



CERTIFICATE 2518.05

Exhibit 7B: SAR Test Report Photographs

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Report Revision History

Date	Revision	Comments
12/6/2019	A	Initial release
12/19/2019	B	Indicate 2.5 cm distance for face configuration

1.0 Highest SAR Test Position per body location

1.1 Body

DUT with antenna PMAE4071A, offered battery PMNN4417B and bodyworn RLN4570A positioned against the phantom without an audio accessory attached.

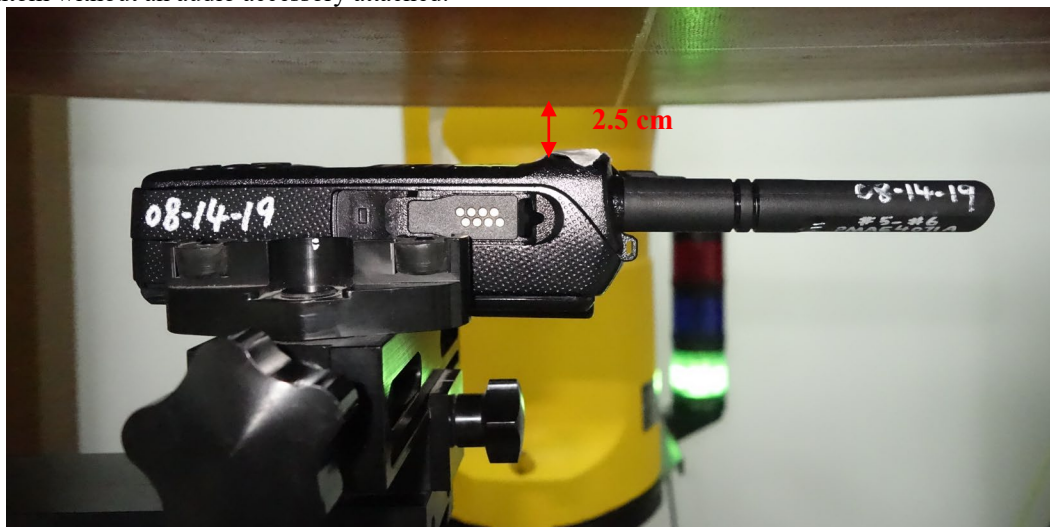


Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	0	27	28
PMAE4070A	0	27	28
PMAE4071A	0	27-34*	28-35*
PMAE4079A	0	27	24

(*) Depending on applicable offered battery

1.2 Face

Front of DUT with antenna PMAE4071A and offered battery PMNN4406B separated 2.5cm from the phantom without an audio accessory attached.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	29	31	36
PMAE4070A	29	31	36
PMAE4071A	29	31	36
PMAE4079A	29	31	42

2.0 Other SAR tested positions at the body

2.1 Positions for each offered Body worn

DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN5866A w/o belt loop w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	0	53	70
PMAE4070A	0	53	70
PMAE4071A	0	53-58*	70-77*
PMAE4079A	0	53	90

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN5870A w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	2	40	48
PMAE4070A	2	40	48
PMAE4071A	2	40-46*	48-55*
PMAE4079A	2	40	68

(*) Depending on applicable offered battery

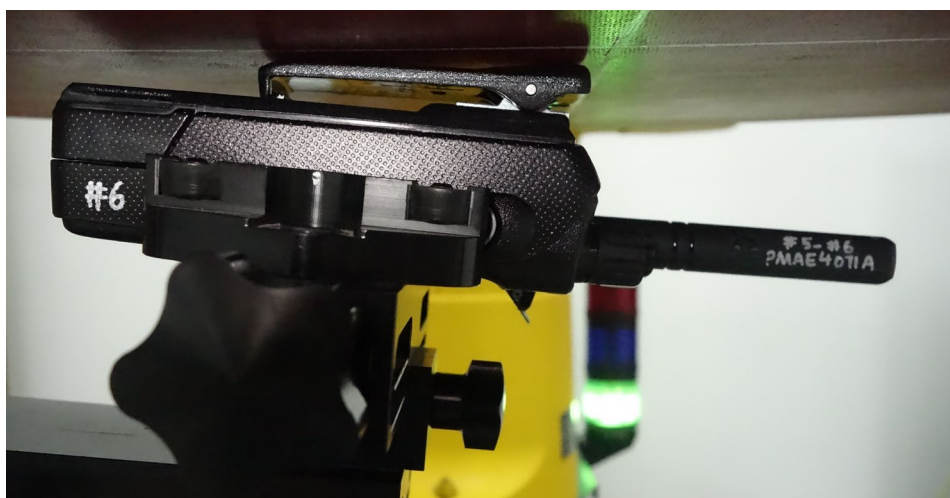
DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN5864A w/ NTN5243A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	0	62	90
PMAE4070A	0	62	90
PMAE4071A	0	62-68*	90-96*
PMAE4079A	0	62	110

(*) Depending on applicable offered battery

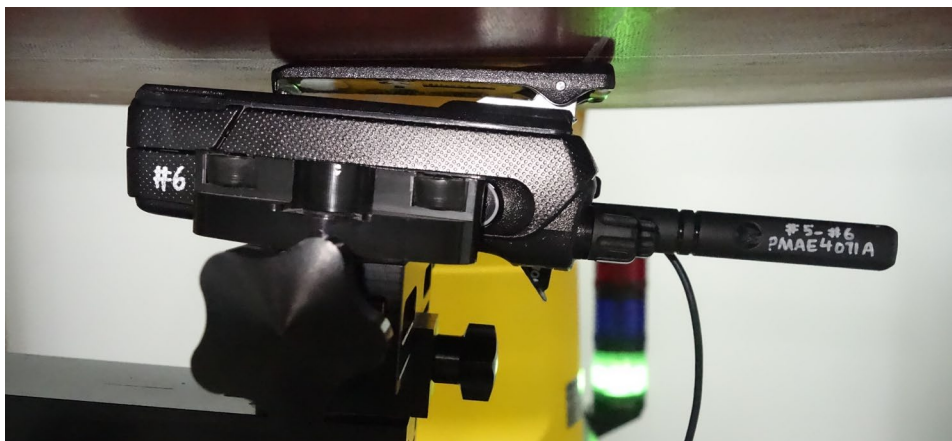
DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN4651A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	8	36	45
PMAE4070A	8	36	45
PMAE4071A	8-9*	36-41*	45-49*
PMAE4079A	8	36	54

(*) Depending on applicable offered battery

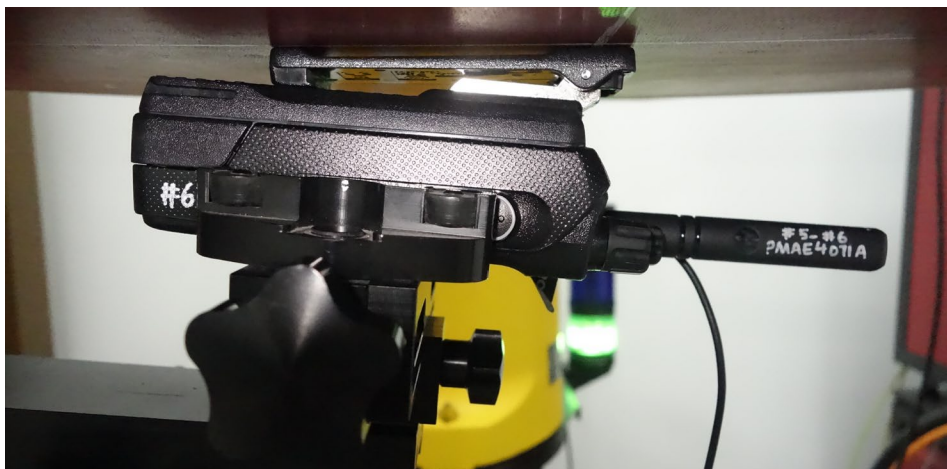
DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN7008A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	7	37	45
PMAE4070A	7	37	45
PMAE4071A	7	37-42*	45-50*
PMAE4079A	7	37	55

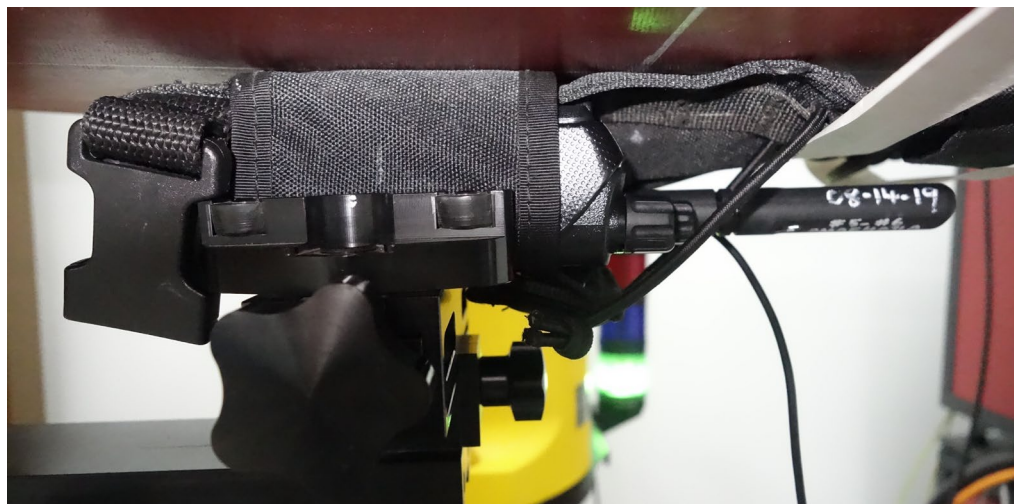
(*) Depending on applicable offered battery

DUT with antenna PMAE4071A, offered battery PMNN4488A, audio PMMN5727A and bodyworn PMLN7296A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	9	43	50
PMAE4070A	9	43	50
PMAE4071A	9	43	50
PMAE4079A	9	43	62

DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn HLN6602A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	8	28	32
PMAE4070A	8	28	32
PMAE4071A	8-10*	28-33*	32-36*
PMAE4079A	8	28	25

(*) Depending on applicable offered battery

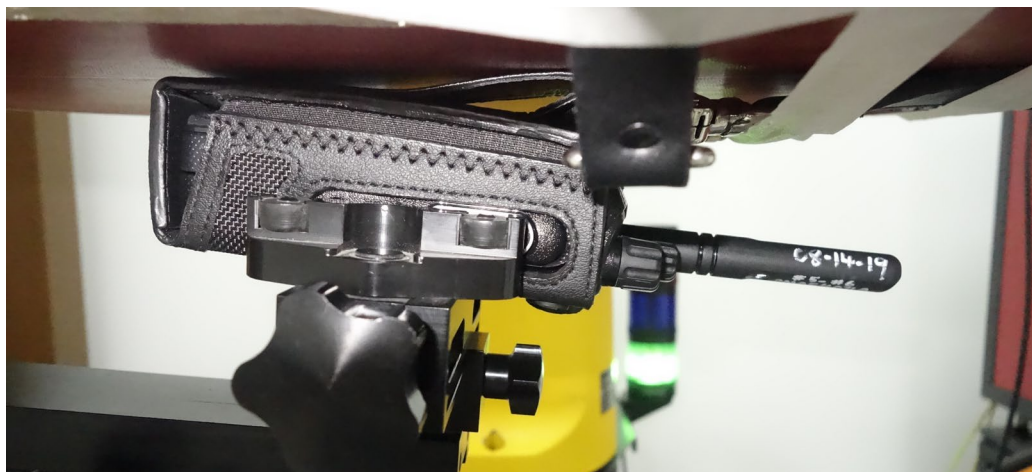
DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn RLN4815A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	20	47	53
PMAE4070A	20	47	53
PMAE4071A	20-24*	47-50*	53-55
PMAE4079A	20	47	57

(*) Depending on applicable offered battery

DUT with antenna PMAE4071A, offered battery PMNN4417B, audio PMMN5727A and bodyworn PMLN5870A w/ RLN6487A w/ RLN6488A positioned against the phantom.



Antenna kit #	Separation Distances (mm)		
	@ bottom surface of DUT	@ base of antenna	@ tip of antenna
PMAE4069A	3	46	58
PMAE4070A	3	46	58
PMAE4071A	3	46-50*.	58-65*
PMAE4079A	3	46	70

(*) Depending on applicable offered battery

3.0 Other SAR tested positions at the face

3.1 Back of DUT at 2.5cm separation

N/A

3.2 Front of DUT at 2.5cm separation

Refer to section 1.2

4.0 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.

4.1 Antenna dimension and photo(s):

Antenna Kit #	Physical Length (mm)	Electrical Length
PMAE4069A	90	$\frac{1}{4}$ wave
PMAE4070A	90	$\frac{1}{4}$ wave
PMAE4071A	90	$\frac{1}{4}$ wave
PMAE4079A	150	$\frac{1}{4}$ wave



Left to Right: PMAE4069A, PMAE4071A, PMAE4070A, PMAE4079A

4.2 Body worn accessories



HLN6602A



RLN4570A



PMLN4651A (back & side view)



PMLN7296A (back & side view)



RLN6487A & RLN6488A
(Tested with PMLN5870A)



NTN5243A
(Tested with PMLN5864A, PMLN5866A, PMLN5870A)



PMLN7008A (back & side view)



RLN4815A



PMLN5866A
(Side, front & back view)



PMLN5864A
(Side, front & back view)



PMLN5870A
(Side, front & back view)

4.3 Battery accessories



PMNN4406B
(Front, side & back view)



PMNN4407B
(Front, side & back view)



PMNN4409B
(Front, side & back view)



PMNN4415A
(Front, side & back view)



PMNN4416B
(Front, side & back view)



PMNN4417B
(Front, side & back view)



PMNN4418B
(Front, side & back view)



PMNN4435A
(Front, side & back view)



PMNN4463A
(Front, side & back view)



PMNN4488A
(Front, side & back view)



PMNN4490A
(Front, side & back view)



PMNN4491B
(Front, side & back view)



PMNN4493A
(Front, side & back view)



PMNN4525A
(Front, side & back view)



PMNN4543A
(Front, side & back view)



PMNN4544A
(Front, side & back view)

4.4 Audio Accessories



PMLN5726A



PMLN5727A



PMLN5731A



PMLN5733A



PMNN6754A



PMLN6757A



PMLN6759A



PMLN6760A



PMLN6761A



PMMN4071AL



PMMN4073A



PMMN4076AL

4.5 DUT Dimensions

	Height (mm)	Width (mm)	Depth (mm)
Radio only (w/o battery)	122	59	31
Radio with battery PMNN4406B	122	59	40
Radio with battery PMNN4407B	122	59	40
Radio with battery PMNN4409B	122	59	45
Radio with battery PMNN4415A	122	59	43
Radio with battery PMNN4416B	122	59	40
Radio with battery PMNN4417B	122	59	40
Radio with battery PMNN4418B	122	59	45
Radio with battery PMNN4435A	122	59	45
Radio with battery PMNN4463A	122	59	45
Radio with battery PMNN4488A	122	59	45
Radio with battery PMNN4490A	122	59	45
Radio with battery PMNN4491B	122	59	40
Radio with battery PMNN4493A	122	59	45
Radio with battery PMNN4525A	122	59	45
Radio with battery PMNN4543A	122	59	45
Radio with battery PMNN4544A	122	59	45

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



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

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

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