

FCC TEST REPORT PART 0

Application No.: ZEWM2311001675RG
Applicant: vivo Mobile Communication Co., Ltd.
Manufacturer: vivo Mobile Communication Co., Ltd.
Product Name: Mobile Phone
Model No.(EUT): V2318
Trade Mark: vivo
FCC ID: 2AUCY-V2318
Date of Receipt: 2023/11/08
Date of Test: 2023/11/10 to 2023/12/02
Date of Issue: 2023/12/07
Test conclusion: **PASS**

Authorized Signature:

Keny Xu
Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
ZEWM2311001675RG02	01	Original	2023/12/07

Prepared By	<div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Vito Wang</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Vito Wang
Checked By	<div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Roman Pan</div> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Roman Pan



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1 General Information

1.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

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, Ethan Li



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 Shenzhen Branch Wireless Laboratory

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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):	V2318		
FCC ID:	2AUCY-V2318		
Trade Mark:	vivo		
Product Phase:	Identical Prototype		
IMEI:	869975079989417, 869975079987718, 869975079988393, 869975079987379		
Hardware Version:	MP_0.1		
Software Version:	PD2323IF_EX_A_14.0.2.21.W30		
Antenna Type:	PIFA Antenna		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM(HSPA+); 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 NFC: ASK		
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 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2120
NR Band n2	1850 ~1910	1930 ~1990	



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	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2120
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78 (Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 2.4G	2412~2462	2412~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	NFC	13.56	13.56
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	BA18	
	Normal Voltage:	+3.91V	
	Rated capacity:	4895mAh	
	Manufacturer:	Dongguan NVT Technology Co.,Ltd.	
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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. GSM/WCDMA/LTE Standalone/NR SA are configured for peak exposure mode, and NSA and Inter band UL CA are enabled the dynamic mode, 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 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 = 2)	<ul style="list-style-type: none"> Device positioned next to head Receiver Active 	Head SAR per KDB Publication 648474 D04
Hotspot mode (DSI = 6)	<ul style="list-style-type: none"> Device transmits in hotspot mode near body Hotspot Mode Active 	Hotspot SAR per KDB Publication 941225 D06
Phablet Grip (DSI= 4)	<ul style="list-style-type: none"> Device is held with hand and grip sensor is triggered 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Phablet (DSI = 7)	<ul style="list-style-type: none"> Device is held with hand and grip sensor is not triggered Distance grip sensor not triggered 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (DSI = 7)	<ul style="list-style-type: none"> Device being used with a body-worn accessory 	Body-worn SAR per KDB Publication 648474 D04

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	1.49

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	0.6
Body worn	WWAN	1.6	0.75
Hotspot	WWAN	1.6	0.5

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(10g)
Product specific 10gSAR	WWAN	4.0	2.0



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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	Limbs	Hotspot	Body worn
				DSI 2	DSI 4	DSI 6	DSI 7
GSM 850	GPRS 2TS	11#	25.1	/	25.1	/	25.1
	GPRS 4TS		24.6	23.8	/	23.9	/
	GPRS 2TS	41#	25.0	25.0	25.0	/	25.0
	GPRS 4TS		24.5	/	/	24.2	/
GSM 1900	GPRS 2TS	14#	22.2	/	22.2	/	22.2
	GPRS 4TS		21.7	18.4	/	21.0	/
	GPRS 1TS	31#	21.0	/	/	20.1	/
	GPRS 2TS		22.0	22.0	22.0	/	22.0
WCDMA_B2	RMC	14#	23.1	17.1	20.6	19.1	23.1
	RMC	31#	23.0	23.0	20.5	19.0	20.5
WCDMA_B4	RMC	14#	24.3	17.3	20.3	19.3	23.8
	RMC	31#	24.0	24.0	20.0	18.5	20.0
WCDMA_B5	RMC	11#	24.2	22.7	24.2	22.7	24.2
	RMC	41#	24.0	24.0	24.0	23.0	24.0
LTE_B2	QPSK	14#	23.9	17.9	21.4	19.9	23.9
	QPSK	31#	23.6	23.6	21.1	19.6	21.1
LTE_B4	QPSK	12#	23.4	23.4	23.4	23.4	23.4
	QPSK	14#	24.5	17.5	21.0	19.5	24.5
	QPSK	31#	24.0	24.0	20.5	18.5	20.5
LTE_B5	QPSK	11#	24.1	23.1	24.1	23.1	24.1
	QPSK	41#	24.0	24.0	24.0	23.5	24.0



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LTE_B7	QPSK	12#	24.1	20.6	21.6	19.6	24.1
	QPSK	14#	23.7	16.2	21.2	19.7	23.7
	QPSK	31#	23.6	23.6	21.1	19.6	21.1
LTE_B12	QPSK	11#	24.2	24.2	24.2	24.2	24.2
	QPSK	41#	24.0	24.0	24.0	24.0	24.0
LTE_B13	QPSK	11#	24	24.0	24.0	23.5	24.0
	QPSK	41#	24.0	24.0	24.0	24.0	24.0
LTE_B17	QPSK	11#	24.2	24.2	24.2	24.2	24.2
	QPSK	41#	24.0	24.0	24.0	24.0	24.0
LTE_B26	QPSK	11#	23.7	23.2	23.7	23.7	23.7
	QPSK	41#	23.5	23.5	23.5	23.0	23.5
LTE_B38	QPSK	14#	22.2	17.2	21.7	20.2	22.2
	QPSK	31#	22.2	22.2	21.7	20.2	21.7
LTE_B41	QPSK	14#	22.2	15.7	21.2	19.7	22.2
	QPSK	31#	22.2	22.2	20.7	19.2	20.7
LTE_B66	QPSK	14#	24.5	17.5	21.0	19.5	24.5
	QPSK	31#	24.2	24.2	20.7	18.7	20.7
NR5G_N2	QPSK	12#	23.0	20.5	21.5	20.0	23.0
	QPSK	14#	23.5	17.0	20.5	18.5	23.5
	QPSK	31#	23.5	23.5	20.5	19.0	20.5
NR5G_N5	QPSK	11#	24.4	21.9	24.4	23.4	24.4
	QPSK	41#	24.5	24.5	24.5	23.5	24.5
NR5G_N7	QPSK	12#	23.7	20.2	21.7	20.2	23.7
	QPSK	14#	23.3	15.3	19.8	18.3	22.8
	QPSK	31#	23.5	23.5	20.5	19.0	20.5
NR5G_N26	QPSK	11#	23.5	22.0	23.5	22.0	23.5
	QPSK	41#	24.0	24.0	24.0	23.5	24.0
NR5G_N38	QPSK	12#	24.5	20.5	20.5	19.0	24.5
	QPSK	14#	23.3	16.8	20.8	18.8	23.3
	QPSK	31#	24.0	24.0	21.0	19.5	21.0
NR5G_N41 PC2 100% Duty Cycle	QPSK	12#	24.5	20.5	21.0	19.0	24.5
	QPSK	14#	23.6	16.1	21.1	19.1	23.6
	QPSK	24#	23.3	16.3	20.3	18.8	20.3
	QPSK	31#	24.0	24.0	21.0	19.5	21.0



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NR5G_N41 PC3 100% Duty Cycle	QPSK	12#	22.8	20.5	21.0	19.0	22.8
	QPSK	14#	22.8	16.1	21.1	19.1	23.6
	QPSK	24#	22.5	16.3	20.3	18.8	20.3
	QPSK	31#	23.0	23.0	21.0	19.5	21.0
NR5G_N66	QPSK	12#	23.1	23.1	23.1	23.1	23.1
	QPSK	14#	23.6	17.0	20.5	19.0	24.0
	QPSK	31#	24.5	24.5	20.5	19.0	20.5
NR5G_N77	QPSK	13#	23.5	18.0	17.5	16.0	21.5
	QPSK	23#	22.0	17.0	19.5	18.0	19.5
	QPSK	15#	22.9	16.6	20.6	18.6	22.9
	QPSK	21#	22.0	13.4	15.9	13.9	15.9
NR5G_N78 PC2 100% Duty Cycle	QPSK	13#	26.0	18.0	17.5	15.5	21.5
	QPSK	23#	23.8	16.8	19.3	17.8	19.3
	QPSK	15#	25.6	16.6	20.6	18.6	23.6
	QPSK	21#	22.9	13.4	15.9	13.9	15.9
NR5G_N78 PC3 100% Duty Cycle	QPSK	13#	23.0	18.0	17.5	15.5	21.5
	QPSK	23#	19.5	15.8	18.3	16.8	18.3
	QPSK	15#	23.2	16.6	20.6	18.6	23.2
	QPSK	21#	20.2	13.4	15.9	13.9	15.9

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) Note that WLAN operations are not enabled with Smart Transmit.

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