Re: Applicant: FCC ID: 731 Confirmation Number: Class 2 change request Kyocera Wireless Corp OVFQCP-2035 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 OVFQCP-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	e change (Response to a request by Linda Elliott)
Applicant:		Kyocera Wireless Corp
FCC ID:		OVFQCP-2035
Correspondence Refe	rence Number:	14936
731 Confirmation Nu	mber:	EA98058
Date of Original E-ma	ail:	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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	Kyocera Wireless Corp.		
Document		Issue No:	Date
	SAR RECONFIRMATION TEST	1	June 2000
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2	SAR TEST FACILITY	3
1	PURPOSE	

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	Kyocera Wireless Corp.		
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	QCP-2035		3

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: OVFQCP-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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Equipment QCP-2035	Page Number	4

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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	QCP-2035		5

New SAR Configuration

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

<u>Front</u>



<u>Back</u>



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	Kyocera Wireless Corp.		
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Shroud with copper sticker



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Back Housing with metal bracket



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Metal Bracket



<u>Bottom</u>



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All broads (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.

Mode/band		Max. conducted output power
An	alog (FM) / cellular band	571.5 mW
Digit	al (CDMA) / cellular band	457.1 mW
	Digital (CDMA) / PCS	208.9 mW

Table 6-1: Maximum conducted output power

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	Kyocera Wireless Corp.		
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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)	SAR (mW/g)
	(antenna retracted)	(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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	Kyocera Wireless Corp.		
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5	SAR RECONFIRMATION TEST	1	June 2000
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7 TISSUE PARAMENTS 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.

	Frequency	Permittivity	Conductivity	Notes
			(S/m)	
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.

PARAMETERS OF BRAIN AND MUSCLE TISSUE

Company		Document No.	
	Kyocera Wireless Corp.		
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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, Taget Vaule = 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





 $\begin{array}{l} SAR \ (1g): \ 0.391 \ \ [mW/g] \pm 0.23 \ dB, \ SAR \ (10g): \ 0.197 \ \ [mW/g] \pm 0.27 \\ Generic \ Twin \ Phantom; \ Flat \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.00, 5.00, 5.00) \\ brain \ 1800 \ MHz: \ \sigma = 1.68 \ \ [mho/m] \ \epsilon_r = 40.9 \ \rho = 1.00 \ \ [g/cm^3] \\ File \ Name: \ ValidationFlat \ 1800 \ MHz \ 6-16-00. DA3 \\ Powerdrift: \ -0.05 \ dB \\ \end{array}$







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Dielectric data sheets

Referen	nce.math : OFF	Title: 6-19-00)
	Frequency	Data	Data
Pt#	(GHz)	real	imag
2011	(GIIL)	ICUI	Turag
1	0 10000000	66 55	3 99
2	0 114500000	66 34	1 32
2	0.12000000	66 12	4.52
3	0.143500000	00.13	4.45
4	0.143500000	65.92	4.38
5	0.138000000	65.82	4.pl
6	0.1/2500000	65./1	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	0.27400000	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	0.39000000	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 25
41	0 680000000	61 72	9.18
42	0 694500000	61 64	9 62
43	0.709000000	61 47	9.02
44	0.723500000	61 43	9 8/
45	0 738000000	61 29	9.04 9.95
46	0.752500000	61 14	10 03
47	0 76700000	61 07	10.12
48	0 781500000	61 02	10.12
49	0 79600000	60 89	10.20
50	0.81050000	60.05	10.30
51	0.82500000	60.70	10.40
52	0.839500000	60.00	10.00
53	0.055500000	60.49	10.70
00	0.034000000	00.40	TO'10

1800MHZ Muscle tissue

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4-1

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	0.97000000	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	14.00
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	14.30
98	1 506500000	56.16	1/ //
99	1 521000000	56 09	1/ /7
100	1 535500000	56 03	11 51
101	1.55000000	55.03	14.54
102	1 564500000	55 07	14.09
103	1 579000000	55.07	
104	1 502500000	55 72	14.1/
105	1.60000000	JJ.12	14.00
106	1.608000000	33.6Z	14.09
107	1.622500000	55.56	14.96
100	1.637000000	55,43	15.03
100	1.651500000	55.34	15.12
109	F.00000000	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-	= 0 = 1.56 mhg/m)
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	and the second
143	2.159000000	52.47	16.79	
144	2.173500000	52.40	16.83	
145	2.188000000	52.32	16.86	
140	2.202500000	52.24	16.92	
14/	2.217000000	52.17	16.98	
140	2.231500000	52.10	16.96	
145	2.246000000	52.03	17.05	
150	2.260500000	51.95	17.07	
152	2.2/5000000	51.89	17.12	
153	2.289500000	51.82	17.17	
154	2.304000000	51./6	17.20	
155	2.318500000	51.64	17.26	
156	2.333000000	51.59	17.28	
156	2.34/500000	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	
1.61	2.405500000	51.25	17.51	
160	2.420000000	51.20	17.53	
162	2.434500000	51.12	17.55	
103	2.449000000	51.05	17.56	
104	2.463500000	51.00	17.63	
165	2.4/8000000	50.92	17.68	
100	2.492500000	50.88	17.70	
101	2,507000000	50.79	17.76	

Refere	nce math : OFF	Title: 6-20-	00
Rererc	Frequency	Data	Data
D+#	(CHz)	real	tan d
r L ff	(GIIZ)	TCGT	cuir a
1	0 10000000	65 52	0 990
Ţ	0.10000000	65.JZ	0.075
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
1.0	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
14	0.20000000	62.24	0.439
1.0	0.313500000	61 01	0 429
10	0.31/500000	01,01	0.420
17	0.332000000	01.73 C1 FC	0.410
18	0.346500000	61.56	0.411
19	0.361000000	61.36	0.403
20	0.375500000	61.25	0.393
21	0.39000000	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
22	0.549900000	59.55	0 346
24	0.579500000	59.10	0.344
24	0.578500000	50.03	0 342
30	0.595000000	50.55	0 3/1
20	0.607500000	50.72	0.341
37	0.622000000	50,05	0.340
38	0.636500000	50.52	0.330
39	0.651000000	58.35	0.330
40	0.665500000	58.20	0.337
41	0.68000000	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
52	0.854000000	56.61	0.333
	3.00100000		

900 MHZ Muscle tissue

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Cal.

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					. •
54		0.868500000	56.48	0.332	
55		0.883000000	56.34	0.333	
56		0.897500000	56.20	0.333-	0=0.94 mh
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	1
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		1.34/00000	52.90	0.353	
88		1.361500000	52.11	0.354	
89		1.376000000	5∠.65 E2 EE	0.355	
90		1.390500000	52.33	0.330	
91		1 4105000000	52.41	0.357	
92		1.419500000	52.59	0.350	
93		1 448500000	52.25	0.360	
94		1 463000000	52.15	0.361	
95		1 477500000	51 90	0 362	
90		1 492000000	51 82	0.363	
		1 506500000	51 70	0.362	
90		1 52100000	51 72	0.363	
100		1 535500000	51 65	0.363	
100		1 55000000	51.52	0.363	
102		1 564500000	51 46	0.365	
102		1 57900000	51 36	0.366	
103		1 593500000	51 28	0 368	
105		1 60800000	51 22	0.360	
105		1 622500000	51 17	0.309	
107	. ¹ 4	1 637000000	51 07	0.309	
100		1 651500000	50 9/	0.371	
100		1 66600000	50.94	0.372	
110		1 680500000	50.04	0.375	
TIO		+.000000000	50.09	0.010	
		the second second			
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Refere	ence math : OFF	Title: 6-27-0	00			C-1
	Frequency	Data	Data			
Pt#	(GHz)	real	imaq			
		영금 영상 문화가 없다.	,			
1	0.10000000	66.12	64.60			
2	0 114500000	66 12	56.81	Q. Mail	NA I I	
2	0 129000000	65 92	51 55	2001-1115	Muscle tissue	Cal
Λ.	0.143500000	65 50	47 32			
т. Б	0.15900000	65 14	47.52			
5	0.172500000	64 70	40.40			
20	0.172300000	64.70	40.49			
	0.187000000	04.03	26.12			
8	0.201500000	64.08	30.12			
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	0.39000000	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	0.50600000	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			. 1
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			1
40	0.665500000	58.11	19.30			
41	0.68000000	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		gala de constante de la constante de	
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			

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				1. C.
54	0.868500000	56.21	18.55	
55	0.883000000	56.12	18.47	
56	0.897500000	56.05	10 40	5=0.94 mhg/m)
58	0.912000000	55 84	18 43	
59	0.920500000	55 67	18 42	
60	0.955500000	55.52	18.43	
61	0.97000000	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	1.0/1500000	54.70	18.44	
69	1 100500000	54.64	10.41	
70	1 11500000	54.JI	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	1.26000000	53.41	18.4/	
82	1.274500000	53.31	10.40	
84	1 303500000	53.24	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./3	
93	1.434000000	52.41	18.77	
94	1 46300000	52.57	10.00	
96	1 477500000	52.20	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	1.5/9000000	51.61	18.92	
104	1.593500000	51.54	18.91	
105	1.000000000	51.5U	18 05	
107	1 637000000	51 20	18 96	
108	1.651500000	51.32	18.96	
109	1.666000000	51.26	19.00	
110	1.680500000	51.20	18.99	and the second sec
		N. A.		

			1
Poference math . OFF	Titles 6 27	0.01-	
Frequency	TILLE: 0-2/-	Data	
P+# (CH7)	Dala	Data	
	rear	Imag	
1 0.10000000	66 35	3 71	
2 0.114500000	66.11	3.75	18
3 0.129000000	66.34	4.08	10
4 0.143500000	66.43	4.28	0
5 0.158000000	66.11	4.21	La
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 0.36100000	64.19	6.25	
20 0.375500000	64.10	6.34	
21 0.390000000	63.15	6.44	
22 0.404500000	63.63	6.61	
24 0 433500000	63 20	7 05	
25 0 44800000	63 11	7.05	
26 0.462500000	63 01	7.10	
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 0.753500000	60.70	9.45	
40 0.752500000	60.59	9.56	
4/ 0.70100000	0U.44	9.68	
49 0 70600000	60 20	9.83	
50 0.81050000	60 07	9.09	
51 0.82500000	60.07	9.99 10 11	
52 0.839500000	59 29	10.11	
53 0.85400000	59 84	10.24	
	JJ.U1	TA.52	

1800 MHz Muscle tissue

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540.868500000 59.73 10.41 55 0.88300000 59.63 10.51 56 0.997500000 59.61 10.64 57 0.912000000 59.47 10.70 58 0.926500000 59.43 10.77 59 0.94100000 59.31 10.89 60 0.95550000 59.18 10.95 61 0.97000000 59.07 11.08 62 0.98450000 59.02 11.18 63 0.99900000 58.94 11.26 64 1.013500000 58.82 11.39 65 1.02800000 58.62 11.59 67 1.05700000 58.66 11.62 68 1.071500000 58.56 11.77 69 1.08600000 58.41 11.84 70 1.10500000 58.10 12.08 71 1.1500000 58.10 12.08 73 1.14400000 58.02 12.18 74 1.5850000 57.79 12.36 76 1.20200000 57.65 12.53 78 1.216500000 57.43 12.75 79 1.23100000 57.64 13.20 82 1.274500000 57.64 13.20 84 1.30350000 57.64 13.20 84 1.30350000 57.64 13.20 84 1.30350000 57.64 13.20 84 1.3050000 57.64 13.20 84 1.3050000 57.64 13.25 90 1.39600000 57.6				
34 0.868500000 59.73 10.41 55 0.88300000 59.63 10.51 56 0.97500000 59.47 10.70 58 0.92650000 59.43 10.77 59 0.941000000 59.31 10.89 60 0.955500000 59.18 10.95 61 0.970000000 59.02 11.18 62 0.984500000 59.02 11.18 63 0.999000000 58.94 11.26 64 1.013500000 58.82 11.39 65 1.028000000 58.66 11.59 67 1.057000000 58.56 11.62 68 1.071500000 58.56 11.62 68 1.071500000 58.511 12.96 71 1.100500000 58.10 12.06 72 1.229500000 58.10 12.06 73 1.144000000 58.02 12.18 74 1.158500000 57.70 12.33 75 1.173000000 57.70 12.43 77 1.202000000 57.43 12.75 81 1.26000000 57.25 12.90 83 1.28900000 57.25 12.90 84 1.303500000 57.16 13.12 85 1.318000000 57.25 12.90 84 1.332500000 57.71 13.63 91 1.434000000 56.53 13.68 94 1.434000000 56.53 13.66	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	- 11. Level - 1		
55 0.883000000 59.63 10.51 56 0.926500000 59.43 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 59.02 11.18 63 0.999000000 58.94 11.26 64 1.013500000 58.62 11.39 65 1.028000000 58.56 11.62 66 1.042500000 58.56 11.62 67 1.057000000 58.56 11.62 68 1.071500000 58.56 11.62 69 1.086000000 58.31 11.95 71 1.100500000 58.31 11.95 71 1.105500000 58.10 12.08 73 1.144000000 58.02 12.318 74 1.58500000 57.79 12.36 75 1.773000000 57.79 12.36 76 1.187500000 57.43 12.75 81 1.260000000 57.43 12.75 81 1.289000000 57.20 13.02 84 1.303500000 57.04 13.26 85 1.348000000 57.20 13.02 86 1.332500000 57.04 13.26 87 1.347000000 56.78 13.20 86 1.332500000 57.04 13.26 87 1.39500000 56.72 13.63 99 1.376000000 <td< td=""><td>10.41</td><td>59.73</td><td>0.868500000</td><td>54</td></td<>	10.41	59.73	0.868500000	54
36 0.897500000 59.47 10.70 57 0.926500000 59.47 10.70 58 0.926500000 59.43 10.77 59 0.941000000 59.18 10.95 61 0.970000000 59.18 10.95 61 0.970000000 59.07 11.08 62 0.984500000 58.94 11.26 64 1.013500000 58.682 11.39 65 1.028000000 58.682 11.59 67 1.057000000 58.681 1.59 67 1.057000000 58.681 11.62 68 1.071500000 58.611 11.84 70 1.106500000 58.411 11.84 70 1.106500000 58.2112000 22.08 71 1.112500000 58.1012208 $7.79122.36$ 74 1.168500000 $57.793122.33$ 75 1.173000000 $57.70122.43$ 77 1.220000000 $57.43122.75$ 81 1.245500000 $57.43122.75$ 81 1.245000000 $57.43322.75$ 81 1.245000000 $57.43322.75$ 81 1.245000000 $57.43322.75$ 81 1.245000000 $57.43322.75$ 82 1.274500000 $57.66122.53$ 79 1.231000000 $57.6612.2310.20$ 84 1.303500000 $57.0613.20$ 86 1.332500000 $57.0613.20$ 86 1.347000000 $56.7713.74$ 1.289000	10.51	59.63	0.883000000	55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.64	59.61	0.897500000	56
58 0.926500000 59.31 10.89 59 0.941000000 59.31 10.89 60 0.955500000 59.07 11.08 61 0.970000000 58.07 11.26 64 1.013500000 58.94 11.26 64 1.02800000 58.68 11.59 65 1.02800000 58.68 11.59 67 1.057000000 58.68 11.59 67 1.0657000000 58.56 11.62 68 1.071500000 58.56 11.62 71 1.105500000 58.10 12.77 72 1.229500000 58.10 12.08 73 1.144000000 58.02 12.18 74 1.158500000 57.93 12.236 76 1.187500000 57.79 12.36 76 1.245500000 57.43 12.75 81 1.26500000 57.43 12.75 81 1.26500000 57.20 13.02 84 1.303500000 57.66 13.20 84 1.303500000 57.06 13.20 86 1.332500000 57.716 13.12 86 1.332500000 56.73 13.63 90 1.39050000 56.73 13.63 91 1.40500000 56.73 13.63 92 1.419500000 56.73 13.78 93 1.434000000 56.73 13.74 92 1.492000000 56.73 13.6	10.70	59.47	0.912000000	57
59 0.941000000 59.18 10.89 60 0.955500000 59.18 10.95 61 0.97000000 59.07 11.08 62 0.994500000 58.02 11.18 63 0.99900000 58.94 11.26 64 1.01350000 58.68 11.59 65 1.02800000 58.75 11.49 66 1.042500000 58.68 11.59 67 1.05700000 58.56 11.62 68 1.071500000 58.50 11.77 69 1.08600000 58.10 12.08 71 1.11500000 58.21 12.00 72 1.129500000 58.10 12.08 73 1.144000000 57.93 12.23 75 1.173000000 57.79 12.36 76 1.187500000 57.79 12.36 77 1.202000000 57.43 12.75 81 1.226000000 57.43 12.75 81 1.26000000 57.25 12.90 83 1.289000000 57.16 13.12 84 1.303500000 57.06 13.20 84 1.303500000 57.70 13.22 85 1.318000000 57.25 12.90 83 1.289000000 57.25 12.90 84 1.303500000 57.26 13.22 85 1.318000000 57.25 12.90 86 1.32500000 56.72 13.63 91 1.49500000 56.72 <	10.77	59.43	0.926500000	58
60 0.955500000 59.18 10.95 61 0.97000000 59.07 11.08 62 0.98450000 58.02 11.18 63 0.99900000 58.94 11.26 64 1.01350000 58.82 11.39 65 1.02800000 58.75 11.49 66 1.042500000 58.56 11.62 67 1.05700000 58.56 11.62 68 1.071500000 58.51 11.77 69 1.086000000 58.31 11.95 71 1.11500000 58.21 12.00 72 1.129500000 58.10 12.08 73 1.144000000 58.02 12.18 74 1.158500000 57.79 12.236 76 1.187500000 57.65 12.53 76 1.220000000 57.49 12.665 79 1.231000000 57.49 12.665 79 1.231000000 57.25 12.90 83 1.289000000 57.20 13.02 84 1.332500000 57.16 13.12 85 1.318000000 57.704 13.26 86 1.332500000 56.78 13.52 90 1.390500000 56.78 13.52 90 1.390500000 56.78 13.52 90 1.390500000 56.78 13.52 90 1.390500000 56.79 14.36 94 1.448000000 56.53 14.1	10.89	59.31	0.941000000	59
61 0.970000000 59.07 11.08 62 0.994500000 59.02 11.18 63 0.99900000 58.94 11.26 64 1.013500000 58.94 11.26 64 1.02800000 58.68 11.59 65 1.02800000 58.68 11.59 67 1.05700000 58.68 11.62 68 1.071500000 58.50 11.77 69 1.08600000 58.41 11.84 70 1.10050000 58.21 12.00 72 1.129500000 58.10 12.08 73 1.14400000 58.02 12.18 74 1.158500000 57.79 12.36 76 1.177000000 57.79 12.36 76 1.216500000 57.43 12.75 78 1.226000000 57.25 12.90 81 1.26000000 57.25 12.90 83 1.289000000 57.20 13.02 84 1.303500000 57.26 13.20 84 1.302500000 57.06 13.20 84 1.332500000 56.79 13.74 99 1.37600000 56.72 13.74 92 1.419500000 56.72 13.74 93 1.344000000 56.72 13.74 94 1.46500000 56.72 13.74 92 1.31600000 56.72 13.74 93 1.347000000 56.72 13.74 <	10.95	59.18	0.955500000	60
62 0.994500000 59.02 11.18 63 0.99900000 58.92 11.39 64 1.01350000 58.62 11.39 65 1.022800000 58.75 11.49 66 1.04250000 58.68 11.59 67 1.05700000 58.56 11.622 68 1.071500000 58.56 11.77 69 1.00650000 58.41 11.84 70 1.10050000 58.21 12.00 72 1.129500000 58.10 12.08 73 1.14400000 58.02 12.18 74 1.58500000 57.79 12.23 75 1.17300000 57.79 12.36 76 1.20200000 57.58 12.65 79 1.23100000 57.49 12.66 80 1.245500000 57.36 12.66 81 1.26000000 57.36 12.81 82 1.274500000 57.25 13.12 84 1.30350000 57.16 13.12 85 1.31800000 57.61 13.12 86 1.332500000 57.61 13.26 87 1.34700000 56.72 13.63 90 1.39050000 56.72 13.63 91 1.44500000 56.72 13.63 92 1.41500000 56.72 13.63 94 1.44500000 56.72 13.63 94 1.44500000 56.73 14.16	11.08	59.07	0.970000000	61
63 0.99900000 58.94 11.26 64 1.01350000 58.62 11.39 65 1.02800000 58.75 11.49 66 1.042500000 58.68 11.59 67 1.05700000 58.56 11.77 69 1.08600000 58.31 11.26 70 1.10500000 58.31 11.200000 72 1.129500000 58.10 12.08 73 1.144000000 58.02 12.18 74 1.158500000 57.79 12.36 76 1.187500000 57.70 12.43 77 1.202000000 57.65 12.66 79 1.23100000 57.43 12.75 81 1.26000000 57.36 12.66 80 1.245500000 57.36 12.81 82 1.274500000 57.20 13.02 84 1.303500000 57.16 13.20 84 1.332500000 57.16 13.20 84 1.332500000 57.16 13.20 84 1.347000000 56.72 13.63 91 1.40500000 56.72 13.63 91 1.49200000 56.72 13.63 91 1.49200000 56.23 14.10 97 1.2900000 56.77 13.46 94 1.448500000 56.10 14.24 99 1.52100000 56.77 13.63 91 1.40500000 56.79 13.63 <	11.18	59.02	0.984500000	62
641.01350000058.8211.39 65 1.0280000058.7511.49 66 1.0425000058.6611.59 67 1.0570000058.5611.62 68 1.07150000058.3111.84 70 1.1005000058.3111.95 71 1.1150000058.2112.00 72 1.1295000058.1012.08 73 1.1440000058.0212.18 74 1.585000057.9312.23 75 1.1730000057.7912.36 76 1.8750000057.6512.53 78 1.21650000057.4312.75 81 1.2600000057.3612.66 80 1.24550000057.2213.02 84 1.3035000057.2512.90 83 1.2890000057.2512.90 84 1.3035000057.0413.20 86 1.3470000057.0413.20 86 1.3470000056.7813.52 90 1.3905000056.7213.63 91 1.4050000056.7313.86 94 1.4480000056.5313.86 94 1.4340000056.3814.01 96 1.4775000056.9114.34 101 1.550000055.7714.54 102 1.6650000055.7914.34 101 1.550000055.7114.58 103 1.5790000055.7114.54 104 1.5935000	11.26	58.94	0.999000000	63
651.02800000058.7511.49661.04250000058.6611.59671.0570000058.5611.62681.07150000058.5011.77691.0860000058.4111.95711.1150000058.2112.00721.12950000058.1012.08731.1440000058.0212.18741.585000057.7912.23751.1730000057.7912.36761.2020000057.6512.53781.21650000057.6812.65791.2310000057.4912.66801.24550000057.2512.90831.2890000057.2013.02841.30350000057.1613.12851.3180000057.0413.26861.3325000057.0413.26871.36150000056.7813.52901.3905000056.7213.63911.4050000056.7213.63911.4050000056.7213.63921.4480000056.5313.86941.44850000056.2314.10971.5250000055.9114.341001.53550000055.7714.541001.53550000055.7714.541011.6600000055.7714.541021.66150000055.7114.581031.5790000055.7114.541	11.39	58.82	1.013500000	64
661.04250000058.6811.62671.0570000058.5611.62681.0715000058.5011.77691.0860000058.3111.95711.11050000058.2112.00721.12950000058.1012.08731.14400000058.0212.18741.15850000057.7912.36761.18750000057.7012.43771.20200000057.6512.53781.21650000057.4912.66801.24550000057.4912.66801.24550000057.2512.90811.26000000057.2612.81821.27450000057.2013.02841.30350000057.0613.20851.31800000057.0613.20861.33250000057.0413.26871.3470000056.7213.63901.3905000056.7213.63911.4050000056.7013.74921.41950000056.6513.78931.43400000056.3314.10961.47750000056.2314.10971.49200000055.3114.341011.5550000055.7714.541031.5790000055.7714.541041.59350000055.7714.541051.60800000055.6114.691071.63700000055.4614.80 <td>11.49</td> <td>58.75</td> <td>1.028000000</td> <td>65</td>	11.49	58.75	1.028000000	65
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.59	58.68	1.042500000	.66
681.07150000058.5011.77 69 1.0860000058.4111.84 70 1.1005000058.3111.95 71 1.1150000058.2112.00 72 1.1295000058.1012.08 73 1.1440000058.0212.18 74 1.585000057.7912.23 75 1.1730000057.7912.36 76 1.875000057.7012.43 77 1.2020000057.6512.53 78 1.21650000057.4912.66 80 1.24550000057.4312.75 81 1.2600000057.2512.90 83 1.2890000057.2013.02 84 1.30350000057.0413.26 87 1.3470000056.9413.35 88 1.36150000056.7213.63 91 1.4050000056.7213.63 91 1.4050000056.7213.63 91 1.4050000056.7313.86 94 1.44850000056.4613.93 95 1.4630000056.2314.10 97 1.5210000056.1014.24 99 1.5210000055.7714.54 100 1.53550000055.7114.58 105 1.6080000055.6114.69 100 1.53550000055.6114.69 107 1.6370000055.6414.87 100 1.66600000055.4614.87 104 1.	11.62	58.56	1.057000000	67
691.08600000058.4111.84701.1005000058.3111.95711.1150000058.2112.00721.1295000058.1012.08731.1440000058.0212.18741.1585000057.7912.23751.1730000057.7912.36761.1875000057.7012.43771.2020000057.6512.53781.21650000057.4912.66801.24550000057.4312.75811.2600000057.4312.75811.2600000057.2512.90831.2890000057.1613.12851.3180000057.0613.20861.33250000057.0413.26871.34700000056.7813.52901.39050000056.7213.63911.4050000056.7313.86941.4485000056.5313.86941.4485000056.2314.10951.4630000056.2314.16981.5065000055.9114.341001.53550000055.7714.541041.59350000055.7714.541051.6080000055.6814.651061.6225000055.7714.541041.59350000055.6114.691071.6370000055.3614.691091.66600000055.3614.93	11.77	58.50	1.0/1500000	68
701.10050000058.3111.95 71 1.11500000058.2112.00 72 1.12950000058.1012.08 73 1.1440000058.0212.18 74 1.15850000057.9312.23 75 1.17300000057.7912.36 76 1.8750000057.7012.43 77 1.20200000057.6512.53 78 1.21650000057.4912.66 80 1.24550000057.4312.75 81 1.26000000057.3612.81 82 1.27450000057.2512.90 83 1.28900000057.1613.12 84 1.30350000057.0613.20 86 1.33250000057.0413.26 87 1.34700000056.7813.52 90 1.39050000056.7213.63 91 1.4050000056.6513.74 92 1.41950000056.6513.74 92 1.4300000056.5313.86 94 1.44850000056.6114.24 99 1.5210000056.1014.24 91 1.50550000055.9114.34 100 1.53550000055.7714.54 104 1.59350000055.7714.54 104 1.59350000055.6114.69 107 1.6370000055.5314.76 108 1.65150000055.4614.80 109 1.66600000055.3614.93 <td>11.84</td> <td>58.41</td> <td>1.086000000</td> <td>69</td>	11.84	58.41	1.086000000	69
711.1150000058.2112.00 72 1.12950000058.1012.08 73 1.1440000058.0212.18 74 1.1585000057.9312.23 75 1.1730000057.7912.36 76 1.8750000057.7012.43 77 1.2020000057.6512.53 78 1.21650000057.4912.66 80 1.24550000057.4312.75 81 1.2600000057.2612.90 83 1.2890000057.2013.02 84 1.3035000057.1613.12 85 1.3180000057.0413.26 86 1.3250000057.0413.26 87 1.3470000056.7813.52 90 1.3905000056.7813.52 90 1.3905000056.7013.74 92 1.4195000056.5313.86 94 1.4485000056.4613.93 95 1.4630000056.1014.24 99 1.5210000056.2314.10 97 1.4920000056.2314.10 97 1.4920000056.5714.58 100 1.5355000055.7114.58 101 1.5645000055.6114.69 107 1.6370000055.4614.80 109 1.6600000055.4614.80 109 1.6600000055.3614.93	11.95	58.31	1.100500000	70
721.12950000058.1012.08 73 1.14400000058.0212.18 74 1.15850000057.9312.23 75 1.17300000057.7912.36 76 1.18750000057.7012.43 77 1.20200000057.6512.53 78 1.21650000057.4912.66 80 1.24550000057.4312.75 81 1.2600000057.4312.75 81 1.2890000057.2512.90 83 1.2890000057.0613.20 84 1.3035000057.0613.20 86 1.3325000057.0413.26 87 1.3470000056.9413.35 88 1.36150000056.7213.63 91 1.4050000056.7213.63 91 1.4050000056.7213.63 91 1.4340000056.3814.01 96 1.4775000056.2314.10 97 1.4920000056.3814.01 96 1.4775000056.2314.16 98 1.5065000056.1014.24 99 1.5210000055.9114.34 101 1.5935000055.7714.54 104 1.5935000055.7114.54 105 1.60800000055.6814.65 106 1.62250000055.6114.69 107 1.6370000055.3614.93	12.00	58.21	1.115000000	/1
731.14400000058.0212.13 74 1.15850000057.9312.23 75 1.1730000057.7912.36 76 1.18750000057.7012.43 77 1.2020000057.6512.53 78 1.21650000057.4912.66 80 1.2455000057.4312.75 81 1.2600000057.3612.81 82 1.2745000057.2512.90 83 1.2890000057.0613.02 84 1.3035000057.0613.20 86 1.3325000057.0413.26 87 1.3470000056.9413.35 88 1.36150000056.7813.52 90 1.3905000056.7013.74 92 1.41950000056.7013.74 92 1.41950000056.6513.78 93 1.43400000056.2314.10 97 1.4920000056.2314.16 98 1.50650000056.1014.24 99 1.5210000056.7714.34 101 1.5935000055.7714.54 103 1.5790000055.7714.54 104 1.5935000055.7114.58 105 1.6080000055.6114.69 107 1.6370000055.4214.87 109 1.6660000055.3614.93	12.08	58.10	1.129500000	72
741.1585000057.9312.23 75 1.1730000057.7912.43 76 1.875000057.7012.43 77 1.2020000057.6512.53 78 1.2165000057.4912.66 80 1.2455000057.4912.66 80 1.2455000057.3612.81 82 1.2745000057.2512.90 83 1.2890000057.0613.02 84 1.3035000057.0613.20 84 1.3035000057.0613.20 86 1.3325000057.0413.26 87 1.3470000056.9413.35 88 1.3615000056.7813.52 90 1.3905000056.7013.74 92 1.4195000056.5313.86 94 1.435000056.3814.01 96 1.4775000056.2314.16 98 1.5065000056.1014.24 99 1.52100000056.2314.16 98 1.5065000055.9114.34 101 1.5535000055.7914.45 103 1.5790000055.7914.45 104 1.59350000055.7114.58 105 1.6080000055.6114.69 107 1.6370000055.4614.80 109 1.6660000055.3614.93	12.18	58.02	1.144000000	73
751.173000000 57.79 12.36 76 1.187500000 57.70 12.43 77 1.202000000 57.65 12.53 78 1.216500000 57.49 12.66 79 1.231000000 57.49 12.66 80 1.245500000 57.43 12.75 81 1.26000000 57.25 12.90 83 1.28900000 57.25 12.90 83 1.28900000 57.26 13.02 84 1.303500000 57.06 13.20 86 1.32500000 57.04 13.26 87 1.34700000 56.94 13.35 88 1.361500000 56.72 13.63 91 1.40500000 56.72 13.63 91 1.40500000 56.53 13.86 94 1.448500000 56.46 13.93 95 1.46300000 56.23 14.10 97 1.49200000 56.23 14.10 97 1.49200000 56.23 14.10 97 1.49200000 56.23 14.16 98 1.50650000 56.10 14.24 99 1.521000000 55.79 14.45 100 1.535500000 55.77 14.55 105 1.60800000 55.68 14.65 106 1.622500000 55.77 14.56 106 1.62500000 55.46 14.80 109 1.666000000 55.36 14.93	12.23	57.93	1.158500000	74
761.187500000 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 1.26000000 57.36 12.81 82 1.274500000 57.25 12.90 83 1.28900000 57.25 12.90 83 1.28900000 57.16 13.12 85 1.318000000 57.06 13.20 84 1.302500000 57.04 13.26 87 1.34700000 56.94 13.35 88 1.361500000 56.78 13.52 90 1.390500000 56.72 13.63 91 1.40500000 56.76 13.74 92 1.419500000 56.65 13.78 93 1.43400000 56.33 13.86 94 1.448500000 56.23 14.10 96 1.47750000 56.23 14.10 97 1.49200000 56.23 14.16 98 1.506500000 56.10 14.24 99 1.521000000 55.77 14.54 100 1.535500000 55.77 14.54 104 1.593500000 55.77 14.54 105 1.608000000 55.46 14.80 109 1.666000000 55.46 14.80 109 1.666000000 55.42 14.87 110 1.680500000 55.36 14.93	12.36	57.79	1.173000000	75
771.20200000 57.65 12.53 78 1.21650000 57.58 12.65 79 1.23100000 57.49 12.66 80 1.24550000 57.43 12.75 81 1.26000000 57.36 12.81 82 1.27450000 57.25 12.90 83 1.28900000 57.20 13.02 84 1.30350000 57.06 13.20 86 1.33250000 57.06 13.20 86 1.33250000 57.04 13.26 87 1.34700000 56.94 13.35 88 1.361500000 56.78 13.52 90 1.39050000 56.72 13.63 91 1.40500000 56.70 13.74 92 1.419500000 56.65 13.78 93 1.43400000 56.38 14.01 96 1.477500000 56.46 13.93 95 1.46300000 56.10 14.24 99 1.52100000 56.23 14.16 98 1.506500000 56.10 14.24 99 1.52100000 55.77 14.54 100 1.535500000 55.77 14.54 101 1.593500000 55.77 14.54 104 1.593500000 55.71 14.58 105 1.608000000 55.46 14.80 109 1.666000000 55.46 14.93	12.43	57.70	1.187500000	76
781.21650000057.5812.65 79 1.23100000057.4912.66 80 1.24550000057.4312.75 81 1.2600000057.3612.81 82 1.27450000057.2512.90 83 1.28900000057.2013.02 84 1.30350000057.1613.12 85 1.31800000057.0613.20 86 1.33250000057.0413.26 87 1.34700000056.9413.35 88 1.36150000056.7813.52 90 1.39050000056.7713.63 91 1.4050000056.6513.78 93 1.43400000056.6513.78 93 1.43400000056.2314.10 96 1.47750000056.2314.10 97 1.49200000056.2314.10 97 1.52100000056.1014.24 99 1.52100000055.7914.45 100 1.53550000055.7114.58 103 1.5790000055.7714.54 104 1.59350000055.7114.58 105 1.60800000055.6814.65 106 1.62250000055.3114.76 108 1.65150000055.4214.87 110 1.68050000055.3614.93	12.53	57.65	1.202000000	77
791.231000000 57.49 12.66801.245500000 57.43 12.75811.26000000 57.36 12.81821.274500000 57.25 12.90831.289000000 57.20 13.02841.303500000 57.16 13.12851.318000000 57.06 13.20861.32500000 57.04 13.26871.347000000 56.94 13.35881.361500000 56.78 13.52901.390500000 56.72 13.63911.40500000 56.70 13.74921.419500000 56.53 13.86941.448500000 56.46 13.93951.463000000 56.23 14.10961.477500000 56.23 14.10971.492000000 56.23 14.16981.506500000 55.91 14.341011.53500000 55.77 14.541031.57900000 55.77 14.541041.593500000 55.77 14.541051.608000000 55.68 14.651061.622500000 55.46 14.801091.66000000 55.36 14.93	12.65	57.58	1.216500000	78
801.245500000 57.43 12.75 81 1.26000000 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 56.78 13.52 90 1.390500000 56.72 13.63 91 1.40500000 56.72 13.63 91 1.40500000 56.53 13.86 94 1.448500000 56.46 13.93 95 1.46300000 56.23 14.10 96 1.477500000 56.23 14.10 97 1.492000000 56.23 14.16 98 1.506500000 56.10 14.24 99 1.521000000 56.77 14.34 100 1.535500000 55.77 14.54 104 1.593500000 55.77 14.54 105 1.608000000 55.68 14.65 106 1.622500000 55.61 14.69 107 1.637000000 55.36 14.93	12.66	57.49	1.231000000	79
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12.75	57.43	1.245500000	80
82 1.274500000 57.25 12.90 83 1.28900000 57.20 13.02 84 1.30350000 57.16 13.12 85 1.31800000 57.06 13.20 86 1.33250000 57.04 13.26 87 1.34700000 56.94 13.35 88 1.36150000 56.78 13.52 90 1.39050000 56.78 13.52 90 1.39050000 56.72 13.63 91 1.40500000 56.70 13.74 92 1.41950000 56.65 13.78 93 1.43400000 56.33 13.86 94 1.44850000 56.46 13.93 95 1.46300000 56.23 14.10 96 1.47750000 56.23 14.10 97 1.49200000 56.10 14.24 99 1.52100000 56.10 14.24 99 1.52100000 55.77 14.34 101 1.5500000 55.77 14.45 103 1.57900000 55.77 14.54 104 1.59350000 55.71 14.58 105 1.60800000 55.68 14.65 106 1.62250000 55.61 14.69 107 1.63700000 55.36 14.93 109 1.66600000 55.36 14.93	12.81	57.36	1.26000000	81
83 1.289000000 57.20 13.02 84 1.30350000 57.16 13.12 85 1.31800000 57.06 13.20 86 1.33250000 57.04 13.26 87 1.34700000 56.94 13.35 88 1.36150000 56.78 13.52 90 1.39050000 56.78 13.52 90 1.39050000 56.72 13.63 91 1.40500000 56.70 13.74 92 1.41950000 56.65 13.78 93 1.43400000 56.53 13.86 94 1.448500000 56.46 13.93 95 1.46300000 56.23 14.10 96 1.477500000 56.23 14.10 97 1.492000000 56.23 14.10 97 1.506500000 56.10 14.24 99 1.521000000 55.91 14.34 101 1.55000000 55.77 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 55.46 14.80 109 1.666000000 55.36 14.93	12.90	57.25	1.274500000	82
841.303500000 57.16 13.12 85 1.318000000 57.06 13.20 86 1.32500000 57.04 13.26 87 1.347000000 56.94 13.35 88 1.361500000 56.78 13.45 89 1.376000000 56.78 13.52 90 1.390500000 56.72 13.63 91 1.405000000 56.72 13.63 91 1.405000000 56.65 13.78 93 1.434000000 56.653 13.86 94 1.448500000 56.466 13.93 95 1.46300000 56.23 14.10 96 1.477500000 56.23 14.10 97 1.492000000 56.23 14.10 97 1.506500000 56.10 14.24 99 1.521000000 55.91 14.34 100 1.535500000 55.91 14.34 101 1.55000000 55.77 14.54 103 1.579000000 55.77 14.54 104 1.593500000 55.77 14.54 105 1.608000000 55.68 14.65 106 1.622500000 55.61 14.69 107 1.637000000 55.46 14.80 109 1.666000000 55.36 14.93	13.02	57.20	1.289000000	83
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.12	57.16	1.303500000	84
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.20	57.06	1.318000000	85
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.26	57.04	1.332500000	86
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	13.35	56.94	1.347000000	87
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	13.45	56.88	1.361500000	88
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.52	56.78	1.376000000	89
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.63	56.72	1.390500000	90
921.41950000056.6513.78 93 1.4340000056.5313.86 94 1.4485000056.4613.93 95 1.4630000056.3814.01 96 1.4775000056.2314.10 97 1.4920000056.2314.16 98 1.5065000056.0414.28 100 1.5355000055.9114.34 101 1.550000055.7914.45 103 1.5790000055.7714.54 104 1.5935000055.7114.58 105 1.6080000055.6814.65 106 1.6225000055.6114.69 107 1.6370000055.4614.80 109 1.6660000055.3614.76 108 1.65150000055.3614.87 110 1.68050000055.3614.93	13.74	56.70	1.405000000	91
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,78	56.65	1.419500000	92
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.86	56.53	1,434000000	93
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.93	56.46	1.448500000	94
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.01	56.38	1.463000000	.95
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.10	56.23	1.477500000	96
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.16	56.23	1.492000000	97
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.24	56.10	1.506500000	98
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.28	56.04	1.521000000	99
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.34	55.91	1.535500000	100
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14.39	55.88	1.550000000	101
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14.45	55.79	1.564500000	102
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14.54	55.77	1.579000000	103
	14.58	55.71	1.593500000	104
1061.62250000055.6114.691071.63700000055.5314.761081.65150000055.4614.801091.66600000055.4214.871101.68050000055.3614.93	14.65	55.68	1.608000000	105
1071.63700000055.5314.761081.65150000055.4614.801091.66600000055.4214.871101.68050000055.3614.93	14.69	55.61	1.622500000	106
1081.65150000055.4614.801091.66600000055.4214.871101.68050000055.3614.93	14.76	55.53	1.637000000	107
1091.66600000055.4214.871101.68050000055.3614.93	14.80	55.46	1.651500000	108
110 1.680500000 55.36 14.93	14.87	55.42	1.666000000	109
	14.93	55.36	1.680500000	110
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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 - 0 =1.57 mho/
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
125	1.883500000	54.32	15.68
125	1.012500000	54.25	15.72
120	1.912500000	54.20	15.02
128	1 941500000	54.14	15.02
120	1 956000000	54.04	15 03
130	1 970500000	53 92	15 99
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	2.13000000	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
140	2.202500000	52.13	16.56
148	2.217000000	52.01	16.50
149	2 24600000	52.01 52.52	16 62
150	2.260500000	52.52	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	2.42000000	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
16/	2.50/000000	51.15	17.27

Company		Document No.	
	Kyocera Wireless Corp.		
Document		Issue No:	Date
	SAR RECONFIRMATION TEST	1	June 2000
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SAR Plots

QCP-2035, #0437, FM ch383

 $\begin{array}{ll} SAR \ (1g): \ 1.49 & [mW/g] \pm 0.17 \ dB, SAR \ (10g): \ 1.07 & [mW/g] \pm 0.14 \ dB \\ Generic Twin Phantom; \ Left Hand Section \\ Probe: \ ET3DV5 - SN1348; \ ConvF(5.90,5.90,5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 \ [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch383, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ 0.01 \ dB \\ \end{array}$







QCP-2035, #0437, FM ch383

 $\begin{array}{ll} SAR \ (1g): \ 1.01 & [mW/g] \pm 0.21 \ dB, SAR \ (10g): \ 0.738 & [mW/g] \pm 0.15 \ dB \\ Generic Twin Phantom; \ Left Hand Section \\ Probe: \ ET3DV5 - SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 & [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch383, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ 0.04 \ dB \\ \end{array}$



QCP-2035, #0437, FM ch799

 $\begin{array}{ll} SAR \ (1g): \ 1.24 & [mW/g] \pm 0.14 \ dB, SAR \ (10g): \ 0.922 & [mW/g] \pm 0.14 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 & [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch799, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ -0.00 & dB \\ \end{array}$





3.60E-1

1.20E-1

SAR_{Tot} [mW/g]
$\begin{array}{ll} SAR \ (1g): \ 1.41 & [mW/g] \pm 0.16 \ dB, \ SAR \ (10g): \ 1.02 & [mW/g] \pm 0.16 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90,5.90,5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 \ [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch799, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ -0.02 \ dB \\ \end{array}$



 $\begin{array}{ll} SAR \ (1g): \ 1.02 & [mW/g] \pm 0.05 \ dB, SAR \ (10g): \ 0.724 & [mW/g] \pm 0.05 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 & [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch991, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ 0.03 \ dB \\ \end{array}$



 SAR_{Tot} [mW/g]



 $\begin{array}{ll} SAR \ (1g): \ 1.27 & [mW/g] \pm 0.01 \ dB, SAR \ (10g): \ 0.896 & [mW/g] \pm 0.01 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.8 \ \rho = 1.00 & [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ FM \ ch991, \ Ant \ G, \ 6-13-00.DA3 \\ Powerdrift: \ -0.00 & dB \\ \end{array}$



 $\begin{array}{ll} SAR \ (1g): \ 1.21 & [mW/g] \pm 0.20 \ dB, \ SAR \ (10g): \ 0.886 & [mW/g] \pm 0.18 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.1 \ \rho = 1.00 \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ CDMA \ ch383, \ Ant \ G, \ 6-19-00.DA3 \\ Powerdrift: \ 0.10 \ dB \\ \end{array}$





SAR_{Tot} [mW/g]









 $\begin{array}{ll} SAR \ (1g): \ 1.06 & [mW/g] \pm 0.13 \ dB, SAR \ (10g): \ 0.772 & [mW/g] \pm 0.16 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90, 5.90, 5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 & [mho/m] \ \epsilon_r = 42.1 \ \rho = 1.00 & [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ CDMA \ ch777, \ Ant \ G, \ 6-19-00.DA3 \\ Powerdrift: \ 0.05 \ dB \\ \end{array}$







 $\begin{array}{l} SAR \ (1g): \ 0.912 \ \ [mW/g] \pm 0.08 \ dB, \ SAR \ (10g): \ 0.639 \ \ [mW/g] \pm 0.01 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.90,5.90,5.90) \\ Brain \ 900MHz: \ \sigma = 0.85 \ \ [mho/m] \ \epsilon_r = 42.1 \ \rho = 1.00 \ \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437_b, \ CDMA \ ch1013, \ Ant \ G, \ 6-19-00.DA3 \\ Powerdrift: \ -0.03 \ dB \\ \end{array}$







SAR_{Tot} [mW/g]



Ø



 $\begin{array}{l} SAR \ (1g): \ 0.822 \ \ [mW/g] \pm 0.01 \ dB, SAR \ (10g): \ 0.465 \ \ [mW/g] \pm 0.05 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.00, 5.00, 5.00) \\ brain \ 1800 \ MHz: \ \sigma = 1.68 \ \ [mho/m] \ \epsilon_r = 40.9 \ \rho = 1.00 \ \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437, \ PCS \ ch1175, \ Ant \ G, \ 6-16-00.DA3 \\ Powerdrift: \ 0.04 \ dB \\ \end{array}$







 $\begin{array}{ll} SAR \ (1g): \ 1.28 & [mW/g] \pm 0.04 \ dB, SAR \ (10g): \ 0.758 & [mW/g] \pm 0.07 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.00, 5.00, 5.00) \\ brain \ 1800 \ MHz: \ \sigma = 1.68 \ [mho/m] \ \epsilon_r = 40.9 \ \rho = 1.00 \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437, \ PCS \ ch25, \ Ant \ G, \ 6-16-00.DA3 \\ Powerdrift: \ 0.19 \ dB \end{array}$





 $\begin{array}{ll} SAR \ (1g): \ 1.21 & [mW/g] \pm 0.01 \ dB, SAR \ (10g): \ 0.716 & [mW/g] \pm 0.05 \ dB \\ Generic \ Twin \ Phantom; \ Left \ Hand \ Section \\ Probe: \ ET3DV5 - \ SN1348; \ ConvF(5.00, 5.00, 5.00) \\ brain \ 1800 \ MHz: \ \sigma = 1.68 \ [mho/m] \ \epsilon_r = 40.9 \ \rho = 1.00 \ [g/cm^3] \\ File \ Name: \ 6GP \ P4B_5, \ \#0437, \ PCS \ ch25, \ Ant \ G, \ 6-16-00.DA3 \\ Powerdrift: \ -0.00 \ dB \\ \end{array}$



QCP-2035, #0437, FM ch383, Waist SAR with KWC belt clip SAR (1g): 0.803 $[mW/g] \pm 0.07 \text{ dB}$, SAR (10g): 0.540 $[mW/g] \pm 0.01 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \text{ [mho/m]} \epsilon_r = 56.2 \rho = 1.00 \text{ [g/cm^3]}$ File Name: 6GP P4B_5, #0437, FM ch383, waist, Ant G, 6-20-00.DA3

Powerdrift: 0.01 dB

 SAR_{Tot} [mW/g]

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QCP-2035, #0437, FM ch383, Waist SAR with KWC belt clip SAR (1g): 0.491 $[mW/g] \pm 0.02 \text{ dB}$, SAR (10g): 0.333 $[mW/g] \pm 0.05 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 [mho/m] \epsilon_r = 56.2 \rho = 1.00 [g/cm^3]$ 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 $[mW/g] \pm 0.09 \text{ dB}$, SAR (10g): 0.597 $[mW/g] \pm 0.01 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \text{ [mho/m]} \epsilon_r = 56.2 \rho = 1.00 \text{ [g/cm^3]}$ 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 $[mW/g] \pm 0.01 \text{ dB}$, SAR (10g): 0.553 $[mW/g] \pm 0.09 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \ [mho/m] \epsilon_r = 56.2 \ \rho = 1.00 \ [g/cm^3]$ 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: $\sigma = 0.94$ $[mho/m] \epsilon_r = 56.2 \ \rho = 1.00$ $[g/cm^3]$ File Name: 6GP P4B_5, #0437, FM ch991, waist, Ant G, 6-20-00.DA3







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







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

 SAR_{Tot} [mW/g]





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

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







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: σ = 1.56 [mho/m] ϵ_r = 54.4 ρ = 1.00 [g/cm^3] File Name: 6GP P4B_5, #0437, PCS ch1175, waist, Ant G, 6-19-00.DA3 Powerdrift: -0.03 dB

 SAR_{Tot} [mW/g]





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 $[mW/g] \pm 0.13 \text{ dB}$, SAR (10g): 0.193 $[mW/g] \pm 0.15 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50) Muscle 1800 MHz: $\sigma = 1.56 \text{ [mho/m]} \epsilon_r = 54.4 \rho = 1.00 \text{ [g/cm}^3$]

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

Powerdrift: 0.12 dB

SAR_{Tot} [mW/g]





QCP-2035, #0437, PCS ch600, Waist SAR with 2.3cm air gap SAR (1g): 0.237 $[mW/g] \pm 0.17 \text{ dB}$, SAR (10g): 0.144 $[mW/g] \pm 0.13 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50) Muscle 1800 MHz: $\sigma = 1.57 [mho/m] \epsilon_r = 54.6 \rho = 1.00 [g/cm^3]$ 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: $\sigma = 1.57$ $[mho/m] \epsilon_r = 54.6 \rho = 1.00$ $[g/cm^3]$ 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: $\sigma = 1.57$ $[mho/m] \epsilon_r = 54.6 \rho = 1.00$ $[g/cm^3]$ 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 $[mW/g] \pm 0.23 \text{ dB}$, SAR (10g): 0.205 $[mW/g] \pm 0.15 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(4.50,4.50,4.50) Muscle 1800 MHz: $\sigma = 1.57 \text{ [mho/m]} \epsilon_r = 54.6 \rho = 1.00 \text{ [g/cm}^3\text{]}$ File Name: 6GP P4B_5, #0437, PCS ch1175, waist 2.3cm, Ant G, 6-27-00.DA3 Powerdrift: -0.27 dB

 SAR_{Tot} [mW/g]





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: $\sigma = 1.55$ $[mho/m] \epsilon_r = 54.9 \rho = 1.00$ $[g/cm^3]$ 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 $[mW/g] \pm 0.00 \text{ dB}$, SAR (10g): 0.501 $[mW/g] \pm 0.08 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \ [mho/m] \ \epsilon_r = 56.1 \ \rho = 1.00 \ [g/cm^3]$ File Name: 6GP P4B_5, #0437, FM ch383, waist 2.3cm, Ant G, 6-27-00.DA3 Powerdrift: -0.30 dB







QCP-2035, #0437, FM ch383, Waist SAR with 2.3cm air gap SAR (1g): 0.669 $[mW/g] \pm 0.19 \text{ dB}$, SAR (10g): 0.473 $[mW/g] \pm 0.17 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \text{ [mho/m] } \epsilon_r = 56.1 \ \rho = 1.00 \text{ [g/cm}^3\text{]}$ 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 $[mW/g] \pm 0.17 \text{ dB}$, SAR (10g): 0.807 $[mW/g] \pm 0.17 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 [mho/m] \epsilon_r = 56.1 \rho = 1.00 [g/cm^3]$ 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: $\sigma = 0.94 [mho/m] \epsilon_r = 56.1 \rho = 1.00 [g/cm^3]$ 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 $[mW/g] \pm 0.20 \text{ dB}$, SAR (10g): 1.08 $[mW/g] \pm 0.20 \text{ dB}$ Generic Twin Phantom; Flat Section Probe: ET3DV5 - SN1348; ConvF(5.72,5.72,5.72) Muscle 900MHz: $\sigma = 0.94 \ [mho/m] \epsilon_r = 56.1 \ \rho = 1.00 \ [g/cm^3]$ File Name: 6GP P4B_5, #0437, FM ch991, waist 2.3cm, Ant G, 6-27-00.DA3 Powerdrift: -0.01 dB





