




	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

FACE-HELD SAR TEST SETUP PHOTOGRAPHS





DUT with Stub Antenna

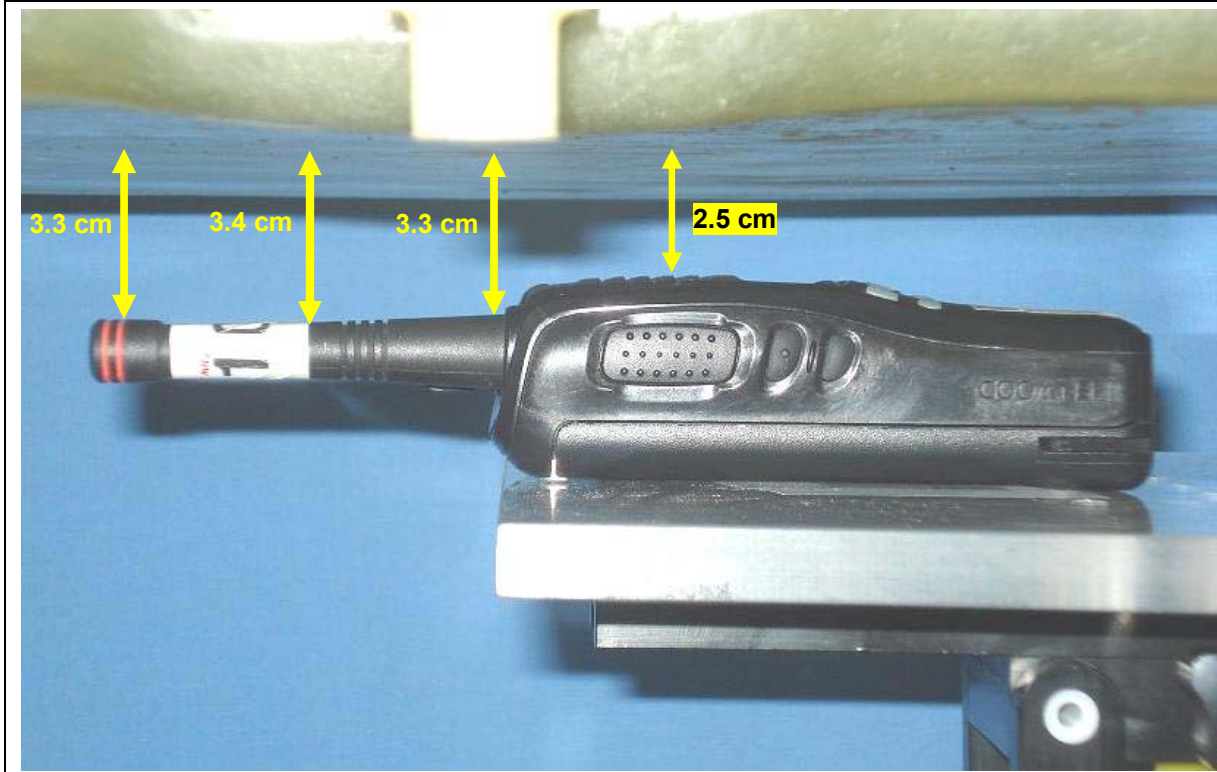


DUT with Whip Antenna

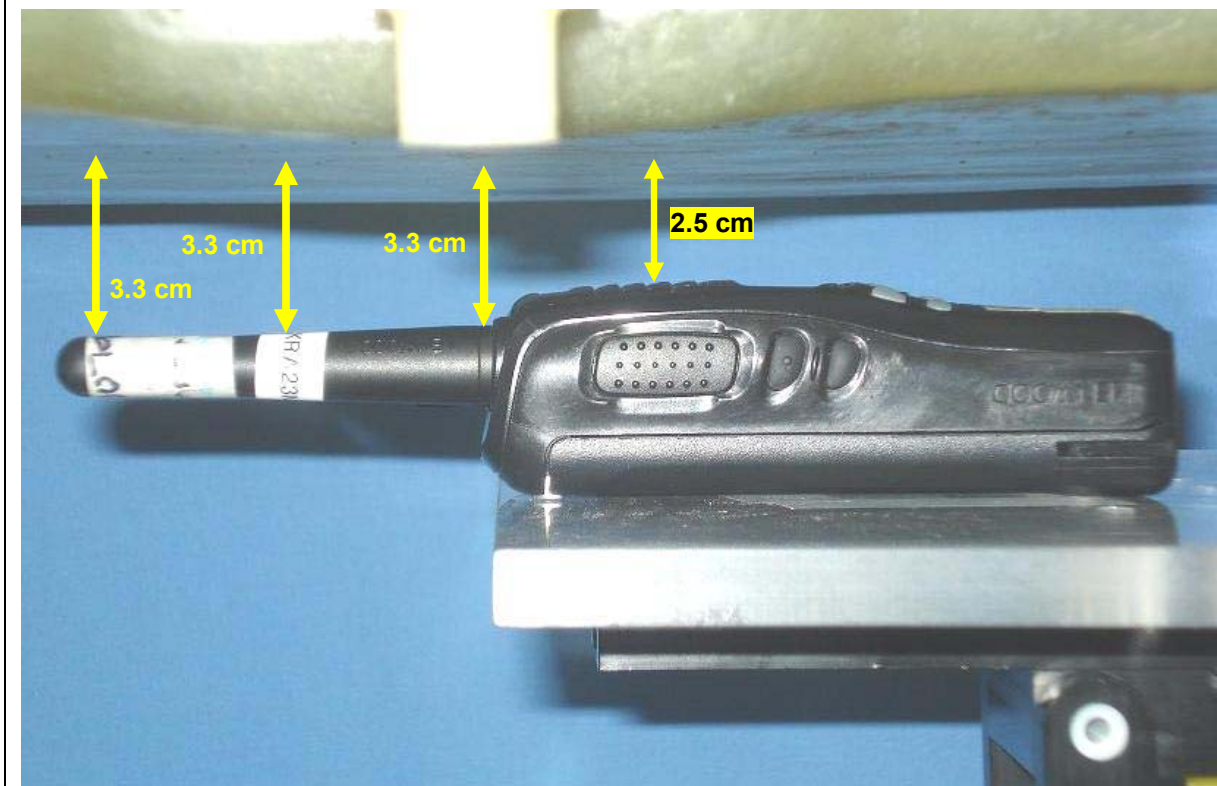
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	Test Report Issue Date August 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

FACE-HELD CONFIGURATION






DUT with Stub Antenna P/N: KRA-17M - 2.5 cm Air-Gap Spacing from Front of DUT (Mic Section) to Phantom

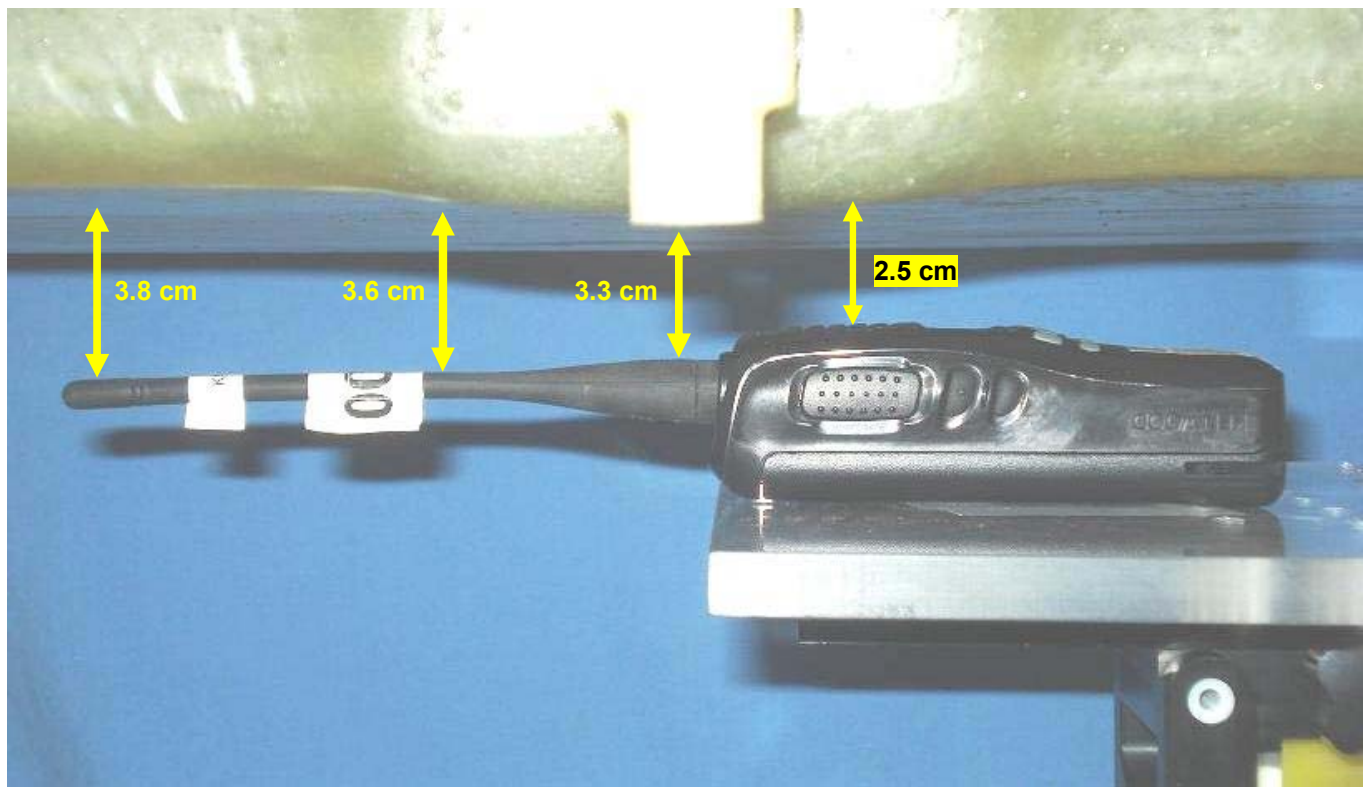


DUT with Stub Antenna P/N: KRA-23M/M3 - 2.5 cm Air-Gap Spacing from Front of DUT (Mic Section) to Phantom

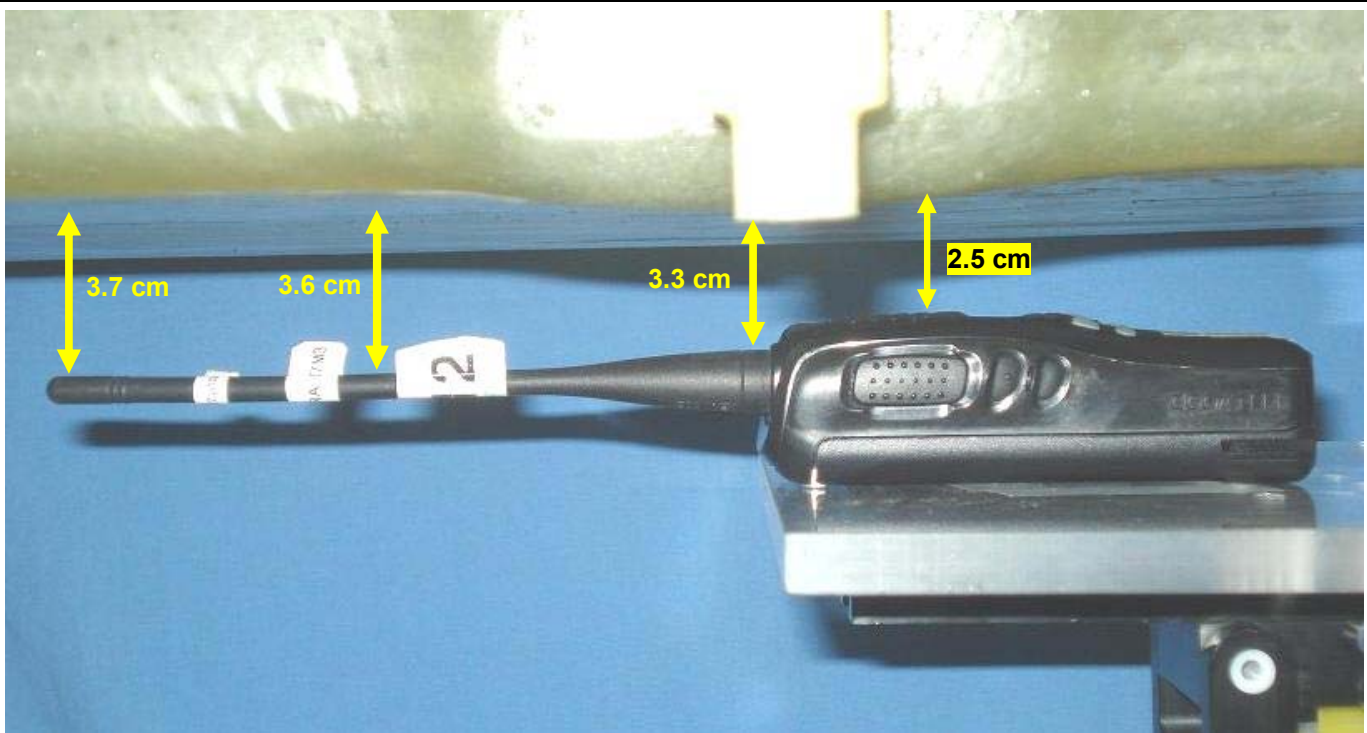
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

FACE-HELD CONFIGURATION





DUT with Whip Antenna P/N: KRA-27M - 2.5 cm Air-Gap Spacing from Front of DUT (Mic Section) to Phantom

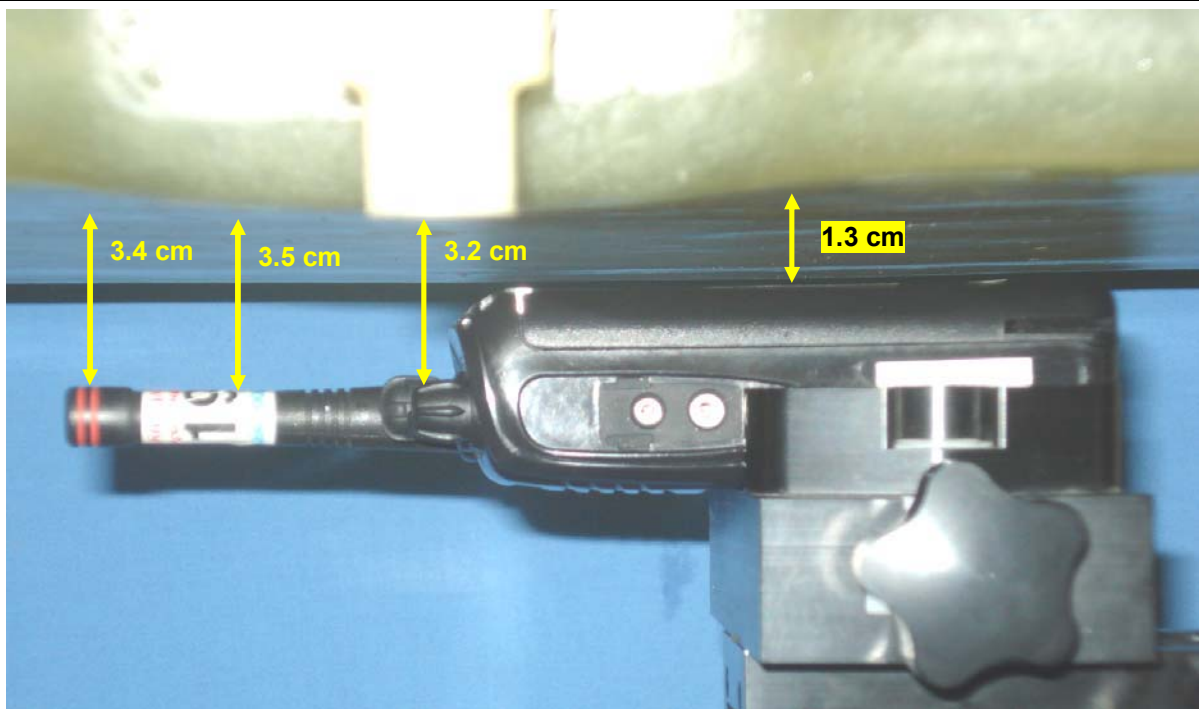


DUT with Whip Antenna P/N: KRA-27M3 - 2.5 cm Air-Gap Spacing from Front of DUT (Mic Section) to Phantom

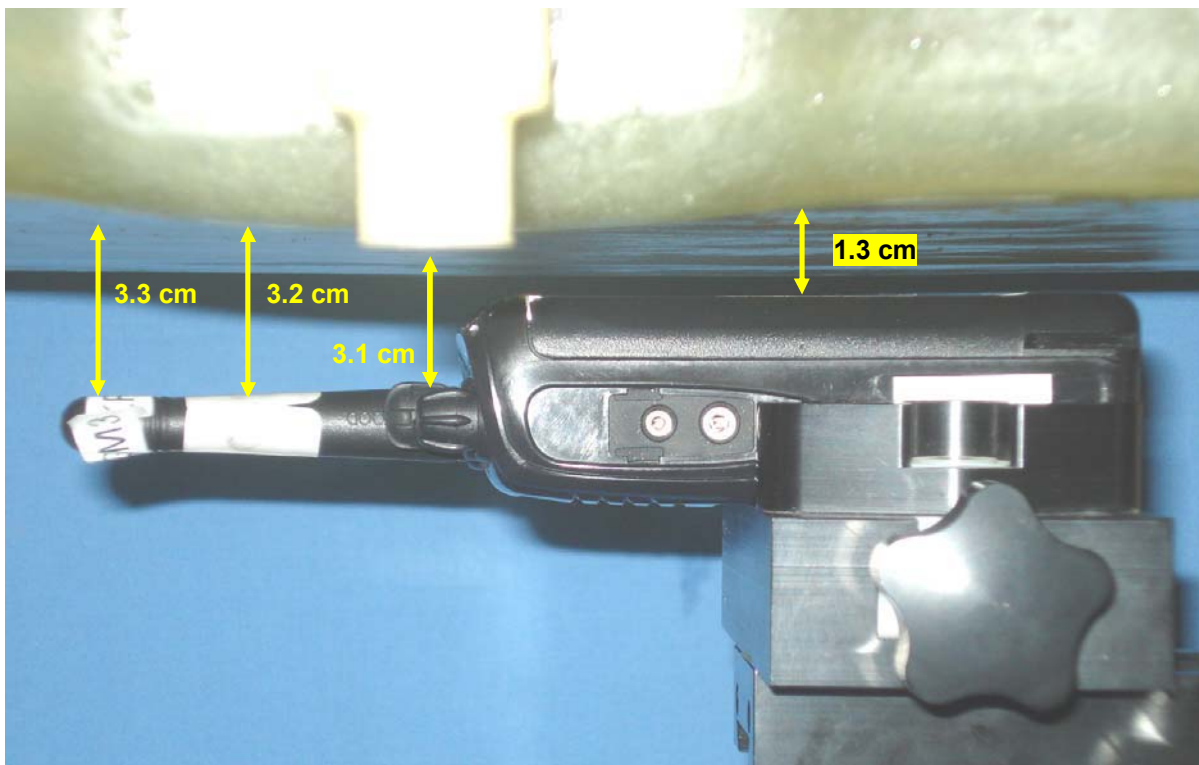
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

“BASELINE” BODY SAR TEST SETUP PHOTOGRAPHS





“Baseline” Test Setup with KRA-17M Stub Antenna (KNB-29N Li-Ion Battery Parallel to Phantom) - 1.3 cm Spacing

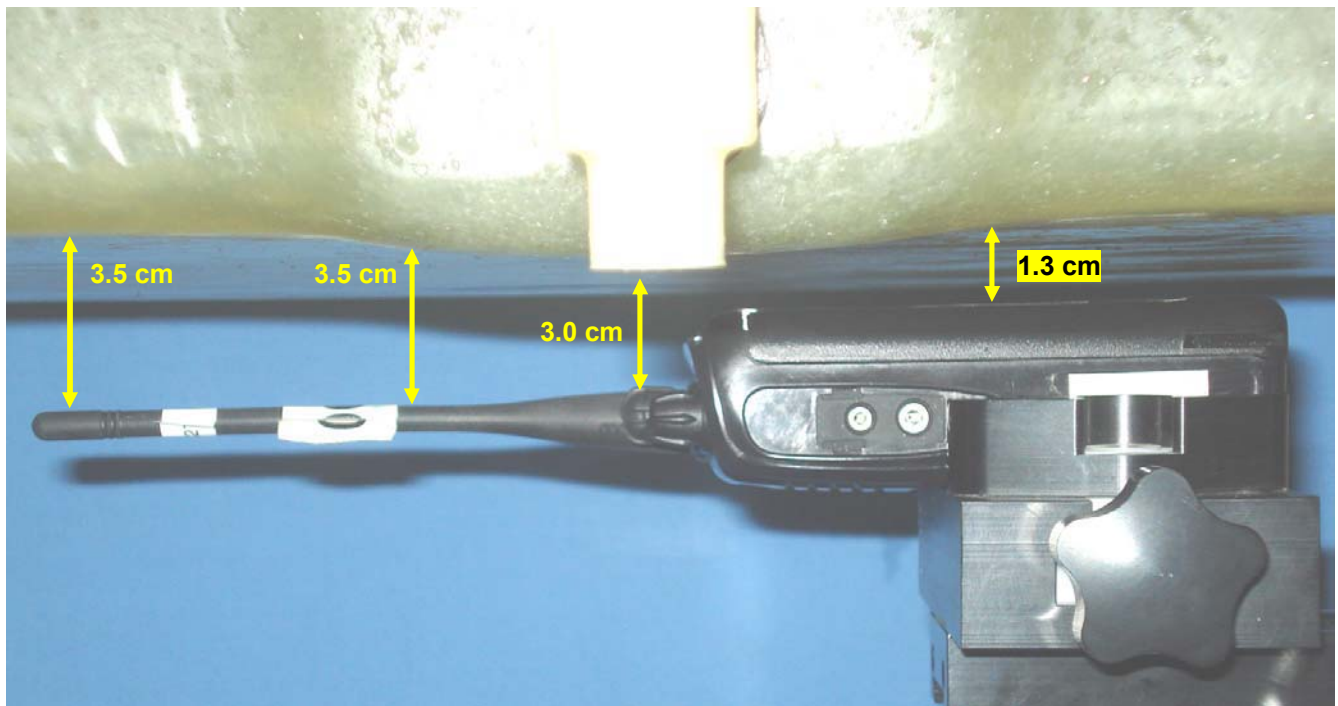


“Baseline” Test Setup with KRA-23M/M3 Stub Antenna (KNB-29N Li-Ion Battery Parallel to Phantom) - 1.3 cm Spacing

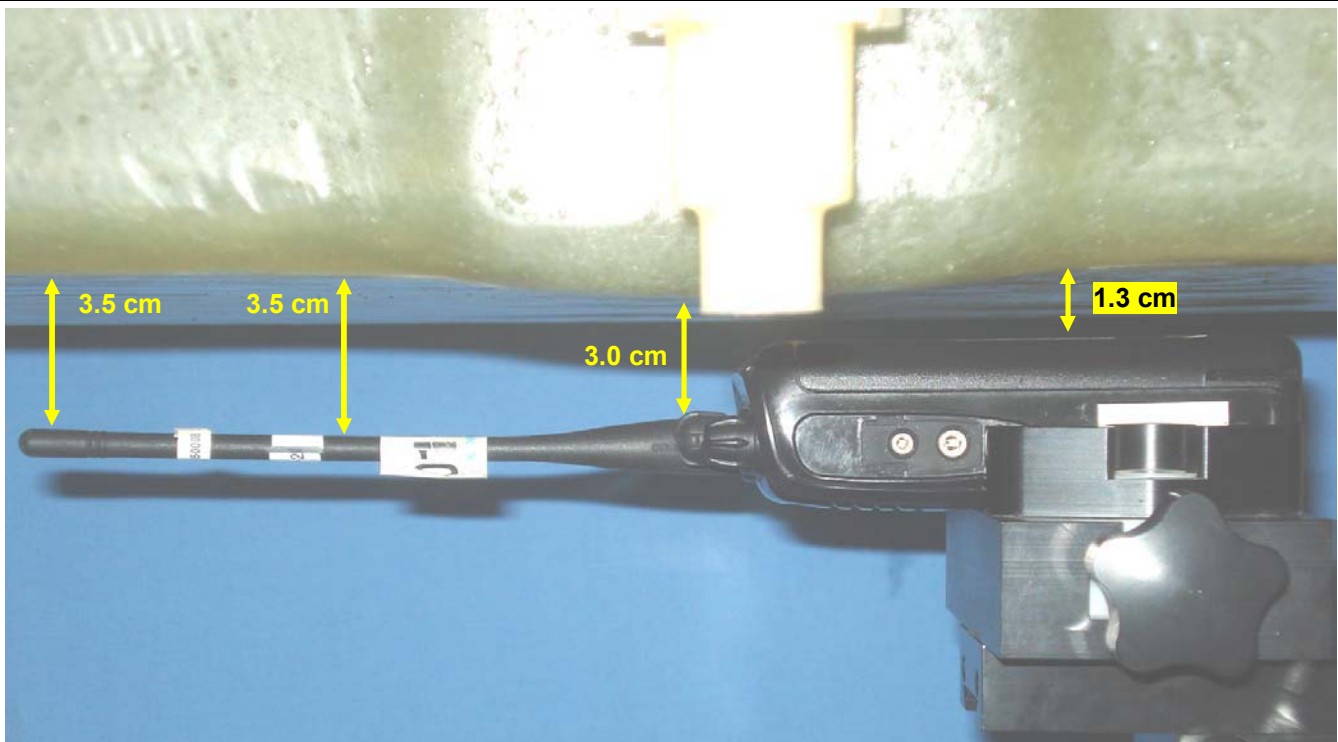
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

“BASELINE” BODY SAR TEST SETUP PHOTOGRAPHS






“Baseline” Test Setup with KRA-27M Whip Antenna (KNB-29N Li-Ion Battery Parallel to Phantom) - 1.3 cm Spacing



“Baseline” Test Setup with KRA-27M3 Whip Antenna (KNB-29N Li-Ion Battery Parallel to Phantom) - 1.3 cm Spacing

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

BODY-WORN SAR TEST SETUP PHOTOGRAPHS



DUT with Belt-Clip Body-worn Accessory (P/N: KBH-10) & Speaker-Microphone Audio Accessory (P/N: KMC-48GPS)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 
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Test Lab Certificate No. 2470.01				

BODY-WORN SAR TEST SETUP PHOTOGRAPHS



DUT with Belt-Clip Body-worn Accessory (P/N: KBH-10) & Over-the-Head Headset Audio Accessory (P/N: KHS-10-OH)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



Test Lab Certificate No. 2470.01

BODY-WORN SAR TEST SETUP PHOTOGRAPHS



DUT with Belt-Clip Body-worn Accessory (P/N: KBH-10) & 2-Wire Ear-Bud w/ mic/PTT Audio Accessory (P/N: KHS-23)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	Date(s) of Evaluation 06/29-07/03, 08/04, 2010	Test Report Serial No. 062810ALH-T1034-S90U	Test Report Revision No. Rev. 1.0 (Initial Release)	
	Test Report Issue Date August 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	



Test Lab Certificate No. 2470.01

BODY-WORN SAR TEST SETUP PHOTOGRAPHS

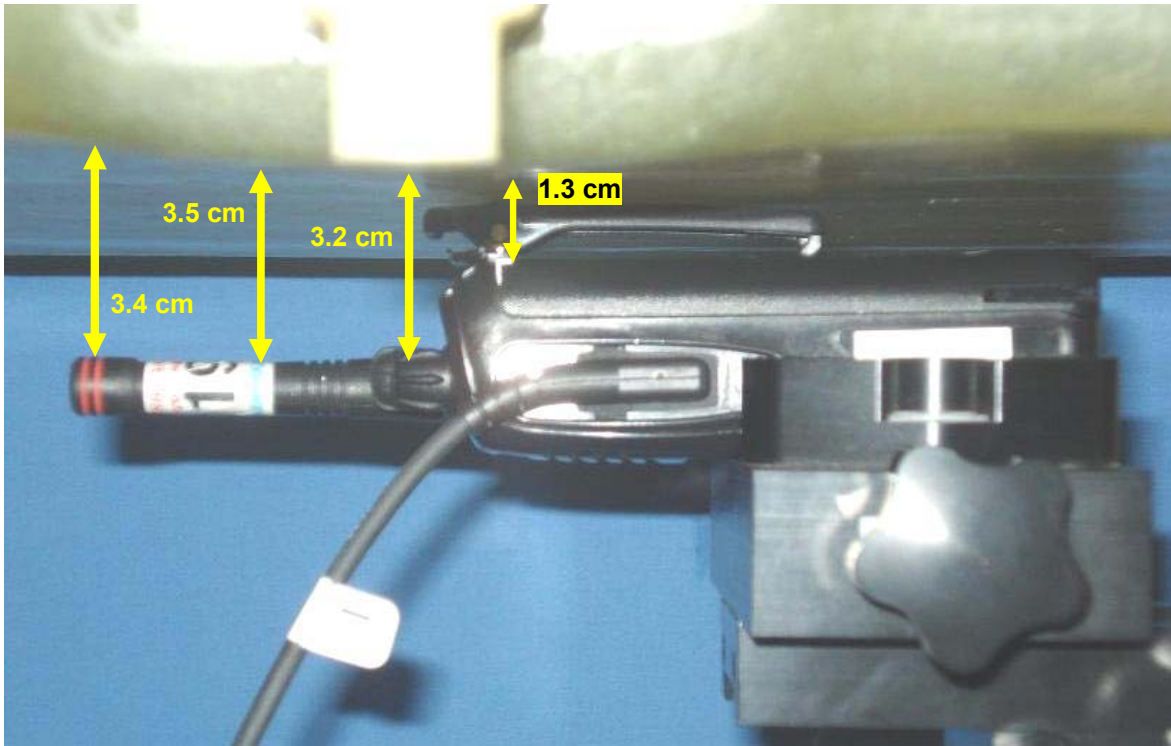


DUT with Belt-Clip Body-worn Accessory (P/N: KBH-10) & 2-Wire Palm-Mic Kit Audio Accessory (P/N: KHS-8BL)

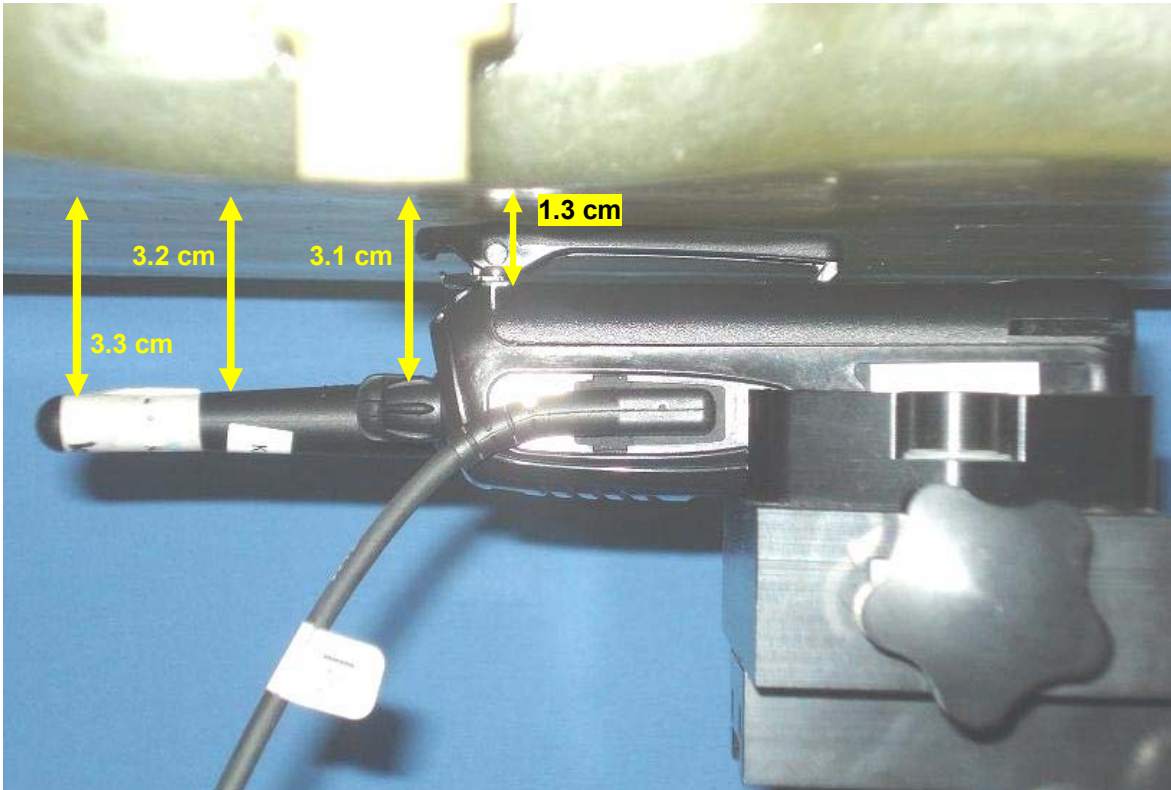
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	Test Report Issue Date August 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

BODY-WORN CONFIGURATION





DUT with Stub Antenna P/N: KRA-17M and Belt-Clip accessory - 1.3 cm Belt-Clip Spacing - **Battery Housing Parallel to Phantom**

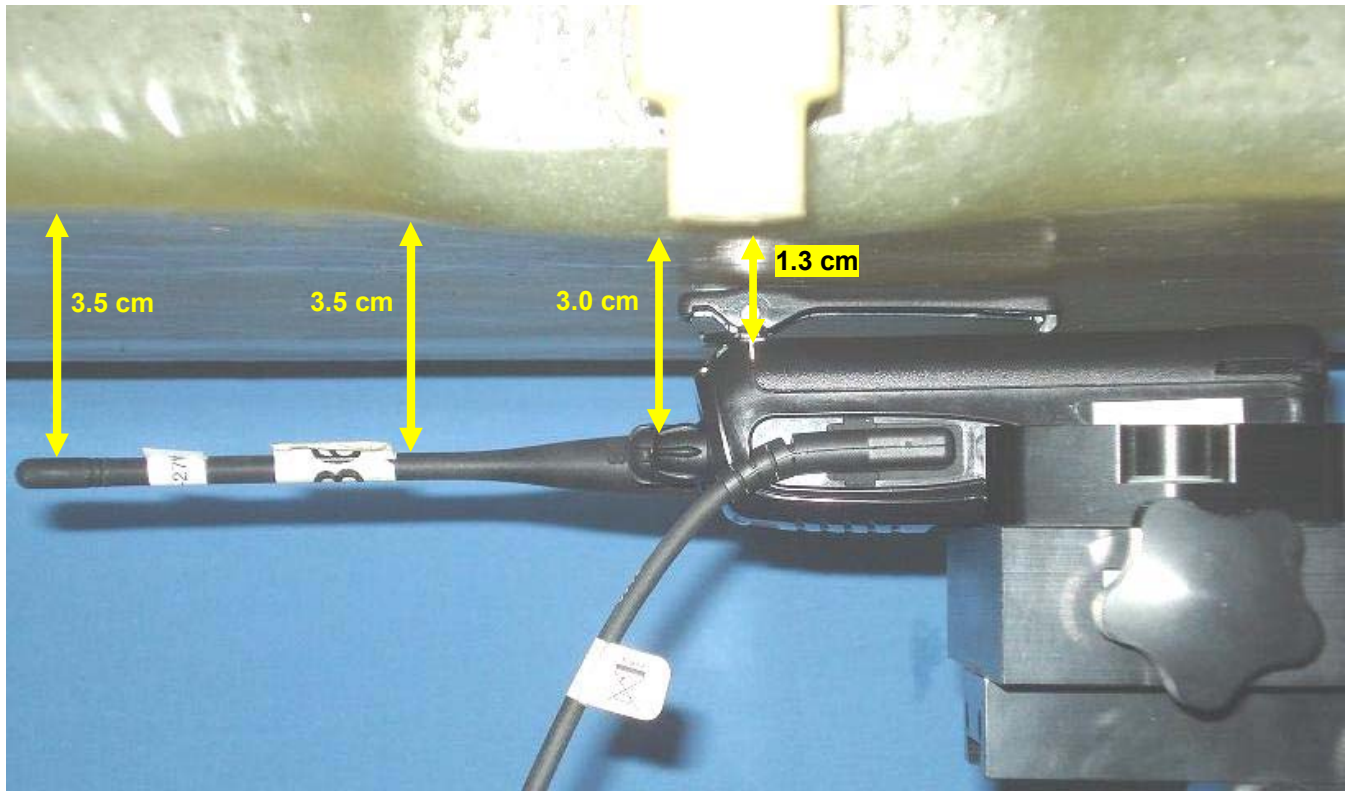


DUT with Stub Antenna P/N: KRA-23M/M3 and Belt-Clip accessory - 1.3 cm Belt-Clip Spacing - **Battery Housing Parallel to Phantom**

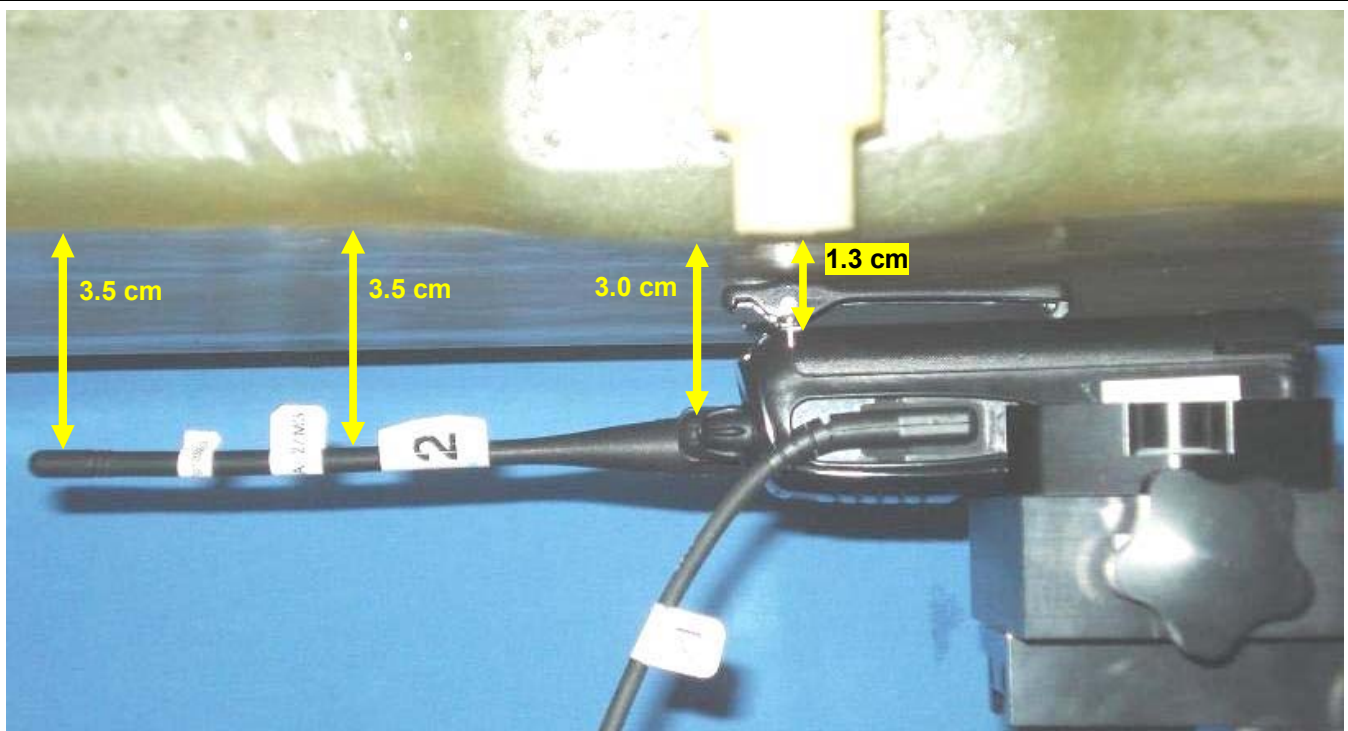
Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

BODY-WORN CONFIGURATION






DUT with Whip Antenna P/N: KRA-27M and Belt-Clip accessory - 1.3 cm Belt-Clip Spacing - Battery Housing Parallel to Phantom





DUT with Whip Antenna P/N: KRA-27M3 and Belt-Clip accessory - 1.3 cm Belt-Clip Spacing - Battery Housing Parallel to Phantom

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



Front of DUT with KRA-23M/M3 Antenna

Back of DUT with KRA-23M/M3 Antenna






Antenna P/N: KRA-23M (Length = 80 mm)



Antenna P/N: KRA-23M3 (Length = 80 mm)



Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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Test Lab Certificate No. 2470.01






Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	  Test Lab Certificate No. 2470.01
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Left Side of DUT with Belt-Clip accessory



Right Side of DUT with Belt-Clip accessory





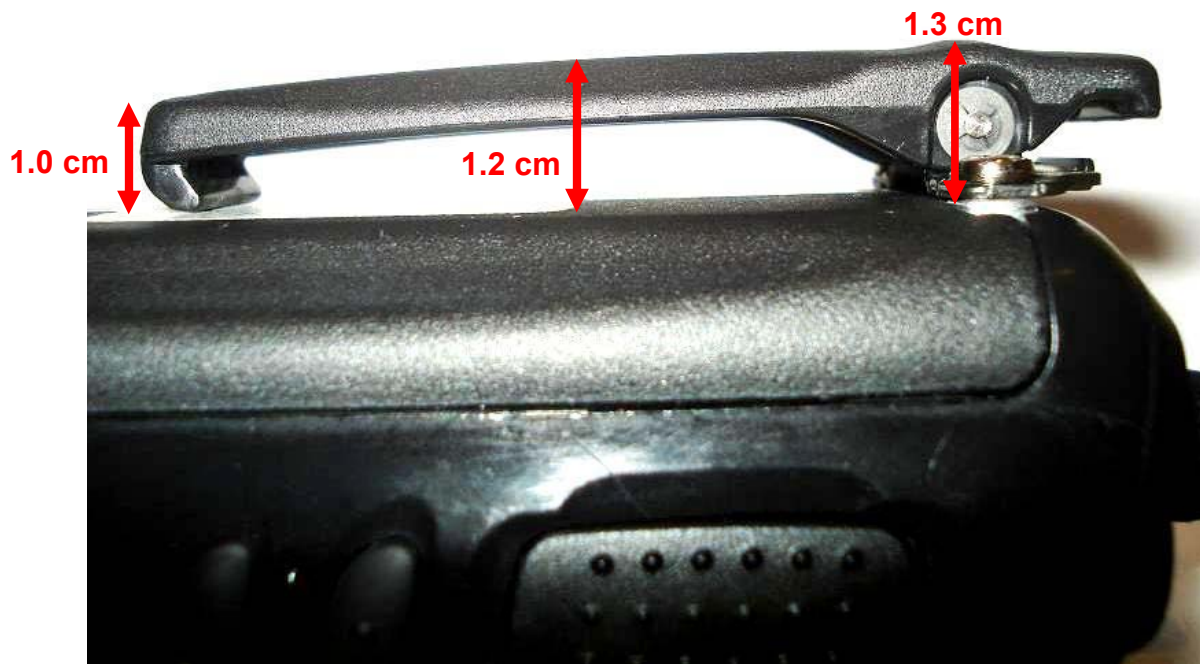
Bottom end of DUT with Belt-Clip accessory



Top end of DUT with Belt-Clip accessory

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	Test Report Issue Date August 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	



Belt-Clip Thickness Measurement



Belt-Clip attached to Back of DUT





Front of Belt-Clip (Contains Metal)



Back of Belt-Clip (Contains Metal)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



Back of DUT with Battery removed





Belt-Clip attached to Back of DUT



Belt-Clip attached to Back of DUT



Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	Test Report Issue Date August 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	



Note: Li-ion and Ni-MH batteries are equivalent dimensions

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING SELECTED FOR TESTING

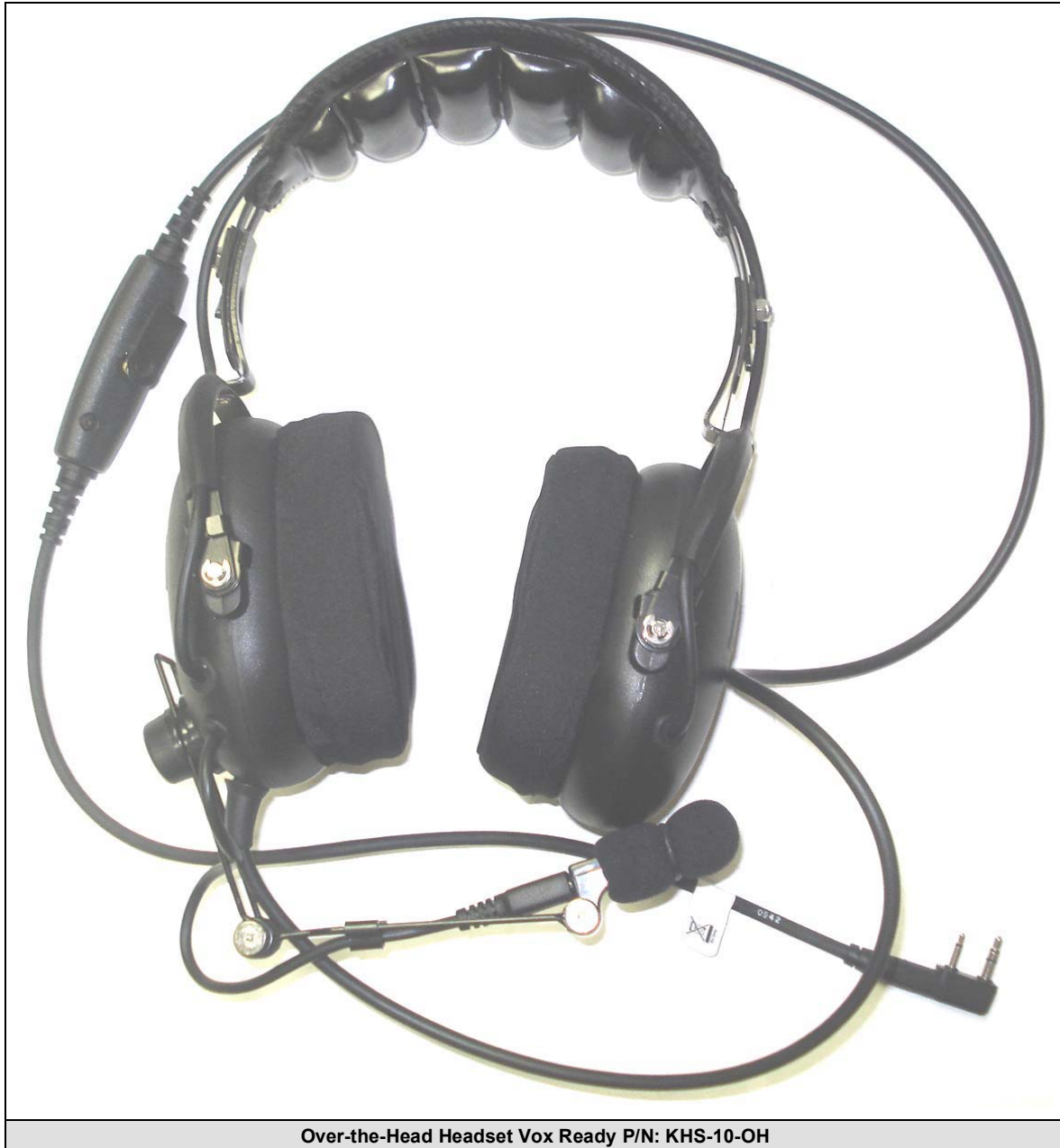


(AUDIO ACCESSORY GROUPING 1: SPEAKER-MICROPHONE)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING SELECTED FOR TESTING

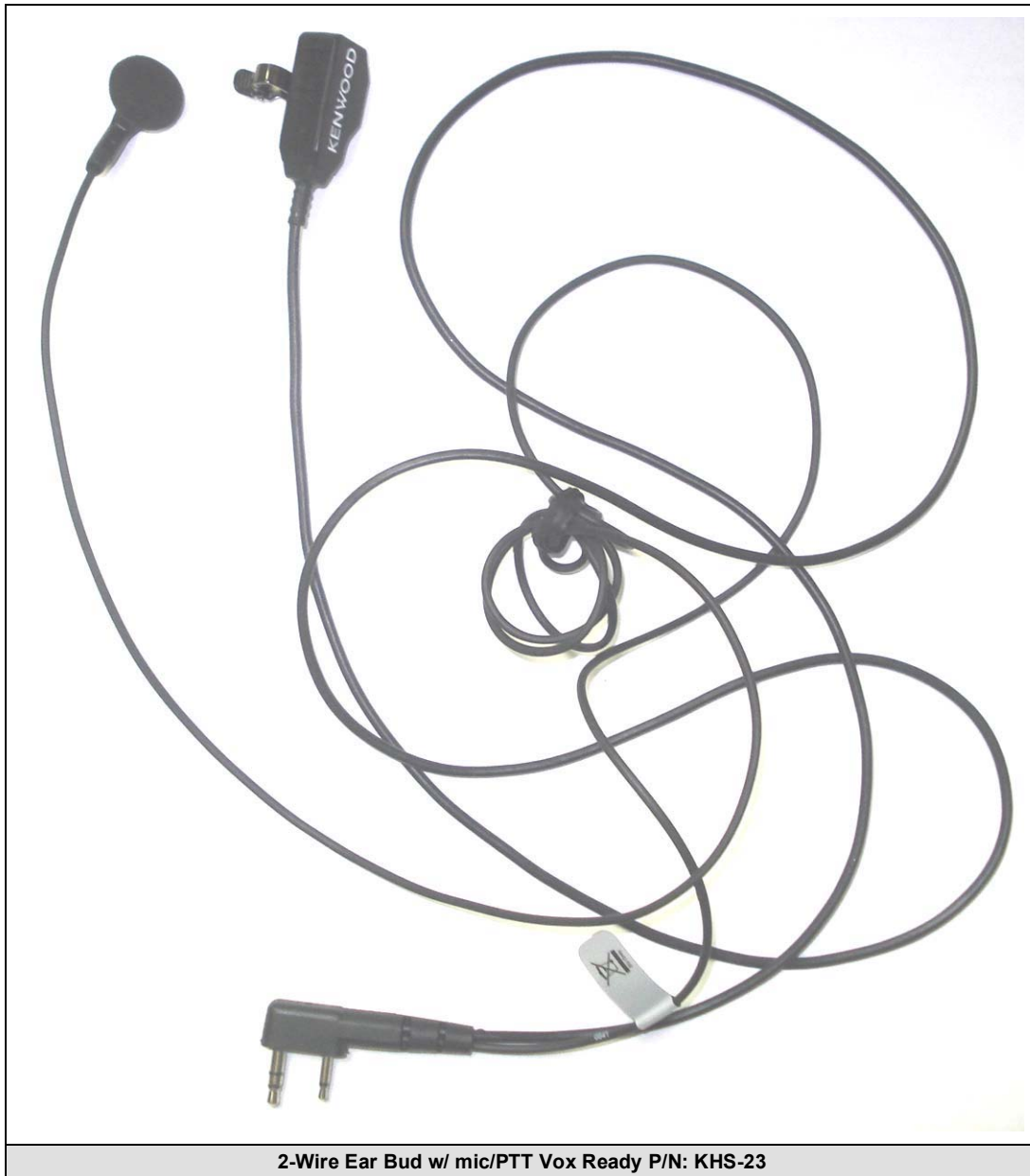


(AUDIO ACCESSORY GROUPING 2: HEADSET)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING SELECTED FOR TESTING

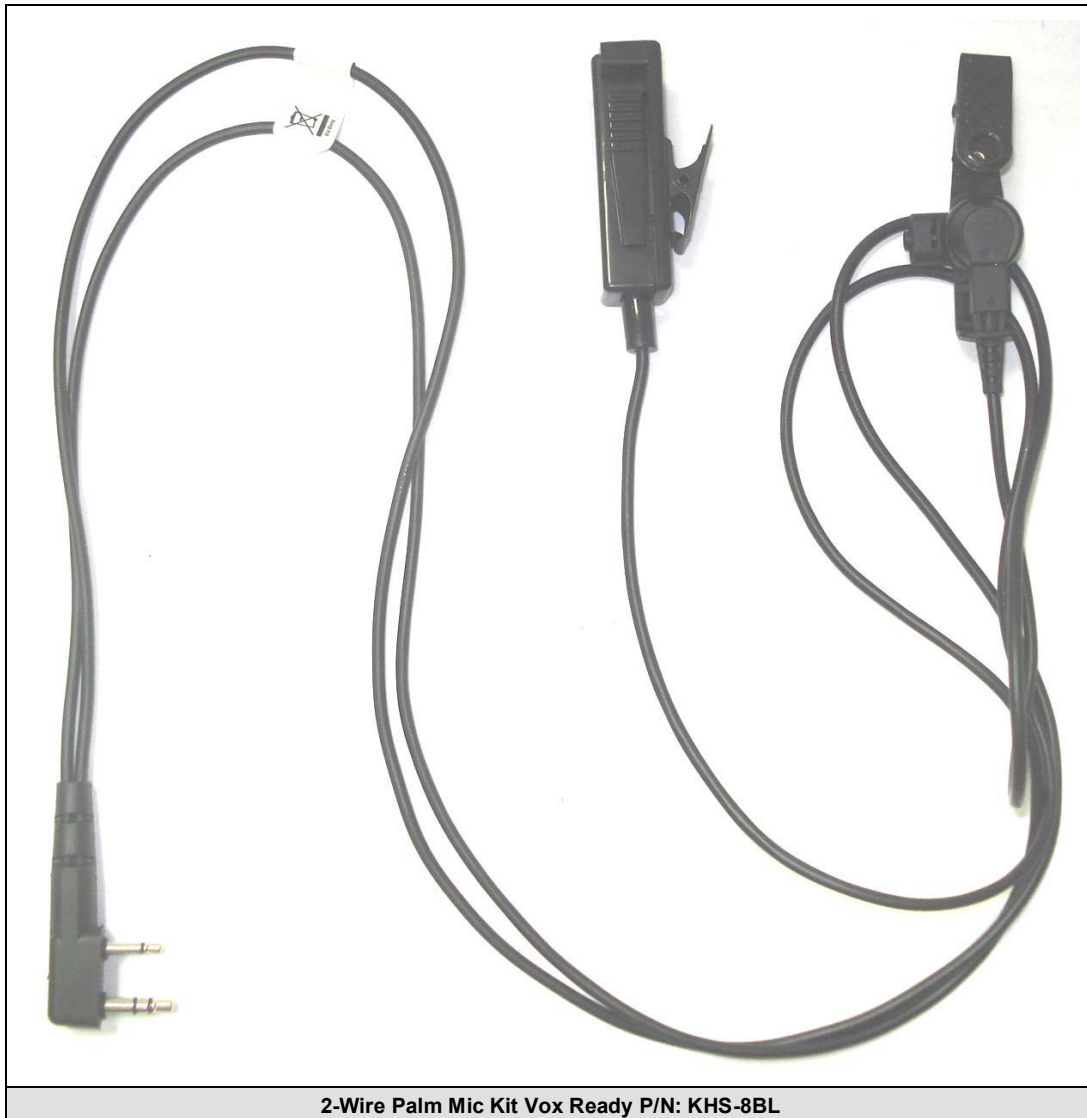


(AUDIO ACCESSORY GROUPING 3: EARPIECE)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	



AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING SELECTED FOR TESTING



2-Wire Palm Mic Kit Vox Ready P/N: KHS-8BL

(AUDIO ACCESSORY GROUPING 4: WIRE KIT)

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Speaker-Mic selected for evaluation)






Speaker-Microphone P/N: KMC-21



Speaker-Microphone P/N: KMC-45

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Date(s) of Evaluation</u> 06/29-07/03, 08/04, 2010	<u>Test Report Serial No.</u> 062810ALH-T1034-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 
	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Headset selected for evaluation)





Single-speaker Lightweight Headset with PTT Vox Ready P/N: KHS-7A



Behind-the-head Headset with Boom Mic P/N: KHS-22

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Headset selected for evaluation)





Single Headset with Boom Mic P/N: KHS-21



Behind-the-Head Headset Vox Ready P/N: KHS-10-BH

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01




ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Headset selected for evaluation)



Single-speaker Lightweight Headset Vox Ready P/N: KHS-7

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Earpiece selected for evaluation)





D Ear with Boom Mic & PTT P/N: KHS-25



PTT & Mic in-line P/N: KHS-26

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01




ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)

(Note: Not evaluated based on similar construction and operating configurations as Earpiece selected for evaluation)



D Earpiece, PTT with Mic P/N: KHS-27

Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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	<u>Test Report Issue Date</u> August 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	
Test Lab Certificate No. 2470.01				

ADDITIONAL AUDIO ACCESSORY OPTION PER MANUFACTURER LISTING (NOT EVALUATED)
(Note: Not evaluated based on similar construction and operating configurations as Wire Kit selected for evaluation)



Applicant:	Kenwood USA Corporation	FCC ID:	ALH413801	IC:	282D-413801	KENWOOD
DUT Type:	Portable FM UHF PTT Radio Transceiver	Models:	TK-3312-2 (FCC/IC)	TK-3317-2 (FCC)		
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