

TEST REPORT

Application No: ZR/2021/30022
Applicant: HMD Global Oy
Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer: HMD Global Oy
Address of Manufacturer: Bertel Jungin aukio 9, 02600 Espoo, Finland
EUT Description: Smart Phone
Model No.: TA-1371
Trade Mark: NOKIA
FCC ID: 2AJOTTA-1371
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/4/2
Date of Test: 2021/4/2 to 2021/7/6
Date of Issue: 2021/7/9

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		2021/7/9		Original

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):	TA-1371		
Trade Mark:	NOKIA		
Hardware Version:	V1.00		
Software Version:	00WW_1_01A		
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 14	788~798	746~756
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 30	2305~2315	2350~2360
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 48	3550~3700	3550~3700
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	NR Band N2	1850~1910	1930~1990
	NR Band N5	824~849	869~894
	NR Band N25	1850~1915	1930~1995
	NR Band N38	2570~2620	2570~2620
	NR Band N41	2496~2690	2496~2690
	NR Band N66	1710~1780	2110~2200
	NR Band N71	663~698	617~652
	NR Band N77	3300~4200	3300~4200
NR Band N78	3700~3800	3700~3800	
Wi-Fi 2.4G	2412~2462	2412~2462	
Bluetooth	2402~2480	2402~2480	
Wi-Fi 5G	5150~5850	5150~5850	
FM	87.5~108		
GNSS(GPS+Glonass + Beidou+Galileo)	1599~1610 1161~1192		



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Accessory:

Adapter No.	Model No.	Specification
1	AD-18WE	Salcomp (Shenzhen) Co., Ltd.
2	SACAD18TVL	Salcomp (Shenzhen) Co., Ltd.
3	1-CHEUQ302-095	HUIZHOU PUAN ELECTRONICS CO., LTD
4	1-CHUSQ302-097	HUIZHOU PUAN ELECTRONICS CO., LTD
5	1-CHUKQ302-096	HUIZHOU PUAN ELECTRONICS CO., LTD
6	1-CHAUQ302-099	HUIZHOU PUAN ELECTRONICS CO., LTD

Battery No.	Model No.	Manufacturer
1	LPN387450	Ningbo Veken Battery Co., Ltd

Cable No.	Model No.	Manufacturer
1	SBT1-3022L10BKR	Saibao(Jiangxi)Communication Industrial Co.,Ltd;

Earphone No.	Model No.	Manufacturer
1	NLD-EM301K-17SF	HUIZHOU NEW LEADER INDUSTRY CO.,LTD



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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
wireless charger	OPPO	OAWV0101	XAW01-55-01

1.2 Test Location

All tests were performed at:

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:	Leah Chen, Ken Liu, Andy Yao

No tests were sub-contracted.

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: GSM 850 Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card)
+earphone1+battery1+Cable(worst)+adapter1
 - c: WCDMA Band V Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card)
+earphone(worst)+battery(worst)+Cable(worst)+adapter2
 - d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter2
 - e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
 - f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
 - g: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter6+ wireless charging
 - h: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

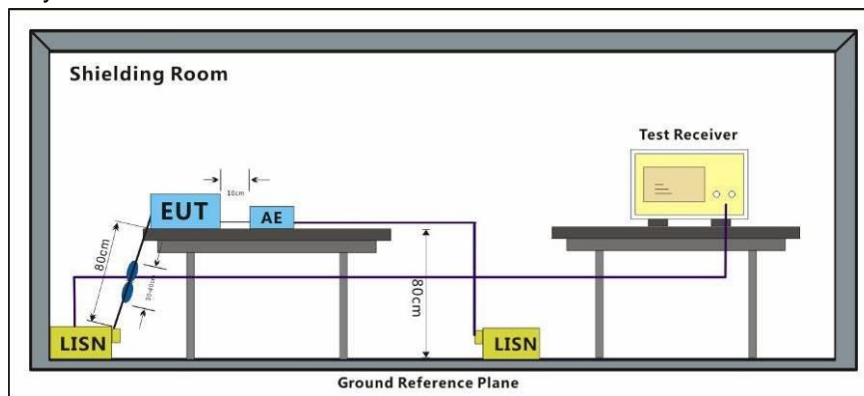
- d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter2
- a: Transfer data between the EUT and the PC+USB cable1



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2.1.2 Test Setup Procedures

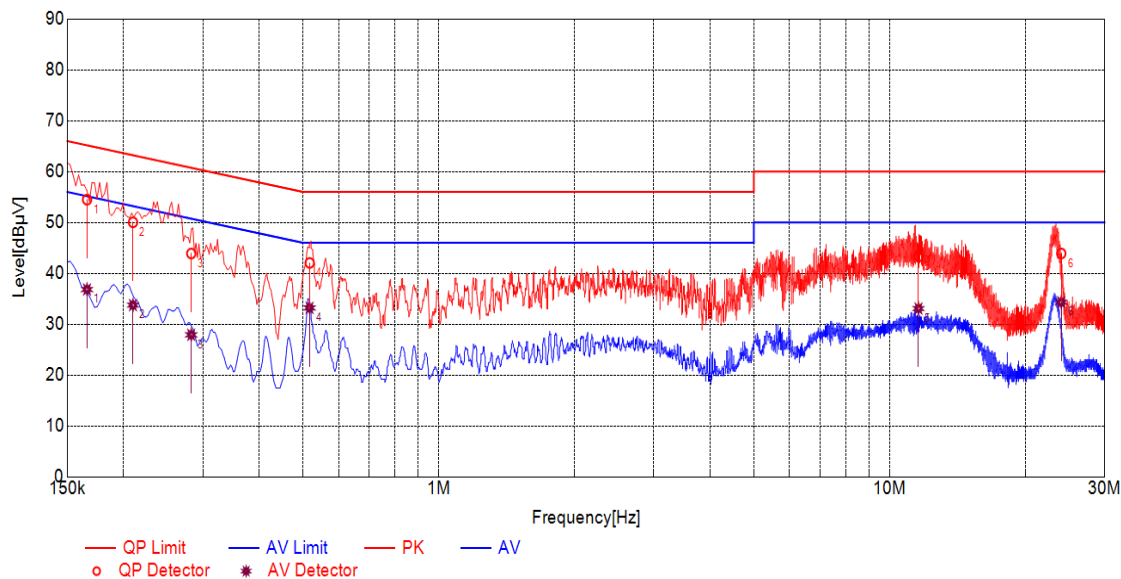
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



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:d; Line:Live Line



Test Graph

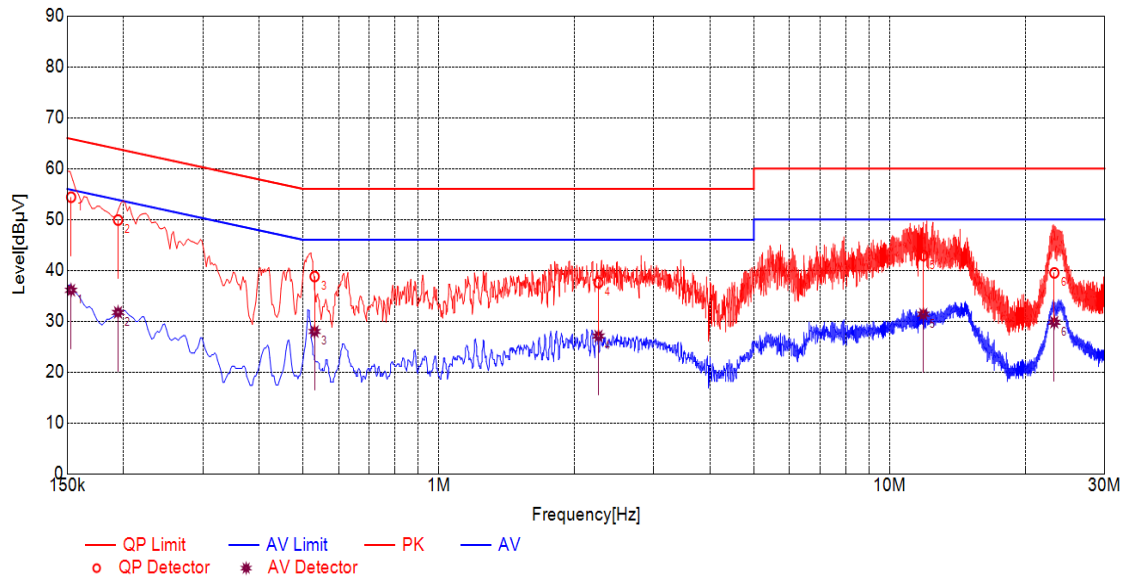
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1660	10.10	54.48	65.16	10.68	36.82	55.16	18.34
2	0.2099	10.10	50.02	63.21	13.19	33.75	53.21	19.46
3	0.2826	10.10	43.89	60.74	16.85	27.91	50.74	22.83
4	0.5173	10.10	42.04	56.00	13.96	33.20	46.00	12.80
5	11.5903	10.10	43.29	60.00	16.71	33.08	50.00	16.92
6	24.0248	10.11	43.91	60.00	16.09	34.32	50.00	15.68



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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

Mode:d; Line:Neutral Line



Test Graph

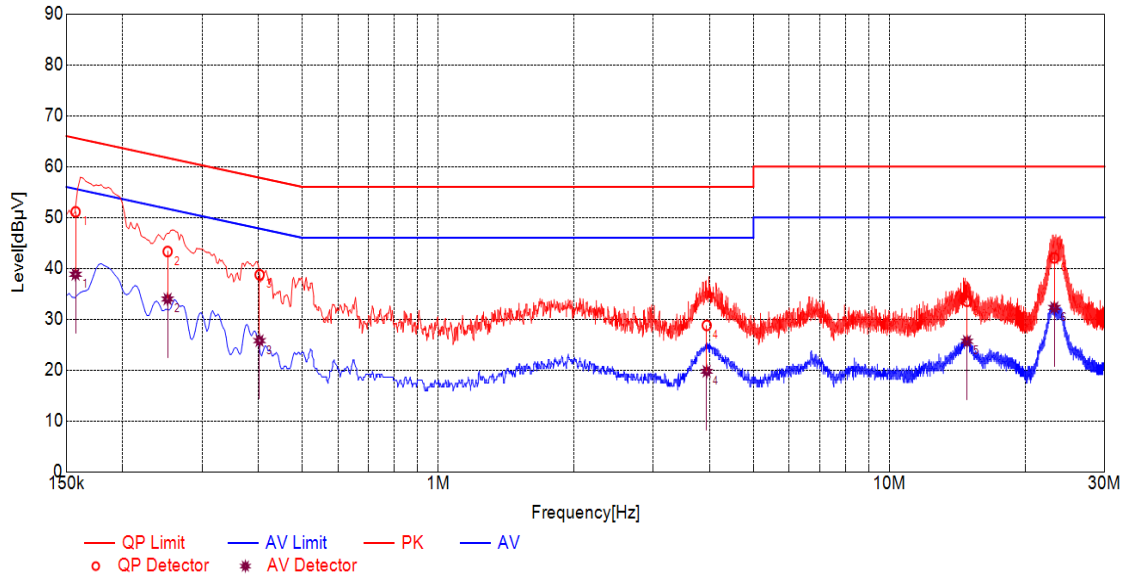
单位

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]
1	0.1530	10.10	54.37	65.83	11.46	36.09	55.83	19.74
2	0.1945	10.10	49.88	63.84	13.96	31.72	53.84	22.12
3	0.5306	10.10	38.78	56.00	17.22	27.98	46.00	18.02
4	2.2614	10.10	37.61	56.00	18.39	27.08	46.00	18.92
5	11.8792	10.10	42.92	60.00	17.08	31.38	50.00	18.62
6	23.1883	10.11	39.50	60.00	20.50	29.79	50.00	20.21



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Mode:a; Line:Live Line



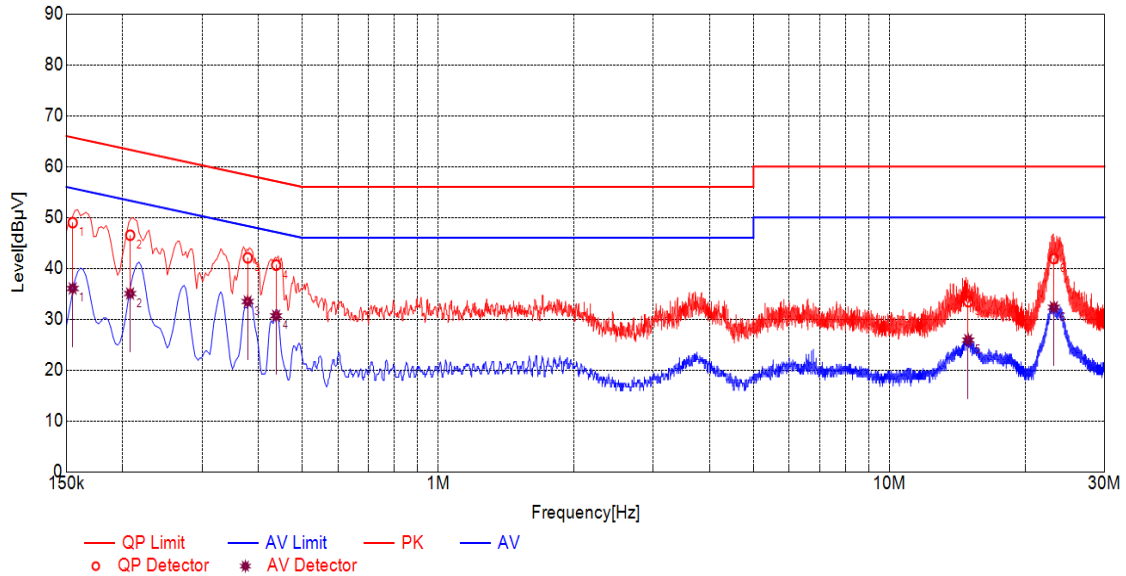
Test Graph

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]
1	0.1573	10.10	51.11	65.61	14.50	38.82	55.61	16.79
2	0.2516	10.10	43.31	61.71	18.40	33.96	51.71	17.75
3	0.4022	10.10	38.73	57.81	19.08	25.78	47.81	22.03
4	3.9376	10.10	28.79	56.00	27.21	19.76	46.00	26.24
5	14.8608	10.11	33.52	60.00	26.48	25.67	50.00	24.33
6	23.2067	10.11	42.05	60.00	17.95	32.28	50.00	17.72



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Mode:a; 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]
1	0.1550	10.10	48.98	65.73	16.75	36.04	55.73	19.69
2	0.2078	10.10	46.51	63.29	16.78	35.04	53.29	18.25
3	0.3785	10.10	42.06	58.31	16.25	33.47	48.31	14.84
4	0.4377	10.10	40.63	57.11	16.48	30.67	47.11	16.44
5	14.9523	10.11	33.44	60.00	26.56	25.90	50.00	24.10
6	23.1490	10.11	41.91	60.00	18.09	32.34	50.00	17.66



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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(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

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 cable 1
- b: GSM 850 Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card) +earphone1+battery1+Cable(worst)+adapter1
- c: WCDMA Band V Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card) +earphone(worst)+battery(worst)+Cable(worst)+adapter2
- d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone(worst)+battery(worst)+ Cable(worst)+adapter2
- e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- g: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter6+ wireless charging
- h: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

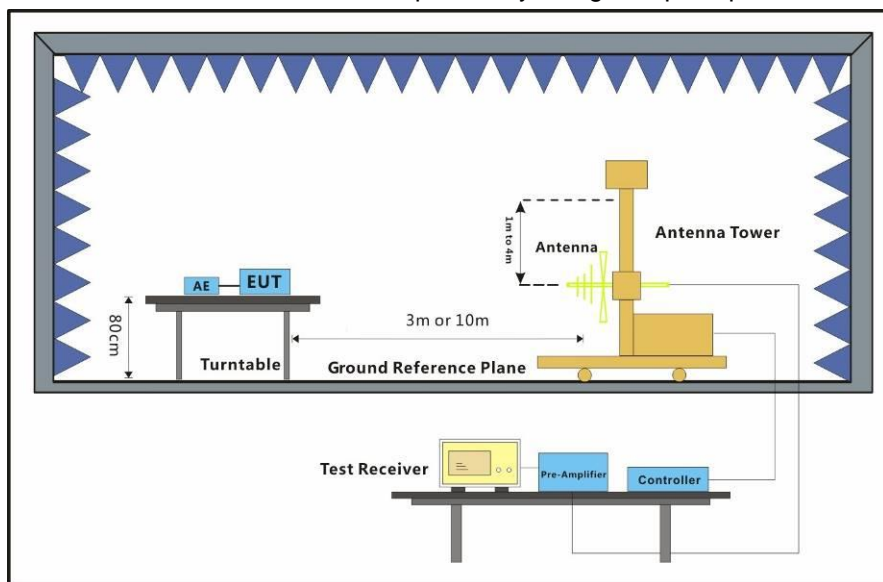
- e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- a: Transfer data between the EUT and the PC+USB cable 1



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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

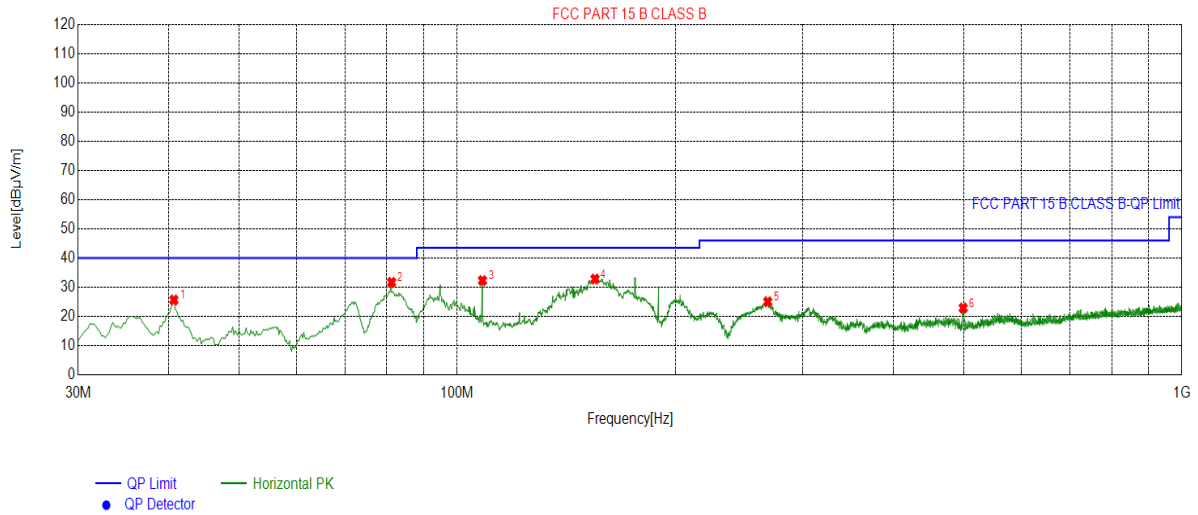
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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Mode:e; Polarization:Horizontal



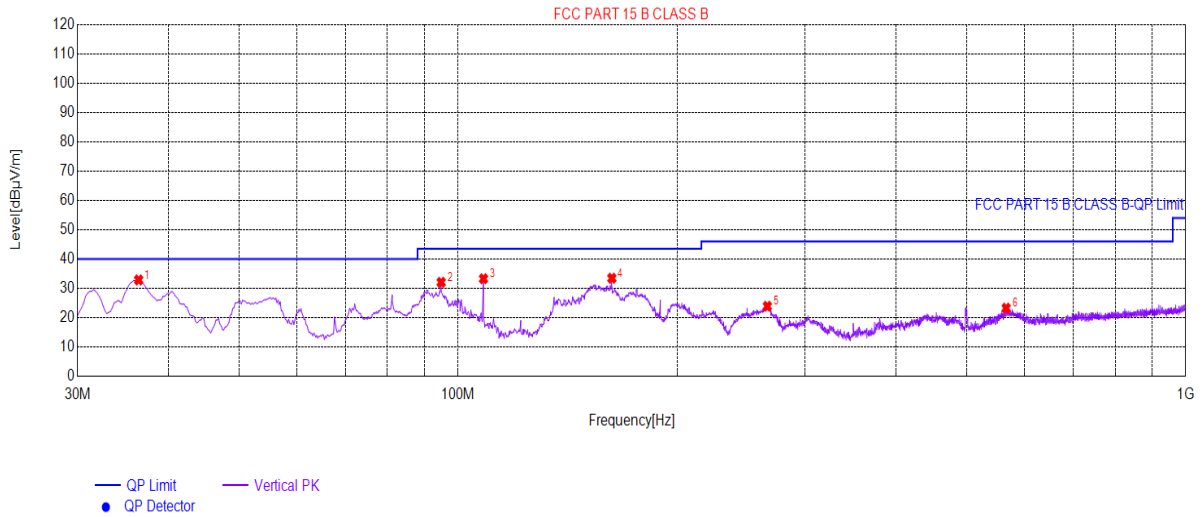
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6721	25.64	-22.22	40.00	14.36	223	222	Horizontal
2	81.2262	31.68	-26.96	40.00	8.32	214	238	Horizontal
3	108.391	32.29	-22.93	43.50	11.21	206	219	Horizontal
4	154.961	32.79	-25.69	43.50	10.71	232	229	Horizontal
5	268.279	25.02	-20.17	46.00	20.98	213	56	Horizontal
6	499.185	22.88	-14.57	46.00	23.12	206	50	Horizontal



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Mode:e; Polarization:Vertical



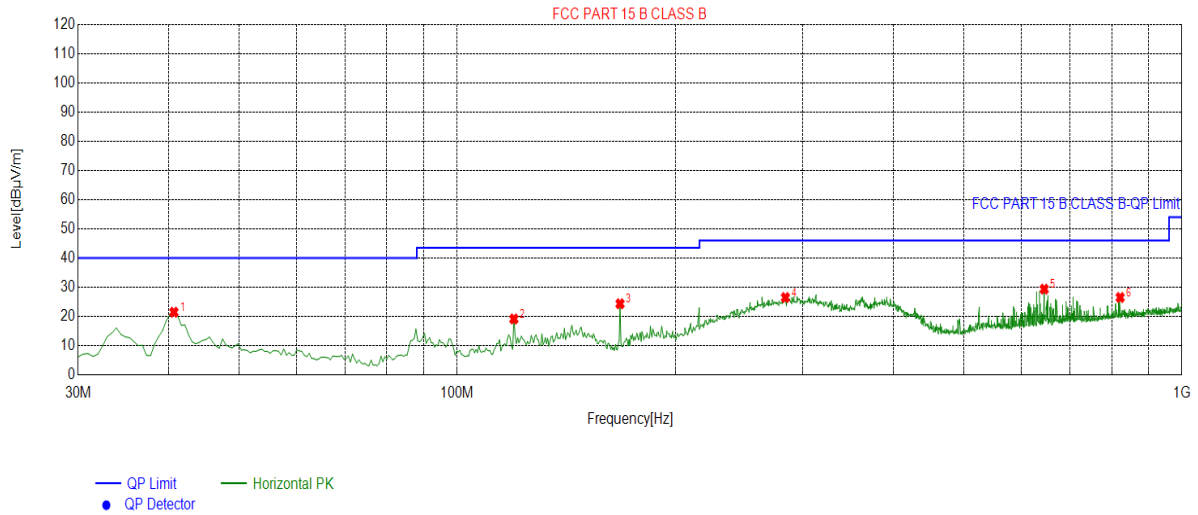
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.4033	32.86	-23.50	40.00	7.14	189	335	Vertical
2	94.8090	32.05	-23.73	43.50	11.45	178	135	Vertical
3	108.391	33.28	-22.93	43.50	10.22	165	93	Vertical
4	162.722	33.45	-25.44	43.50	10.05	196	2	Vertical
5	266.145	23.90	-20.23	46.00	22.10	166	29	Vertical
6	566.711	23.23	-12.80	46.00	22.77	176	356	Vertical



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Mode:a; Polarization:Horizontal



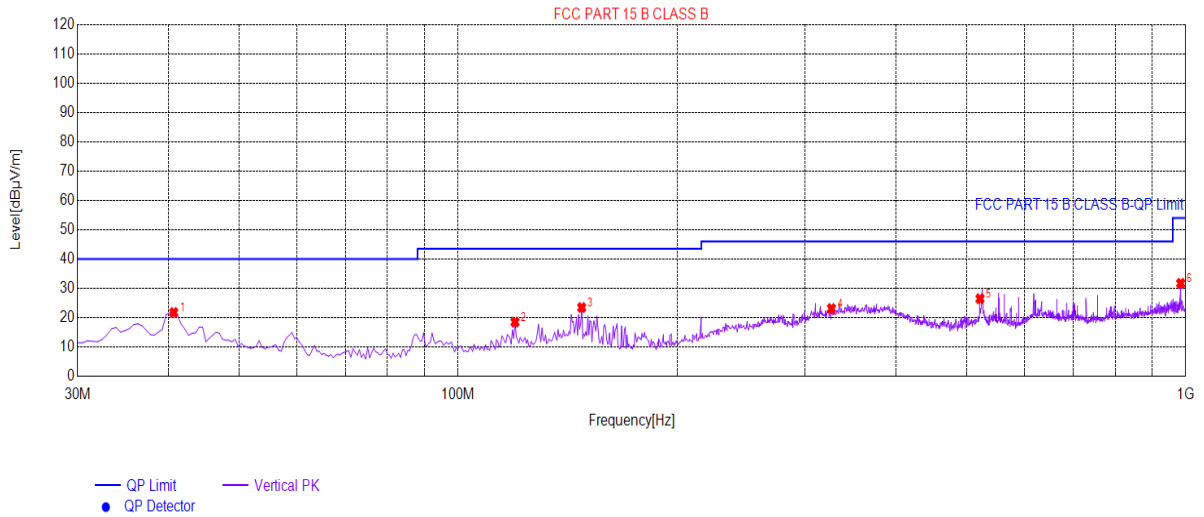
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6753	21.45	-22.22	40.00	18.55	208	182	Horizontal
2	119.769	19.14	-24.63	43.50	24.36	221	16	Horizontal
3	167.808	24.33	-25.25	43.50	19.17	213	27	Horizontal
4	283.781	26.46	-19.67	46.00	19.54	198	53	Horizontal
5	645.772	29.35	-11.30	46.00	16.65	175	79	Horizontal
6	821.916	26.48	-8.75	46.00	19.52	179	356	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	40.6753	21.75	-22.22	40.00	18.25	208	86	Vertical
2	119.769	18.49	-24.63	43.50	25.01	189	338	Vertical
3	147.914	23.44	-25.84	43.50	20.06	174	360	Vertical
4	325.998	23.11	-18.46	46.00	22.89	186	352	Vertical
5	521.550	26.46	-13.74	46.00	19.54	198	352	Vertical
6	984.472	31.70	-6.83	54.00	22.30	175	342	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: GSM 850 Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card)
+earphone1+battery1+Cable(worst)+adapter1
- c: WCDMA Band V Idle+BT+WLAN +GPS Rx+FM+playing MP4 (SD card)
+earphone(worst)+battery(worst)+Cable(worst)+adapter2
- d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter2
- e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
- f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- g: LTE Band 14 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter6+ wireless charging
- h: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

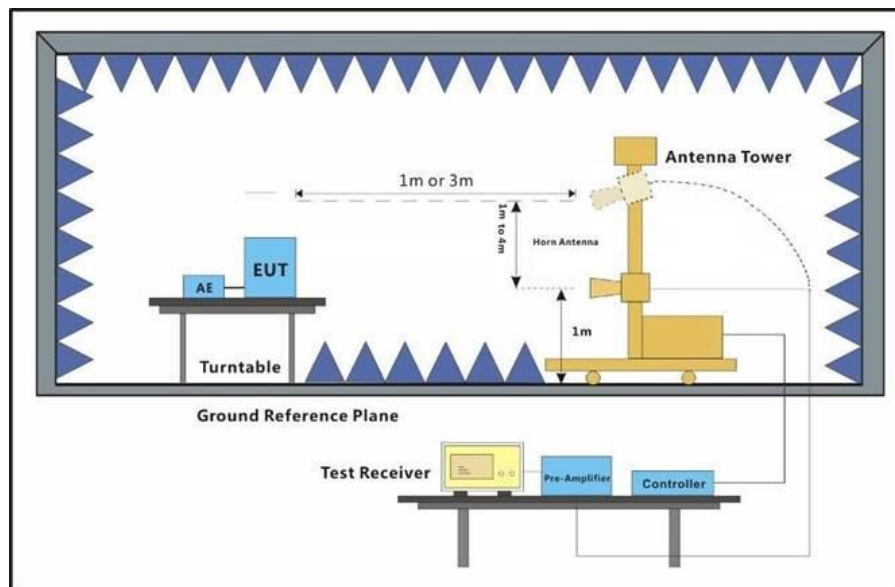
- f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
- a: Transfer data between the EUT and the PC+USB cable1



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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



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.

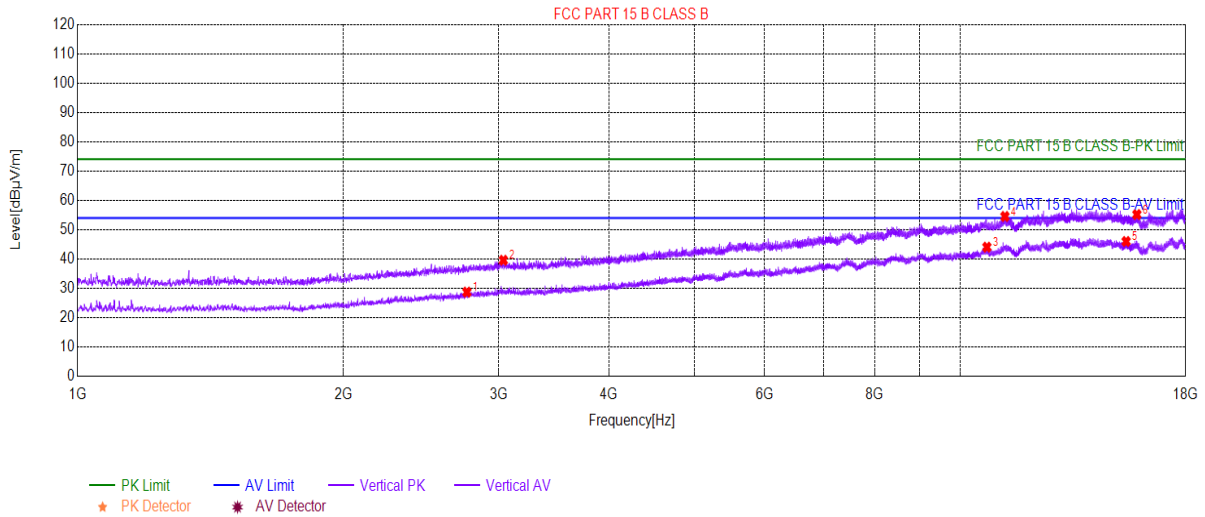
The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

Scan from 1GHz to 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.



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Mode:f; Polarization:Horizontal



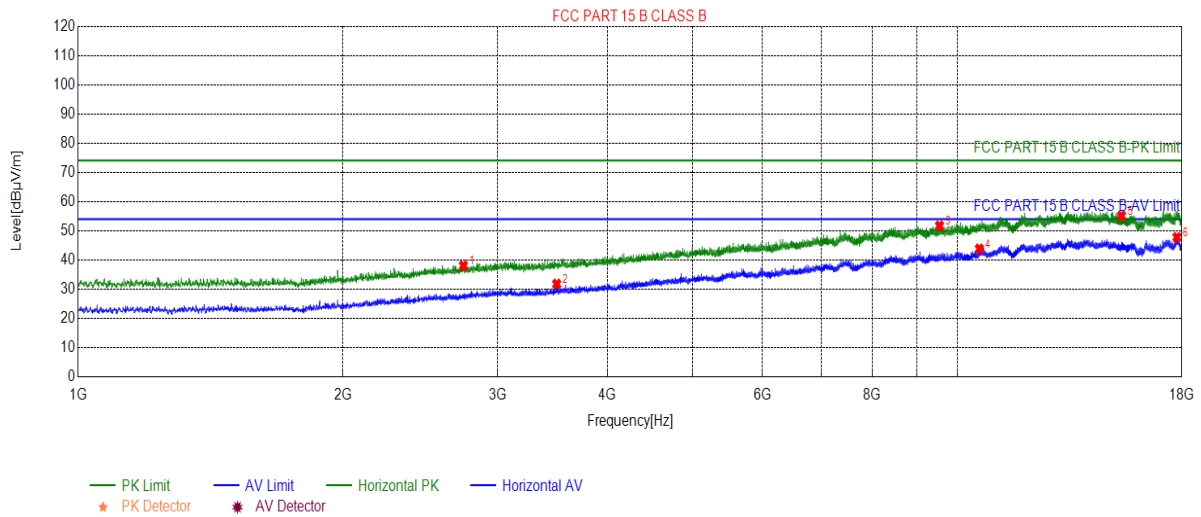
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2761.28	28.72	-23.37	54.00	25.28	188	359	Vertical
2	3036.70	39.57	-22.00	74.00	34.43	204	261	Vertical
3	10718.5	44.04	-2.32	54.00	9.96	178	136	Vertical
4	11235.3	54.50	-1.42	74.00	19.50	196	359	Vertical
5	15411.6	45.98	1.71	54.00	8.02	167	326	Vertical
6	15850.2	55.16	0.70	74.00	18.84	154	2	Vertical



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Mode:f; Polarization:Vertical



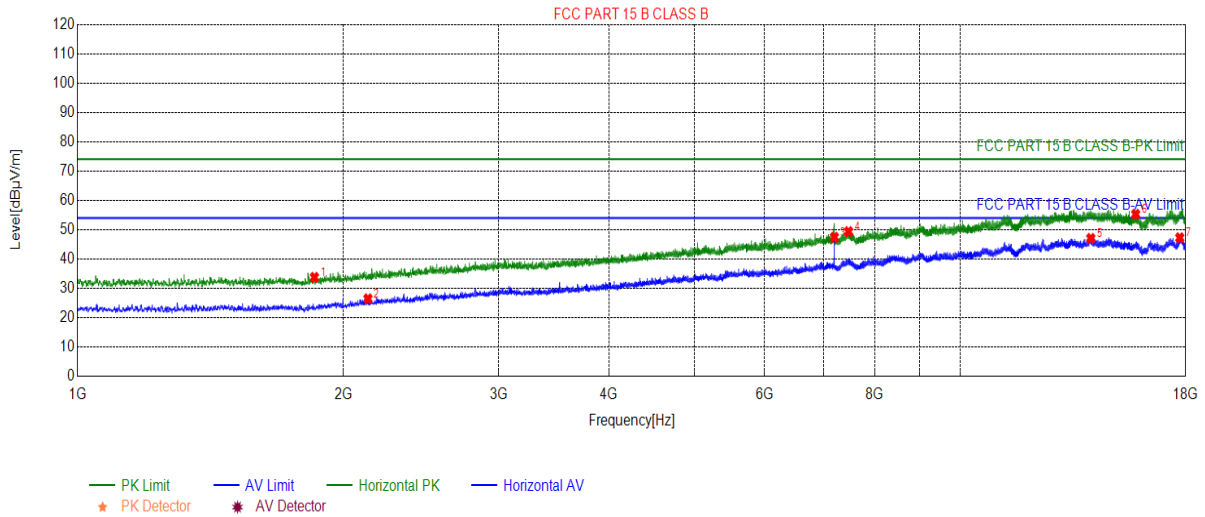
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2742.58	38.03	-23.60	74.00	35.97	214	299	Horizontal
2	3501.67	31.77	-21.06	54.00	22.23	225	229	Horizontal
3	9542.07	51.69	-4.10	74.00	22.31	236	270	Horizontal
4	10592.7	43.82	-2.24	54.00	10.18	187	38	Horizontal
5	15369.9	55.09	1.64	74.00	18.91	196	334	Horizontal
6	17767.9	47.75	-0.67	54.00	6.25	206	126	Horizontal



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Mode:a; Polarization:Horizontal



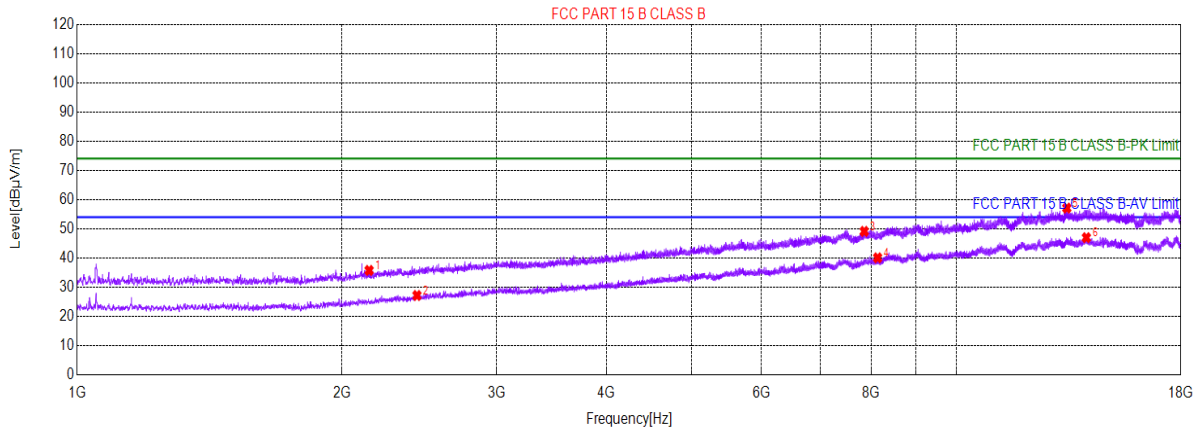
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1855.14	33.74	-28.36	74.00	40.26	208	172	Horizontal
2	2133.10	26.43	-26.68	54.00	27.57	165	61	Horizontal
3	7200.21	47.42	-8.47	54.00	6.58	169	313	Horizontal
4	7472.22	49.34	-8.16	74.00	24.66	187	236	Horizontal
5	14055.8	47.02	2.40	54.00	6.98	177	2	Horizontal
6	15800.9	55.25	0.87	74.00	18.75	154	262	Horizontal
7	17726.2	47.24	-0.43	54.00	6.76	185	327	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	2148.40	35.75	-26.71	74.00	38.25	187	113	Vertical
2	2434.87	27.17	-25.23	54.00	26.83	223	325	Vertical
3	7855.59	49.11	-7.27	74.00	24.89	198	139	Vertical
4	8135.25	40.07	-6.82	54.00	13.93	206	246	Vertical
5	13352.8	57.09	1.78	74.00	16.91	175	296	Vertical
6	14053.2	46.96	2.42	54.00	7.04	236	60	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
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
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	2021-04-01	2022-03-31
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
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	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
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	± 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)



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5 Photographs

5.1 Test Setup

Refer to Appendix A Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

