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PART 0 SAR CHAR REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea

Date of Testing: 06/28/21 - 07/13/21 **Test Site/Location:** PCTEST Lab, Columbia, MD, USA **Document Serial No.:** 1M2106230070-23.A3L

FCC ID: A3LSMF926JPN

APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Part 0 SAR Characterization

DUT Type: Portable Handset Model(s): SC-55B, SCG11

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Test results reported herein relate only to the item(s) tested.

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.







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DEVICE UNDER TEST

1.1 **Device Overview**

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6525 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

This device uses the Qualcomm[®] Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G WWAN operations. Additionally, this device supports WLAN/BT/NFC technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

1.2 Time-Averaging for SAR and Power Density

This device is enabled with Qualcomm[®] Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G Characterization is achieved by determining PLimit for 2G/3G/4G that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR design target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 1.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying)

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transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

1.3 Nomenclature for Part 0 Report

Technology	Term	Description
00/00/40/50	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
2G/3G/4G/5G Sub-6 NR	P _{max}	Maximum tune up output power
Sub-6 INK	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR Char	Table containing <i>Plimit</i> for all technologies and bands

Bibliography 1.4

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1M2106230070-01.A3L

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SAR AND POWER DENSITY MEASUREMENTS

2.1 **SAR Definition**

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1 **SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

conductivity of the tissue-simulating material (S/m) mass density of the tissue-simulating material (kg/m³) ρ

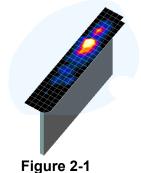
F Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

2.2 **SAR Measurement Procedure**

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.



Sample SAR Area Scan

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- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 2-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

F	Maximum Area Scan Maximum Zoom Scan Resolution (mm) Resolution (mm)		Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan
Frequency	(Δx _{area} , Δy _{area})	(Δx _{200m} , Δy _{200m})	Uniform Grid	Gi	raded Grid	Volume (mm) (x,y,z)
			$\Delta z_{zoom}(n)$	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	
≤ 2 GHz	≤15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤ 2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥25
5-6 GHz	≤10	≤ 4	≤2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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3.1 **DSI** and **SAR** Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1 **DSI and Corresponding Exposure Scenarios**

Scenario	Description	SAR Test Cases
Head – Folder Open (DSI = 3)	Device positioned next to headReceiver ActiveFolder Open	Head SAR per KDB Publication 648474 D04
Head – Folder Closed (DSI = 4)	Device positioned next to headReceiver ActiveFolder Closed	Head SAR per KDB Publication 648474 D04
Hotspot mode – Folder Open (DSI = 5)	 Device transmits in hotspot mode near body Hotspot Mode Active Folder Open 	UMPC Mini-Tablet SAR per KDB 941225 D07v01r02
Hotspot mode – Folder Closed (DSI = 6)	 Device transmits in hotspot mode near body Hotspot Mode Active Folder Closed 	Hotspot SAR per KDB Publication 941225 D06
Extremity Grip – Folder Open (DSI=1 or 7)	 Device is held with hand and grip sensor is triggered Grip sensor triggered or earjack is active Folder Open 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Phablet Grip – Folder Closed (DSI=2 or 8)	 Device is held with hand and grip sensor is triggered Grip sensor triggered or earjack is active Folder Closed 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Extremity – Folder Open (DSI = 0)	 Device is held with hand and grip sensor is not triggered Distance grip sensor not triggered Folder Open 	UMPC Mini-Tablet SAR per KDB 941225 D07v01r02
Phablet – Folder Closed (DSI = 11)	 Device is held with hand and grip sensor is not triggered Distance grip sensor not triggered Folder Closed 	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn – Folder Open (DSI = 0)	Device being used with a body-worn accessoryFolder Open	UMPC Mini-Tablet SAR per KDB 941225 D07v01r02
Body-worn – Folder Closed (DSI = 11)	Device being used with a body-worn accessoryFolder Closed	Body-worn SAR per KDB Publication 648474 D04

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3.2 **SAR Design Target**

SAR design target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2).

> Table 3-2 SAR design target Calculations

SAR_design_target								
$SAR_design_target < SAR_regulatory_limit imes 10^{rac{-Total\ Uncertainty}{10}}$								
1g SAR (W/kg)		10g SAR (W/kg)						
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB					
Total Uncertainty SAR_regulatory_limit	1.0 dB 1.6 W/kg	Total Uncertainty SAR_regulatory_limit	1.0 dB 4.0 W/kg					

3.3 **SAR Char**

SAR test results corresponding to Pmax for each antenna/technology/band/DSI can be found in Appendix A.

Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the SAR design target. When Plimit < Pmax, Ppart0 was used as Plimit in the Smart Transmit EFS. When Plimit > Pmax and Ppart0=Pmax, calculated Plimit was used in the Smart Transmit EFS. All reported SAR obtained from the Ppart0 SAR tests was less than SAR_Design_target+ 1 dB Uncertainty. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 3-3.

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Table 3-3 **PLimit Determination**

Device State Index (DSI)	PLimit Determination Scenarios
0 or 11	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. UMPC 1g SAR folder open a. Measured at 12 and 16 mm fro back and bottom surfaces respectively. b. Measured at 10 mm for front, left and right surfaces. 2. Body Worn SAR folder closed. 3. UMPC 10g SAR folder open. a. Measured at 12, 9 and 16 mm for back, front, and bottom surfaces respectively. b. Measured at 0 mm for left and right surfaces 4. Extremity SAR folder closed. a. Measured at 10 and 12 mm spacing for back and bottom respectively b. Measured at 0 mm for front, left and right surfaces
1 or 7	<i>P_{limit}</i> is calculated based on 1g Body SAR at 10 mm for back and bottom surfaces and 10g Extremity SAR at 0 mm for back, front, and bottom surfaces with folder open
2 or 8	<i>P_{limit}</i> is calculated based on 10g Extremity SAR at 0 mm for back, front, and bottom surfaces with folder closed
3 or 4	P _{limit} is calculated based on 1g Head SAR
5 or 6	P _{limit} is calculated based on 1g Hotspot SAR at 10 mm

Note:

For DSI = 0, P_{limit} is calculated by:

 $P_{limit} = \min\{P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 15 mm spacing,}$

 P_{limit} corresponding to 1g Body SAR evaluation at 10 mm spacing for front, right and left surfaces

 P_{limit} corresponding to 1g Body SAR evaluation at 12~16 mm spacing,

 P_{limit} corresponding to 10g Extremity SAR evaluation at 9~16 mm spacing,

 P_{limit} corresponding to 10g Extremity SAR evaluation at 0 mm for left and right surfaces}

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Table 3-4 SAR Characterizations

Exposure Scenario):	Body-Worn Phablet Body Extremity			Grip Sens	or Active	He	ad	Hotspot		Earjack			
Averaging Volume	:	1g	10g	1g	10g	10g	1g, 10g	1g	1g	1g	1g	10g	10g	Maximum Tune-up
Spacing:		15 mm	10, 12 mm	12, 10, 16 mm	12, 9, 16 mm	0 mm	10, 0 mm	0 mm	0 mm	10 mm	10 mm	0 mm	0 mm	Output Power*
DSI:		11	11	0	0	2	1	4	3	6	5	8	7	
Configuration		Folder	Folder Closed Folder Open Folder Closed Folder Open				Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	
Technology/Band	Antenna		Plimit corresponding to 1mW/g (SAR_design_target)							Pmax				
GSM/GPRS/EDGE 850 MHz	A, A+B	30).5	29	9.9	29.6	27.8	32.3	32.3	30.9	27.8	29.6	27.8	25.3
GSM/GPRS/EDGE 1900 MHz	В	26	5.4	23	3.6	17.3	17.3	34.8	34.8	17.3	17.3	17.3	17.3	22.1
UMTS B5	A, A+B	28	3.4	29.3		28.4	28.2	32.7	32.7	29.6	28.2	28.4	28.2	24.8
LTE FDD B12	A, A+B	27	7.6	28	3.0	27.6	28.0	32.8	32.8	28.7	28.0	27.6	28.0	24.8
LTE FDD B13	A, A+B	28	3.1	28	3.8	28.1	27.9	33.5	33.5	29.7	27.9	28.1	27.9	24.8
LTE FDD B5	A, A+B	27	7.1	28	3.7	27.1	27.9	33.1	33.1	30.0	28.1	27.1	28.1	24.8
LTE FDD B4	В	27	7.8	25	5.9	18.0	18.0	35.3	35.3	18.0	18.0	18.0	18.0	24.5
LTE TDD B41	В	28	3.8	23	3.5	16.0	16.0	33.8	33.8	16.0	16.0	16.0	16.0	20.0

Notes:

- 1. For all modes/bands, when Hotspot Mode (DSI=5,6) and Extremity sensor (DSI=1, 2) are triggered at the same time, DSI=1, 2 takes priority, thus the P_{limit} for DSI=1, 2 is set to be less or equal to P_{limit} for DSI=5, 6.
- 2. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .
- 3. P_{limit} for DSI=1 and DSI =7 are the same.
- 4. P_{limit} for DSI=2 and DSI =8 are the same.

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4 EQUIPMENT LIST

For SAR measurements

Description	Agilent	8594A 85033E E4438C E4438C	(9kHz-2.9GHz) Spectrum Analyzer 3.5mm Standard Calibration Kit ESG Vector Signal Generator	CBT 7/7/2021 12/14/2020	N/A Annual Biennial	CBT 7/7/2022 12/14/2022	3051A00187 MY53402352 MY42082385
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Agricul 6435E	Agilent Agilent Agilent Agilent Agilent Agilent Agilent	E4438C	ESG Vector Signal Generator ESG Vector Signal Generator	12/14/2020	Biennial	12/14/2022	
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April				12/18/2021		12/18/2021	1126066
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Control Company							
Control Company	Control Company						
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Control Company			Therm./ Clock/ Humidity Monitor Therm./ Clock/ Humidity Monitor				
Intelligent Weight PO-3000 Electronic Balance CBT N/A CBT 11081354			Therm./ Clock/ Humidity Monitor				
Intelligent Weighing Po 3000		PD-3000		CBT	N/A	CBT	11081534
Repigit Picthrologies	Intelligent Weighing	PD-3000					120405017
MCCC SW-N6W5-		772D					MY52180215
MonCircusts							
MonCircusts							
Mon-Circuits							
Memis-Circuits			Low Pass Filter				
Memic Cruzit Ni-2950+ Low Pass Timer Col 2700 Mile CBT Ni/A							
Mini-Crusts							
Nurds		BW-N20W5	Power Attenuator	CBT		CBT	1226
Pasternack							
Pattermack PE2208-6 Bidirectional Coupler CBT N/A CBT N/A							
Pastemack NC-100 Tonge Werech 84/2020 Bervill 18/4/2022 N/A			Attenuator (3dB)				9406
Patternack No.100 Tonge Werench 84/2020 Bernial 84/2022 N/A			Bidirectional Coupler		N/A		N/A N/A
Pattermack No.100 Torque Werench 8,47,202 Berenal 8,47,202 N/A					Biennial		
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Behne B Schwarz CMWISGO Radio Communication Fester 2718/2021 Annual 17/18/2022 1031767							
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Robote R. Schwarz CMW/000 Radio Communication Tester 3/19/2012 Annual 3/19/2012 128035 Robote R. Schwarz CMW/000 Radio Communication Tester 3/19/2012 Annual 3/19/2012 128036 Robote R. Schwarz CMW/000 Radio Communication Tester 3/19/2012 Annual 3/19/2012 128036 Robote R. Schwarz CMW/000 Radio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Annual 3/19/2012 130137 Robote R. Schwarz CMW/000 Wideband Rodio Communication Tester 3/19/2012 Robote R. Schwarz CMW/000 Robote R. Schwarz							
Robine 8 Schwarz	Rohde & Schwarz				Annual	3/19/2022	128633
Bohde 8 Schwarz	Rohde & Schwarz	CMW500	Radio Communication Tester	5/11/2021	Annual	5/11/2022	128636
Bohle & Schwarz CMW500							
Robbe 8. Schwarz CMW000							
	Rohde & Schwarz		Wideband Radio Communication Tester				
Serkonk Nr. 100					Politicus		
Seebook Inc. No. 1-100							
SPRAG D750V3 750 MHz SAR Oppole 3/16/2020 Blennial 3/16/2022 1030	Seekonk Inc	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
SPRAG D75093 750 MH2 SAR Dipole 3/16/2020 Blennial 3/16/2022 40547 SPRAG D835V2 835 MH2 SAR Dipole 3/17/2013 Annual 1/17/2022 40547 SPRAG D835V2 835 MH2 SAR Dipole 10/17/2021 Annual 1/17/2022 40547 SPRAG D835V2 835 MH2 SAR Dipole 10/17/2021 Annual 1/17/2022 40547 SPRAG D835V2 835 MH2 SAR Dipole 10/17/2021 Annual 1/17/2022 40547 SPRAG D835V2 835 MH2 SAR Dipole 10/17/2021 SPRAG D835V2 835 MH2 SAR Dipole 5/17/2020 Blennial 5/17/2022 1365 SPRAG D1500V2 1900 MH2 SAR Dipole 10/17/2018 Trinemial 10/17/2021 50580 SPRAG D2500V2 2405 MH2 SAR Dipole 10/17/2018 Trinemial 10/17/2021 50580 SPRAG D2500V2 2405 MH2 SAR Dipole 10/17/2018 Trinemial 10/17/2021 50580 SPRAG D2500V2 2405 MH2 SAR Dipole 10/17/2018 Trinemial 10/17/2022 1004 SPRAG D2500V2 2405 MH2 SAR Dipole 1/17/2071 Annual 1/19/2022 9814 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1004 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1004 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1004 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1004 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1107 SPRAG D2500V2 360 MH2 SAR Dipole 4/17/2019 Annual 1/19/2022 1107 SPRAG D250			750 MHz SAR Dipole			10/19/2021	
SPEAG DESSV2						3/16/2022	
SPEAG DESSV2							
SPEAG D15/00/2 175/04/2 175/04/2 SAD Dipole 5/12/2000 Biennial 5/12/2002 136/08/0 SPEAG D15/00/2 150/04/2 SAD Dipole 10/12/2018 Trimenial 10/12/2002 156/08/0 SPEAG D15/00/2 150/04/2 SAD Dipole 10/12/2018 Trimenial 10/12/2002 5/6/08/0 SPEAG D25/00/2 26/04/16/2 SAD Dipole 8/14/2000 Armail 5/12/2002 7/19 SPEAG D25/00/2 26/04/16/2 SAD Dipole 6/14/2000 Armail 5/12/2002 10/14/2000 SPEAG D25/00/2 26/04/16/2 SAD Dipole 6/14/2009 Armail 5/12/2002 10/14/2009 SPEAG D25/00/2 26/04/16/2 SAD Dipole 6/14/2009 Armail 5/12/2002 10/14/2009 SPEAG D25/00/2 SOURCE SAD Dipole SPEAG D25/00/2 SOURCE SAD Dipole SPEAG D25/00/2 SAD DIPOLE SPEAG DA6/4 Da9/04/2 SOURCE SAD Dipole SPEAG D36/04/2 SAD DIPOLE SPEAG DA6/4 Da9/04/2 D49/04/2 D49		D835V2	835 MHz SAR Dipole 835 MHz SAR Dipole			10/10/2022	
SPEAG D1500V2 1900 MHz SAD Depole 10723/2018 Triemmal 10723/2012 56149							
SPEAG D350072 2450 MHz SAD Dipole 81/47/201 Armsul 81/47/201 719	SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d080
SPEAG D2550VZ 2450 MHz SAD Dipole 1/19/2012 Annual 1/19/2022 981 SPEAG D2550VVZ 2600 MHz SAD Dipole 6/14/2019 Finemial 6/14/2012 1064 SPEAG D556VVZ 5 GHZ SAD Dipole 6/14/2019 Annual 1/19/2022 1064 SPEAG D564VVZ 5 GHZ SAD Acqualition Electronics 3/14/2023 Annual 3/16/2022 1272 SPEAG DA64 Daby Data Acqualition Electronics 1/15/2020 Annual 1/15/2021 1322 SPEAG DA64 Daby Data Acqualition Electronics 1/15/2020 Annual 1/15/2021 1333 SPEAG DA64 Daby Data Acqualition Electronics 6/15/2021 Annual 1/15/2022 1340 SPEAG DA64 Daby Data Acqualition Electronics 4/17/2021 Annual 1/15/2022 1407 SPEAG DA64 Daby Data Acqualition Electronics 3/17/2021 Annual 3/11/2022 1407 SPEAG DA64 Daby Data Acqualition Electronics 3/17/2020							
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SPEAG			Dasy Data Acquisition Electronics				
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SPEAG DA64 Day Data Acquisition Electronics \$910/2000 Annual \$910/2001 1448 SPEAG DA64 Dasy Data Acquisition Electronics \$117/2001 Annual \$117/2001 153 SPEAG DA64 Dasy Data Acquisition Electronics \$127/7000 Annual \$117/2001 153 SPEAG DA64 Dasy Data Acquisition Electronics \$113/3001 Annual \$117/2002 1558 SPEAG EXDUM SAR Probe \$170/2001 Annual \$170/2002 \$158 SPEAG EXDUM SAR Probe \$71/2000 Annual \$170/2001 7308 SPEAG EXDUM SAR Probe \$61/2001 Annual \$170/2002 7308 SPEAG EXDUM SAR Probe \$71/2000 Annual \$71/2002 7409 SPEAG EXDUM SAR Probe 31/6/2001 Annual \$11/2002 7526 SPEAG EXDUM SAR Probe 31/6/2001 Annual 31/6/2002 7526 SPEAG		DAE4	Dasy Data Acquisition Electronics				
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SPEAG EXDIVA SAR Probe 44/39/2021 Annual 44/39/2022 73/39 SPEAG EXDIVA SAR Probe 66/12/2021 Annual 67/12/2022 74/69 SPEAG EXDIVA SAR Probe 7/20/2020 Annual 7/20/2021 74/69 SPEAG EXDIVA SAR Probe 3/16/2021 Annual 7/20/2021 73/66 SPEAG EXDIVA SAR Probe 11/23/2020 Annual 11/23/2021 75/36 SPEAG EXDIVA SAR Probe 11/23/2020 Annual 11/23/2021 75/38 SPEAG EXDIVA SAR Probe 11/23/2020 Annual 11/23/2021 75/38							
SPEAG EXIDV4 SAR Probe 6,712,021 Annual 6,712,022 7499 SPEAG EXIDV4 SAR Probe 7,72,02020 Annual 7,00,0201 7410 SPEAG EXIDV4 SAR Probe 3,16,7021 Annual 3,16,7022 7536 SPEAG EXIDV4 SAR Probe 11,723,7020 Annual 11,723,7021 7536 SPEAG EXIDV4 SAR Probe 10,700,7020 Annual 11,723,7021 7538 SPEAG EXIDV4 SAR Probe 10,700,7020 Annual 10,700,7021 7539							
SPEAG EXBDM4 SAR Probe 3/16/2021 Annual 3/16/2022 7526 SPEAG EXBV4 SAR Probe 11/23/2020 Annual 11/23/2021 7538 SPEAG EXBV4 SAR Probe 10/20/2020 Annual 11/23/2021 7539 SPEAG EXBV4 SAR Probe 10/20/2020 Annual 10/20/2020 7539							
SPEAG EX30V4 SAR Probe \$11/23/2020 Annual \$11/23/2021 7538 SPEAG EX30V4 SAR Probe \$10/20/2020 Annual \$10/20/2021 7539					Annual		
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345 EA3DV4 345 FIODE 10/20/2020 ANNUAL 10/20/2021 /551	SPEAG SPEAG						
SPEAG EX3DV4 SAR Probe 12/11/2020 Annual 12/11/2021 7571	SPEAG SPEAG SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7539

Note:

- CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter
 were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter
 offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter
 before measurements are made. This calibration verification procedure applies to the system verification and output power
 measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final
 power measurements.
- Each equipment item was used solely within its respective calibration period.

FCC ID: A3LSMF926JPN	Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 11 of 12
1M2106230070-23.A3L	06/28/21 - 07/13/21	Portable Handset	Fage 11 01 12

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For SAR Measurements

Measurement System Probability Probabi	a	b	С	d	e=	f	g	h =	i =	k	
					f(d.k)			c x f/e	c x g/e		
Sec		IFFF	Tol	Proh	. (4-)-17	C.	C.				
Measurement System	Uncertainty Component	1528			Div			Ŭ	Ü	.,	
Measurement System E.2.1 7 N 1 1 1 7.0 7.0 ∞ Axial Isotropy E.2.2 0.25 N 1 0.7 0.7 0.2 0.2 ∞ Hemishperical Isotropy E.2.2 0.25 N 1 0.7 0.7 0.2 0.2 ∞ Boundary Effect E.2.4 0.3 N 1 0.7 0.7 0.9 0.9 ∞ System Detection Limits E.2.4 0.3 N 1 1 1 0.3 0.3 ∞ System Detection Limits E.2.4 0.25 R 1.732 1 1 0.1	, , ,	Sec.	(± /0)	Dist.	DIV.	igiii	TO gills			v _i	
Residence Resi	Measurement System			ļ				(= 70)	(= 70)		
Hemishperical Isotropy E.2.2 1.3 N 1 0.7 0.7 0.9 0.9 0.9 Boundary Effect E.2.3 2 R 1.732 1 1 1.2 1.2 0.0 System Detection Limits E.2.4 0.3 N 1 1 1 0.1 0.1 0.1 0.0 0.0 System Detection Limits E.2.4 0.25 R 1.732 1 1 0.1 0.1 0.1 0.0 0.0 System Detection Limits E.2.4 0.25 R 1.732 1 1 0.1 0.1 0.1 0.0 0.0 System Detection Limits E.2.5 4.8 R 1.732 1 1 0.1 0.1 0.1 0.0 0.0 Readout Electronics E.2.6 0.3 N 1 1 1 0.3 0.3 0.3 0.0 Readout Electronics E.2.6 0.3 N 1 1 1 0.0 0.0 0.0 0.0 Response Time E.2.7 0.8 R 1.732 1 1 0.0 0.0 0.0 0.0 Integration Time E.2.8 2.6 R 1.732 1 1 0.1 0.1 0.1 0.0 0.0 0.0 RF Ambient Conditions - Noise E.6.1 3 R 1.732 1 1 0.7 0.7 0.0 0.0 RF Ambient Conditions - Reflections E.6.1 3 R 1.732 1 1 0.7 0.7 0.0 0.0 0.0 Probe Positioning M/ respect to Phantom E.6.3 6.7 R 1.732 1 1 0.3 0.5 0.5 0.0 0.0 Extrapolation, Interpolation & Integration algorithms for Max, SAR Evaluation E.4 3.12 N 1 1 3.1 3.1 3.1 3.5 Extrapolation, Interpolation & E.4 3.12 N 1 1 1 0.0 0.0 0.0 0.0 Extrapolation Sangle Positioning E.4 3.12 N 1 1 1 0.0 0.0 0.0 0.0 SAR Scaling E.4 0.6 R 1.732 1 1 0.0 0.0 0.0 0.0 Phantom & Tissue Parameters E.2 5 R 1.732 1 1 0.0 0.0 0.0 0.0 Phantom Uncertainty (Shape & Thickness tolerance) E.3.1 7.6 R 1.73 0.1 0.1 0.1 0.0 0.0 0.0 0.0 Phantom Uncertainty (Shape & Thickness tolerance) E.3.1 0.6 R 1.73 0.6 0.7 0.1 0.1 0.1 0.0 0.0 0.0 0.0 Liquid Conductivity - measurement uncertainty E.3.4 0.6 R 1.73 0.6 0.7 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞	
Boundary Effect E.2.3 2	Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞	
E.2.4 0.3 N 1 1 1 0.3 0.3 ∞	Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	8	
System Detection Limits	Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	8	
Modulation Response	Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	8	
Readout Electronics E.2.6 0.3 N 1 1 1 0.3 0.3 ∞ Response Time E.2.7 0.8 R 1.732 1 1 0.5 0.5 ∞ Integration Time E.2.8 2.6 R 1.732 1 1 1.5 1.5 ∞ RF Ambient Conditions - Noise E.6.1 3 R 1.732 1 1 1.7 1.7 ∞ RF Ambient Conditions - Noise E.6.1 3 R 1.732 1 1 1.7 1.7 ∞ RF Ambient Conditions - Noise E.6.1 3 R 1.732 1 1 1.7 1.7 ∞ Probe Positioning where the Positioning where the Phantom E.6.2 0.8 R 1.732 1 1 0.5 0.5 0.5 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.6.2 0.8 1.732 1 1 0.5 0.5 0.5 ∞<	System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	8	
Response Time E.2.7 0.8 R 1.732 1 1 0.5 0.5 ∞	Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	8	
Integration Time	Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	8	
RF Ambient Conditions - Noise E.6.1 3 R 1.732 1 1 1.7 1.7 © RF Ambient Conditions - Reflections E.6.1 3 R 1.732 1 1 1.7 1.7 © Probe Positioner Mechanical Tolerance E.6.2 0.8 R 1.732 1 1 0.5 0.5 © Probe Positioning W/ respect to Phantom E.6.3 6.7 R 1.732 1 1 0.5 0.5 © Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 3.9 3.9 © Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 3.9 3.9 © Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 2.3 3.3 3.3 1 1 1 3.1 3.1 3.1 1	Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	8	
RF Ambient Conditions - Reflections E.6.1 3 R 1.732 1 1 1.7 1.7 ∞ Probe Positioner Mechanical Tolerance E.6.2 0.8 R 1.732 1 1 0.5 0.5 ∞ Probe Positioning w/ respect to Phantom E.6.3 6.7 R 1.732 1 1 3.9 3.9 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.6.3 6.7 R 1.732 1 1 3.9 3.9 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.6.3 4 R 1.732 1 1 3.9 3.9 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.6.3 4 R 1.732 1 1 2.3 2.3 2.3 ∞ Test Sample Related Test Sample Related Test Sample Positioning E.4.1 1.67 N 1 1 1 1.7 1.7 5 Test Sample Related <td col<="" td=""><td>Integration Time</td><td>E.2.8</td><td>2.6</td><td>R</td><td>1.732</td><td>1</td><td>1</td><td>1.5</td><td>1.5</td><td>8</td></td>	<td>Integration Time</td> <td>E.2.8</td> <td>2.6</td> <td>R</td> <td>1.732</td> <td>1</td> <td>1</td> <td>1.5</td> <td>1.5</td> <td>8</td>	Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	8
Probe Positioner Mechanical Tolerance E.6.2 0.8 R 1.732 1 1 0.5 0.5 ∞ Probe Positioning w/ respect to Phantom E.6.3 6.7 R 1.732 1 1 3.9 3.9 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 3.9 3.9 ∞ Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 2.3 2.3 ∞ Test Sample Related Test Sample Positioning E.4.2 3.12 N 1 1 1 3.1 3.1 3.5 Device Holder Uncertainty E.4.1 1.67 N 1 1 1.7 1.7 5 Output Power Variation - SAR drift measurement E.2.9 5 R 1.732 1 1 2.9 2.9 ∞ SAR Scaling E.4.1 1.67 <td< td=""><td>RF Ambient Conditions - Noise</td><td>E.6.1</td><td>3</td><td>R</td><td>1.732</td><td>1</td><td>1</td><td>1.7</td><td>1.7</td><td>8</td></td<>	RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	8	
Probe Positioning W/ respect to Phantom E.6.3 6.7 R 1.732 1 1 3.9 3.9 ∞	RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	8	
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation E.5 4 R 1.732 1 1 2.3 2.3 ∞ Test Sample Related Test Sample Positioning E.4.2 3.12 N 1 1 3.1 3.1 3.1 3.5 Device Holder Uncertainty E.4.1 1.67 N 1 1 1 1 1.7 1.7 5. Output Power Variation - SAR drift measurement E.2.9 5 R 1.732 1 1 1 2.9 2.9 ∞ SAR Scaling E.6.5 0 R 1.732 1 1 1 0.0 0.0 ∞ Phantom & Tissue Parameters Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.73 0.60 0.49 1.7 1.4 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 1.2 24.4 24.0 E	Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	8	
for Max. SAR Evaluation E.5 4 R 1.732 1 2.3 2.3 © Test Sample Related Test Sample Positioning E.4.2 3.12 N 1 1 1 3.1 3.5 3.5 Device Holder Uncertainty E.4.1 1.67 N 1 1 1 1.7 1.7 5 Output Power Variation - SAR drift measurement E.2.9 5 R 1.732 1 1 2.9 2.9 ∞ SAR Scaling E.6.5 0 R 1.732 1 1 0.0 0.0 ∞ Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.4 3.4 R 1.732 0.78 0.71 <t< td=""><td>Probe Positioning w/ respect to Phantom</td><td>E.6.3</td><td>6.7</td><td>R</td><td>1.732</td><td>1</td><td>1</td><td>3.9</td><td>3.9</td><td>8</td></t<>	Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	8	
Test Sample Positioning		E.5	4	R	1.732	1	1	2.3	2.3	8	
Device Holder Uncertainty E.4.1 1.67 N 1 1 1 1.7 1.7 5 Output Power Variation - SAR drift measurement E.2.9 5 R 1.732 1 1 2.9 2.9 ∞ SAR Scaling E.6.5 0 R 1.732 1 1 0.0 0.0 ∞ Phantom & Tissue Parameters Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R	Test Sample Related								-		
Output Power Variation - SAR drift measurement E.2.9 5 R 1.732 1 1 2.9 2.9 ∞ SAR Scaling E.6.5 0 R 1.732 1 1 0.0 0.0 ∞ Phantom & Tissue Parameters Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Permittivity - deviation from target values	Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35	
SAR Scaling E.6.5 0 R 1.732 1 1 0.0 0.0 ∞ Phantom & Tissue Parameters Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 <td>Device Holder Uncertainty</td> <td>E.4.1</td> <td>1.67</td> <td>Ν</td> <td>1</td> <td>1</td> <td>1</td> <td>1.7</td> <td>1.7</td> <td>5</td>	Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5	
Phantom & Tissue Parameters Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191	Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	8	
Phantom Uncertainty (Shape & Thickness tolerances) E.3.1 7.6 R 1.73 1.0 1.0 4.4 4.4 ∞ Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty	SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞	
Liquid Conductivity - measurement uncertainty E.3.3 4.3 N 1 0.78 0.71 3.3 3.0 76 Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty	Phantom & Tissue Parameters										
Liquid Permittivity - measurement uncertainty E.3.3 4.2 N 1 0.23 0.26 1.0 1.1 75 Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Uncertainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty	Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞	
Liquid Conductivity - Temperature Uncertainty E.3.4 3.4 R 1.732 0.78 0.71 1.5 1.4 ∞ Liquid Permittivity - Temperature Unceritainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty k=2 24.4 24.0	Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76	
Liquid Permittivity - Temperature Unceritainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty k=2 24.4 24.0 24.0	Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75	
Liquid Permittivity - Temperature Unceritainty E.3.4 0.6 R 1.732 0.23 0.26 0.1 0.1 ∞ Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty	Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞	
Liquid Conductivity - deviation from target values E.3.2 5.0 R 1.73 0.64 0.43 1.8 1.2 ∞ Liquid Permittivity - deviation from target values E.3.2 5.0 R 1.73 0.60 0.49 1.7 1.4 ∞ Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty k=2 24.4 24.0 24.0	Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞	
Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty k=2 24.4 24.0		+ -	5.0	R	1.73	0.64	0.43	1.8	1.2	∞	
Combined Standard Uncertainty (k=1) RSS 12.2 12.0 191 Expanded Uncertainty k=2 24.4 24.0	Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞	
		•		RSS			•	12.2	12.0	191	
(95% CONFIDENCE LEVEL)	Expanded Uncertainty			k=2				24.4	24.0		
	(95% CONFIDENCE LEVEL)										

FCC ID: A3LSMF926JPN	Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager	
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