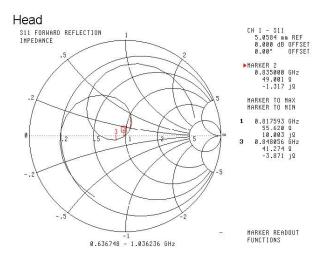
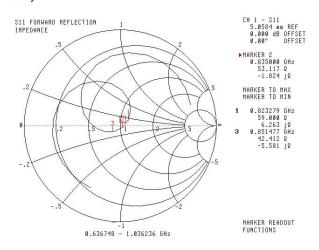
Division of APREL Laboratories.

Smith Chart Dipole Impedance



Body



This page has been reviewed for content and attested to by signature within this document.

8

SAR Evaluation Report 101 of 139

Division of APREL Laboratories.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List 2014.

9

Report No.: RSZ160125004-20

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NCL CALIBRATION LABORATORIES

Report No.: RSZ160125004-20

Calibration File No: DC-1531 Project Number: BACL-5745

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

BACL Head & Body Validation Dipole

Manufacturer: APREL Laboratories
Part number: ALS-D-1750-S-2
Frequency: 1750 MHz
Serial No: 198-00304

Customer: ISL

Calibrated: 8th October, 2013 Released on: 8th October, 2013

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

Art Brennan, Quality Manager

NCL CALIBRATION LABORATORIES

Suite 102, 303 Terry Fox Dr, OTTAWA, ONTARIO CANADA K2K 3J1 Division of APREL Lab. TEL: (613) 435-8300 FAX: (613) 435-8306

SAR Evaluation Report 103 of 139

Division of APREL Laboratories.

Conditions

Dipole 198-00304 was an original calibration.

Ambient Temperature of the Laboratory: $22 \,^{\circ}\text{C} \, +/- \, 0.5 \,^{\circ}\text{C}$ Temperature of the Tissue: $21 \,^{\circ}\text{C} \, +/- \, 0.5 \,^{\circ}\text{C}$

We the undersigned attest that to the best of our knowledge the calibration of this subject has been accurately conducted and that all information contained within the results pages have been reviewed for accuracy.

Art Brennan, Quality Manager

Constantin Teodorian, Test Engineer

2

Report No.: RSZ160125004-20

This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 104 of 139

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

Length: 75 mm Height: 42 mm

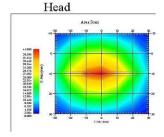
Electrical Calibration

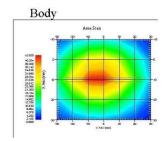
Test	Result Head	Result Body
S11 R/L	-25.567	-20.548 dB
SWR	1.111U	1.207 U
Impedance	53.637Ω	55.929 Ω

System Validation Results, 1750 MHz

100	1g	10g
Head	37.02	18.99
Body	36.65	18.85

Туре	Epsilon	Sigma	
Head	38.51	1.36	
Body	51.79	1.53	





3

Report No.: RSZ160125004-20

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SAR Evaluation Report 105 of 139

Division of APREL Laboratories.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-030 130 MHz to 26 GHz E-Field Probe Serial Number 215.

References

SSI-TP-018-ALSAS Dipole Calibration Procedure

SSI-TP-016 Tissue Calibration Procedure

IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques"

IEC-62209 "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures"

Part 1: "Procedure to determine the Specific Absorption Rate (SAR) for hand-held devices used in close proximity of the ear (frequency range of 300 MHz to 3 GHz)" IEC-62209 "Human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices – Human models, instrumentation, and procedures"

Part 2 *Draft*: "Procedure to determine the Specific Absorption Rate (SAR) for handheld devices used in close proximity of the ear (frequency range of 30 MHz to 6 GHz)"

Conditions

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C Temperature of the Tissue: 20 °C +/- 0.5°C

This was an original calibration taken from stock.

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical1%Positioning Error1.22%Electrical1.7%Tissue2.2%Dipole Validation2.2%

TOTAL 8.32% (16.64% K=2)

This page has been reviewed for content and attested to by signature within this document.

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Report No.: RSZ160125004-20

Division of APREL Laboratories.

Dipole Calibration Results

Mechanical Verification

Measured	Measured
Length	Height
75 mm	42 mm

Tissue Validation

Frequency	Permittivity ε	Conductivity σ
1750 Head	38.23	1.38
1750 Body	52.86	1.54

5

Report No.: RSZ160125004-20

This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

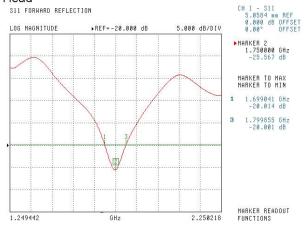
Electrical Calibration

Test	Result Head	Result Body
S11 R/L	-25.567	-20.548 dB
SWR	1.111U	1.207 U
Impedance	53.637Ω	55.929 Ω

The Following Graphs are the results as displayed on the Vector Network Analyzer.

S11 Parameter Return Loss

Head



Body



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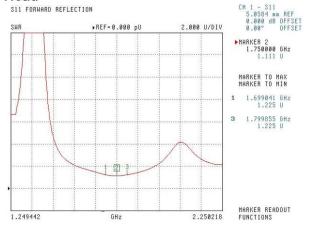
This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

SWR

Head



Body





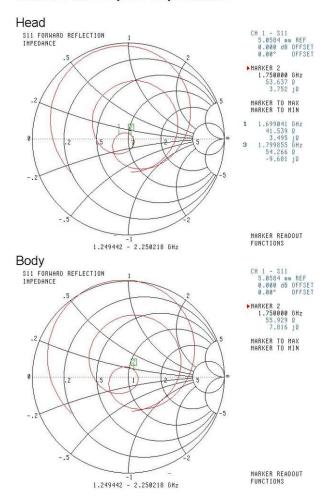
Report No.: RSZ160125004-20

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Division of APREL Laboratories.

Smith Chart Dipole Impedance



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This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 110 of 139

Division of APREL Laboratories.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2013

20.10

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Report No.: RSZ160125004-20

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SAR Evaluation Report 111 of 139

NCL CALIBRATION LABORATORIES

Report No.: RSZ160125004-20

Calibration File No: DC-1601 Project Number: BAC-dipole –cal-5779

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Validation Dipole (Head & Body)

Manufacturer: APREL Laboratories
Part number: ALS-D-1900-S-2
Frequency: 1900 MHz
Serial No: 210-00710

Customer: Bay Area Compliance Laboratory (China)

Calibrated: 9th October, 2014 Released on: 9th October, 2014

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

Art Brennan, Quality Manager

VCL CALIBRATION LABORATORIES

uite 102, 303 Terry Fox Dr. Kanata, ONTARIO CANADA K2K 3J1 Division of APREL Lab. TEL: (613) 435-8300 FAX: (613)435-8306

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Division of APREL Laboratories.

Conditions

Dipole 210-00710 was received in good condition and was a re-calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C Temperature of the Tissue: 21 °C +/- 0.5°C

Attestation

The below named signatories have conducted the calibration and review of the data which is presented in this calibration report.

We the undersigned attest that to the best of our knowledge the calibration of this subject has been accurately conducted and that all information contained within the results pages have been reviewed for accuracy.

Report No.: RSZ160125004-20

Art Brennan, Quality Manager

Maryna Nesterova ¢alibration Engineer

Primary Measurement Standards

 Instrument
 Serial Number
 Cal due date

 Tektronix USB Power Meter
 11C940
 May 14, 2015

 Network Analyzer Anritsu 37347C
 002106
 Feb. 20, 2015

This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 113 of 139

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

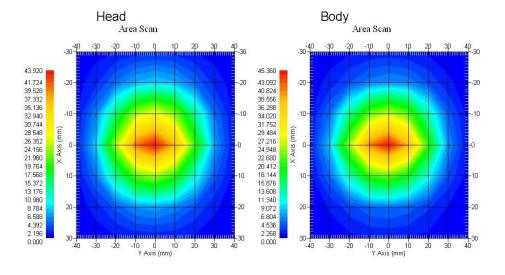
Length: 67.1 mm **Height:** 38.9 mm

Electrical Specification

Tissue	Frequency	SWR:	Return Loss	Impedance
Head	1900MHz	1.084 U	-27.92 dB	52.247 Ω
Body	1900MHz	1.128 U	-24.40 dB	52.618 Ω

System Validation Results

	Tissue	Frequency	1 Gram	10 Gram	Peak
	Head	1900 MHz	39.481	20.44	73.364
Г	Body	1900 MHz	39.715	20.552	73.565



This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 114 of 139

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Report No.: RSZ160125004-20

Division of APREL Laboratories.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole 210-00710. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-020 30 MHz to 6 GHz E-Field Probe Serial Number 225.

References

- SSI-TP-018-ALSAS Dipole Calibration Procedure
- SSI-TP-016 Tissue Calibration Procedure
- IEEE 1528:2013 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques"
- IEC-62209-1:2006 "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures"
 Part 1: "Procedure to determine the Specific Absorption Rate (SAR) for hand-held devices used in close proximity of the ear (frequency range of 300 MHz to 3 GHz)"
- IEC-62209-2:2010 "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures"
 Part 2: "Procedure to determine the Specific Absorption Rate (SAR) for hand-held devices used in close proximity of the ear (frequency range of 30 MHz to 6 GHz)"
- D28-002 Procedure for validation of SAR system using a dipole

Conditions

Dipole 210-00710 was a recalibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C Temperature of the Tissue: 20 °C +/- 0.5°C

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical1%Positioning Error1.22%Electrical1.7%Tissue2.2%Dipole Validation2.2%

TOTAL 8.32% (16.64% K=2)

4

Report No.: RSZ160125004-20

This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

Dipole Calibration Results

Mechanical Verification

APREL	APREL	Measured	Measured
Length	Height	Length	Height
68.0 mm	39.5 mm	67.1mm	38.9 mm

Electrical Validation

Tissue	Frequency	SWR:	Return Loss	Impedance
Head	1900MHz	1.084 U	-27.92 dB	52.247 Ω
Body	1900MHz	1.128 U	-24.40 dB	52.618 Ω

Tissue Validation

	Dielectric constant, ε _r	Conductivity, o [S/m]
Head Tissue 1900MHz	40.20	1.38
Body Tissue 1900MHz	52.63	1.46

5

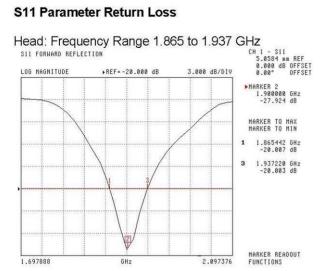
Report No.: RSZ160125004-20

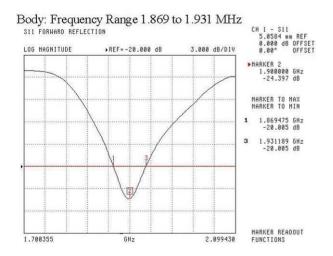
This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 116 of 139

Division of APREL Laboratories.

The Following Graphs are the results as displayed on the Vector Network Analyzer.





This page has been reviewed for content and attested to by signature within this document.

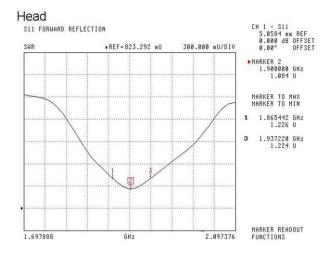
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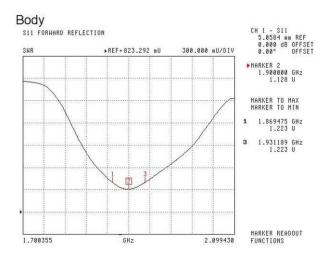
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Report No.: RSZ160125004-20

Division of APREL Laboratories.

SWR





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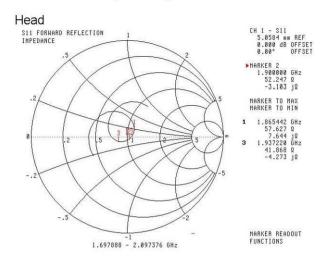
SAR Evaluation Report 118 of 139

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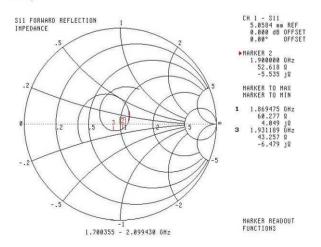
Report No.: RSZ160125004-20

Division of APREL Laboratories.

Smith Chart Dipole Impedance



Body



This page has been reviewed for content and attested to by signature within this document.

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8

Division of APREL Laboratories.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List 2014

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Report No.: RSZ160125004-20

This page has been reviewed for content and attested to by signature within this document.

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NCL CALIBRATION LABORATORIES

Report No.: RSZ160125004-20

Calibration File No: DC-1602 Project Number: BAC-dipole-cal-5779

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Validation Dipole (Head & Body)

Manufacturer: APREL Laboratories Part number: ALS-D-2450-S-2 Frequency: 2450 MHz Serial No: 220-00758

Customer: Bay Area Compliance Laboratory

Calibrated: 9th October, 2014 Released on: 9th October, 2014

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

Art Brennan, Quality Manager

e 102, 303 Terry Fox Dr. Kanata, ONTARIO CANADA K2K 3J1

CL CALIBRATION LABORATORIES Division of APREL Lab. TEL: (613) 435-8300 FAX: (613)435-8306

SAR Evaluation Report 121 of 139

Division of APREL Laboratories.

Conditions

Dipole 220-00758 was received in good condition and was a re-calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C Temperature of the Tissue: 21 °C +/- 0.5°C

Attestation

The below named signatories have conducted the calibration and review of the data which is presented in this calibration report.

We the undersigned attest that to the best of our knowledge the calibration of this subject has been accurately conducted and that all information contained within the results pages have been reviewed for accuracy.

Report No.: RSZ160125004-20

Art Brennan, Quality Manager

Maryna Nesterova Calibration Engineer

Primary Measurement Standards

 Instrument
 Serial Number
 Cal due date

 Tektronix USB Power Meter
 11C940
 May 14, 2015

 Network Analyzer Anritsu 37347C
 002106
 Feb. 20, 2015

This page has been reviewed for content and attested to by signature within this document.

SAR Evaluation Report 122 of 139

Division of APREL Laboratories.

Calibration Results Summary

The following results relate the Calibrated Dipole and should be used as a quick reference for the user.

Mechanical Dimensions

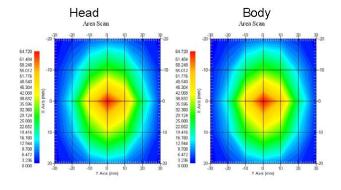
Length:52.4 mmHeight:30.3 mm

Electrical Specification

Tissue	Frequency	SWR:	Return Loss	Impedance
Head	2450 MHz	1.014 U	-45.184 dB	50.006Ω
Body	2450 MHz	1.070 U	-29.453 dB	50.672 Ω

System Validation Results

Tissue	Frequency	1 Gram	10 Gram	Peak
Head	2450 MHz	54.916	25.327	111.97
Body	2450 MHz	52.418	24.691	103.91



3

Report No.: RSZ160125004-20

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SAR Evaluation Report 123 of 139

Division of APREL Laboratories.

Introduction

This Calibration Report has been produced in line with the SSI Dipole Calibration Procedure SSI-TP-018-ALSAS. The results contained within this report are for Validation Dipole 220-00758. The calibration routine consisted of a three-step process. Step 1 was a mechanical verification of the dipole to ensure that it meets the mechanical specifications. Step 2 was an Electrical Calibration for the Validation Dipole, where the SWR, Impedance, and the Return loss were assessed. Step 3 involved a System Validation using the ALSAS-10U, along with APREL E-020 30 MHz to 6 GHz E-Field Probe Serial Number 225.

References

SSI-TP-018-ALSAS Dipole Calibration Procedure

SSI-TP-016 Tissue Calibration Procedure

IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques"

IEC-62209 "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures"

Part 1: "Procedure to determine the Specific Absorption Rate (SAR) for hand-held devices used in close proximity of the ear (frequency range of 300 MHz to 3 GHz)" IEC-62209 "Human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices – Human models, instrumentation, and procedures"

Part 2 Draft: "Procedure to determine the Specific Absorption Rate (SAR) for handheld devices used in close proximity of the ear (frequency range of 30 MHz to 6 GHz)"

Conditions

Dipole 220-00758 was a re-calibration.

Ambient Temperature of the Laboratory: $22 \,^{\circ}\text{C} \, +/- \, 0.5 \,^{\circ}\text{C}$ Temperature of the Tissue: $20 \,^{\circ}\text{C} \, +/- \, 0.5 \,^{\circ}\text{C}$

Dipole Calibration uncertainty

The calibration uncertainty for the dipole is made up of various parameters presented below.

Mechanical1%Positioning Error1.22%Electrical1.7%Tissue2.2%Dipole Validation2.2%

TOTAL 8.32% (16.64% K=2)

4

Report No.: RSZ160125004-20

This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

Dipole Calibration Results

Mechanical Verification

APREL	APREL	Measured	Measured
Length	Height	Length	Height
51.5 mm	30.4 mm	52.4 mm	30.3 mm

Electrical Specification

Tissue	Frequency	SWR:	Return Loss	Impedance
Head	2450 MHz	1.014 U	-45.184 dB	50.006Ω
Body	2450 MHz	1.070 U	-29.453 dB	50.672 Ω

Tissue Validation

	Dielectric constant, ε _r	Conductivity, o [S/m]
Head Tissue 2450MHz	37.26	1.84
Body Tissue 2450MHz	53.61	1.90

5

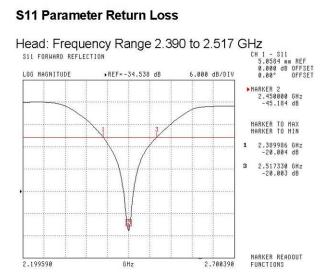
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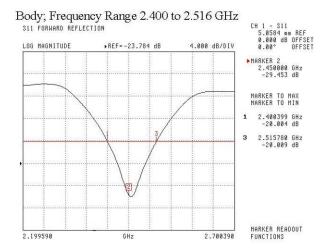
This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

The Following Graphs are the results as displayed on the Vector Network Analyzer.





This page has been reviewed for content and attested to by signature within this document.

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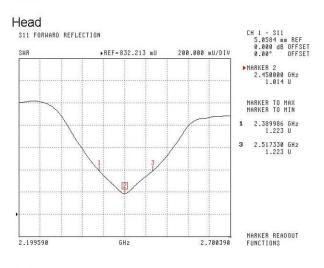
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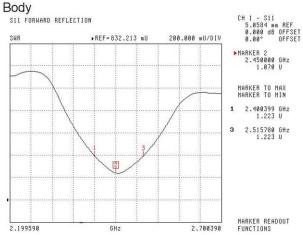
Report No.: RSZ160125004-20

NCL Calibration Laboratories

Division of APREL Laboratories.

SWR





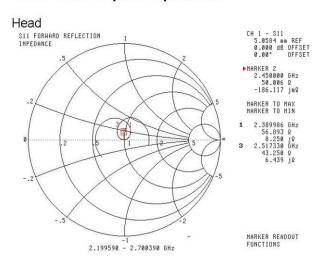
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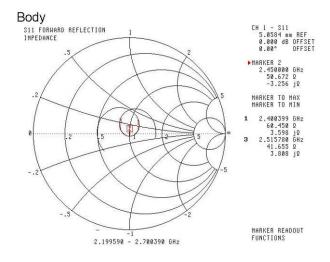
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Division of APREL Laboratories.

Smith Chart Dipole Impedance





This page has been reviewed for content and attested to by signature within this document.

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Division of APREL Laboratories.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2014.

9

Report No.: RSZ160125004-20

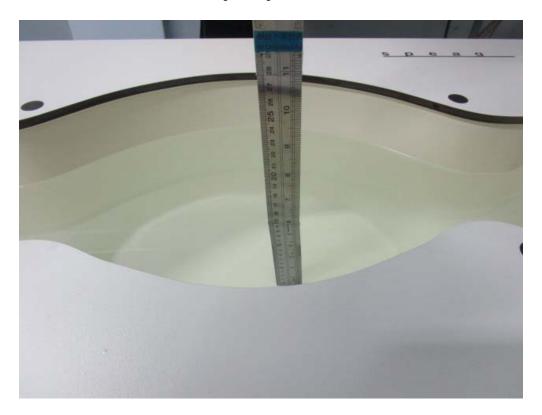
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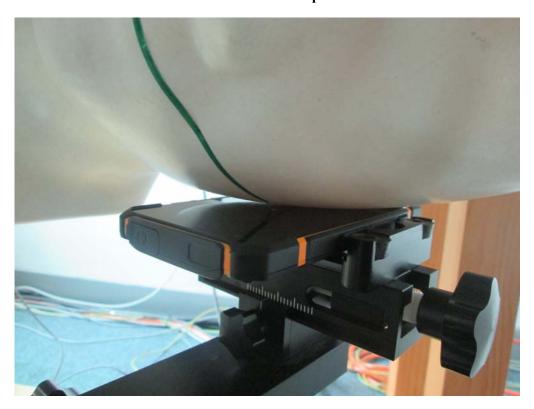
APPENDIX D EUT TEST POSITION PHOTOS

Liquid depth ≥ 15cm

Report No.: RSZ160125004-20



Left Head Touch Setup Photo



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Left Head Tilt Setup Photo

Report No.: RSZ160125004-20



Right Head Touch Setup Photo



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Right Head Tilt Setup Photo



Body-worn Back Setup Photo



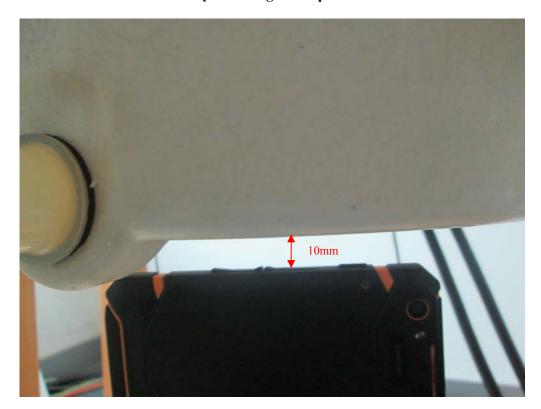
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Body-worn Left Setup Photo

Report No.: RSZ160125004-20



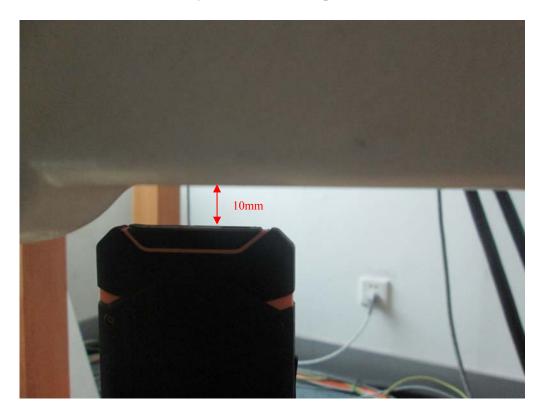
Body-worn Right Setup Photo



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Body-worn Bottom Setup Photo

Report No.: RSZ160125004-20



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APPENDIX E EUT PHOTOS

EUT – Front View

Report No.: RSZ160125004-20



EUT – Rear View



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EUT - Top View



EUT – Bottom View



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EUT – Left Side View

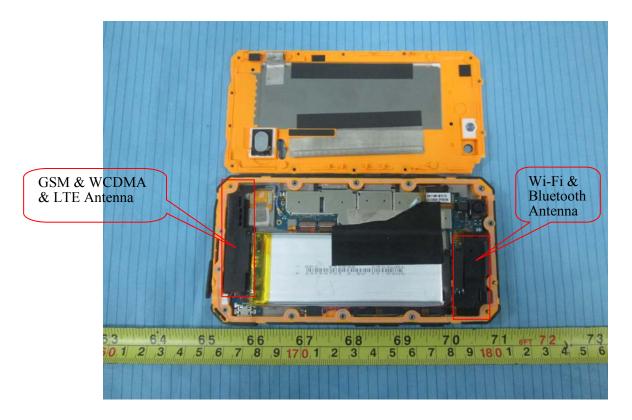


EUT – Right Side View



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EUT - Uncovered View



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APPENDIX F INFORMATIVE REFERENCES

[1] Federal Communications Commission, \Report and order: Guidelines for evaluating the environmental effects of radiofrequency radiation", Tech. Rep. FCC 96-326, FCC, Washington, D.C. 20554, 1996.

Report No.: RSZ160125004-20

- [2] David L. Means Kwok Chan, Robert F. Cleveland, \Evaluating compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields", Tech. Rep., Federal Communication Commission, O ce of Engineering & Technology, Washington, DC, 1997.
- [3] Thomas Schmid, Oliver Egger, and Niels Kuster, \Automated E-_eld scanning system for dosimetricPage 139 of 139 assessments", IEEE Transactions on Microwave Theory and Techniques, vol. 44, pp. 105{113, Jan. 1996.
- [4] Niels Kuster, Ralph K.astle, and Thomas Schmid, \Dosimetric evaluation of mobile communications equipment with known precision", IEICE Transactions on Communications, vol. E80-B, no. 5, pp. 645 (652, May 1997.
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