Annex B: Measurement Results

Tested Model : XG03Pro

Report Number: WSCT-ANAB-R&E250300016A-SAR

cDASY6 Module WPT Measurement Report

Device under test

Info:
XG03Pro Front

Serial number:
not set

Scenario:
not set

Tool info

DASY software version:
cDASY6 Module WPT 2.8.0.5184

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000270, *2024/11/01*

Software version:
2.8.8, *backend: 2.2.36*

Scan info

Center location:
x: -12.43 mm, **y:** 59.45 mm, **z:** 45.24 mm

Dimensions:
x: 124.6 mm, **y:** 124.5 mm, **z:** 36.7 mm

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

Completed on:
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Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 605.19 mA/m
X: 129.52 mA/m, **Y:** 72.71 mA/m, **Z:** 586.68 mA/m

Maximum H-field location relative to DUT:
X: 25.67 mm, **Y:** 47.67 mm, **Z:** 8.50 mm

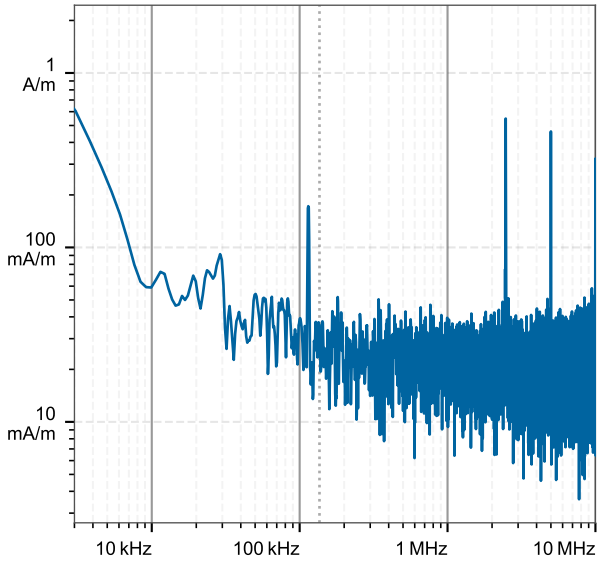
Maximum E-field [RMS]:
MAGNITUDE: 179.34 V/m
X: 538.15 mV/m, **Y:** 618.06 mV/m, **Z:** 179.34 V/m

Maximum E-field location relative to DUT:
X: 0.00 m, **Y:** 0.00 m, **Z:** 0.00 m

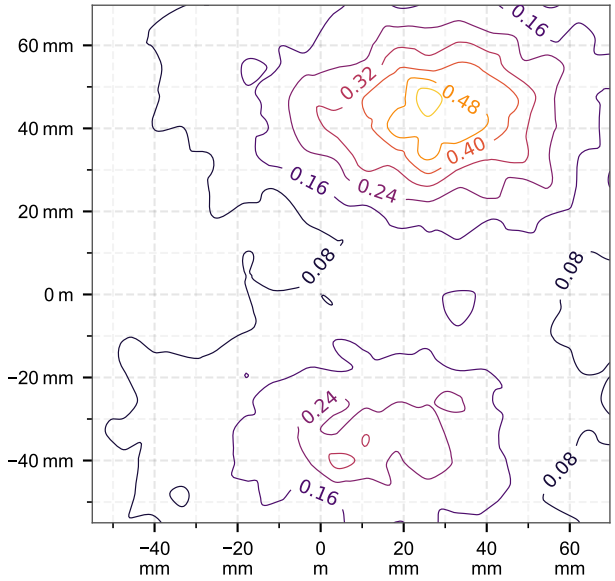
Distance to -20.0 dB boundary:
52.88 mm

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 homogeous phantom at the peak frequency

(f = 134.43 kHz, σ = 0.750 S/m, tissue density = 1,000 kg/m^3)

	Peak incident fields [RMS]		Peak E_{ind} [V/m, RMS]			Peak J_{ind} [A/m^2, RMS]	psSAR [mW/kg]		H-field extent	Warnings		
Distance [mm]	H_{inc} [A/m]	E_{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]	Sign	Vector potential	Boundary effect
0.00	1.09	149	6.31e-3	6.48e-3	6.48e-3	4.18e-3	1.87e-5	8.85e-6	60.9	36%	27%	98%
5.00	0.760	89.9	4.65e-3	4.75e-3	4.75e-3	3.12e-3	1.01e-5	5.18e-6	63.7	36%	27%	100%
10.0	0.511	44.9	3.69e-3	3.78e-3	3.77e-3	2.4e-3	6.05e-6	3.24e-6	68.8	36%	27%	100%
15.0	0.325	32.4	2.84e-3	2.90e-3	2.90e-3	1.89e-3	3.88e-6	2.14e-6	71.0	36%	27%	100%
20.0	0.223	30.7	2.35e-3	2.41e-3	2.4e-3	1.56e-3	2.64e-6	1.43e-6	71.1	36%	27%	100%

Compliance evaluation (Field values at the peak frequency)

(f=134.43 kHz, total field evaluation, coverage evaluation)

	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [RMS]		BR [RMS]		RL [RMS]		BR [RMS]		ERL [RMS]		DRL [RMS]		MPE [RMS]		BR [RMS]		RL [RMS]		BR [RMS]	
Distance	pH_{inc}	pE_{inc}	pE_{ind}	psSAR	pH_{inc}	pE_{inc}	pJ_{ind}	psSAR	pH_{inc}	pE_{inc}	pE_{ind}	psSAR	pH_{inc}	pE_{inc}	pE_{ind}	psSAR	pH_{inc}	pE_{inc}	pE_{ind}	psSAR
[mm]	[A/m]	[V/m]	[V/m]	[mW/kg]	[A/m]	[V/m]	[A/m^2]	[mW/kg]	[A/m]	[V/m]	[V/m]	[mW/kg]	[A/m]	[V/m]	[V/m]	[mW/kg]	[A/m]	[V/m]	[V/m]	[mW/kg]
0.00	1.09	149	0.0428	4.33e-5	1.09	149	9.26e-3	4.33e-5	1.09	149	0.0268	4.33e-5	1.09	149	N/A	5.31e-5	1.09	149	0.0591	5.31e-5
5.00	0.760	89.9	0.0308	1.77e-5	0.760	89.9	6.18e-3	1.77e-5	0.760	89.9	0.0189	1.77e-5	0.760	89.9	N/A	2.26e-5	0.760	89.9	0.0427	2.26e-5
10.0	0.511	44.9	0.0232	5.4e-6	0.511	44.9	3.67e-3	5.4e-6	0.511	44.9	0.0135	5.4e-6	0.511	44.9	N/A	8.21e-6	0.511	44.9	0.0328	8.21e-6
15.0	0.325	32.4	0.0179	3.27e-6	0.325	32.4	2.81e-3	3.27e-6	0.325	32.4	0.0104	3.27e-6	0.325	32.4	N/A	5.01e-6	0.325	32.4	0.0253	5.01e-6
20.0	0.223	30.7	0.0149	2.44e-6	0.223	30.7	2.43e-3	2.44e-6	0.223	30.7	8.73e-3	2.44e-6	0.223	30.7	N/A	3.66e-6	0.223	30.7	0.0211	3.66e-6

Coverage factors: $w_{E_{ind,\ cube\ avg.}}$ = [5.71, 5.76, 5.83, 5.86, 5.87], $w_{E_{ind,\ local}}$ = [8.07, 8.13, 8.24, 8.28, 8.29], $w_{E_{ind,\ line\ avg.}}$ = [3.09, 3.11, 3.14, 3.16, 3.16]

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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					
	RL				BR		RL		BR		ERL				DRL		MPE		BR		RL				BR	
	pH_{inc}		pE_{inc}		pE_{ind}	psSAR	pH_{inc}	pE_{inc}	pJ_{ind}	psSAR	pH_{inc}		pE_{inc}		pE_{ind}	psSAR	pH_{inc}	pE_{inc}	pE_{ind}	psSAR	pH_{inc}		pE_{inc}		pE_{ind}	psSAR
	NS	TH	NS	TH	NS	TH	N/A	N/A	NS	TH	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	TH	NS	TH	NS	TH	NS	TH
0.00	-25.7	-30.5	43.1	39.2	-31.5	-40.1	-13.2	48.1	2.02	-40.1	-43.5	-47.9	25.7	40.8	-36.0	-40.1	-3.5	29.7	N/A	-39.1	-38.3	-14.0	43.1	N/A	-31.2	-39.1
5.00	-28.8	-33.6	38.7	34.8	-35.7	-44.5	-16.4	43.7	-2.33	-44.5	-46.6	-51.0	21.3	36.4	-40.3	-44.5	-6.63	25.4	N/A	-43.5	-41.5	-17.1	38.7	N/A	-35.4	-43.5
10.0	-32.3	-37.1	31.1	27.1	-42.7	-52.1	-19.8	36.1	-9.87	-52.1	-50.1	-54.5	13.7	28.7	-47.5	-52.1	-10.1	17.7	N/A	-51.1	-44.9	-20.5	31.1	N/A	-42.1	-51.1
15.0	-36.2	-41.0	28.2	24.3	-45.4	-54.9	-23.7	33.2	-12.7	-54.9	-54.0	-58.4	10.8	25.9	-50.3	-54.9	-14.0	14.9	N/A	-54.0	-48.8	-24.5	28.2	N/A	-44.8	-54.0
20.0	-39.5	-44.3	27.8	23.8	-46.1	-55.4	-27.0	32.8	-13.2	-55.4	-57.3	-61.7	10.4	25.4	-50.8	-55.4	-17.3	14.4	N/A	-54.4	-52.1	-27.7	27.8	N/A	-45.5	-54.4

Coverage factors: $w_{E_{ind,\ cube\ avg.}}$ = [5.71, 5.76, 5.83, 5.86, 5.87], $w_{E_{ind,\ local}}$ = [8.07, 8.13, 8.24, 8.28, 8.29], $w_{E_{ind,\ line\ avg.}}$ = [3.09, 3.11, 3.14, 3.16, 3.16]