



FCC TEST REPORT PART 0

Application No.: ZEWM2309001432RG02
Applicant: Xiaomi Communications Co., Ltd.
Manufacturer: Xiaomi Communications Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): 23113RKC6G
Trade Mark: POCO
FCC ID: 2AFZZRKC6G
Date of Receipt: 2023/09/27
Date of Test: 2023/10/22 to 2023/11/17
Date of Issue: 2023/11/17
Test conclusion: **PASS**

Authorized Signature:

Keny Xu
Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
ZEWM2309001432RG02	01	Original	2023-11-17

Prepared By	<div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Vito Wang</div> <hr style="border: 0.5px solid black;"/> <p style="text-align: center; margin: 0;">Vito Wang</p>
Checked By	<div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Roman Pan</div> <hr style="border: 0.5px solid black;"/> <p style="text-align: center; margin: 0;">Roman Pan</p>



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SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch Wireless Laboratory

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1 General Information

1.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Vito Wang, Claire Shen



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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 Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

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

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



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	23113RKC6G		
FCC ID:	2AFZZRKC6G		
Trade Mark:	POCO		
Product Phase:	Identical Prototype		
IMEI:	867826060041167/867826060041175 867826060041282/867826060041290 867826060041266/867826060041274		
Hardware Version:	13510N11		
Software Version:	Xiaomi HyperOS 1.0		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; 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, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
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
	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 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
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869~894
NR Band n7	2500~2570	2620~2690	



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	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n48	3550~3700	3550~3700
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78	3450~3550	3450~3550
		3700~3800	3700~3800
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
	Wi-Fi 5G	5150~5250	5150~5250
5250~5350		5250~5350	
5470~5725		5470~5725	
5725~5850		5725~5850	
NFC	Wireless Technology and Frequency Range		13.56MHz
	mode		ASK
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	BM5W	
	Normal Voltage:	+3.89V	
	Rated capacity:	4880mAh	
	Brand Name:	MI	

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1.5 Time-Averaging for SAR

The equipment under test (EUT) is a portable handset, it contains the Qualcomm modem supporting 2G/3G/4G/5G NR/BT/WLAN/NFC bands. But only 2G/3G/4G/5G NR 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.

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 WWAN 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 = 1)	<ul style="list-style-type: none"> Device positioned next to head Receiver Active 	Head SAR per KDB Publication 648474 D04
Body-worn (DSI = 4)	<ul style="list-style-type: none"> Device being used with a body-worn accessory 	Body-worn SAR per KDB Publication 648474 D04
Phablet (DSI = 3)	<ul style="list-style-type: none"> Device is held with hand 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Hotspot mode (DSI = 5)	<ul style="list-style-type: none"> Device transmits in hotspot mode near body Hotspot Mode Active 	Hotspot SAR per KDB Publication 941225 D06

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.

$$SAR_design_target < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Band	Mode	Antenna	P _{max} *	Uncertainty	SAR_design_target Head&Body Worn&Hotspot	SAR_design_target Limbs
GSM 850	GPRS 4TS	0#	24.0	1.0	0.87	2.07
	GPRS 4TS	1#	24.0	1.5	0.78	1.84
GSM 1900	GPRS 4TS	2#	22.0	1.5	0.78	1.84
	GPRS 4TS	5#	22.0	1.0	0.87	2.07
WCDMA_B2	RMC	2#	24.0	1.5	0.78	1.84
	RMC	5#	24.0	1.0	0.87	2.07
WCDMA_B4	RMC	2#	24.0	1.5	0.78	1.84
	QPSK	3#	24.0	1.5	0.78	1.84
WCDMA_B5	RMC	5#	24.0	1.0	0.87	2.07
	RMC	0#	23.5	1.0	0.87	2.07
LTE_B2	RMC	1#	23.0	1.5	0.78	1.84
	QPSK	2#	24.5	1.2	0.83	1.97
LTE_B4	QPSK	5#	24.5	1.0	0.87	2.07
	QPSK	2#	25.0	0.7	0.94	2.21
LTE_B5	QPSK	3#	24.5	1.2	0.83	1.97
	QPSK	5#	24.5	1.2	0.83	1.97
LTE_B7	QPSK	0#	24.0	1.0	0.87	2.07
	QPSK	1#	23.5	1.5	0.78	1.84
LTE_B38	QPSK	2#	25.0	0.7	0.94	2.21
	QPSK	3#	24.5	1.2	0.83	1.97
LTE_B41	QPSK	5#	24.5	1.2	0.83	1.97
	QPSK	2#	22.5	1.0	0.87	2.07
LTE_B48	QPSK	3#	22.0	1.5	0.78	1.84
	QPSK	4#	22.0	1.5	0.78	1.84
LTE_B66	QPSK	5#	22.0	1.5	0.78	1.84
	QPSK	2#	23.0	0.7	0.94	2.21
NR5G_N2	QPSK	3#	22.5	1.2	0.83	1.97
	QPSK	4#	22.5	1.2	0.83	1.97
NR5G_N5	QPSK	5#	22.5	1.2	0.83	1.97
	QPSK	6#	20.5	1.5	0.78	1.84
NR5G_N7	QPSK	7#	22.0	1.0	0.87	2.07
	QPSK	8#	20.5	1.5	0.78	1.84
NR5G_N38	QPSK	9#	20.0	1.5	0.78	1.84
	QPSK	2#	25.0	0.7	0.94	2.21
NR5G_N41	QPSK	3#	24.5	1.2	0.83	1.97
	QPSK	5#	24.5	1.2	0.83	1.97
NR5G_N48	QPSK	2#	24.0	1.5	0.78	1.84
	QPSK	5#	24.5	1.0	0.87	2.07
NR5G_N5	QPSK	0#	24.0	1.0	0.87	2.07
	QPSK	1#	23.5	1.5	0.78	1.84
NR5G_N7	QPSK	2#	25.0	0.7	0.94	2.21
	QPSK	3#	24.5	1.2	0.83	1.97
NR5G_N38	QPSK	5#	24.5	1.2	0.83	1.97
	QPSK	2#	24.5	1.0	0.87	2.07
NR5G_N41	QPSK	3#	24.0	1.5	0.78	1.84
	QPSK	4#	24.0	1.5	0.78	1.84
NR5G_N48	QPSK	5#	24.0	1.5	0.78	1.84
	QPSK	2#	25.0	0.7	0.94	2.21
NR5G_N41	QPSK	3#	24.5	1.2	0.83	1.97
	QPSK	4#	24.5	1.2	0.83	1.97
NR5G_N48	QPSK	5#	24.5	1.2	0.83	1.97
	QPSK	6#	23.0	1.5	0.78	1.84



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	QPSK	7#	24.0	1.0	0.87	2.07
	QPSK	8#	23.0	1.5	0.78	1.84
	QPSK	9#	21.5	1.5	0.78	1.84
NR5G_N77 PC2 50% Duty Cycle	QPSK	6#	22.5	1.5	0.78	1.84
	QPSK	7#	23.0	1.0	0.87	2.07
	QPSK	8#	21.0	1.5	0.78	1.84
NR5G_N77 PC3 100% Duty Cycle	QPSK	9#	21.0	1.5	0.78	1.84
	QPSK	6#	24.5	1.2	0.83	1.97
	QPSK	7#	25.0	0.7	0.94	2.21
NR5G_N78 PC2 50% Duty Cycle	QPSK	8#	23.0	1.5	0.78	1.84
	QPSK	9#	22.5	1.5	0.78	1.84
	QPSK	6#	22.5	1.5	0.78	1.84
NR5G_N78 PC3 100% Duty Cycle	QPSK	7#	23.0	1.0	0.87	2.07
	QPSK	8#	21.5	1.5	0.78	1.84
	QPSK	9#	21.0	1.5	0.78	1.84
	QPSK	6#	24.5	1.2	0.83	1.97
	QPSK	7#	25.0	0.7	0.94	2.21
	QPSK	8#	23.5	1.5	0.78	1.84
	QPSK	9#	22.5	1.5	0.78	1.84

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 DSI 1	Body worn DSI 4	Hotspot DSI 5
GSM 850	GPRS 4TS	0#	24.0	24.0	24.0	24.0
	GPRS 4TS	1#	24.0	21.0	24.0	21.0
GSM 1900	GPRS 4TS	2#	22.0	18.5	22.0	18.5
	GPRS 4TS	5#	22.0	22.0	22.0	22.0
WCDMA_B2	RMC	2#	24.0	18.0	20.5	18.0
	RMC	5#	24.0	24.0	24.0	21.0
WCDMA_B4	RMC	2#	24.0	18.0	21.5	18.0
	QPSK	3#	24.0	18.0	24.0	18.0
WCDMA_B5	RMC	5#	24.0	24.0	24.0	21.5
	RMC	0#	23.5	23.5	23.5	23.5
LTE_B2	RMC	1#	23.0	19.0	23.0	19.0
	QPSK	2#	24.5	18.0	21.5	18.0
LTE_B4	QPSK	5#	24.5	24.5	24.5	22.0
	QPSK	2#	25.0	18.0	22.0	18.0
LTE_B5	QPSK	3#	24.5	18.0	24.5	18.0
	QPSK	5#	24.5	24.5	24.5	20.5
LTE_B7	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	23.5	19.0	22.5	19.0
LTE_B38	QPSK	2#	25.0	16.0	19.0	16.0
	QPSK	3#	24.5	16.5	24.5	16.5
LTE_B41	QPSK	5#	24.5	24.5	24.5	19.0
	QPSK	2#	22.5	16.5	19.0	16.5
	QPSK	3#	22.0	16.0	22.0	16.0
	QPSK	4#	22.0	15.0	22.0	15.0
	QPSK	5#	22.0	22.0	22.0	18.0
	QPSK	2#	23.0	17.0	19.5	17.0



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

	QPSK	3#	22.5	16.5	22.5	16.5
	QPSK	4#	22.5	15.5	22.5	15.5
	QPSK	5#	22.5	22.5	22.5	18.5
LTE_B48	QPSK	6#	20.5	11.5	20.5	11.5
	QPSK	7#	22.0	14.5	18.5	14.5
	QPSK	8#	20.5	20.5	20.5	20.5
	QPSK	9#	20.0	18.0	20.0	17.5
LTE_B66	QPSK	2#	25.0	18.0	21.5	18.0
	QPSK	3#	24.5	18.0	24.5	18.0
	QPSK	5#	24.5	24.5	24.5	21.0
NR5G_N2	QPSK	2#	24.0	16.0	20.0	16.0
	QPSK	5#	24.5	24.5	24.5	21.5
NR5G_N5	QPSK	0#	24.0	24.0	24.0	24.0
	QPSK	1#	23.5	20.0	23.5	20.0
NR5G_N7	QPSK	2#	25.0	17.0	18.5	17.0
	QPSK	3#	24.5	15.5	24.5	15.5
	QPSK	5#	24.5	24.5	24.5	18.5
NR5G_N38	QPSK	2#	24.5	17.5	19.0	17.5
	QPSK	3#	24.0	17.5	24.0	17.5
	QPSK	4#	24.0	16.5	24.0	16.5
	QPSK	5#	24.0	24.0	24.0	18.0
NR5G_N41	QPSK	2#	25.0	18.0	19.5	18.0
	QPSK	3#	24.5	18.0	24.5	18.0
	QPSK	4#	24.5	17.0	24.5	17.0
	QPSK	5#	24.5	24.5	24.5	18.5
NR5G_N48	QPSK	6#	23.0	12.5	23.0	12.5
	QPSK	7#	24.0	13.0	16.0	13.0
	QPSK	8#	23.0	23.0	23.0	23.0
	QPSK	9#	21.5	15.5	21.5	15.0
	QPSK	6#	22.5	/	/	/
NR5G_N77 PC2 50% Duty Cycle	QPSK	7#	23.0	/	/	/
	QPSK	8#	21.0	21.0	/	/
	QPSK	9#	21.0	/	/	/
	QPSK	6#	24.5	14.0	23.5	14.0
NR5G_N77 PC3 100% Duty Cycle	QPSK	7#	25.0	15.5	17.0	15.5
	QPSK	8#	23.0	23.0	22.5	20.0
	QPSK	9#	22.5	19.5	19.5	16.0
	QPSK	6#	22.5	/	/	/
NR5G_N78 PC2 50% Duty Cycle	QPSK	7#	23.0	/	/	/
	QPSK	8#	21.5	21.5	/	/
	QPSK	9#	21.0	/	/	/
	QPSK	6#	24.5	14.0	23.5	14.0
NR5G_N78 PC3 100% Duty Cycle	QPSK	7#	25.0	15.0	16.5	15.0
	QPSK	8#	23.5	23.5	23.0	20.0
	QPSK	9#	22.5	19.5	19.5	15.0

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.
- 2) 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.
- 3) All P_{limit} power levels entered in above table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM, LTE TDD & 5G NR TDD).
- 4) Note that WLAN operations are not enabled with Smart Transmit.



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

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