

Appendix A: Test Plots

RF SAFETY LABORATORY

DASY8 Module WPT Measurement Report

Device under test

Info:
CTA006

Serial number:
00074

Scenario:
Back, 111-148 kHz

Tool info

DASY software version:
DASY8 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000267, 2024/10/10

Software version:
2.8.8, backend: 2.2.36

Scan info

Center location:
x: -6.78 mm, y: -4.81 mm, z: 76.79 mm

Dimensions:
x: 168.9 mm, y: 168.9 mm, z: 36.7 mm

Resolution:
x: 7.33 mm, y: 7.33 mm, z: 7.33 mm

Completed on:
2025/08/04

Measurement results

Maximum H-field [rms]:
MAGNITUDE: 18.81 A/m
x: 3.20 A/m, y: 578.14 mA/m, z: 18.53 A/m

Maximum H-field location relative to DUT:
x: 40.33 mm, y: 3.67 mm, z: 8.50 mm

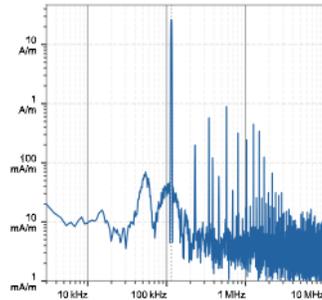
Maximum E-field [rms]:
MAGNITUDE: 101.21 V/m
x: 10.84 V/m, y: 2.03 V/m, z: 100.61 V/m

Maximum E-field location relative to DUT:
x: 44.00 mm, y: 7.33 mm, z: 0.00 m

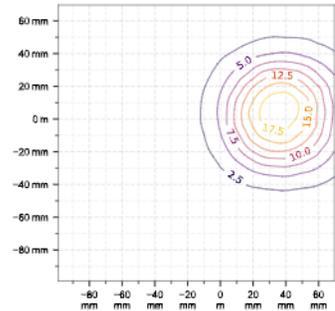
Distance to -20.0 dB boundary:
51.33 mm

Offset relative to DUT:
x: 0.00 m, y: 0.00 m, z: 1.00 mm

H-field magnitude [rms] at center location



H-field magnitude [rms] at lowest plane



Incident fields and induced fields in the homogeneous phantom at the peak frequency (f = 115.37 kHz, $\sigma = 0.750 \text{ S/m}$, tissue density = 1,000 kg/m³)

| Distance [mm] | Peak incident fields [rms] | | | | Peak E _{ind} [V/m, rms] | | | Peak J _{ind} [A/m ² , rms] | | psSAR [mW/kg] | | H-field extent -20 dB radius [mm] | Sign | Vector potential | Warnings Boundary effect |
|---------------|----------------------------|------------------------|-----------|-------|----------------------------------|--------------|---------|--|------|---------------|----|--------------------------------------|------|------------------|-----------------------------|
| | H _{inc} [A/m] | E _{inc} [V/m] | Cube avg. | Local | Line avg. | Surface avg. | 1g avg. | 10g avg. | | | | | | | |
| 0.00 | 35.0 | 101 | 0.237 | 0.239 | 0.239 | 0.163 | 0.0318 | 0.0179 | 46.6 | 9% | 6% | 100% | | | |

Compliance evaluation (Field values at the peak frequency) (f=115.37 kHz, total field evaluation, coverage evaluation)

| Distance [mm] | ICNIRP 2010/2020 | | | | ICNIRP 1998 | | | | IEEE 2019 | | | | FCC | | | | HC Code 6 | | | |
|---------------|------------------|-------------------------|-------------------------|---------------|-------------|-------------------------|---------------------------------------|---------------|------------|-------------------------|-------------------------|---------------|------------|-------------------------|-------------------------|---------------|-----------|-------------------------|-------------------------|---------------|
| | RL [μV/m] | pE _{inc} [V/m] | pE _{ind} [V/m] | psSAR [mW/kg] | RL [μV/m] | pE _{inc} [V/m] | pJ _{ind} [A/m ²] | psSAR [mW/kg] | ERL [μV/m] | pE _{inc} [V/m] | pE _{ind} [V/m] | psSAR [mW/kg] | MPE [μV/m] | pE _{inc} [V/m] | pE _{ind} [V/m] | psSAR [mW/kg] | RL [μV/m] | pE _{inc} [V/m] | pE _{ind} [V/m] | psSAR [mW/kg] |
| 0.00 | 35.0 | 101 | 1.30 | 0.0179 | 35.0 | 101 | 0.166 | 0.0179 | 35.0 | 101 | 0.722 | 0.0179 | 35.0 | 101 | N/A | 0.0318 | 35.0 | 101 | 1.86 | 0.0318 |

Coverage factors: $W_{E_{inc, cube avg.}} = [5.50]$, $W_{E_{inc, local}} = [7.77]$, $W_{E_{inc, line avg.}} = [3.00]$

Compliance evaluation (Exposure ratios) (with multi-frequency enhancement, total field evaluation, coverage evaluation, ratios in dB)

| Distance [mm] | ICNIRP 2010/2020 | | | | ICNIRP 1998 | | | | IEEE 2019 | | | | FCC | | | | HC Code 6 | | | | | | | | | |
|---------------|------------------|-------|------|-------|-------------|-------|------|------|-----------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-----|-------|-------|------|------|-----|-------|-------|
| | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | NS | TH | | | | | | |
| 0.00 | 4.43 | -1.69 | 4.87 | -27.3 | -21.5 | -50.5 | 16.9 | 4.33 | -2.81 | -50.5 | -13.4 | -19.1 | -12.5 | -22.4 | -30.5 | -50.5 | 26.6 | -12.4 | N/A | -47.0 | -8.21 | 14.9 | 4.87 | N/A | -18.4 | -47.0 |

Coverage factors: $W_{E_{inc, cube avg.}} = [5.50]$, $W_{E_{inc, local}} = [7.77]$, $W_{E_{inc, line avg.}} = [3.00]$