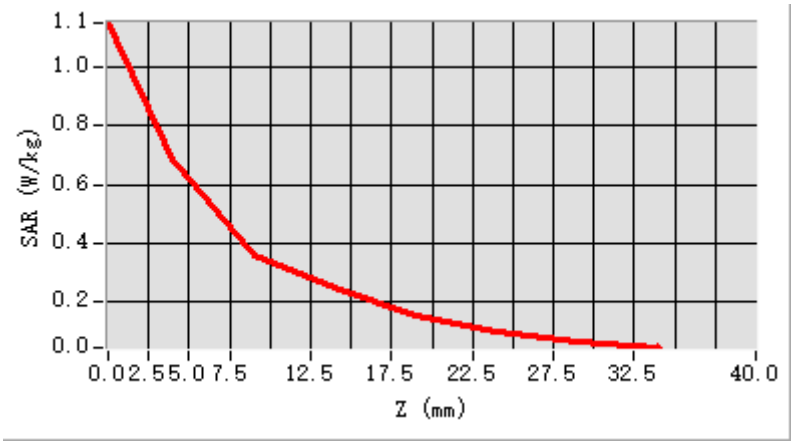
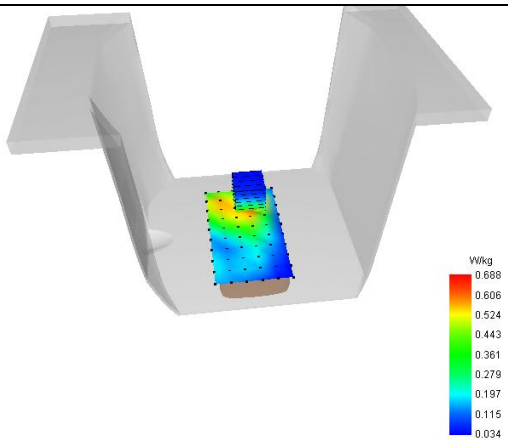
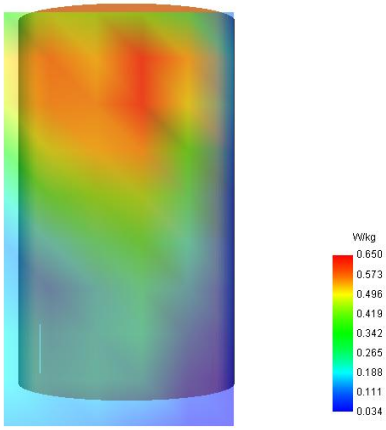


F. 3D Image

3D screen shot	Hot spot position
	

7# SAR Measurement at Band 4 (1700) (Cheek, Left)
Date of measurement: 16/2/2025

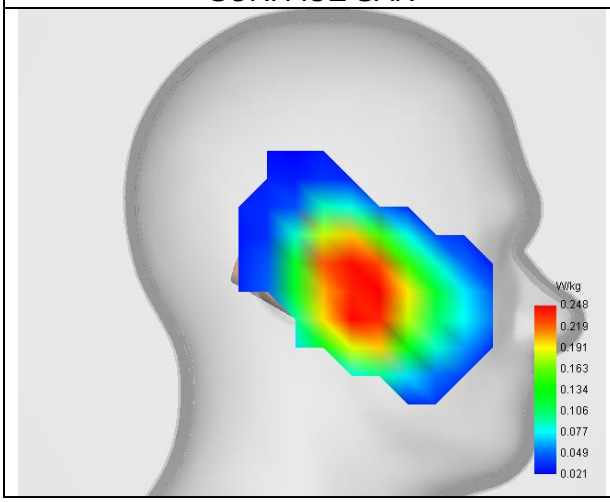
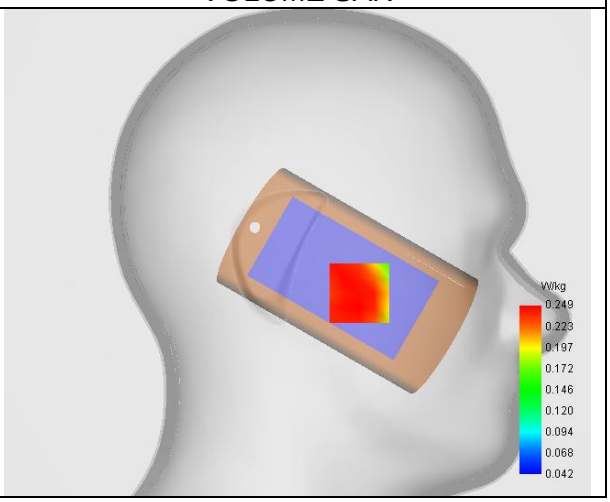
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band 4 (1700)
Channels/Frequency	Middle (1413)/ frequency 1732.600 Mhz
Signal	WCDMA
Mode	Release 99

B. Permitivity

Middle TX Frequency (MHz)	1732.600
Relative permitivity (real part)	39.34
Relative permitivity (imaginary part)	13.62
Conductivity (S/m)	1.31

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

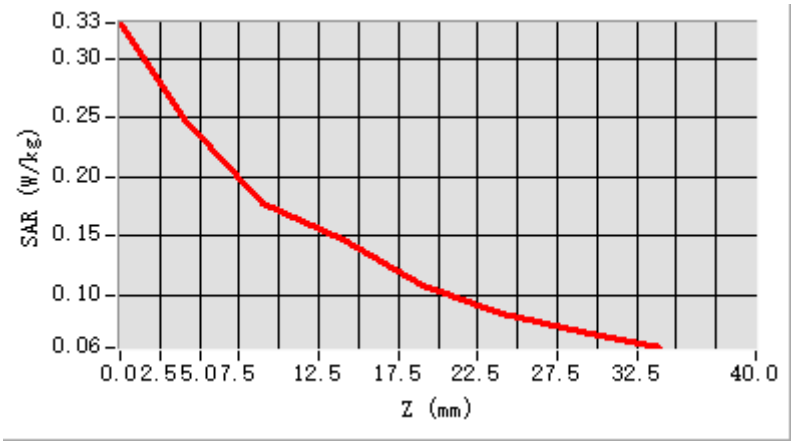
Maximum location: X=-33.00, Y=-22.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

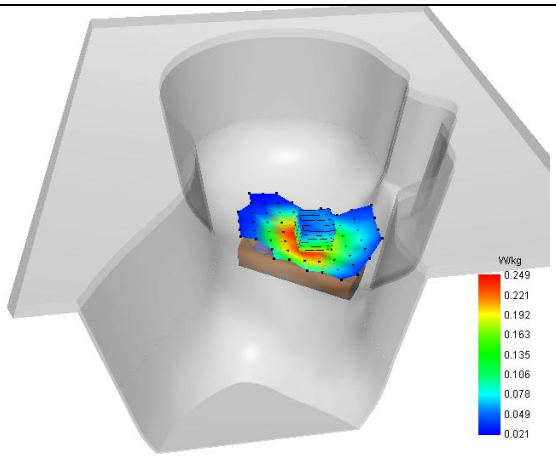
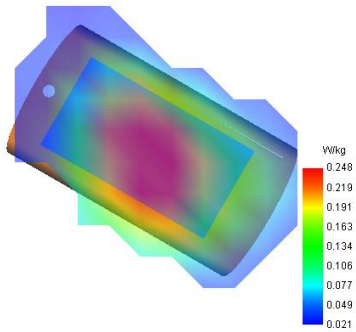
SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.240
Variation (%)	0.96
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	74.61

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.330	0.249	0.178	0.148	0.108	0.085	0.070



F. 3D Image

3D screen shot	Hot spot position
	

8# SAR Measurement at Band 4 (1700) (Body, Validation Plane)
Date of measurement: 16/2/2025

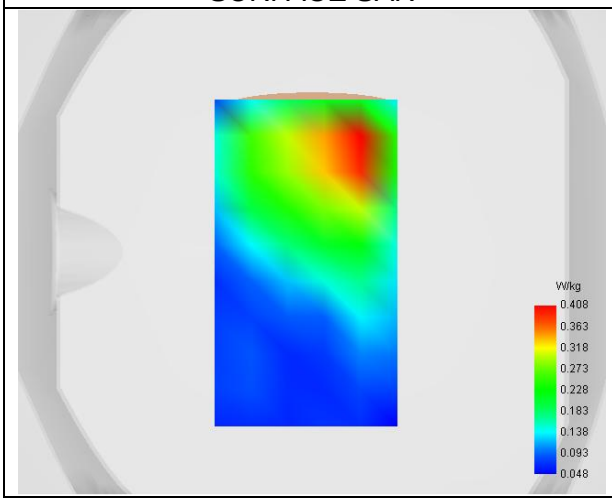
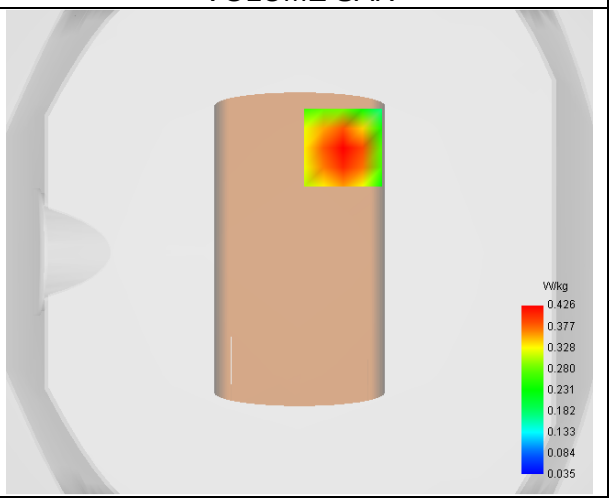
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels/Frequency	Middle (1413)/ frequency 1732.600 Mhz
Signal	WCDMA
Mode	Release 99

B. Permitivity

Middle TX Frequency (MHz)	1732.600
Relative permitivity (real part)	39.34
Relative permitivity (imaginary part)	13.62
Conductivity (S/m)	1.31

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

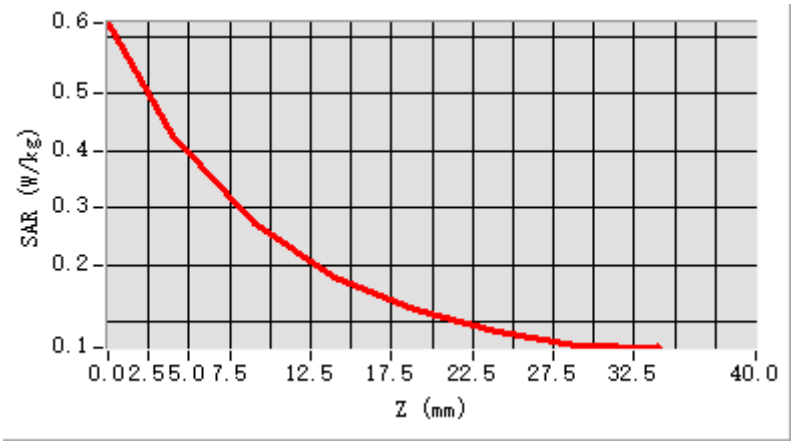
Maximum location: X=18.00, Y=43.00 ; SAR Peak: 0.62 W/kg

D. SAR 1g & 10g

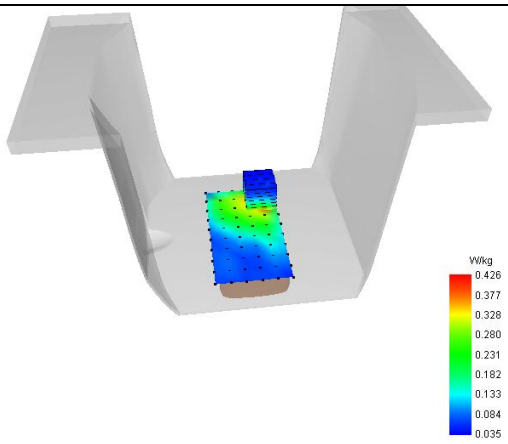
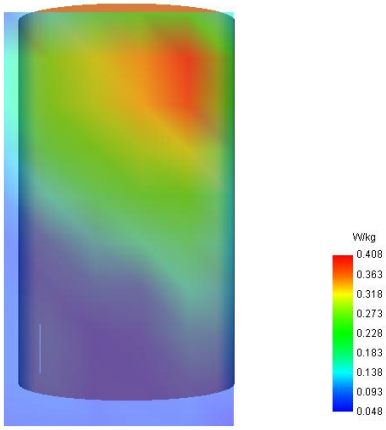
SAR 10g (W/Kg)	0.248
SAR 1g (W/Kg)	0.411
Variation (%)	-0.31
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	63.58

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.624	0.426	0.271	0.178	0.122	0.082	0.057



F. 3D Image

3D screen shot	Hot spot position
	

9# SAR Measurement at Band 5 (850) (Cheek, Left)
Date of measurement: 15/2/2025

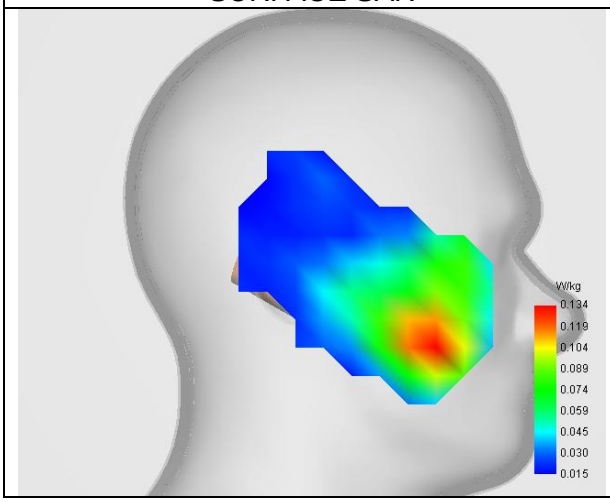
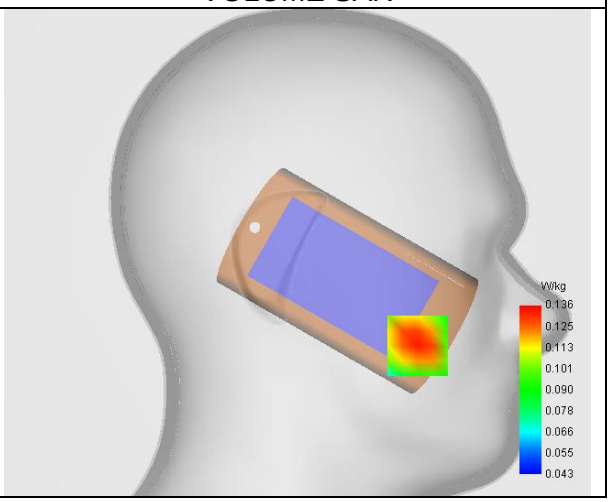
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.34
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band 5 (850)
Channels/Frequency	Middle (4182)/ frequency 836.400 Mhz
Signal	WCDMA
Mode	Release 99

B. Permitivity

Middle TX Frequency (MHz)	836.400
Relative permitivity (real part)	41.70
Relative permitivity (imaginary part)	19.61
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

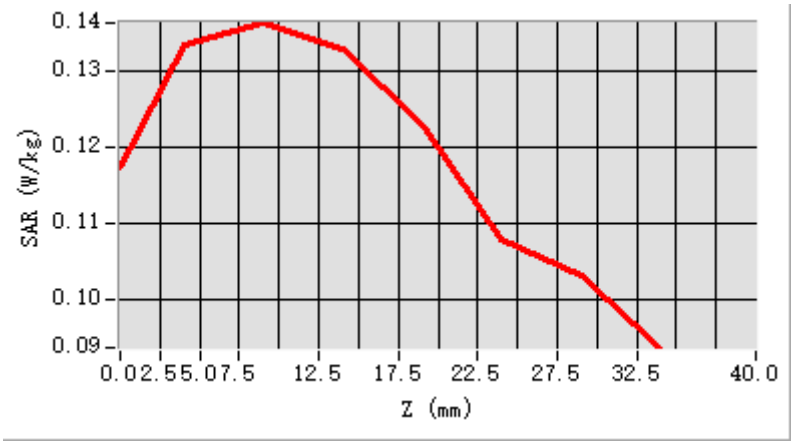
Maximum location: X=-64.00, Y=-50.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

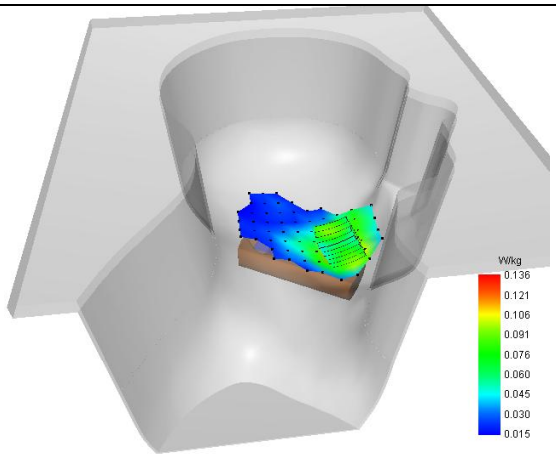
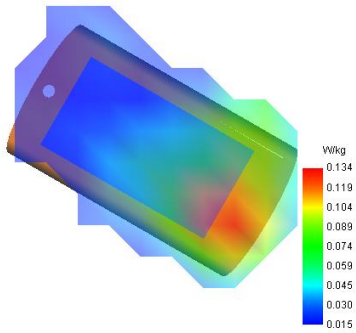
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.132
Variation (%)	-0.12
Horizontal validation criteria: minimum distance (mm)	11.36
Vertical validation criteria: SAR ratio M2/M1 (%)	102.26

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.118	0.133	0.136	0.133	0.123	0.108	0.103



F. 3D Image

3D screen shot	Hot spot position
	

10# SAR Measurement at Band 5 (850) (Body, Validation Plane)
Date of measurement: 15/2/2025

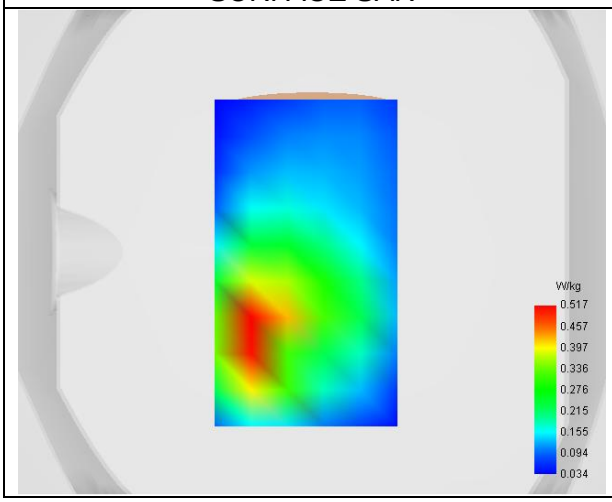
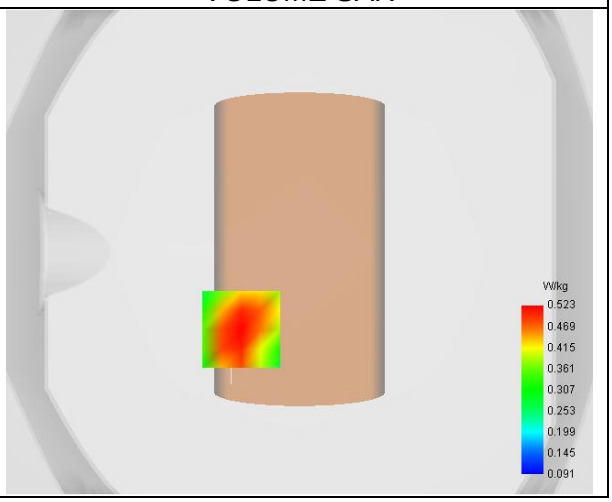
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.34
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels/Frequency	Middle (4182)/ frequency 836.400 Mhz
Signal	WCDMA
Mode	Release 99

B. Permitivity

Middle TX Frequency (MHz)	836.400
Relative permitivity (real part)	41.70
Relative permitivity (imaginary part)	19.61
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

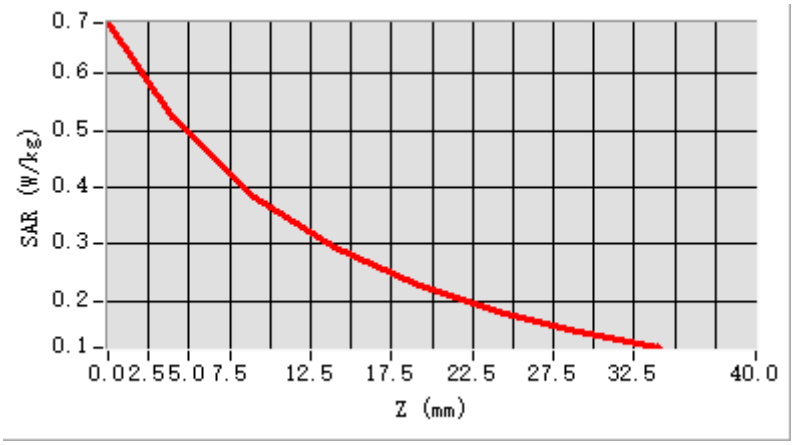
Maximum location: X=-24.00, Y=-32.00 ; SAR Peak: 0.70 W/kg

D. SAR 1g & 10g

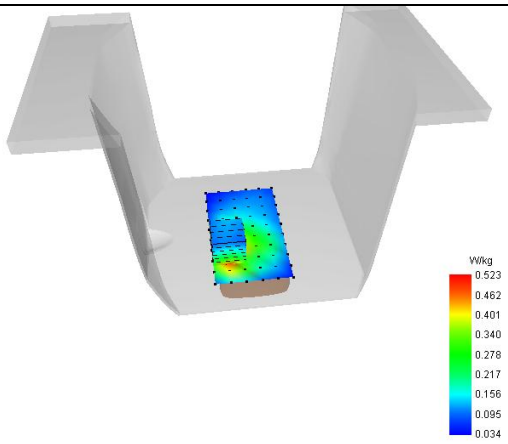
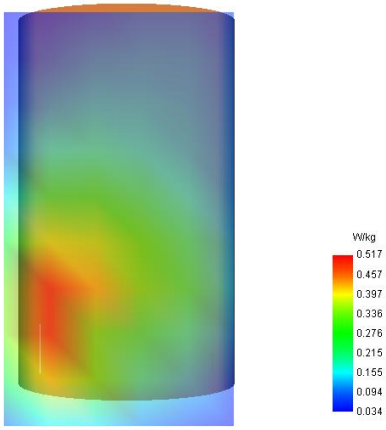
SAR 10g (W/Kg)	0.343
SAR 1g (W/Kg)	0.512
Variation (%)	-1.18
Horizontal validation criteria: minimum distance (mm)	11.36
Vertical validation criteria: SAR ratio M2/M1 (%)	72.87

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.688	0.523	0.381	0.296	0.230	0.182	0.147



F. 3D Image

3D screen shot	Hot spot position
	

11# SAR Measurement at U-NII-1 (Cheek, Left)
Date of measurement: 9/2/2025

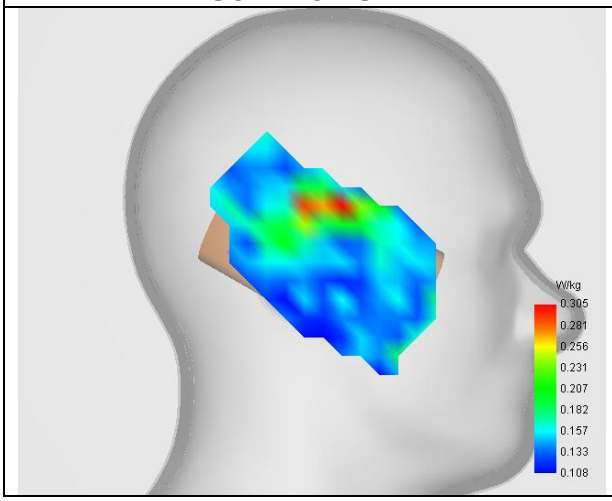
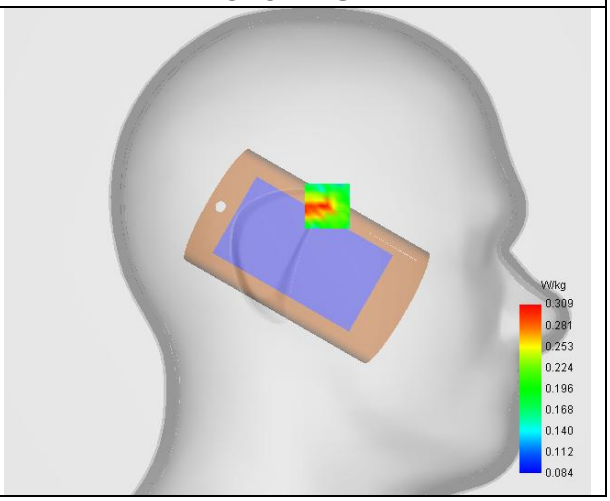
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	1.90
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	9x9x16,dx=3mm dy=3mm dz=1.5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	U-NII-1
Channels/Frequency	Middle (157)/ frequency 5785.000 Mhz
Signal	IEEE 802.11 n

B. Permitivity

Middle TX Frequency (MHz)	5785.000
Relative permitivity (real part)	36.55
Relative permitivity (imaginary part)	16.05
Conductivity (S/m)	5.16

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

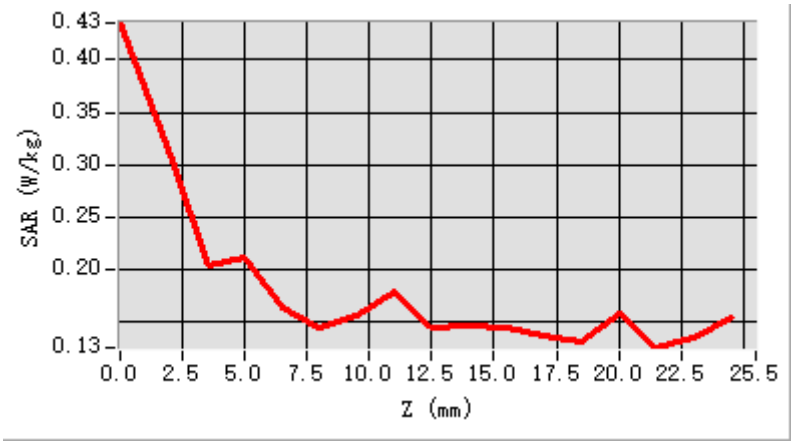
Maximum location: X=-16.00, Y=24.00 ; SAR Peak: 0.65 W/kg

D. SAR 1g & 10g

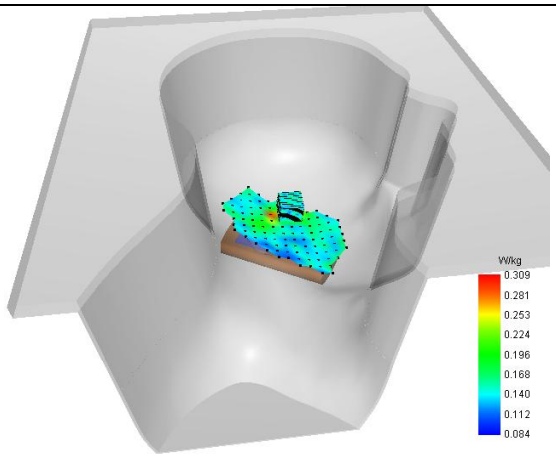
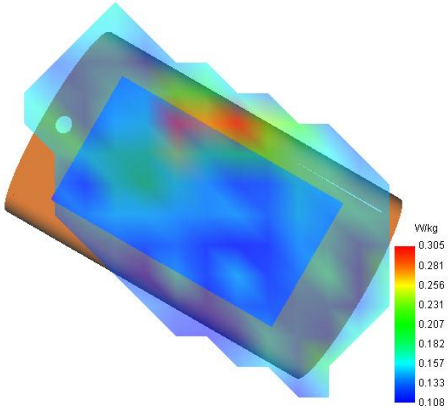
SAR 10g (W/Kg)	0.140
SAR 1g (W/Kg)	0.285
Variation (%)	0.30
Horizontal validation criteria: minimum distance (mm)	9.00
Vertical validation criteria: SAR ratio M2/M1 (%)	79.30

E. Z Axis Scan

Z (mm)	0.00	2.00	3.50	5.00	6.50	8.00	9.50	11.00	12.50	14.00	15.50	17.00	18.50	20.00	21.50	23.00
SAR (W/Kg)	0.435	0.309	0.204	0.213	0.165	0.145	0.157	0.179	0.145	0.147	0.145	0.138	0.131	0.159	0.126	0.135



F. 3D Image

3D screen shot	Hot spot position
	

12# SAR Measurement at U-NII-1 (Cheek, Left)
Date of measurement: 8/2/2025

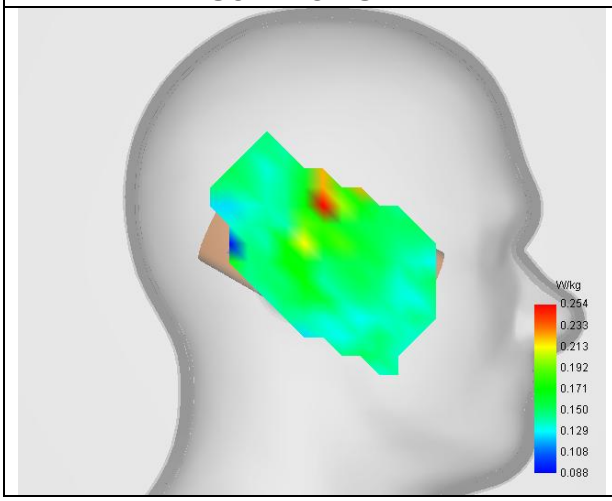
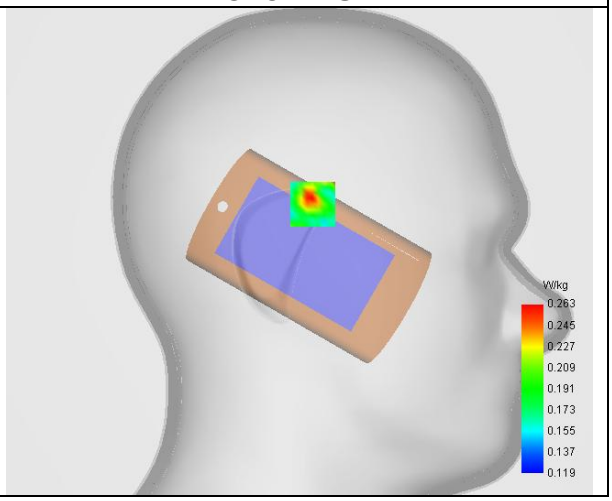
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	1.89
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	9x9x16,dx=3mm dy=3mm dz=1.5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	U-NII-1
Channels/Frequency	Middle (40)/ frequency 5200.000 Mhz
Signal	IEEE 802.11 a

B. Permitivity

Middle TX Frequency (MHz)	5200.000
Relative permitivity (real part)	37.54
Relative permitivity (imaginary part)	16.12
Conductivity (S/m)	4.66

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

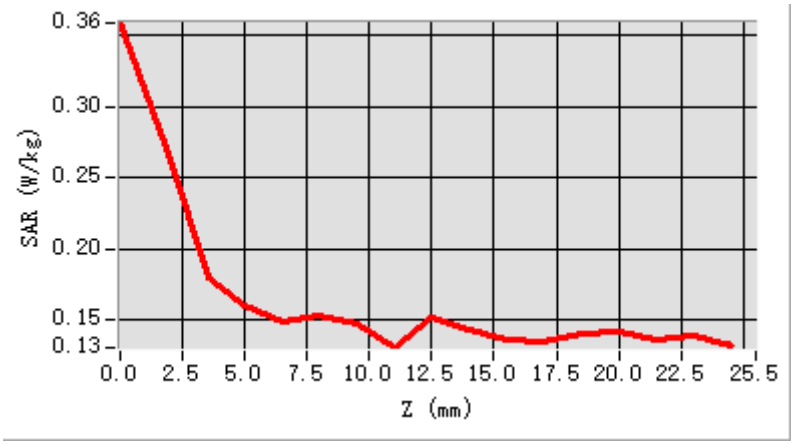
Maximum location: X=-7.00, Y=25.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

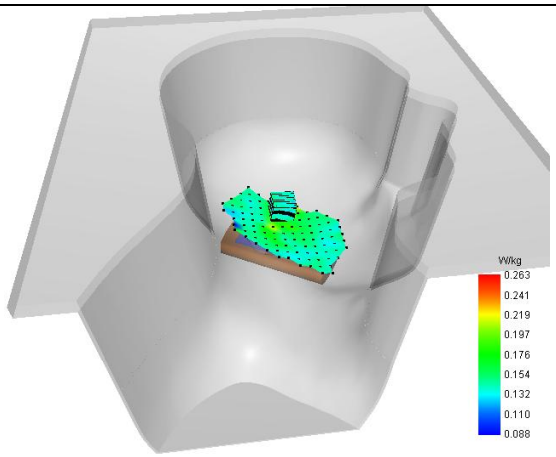
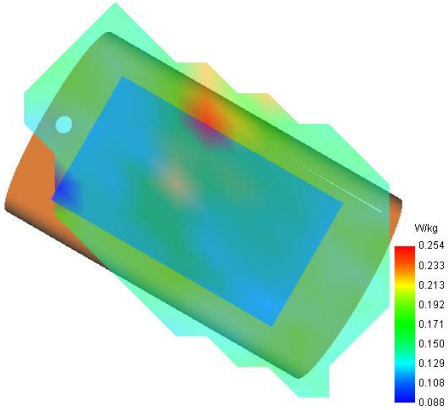
SAR 10g (W/Kg)	0.154
SAR 1g (W/Kg)	0.249
Variation (%)	0.52
Horizontal validation criteria: minimum distance (mm)	16.97
Vertical validation criteria: SAR ratio M2/M1 (%)	74.71

E. Z Axis Scan

Z (mm)	0.00	2.00	3.50	5.00	6.50	8.00	9.50	11.00	12.50	14.00	15.50	17.00	18.50	20.00	21.50	23.00
SAR (W/Kg)	0.358	0.263	0.180	0.161	0.150	0.153	0.148	0.131	0.153	0.143	0.136	0.135	0.141	0.143	0.137	0.139



F. 3D Image

3D screen shot	Hot spot position
	

13# SAR Measurement at U-NII-1 (Body, Validation Plane)
Date of measurement: 9/2/2025

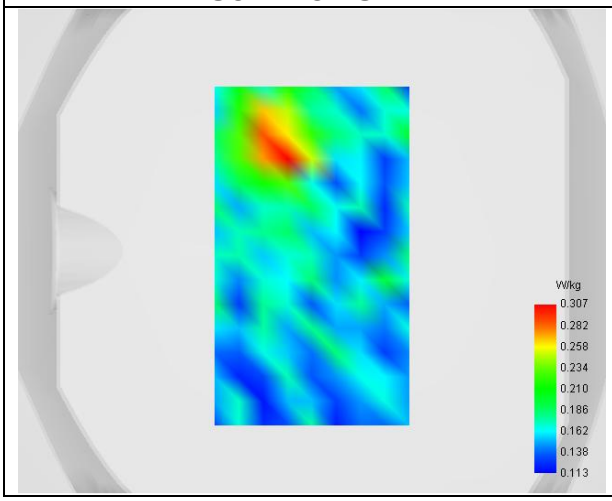
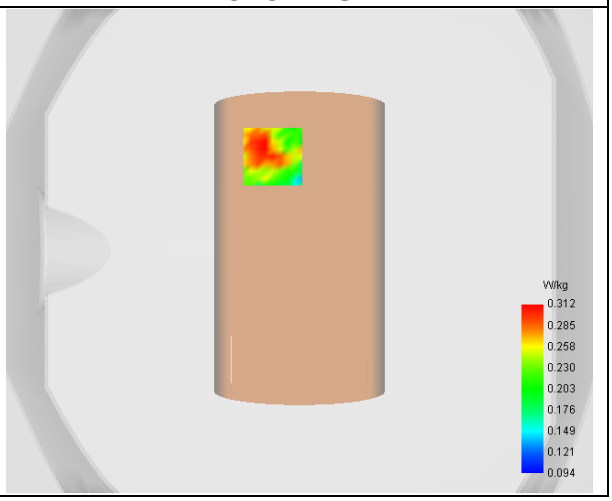
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	1.90
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	9x9x16,dx=3mm dy=3mm dz=1.5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Channels/Frequency	Middle (157)/ frequency 5785.000 Mhz
Signal	IEEE 802.11 n

B. Permitivity

Middle TX Frequency (MHz)	5785.000
Relative permitivity (real part)	36.55
Relative permitivity (imaginary part)	16.05
Conductivity (S/m)	5.16

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

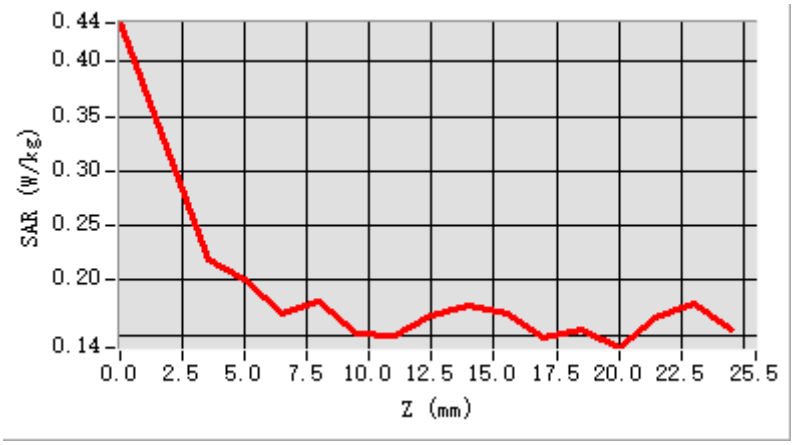
Maximum location: X=-11.00, Y=39.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

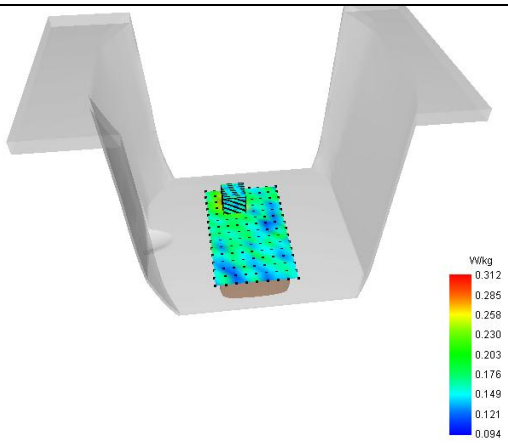
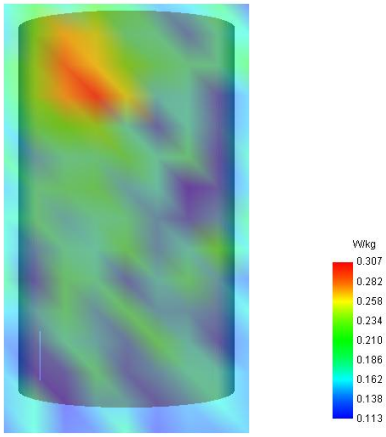
SAR 10g (W/Kg)	0.143
SAR 1g (W/Kg)	0.243
Variation (%)	1.93
Horizontal validation criteria: minimum distance (mm)	21.21
Vertical validation criteria: SAR ratio M2/M1 (%)	62.42

E. Z Axis Scan

Z (mm)	0.00	2.00	3.50	5.00	6.50	8.00	9.50	11.00	12.50	14.00	15.50	17.00	18.50	20.00	21.50	23.00
SAR (W/Kg)	0.436	0.312	0.220	0.200	0.170	0.181	0.151	0.150	0.167	0.177	0.169	0.147	0.154	0.138	0.166	0.178



F. 3D Image

3D screen shot	Hot spot position
	

14# SAR Measurement at U-NII-1 (Body, Validation Plane)
Date of measurement: 8/2/2025

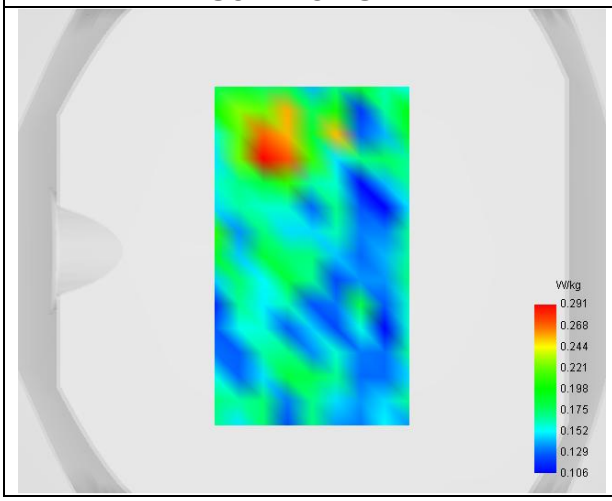
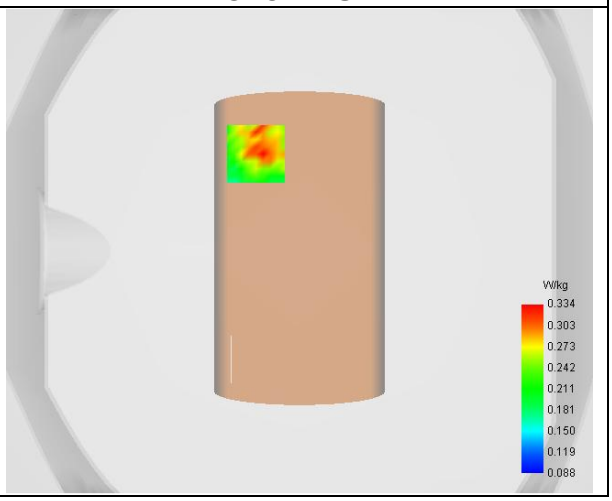
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	1.89
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	9x9x16,dx=3mm dy=3mm dz=1.5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	U-NII-1
Channels/Frequency	Middle (40)/ frequency 5200.000 Mhz
Signal	IEEE 802.11 a

B. Permitivity

Middle TX Frequency (MHz)	5200.000
Relative permitivity (real part)	37.54
Relative permitivity (imaginary part)	16.12
Conductivity (S/m)	4.66

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

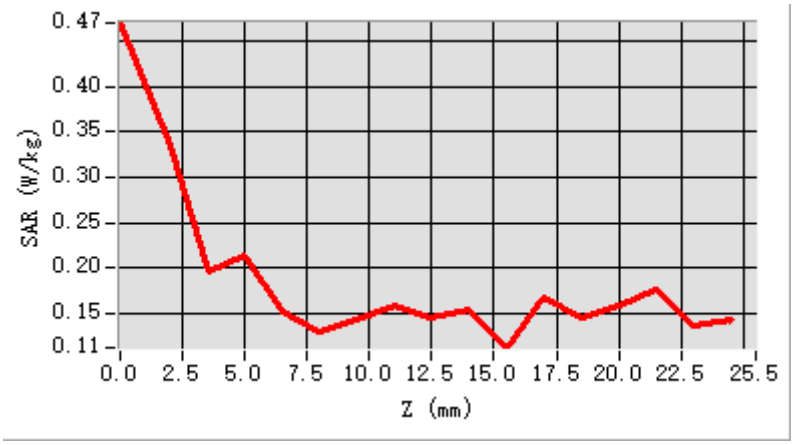
Maximum location: X=-18.00, Y=40.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

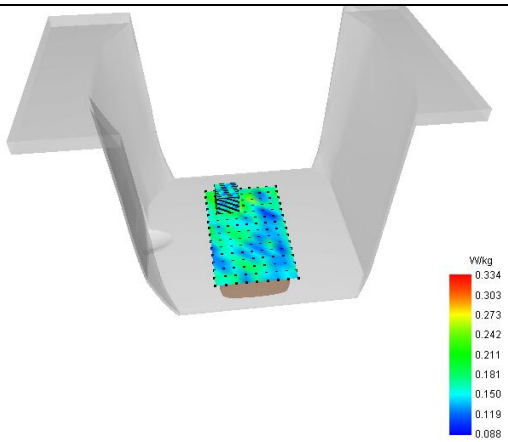
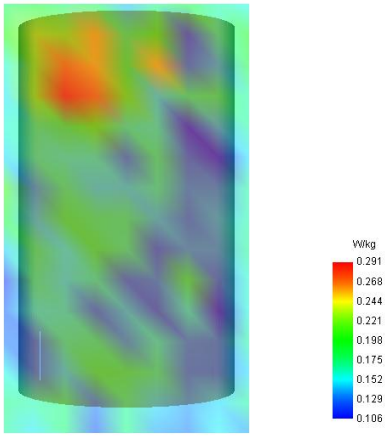
SAR 10g (W/Kg)	0.134
SAR 1g (W/Kg)	0.237
Variation (%)	3.05
Horizontal validation criteria: minimum distance (mm)	16.97
Vertical validation criteria: SAR ratio M2/M1 (%)	75.48

E. Z Axis Scan

Z (mm)	0.00	2.00	3.50	5.00	6.50	8.00	9.50	11.00	12.50	14.00	15.50	17.00	18.50	20.00	21.50	23.00
SAR (W/Kg)	0.470	0.334	0.196	0.214	0.151	0.129	0.142	0.159	0.144	0.154	0.112	0.168	0.146	0.157	0.176	0.137



F. 3D Image

3D screen shot	Hot spot position
	

15# SAR Measurement at ISM (Cheek, Left)
Date of measurement: 6/2/2025

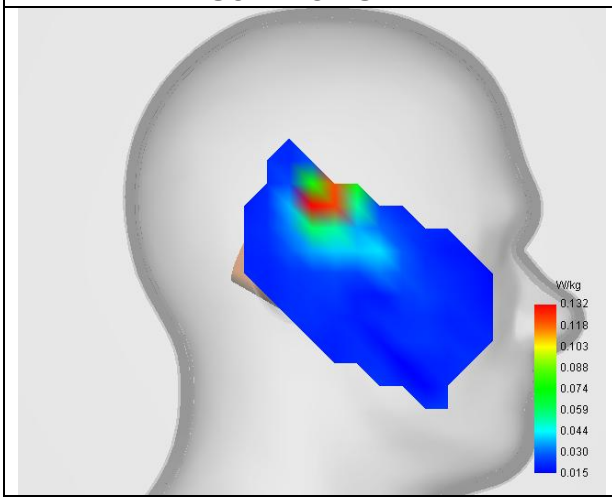
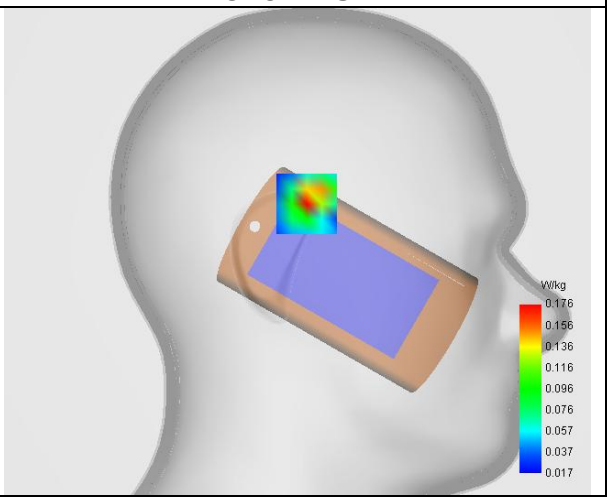
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.74
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	ISM
Channels/Frequency	Middle (6)/ frequency 2437.000 Mhz
Signal	IEEE 802.11 b

B. Permitivity

Middle TX Frequency (MHz)	2437.000
Relative permitivity (real part)	38.33
Relative permitivity (imaginary part)	12.99
Conductivity (S/m)	1.76

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

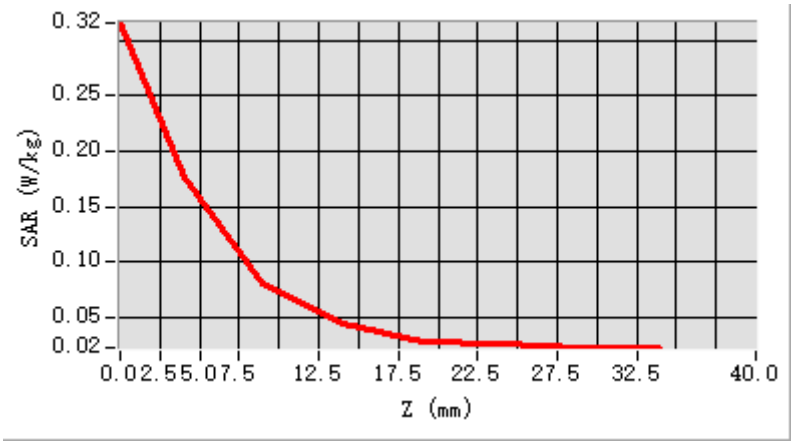
Maximum location: X=-5.00, Y=25.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

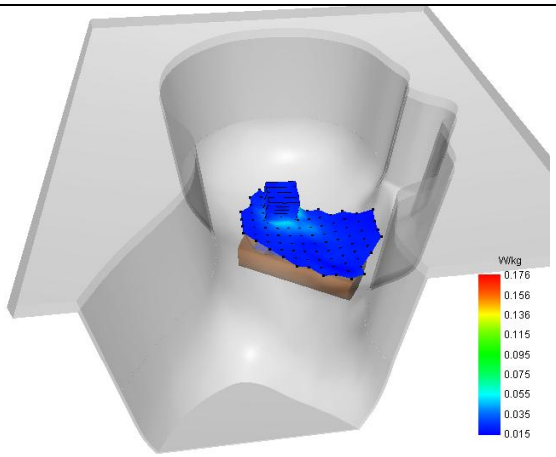
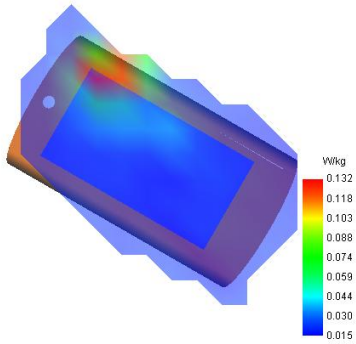
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.164
Variation (%)	1.29
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	46.19

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.315	0.176	0.081	0.044	0.029	0.027	0.023



F. 3D Image

3D screen shot	Hot spot position
	

16# SAR Measurement at ISM (Body, Validation Plane)
Date of measurement: 6/2/2025

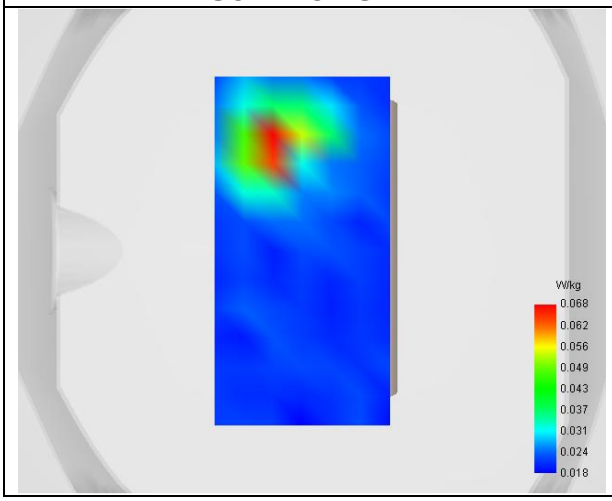
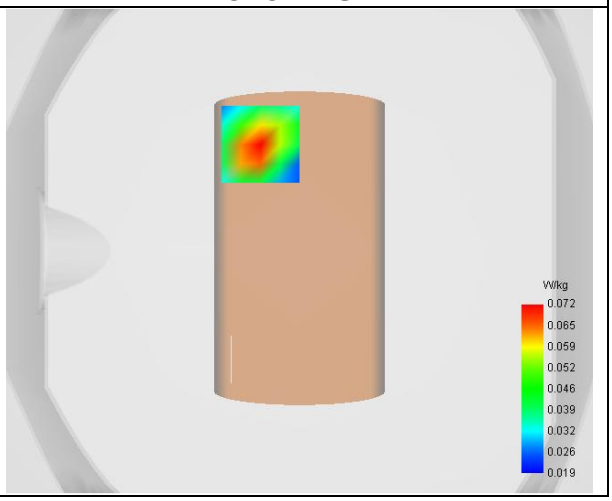
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.74
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels/Frequency	Middle (6)/ frequency 2437.000 Mhz
Signal	IEEE 802.11 b

B. Permitivity

Middle TX Frequency (MHz)	2437.000
Relative permitivity (real part)	38.33
Relative permitivity (imaginary part)	12.99
Conductivity (S/m)	1.76

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

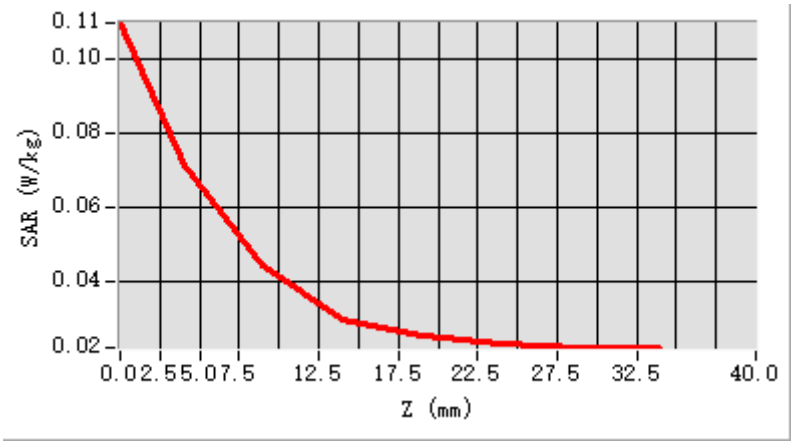
Maximum location: X=-16.00, Y=44.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

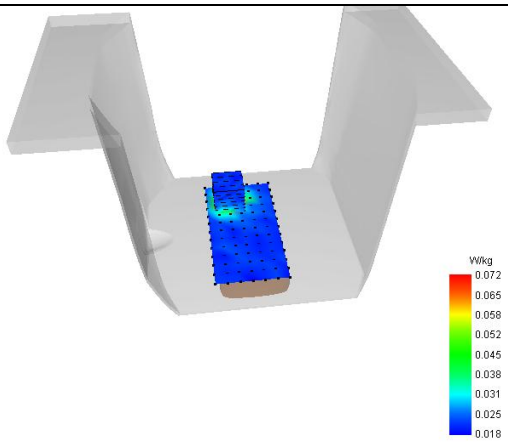
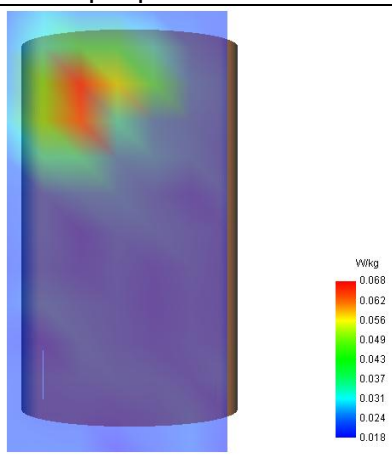
SAR 10g (W/Kg)	0.040
SAR 1g (W/Kg)	0.071
Variation (%)	0.01
Horizontal validation criteria: minimum distance (mm)	17.89
Vertical validation criteria: SAR ratio M2/M1 (%)	61.93

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.110	0.072	0.044	0.030	0.026	0.023	0.022



F. 3D Image

3D screen shot	Hot spot position
	

17# SAR Measurement at LTE band 2 (Cheek, Left)
Date of measurement: 17/2/2025

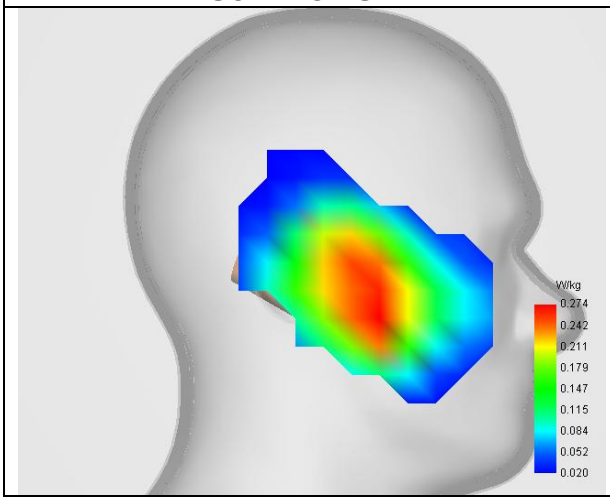
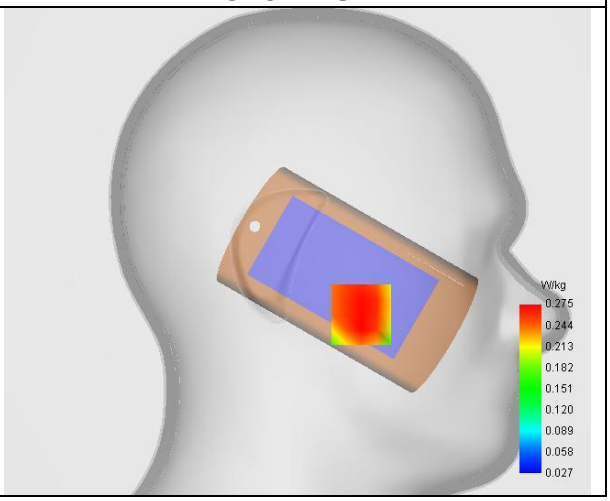
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.57
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 2
Channels/Frequency	Middle (18900)/ frequency 1880.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	1880.000
Relative permitivity (real part)	38.50
Relative permitivity (imaginary part)	13.78
Conductivity (S/m)	1.44

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

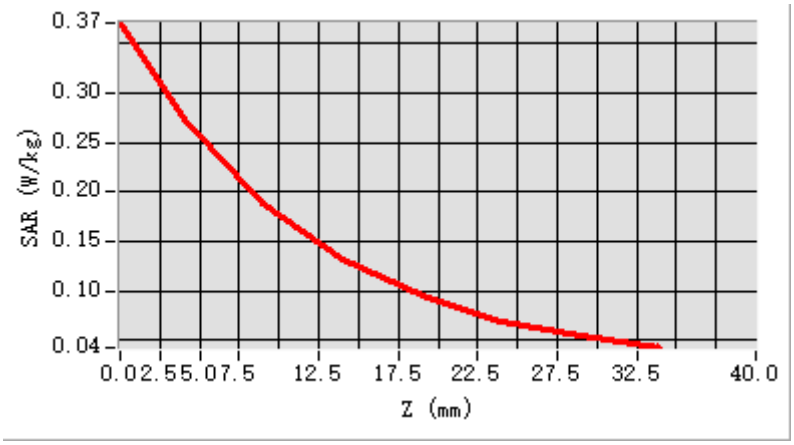
Maximum location: X=-34.00, Y=-34.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

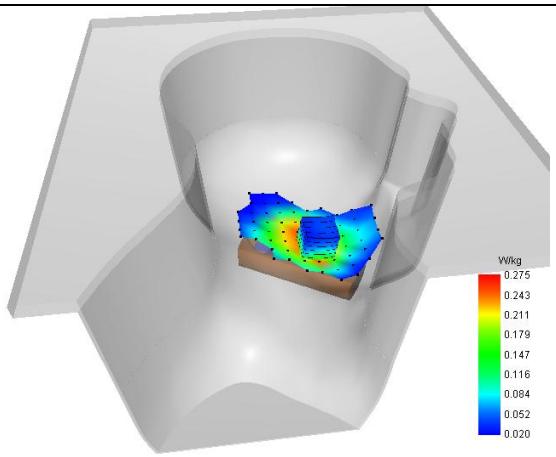
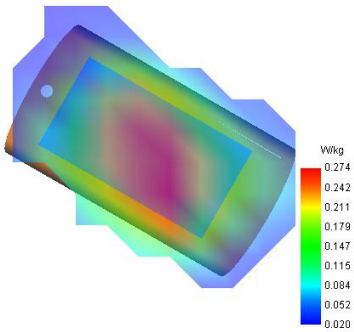
SAR 10g (W/Kg)	0.180
SAR 1g (W/Kg)	0.274
Variation (%)	-4.65
Horizontal validation criteria: minimum distance (mm)	17.89
Vertical validation criteria: SAR ratio M2/M1 (%)	68.24

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.371	0.275	0.188	0.131	0.095	0.070	0.055



F. 3D Image

3D screen shot	Hot spot position
	

18# SAR Measurement at LTE band 2 (Body, Validation Plane)
Date of measurement: 17/2/2025

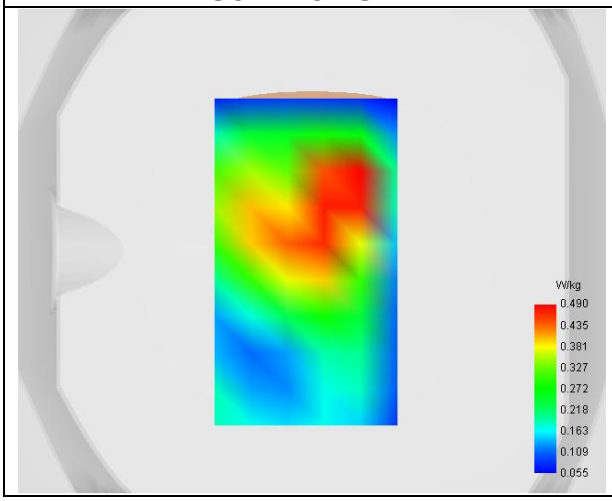
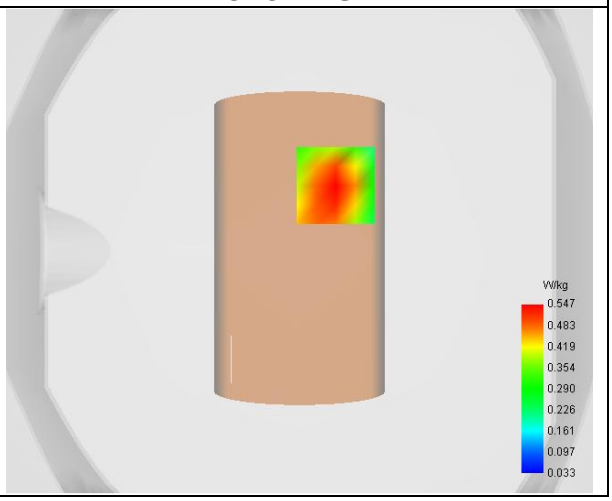
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.57
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels/Frequency	Middle (18900)/ frequency 1880.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	1880.000
Relative permitivity (real part)	38.50
Relative permitivity (imaginary part)	13.78
Conductivity (S/m)	1.44

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

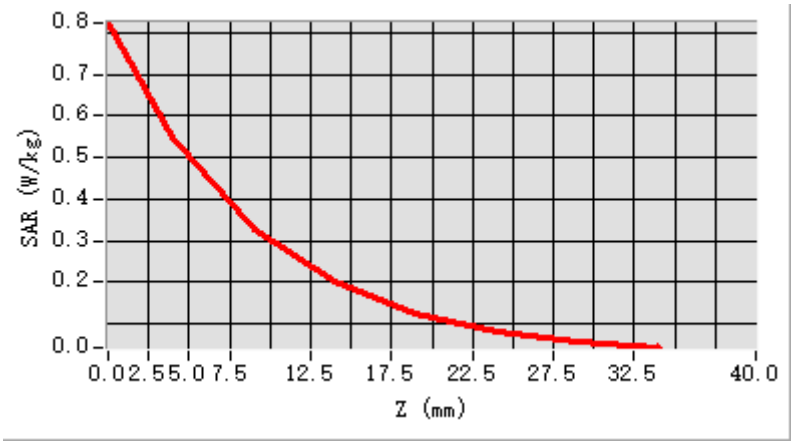
Maximum location: X=15.00, Y=27.00 ; SAR Peak: 0.82 W/kg

D. SAR 1g & 10g

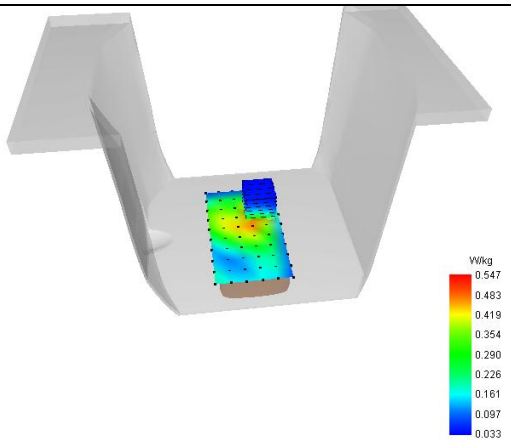
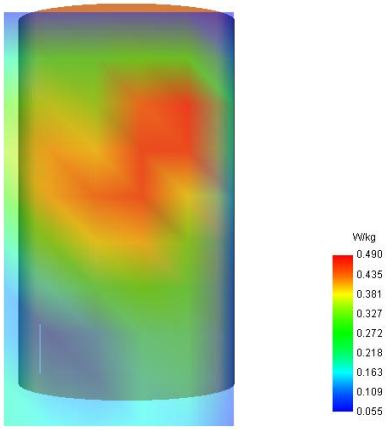
SAR 10g (W/Kg)	0.298
SAR 1g (W/Kg)	0.535
Variation (%)	0.14
Horizontal validation criteria: minimum distance (mm)	17.89
Vertical validation criteria: SAR ratio M2/M1 (%)	59.49

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.824	0.547	0.326	0.201	0.126	0.082	0.056



F. 3D Image

3D screen shot	Hot spot position
	

19# SAR Measurement at LTE band 4 (Cheek, Left)
Date of measurement: 16/2/2025

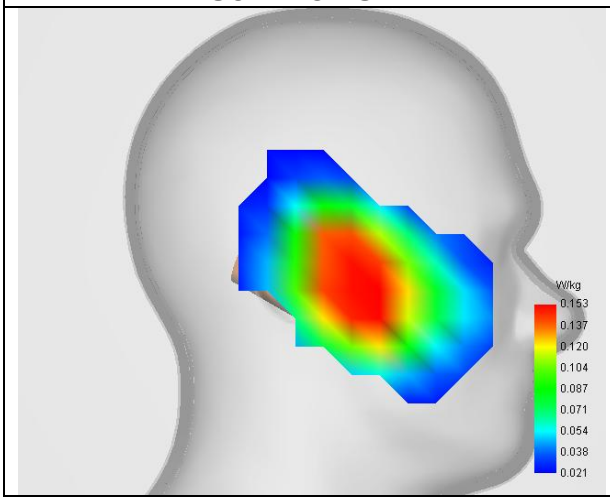
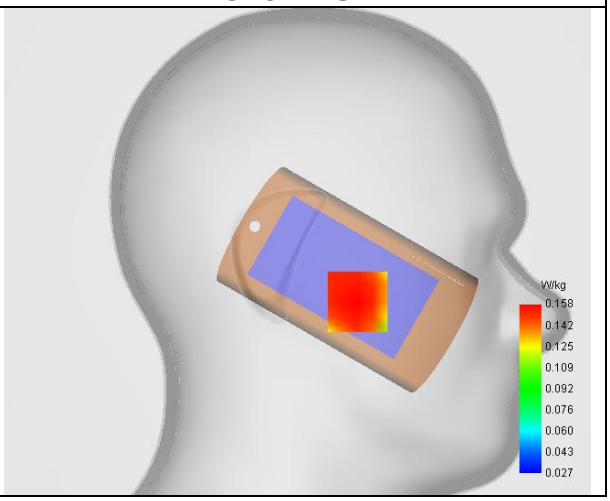
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 4
Channels/Frequency	Middle (20175)/ frequency 1732.500 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	1732.500
Relative permitivity (real part)	39.34
Relative permitivity (imaginary part)	13.62
Conductivity (S/m)	1.31

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

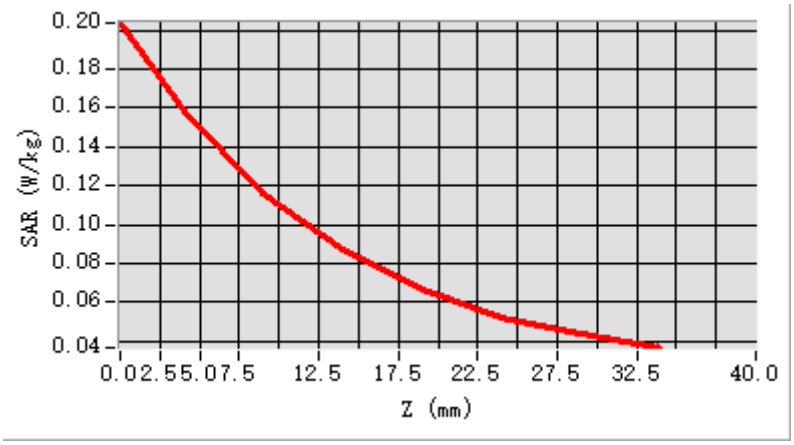
Maximum location: X=-32.00, Y=-27.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

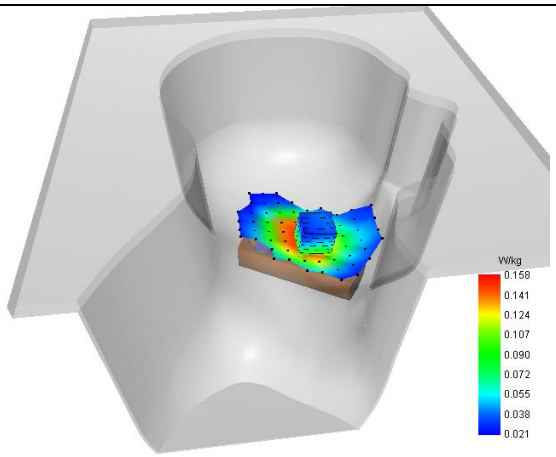
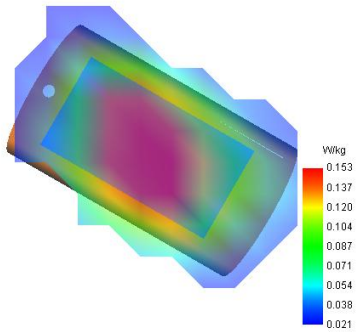
SAR 10g (W/Kg)	0.110
SAR 1g (W/Kg)	0.153
Variation (%)	0.59
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	73.18

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.204	0.158	0.116	0.087	0.066	0.052	0.043



F. 3D Image

3D screen shot	Hot spot position
	

20# SAR Measurement at LTE band 4 (Body, Validation Plane)
Date of measurement: 16/2/2025

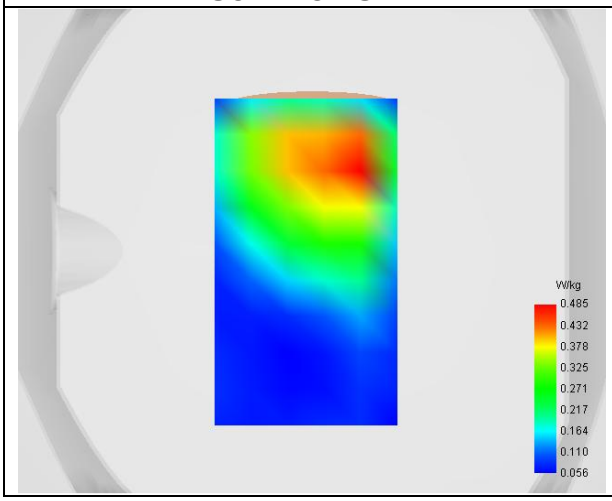
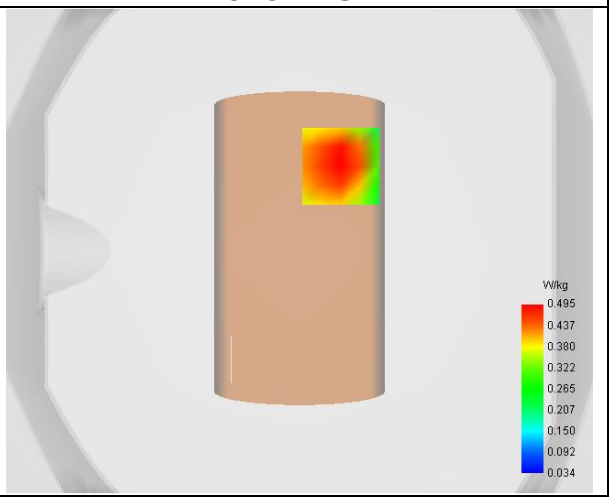
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels/Frequency	Middle (20175)/ frequency 1732.500 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	1732.500
Relative permitivity (real part)	39.34
Relative permitivity (imaginary part)	13.62
Conductivity (S/m)	1.31

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

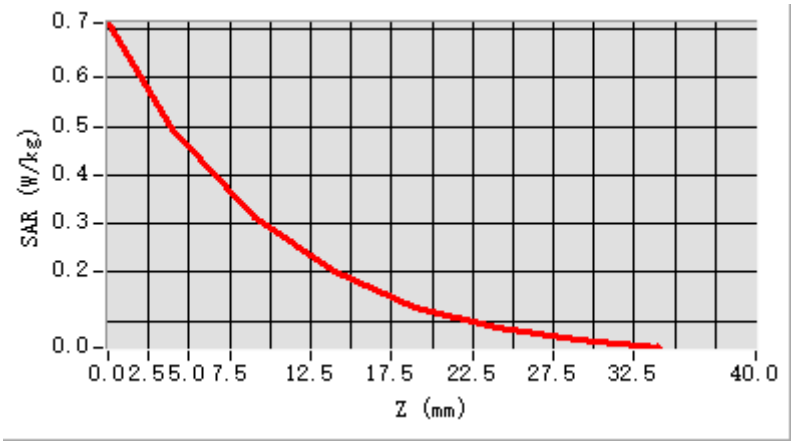
Maximum location: X=17.00, Y=35.00 ; SAR Peak: 0.75 W/kg

D. SAR 1g & 10g

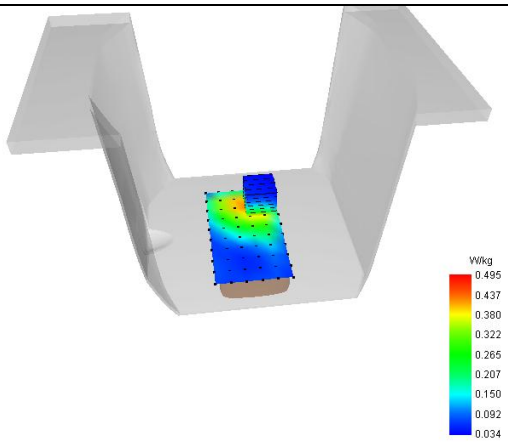
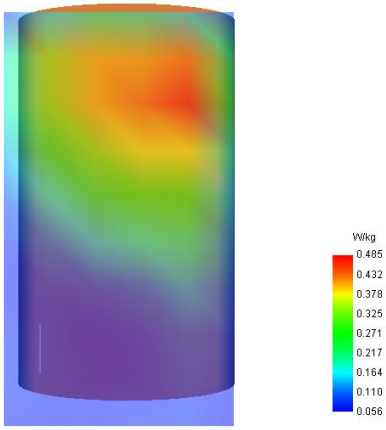
SAR 10g (W/Kg)	0.285
SAR 1g (W/Kg)	0.478
Variation (%)	0.41
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	62.90

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.713	0.495	0.311	0.200	0.129	0.088	0.061



F. 3D Image

3D screen shot	Hot spot position
	

21# SAR Measurement at LTE band 5 (Cheek, Left)
Date of measurement: 15/2/2025

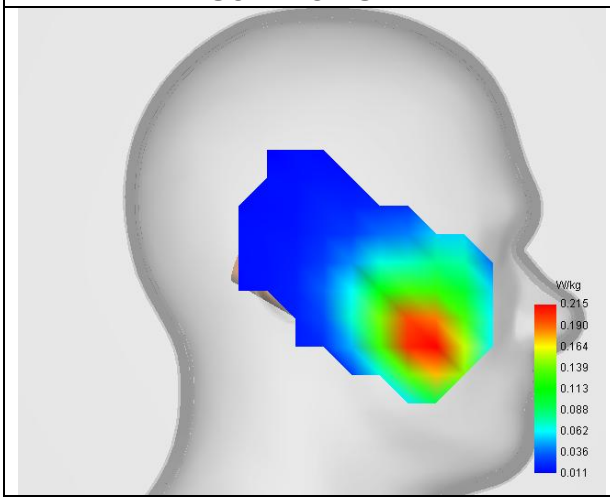
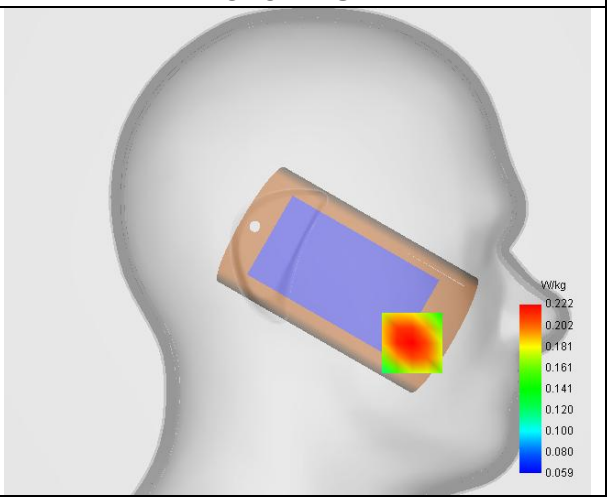
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.34
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	836.500
Relative permitivity (real part)	41.70
Relative permitivity (imaginary part)	19.61
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

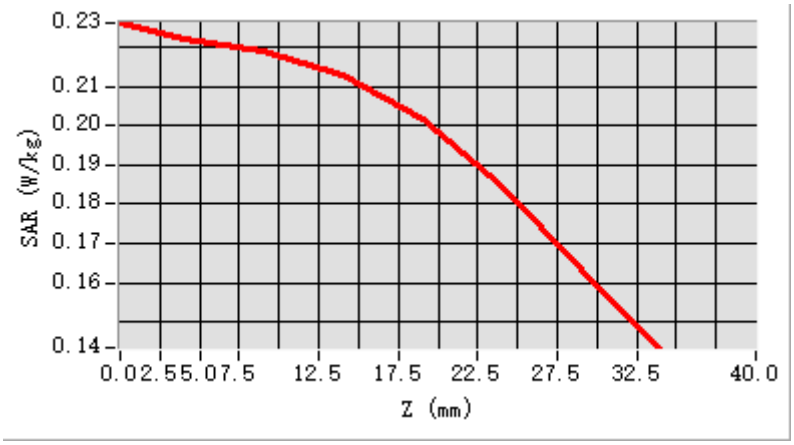
Maximum location: X=-61.00, Y=-49.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

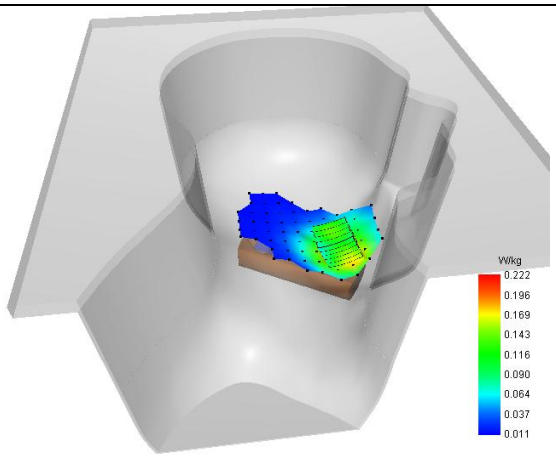
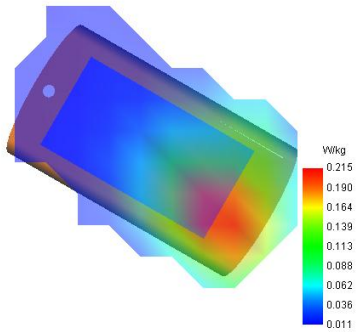
SAR 10g (W/Kg)	0.202
SAR 1g (W/Kg)	0.223
Variation (%)	2.97
Horizontal validation criteria: minimum distance (mm)	11.36
Vertical validation criteria: SAR ratio M2/M1 (%)	98.60

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.226	0.222	0.219	0.213	0.202	0.185	0.163



F. 3D Image

3D screen shot	Hot spot position
	

22# SAR Measurement at LTE band 5 (Body, Validation Plane)
Date of measurement: 15/2/2025

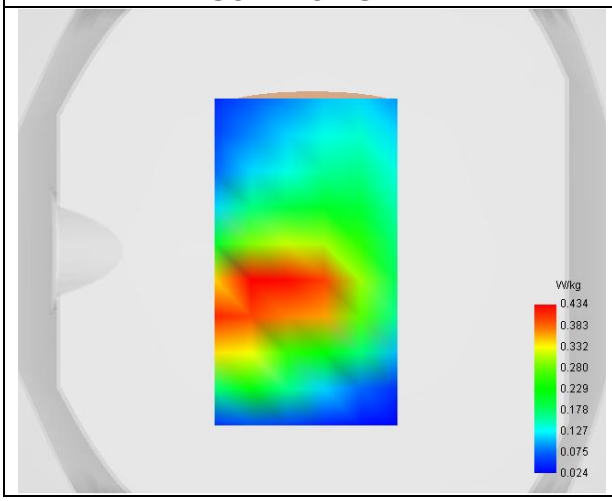
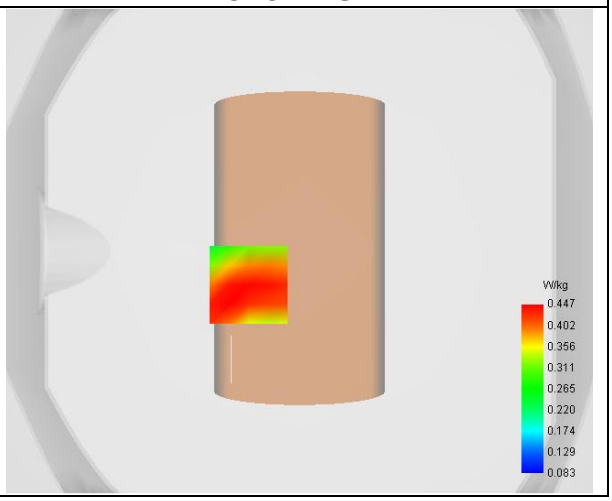
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.34
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	836.500
Relative permitivity (real part)	41.70
Relative permitivity (imaginary part)	19.61
Conductivity (S/m)	0.91

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

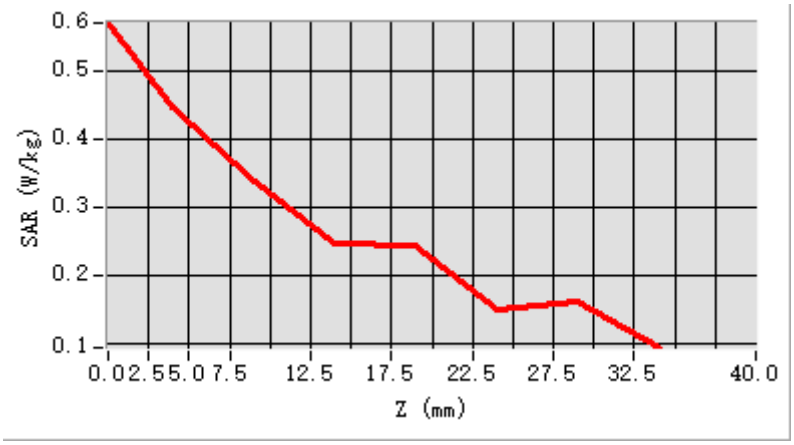
Maximum location: X=-21.00, Y=-14.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

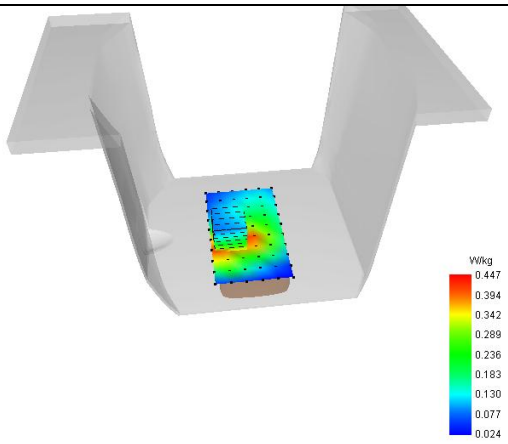
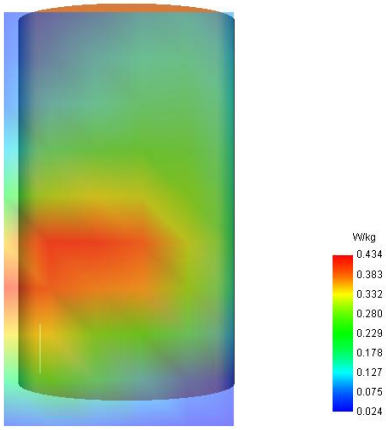
SAR 10g (W/Kg)	0.285
SAR 1g (W/Kg)	0.445
Variation (%)	0.21
Horizontal validation criteria: minimum distance (mm)	11.36
Vertical validation criteria: SAR ratio M2/M1 (%)	72.72

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.571	0.447	0.337	0.248	0.242	0.149	0.160



F. 3D Image

3D screen shot	Hot spot position
	

23# SAR Measurement at LTE band 7 (Cheek, Left)
Date of measurement: 18/2/2025

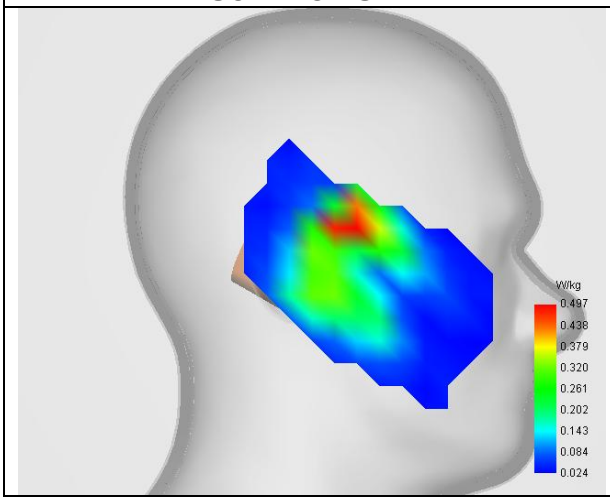
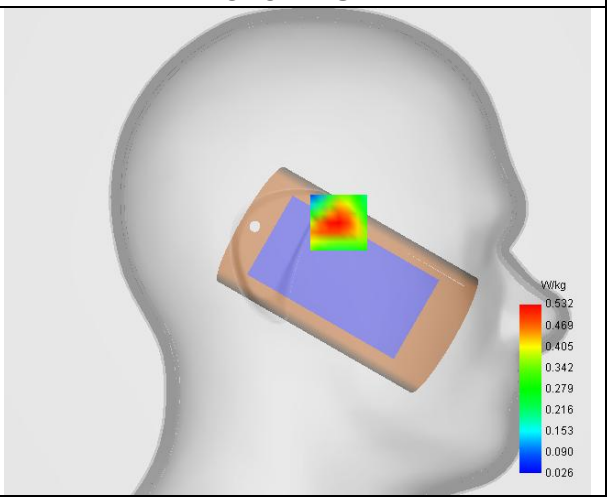
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 7
Channels/Frequency	Middle (21100)/ frequency 2535.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	2535.000
Relative permitivity (real part)	39.11
Relative permitivity (imaginary part)	13.49
Conductivity (S/m)	1.90

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

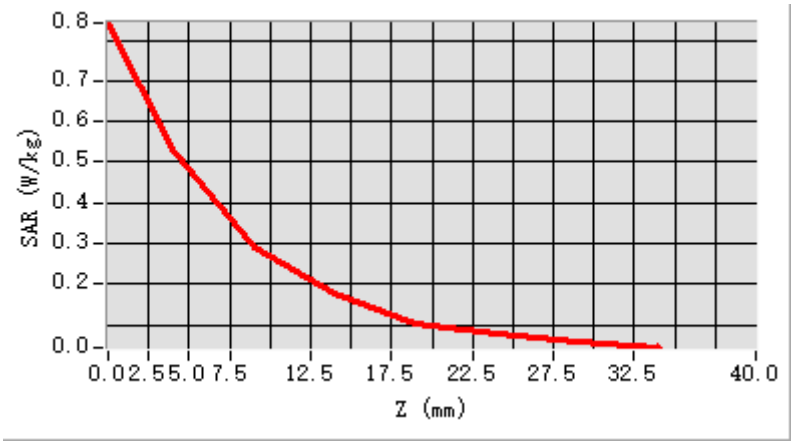
Maximum location: X=-22.00, Y=15.00 ; SAR Peak: 0.84 W/kg

D. SAR 1g & 10g

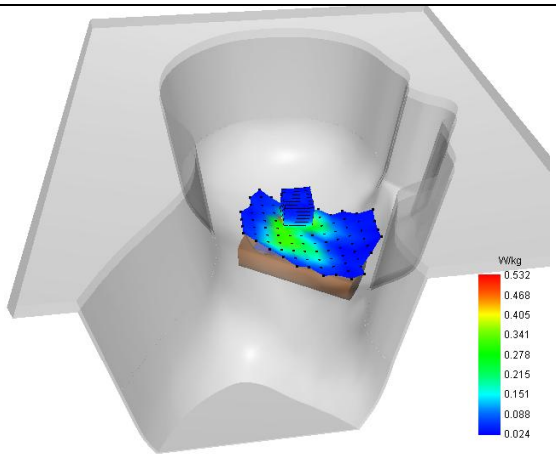
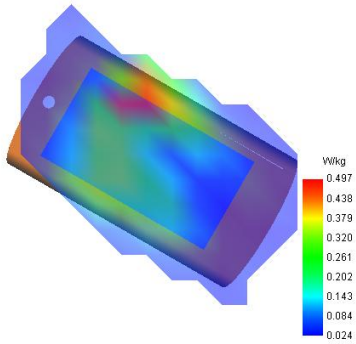
SAR 10g (W/Kg)	0.263
SAR 1g (W/Kg)	0.496
Variation (%)	-1.79
Horizontal validation criteria: minimum distance (mm)	14.14
Vertical validation criteria: SAR ratio M2/M1 (%)	54.47

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.842	0.532	0.290	0.176	0.104	0.077	0.060



F. 3D Image

3D screen shot	Hot spot position
	

24# SAR Measurement at LTE band 7 (Body, Validation Plane)
Date of measurement: 18/2/2025

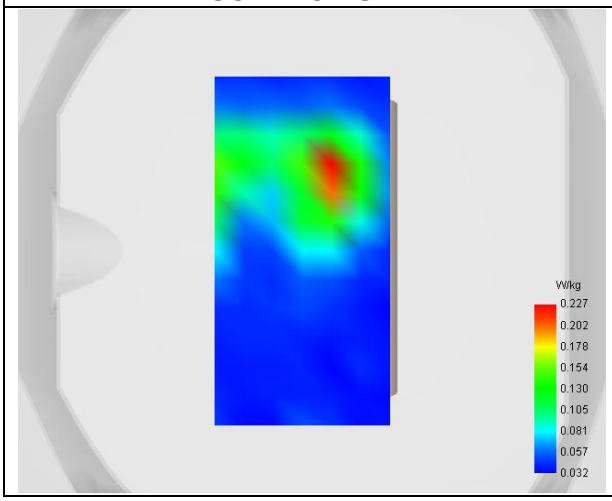
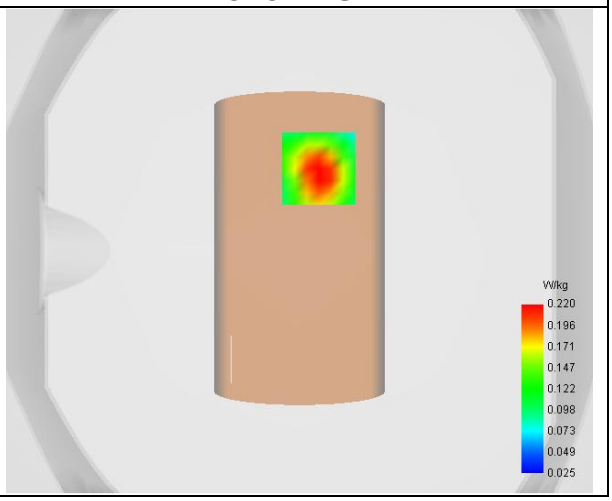
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels/Frequency	Middle (21100)/ frequency 2535.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	2535.000
Relative permitivity (real part)	39.11
Relative permitivity (imaginary part)	13.49
Conductivity (S/m)	1.90

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

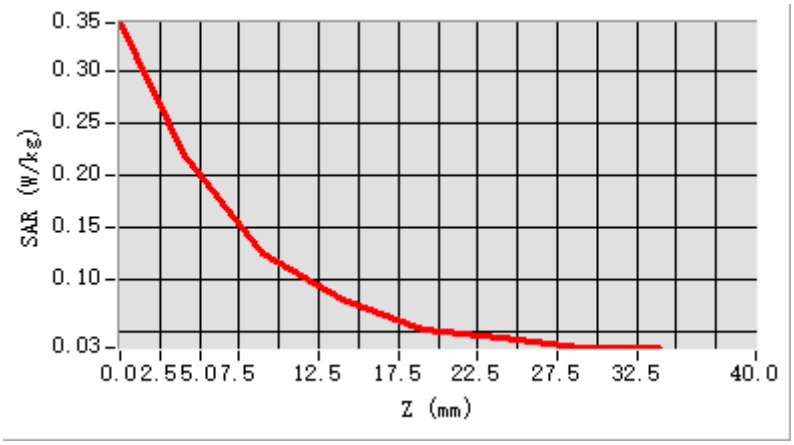
Maximum location: X=8.00, Y=34.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

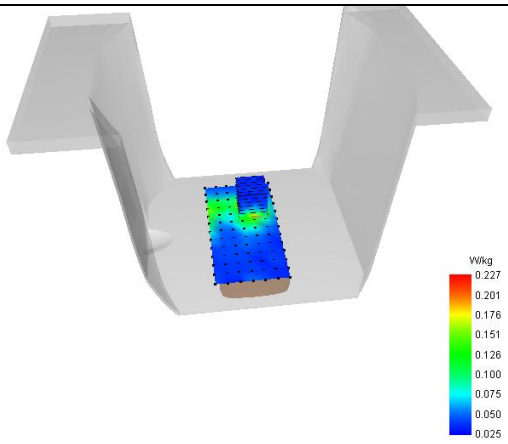
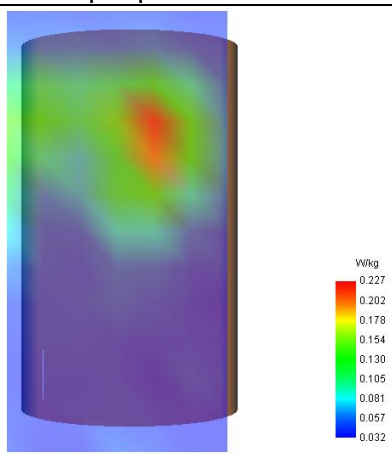
SAR 10g (W/Kg)	0.117
SAR 1g (W/Kg)	0.211
Variation (%)	-4.41
Horizontal validation criteria: minimum distance (mm)	15.81
Vertical validation criteria: SAR ratio M2/M1 (%)	56.63

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.347	0.220	0.125	0.080	0.051	0.044	0.035



F. 3D Image

3D screen shot	Hot spot position
	

25# SAR Measurement at LTE band 12 (Cheek, Left)
Date of measurement: 14/2/2025

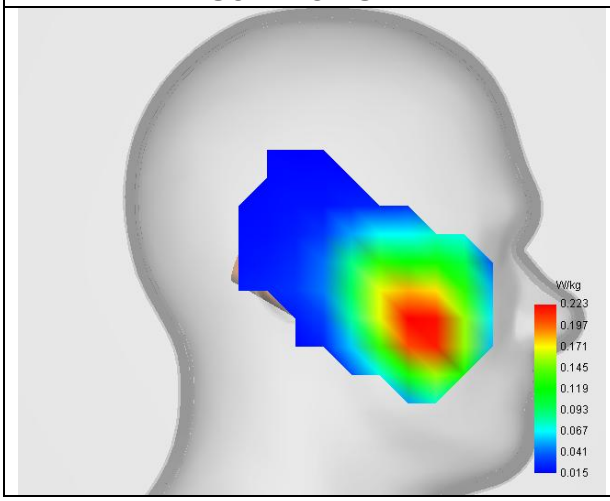
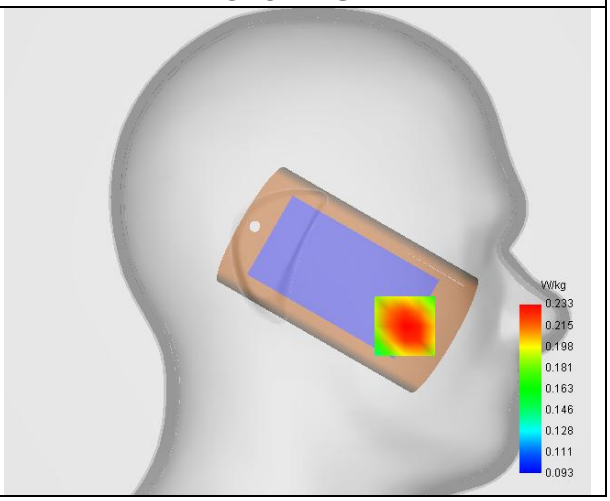
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.42
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Channels/Frequency	Middle (23095)/ frequency 707.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	707.500
Relative permitivity (real part)	41.21
Relative permitivity (imaginary part)	21.80
Conductivity (S/m)	0.86

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

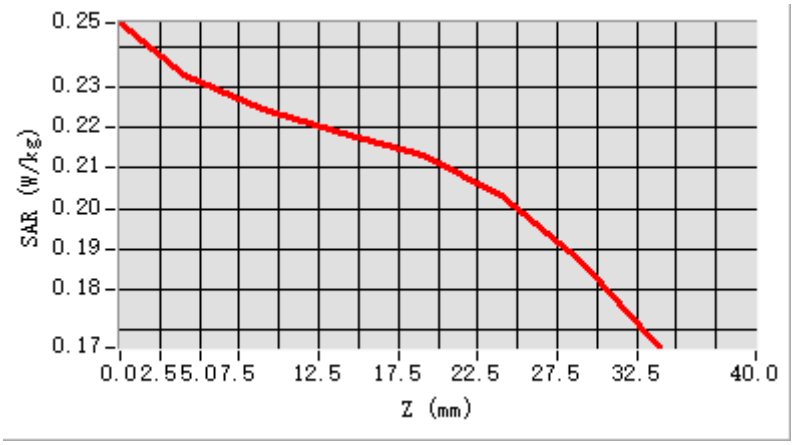
Maximum location: X=-57.00, Y=-40.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

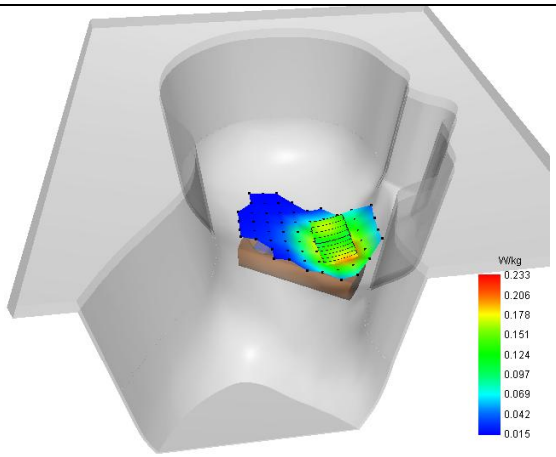
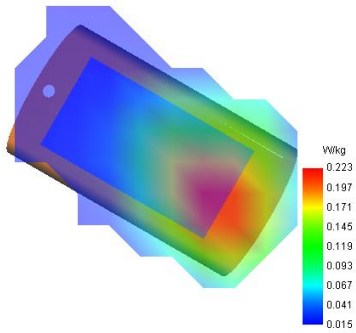
SAR 10g (W/Kg)	0.213
SAR 1g (W/Kg)	0.232
Variation (%)	0.60
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	96.54

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.246	0.233	0.225	0.219	0.213	0.203	0.187



F. 3D Image

3D screen shot	Hot spot position
	

26# SAR Measurement at LTE band 12 (Body, Validation Plane)
Date of measurement: 14/2/2025

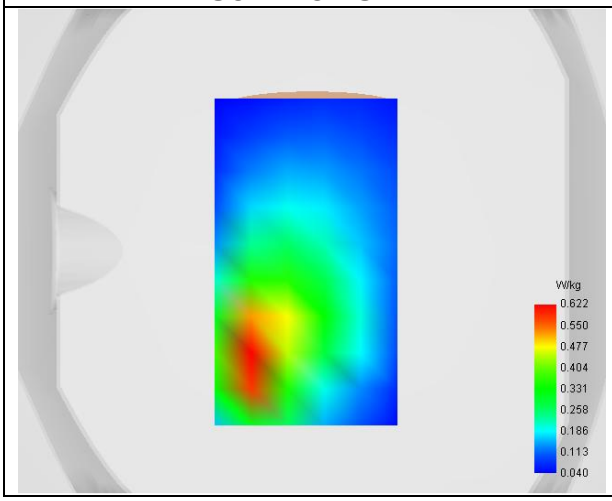
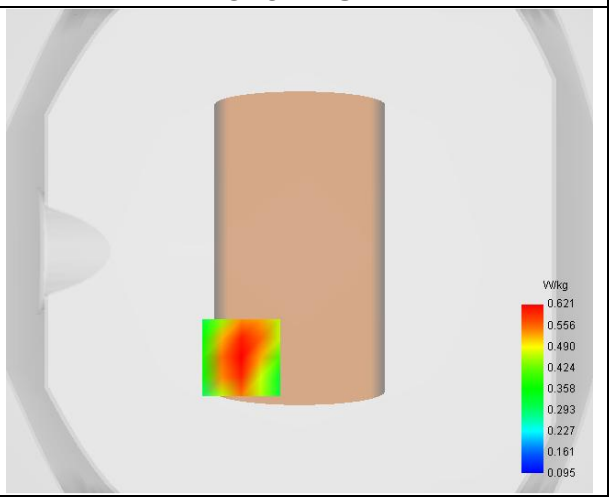
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.42
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels/Frequency	Middle (23095)/ frequency 707.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	707.500
Relative permitivity (real part)	41.21
Relative permitivity (imaginary part)	21.80
Conductivity (S/m)	0.86

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

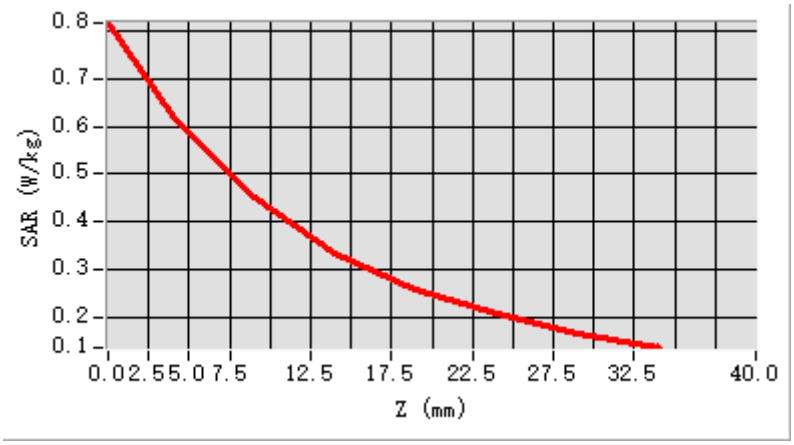
Maximum location: X=-24.00, Y=-44.00 ; SAR Peak: 0.82 W/kg

D. SAR 1g & 10g

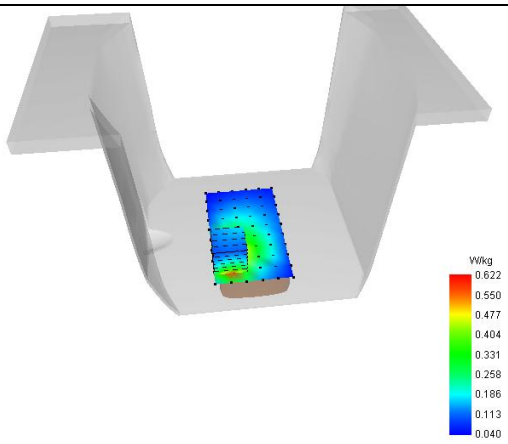
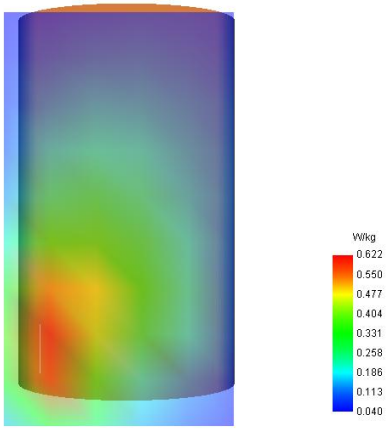
SAR 10g (W/Kg)	0.390
SAR 1g (W/Kg)	0.597
Variation (%)	-0.07
Horizontal validation criteria: minimum distance (mm)	22.63
Vertical validation criteria: SAR ratio M2/M1 (%)	72.43

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.817	0.621	0.450	0.333	0.257	0.206	0.164



F. 3D Image

3D screen shot	Hot spot position
	

27# SAR Measurement at LTE band 41 (Cheek, Left)
Date of measurement: 18/2/2025

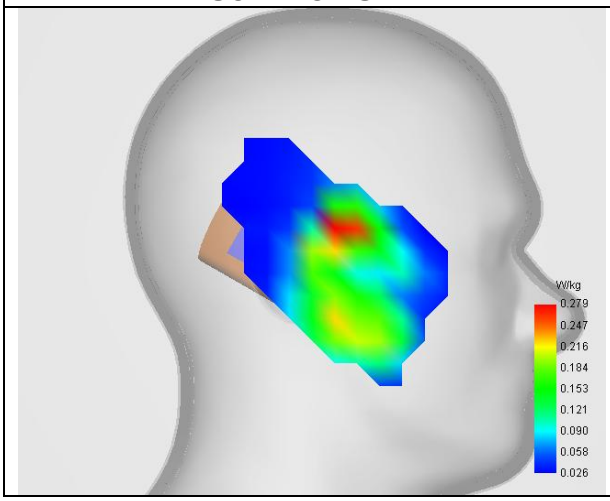
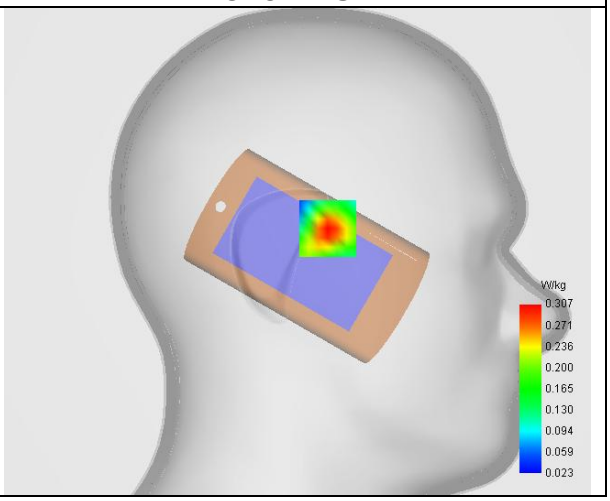
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 41
Channels/Frequency	Middle (40620)/ frequency 2593.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	2593.000
Relative permitivity (real part)	39.24
Relative permitivity (imaginary part)	13.80
Conductivity (S/m)	1.99

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

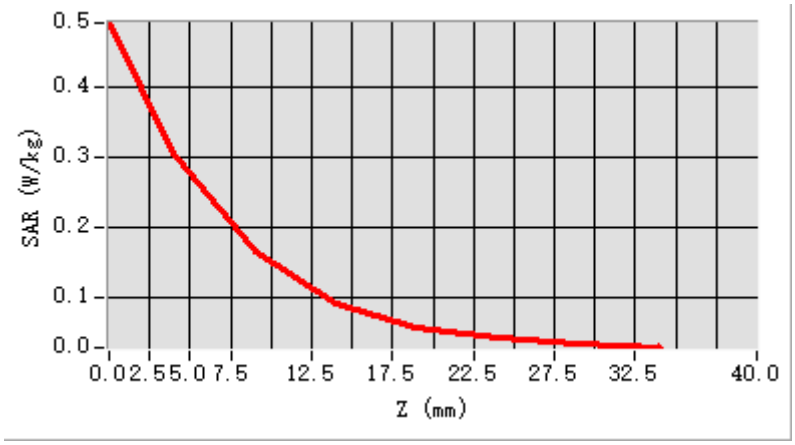
Maximum location: X=-16.00, Y=12.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

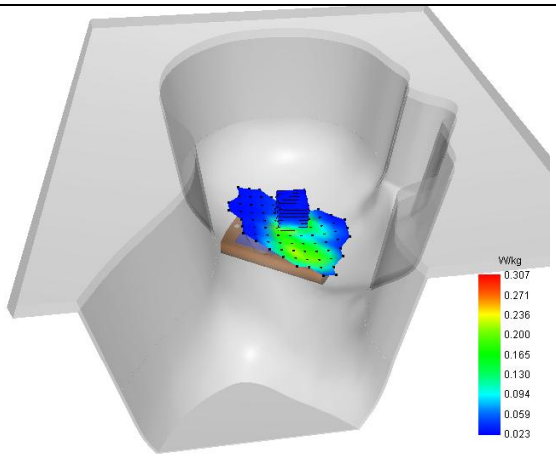
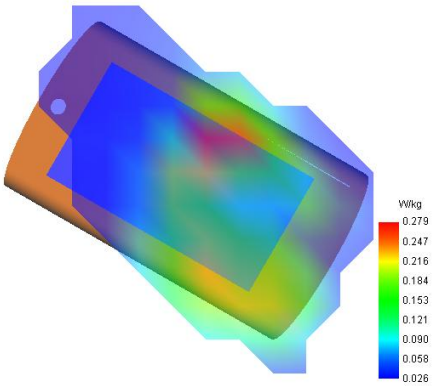
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.284
Variation (%)	-2.01
Horizontal validation criteria: minimum distance (mm)	11.18
Vertical validation criteria: SAR ratio M2/M1 (%)	54.10

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.492	0.307	0.166	0.093	0.059	0.043	0.036



F. 3D Image

3D screen shot	Hot spot position
	

28# SAR Measurement at LTE band 41 (Body, Validation Plane)
Date of measurement: 18/2/2025

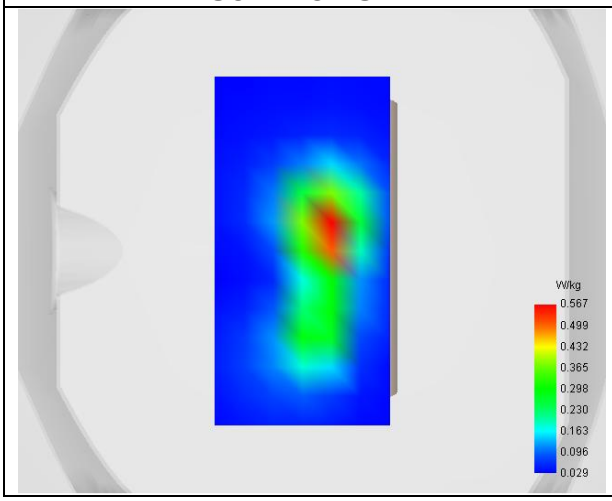
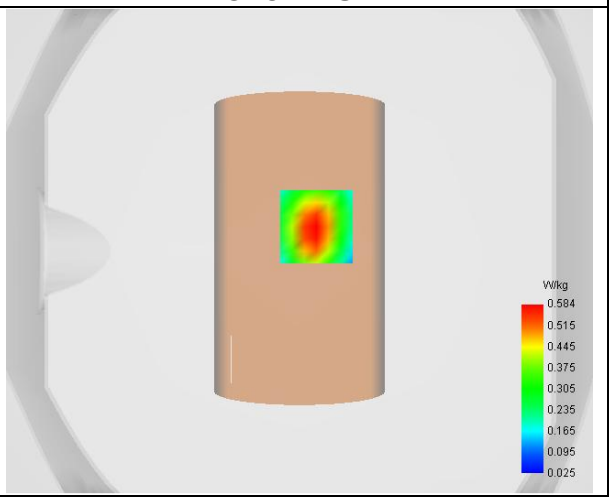
A. Experimental conditions.

Probe	4024-EPGO-442
ConvF	2.51
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels/Frequency	Middle (40620)/ frequency 2593.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK

B. Permitivity

Middle TX Frequency (MHz)	2593.000
Relative permitivity (real part)	39.24
Relative permitivity (imaginary part)	13.80
Conductivity (S/m)	1.99

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

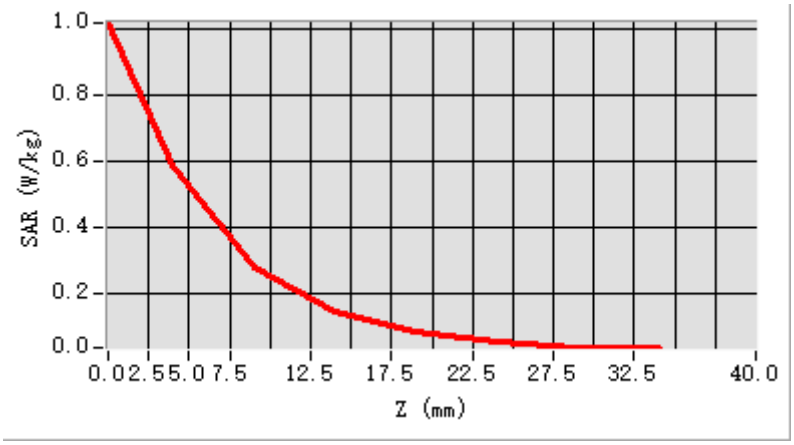
Maximum location: X=7.00, Y=10.00 ; SAR Peak: 1.01 W/kg

D. SAR 1g & 10g

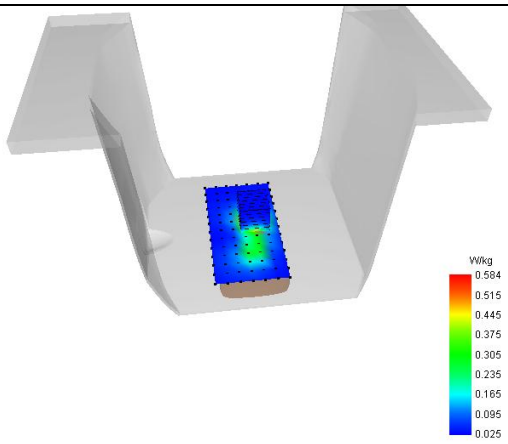
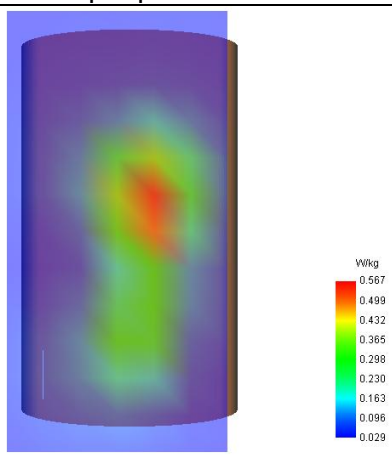
SAR 10g (W/Kg)	0.266
SAR 1g (W/Kg)	0.552
Variation (%)	-1.96
Horizontal validation criteria: minimum distance (mm)	14.14
Vertical validation criteria: SAR ratio M2/M1 (%)	47.85

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.018	0.584	0.280	0.141	0.080	0.052	0.034



F. 3D Image

3D screen shot	Hot spot position
	

14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - 4024-EPGO-442
750 MHz Dipole - SN 03/15 DIP 0G750-355
835 MHz Dipole - SN 03/15 DIP 0G835-347
1800 MHz Dipole - SN 03/15 DIP 1G800-349
1900 MHz Dipole - SN 03/15 DIP 1G900-350
2450 MHz Dipole - SN 03/15 DIP 2G450-352
2600 MHz Dipole - SN 03/15 DIP 2G600-356
5000-6000 MHz Dipole - SN 13/14 WGA 33

Docusign Envelope ID: 223C1A7C-4751-4B95-8502-1618DC0951E3

COMOSAR E-Field Probe Calibration Report

Ref : ACR.278.12.24.BES.A

SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

BUILDING E, FENDA SCIENCE PARK, SANWEI COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA

MVG COMOSAR DOSIMETRIC E-FIELD PROBE

SERIAL NO.: 4024-EPGO-442

Calibrated at MVG
Z.I. de la pointe du diable
Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE

Calibration date: 10/04/2024

Accreditations #2-6789
Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).

Docusign Envelope ID: 223C1A7C-4751-4B95-8502-1618DC0951E3

	Name	*Function*	*Date*	*Signature*
Prepared by :	Cyrille ONNEE	Measurement Responsible	10/4/2024	
Checked & approved by:	Pedro Ruiz	Technical Manager	10/4/2024	
Authorized by:	Pedro Ruiz	Laboratory Director	10/4/2024 Assinado por: Pedro RUIZ 29093B31C46F428...	

	Customer Name
Distribution :	SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

Issue	*Name*	*Date*	*Modifications*
A	Cyrille ONNEE	10/4/2024	Initial release

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Docusign Envelope ID: 223C1A7C-4751-4B95-8502-1618DC0951E3

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1 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	4024-EPGO-442
Product Condition (new / used)	New
Frequency Range of Probe	0.15 GHz-7.5GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=0.206 MΩ Dipole 2: R2=0.223 MΩ Dipole 3: R3=0.235 MΩ

2 PRODUCT DESCRIPTION

2.1 GENERAL INFORMATION

MVG's COMOSAR E field Probes are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards.

Figure 1 – *MVG COMOSAR Dosimetric E field Probe*

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe extremity	1 mm

3 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their effect. All calibrations / measurements performed meet the fore-mentioned standards.

3.1 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards for frequency range 600-7500MHz and using the calorimeter cell method (transfer method) as outlined in the standards for frequency 150-450 MHz.

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3.2 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01W/kg to 100W/kg.

3.3 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 to 360 degrees in 15-degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis (0°–180°) in 15° increments. At each step the probe is rotated about its axis (0°–360°).

3.4 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

The boundary effect uncertainty can be estimated according to the following uncertainty approximation formula based on linear and exponential extrapolations between the surface and d_{be} + d_{step} along lines that are approximately normal to the surface:

$$\mathrm{SAR}_{\mathrm{uncertainty}}[\%] = \delta\mathrm{SAR}_{be}\frac{(d_{be}+d_{step})^2}{2d_{step}}\frac{\left(e^{-d_{be}/(\delta/2)}\right)}{\delta/2} \quad \text{for } (d_{be}+d_{step}) < 10\text{ mm}$$

where

$\mathrm{SAR}_{\mathrm{uncertainty}}$	is the uncertainty in percent of the probe boundary effect
d_{be}	is the distance between the surface and the closest *zoom-scan* measurement point, in millimetre
Δ_{step}	is the separation distance between the first and second measurement points that are closest to the phantom surface, in millimetre, assuming the boundary effect at the second location is negligible
δ	is the minimum penetration depth in millimetres of the head tissue-equivalent liquids defined in this standard, i.e., $\delta \approx$ 14 mm at 3 GHz;
$\Delta\mathrm{SAR}_{be}$	in percent of SAR is the deviation between the measured SAR value, at the distance d_{be} from the boundary, and the analytical SAR value.

The measured worst case boundary effect SARuncertainty[%] for scanning distances larger than 4mm is 1.0% Limit ,2%).

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3.5 PROBE MODULATION RESPONSE

MVG's probe were evaluated experimentally with various modulated signal and the deviation from CW response were found neglectable in the used power range of the probe. So the correction to taking into account the linearization parameters for different modulation is null, therefore the CW factor given in this report can be used whatever the measured modulation

4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards were followed to generate the measurement uncertainty associated with a SAR probe calibration using the waveguide or calorimetric cell technique depending on the frequency.

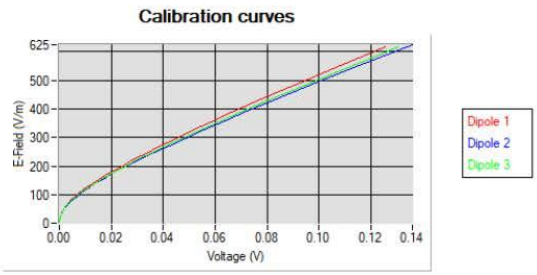
The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-11% for the frequency range 150-450MHz.
The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-14% for the frequency range 600-7500MHz.

5 CALIBRATION RESULTS

Ambient condition	
Liquid Temperature	20 +/- 1 °C
Lab Temperature	20 +/- 1 °C
Lab Humidity	30-70 %

5.1 CALIBRATION IN AIR

The following curve represents the measurement in waveguide of the voltage picked up by the probe toward the E-field generated inside the waveguide.



From this curve, the sensitivity in air is calculated using the below formula.

$$E^2 = \sum_{i=1}^{3} \frac{V_i\left(1 + {V_i}/{DCP_i}\right)}{Norm_i}$$

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where
Vi=voltage readings on the 3 channels of the probe
DCPi=diode compression point given below for the 3 channels of the probe
Normi=dipole sensitivity given below for the 3 channels of the probe

Normx dipole 1 (μV/(V/m)^2)	Normy dipole 2 (μV/(V/m)^2)	Normz dipole 3 (μV/(V/m)^2)
0.73	0.79	0.78

DCP dipole 1 (mV)	DCP dipole 2 (mV)	DCP dipole 3 (mV)
105	109	103

5.2 CALIBRATION IN LIQUID

The calorimeter cell or the waveguide is used to determine the calibration in liquid using the formula below.

$$ConvF = \frac{E_{liquid}^2}{E_{air}^2}$$

The E-field in the liquid is determined from the SAR measurement according to the below formula.

$$E_{liquid}^2 = \frac{\rho\, SAR}{\sigma}$$

where
σ=the conductivity of the liquid
ρ=the volumetric density of the liquid
SAR=the SAR measured from the formula that depends on the setup used. The SAR formulas are given below

For the calorimeter cell (150-450 MHz), the formula is:

$$SAR = c\frac{dT}{dt}$$

where
c=the specific heat for the liquid
dT/dt=the temperature rises over the time

For the waveguide setup (600-75000 MHz), the formula is:

$$SAR = \frac{4P_W}{ab\delta} e^{\frac{-2z}{\delta}}$$

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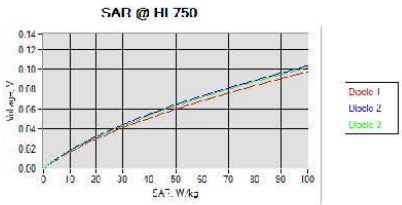
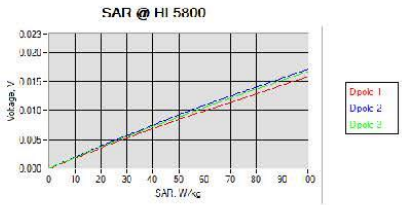
where
a=the larger cross-sectional of the waveguide
b=the smaller cross-sectional of the waveguide
δ=the skin depth for the liquid in the waveguide
Pw=the power delivered to the liquid

The below table summarize the ConvF for the calibrated liquid. The curves give examples for the measured SAR depending on the voltage in some liquid.

Liquid	Frequency (MHz*)	ConvF
HL750	750	2.42
HL850	835	2.34
HL900	900	2.24
HL1800	1800	2.51
HL1900	1900	2.57
HL2000	2000	2.64
HL2300	2300	2.73
HL2450	2450	2.74
HL2600	2600	2.51
HL3300	3300	2.11
HL3500	3500	2.15
HL3700	3700	2.08
HL3900	3900	2.27
HL4200	4200	2.39
HL4600	4600	2.30
HL4900	4900	2.13
HL5200	5200	1.89
HL5400	5400	1.97
HL5600	5600	1.88
HL5800	5800	1.90

(*) Frequency validity is +/-50MHz below 600MHz, +/-100MHz from 600MHz to 6GHz and +/-700MHz above 6GHz





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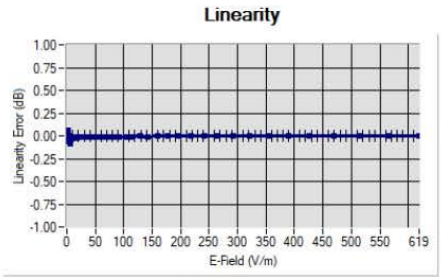
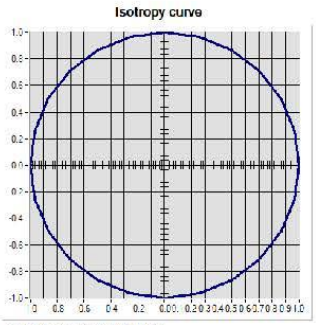
6 VERIFICATION RESULTS

The figures below represent the measured linearity and axial isotropy for this probe. The probe specification is +/-0.2 dB for linearity and +/-0.15 dB for axial isotropy.



Linearity:+/-1.90% (+/-0.08dB)



Isotropy:+/-0.12% (+/-0.01dB)

7 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	**Manufacturer / Model**	**Identification No.**	**Current Calibration Date**	**Next Calibration Date**
CALIPROBE Test Bench	Version 2	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rohde & Schwarz ZVM	100203	08/2021	08/2026
Network Analyzer – Calibration kit	Rohde & Schwarz ZV-Z235	101223	07/2022	07/2025
Multimeter	Keithley 2000	4013982	02/2023	02/2026
Signal Generator	Rohde & Schwarz SMB	106589	03/2022	03/2025
Amplifier	MVG	MODU-023-C-0002	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	NI-USB 5680	170100013	06/2021	06/2026
USB Sensor	Keysight U2000A	SN: MY62340002	10/2022	10/2025
Directional Coupler	Krytar 158020	131467	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Fluoroptic Thermometer	LumaSense Luxtron 812	94264	09/2022	09/2025
Coaxial cell	MVG	SN 32/16 COAXCELL_1	Validated. No cal required.	Validated. No cal required.

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Waveguide	MVG	SN 32/16 WG2_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_0G600_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG4_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_0G900_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG6_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG8_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800B_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800H_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG10_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_3G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG12_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_5G000_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG14_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_7G000_1	Validated. No cal required.	Validated. No cal required.
Temperature / Humidity Sensor	Testo 184 H1	44235403	02/2024	02/2027

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SAR Reference Dipole Calibration Report

Ref : ACR.53.23.24.BES.A

SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

BUILDING E, FENDA SCIENCE PARK, SANWEI COMMUNITY, XIXIANG STREET,

BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA

MVG COMOSAR REFERENCE DIPOLE

FREQUENCY: 750 MHZ

SERIAL NO.: SN 03/15DIP0G750-355

Calibrated at MVG

Z.I. de la pointe du diable

Technopôle Brest Iroise – 295 avenue Alexis de Rochon

29280 PLOUZANE - FRANCE

Calibration date: 02/21/2024

Accreditations #2-6789 and #2-6814
Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed in MVG using the COMOSAR test bench. All calibration results are traceable to national metrology institutions.

SAR REFERENCE DIPOLE CALIBRATION REPORT

REF : ACR.53.23.24.BES.A

	Name	*Function*	*Date*	*Signature*
Prepared by :	Pedro Ruiz	Measurement Responsible	2/22/2024	
Checked & approved by:	Jérôme Luc	Technical Manager	2/22/2024	
Authorized by:	Yann Toutain	Laboratory Director	2/27/2024	

Yann Toutain ID Signature numérique de Yann Toutain ID Date : 2024.02.27 08:54:37 +01'00'

	Customer Name
Distribution :	SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

Issue	*Name*	*Date*	*Modifications*
A	Pedro Ruiz	2/22/2024	Initial release

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