

Re: Class 2 change request
Applicant: Kyocera Wireless Corp
FCC ID: OVFPQCP-2035
731 Confirmation Number: EA97351

We would like to apply Class 2 Permissive change on our wireless handset QCP-2035 for a SAR solution modification. Originally, the metalized shroud was using to keep QCP-2035 SAR compliance. See attached photos in previous application. A full report was generated and submitted under FCC ID OVFPQCP-2035.

In order to improve QCP-2035 sensitivity and further reduce cost, a new SAR solution has been developed. This new solution is by placing a copper label on the bottom of shroud and a metal bracket on the rear housing.

With the new solution implemented, the related test was performed to re-confirm the compliance of QCP-2035 for Specific Absorption Rate. The report has been uploaded via FCC OET Electronic Filing Site.

Regards,

Lin Lu
EMC/Regulatory Engineer, Staff,
Kyocera Wireless Corp.
Tel. (858)882-2406
Email: LLu@qualcomm.com

Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Re: Class 2 permissive change (Response to a request by Linda Elliott)
Applicant: Kyocera Wireless Corp
FCC ID: OVFQCP-2035
Correspondence Reference Number: 14936
731 Confirmation Number: EA98058
Date of Original E-mail: 07/07/2000

This Class 2 Permissive Change application is for our new SAR solution. Originally, the metalized shroud was using to keep QCP-2035 SAR compliance. The original report was submitted on 04/13/2000 and the grant was issued on 06/26/2000. The new SAR solution is by placing a copper label on the bottom of shroud and mounting a metal bracket on the rear housing. We believe this change may impact SAR performance only. Therefore, the completed SAR test has been re-performed and the SAR test report was uploaded under RF Exposure Info. Section on 06/29/2000 via FCC OET Electronic Filing Site. The original Part 22 & 24 test report shall be still suitable for this version of QCP-2035.

In case the previous loading did not go through. We are re-uploading the SAR test report under RF Exposure Info. Section with this response.

Best Regards,

Lin Lu
EMC/Regulatory Engineer, Staff,
Kyocera Wireless Corp.
Tel. (858)882-2406
Email: LLu@qualcomm.com

KWC QCP-2035

Reconfirmation of compliance

SPECIFIC ABSORPTION RATE (SAR)

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1 PURPOSE

This test report re-confirms the compliance of the QCP-2035 for Specific Absorption Rate. This wireless hand held device, manufactured by Kyocera Wireless Corp., was tested previously and a full report was generated. The testing was performed again to re-confirm that the device is still SAR compliant after the new SAR solution was implemented to the phone.

2 SAR TEST FACILITY

SAR tests were performed in the same KWC/QCP Inc. SAR Test Facility located at the following address:

KWC/QCP Inc.
Building AA
10300 Campus Point Drive
San Diego, CA92131

The description of KWC/QCP Inc. SAR test facility was stated in the original SAR report that was submitted under FCC ID: OVFAQCP-2035.

3 APPLICABLE REGULATIONS

The QCP-2035 is designed to comply with the specific absorption rate SAR limits for distances within 20 cm of the transmitting elements of the MES, and with general public uncontrolled environment Maximum Permissible Exposure (MPE) limits at distances greater than 20 cm from the transmitting elements of the device, as required by Sections 1.1307 through 1.1310, 2.1093 of the 47 C.F.R. (1998). This test report pertains specifically to the following limit from the Code of Federal Regulations 47 "Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube)."

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4 NEW SAR SOLUTION

Originally, the metalized shroud was used in QCP-2035 for SAR compliance. See Photos in the original submittal under FCC ID: OVFQCP-2035.

In order to improve QCP-2035 sensitivity and further reduce the cost, a new SAR solution has been developed. This new solution is by placing a copper label on the bottom of shroud and grounded at one end (See photos below), and also placing a metal bracket on the rear housing and grounded through a screw (See photos below). The test data in the following section shows that QCP-2035 met the SAR requirement after the modification was made.

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New SAR Configuration

Copper sticker

(This sticker was placed on the bottom of the shroud)

Front



Back



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Shroud with copper sticker

Front



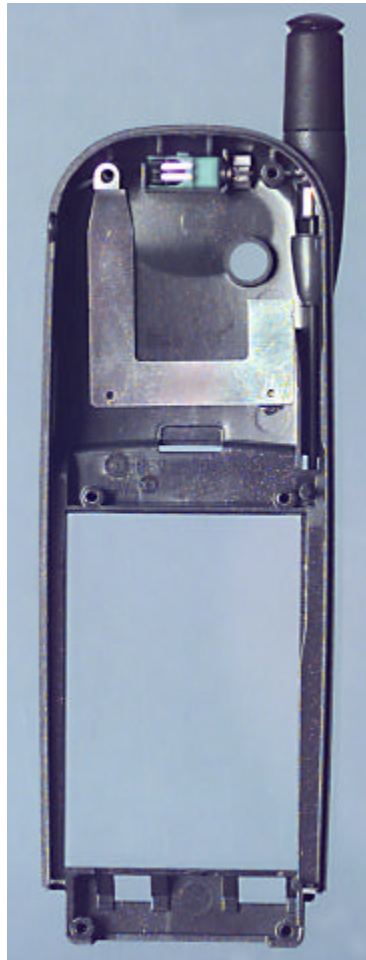
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Back



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Back Housing with metal bracket



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Metal Bracket

Top

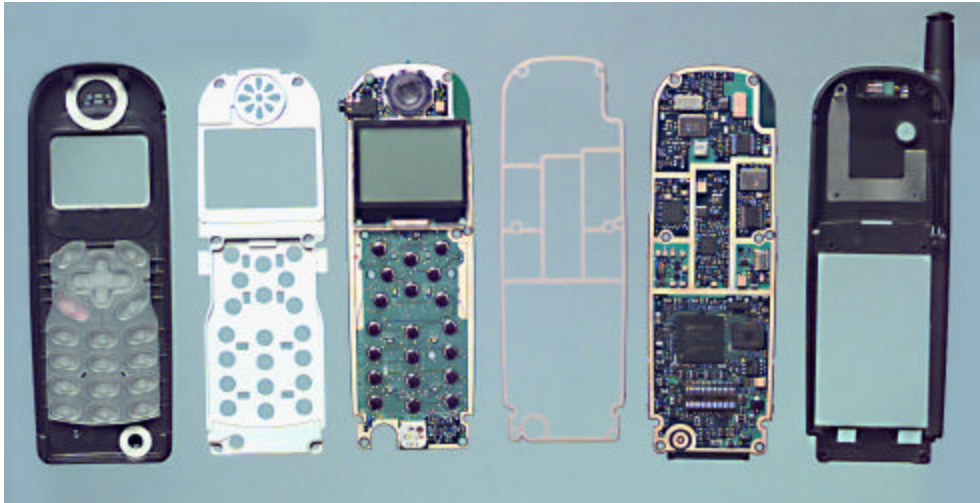


Bottom



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All breads
(w/ new SAR solution)



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5 TEST SAMPLE OPERATION

The test sample (S/N: 6GXV0013940437) was made to transmit maximum power controlled by a phone_t software, a KWC phone control software. The DASY 3 system checks E fields strength at a fixed location before and after each scan, and checks for drift due to draining of the battery or some other effect. This shows up as "drift" on the report and if it is too high the test is repeated.

6 MAXIMUM OUTPUT POWER AND SAR TEST RESULTS

6.1 Maximum output power

QCP-2035 was set to maximum conducted power level by using phone_t software. The analog RF output power (conducted) was measured using a HP 8920B RF communication test set. The CDMA RF output power (conducted) was measured using a HP 8594E Spectrum Analyzer that has the CDMA personality option. The conducted power level was set 1dB higher than the nominal power level to surely include the manufacture tolerance (0.75dB). The maximum conducted output power levels are listed in table 6-1.

Table 6-1: Maximum conducted output power

Mode/band	Max. conducted output power
Analog (FM) / cellular band	571.5 mW
Digital (CDMA) / cellular band	457.1 mW
Digital (CDMA) / PCS	208.9 mW

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6.2 SAR test results

QCP-2035 has been re-tested for the new SAR configuration described in Section 4. All normal antenna operating positions were incorporated, with the device transmitting maximum power of the low, high, and mid-band frequencies of the QCP-2035. The QCP-2035 has been shown to be capable of compliance for localised SAR limits specified in ANSI/IEEE std. C95.3-1992 and OET Bulletin 65.

SAR test setup was remained as same as previous setup. The setup photos were attached in the previous report.

The following table lists the 1gram average SAR values measured on the KWC QCP-2035:

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Brain SAR Measurement Results

Channel/Mode	SAR (mW/g) (antenna retracted)	SAR (mW/g) (antenna extended)
CH 383 - FM	1.49	1.01
CH 799 - FM	1.24	1.41
CH 991 - FM	1.02	1.27
CH 383 - CDMA	1.21	0.845
CH 777 - CDMA	0.879	1.06
CH 1013 - CDMA	0.821	0.912
CH 600 - PCS	0.696	0.899
CH 1175 - PCS	0.822	0.951
CH 25 - PCS	1.28	1.21

Body-Worn SAR Measurement Results (with KWC belt clip)

Channel/Mode	SAR (mW/g) (antenna retracted)	SAR (mW/g) (antenna extended)
CH 383 - FM	0.803	0.491
CH 799 - FM	0.925	0.809
CH 991 - FM	0.684	0.694
CH 600 - PCS	0.236	0.304
CH 1175 - PCS	0.222	0.214
CH 25 - PCS	0.347	0.358

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Body-Worn SAR Measurement Results (with 2.3cm air gap)

Channel/Mode	SAR (mW/g) (antenna retracted)	SAR (mW/g) (antenna extended)
CH 383 - FM	0.679	0.669
CH 799 - FM	1.24	1.11
CH 991 - FM	1.17	1.48
CH 600 - PCS	0.237	0.322
CH 1175 - PCS	0.289	0.343
CH 25 - PCS	0.541	0.535

All plots are attached at the end of this report.

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7 TISSUE PARAMETERS AND SAR TEST EQUIPMENT

To verify that the QCP-2035 is indeed SAR compliant, head SAR testing was performed with brain tissue and waist SAR testing was performed with muscle tissue.

The table below shows the parameters of brain and muscle tissue used for SAR tests reported in this report.

PARAMETERS OF BRAIN AND MUSCLE TISSUE

	Frequency	Permittivity	Conductivity (S/m)	Notes
Brain	900 MHz	42.5	0.85	specified by DASY3-user manual
Muscle	900 MHz	56.1	0.95	specified by OET bulletin 65, supplemental C and DASY3-user manual
Brain	1800 MHz	40.5	1.65	specified by DASY3-user manual
Muscle	1800 MHz	54	1.45	specified by OET bulletin 65, supplemental C.

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HP85070B dielectric measurement system was used to calibrate brain and muscle tissues. Before a head SAR testing, the system was validated using a symmetric dipole designed to be matched 10 mm from the phantom filled with the brain simulating fluid. With 1 watt input to the dipole, the correct SAR was determined by Schmid & Partner to be 9.44 mW/g for the type D900V2 dipole and 39.9 mW/gm for the type D1800V2 dipole. The manufacture validation data sheets were attached in the original submittal under FCC ID OVFQCP-2035. The validation results show in the proceeding pages.

Before a waist SAR testing, the probe conversion factor was set to 3% lower than for brain tissue in 900MHz frequency, and 10% lower than for brain tissue in 1800MHz, that is based on DASY3-user manual Page 49 and the email from Schmid & Partner Engineering AG. The user manual and email were attached in the original report. The dielectric data sheets of muscle tissue are attached in the proceeding pages.

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Validation Results

900MHz Validation 6-13-00, Target Value = 0.0944 mW/g (input power = 10dBm)

SAR (1g): 0.0934 [mW/g] $\pm$ 0.23 dB, SAR (10g): 0.0614 [mW/g] $\pm$ 0.25 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.8 ρ = 1.00 [g/cm³]

File Name: ValidationFlat 900MHz 6-13-00.DA3

Powerdrift: 0.02 dB



1800MHz Validation 6-16-00, Target Value = 0.399 mW/g (input power = 10dBm)

SAR (1g): 0.391 [mW/g] $\pm$ 0.23 dB, SAR (10g): 0.197 [mW/g] $\pm$ 0.27 dB

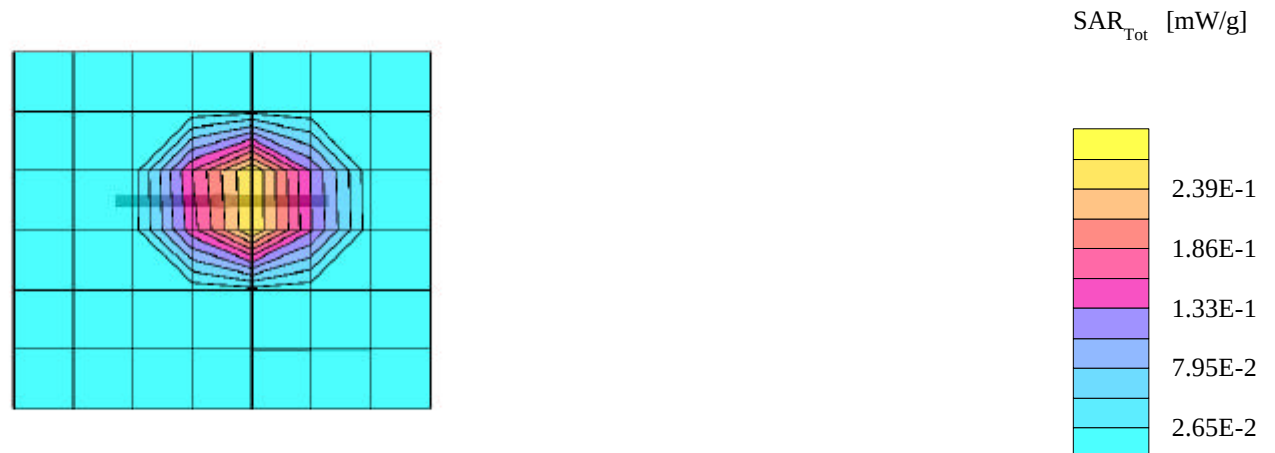
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: ValidationFlat 1800MHz 6-16-00.DA3

Powerdrift: -0.05 dB



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Dielectric data sheets

Reference math : OFF

Title: 6-19-00

A-1

Pt#	Frequency (GHz)	Data real	Data imag
1	0.100000000	66.55	3.99
2	0.114500000	66.34	4.32
3	0.129000000	66.13	4.43
4	0.143500000	65.92	4.38
5	0.158000000	65.82	4.61
6	0.172500000	65.71	4.76
7	0.187000000	65.58	4.86
8	0.201500000	65.39	5.02
9	0.216000000	65.28	5.06
10	0.230500000	64.96	5.19
11	0.245000000	64.92	5.47
12	0.259500000	64.75	5.53
13	0.274000000	64.80	5.53
14	0.288500000	64.71	5.84
15	0.303000000	64.45	6.11
16	0.317500000	64.36	6.21
17	0.332000000	64.18	6.31
18	0.346500000	64.16	6.44
19	0.361000000	64.05	6.59
20	0.375500000	63.86	6.68
21	0.390000000	63.80	6.85
22	0.404500000	63.69	7.09
23	0.419000000	63.62	7.14
24	0.433500000	63.49	7.32
25	0.448000000	63.33	7.34
26	0.462500000	63.29	7.59
27	0.477000000	63.19	7.75
28	0.491500000	63.07	7.81
29	0.506000000	62.87	7.93
30	0.520500000	62.85	8.09
31	0.535000000	62.73	8.20
32	0.549500000	62.64	8.38
33	0.564000000	62.49	8.55
34	0.578500000	62.42	8.65
35	0.593000000	62.28	8.83
36	0.607500000	62.21	8.86
37	0.622000000	62.11	9.00
38	0.636500000	62.01	9.07
39	0.651000000	61.90	9.18
40	0.665500000	61.81	9.35
41	0.680000000	61.72	9.48
42	0.694500000	61.64	9.62
43	0.709000000	61.47	9.69
44	0.723500000	61.43	9.84
45	0.738000000	61.29	9.95
46	0.752500000	61.14	10.03
47	0.767000000	61.07	10.12
48	0.781500000	61.02	10.29
49	0.796000000	60.89	10.36
50	0.810500000	60.76	10.48
51	0.825000000	60.66	10.58
52	0.839500000	60.57	10.70
53	0.854000000	60.48	10.76

1800MHz Muscle tissue
cal.

54	0.868500000	60.38	10.87
55	0.883000000	60.33	10.99
56	0.897500000	60.19	11.13
57	0.912000000	60.05	11.22
58	0.926500000	60.00	11.31
59	0.941000000	59.87	11.41
60	0.955500000	59.80	11.53
61	0.970000000	59.67	11.60
62	0.984500000	59.55	11.75
63	0.999000000	59.46	11.80
64	1.013500000	59.38	11.87
65	1.028000000	59.26	11.99
66	1.042500000	59.16	12.07
67	1.057000000	59.06	12.14
68	1.071500000	58.95	12.24
69	1.086000000	58.86	12.29
70	1.100500000	58.78	12.40
71	1.115000000	58.65	12.47
72	1.129500000	58.54	12.53
73	1.144000000	58.44	12.61
74	1.158500000	58.34	12.70
75	1.173000000	58.26	12.76
76	1.187500000	58.18	12.81
77	1.202000000	58.13	12.90
78	1.216500000	58.06	12.97
79	1.231000000	57.98	13.05
80	1.245500000	57.85	13.14
81	1.260000000	57.81	13.24
82	1.274500000	57.71	13.36
83	1.289000000	57.61	13.47
84	1.303500000	57.53	13.54
85	1.318000000	57.42	13.60
86	1.332500000	57.32	13.66
87	1.347000000	57.21	13.73
88	1.361500000	57.08	13.82
89	1.376000000	57.00	13.87
90	1.390500000	56.90	13.95
91	1.405000000	56.82	14.05
92	1.419500000	56.69	14.08
93	1.434000000	56.64	14.14
94	1.448500000	56.50	14.23
95	1.463000000	56.41	14.26
96	1.477500000	56.32	14.30
97	1.492000000	56.25	14.38
98	1.506500000	56.16	14.44
99	1.521000000	56.09	14.47
100	1.535500000	56.03	14.54
101	1.550000000	55.94	14.59
102	1.564500000	55.87	14.65
103	1.579000000	55.79	14.77
104	1.593500000	55.72	14.83
105	1.608000000	55.62	14.89
106	1.622500000	55.56	14.96
107	1.637000000	55.43	15.03
108	1.651500000	55.34	15.12
109	1.666000000	55.24	15.16
110	1.680500000	55.14	15.22

111	1.695000000	55.05	15.25
112	1.709500000	54.97	15.33
113	1.724000000	54.84	15.38
114	1.738500000	54.76	15.43
115	1.753000000	54.67	15.42
116	1.767500000	54.62	15.48
117	1.782000000	54.52	15.56
118	1.796500000	54.44	15.58
119	1.811000000	54.38	15.63
120	1.825500000	54.31	15.66
121	1.840000000	54.21	15.75
122	1.854500000	54.18	15.77
123	1.869000000	54.09	15.85
124	1.883500000	54.02	15.90
125	1.898000000	53.91	15.95
126	1.912500000	53.83	16.04
127	1.927000000	53.76	16.11
128	1.941500000	53.68	16.16
129	1.956000000	53.58	16.20
130	1.970500000	53.50	16.24
131	1.985000000	53.45	16.28
132	1.999500000	53.33	16.35
133	2.014000000	53.26	16.38
134	2.028500000	53.15	16.42
135	2.043000000	53.08	16.47
136	2.057500000	53.00	16.54
137	2.072000000	52.92	16.57
138	2.086500000	52.83	16.58
139	2.101000000	52.77	16.63
140	2.115500000	52.69	16.70
141	2.130000000	52.60	16.71
142	2.144500000	52.54	16.76
143	2.159000000	52.47	16.79
144	2.173500000	52.40	16.83
145	2.188000000	52.32	16.86
146	2.202500000	52.24	16.92
147	2.217000000	52.17	16.98
148	2.231500000	52.10	16.96
149	2.246000000	52.03	17.05
150	2.260500000	51.95	17.07
151	2.275000000	51.89	17.12
152	2.289500000	51.82	17.17
153	2.304000000	51.76	17.20
154	2.318500000	51.64	17.26
155	2.333000000	51.59	17.28
156	2.347500000	51.52	17.33
157	2.362000000	51.45	17.36
158	2.376500000	51.38	17.40
159	2.391000000	51.32	17.43
160	2.405500000	51.25	17.51
161	2.420000000	51.20	17.53
162	2.434500000	51.12	17.55
163	2.449000000	51.05	17.56
164	2.463500000	51.00	17.63
165	2.478000000	50.92	17.68
166	2.492500000	50.88	17.70
167	2.507000000	50.79	17.76

$\sigma = 1.56 \text{ m/s}$

Reference math : OFF

Title: 6-20-00

B-1

Pt#	Frequency (GHz)	Data real	Data tan d
1	0.100000000	65.52	0.990
2	0.114500000	65.19	0.875
3	0.129000000	64.92	0.794
4	0.143500000	64.52	0.733
5	0.158000000	64.49	0.682
6	0.172500000	64.35	0.632
7	0.187000000	63.94	0.599
8	0.201500000	63.34	0.570
9	0.216000000	63.27	0.541
10	0.230500000	63.05	0.518
11	0.245000000	62.87	0.501
12	0.259500000	62.58	0.484
13	0.274000000	62.36	0.465
14	0.288500000	62.24	0.451
15	0.303000000	62.09	0.439
16	0.317500000	61.81	0.428
17	0.332000000	61.73	0.418
18	0.346500000	61.56	0.411
19	0.361000000	61.36	0.403
20	0.375500000	61.25	0.393
21	0.390000000	60.96	0.388
22	0.404500000	60.82	0.385
23	0.419000000	60.60	0.378
24	0.433500000	60.50	0.373
25	0.448000000	60.34	0.369
26	0.462500000	60.15	0.365
27	0.477000000	60.02	0.360
28	0.491500000	59.90	0.357
29	0.506000000	59.78	0.354
30	0.520500000	59.61	0.351
31	0.535000000	59.48	0.349
32	0.549500000	59.35	0.348
33	0.564000000	59.16	0.346
34	0.578500000	59.03	0.344
35	0.593000000	58.93	0.342
36	0.607500000	58.72	0.341
37	0.622000000	58.63	0.340
38	0.636500000	58.52	0.338
39	0.651000000	58.35	0.338
40	0.665500000	58.20	0.337
41	0.680000000	58.08	0.335
42	0.694500000	57.96	0.335
43	0.709000000	57.82	0.334
44	0.723500000	57.67	0.335
45	0.738000000	57.58	0.333
46	0.752500000	57.41	0.333
47	0.767000000	57.32	0.332
48	0.781500000	57.18	0.333
49	0.796000000	57.02	0.333
50	0.810500000	56.92	0.333
51	0.825000000	56.77	0.334
52	0.839500000	56.75	0.332
53	0.854000000	56.61	0.333

900 MHz Muscle tissue
Cal.

54	0.868500000	56.48	0.332
55	0.883000000	56.34	0.333
56	0.897500000	56.20	0.333 → $\sigma = 0.94 \text{ mho/m}$
57	0.912000000	56.14	0.334
58	0.926500000	55.99	0.335
59	0.941000000	55.91	0.335
60	0.955500000	55.77	0.335
61	0.970000000	55.65	0.335
62	0.984500000	55.54	0.336
63	0.999000000	55.42	0.336
64	1.013500000	55.31	0.337
65	1.028000000	55.17	0.338
66	1.042500000	55.06	0.338
67	1.057000000	54.98	0.339
68	1.071500000	54.79	0.340
69	1.086000000	54.71	0.340
70	1.100500000	54.61	0.341
71	1.115000000	54.52	0.341
72	1.129500000	54.40	0.342
73	1.144000000	54.32	0.342
74	1.158500000	54.19	0.343
75	1.173000000	54.08	0.345
76	1.187500000	53.95	0.345
77	1.202000000	53.86	0.346
78	1.216500000	53.77	0.346
79	1.231000000	53.66	0.348
80	1.245500000	53.53	0.347
81	1.260000000	53.41	0.348
82	1.274500000	53.30	0.349
83	1.289000000	53.26	0.350
84	1.303500000	53.18	0.350
85	1.318000000	53.09	0.351
86	1.332500000	52.99	0.352
87	1.347000000	52.90	0.353
88	1.361500000	52.77	0.354
89	1.376000000	52.65	0.355
90	1.390500000	52.55	0.356
91	1.405000000	52.47	0.357
92	1.419500000	52.39	0.358
93	1.434000000	52.25	0.359
94	1.448500000	52.15	0.360
95	1.463000000	52.00	0.361
96	1.477500000	51.90	0.362
97	1.492000000	51.82	0.363
98	1.506500000	51.79	0.362
99	1.521000000	51.72	0.363
100	1.535500000	51.65	0.363
101	1.550000000	51.52	0.363
102	1.564500000	51.46	0.365
103	1.579000000	51.36	0.366
104	1.593500000	51.28	0.368
105	1.608000000	51.22	0.369
106	1.622500000	51.17	0.369
107	1.637000000	51.07	0.371
108	1.651500000	50.94	0.372
109	1.666000000	50.84	0.373
110	1.680500000	50.69	0.375

Reference math : OFF

Title: 6-27-00

C-1

Pt#	Frequency (GHz)	Data real	Data imag
1	0.100000000	66.12	64.60
2	0.114500000	66.12	56.81
3	0.129000000	65.92	51.55
4	0.143500000	65.50	47.32
5	0.158000000	65.14	43.46
6	0.172500000	64.70	40.49
7	0.187000000	64.63	38.01
8	0.201500000	64.08	36.12
9	0.216000000	63.84	34.18
10	0.230500000	63.46	32.48
11	0.245000000	63.19	31.20
12	0.259500000	63.05	29.92
13	0.274000000	62.69	28.89
14	0.288500000	62.74	27.94
15	0.303000000	62.53	27.21
16	0.317500000	62.44	26.46
17	0.332000000	62.36	25.73
18	0.346500000	62.17	24.95
19	0.361000000	61.91	24.50
20	0.375500000	61.81	24.02
21	0.390000000	61.48	23.45
22	0.404500000	61.23	23.04
23	0.419000000	60.97	22.70
24	0.433500000	60.76	22.40
25	0.448000000	60.57	22.03
26	0.462500000	60.40	21.71
27	0.477000000	60.18	21.51
28	0.491500000	59.96	21.12
29	0.506000000	59.73	20.88
30	0.520500000	59.51	20.67
31	0.535000000	59.40	20.54
32	0.549500000	59.23	20.36
33	0.564000000	59.07	20.13
34	0.578500000	58.93	20.10
35	0.593000000	58.81	19.93
36	0.607500000	58.70	19.75
37	0.622000000	58.54	19.65
38	0.636500000	58.37	19.48
39	0.651000000	58.23	19.43
40	0.665500000	58.11	19.30
41	0.680000000	57.98	19.21
42	0.694500000	57.83	19.18
43	0.709000000	57.72	19.06
44	0.723500000	57.51	19.05
45	0.738000000	57.37	18.93
46	0.752500000	57.21	18.85
47	0.767000000	57.07	18.80
48	0.781500000	56.90	18.79
49	0.796000000	56.83	18.73
50	0.810500000	56.65	18.67
51	0.825000000	56.55	18.58
52	0.839500000	56.40	18.63
53	0.854000000	56.36	18.57

900MHz Muscle tissue Cal.

54	0.868500000	56.21	18.55
55	0.883000000	56.12	18.47
56	0.897500000	56.05	18.48 → $\sigma = 0.94 \text{ mha/m}$
57	0.912000000	55.88	18.48
58	0.926500000	55.84	18.43
59	0.941000000	55.67	18.42
60	0.955500000	55.52	18.43
61	0.970000000	55.43	18.39
62	0.984500000	55.37	18.38
63	0.999000000	55.27	18.38
64	1.013500000	55.14	18.37
65	1.028000000	55.03	18.37
66	1.042500000	54.94	18.41
67	1.057000000	54.80	18.37
68	1.071500000	54.70	18.44
69	1.086000000	54.64	18.41
70	1.100500000	54.51	18.43
71	1.115000000	54.38	18.38
72	1.129500000	54.26	18.40
73	1.144000000	54.15	18.39
74	1.158500000	54.05	18.38
75	1.173000000	53.92	18.44
76	1.187500000	53.84	18.45
77	1.202000000	53.73	18.44
78	1.216500000	53.71	18.48
79	1.231000000	53.54	18.43
80	1.245500000	53.47	18.47
81	1.260000000	53.41	18.47
82	1.274500000	53.31	18.48
83	1.289000000	53.24	18.52
84	1.303500000	53.18	18.54
85	1.318000000	53.07	18.57
86	1.332500000	53.00	18.59
87	1.347000000	52.92	18.62
88	1.361500000	52.82	18.64
89	1.376000000	52.75	18.68
90	1.390500000	52.67	18.70
91	1.405000000	52.62	18.76
92	1.419500000	52.55	18.73
93	1.434000000	52.41	18.77
94	1.448500000	52.37	18.80
95	1.463000000	52.26	18.80
96	1.477500000	52.16	18.83
97	1.492000000	52.07	18.86
98	1.506500000	51.98	18.85
99	1.521000000	51.85	18.85
100	1.535500000	51.78	18.87
101	1.550000000	51.74	18.88
102	1.564500000	51.66	18.91
103	1.579000000	51.61	18.92
104	1.593500000	51.54	18.91
105	1.608000000	51.50	18.92
106	1.622500000	51.46	18.95
107	1.637000000	51.39	18.96
108	1.651500000	51.32	18.96
109	1.666000000	51.26	19.00
110	1.680500000	51.20	18.99

Reference math : OFF

Title: 6-27-00b

D-1

Pt#	Frequency (GHz)	Data real	Data imag
1	0.100000000	66.35	3.71
2	0.114500000	66.11	3.75
3	0.129000000	66.34	4.08
4	0.143500000	66.43	4.28
5	0.158000000	66.11	4.21
6	0.172500000	65.85	4.40
7	0.187000000	65.74	4.48
8	0.201500000	65.46	4.68
9	0.216000000	65.09	4.88
10	0.230500000	64.95	5.03
11	0.245000000	64.76	5.18
12	0.259500000	64.90	5.29
13	0.274000000	64.65	5.44
14	0.288500000	64.53	5.53
15	0.303000000	64.50	5.83
16	0.317500000	64.59	5.86
17	0.332000000	64.53	6.06
18	0.346500000	64.33	6.06
19	0.361000000	64.19	6.25
20	0.375500000	64.10	6.34
21	0.390000000	63.75	6.44
22	0.404500000	63.63	6.61
23	0.419000000	63.47	6.84
24	0.433500000	63.29	7.05
25	0.448000000	63.11	7.18
26	0.462500000	63.01	7.19
27	0.477000000	62.85	7.34
28	0.491500000	62.65	7.45
29	0.506000000	62.48	7.48
30	0.520500000	62.34	7.66
31	0.535000000	62.29	7.89
32	0.549500000	62.10	7.95
33	0.564000000	62.00	8.08
34	0.578500000	61.90	8.23
35	0.593000000	61.77	8.34
36	0.607500000	61.72	8.44
37	0.622000000	61.62	8.60
38	0.636500000	61.45	8.71
39	0.651000000	61.37	8.77
40	0.665500000	61.20	8.91
41	0.680000000	61.17	8.97
42	0.694500000	61.04	9.11
43	0.709000000	60.90	9.25
44	0.723500000	60.77	9.39
45	0.738000000	60.70	9.45
46	0.752500000	60.59	9.56
47	0.767000000	60.44	9.68
48	0.781500000	60.32	9.83
49	0.796000000	60.20	9.89
50	0.810500000	60.07	9.99
51	0.825000000	60.00	10.11
52	0.839500000	59.89	10.24
53	0.854000000	59.84	10.29

1800 MHz Muscle tissue
cal.

54	0.868500000	59.73	10.41
55	0.883000000	59.63	10.51
56	0.897500000	59.61	10.64
57	0.912000000	59.47	10.70
58	0.926500000	59.43	10.77
59	0.941000000	59.31	10.89
60	0.955500000	59.18	10.95
61	0.970000000	59.07	11.08
62	0.984500000	59.02	11.18
63	0.999000000	58.94	11.26
64	1.013500000	58.82	11.39
65	1.028000000	58.75	11.49
66	1.042500000	58.68	11.59
67	1.057000000	58.56	11.62
68	1.071500000	58.50	11.77
69	1.086000000	58.41	11.84
70	1.100500000	58.31	11.95
71	1.115000000	58.21	12.00
72	1.129500000	58.10	12.08
73	1.144000000	58.02	12.18
74	1.158500000	57.93	12.23
75	1.173000000	57.79	12.36
76	1.187500000	57.70	12.43
77	1.202000000	57.65	12.53
78	1.216500000	57.58	12.65
79	1.231000000	57.49	12.66
80	1.245500000	57.43	12.75
81	1.260000000	57.36	12.81
82	1.274500000	57.25	12.90
83	1.289000000	57.20	13.02
84	1.303500000	57.16	13.12
85	1.318000000	57.06	13.20
86	1.332500000	57.04	13.26
87	1.347000000	56.94	13.35
88	1.361500000	56.88	13.45
89	1.376000000	56.78	13.52
90	1.390500000	56.72	13.63
91	1.405000000	56.70	13.74
92	1.419500000	56.65	13.78
93	1.434000000	56.53	13.86
94	1.448500000	56.46	13.93
95	1.463000000	56.38	14.01
96	1.477500000	56.23	14.10
97	1.492000000	56.23	14.16
98	1.506500000	56.10	14.24
99	1.521000000	56.04	14.28
100	1.535500000	55.91	14.34
101	1.550000000	55.88	14.39
102	1.564500000	55.79	14.45
103	1.579000000	55.77	14.54
104	1.593500000	55.71	14.58
105	1.608000000	55.68	14.65
106	1.622500000	55.61	14.69
107	1.637000000	55.53	14.76
108	1.651500000	55.46	14.80
109	1.666000000	55.42	14.87
110	1.680500000	55.36	14.93

111	1.695000000	55.32	15.00
112	1.709500000	55.21	15.05
113	1.724000000	55.16	15.13
114	1.738500000	55.03	15.16
115	1.753000000	54.96	15.22
116	1.767500000	54.87	15.25
117	1.782000000	54.79	15.30
118	1.796500000	54.73	15.35
119	1.811000000	54.66	15.44 $\rightarrow \sigma = 1.57 \text{ mho/m}$
120	1.825500000	54.58	15.45
121	1.840000000	54.50	15.52
122	1.854500000	54.44	15.55
123	1.869000000	54.38	15.64
124	1.883500000	54.32	15.68
125	1.898000000	54.25	15.72
126	1.912500000	54.20	15.79
127	1.927000000	54.14	15.82
128	1.941500000	54.04	15.88
129	1.956000000	54.00	15.93
130	1.970500000	53.92	15.98
131	1.985000000	53.83	16.03
132	1.999500000	53.79	16.07
133	2.014000000	53.73	16.14
134	2.028500000	53.63	16.18
135	2.043000000	53.54	16.21
136	2.057500000	53.45	16.25
137	2.072000000	53.35	16.29
138	2.086500000	53.27	16.32
139	2.101000000	53.19	16.36
140	2.115500000	53.08	16.38
141	2.130000000	53.07	16.43
142	2.144500000	52.99	16.45
143	2.159000000	52.92	16.48
144	2.173500000	52.87	16.51
145	2.188000000	52.80	16.54
146	2.202500000	52.73	16.56
147	2.217000000	52.67	16.56
148	2.231500000	52.61	16.62
149	2.246000000	52.52	16.62
150	2.260500000	52.46	16.67
151	2.275000000	52.39	16.68
152	2.289500000	52.36	16.75
153	2.304000000	52.25	16.78
154	2.318500000	52.21	16.80
155	2.333000000	52.16	16.84
156	2.347500000	52.06	16.87
157	2.362000000	51.99	16.92
158	2.376500000	51.93	16.97
159	2.391000000	51.84	16.99
160	2.405500000	51.75	17.00
161	2.420000000	51.66	17.07
162	2.434500000	51.53	17.10
163	2.449000000	51.45	17.15
164	2.463500000	51.38	17.18
165	2.478000000	51.32	17.22
166	2.492500000	51.22	17.25
167	2.507000000	51.15	17.27

Company	Kyocera Wireless Corp.		Document No.
Document	SAR RECONFIRMATION TEST		Issue No: 1
Equipment	QCP-2035		Date June 2000
		Page Number	19

SAR Plots

QCP-2035, #0437, FM ch383

SAR (1g): 1.49 [mW/g] $\pm$ 0.17 dB, SAR (10g): 1.07 [mW/g] $\pm$ 0.14 dB

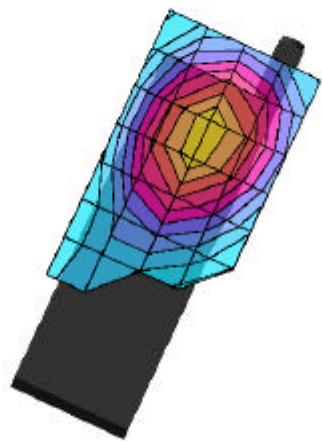
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

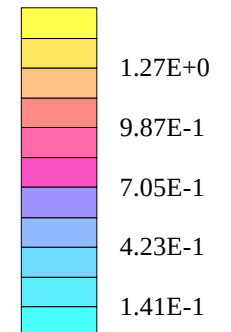
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.8 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, FM ch383, Ant G, 6-13-00.DA3

Powerdrift: 0.01 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch383

SAR (1g): 1.01 [mW/g] $\pm$ 0.21 dB, SAR (10g): 0.738 [mW/g] $\pm$ 0.15 dB

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

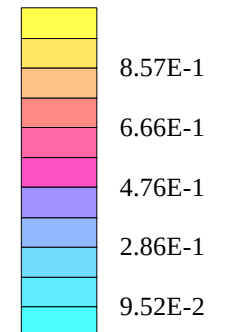
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.8 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, FM ch383, Ant G, 6-13-00.DA3

Powerdrift: 0.04 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch799

SAR (1g): 1.24 [mW/g] $\pm$ 0.14 dB, SAR (10g): 0.922 [mW/g] $\pm$ 0.14 dB

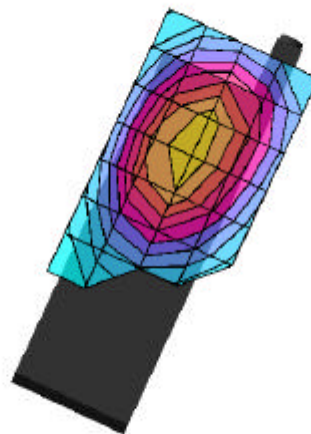
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

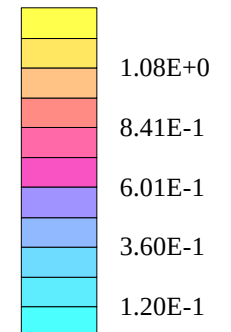
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.8 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, FM ch799, Ant G, 6-13-00.DA3

Powerdrift: -0.00 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch799

SAR (1g): 1.41 [mW/g] $\pm$ 0.16 dB, SAR (10g): 1.02 [mW/g] $\pm$ 0.16 dB

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

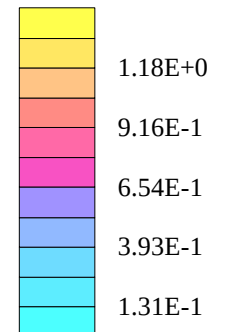
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.8 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, FM ch799, Ant G, 6-13-00.DA3

Powerdrift: -0.02 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch991

SAR (1g): $1.02 \text{ [mW/g]} \pm 0.05 \text{ dB}$, SAR (10g): $0.724 \text{ [mW/g]} \pm 0.05 \text{ dB}$

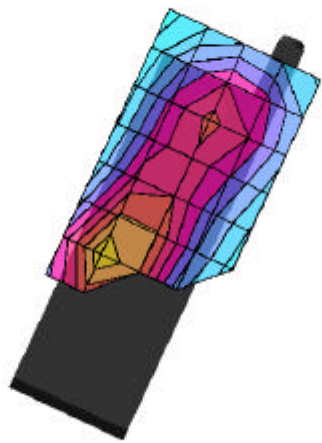
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

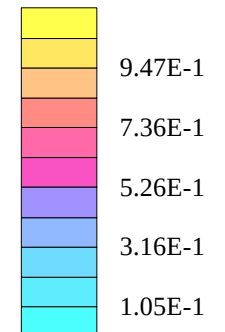
Brain 900MHz: $\sigma = 0.85 \text{ [mho/m]}$ $\epsilon_r = 42.8$ $\rho = 1.00 \text{ [g/cm}^3\text{]}$

File Name: 6GP P4B_5, #0437_b, FM ch991, Ant G, 6-13-00.DA3

Powerdrift: 0.03 dB



SAR_{Tot} [mW/g]

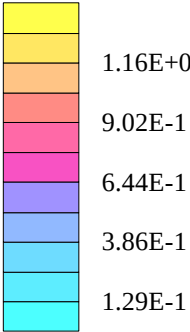


QCP-2035, #0437, FM ch991

SAR (1g): 1.27 [mW/g] ± 0.01 dB, SAR (10g): 0.896 [mW/g] ± 0.01 dB
Generic Twin Phantom; Left Hand Section
Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)
Brain 900MHz: $\sigma = 0.85$ [mho/m] $\epsilon_r = 42.8$ $\rho = 1.00$ [g/cm³]
File Name: 6GP P4B_5, #0437_b, FM ch991, Ant G, 6-13-00.DA3
Powerdrift: -0.00 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch383

SAR (1g): $1.21 \text{ [mW/g]} \pm 0.20 \text{ dB}$, SAR (10g): $0.886 \text{ [mW/g]} \pm 0.18 \text{ dB}$

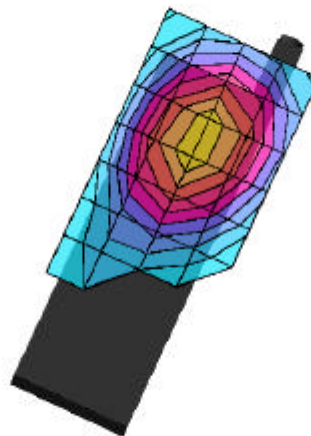
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

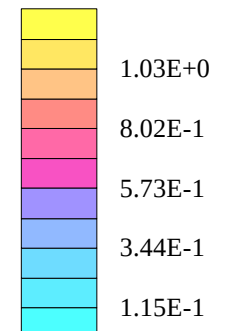
Brain 900MHz: $\sigma = 0.85 \text{ [mho/m]}$ $\epsilon_r = 42.1$ $\rho = 1.00 \text{ [g/cm}^3\text{]}$

File Name: 6GP P4B_5, #0437_b, CDMA ch383, Ant G, 6-19-00.DA3

Powerdrift: 0.10 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch383

SAR (1g): 0.845 [mW/g] $\pm$ 0.16 dB, SAR (10g): 0.629 [mW/g] $\pm$ 0.17 dB

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

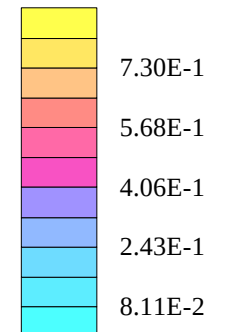
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.1 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, CDMA ch383, Ant G, 6-19-00.DA3

Powerdrift: 0.08 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch777

SAR (1g): 0.879 [mW/g] $\pm$ 0.16 dB, SAR (10g): 0.653 [mW/g] $\pm$ 0.15 dB

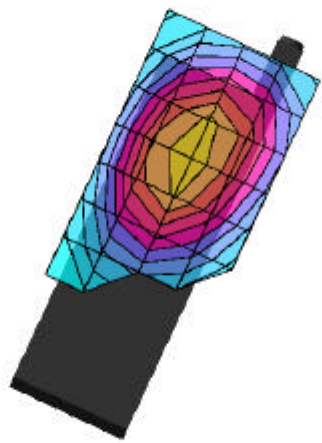
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

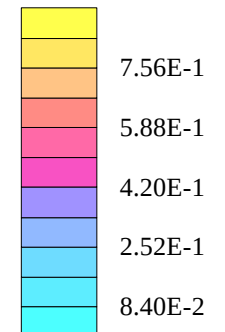
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.1 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, CDMA ch777, Ant G, 6-19-00.DA3

Powerdrift: 0.02 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch777

SAR (1g): $1.06 \text{ [mW/g]} \pm 0.13 \text{ dB}$, SAR (10g): $0.772 \text{ [mW/g]} \pm 0.16 \text{ dB}$

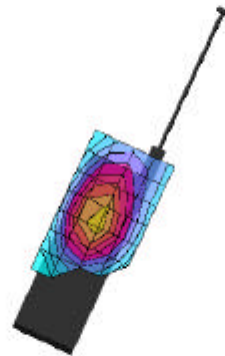
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

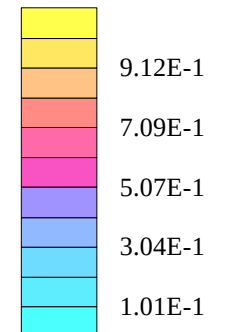
Brain 900MHz: $\sigma = 0.85 \text{ [mho/m]}$ $\epsilon_r = 42.1$ $\rho = 1.00 \text{ [g/cm}^3\text{]}$

File Name: 6GP P4B_5, #0437_b, CDMA ch777, Ant G, 6-19-00.DA3

Powerdrift: 0.05 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch1013

SAR (1g): 0.821 [mW/g] $\pm$ 0.02 dB, SAR (10g): 0.588 [mW/g] $\pm$ 0.03 dB

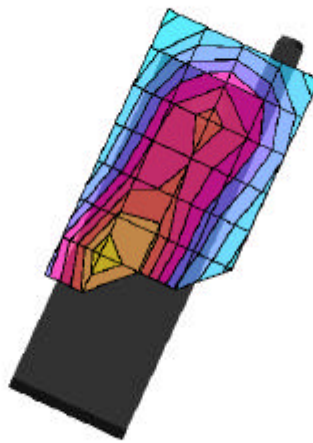
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

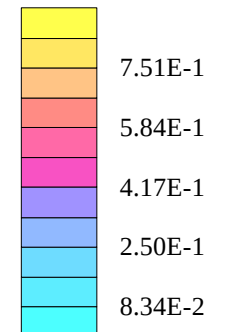
Brain 900MHz: σ = 0.85 [mho/m] ϵ_r = 42.1 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437_b, CDMA ch1013, Ant G, 6-19-00.DA3

Powerdrift: 0.16 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, CDMA ch1013

SAR (1g): $0.912 \text{ [mW/g]} \pm 0.08 \text{ dB}$, SAR (10g): $0.639 \text{ [mW/g]} \pm 0.01 \text{ dB}$

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.90,5.90,5.90)

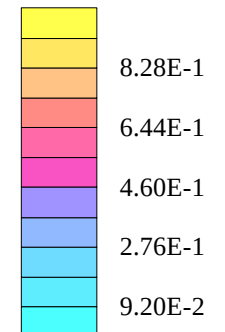
Brain 900MHz: $\sigma = 0.85 \text{ [mho/m]}$ $\epsilon_r = 42.1$ $\rho = 1.00 \text{ [g/cm}^3\text{]}$

File Name: 6GP P4B_5, #0437_b, CDMA ch1013, Ant G, 6-19-00.DA3

Powerdrift: -0.03 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch600

SAR (1g): 0.696 [mW/g] $\pm$ 0.04 dB, SAR (10g): 0.406 [mW/g] $\pm$ 0.10 dB

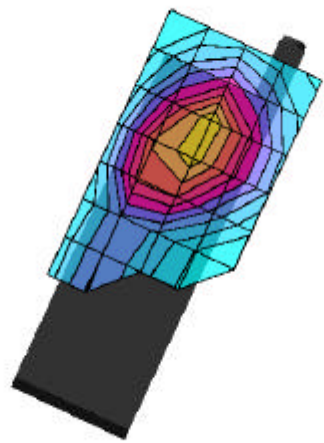
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

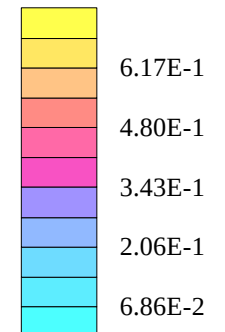
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, Ant G, 6-16-00.DA3

Powerdrift: 0.11 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch600

SAR (1g): 0.899 [mW/g] $\pm$ 0.01 dB, SAR (10g): 0.531 [mW/g] $\pm$ 0.03 dB

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

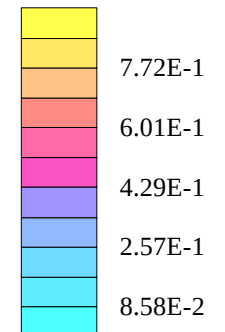
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, Ant G, 6-16-00.DA3

Powerdrift: -0.02 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch1175

SAR (1g): 0.822 [mW/g] $\pm$ 0.01 dB, SAR (10g): 0.465 [mW/g] $\pm$ 0.05 dB

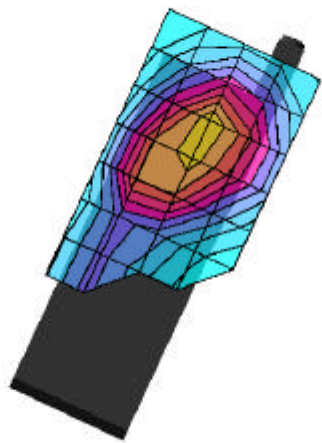
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

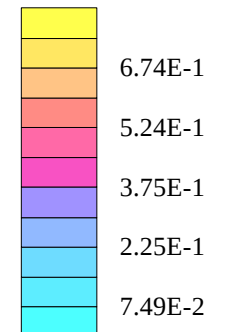
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, Ant G, 6-16-00.DA3

Powerdrift: 0.04 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch1175

SAR (1g): 0.951 [mW/g] $\pm$ 0.05 dB, SAR (10g): 0.532 [mW/g] $\pm$ 0.03 dB

Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

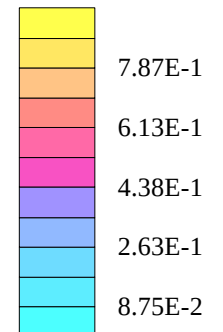
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, Ant G, 6-16-00.DA3

Powerdrift: 0.01 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch25

SAR (1g): 1.28 [mW/g] $\pm$ 0.04 dB, SAR (10g): 0.758 [mW/g] $\pm$ 0.07 dB

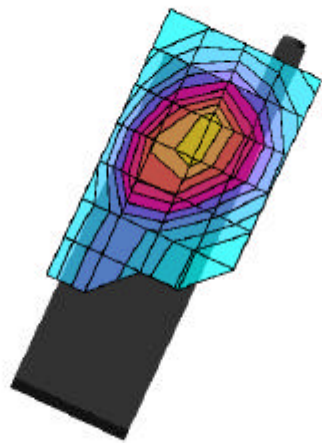
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

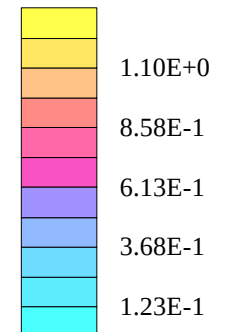
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, Ant G, 6-16-00.DA3

Powerdrift: 0.19 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch25

SAR (1g): 1.21 [mW/g] ± 0.01 dB, SAR (10g): 0.716 [mW/g] ± 0.05 dB

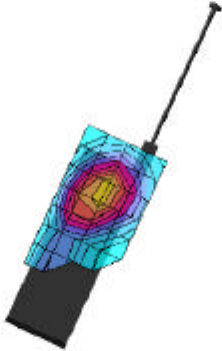
Generic Twin Phantom; Left Hand Section

Probe: ET3DV5 - SN1348; ConvF(5.00,5.00,5.00)

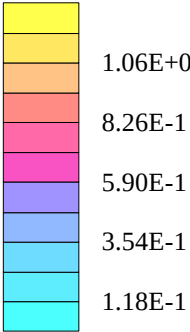
brain 1800 MHz: $\sigma = 1.68$ [mho/m] $\epsilon_r = 40.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, Ant G, 6-16-00.DA3

Powerdrift: -0.00 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch383, Waist SAR with KWC belt clip

SAR (1g): 0.803 [mW/g] ± 0.07 dB, SAR (10g): 0.540 [mW/g] ± 0.01 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.2$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch383, waist, Ant G, 6-20-00.DA3

Powerdrift: 0.01 dB



QCP-2035, #0437, FM ch383, Waist SAR with KWC belt clip

SAR (1g): 0.491 [mW/g] $\pm$ 0.02 dB, SAR (10g): 0.333 [mW/g] $\pm$ 0.05 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.2$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch383, waist, Ant G, 6-20-00.DA3

Powerdrift: 0.01 dB



QCP-2035, #0437, FM ch799, Waist SAR with KWC belt clip

SAR (1g): 0.925 [mW/g] $\pm$ 0.09 dB, SAR (10g): 0.597 [mW/g] $\pm$ 0.01 dB

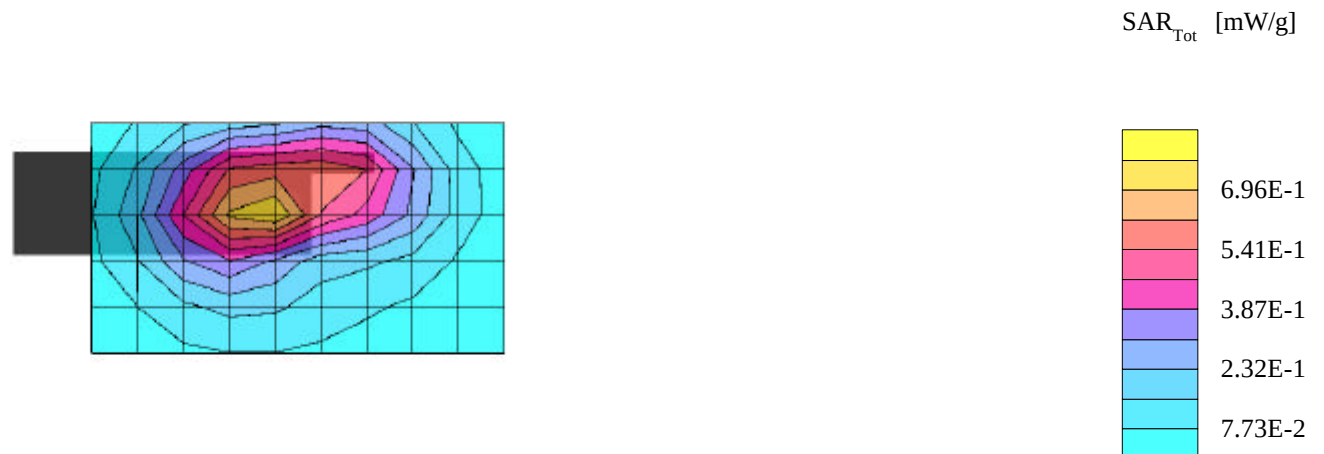
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: σ = 0.94 [mho/m] ϵ_r = 56.2 ρ = 1.00 [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch799, waist, Ant G, 6-20-00.DA3

Powerdrift: -0.05 dB



QCP-2035, #0437, FM ch799, Waist SAR with KWC belt clip

SAR (1g): 0.809 [mW/g] $\pm$ 0.01 dB, SAR (10g): 0.553 [mW/g] $\pm$ 0.09 dB

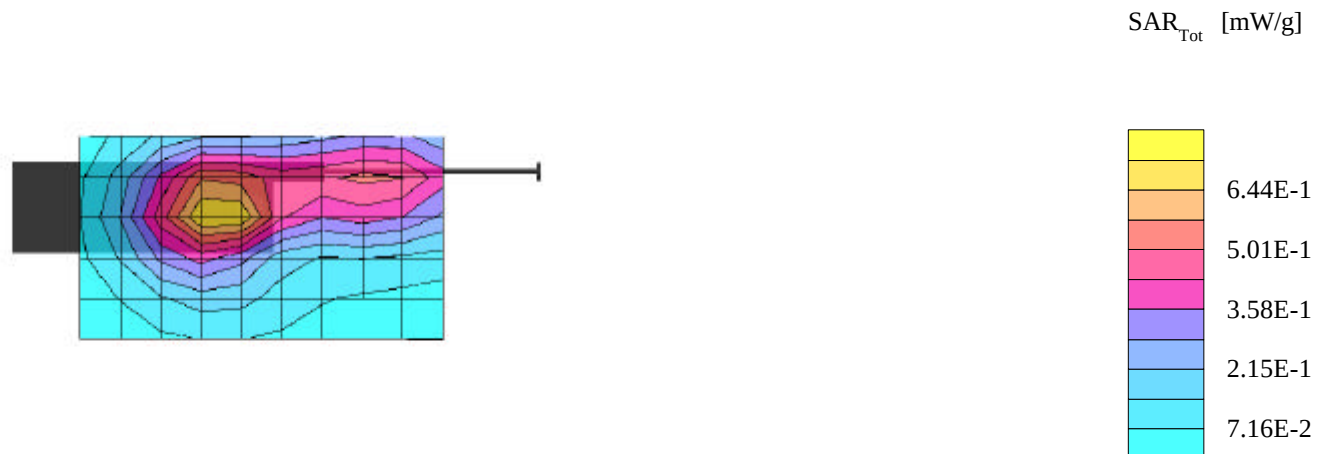
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.2$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch799, waist, Ant G, 6-20-00.DA3

Powerdrift: -0.02 dB



QCP-2035, #0437, FM ch991, Waist SAR with KWC belt clip

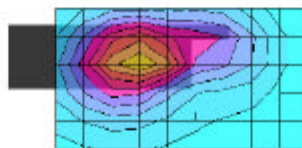
SAR (1g): 0.684 [mW/g] $\pm$ 0.06 dB, SAR (10g): 0.481 [mW/g] $\pm$ 0.11 dB

Generic Twin Phantom; Flat Section

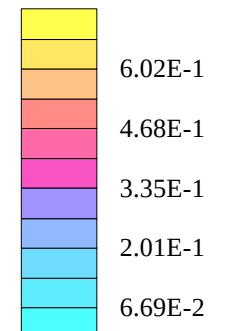
Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.2$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch991, waist, Ant G, 6-20-00.DA3



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch991, Waist SAR with KWC belt clip

SAR (1g): 0.694 [mW/g] $\pm$ 0.16 dB, SAR (10g): 0.492 [mW/g] $\pm$ 0.15 dB

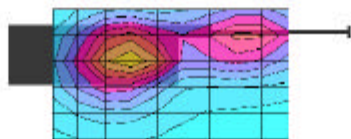
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

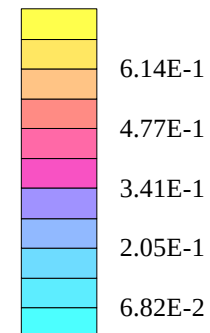
Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.2$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch991, waist, Ant G, 6-20-00.DA3

Powerdrift: -0.03 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch25, Waist SAR with KWC belt clip

SAR (1g): 0.236 [mW/g] $\pm$ 0.13 dB, SAR (10g): 0.131 [mW/g] $\pm$ 0.06 dB

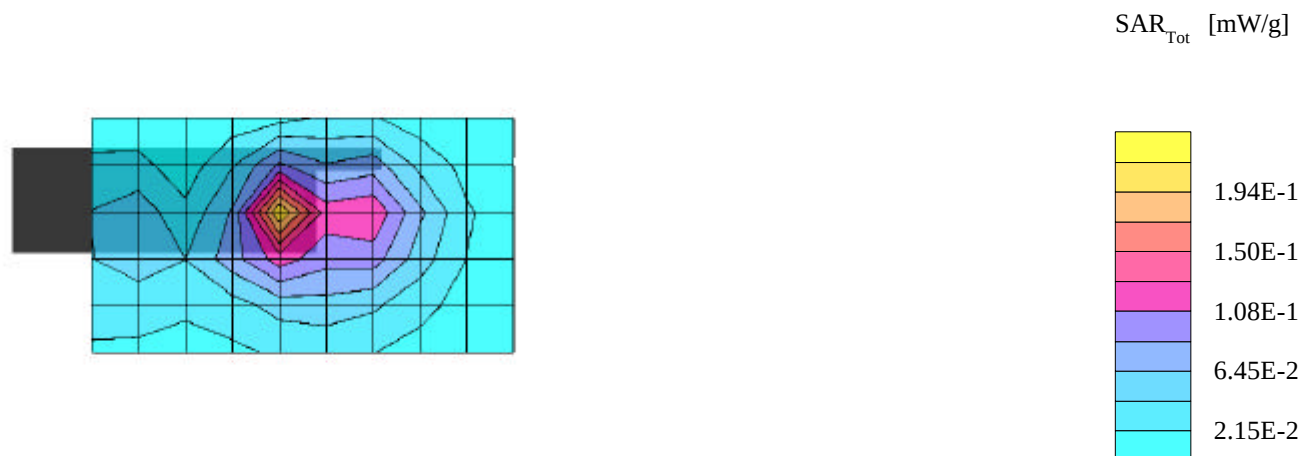
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, waist, Ant G, 6-19-00.DA3

Powerdrift: -0.10 dB



QCP-2035, #0437, PCS ch25, Waist SAR with KWC belt clip

SAR (1g): 0.304 [mW/g] $\pm$ 0.17 dB, SAR (10g): 0.167 [mW/g] $\pm$ 0.05 dB

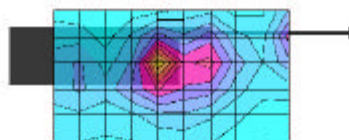
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

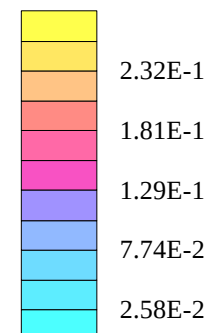
Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, waist, Ant G, 6-19-00.DA3

Powerdrift: 0.01 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch1175, Waist SAR with KWC belt clip

SAR (1g): 0.222 [mW/g] $\pm$ 0.16 dB, SAR (10g): 0.119 [mW/g] $\pm$ 0.09 dB

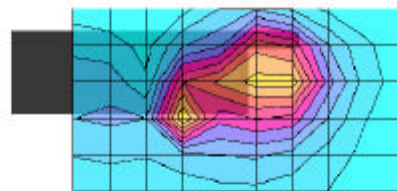
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

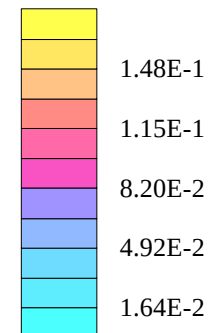
Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, waist, Ant G, 6-19-00.DA3

Powerdrift: -0.19 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, PCS ch1175, Waist SAR with KWC belt clip

SAR (1g): 0.214 [mW/g] $\pm$ 0.10 dB, SAR (10g): 0.128 [mW/g] $\pm$ 0.13 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, waist, Ant G, 6-19-00.DA3

Powerdrift: -0.03 dB



QCP-2035, #0437, PCS ch25, Waist SAR with KWC belt clip

SAR (1g): 0.347 [mW/g] $\pm$ 0.27 dB, SAR (10g): 0.184 [mW/g] $\pm$ 0.19 dB

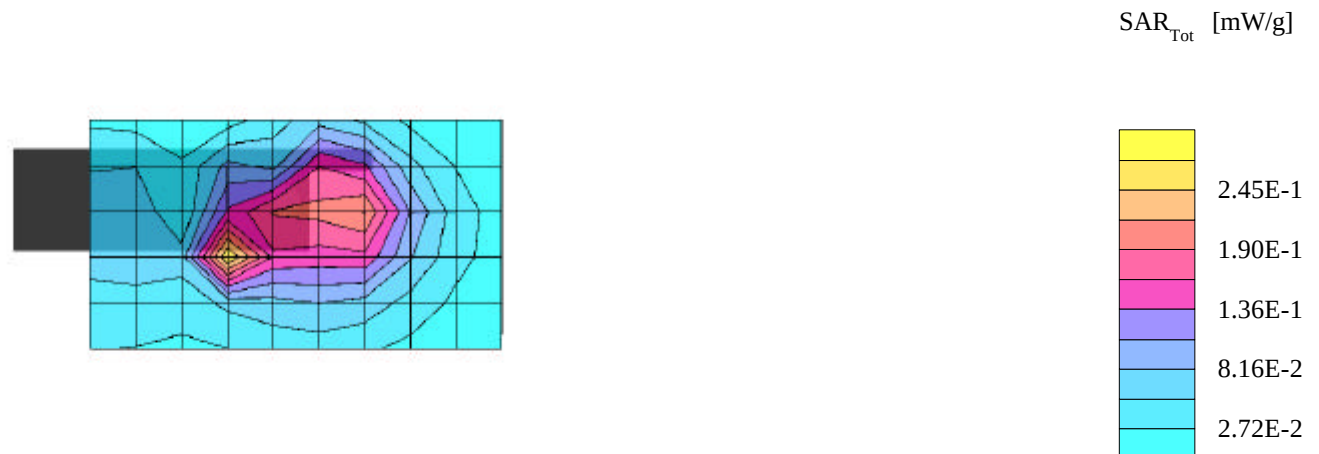
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, waist, Ant G, 6-20-00.DA3

Powerdrift: 0.04 dB



QCP-2035, #0437, PCS ch25, Waist SAR with KWC belt clip

SAR (1g): 0.358 [mW/g] $\pm$ 0.13 dB, SAR (10g): 0.193 [mW/g] $\pm$ 0.15 dB

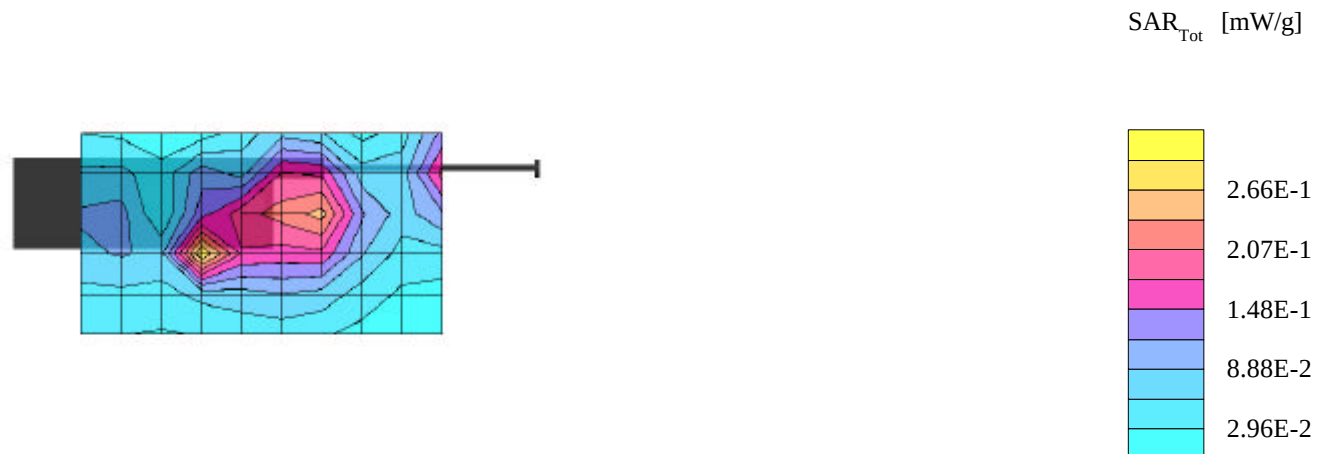
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.56$ [mho/m] $\epsilon_r = 54.4$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, waist, Ant G, 6-20-00.DA3

Powerdrift: 0.12 dB



QCP-2035, #0437, PCS ch600, Waist SAR with 2.3cm air gap

SAR (1g): 0.237 [mW/g] $\pm$ 0.17 dB, SAR (10g): 0.144 [mW/g] $\pm$ 0.13 dB

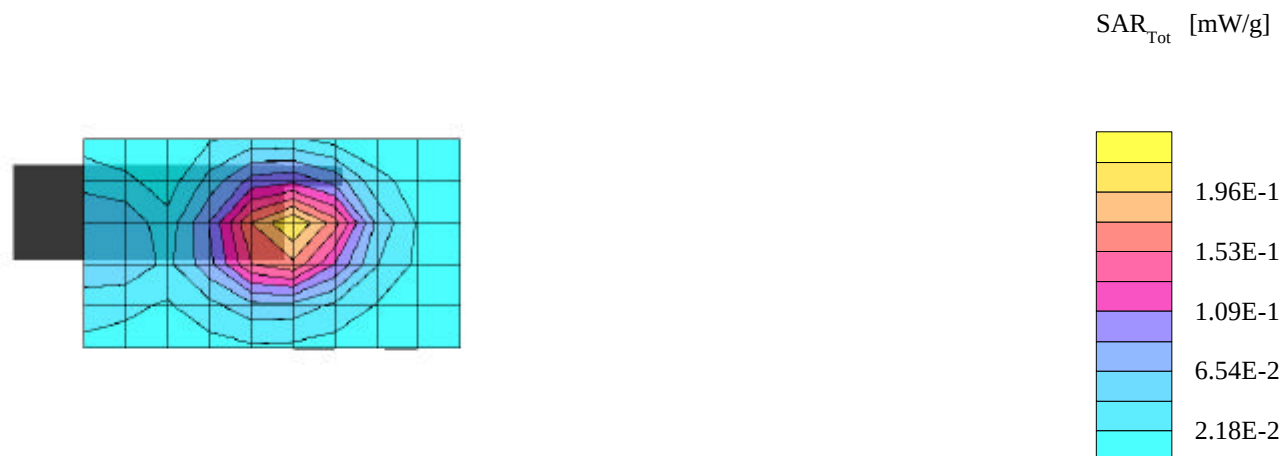
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.57$ [mho/m] $\epsilon_r = 54.6$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.05 dB



QCP-2035, #0437, PCS ch600, Waist SAR with 2.3cm air gap

SAR (1g): 0.322 [mW/g] $\pm$ 0.16 dB, SAR (10g): 0.195 [mW/g] $\pm$ 0.11 dB

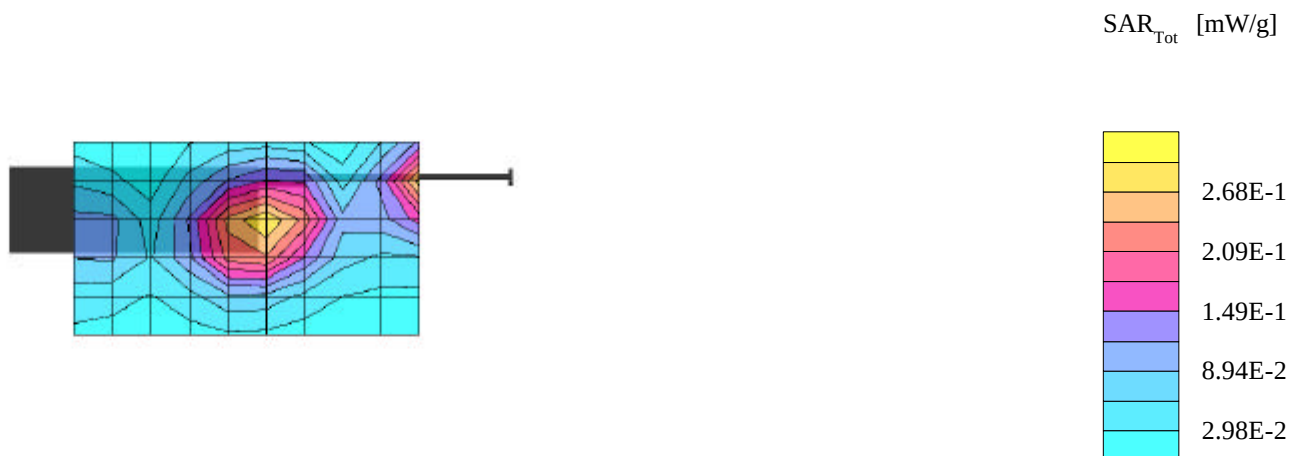
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.57$ [mho/m] $\epsilon_r = 54.6$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch600, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.21 dB



QCP-2035, #0437, PCS ch1175, Waist SAR with 2.3cm air gap

SAR (1g): 0.289 [mW/g] $\pm$ 0.21 dB, SAR (10g): 0.172 [mW/g] $\pm$ 0.16 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.57$ [mho/m] $\epsilon_r = 54.6$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.04 dB



QCP-2035, #0437, PCS ch1175, Waist SAR with 2.3cm air gap

SAR (1g): 0.343 [mW/g] $\pm$ 0.23 dB, SAR (10g): 0.205 [mW/g] $\pm$ 0.15 dB

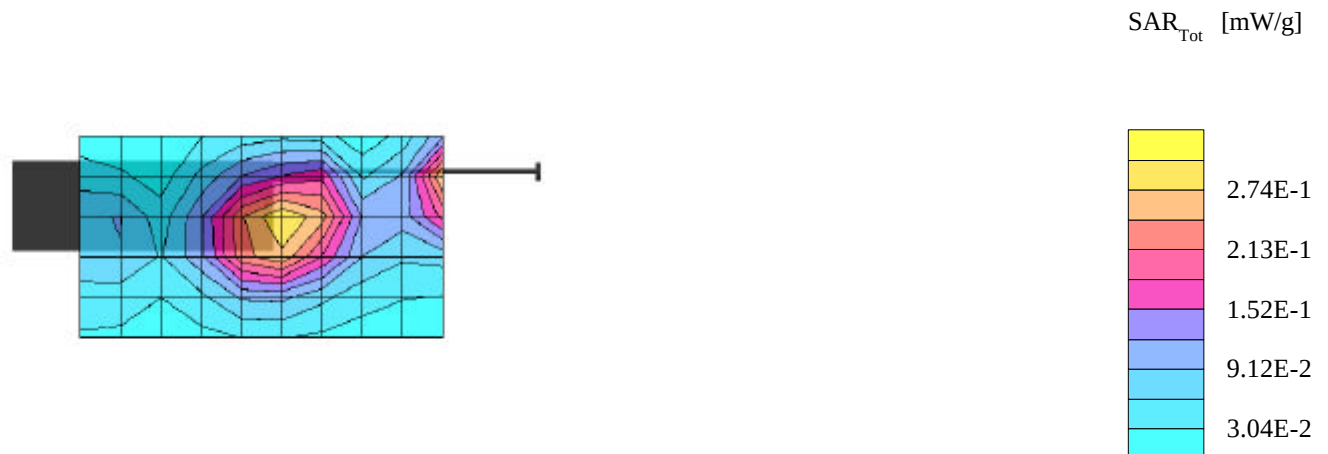
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.57$ [mho/m] $\epsilon_r = 54.6$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch1175, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.27 dB



QCP-2035, #0437, PCS ch25, Waist SAR with 2.3cm air gap

SAR (1g): 0.541 [mW/g] $\pm$ 0.18 dB, SAR (10g): 0.327 [mW/g] $\pm$ 0.11 dB

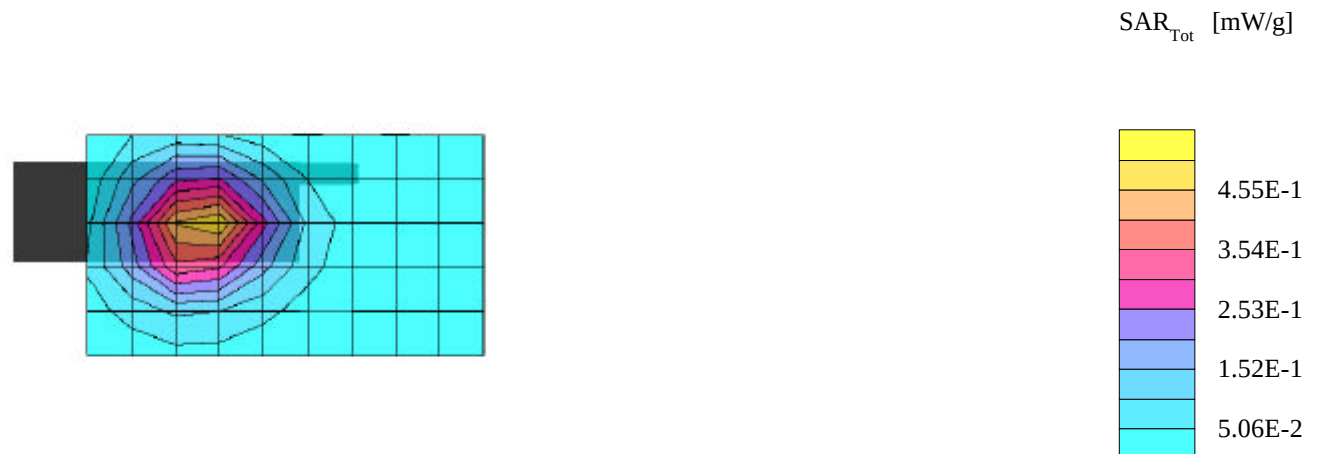
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.55$ [mho/m] $\epsilon_r = 54.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, waist 2.3cm, Ant G, 6-28-00.DA3

Powerdrift: 0.16 dB



QCP-2035, #0437, PCS ch25, Waist SAR with 2.3cm air gap

SAR (1g): 0.535 [mW/g] $\pm$ 0.18 dB, SAR (10g): 0.321 [mW/g] $\pm$ 0.14 dB

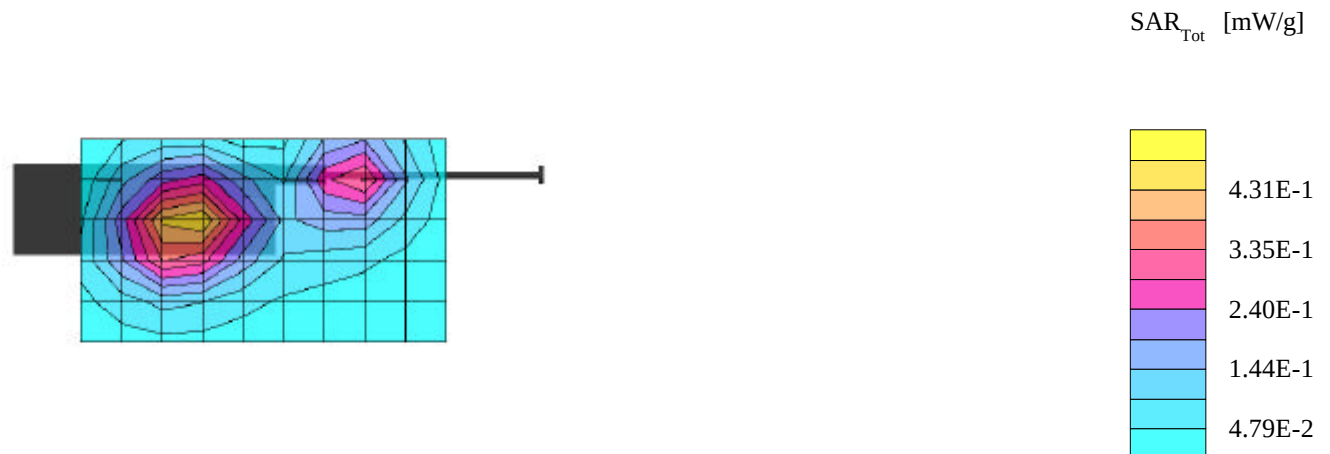
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50)

Muscle 1800 MHz: $\sigma = 1.55$ [mho/m] $\epsilon_r = 54.9$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, PCS ch25, waist 2.3cm, Ant G, 6-28-00.DA3

Powerdrift: -0.01 dB



QCP-2035, #0437, FM ch383, Waist SAR with 2.3cm air gap

SAR (1g): 0.679 [mW/g] $\pm$ 0.00 dB, SAR (10g): 0.501 [mW/g] $\pm$ 0.08 dB

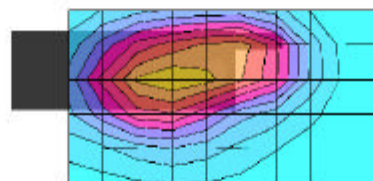
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

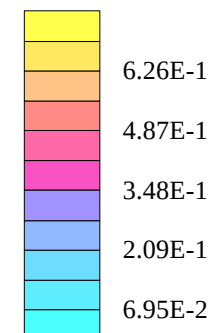
Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch383, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.30 dB



SAR_{Tot} [mW/g]



QCP-2035, #0437, FM ch383, Waist SAR with 2.3cm air gap

SAR (1g): 0.669 [mW/g] $\pm$ 0.19 dB, SAR (10g): 0.473 [mW/g] $\pm$ 0.17 dB

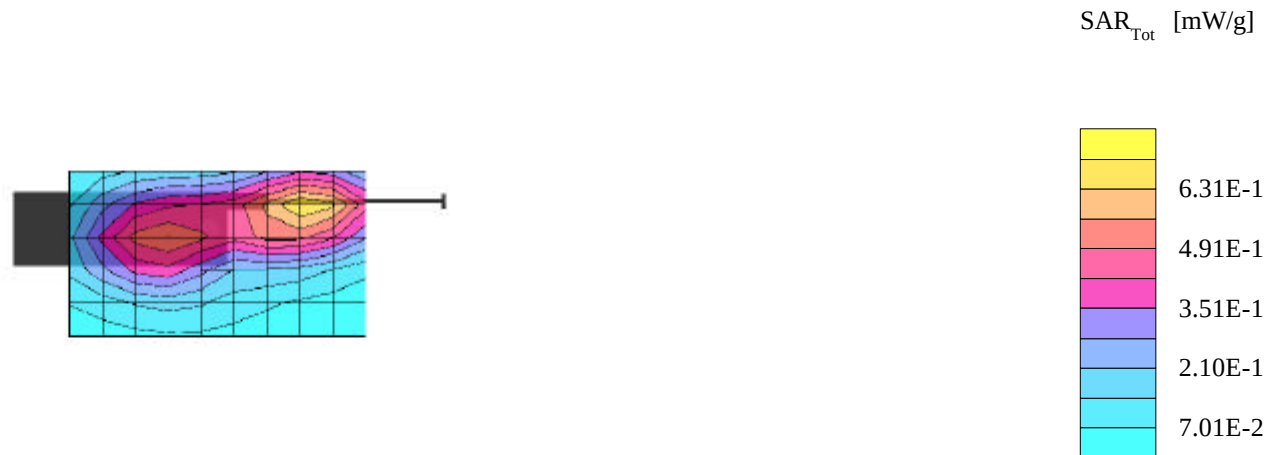
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch383, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: 0.00 dB



QCP-2035, #0437, FM ch799, Waist SAR with 2.3cm air gap

SAR (1g): 1.24 [mW/g] $\pm$ 0.09 dB, SAR (10g): 0.916 [mW/g] $\pm$ 0.12 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch799, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.14 dB



QCP-2035, #0437, FM ch799, Waist SAR with 2.3cm air gap

SAR (1g): 1.11 [mW/g] $\pm$ 0.17 dB, SAR (10g): 0.807 [mW/g] $\pm$ 0.17 dB

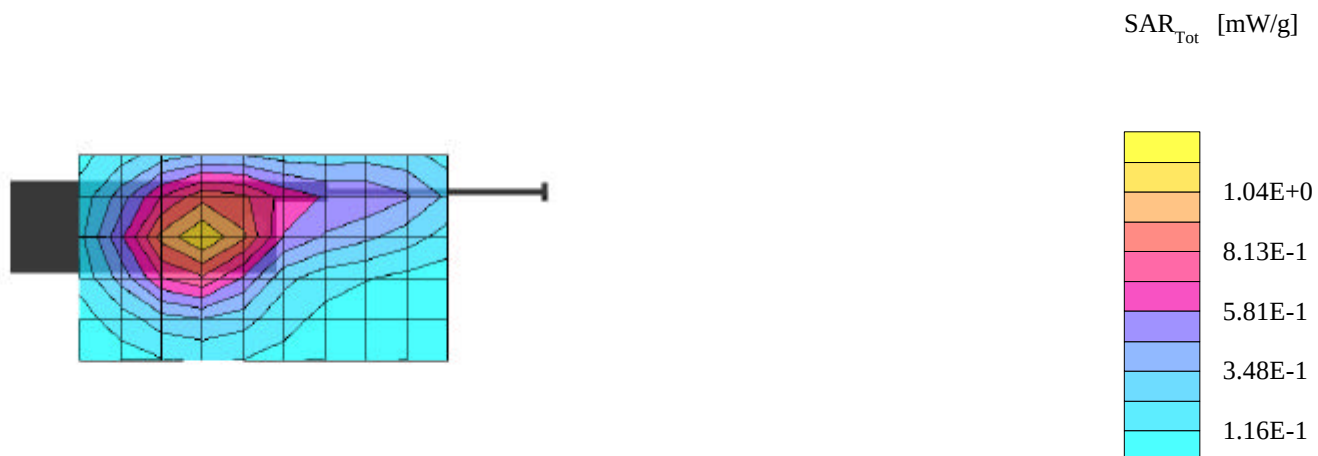
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch799, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.10 dB



QCP-2035, #0437, FM ch991, Waist SAR with 2.3cm air gap

SAR (1g): 1.17 [mW/g] $\pm$ 0.17 dB, SAR (10g): 0.855 [mW/g] $\pm$ 0.20 dB

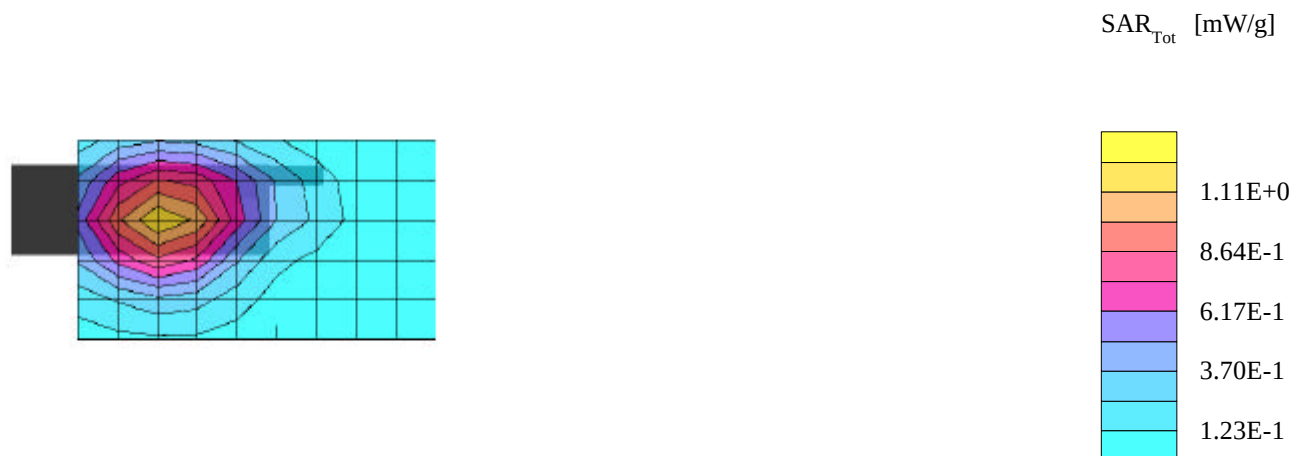
Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch991, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.12 dB



QCP-2035, #0437, FM ch991, Waist SAR with 2.3cm air gap

SAR (1g): 1.48 [mW/g] $\pm$ 0.20 dB, SAR (10g): 1.08 [mW/g] $\pm$ 0.20 dB

Generic Twin Phantom; Flat Section

Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72)

Muscle 900MHz: $\sigma = 0.94$ [mho/m] $\epsilon_r = 56.1$ $\rho = 1.00$ [g/cm³]

File Name: 6GP P4B_5, #0437, FM ch991, waist 2.3cm, Ant G, 6-27-00.DA3

Powerdrift: -0.01 dB

