

# SAR Test Report

## Part 3 of 3 Annex E

**Project Number:** 5106021      **Quotation Number:** SUW-202301003949  
**Report Number:** 5106021EMC01      **Revision Level:** 1  
**Client:** Aegex Technologies, LLC

**Equipment Under Test:** Tablet  
**Model Name:** Aegex100M  
**Model Number:** 100M

**FCC ID:** Contains 2AGVY-100MWBXX01

**IC:** Contains 21074-100MWBXX01

**Applicable Standards:** IEC 62209-1528

**Report issued on:** 25 September 2024

**Test Result:** Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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Tested by:

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## APPENDIX E - MEASUREMENT UNCERTAINTY BUDGET

<b>Test Name:</b>	SAR 62209 (0.3 to 6 GHz range)
<b>Instrument(s) Used:</b>	DASY 52 SAR Measurement System
<b>Standard(s) Reference:</b>	IEC 62209

Symbol	Source of Uncertainty	Value	Probability Distribution	Divisor	ci (1g)	ci (10g)	Std. Unc. (1g)	Std. Unc. (10g)	vi or veff
	<b>MEASUREMENT DESCRIPTION</b>								
	Probe Calibration	6.0%	N1	1	1	1	6.0%	6.0%	inf
	Axial Isotropy	4.7%	R	1.732	0.7	0.7	1.9%	1.9%	inf
	Hemispherical Isotropy	9.6%	R	1.732	0.7	0.7	3.9%	3.9%	inf
	Linearity	4.7%	R	1.732	1	1	2.7%	2.7%	inf
	System Detection Limits	1.0%	R	1.732	1	1	0.6%	0.6%	inf
	Modulation Response	2.4%	R	1.732	1	1	1.4%	1.4%	inf
	Boundary Effects	2.0%	R	1.732	1	1	1.2%	1.2%	inf
	Readout Electronics	0.3%	N1	1	1	1	0.3%	0.3%	inf
	Response Time	0.8%	R	1.732	1	1	0.5%	0.5%	inf
	Integration Time	2.6%	R	1.732	1	1	1.5%	1.5%	inf
	RF Ambient Noise	3.0%	R	1.732	1	1	1.7%	1.7%	inf
	RF Ambient Reflections	3.0%	R	1.732	1	1	1.7%	1.7%	inf
	Probe Positioner	0.8%	R	1.732	1	1	0.5%	0.5%	inf
	Probe Positioning	6.7%	R	1.732	1	1	3.9%	3.9%	inf
	Post Processing	4.0%	R	1.732	1	1	2.3%	2.3%	inf
	<b>TEST SAMPLE RELATED</b>								
	Device Positioning	2.9%	N1	1	1	1	2.9%	2.9%	inf
	Device Holder	3.6%	N1	1	1	1	3.6%	3.6%	inf
	Power Drift	5.0%	R	1.732	1	1	2.9%	2.9%	inf
	Power Scaling	0.0%	R	1.732	1	1	0.0%	0.0%	inf
	<b>PHANTOM AND SETUP</b>								
	Phantom Uncertainty	7.9%	R	1.732	1	1	4.6%	4.6%	inf
	SAR correction	1.9%	R	1.732	1	0.84	1.1%	0.9%	inf
	Liquid Conductivity(meas.)	2.5%	N1	1	0.78	0.71	2.0%	1.8%	inf
	Liquid Permittivity(meas.)	2.5%	N1	1	0.26	0.26	0.7%	0.7%	inf
	Temp. unc. - Conductivity	1.7%	R	1.732	0.78	0.71	0.8%	0.7%	inf
	Temp. unc. - Permittivity	0.3%	R	1.732	0.23	0.26	0.0%	0.0%	inf
			n1	1	1	1	0.0%	0.0%	inf

uc(Fs)	Combined Standard Uncertainty	N1	1	12.3%	12.3%
U(Fs)	Expanded Uncertainty	Normal k=	2	<b>24.6%</b>	<b>24.5%</b>

**The Expanded Uncertainty is 24.6% for a Normal k factor equal to 2**

## REVISION HISTORY

Revision Level	Description of changes	Revision Date
0	Initial release	23 August 2024
1	Split annex E & F from G to reduce file size	25 September 2024