

# 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

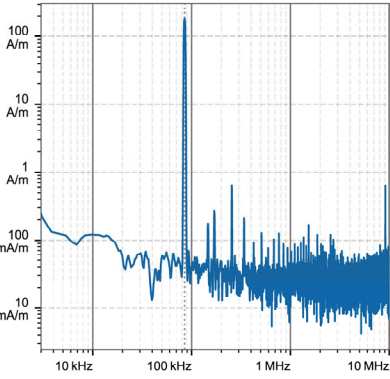
Maximum E-field [RMS]:  
MAGNITUDE: 213.25 V/m  
x: 13.76 V/m, y: 8.95 V/m, z: 212.62 V/m

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

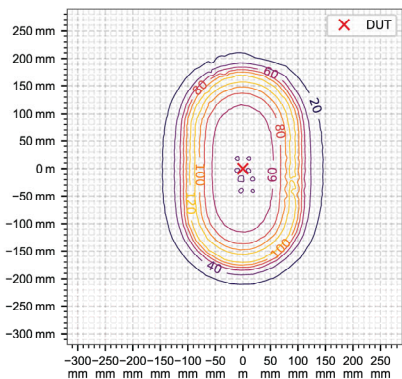
Distance to -20.0 dB boundary:  
58.67 mm

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/m<sup>3</sup>)


Distance [mm]	Peak incident fields [ <i>RMS</i> ]		Peak <i>E</i> <sub>ind</sub> [V/m, <i>RMS</i> ]			Peak <i>J</i> <sub>ind</sub> [A/m <sup>2</sup> , <i>RMS</i> ]	psSAR [mW/kg]		H-field extent -20 dB radius [mm]	Sign	Vector potential	Warnings Boundary effect
	<i>H</i> <sub>inc</sub> [A/m]	<i>E</i> <sub>inc</sub> [V/m]	Cube avg.	Local	Line avg.	Surface avg.	1g avg.	10g avg.				
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 <sub>inc</sub> [A/m]	pE <sub>inc</sub> [V/m]	pE <sub>ind</sub> [V/m]	psSAR [mW/kg]	pH <sub>inc</sub> [A/m]	pE <sub>inc</sub> [V/m]	pJ <sub>ind</sub> [A/m <sup>2</sup> ]	psSAR [mW/kg]	pH <sub>inc</sub> [A/m]	pE <sub>inc</sub> [V/m]	pE <sub>ind</sub> [V/m]	psSAR [mW/kg]	pH <sub>inc</sub> [A/m]	pE <sub>inc</sub> [V/m]	pE <sub>ind</sub> [V/m]	psSAR [mW/kg]	pH <sub>inc</sub> [A/m]	pE <sub>inc</sub> [V/m]	pE <sub>ind</sub> [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 <sub>inc</sub>	pE <sub>inc</sub>	pE <sub>ind</sub>	psSAR	pH <sub>inc</sub>	pE <sub>inc</sub>	pJ <sub>ind</sub>	psSAR	pH <sub>inc</sub>	pE <sub>inc</sub>	pE <sub>ind</sub>	psSAR	pH <sub>inc</sub>	pE <sub>inc</sub>	pE <sub>ind</sub>	psSAR	pH <sub>inc</sub>	pE <sub>inc</sub>	pE <sub>ind</sub>	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: A3LSMS938U		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:  
A3LSMS938U

Serial number:  
1125M

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

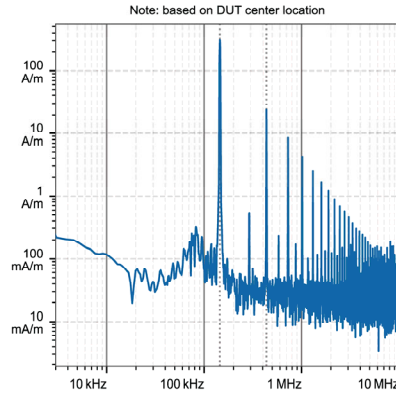
Maximum E-field [RMS]:  
MAGNITUDE: 49.17 V/m  
x: 7.71 V/m, y: 3.64 V/m, z: 48.42 V/m

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

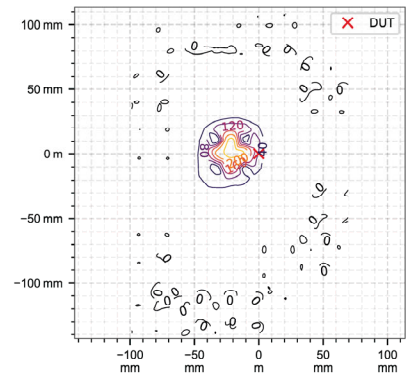
Distance to -20 dB boundary:  
10.37 mm

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/m<sup>3</sup>)


Distance [mm]	Peak incident fields [RMS]		Peak E <sub>ind</sub> [V/m, RMS]			Peak J <sub>ind</sub> [A/m <sup>2</sup> , RMS]		psSAR [mW/kg]		H-field extent		Warnings	
	H <sub>inc</sub> [A/m]	E <sub>inc</sub> [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]
	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Jind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR
	[A/m]	[V/m]	[V/m]	[mW/kg]	[A/m]	[V/m]	[A/m <sup>2</sup> ]	[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
	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Jind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	psSAR	P <sub>Hinc</sub>	P <sub>Einc</sub>	P <sub>Eind</sub>	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

FCC ID: A3LSMS938U		WPT RF EXPOSURE EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 10/14/2024 – 11/1/2024	Apparatus/Device: Mobile Handset		APPENDIX A: Page 2 of 2

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