

APPENDIX A: RF EXPOSURE TEST PLOTS

Plot A-1 Verification Test Data

cDASY6 Module WPT Measurement Report

Device under test	Tool info	Scan info
Info: 85kHz Verification	DASY software version: cDASY6 Module WPT 2.6.0.5002	Center location: x: -24.38 mm, y: -113.91 mm, z: 36.26 mm
Serial number: 1011	Probe model, serial no. and configuration date: MAGPy-8H3D+E3Dv2, WP000210, 2024/06/28	Dimensions: x: 608.0 mm, y: 609.0 mm, z: 36.6 mm
Scenario: 85kHz Verification	Software version: 2.0.63, backend: 2.2.22	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

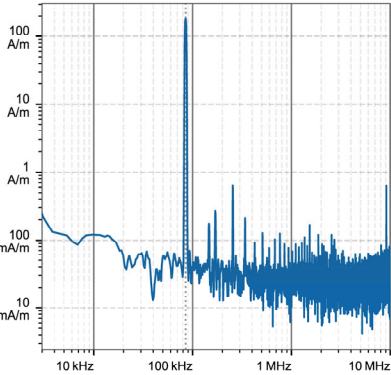
Maximum E-field [RMS]:
MAGNITUDE: 213.25 V/m
x: 13.76 V/m, y: 8.95 V/m, z: 212.62 V/m

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

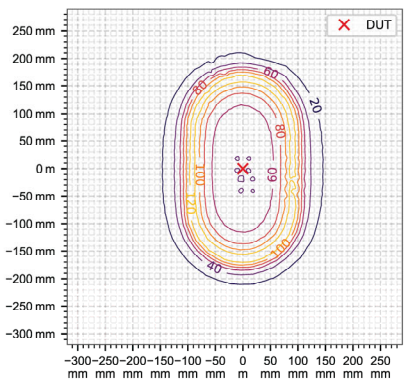
Distance to -20.0 dB boundary:
58.67 mm

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]	RL [RMS]	BR [RMS]	RL [RMS]	BR [RMS]	ERL [RMS]	DRL [RMS]	MPE [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	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
	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH	NS	TH
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: A3LSMS938B		WPT RF EXPOSURE EVALUATION REPORT	Reviewed by: Quality 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:
A3LSMS938B

Serial number:
0830M

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

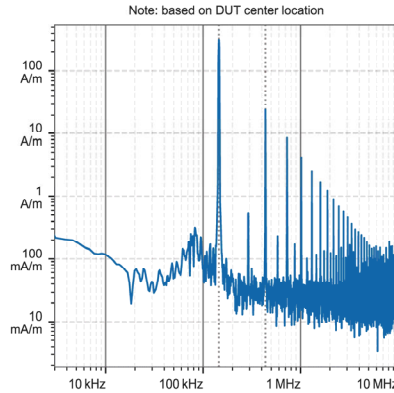
Maximum E-field [RMS]:
MAGNITUDE: 49.17 V/m
x: 7.71 V/m, y: 3.64 V/m, z: 48.42 V/m

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

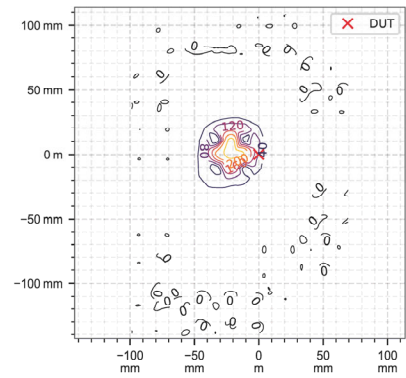
Distance to -20 dB boundary:
10.37 mm

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			
	$P H_{inc}$	$P E_{inc}$	$P E_{ind}$	psSAR	$P H_{inc}$	$P E_{inc}$	$P J_{ind}$	psSAR	$P H_{inc}$	$P E_{inc}$	$P E_{ind}$	psSAR	$P H_{inc}$	$P E_{inc}$	$P E_{ind}$	psSAR	$P H_{inc}$	$P E_{inc}$	$P E_{ind}$	psSAR
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	N/A	1.39	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		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			N/A	N/A	NS	TH	NS	TH	NS	TH	NS	TH	N/A	N/A	N/A	N/A	NS	TH	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	7.35	129.0	0.67	0.22	0.12	<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	6.29	111.0	0.61	0.20	0.10	<0.01				

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