

SPORTON INTERNATIONAL INC.

Error Description	Uncertainty Value ± %	Probability Distribution	Divisor	Ci (1g)	Standard Unc. (1g)
Measurement Equipment					
Probe Calibration	±5.9 %	Normal	1	1	±5.9 %
Axial Isotropy	±4.7 %	Rectangular	√3	0.7	±1.9 %
Hemispherical Isotropy	±9.6 %	Rectangular	√3	0.7	±3.9 %
Boundary Effects	±1.0 %	Rectangular	√3	1	±0.6 %
Linearity	±4.7 %	Rectangular	√3	1	±2.7 %
System Detection Limits	±1.0 %	Rectangular	√3	1	±0.6 %
Readout Electronics	±0.3 %	Normal	1	1	±0.3 %
Response Time	±0.8 %	Rectangular	√3	1	±0.5 %
Integration Time	±2.6 %	Rectangular	√3	1	±1.5 %
RF Ambient Noise	±3.0 %	Rectangular	√3	1	±1.7 %
RF Ambient Reflections	±3.0 %	Rectangular	√3	1	±1.7 %
Probe Positioner	±0.4 %	Rectangular	√3	1	±0.2 %
Probe Positioning	±2.9 %	Rectangular	√3	1	±1.7 %
Max. SAR Eval.	±1.0 %	Rectangular	√3	1	±0.6 %
Test Sample Related					
Device Positioning	±4.0 %	Normal	1	1	±4.0 %
Device Holder	±3.6 %	Normal	1	1	±3.6 %
Power Drift	±4.5 %	Rectangular	√3	1	±2.6 %
Phantom and Setup					
Phantom Uncertainty	±4.0 %	Rectangular	√3	1	±2.3 %
Liquid Conductivity (target)	±5.0 %	Rectangular	√3	0.64	±1.8 %
Liquid Conductivity (meas.)	±5.0 %	Normal	1	0.64	±3.2 %
Liquid Permittivity (target)	±5.0 %	Rectangular	√3	0.6	±1.7 %
Liquid Permittivity (meas.)	±5.0 %	Normal	1	0.6	±3.0 %
Combined Standard Uncertainty					±11.8 %
Coverage Factor for 95 % K=2					
Expanded uncertainty (Coverage factor = 2)					±23.7 %

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-> The system noise is within ±5µV which is meet SPEAG suggestion.

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-> The value is evaluated by 30 times SAR tests repeatably and 5 different engineers.

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-> The power drift of spec. in SOP of Sporton is ±0.2 dB.

-> Follow the evaluation of SPEAG.

-> The tolerance in Standard is ±5%.

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