



MOTOROLA



ACCREDITED
TESTING CERT # 2518.01

Exhibit 7B: SAR Test Report Photographs

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Signature on file
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Approval Date: 11/22/10

Report Revision History

Date	Revision	Comments
11/18/10	O	Initial release

1.0 Highest SAR Test Position per body location

1.1 Body

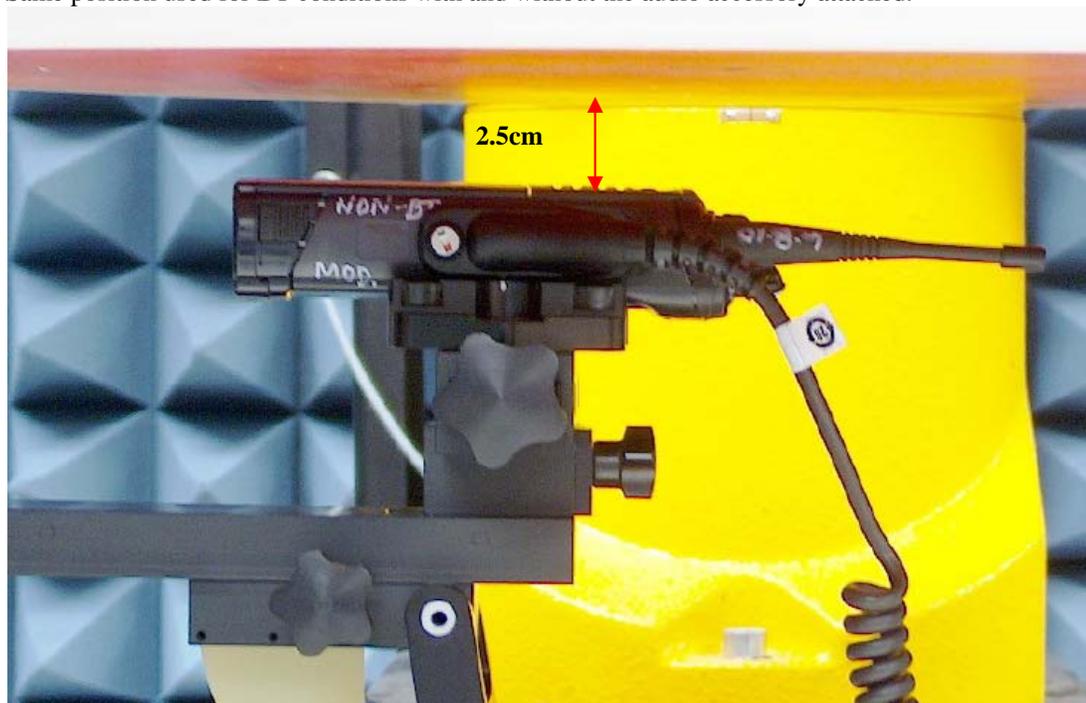
DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and belt clip NTN8266B against the phantom. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used for BT conditions with and without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	9	26	33
NAF5085A	9	26	39

1.2 Face

DUT w/ front side separated 2.5cm from phantom with antenna NAR6595A and battery PMNN4403A. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used for BT conditions with and without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	26	35	43
NAF5085A	26	35	49

1.3 Head

Not applicable.

1.4 Hand

Not applicable.

2.0 Other SAR tested positions at the body

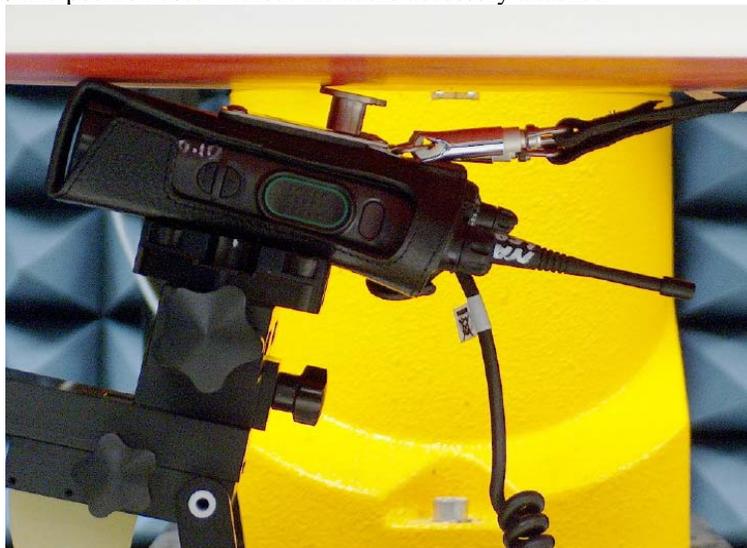
2.1 Body worn

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5657A against the phantom. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	14	75	104
NAF5085A	19	71	126

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5657A back (w/o belt loop) against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	<1	51	74
NAF5085A	<1	59	100

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5657A accessory side (w/o belt loop) against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	<1	25	49

NAF5085A	<1	25	74
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DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5657A PTT side against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	2	63	73
NAF5085A	2	63	83

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5658A against the phantom. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	<1	60	87

NAF5085A	<1	60	119
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DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5658A against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	<1	60	90
NAF5085A	<1	61	124

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5658A accessory side against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	<1	25	51
NAF5085A	<1	25	74

DUT w/ antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A, and body worn PMLN5658A PTT side against the phantom with carry strap NTN5243A attached. Similar position used with other offered battery NNTN7038A and antenna NAF5085A. Same position used without the audio accessory attached.



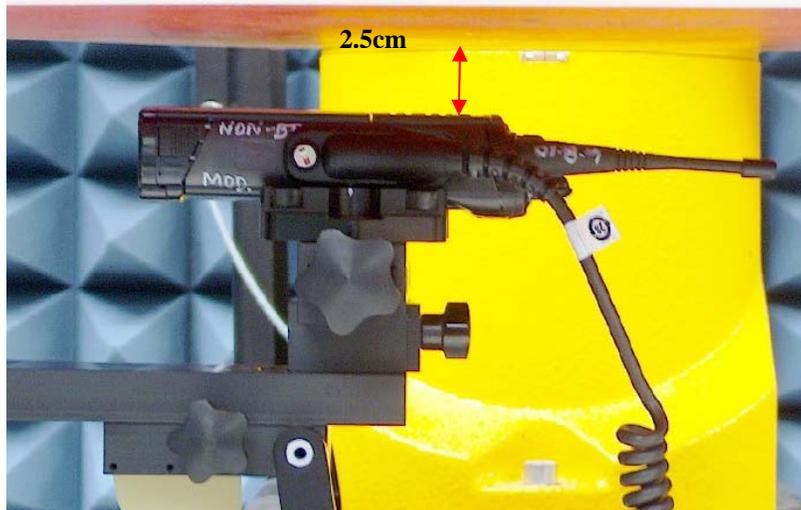
Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	2	63	72
NAF5085A	2	63	83

2.2 Front Side against phantom
Not applicable.

2.3 Back side against phantom
Not applicable.

2.4 Front 2.5cm separation

DUT w/ front side separated 2.5cm from phantom: antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A. Similar position used with other offered battery NNTN7038A and antenna NAF5085A.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	26	37	45
NAF5085A	26	34	48

2.5 Antenna 2.5cm separation

DUT w/ back of DUT facing phantom and antenna at 2.5cm from the phantom with antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A. Similar position used with other offered battery NNTN7038A and antenna NAF5085A.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	11	25	25
NAF5085A	21	25	25

2.6 Back 2.5cm separation

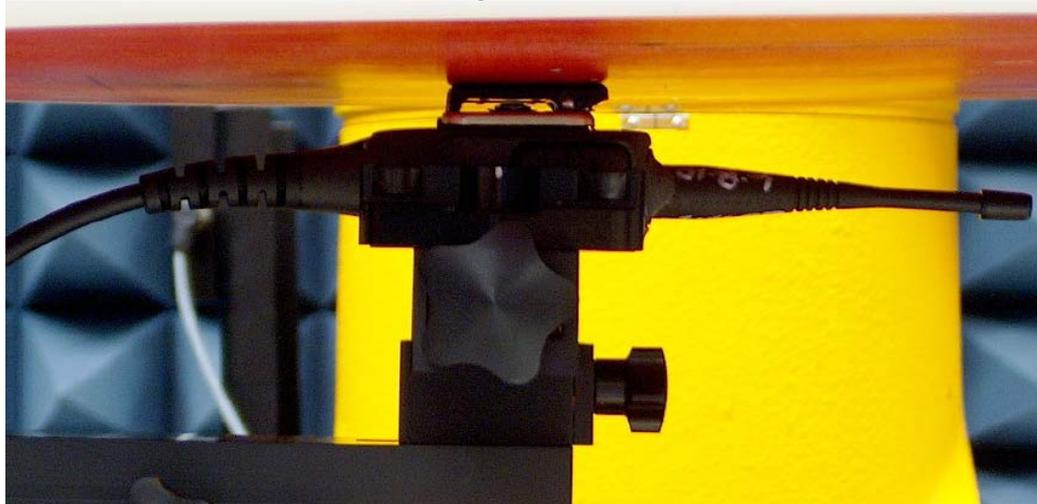
DUT back facing phantom with 2.5cm separation from the phantom with antenna NAR6595A, battery PMNN4403A, audio cable HMN4104A. Similar position used with other offered battery NNTN7038A and antenna NAF5085A



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	27	41	44
NAF5085A	29	41	49

2.7 PSM

PSM PMMN4059A with belt clip 4205823V01 against phantom with antenna NAR6595A, battery PMNN4403A (attached to host radio). Similar position used with the other offered PSMs PMMN4060A and PMMN4061A as well as with offered battery NNTN7038A attached to host radio.

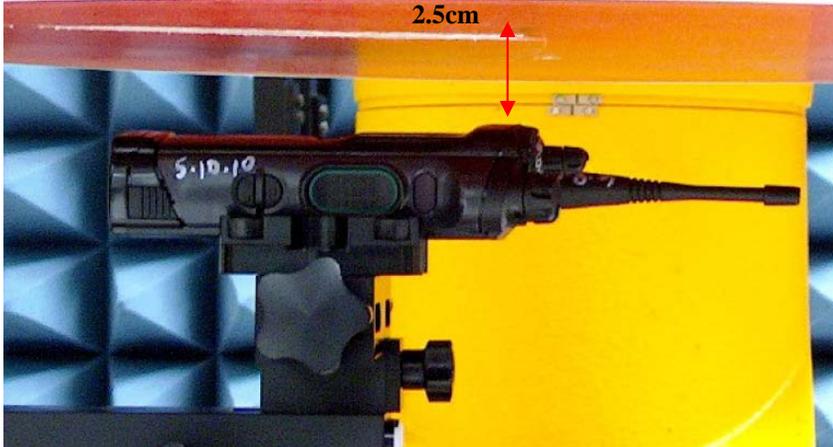


Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	11	20	28

3.0 Other SAR tested position at the face

3.1 Back of DUT at 2.5cm separation

DUT w/ back separated 2.5cm from phantom with highest SAR producing antenna NAR6595A and battery PMNN4403A. Similar position used with other offered antenna NAF5085A. Same position used for BT assessment.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	29	41	44
NAF5085A	29	41	49

3.2 PSM

Front of PSM PMMN4059A separated 2.5cm from the phantom with antenna NAR6595A, battery PMNN4403A (attached to host radio). Similar position used with the other offered PSMs PMMN4060A and PMMN4061A as well as with offered battery NNTN7038A attached to host radio.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAR6595A	27	35	41

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.

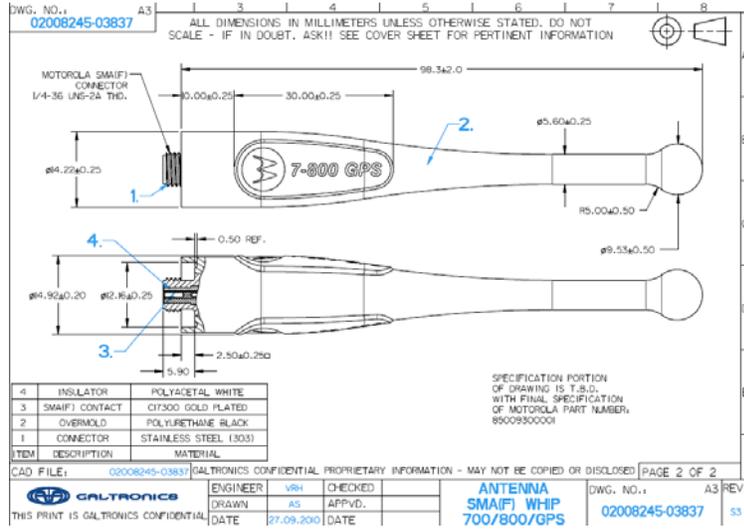
6.0 DUT and Accessory Photos

The purpose of these photos is to illustrate the offered antenna and applicable accessories.

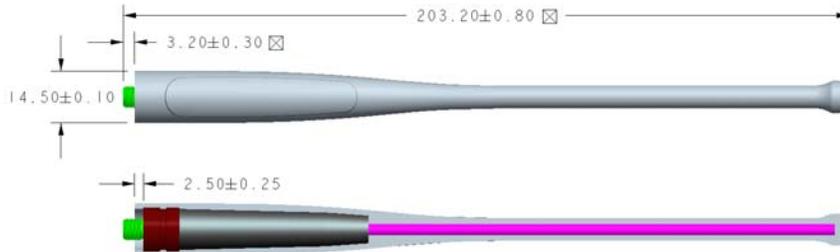
6.1 Antenna dimension and photo:

Refers to 6.2 “Body worn accessories” section, there is only one antenna offered for this product.

Antenna Kit #	Length (mm)	Diameter (mm)
NAR6595A	101.7	4.92



Antenna Kit #	Length (mm)	Diameter (mm)
NAF5085A	203	14.5



Offered antennas: NAF5085A(whip) and NAR6595A (stubby)

6.2 Body worn accessories



DUT Back View
Belt Clip NTN8266B
Battery PMNN4403A



DUT Side View
Belt Clip NTN8266B
Battery PMNN4403A



NTN5243A Carry strap



DUT Back View
PMLN5657A
Battery PMNN4403A



DUT Side View
PMLN5657A
Battery PMNN4403A



DUT Front View
PMLN5657A
Battery PMNN4403A



DUT Back View
PMLN5658A
Battery PMNN4403A



DUT Side View
PMLN5658A
Battery PMNN4403A



DUT Front View
PMLN5658A
Battery PMNN4403A

6.3 Tested audio accessories



HMN4104A
RSM



PMMN4059A
PSM (18 inch cable)

PMMN4060A
PSM (24 inch cable)

PMMN4061A
PSM (30 inch cable)

6.4 Tested battery accessories



NNTN7038A
Front view

PMNN4403A
Front view



NNTN7038A
Back view

PMNN4403A
Back view



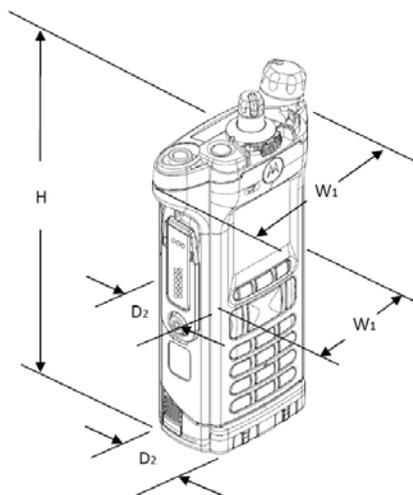
NNTN7038A
Side view

PMNN4403A
Side view

6.4 DUT Dimensions:

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	139.7	75.7 / 60.2	40.5 / 34.7
Radio with battery PMNN4403A	146.3	75.7 / 60.2	41.8 / 34.7

The following figure represent the sample of the device's dimensions.



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

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

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