



PART 0 SAR CHAR REPORT

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Date of Testing:

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Test Site/Location:

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FCC ID:**A3LSMA576B****APPLICANT:****SAMSUNG ELECTRONICS CO., LTD****Report Type:****Part 0 SAR Characterization****DUT Type:****Portable Handset****Model(s):****SM-A576B/DS****Additional Model:****SM-A576B**

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.



RJ Ortanez
Executive Vice President



FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 1 of 12

REV 1.1
04/08/2022

TABLE OF CONTENTS

1	DEVICE UNDER TEST	3
1.1	Device Overview	3
1.2	Time-Averaging for SAR	4
1.3	Nomenclature for Part 0 Report	4
1.4	Bibliography	4
2	SAR MEASUREMENTS	5
2.1	SAR Definition	5
2.2	SAR Measurement Procedure	5
3	SAR CHARACTERIZATION	7
3.1	RSI and SAR Determination	7
3.2	SAR Design Target	7
3.3	SAR Char	8
4	EQUIPMENT LIST	10
5	MEASUREMENT UNCERTAINTIES	12

APPENDIX A: SAR TEST RESULTS FOR PLimit CALCULATIONS

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 2 of 12

REV 1.1
04/08/2022

1 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
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

This device uses time-averaged SAR (TAS) feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement for WWAN/WLAN/BT operations via S.LSI TAS. Additionally, this device supports NFC, but the output power of this modem is not controlled by the TAS algorithm.

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 3 of 12

REV 1.1
04/08/2022

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1.2 Time-Averaging for SAR

This device incorporates the Samsung S.LSI proprietary TAS (Time-Averaged SAR) feature for 2G, 3G, 4G, 5G, WLAN, and Bluetooth operations. The TAS feature implements a real-time time-averaging algorithm to dynamically control and manage the transmit power, such that the time-averaged RF exposure remains compliant with FCC requirements over the applicable averaging duration. This Part 0 report shows SAR characterization for all radios supported under the TAS algorithm. Characterization is achieved by determining P_{limit} for such radios that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_{design_target} (< FCC SAR limit). 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, WLAN, and Bluetooth 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
2G/3G/4G/5G/ Sub-6 NR/WLAN/BT	P_{limit}	Power level that corresponds to the exposure design target (SAR_{design_target}) after accounting for all device design related uncertainties
	P_{max}	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 P_{limit} for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
RF Exposure Part 1 test Report	1M2510280091-01.A3L
RF Exposure Part 2 Test Report	1M2510280091-03.A3L
RF Exposure Compliance Summary	1M2510280091-04.A3L

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 4 of 12

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/m ³)
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 2-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013. On the

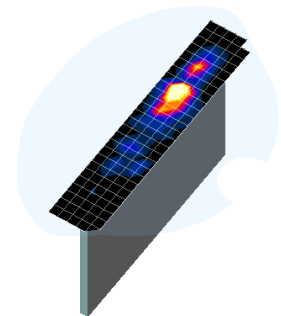


Figure 2-1
Sample SAR Area Scan

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 5 of 12

REV 1.1
04/08/2022

basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

- a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 6 of 12

3 SAR CHARACTERIZATION

3.1 RSI and SAR Determination

For WWAN, WLAN, and Bluetooth operations this device uses different Radio State Index (RSI) via S.LSI TAS 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 RSI. 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 radio state index (RSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1
RSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (RSI = 1)	- Device positioned next to head - Receiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (RSI = 0)	- Device transmits in hotspot mode near body - Hotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (RSI = 0)	Device is held with hand	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (RSI = 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**

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	1.0 W/kg	<i>SAR_design_target</i>	2.5 W/kg

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 7 of 12

3.3 SAR Char

SAR test results corresponding to P_{max} for each antenna/technology/band/RSI can be found in Appendix A and Section 12 of the RF Exposure Part 1 Test Report.

P_{limit} is calculated by linearly scaling with the measured SAR at the P_{part0} to correspond to the SAR_{design_target} . The final P_{limit} determination for each exposure scenario corresponding to SAR_{design_target} are shown in Table 3-3.

Table 3-3
***P*Limit Determination**

Radio State Index (RSI)	<i>P</i> Limit Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit (i.e. lowest P_{limit}) among: 1. P_{limit} is calculated based on 1g Body Worn SAR at 5mm 2. P_{limit} is calculated based on 1g Hotspot SAR at 10 mm 3. P_{limit} is calculated based on 10g Phablet SAR measured at 0 mm spacing
1	P_{limit} is calculated based on 1g Head SAR

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 8 of 12

**Table 3-4
SAR Characterizations**

Exposure Scenario			Maximum Tune-Up Output Power*	Body-Worn, Hotspot, or Phablet	Head
Averaging Volume				1g/10g	1g
Spacing				10mm, 5mm, 0mm	0mm
RSI				0	1
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.6	20.8	31.5
GSM 850	E	AG1	24.8	19.3	19.3
GSM 1900	A	AG0	21.3	17.8	32.0
UMTS 850	A	AG0	24.0	22.0	36.8
UMTS 850	E	AG1	23.5	21.0	21.0
UMTS 1750	A	AG0	23.5	16.5	31.8
UMTS 1900	A	AG0	23.5	16.0	21.0
LTE Band 12/17	A	AG0	24.5	22.0	33.6
LTE Band 12/17	E	AG1	24.0	20.0	20.0
LTE Band 13	A	AG0	24.0	22.0	31.3
LTE Band 13	E	AG1	23.5	19.0	19.0
LTE Band 26/5	A	AG0	24.0	22.0	31.9
LTE Band 26/5	E	AG1	23.5	19.0	19.0
LTE Band 66/4	A	AG0	23.5	18.0	32.4
LTE Band 66/4	F	AG1	23.0	19.0	19.0
LTE Band 25/2	A	AG0	23.5	18.0	33.0
LTE Band 25/2	F	AG1	23.0	20.0	20.0
LTE Band 41	B	AG0	21.0	18.0	32.6
LTE Band 41	F	AG1	21.0	14.0	14.0
NR Band n5	A	AG0	24.0	22.0	31.6
NR Band n5	E	AG1	23.5	20.0	20.0
NR Band n66	A	AG0	23.5	18.0	31.6
NR Band n66	F	AG1	23.0	17.5	17.5
NR Band n41 PC3	B	AG0	23.5	17.0	32.4
NR Band n41 SRS2 PC3	F	AG1	22.5	15.5	15.5
NR Band n41 SRS3 PC3	H	AG1	23.0	15.0	15.0
NR Band n41 SRS4 PC3	J	AG1	22.0	16.0	16.0
NR Band n77 PC3	F	AG1	23.5	15.0	15.0
NR Band n77 PC2	F	AG1	26.0	15.0	15.0
2.4 GHz WIFI	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	J	AG1	16.0	14.0	12.0
5 GHz WIFI	G	AG1	16.0	19.1	13.0
5 GHz WIFI MIMO	E	AG1	14.0	16.4	11.0
5 GHz WIFI MIMO	G	AG1	16.0	19.4	13.0
6 GHz WIFI	G	AG1	9.0	20.6	16.8
6 GHz WIFI MIMO	E	AG1	6.0	18.7	15.6
6 GHz WIFI MIMO	G	AG1	9.0	21.6	18.1
2.4 GHz Bluetooth	H	AG1	16.8	20.1	19.1

Notes:

1. All Final Plimit 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 (e.g. GSM and LTE TDD).
2. Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
3. The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and RSI = minimum of "final Plimit " and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.
4. All MIMO P_{max} and Plimit are defined per antenna chain

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 9 of 12

4 EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	3051A00187
Agilent	N5182A	MXG Vector Signal Generator	2025-05-30	Annual	2026-05-30	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	2025-08-01	Annual	2026-08-01	MY47420651
Agilent	8753ES	S-Parameter Vector Network Analyzer	2025-01-06	Annual	2026-01-06	MY40001472
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Agilent	E5515C	Wideband Radio Communication Tester	2025-07-03	Annual	2026-07-03	MY50262130
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Rohde & Schwarz	NRP2	Power Meter	2025-05-23	Annual	2026-05-23	103084
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	2025-06-09	Annual	2026-06-09	6201144418
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	2025-03-14	Annual	2026-03-14	6201381794
Anritsu	MT8000A	Radio Communication Test Station	2025-06-04	Annual	2026-06-04	6261914237
Anritsu	MT8000A	Radio Communication Test Station	2025-06-05	Annual	2026-06-05	6261987986
Anritsu	MA24106A	USB Power Sensor	2025-05-29	Annual	2026-05-29	1344554
Anritsu	MA24106A	USB Power Sensor	2025-06-26	Annual	2026-06-26	1827529
Anritsu	MA24106A	USB Power Sensor	2025-07-03	Annual	2026-07-03	1244512
Anritsu	MA24106A	USB Power Sensor	2025-07-03	Annual	2026-07-03	1344557
Control Company	4052	Long Stem Thermometer	2024-02-27	Biennial	2026-02-27	240174346
Control Company	4052	Long Stem Thermometer	2024-02-27	Biennial	2026-02-27	240171096
Control Company	4052	Long Stem Thermometer	2024-02-27	Biennial	2026-02-27	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	2024-04-15	Biennial	2026-04-15	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	2024-10-15	Biennial	2026-10-15	240763503
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	2025-07-03	Annual	2026-07-03	83316952
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	2025-07-03	Annual	2026-07-03	83316953
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	2025-07-03	Annual	2026-07-03	83316970
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	2025-07-03	Annual	2026-07-03	83316971
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	2025-07-03	Annual	2026-07-03	83317000
Keysight Technologies	N9020A	MXA Signal Analyzer	2025-07-07	Annual	2026-07-07	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	2028
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	CBT	N/A	CBT	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	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	2024-04-02	Biennial	2026-04-02	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-01-10	Annual	2026-01-10	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2024-08-27	Biennial	2026-08-27	167085
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-01-06	Annual	2026-01-06	131454
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-07-09	Annual	2026-07-09	166462
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-02-22	Annual	2026-02-22	168527
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-01-06	Annual	2026-01-06	150117

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 10 of 12

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
SPEAG	DAK-3.5	Dielectric Assessment Kit	2025-08-05	Annual	2026-08-05	1041
SPEAG	DAKS-3.5	Dielectric Assessment Kit	2025-07-14	Annual	2026-07-14	1039
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1580
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1515
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1384
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	2025-03-10	Annual	2026-03-10	1102
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	2025-07-14	Annual	2026-07-14	1039
SPEAG	CLA-13	Confined Loop Antenna	2025-09-04	Annual	2026-09-04	1002
SPEAG	D750V3	750 MHz SAR Dipole	2025-02-12	Annual	2026-02-12	1046
SPEAG	D750V3	750 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	1003
SPEAG	D835V2	835 MHz SAR Dipole	2024-01-18	Biennial	2026-01-18	4d132
SPEAG	D835V2	835 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	4d119
SPEAG	D835V2	835 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	4d180
SPEAG	D1750V2	1750 MHz SAR Dipole	2024-11-07	Biennial	2026-11-07	1150
SPEAG	D1750V2	1750 MHz SAR Dipole	2025-01-13	Annual	2026-01-13	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	2025-06-04	Annual	2026-06-04	1092
SPEAG	D1900V2	1900 MHz SAR Dipole	2025-02-07	Annual	2026-02-07	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	5d026
SPEAG	D2450V2	2450 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	945
SPEAG	D2450V2	2450 MHz SAR Dipole	2025-02-12	Annual	2026-02-12	882
SPEAG	D2600V2	2600 MHz SAR Dipole	2025-08-11	Annual	2026-08-11	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	2025-06-03	Annual	2026-06-03	1009
SPEAG	D3500V2	3500 MHz SAR Dipole	2025-06-02	Annual	2026-06-02	1127
SPEAG	D3700V2	3700 MHz SAR Dipole	2025-06-02	Annual	2026-06-02	1096
SPEAG	D3900V2	3900 MHz SAR Dipole	2025-06-02	Annual	2026-06-02	1074
SPEAG	D5GHZV2	5 GHz SAR Dipole	2025-02-11	Annual	2026-02-11	1120
SPEAG	D5GHZV2	5 GHz SAR Dipole	2025-06-02	Annual	2026-06-02	1237
SPEAG	D6.5GHZV2	6.5 GHz SAR Dipole	2025-02-04	Annual	2026-02-04	1111
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	2025-03-04	Annual	2026-03-04	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-11-05	Annual	2026-11-05	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-05-09	Annual	2026-05-09	1678
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-01-13	Annual	2026-01-13	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-04-10	Annual	2026-04-10	1272
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2025-02-07	Annual	2026-02-07	1638
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-04-07	Annual	2026-04-07	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-06-04	Annual	2026-06-04	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-01-14	Annual	2026-01-14	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-06-04	Annual	2026-06-04	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-09-10	Annual	2026-09-10	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-10-13	Annual	2026-10-13	1583
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2025-10-13	Annual	2026-10-13	1449
SPEAG	EX3DV4	SAR Probe	2025-11-07	Annual	2026-11-07	7406
SPEAG	EX3DV4	SAR Probe	2025-05-09	Annual	2026-05-09	7660
SPEAG	EX3DV4	SAR Probe	2025-01-07	Annual	2026-01-07	7713
SPEAG	EX3DV4	SAR Probe	2025-04-07	Annual	2026-04-07	7659
SPEAG	EX3DV4	SAR Probe	2025-02-10	Annual	2026-02-10	7570
SPEAG	EX3DV4	SAR Probe	2025-04-11	Annual	2026-04-11	7546
SPEAG	EX3DV4	SAR Probe	2025-06-12	Annual	2026-06-12	7637
SPEAG	EX3DV4	SAR Probe	2025-08-12	Annual	2026-08-12	7491
SPEAG	EX3DV4	SAR Probe	2025-06-12	Annual	2026-06-12	7402
SPEAG	EX3DV4	SAR Probe	2025-09-15	Annual	2026-09-15	7558
SPEAG	EX3DV4	SAR Probe	2025-10-13	Annual	2026-10-13	7803
SPEAG	EUmmWV3	EUmmWV3 Probe	2025-03-12	Annual	2026-03-12	9421

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

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 11 of 12

5 MEASUREMENT UNCERTAINTIES

For SAR Measurements

SAR Uncertainty Budget based on IEEE 1528-2013 (0.3 GHz to 10 GHz)

a	b	c	d	e f(d,k)	f	g	h cx/f/e	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.60	R	1.73	0.23	0.26	0.08	0.09	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.1	12.9	150
Expanded uncertainty (95% confidence interval)							26.2	25.8	

FCC ID: A3LSMA576B	RF EXPOSURE PART 0 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2510280091-02.A3L	DUT Type: Portable Handset	Page 12 of 12