

**MOTOROLA SOLUTIONS**

TESTING CERT # 2518.05

Exhibit 7B: SAR Test Report Photographs**Enterprise Mobility Solutions****EME Test Laboratory**

Motorola Solutions Malaysia Sdn Bhd (455657-H)

Customer Solution Center

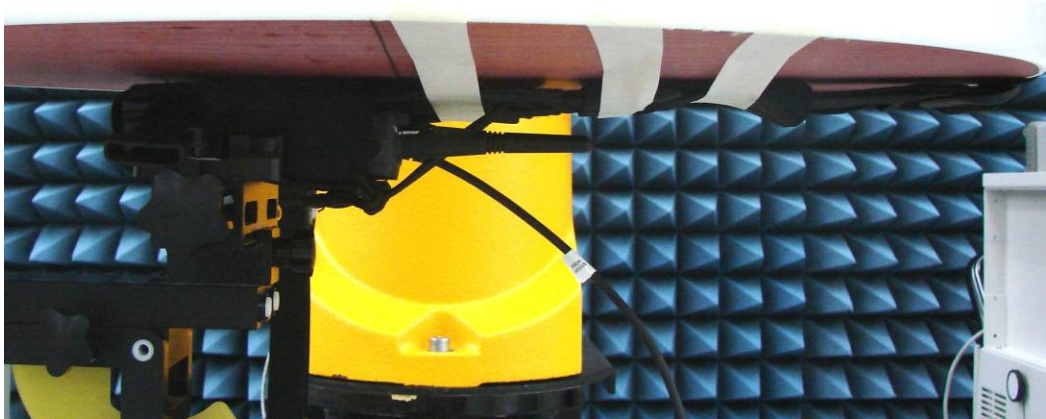
Plot 2, Bayan Lepas Technoplex Industrial Park,
Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.**Deanna Zakharia**
EMS EME Lab Senior Resource Manager,
Laboratory Director**Approval Date: 4/17/2013**

Report Revision History

Date	Revision	Comments
04/09/2013	O	Initial release

1.0 Highest SAR Test Position per body location

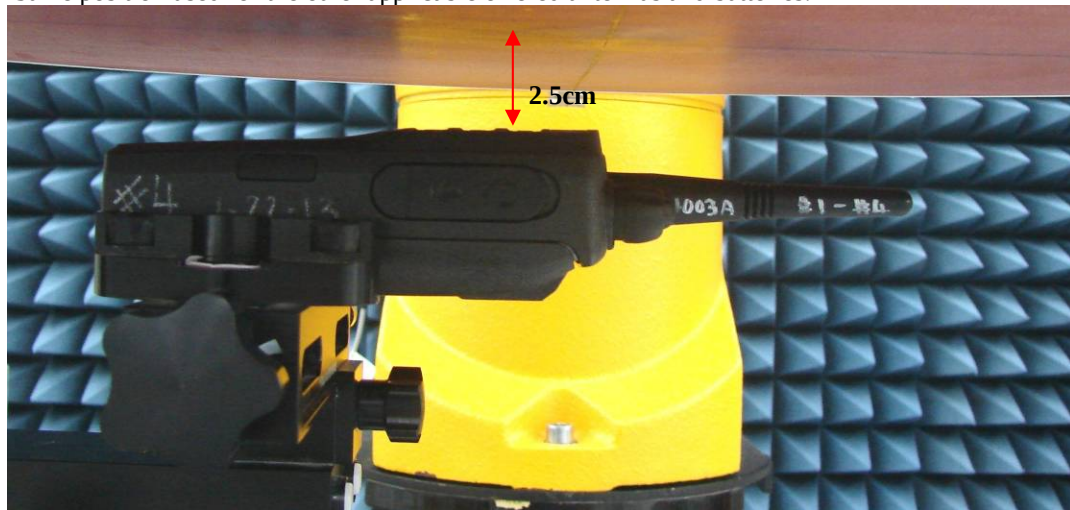
- 1.1 Body
- DUT w/ antenna PMAE4003A with offered battery PMNN4253AR, audio cable PMLN6539A and body worn HLN6602A against the phantom. Same position used for the other applicable offered audio accessories.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAE4003A	PMNN4253AR	3	22	27

1.2 Face

DUT w/ front side separated 2.5cm from phantom with antenna PMAE4003A and battery NNTN4497CR
Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	PMNN4254AR	33	36	44
PMAE4016A	PMNN4254AR	33	36	44
NAE6522AR	PMNN4254AR	33	36	37
PMAE4003A	PMNN4254AR	33	36	39
PMAE4002A	PMNN4254AR	33	36	39
NAE6521A	PMNN4254AR	33	36	37
PMAE4003A	PMNN4072A	33	36	39
	NNTN4851A	33	36	39
	NNTN4852A	33	36	39
	NNTN4970A	33	36	39
	NNTN4497CR	33	36	39
	PMNN4251AR	33	36	39
	PMNN4252AR	33	36	39
	PMNN4253AR	33	36	39

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 NAE6522AR, battery PMNN4253AR, audio cable PMMN4013A and body worn RLN5644A against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	2	34	65
PMAE4016A	NNTN4970A	2	34	65
NAE6522AR	NNTN4970A	2	34	45
PMAE4003A	NNTN4970A	2	34	50
PMAE4002A	NNTN4970A	2	34	50
NAE6521A	NNTN4970A	2	34	48
NAE6522AR	PMNN4072A	3	34	43
	NNTN4851A	3	34	43
	NNTN4852A	3	37	45
	NNTN4497CR	3	37	45
	PMNN4251AR	3	37	45
	PMNN4252AR	3	37	45
	PMNN4253AR	3	37	45
	PMNN4254AR	3	37	45

DUT w/antenna NAE6522AR, battery NNTN4970A, audio cable PMMN4013A and body worn HLN8255B against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	8	33	56
PMAE4016A	NNTN4970A	8	33	56
NAE6522AR	NNTN4970A	8	33	40
PMAE4003A	NNTN4970A	8	33	45
PMAE4002A	NNTN4970A	8	33	45
NAE6521A	NNTN4970A	8	33	40
NAE6522AR	PMNN4072A	8	33	38
	NNTN4851A	8	33	38
	NNTN4852A	8	33	38
	NNTN4497CR	8	34	40
	PMNN4251AR	8	34	40
	PMNN4252AR	8	34	40
	PMNN4253AR	8	33	40
	PMNN4254AR	8	34	40

DUT w/antenna NAE6522AR, battery NNTN4851A, audio cable PMMN4013A and body worn RLN5383A against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	2	61	110
PMAE4016A	NNTN4970A	2	61	110
NAE6522AR	NNTN4970A	2	61	82
PMAE4003A	NNTN4970A	2	61	84
PMAE4002A	NNTN4970A	2	61	84
NAE6521A	NNTN4970A	2	61	82
NAE6522AR	PMNN4072A	2	61	82
	NNTN4851A	2	61	82
	NNTN4852A	2	61	77
	NNTN4497CR	2	61	77
	PMNN4251AR	2	61	77
	PMNN4252AR	2	61	77
	PMNN4253AR	2	61	77
	PMNN4254AR	2	61	77

DUT w/antenna NAE6522AR, battery NNTN4970A, audio cable PMMN4013A and body worn HLN9701B against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	0	34	50
PMAE4016A	NNTN4970A	0	34	50
NAE6522AR	NNTN4970A	0	34	37
PMAE4003A	NNTN4970A	0	34	43
PMAE4002A	NNTN4970A	0	34	43
NAE6521A	NNTN4970A	0	34	43
NAE6522AR	PMNN4072A	0	34	37
	NNTN4851A	0	34	37
	NNTN4852A	0	34	37
	NNTN4497CR	0	34	37
	PMNN4251AR	0	34	37
	PMNN4252AR	0	34	37
	PMNN4253AR	0	34	37
	PMNN4254AR	0	34	37

DUT w/antenna PMAE4003A, battery NNTN4851A, audio cable PMMN4013A and body worn RLN5385B against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	8	60	107
PMAE4016A	NNTN4970A	8	60	107
NAE6522AR	NNTN4970A	8	60	75
PMAE4003A	NNTN4970A	8	60	85
PMAE4002A	NNTN4970A	8	60	85
NAE6521A	NNTN4970A	8	60	75
PMAE4003A	PMNN4072A	8	60	85
	NNTN4851A	8	60	85
	NNTN4852A	8	60	85
	NNTN4497CR	8	60	85
	PMNN4251AR	8	60	85
	PMNN4252AR	8	60	85
	PMNN4253AR	8	60	85
	PMNN4254AR	8	60	85

DUT w/antenna NAE6522AR, battery PMNN4253AR, audio cable PMMN4013A and body worn RLN4815A against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	8	40	60
PMAE4016A	NNTN4970A	8	40	60
NAE6522AR	NNTN4970A	8	40	43
PMAE4003A	NNTN4970A	8	40	47
PMAE4002A	NNTN4970A	8	40	47
NAE6521A	NNTN4970A	8	40	43
NAE6522AR	PMNN4072A	8	40	43
	NNTN4851A	8	41	44
	NNTN4852A	8	41	44
	NNTN4497CR	8	40	43
	PMNN4251AR	8	40	43
	PMNN4252AR	8	41	44
	PMNN4253AR	8	40	43
	PMNN4254AR	8	41	44

DUT w/antenna PMAE4003A, battery NNTN4851A, audio cable PMMN4013A and body worn RLN5383B/NTN5243A with fixed belt loop against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	2	61	110
PMAE4016A	NNTN4970A	2	61	110
NAE6522AR	NNTN4970A	2	61	82
PMAE4003A	NNTN4970A	2	61	84
PMAE4002A	NNTN4970A	2	61	84
NAE6521A	NNTN4970A	2	61	82
PMAE4003A	PMNN4072A	2	61	84
	NNTN4851A	2	62	87
	NNTN4852A	2	62	87
	NNTN4497CR	2	62	87
	PMNN4251AR	2	62	87
	PMNN4252AR	2	62	87
	PMNN4253AR	2	61	84
	PMNN4254AR	2	62	87

DUT w/antenna PMAE4016A, battery PMNN4072A, audio cable PMMN4013A and body worn HLN9701B/NTN5243A with fixed belt loop against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	0	34	50
PMAE4016A	NNTN4970A	0	34	50
NAE6522AR	NNTN4970A	0	34	37
PMAE4003A	NNTN4970A	0	34	43
PMAE4002A	NNTN4970A	0	34	43
NAE6521A	NNTN4970A	0	34	43
PMAE4016A	PMNN4072A	0	34	50
	NNTN4851A	0	34	50
	NNTN4852A	0	34	50
	NNTN4497CR	0	34	50
	PMNN4251AR	0	34	50
	PMNN4252AR	0	34	50
	PMNN4253AR	0	34	50
	PMNN4254AR	0	34	50

DUT w/antenna NAE6522AR, battery PMNN4072A, audio cable PMMN4013A and body worn RLN5385B/NTN5243A without fixed belt loop against the phantom. Same position used for the other applicable offered antennas and batteries.



Antenna kit #	Battery kit #	Separation Distances (mm)		
		@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
NAE6483AR	NNTN4970A	0	51	97
PMAE4016A	NNTN4970A	0	51	97
NAE6522AR	NNTN4970A	0	51	67
PMAE4003A	NNTN4970A	0	50	76
PMAE4002A	NNTN4970A	0	50	76
NAE6521A	NNTN4970A	0	50	76
NAE6522AR	PMNN4072A	0	52	69
	NNTN4851A	0	52	69
	NNTN4852A	0	54	70
	NNTN4497CR	0	54	70
	PMNN4251AR	0	54	70
	PMNN4252AR	0	54	70
	PMNN4253AR	0	50	67
	PMNN4254AR	0	50	67

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 offered accessories. Refer to Part 1 of 2, section 7.0 for more details.

6.1 Antenna dimension and photo(s):

No.	Antenna Kit #	Physical Length (cm)	Electrical Length
1	NAE6522AR	7.5	1/4 wave
2	NAE6521A	8	1/4 wave
3	PMAE4002A	9	1/4 wave
4	PMAE4003A	9	1/4 wave
5	NAE6483AR	17	1/4 wave
6	PMAE4016A	17	1/4 wave

Left-Right; 1 to 6



6.2 Body worn accessories:



DUT Back View
RLN5644A Spring Action 2 Inch Belt loop



DUT Side View
RLN5644A Spring Action 2 Inch Belt loop



DUT Back View
HLN8255B Spring Action 3 Inch Belt clip



DUT Side View
HLN8255B Spring Action 3 Inch Belt clip



DUT Back View
RLN5383A ND Leather case with
Belt loop and D-rings



DUT Side View
RLN5383A ND Leather case with
Belt loop and D-rings



DUT Front View
RLN5383A ND Leather case with
Belt loop and D-rings SWFKP



DUT Back View
RLN5385B ND Leather case with
3 Inch Swivel Belt loop



DUT Side View
RLN5385B ND Leather case with
3 Inch Swivel Belt loop



DUT Front View
RLN5385B ND Leather case with
3 Inch Swivel Belt loop



DUT Back View
HLN9701B Nylon case with belt loop & D-rings Belt loop



DUT Side View
HLN9701B Nylon case with belt loop & D-rings Belt loop



DUT Front View
HLN9701B Nylon case with belt loop & D-rings Belt loop



HLN6602A Nylon Chest Pack



HLN9701B with NTN5243A Carry strap



RLN4815A Radio Pack

6.3 Battery accessories:



Left-Right; Back, front and side views: NNTN4497CR



Left-Right; Back, front and side views: NNTN4851A



Left-Right; Back, front and side views: NNTN4852A



Left-Right; Back, front and side views: NNTN4970A



Left-Right; Back, front and side views: NNTN4072A



Left-Right; Back, front and side views: PMNN4251AR



Left-Right; Back, front and side views: PMNN4252AR



Left-Right; Back, front and side views: PMNN4253AR



Left-Right; Back, front and side views: PMNN4254AR

6.4 Audio accessories:



PMMN4013A RSM



PMMN4092A RSM (Mag One)



PMLN6531A EarReceiver with In-Line Mic/PTT/VOX switch (Mag One)



PMLN6537A Earset with Boom Mic and In-Line PTT/VOX switch (Mag One)



PMLN6538A Lightweight Headset with Swivel Boom Microphone



PMLN6539A Medium Weight Over-The-Head Dual Muff Headset



PMLN6540A Heavy-Duty Noise Cancelling Boom Mic Headset



PMLN6541A Lightweight Temple Transducer Headset



PMLN6530A 2-Wire Surveillance Kit (Black) with Clear Acoustic Earpiece (less expensive-Palm Garden)

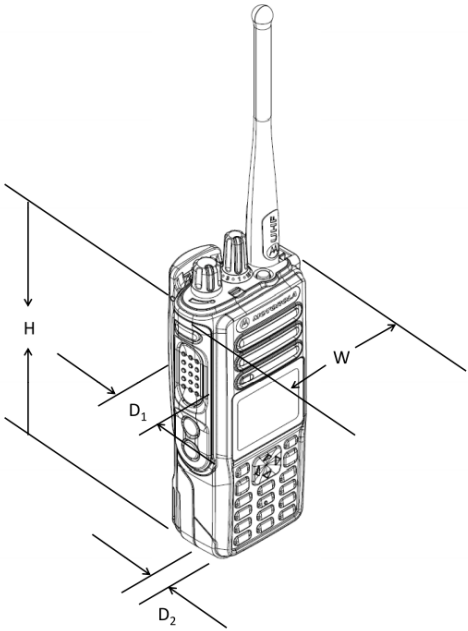


PMMN4013A RSM with RLN4941A Receive only Earpiece w/translucent tube & eartip

6.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	127.7	61.5	22
Radio with battery PMNN4253AR	127.7	61.5	39

For illustration purposes the following figure reflects the location of the device’s dimensions.



Note: H = Height; W = Width; D₁ = Depth w/ battery; D₂ = Depth w/o battery