

APPENDIX A: RF EXPOSURE TEST PLOTS

Plot A-1 Verification Test Data

cDASY6 Module WPT Measurement Report

Device under test

Info:
85kHz Verification

Serial number:
1011

Scenario:
85kHz Verification

Tool info

DASY software version:
cDASY6 Module WPT 2.6.0.5002

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000210, 2024/06/28

Software version:
2.0.63, backend: 2.2.22

Scan info

Center location:
x: -24.38 mm, y: -113.91 mm, z: 36.26 mm

Dimensions:
x: 608.0 mm, y: 609.0 mm, z: 36.6 mm

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

Completed on:
2024/11/01 14:17:56

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 131.92 A/m
x: 11.91 A/m, y: 122.24 A/m, z: 48.15 A/m

Maximum H-field location relative to DUT:
x: 11.00 mm, y: -165.00 mm, z: 8.50 mm

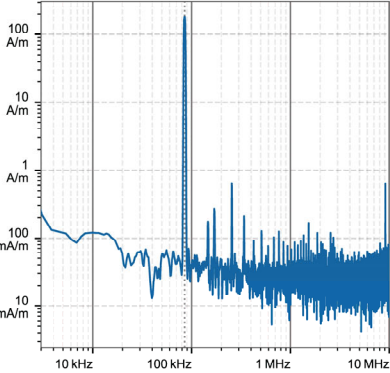
Maximum E-field [RMS]:
MAGNITUDE: 213.25 V/m
x: 13.76 V/m, y: 8.95 V/m, z: 212.62 V/m

Maximum E-field location relative to DUT:
x: 88.00 mm, y: 146.67 mm, z: 0.00 m

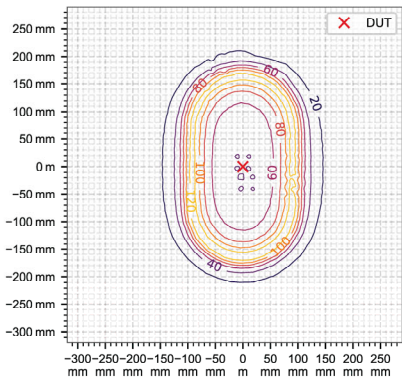
Distance to -20.0 dB boundary:
58.67 mm

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

H-field magnitude [RMS] at maximum location



H-field magnitude [RMS] at lowest plane



Incident fields and induced fields in the homogeneous phantom at the peak frequency (f = 85.00 kHz, $\sigma = 0.750$ S/m, tissue density = 1,000 kg/m³)

Distance [mm]	Peak incident fields [<i>rms</i>]		Peak <i>E</i> _{ind} [V/m, <i>rms</i>]			Peak <i>J</i> _{ind} [A/m ² , <i>rms</i>]	psSAR [mW/kg]		H-field extent	Sign	Vector potential	Warnings Boundary effect
	<i>H</i> _{inc} [A/m]	<i>E</i> _{inc} [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius [mm]			
0.00	201	213	3.22	3.25	3.26	2.25	5.91	4.35	181	1%	91%	25%
2.00	184	195	3.02	3.05	3.06	2.12	5.27	3.93	183	1%	91%	23%

Compliance evaluation (Field values at the peak frequency) (f=85.00 kHz, total field evaluation)

Distance [mm]	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]	
	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pJ _{ind} [A/m ²] [mW/kg]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]	pH _{inc} [A/m]	pE _{inc} [V/m]	pE _{ind} [V/m]	psSAR [mW/kg]
0.00	201	213	3.22	4.35	201	213	2.25	4.35	201	213	3.26	4.35	201	213	N/A	5.91	201	213	3.26	5.91
2.00	184	195	3.03	3.93	184	195	2.12	3.93	184	195	3.07	3.93	184	195	N/A	5.27	184	195	3.06	5.27

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

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
0.00	9.59	N/A	6.34	N/A	0.28	N/A	40.3	5.18	13.3	N/A	1.24	N/A	0.86	N/A	0.18	N/A	2.24	3.61	N/A	N/A
2.00	8.77	N/A	5.79	N/A	0.26	N/A	36.8	4.74	12.5	N/A	1.13	N/A	0.78	N/A	0.17	N/A	2.05	3.3	N/A	N/A

FCC ID: A3LSMS938JPN		WPT RF EXPOSURE EVALUATION REPORT	Reviewed by: Technical Manager
Test Dates: 10/14/2024 – 11/1/2024	Apparatus/Device: Mobile Handset		APPENDIX A: Page 1 of 2

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Plot A-2 Worst Case Test Data

cDASY6 Module WPT Measurement Report

Device under test

Info:
A3LSMS938JPN

Serial number:
1442M

Scenario:
Ping Signal Back Side

Tool info

DASY software version:
cDASY6 Module WPT 2.6.0.5002

Probe model, serial no. and configuration date:
MAGPy-8H3D+E3Dv2, WP000210, 2024/06/28

Software version:
2.0.63, backend: 2.2.22

Scan info

Center location:
x: 5.78 mm, y: -183.03 mm, z: 11.52 mm

Dimensions:
x: 168.6 mm, y: 256.6 mm, z: 36.7 mm

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

Completed on:
2024/10/30 12:22:29

Measurement results

Maximum H-field [RMS]:
MAGNITUDE: 246.29 A/m
x: 55.18 A/m, y: 472.78 mA/m, z: 240.03 A/m

Maximum H-field location relative to DUT:
x: -18.33 mm, y: 3.67 mm, z: 8.50 mm

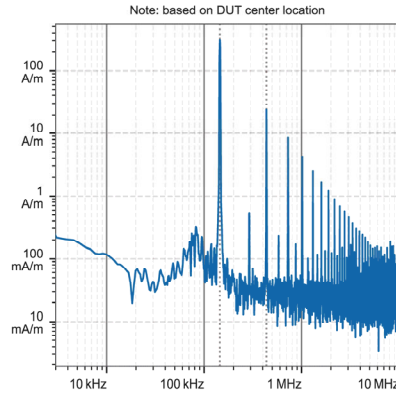
Maximum E-field [RMS]:
MAGNITUDE: 49.17 V/m
x: 7.71 V/m, y: 3.64 V/m, z: 48.42 V/m

Maximum E-field location relative to DUT:
x: -36.67 mm, y: 0.00 m, z: 0.00 m

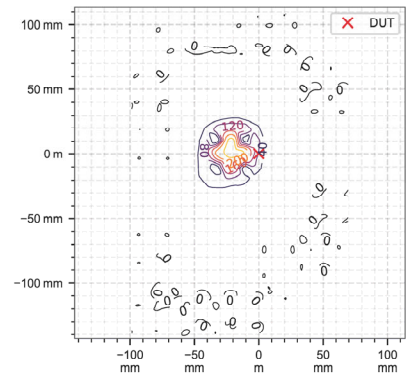
Distance to -20 dB boundary:
10.37 mm

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

H-field magnitude [RMS] at maximum location



H-field magnitude [RMS] at lowest plane



Incident fields and induced fields in the homogeneous phantom at the peak frequency (f = 145.67 kHz, $\sigma = 0.750$ 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		Warnings	
	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	613	49.2	2.05	2.13	2.10	1.23	1.39	0.552	29.0	7%	34%	19%	
2.00	525	45.3	1.72	1.80	1.77	1.00	0.927	0.37	28.3	7%	34%	19%	

Compliance evaluation (Field values at the peak frequency) (f=145.67 kHz, total field evaluation)

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]
	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
	[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	613	49.2	2.05	0.552	613	49.2	1.23	0.552	613	49.2	2.10	0.552	613	49.2	1.39	0.552	613	49.2	2.13	1.39
2.00	525	45.3	1.72	0.37	525	45.3	1.01	0.37	525	45.3	1.77	0.37	525	45.3	N/A	0.927	525	45.3	1.80	0.927

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

Distance [mm]	ICNIRP 2010/2020				ICNIRP 1998				IEEE 2019				FCC				HC Code 6			
	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR	RL	BR	RL	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	N/A	N/A	NS	TH	NS	TH
0.00	31.5	19.2	0.67	0.02	0.11	<0.01	129.0	0.64	4.54	<0.01	4.06	2.59	0.09	0.04	0.07	<0.01	378.0	0.09	N/A	<0.01
2.00	26.9	16.5	0.61	0.02	0.09	<0.01	111.0	0.59	3.72	<0.01	3.47	2.22	0.08	0.03	0.06	<0.01	324.0	0.08	N/A	<0.01

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