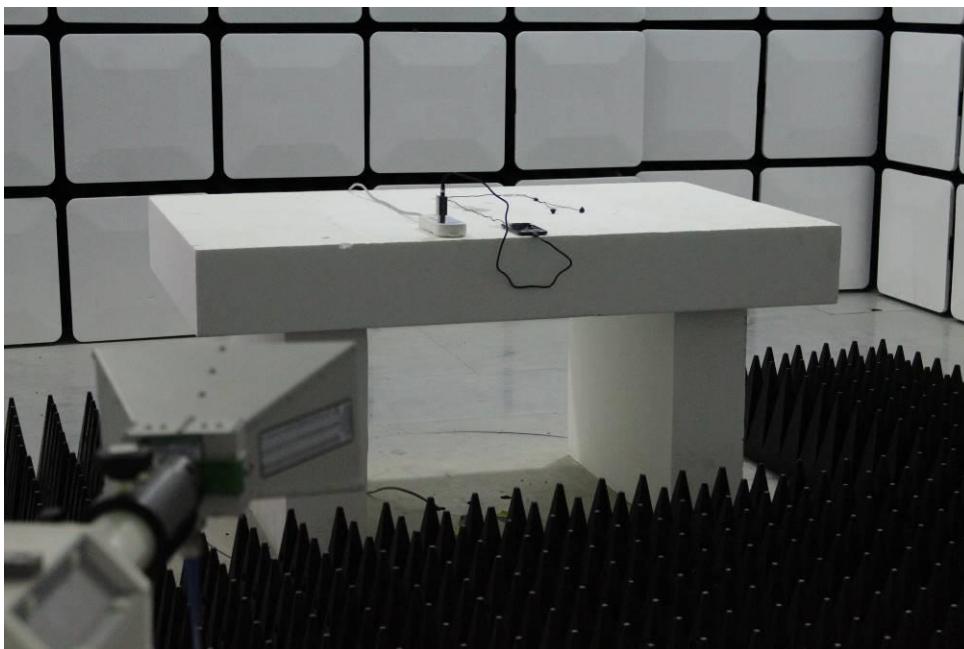
7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



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



7.3 EUT Constructional Details (EUT Photos)

Please refer to internal and external photos.

- End of the Report -



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