

 Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	 IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	

APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS

Figure	FACE			
1				
DUT	Antenna	Battery	Body Accessory	Audio Accessory
STP-9080	300-00498	300-00365	n/a	n/a
DUT	Separation Distance to Phantom			Antenna
25mm				35mm
Set-Up				
				
DUT				
				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	FACE			
2				
DUT	Antenna	Battery	Body Accessory	Audio Accessory
STP-9180	300-00498	300-00365	n/a	n/a
DUT	Separation Distance to Phantom			Antenna
25mm				35mm
Set-Up				
				
DUT				
				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	FACE					
3						
DUT	Antenna	Battery	Body Accessory	Audio Accessory		
STP-9280	300-00498	300-00365	n/a	n/a		
DUT	Separation Distance to Phantom		Antenna			
25mm			35mm			
Set-Up						
						
DUT						
						

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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 Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
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Figure	FACE						
4							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9280	300-00498	300-00365	n/a	300-00388			
DUT	Separation Distance to Phantom			Antenna			
25mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY			
5				
DUT	Antenna	Battery	Body Accessory	Audio Accessory
STP-9080	300-00498	300-00364	300-00442	n/a
DUT	Separation Distance to Phantom			Antenna
15mm				35mm
Set-Up				
DUT				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY						
6							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00365	300-00442	n/a			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	

Figure	BODY						
7							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	300-00440	n/a			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY			
8				
DUT	Antenna	Battery	Body Accessory	Audio Accessory
STP-9080	300-00498	300-00365	300-00440	n/a
DUT	Separation Distance to Phantom			Antenna
20mm				40mm
Set-Up				
				
DUT				
				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Solving Critical Industrial Communications			
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY						
9							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	300-00233	n/a			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Global leader in critical communications			
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY						
10							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	300-00439	n/a			
DUT	Separation Distance to Phantom			Antenna			
20mm				40mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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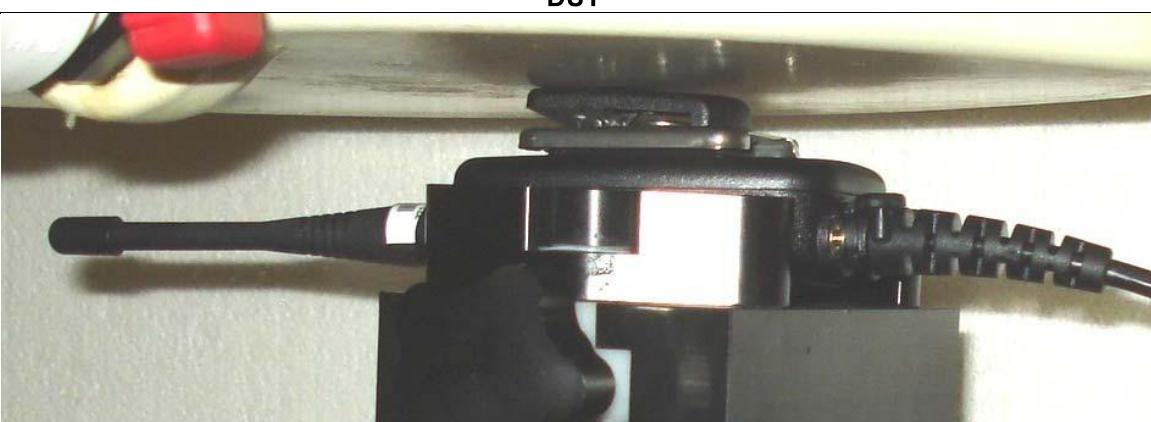
Figure	BODY						
11							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9180	300-00498	300-00364	300-00233	n/a			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY						
12							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9280	300-00498	300-00364	300-00233	n/a			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	BODY						
13							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	300-00233	300-00388			
DUT	Separation Distance to Phantom			Antenna			
15mm				35mm			
Set-Up							
							
DUT							
							

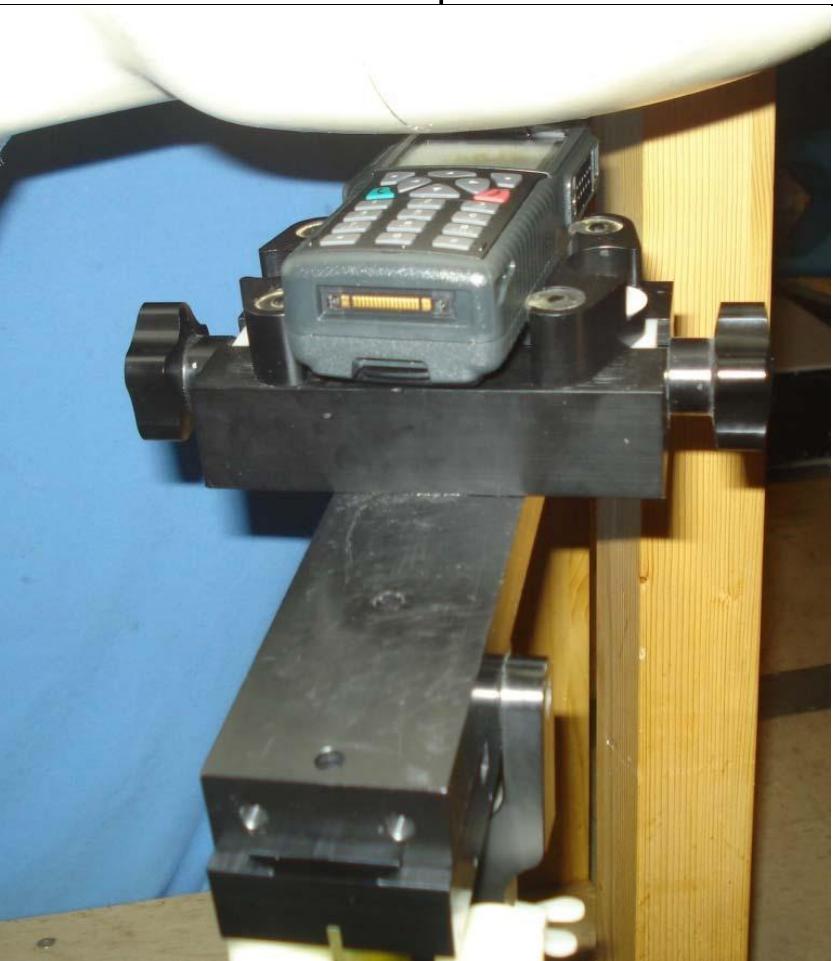
Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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Figure	HEAD – Left Touch						
14							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

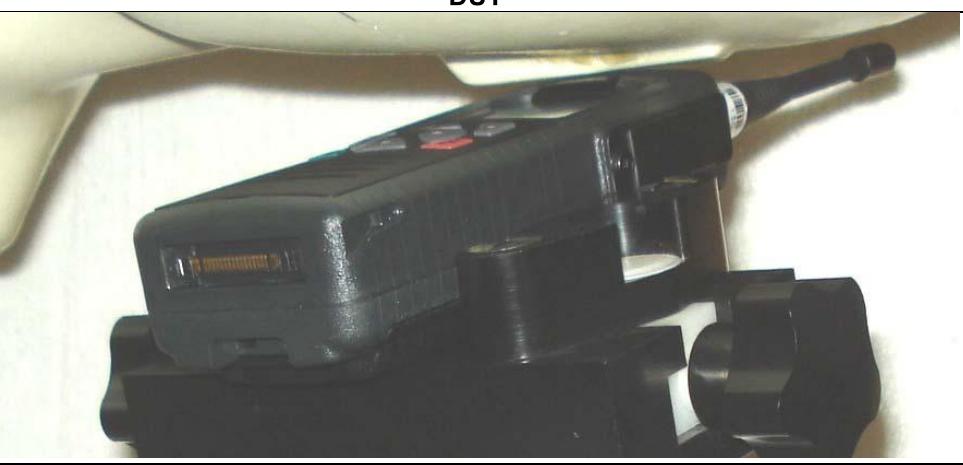
Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	HEAD – Left Tilt						
15							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	HEAD – Left Tilt						
16							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9180	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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Figure	HEAD – Left Tilt						
17							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9280	300-00498	300-00364	n/a	n/a			
DUT n/a	Separation Distance to Phantom			Antenna			
				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	HEAD – Right Touch						
18							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9080	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	HEAD – Right Tilt			
19				
DUT	Antenna	Battery	Body Accessory	Audio Accessory
STP-9080	300-00498	300-00364	n/a	n/a
DUT	Separation Distance to Phantom			Antenna
n/a				n/a
Set-Up				
				
DUT				
				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Driving better mobile communications		
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280					
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Figure	HEAD – Right Touch						
20							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9180	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	HEAD – Right Touch						
21							
DUT	Antenna	Battery	Body Accessory	Audio Accessory			
STP-9280	300-00498	300-00364	n/a	n/a			
DUT	Separation Distance to Phantom			Antenna			
n/a				n/a			
Set-Up							
							
DUT							
							

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Driving better mobile communications			
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Figure	STP-9080			
	Back	Side	Back	Side
23	w/ 300-00364 Battery	w/ 300-00364 Battery	w/ 300-00365 Battery	w/ 300-00365 Battery
				

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Inc. Driving better mobile communications			
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280				
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280						
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Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280		IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver		DUT:	STP-9080, STP-9280			
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 Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	  Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280		IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver		DUT:	STP-9080, STP-9280			
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Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Driving better mobile communications
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



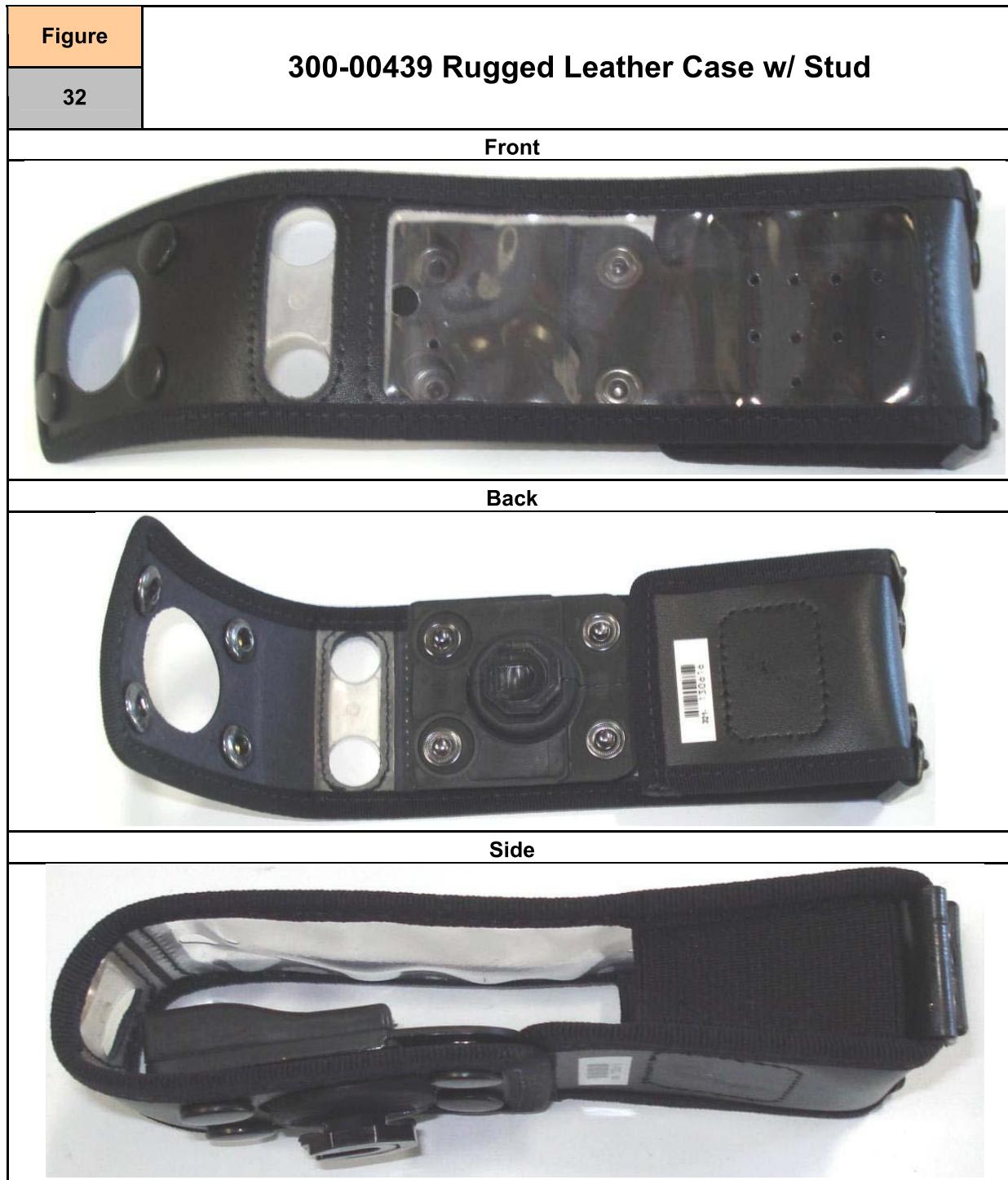
Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Radio Communication
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	 Sepura Riding Center Industrial Communication
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	IAC-MRA ACCREDITED Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	  Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	 Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	



Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Celltech Testing and Engineering Services Lab	Date(s) of Evaluation Aug 11-18, 2014	Test Report Serial No. 082114XX6-1306S	Test Report Revision No. Rev. 1.2	 Test Lab Certificate No. 2470.01
	Test Report Issue Date September 4, 2014	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational/Controlled	

APPENDIX E - DIPOLE CALIBRATION

Applicant:	Sepura plc	FCC ID:	XX6STP9080 XX6STP9280	IC:	8739A-STP9080 8739A-STP9280	
DUT Type:	Portable TETRA Radio Transceiver	DUT:	STP-9080, STP-9280			
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 Celltech <small>Testing and Engineering Services Lab</small>	<u>Date:</u> Aug 19, 2013	<u>Revision No.</u> Rev. 1.1
	835 MHz Dipole Extended Calibration	

Dipole: D835V2
 Serial Number: 4d075
 Last Calibrated: Apr. 20, 2012



Antenna Parameters with Head TSL						
	Impedance Real (ohms)	Deviation from cal	Impedance Imaginary (ohms)	Deviation from cal	Return Loss (dB)	Deviation from Cal
Last Calibration	51.4	-	-4.6	-	-26.5	-
Extended Cal Aug 14, 2013	50.9	0.5	-3.6	1.0	-28.4	7.2%

Antenna Parameters with Body TSL						
	Impedance Real (ohms)	Deviation from cal (ohms)	Impedance Imaginary (ohms)	Deviation from cal (ohms)	Return Loss (dB)	Deviation from Cal (%)
Last Calibration	46.8	-	-6.2	-	-22.8	-
Extended Cal Aug. 19, 2013	45.9	0.9	-6.3	0.1	-22.2	2.6%

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
C Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Celltech**

Certificate No: **D835V2-4d075_Apr12**

CALIBRATION CERTIFICATE

Object **D835V2 - SN: 4d075**

Calibration procedure(s) **QA CAL-05.v8**
 Calibration procedure for dipole validation kits above 700 MHz

Calibration date: **April 20, 2012**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	05-Oct-11 (No. 217-01451)	Oct-12
Power sensor HP 8481A	US37292783	05-Oct-11 (No. 217-01451)	Oct-12
Reference 20 dB Attenuator	SN: 5058 (20k)	27-Mar-12 (No. 217-01530)	Apr-13
Type-N mismatch combination	SN: 5047.2 / 06327	27-Mar-12 (No. 217-01533)	Apr-13
Reference Probe ES3DV3	SN: 3205	30-Dec-11 (No. ES3-3205_Dec11)	Dec-12
DAE4	SN: 601	04-Jul-11 (No. DAE4-601_Jul11)	Jul-12
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-11)	In house check: Oct-13
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-11)	In house check: Oct-13
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 20, 2012

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

