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7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.pctest.com



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: 07/09/20 - 09/03/20**Test Site/Location:** PCTEST Lab, Columbia, MD, USA **Document Serial No.:** 1M2006240100-17-R1.A3L

FCC ID: A3LSMN986JPN

SAMSUNG ELECTRONICS CO., LTD APPLICANT:

Report Type: Part 0 SAR Characterization

DUT Type: Portable Handset Model(s): SCG06, SC-53A

Note: This revised Test Report (S/N: 1M2006240100-17-R1.A3L) 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.

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.

Randy Ortanez President





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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 |
| Bluetooth | Data | 2402 - 2480 MHz |
| NFC | Data | 13.56 MHz |
| MST | Data | 555 Hz - 8.33 kHz |

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/MST technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

1.2 Time-Averaging for SAR

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 P_{Limit} 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 2G/3G/4G. 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) transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

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1.3 Nomenclature for Part 0 Report

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

Bibliography 1.4

| Report Type | Report Serial Number |
|------------------------------------|------------------------|
| FCC SAR Evaluation Report (Part 1) | 1M2006240100-01-R1.A3L |
| RF Exposure Part 2 Test Report | 1M2006240100-15-R1.A3L |
| RF Exposure Compliance Summary | 1M2006240100-18.A3L |

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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:

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

E = 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:

- 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
- 2. Table 2-1) and IEEE 1528-2013.
- 3. 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.

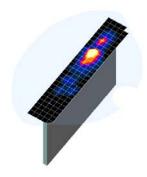


Figure 2-1 Sample SAR Area Scan

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- 4. 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
- 5. 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
 - b. 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).
 - c. 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.
 - d. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 6. 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*

| Maximum Area Scan | | Maximum Zoom Scan | Maximum Zoom Scan Spatial Resolution (mm) | | | Minimum Zoom Scan |
|-------------------|--|--|--|-------------------------|---------------------------------|------------------------|
| Frequency | Resolution (mm) (Δx _{area} , Δy _{area}) | Resolution (mm) (Δχ _{200m} , Δγ _{200m}) | Uniform Grid | G | raded Grid | Volume (mm) (x,y,z) |
| | ,, | ,, | Δz _{zoom} (n) | Δz _{zoom} (1)* | Δz _{zoom} (n>1)* | , ,,, , |
| ≤ 2 GHz | ≤15 | ≤8 | ≤5 | ≤4 | ≤ 1.5*∆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

| Doi una Corresponding Expediate Coenarios | | | |
|---|---|---|--|
| Scenario | Description | SAR Test Cases | |
| Head (DSI = 2) | Device positioned next to headReceiver Active | Head SAR per KDB Publication 648474 D04 | |
| Hotspot mode (DSI = 3) | Device transmits in hotspot mode near bodyHotspot Mode Active | Hotspot SAR per KDB Publication 941225 D06 | |
| Phablet Grip (DSI=1 or 4) | Device is held with hand and grip sensor is triggered Grip sensor triggered or earjack is active | Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04 | |
| Phablet (DSI = 0) | Device is held with hand and grip sensor is not triggeredDistance grip sensor not triggered | Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04 | |
| Body-worn (DSI = 0) | Device being used with a body-worn accessory | Body-worn SAR per KDB Publication 648474 D04 | |

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 10g SAR (W/kg) (W/kg) | | | | | | | | |
| Total Uncertainty | 1.0 dB | Total Uncertainty | 1.0 dB | | | | | |
| SAR_regulatory_limit | 1.6 W/kg | SAR_regulatory_limit | 4.0 W/kg | | | | | |
| SAR_design_target | 1.0 W/kg | SAR_design_target | 2.5 W/kg | | | | | |

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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.

Table 3-3 **PLimit Determination**

| Device State Index (DSI) | PLimit Determination Scenarios |
|--------------------------------|---|
| 0 | The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Body Worn SAR 2. Extremity SAR measured at 10, 6 and 13 mm spacing for back, front, bottom respectively 3. Extremity SAR measured at 0 mm for left and right surfaces |
| 1 or 4 | P_{limit} is calculated based on 10g Extremity SAR at 0 mm for back, front, and bottom surfaces |
| 2 | P _{limit} is calculated based on 1g Head SAR |
| 3 | 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 10g Extremity SAR evaluation at 6~13 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 | | Phablet | Head | Hotspot | Earjack | |
|------------------------|-------------------|-----------|-------------------|------------------|-----------|---------|-----------------|
| Averaging Volume: | 1g | 10g | 10g | 1g | 1g | 10g | Maximum Tune-up |
| Spacing: | 15 mm | 10, 6, 13 | 0 mm | 0 mm | 10 mm | 0 mm | Output Power* |
| DSI: | 0 | 0 | 1 | 2 | 3 | 4 | |
| Technology/Band | | Plimit co | rresponding to 1n | nW/g (SAR_desigi | n_target) | | Pmax |
| GSM/GPRS/EDGE 850 MHz | 29 | 1.2 | 26.3 | 33.0 | 26.3 | 26.3 | 24.8 |
| GSM/GPRS/EDGE 1900 MHz | 26 | i.9 | 18.9 | 33.3 | 18.9 | 18.9 | 21.8 |
| UMTS B5 | 30 |).1 | 26.7 | 32.0 | 26.7 | 26.7 | 24.0 |
| LTE FDD B12 | 28.7 | | 26.8 | 35.8 | 27.5 | 26.8 | 23.0 |
| LTE FDD B13 | 29 | .4 | 27.3 | 32.5 | 27.3 | 27.3 | 23.0 |
| LTE FDD B5 | 27 | '.8 | 24.6 | 32.4 | 24.6 | 24.6 | 23.0 |
| LTE FDD B4 | 26 | 5.8 | 18.5 | 33.9 | 18.5 | 18.5 | 22.5 |
| LTE TDD B41 | 26 | i.6 | 19.8 | 34.2 | 19.8 | 19.8 | 22.0 |

Notes:

- 1. For all modes/bands, when Hotspot Mode (DSI=3) and Extremity sensor (DSI=1) are triggered at the same time, DSI=1 takes priority, thus the P_{limit} for DSI=1 is set to be less or equal to P_{limit} for DSI=3
- 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 =4 are the same.

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4 EQUIPMENT LIST

For SAR measurements

| Agriett 67935 | Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--|---------------------|-----------|---|------------|--------------|------------|---------------|
| Agilient | Agilent | | Network Analyzer | | Annual | 3/5/2021 | MY40001472 |
| Agilent (44398 | | | | | | | |
| Aglent 64428 | | | | | | | 02 12200020 |
| Aglent NS182A MGO Vector Signal Generator \$1,15/200 Annual \$1,15/2001 MY-M0001472 Aglent 873-815 S-Parameter Nettown Analyzer \$1,05/2001 Annual \$1,05/2001 MY-M00001472 Aglent 873-815 S-Parameter Nettown Analyzer \$1,05/2001 Annual \$1,05/2001 MY-M00000141 Aglent \$1,05/2001 S-Parameter Nettown Analyzer \$1,05/2001 < | | | | | | | |
| Agliert 87345 Servamenter Network Analyser 8/5/2020 Annual 8/75/2021 Mr400005420 Agliert 873455 Servamenter Vertor Network Analyser 9/19/2019 Annual 8/75/2020 Mr400005430 Agliert 873555 Servamenter Vertor Network Analyser 9/19/2019 Annual 8/75/2020 Mr400005441 Agliert 855555 Mr Wrefrest Commentation Feet Ser 8/75/2019 Annual 9/75/2020 Mr40005441 Agliert 855555 Mr Wrefrest Commentation Feet Ser 8/75/2019 Annual 9/75/2020 Mr40005441 Agliert 855555 Mr Wrefrest Commentation Feet Ser 8/75/2019 Annual 9/75/2020 Mr40005441 Agliert 855556 Mr Wrefrest Commentative Feet Ser 8/75/2019 Mr | | | | | | | |
| Agilent B79355 5-Parameter Nethors Analyser (97,67020) Annual B775/2003 (M1000000000000000000000000000000000000 | | | | | | | |
| Aglient 875355 S-Personeties Vestor Network Analyser 9/15/2019 Annual 9/15/2019 (19/15/2019 Applied 15/15/15/2019 Profess) 6764300 S-Personeties (19/15/2019 Applied 15/15/2019 S-Personeties (19/15/2019 Applied 15/15/2019 S-Personeties (19/15/2019 Applied 15/15/2019 Applied 15/15 | | | | 3/5/2020 | | 3/5/2021 | |
| Agilent 5533.5C Wireless Communication Sets 54 9/75/2019 Annual 973/2000 6683302447 Agilent N8010A Wireless Connection Sets 54 NA N/A N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| Agient MOSIDA Wireless Connectivity Test Set N/A N/A N/A CET 1500.000 (644450273 Agient NOSIDA) Wireless Connectivity Test Set N/A N/A N/A N/A CET 1500.000 (644450273 Agient NOSIDA) Wireless Connectivity Test Set N/A N/A N/A CET 1500.000 (644450273 Agient NOSIDA) (644450273 Agi | | | | | | | |
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| Aggliert NAGIDA | | | | | | | |
| Amplitier Research 1500100C Amplitier CBT N/A CET 350132 Amplitier Research 155106 Amplitier CBT N/A CCT 343972 Amplitier Research 155106 Amplitier CBT N/A CCT 343972 Amplitier Research 155106 Amplitier CBT N/A CCT 343972 Amritsu MA2418 Parker Power Senior 12/2/2019 Amritsu M122/2019 1212/2019 Amritsu M122/2010 Amritsu M1821C Radio Communication Analyzer 1/6/2020 Amritsu M1821C Radio Communication Analyzer 1/6/2020 Amritsu M1821C Radio Communication Analyzer 1/2/2020 Amritsu M1821C Radio Communication Analyzer 1/2/2020 Amrius 1/6/2020 Amrius M1821C Radio Communication Analyzer 1/2/2020 Amrius M1821C Radio Communication Analyzer 1/2/2020 Amrius M1821C Radio Communication Analyzer 1/2/2020 Amrius 1/2/2020 Amrius M1821C Radio Communi | | | | | | | |
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| Annitsu M.12995A Power Meter 13/17/2019 Annual 12/17/2000 14/1001 Annitsu M.12917/2000 April 12/14/2019 Annual 12/14/2020 13/15/2010 Annitsu M.12918 Puble Power Sensor 12/14/2019 Annual 12/14/2020 12/2000 Annual 12/14/2020 12/2000 Annual 12/14/2020 62/2004715 Annual 12/14/2020 Annual 17/14/2021 62/2004715 Annual 18/14/2020 62/2004715 Annual 18/14/2020 62/2004715 Annual 18/14/2020 62/2004715 Annual 62/2020 | | | | | | | |
| Annibus Michael Power Meter 13/17/2000 Annual 13/23/2021 15/55/09 11/55/09 Annual 13/23/2020 11/55/09 | | | | | | | |
| Anntisu MA2418 Pale Power Sensor 132/A039 Annual 122/A0200 1226665 Anntisu MT8821C Basio Communication Analyser 11/2/2020 Annual 17/6/2021 626130000 Anntisu MT8821C Basio Communication Analyser 17/6/2020 Annual 17/6/2021 626130000 Anntisu MT8821C Basio Communication Analyser 17/1/2020 Annual 17/6/2021 626130000 Anntisu MT8821C Basio Communication Analyser 17/1/2020 Annual 17/1/2021 626130000 Anntisu MT8821C Basio Communication Analyser 5/1/2020 Annual 17/1/2021 626130000 Anntisu MT8821C Basio Communication Analyser 5/1/2020 Annual 17/1/2021 626130000 Anntisu MT8821C Basio Communication Analyser 5/1/2020 Annual 17/1/2021 626130000 Anntisu MT8821C Basio Communication Analyser 5/1/2020 Annual 17/1/2021 626130000 Anntisu MT882A C Basio Communication Analyser 5/1/2020 Annual 17/1/2021 626130000 Anntisu MT882A C Basio Communication Analyser 5/1/2020 Basio Communication Analyser 5/1/2020 Annual 18/1/2020 Basio Communication Analyser 5/1/2020 Basio Communication Tester 5/1/2020 Annual 17/2/2020 Medication Computer 5/1/2020 Annual 17/2/2020 Medication Communication Tester 5/1/2020 Annual 17/2/2020 Medication Communication Tester 5/1/2020 Basio Communication Tester 5/1/2020 Annual 17/1/2020 Medication | | | | | | | |
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| Anritsu MISSIZC Redio Communication Analyser 57/17/2009 Annual 9/21/2020 5207144419 Anritsu MA24106A USB Power Sensor 6/27/2009 Annual 6/27/2020 12015327 Anritsu MA24106A USB Power Sensor 6/27/2009 Annual 6/27/2021 2015327 Anritsu MA24106A USB Power Sensor 6/27/2009 Annual 6/27/2021 2015327 Anritsu MISSIAD Wireless Connectivity Test 8/8/2019 Annual 6/27/2021 2015327 COMTRCH ARS5729-5796 Solid State Ampiller C8T N/A C8T MISSIADO-000 (CMTCCH ARS5729-5796) Solid State Ampiller C8T N/A C8T MISSIADO-000 (CMTCCH ARS5729-5796) Solid State Ampiller C8T N/A C8T MISSIADO-000 (CMTCCH C0MPAPY 4352 Long Stem Thermometer 1/27/2009 Selected 1/27/2021 (CMTCCH C0MPAPY 4490 CMTCH C0MPAPY 4352 UITE LONG Stem Thermometer 1/12/97/2018 Selected (Company 4490 CMTCH C0MPAPY 4352 UITE LONG Stem Thermometer 1/12/97/2018 Selected (C0MPAPY 4352 UITE LONG Stem Thermometer 1/12/ | | | | | | | |
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| Seysight | | | | | | | |
| Exception Enthnotogies MSSDAM MoX Segual Analyser 11/15/10/2015 Annual 12/15/20/2000 Annual 12/15/20/2000 MANUAL 62/12/20/2000 MANUAL 62/12/20/20/20/20/20/20/20/20/20/20/20/20/20 | | 772D | | CBT | N/A | CBT | MY52180215 |
| EPYSIGHT | | N9020A | | 12/19/2019 | Annual | 12/19/2020 | MY48010233 |
| Except Fethologe | KEYSIGHT | E4438C | | 6/22/2020 | Annual | 6/22/2021 | MY45092078 |
| MICICRUIS SIP-2400+ Low Pass Filter CBT N/A CBT 1339 | eysight Technologie | N6705B | DC Power Analyzer | 4/27/2019 | Biennial | 4/27/2021 | MY53004059 |
| MICICRUIS SIP-2400+ Low Pass Filter CBT N/A CBT 1339 | eysight Technologie | AT/N6705B | | N/A | N/A | N/A | MY53001315 |
| MiniCircuits VI-F-6000+ Low Pass Filter CBT N/A CBT R8979500903 MiniCircuits WI-F-6000+ Low Pass Filter CBT N/A CBT N/A Mini-Circuits NN-1200+ Low Pass Filter DC 100 MHz CBT N/A CBT N/A Mini-Circuits NN-1200+ Low Pass Filter DC 100 MHz CBT N/A CBT N/A Mini-Circuits NN-1200+ Low Pass Filter DC 10 1000 MHz CBT N/A CBT N/A CBT N/A Mini-Circuits NN-1200+ Low Pass Filter DC 10 1000 MHz CBT N/A CBT N/A CBT N/A Mini-Circuits SW-N2004 Power Attenuator CBT N/A | | BW-N6W5+ | 6dB Attenuator | CBT | N/A | CBT | 1139 |
| Mini-Circuits Ni-P-1200+ Low Pass Filter DC to 1000 MHz | MiniCircuits | SLP-2400+ | | CBT | N/A | CBT | R8979500903 |
| Mini-Circuits Ni-P-1200+ Low Pass Filter DC to 1000 MHz | MiniCircuits | VLF-6000+ | Low Pass Filter | CBT | N/A | CBT | N/A |
| Mini-Circuits NiP.2590+ Low Pass Filter Of to 2700 MHz | Mini-Circuits | BW-N20W5+ | DC to 18 GHz Precision Fixed 20 dB Attenuator | CBT | N/A | CBT | N/A |
| Mini-Circuits SW-N20VS | Mini-Circuits | NLP-1200+ | Low Pass Filter DC to 1000 MHz | CBT | N/A | CBT | N/A |
| Narda | Mini-Circuits | NLP-2950+ | Low Pass Filter DC to 2700 MHz | CBT | N/A | CBT | N/A |
| Nards | Mini-Circuits | BW-N20W5 | Power Attenuator | CBT | N/A | CBT | 1226 |
| Number Pasternack PE2006-6 Bidirectional Coupler GST N/A CST 120 Pasternack PE2006-6 Bidirectional Coupler GST N/A CST N/A Rest | Narda | | 4 - 8 GHz SMA 6 dB Directional Coupler | | N/A | | |
| Pasternack PE2209-10 Bildractional Coupler CBT N/A CBT N/A Rohde & Schwarz ZNLE6 Vector Network Analyzer 10/11/2019 Annual 10/11/2002 10/10/2013 10/11/2002 10/10/2013 10/11/2003 10/11/2003 10/10/2013 10/11/2003 10/10/2013 10/11/2003 10/10/2013 10/11/2003 10/10/2013 10/11/2003 10/10/2013 10/11/2003 10/10/2013 | | | | | | | |
| Pasternack PE209-10 | | | | | | | |
| Robide Schwarz ZNLES Vector Network Analyzer 10/11/2019 Annual 10/11/2001 10/11/2002 10/13/201 10/11/2001 10/13/201 | | | | | | | |
| Robie & Schwarz CMWS00 Wideband Badio Communication Tester 2/4/2020 Annual 2/4/2021 18 2125 Robie & Schwarz CMWS00 Wideband Radio Communication Tester 1/14/2019 18 2125 Robre & Schwarz CMWS00 Wideband Radio Communication Tester 1/14/2019 1/14/2019 18 2125 Robre & Schwarz CMWS03 750 MHz SAR Dipole 3/14/2020 Annual 3/11/2020 19 20 SPEAG D759V3 750 MHz SAR Dipole 3/14/2020 Annual 3/11/2020 3/11/2020 3/11/2020 3/11/2020 150 490 150 3/11/2020 3/11/2020 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 150 490 490 490 490 490 490 490 | | | | | | | |
| Robde & Schwarz CMWS00 Wideband Radio Communication Tester 11/14/2009 Annual 11/14/2000 15/981 SPEAG D750V3 750 MHz SAR Dipole 3/15/2020 Annual 3/15/2020 1003 SPEAG D750V3 750 MHz SAR Dipole 3/11/2020 Annual 3/11/2021 1003 SPEAG D750V3 750 MHz SAR Dipole 3/11/2020 Annual 3/11/2020 105 SPEAG D858V2 855 MHz SAR Dipole 3/11/2019 Biennial 3/13/2001 4097 SPEAG D1500/2 1750 MHz SAR Dipole 5/12/2020 Annual 5/12/2021 44132 SPEAG D1750/2 1750 MHz SAR Dipole 5/12/2020 Annual 5/12/2021 4118 SPEAG D1500/2 1750 MHz SAR Dipole 5/12/2021 Triennial 5/12/2021 1108 SPEAG D1500/2 1900 MHz SAR Dipole 10/12/3028 Blennial 5/12/2021 1008 SPEAG D1500/2 1900 MHz SAR Dipole 10/12/3018 Blennial 11/12/200 | | | | -, , | | ., , | |
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| SPEAG D750V3 750 MHz SAR Dipole 10/19/2018 Blennial 10/19/2020 1161 | | | | | | | |
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| SPEAG DRSV2 855 MHz SAR Dipole 1/13/2000 Annual 1/13/2001 48132 SPEAG DTSV0/2 1759 MHz SAR Dipole 1/12/2000 Annual 1/13/2001 48132 SPEAG DTSV0/2 1759 MHz SAR Dipole 5/12/2000 Annual 1/13/2001 1008 SPEAG DTSV0/2 1900 MHz SAR Dipole 5/23/2018 Biennals 5/23/2002 1008 SPEAG DTSV0/2 1900 MHz SAR Dipole 2/21/2019 Biennals 3/21/2002 508 SPEAG D23000/2 2200 MHz SAR Dipole 2/12/2019 Biennals 3/12/2002 508 SPEAG D23500/2 2450 MHz SAR Dipole 8/13/2018 Biennals 3/12/2002 719 SPEAG D24500/2 2450 MHz SAR Dipole 9/11/2017 Trienals 9/11/2000 729 SPEAG D24500/2 2450 MHz SAR Dipole 9/11/2017 Trienals 9/11/2000 729 SPEAG D24500/2 2450 MHz SAR Dipole 9/11/2017 Trienals 9/11/2000 729 | | | | | | | |
| SPEAG D1759V2 1750 MHz SAR Dipole \$1,21/2020 Annual \$1,12/2021 1148 SPEAG D1765V2 1756 MHz SAR Dipole \$1,23/2018 Birninal \$1,23/2012 1008 SPEAG D1900V2 1900 MHz SAR Dipole 10,23/2018 Biennial 10,23/2020 56080 SPEAG D2300V2 2300 MHz SAR Dipole 8/14/2018 Biennial 8/12/2020 5188 SPEAG D2350V2 2450 MHz SAR Dipole 8/14/2018 Biennial 8/14/2020 799 SPEAG D2450V2 2450 MHz SAR Dipole 8/14/2017 Triennial 9/11/2020 797 SPEAG D2450V2 2450 MHz SAR Dipole 8/14/2018 Biennial 8/15/2018 8/15/2018 Biennial 8/15/2020 981 SPEAG D2500V2 2500 MHz SAR Dipole 6/14/2013 Biennial 8/11/2021 1004 SPEAG D2500V2 2500 MHz SAR Dipole 6/14/2013 Biennial 6/14/2021 1057 SPEAG D2500V2 5 GHz SAR Dipole 8/11 | | | 835 MHz SAR Dipole | | | | |
| SPEAG D1900V2 1900 MH± SAR Dipole 5/23/2018 Triennial 5/23/2020 5080 SPEAG D1900V2 1900 MH± SAR Dipole 10/23/2018 Biennial 10/23/200 5480 SPEAG D1900V2 1900 MH± SAR Dipole 2/21/2019 Biennial 2/21/2021 50148 SPEAG D2300V2 2300 MH± SAR Dipole 2/21/2019 Biennial 12/21/2021 1073 SPEAG D2300V2 2450 MH± SAR Dipole 8/14/2019 Annual 8/14/2020 1073 SPEAG D2500V2 2450 MH± SAR Dipole 8/14/2019 Annual 8/14/2020 719 SPEAG D2500V2 2450 MH± SAR Dipole 8/14/2019 Annual 8/14/2020 719 SPEAG D2500V2 2450 MH± SAR Dipole 8/14/2018 Biennial 8/14/2020 719 SPEAG D2500V2 2450 MH± SAR Dipole 8/14/2018 Biennial 8/15/2020 719 SPEAG D2500V2 2450 MH± SAR Dipole 8/14/2018 Biennial 8/15/2020 719 SPEAG D2500V2 2600 MH± SAR Dipole 6/14/2019 Biennial 8/15/2020 1054 SPEAG D2500V2 2600 MH± SAR Dipole 6/14/2019 Biennial 6/14/2021 1064 SPEAG D2500V2 5 CH± SAR Dipole 1/15/2018 Biennial 6/14/2021 1064 SPEAG D2500V2 5 CH± SAR Dipole 1/15/2018 Biennial 6/14/2021 1054 SPEAG D2500V2 5 CH± SAR Dipole 1/15/2018 Biennial 6/14/2021 1054 SPEAG D2500V2 5 CH± SAR Dipole 1/15/2018 Biennial 6/14/2021 1054 SPEAG D2500V2 5 CH± SAR Dipole 1/15/2018 Biennial 6/14/2021 1054 SPEAG DA64 Dasy Data Acquisition Electronics 5/20/2020 Annual 5/20/2021 228 SPEAG DA64 Dasy Data Acquisition Electronics 5/20/2020 Annual 6/18/2021 1334 SPEAG DA64 Dasy Data Acquisition Electronics 6/14/2020 Annual 6/18/2021 1334 SPEAG DA64 Dasy Data Acquisition Electronics 4/15/2020 Annual 4/15/2021 1336 SPEAG DA64 Dasy Data Acquisition Electronics 4/15/2020 Annual 4/15/2021 1339 SPEAG DA64 Dasy Data Acquisition Electronics 4/15/2020 Annual 4/15/2021 1339 SPEAG DA64 Dasy Data Acquisition Electronics 4/15/2020 Annual 4/15/2021 1339 SPEAG DA64 Dasy Data Acquisition | | | 835 MHz SAR Dipole | | | | |
| SPEAG D1900V2 1900 MHz SAR Dipole 10/23/2008 Biennial 10/23/2002 59080 | | | | | | | |
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| SPEAG | | | | | | | |
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| SPEAG DSGHV2 S GHz SAR Dipole 8/10/2018 Biennial 8/10/2020 1237 SPEAG DASEA Dasy Data Aquisition Electronics 5/20/2020 Annual 5/20/2021 728 SPEAG DAE4 Dasy Data Aquisition Electronics 9/17/2019 Annual 9/17/2020 1333 SPEAG DAE4 Dasy Data Aquisition Electronics 3/12/2020 Annual 3/12/2021 1384 SPEAG DAE4 Dasy Data Aquisition Electronics 3/12/2030 Annual 3/12/2021 1409 SPEAG DAE4 Dasy Data Aquisition Electronics 3/12/2019 Annual 9/12/2030 1449 SPEAG DAE4 Dasy Data Aquisition Electronics 1/13/2001 Annual 9/12/2002 1449 SPEAG DAE4 Dasy Data Aquisition Electronics 1/13/2001 Annual 1/13/2001 1530 SPEAG DAE4 Dasy Data Aquisition Electronics 1/13/2009 Annual 1/13/2001 1530 SPEAG DAE4 Dasy Data Aquisition Electronics 1/13/2009 | | | | | | | |
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| SPEAG DAE4 Dasy Data Acquisition Electronics 9/12/2019 Annual 9/12/2002 1449 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/201 133 173/202 153 SPEAG DAE4 Dasy Data Acquisition Electronics 11/5/2019 Annual 1/13/2020 1533 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/13/2021 1588 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/13/2021 1583 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/13/2021 1583 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/14/2021 1583 SPEAG DASIDVA SAR Probe 1/21/2020 Annual 1/12/2021 3899 SPEAG DASIDVA SAR Probe 6/23/2020 Annual 6/23/2020 Annual 6/23/2021 7406 SPEAG DASIDVA SAR Probe 1/21/2021 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/13/2021 1530 SPEAG DAE4 Dasy Data Acquisition Electronics 12/5/2019 Annual 112/5/2020 1533 SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 113/2021 1538 SPEAG DAE4 Dasy Data Acquisition Electronics 5/14/2020 Annual 5/14/2021 1583 SPEAG EX30V4 SAB Probe 4/12/1/2020 Annual 5/14/2021 3589 SPEAG EX30V4 SAB Probe 6/23/2020 Annual 4/21/2021 7957 SPEAG EX30V4 SAB Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EX30V4 SAB Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EX30V4 SAB Probe 5/18/2020 Annual 6/23/2021 7409 SPEAG EX30V4 SAB Probe 5/18/2020 Annual 6/23/2021 7588 SPE | 0.2 | | | | | ., -0, -0 | |
| SPEAG DAE4 Day Data Aquisition Electronics 12/5/2019 Annual 11/5/2020 1533 SPEAG DAE4 Day Data Aquisition Electronics 1/13/2020 Annual 1/12/2021 1558 SPEAG DAE4 Dasy Data Aquisition Electronics 5/14/2020 Annual 5/14/2021 1583 SPEAG D3XDV4 SAB Probe 1/21/2020 Annual 4/21/2021 3589 SPEAG D3XDV4 SAB Probe 4/21/2020 Annual 4/21/2021 3589 SPEAG D3XDV4 SAB Probe 6/23/2020 Annual 4/21/2021 7397 SPEAG D3XDV4 SAB Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG D3XDV4 SAB Probe 6/23/2020 Annual 1/21/2021 7409 SPEAG E3XDV4 SAB Probe 1/21/2020 Annual 1/21/2021 7409 SPEAG E3XDV4 SAB Probe 5/18/2020 Annual 1/21/2021 7532 SPEAG E3XDV4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| SPEAG DAE4 Dasy Data Acquisition Electronics 1/13/2020 Annual 1/13/2021 1558 SPEAG DAE4 Dasy Data Acquisition Electronics 5/14/2020 Annual 1/12/2021 1583 SPEAG E330V4 SAR Probe 1/21/2020 Annual 1/21/2021 3589 SPEAG E330V4 SAR Probe 4/21/2020 Annual 4/21/2021 7957 SPEAG E330V4 SAR Probe 6/23/2020 Annual 4/23/2021 7409 SPEAG E330V4 SAR Probe 6/23/2020 Annual 1/23/2021 7409 SPEAG E330V4 SAR Probe 5/18/2020 Annual 1/21/2021 7489 SPEAG E330V4 SAR Probe 5/18/2020 Annual 5/18/2021 758 SPEAG E330V4 SAR Probe 9/19/2019 Annual 5/18/2021 758 SPEAG E330V4 SAR Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG E330V4 SAR | | | | | | | |
| SPEAG DAE4 Dasy Data Aquistion Electronics \$5/14/2020 Annual \$1/34/2021 \$183 SPEAG EXBDV4 SAB Probe 1/21/2020 Annual \$1/21/2021 \$589 SPEAG EXBDV4 SAB Probe 4/21/2020 Annual 4/21/2021 7357 SPEAG EXBDV4 SAB Probe 6/23/2020 Annual 6/23/2021 7406 SPEAG EXBDV4 SAB Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EXBDV4 SAB Probe 1/21/2020 Annual 1/21/2021 7409 SPEAG EXBDV4 SAB Probe 5/18/2020 Annual 1/21/2021 7488 SPEAG EXBDV4 SAB Probe 5/18/2020 Annual 1/21/2021 7532 SPEAG EXBDV4 SAB Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EXBDV4 SAB Probe 9/19/2019 Annual 1/21/2020 7552 SPEAG EXBDV4 SAB Probe | | | | | | | |
| SPEAG EXIDV4 SAR Probe 1/21/2020 Annual 1/21/2021 3589 SPEAG EXIDV4 SAR Probe 4/21/2020 Annual 4/21/2021 7357 SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 4/21/2021 7409 SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EXIDV4 SAR Probe 1/21/2020 Annual 9/12/2021 7488 SPEAG EXIDV4 SAR Probe 5/18/2020 Annual 9/18/2020 751 SPEAG EXIDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG EXIDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/2019 | | | | | | | |
| SPEAG EXIDV4 SAR Probe 4/21/2020 Annual 4/21/2021 7357 SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 6/23/2021 7406 SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EXIDV4 SAR Probe 1/21/2020 Annual 1/21/2021 7488 SPEAG EXIDV4 SAR Probe 9/18/2020 Annual 1/21/2021 7538 SPEAG EXIDV4 SAR Probe 9/18/2019 Annual 9/19/2020 7551 SPEAG EXIDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/2020 Annual 12/11/2020 7570 | | | | | | | |
| SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 6/23/2021 7406 SPEAG EXIDV4 SAR Probe 6/23/2020 Annual 6/23/2021 7409 SPEAG EXIDV4 SAR Probe 1/21/2020 Annual 6/23/2021 7488 SPEAG EXIDV4 SAR Probe 5/18/2020 Annual 5/18/2021 7538 SPEAG EXIDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 9/19/2020 7552 SPEAG EXIDV4 SAR Probe 12/11/2019 Annual 11/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/10219 Annual 11/11/2020 7570 SPEAG EXIDV4 SAR Probe 12/11/10219 Annual 11/11/2020 7571 | | | | | | | |
| SPEAG EXSIDV4 SAB Probe 6/23/0200 Annual 6/23/0201 7409 SPEAG EXSIDV4 SAB Probe 1/21/2020 Annual 1/21/2021 7488 SPEAG EXSIDV4 SAB Probe 5/18/2020 Annual 1/21/2021 7538 SPEAG EXSIDV4 SAB Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG EXSIDV4 SAB Probe 9/19/2019 Annual 19/19/2020 7552 SPEAG EXSIDV4 SAB Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EXSIDV4 SAB Probe 12/11/2019 Annual 12/11/2020 7571 | | | | | | | |
| SPEAG EX3DV4 SAR Probe 1/21/2020 Annual 1/21/2021 7488 SPEAG EX3DV4 SAR Probe 5/18/2020 Annual 5/18/2021 7538 SPEAG EX3DV4 SAR Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG EX3DV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 | | | | | | | |
| SPEAG EXBDV4 SAR Probe 5/18/2020 Annual 5/18/2021 7538 SPEAG EXBDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG EXBDV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EXBDV4 SAR Probe 12/11/2019 Annual 12/11/2009 7570 SPEAG EXBDV4 SAR Probe 12/11/2019 Annual 12/11/2009 7571 | | | | | | | |
| SPEAG EX3DV4 SAR Probe 9/19/2019 Annual 9/19/2020 7551 SPEAG EX3DV4 SAR Probe 9/19/2019 Annual 9/19/2020 7552 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7571 | | | | | | | |
| SPEAG EX3DV4 SAR Probe 9/13/2019 Annual 9/19/2020 7552 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2007 7571 | | | | | | | |
| SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7570 SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7571 | | | SAR Prohe | 9/19/2019 | | | |
| SPEAG EX3DV4 SAR Probe 12/11/2019 Annual 12/11/2020 7571 | | | | | | | |
| | | | | | | | |
| | SPEAG | DAK-3.5 | Dielectric Assessment Kit | 5/12/2020 | Annual | 5/12/2021 | 1070 |

Note:

- 1. 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: A3LSMN986JPN | Proud to be part of element Proud to be part of element PART 0 SAR CHAR REPORT | | Approved by: Quality Manager |
|------------------------|--|------------------|------------------------------|
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For SAR Measurements

| Weasurements | | | | | | | | |
|---|-------|-------|--------|------|----------------|----------------|----------------|----------------|
| а | С | d | e= | f | g | h = | i = | k |
| | | | f(d,k) | | | c x f/e | c x g/e | |
| | Tol. | Prob. | | Ci | C _i | 1gm | 10gms | |
| Uncertainty Component | (± %) | Dist. | Div. | 1gm | 10 gms | $\mathbf{u_i}$ | u _i | v _i |
| | | | | | | (± %) | (± %) | |
| Measurement System | | | | | | | | |
| Probe Calibration | 6.55 | N | 1 | 1.0 | 1.0 | 6.6 | 6.6 | ∞ |
| Axial Isotropy | 0.25 | N | 1 | 0.7 | 0.7 | 0.2 | 0.2 | × |
| Hemishperical Isotropy | 1.3 | N | 1 | 0.7 | 0.7 | 0.9 | 0.9 | × |
| Boundary Effect | 2.0 | R | 1.73 | 1.0 | 1.0 | 1.2 | 1.2 | ∞ |
| Linearity | 0.3 | N | 1 | 1.0 | 1.0 | 0.3 | 0.3 | ∞ |
| System Detection Limits | 0.25 | R | 1.73 | 1.0 | 1.0 | 0.1 | 0.1 | × |
| Readout Electronics | 0.3 | N | 1 | 1.0 | 1.0 | 0.3 | 0.3 | ∞ |
| Response Time | 0.8 | R | 1.73 | 1.0 | 1.0 | 0.5 | 0.5 | ∞ |
| Integration Time | 2.6 | R | 1.73 | 1.0 | 1.0 | 1.5 | 1.5 | ∞ |
| RF Ambient Conditions - Noise | 3.0 | R | 1.73 | 1.0 | 1.0 | 1.7 | 1.7 | ∞ |
| RF Ambient Conditions - Reflections | 3.0 | R | 1.73 | 1.0 | 1.0 | 1.7 | 1.7 | ∞ |
| Probe Positioner Mechanical Tolerance | 0.4 | R | 1.73 | 1.0 | 1.0 | 0.2 | 0.2 | × |
| Probe Positioning w/ respect to Phantom | 6.7 | R | 1.73 | 1.0 | 1.0 | 3.9 | 3.9 | × |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | 4.0 | R | 1.73 | 1.0 | 1.0 | 2.3 | 2.3 | œ |
| Test Sample Related | • | • | | • | | | | |
| Test Sample Positioning | 2.7 | N | 1 | 1.0 | 1.0 | 2.7 | 2.7 | 35 |
| Device Holder Uncertainty | 1.67 | N | 1 | 1.0 | 1.0 | 1.7 | 1.7 | 5 |
| Output Power Variation - SAR drift measurement | 5.0 | R | 1.73 | 1.0 | 1.0 | 2.9 | 2.9 | ∞ |
| SAR Scaling | 0.0 | R | 1.73 | 1.0 | 1.0 | 0.0 | 0.0 | ∞ |
| Phantom & Tissue Parameters | | | | | | | | |
| Phantom Uncertainty (Shape & Thickness tolerances) | 7.6 | R | 1.73 | 1.0 | 1.0 | 4.4 | 4.4 | ∞ |
| Liquid Conductivity - measurement uncertainty | 4.2 | N | 1 | 0.78 | 0.71 | 3.3 | 3.0 | 10 |
| Liquid Permittivity - measurement uncertainty | 4.1 | N | 1 | 0.23 | 0.26 | 1.0 | 1.1 | 10 |
| Liquid Conductivity - Temperature Uncertainty | 3.4 | R | 1.73 | 0.78 | 0.71 | 1.5 | 1.4 | -x |
| Liquid Permittivity - Temperature Unceritainty | 0.6 | R | 1.73 | 0.23 | 0.26 | 0.1 | 0.1 | ∞ |
| Liquid Conductivity - deviation from target values | 5.0 | R | 1.73 | 0.64 | 0.43 | 1.8 | 1.2 | × × |
| Liquid Permittivity - deviation from target values | 5.0 | R | 1.73 | 0.60 | 0.49 | 1.7 | 1.4 | ∞ |
| Combined Standard Uncertainty (k=1) | | RSS | | | | 11.5 | 11.3 | 60 |
| Expanded Uncertainty | | k=2 | | | | 23.0 | 22.6 | |
| (95% CONFIDENCELEVEL) | | | | | | | | 1 |
| · | | | | | | | 1 | |

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