HRMS STANDARDS REVIEW CHECKLIST

Attachment 7.F.2

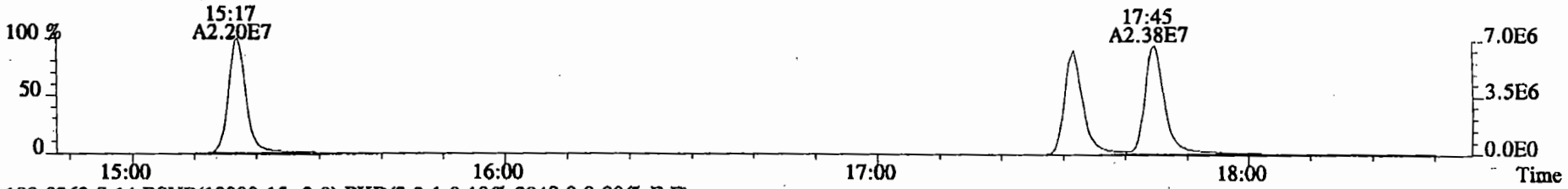
Beginning Calibration ID: ST031020E3-1 Ending Calibration ID: ST031020E3-2

	Beg.CAL	End. CAL	COMMENTS
Calibration Verification/Form 4A/B: Ion abundance within QC limits?	✓	✓	
Calibration Verification/Form 4A/B: Conc within Conc. range?	✓	✓	
Form 5: First and last eluters present? (N/A for DB225)	—	—	
Form 6A/6B: Relative Retention Times within limits? (N/A for M23, TO9, 1668, DB225)	—	—	
Cal. Ver. Named correctly? (Ex. ST-Year-Month-Day-VG ID)	✓	✓	
Cal. Verification forms signed and dated for review?	✓	✓	
Appropriate ICAL referenced?	✓	✓	
Run log: Standards named correctly? Correct Instrument listed?	✓	✓	
Run log: Samples within 12-hour shift?		✓*	* [illegible]
Mass resolution > 10,000	✓	✓	
2378-TCDD/TCDF valley < 25% (N/A for 1668)	—	—	
All appropriate peaks integrated correctly?	✓	✓	
Manual integrations included?	✓	✓	
8280: Ratios within limits?		—	
8280: S/N > 2.5:1		—	
8280: CS1 within 12 hrs?		—	

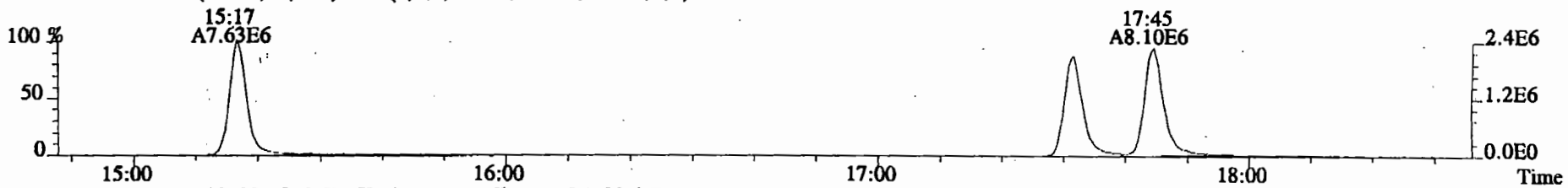
Reviewer Initial/Date: _____ QA* (Random 5% Check) Initial/Date: [illegible] 10/22/03

File:031020E3 #1-728 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1

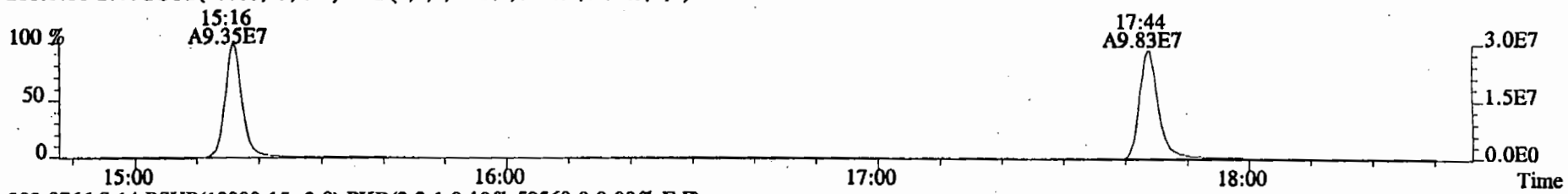
188.0393 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3968.0,0.00%,F,F)



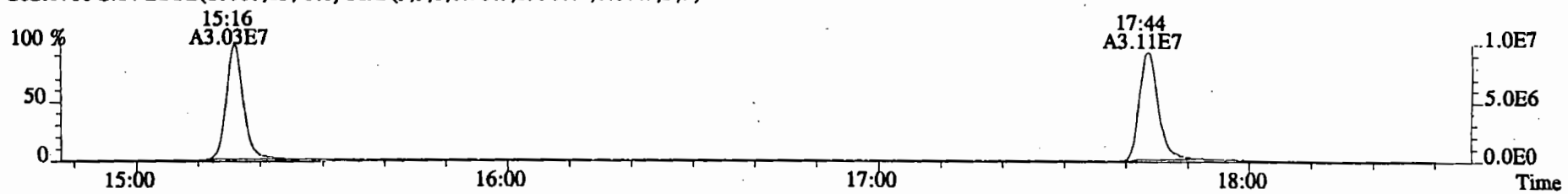
190.0363 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2048.0,0.00%,F,F)



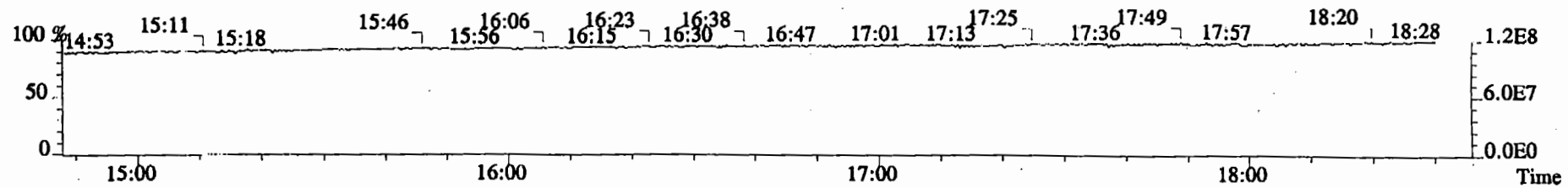
200.0795 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4404.0,0.00%,F,F)



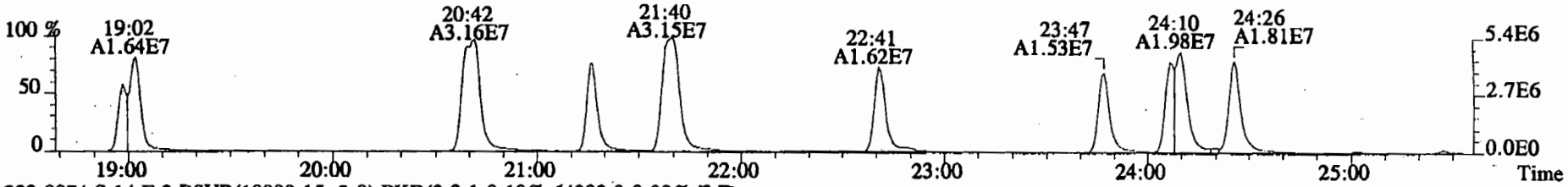
202.0766 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,59560.0,0.00%,F,F)



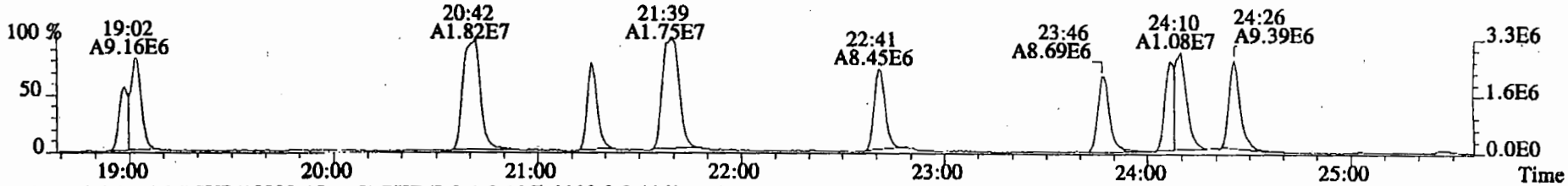
180.9880 S:14



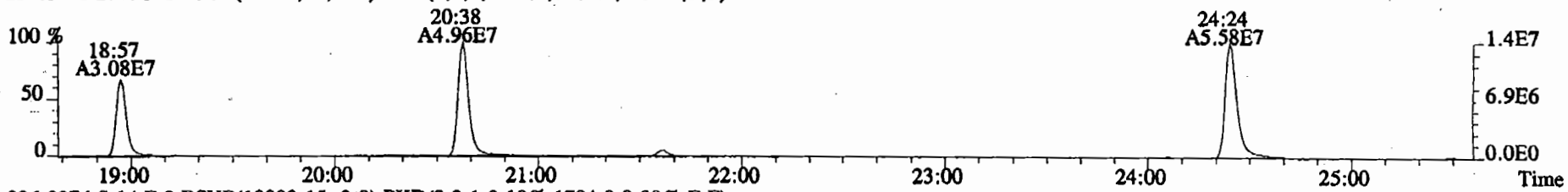
File:031020E3 #1-686 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6916.0,0.00%,F,F)



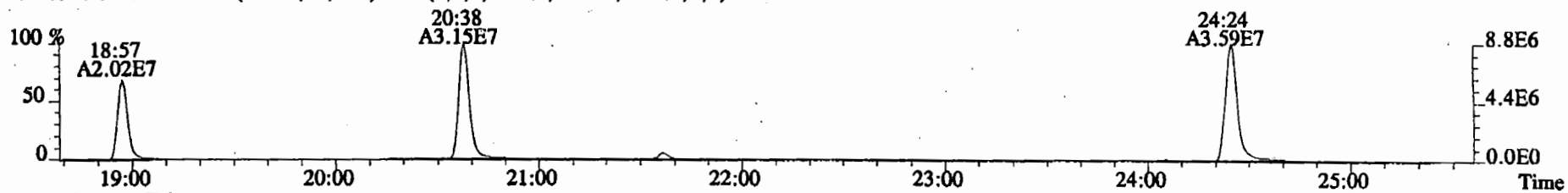
223.9974 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64988.0,0.00%,F,F)



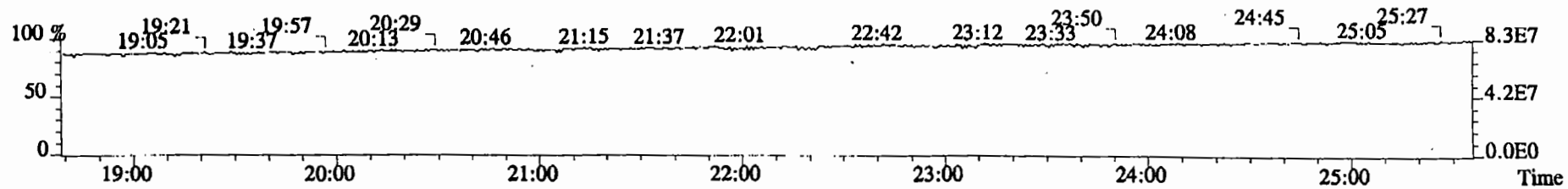
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3288.0,0.00%,F,F)



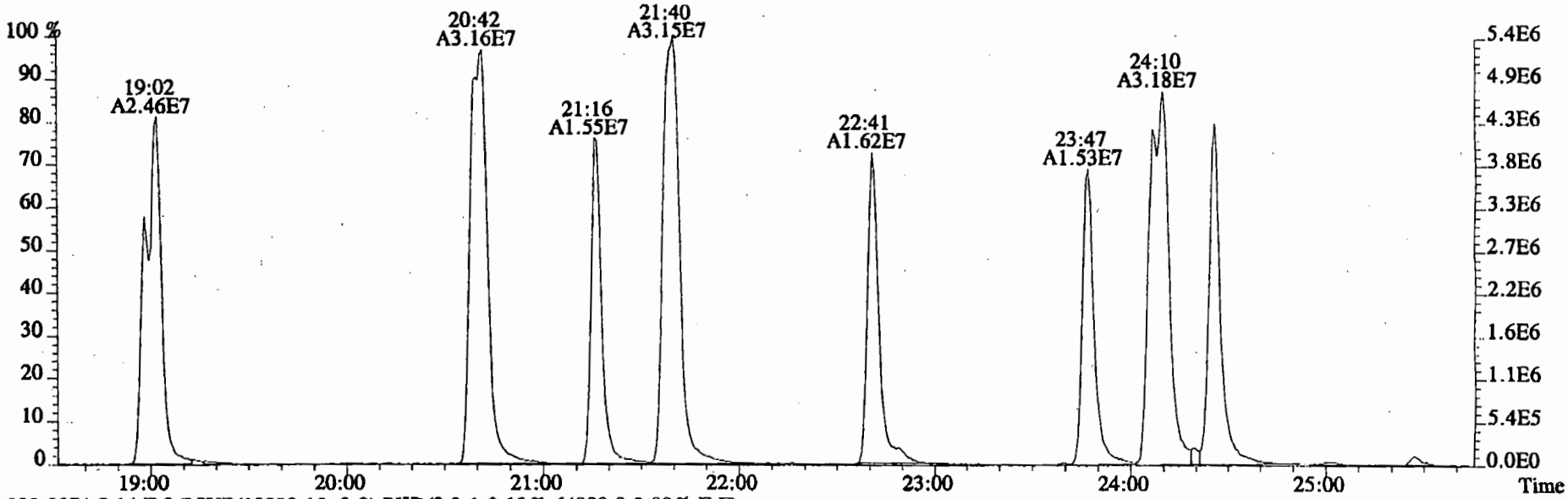
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1784.0,0.00%,F,F)



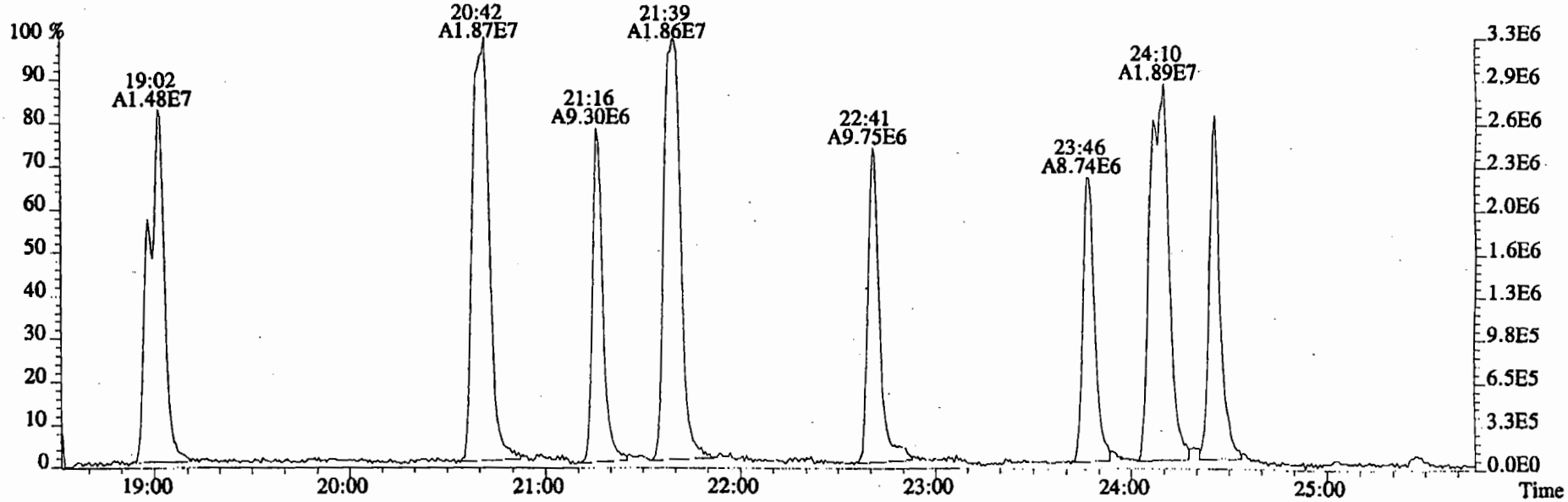
230.9856 S:14 F:2



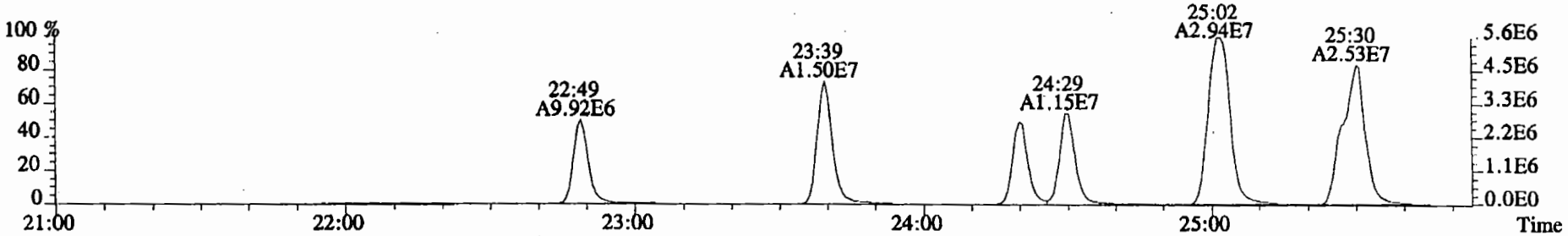
File:031020E3 #1-686 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6916.0,0.00%,F,F)



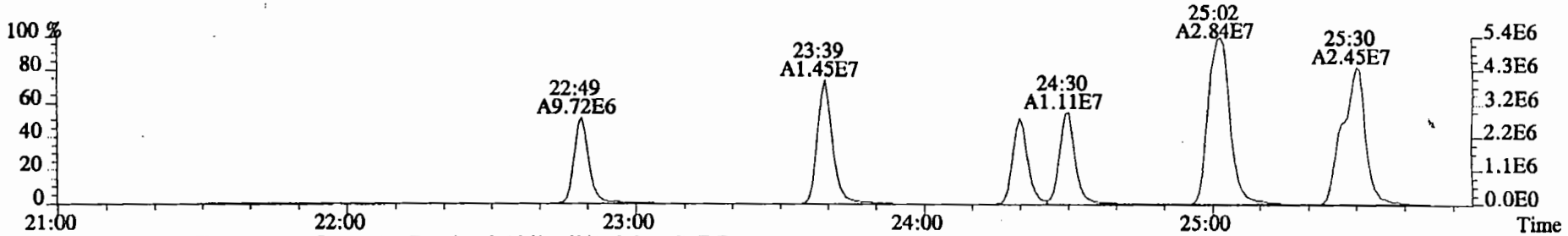
223.9974 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64988.0,0.00%,F,F)



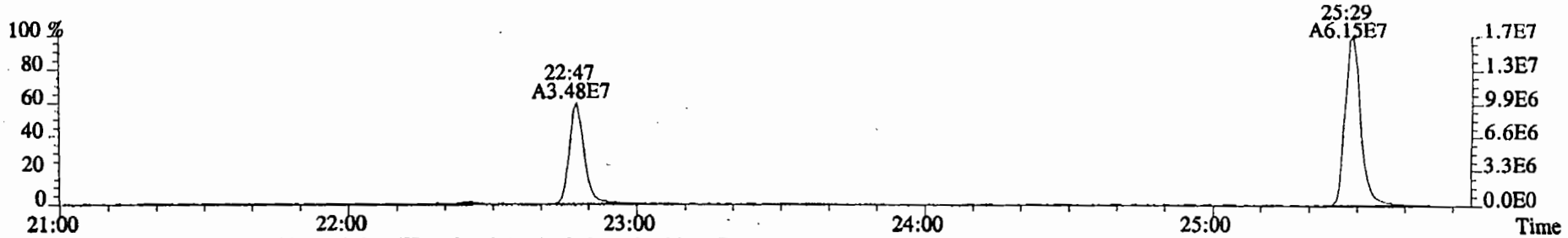
File:031020E3 #1-686 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3812.0,0.00%,F,F)



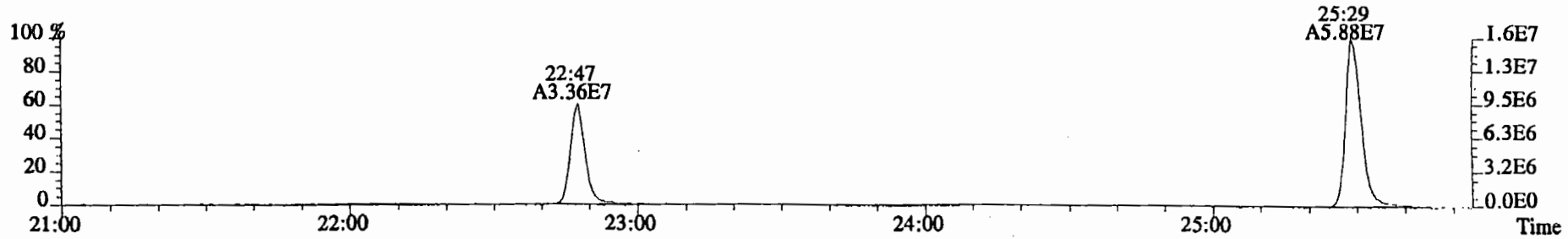
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



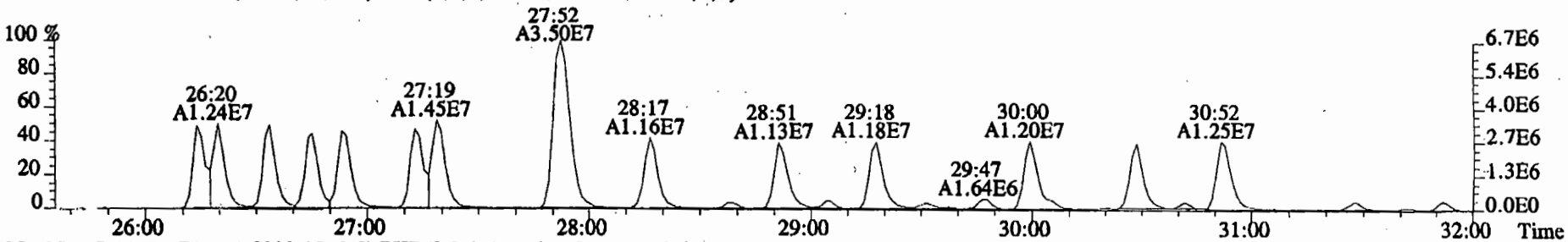
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46032.0,0.00%,F,F)



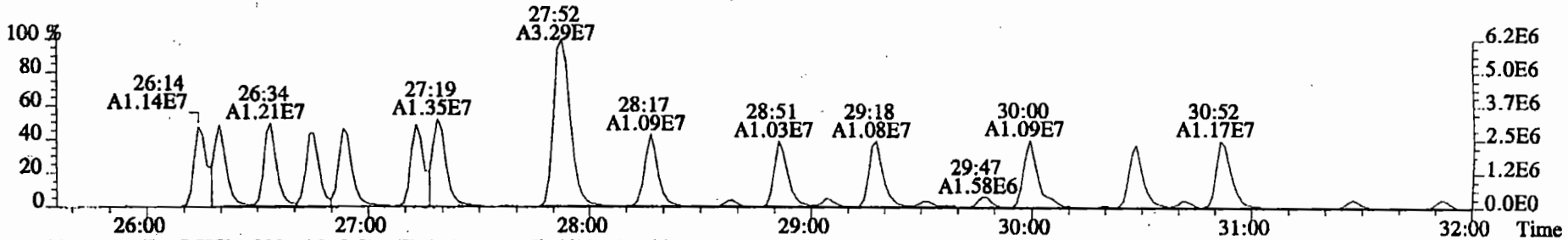
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23184.0,0.00%,F,F)



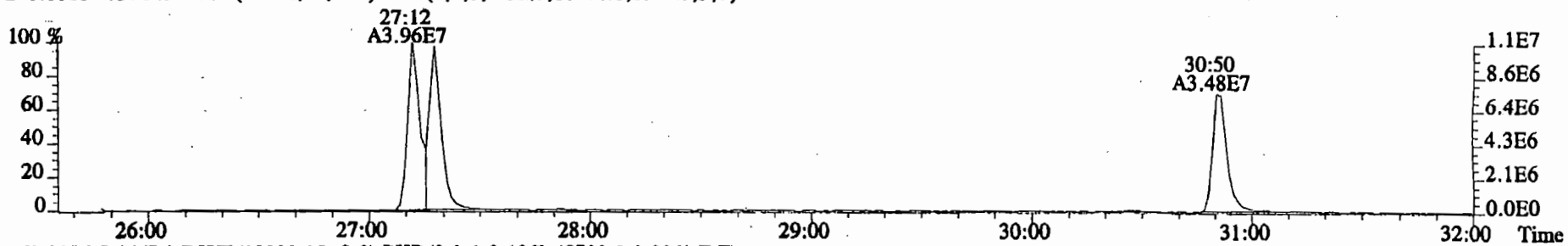
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
255.9613 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,28040.0,0.00%,F,F)



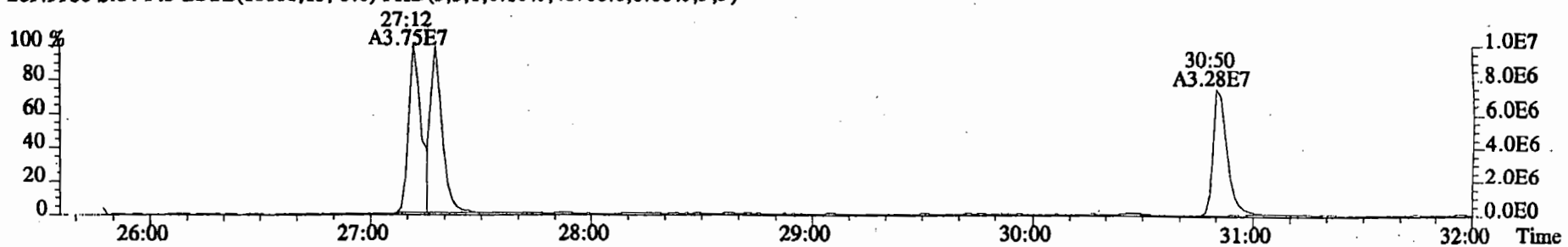
257.9584 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10880.0,0.00%,F,F)



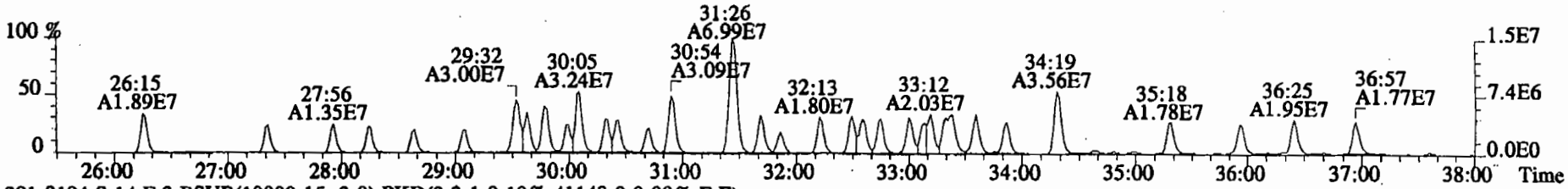
268.0016 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,66284.0,0.00%,F,F)



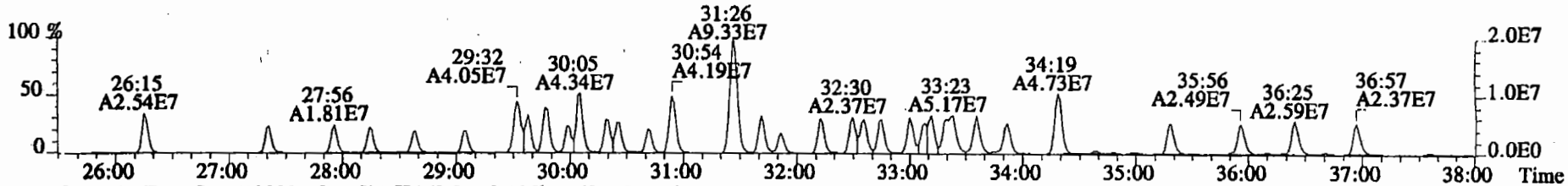
269.9986 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48708.0,0.00%,F,F)



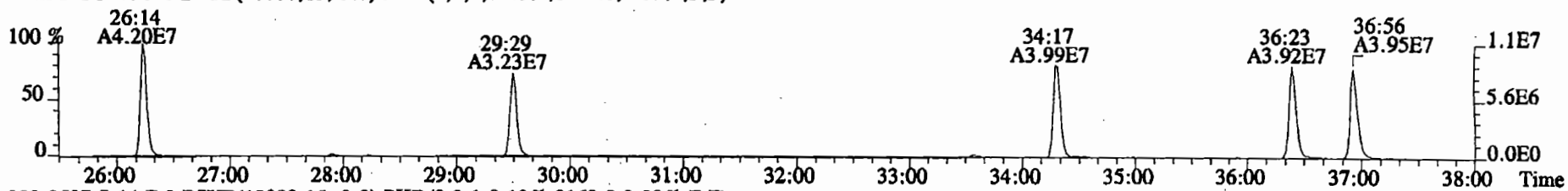
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40136.0,0.00%,F,F)



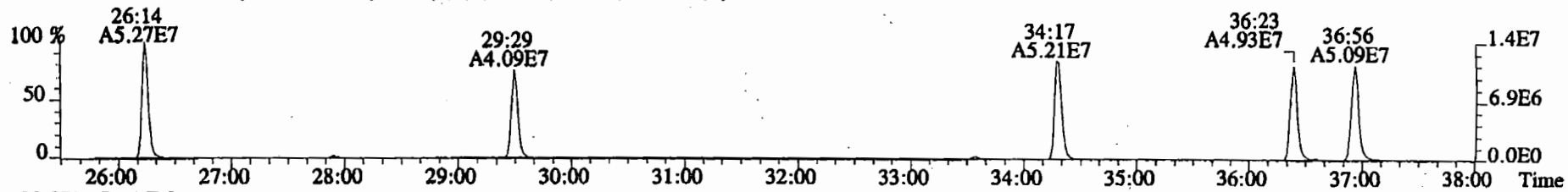
291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41148.0,0.00%,F,F)



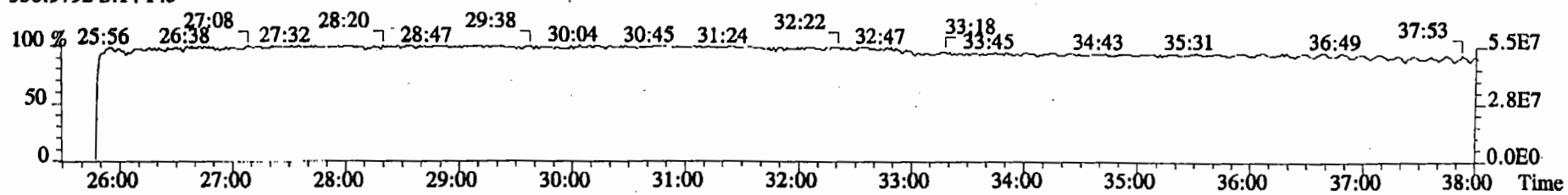
301.9626 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6760.0,0.00%,F,F)



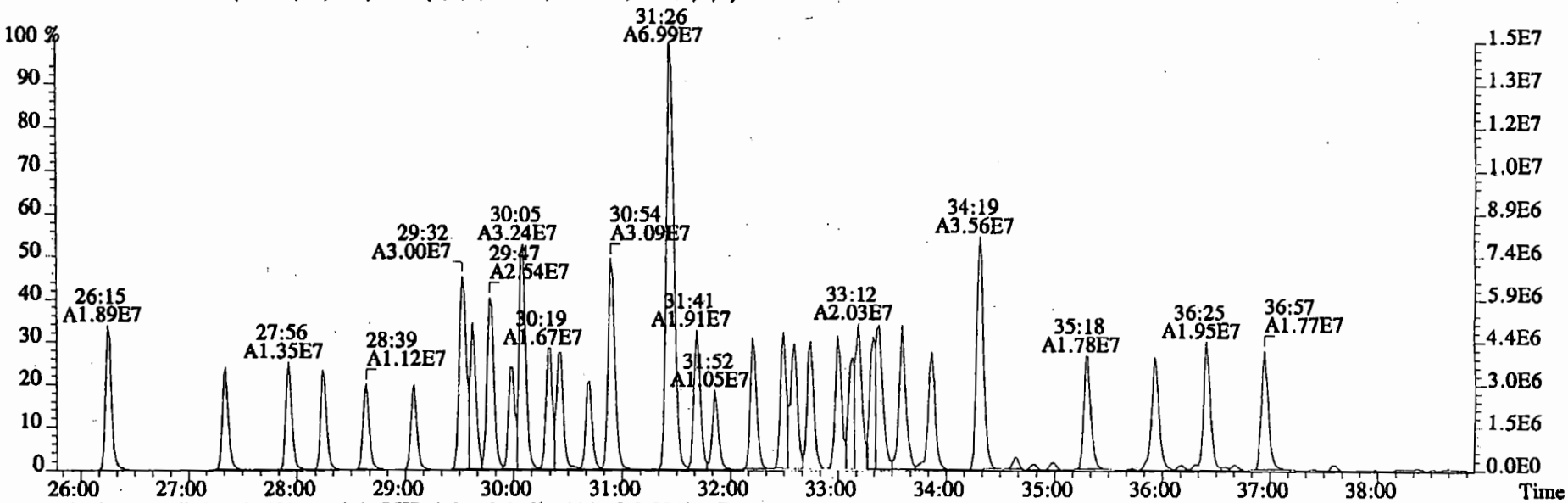
303.9597 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3160.0,0.00%,F,F)



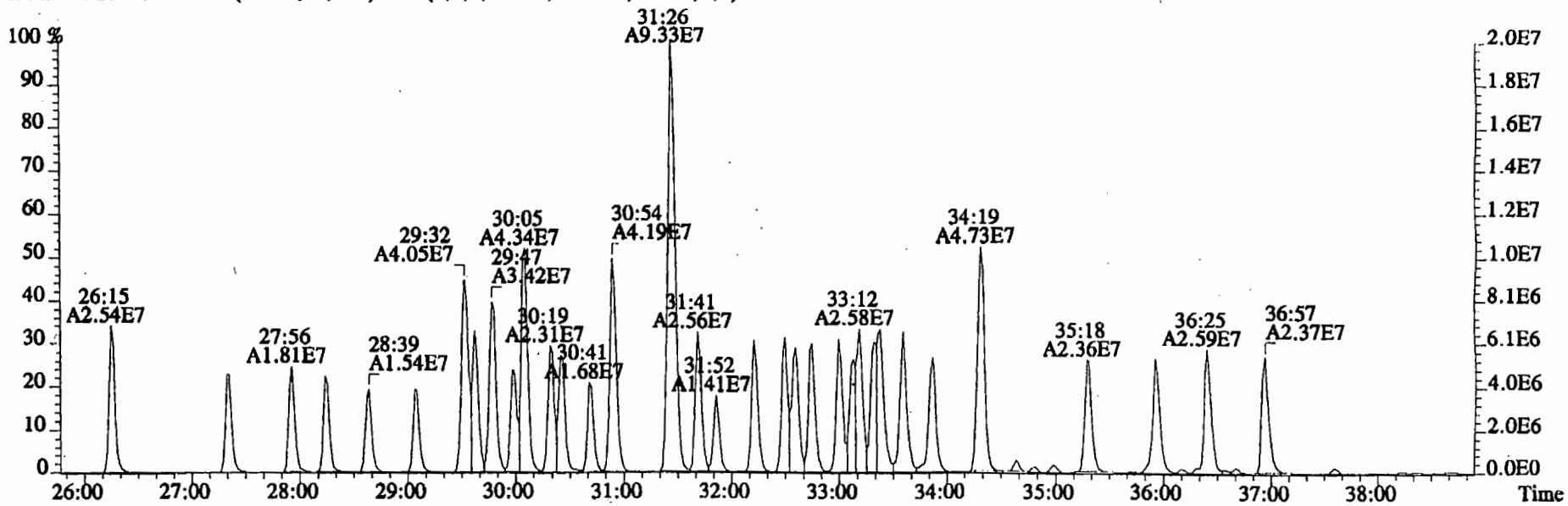
330.9792 S:14 F:3



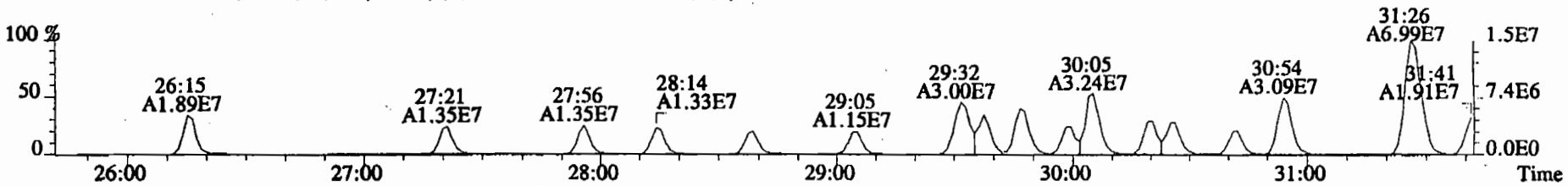
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40136.0,0.00%,F,F)



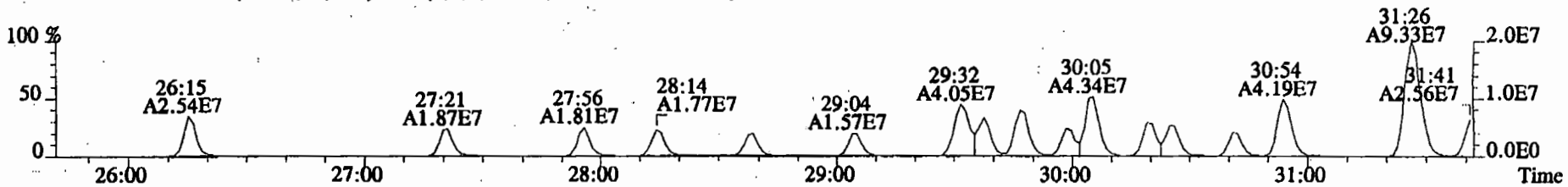
291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41148.0,0.00%,F,F)



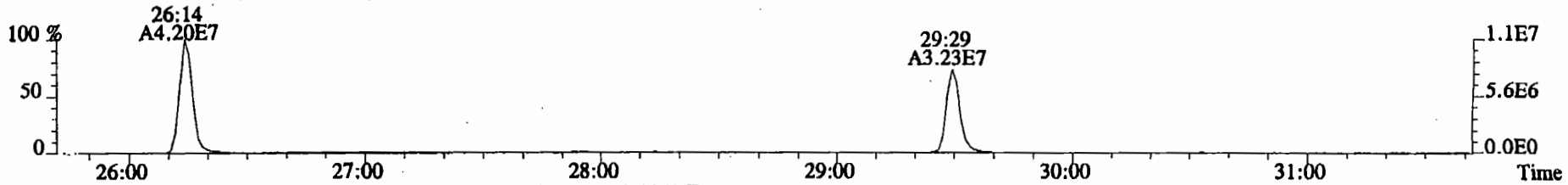
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40136.0,0.00%,F,F)



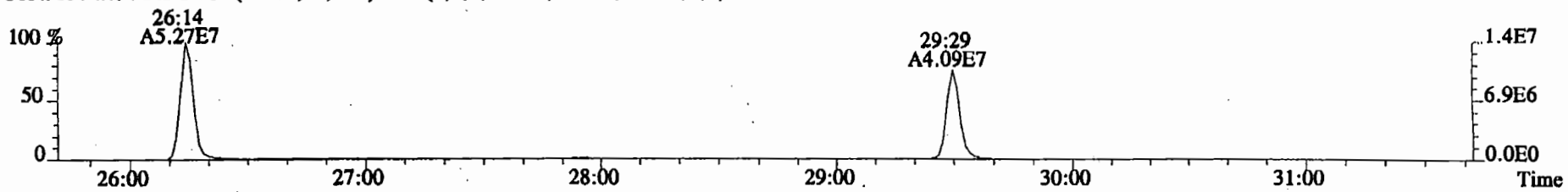
291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41148.0,0.00%,F,F)



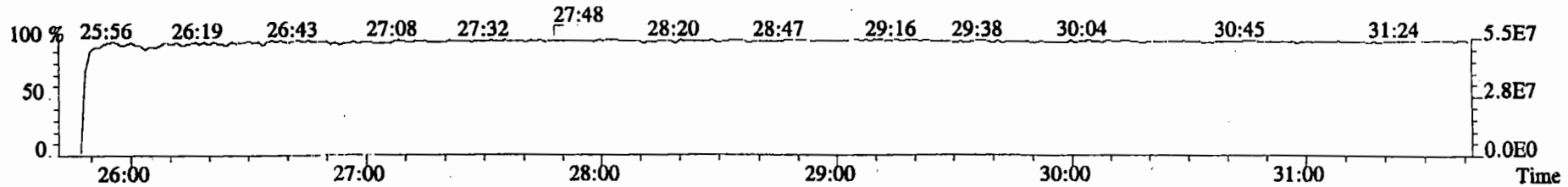
301.9626 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6760.0,0.00%,F,F)



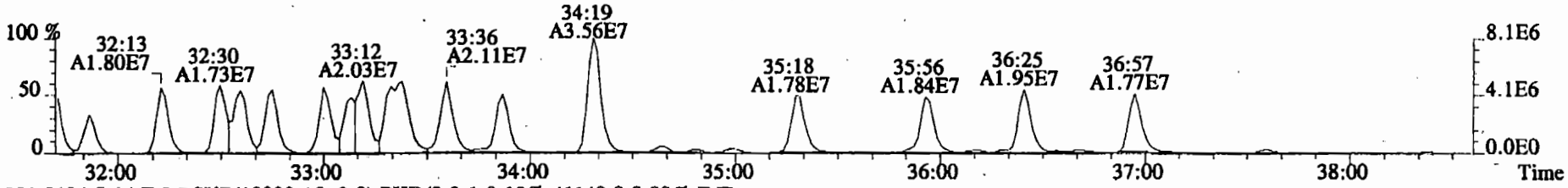
303.9597 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3160.0,0.00%,F,F)



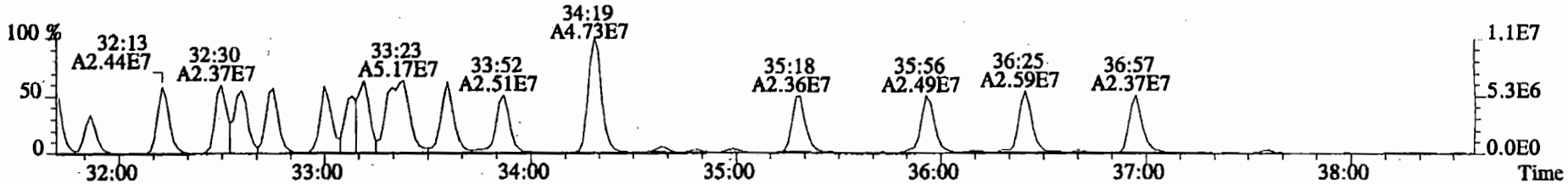
330.9792 S:14 F:3



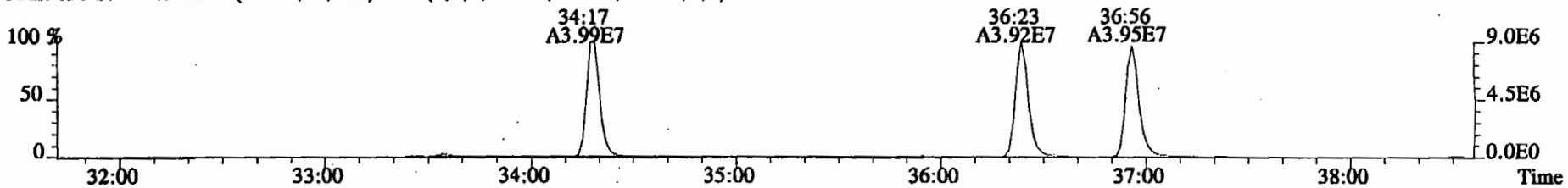
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40136.0,0.00%,F,F)



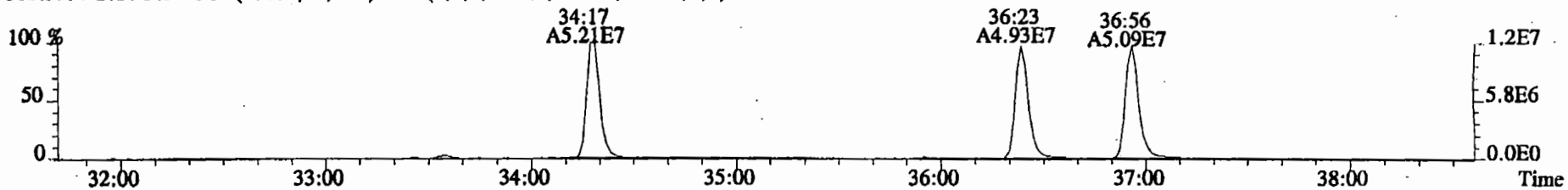
291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41148.0,0.00%,F,F)



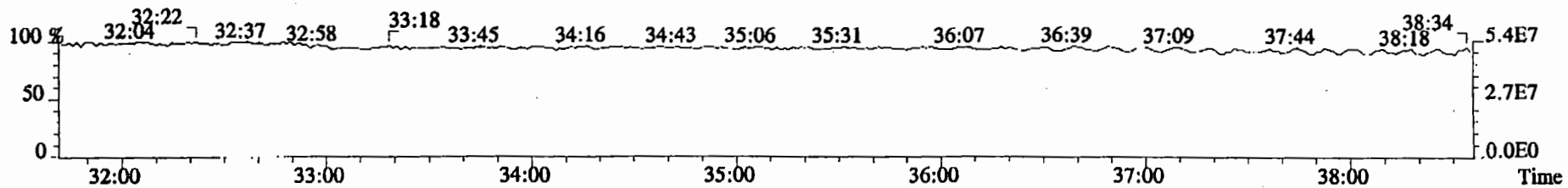
301.9626 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6760.0,0.00%,F,F)



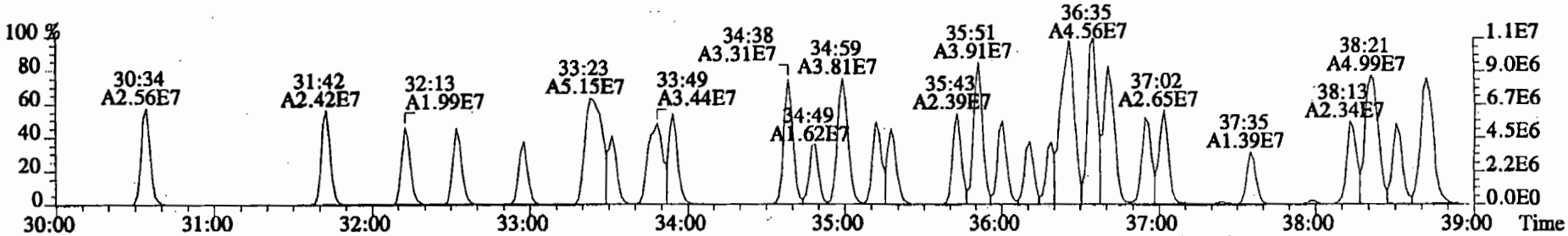
303.9597 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3160.0,0.00%,F,F)



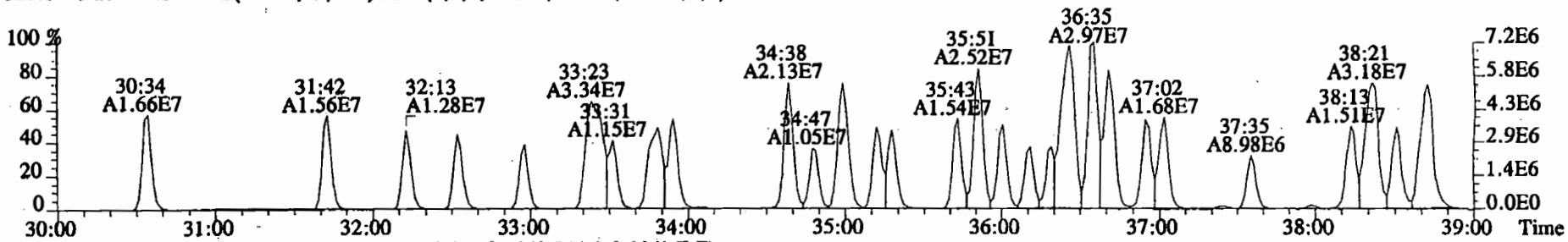
330.9792 S:14 F:3



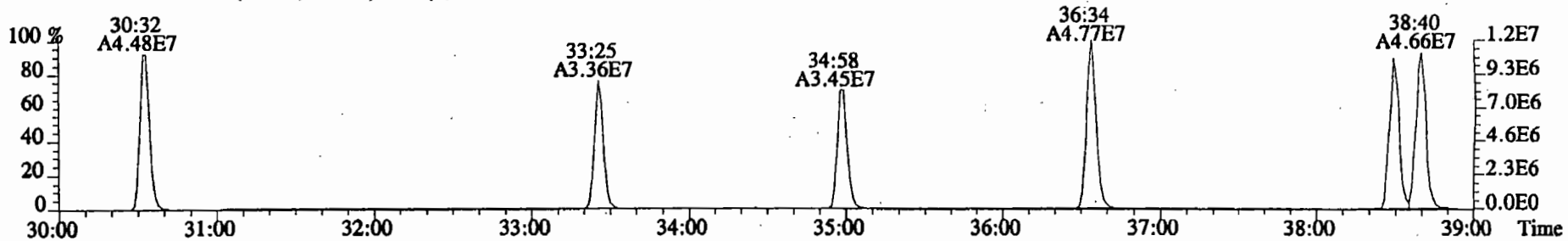
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
325.8804 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,704.0,0.00%,F,F)



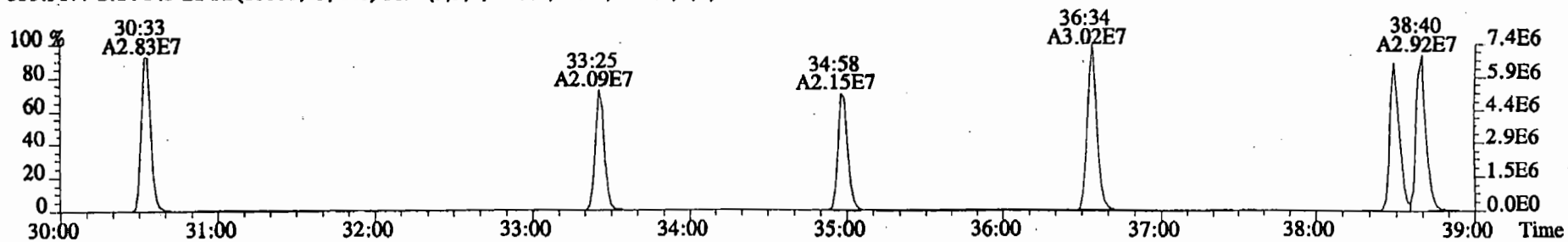
327.8775 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



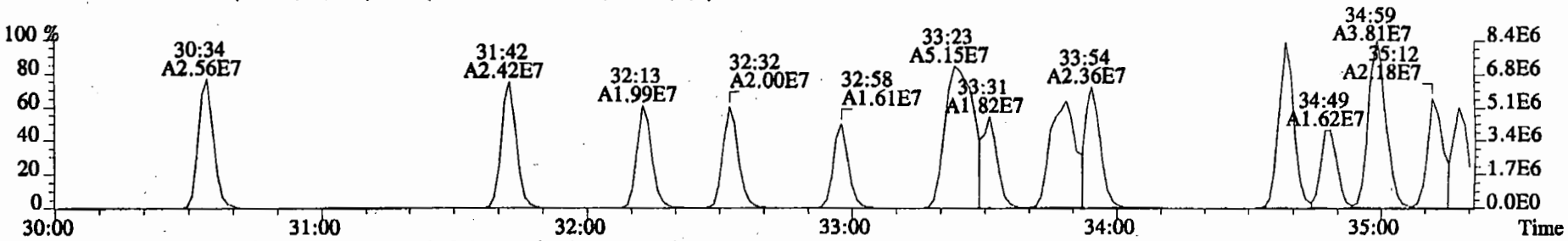
337.9207 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,844.0,0.00%,F,F)



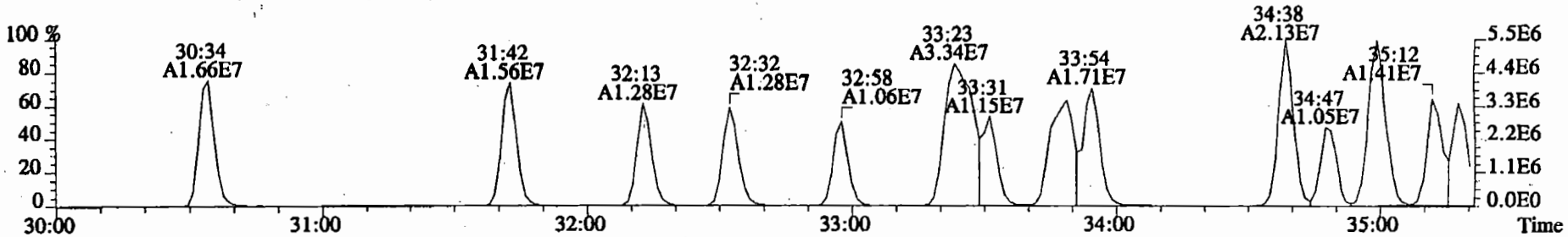
339.9177 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,388.0,0.00%,F,F)



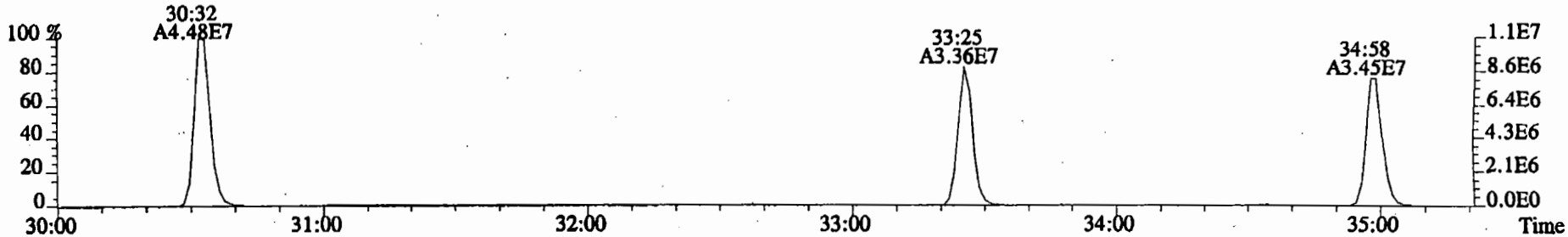
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
325.8804 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,704.0,0.00%,F,F)



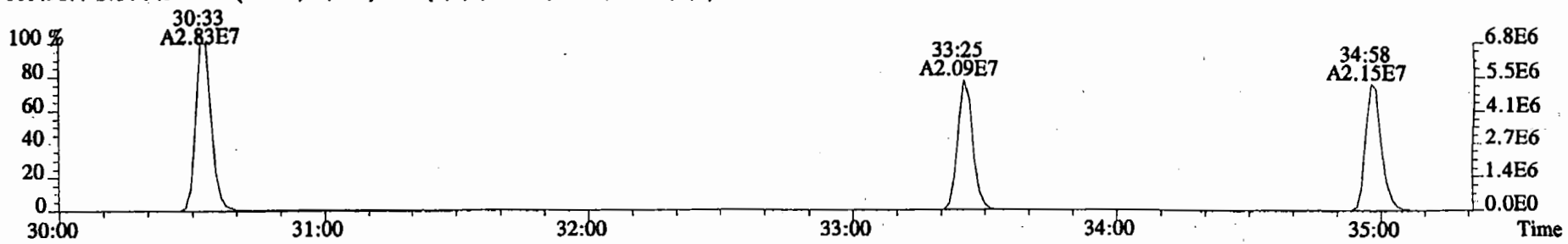
327.8775 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



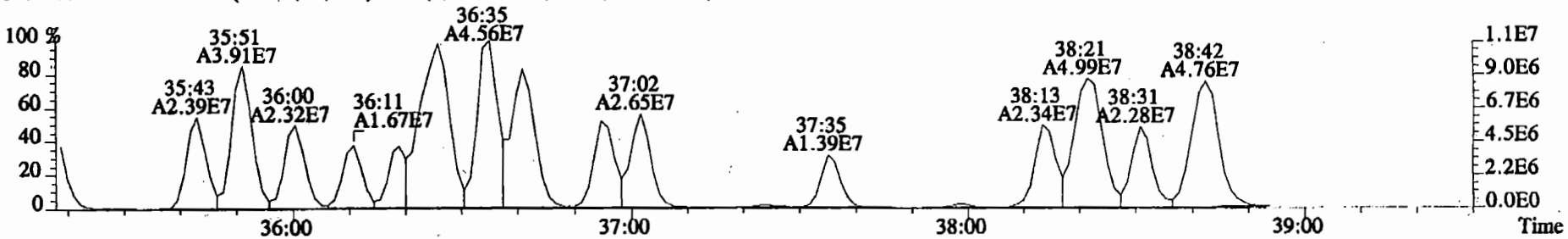
337.9207 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,844.0,0.00%,F,F)



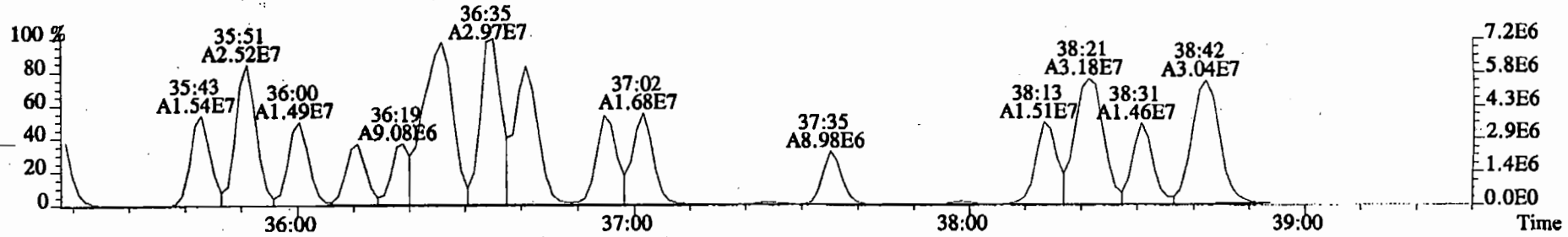
339.9177 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,388.0,0.00%,F,F)



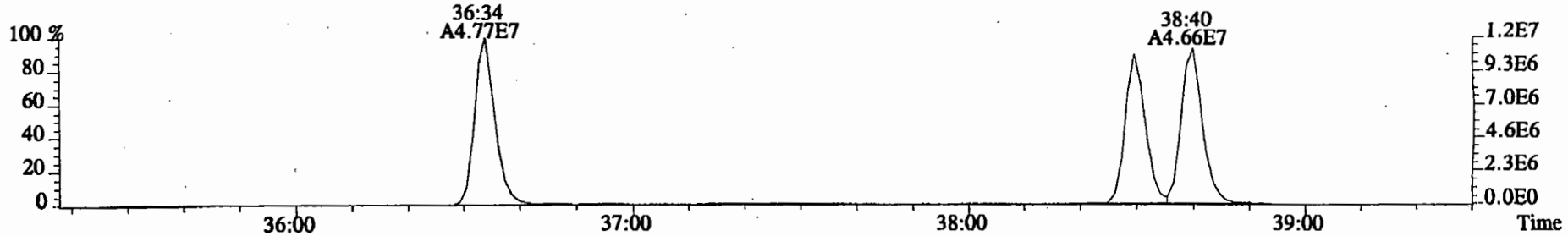
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
325.8804 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,704.0,0.00%,F,F)



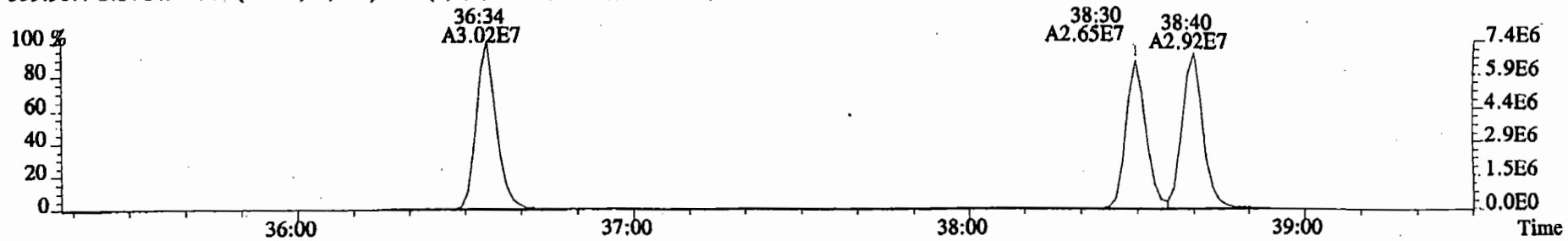
327.8775 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



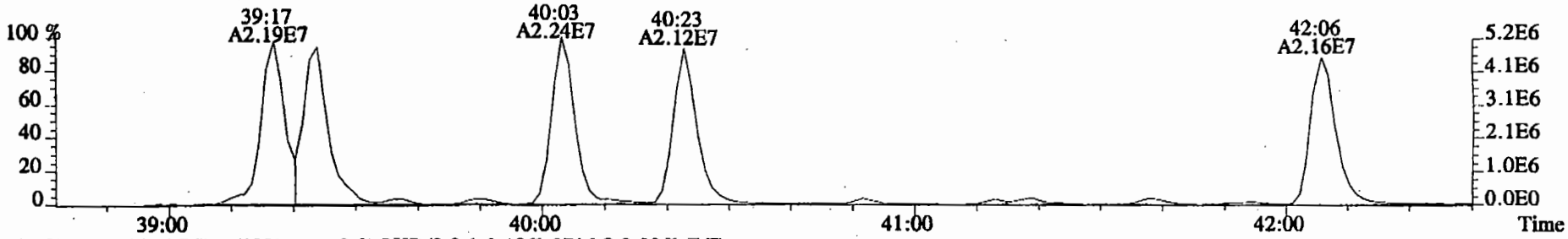
337.9207 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,844.0,0.00%,F,F)



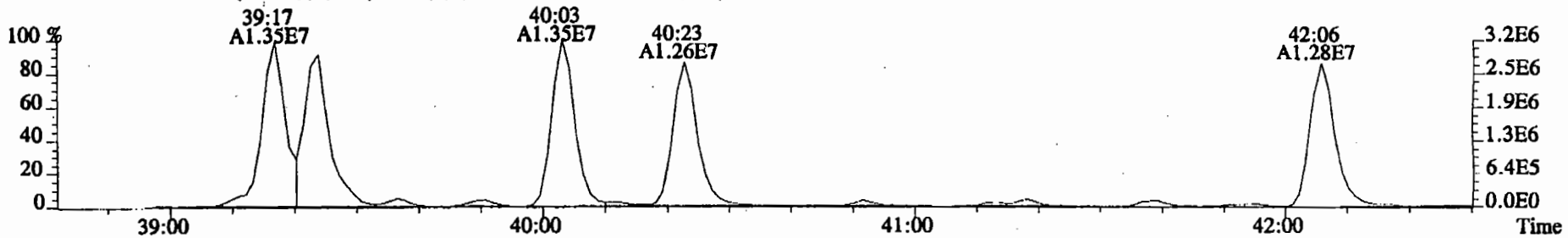
339.9177 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,388.0,0.00%,F,F)



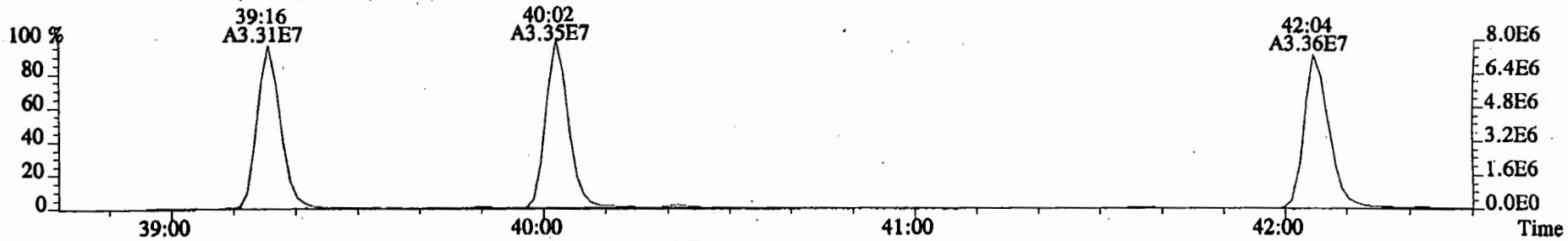
File:031020E3 #1-511 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
325.8804 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5428.0,0.00%,F,F)



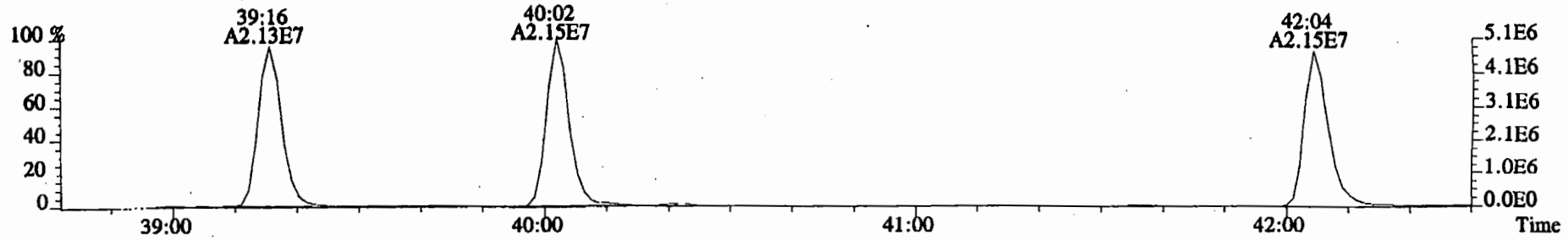
327.8775 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)



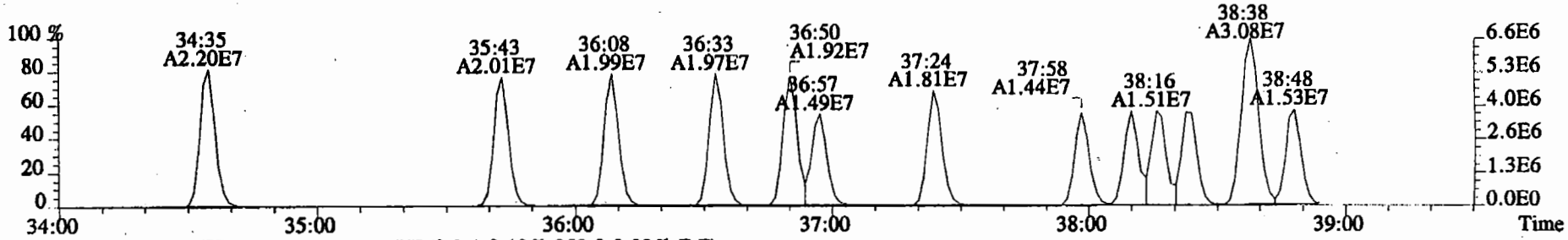
337.9207 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3468.0,0.00%,F,F)



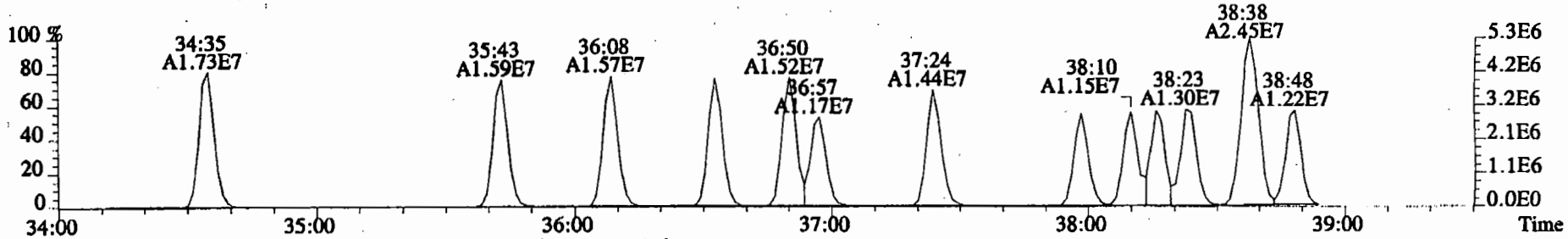
339.9177 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2828.0,0.00%,F,F)



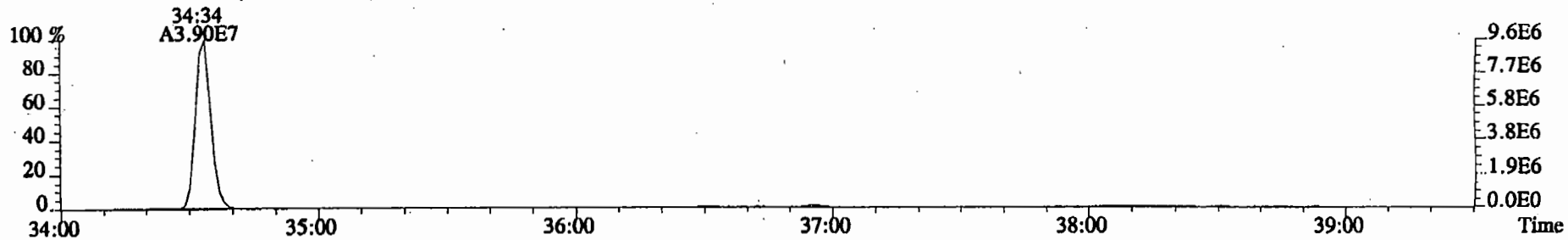
File:031020E3 #1-681 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
359.8415 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,588.0,0.00%,F,F)



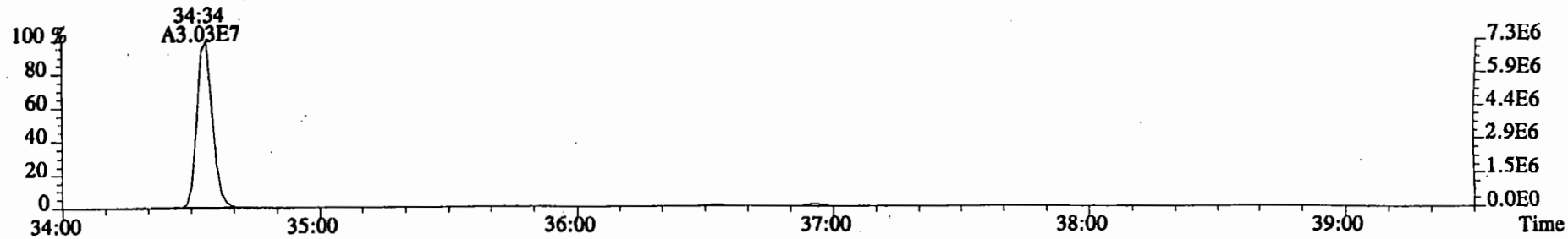
361.8385 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,352.0,0.00%,F,F)



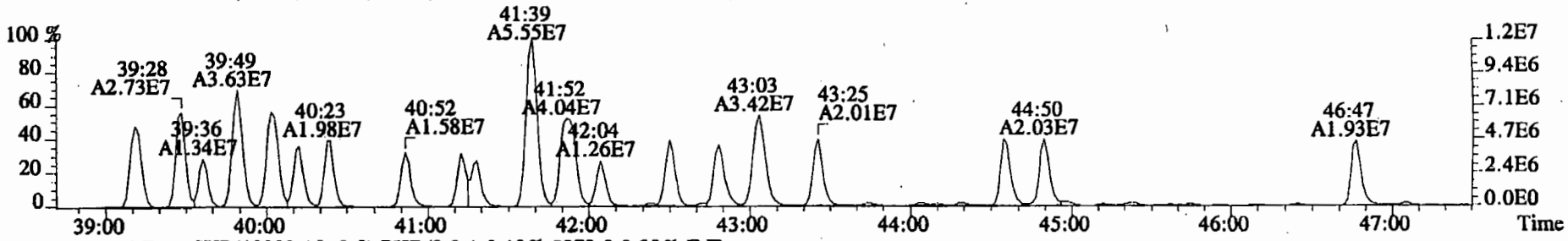
371.8817 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,304.0,0.00%,F,F)



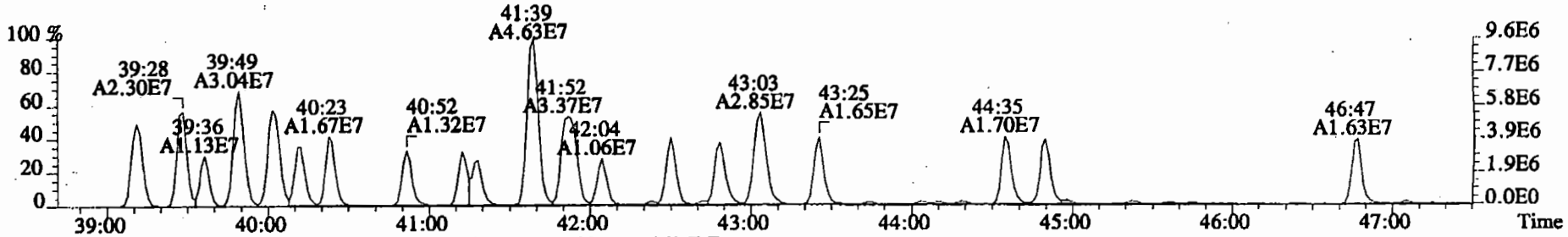
373.8788 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,316.0,0.00%,F,F)



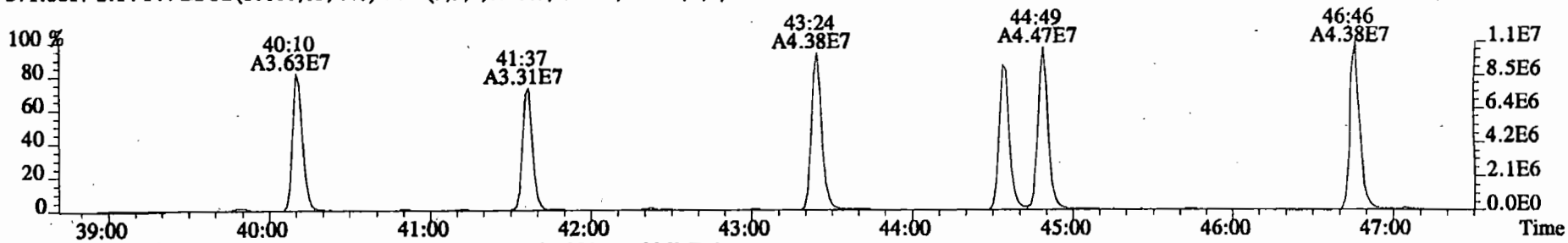
File:031020E3 #1-511 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
359.8415 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14108.0,0.00%,F,F)



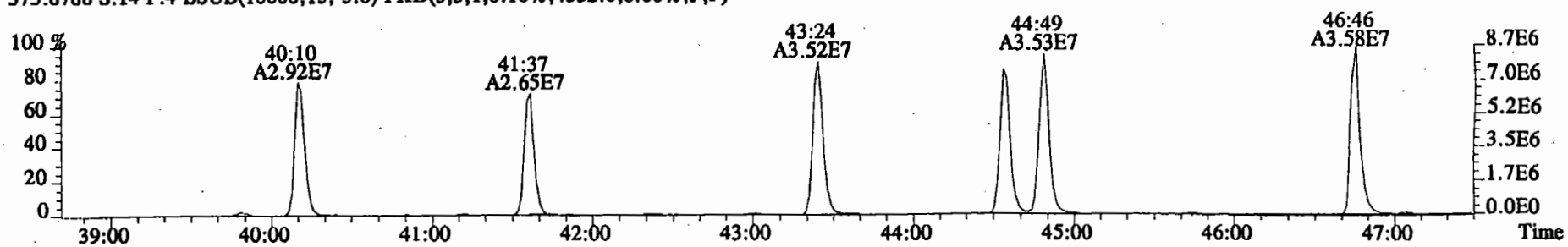
361.8385 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8372.0,0.00%,F,F)



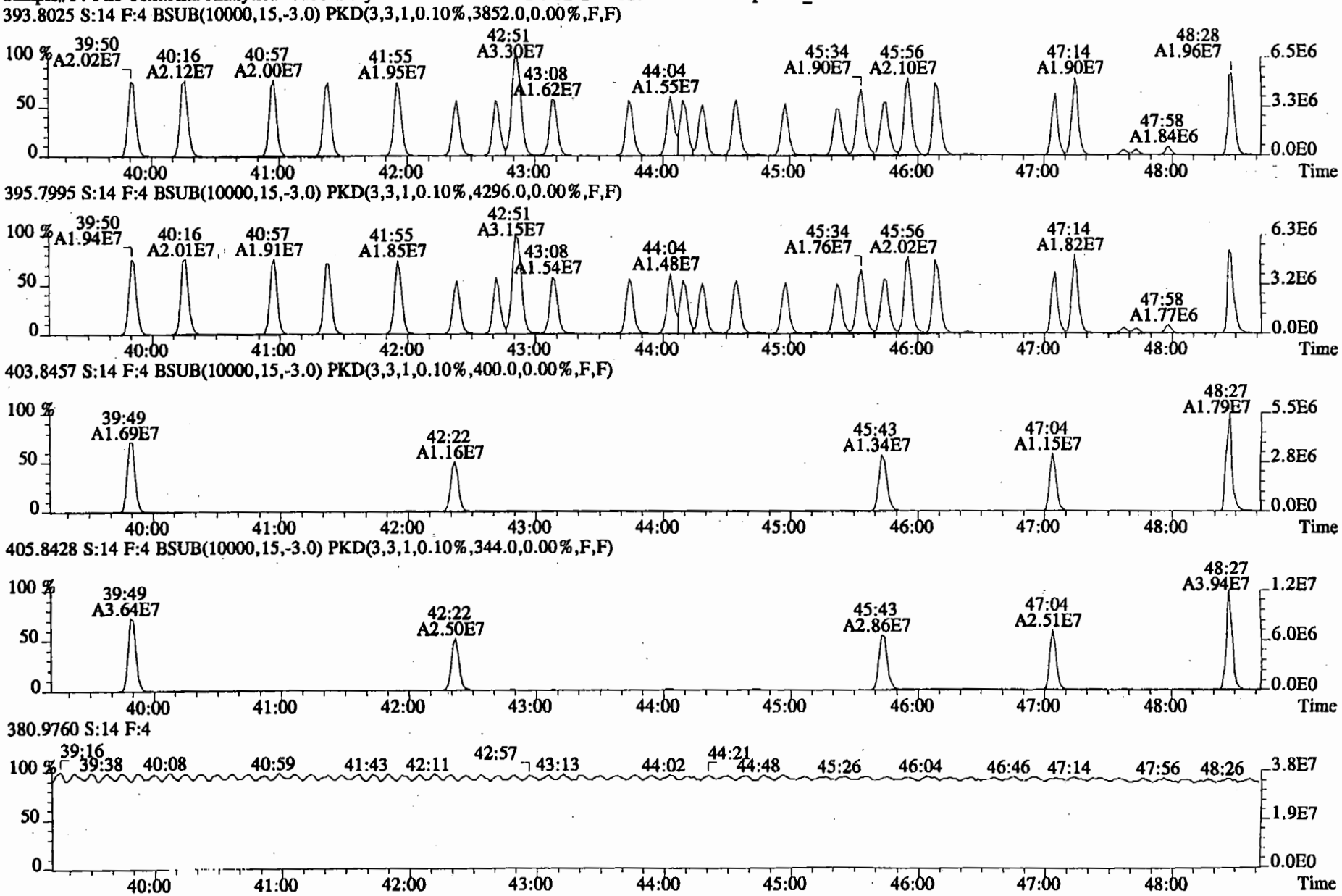
371.8817 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4912.0,0.00%,F,F)



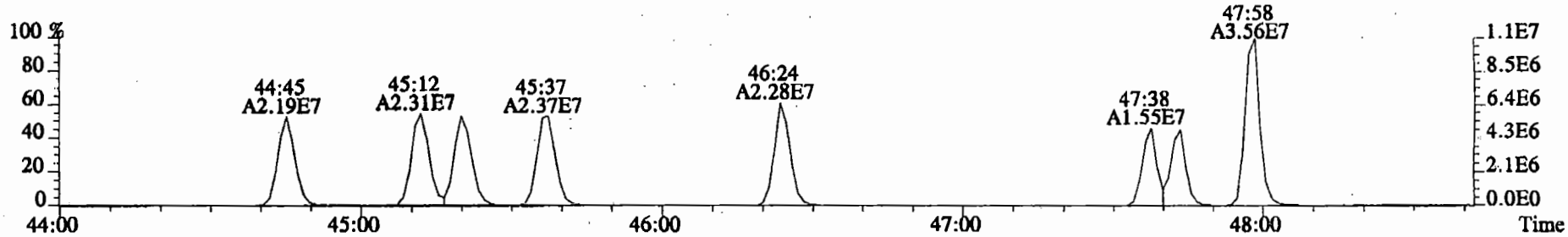
373.8788 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4332.0,0.00%,F,F)



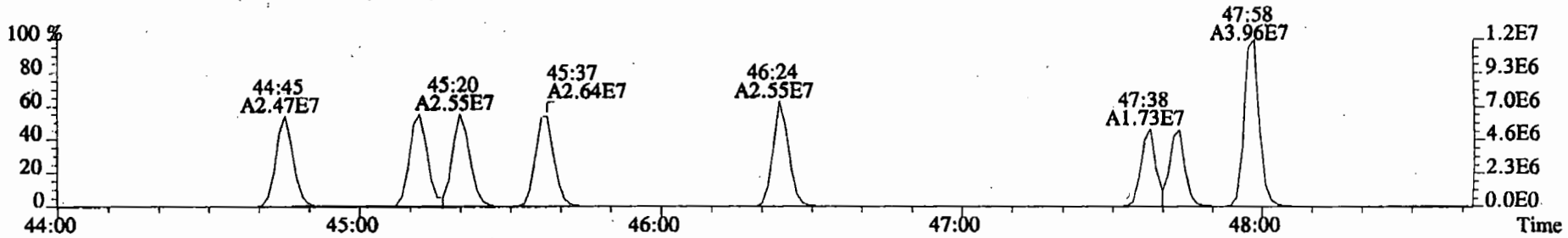
File:031020E3 #1-511 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1



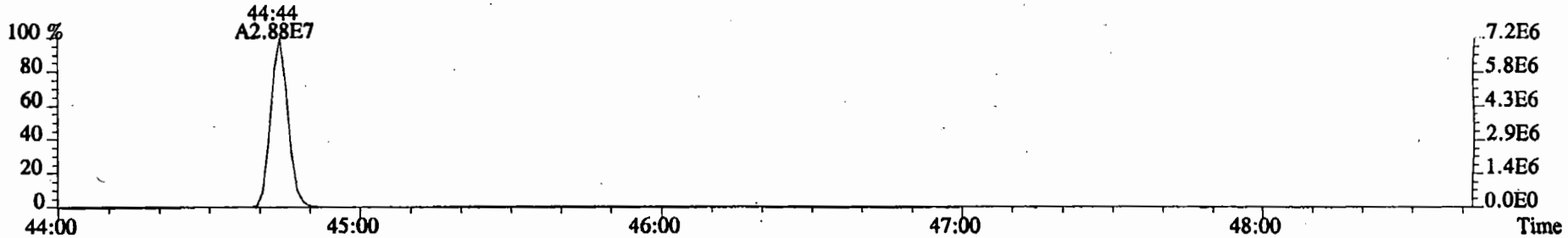
File:031020E3 #1-511 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
427.7635 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,316.0,0.00%,F,F)



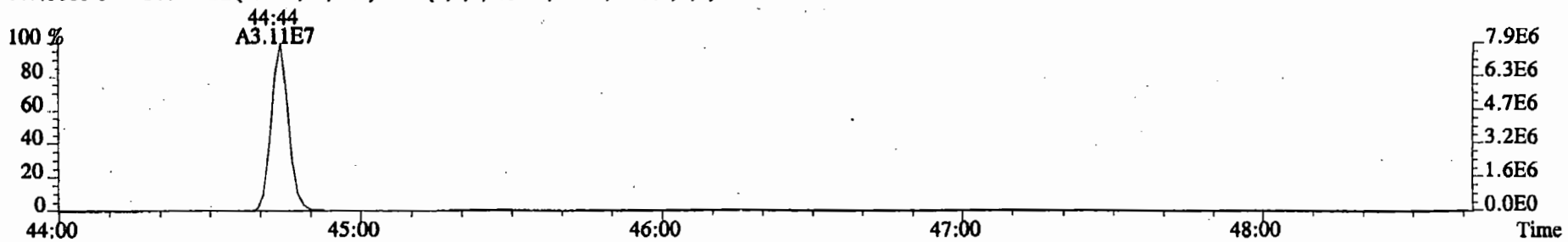
429.7606 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,424.0,0.00%,F,F)



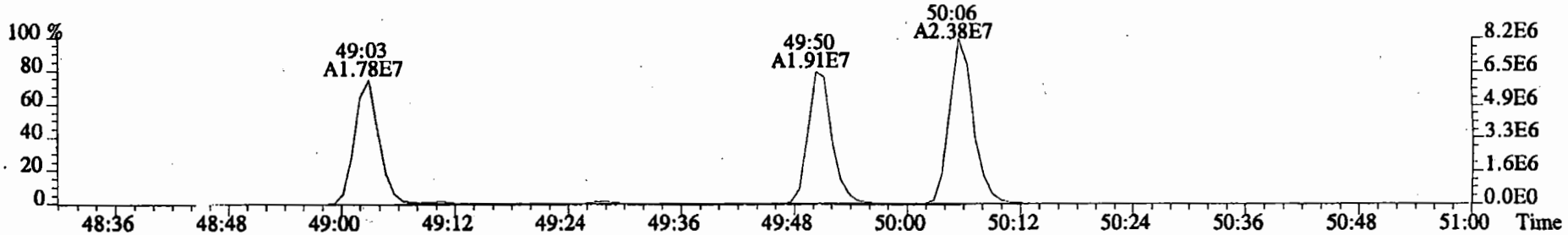
439.8038 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,276.0,0.00%,F,F)



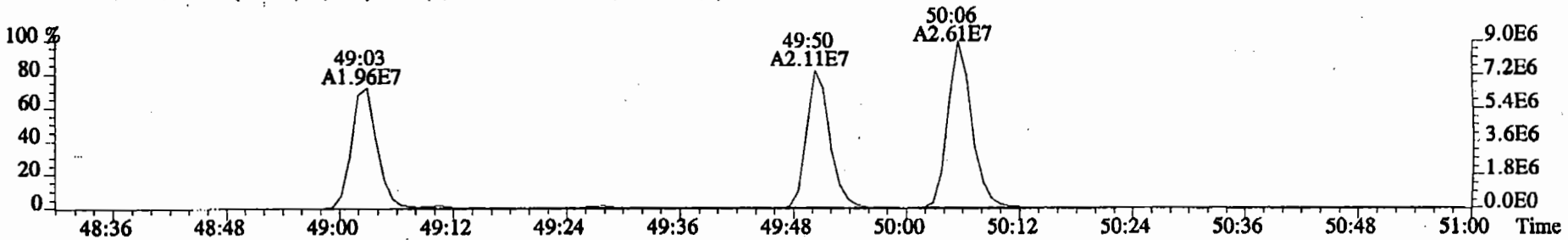
441.8008 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,324.0,0.00%,F,F)



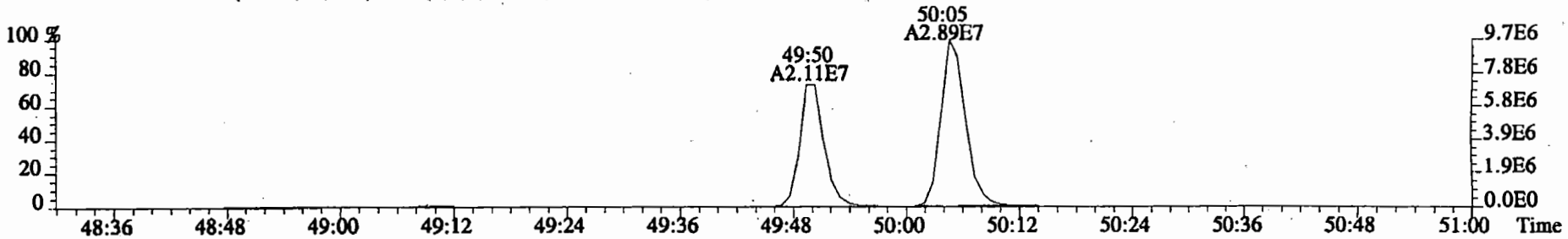
File:031020E3 #1-418 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
427.7635 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1124.0,0.00%,F,F)



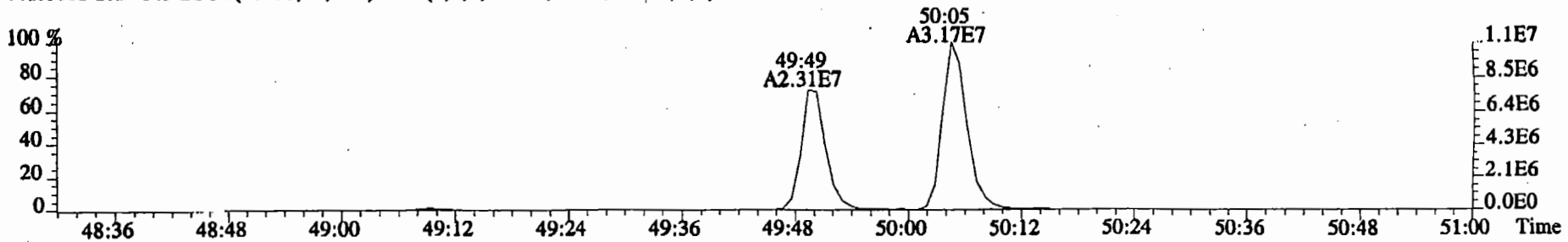
429.7606 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



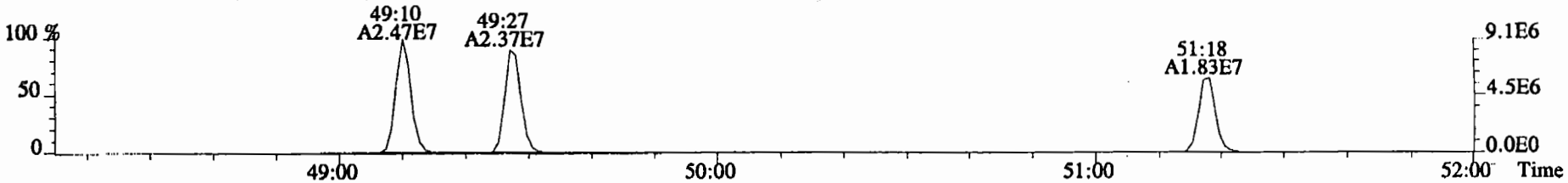
439.8038 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,264.0,0.00%,F,F)



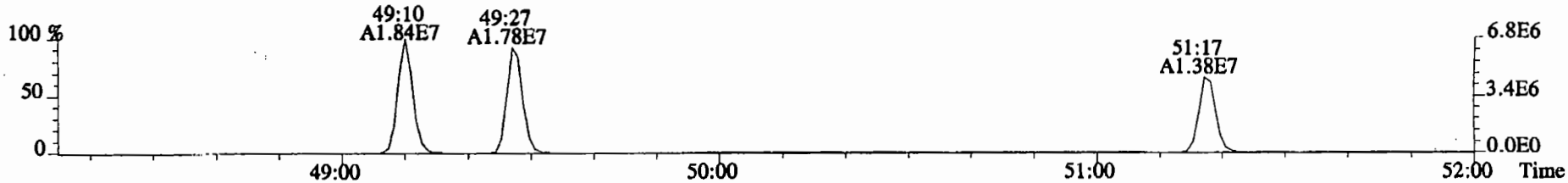
441.8008 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,268.0,0.00%,F,F)



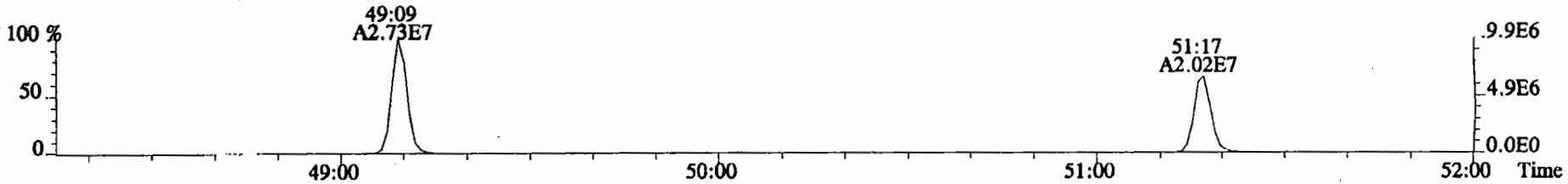
File:031020E3 #1-418 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
463.7216 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,508.0,0.00%,F,F)



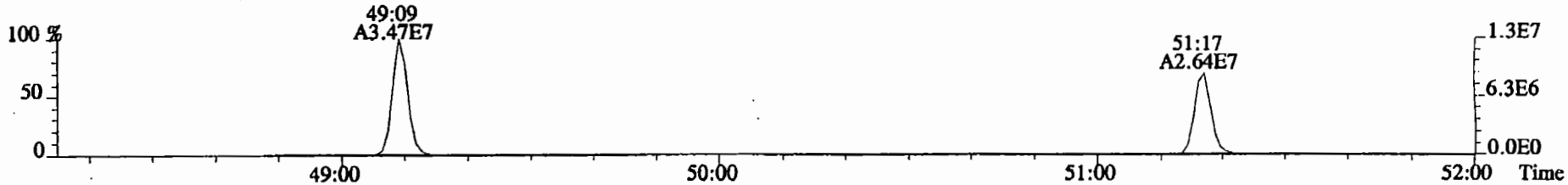
465.7186 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,308.0,0.00%,F,F)



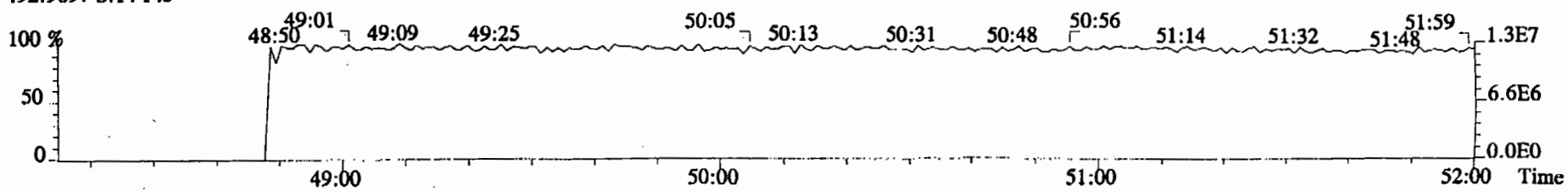
473.7648 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,264.0,0.00%,F,F)



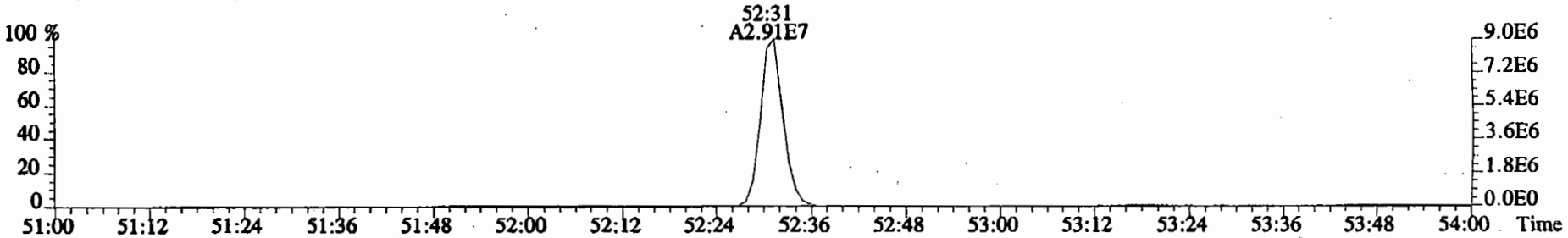
475.7619 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,252.0,0.00%,F,F)



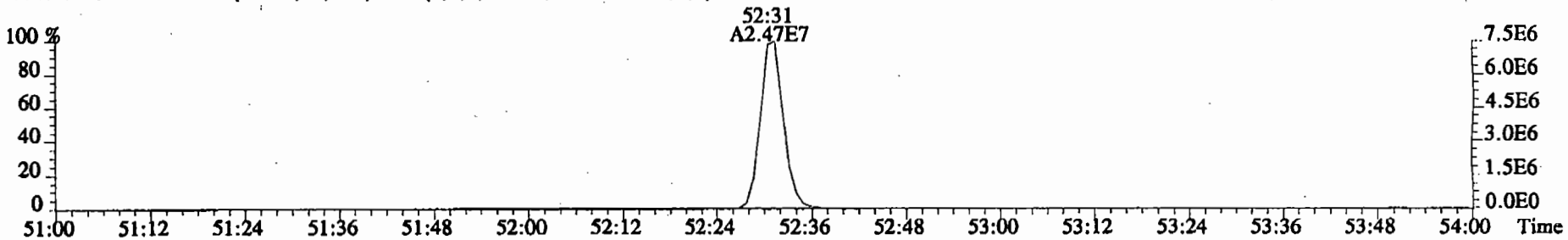
492.9697 S:14 F:5



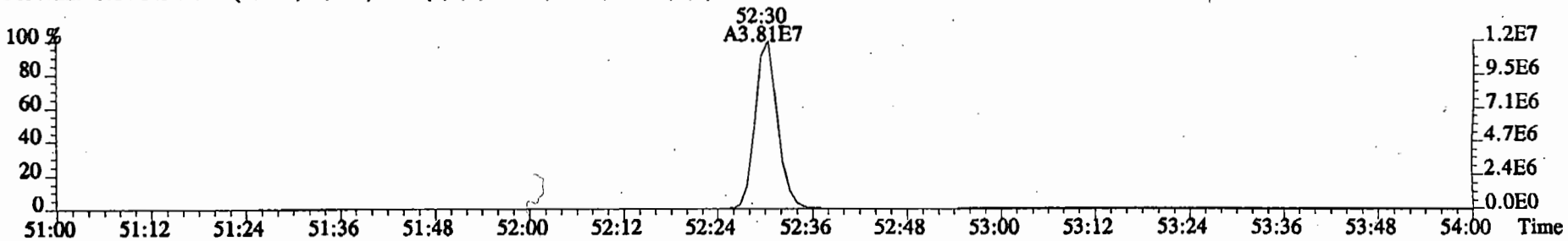
File:031020E3 #1-418 Acq:21-OCT-2003 16:32:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 File Text:Alta Analytical Laboratory Text:ST031020E3-2 PCB 209 CS3 030916G Exp:PCB_DB1
497.6826 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,324.0,0.00%,F,F)



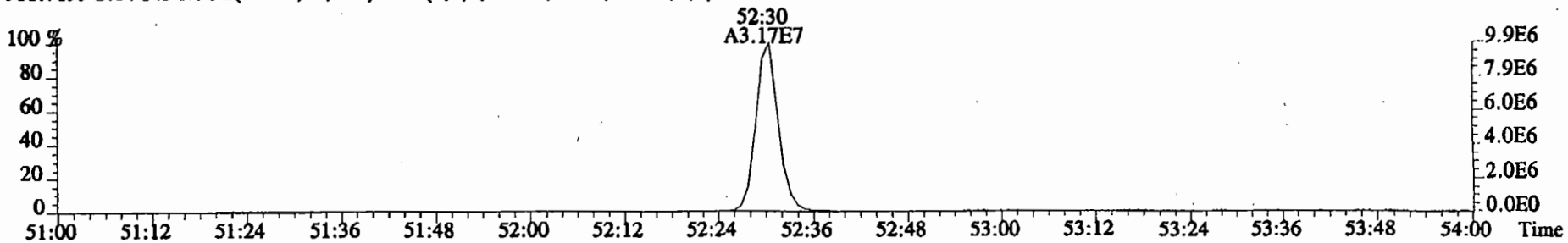
499.6797 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,248.0,0.00%,F,F)



509.7229 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,256.0,0.00%,F,F)

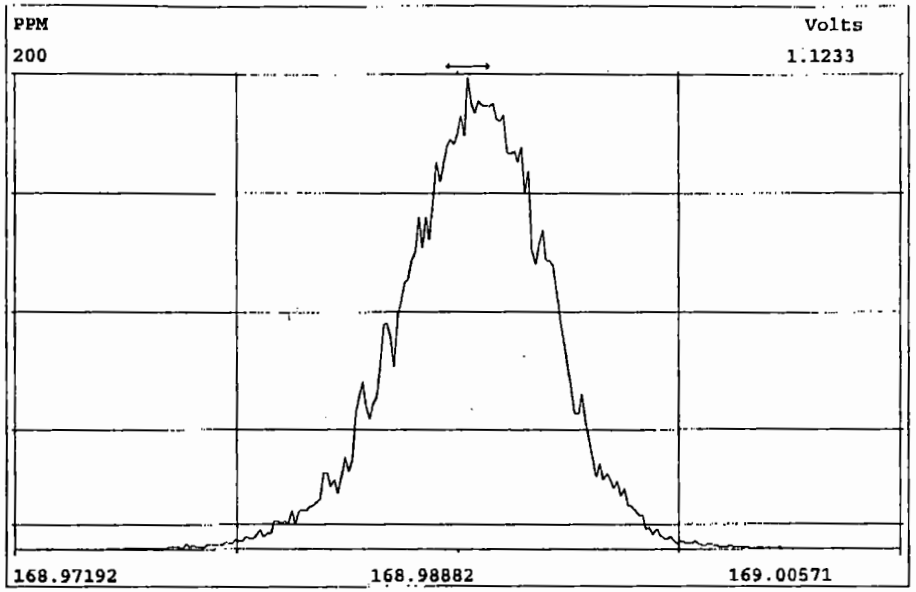


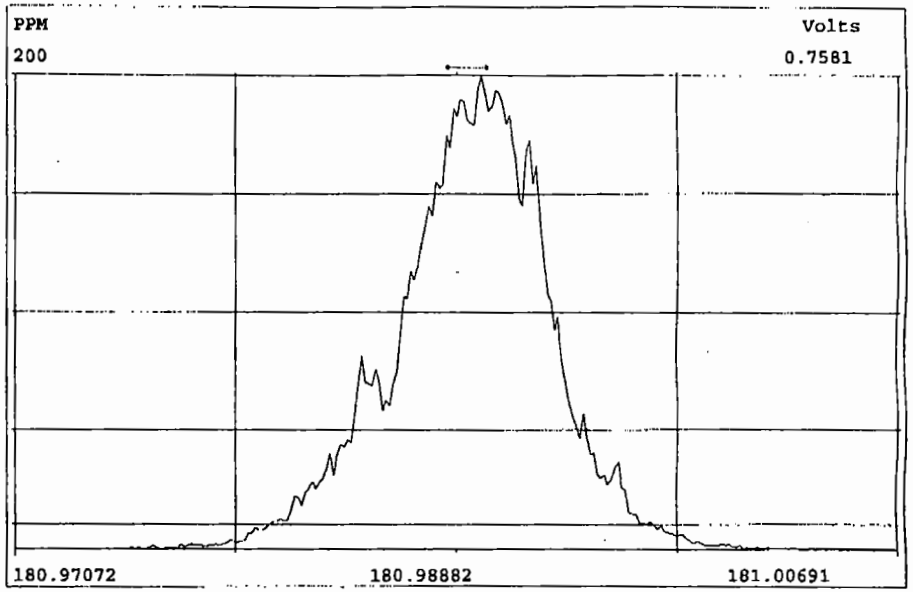
511.7199 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,216.0,0.00%,F,F)

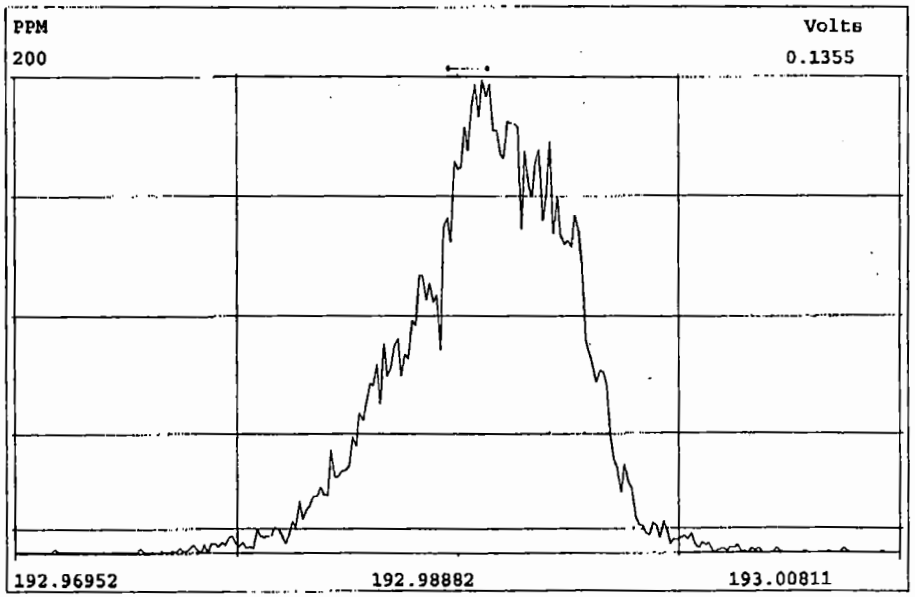


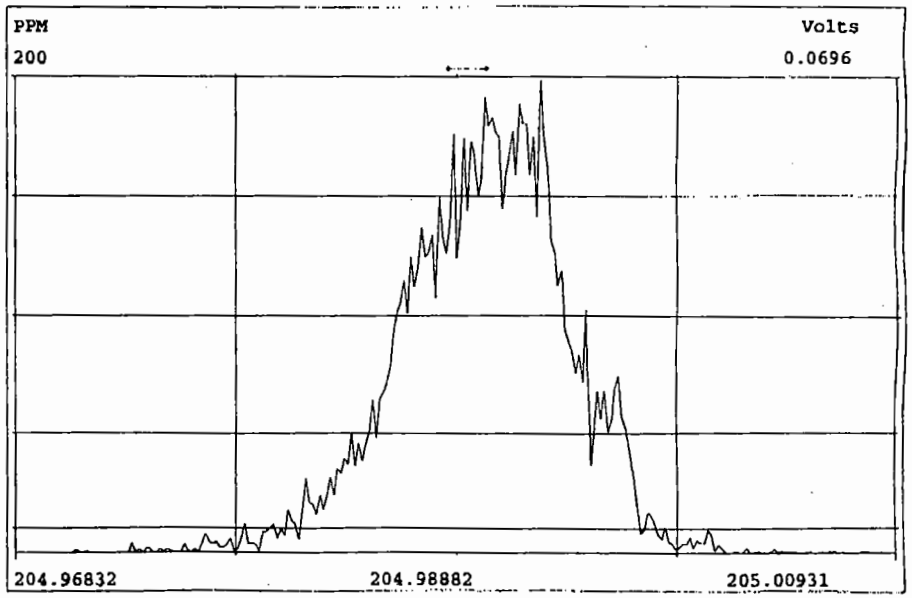
Peak Locate Examination:21-OCT-2003:17:40 File:RES_CHECK

Experiment:PCB_DB1 Function:1 Reference:PFK



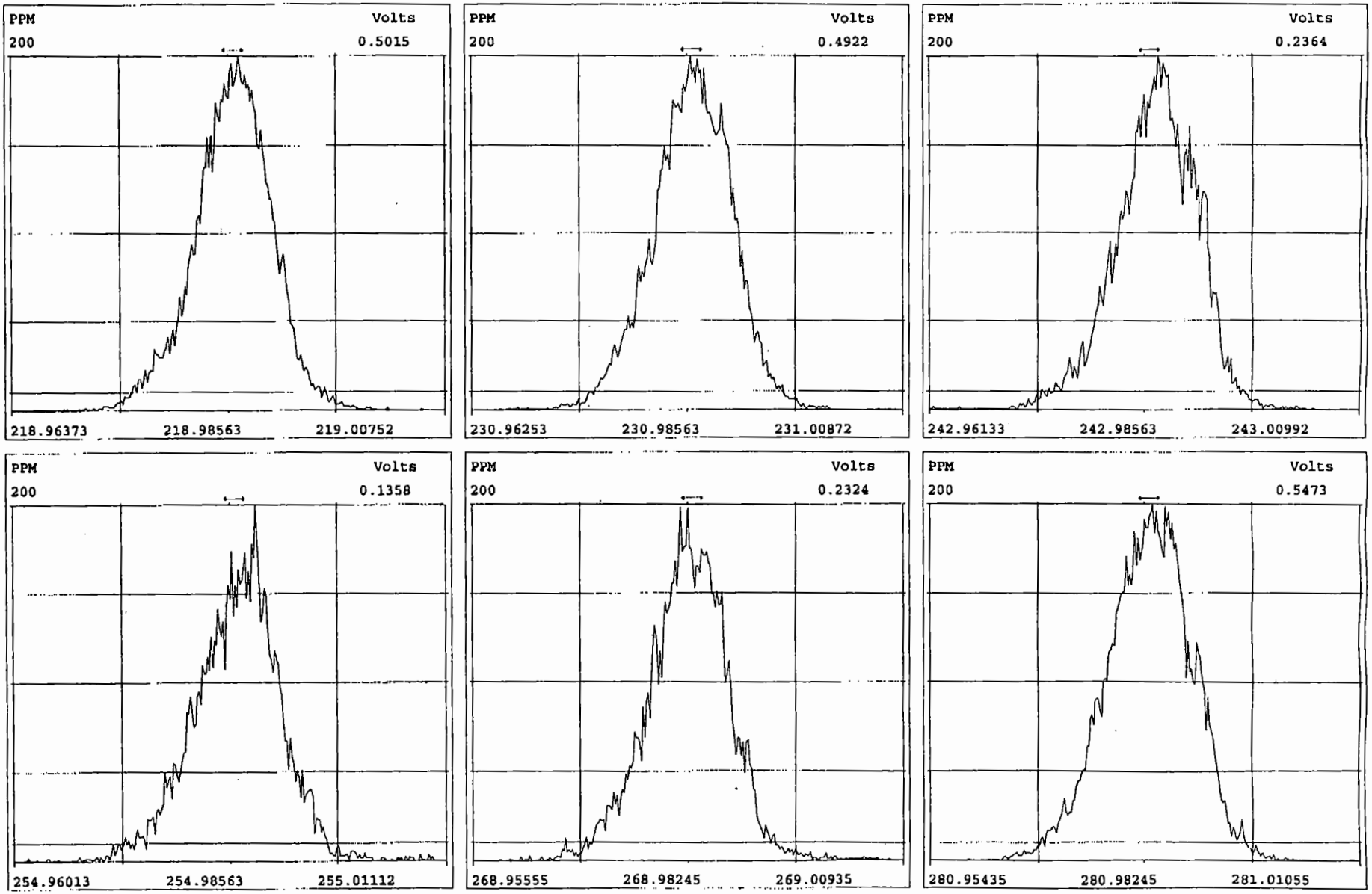






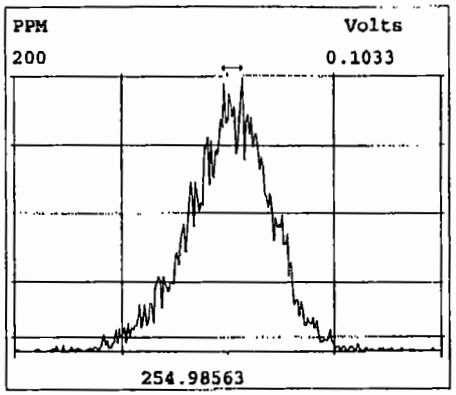
Peak Locate Examination:21-OCT-2003:17:41 File:RES_CHECK

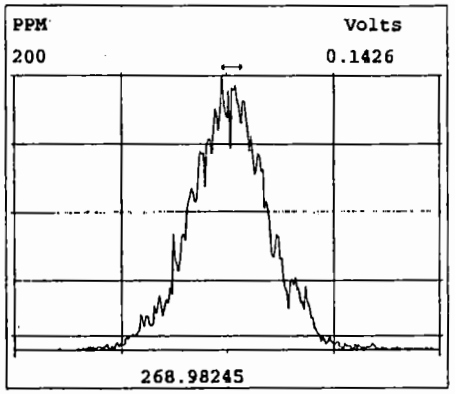
Experiment:PCB_DB1 Function:2 Reference:PFK

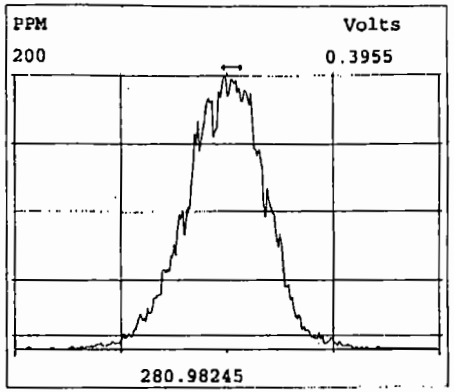


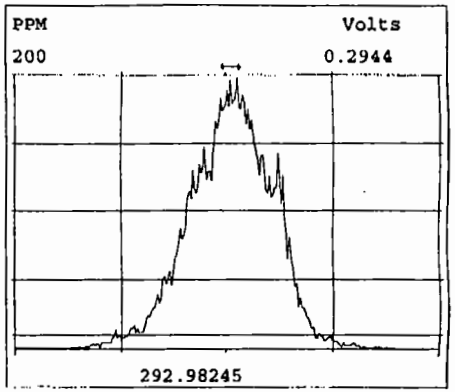
Peak Locate Examination:21-OCT-2003:17:42 File:RES_CHECK

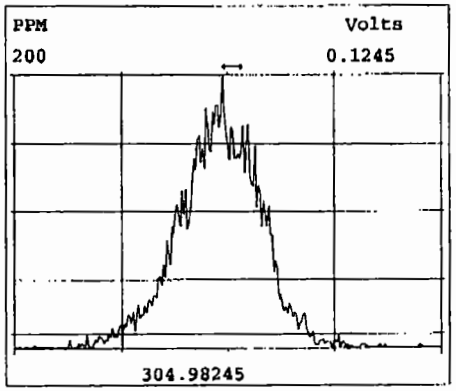
Experiment:PCB_DB1 Function:3 Reference:PFK

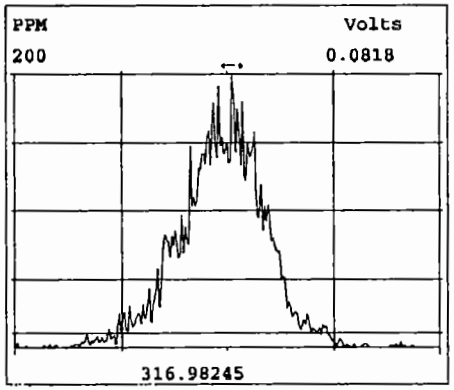


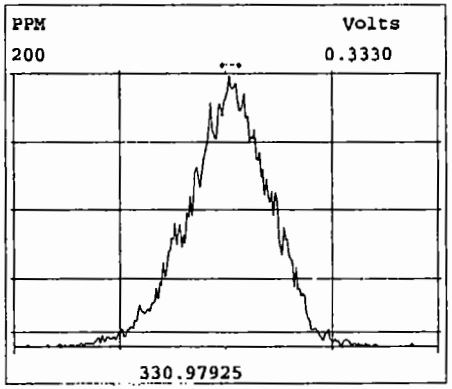


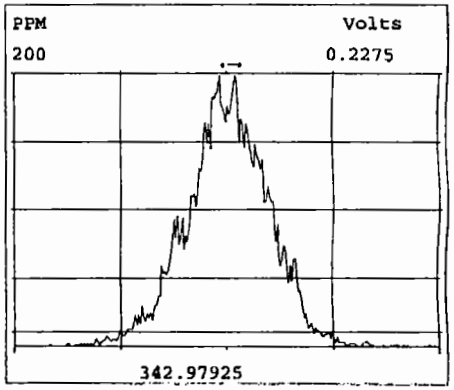


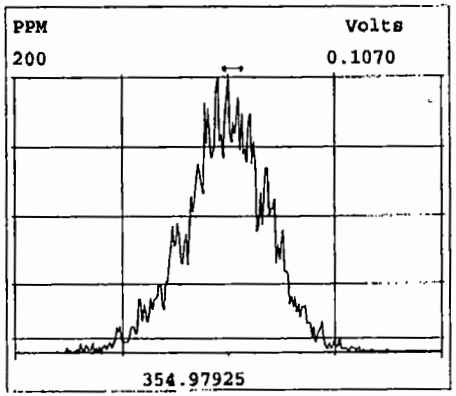


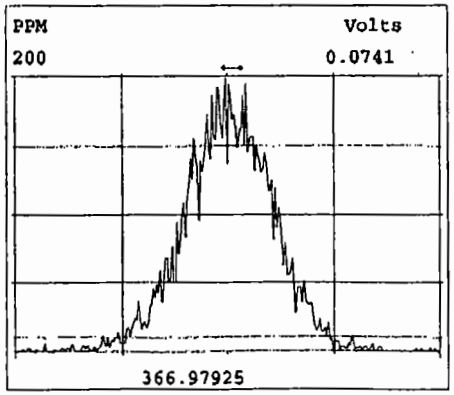


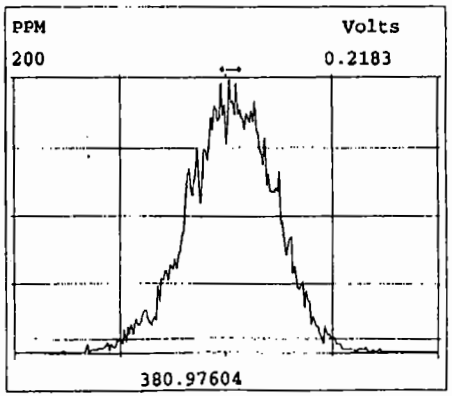






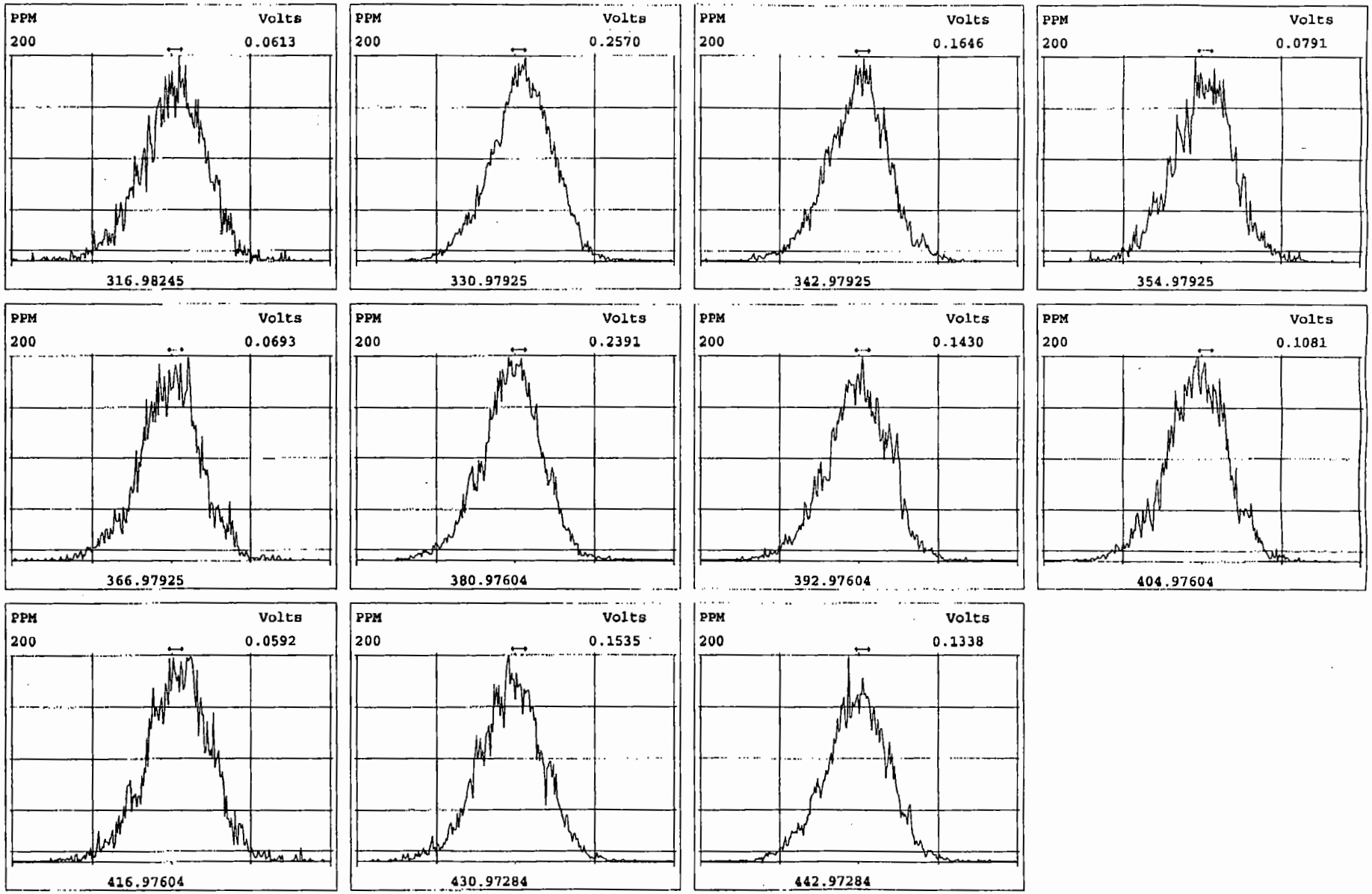






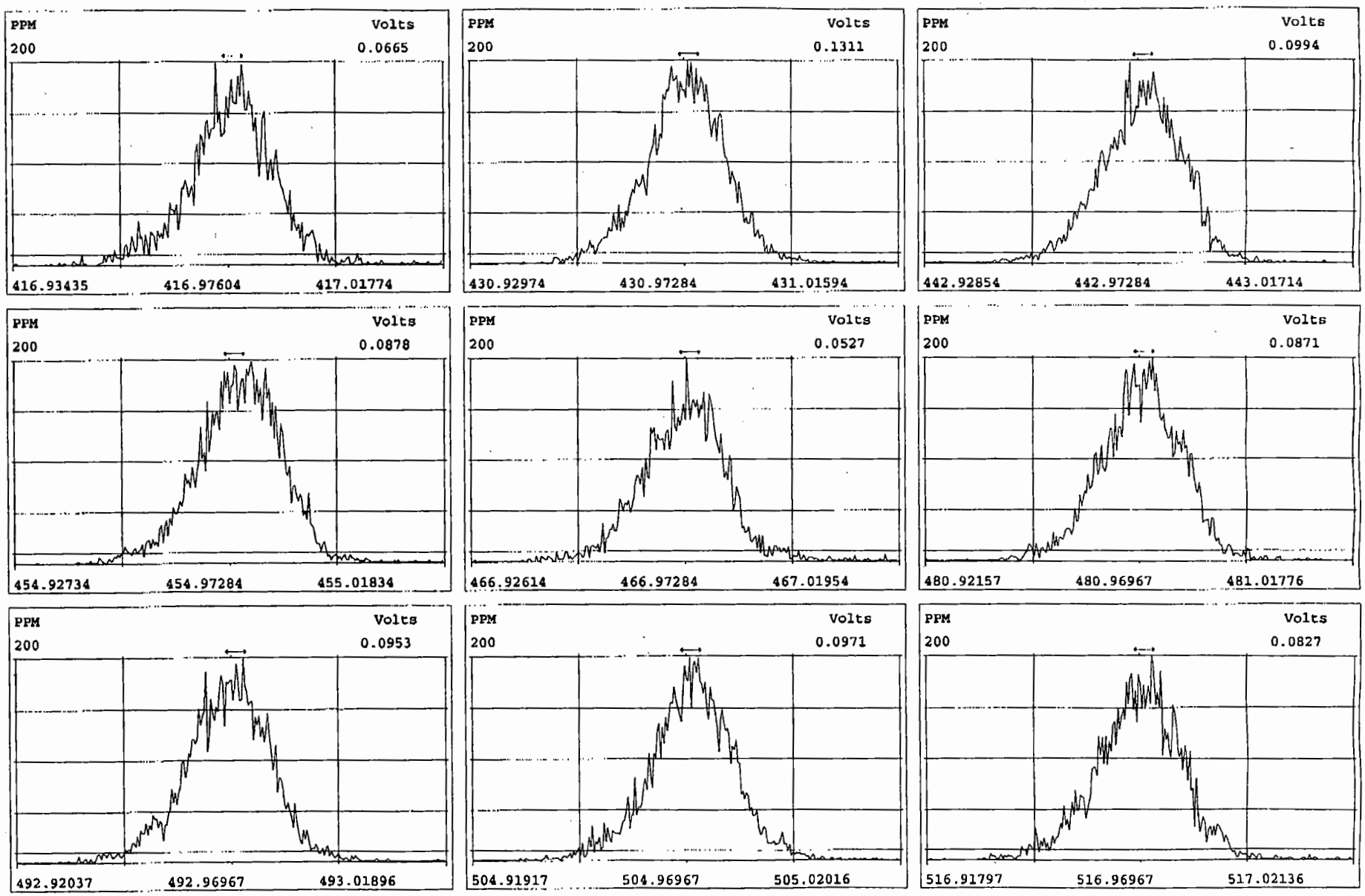
Peak Locate Examination:21-OCT-2003:17:43 File:RES_CHECK

Experiment:PCB_DB1 Function:4 Reference:PFK



Peak Locate Examination:21-OCT-2003:17:44 File:RES_CHECK

Experiment:PCB_DB1 Function:5 Reference:PFK



SDS: Method 12.3 → Soxhlet Dean Stark procedure of EPA 1668 Method

ALTA

Method Blank — **EPA Method 16**

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-MB001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03 TEQ(WHO-Mammal (1997)) : 0

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-1	ND	0.0250		PCB-41/64/71/72	ND	0.0500	
PCB-2	ND	0.0250		PCB-42/59	ND	0.0500	
PCB-3	ND	0.0250		PCB-43/49	ND	0.0500	
PCB-4/10	ND	0.0500		PCB-44	0.647	0.0500	
PCB-5/8	ND	0.0500		PCB-45	ND	0.0500	
PCB-6	ND	0.0500		PCB-46	ND	0.0500	
PCB-7/9	ND	0.0500		PCB-47	ND	0.0500	
PCB-11	0.0974	0.0500		PCB-48/75	ND	0.0500	
PCB-12/13	ND	0.0500		PCB-50	ND	0.0500	
PCB-14	ND	0.0500		PCB-51	ND	0.0500	
PCB-15	ND	0.0500		PCB-52/69	ND	0.0500	
PCB-16/32	ND	0.0250		PCB-53	ND	0.0500	
PCB-17	ND	0.0250		PCB-54	ND	0.0500	
PCB-18	ND	0.0250		PCB-55	ND	0.0500	
PCB-19	ND	0.0250		PCB-56/60	ND	0.0500	
PCB-20/21/33	ND	0.0250		PCB-57	ND	0.0500	
PCB-22	ND	0.0250		PCB-58	ND	0.0500	
PCB-23	ND	0.0250		PCB-61	ND	0.0500	
PCB-24/27	ND	0.0250		PCB-62	ND	0.0500	
PCB-25	ND	0.0250		PCB-63	ND	0.0500	
PCB-26	ND	0.0250		PCB-65	ND	0.0500	
PCB-28	ND	0.0250		PCB-66	ND	0.0500	
PCB-29	ND	0.0250		PCB-67	ND	0.0500	
PCB-30	ND	0.0250		PCB-68	ND	0.0500	
PCB-31	ND	0.0250		PCB-70	0.601	0.0500	
PCB-34	ND	0.0250		PCB-73	ND	0.0500	
PCB-35	ND	0.0250		PCB-74	ND	0.0500	
PCB-36	ND	0.0250		PCB-76	ND	0.0500	
PCB-37	ND	0.0250		PCB-77	ND	0.0500	
PCB-38	ND	0.0250		PCB-78	ND	0.0500	
PCB-39	ND	0.0250		PCB-79	ND	0.0500	
PCB-40	ND	0.0500		PCB-80	ND	0.0500	

ALTA

Method Blank

EPA Method 1668

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-MB001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03 TEQ(WHO-Mammal (1997)) : 0

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-81	ND	0.0500		PCB-124	ND	0.0500	
PCB-82	ND	0.0500		PCB-126	ND	0.0500	
PCB-83	ND	0.0500		PCB-127	ND	0.0500	
PCB-84/92	ND	0.0500		PCB-128/162	ND	0.0500	
PCB-85/116	ND	0.0500		PCB-129	ND	0.0500	
PCB-86	ND	0.0500		PCB-130	ND	0.0500	
PCB-87/117/125	ND	0.0500		PCB-131	ND	0.0500	
PCB-88/91	ND	0.0500		PCB-132/161	ND	0.0500	
PCB-89	ND	0.0500		PCB-133/142	ND	0.0500	
PCB-90/101	ND	0.0500		PCB-134/143	ND	0.0500	
PCB-93	ND	0.0500		PCB-135	ND	0.0500	
PCB-94	ND	0.0500		PCB-136	ND	0.0500	
PCB-95/98/102	ND	0.0500		PCB-137	ND	0.0500	
PCB-96	ND	0.0500		PCB-138/163/164	ND	0.0500	
PCB-97	ND	0.0500		PCB-139/149	ND	0.0500	
PCB-99	ND	0.0500		PCB-140	ND	0.0500	
PCB-100	ND	0.0500		PCB-141	ND	0.0500	
PCB-103	ND	0.0500		PCB-144	ND	0.0500	
PCB-104	ND	0.0500		PCB-145	ND	0.0500	
PCB-105	ND	0.0500		PCB-146/165	ND	0.0500	
PCB-106/118	ND	0.0500		PCB-147	ND	0.0500	
PCB-107/109	ND	0.0500		PCB-148	ND	0.0500	
PCB-108/112	ND	0.0500		PCB-150	ND	0.0500	
PCB-110	ND	0.0500		PCB-151	ND	0.0500	
PCB-111/115	ND	0.0500		PCB-152	ND	0.0500	
PCB-113	ND	0.0500		PCB-153	ND	0.0500	
PCB-114	ND	0.0500		PCB-154	ND	0.0500	
PCB-119	ND	0.0500		PCB-155	ND	0.0500	
PCB-120	ND	0.0500		PCB-156	ND	0.0500	
PCB-121	ND	0.0500		PCB-157	ND	0.0500	
PCB-122	ND	0.0500		PCB-158/160	ND	0.0500	
PCB-123	ND	0.0500		PCB-159	ND	0.0500	

Method Blank — EPA Method 16

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-MB001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03 TEQ(WHO-Mammal (1997)) : 0

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifi
PCB-166	ND	0.0500		PCB-199	ND	0.0750	
PCB-167	ND	0.0500		PCB-200	ND	0.0750	
PCB-168	ND	0.0500		PCB-201	ND	0.0750	
PCB-169	ND	0.0500		PCB-202	ND	0.0750	
PCB-170	ND	0.0500		PCB-204	ND	0.0750	
PCB-171	ND	0.0500		PCB-205	ND	0.0750	
PCB-172	ND	0.0500		PCB-206	ND	0.0750	
PCB-173	ND	0.0500		PCB-207	ND	0.0750	
PCB-174	ND	0.0500		PCB-208	ND	0.0750	
PCB-175	ND	0.0500		PCB-209	ND	0.0750	
PCB-176	ND	0.0500		Total monoCB	ND	0.0250	
PCB-177	ND	0.0500		Total diCB	0.0974	0.0500	
PCB-178	ND	0.0500		Total triCB	ND	0.0250	
PCB-179	ND	0.0500		Total tetraCB	1.25	0.0500	
PCB-180	ND	0.0500		Total pentaCB	ND	0.0500	
PCB-181	ND	0.0500		Total hexaCB	ND	0.0500	
PCB-182/187	ND	0.0500		Total heptaCB	ND	0.0500	
PCB-183	ND	0.0500		Total octaCB	ND	0.0750	
PCB-184	ND	0.0500		Total nonaCB	ND	0.0750	
PCB-185	ND	0.0500		Total decaCB	ND	0.0750	
PCB-186	ND	0.0500					
PCB-188	ND	0.0500					
PCB-189	ND	0.0500					
PCB-190	ND	0.0500					
PCB-191	ND	0.0500					
PCB-192	ND	0.0500					
PCB-193	ND	0.0500					
PCB-194	ND	0.0750					
PCB-195	ND	0.0750					
PCB-196/203	ND	0.0750					
PCB-197	ND	0.0750					
PCB-198	ND	0.0750					

Method Blank — EPA Method 1668

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-MB001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03

	Internal Standard	% Recovery	LCL - UCL		Qualifier
IS	13C-PCB-1	55.0	25	150	
	13C-PCB-3	56.6	25	150	
	13C-PCB-4	66.1	25	150	
	13C-PCB-9	72.3	25	150	
	13C-PCB-19	68.9	25	150	
	13C-PCB-28	74.0	25	150	
	13C-PCB-32	73.7	25	150	
	13C-PCB-37	81.3	25	150	
	13C-PCB-54	76.5	25	150	
	13C-PCB-77	84.7	25	150	
	13C-PCB-81	84.8	25	150	
	13C-PCB-95	87.3	25	150	
	13C-PCB-101	88.6	25	150	
	13C-PCB-104	90.1	25	150	
	13C-PCB-105	90.7	25	150	
	13C-PCB-114	95.8	25	150	
	13C-PCB-118	87.3	25	150	
	13C-PCB-123	92.3	25	150	
	13C-PCB-126	97.5	25	150	
	13C-PCB-153	91.4	25	150	
	13C-PCB-155	54.0	25	150	
	13C-PCB-156	88.7	25	150	
	13C-PCB-157	88.0	25	150	
	13C-PCB-167	91.6	25	150	
	13C-PCB-169	90.3	25	150	
	13C-PCB-170	77.4	25	150	
	13C-PCB-180	78.6	25	150	
	13C-PCB-188	79.1	25	150	
	13C-PCB-189	89.7	25	150	
	13C-PCB-194	81.6	25	150	

Method Blank

EPA Method 1668

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-MB001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03

	Internal Standard	% Recovery	LCL - UCL		Qualifier
IS	13C-PCB-202	54.1	25	150	
	13C-PCB-208	69.4	25	150	
	13C-PCB-206	76.0	25	150	
	13C-PCB-209	68.7	25	150	
CRS	13C-PCB-52	87.9	30	135	
	13C-PCB-178	83.4	30	135	

OPR Results — EPA Method 1..3

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-OPR001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03

Analyte	Spike Conc	Conc. (ng/mL)	OPR Limits
PCB-1	50.0	46.6	25 - 75
PCB-3	50.0	50.5	25 - 75
PCB-15	50.0	43.2	25 - 75
PCB-18	50.0	52.0	25 - 75
PCB-20/21/33	50.0	44.9	25 - 75
PCB-22	50.0	46.1	25 - 75
PCB-28	50.0	44.5	25 - 75
PCB-31	50.0	43.7	25 - 75
PCB-37	50.0	46.0	25 - 75
PCB-41/64/71/72	50.0	53.9	25 - 75
PCB-42/59	50.0	38.7	25 - 75
PCB-43/49	50.0	52.3	25 - 75
PCB-44	50.0	55.7	25 - 75
PCB-47	50.0	52.7	25 - 75
PCB-52/69	50.0	43.1	25 - 75
PCB-56/60	50.0	47.1	25 - 75
PCB-66	50.0	40.5	25 - 75
PCB-70	50.0	52.3	25 - 75
PCB-74	50.0	44.4	25 - 75
PCB-77	50.0	44.8	25 - 75
PCB-80	50.0	42.5	25 - 75
PCB-81	50.0	44.4	25 - 75
PCB-82	50.0	58.1	25 - 75
PCB-84/92	100	102	50 - 150
PCB-86	50.0	47.6	25 - 75
PCB-87/117/125	50.0	40.0	25 - 75
PCB-88/91	50.0	56.3	25 - 75
PCB-90/101	100	101	50 - 150
PCB-95/98/102	50.0	65.0	25 - 75
PCB-97	50.0	50.4	25 - 75
PCB-99	50.0	50.2	25 - 75
PCB-105	50.0	47.6	25 - 75
PCB-106/118	50.0	56.0	25 - 75
PCB-110	50.0	46.4	25 - 75
PCB-111/115	50.0	47.8	25 - 75
PCB-114	50.0	46.0	25 - 75
PCB-119	50.0	54.5	25 - 75
PCB-120	50.0	43.6	25 - 75

	Internal Standard	%R	LCL-UCL	IS Quali
IS	13C-PCB-1	86.7	25 - 150	
	13C-PCB-3	80.8	25 - 150	
	13C-PCB-4	89.5	25 - 150	
	13C-PCB-9	92.1	25 - 150	
	13C-PCB-19	89.3	25 - 150	
	13C-PCB-28	98.4	25 - 150	
	13C-PCB-32	94.5	25 - 150	
	13C-PCB-37	94.7	25 - 150	
	13C-PCB-54	92.0	25 - 150	
	13C-PCB-77	89.8	25 - 150	
	13C-PCB-81	92.4	25 - 150	
	13C-PCB-95	95.1	25 - 150	
	13C-PCB-101	96.5	25 - 150	
	13C-PCB-104	103	25 - 150	
	13C-PCB-105	100	25 - 150	
	13C-PCB-114	102	25 - 150	
	13C-PCB-118	90.9	25 - 150	
	13C-PCB-123	93.6	25 - 150	
	13C-PCB-126	100	25 - 150	
	13C-PCB-153	96.5	25 - 150	
	13C-PCB-155	57.9	25 - 150	
	13C-PCB-156	92.7	25 - 150	
	13C-PCB-157	90.9	25 - 150	
	13C-PCB-167	94.7	25 - 150	
	13C-PCB-169	94.0	25 - 150	
	13C-PCB-170	79.2	25 - 150	
	13C-PCB-180	82.3	25 - 150	
	13C-PCB-188	84.9	25 - 150	
	13C-PCB-189	86.3	25 - 150	
	13C-PCB-194	89.8	25 - 150	
	13C-PCB-202	55.4	25 - 150	
	13C-PCB-208	76.8	25 - 150	
	13C-PCB-206	83.2	25 - 150	
	13C-PCB-209	77.2	25 - 150	

ALTA

OPR Results — EPA Method 1668

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-OPR001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03

Analyte	Spike Conc	Conc. (ng/mL)	OPR Limits
PCB-123	50.0	50.7	25 - 75
PCB-126	50.0	47.0	25 - 75
PCB-127	50.0	47.8	25 - 75
PCB-128/162	50.0	38.4	25 - 75
PCB-132/161	50.0	34.3	25 - 75
PCB-135	50.0	59.4	25 - 75
PCB-136	50.0	56.4	25 - 75
PCB-137	50.0	48.8	25 - 75
PCB-138/163/164	50.0	38.6	25 - 75
PCB-139/149	50.0	58.8	25 - 75
PCB-141	50.0	44.8	25 - 75
PCB-146/165	50.0	41.4	25 - 75
PCB-151	50.0	58.4	25 - 75
PCB-153	50.0	48.3	25 - 75
PCB-156	50.0	47.8	25 - 75
PCB-157	50.0	48.1	25 - 75
PCB-158/160	50.0	48.3	25 - 75
PCB-166	50.0	47.4	25 - 75
PCB-167	50.0	49.2	25 - 75
PCB-168	50.0	48.7	25 - 75
PCB-169	50.0	46.8	25 - 75
PCB-170	50.0	50.8	25 - 75
PCB-171	50.0	46.2	25 - 75
PCB-174	50.0	47.8	25 - 75
PCB-177	50.0	44.3	25 - 75
PCB-178	50.0	46.7	25 - 75
PCB-179	50.0	45.7	25 - 75
PCB-180	125	125	62.5 - 187.5
PCB-182/187	50.0	44.3	25 - 75
PCB-183	50.0	54.3	25 - 75
PCB-184	50.0	48.6	25 - 75
PCB-185	50.0	51.0	25 - 75
PCB-189	50.0	47.9	25 - 75
PCB-190	50.0	49.0	25 - 75
PCB-191	50.0	47.3	25 - 75
PCB-194	50.0	46.8	25 - 75
PCB-195	50.0	46.3	25 - 75
PCB-196/203	100	97.7	50 - 150

ALTA

OPR Results — EPA Method 1668

Matrix:	Solid	QC Batch No.:	5267	Lab Sample:	0-OPR001
Sample Size:	1 g	Date Extracted:	17-Oct-03	Date Analyzed DB-1:	19-Oct-03

Analyte	Spike Conc	Conc. (ng/mL)	OPR Limits
PCB-198	50.0	50.8	25 - 75
PCB-199	50.0	49.5	25 - 75
PCB-201	50.0	56.0	25 - 75
PCB-202	50.0	54.4	25 - 75
PCB-205	50.0	51.3	25 - 75
PCB-206	50.0	54.1	25 - 75
PCB-207	50.0	57.1	25 - 75
PCB-208	50.0	50.3	25 - 75
PCB-209	50.0	46.8	25 - 75

ALTA

Sample ID: 62253701 — **EPA Method 1668**

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-001	Date Received:	17-Oct
Project:	LOO-5SDN48	Sample Size:	1.08 g	QC Batch No.:	5267	Date Extracted:	17-Oct
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0176
Time Collected:	NA						

Analyte	Conc. (ng/g) ppb	RL	Qualifiers
PCB-1	ND	1.16	
PCB-2	2.50	1.16	
PCB-3	0.190	1.16	A
PCB-4/10	ND	2.31	
PCB-5/8	4.40	2.31	
PCB-6	3.73	2.31	
PCB-7/9	3.21	2.31	
PCB-11	3.35	2.31	B
PCB-12/13	2.52	2.31	
PCB-14	ND	2.31	
PCB-15	ND	2.31	
PCB-16/32	11.3	1.16	
PCB-17	0.795	1.16	A
PCB-18	66.0	1.16	
PCB-19	ND	1.16	
PCB-20/21/33	354	1.16	
PCB-22	68.6	1.16	
PCB-23	ND	1.16	
PCB-24/27	ND	1.16	
PCB-25	0.880	1.16	A
PCB-26	9.14	1.16	
PCB-28	ND	1.16	
PCB-29	ND	1.16	
PCB-30	ND	1.16	
PCB-31	157	1.16	
PCB-34	ND	1.16	
PCB-35	167	1.16	
PCB-36	ND	1.16	
PCB-37	51.6	1.16	
PCB-38	ND	1.16	
PCB-39	ND	1.16	
PCB-40	151	2.31	

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-41/64/71/72	15.2	2.31	
PCB-42/59	250	2.31	
PCB-43/49	39.6	2.31	
PCB-44	101000	4.62	*
PCB-45	ND	2.31	
PCB-46	6.88	2.31	
PCB-47	ND	2.31	
PCB-48/75	ND	2.31	
PCB-50	ND	2.31	
PCB-51	ND	2.31	
PCB-52/69	1560	2.31	
PCB-53	16.0	2.31	
PCB-54	ND	2.31	
PCB-55	ND	2.31	
PCB-56/60	293	2.31	
PCB-57	ND	2.31	
PCB-58	ND	2.31	
PCB-61	ND	2.31	
PCB-62	ND	2.31	
PCB-63	ND	2.31	
PCB-65	ND	2.31	
PCB-66	226	2.31	
PCB-67	ND	2.31	
PCB-68	ND	2.31	
PCB-70	61900 62 ppm	4.62	*
PCB-73	ND	2.31	
PCB-74	ND	2.31	
PCB-76	ND	2.31	
PCB-77	84.7	2.31	
PCB-78	ND	2.31	
PCB-79	ND	2.31	
PCB-80	ND	2.31	

ALTA

Sample ID: 62253701

EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-001	Date Received:	17-Oct
Project:	LOO-5SDN48	Sample Size:	1.08 g	QC Batch No.:	5267	Date Extracted:	17-Oct
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0.0176
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-81	ND	2.31		PCB-124	ND	4.46	I
PCB-82	0.419	2.31	A	PCB-126	ND	2.31	
PCB-83	ND	2.31		PCB-127	ND	2.31	
PCB-84/92	40.5	2.31		PCB-128/162	0.226	2.31	A
PCB-85/116	ND	2.31		PCB-129	ND	2.31	
PCB-86	ND	2.31		PCB-130	ND	2.31	
PCB-87/117/125	5.60	2.31		PCB-131	ND	2.31	
PCB-88/91	1.07	2.31	A	PCB-132/161	ND	2.31	
PCB-89	ND	2.31		PCB-133/142	20.6	2.31	
PCB-90/101	47.0	2.31		PCB-134/143	ND	2.31	
PCB-93	ND	2.31		PCB-135	ND	2.31	
PCB-94	ND	2.31		PCB-136	ND	2.31	
PCB-95/98/102	248	2.31		PCB-137	ND	2.31	
PCB-96	ND	2.31		PCB-138/163/164	ND	2.31	
PCB-97	126	2.31		PCB-139/149	0.337	2.31	A
PCB-99	ND	2.31		PCB-140	ND	2.31	
PCB-100	ND	2.31		PCB-141	0.855	2.31	A
PCB-103	ND	2.31		PCB-144	0.588	2.31	A
PCB-104	ND	2.31		PCB-145	ND	2.31	
PCB-105	0.314	2.31	A	PCB-146/165	ND	2.31	
PCB-106/118	90.0	2.31		PCB-147	ND	2.31	
PCB-107/109	0.225	2.31	A	PCB-148	ND	2.31	
PCB-108/112	ND	2.31		PCB-150	ND	2.31	
PCB-110	14.9	2.31		PCB-151	ND	2.31	
PCB-111/115	ND	2.31		PCB-152	ND	2.31	
PCB-113	ND	2.31		PCB-153	0.190	2.31	A
PCB-114	ND	2.31		PCB-154	ND	2.31	
PCB-119	ND	2.31		PCB-155	ND	2.31	
PCB-120	ND	2.31		PCB-156	0.170	2.31	A
PCB-121	ND	2.31		PCB-157	ND	2.31	
PCB-122	ND	2.31		PCB-158/160	15.0	2.31	
PCB-123	ND	2.31		PCB-159	ND	2.31	

ALTA

Sample ID: 62253701 — **EPA Method 1668**

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-001	Date Received:	17-Oct-
Project:	LOO-5SDN48	Sample Size:	1.08 g	QC Batch No.:	5267	Date Extracted:	17-Oct
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0176
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-166	ND	2.31	
PCB-167	ND	2.31	
PCB-168	ND	2.31	
PCB-169	ND	2.31	
PCB-170	ND	2.31	
PCB-171	ND	2.31	
PCB-172	ND	2.31	
PCB-173	ND	2.31	
PCB-174	ND	2.31	
PCB-175	ND	2.31	
PCB-176	ND	2.31	
PCB-177	ND	2.31	
PCB-178	ND	2.31	
PCB-179	ND	2.31	
PCB-180	0.195	2.31	A
PCB-181	ND	2.31	
PCB-182/187	ND	2.31	
PCB-183	ND	2.31	
PCB-184	ND	2.31	
PCB-185	ND	2.31	
PCB-186	ND	2.31	
PCB-188	ND	2.31	
PCB-189	0.143	2.31	A
PCB-190	ND	2.31	
PCB-191	ND	2.31	
PCB-192	ND	2.31	
PCB-193	ND	2.31	
PCB-194	ND	3.47	
PCB-195	ND	3.47	
PCB-196/203	ND	3.47	
PCB-197	ND	3.47	
PCB-198	ND	3.47	

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-199	ND	3.47	
PCB-200	ND	3.47	
PCB-201	ND	3.47	
PCB-202	ND	3.47	
PCB-204	ND	3.47	
PCB-205	ND	3.47	
PCB-206	0.140	3.47	A
PCB-207	ND	3.47	
PCB-208	0.0717	3.47	A
PCB-209	ND	3.47	
Total monoCB	2.69	1.16	
Total diCB	17.2	2.31	B
Total triCB	745	1.16	
Total tetraCB	166000 166.	2.31	B,*
Total pentaCB	573	2.31	
Total hexaCB	38.0	2.31	
Total heptaCB	0.338	2.31	
Total octaCB	ND	3.47	
Total nonaCB	0.212	3.47	
Total decaCB	ND	3.47	

ALTA

Sample ID: 62753701 **EPA Method 1668**

Client Data
Name: Clariant Corporation
Project: LOO-5SDN48
Date Collected: 16-Oct-03
Time Collected: NA

Sample Data
Matrix: Solid
Sample Size: 1.08 g
%Solids: 100

Laboratory Data
Lab Sample: 24292-001 Date Received: 17-Oct-03
QC Batch No.: 5267 Date Extracted: 17-Oct-03
Date Analyzed DB-1: 19-Oct-03

	Internal Standard	% Recovery	LCL	UCL	Qualifier
IS	13C-PCB-1	78.1	25	150	
	13C-PCB-3	75.1	25	150	
	13C-PCB-4	81.4	25	150	
	13C-PCB-9	86.8	25	150	
	13C-PCB-19	82.0	25	150	
	13C-PCB-28	90.9	25	150	
	13C-PCB-32	87.3	25	150	
	13C-PCB-37	91.4	25	150	
	13C-PCB-54	76.5	25	150	
	13C-PCB-77	87.5	25	150	
	13C-PCB-81	89.7	25	150	
	13C-PCB-95	95.1	25	150	
	13C-PCB-101	87.0	25	150	
	13C-PCB-104	88.0	25	150	
	13C-PCB-105	96.7	25	150	
	13C-PCB-114	94.2	25	150	
	13C-PCB-118	97.0	25	150	
	13C-PCB-123	96.6	25	150	
	13C-PCB-126	98.9	25	150	
	13C-PCB-153	93.1	25	150	
	13C-PCB-155	55.3	25	150	
	13C-PCB-156	95.8	25	150	
	13C-PCB-157	97.8	25	150	
	13C-PCB-167	95.1	25	150	
	13C-PCB-169	109	25	150	
	13C-PCB-170	91.6	25	150	
	13C-PCB-180	93.1	25	150	
	13C-PCB-188	76.7	25	150	
	13C-PCB-189	95.9	25	150	
	13C-PCB-194	84.8	25	150	

ALTA

Sample ID: 62253701 — EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-001	Date Received:	17-Oct-03
Project:	LOO-5SDN48	Sample Size:	1.08 g	QC Batch No.:	5267	Date Extracted:	17-Oct-03
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03		
Time Collected:	NA						

Internal Standard		% Recovery	LCL	UCL	Qualifier
IS	13C-PCB-202	56.6	25	150	
	13C-PCB-208	76.3	25	150	
	13C-PCB-206	82.2	25	150	
	13C-PCB-209	76.7	25	150	
CRS	13C-PCB-52	95.8	30	135	
	13C-PCB-178	92.1	30	135	

ALTA

Sample ID: 7USEA000373

EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-002	Date Received:	17-Oct
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0.0481
Time Collected:	NA						

Analyte	Conc. (ng/g) ppb	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-1	0.330	1.30	A	PCB-41/64/71/72	52.3	2.60	
PCB-2	16.8	1.30		PCB-42/59	917	2.60	
PCB-3	2.82	1.30		PCB-43/49	140	2.60	
PCB-4/10	ND	2.60		PCB-44	232000	5.20	*
PCB-5/8	6.23	2.60		PCB-45	ND	2.60	
PCB-6	15.1	2.60		PCB-46	32.5	2.60	
PCB-7/9	9.97	2.60		PCB-47	ND	2.60	
PCB-11	10.3	2.60	B	PCB-48/75	ND	2.60	
PCB-12/13	4.08	2.60		PCB-50	ND	2.60	
PCB-14	ND	2.60		PCB-51	ND	2.60	
PCB-15	ND	2.60		PCB-52/69	4990	2.60	
PCB-16/32	10.5	1.30		PCB-53	51.8	2.60	
PCB-17	2.05	1.30		PCB-54	ND	2.60	
PCB-18	178	1.30		PCB-55	ND	2.60	
PCB-19	ND	1.30		PCB-56/60	1260	2.60	
PCB-20/21/33	1320	1.30		PCB-57	ND	2.60	
PCB-22	177	1.30		PCB-58	ND	2.60	
PCB-23	ND	1.30		PCB-61	ND	2.60	
PCB-24/27	0.935	1.30	A	PCB-62	ND	2.60	
PCB-25	4.60	1.30		PCB-63	ND	2.60	
PCB-26	36.8	1.30		PCB-65	ND	2.60	
PCB-28	1.84	1.30		PCB-66	619	2.60	
PCB-29	ND	1.30		PCB-67	ND	2.60	
PCB-30	ND	1.30		PCB-68	ND	2.60	
PCB-31	62.1	1.30		PCB-70	119000 119ppm	5.20	*
PCB-34	ND	1.30		PCB-73	ND	2.60	
PCB-35	486	1.30		PCB-74	ND	2.60	
PCB-36	ND	1.30		PCB-76	ND	2.60	
PCB-37	97.0	1.30		PCB-77	316	2.60	
PCB-38	ND	1.30		PCB-78	ND	2.60	
PCB-39	ND	1.30		PCB-79	ND	2.60	
PCB-40	562	2.60		PCB-80	ND	2.60	

ALTA

Sample ID: USEA000373 — **EPA Method 1668**

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-002	Date Received:	17-Oct-
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct-
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997)) :	0.0481
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifi
PCB-81	ND	2.60		PCB-124	ND	5.51	I
PCB-82	1.37	2.60	A	PCB-126	ND	2.60	
PCB-83	ND	2.60		PCB-127	ND	2.60	
PCB-84/92	147	2.60		PCB-128/162	ND	2.60	
PCB-85/116	ND	2.60		PCB-129	ND	2.60	
PCB-86	ND	2.60		PCB-130	ND	2.60	
PCB-87/117/125	16.2	2.60		PCB-131	ND	2.60	
PCB-88/91	3.03	2.60		PCB-132/161	ND	2.60	
PCB-89	ND	2.60		PCB-133/142	50.0	2.60	
PCB-90/101	170	2.60		PCB-134/143	ND	2.60	
PCB-93	ND	2.60		PCB-135	ND	2.60	
PCB-94	ND	2.60		PCB-136	ND	2.60	
PCB-95/98/102	538	2.60		PCB-137	ND	2.60	
PCB-96	ND	2.60		PCB-138/163/164	ND	2.60	
PCB-97	261	2.60		PCB-139/149	0.766	2.60	A
PCB-99	1.23	2.60	A	PCB-140	ND	2.60	
PCB-100	ND	2.60		PCB-141	1.39	2.60	A
PCB-103	ND	2.60		PCB-144	1.22	2.60	A
PCB-104	ND	2.60		PCB-145	ND	2.60	
PCB-105	1.13	2.60	A	PCB-146/165	ND	2.60	
PCB-106/118	164	2.60		PCB-147	ND	2.60	
PCB-107/109	0.849	2.60	A	PCB-148	ND	2.60	
PCB-108/112	0.452	2.60	A	PCB-150	ND	2.60	
PCB-110	37.8	2.60		PCB-151	3.35	2.60	
PCB-111/115	ND	2.60		PCB-152	ND	2.60	
PCB-113	ND	2.60		PCB-153	ND	2.60	
PCB-114	ND	2.60		PCB-154	ND	2.60	
PCB-119	0.804	2.60	A	PCB-155	ND	2.60	
PCB-120	ND	2.60		PCB-156	ND	2.60	
PCB-121	ND	2.60		PCB-157	ND	2.60	
PCB-122	ND	2.60		PCB-158/160	29.2	2.60	
PCB-123	ND	2.60		PCB-159	ND	2.60	

ALTA

Sample ID: USEA000373 — **EPA Method 1668**

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-002	Date Received:	17-Oct-
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct-
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0481
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-166	ND	2.60	
PCB-167	ND	2.60	
PCB-168	ND	2.60	
PCB-169	ND	2.60	
PCB-170	ND	2.60	
PCB-171	ND	2.60	
PCB-172	ND	2.60	
PCB-173	ND	2.60	
PCB-174	ND	2.60	
PCB-175	ND	2.60	
PCB-176	ND	2.60	
PCB-177	ND	2.60	
PCB-178	ND	2.60	
PCB-179	ND	2.60	
PCB-180	ND	2.60	
PCB-181	ND	2.60	
PCB-182/187	ND	2.60	
PCB-183	ND	2.60	
PCB-184	ND	2.60	
PCB-185	ND	2.60	
PCB-186	ND	2.60	
PCB-188	ND	2.60	
PCB-189	ND	2.60	
PCB-190	ND	2.60	
PCB-191	ND	2.60	
PCB-192	ND	2.60	
PCB-193	ND	2.60	
PCB-194	0.129	3.91	A
PCB-195	0.158	3.91	A
PCB-196/203	ND	3.91	
PCB-197	ND	3.91	
PCB-198	ND	3.91	

Analyte	Conc. (ng/g)	RL	Qualifi
PCB-199	ND	3.91	
PCB-200	ND	3.91	
PCB-201	ND	3.91	
PCB-202	ND	3.91	
PCB-204	ND	3.91	
PCB-205	ND	3.91	
PCB-206	ND	3.91	
PCB-207	ND	3.91	
PCB-208	ND	3.91	
PCB-209	ND	3.91	
Total monoCB	20.0	1.30	
Total diCB	45.7	2.60	B
Total triCB	2380	1.30	
Total tetraCB	360000	2.60	B,*
Total pentaCB	1340	2.60	
Total hexaCB	85.9	2.60	
Total heptaCB	ND	2.60	
Total octaCB	0.287	3.91	
Total nonaCB	ND	3.91	
Total decaCB	ND	3.91	

ALTA

Sample ID: USEA000373

EPA Method 1668

Client Data
Name: Clariant Corporation
Project: LOO-5SDN48
Date Collected: 16-Oct-03
Time Collected: NA

Sample Data
Matrix: Solid
Sample Size: 0.96 g
%Solids: 100

Laboratory Data
Lab Sample: 24292-002
QC Batch No.: 5267
Date Analyzed DB-1: 19-Oct-03
Date Received: 17-Oct-03
Date Extracted: 17-Oct-03

Internal Standard		% Recovery	LCL	UCL	Qualifier
IS	13C-PCB-1	64.2	25	150	
	13C-PCB-3	64.9	25	150	
	13C-PCB-4	73.3	25	150	
	13C-PCB-9	82.7	25	150	
	13C-PCB-19	76.1	25	150	
	13C-PCB-28	72.4	25	150	
	13C-PCB-32	77.9	25	150	
	13C-PCB-37	97.0	25	150	
	13C-PCB-54	75.3	25	150	
	13C-PCB-77	86.3	25	150	
	13C-PCB-81	83.1	25	150	
	13C-PCB-95	101	25	150	
	13C-PCB-101	93.0	25	150	
	13C-PCB-104	86.0	25	150	
	13C-PCB-105	91.8	25	150	
	13C-PCB-114	99.7	25	150	
	13C-PCB-118	93.8	25	150	
	13C-PCB-123	93.6	25	150	
	13C-PCB-126	93.2	25	150	
	13C-PCB-153	94.0	25	150	
	13C-PCB-155	60.0	25	150	
	13C-PCB-156	94.6	25	150	
	13C-PCB-157	94.2	25	150	
	13C-PCB-167	93.0	25	150	
	13C-PCB-169	96.5	25	150	
	13C-PCB-170	100	25	150	
	13C-PCB-180	94.8	25	150	
	13C-PCB-188	83.8	25	150	
	13C-PCB-189	100	25	150	
	13C-PCB-194	82.2	25	150	

Chemist: RAS

Approved by: William J. Luksemburg 23-O 003 08:59

Project 24292

ALTA

Sample ID: USEA000373 **EPA Method 1668**

Client Data
Name: Clariant Corporation
Project: LOO-5SDN48
Date Collected: 16-Oct-03
Time Collected: NA

Sample Data
Matrix: Solid
Sample Size: 0.96 g
%Solids: 100

Laboratory Data
Lab Sample: 24292-002 Date Received: 17-Oct-03
QC Batch No.: 5267 Date Extracted: 17-Oct-03
Date Analyzed DB-1: 19-Oct-03

	Internal Standard	% Recovery	LCL	UCL	Qualifier
IS	13C-PCB-202	64.9	25	150	
	13C-PCB-208	74.2	25	150	
	13C-PCB-206	80.9	25	150	
	13C-PCB-209	71.1	25	150	
CRS	13C-PCB-52	105	30	135	
	13C-PCB-178	91.8	30	135	

ALTA

Sample ID: 362254106

EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-003	Date Received:	17-Oct-03
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct-03
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997)) :	0.0499
Time Collected:	NA						

Analyte	Conc. (ng/g) ppb	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-1	0.517	1.30	A	PCB-41/64/71/72	55.4	2.60	
PCB-2	2.69	1.30		PCB-42/59	1050	2.60	
PCB-3	1.66	1.30		PCB-43/49	194	2.60	
PCB-4/10	ND	2.60		PCB-44	359000	5.20	*
PCB-5/8	14.7	2.60		PCB-45	ND	2.60	
PCB-6	23.0	2.60		PCB-46	33.3	2.60	
PCB-7/9	9.47	2.60		PCB-47	ND	2.60	
PCB-11	8.20	2.60	B	PCB-48/75	ND	2.60	
PCB-12/13	6.52	2.60		PCB-50	ND	2.60	
PCB-14	ND	2.60		PCB-51	ND	2.60	
PCB-15	ND	2.60		PCB-52/69	6960	2.60	
PCB-16/32	15.2	1.30		PCB-53	76.8	2.60	
PCB-17	2.96	1.30		PCB-54	ND	2.60	
PCB-18	298	1.30		PCB-55	ND	2.60	
PCB-19	ND	1.30		PCB-56/60	1440	2.60	
PCB-20/21/33	1630	1.30		PCB-57	ND	2.60	
PCB-22	263	1.30		PCB-58	ND	2.60	
PCB-23	ND	1.30		PCB-61	ND	2.60	
PCB-24/27	1.41	1.30		PCB-62	ND	2.60	
PCB-25	8.64	1.30		PCB-63	ND	2.60	
PCB-26	41.9	1.30		PCB-65	ND	2.60	
PCB-28	2.89	1.30		PCB-66	1150	2.60	
PCB-29	ND	1.30		PCB-67	ND	2.60	
PCB-30	ND	1.30		PCB-68	ND	2.60	
PCB-31	68.8	1.30		PCB-70	171000 171ppm	5.20	*
PCB-34	ND	1.30		PCB-73	ND	2.60	
PCB-35	532	1.30		PCB-74	ND	2.60	
PCB-36	ND	1.30		PCB-76	ND	2.60	
PCB-37	142	1.30		PCB-77	313	2.60	
PCB-38	ND	1.30		PCB-78	ND	2.60	
PCB-39	ND	1.30		PCB-79	ND	2.60	
PCB-40	649	2.60		PCB-80	ND	2.60	

ALTA

Sample ID: 562254106

EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-003	Date Received:	17-Oct-03
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct-03
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997))	0.0499
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers	Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-81	ND	2.60		PCB-124	ND	11.2	I
PCB-82	ND	2.60		PCB-126	ND	2.60	
PCB-83	ND	2.60		PCB-127	ND	2.60	
PCB-84/92	187	2.60		PCB-128/162	ND	2.60	
PCB-85/116	ND	2.60		PCB-129	ND	2.60	
PCB-86	ND	2.60		PCB-130	ND	2.60	
PCB-87/117/125	27.6	2.60		PCB-131	ND	2.60	
PCB-88/91	4.16	2.60		PCB-132/161	ND	2.60	
PCB-89	ND	2.60		PCB-133/142	57.6	2.60	
PCB-90/101	231	2.60		PCB-134/143	ND	2.60	
PCB-93	ND	2.60		PCB-135	ND	2.60	
PCB-94	ND	2.60		PCB-136	0.436	2.60	A
PCB-95/98/102	999	2.60		PCB-137	ND	2.60	
PCB-96	ND	2.60		PCB-138/163/164	ND	2.60	
PCB-97	291	2.60		PCB-139/149	0.607	2.60	A
PCB-99	1.38	2.60	A	PCB-140	ND	2.60	
PCB-100	ND	2.60		PCB-141	1.88	2.60	A
PCB-103	ND	2.60		PCB-144	1.45	2.60	A
PCB-104	ND	2.60		PCB-145	ND	2.60	
PCB-105	0.791	2.60	A	PCB-146/165	0.285	2.60	A
PCB-106/118	185	2.60		PCB-147	ND	2.60	
PCB-107/109	ND	2.60		PCB-148	ND	2.60	
PCB-108/112	ND	2.60		PCB-150	ND	2.60	
PCB-110	46.8	2.60		PCB-151	4.37	2.60	
PCB-111/115	ND	2.60		PCB-152	ND	2.60	
PCB-113	ND	2.60		PCB-153	ND	2.60	
PCB-114	ND	2.60		PCB-154	ND	2.60	
PCB-119	0.870	2.60	A	PCB-155	ND	2.60	
PCB-120	ND	2.60		PCB-156	ND	2.60	
PCB-121	ND	2.60		PCB-157	ND	2.60	
PCB-122	ND	2.60		PCB-158/160	32.7	2.60	
PCB-123	ND	2.60		PCB-159	ND	2.60	

ALTA

Sample ID: 62254106

EPA Method 1668

Client Data		Sample Data		Laboratory Data			
Name:	Clariant Corporation	Matrix:	Solid	Lab Sample:	24292-003	Date Received:	17-Oct-03
Project:	LOO-5SDN48	Sample Size:	0.96 g	QC Batch No.:	5267	Date Extracted:	17-Oct-03
Date Collected:	16-Oct-03	%Solids:	100	Date Analyzed DB-1:	19-Oct-03	TEQ(WHO-Mammal (1997)):	0.0499
Time Collected:	NA						

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-166	ND	2.60	
PCB-167	ND	2.60	
PCB-168	ND	2.60	
PCB-169	ND	2.60	
PCB-170	ND	2.60	
PCB-171	ND	2.60	
PCB-172	ND	2.60	
PCB-173	ND	2.60	
PCB-174	ND	2.60	
PCB-175	ND	2.60	
PCB-176	ND	2.60	
PCB-177	ND	2.60	
PCB-178	ND	2.60	
PCB-179	ND	2.60	
PCB-180	ND	2.60	
PCB-181	ND	2.60	
PCB-182/187	ND	2.60	
PCB-183	ND	2.60	
PCB-184	ND	2.60	
PCB-185	ND	2.60	
PCB-186	ND	2.60	
PCB-188	ND	2.60	
PCB-189	ND	2.60	
PCB-190	ND	3.83	I
PCB-191	ND	2.60	
PCB-192	ND	2.60	
PCB-193	ND	2.60	
PCB-194	ND	3.91	
PCB-195	ND	3.91	
PCB-196/203	ND	3.91	
PCB-197	ND	3.91	
PCB-198	ND	3.91	

Analyte	Conc. (ng/g)	RL	Qualifiers
PCB-199	ND	3.91	
PCB-200	ND	3.91	
PCB-201	ND	3.91	
PCB-202	ND	3.91	
PCB-204	ND	3.91	
PCB-205	ND	3.91	
PCB-206	ND	3.91	
PCB-207	ND	3.91	
PCB-208	ND	3.91	
PCB-209	ND	3.91	
Total monoCB	4.87	1.30	
Total diCB	61.8	2.60	B
Total triCB	3010	1.30	
Total tetraCB	542000	2.60	B,*
Total pentaCB	1970	2.60	
Total hexaCB	99.3	2.60	
Total heptaCB	ND	2.60	
Total octaCB	ND	3.91	
Total nonaCB	ND	3.91	
Total decaCB	ND	3.91	