

Report No.: ZR/2020/9003717-01

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TEST REPORT

Application No: ZR/2020/90037 **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: Mobile Phone Model No.: TA-1340
Trade Mark: NOKIA

FCC ID: 2AJOTTA-1340

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

Date of Receipt: 2020/9/21

Date of Test: 2020/9/21 to 2020/10/12

Date of Issue: 2021/8/15

Test Result: Pass*

Remark: TA-1333 support Double SIM, while TA-1340 can support Double SIM and Single SIM.

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		2020/10/20		Original					
02		2021/1/6	Daniel Wang	Revising text error					
03		2021/5/30	Leah Chen	Modify data conversion error of antenna height Update equipment list					
04		2021/8/15	Leah Chen	1.Update Support Units, Test facility and Test Location					

^{*}This report supersedes our previous report ZR/2020/9003717, issued on 2021/1/6, which is hereby deemed null and void.

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

Remark:

This test report (Report No.: ZR/2020/9003717-01) is base on the original test report (Report No.: ZR/2020/9003705-01).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

According to the declaration from the applicant, the models: TA-1333 and TA-1340 are identical in specifications, only different according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report all items do not need to retest and all test data in this report are base on the previous report with report number ZR/2020/9003705-01.



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CENEDAL INFORMATION

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

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1 General Information

Product Name:	Mobile Phone									
Model No.(EUT):	TA-1340									
Trade Mark:	NOKIA	NOKIA								
Hardware Version:	MB_V3									
Software Version:	00WW-A01									
	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							
Fraguency Panda:	LTE Band 4	1710~1755	2110~2155							
Frequency Bands:	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 17	704~716	734~746							
	LTE Band 66	1710~1780	2110~2200							
	Wi-Fi 2.4G	2412~2462	2412~2462							
	Bluetooth	2402~2480	2402~2480							



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Accessory:

Battery								
Battery1	Veken	HQ430	3.85V; 4000mAh					
Battery2	FENGHUA	HQ430	3.85V; 4000mAh					
	USB Cable							
USB Cable1 Liqi L55B-051000100 1.0m non-shielded cable without								
USB Cable2	Saibao	SHQ-A069A	1.0m non-shielded cable without core					
		Adapter						
Adapter1	TIANYIN	CH-21X	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA					
Adapter2	TIANYIN	CH-21E	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA					
Adapter3	TIANYIN	CH-21U	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA					
Adapter4	TIANYIN	CH-21A	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA					
Adapter5	TIANYIN	CH-21B	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA					
	earphone							
Earphone1	NEW Leader	NLD-EM300M-07SF	1.2 meter, non-shielded cable, with w/o ferrite core					

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1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R6020	No.XA1401
Computer	Computer Lenovo		No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

1.2 Test Location

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:	Ben Huang, Leah Chen

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 $66dB(\mu V)$ - $56dB(\mu V)$ quasi-peak, $56dB(\mu V)$ - $46dB(\mu V)$ average

0.5M-5MHz 56dB(μ V) quasi-peak, 46dB(μ V) average 5M-30MHz 60dB(μ V) quasi-peak, 50dB(μ V) 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: 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+playing MP4 (SD card)

+earphone(worst)+battery2+ Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
f: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter4
g: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
h: LTE Band 17 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

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



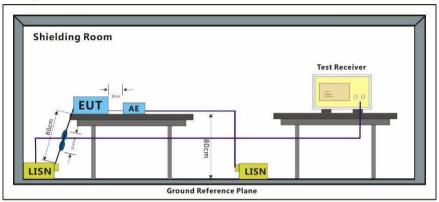
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2.1.2 Test Setup Diagram



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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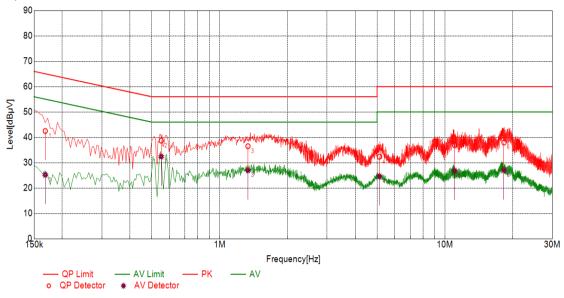
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Mode:e; Line:Live Line



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1682	10.10	42.50	65.05	22.55	25.21	55.05	29.84	L
2	0.5506	10.10	38.70	56.00	17.30	32.44	46.00	13.56	L
3	1.3353	10.10	36.52	56.00	19.48	27.01	46.00	18.99	L
4	5.1182	10.10	32.36	60.00	27.64	24.63	50.00	25.37	L
5	11.0449	10.10	36.85	60.00	23.15	26.82	50.00	23.18	L
6	18.2896	10.11	37.95	60.00	22.05	27.08	50.00	22.92	L



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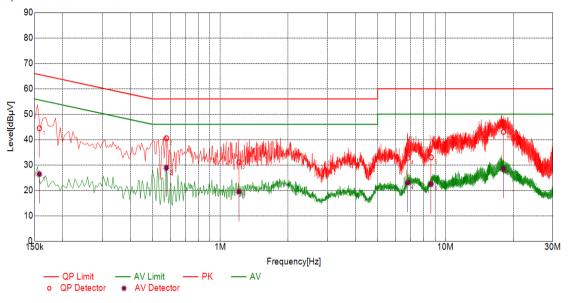
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Mode:e; Line:Neutral Line



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1575	10.10	44.43	65.59	21.16	26.39	55.59	29.20	N
2	0.5771	10.10	40.56	56.00	15.44	28.89	46.00	17.11	N
3	1.2120	10.10	31.04	56.00	24.96	19.54	46.00	26.46	N
4	6.8123	10.10	32.82	60.00	27.18	23.01	50.00	26.99	N
5	8.6398	10.10	33.03	60.00	26.97	22.49	50.00	27.51	N
6	18.0858	10.11	42.98	60.00	17.02	28.53	50.00	21.47	N



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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(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

2.2.1 E.U.T. Operation

Operating Environment:

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

Pretest these 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+playing MP4 (SD card)

+earphone(worst)+battery2+ Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
f: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter4
g: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
h: LTE Band 17 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

b: Transfer data between the EUT and the PC+USB cable2



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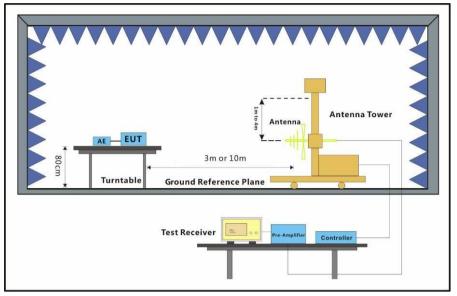
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2.2.2 Test Setup Diagram



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.



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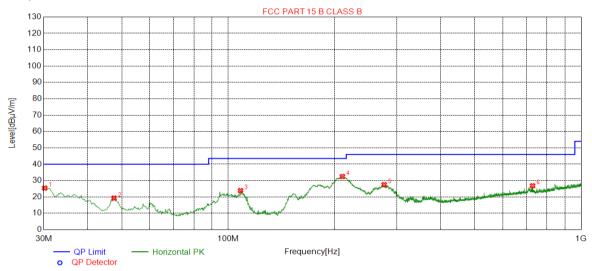
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Mode:b; Polarization:Horizontal



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	30.1940	25.40	-30.08	40.00	14.60	219	291	Horizontal		
2	47.4635	19.29	-30.40	40.00	20.71	227	263	Horizontal		
3	108.391	23.89	-32.00	43.50	19.61	145	257	Horizontal		
4	210.650	32.51	-30.96	43.50	10.99	126	226	Horizontal		
5	276.623	27.51	-29.05	46.00	18.49	243	66	Horizontal		
6	728.539	26.83	-18.84	46.00	19.17	205	215	Horizontal		



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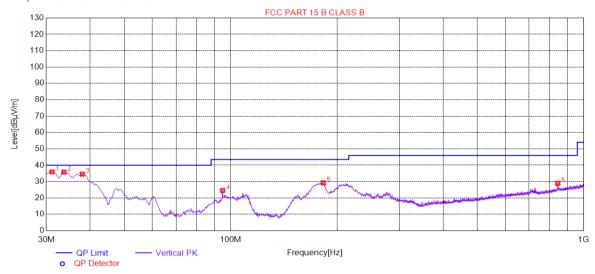
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Mode:b; Polarization:Vertical



Suspected List

uspeci	uspected List							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	35.93	-30.05	40.00	4.07	260	14	Vertical
2	33.6867	35.81	-29.99	40.00	4.19	202	14	Vertical
3	37.9556	34.56	-29.00	40.00	5.44	169	311	Vertical
4	94.8090	24.59	-32.92	43.50	18.91	209	83	Vertical
5	182.902	29.25	-32.99	43.50	14.25	278	360	Vertical
6	844.963	28.98	-16.97	46.00	17.02	296	300	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 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+playing MP4 (SD card)

+earphone(worst)+battery2+ Cable(worst)+adapter2
e: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter3
f: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter4
g: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter5
h: LTE Band 17 Idle+BT+WLAN +GPS Rx+camera (Front)
+earphone(worst)+battery(worst)+ Cable(worst)+adapter(worst)

The worst case f: LTE Bar for final test: +earphon

f: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +earphone(worst)+battery(worst)+ Cable(worst)+adapter4



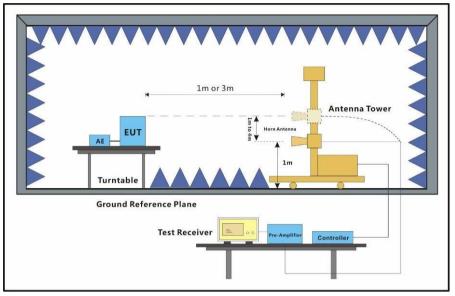
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2.3.2 Test Setup Diagram



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.



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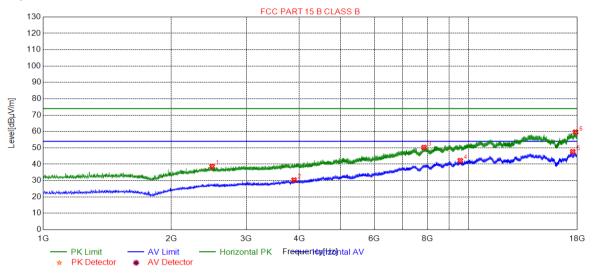
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Mode:f; Polarization:Horizontal



Suspected List

Suspect	uspected List							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2494.37	38.66	-25.89	74.00	35.34	121	319	Horizontal
2	3886.74	30.36	-22.00	54.00	23.64	156	4	Horizontal
3	7850.49	50.27	-8.63	74.00	23.73	101	243	Horizontal
4	9557.37	42.24	-5.56	54.00	11.76	147	193	Horizontal
5	17559.6	47.69	1.27	54.00	6.31	237	344	Horizontal
6	17825.7	59.67	0.54	74.00	14.33	156	307	Horizontal



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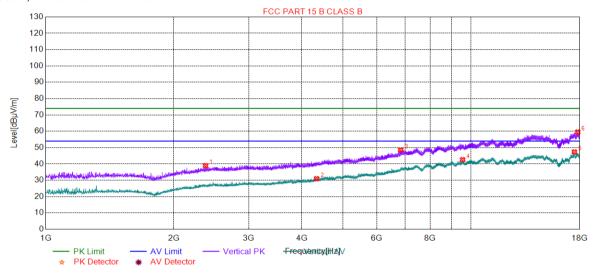
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Mode:f; Polarization:Vertical



Suspected List

suspec	uspecteu List							
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.36	38.94	-26.58	74.00	35.06	236	243	Vertical
2	4331.31	30.98	-20.16	54.00	23.02	267	344	Vertical
3	6827.89	48.50	-11.75	74.00	25.50	244	306	Vertical
4	9546.32	42.63	-5.56	54.00	11.37	159	268	Vertical
5	17482.3	47.34	1.42	54.00	6.66	154	230	Vertical
6	17798.5	59.54	0.69	74.00	14.46	247	205	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		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01		
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	2019-12-06	2020-12-05		
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	2020-04-02	2021-04-01		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	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	2019-11-18	2020-11-17		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17		
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05		
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		± 4.8dB (Below 1GHz)			
	Radiated Emission	± 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 - Photographs of Set-Up for ZR/2020/90037

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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