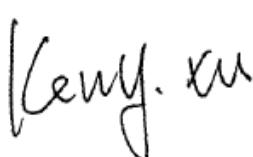


FCC TEST REPORT PART 0

Application No.:	SZCR2503000881WM
Applicant:	NOTHING TECHNOLOGY LIMITED
Address of Applicant:	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF
Manufacturer:	NOTHING TECHNOLOGY LIMITED
Address of Manufacturer:	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF
Product Name:	Smart Phone
Model No.(EUT):	A024
Trade Mark:	NOTHING
FCC ID:	2AZEQ-A024
Date of Receipt:	2025-03-10
Date of Test:	2025-03-13 to 2025-04-14
Date of Issue:	2025-04-25
Test conclusion:	PASS



Keny Xu
EMC Laboratory Manager



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR250300088113

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REVISION HISTORY

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-25		Original

Authorized for issue by:			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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1 General Information

1.1 General Description of EUT

Product Name:	Smart Phone		
Model No.:	A024		
Trade Mark:	NOTHING		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	004400152020000, 004400152020000, A5152P000138, 350367450045967, 350367450042147, 350367450046189, 350367450047286		
Hardware Version:	23112		
Software Version:	NOTHING OS3.3		
Antenna Type:	Metal frame Antenna		
Device Operating Configurations:			
Modulation Mode:	WCDMA :QPSK,16QAM LTE :QPSK,16QAM,64QAM,256QAM 5G NR :DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI :DSSS,OFDM,OFDMA; BT :GFSK, $\pi/4$ DQPSK,8DPSK		
HSDPA UE Category:	14	HSUPA UE Category:	7
DC-HSDPA UE Category:	24		
Power Class:	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	
	WCDMA Band II	1850~1910	
	WCDMA Band IV	1710~1755	
	WCDMA Band V	824~849	
	LTE Band 2	1850 ~1910	
	LTE Band 4	1710~1755	
	LTE Band 5	824~849	
	LTE Band 7	2500~2570	
	LTE Band 12	699~716	
	LTE Band 17	704-716	

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	LTE Band 25	1850~1915
	LTE Band 26	814~849
	LTE Band 30	2305~2315
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 48	3550~3700
	LTE Band 66	1710~1780
	LTE Band 71	663~698
	NR Band n2	1850 ~1910
	NR Band n5	824~849
	NR Band n7	2500~2570
	NR Band n12	699~712
	NR Band n25	1850~1915
	NR Band n30	2305~2315
	NR Band n38	2570~2620
	NR Band n41 (Class 2/3)	2496~2690
	NR Band n48	3550~3700
	NR Band n66	1710~1780
	NR Band n71	663~698
	NR Band n77(Class 2/3)	3450~3550
		3700~3980
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5350
		5470~5600
		5650~5725
		5725~5850
		5925~6425
	BT	2402~2480
	NFC	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by applicant <input type="checkbox"/> Provided by the laboratory	
Battery Information:	Model:	NT05A
	Normal Voltage:	3.86V


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	Rated capacity:	5150mAh
	Manufacturer:	Shenzhen Sunwoda Intelligence Technology Co., Ltd.

Note:

*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

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1.2 Test Location

All tests were performed at:

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

No tests were sub-contracted.

1.3 Test Facility

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

- **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 (Member No. 1937)**

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. Shenzhen EMC laboratory 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: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **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.



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1.4 Time-Averaging for SAR

The equipment under test (EUT) is a portable handset, it contains the Qualcomm modem supporting 3G/4G/NR/BT/WLAN/NFC bands, but only 3G/4G/NR/BT/WLAN are enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement. we verification the applicable cases in part2.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for smart transmit technologies are reported in Part 2 report.

Nomenclature for Part 0 Report:

Technology	Term	Description
WWAN	P_{limit}	Power level that corresponds to the exposure design target (<i>SAR_design_target</i>) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	<i>SAR_design_target</i>	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	<i>SAR Char</i>	Table containing P_{limit} for all technologies and bands



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2 SAR CHARACTERIZATION

2.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 1 represent different exposure scenarios.

Scenario	Description	SAR Test Cases
Head (DSI = 3)	<ul style="list-style-type: none">Device positioned next to headReceiver Active	<i>Head SAR per KDB Publication 648474 D04</i>
Hotspot mode (DSI = 4)	<ul style="list-style-type: none">Device transmits in hotspot mode near bodyHotspot Mode Active	<i>Hotspot SAR per KDB Publication 941225 D06</i>
Phablet (DSI = 4)	<ul style="list-style-type: none">Device is held with hand	<i>Phablet SAR per KDB Publication 648474 D04</i>
Body-worn (DSI = 4)	<ul style="list-style-type: none">Device being used with a body-worn accessory	<i>Body-worn SAR per KDB Publication 648474 D04</i>

Table 1: DSI and Corresponding Exposure Scenarios



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2.2 SAR Design Target And Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

$$\text{SAR_design_target} < \text{SAR}_{\text{regulatory_limit}} \times 10^{\frac{-\text{total uncertainty}}{10}}$$

Uncertainty dB (k=2)	All Band
Total uncertainty	1.0

Exposure position	Frequency band	SAR Regulatory Limit W/kg(1g)	SAR design target W/kg(1g)
Head	WWAN/WLAN	1.6	1.2
Body-worn	WWAN/WLAN	1.6	1.2
Hotspot	WWAN/WLAN	1.6	1.2
Product specific 10g SAR	WWAN/WLAN	4.0	3.2



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2.3 SAR Char

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band. Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (DSI: Device State Index).

P_{limit} for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	P_{max} *	P_{limit} (average)		
				Head	Body Worn/ Product specific 10g SAR	Hotspot
				DSI 3	DSI 4	DSI 4
WCDMA_B2	RMC	2#	24.0	18.5	18.5	18.5
	RMC	3#	24.0	15.5	21.0	21.0
WCDMA_B4	RMC	2#	24.0	20.5	20.5	20.5
	RMC	3#	24.0	15.0	21.0	21.0
WCDMA_B5	RMC	0#	24.0	24.0	24.0	24.0
	RMC	1#	24.0	20.5	23.0	23.0
LTE_B2	QPSK	2#	23.5	18.5	18.5	18.5
	QPSK	3#	23.5	15.5	20.5	20.5
	QPSK	4#	23.5	16.0	20.0	20.0
	QPSK	8#	23.5	19.5	21.0	21.0
LTE_B4	QPSK	2#	23.5	20.5	20.5	20.5
	QPSK	3#	23.5	15.5	21.0	21.0
	QPSK	4#	23.5	17.0	20.5	20.5
	QPSK	8#	23.5	18.5	21.0	21.0
LTE_B5	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	20.5	23.0	23.0
LTE_B7	QPSK	2#	23.5	19.0	19.0	19.0
	QPSK	3#	23.5	16.5	17.5	17.5
	QPSK	4#	23.5	15.5	19.0	19.0
	QPSK	8#	23.5	17.0	20.5	20.5
LTE_B12	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	21.5	23.0	23.0

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LTE_B17	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	21.0	22.0	22.0
LTE_B25	QPSK	2#	23.5	18.5	18.5	18.5
	QPSK	3#	23.5	15.5	20.5	20.5
	QPSK	4#	23.5	16.0	20.0	20.0
	QPSK	8#	23.5	19.5	21.0	21.0
LTE_B26	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	20.5	22.5	22.5
LTE_B30	QPSK	2#	23.5	19.5	19.5	19.5
	QPSK	3#	23.5	15.5	19.5	19.5
LTE_B66	QPSK	2#	23.5	20.5	20.5	20.5
	QPSK	3#	23.5	15.5	21.0	21.0
	QPSK	4#	23.5	17.0	20.5	20.5
	QPSK	8#	23.5	18.5	21.0	21.0
LTE_B71	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	21.5	23.0	23.0
LTE_B38	QPSK	2#	21.5	20.0	20.0	20.0
	QPSK	3#	21.5	16.5	19.5	19.5
	QPSK	4#	21.5	15.5	18.0	18.0
	QPSK	8#	21.5	16.5	21.5	21.5
LTE_B41(PC2)	QPSK	2#	21.5	19.5	19.5	19.5
	QPSK	3#	21.5	15.5	19.5	19.5
	QPSK	4#	21.5	15.0	18.0	18.0
	QPSK	8#	21.5	15.5	21.5	21.5
LTE_B41(PC3)	QPSK	2#	21.5	19.5	19.5	19.5
	QPSK	3#	21.5	15.5	19.5	19.5
	QPSK	4#	21.5	15.0	18.0	18.0
	QPSK	8#	21.5	15.5	21.5	21.5
LTE_B48	QPSK	4#	20.5	16.0	20.5	20.5
	QPSK	6#	19.5	17.5	19.5	19.5
	QPSK	3#	20.5	16.5	20.5	20.5
	QPSK	5#	19.5	17.5	19.5	19.5
NR5G_N2	QPSK	2#	23.5	18.5	18.5	18.5
	QPSK	3#	23.5	15.5	20.5	20.5

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	QPSK	4#	23.5	16.0	20.0	20.0
	QPSK	8#	23.5	19.5	21.0	21.0
NR5G_N5	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	24.0	20.5	23.0	23.0
NR5G_N7	QPSK	2#	23.5	19.0	19.0	19.0
	QPSK	3#	23.5	16.5	18.0	18.0
	QPSK	4#	23.5	15.5	19.0	19.0
	QPSK	8#	23.5	17.0	20.5	20.5
NR5G_N12	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	23.5	22.0	23.5	23.5
NR5G_N25	QPSK	2#	23.5	18.5	18.5	18.5
	QPSK	3#	23.5	15.5	20.5	20.5
	QPSK	4#	23.5	16.0	20.0	20.0
	QPSK	8#	23.5	19.5	21.0	21.0
NR5G_N30	QPSK	2#	23.5	19.5	19.5	19.5
	QPSK	3#	23.5	16.0	19.5	19.5
NR5G_N66	QPSK	2#	23.5	20.5	20.5	20.5
	QPSK	3#	23.5	15.5	21.0	21.0
	QPSK	4#	23.5	17.0	20.5	20.5
	QPSK	8#	23.5	18.5	21.0	21.0
NR5G_N71	QPSK	0#	23.5	23.5	23.5	23.5
	QPSK	1#	23.5	21.0	22.5	22.5
NR5G_N38	QPSK	2#	23.5	19.0	19.0	19.0
	QPSK	3#	23.5	16.0	18.0	18.0
	QPSK	4#	23.5	15.0	18.0	18.0
	QPSK	8#	23.5	16.5	21.0	21.0
NR5G_N41(PC2)	QPSK	2#	25.0	19.0	19.0	19.0
	QPSK	3#	25.0	16.0	18.0	18.0
	QPSK	4#	25.0	15.0	18.0	18.0
	QPSK	8#	25.0	16.5	21.0	21.0
NR5G_N41(PC3)	QPSK	2#	23.5	17.5	17.5	17.5
	QPSK	3#	23.5	14.5	16.5	16.5
	QPSK	4#	23.5	13.5	16.5	16.5
	QPSK	8#	23.5	15.0	19.5	19.5

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NR5G_N48	QPSK	4#	23.5	16.5	20.5	20.5
	QPSK	6#	21.5	15.0	18.5	18.5
	QPSK	3#	23.5	15.0	20.0	20.0
	QPSK	5#	21.5	13.5	21.5	21.5
NR5G_N77(PC2)	QPSK	4#	25.0	14.5	20.0	20.0
	QPSK	6#	21.0	13.0	17.5	17.5
	QPSK	3#	25.0	15.0	19.0	19.0
	QPSK	5#	21.0	12.0	21.0	21.0
NR5G_N77(PC3)	QPSK	4#	23.5	13.0	18.5	18.5
	QPSK	6#	19.5	11.5	16.0	16.0
	QPSK	3#	23.5	13.5	17.5	17.5
	QPSK	5#	19.5	10.5	19.5	19.5

Band	Antenna	P_{max}^*	P _{limit (average)}	
			Head	DSI 3
WIFI 2.4G MIMO	MIMO	18.0	13.5	
WIFI 5G MIMO (5.15-5.35GHzHz)	MIMO	16.0	14.5	
WIFI 5G MIMO (5.47-5.725GHzHz)	MIMO	17.5	11.5	
WIFI 5G MIMO (5.725-5.85GHzHz)	MIMO	17.5	11.5	
WIFI 6E MIMO (5.925-6.425GHzHz)	MIMO	15.5	12.0	
Bluetooth	6#	17.0	13.0	
Bluetooth	7#	17.0	13.0	

Note:

- P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to $P_{max} +$ Total uncertainty.
- The max allowed output power is the $P_{limit} +$ Total uncertainty, and if P_{limit} is higher than P_{max} , the device output power will be P_{max} instead.
- The following table is duty cycle and factor used for calculating time average power.



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Mode	Duty Cycle	Time Average calculation Factor
GSM 1TX	12.5%	-9.0
GSM 2TX	25.0%	-6.0
GSM 3TX	37.5%	-4.3
GSM 4TX	50.0%	-3.0
LTE FDD	100.0%	0.0
LTE TDD	63.3%	-2.0
LTE TDD HPUE	43.3%	-3.5
NR FDD	100.0%	0.0

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