Element Materials Technology



(Formerly PCTEST)

18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
http://www.element.com



PART 0 SAR CHAR REPORT

Applicant Name:

Executive Vice President

Apple, Inc. One Apple Park Way Cupertino, CA 95014 **Date of Testing:** 01/08/2024 – 03/07/2024 **Test Report Issue Date:** 03/26/2024

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.: 1C2311270068-01.BCG

FCC ID: BCGA2837

APPLICANT: APPLE, INC.

Report Type: Part 0 SAR Characterization

DUT Type: Tablet Device

Model(s): A2837

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.

Prepared by: WKR:#0000000981

Reviewed by: WKR:#0000005810





| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 1 of 11 |

TABLE OF CONTENTS

| 1 [| DEVICE UNDER TEST | 3 |
|------|--|----|
| 1.1 | Device Overview | 3 |
| 1.2 | Time-Averaging for SAR and Power Density | 4 |
| 1.3 | Nomenclature for Part 0 Report | 4 |
| 1.4 | Bibliography | 4 |
| 2 5 | SAR AND POWER DENSITY MEASUREMENTS | 5 |
| 2.1 | SAR Definition | 5 |
| 2.2 | SAR Measurement Procedure | 5 |
| 3 5 | SAR CHARACTERIZATION | 7 |
| 3.1 | DSI and SAR Determination | 7 |
| 3.2 | SAR Design Target | 7 |
| 3.3 | SAR Char | 8 |
| 13 E | EQUIPMENT LIST | 10 |
| 14 N | MEASUREMENT UNCERTAINTIES | 11 |

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--------------------------------------|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 2 of 11 |

1 DEVICE UNDER TEST

1.1 Device Overview

| Band & Mode | Operating Modes | Tx Frequency | |
|--------------------|-----------------|---------------------------|--|
| UMTS 850 | Data | 826.4 - 846.6 MHz | |
| UMTS 1750 | Data | 1712.4 - 1752.6 MHz | |
| UMTS 1900 | Data | 1852.4 - 1907.6 MHz | |
| LTE Band 71 | Data | 665.5 - 695.5 MHz | |
| LTE Band 12 | Data | 699.7 - 715.3 MHz | |
| LTE Band 17 | Data | 706.5 - 713.5 MHz | |
| LTE Band 13 | Data | 779.5 - 784.5 MHz | |
| LTE Band 14 | Data | 790.5 - 795.5 MHz | |
| LTE Band 26 (Cell) | Data | 814.7 - 848.3 MHz | |
| LTE Band 5 (Cell) | Data | 824.7 - 848.3 MHz | |
| LTE Band 66 (AWS) | Data | 1710.7 - 1779.3 MHz | |
| LTE Band 4 (AWS) | Data | 1710.7 - 1754.3 MHz | |
| LTE Band 25 (PCS) | Data | 1850.7 - 1914.3 MHz | |
| LTE Band 2 (PCS) | Data | 1850.7 - 1909.3 MHz | |
| LTE Band 30 | Data | 2307.5 - 2312.5 MHz | |
| LTE Band 7 | Data | 2502.5 - 2567.5 MHz | |
| LTE Band 41 | Data | 2498.5 - 2687.5 MHz | |
| LTE Band 48 | Data | 3552.5 - 3697.5 MHz | |
| NR Band n71 | Data | 665.5 - 695.5 MHz | |
| NR Band n12 | Data | 701.5 - 713.5 MHz | |
| NR Band n14 | Data | 790.5 - 795.5 MHz | |
| NR Band n26 (Cell) | Data | 816.5 - 846.5 MHz | |
| NR Band n5 (Cell) | Data | 826.5 - 846.5 MHz | |
| NR Band n70 | Data | 1697.5 - 1707.5 MHz | |
| NR Band n66 (AWS) | Data | 1712.5 - 1777.5 MHz | |
| NR Band n25 (PCS) | Data | 1852.5 - 1912.5 MHz | |
| NR Band n2 (PCS) | Data | 1852.5 - 1907.5 MHz | |
| NR Band n30 | Data | 2307.5 - 2312.5 MHz | |
| NR Band n7 | Data | 2502.5 - 2567.5 MHz | |
| NR Band n41 | Data | 2506.02 - 2679.99 MHz | |
| NR Band n48 | Data | 3555.0 - 3694.98 MHz | |
| NR Band n77 DoD | Data | 3455.01 - 3544.98 MHz | |
| NR Band n77 C | Data | 3705.0 - 3975.0 MHz | |
| 2.4 GHz WLAN | Voice/Data | 2412 - 2472 MHz | |
| | | U-NII-1: 5180 - 5240 MHz | |
| 5 GHz WIFI | Voice/Data | U-NII-2A: 5260 - 5320 MHz | |
| 3 GHZ WIFI | Voice/Data | U-NII-2C: 5500 - 5720 MHz | |
| | | U-NII-3: 5745 - 5825 MHz | |
| | | U-NII-5: 5955 - 6415 MHz | |
| 6 GHz WIFI | Voice/Data | U-NII-6: 6435 - 6515 MHz | |
| O GITZ WIFT | Voice/Data | U-NII-7: 6535 - 6875 MHz | |
| | | U-NII-8: 6895 - 7115 MHz | |
| Bluetooth | Data | 2402 - 2480 MHz | |
| 802.15.4 | Data | 2405 - 2475 MHz | |
| NB UNII-1 | Data | 5162 - 5245 MHz | |
| NB UNII-3 | Data | 5733 - 5844 MHz | |
| WPT | N/A | 13.56 MHz | |

This device uses the Qualcomm® Gen2 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 3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT/802.15.4/NB-UNII technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--------------------------------------|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 3 of 11 |

1.2 Time-Averaging for SAR and Power Density

This device is enabled with Qualcomm® Gen2 Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 3G/4G/5G Sub-6 NR 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) 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 | |
|------------|--------------------|--|--|
| | P _{limit} | Power level that corresponds to the exposure design | |
| | | target (SAR_design_target) after accounting for all device | |
| 3G/4G/5G | | design related uncertainties | |
| 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 Plimit for all technologies and bands | |

1.4 Bibliography

| Report Type | Report Serial Number |
|--------------------------------|----------------------|
| FCC SAR Evaluation Report | 1C2311270068-02.BCG |
| RF Exposure Part 2 Test Report | 1C2311270068-03.BCG |
| RF Exposure Compliance Summary | 1C2311270068-04.BCG |

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--------------------------------------|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 4 of 11 |

2 SAR 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:

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

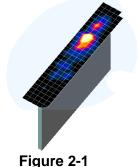
E = Total RMS electric field strength (V/m)

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:

- 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) 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

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) and IEEE 1528-2013. On the

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 5 of 11 |
| | | REV 1.1 |

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 . 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*

| | Maximum Area Scan Maximum Zoom Scan Frequency Resolution (mm) Resolution (mm) | | Maximum Zoom Scan Spatial Resolution (mm) | | | Minimum Zoom Scan |
|-----------|---|--|--|-------------------------|---------------------------------|------------------------|
| Frequency | (Δx _{area} , Δy _{area}) | (Δx _{200m} , Δy _{200m}) | Uniform Grid | Gı | raded Grid | Volume (mm) (x,y,z) |
| | | | Δz _{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

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 6 of 11 |

3 SAR CHARACTERIZATION

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 tablet, 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.

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 |
|-----------|----------------|--|
| (DSI = 1) | Device on body | Tablet SAR per KDB Publication 616217 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

| 1g SAR (W/kg) | | | | |
|-------------------------------|----------|--|--|--|
| Smart Tx Uncertainty | 1.0 dB | | | |
| SAR_regulatory_limit 1.6 W/kg | | | | |
| SAR_design_target | 0.8 W/kg | | | |

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager | | |
|--|----------------------------|-----------------------------------|--|--|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 7 of 11 | | |

3.3 SAR Char

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in FCC SAR Part 1 Report.

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 |
|--------------------------------|---|
| 1 | The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Tablet SAR measured at 0 mm for Back, Top, Bottom, Right, Left surfaces |

Note:

For DSI = 1, P_{limit} is calculated by:

 P_{limit} corresponding to 1g Tablet SAR evaluation at 0 mm for back, top, bottom, left and right surfaces

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 8 of 11 |

Table 3-4 SAR Characterizations

| SAR Characterizations | | | | | | | | |
|------------------------|-------------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------------|---------------------------|
| Exposure Scenario: | Ant 1 | Ant 1 | Ant 2b | Ant 2b | Ant 3 | Ant 3 | Ant 4b | Ant 4b |
| Averaging Volume: | 1g | Maximum Tune- up Output | 1g | Maximum Tune- up Output | 1g | Maximum Tune- up Output | 1g | Maximum Tune up Output |
| Spacing: | 0 mm | Power* | 0 mm | Power* | 0 mm | Power* | 0 mm | Power* |
| DSI: | 1 | | 1 | | 1 | | 1 | |
| Technology/Band | Plimit corresponding to 0.8 W/kg | Pmax | Plimit corresponding to 0.8 W/kg | Pmax | Plimit corresponding to 0.8 W/kg | Pmax | Plimit corresponding to 0.8 W/kg | Pmax |
| UMTS 850 | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| UMTS 1750 | 13.50 | 22.00 | 12.20 | 22.00 | 15.10 | 24.50 | 11.90 | 24.60 |
| UMTS 1900 | 12.60 | 22.00 | 11.50 | 22.00 | 13.80 | 24.50 | 11.30 | 24.60 |
| LTE Band 71 | 18.80 | 23.20 | N/A | N/A | 18.50 | 25.00 | N/A | N/A |
| LTE Band 12 | 19.30 | 23.20 | N/A | N/A | 18.20 | 25.00 | N/A | N/A |
| LTE Band 17 | 19.30 | 23.20 | N/A | N/A | 18.20 | 25.00 | N/A | N/A |
| LTE Band 13 | 20.50 | 23.20 | N/A | N/A | 18.80 | 25.00 | N/A | N/A |
| LTE Band 14 | 19.10 | 23.20 | N/A | N/A | 18.80 | 25.00 | N/A | N/A |
| LTE Band 26 | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| LTE Band 5 | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| LTE Band 5 ULCA | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| LTE Band 4 | 13.50 | 25.00 | 12.20 | 24.50 | 15.10 | 24.50 | 11.90 | 24.60 |
| LTE Band 66 | 13.50 | 25.00 | 12.20 | 24.50 | 15.10 | 23.50 | 11.90 | 23.60 |
| LTE Band 2 | 12.60 | 22.00 | 11.50 | 22.00 | 13.80 | 24.50 | 11.30 | 24.60 |
| LTE Band 25 | 12.60 | 22.00 | 11.50 | 22.00 | 13.80 | 24.50 | 11.30 | 24.60 |
| LTE Band 30 | 14.80 | 21.50 | 11.50 | 21.50 | 12.10 | 22.10 | 11.00 | 23.70 |
| LTE Band 7 | 13.00 | 21.50 | 11.10 | 21.50 | 12.20 | 24.50 | 10.10 | 24.60 |
| LTE Band 7 ULCA | 13.00 | 21.50 | 11.10 | 21.50 | 12.20 | 24.50 | 10.10 | 24.60 |
| LTE Band 41 (PC3) | 13.0 | 23.0 | 11.0 | 23.0 | 10.9 | 23.0 | 9.9 | 23.0 |
| LTE Band 41 (PC3) ULCA | 13.0 | 23.0 | 11.0 | 23.0 | 10.9 | 23.0 | 9.9 | 23.0 |
| LTE Band 41 (PC2) | 13.0 | 24.4 | 11.0 | 23.9 | 10.9 | 22.9 | 9.9 | 23.0 |
| LTE Band 41 (PC2) ULCA | 13.0 | 24.4 | 11.0 | 23.9 | 10.9 | 22.9 | 9.9 | 23.0 |
| LTE Band 48 | 11.0 | 18.4 | 11.1 | 20.5 | 11.0 | 17.7 | 10.2 | 19.9 |
| LTE Band 48 ULCA | 11.0 | 18.4 | 11.1 | 20.5 | 11.0 | 17.7 | 10.2 | 19.9 |
| NR Band n71 | 18.80 | 23.20 | N/A | N/A | 18.50 | 25.00 | N/A | N/A |
| NR Band n12 | 19.30 | 23.20 | N/A | N/A | 18.20 | 25.00 | N/A | N/A |
| NR Band n14 | 19.10 | 23.20 | N/A | N/A | 18.80 | 25.00 | N/A | N/A |
| NR Band n26 | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| NR Band n5 | 19.20 | 23.20 | N/A | N/A | 18.70 | 25.00 | N/A | N/A |
| NR Band n70 | 13.50 | 25.00 | 12.20 | 24.50 | 15.10 | 24.50 | 11.90 | 24.60 |
| NR Band n66 | 13.50 | 25.00 | 12.20 | 24.50 | 15.10 | 23.50 | 11.90 | 23.60 |
| NR Band n2 | 12.60 | 22.00 | 11.50 | 22.00 | 13.80 | 24.50 | 11.30 | 24.60 |
| NR Band n25 | 12.60 | 22.00 | 11.50 | 22.00 | 13.80 | 24.50 | 11.30 | 24.60 |
| NR Band n30 | 14.80 | 21.50 | 11.50 | 21.50 | 12.10 | 22.10 | 11.00 | 23.70 |
| NR Band n7 | 13.00 | 21.50 | 11.10 | 21.50 | 12.20 | 24.50 | 10.10 | 24.60 |
| NR Band n41 (PC3) | 13.00 | 25.00 | 11.00 | 25.00 | 10.90 | 25.00 | 9.90 | 25.00 |
| NR Band n41 (PC2) | 13.00 | 28.00 | 11.00 | 27.50 | 10.90 | 26.50 | 9.90 | 26.60 |
| NR Band n77 (PC3) | 9.90 | 22.50 | 10.50 | 22.50 | 9.80 | 24.70 | 9.80 | 24.70 |
| NR Band n77 (PC2) | 9.90 | 22.50 | 10.50 | 22.50 | 9.80 | 26.50 | 9.80 | 26.00 |
| NR Band n48 | 11.00 | 20.40 | 11.10 | 22.50 | 11.00 | 19.70 | 10.20 | 21.90 |

Notes:

- 1. *Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and +1.0/-1.0 dB conducted power tolerance for UHB.
- 2. All P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--------------------------------------|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 9 of 11 |

13 EQUIPMENT LIST

For SAR measurements

| Agilent | Model F4404B | Description | | Cal Interval | Cal Due N/A | Serial Numb MY4511324 |
|---|--|--|--|--|--|--|
| Agilent | E4404B E4438C | Spectrum Analyzer ESG Vector Signal Generator | N/A 11/14/2023 | N/A Annual | N/A 11/14/2024 | MY4511324 MY4509385 |
| Agilent | E4438C | ESG Vector Signal Generator | 11/15/2023 | Annual | 11/15/2024 | MY4509303 |
| Agilent | N5182A | MXG Vector Signal Generator | 10/12/2023 | Annual | 10/12/2024 | MY4740001 |
| Agilent | N5182A | MXG Vector Signal Generator | 7/4/2023 | Annual | 7/4/2024 | MY4818036 |
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 6/2/2023 | Annual | 6/2/2024 | MY4000384 |
| Agilent | E5515C | Wireless Communications Test Set | CBT | N/A | CBT | US4114025 |
| Agilent | N4010A | Wireless Connectivity Test Set | N/A | N/A | N/A | GB4617046 |
| Amplifier Research | 1551G6 1551G6 | Amplifier Amplifier | CBT | N/A N/A | CBT | 433973 433974 |
| Amplifier Research | 150A100C | Amplifier | CBT | N/A | CBT | 350132 |
| Anritsu | MN81108 | I/O Adaptor | CBT | N/A | CBT | 626174788 |
| Anritsu | ML2496A | Power Meter | 6/15/2023 | Annual | 6/15/2024 | 1138001 |
| Anritsu | ML2496A | Power Meter | 4/4/2023 | Annual | 4/4/2024 | 1840005 |
| Anritsu | MA2411B | Pulse Power Sensor | 8/22/2023 | Annual | 8/22/2024 | 1726262 |
| Anritsu | MA2411B | Pulse Power Sensor | 11/8/2023 | Annual | 11/8/2024 | 1027293 |
| Anritsu | MT8821C | Radio Communication Analyzer MT8821C | 12/15/2023 | Annual | 12/15/2024 | 620090119 626204471 |
| Anritsu Anritsu | MT8821C MT8821C | Radio Communication Analyzer MT8821C Radio Communication Analyzer MT8821C | 7/7/2023 7/5/2023 | Annual Annual | 7/7/2024 7/5/2024 | 626215000 |
| Anritsu | MT8821C | Radio Communication Analyzer MT8821C | 3/31/2023 | Annual | 3/31/2024 | 620213000 |
| Anritsu | MT8000A | Radio Communication Test Station | 3/21/2023 | Annual | 3/21/2024 | 626198798 |
| Anritsu | MT8000A | Radio Communication Test Station | 4/6/2023 | Annual | 4/6/2024 | 627233743 |
| Anritsu | MT8000A | Radio Communication Test Station | 3/1/2023 | Annual | 3/1/2024 | 627233741 |
| Anritsu | MA24106A | USB Power Sensor | 6/15/2023 | Annual | 6/15/2024 | 1827530 |
| Anritsu | MA24106A | USB Power Sensor | 12/4/2023 | Annual | 12/4/2024 | 1520501 |
| Control Company | 4052 | Long Stem Thermometer | 10/16/2023 | Biennial | 10/16/2025 | 230703247 |
| Control Company | 4052 | Long Stem Thermometer | 10/16/2023 | Biennial | 10/16/2025 | 230702935 |
| Control Company | 4052 4040 | Long Stem Thermometer | 2/17/2023 | Biennial | 2/17/2025 | 230111049 |
| Control Company Mitutoyo | 4040 500-196-30 | Therm./ Clock/ Humidity Monitor CD-6"ASX 6Inch Digital Caliper | 5/13/2021 2/16/2022 | Biennial Triennial | 5/13/2023 2/16/2025 | 210403099 A20238413 |
| eysight Technologies | N6705B | DC Power Analyzer | 5/5/2021 | Triennial | 5/5/2024 | MY5300405 |
| eysight Technologies | N9020A | MXA Signal Analyzer | 4/6/2023 | Annual | 4/6/2024 | MY4801023 |
| Agilent | N9020A | MXA Signal Analyzer | 4/26/2022 | Biennial | 4/26/2024 | MY5647020 |
| MCL | BW-N6W5+ | 6dB Attenuator | CBT | N/A | CBT | 1139 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | 7/5/2023 | Annual | 7/5/2024 | 31634 |
| Mini-Circuits | BW-N20W5+ | DC to 18 GHz Precision Fixed 20 dB Attenuator | CBT | N/A | CBT | N/A |
| Mini-Circuits | NLP-1200+ | Low Pass Filter DC to 1000 MHz | CBT | N/A | CBT | N/A |
| Mini-Circuits | NLP-2950+ | Low Pass Filter DC to 2700 MHz | CBT | N/A | CBT | N/A |
| Mini-Circuits | BW-N20W5 | Power Attenuator | CBT | N/A | CBT | 1226 |
| Mini-Circuits Narda | ZUDC10-83-S+ 4772-3 | Directional Coupler Attenuator (3dB) | CBT | N/A N/A | CBT | 2050 9406 |
| Narda | BW-S3W2 | Attenuator (3dB) | CBT | N/A | CBT | 120 |
| Seekonk | NC-100 | Torque Wrench | CBT | N/A | CBT | 22217 |
| Seekonk | NC-100 | Torque Wrench | CBT | N/A | CBT | 1262 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 7/4/2023 | Annual | 7/4/2024 | 166818 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 7/17/2023 | Annual | 7/17/2024 | 171008 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 10/16/2023 | Annual | 10/16/2024 | 170999 |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 11/13/2023 | Annual | 11/13/2024 | 1277 |
| SPEAG | DAKS-3.5 | Portable Dielectric Assessment Kit | 8/14/2023 | Annual | 8/14/2024 | 1041 |
| SPEAG | MAIA | Modulation and Audio Interference Analyzer | N/A | N/A | N/A | 1390 |
| SPEAG SPEAG | DAK-12 CLA-13 | Dielectric Assessment Kit (4MHz - 3GHz) | 3/13/2023 | Annual Annual | 3/13/2024 | 1102 1004 |
| SPEAG SPEAG | CLA-13 D1750V2 | Confined Loop Antenna 1750 MHz SAR Dipole | 11/9/2023 5/10/2022 | Annual Biennial | 11/9/2024 5/10/2024 | 1004 |
| SPEAG | D1750V2 | 1750 MHz SAR Dipole 1750 MHz SAR Dipole | 11/17/2022 | Biennial | 11/17/2024 | 1040 |
| SPEAG | D1900V2 | 1900 MHz SAR Dipole | 5/16/2022 | Biennial | 5/16/2024 | 5d030 |
| | | | 3/15/2021 | Triennial | 3/15/2024 | 1038 |
| SPEAG | D2300V2 | | | | | |
| SPEAG SPEAG | D2300V2 D2450V2 | 2300 MHz SAR Dipole 2450 MHz SAR Dipole | 11/9/2021 | Triennial | 11/9/2024 | 921 |
| | | 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole | | | 11/9/2024 5/11/2024 | 921 750 |
| SPEAG | D2450V2 | 2450 MHz SAR Dipole | 11/9/2021 | Triennial | | |
| SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 | 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 | Triennial Biennial Biennial Biennial | 5/11/2024 11/15/2024 5/11/2024 | 750 855 1042 |
| SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 | 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 11/15/2022 | Triennial Biennial Biennial Biennial Biennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 | 750 855 1042 1068 |
| SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 | 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 3500 MHz SAR Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 11/15/2022 6/9/2021 | Triennial Biennial Biennial Biennial Biennial Triennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 6/9/2024 | 750 855 1042 1068 1126 |
| SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 | 2450 MH± SAR Dipole 2450 MH± SAR Dipole 2450 MH± SAR Dipole 2450 MH± SAR Dipole 2600 MH± SAR Dipole 2600 MH± SAR Dipole 3500 MH± SAR Dipole 3500 MH± SAR Dipole | 11/9/2021 \$/11/2022 11/15/2022 5/11/2022 11/15/2022 6/9/2021 8/17/2022 | Triennial Biennial Biennial Biennial Biennial Triennial Biennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 6/9/2024 8/17/2024 | 750 855 1042 1068 1126 1055 |
| SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 | 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3700 MHz SAR Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 8/17/2022 10/21/2022 | Triennial Biennial Biennial Biennial Biennial Triennial Biennial Biennial Biennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 | 750 855 1042 1068 1126 1055 |
| SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 D3700V2 | 2450 MHE SAR Dipole 2450 MHE SAR Dipole 2450 MHE SAR Dipole 2450 MHE SAR Dipole 2600 MHE SAR Dipole 2600 MHE SAR Dipole 3600 MHE SAR Dipole 3600 MHE SAR Dipole 3700 MHE SAR Dipole 3700 MHE SAR Dipole 3700 MHE SAR Dipole 3700 MHE SAR Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 8/17/2022 10/21/2022 6/9/2021 | Triennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Triennial | 5/11/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 | 750 855 1042 1068 1126 1055 1002 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3500V2 D3700V2 D3700V2 D3900V2 | 2450 MHr 54A Dipole 2600 MHr 54A Dipole 2600 MHr 54A Dipole 3500 MHr 54A Dipole 3500 MHr 54A Dipole 3700 MHr 54A Dipole | 11/9/2021 5/11/2022 11/15/2022 11/15/2022 11/15/2022 6/9/2021 8/17/2022 10/21/2022 6/9/2021 6/10/2021 | Triennial Biennial Biennial Biennial Biennial Triennial Biennial Biennial Triennial Triennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 6/10/2024 | 750 855 1042 1068 1126 1055 1002 1097 |
| SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 D3700V2 | 2450 MHE 548 Dipole 2450 MHE 548 Dipole 2450 MHE 548 Dipole 2450 MHE 548 Dipole 2600 MHE 548 Dipole 2600 MHE 548 Dipole 3500 MHE 548 Dipole 3500 MHE 548 Dipole 3500 MHE 548 Dipole 3700 MHE 548 Dipole 3700 MHE 548 Dipole 3700 MHE 548 Dipole 3700 MHE 548 Dipole 5700 MHE 548 Dipole 5700 MHE 548 Dipole 5700 MHE 548 Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 8/17/2022 10/21/2022 6/9/2021 | Triennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Triennial Triennial Triennial | 5/11/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 | 750 855 1042 1068 1126 1055 1002 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 | 2450 MHr 54A Dipole 2600 MHr 54A Dipole 2600 MHr 54A Dipole 3500 MHr 54A Dipole 3500 MHr 54A Dipole 3700 MHr 54A Dipole | 11/9/2021 5/11/2022 11/15/2022 5/11/2022 5/11/2022 6/9/2021 8/17/2022 10/21/2022 10/21/2022 6/10/2021 6/10/2021 3/22/2022 | Triennial Biennial Biennial Biennial Biennial Triennial Biennial Biennial Triennial Triennial | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 6/10/2024 3/22/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 | 2450 Met 5-48t Dipole 2650 Met 5-48t Dipole 3550 Met 5-48t Dipole 3550 Met 5-48t Dipole 3550 Met 5-48t Dipole 3750 Met 5-48t Dipole 3750 Met 5-48t Dipole 3750 Met 5-48t Dipole 2750 Met 5-48t Dipole 5 Gitt 54R Dipole 5 Gitt 54R Dipole 75 Met 5-48t Dipole 75 Met 5-48t Dipole 75 Met 5-48t Dipole 75 Met 5-48t Dipole | 11/9/2021 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 11/15/2022 6/9/2021 10/21/2022 6/9/2021 6/10/2021 3/22/2022 10/11/2023 \$/16/2022 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Biennial Annual Annual | 5/11/2024 11/15/2024 11/15/2024 5/11/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 6/10/2024 3/22/2024 10/11/2024 5/16/2024 9/13/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D3700V2 | 2450 Met 5.48t Dipole 3450 Met 5.48t Dipole 350 Met 5.48t Dipole | 11/9/2021 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/18/2022 \$/18/2022 \$/18/2022 \$/18/2022 \$/18/2022 \$/18/2022 | Triennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Triennial Triennial Triennial Annual Annual Annual Biennial | 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 8/17/2024 8/17/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 6/10/2024 10/11/2024 5/16/2024 5/16/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 1097 40040 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D3600V2 D3500V2 D3500V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V3 D3700V3 D3700V3 D3700V3 D3700V3 D56HtV2 D6.5GHtV2 D750V3 D835V3 D835V2 D835V2 | 2450 Met 5-48t Dipole 3500 Met 5-48t Dipole 3500 Met 5-48t Dipole 3700 Met 5-48t Dipole 5 6 64t 5-48t Dipole 5 6 64t 5-48t Dipole 750 Met 5-48t Dipole 750 Met 5-48t Dipole 853 Met 5-48t Dipole 853 Met 5-48t Dipole 853 Met 5-48t Dipole | 11/9/2021 \$/11/2022 \$/11/2022 \$/11/5/2022 \$/11/5/2022 \$/11/2022 \$/9/2021 \$/11/2022 \$/9/2021 \$/11/2022 \$/12/2022 \$/11/2022 \$/11/2022 \$/13/2022 \$/13/2022 \$/13/2023 \$/16/2022 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Triennial Triennial Annual Annual Annual Annual Biennial Biennial | \$/11/2024 11/15/2024 11/15/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 6/10/2024 3/22/2024 10/11/2024 5/16/2024 9/13/2024 5/16/2024 5/16/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 1097 404040 4d108 |
| SPEAG | D2650/2 D2450/2 D2450/2 D2450/2 D2450/2 D2500/2 D2500/2 D3500/2 D3500/2 D3700/2 D3700/2 D3700/2 D3700/2 D3700/2 D3700/2 D3900/2 D55044/2 D5504/4 D750/3 D5504/4 D550/4 D5504/4 D550/4 D550 | 2450 Met 5.450 Djoble 3450 Met 5.450 Djoble 5.50 Electronic Met 5.450 Djoble 6.50 Electronic Met 5.450 Djoble 6.50 Electronic Met 5.450 Djoble 7450 Met 5.450 Djoble 7450 Met 5.450 Djoble 8450 Met 5.450 Djoble | 11/9/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 6/9/2021 8/11/2022 6/9/2021 6/10/2021 6/10/2021 6/10/2021 5/16/2022 10/11/2023 5/16/2022 11/18/2022 11/18/2022 11/18/2022 | Triennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Triennial Triennial Triennial Triennial Triennial Annual Annual Annual Annual Annual Biennial | 5/11/2024 11/15/2024 11/15/2024 15/11/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 6/9/2024 3/22/2024 10/11/2024 5/16/2024 9/13/2024 5/16/2024 11/18/2024 11/18/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 40040 4d108 4d180 |
| SPEAG | D2450/2 D2450/2 D2450/2 D2450/2 D3450/2 D3500/2 D3500/2 D3500/2 D3500/2 D3700/2 D3900/2 D3500/2 D3500/ | 2450 Mer 5.48 Dipole 3450 Mer 5.48 Dipole 3550 Mer 5.48 Dipole 3550 Mer 5.48 Dipole 3550 Mer 5.48 Dipole 3750 Mer 5.48 Dipole 5.61 ESS Mi Dipole 6.5 Die 5.48 Dipole 750 Mer 5.48 Dipole 5.51 Mer 5.48 Dipole | 11/9/2021 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2023 \$/16/2022 \$/11/2023 \$/16/2022 \$/11/2023 \$/16/2022 \$/11/2023 \$/11/2023 \$/11/2023 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Annual Annual Annual Annual Annual Annual Annual Annual | \$/11/2024 11/15/2024 11/15/2024 11/15/2024 15/11/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 6/10/2024 3/22/2024 10/11/2024 5/16/2024 9/13/2024 5/16/2024 11/18/2024 5/16/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 1097 40040 4d108 4d180 1408 |
| SPEAG | D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D3500/2 D3500/2 D3500/2 D3500/2 D3700/2 D3900/2 D3900/ | 2450 Met 5.450 Dipole 3450 Met 5.450 Dipole 6.5 Cett 5.450 Dipole 6.5 Cett 5.450 Dipole 7450 Met 5.450 Dipole 8450 Met 5.450 Dipole | 11/9/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 6/9/2021 5/11/2022 6/9/2021 5/11/2022 6/9/2021 5/11/2022 5/11/2023 5/16/2022 10/11/2023 5/16/2022 11/18/2023 5/11/2023 3/11/2023 3/11/2023 3/11/2023 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Biennial Triennial Biennial Triennial Annual | \$/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 10/21/2024 10/21/2024 6/19/2024 6/19/2024 6/19/2024 6/19/2024 10/11/2024 5/16/2024 10/11/2024 5/16/2024 5/16/2024 11/18/2024 5/11/2025 3/13/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1019 1057 1097 4d940 4d108 4d180 4d180 1188 |
| SPEAG | D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D5500/2 D5500/ | 2450 Mer 5.48 Dipole 3450 Mer 5.48 Dipole 3550 Mer 5.48 Dipole 3550 Mer 5.48 Dipole 3750 Mer 5.48 Dipole 5.51 Set 5.48 Dipole 6.5 Set 5.48 Dipole 750 Mer 5. | 11/9/2021 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/11/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/17/2022 \$/11/2023 \$/16/2022 \$/11/2023 \$/16/2022 \$/11/2023 \$/11/2023 \$/11/2023 \$/11/2023 \$/11/2023 | Triennial Biennisi Biennisi Biennisi Biennisi Biennisi Biennisi Trienniai Biennisi Trienniai Trienniai Trienniai Annuai | 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 6/9/2024 8/17/2024 10/21/2024 3/22/2024 10/11/2024 3/22/2024 10/11/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 5/11/2024 5/11/2024 | 750 855 1042 1068 1126 1055 1002 1097 1173 1019 1019 4040 4d180 4d180 1408 4d180 |
| SPEAG | D2459/2 D2459/2 D2459/2 D2459/2 D2459/2 D2509/2 D2509/2 D2509/2 D3509/2 D3509/2 D3509/2 D3509/2 D3509/2 D3509/2 D3509/2 D5504/2 D5504/ | 2450 Met 5.480 Dipole 3450 Met 5.480 Dipole 6.5 Cet 5.480 Dipole 6.5 Cet 5.480 Dipole 6.5 Met 5.480 Dipole 8450 Met 5.480 Dipole | 11/9/2021 11/19/2021 11/15/2022 11/15/2022 5/11/2022 5/11/2022 6/9/2021 10/11/2022 6/9/2021 6/10/2021 3/22/2022 10/11/2023 5/16/2022 10/11/2023 5/16/2022 11/18/2023 5/16/2022 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Biennial Triennial Triennial Triennial Annual | 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 6/19/2024 6/19/2024 6/19/2024 6/19/2024 6/19/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 1097 40940 4d108 4d180 1408 1684 701 |
| SPEAG | D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D2600/2 D5000/2 D5000/2 D5000/2 D5000/2 D3700/2 D3700/2 D3700/2 D3700/2 D3700/2 D3900/2 D5650HV2 D5650HV2 D750/3 D859/2 D859/2 D846 D464 D464 D464 D464 | 2450 Met 5.48 Dipole 3450 Met 5.48 Dipole 3470 Met 5.48 Dipole 6.5 Get 5.48 Dipole 6.5 Get 5.48 Dipole 745 Met 5.48 Dipole 85 Met 5.48 Dipole | 11/9/2021 11/15/2022 11/15/2022 11/15/2022 11/15/2022 5/11/2022 5/11/2022 5/11/2022 6/9/2021 6/19/2021 6/19/2021 6/19/2021 6/19/2021 10/11/2022 9/11/2022 9/11/2023 5/116/2022 11/18/2022 5/11/2023 9/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 | Trienrial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Trienrial Blennial Trienrial Blennial Trienrial Blennial Armaal | 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 8/17/2024 8/17/2024 10/21/2024 10/21/2024 10/21/2024 10/21/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 | 750 855 1042 1068 1126 1055 1002 1097 1013 1019 1097 4d040 4d180 4d180 1408 1684 701 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D2450V2 D2500V2 D5500V2 D5500V2 D5700V2 D5700V2 D5700V2 D5700V2 D5700V2 D5700V2 D5700V2 D5500V2 D5500V2 D5500V2 D5500V2 D5500V2 D5500V2 D5500V2 D550V3 D550V3 D550V3 D550V3 D550V4 D | 2450 Met 5.48t Dipole 3450 Met 5.48t Dipole | 11/9/2021 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 10/12/2022 10/12/2022 10/12/2022 10/12/2022 10/11/2023 10/11/2023 10/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 11/11/2023 | Triennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Biennial Triennial Biennial Triennial Biennial Triennial Biennial Arnual | 5/11/2024 11/15/2024 5/11/2024 11/15/2024 11/15/2024 11/15/2024 8/17/2024 8/17/2024 8/17/2024 8/17/2024 6/9/2024 6/9/2024 6/10/2024 3/22/2024 10/11/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1057 40940 4d108 4d180 1408 1684 701 501 501 |
| SPEAG | D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D2450/2 D2600/2 D5000/2 D5000/2 D5000/2 D5000/2 D3700/2 D3700/2 D3700/2 D3700/2 D3700/2 D3900/2 D5650HV2 D5650HV2 D750/3 D859/2 D859/2 D846 D464 D464 D464 D464 | 2450 Met 5.4M Dipole 2470 Met 5.4M Dipole 2470 Met 5.4M Dipole 2470 Met 5.4M Dipole 2470 Met 5.4M Dipole 2570 Met | 11/9/2021 11/15/2022 11/15/2022 11/15/2022 11/15/2022 5/11/2022 5/11/2022 5/11/2022 6/9/2021 6/19/2021 6/19/2021 6/19/2021 6/19/2021 10/11/2022 9/11/2022 9/11/2023 5/116/2022 11/18/2022 5/11/2023 9/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 | Trienrial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Trienrial Blennial Trienrial Blennial Trienrial Blennial Armaal | 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 8/17/2024 8/17/2024 10/21/2024 10/21/2024 10/21/2024 10/21/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 9/13/2024 | 750 855 1042 1068 1126 1055 1002 1097 1013 1019 1097 4d040 4d180 4d180 1408 1684 701 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D3450V2 D3500V2 D5500V2 D5500V | 2450 Met 5.480 Dipole 6.5 Diet 5.480 Dipole 6.5 Diet 5.480 Dipole 750 Met 5.480 Dipole 250 Met 5.480 | 11/0/021 11/0/021 11/15/022 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 | Triennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Blennial Triennial Blennial Triennial Blennial Triennial Blennial Annual | 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/11/2024 6/11/2024 6/11/2024 6/11/2024 6/11/2024 5/11/2024 | 750 855 1042 1068 1126 1055 1002 1073 1019 1057 1019 4040 4d108 4d180 1408 1408 1408 1408 1408 1408 1408 1 |
| SPEAG | D2450V2 D2450V2 D2450V2 D3450V2 D3500V2 D3500V2 D3500V2 D3500V2 D3500V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D350V3 D350V2 D350V2 D350V2 D350V2 D350V2 D350V4 D | 2450 Mer 5.450 Dipole 3450 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 6.5 Dipole 6.5 Dipole 6.5 Dipole 750 Mer 5.450 Dipole 6.5 Dipole 750 Mer 5.450 Dipole 6.5 Mer 5.450 | 11/2/021 11/15/022 | Triennial Biernial Armail Arm | 5/11/2024 | 750 855 1042 1068 1073 1073 1073 1073 1073 1073 1073 1073 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D3500V2 D5500V2 D5500V2 D5500V2 D5500V2 D5700V2 D5700V3 D5700V | 2450 Met 5-450 Dipole | 11/P/021 11/P/021 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/022 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 11/15/023 | Triennial Blernial Annual | 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/10/2024 6/10/2024 6/10/2024 5/11/2024 | 750 855 1042 1068 11068 11068 11069 1002 1097 1013 1123 11097 4004 4d108 4d108 4d108 1408 1504 1504 1604 1604 1604 1604 1604 1604 1604 16 |
| SPEAG | D2450V2 D2450V2 D2450V2 D3450V2 D3450V2 D3500V2 D3500V2 D3500V2 D3500V2 D3700V2 D3700V2 D3700V2 D3700V2 D3700V2 D350V2 D3 | 2450 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3550 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 3750 Mer 5.450 Dipole 5.55 Electronic Service Se | 11/(2021) 11/(15/022) 11/(15/0 | Tricenial Blernial Arexal | 5/11/2024 | 750 855 1042 1068 1126 1055 1002 1097 1013 1019 1057 1097 4040 4d108 1408 1408 1408 1408 1408 1408 1408 1 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D3500V2 D5500V2 D5500V2 D5500V2 D5700V2 D5700V | 2450 Met 5-450 Dipole | 11/1/021 11/1/021 11/1/021 11/1/1/021 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/023 | Triennial Blernial Blernial Blernial Blernial Blernial Blernial Blernial Triennial Blernial Annual | \$711/2024 \$711/2024 \$711/17/2024 \$711/17/2024 \$711/17/2024 \$711/17/2024 \$711/2024 | 750 855 1042 1068 1126 1055 1002 1097 1073 1123 1019 1057 46040 46108 46108 46180 1408 1504 1646 1646 1646 1646 1646 1646 1646 16 |
| SPEAG | D2450V2 D2450V2 D2450V2 D3450V2 D3500V2 D350V3 | 2450 Mer 5.4M Dipole 3450 Mer 5.4M Dipole 3450 Mer 5.4M Dipole 3450 Mer 5.4M Dipole 3450 Mer 5.4M Dipole 3470 Mer 5.4M Dipole 3470 Mer 5.4M Dipole 3470 Mer 5.4M Dipole 3470 Mer 5.4M Dipole 6.5 Dirt 5.4M Dipole 6.5 Dirt 5.4M Dipole 750 Mer 5.4M Dipole 155 Mer 5 | 13/7/021 11/15/021 11/15/021 11/15/022 | Triencial Blernial Armal | 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/11/2024 | 750 855 1042 1065 1065 1075 1077 1073 1123 1019 1057 4040 4d180 4d180 4d180 1684 1684 1684 1684 1684 1684 1684 1684 |
| SPEAG | DASS9/2 DASS9/ | 2450 Met 5-450 Dipole 3450 Met 5-450 Dipole 5-50 Met 5-450 Dipole 6-5 Diet 5-450 Dipole 6-5 Diet 5-450 Dipole 7450 Met 5-450 Dipole 845 Met 5-45 | 11/1/021 11/1/021 11/1/1/021 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/023 | Tricenial Blernial Arnal | \$711/2024 \$711/2024 \$711/17/2024 \$711/17/2024 \$711/17/2024 \$711/17/2024 \$711/17/2024 \$711/2024 | 750 |
| SPEAG | DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS0V2 DASS9V2 DASS9V | 2450 Met 5-450 Dipole 2470 Met 5-450 Dipole | 13/7/021 11/15/022 | Triennial Blernial Armanl | 5/11/2024 | 750 855 1042 1065 1076 1076 1077 1073 1123 1019 1057 1073 1123 1019 1057 4040 4d180 4d180 1684 1684 1684 1684 1684 1684 1684 1684 |
| SPEAG | DASSOV2 DASSOV | 2450 Met 5-450 Dipole 3450 Met 5-450 Dipole 6. 5 Disc 5-450 Dipole 6. 5 Disc 5-450 Dipole 7450 Met 5-450 Dipole 845 Met 5-4 | 11/p/021 11/s/021 11/s/022 11/s/s/022 11/s/s/o22 | Triennial Blernial Arnual | 5/11/2024 5/11/2024 1/11/5/2024 5/11/2024 5/11/2024 5/11/2024 1/11/5/2024 5/11/2024 1/11/5/2024 1/11/5/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 1/11/2024 | 750 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D3500V2 D3500V | 2450 Met 5-480 Dipole 3500 Met 5-480 Dipole 6-50 Cet 5-480 Dipole 750 Met 5-480 Dipole 750 Met 5-480 Dipole 255 Met 5-480 Dipole 256 Met 5-480 Dipole 257 Met 5-480 | 13/7/021 11/18/2021 | Triceroial Bleroial Arroad | 5/11/2024 | 750 750 750 750 750 750 750 750 750 750 |
| SPEAG | DASSV2 DA | 2450 Met 5.480 Dipole 3450 Met 5.480 Dipole 6.5 Dipole 6.5 Dipole 6.5 Dipole 7450 Met 5.480 Dipole 8450 Met 5. | 11/p/021 11/s/021 11/s/022 11/s/s/022 11/s/s/o22 | Triceroial Blerenial Annual | 5/11/2024 5/11/2024 1/11/5/2024 5/11/2024 1/11/5/2024 | 750 |
| SPEAG | D2450V2 D2450V2 D2450V2 D2450V2 D3500V2 D3500V | 2450 Met 5.450 Dipole | 13/7/021 11/18/2021 | Triceroial Bleroial Arroad | 5/11/2024 | 750 851 1042 1068 1126 1055 1007 1073 1019 1073 1019 10 |
| SPEAG | D2459V2 D2459V2 D2459V2 D2459V2 D3500V2 D3500V | 2450 Met 5.48 Dipole 3450 Met 5.48 Dipole 3500 Met 5.48 Dipole 3500 Met 5.48 Dipole 3500 Met 5.48 Dipole 3700 Met 5.48 Dipole 3700 Met 5.48 Dipole 3700 Met 5.48 Dipole 3700 Met 5.48 Dipole 6.5 Dipole 6.5 Dipole 6.5 Dipole 750 Met 5.48 Dipole 750 Met 5.48 Dipole 851 Met 5.48 Dipole 851 Met 5.48 Dipole 851 Met 5.48 Dipole 852 Met 5.48 Dipole 853 Met 5.48 Dipole 854 Met 5.48 Dipole 855 Met 5.48 Dipole 856 Met 5.48 Dipole 857 Met 5.48 Dipole 857 Met 5.48 Dipole 858 Met 5.48 Dipol | 13/7/021 11/18/2021 11/18/2022 | Triceroial Blernial Arnual | 5/11/2024 | 750 855 855 855 855 855 855 855 855 855 8 |
| SPEAG | DASSOV2 DASSAV2 DASSAV2 DASSAV2 DASSAV2 DASSAV4 DASSAVA | 2450 Met 5.450 Dipole | 11/1/021 11/1/021 11/1/1/021 11/1/1/021 11/1/1/022 11/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/1/022 11/1/022 11/1/1/022 | Triceriolal Blerenial Armani Arma | 5/11/2024 5/11/2024 11/15/2024 11/15/2024 11/15/2024 11/15/2024 16/15/2024 | 750 851 1042 1058 1126 1058 1058 1073 1097 10 |
| SPEAG | DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS9V2 DASS0V2 DASS0V | 2450 Met 5.480 Dipole 3450 Met 5.480 Dipole 6.5 Get 5.480 Dipole 7450 Met 5.480 Dipole 2450 Met 5.480 Dipole 2 | 13/(2021) 11/(3/021) 11/(3/022) | Triceroial Blernial Arnual | 5/11/2024 | 750 855 1042 1068 855 1068 1156 1156 1156 1156 1156 1156 1156 11 |

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.
- 2. Each equipment item was used solely within its respective calibration period.

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager |
|--------------------------------------|----------------------------|-----------------------------------|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 10 of 11 |

14 MEASUREMENT UNCERTAINTIES

For SAR Measurements

| For SAR Measurements | _ | | _ | | | | | | |
|---|--------------|-------|-------|------------------|----------------|----------------|-------|---------|-----|
| a | b | c | d | e= | f | 8 | h = | i = | k |
| | | | | f(d , k) | | | cxf/e | c x g/e | |
| | IEEE | Tol. | Prob. | | c _i | c _i | 1gm | 10gms | |
| Uncertainty Component | 1528 Sec. | (± %) | Dist. | Div. | 1gm | 10 gms | u | u | vi |
| | 000. | | | | | | (±%) | (± %) | |
| Measurement System | | | | | | | | | |
| Probe Calibration | E.2.1 | 7 | N | 1 | 1 | 1 | 7.0 | 7.0 | 00 |
| Axial Isotropy | E.2.2 | 0.25 | N | 1 | 0.7 | 0.7 | 0.2 | 0.2 | 00 |
| Hemishperical Isotropy | E.2.2 | 1.3 | N | 1 | 0.7 | 0.7 | 0.9 | 0.9 | 00 |
| Boundary Effect | E.2.3 | 2 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | 00 |
| Linearity | E.2.4 | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | 00 |
| System Detection Limits | E.2.4 | 0.25 | R | 1.732 | 1 | 1 | 0.1 | 0.1 | 00 |
| Modulation Response | E.2.5 | 4.8 | R | 1.732 | 1 | 1 | 2.8 | 2.8 | 00 |
| Readout Electronics | E.2.6 | 0.3 | N | 1 | 1 | 1 | 0.3 | 0.3 | 00 |
| Response Time | E.2.7 | 8.0 | R | 1.732 | 1 | 1 | 0.5 | 0.5 | 00 |
| Integration Time | E.2.8 | 2.6 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | 00 |
| RF Ambient Conditions - Noise | E.6.1 | 3 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | 00 |
| RF Ambient Conditions - Reflections | E.6.1 | 3 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | 00 |
| Probe Positioner Mechanical Tolerance | E.6.2 | 0.8 | R | 1.732 | 1 | 1 | 0.5 | 0.5 | 00 |
| Probe Positioning w/respect to Phantom | E.6.3 | 6.7 | R | 1.732 | 1 | 1 | 3.9 | 3.9 | 00 |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | E.5 | 4 | R | 1.732 | 1 | 1 | 2.3 | 2.3 | 00 |
| Test Sample Related | | | | | | | | | |
| Test Sample Positioning | E.4.2 | 3.12 | N | 1 | 1 | 1 | 3.1 | 3.1 | 35 |
| 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 | 00 |
| SAR Scaling | E.6.5 | 0 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | 00 |
| Phantom & Tissue Parameters | | | | | | | | | |
| Phantom Uncertainty (Shape & Thickness tolerances) | E.3.1 | 7.6 | R | 1.73 | 1.0 | 1.0 | 4.4 | 4.4 | 00 |
| 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 | 00 |
| Liquid Permittivity - Temperature Unceritainty | E.3.4 | 0.6 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | 00 |
| Liquid Conductivity - deviation from target values | E.3.2 | 5.0 | R | 1.73 | 0.64 | 0.43 | 1.8 | 1.2 | 00 |
| Liquid Permittivity - deviation from target values | E.3.2 | 5.0 | R | 1.73 | 0.60 | 0.49 | 1.7 | 1.4 | 00 |
| Combined Standard Uncertainty (k=1) | | | RSS | | 1 | | 12.2 | 12.0 | 191 |
| Expanded Uncertainty k=2 | | | | | | | 24.4 | 24.0 | |
| (95% CONFIDENCE LEVEL) | | | | | | | | | |

The above measurement uncertainties are according to IEEE Std. 1528-2013

| FCC ID: BCGA2837 | PART 0 SAR CHAR REPORT | Approved by: Technical Manager | | |
|--|----------------------------|-----------------------------------|--|--|
| Document S/N: 1C2311270068-01.BCG | DUT Type: Tablet Device | Page 11 of 11 | | |