

**MOTOROLA SOLUTIONS**

CERTIFICATE 2518.05

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

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Report Revision History

Date	Revision	Comments
11/09/2015	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAE4070A with offered battery PMNN4407BR and body worn kit RLN4570A against the phantom without an audio accessory attached. Same position used for other applicable offered antennas, batteries, with or without audio accessories and internal WLAN antenna without an audio accessory (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	0	18	19
PMAE4079A	0	18	15
PMAE4070A	0	*18-22	*19-25
PMAE4071A	0	*18-22	*20-26

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAE4071A with offered battery PMNN4489A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other antennas, batteries and internal WLAN antenna (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	30	37	40
PMAE4079A	30	37	47
PMAE4070A	30	37	40
PMAE4071A	30	37	40

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 PMAE4070A with offered battery PMNN4407BR, audio PMMN4024A, and body worn kit HLN6602A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna without an audio accessory (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	5	19	20
PMAE4079A	*5-7	*19-23	*17-19
PMAE4070A	*5-7	*18-23	*19-25
PMAE4071A	*5-7	*19-23	*20-26

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMMN4024A, and body worn kit RLN4815A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna without an audio accessory (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	12	33	36
PMAE4079A	12	33	37
PMAE4070A	12	33	36
PMAE4071A	*12-15	*33-38	*38-40

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMMN4024A, and body worn kit PMLN7008A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna without an audio accessory (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	29	38
PMAE4079A	8	29	45
PMAE4070A	8	29	38
PMAE4071A	*7-8	*29-34	*38-45

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4407BR, audio PMMN4024A, and body worn kit PMLN4651A. Same position used for the other applicable offered antennas, batteries and internal WLAN antenna without an audio accessory (see table below).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	29	40
PMAE4079A	8	29	45
PMAE4070A	8	29	38
PMAE4071A	*7-8	*29-33	*38-42

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A with offered battery PMNN4488A, audio PMMN4024A and body worn PMLN7296A. Same position used for the other applicable offered antennas and internal WLAN antenna without an audio accessory. No optional battery offered with this body worn.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4069A	8	34	42
PMAE4079A	8	35	52
PMAE4070A	8	34	42
PMAE4071A	8	34	45

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
PMAE4079A	150	¼ wave
PMAE4070A	90	¼ wave
PMAE4069A	90	¼ wave
PMAE4071A	90	¼ wave



Top to Bottom: PMAE4079A, PMAE4070A, PMAE4069A, PMAE4071A

6.2 Body worn accessories



RLN4570A



PMLN7008A
Back View

HLN6602A



PMLN7008A
Side View

RLN4815A



PMLN4651A
Side View



PMLN4651A
Back view



PMLN7296A
Back View



PMLN7296A
Side view

6.3 Battery accessories:

PMNN4493A
Front and Side View



PMNN4409BR
Front and Side View



PMNN4412A
Front and Side View



PMNN4406BR
Front and Side View



PMNN4407BR
Front and Side View



NNTN8560A
Front and Side View



PMNN4448AR
Front and Side View



PMNN4435A
Front and Side View



NNTN8129A
Front and Side View



PMNN4491A
Front and Side View



PMNN4489A
Front and Side View



PMNN4463A
Front and Side View



PMNN4488A
Front, Back, and Side View

6.4 Audio accessories:



PMMN4024A



RMN5137A



PMLN5097A



PMLN5973A



PMLN5275C

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	134	65	33
Radio with battery PMNN4493A	134	65	45
Radio with battery PMNN4409BR	134	65	45
Radio with battery PMNN4412A	134	65	45
Radio with battery PMNN4406BR	134	65	39
Radio with battery PMNN4407BR	134	65	39
Radio with battery NNTN8560A	134	65	45
Radio with battery PMNN4448AR	134	65	45
Radio with battery PMNN4435A	134	65	45
Radio with battery NNTN8129A	134	65	45
Radio with battery PMNN4491A	134	65	39
Radio with battery PMNN4489A	134	65	45
Radio with battery PMNN4463A	134	65	45
Radio with battery PMNN4488A	134	65	45

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



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

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

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