

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

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

Motorola Solutions Malaysia Sdn Bhd (Innoplex)

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Approval Date: 6/8/2016

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Report Revision History

Date	Revision	Comments
5/20/2016	A	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna NAR6593A with offered battery NNTN7034B and body worn HLN6875A against the phantom without an audio accessory attached. Same position used for other applicable batteries, with or without audio accessories and internal WLAN antenna (without audio accessory attached).



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6593A	*0-2	*43-46	*76-88

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna NAR6593A with offered battery PMNN4485A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6593A	28	*35-39	*50-55

(*) Depending on applicable offered battery

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 NAR6593A with offered battery PMNN4403B, audio NNTN8203A and body worn PMLN6802A. Same position used for the other applicable offered 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
NAR6593A	0	*52-56	*91-95

(*) Depending on applicable offered battery

DUT with antenna NAR6593A with offered battery PMNN4403B, audio NNTN8203A and body worn PMLN5657B w/ RLN6487A & RLN6488A. Same position used for the other applicable offered 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
NAR6593A	0	55	101

DUT with antenna NAR6593A with offered battery PMNN4485A, audio NNTN8203A and body worn PMLN5658B w/ RLN6487A & RLN6488A. Same position used for the other applicable offered 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
NAR6593A	0	61	105

DUT with antenna NAR6593A with offered battery PMNN4494A, audio NNTN8203A and body worn PMLN5659B w/ RLN6487A & RLN6488A. Same position used for the other applicable offered 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
NAR6593A	0	53	83

DUT with antenna NAR6593A with offered battery NNTN7037A, audio NNTN8203A and body worn PMLN5660B w/ RLN6487A & RLN6488A. 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
NAR6593A	0	56	95

DUT with antenna NAR6593A with offered battery NNTN7034B, audio NNTN8203A and body worn PMLN5709A w/ HLN6875A. PMLN5709A carry holder must used together with HLN6875A belt clip. Same position used for the other applicable offered 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
NAR6593A	*0-2	60	*101-114

(*) Depending on applicable offered battery

DUT with antenna NAR6593A with offered battery NNTN8921A, audio NNTN8203A and body worn PMLN5659B w/ AY000223A01. Same position used for the other applicable offered 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
NAR6593A	0	53	83

DUT with antenna NAR6593A with offered battery NNTN8921A, audio NNTN8203A and body worn PMLN5659B w/ NTN5243A. Same position used for the other applicable offered 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
NAR6593A	0	53	83

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

Back of DUT with antenna NAR6593A with offered battery PMNN4485A separated 2.5cm from the phantom without an audio accessory attached. Same position used for other internal WLAN antenna and batteries.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6593A	28	40	44

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
NAR6593A	200	¼ wave



NAR6593A

6.2 Body worn accessories



HLN6875A (Front View)



HLN6875A (Side View)



HLN6875A (Back View)



PMLN6802A (Front View)



PMLN6802A (Side View)



PMLN6802A (Back View)



PMLN5657B (front View)



PMLN5657B (Side View)



PMLN5657B (Back View)



PMLN5658B (front View)



PMLN5658B (Side View)



PMLN5658B (Back View)



PMLN5659B (front View)



PMLN5659B (Side View)



PMLN5659B (Back View)



PMLN5660B (front View)



PMLN5660B (Side View)



PMLN5660B (Back View)



**PMLN5709A w/ HLN6875A
(front View)**



**PMLN5709A w/ HLN6875A
(Side View)**



**PMLN5709A w/ HLN6875A
(Back View)**



AY000223A01



RLN6487A & RLN6488A



NTN5243A

6.3 Battery accessories:
(Short batteries with front and side view)



NNTN7038B



PMNN4403B



NNTN8930A



PMNN4486A



PMNN4485A

(Long batteries with front and side view)



NNTN7034B



PMNN4487A



NNTN8921A



PMNN4494A



NNTN7037A



NNTN7573A

6.4 Tested Audio accessories:



NNTN8203A

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	139	76	40
Radio with battery NNTN7038B	146	76	41
Radio with battery PMNN4486A	146	76	41
Radio with battery NNTN8930A	146	76	41
Radio with battery PMNN4485A	146	76	36
Radio with battery PMNN4403B	146	76	36
Radio with battery NNTN7034B	190	76	42
Radio with battery NNTN8921A	190	76	42
Radio with battery PMNN4494A	190	76	42
Radio with battery PMNN4487A	190	76	42
Radio with battery NNTN7573A	195	76	42
Radio with battery NNTN7037A	195	76	42

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



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

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

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