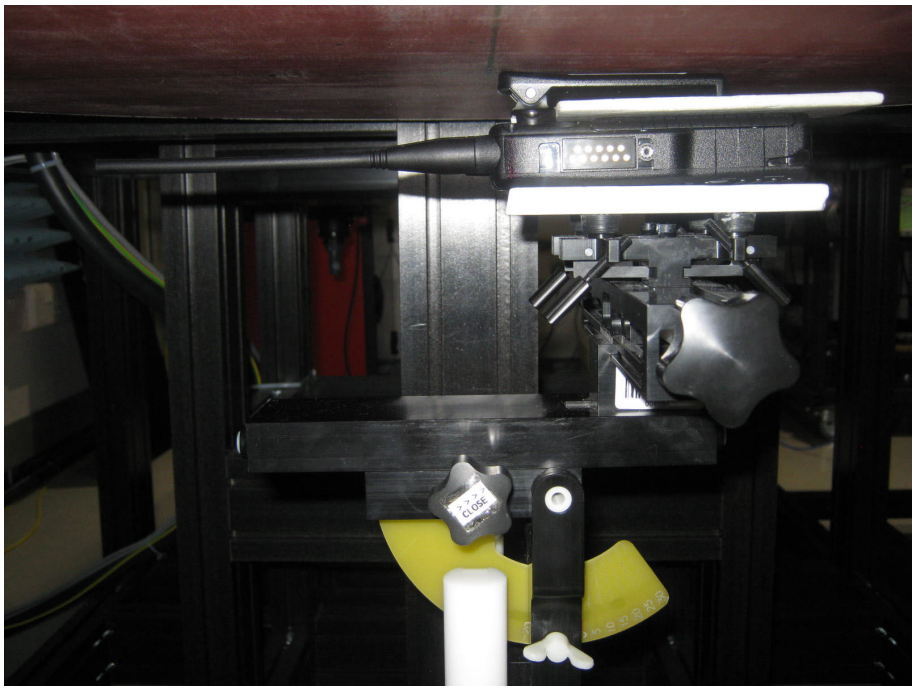


Figure 64
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Whip Antenna (Part no: 310-00015) - 0 mm Separation distance
Large Belt Clip 300-01923

Figure 65
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Whip Antenna (Part no: 310-00015)
Holster 300-01915 (Leather)
0 mm Separation distance

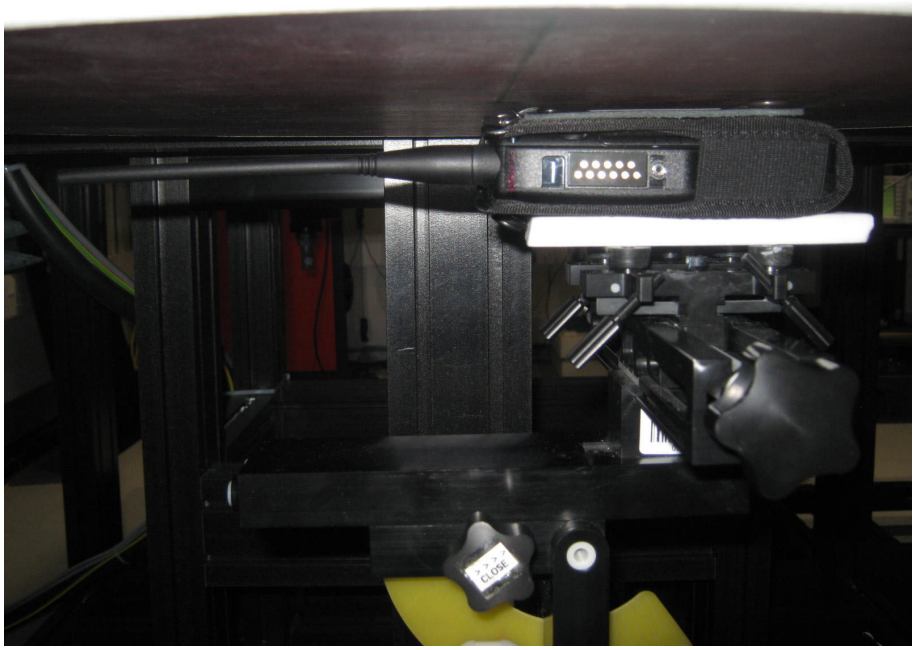


Figure 66
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Whip Antenna (Part no: 310-00015
Holster 300-01916 (Nylon)
0 mm Separation distance

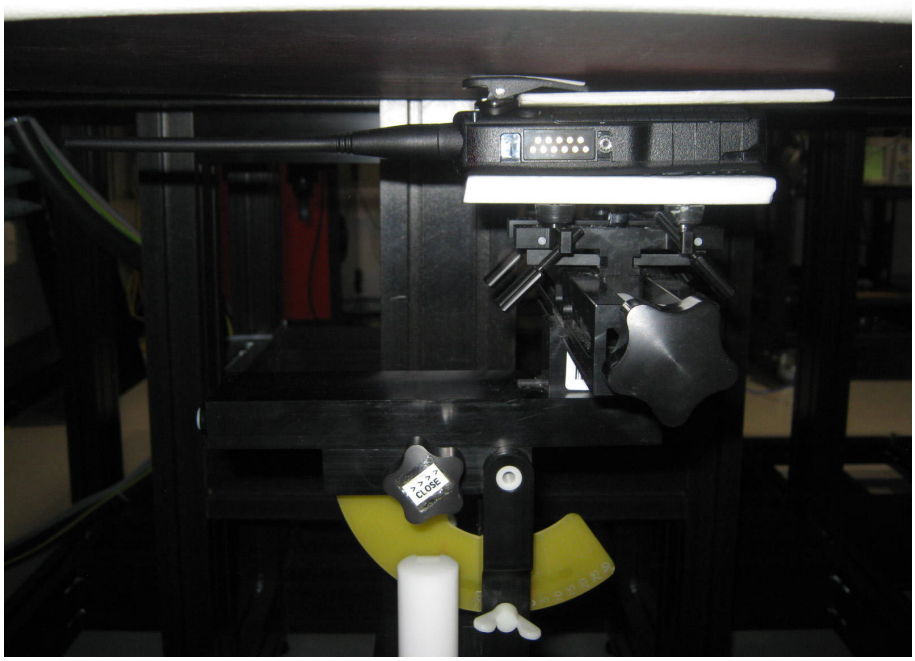


Figure 67
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Whip Antenna (Part no: 310-00015)
Shirt Pocket Clip 300-01922
0 mm Separation distance

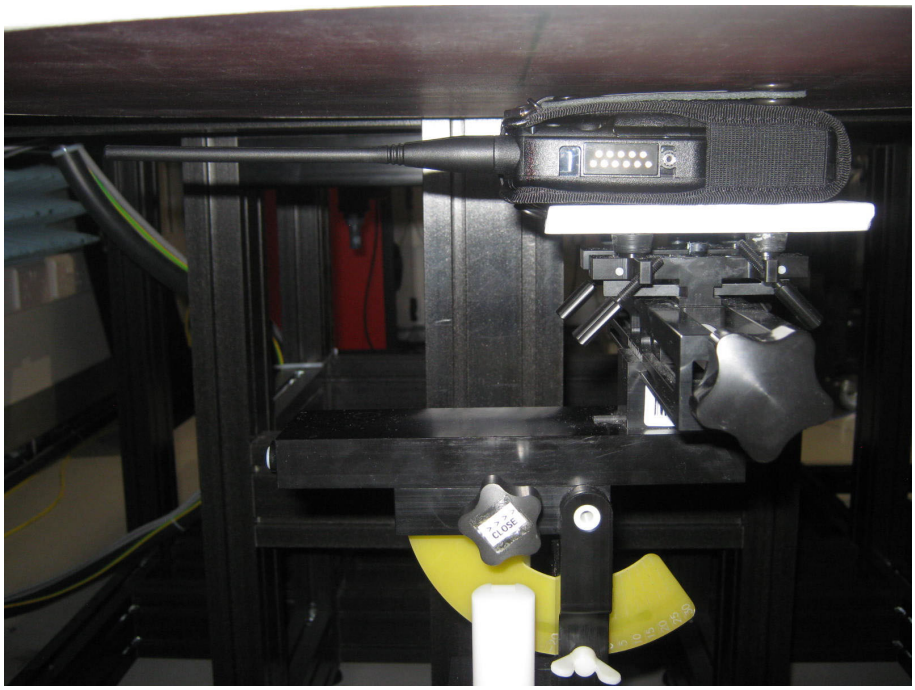


Figure 68
Rear Face - 1880 mAh Battery (Part no:300-01853)
Whip Antenna (Part no: 310-00015) - 0 mm Separation distance
Holster 300-01916 (Nylon)

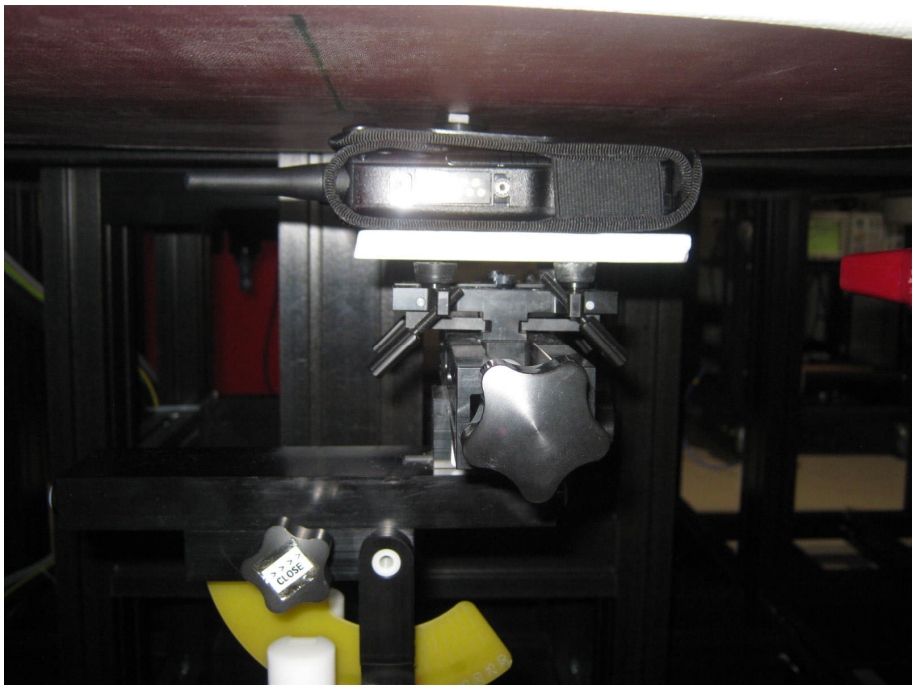


Figure 69
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)
Holster 300-01917 (Click Fast)
0 mm Separation distance

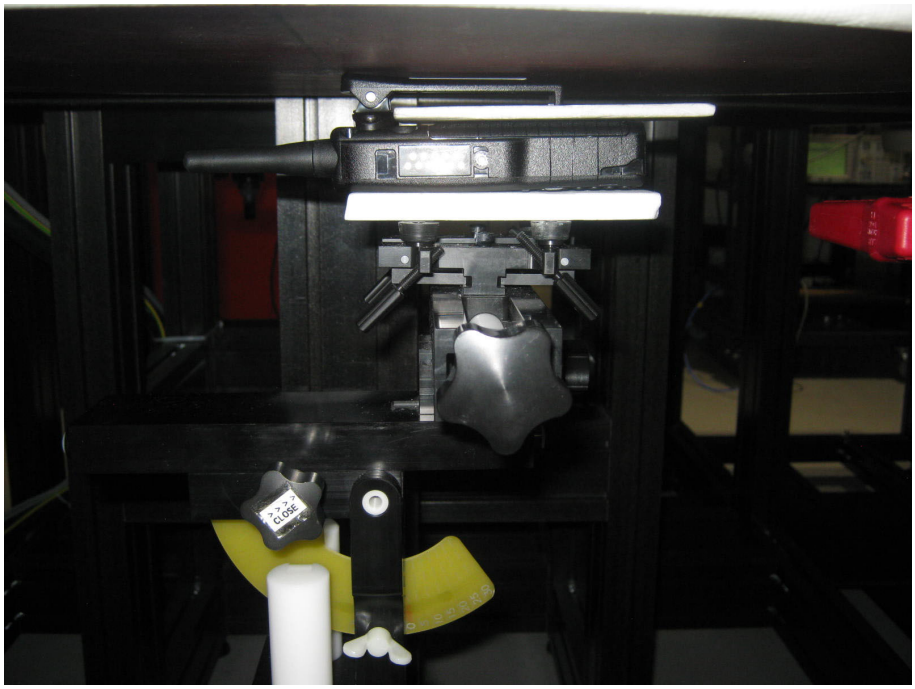


Figure 70
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)
Large Belt Clip 300-01923
0 mm Separation distance

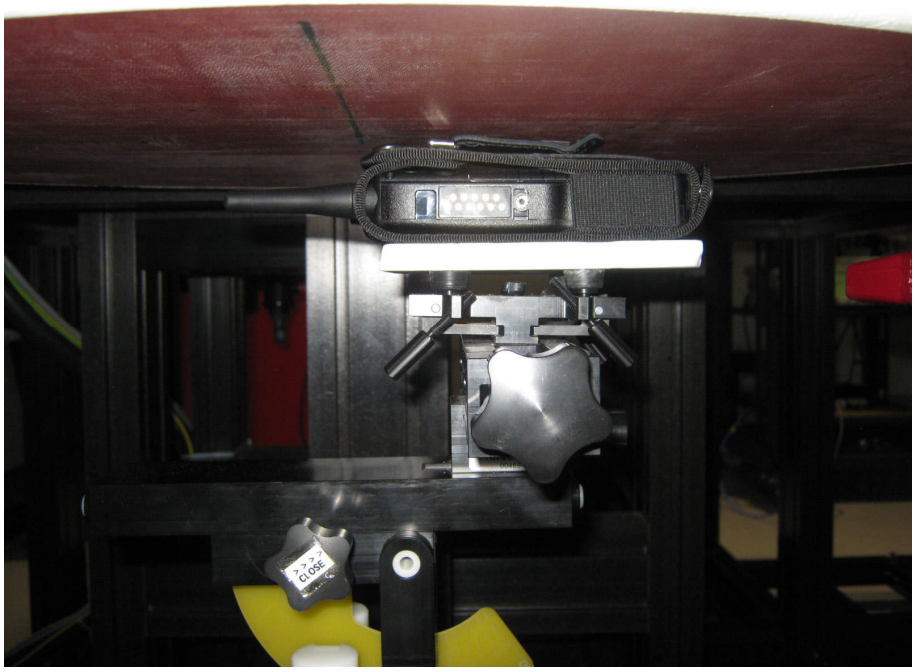


Figure 71
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)
Holster 300-01915 (Leather)
0 mm Separation distance

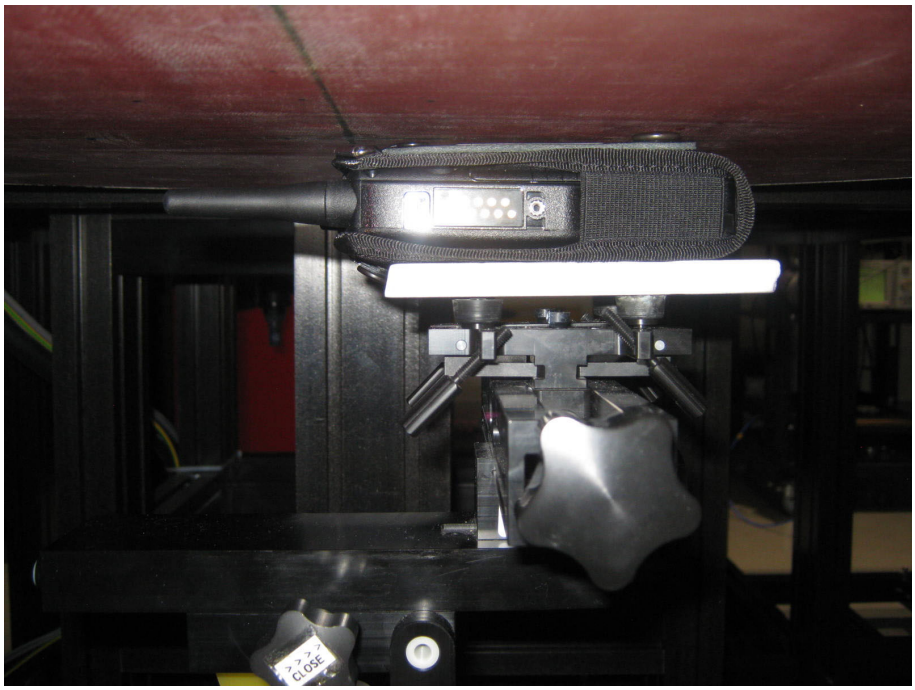


Figure 72
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)
Holster 300-01916 (Nylon)
0 mm Separation distance

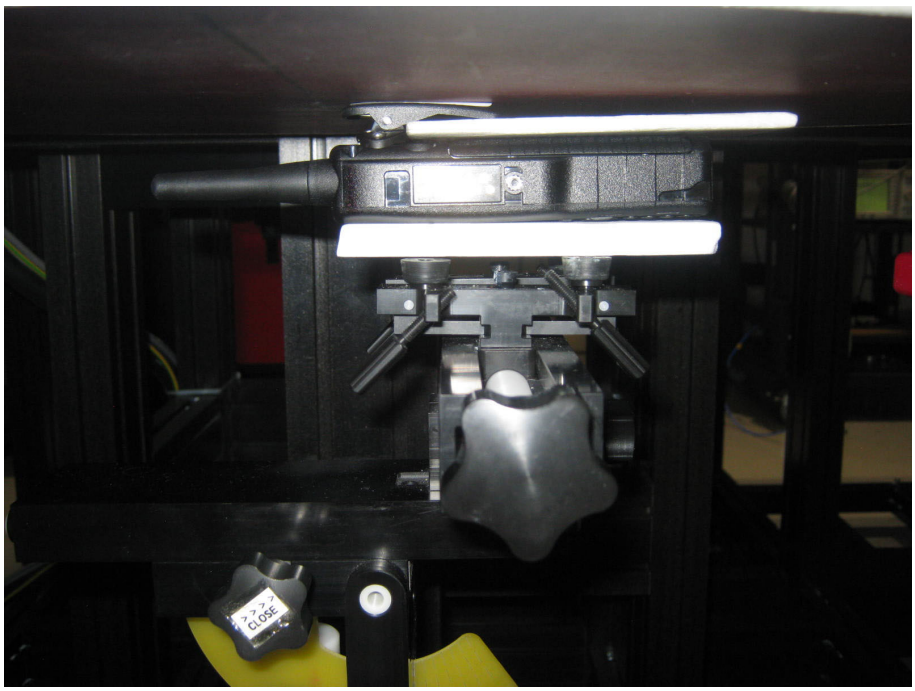


Figure 73
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)
Shirt Pocket Clip 300-01922
0 mm Separation distance

Figure 74
Rear Face - 1160 mAh Battery (Part no: 300-01852)
Whip Antenna (Part no: 310-00015
Holster 300-01916 (Nylon)
RSM attached
0 mm Separation distance

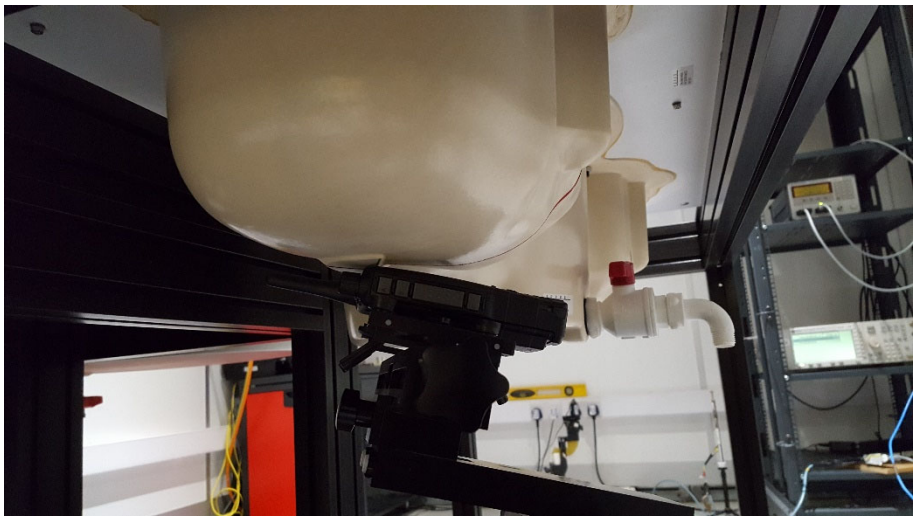


Figure 75
Right Tilt - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01960)

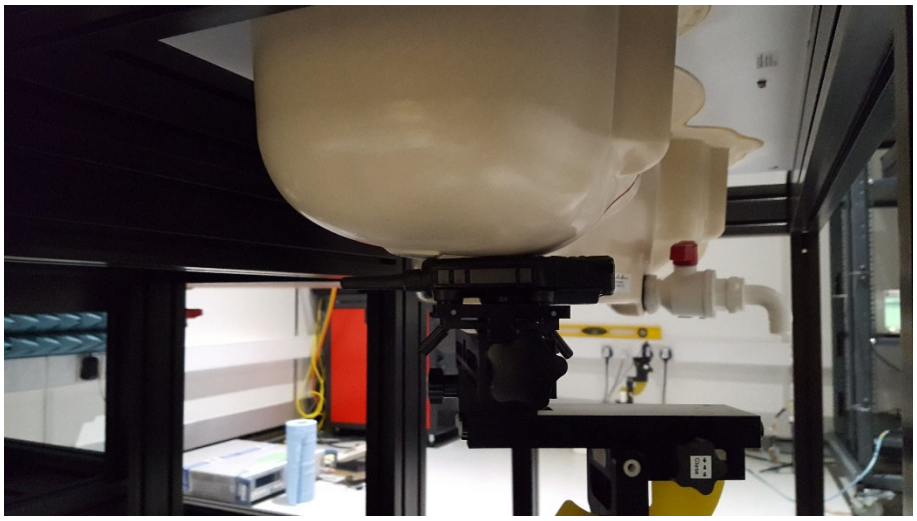


Figure 76
Right Cheek - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01960)

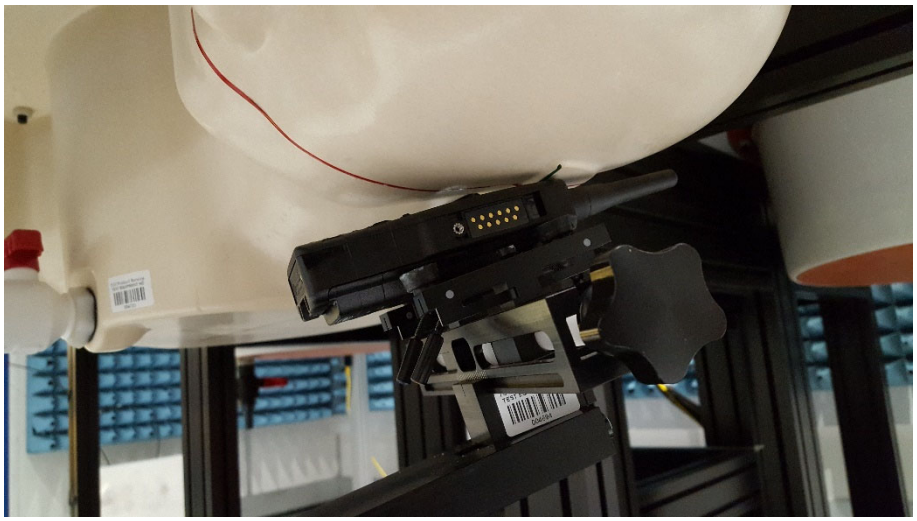


Figure 77
Left Tilt - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01960)

Figure 78
Left Cheek - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01960)

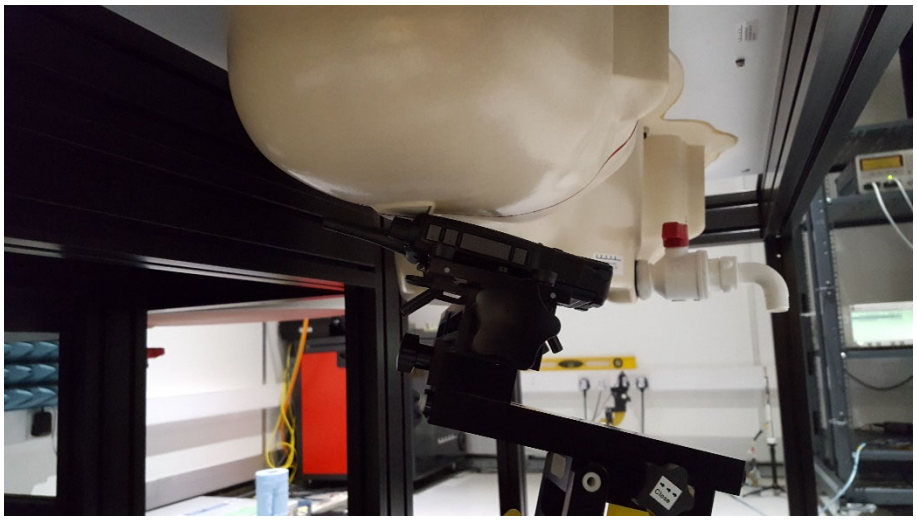


Figure 79
Right Tilt - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01960)

Figure 80
Right Cheek - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01960)

Figure 81
Left Tilt - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01960)

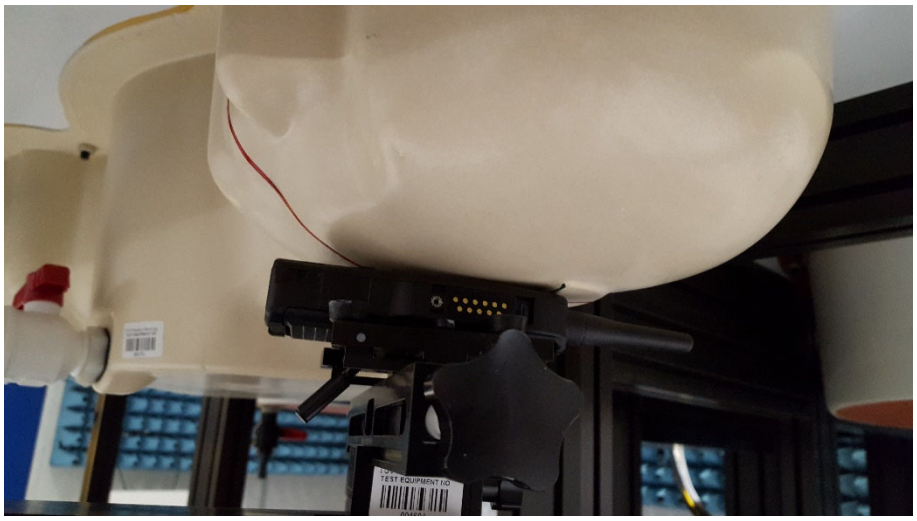


Figure 82
Left Cheek - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01960)

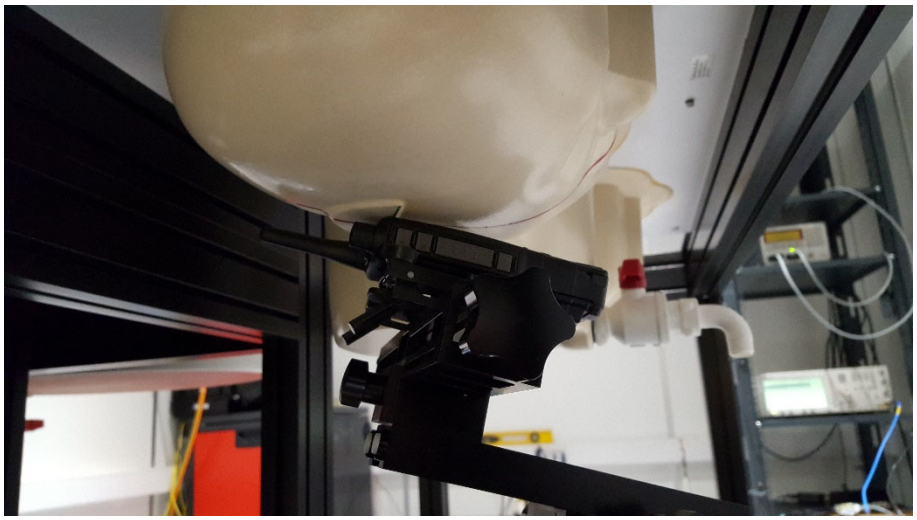


Figure 83
Right Tilt - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01931)

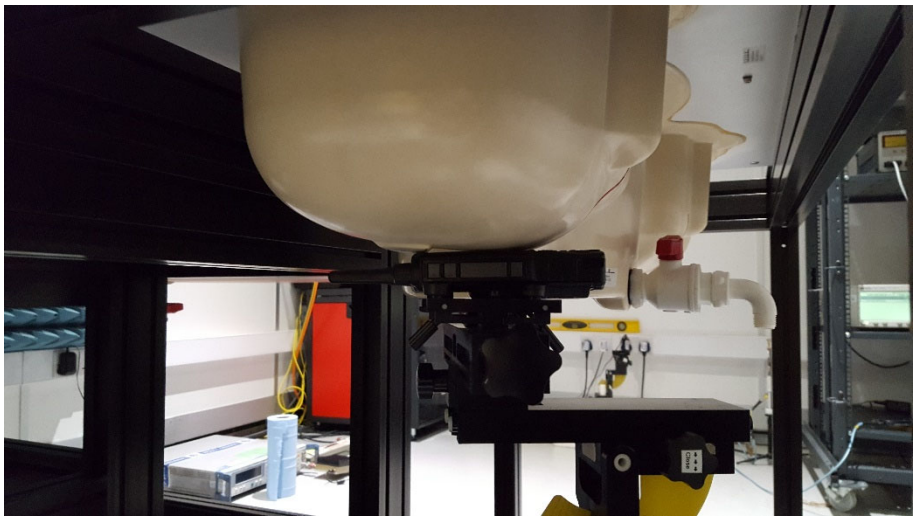


Figure 84
Right Cheek - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01931)

Figure 85
Left Tilt - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01931)

Figure 86
Left Cheek - 1880 mAh Battery (Part no: 300-01853)
Extended Helical Antenna (Part no: 300-01931)

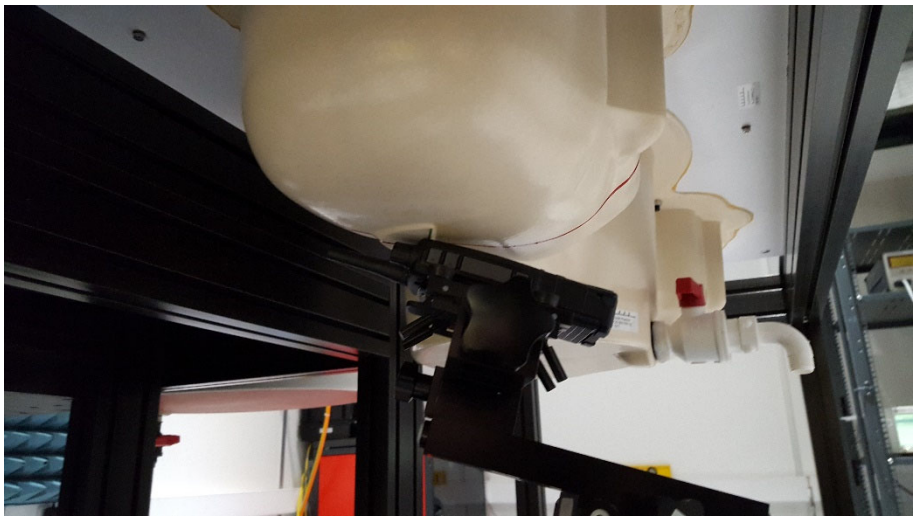


Figure 87
Right Tilt - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)

Figure 88
Right Cheek - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)

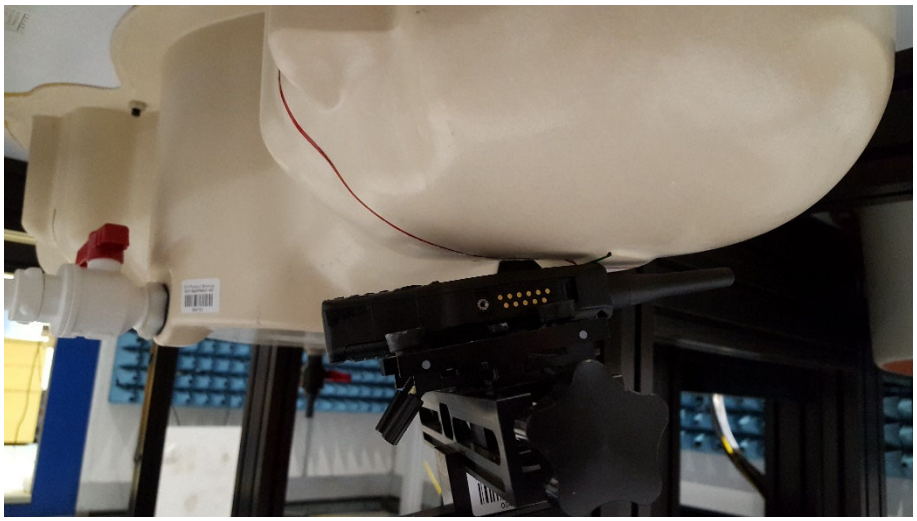


Figure 89
Left Tilt - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)

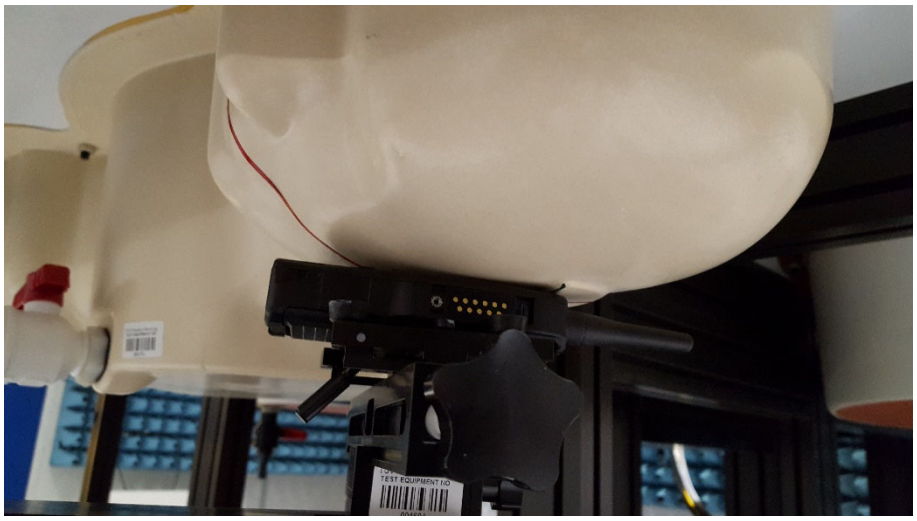


Figure 90
Left Cheek - 1160 mAh Battery (Part no: 300-01852)
Extended Helical Antenna (Part no: 300-01931)

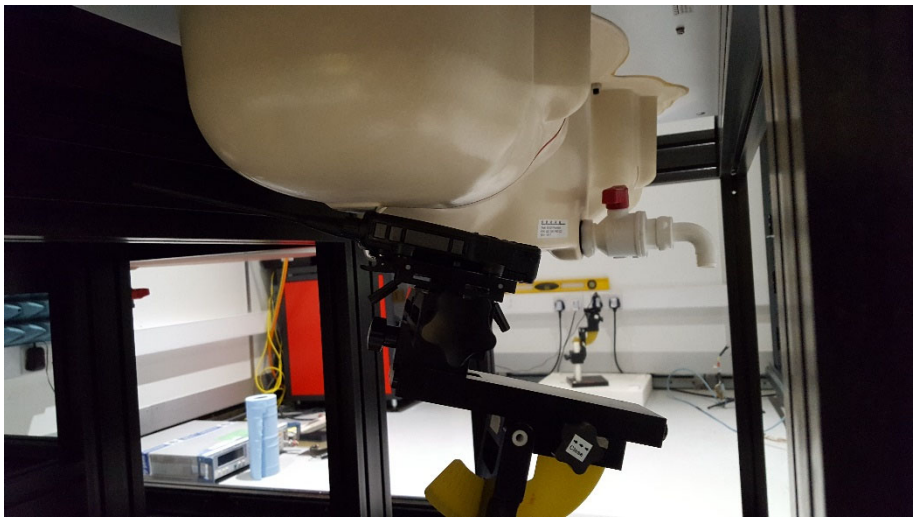


Figure 91
Right Tilt - 1880 mAh Battery (Part no: 300-01853)
¼ Wave Whip Antenna (Part no: 310-00015)

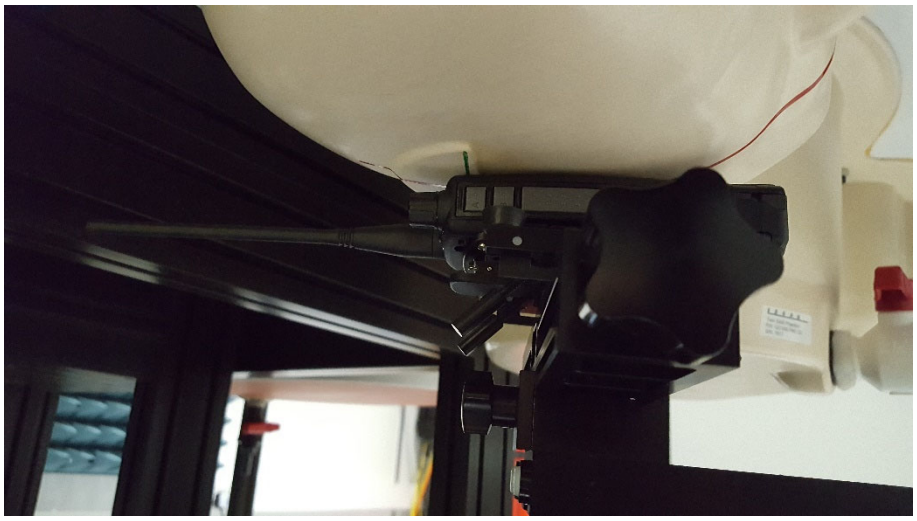


Figure 92
Right Cheek - 1880 mAh Battery (Part no: 300-01853)
¼ Wave Whip Antenna (Part no: 310-00015)

Figure 93
Left Tilt - 1880 mAh Battery (Part no: 300-01853)
¼ Wave Whip Antenna (Part no: 310-00015)

Figure 94
Left Cheek - 1880 mAh Battery (Part no: 300-01853)
¼ Wave Whip Antenna (Part no: 310-00015)

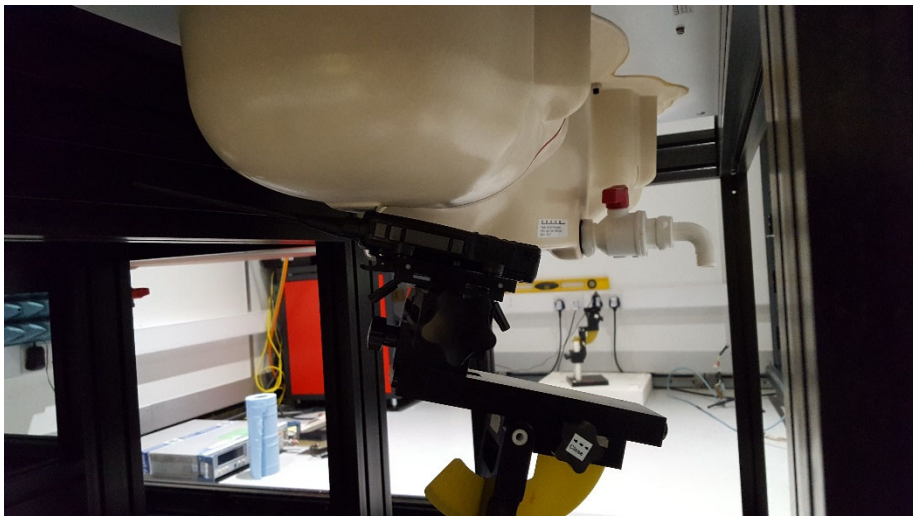


Figure 95
Right Tilt - 1160 mAh Battery (Part no: 300-01852)
¼ Wave Whip Antenna (Part no: 310-00015)

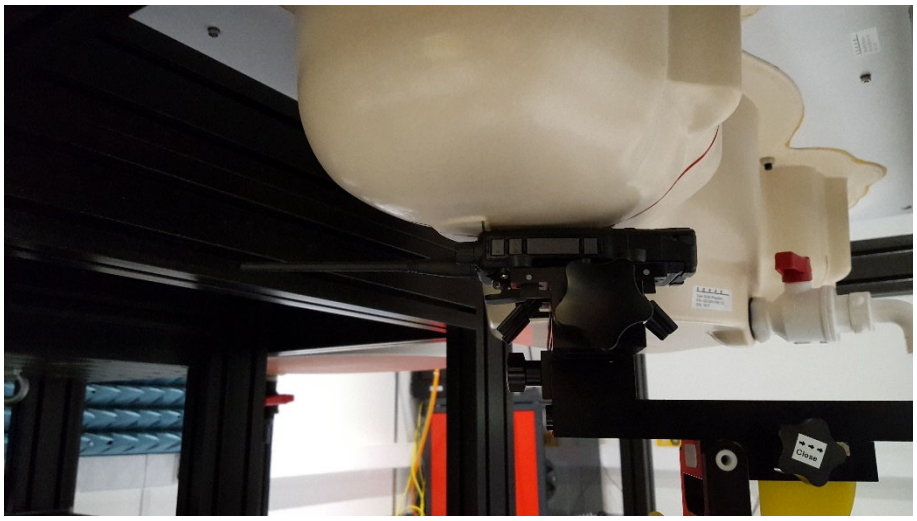


Figure 96
Right Cheek - 1160 mAh Battery (Part no: 300-01852)
¼ Wave Whip Antenna (Part no: 310-00015)

Figure 97
Left Tilt - 1160 mAh Battery (Part no: 300-01852)
¼ Wave Whip Antenna (Part no: 310-00015)

Figure 98
Left Cheek - 1160 mAh Battery (Part no: 300-01852)
¼ Wave Whip Antenna (Part no: 310-00015)

4.2 PHOTOGRAPHS OF EQUIPMENT UNDER TEST (EUT)

Figure 99
Front (Extended helical antenna part no:300-01931 fitted)
Note: Extended helical antenna part no:300-01960 has identical dimensions

Figure 100
Rear (Extended helical antenna part no:300-01931 fitted),
1160 mAh Battery (Part no: 300-01852)
Note: Extended helical antenna - part no:300-01960 has identical dimensions

Figure 101
Rear (Extended helical antenna part no:300-01931 fitted),
1160 mAh Battery (Part no: 300-01852) - Open
Note: Extended helical antenna - part no:300-01960 has identical dimensions

Figure 102
Rear (Extended helical antenna part no:300-01931 fitted),
1880 mAh Battery (Part no: 300-01853)
Note: Extended helical antenna - part no:300-01960 has identical dimensions

Figure 103
Rear (Extended helical antenna part no:300-01931 fitted),
1880 mAh Battery (Part no: 300-01853) - Open
Note: Extended helical antenna - part no:300-01960 has identical dimensions

Figure 104
Front (1/4 Wave Whip Antenna - part no: 310-00015 fitted)

Figure 105
Rear (1/4 Wave Whip Antenna - part no: 310-00015 fitted),
1160 mAh Battery (Part no: 300-01852)

Figure 106
Rear (1/4 Wave Whip Antenna - part no: 310-00015 fitted),
1160 mAh Battery (Part no: 300-01852) - Open

Figure 107
Rear (1/4 Wave Whip Antenna - part no: 310-00015 fitted),
1880 mAh Battery (Part no: 300-01853)

Figure 108
Rear (1/4 Wave Whip Antenna - part no: 310-00015 fitted),
1880 mAh Battery (Part no: 300-01853) - Open

SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

ANNEX A

PROBE CALIBRATION REPORT

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

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
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 0108**

Client TüV SÜD UK

Certificate No: EX3-3759_Dec18

CALIBRATION CERTIFICATE

Object: EX3DV4 - SN:3759

Calibration procedure(s): QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6
Calibration procedure for dosimetric E-field probes

Calibration date: December 13, 2018

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: December 13, 2018

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

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
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 0108

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Probe EX3DV4

SN:3759

Manufactured: March 16, 2010
Calibrated: December 13, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3759

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.47	0.43	0.43	± 10.1 %
DCP (mV)[B]	98.8	100.7	99.7	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	196.6	±3.5 %
		Y	0.0	0.0	1.0		173.4	
		Z	0.0	0.0	1.0		184.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	43.15	332.9	37.58	13.15	0.734	5.080	0.000	0.592	1.010
Y	49.34	366.8	35.30	18.32	0.514	5.094	0.953	0.401	1.007
Z	42.84	329.4	37.39	15.09	1.018	5.074	0.000	0.598	1.011

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3759

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
450	43.5	0.87	11.05	11.05	11.05	0.13	1.20	± 13.3 %
750	41.9	0.89	10.48	10.48	10.48	0.34	0.89	± 12.0 %
835	41.5	0.90	10.23	10.23	10.23	0.25	1.09	± 12.0 %
900	41.5	0.97	9.80	9.80	9.80	0.21	1.22	± 12.0 %
1640	40.2	1.31	8.57	8.57	8.57	0.20	0.93	± 12.0 %
1750	40.1	1.37	8.48	8.48	8.48	0.22	0.98	± 12.0 %
1900	40.0	1.40	8.14	8.14	8.14	0.30	0.85	± 12.0 %
2100	39.8	1.49	8.07	8.07	8.07	0.24	0.88	± 12.0 %
2300	39.5	1.67	7.69	7.69	7.69	0.23	0.90	± 12.0 %
2450	39.2	1.80	7.24	7.24	7.24	0.22	0.99	± 12.0 %
2600	39.0	1.96	6.98	6.98	6.98	0.26	0.99	± 12.0 %
5200	36.0	4.66	4.60	4.60	4.60	0.40	1.80	± 13.1 %
5300	35.9	4.76	4.38	4.38	4.38	0.40	1.80	± 13.1 %
5500	35.6	4.96	3.94	3.94	3.94	0.40	1.80	± 13.1 %
5600	35.5	5.07	3.91	3.91	3.91	0.40	1.80	± 13.1 %
5800	35.3	5.27	3.89	3.89	3.89	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3759

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
450	56.7	0.94	11.27	11.27	11.27	0.07	1.20	± 13.3 %
750	55.5	0.96	10.34	10.34	10.34	0.28	0.95	± 12.0 %
835	55.2	0.97	9.98	9.98	9.98	0.36	0.80	± 12.0 %
900	55.0	1.05	9.87	9.87	9.87	0.23	1.03	± 12.0 %
1640	53.7	1.42	8.59	8.59	8.59	0.29	0.83	± 12.0 %
1750	53.4	1.49	8.25	8.25	8.25	0.15	1.30	± 12.0 %
1900	53.3	1.52	7.93	7.93	7.93	0.19	0.99	± 12.0 %
2100	53.2	1.62	7.65	7.65	7.65	0.18	1.20	± 12.0 %
2300	52.9	1.81	7.52	7.52	7.52	0.29	0.90	± 12.0 %
2450	52.7	1.95	7.37	7.37	7.37	0.23	0.95	± 12.0 %
2600	52.5	2.16	7.15	7.15	7.15	0.13	1.20	± 12.0 %
5200	49.0	5.30	3.99	3.99	3.99	0.50	1.90	± 13.1 %
5300	48.9	5.42	3.81	3.81	3.81	0.50	1.90	± 13.1 %
5500	48.6	5.65	3.40	3.40	3.40	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.26	3.26	3.26	0.50	1.90	± 13.1 %
5800	48.2	6.00	3.28	3.28	3.28	0.50	1.90	± 13.1 %

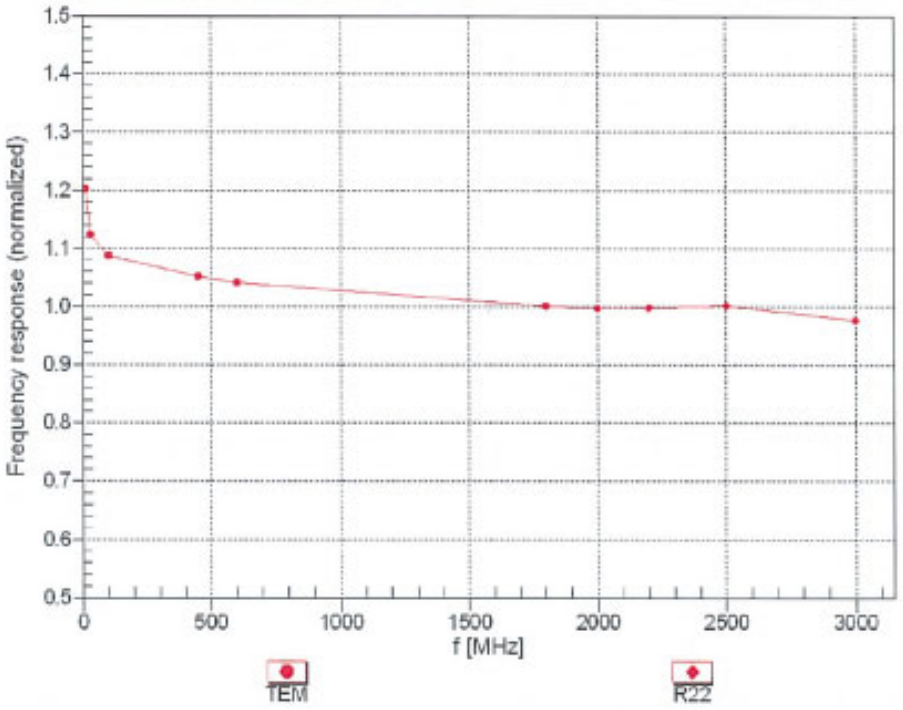
[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

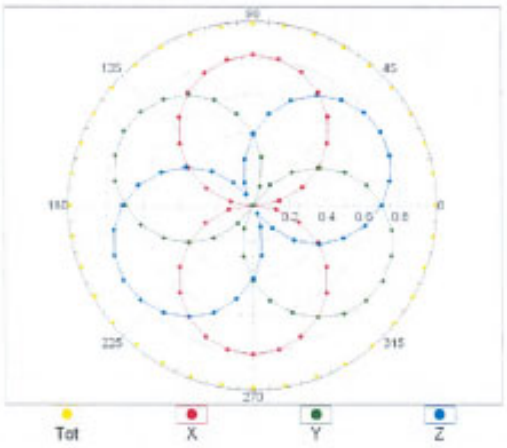
(TEM-Cell:ifi110 EXX, Waveguide: R22)



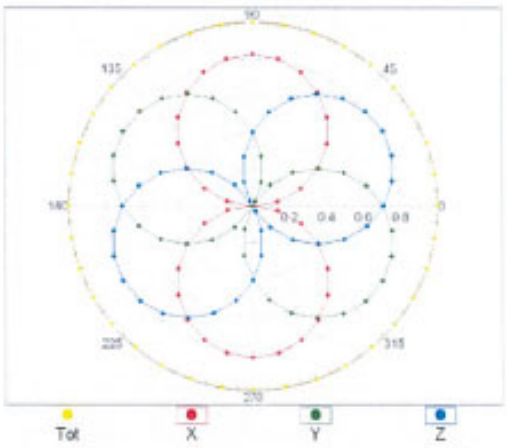
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

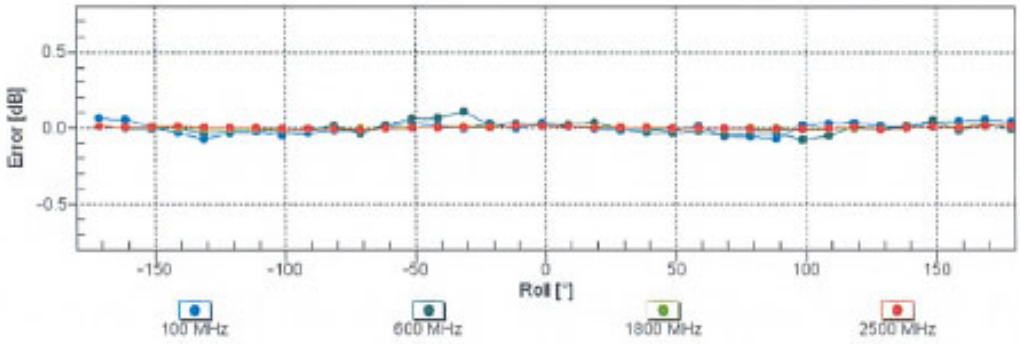
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



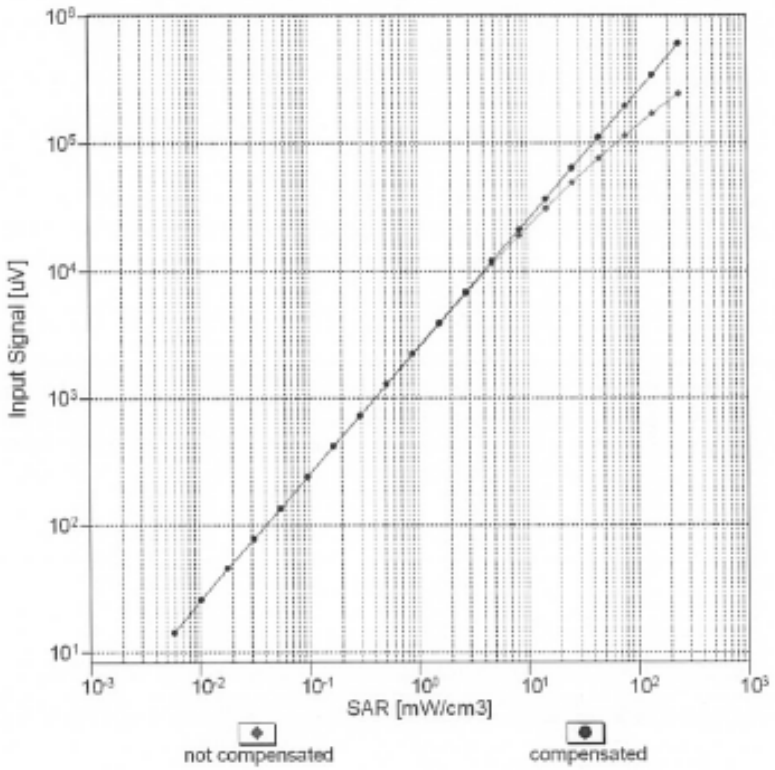
f=1800 MHz,R22

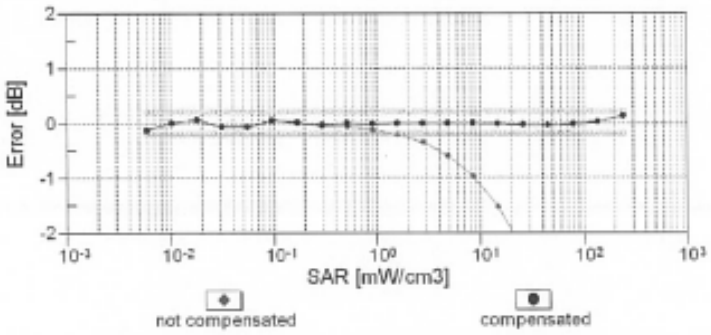




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)

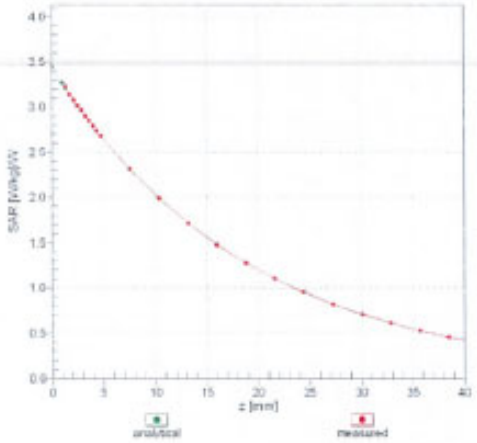




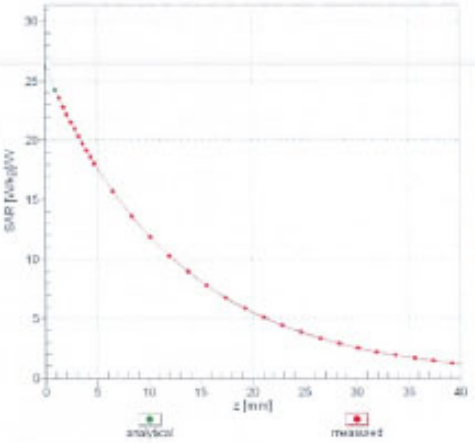
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 900 MHz,WGLS R9 (H_convF)

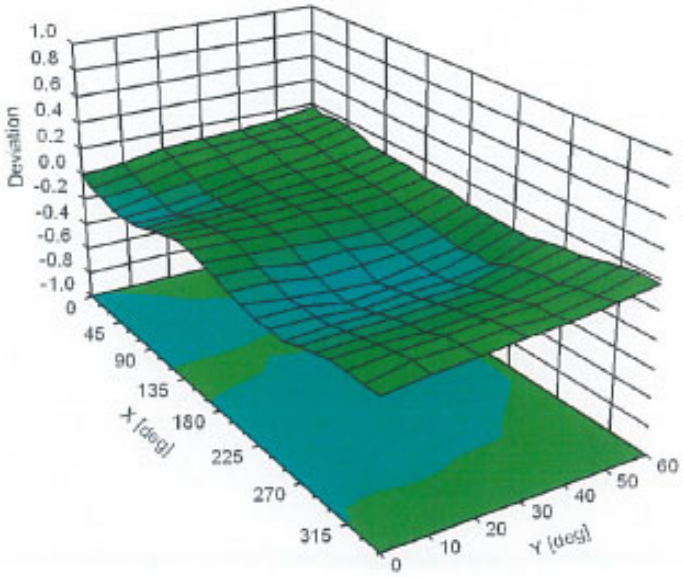


f = 1750 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3759

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-1.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max Unc[E] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	196.6	± 3.5 %
		Y	0.00	0.00	1.00		173.4	
		Z	0.00	0.00	1.00		184.7	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	2.33	65.72	10.32	10.00	20.0	± 9.6 %
		Y	4.70	74.09	14.23		20.0	
		Z	2.50	65.82	10.56		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	0.82	64.61	13.00	0.00	150.0	± 9.6 %
		Y	0.96	66.19	14.43		150.0	
		Z	0.81	65.02	13.15		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.06	62.79	14.23	0.41	150.0	± 9.6 %
		Y	1.17	63.77	15.05		150.0	
		Z	1.05	63.09	14.40		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.75	66.48	16.94	1.46	150.0	± 9.6 %
		Y	4.90	66.71	17.09		150.0	
		Z	4.74	66.56	16.96		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	113.54	27.20	9.39	50.0	± 9.6 %
		Y	100.00	117.10	28.93		50.0	
		Z	100.00	113.57	27.48		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	113.18	27.08	9.57	50.0	± 9.6 %
		Y	100.00	116.77	28.82		50.0	
		Z	100.00	113.33	27.42		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	111.17	25.03	6.56	60.0	± 9.6 %
		Y	100.00	115.70	27.38		60.0	
		Z	100.00	110.16	24.82		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.96	68.09	24.76	12.57	50.0	± 9.6 %
		Y	6.45	84.18	33.68		50.0	
		Z	3.95	66.98	23.71		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	8.81	91.01	32.27	9.56	60.0	± 9.6 %
		Y	14.33	103.33	36.99		60.0	
		Z	9.84	92.33	32.30		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	109.91	23.68	4.80	80.0	± 9.6 %
		Y	100.00	116.12	26.85		80.0	
		Z	100.00	108.13	23.12		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	108.60	22.41	3.55	100.0	± 9.6 %
		Y	100.00	117.50	26.78		100.0	
		Z	100.00	106.16	21.57		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	5.69	81.09	27.21	7.80	80.0	± 9.6 %
		Y	7.91	88.40	30.27		80.0	
		Z	6.40	82.89	27.60		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	108.69	23.44	5.30	70.0	± 9.6 %
		Y	100.00	114.15	26.27		70.0	
		Z	100.00	107.47	23.12		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	96.91	16.29	1.88	100.0	± 9.6 %
		Y	100.00	115.96	24.77		100.0	
		Z	1.42	68.65	9.07		100.0	