

Report No.: XZR/2021/3003301

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TEST REPORT

Application No: ZR/2021/30033 **Applicant:** HMD Global Oy

Address of Applicant Bertel Jungin aukio 9, Espoo 02600, Finland

Manufacturer: HMD Global Oy

Address of Manufacturer: Bertel Jungin aukio 9, Espoo 02600, Finland

EUT Description: Smart Phone Model No.: TA-1391
Trade Mark: Nokia

FCC ID: 2AJOTTA-1391

Standard(s): 47 CFR Part 15, Subpart B

Date of Receipt: 2021/4/1

Date of Test: 2021/4/2 to 2021/4/15

Date of Issue: 2021/4/21

Test Result: Pass*

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2021/4/21		Original

Authorized for issue by:	
Prepared By	(Leah Chen) / Engineer
Checked By	Daniel Wang (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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GENERAL INFORMATION

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.

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1 General Information

Product Name:	Smart Phone		
Model No.(EUT):	TA-1391		
Trade Mark:	Nokia		
Hardware Version:	19545_1_10		
Software Version:	V0.100_A01(SW_T19545	AA1_V010_M10_NF_NOKIA_Iris_	USR_TEST)
	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
Frequency Bands:	LTE Band 4	1710~1755	2110~2155
Trequency Bands.	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	FM	FM 87~108	
	NFC	13.56	
	GNSS(GPS+Glonass + Beidou)	1599~1610	



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Accessory:

Adapter no.	Model no.	Manufacturer
1	CH-35E	Shenzhen Tianyin Electronics Co.
2	CH-35E	Yutong Electronics (Huizhou) Co., Ltd
3	CH-51B	Shenzhen Tianyin Electronics Co.
4	CH-35X	Shenzhen Tianyin Electronics Co.
5	CH-35A	Shenzhen Tianyin Electronics Co.
6	CH-35U	Shenzhen Tianyin Electronics Co.

Earphone no.	Model no.	Manufacturer
1	CHS-34	Huizhou New Leader Industry Co., Ltd

USB cable no.	Model no.	Manufacturer
1	CB-35A	Shenzhen BRL Technology Co., Ltd
2	CB-35A	Leagtech Electronics Co., Ltd

Battery	Model no.	Manufacturer
1	WT140	Guangdong Fenghua New Energy Co., Ltd.
2	WT140	Hunan ADF Alternative Energy Technology Co., LTD



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA1800
Mouse	Lenovo	3D optical Mouse	REF. No.:SEA2400
Router	NETGEAR	R6020	REF. No.SEA2200

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	

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.

Test Site No.:	SG	S Xian Site No.	FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 **Emission Test Results**

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

47 CFR Part 15, Subpart B Test Requirement:

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 55.1 % RH Atmospheric Pressure: 1000 mbar Humidity:

a: Transfer data between the EUT and the PC+USB cable1 Pretest these modes to find b: Transfer data between the EUT and the PC+USB cable2 the worst case:

c: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery1+Cable(worst)+adapter1

d: WCDMA Band V Idle+BT+WLAN +GPS Rx+ camera (Front)

+earphone(worst)+battery2+ Cable(worst)+adapter2 e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test:

a: Transfer data between the EUT and the PC+USB cable1 e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Back) +earphone(worst)+battery(worst)+ Cable(worst)+adapter3



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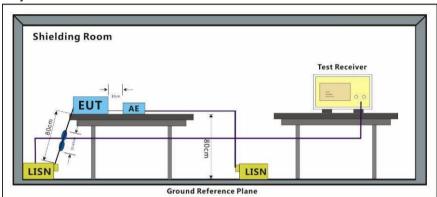


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2.1.2 Test Setup Procedures

- 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.



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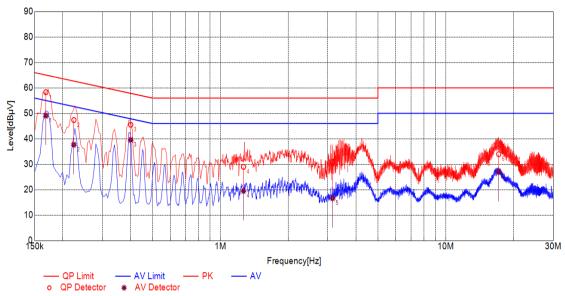
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Mode:a; Line:Live Line



Test Graph

Final	Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]				
1	0.1684	10.10	58.31	65.04	6.73	49.08	55.04	5.96				
2	0.2240	10.10	47.36	62.67	15.31	37.66	52.67	15.01				
3	0.4004	10.10	45.53	57.85	12.32	39.56	47.85	8.29				
4	1.2670	10.10	28.98	56.00	27.02	19.53	46.00	26.47				
5	3.1473	10.10	30.89	56.00	25.11	16.64	46.00	29.36				
6	17.1643	10.11	33.94	60.00	26.06	26.95	50.00	23.05				



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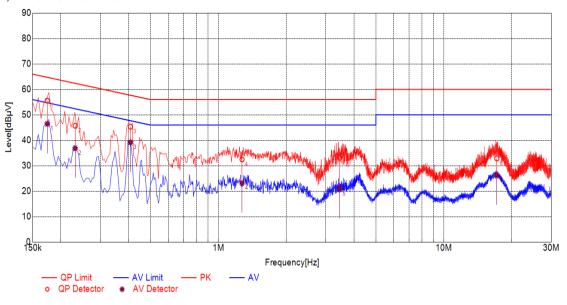
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Test Graph

Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	AV Value [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]			
1	0.1742	10.10	55.57	64.76	9.19	46.46	54.76	8.30			
2	0.2317	10.10	45.74	62.39	16.65	36.86	52.39	15.53			
3	0.4075	10.10	45.33	57.70	12.37	39.18	47.70	8.52			
4	1.2739	10.10	32.49	56.00	23.51	23.18	46.00	22.82			
5	3.4531	10.10	33.19	56.00	22.81	20.93	46.00	25.07			
6	17.1848	10.11	32.85	60.00	27.15	26.27	50.00	23.73			



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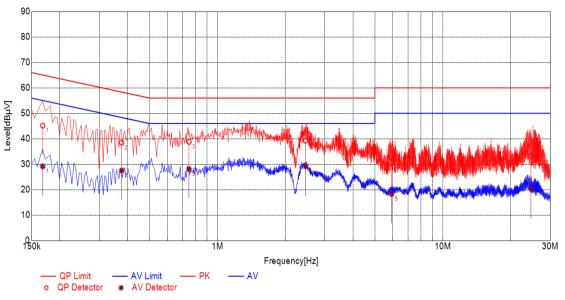
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Test Graph

Final	Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]				
1	0.1681	10.10	45.18	65.05	19.87	29.14	55.05	25.91				
2	0.3764	10.10	38.48	58.36	19.88	27.53	48.36	20.83				
3	0.7493	10.10	38.80	56.00	17.20	28.08	46.00	17.92				
4	2.4647	10.10	39.19	56.00	16.81	29.15	46.00	16.85				
5	5.9337	10.10	32.40	60.00	27.60	18.31	50.00	31.69				
6	24.6599	10.11	33.27	60.00	26.73	20.24	50.00	29.76				



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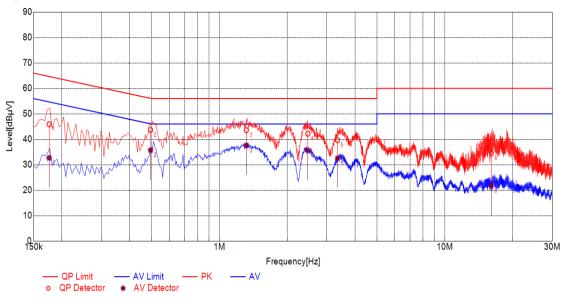
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Test Graph

Final	Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	AV Value [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]				
1	0.1757	10.10	45.91	64.69	18.78	32.69	54.69	22.00				
2	0.4953	10.10	43.69	56.08	12.39	35.72	46.08	10.36				
3	1.3166	10.10	43.59	56.00	12.41	37.52	46.00	8.48				
4	2.4680	10.10	42.18	56.00	13.82	35.56	46.00	10.44				
5	3.3452	10.10	39.66	56.00	16.34	32.52	46.00	13.48				
6	16.0645	10.11	34.53	60.00	25.47	21.73	50.00	28.27				



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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:

30 MHz - 88 MHz $40.0 (dB\mu\text{V/m})$ quasi-peak 88 MHz - 216 MHz $43.5 (dB\mu\text{V/m})$ quasi-peak $46.0 (dB\mu\text{V/m})$ quasi-peak 960 MHz - 1000 MHz $54.0 (dB\mu\text{V/m})$ 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 cable1
b: Transfer data between the EUT and the PC+USB cable2
c: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery1+Cable(worst)+adapter1

d: WCDMA Band V Idle+BT+WLAN +GPS Rx+ camera (Front)

+earphone(worst)+battery2+ Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test:

a: Transfer data between the EUT and the PC+USB cable1 d: WCDMA Band V Idle+BT+WLAN +GPS Rx+ camera (Front)

+earphone(worst)+battery2+ Cable(worst)+adapter2



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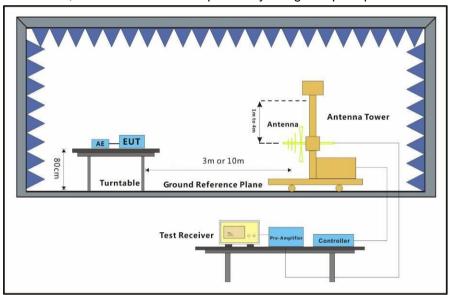


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2.2.2 Test Setup Procedures

- 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 guasi-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. Quasipeak 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.



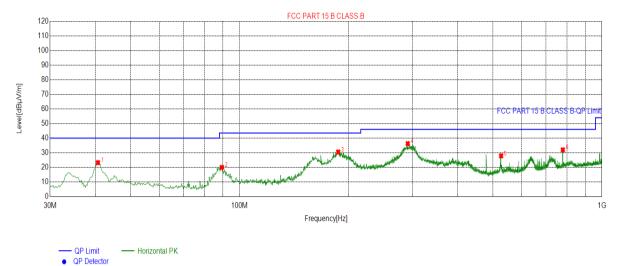
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Mode:a; Polarization:Horizontal



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	40.6721	23.23	-22.22	40.00	16.77	177	161	Horizontal				
2	89.3759	20.02	-24.67	43.50	23.48	158	346	Horizontal				
3	187.171	30.53	-23.83	43.50	12.97	196	1	Horizontal				
4	291.176	36.23	-19.47	46.00	9.77	187	21	Horizontal				
5	526.933	27.87	-13.60	46.00	18.13	165	71	Horizontal				
6	779.960	32.02	-9.42	46.00	13.98	177	241	Horizontal				



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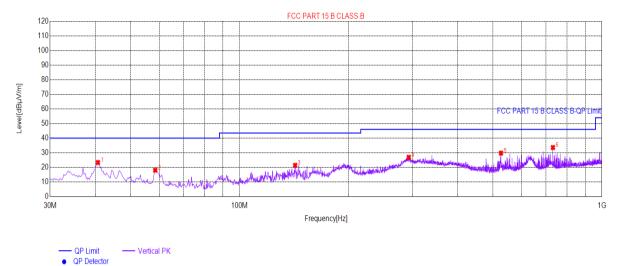
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Mode:a; Polarization:Vertical



Suspected List

Susp	Suspected List											
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dalavitu				
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	40.6721	23.31	-22.22	40.00	16.69	213	300	Vertical				
2	58.5237	18.06	-22.63	40.00	21.94	198	169	Vertical				
3	142.348	21.40	-25.86	43.50	22.10	174	14	Vertical				
4	293.116	26.87	-19.46	46.00	19.13	156	13	Vertical				
5	526.545	29.76	-13.61	46.00	16.24	168	344	Vertical				
6	732.420	33.59	-10.22	46.00	12.41	198	175	Vertical				



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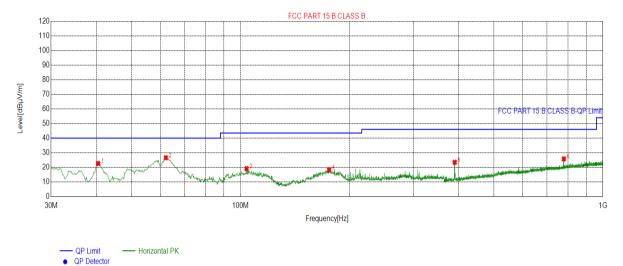
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Mode:d; Polarization:Horizontal



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	40.4781	22.65	-22.26	40.00	17.35	158	43	Horizontal				
2	62.2104	26.54	-23.32	40.00	13.46	214	350	Horizontal				
3	103.928	19.10	-22.92	43.50	24.40	233	101	Horizontal				
4	175.529	18.30	-24.79	43.50	25.20	211	211	Horizontal				
5	389.942	23.47	-16.62	46.00	22.53	208	23	Horizontal				
6	779.960	25.81	-9.42	46.00	20.19	189	74	Horizontal				



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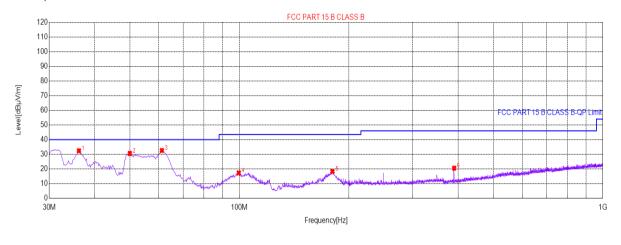
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Mode:d; Polarization:Vertical



- OP Limit QP Detector

Vertical PK

Suspected List

- a p	dapeoted List											
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	36.2092	32.40	-23.56	40.00	7.60	158	227	Vertical				
2	49.9860	30.65	-21.36	40.00	9.35	178	169	Vertical				
3	61.2402	32.60	-23.12	40.00	7.40	189	301	Vertical				
4	99.6599	17.35	-22.95	43.50	26.15	198	60	Vertical				
5	180.380	18.35	-24.45	43.50	25.15	174	7	Vertical				
6	389.942	20.56	-16.62	46.00	25.44	165	96	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 +GPS Rx+playing MP4 (SD card)

+earphone1+battery1+Cable(worst)+adapter1

d: WCDMA Band V Idle+BT+WLAN +GPS Rx+ camera (Front)

+earphone(worst)+battery2+ Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Back)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3

The worst case for final test:

a: Transfer data between the EUT and the PC+USB cable1 d: WCDMA Band V Idle+BT+WLAN +GPS Rx+ camera (Front)

+earphone(worst)+battery2+ Cable(worst)+adapter2



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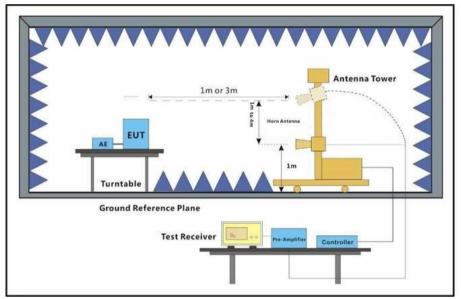


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2.3.2 Test Setup Procedures

- 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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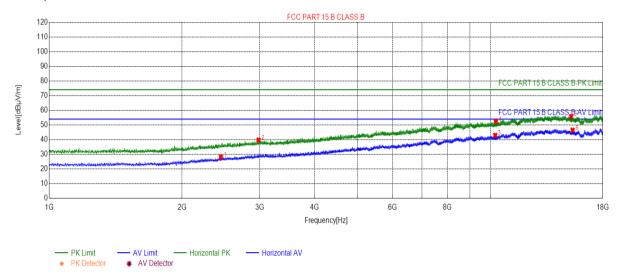
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Mode:a; Polarization:Horizontal



Suspected List

Suspec	uspected List											
Suspected List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2451.02	28.16	-25.02	54.00	25.84	156	97	Horizontal				
2	2982.29	39.73	-22.53	74.00	34.27	189	264	Horizontal				
3	10261.2	42.96	-2.75	54.00	11.04	198	337	Horizontal				
4	10295.2	52.30	-3.14	74.00	21.70	175	1	Horizontal				
5	15251.8	55.78	1.88	74.00	18.22	210	22	Horizontal				
6	15369.1	46.47	1.64	54.00	7.53	169	185	Horizontal				



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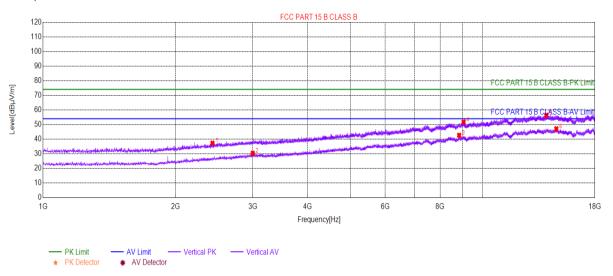
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Mode:a; Polarization:Vertical



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2428.92	37.26	-25.32	74.00	36.74	174	350	Vertical				
2	2998.44	30.35	-22.36	54.00	23.65	158	136	Vertical				
3	8839.94	42.65	-5.19	54.00	11.35	185	58	Vertical				
4	9047.35	51.76	-4.54	74.00	22.24	198	73	Vertical				
5	13950.3	56.35	3.38	74.00	17.65	210	149	Vertical				
6	14705.2	47.06	1.57	54.00	6.94	211	275	Vertical				



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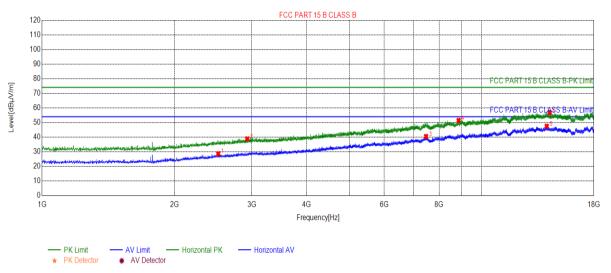
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Mode:d; Polarization:Horizontal



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2516.47	28.66	-24.81	54.00	25.34	187	358	Horizontal				
2	2927.89	38.83	-23.02	74.00	35.17	199	358	Horizontal				
3	7471.37	40.49	-8.16	54.00	13.51	156	107	Horizontal				
4	8863.74	51.47	-5.16	74.00	22.53	157	200	Horizontal				
5	14058.3	47.47	2.38	54.00	6.53	175	40	Horizontal				
6	14281.0	56.70	2.37	74.00	17.30	168	120	Horizontal				



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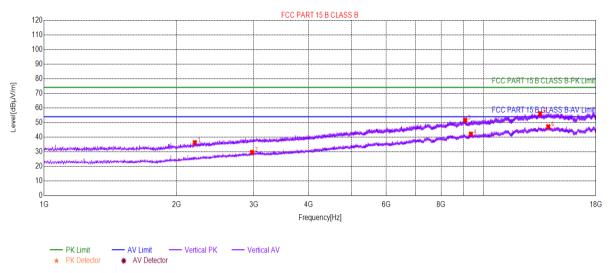
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Mode:d; Polarization:Vertical



Suspected List

The provided Lies								
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2202.81	36.24	-26.31	74.00	37.76	189	276	Vertical
2	2972.09	29.56	-22.63	54.00	24.44	177	238	Vertical
3	9077.10	51.63	-4.87	74.00	22.37	215	199	Vertical
4	9348.26	42.07	-3.99	54.00	11.93	198	276	Vertical
5	13439.5	56.02	2.19	74.00	17.98	203	262	Vertical
6	14022.6	47.09	2.16	54.00	6.91	214	359	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	
MVA signal analyzor	Kovoight	N9020A	XAW01-06-01	2020-04-02	2021-04-01	
MXA signal analyzer	Keysight			2021-04-01	2022-03-31	
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2020-04-15	2021-04-14	
Radio communication	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2021-04-01	2022-03-31	
analyzer				2020-04-02	2021-04-01	
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 -



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