

MAX Testing Co., Ltd.

Report No.: MAX25041511P01-R01RF

RF TEST REPORT

Report Reference No.....: MAX25041511P01-R01RF

FCC ID.....: 2BFZ5-X5

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Date of issue....: April 27, 2025

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Applicant's name.....: Hangzhou Zansheng Digital Co., Ltd.

501-2, Building 17, No.1008 Xiangwang Street, Canggian Street, Address....::

Yuhang District, Hangzhou City, Zhejiang Province, China

Test specification....::

FCC 1.1310 Standard....:

KDB 447498 D01 General RF Exposure Guidance v06

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Test item description.....: Sound Mixer

Trade Mark....: N/A

Manufacturer....: Dongguan Xingnan Digital Technology Co., Ltd.

Model/Type reference....:

C200, C100Pro, SOLO3, J50, X3, X6, X7, X9, X10, NX5, SK900, Listed Models:

SK300, S9, S30

Modulation: GFSK, II/4DQPSK, 8DPSK

Frequency..... From 2402MHz to 2480MHz

DC 3.7V From Battery and DC 5V From External circuit Rating....:

Result....:



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RF EXPOSURE EVALUATION METHOD

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

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For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}]$ ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

f_(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

EUT Specification

Frequency band (Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz					
	☐ WLAN: 5.150GHz ~ 5.250GHz					
	☐ WLAN: 5.725GHz ~ 5.850GHz					
	☐ Others BT:2402-2480MHz					
Device category	□ Portable (<20cm separation)					
10.	☐ Mobile (>20cm separation)					
	☐ Others					
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)					
10.	☐ General Population/Uncontrolled exposure (S=1mW/cm²)					
Antenna diversity						
	☐ Multiple antennas					
	☐ Tx diversity					
	☐ Rx diversity					
	☐ Tx/Rx diversity					
Max. output power	4.265 dBm (0.00267W)					
Antenna gain (Max)	-1.37 dBi					
Evaluation applied	☐ MPE Evaluation					



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RF EXPOSURE EVALUATION METHOD SAR Test Exclusion Thresholds for 100 MHz − 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

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MHz	5	10	15	20	25	mm		
150	39	77	116	155	194			
300	27	55	82	110	137	3		
450	22	45	67	89	112			
835	16	33	49	66	82			
900	16 3	32	47	63 49	79 61	SAR Test		
1500	12	24	37 49 61 33 44 54					
1900	11	22		Exclusion Threshold (mW)				
2450	2450 10 3600 8	19	29	38	48	Threshold (m 11)		
3600		8 16	24	32	40			
5200	7	13 20 26		33				
5400	6	13	19	26	32			
5800	6	12	19	25	31			

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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Maximum measured transmitter power.

BR/EDR

70.700.70								
Operating Mode	Freque ncy	Measur ed Power	max. power	Antenna Gain	min. test separation distance	[√ f(GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
GFSK	2402	3.272	2.12	-1.37	5	1.550	0.6584	3
	2441	2.854	1.93	-1.37	5	1.562	0.6029	3
	2480	2.677	1.85	-1.37	5	1.575	0.5834	3
π/4DQPSK	2402	3.378	2.18	-1.37	5	1.550	0.6747	3
	2441	3.043	2.02	-1.37	5	1.562	0.6297	3
	2480	2.820	1.91	-1.37	5	1.575	0.6029	3
8-DPSK	2402	4.265	2.67	-1.37	5	1.550	0.8276	3
	2441	3.827	2.41	-1.37	5	1.562	0.7542	3
	2480	3.504	2.24	-1.37	5	1.575	0.7058	3

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] $\cdot [\sqrt{f(GHz)}]$

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.