# **FCC RF Test Report**

APPLICANT : HMD Global Oy EQUIPMENT : Smart Phone

BRAND NAME : NOKIA MODEL NAME : TA-1032

FCC ID : 2AJOTTA-1032

STANDARD : FCC Part 15 Subpart E §15.407

**CLASSIFICATION**: (NII) Unlicensed National Information Infrastructure

This is a data re-used report which is only valid together with the original test report. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

#### SPORTON INTERNATIONAL INC.

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Report Version : Rev. 01

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Report No.: FR711304F

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR711304F	Rev. 01	Initial issue of report	Mar. 15, 2017

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# 1 General Description

# 1.1 Applicant

**HMD Global Oy** 

Karaportti 2, 02610 Espoo, Finland

#### 1.2 Manufacturer

**HMD Global Oy** 

Karaportti 2, 02610 Espoo, Finland

# 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smart Phone			
Brand Name	NOKIA			
Model Name	TA-1032			
FCC ID	2AJOTTA-1032			
	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/			
	HSPA+/LTE/NFC			
EUT cumperto Badico application	WLAN 2.4GHz 802.11b/g/n HT20/			
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40			
	Bluetooth v3.0 + EDR / Bluetooth v 4.0 LE/			
	Bluetooth v4.1 LE / Bluetooth v4.2 LE			
HW Version	DVT1.5			
SW Version	000C_1_26A			
EUT Stage	Production Unit			

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

# 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz			
Antenna Type / Gain	Loop Antenna			
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)			

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#### 2 Re-use of Measured Data

#### 2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: TA-1032, FCC ID: 2AJOTTA-1032) is electrically identical to the reference device (Model: TA-1038, FCC ID: 2AJOTTA-1038) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

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#### 2.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration as Appendix A.

The re-used RF data includes the following bands provided in Appendix B (Sporton RF Report No. FR711304-01F for the reference device Model: TA-1038, FCC ID: 2AJOTTA-1038):

#### 2.3 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for radiated spurious emission, the test result were consistent with FCC ID: 2AJOTTA-1038.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

#### 2.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
NII (B4)	2AJOTTA-1038	Part15E (FR711304-01F)	All sections applicable

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# **Appendix A. Product Equality Declaration**

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HMD Global Oy

Tel:

Date:

# **Product Equality Declaration**

We, HMD Global Oy declares on our sole responsibility for the product as below:

	Certification information						
SKU	Row	LatAm	Row	LatAm	APAC		
Number of SIM's	SKU1	SKU2	SKU1	SKU2	SKU1		
supported	SS	SS	DS	DS	SS/DS		
Model Name	TA 1020	TA 1020	TA 1022	TA 1029	TA-1020/		
Woder Name	TA-1020	TA-1028	TA-1032	TA-1038	TA-1032		

The differences between Row, Latam, APAC as below:

- RF section
- 1. Antenna pattern and matching has no difference

#### 2. Frequency band difference

	*Radio Fur	nctionality Matrix	-Same Row indicat	tes Signal Path is	Shared among SKUs
Bands	SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS	Remark
/ Model	TA-1020	TA-1032	TA-1028	TA-1038	=
GSM 850	V	V	V	V	No difference
GSM 900	V	V	V	V	No difference
GSM 1800	V	V	V	V	No difference
GSM 1900	V	V	V	V	No difference
LTE 1	V	V	Х	X	No difference
LTE 2	Х	X	V	V	U3404 for SKU1 SMT is B40 DRX SAW; U3404 for SKU2 is B2DRX SAW
LTE 3	V	V	V	V	No difference
LTE 4	Х	Х	V	V	U3304 Only for W_B4 Tx/PRX; LTE B4 TX/PRX
LTE 5	V	V	х	Х	U3408 only for SKU1 LTE B5 DRX
LTE 7	V	V	V	V	No difference
LTE 8	V	V	Х	Х	Z3404 only for SKU1 LTE band8 DRX
LTE 12	Х	X	V	V .	U3311 SMT is different,SKU1 SMT is the Duplexer of B20,SKU2 SMT is the Duplexe of B12/B17.
LTE 17	Х	Х	V	V	U3311 SMT is different, SKU1 SMT is the Duplexer of B20, SKU2 SMT is the Duplexe of B12/B17.
LTE 20	V	V	Х	Х	U3311 SMT is different, SKU1 SMT is the Duplexer of B20, SKU2 SMT is the Duplexe of B12/B17
LTE 28	V	V	V	V	NUL3336 SMT is different for SKU1& SKU2
LTE 38	V	V	V	V	No difference
LTE 40	V	V	X	Х	U3404 SKU1 SMT is the DRX SAW of LTE B40, SKU2 SMT is the DRX of LTE B2; U3202 is only for SKU1Tx/PRx of LTE B40.
WCDMA 1	V	V	V	V	No difference
WCDMA 2	V	V	V	V	No difference
WCDMA 4	Х	X	V	V V	U3304 Only for W_B4 Tx/PRX;LTE B4 TX/PRX
WCDMA 5	V	V	V	V	No difference
WCDMA 8	V	V	V	V	No difference
WLAN 2.4GHz	V	V	V	V	No difference
WLAN 5GHz	V	V	V	V	No difference
Bluetooth	V	V	V	V	No difference
NFC	V	V	V	V	No difference

#### 3. Board difference '

		SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS				
		TA-1020	TA-1032	TA-1028	TA-1038				
	IC (MT6169)	No difference							
WWAN	Component on PCB	No difference							
	Antenna 1	No difference							
	IC		No difference						
	(MT6625LN)		No differ	ence					
ВТ	Component on PCB		No difference						
	Antenna		No difference						
WLAN	IC (MT6625LN)	No difference							
2.4GHz	Component on PCB	No difference							
	Antenna		No difference						
WLAN	IC (MT6625LN)		No difference						
5GHz	Component on PCB	No difference							
	Antenna	No difference							
	IC MT6605		No differ	ence					
NFC	Component on PCB		No differ	ence					
	Antenna	No difference							
	IC	No difference							
E-compass	Component on PCB	No difference							
CAD	IC	No difference							
SAR cap Sensor	Component on PCB		No differ	ence					

#### ■ SW section

There is no different for SW design. Only the UI will show different model name.

#### ■ Mechanical section

There is only one different for the structure of SIM Card. For hardware system design is the same.

CKI	SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS	Remark
SKU	TA-1020	TA-1032	TA-1028	TA-1038	
SIM Slot	Single SIM	Dual SIM	Single SIM	Dual SIM	NA

Except listings above, the others are all the same.

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# Appendix B. Reference Report

Please refer to Sporton report number FR711304-01F which is issued separately.

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