

RF Exposure Evaluation Report					
Report Reference No	MTEB25030335-H 2AZ6J-AKX10S				
Compiled by (position+printed name+signature):	File administrators Alisa Luo	Aisa Luo Sunny Deng Jutter			
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Approved by (position+printed name+signature):	Manager Yvette Zhou	petter			
Date of issue	Mar.27,2025				
Representative Laboratory Name. :	Shenzhen Most Technology Ser	rvice Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North Nanshan, Shenzhen, Guangdong				
Applicant's name:	Medeli Electronics Co., Ltd.				
Address:	20/F., Cheung Lee Industrial Building, 9 Cheung Lee Street, Chai Wan, Hongkong				
Test specification/ Standard:	47 CFR Part 1.1307				
TRF Originator	47 CFR Part 2.1093 Shenzhen Most Technology Servi	ice Co. I td			
Shenzhen Most Technology Service		00 00., Etd.			
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Test item description:	Electronic Keyboard				
Trade Mark	MEDELI				
Model/Type reference:	AKX10S				
Listed Models	.∶ DX2324 ,AKXXXX(X=A~Z,a~z,0~9 or blank)				
Modulation Type:	GFSK, π/4DQPSK,8DPSK				
Operation Frequency:	From 2402MHz to 2480MHz				
Hardware Version	V1.0.0				
Software Version	V1.0.2				
Rating	DC 15V by Adapter				
Result	: PASS				

TEST REPORT

Equipment under Test	:	Electronic Keyboard
Model /Type	:	AKX10S
Listed Models	:	DX2324 ,AKXXXX(X=A~Z,a~z,0~9 or blank)
Remark		Only the model "AKX10S" was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the Silkscreen and the Color of Appearance is different.
Applicant	:	Medeli Electronics Co., Ltd.
Address	:	20/F., Cheung Lee Industrial Building, 9 Cheung Lee Street, Chai Wan, Hongkong
Manufacturer	:	Medeli Musical Instrument (Zhu Hai) Co.,Ltd
Address	:	Medeli Industrial Park,2 Shuang Lin East Road,Dalinshan Area, Liangang Industrial Zone, Jinwan District, Zhuhai, China.

Test Result:	PASS
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2025.03.27	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	-1.85	-1.85 ± 1	-0.85			
Middle(2440MHz)	-3.16	-3.16 ± 1	-2.16			
Highest(2480MHz)	-2.89	-2.89 ± 1	-1.89			

Worst case: GFSK						
Channel Maximum Peak Conducted Output	Maximum tune-up Power		Calculated	Exclusion	SAR Test	
	Power (dBm)	(dBm)	(mW)	value	alue threshold	Exclusion
Lowest(2402MHz)	-1.85	-0.85	0.82	0.25	3.0	Yes

Report No.: MTEB25030335-H

EDR

GFSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	-0.84	-0.84±1	0.16			
Middle(2441MHz)	-1.79	-1.79±1	-0.79			
Highest(2480MHz)	-2.22	-2.22±1	-1.22			

π/4DQPSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)			
Lowest(2402MHz)	1.25	1.25±1	2.25			
Middle(2441MHz)	0.34	0.34 ± 1	1.34			
Highest(2480MHz)	-0.11	-0.11±1	0.89			

8DPSK						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power (dBm)			
	(dBm)	(dBm)				
Lowest(2402MHz)	1.59	1.59±1	2.59			
Middle(2441MHz)	0.69	0.69 ± 1	1.69			
Highest(2480MHz)	0.22	0.22 ± 1	1.22			

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)Maximum tune-up Power(dBm)(mW)			Calculated value	Exclusion threshold	SAR Test Exclusion
Lowest(2402MHz)	1.59	2.59	1.82	0.56	3.0	Yes

.....THE END OF REPORT.....