

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

**Exhibit 7B: SAR Test Report Photographs****Motorola Solutions Inc****EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd (Innoplex)

Plot 2A, Medan Bayan Lepas

Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.



H92KDF9PW6AN  
(PMUD3431A)



H92KDH9PW7AN  
(PMUD3432A)

*Tiong*

**Tiong Nguk Ing**  
Deputy Technical Manager  
Approval Date: 1/26/2017

**Report Revision History**

<b>Date</b>	<b>Revision</b>	<b>Comments</b>
1/6/2017	A	Initial release

## 1.0 Highest SAR Test Position per body location

### 1.1 Body

DUT with antenna PMAD4088B with offered battery PMNN4489A and body worn PMLN7008A against the phantom without an audio accessory attached. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	8	*28-33	*55-60
**PMAD4093A	8	33	45
PMAD4094A	8	*28-33	*40-45
PMAD4095A	8	28	40

(\*) Depending on applicable offered battery

(\*\*) Antenna not applicable for FCC as frequency range outside FCC authorized spectrum.

### 1.2 Face

Front of DUT with antenna PMAD4095A with offered battery PMNN4491A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other antenna, internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	26	37	50
**PMAD4093A	25	36	40
PMAD4094A	26	37	42
PMAD4095A	26	37	42

(\*\*) Antenna not applicable for FCC as frequency range outside FCC authorized spectrum.

**1.3 Head**

Not applicable.

**1.4 Hand**

Not applicable

**2.0 Other SAR tested positions at the body****2.1 Body worn**

DUT with antenna PMAD4088B with offered battery PMNN4489A, audio PMMN4062A and body worn PMLN4651A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	8	*28-33	*55-60
PMAD4094A	8	28	40
PMAD4095A	8	28	40

(\*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery PMNN4424A, audio PMMN4602A and body worn PMLN5838A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	0	*50-52	*110-112
PMAD4094A	0	50	76
PMAD4095A	0	50	76

(\*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN5840A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	8	*60-65	*120-122
PMAD4094A	8	60	90
PMAD4095A	8	60	90

(\*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4602A and body worn PMLN5842A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	8	*70-75	140
PMAD4094A	8	70	100
PMAD4095A	8	70	100

(\*) Depending on applicable offered battery

DUT with antenna PMAD4088B with offered battery NNTN8128B, audio PMMN4062A and body worn PMLN5844A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4088B	4	*30-35	*50-55
PMAD4094A	4	30	40
PMAD4095A	4	30	40

(\*) Depending on applicable offered battery

**2.2 Front Side against phantom**  
Not applicable.

**2.3 Back side against phantom**  
Not applicable.

**2.4 Front 2.5cm separation**  
Not applicable

**2.5 Antenna 2.5cm separation**  
Not applicable

**2.6 Back 2.5cm separation**  
Not applicable

**3.0 Other SAR tested positions at the face****3.1 Back of DUT at 2.5cm separation**

Not applicable.

**3.2 Front of DUT at 2.5cm separation**

Refer to section 1.2.

**4.0 Other SAR tested positions at the head****4.1 Left ear touch**

Not applicable.

**4.2 Left ear tilt**

Not applicable.

**4.3 Right ear touch**

Not applicable.

**4.4 Right ear tilt**

Not applicable.

**5.0 Other SAR tested positions at the hand****5.1 Left side**

Not applicable.

**5.2 Right side**

Not applicable.

**5.3 Top side**

Not applicable.

**5.4 Bottom side**

Not applicable.

**5.5 Back side**

Not applicable.

**6.0 DUT and Accessory Photos**

The purpose of these photos is to illustrate the tested accessories. Refer to Part 1 of 2, section 7.0 for additional details on the offered accessories.

**6.1 Antenna dimension and photo(s):**

Antenna Kit #	Physical Length (mm)	Electrical Length
PMAD4088B	210	¼ wave
PMAD4095A	110	¼ wave
PMAD4094A	110	¼ wave
PMAD4093A	110	¼ wave



Top to bottom: PMAD4088B, PMAD4095A, PMAD4094A, PMAD4093A

## 6.2 Body worn accessories



PMLN4651A (Side View)



PMLN4651A (Back View)



PMLN5838A (Front View)



PMLN5838A (Side View)



PMLN5838A (Back View)



**PMLN5840A (front View)**



**PMLN5840A (Side View)**



**PMLN5840A (Back View)**



**PMLN5842A (front View)**



**PMLN5842A (Side View)**



**PMLN5842A (Back View)**



**PMLN5844A (front View)**



**PMLN5844A (Side View)**



**PMLN5844A (Back View)**



**PMLN7008A (Side View)**



**PMLN7008A (Back View)**

**6.3 Battery accessories:****NNTN8128B (front, side and back View)****PMNN4424A (front, side and back View)****PMNN4448A (front, side and back View)****PMNN4489A (front, side and back View)****PMNN4491A (front, side and back View)****PMNN4493A (front, side and back View)**

**6.4 Tested Audio accessories:**



**PMMN4062A**

## 6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	130	65	33
Radio with battery NNTN8128B	130	65	39
Radio with battery PMNN4491A	130	65	39
Radio with battery PMNN4424A	130	65	45
Radio with battery PMNN4448A	130	65	45
Radio with battery PMNN4489A	130	65	45
Radio with battery PMNN4493A	130	65	45

For illustration purposes only - the following figure reflects the location of the device's dimensions.



Note: H = Height; W = Width; D = Depth

$W1 = (\text{Width @ Top}) / (\text{Width @ PTT})$

$D2 = (\text{Depth @ Bottom}) / (\text{Depth @ PTT})$