

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
 Data File : BF077609.D
 Acq On : 5 Mar 2015 6:53
 Operator : TP/IZ
 Sample : G1424-08
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1

Manual Integrations
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Quant Time: Mar 05 12:30:41 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 13:27:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	68172	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	274631	20.00	ng	0.00
38) Acenaphthene-d10	10.97	164	135984	20.00	ng	0.00
63) Phenanthrene-d10	12.82	188	265430	20.00	ng	0.00
75) Chrysene-d12	16.12	240	277903	20.00	ng	0.02
86) Perylene-d12	17.91	264	273357	20.00	ng	0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	391236	95.81	ng	0.00
7) Phenol-d6	6.79	99	479189	91.27	ng	0.00
23) Nitrobenzene-d5	7.91	82	289155	65.47	ng	0.00
41) 2,4,6-Tribromophenol	11.95	330	120250	91.84	ng	0.00
44) 2-Fluorobiphenyl	10.15	172	488414	56.00	ng	0.00
78) Terphenyl-d14	14.81	244	472415	39.74	ng	0.00

Target Compounds						Qvalue
31) Naphthalene	8.83	128	391575	28.51	ng	98
37) 2-Methylnaphthalene	9.69	142	207540	21.28	ng	100
45) 1,1'-Biphenyl	10.27	154	53935	5.24	ng	96
48) Acenaphthylene	10.80	152	78464	6.13	ng	97
49) Dimethylphthalate	10.65	163	30085	3.15	ng	100
51) Acenaphthene	11.01	154	273509	35.83	ng	99
54) Dibenzofuran	11.23	168	254660	21.61	ng	98
57) Fluorene	11.65	166	485167	51.49	ng	98
61) 4-Nitroaniline	11.67	138	27574	13.02	ng	94
70) Phenanthrene	12.85	178	3206048	208.40	ng	94
71) Anthracene	12.91	178	919159	60.21	ng	99
72) Carbazole	13.11	167	235264	16.21	ng	99
74) Fluoranthene	14.33	202	3016847	179.52	ng	94
77) Pyrene	14.61	202	2747149	161.60	ng	95
80) Benzo(a)anthracene	16.11	228	1423820	87.42	ng	96
82) Chrysene	16.15	228	1099489	71.89	ng	98
85) Indeno(1,2,3-cd)pyrene	19.36	276	583649	33.47	ng	94
87) Benzo(b)fluoranthene	17.46	252	1259221m	79.22	ng	
88) Benzo(k)fluoranthene	17.48	252	475010m	30.49	ng	
89) Benzo(a)pyrene	17.85	252	993752	65.64	ng	# 95
90) Dibenzo(a,h)anthracene	19.37	278	150749	10.44	ng	# 92
91) Benzo(g,h,i)perylene	19.78	276	554276	38.03	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

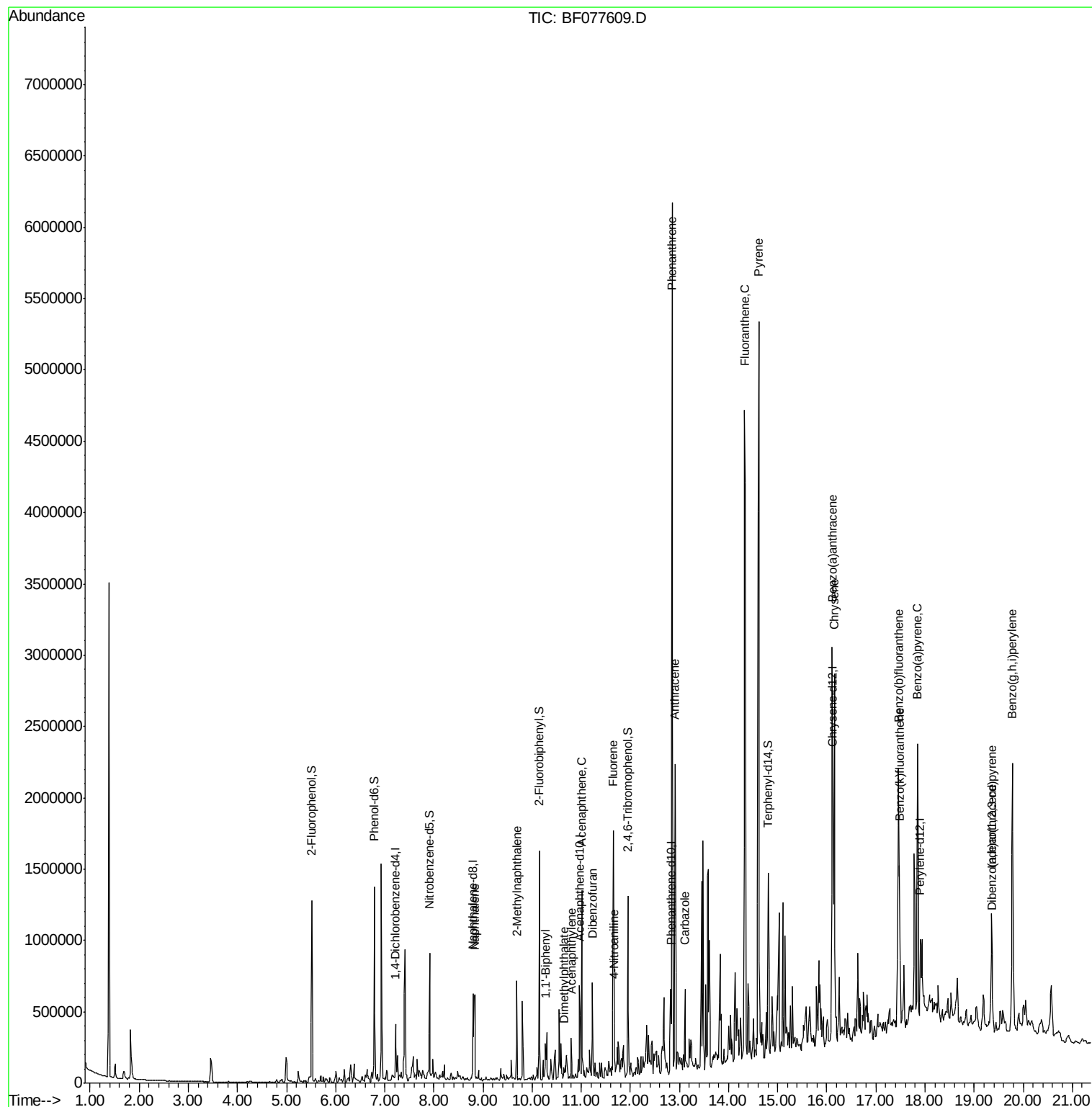
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030415\
Data File : BF077609.D
Acq On : 5 Mar 2015 6:53
Operator : TP/IZ
Sample : G1424-08
Misc :
ALS Vial : 28 Sample Multiplier: 1

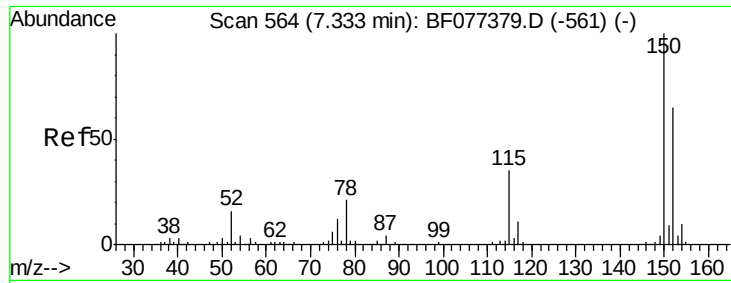
Instrument :
BNA_F
ClientSampled :
SEP-1

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#1

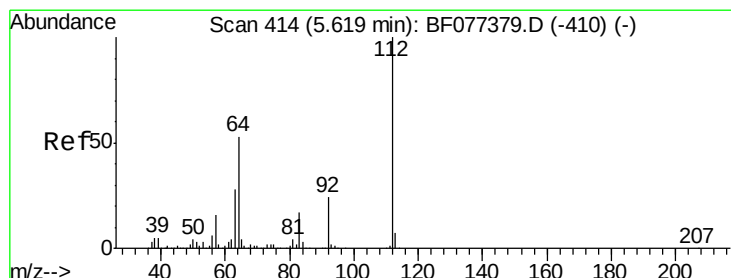
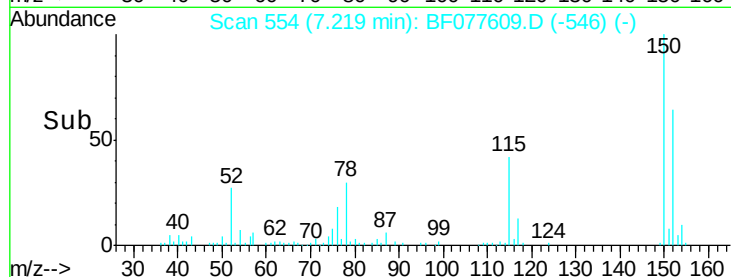
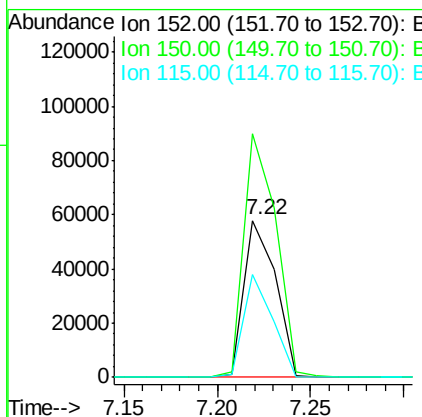
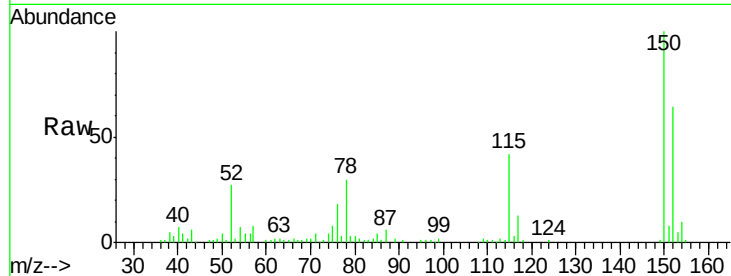
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.22 min Scan# 554
Delta R.T. -0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.0	186.0
115	66.0	49.4	74.2

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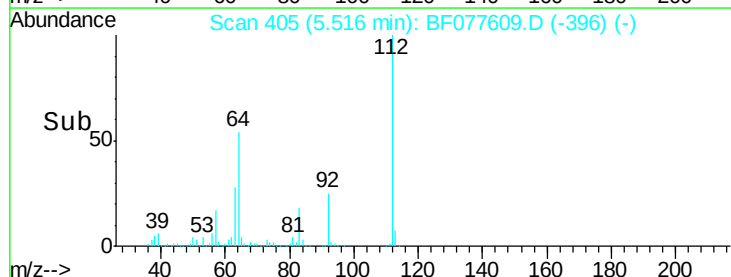
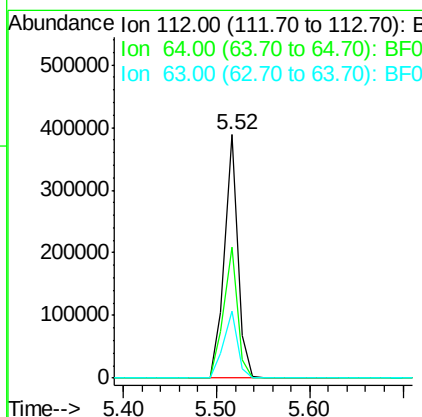
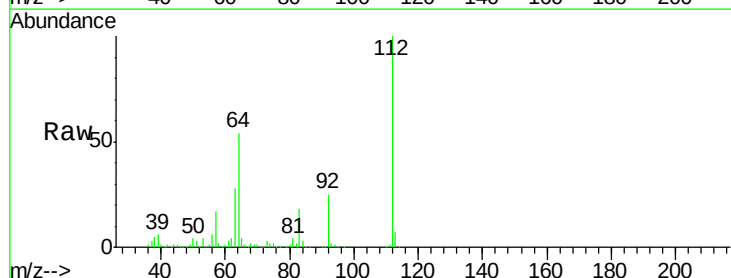
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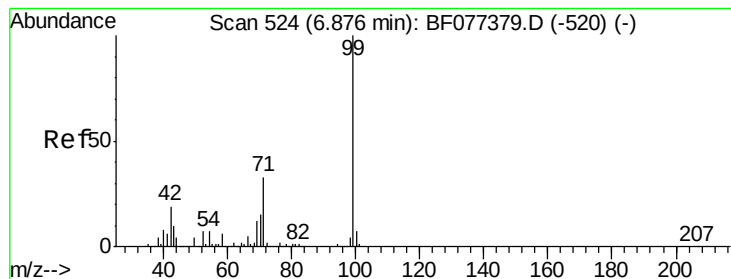


#5

2-Fluorophenol
Concen: 95.81 ng
RT: 5.52 min Scan# 405
Delta R.T. 0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	48.5	72.7
63	27.6	25.0	37.4





#7

Phenol-d6

Concen: 91.27 ng

RT: 6.79 min Scan# 516

Delta R.T. -0.00 min

Lab File: BF077609.D

Acq: 5 Mar 2015 6:53

Instrument :

BNA_F

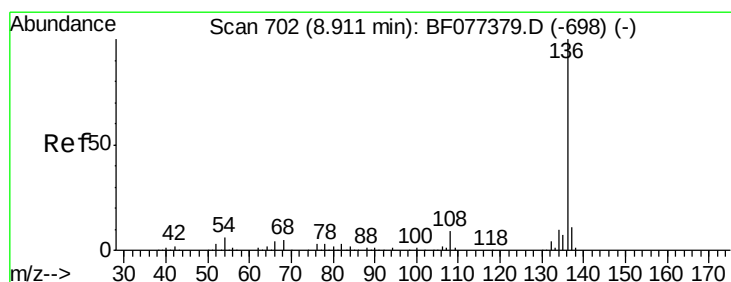
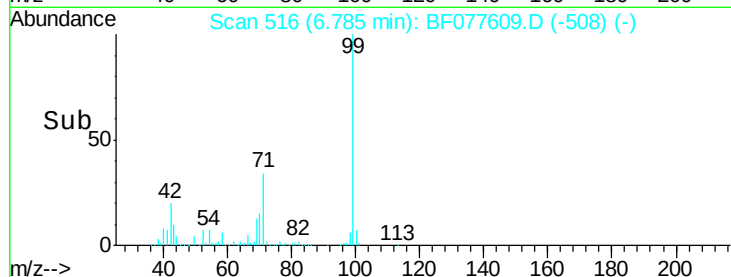
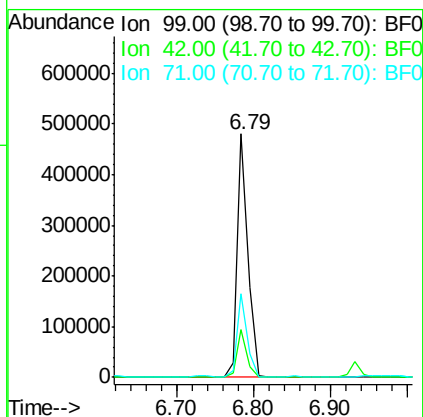
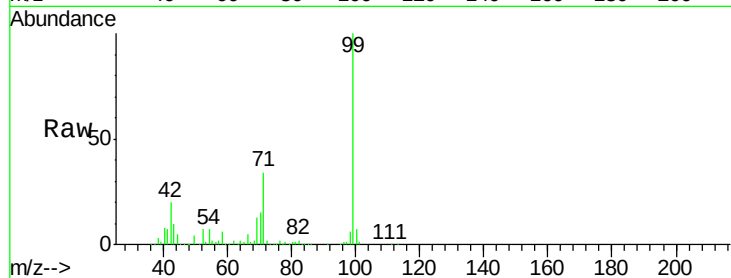
ClientSampleId :

SEP-1

Tgt Ion:	99	Resp:	479189
Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.4
71	34.1	26.7	40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

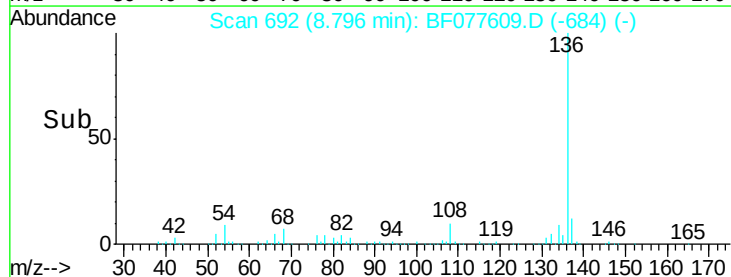
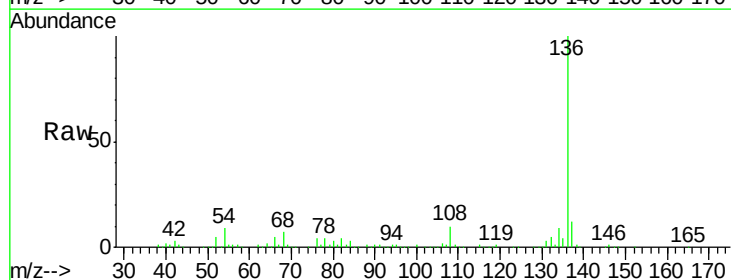
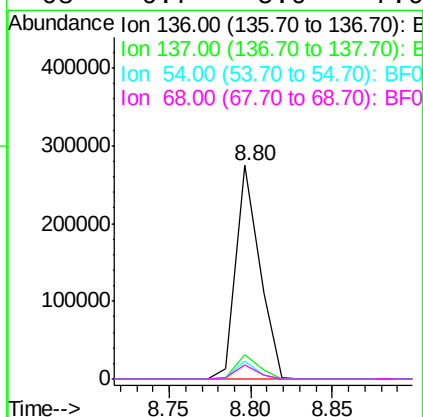
RT: 8.80 min Scan# 692

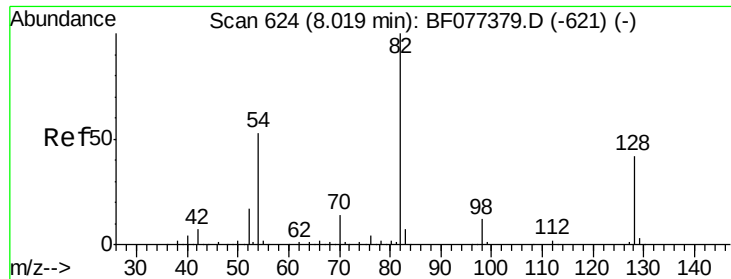
Delta R.T. -0.00 min

Lab File: BF077609.D

Acq: 5 Mar 2015 6:53

Tgt Ion:	136	Resp:	274631
Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.6	13.0
54	8.5	6.2	9.4
68	6.7	5.0	7.6





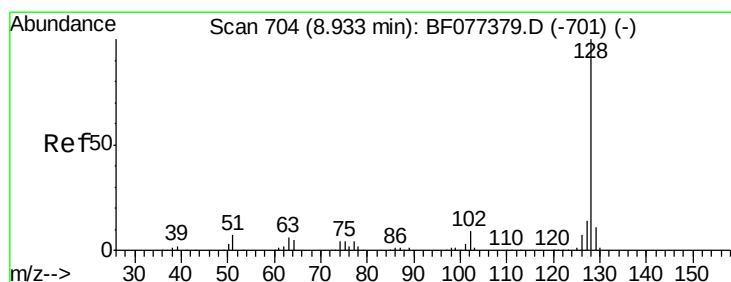
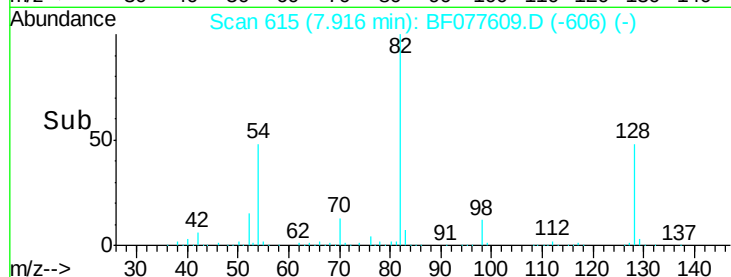
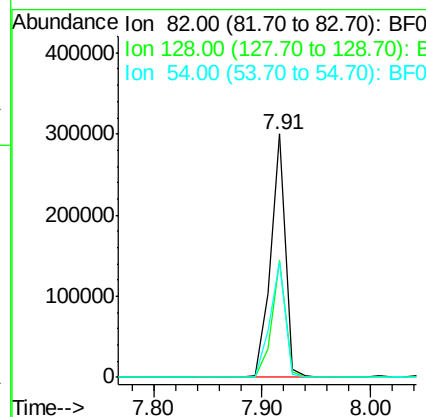
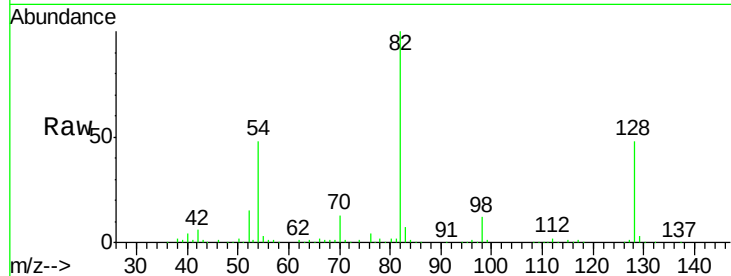
#23
 Nitrobenzene-d5
 Concen: 65.47 ng
 RT: 7.91 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	48.2	43.8	65.8
54	47.6	36.7	55.1

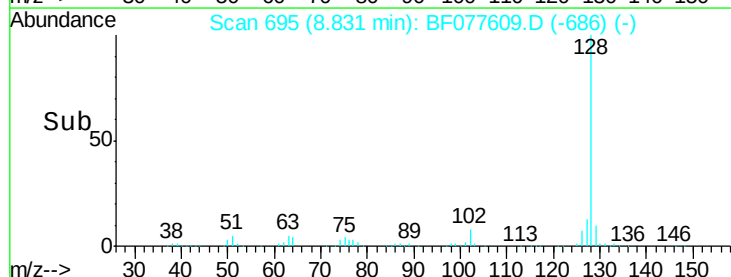
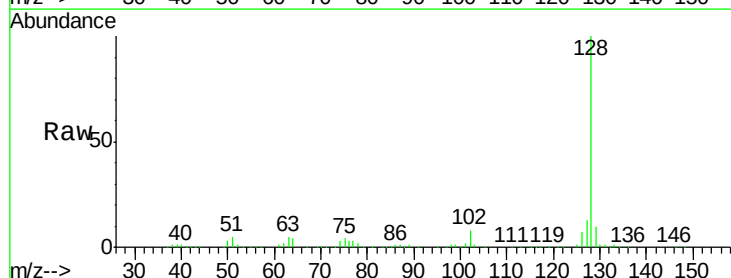
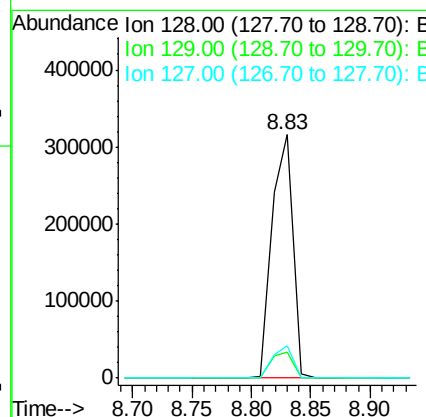
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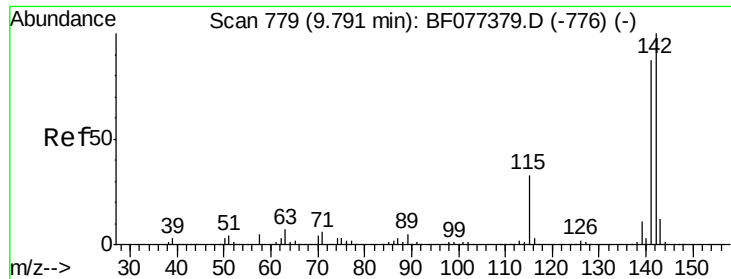
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#31
 Naphthalene
 Concen: 28.51 ng
 RT: 8.83 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.5	9.4	14.0
127	13.1	10.6	15.8





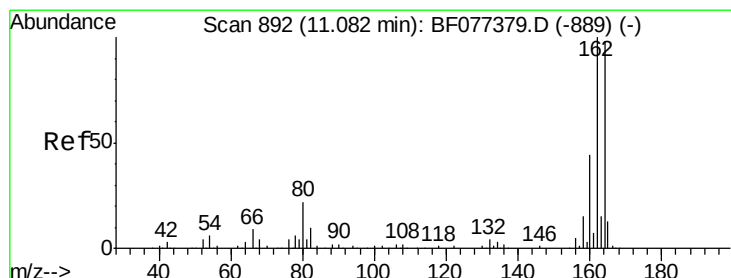
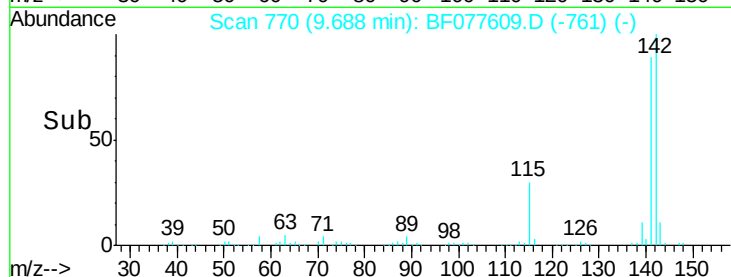
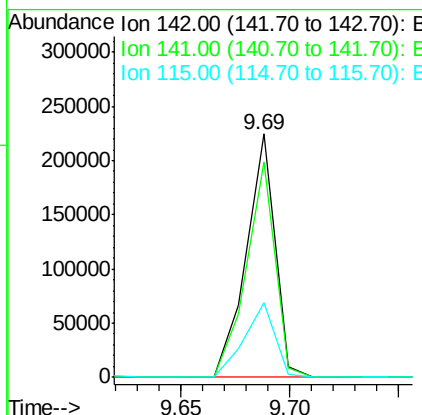
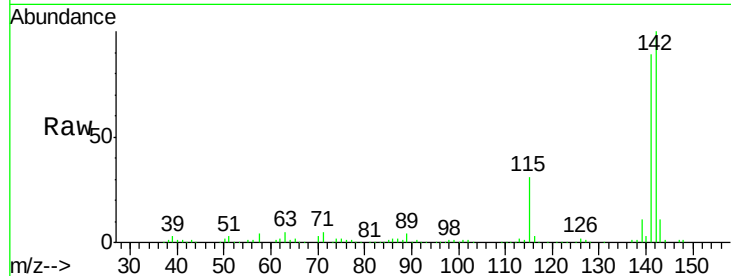
#37
 2-Methylnaphthalene
 Concen: 21.28 ng
 RT: 9.69 min Scan# 770
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	88.7	70.7	106.1
115	30.6	24.2	36.4

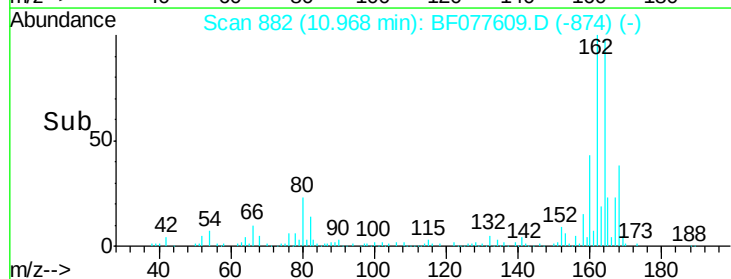
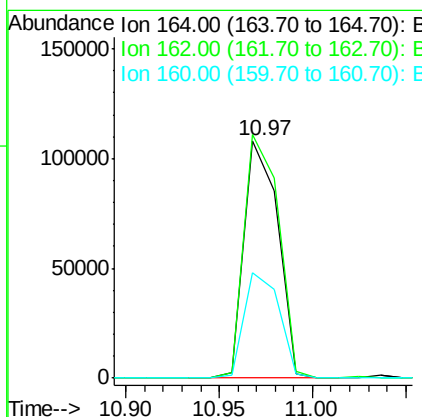
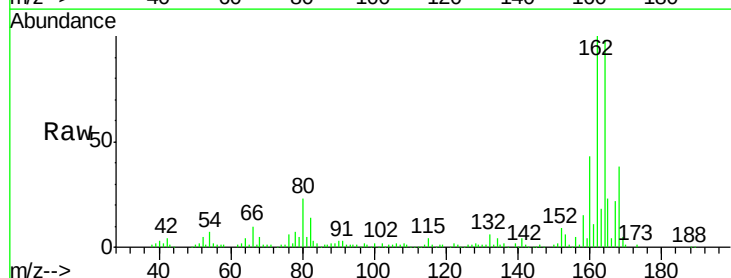
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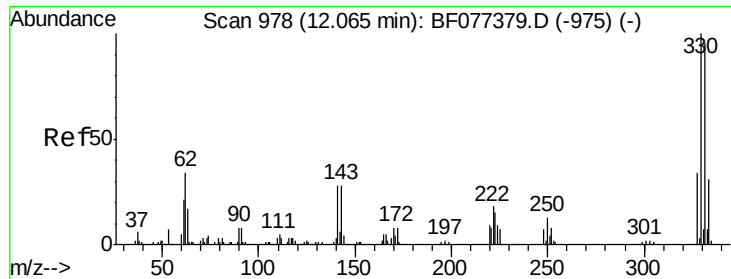
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.97 min Scan# 882
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
162	102.6	83.2	124.8
160	44.5	34.6	52.0





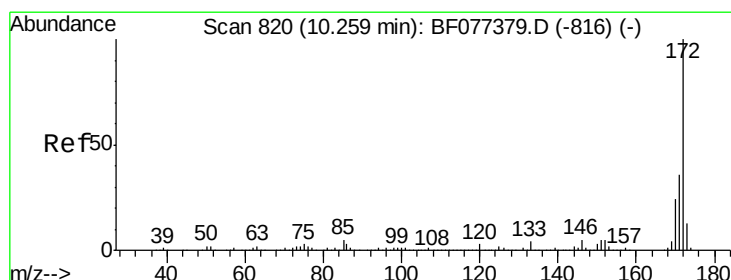
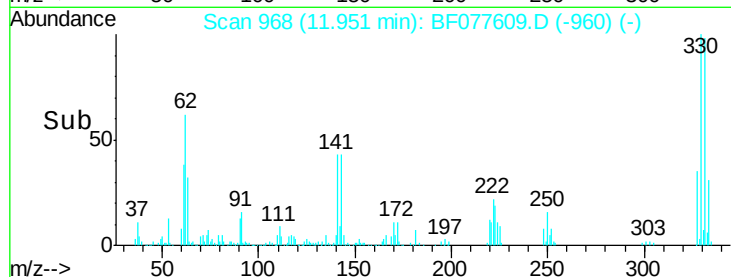
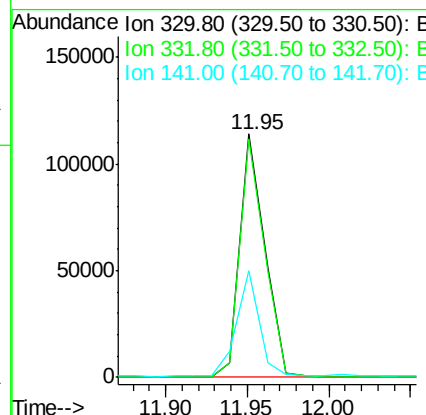
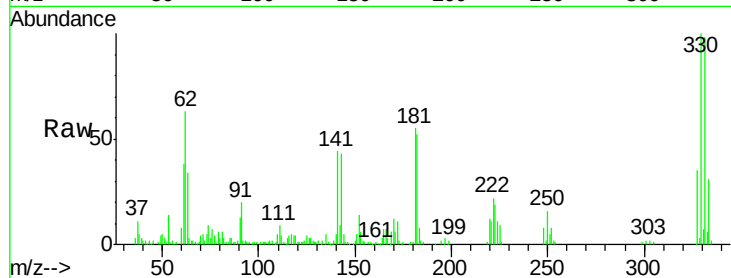
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 2,4,6-Tribromophenol
 Concen: 91.84 ng
 RT: 11.95 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	97.4	77.4	116.2
141	39.9	28.8	43.2

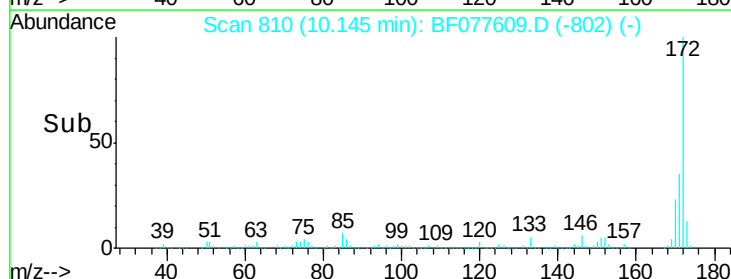
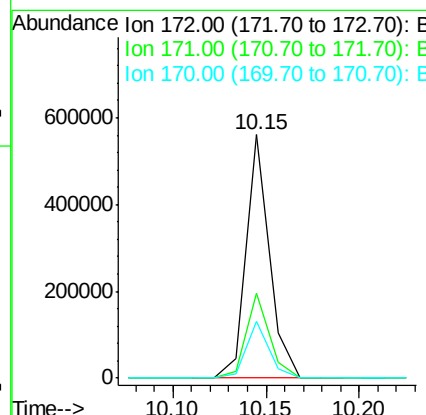
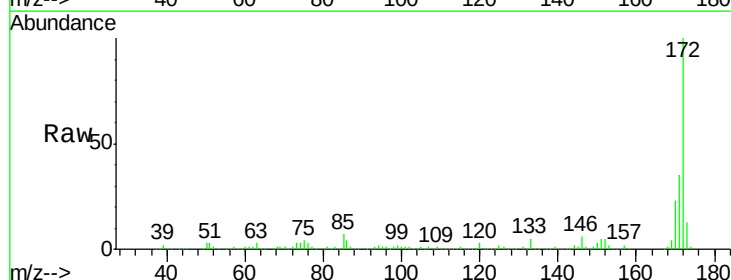
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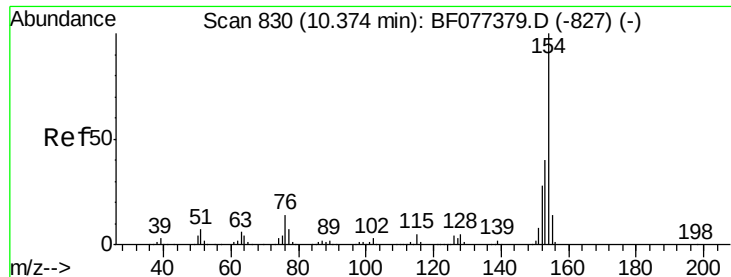
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#44
 2-Fluorobiphenyl
 Concen: 56.00 ng
 RT: 10.15 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.0	28.9	43.3
170	23.2	19.4	29.2





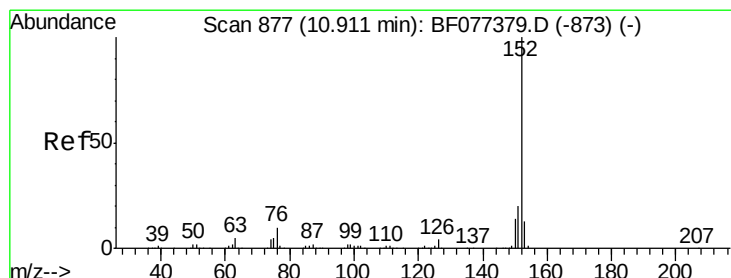
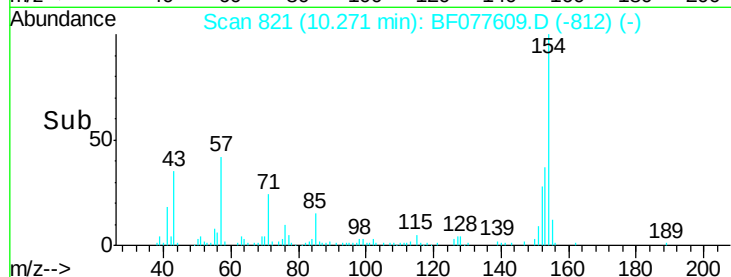
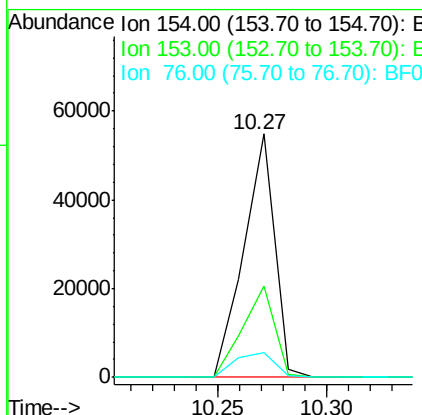
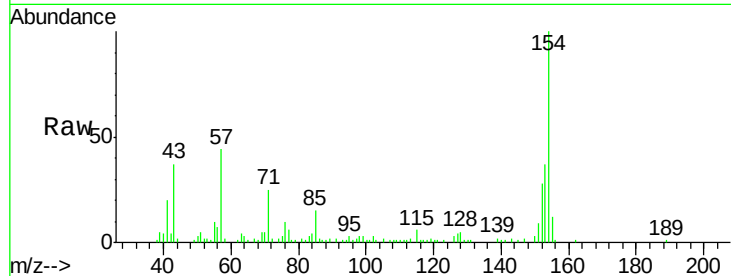
#45
1,1'-Biphenyl
Concen: 5.24 ng
RT: 10.27 min Scan# 821
Delta R.T. -0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampled :
SEP-1

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	37.4	20.2	60.2
76	10.1	0.0	29.4

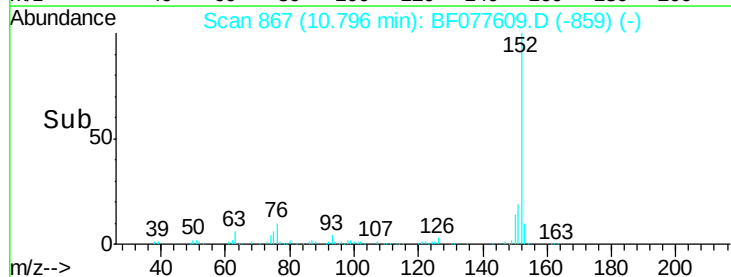
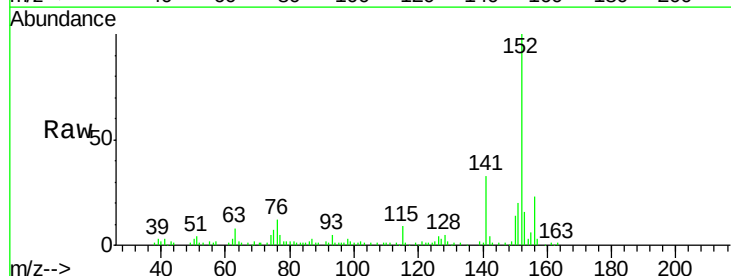
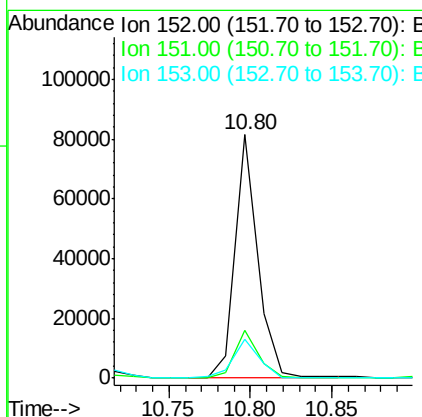
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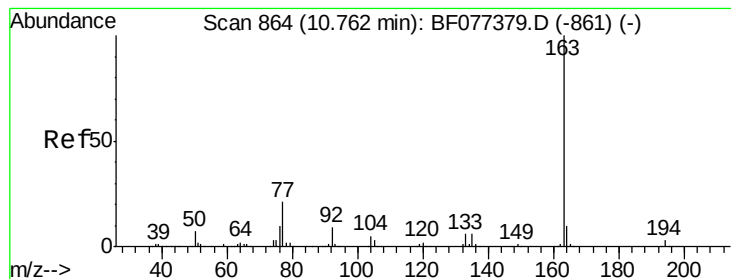
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#48
Acenaphthylene
Concen: 6.13 ng
RT: 10.80 min Scan# 867
Delta R.T. -0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	19.8	16.1	24.1
153	15.9	10.9	16.3





#49

Dimethylphthalate

Concen: 3.15 ng

RT: 10.65 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF077609.D

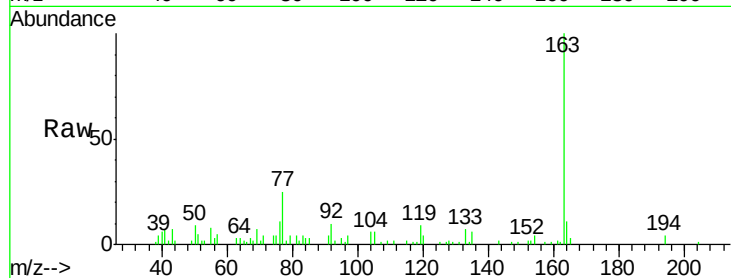
Acq: 5 Mar 2015 6:53

Instrument :

BNA_F

ClientSampleId :

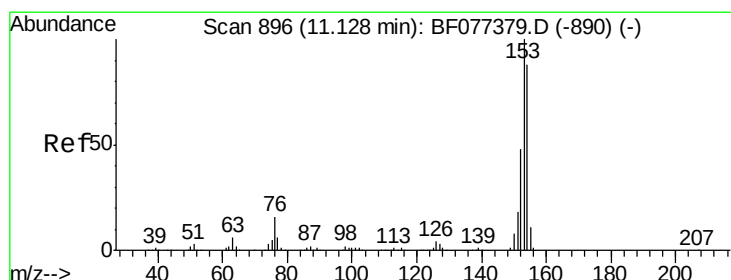
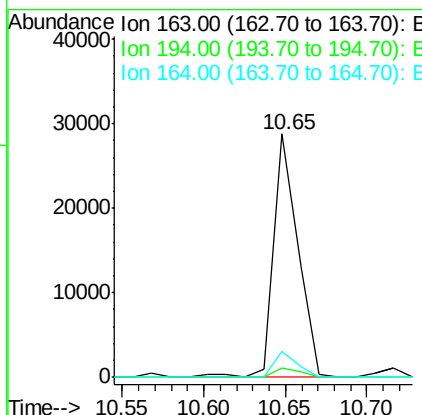
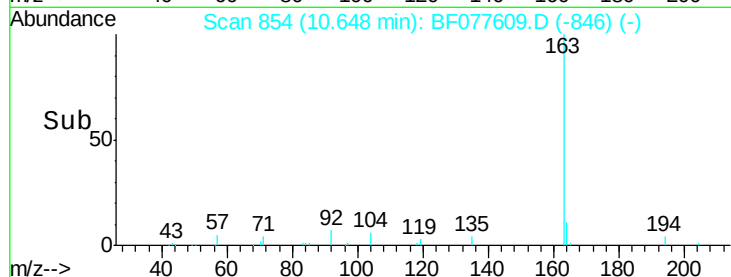
SEP-1



Tgt Ion:	163	Resp:	30085
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	10.7	8.6	13.0

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#51

Acenaphthene

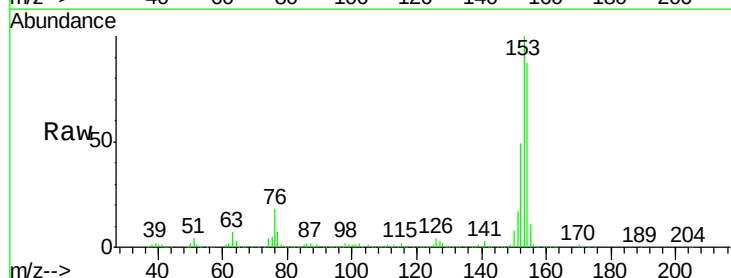
Concen: 35.83 ng

RT: 11.01 min Scan# 886

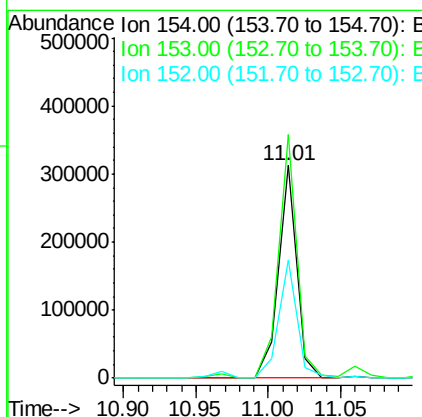
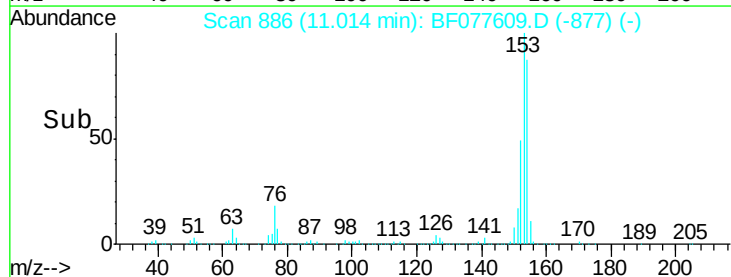
Delta R.T. -0.00 min

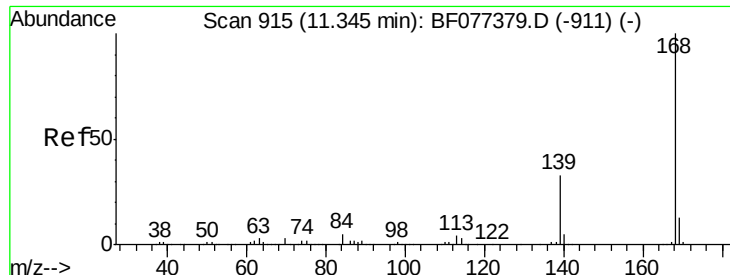
Lab File: BF077609.D

Acq: 5 Mar 2015 6:53



Tgt Ion:	154	Resp:	273509
Ion Ratio	Lower	Upper	
154	100		
153	114.5	90.5	135.7
152	55.6	43.5	65.3





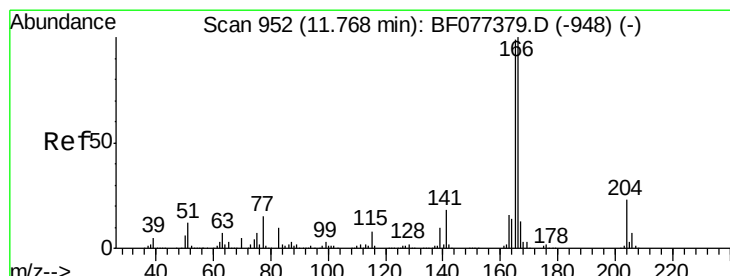
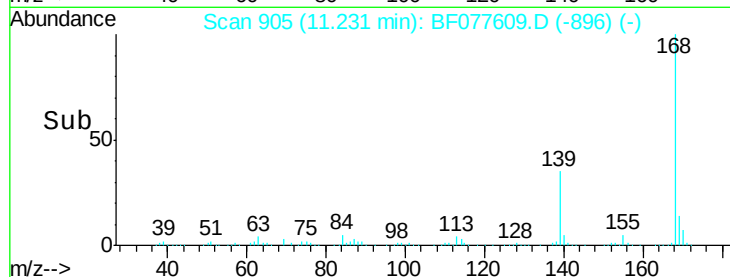
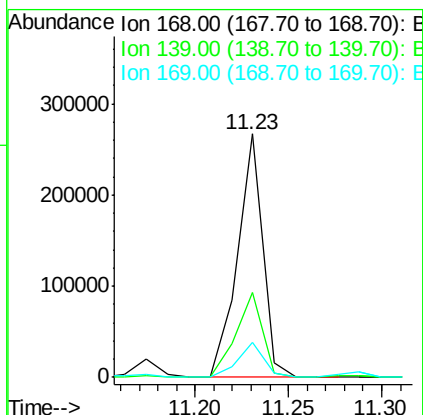
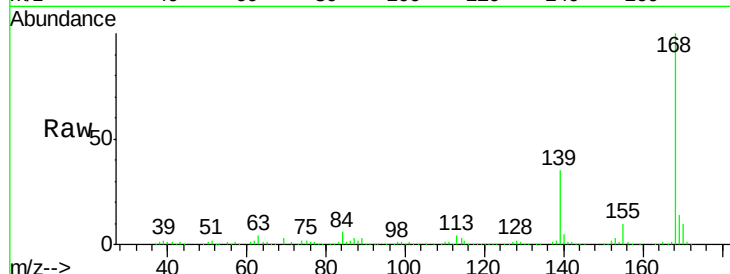
#54
Dibenzenofuran
Concen: 21.61 ng
RT: 11.23 min Scan# 905
Delta R.T. -0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	254660		
139	35.1	29.3	43.9	
169	14.4	10.9	16.3	

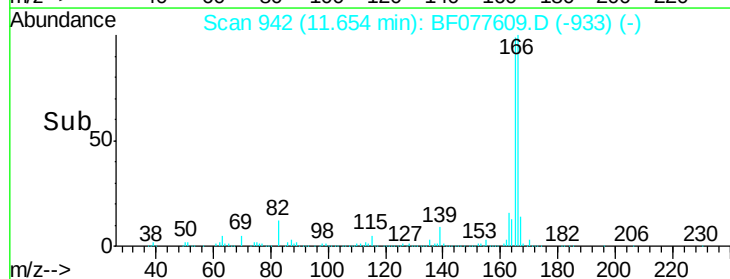
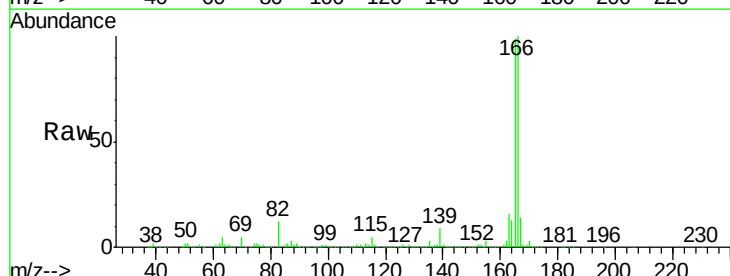
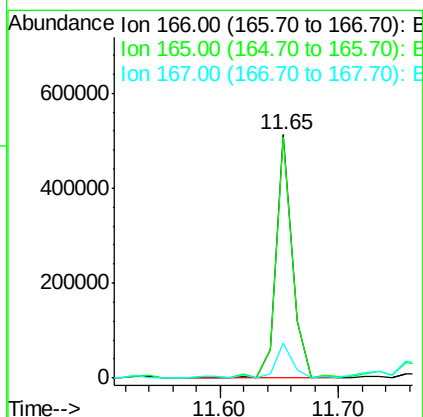
Manual Integrations
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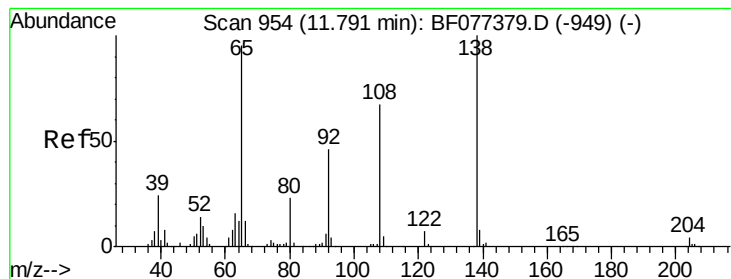
mohammad
3/5/2015 2:11:33 PM



#57
Fluorene
Concen: 51.49 ng
RT: 11.65 min Scan# 942
Delta R.T. -0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	485167		
165	98.8	77.6	116.4	
167	14.4	10.6	16.0	





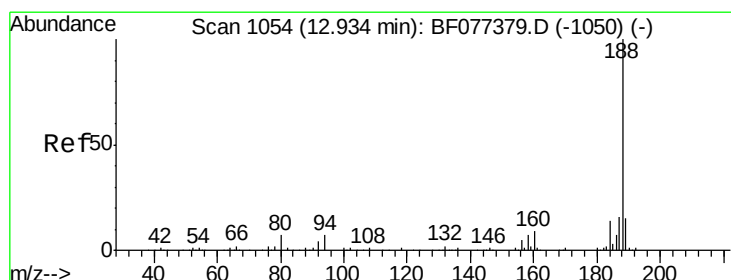
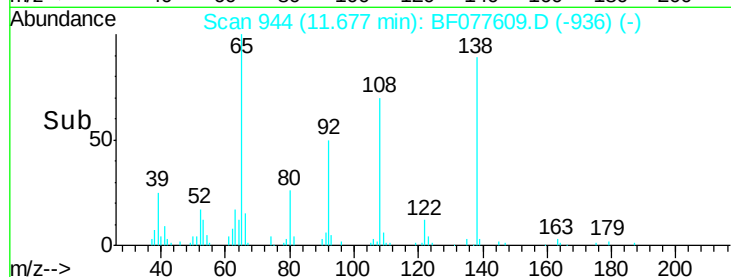
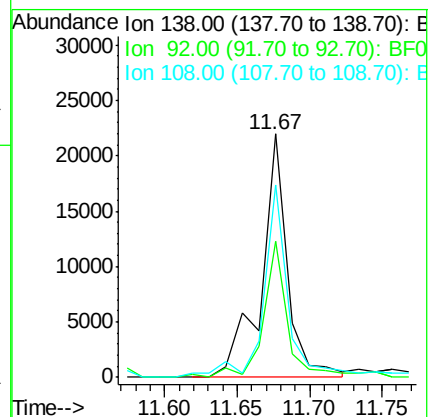
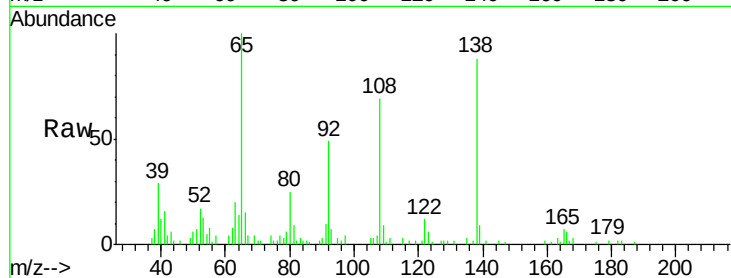
#61
4-Nitroaniline
Concen: 13.02 ng
RT: 11.67 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion	Ratio	Resp	Lower	Upper
138	100	27574		
92	55.9	32.8	72.8	
108	78.8	52.1	92.1	

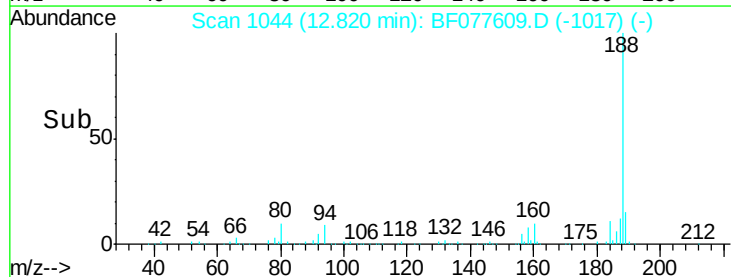
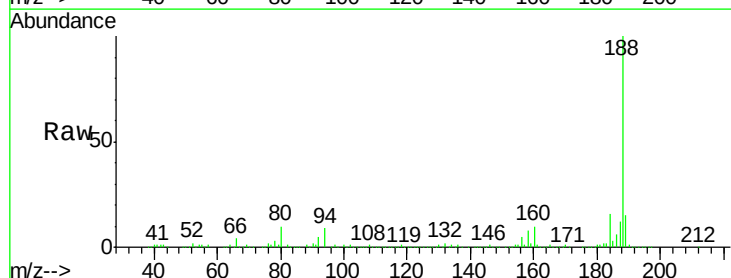
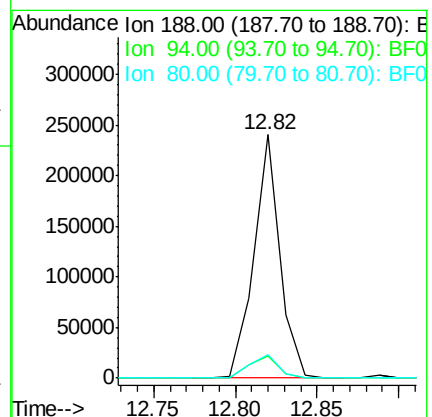
Manual Integrations
APPROVED

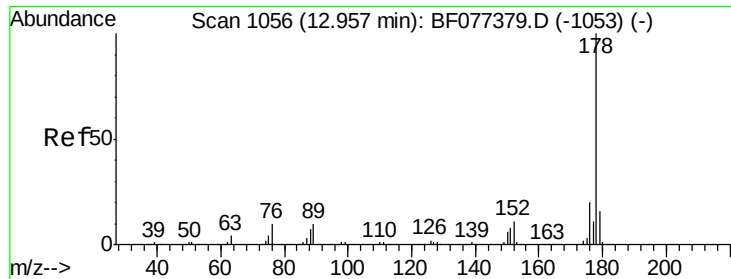
mohammad
3/5/2015 2:11:33 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	265430		
94	9.1	7.4	11.2	
80	9.6	8.0	12.0	





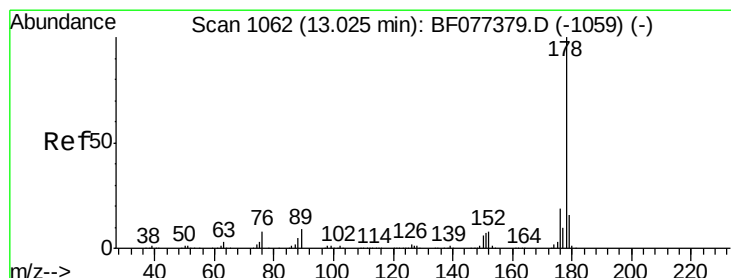
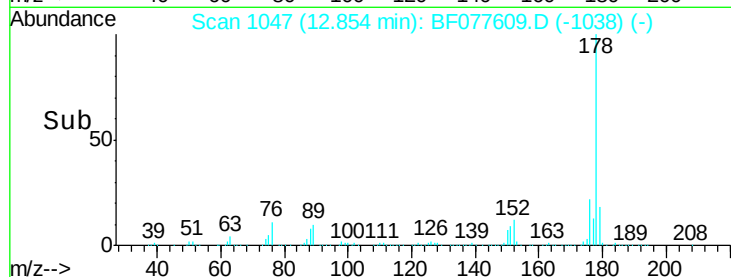
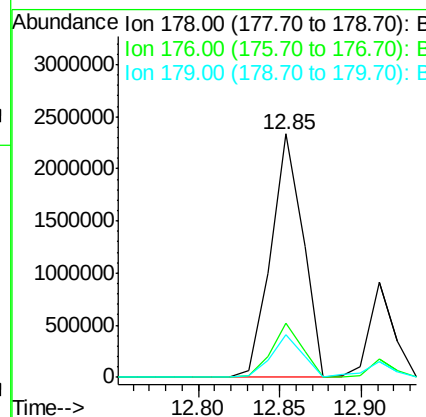
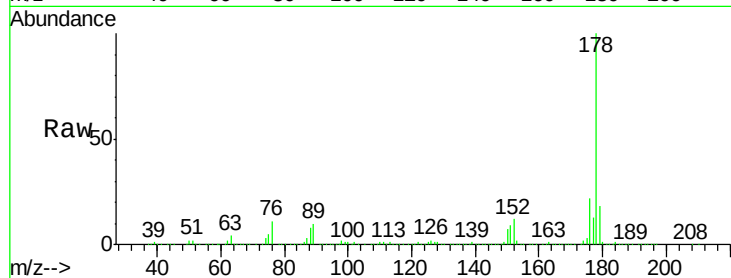
#70
Phenanthrene
Concen: 208.40 ng
RT: 12.85 min Scan# 1047
Delta R.T. 0.01 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion:178 Resp: 3206048
Ion Ratio Lower Upper
178 100
176 22.2 15.5 23.3
179 17.8 12.2 18.2

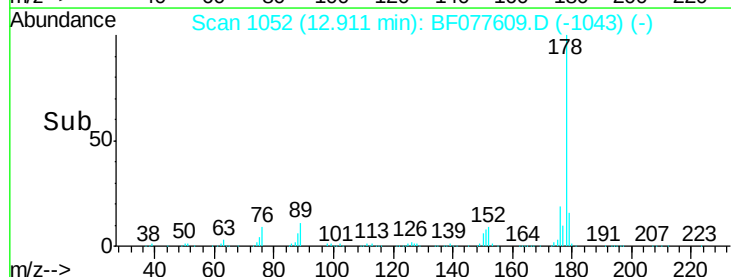
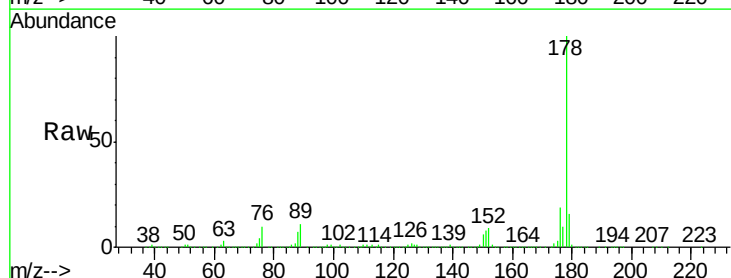
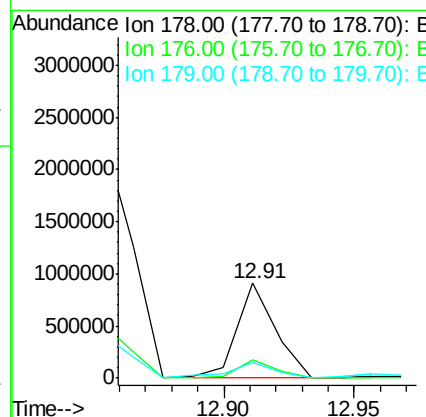
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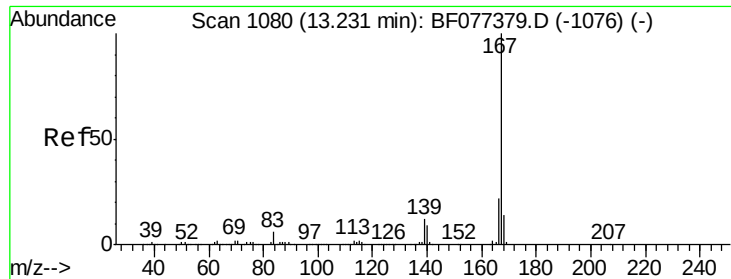
mohammad
3/5/2015 2:11:33 PM



#71
Anthracene
Concen: 60.21 ng
RT: 12.91 min Scan# 1052
Delta R.T. 0.00 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion:178 Resp: 919159
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 16.3 12.9 19.3





#72

Carbazole

Concen: 16.21 ng

RT: 13.11 min Scan# 1070

Delta R.T. -0.00 min

Lab File: BF077609.D

Acq: 5 Mar 2015 6:53

Instrument :

BNA_F

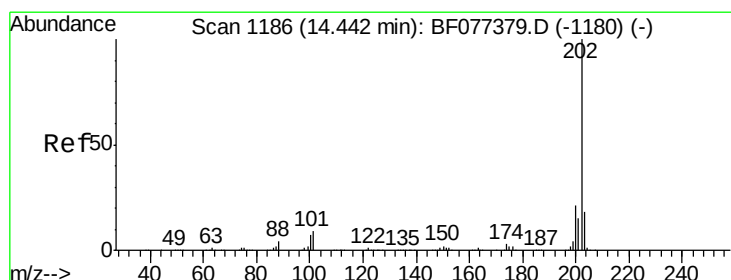
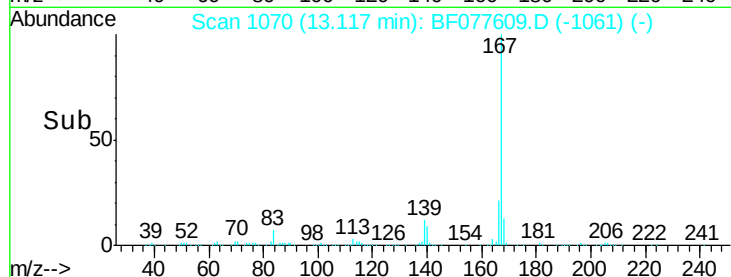
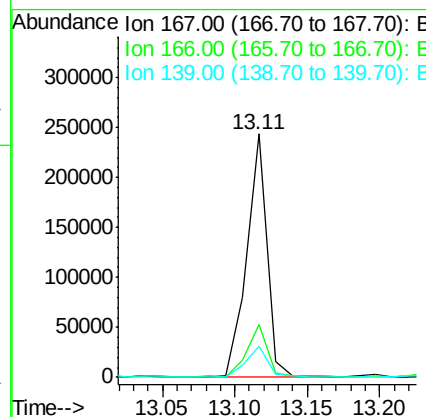
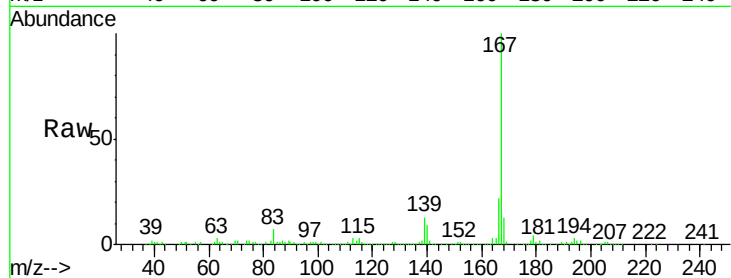
ClientSampleId :

SEP-1

Tgt Ion:	167	Resp:	235264
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.6	26.4
139	12.9	9.9	14.9

Manual Integrations
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#74

Fluoranthene

Concen: 179.52 ng

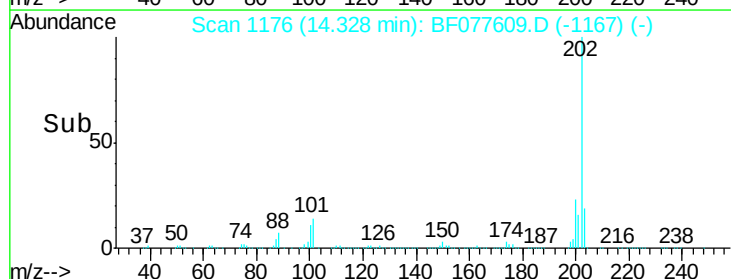
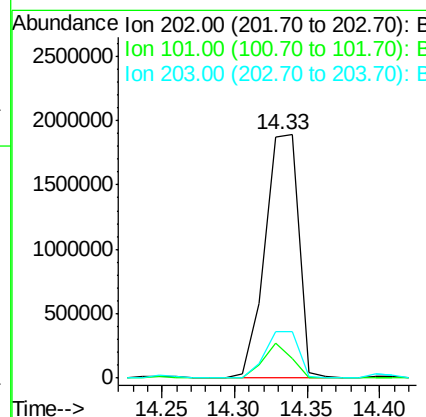
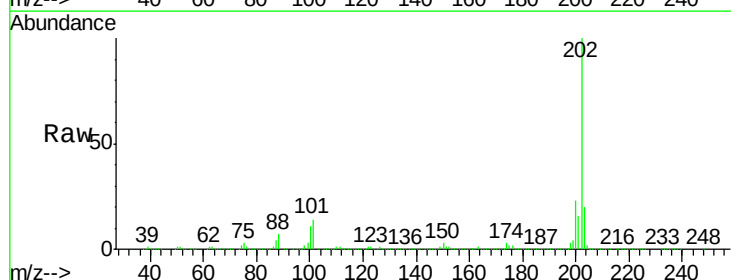
RT: 14.33 min Scan# 1176

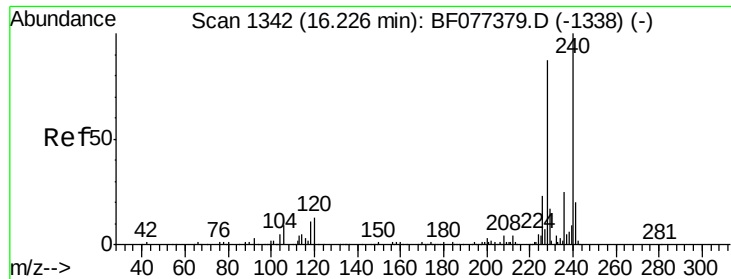
Delta R.T. 0.01 min

Lab File: BF077609.D

Acq: 5 Mar 2015 6:53

Tgt Ion:	202	Resp:	3016847
Ion Ratio	Lower	Upper	
202	100		
101	14.3	0.0	30.8
203	19.5	0.0	37.7





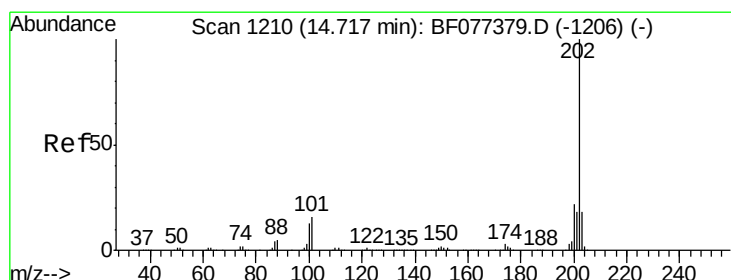
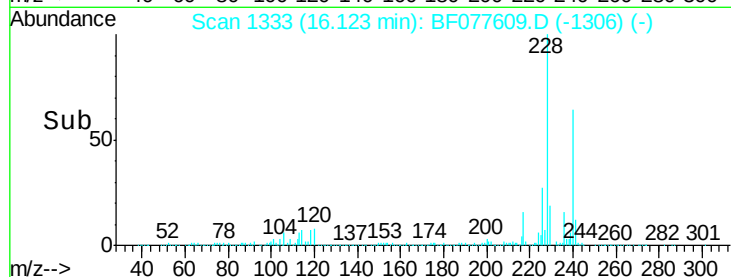
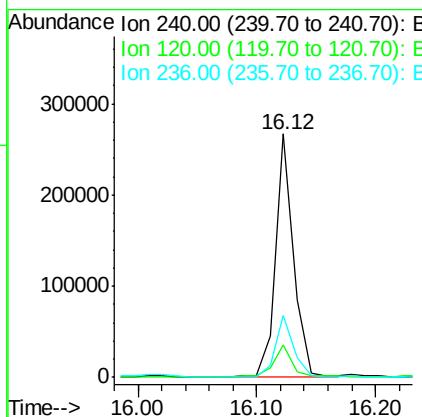
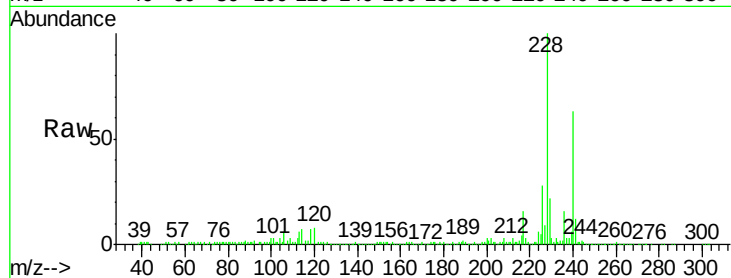
#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.12 min Scan# 1333
Delta R.T. 0.02 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	13.5	8.8	13.2#
236	25.6	20.7	31.1

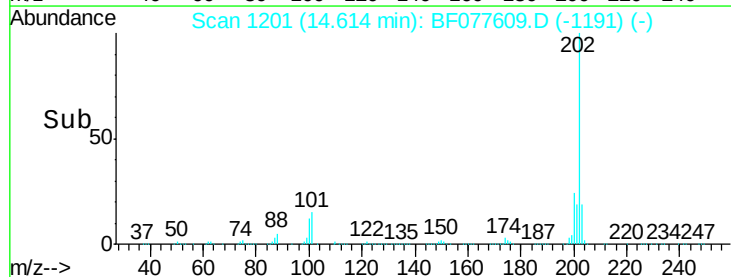
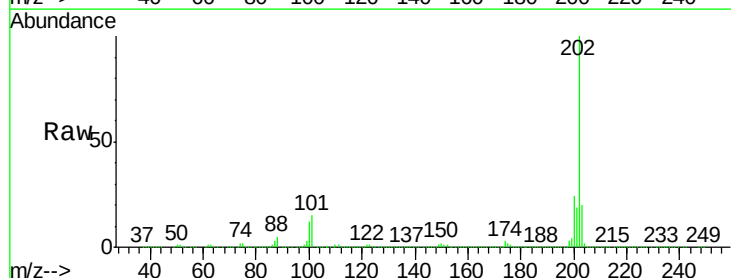
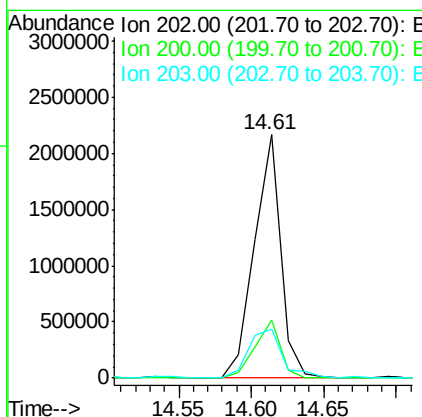
Manual Integrations
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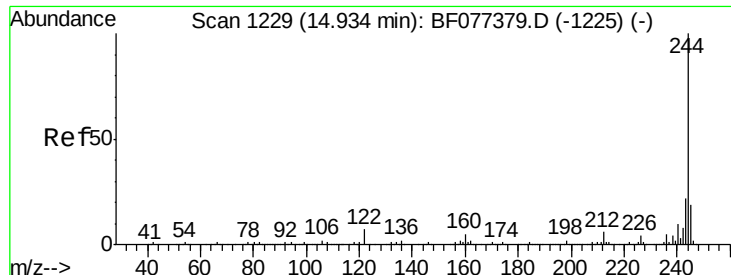
mohammad
3/5/2015 2:11:33 PM



#77
Pyrene
Concen: 161.60 ng
RT: 14.61 min Scan# 1201
Delta R.T. 0.01 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	23.8	17.1	25.7
203	19.9	14.2	21.2





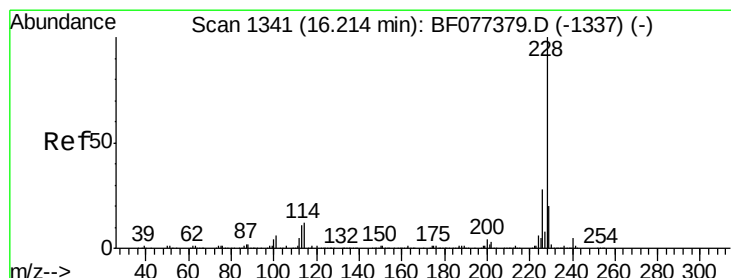
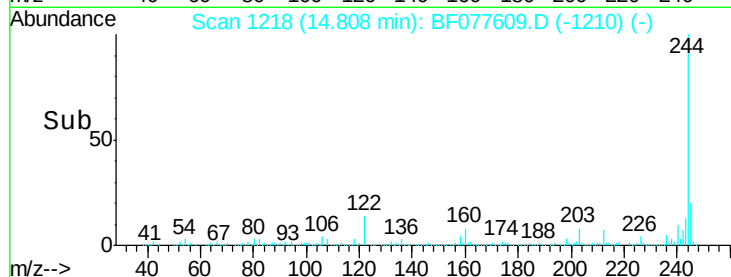
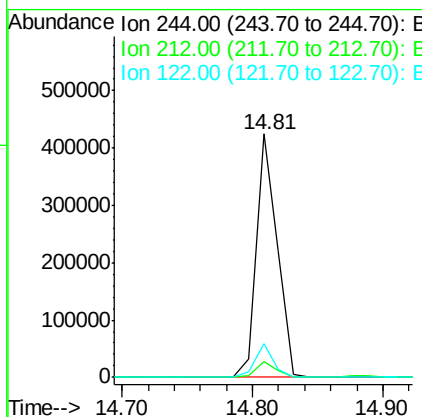
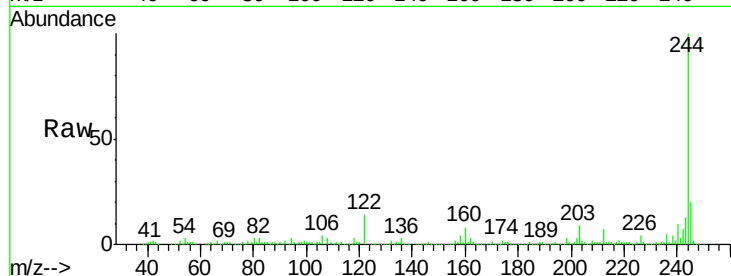
#78
 Terphenyl-d14
 Concen: 39.74 ng
 RT: 14.81 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Instrument :
 BNA_F
 ClientSampleId :
 SEP-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.7	5.2	7.8
122	13.8	7.8	11.8

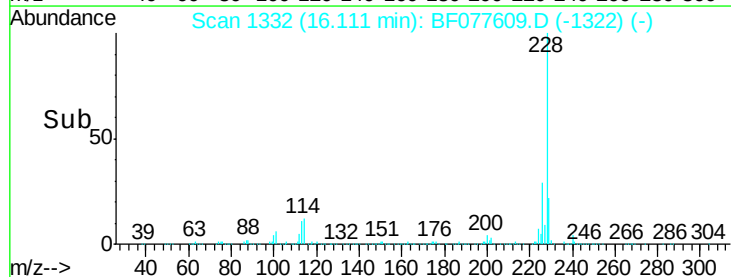
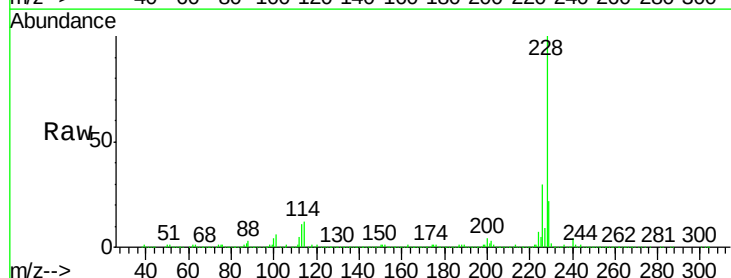
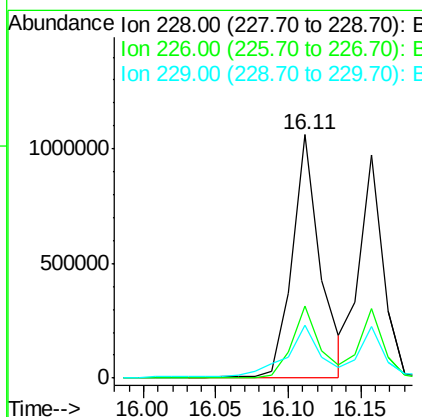
Manual Integrations
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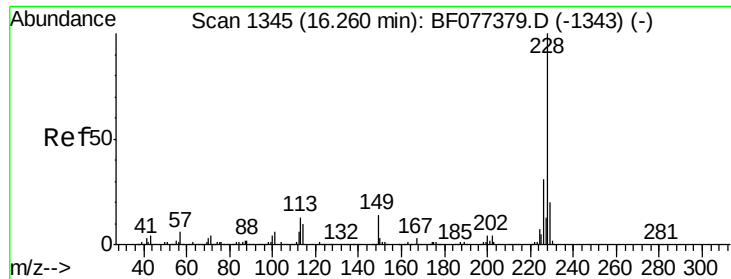
mohammad
 3/5/2015 2:11:33 PM



#80
 Benzo(a)anthracene
 Concen: 87.42 ng
 RT: 16.11 min Scan# 1332
 Delta R.T. 0.02 min
 Lab File: BF077609.D
 Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.5	22.0	33.0
229	21.8	15.8	23.8





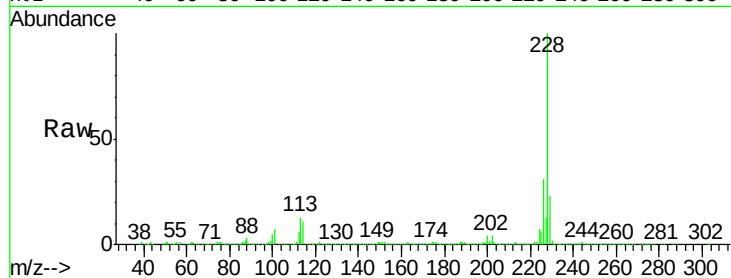
#82
Chrysene
Concen: 71.89 ng
RT: 16.15 min Scan# 1336
Delta R.T. 0.01 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

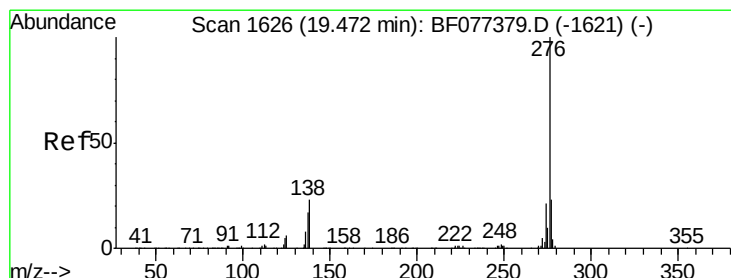
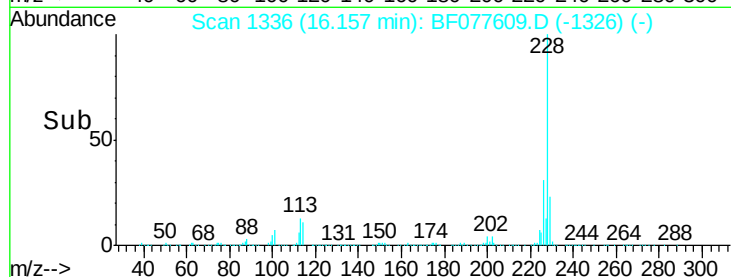
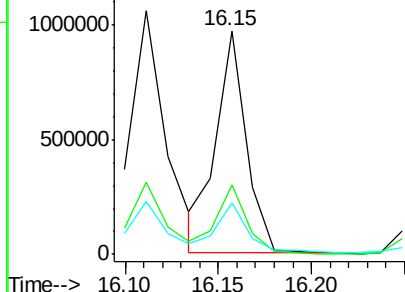
Tgt Ion: 228 Resp: 1099489
Ion Ratio Lower Upper
228 100
226 31.1 24.9 37.3
229 23.3 16.4 24.6

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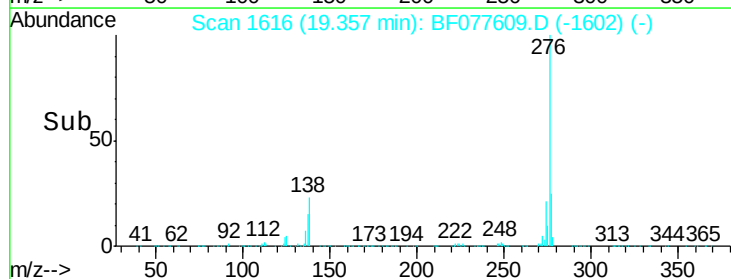
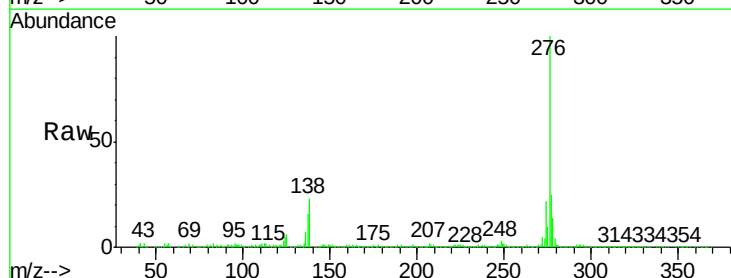
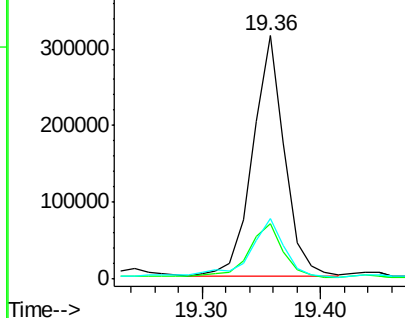
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

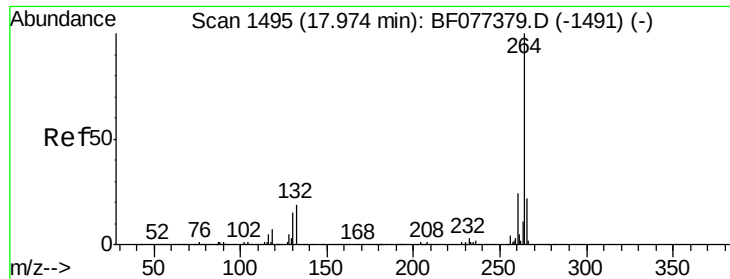


#85
Indeno(1,2,3-cd)pyrene
Concen: 33.47 ng
RT: 19.36 min Scan# 1616
Delta R.T. 0.06 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion: 276 Resp: 583649
Ion Ratio Lower Upper
276 100
138 23.8 21.2 31.8
277 27.9 20.0 30.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





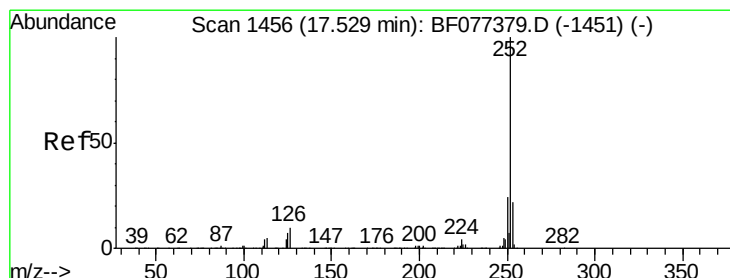
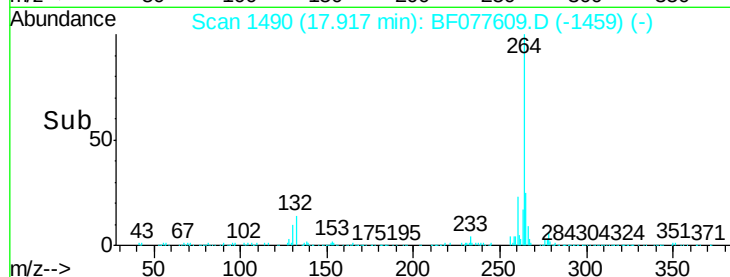
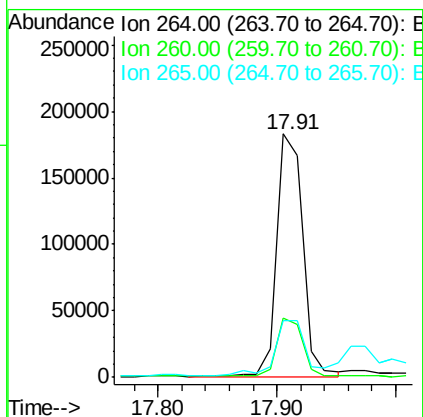
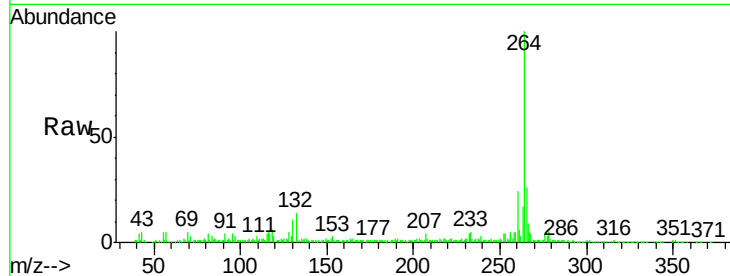
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.91 min Scan# 1490
Delta R.T. 0.05 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampleId :
SEP-1

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	273357		
260	23.6	19.3	28.9	
265	25.5	16.8	25.2#	

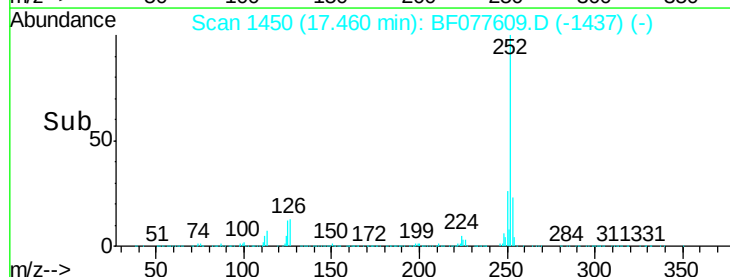
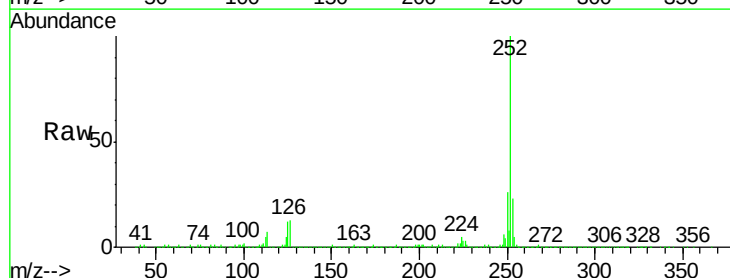
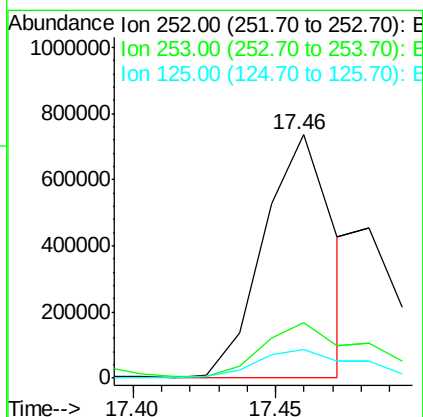
Manual Integrations
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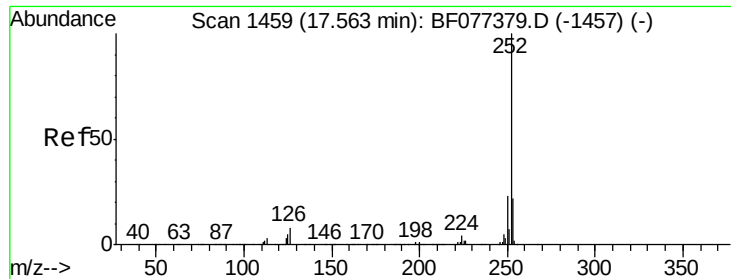
mohammad
3/5/2015 2:11:33 PM



#87
Benzo(b)fluoranthene
Concen: 79.22 ng m
RT: 17.46 min Scan# 1450
Delta R.T. 0.05 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1259221		
253	23.0	17.6	26.4	
125	12.0	5.4	8.2#	





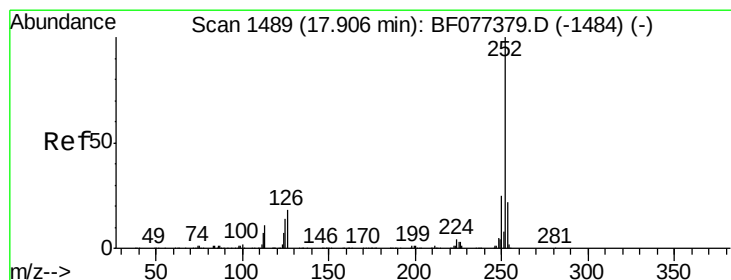
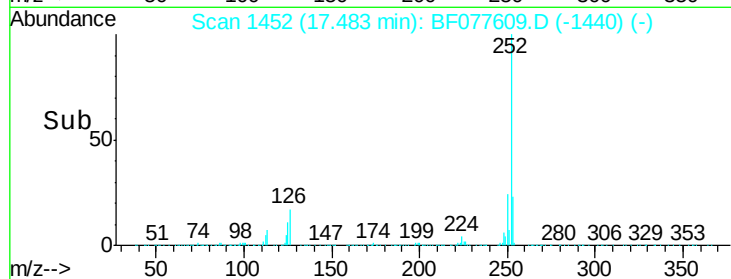
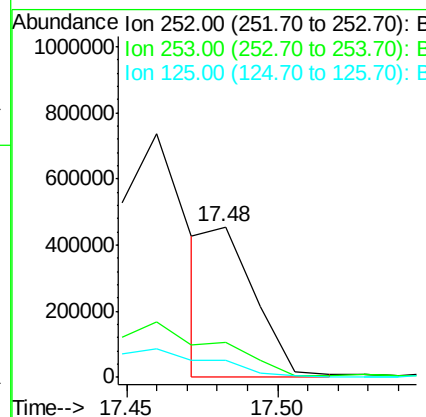
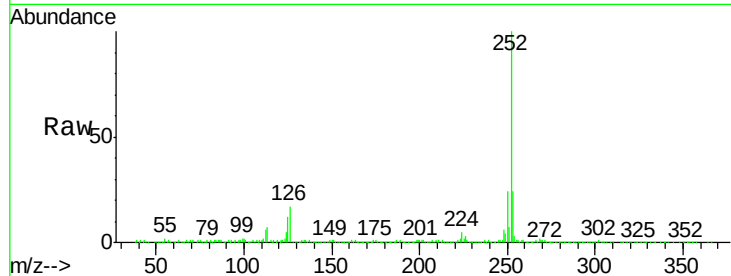
#88
Benzo(k)fluoranthene
Concen: 30.49 ng m
RT: 17.48 min Scan# 1452
Delta R.T. 0.04 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Instrument :
BNA_F
ClientSampled :
SEP-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	11.7	10.1	15.1

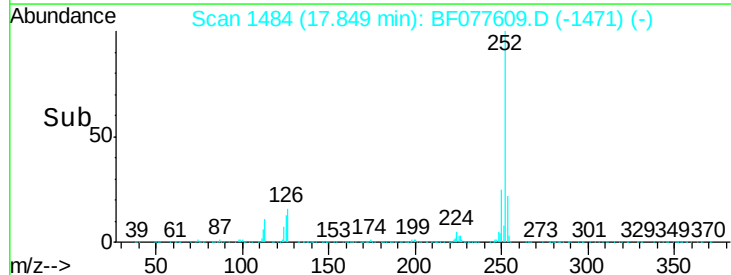
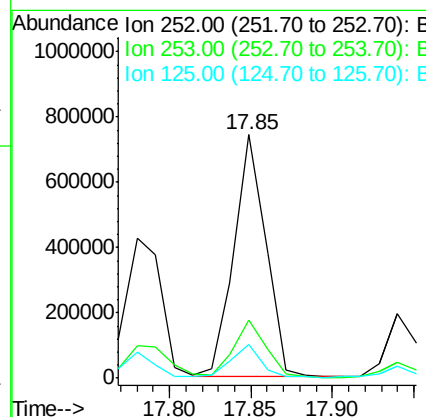
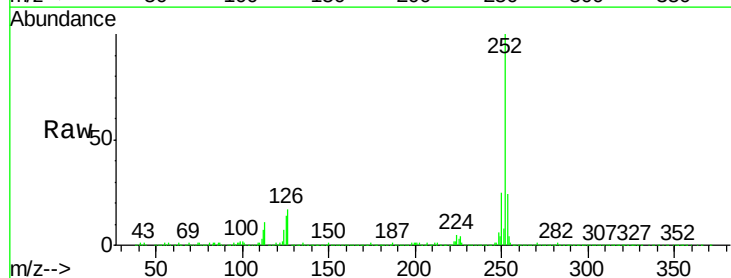
Manual Integrations
APPROVED

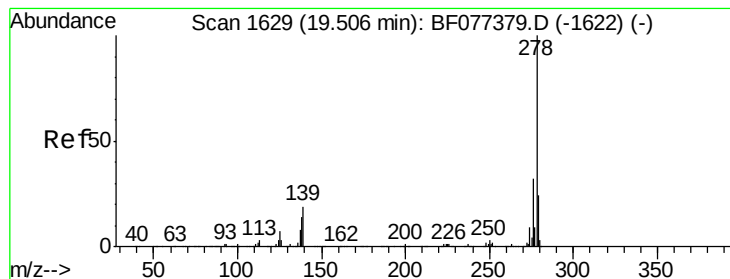
mohammad
3/5/2015 2:11:33 PM



#89
Benzo(a)pyrene
Concen: 65.64 ng
RT: 17.85 min Scan# 1484
Delta R.T. 0.05 min
Lab File: BF077609.D
Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	13.8	8.3	12.5#





#90

Dibenzo(a,h)anthracene

Concen: 10.44 ng

RT: 19.37 min Scan# 1617

Delta R.T. 0.05 min

Lab File: BF077609.D

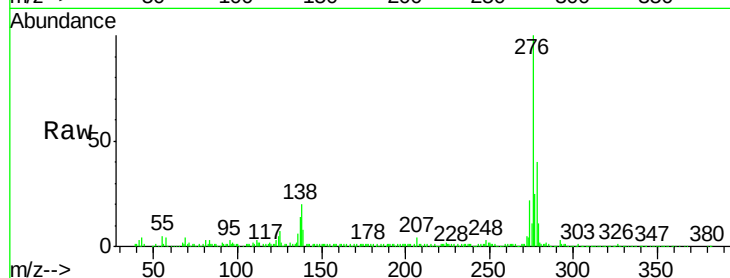
Acq: 5 Mar 2015 6:53

Instrument :

BNA_F

ClientSampleId :

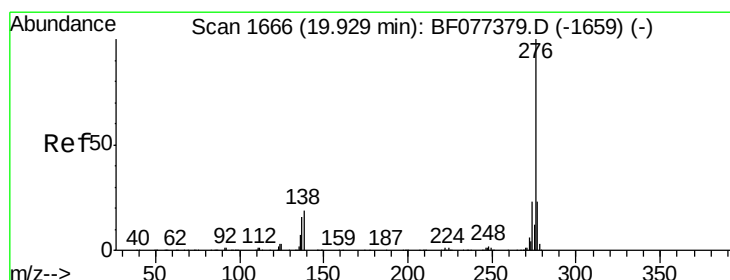
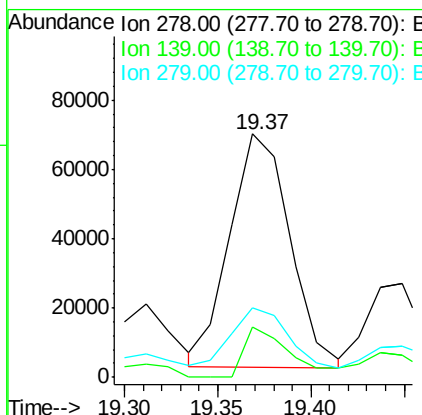
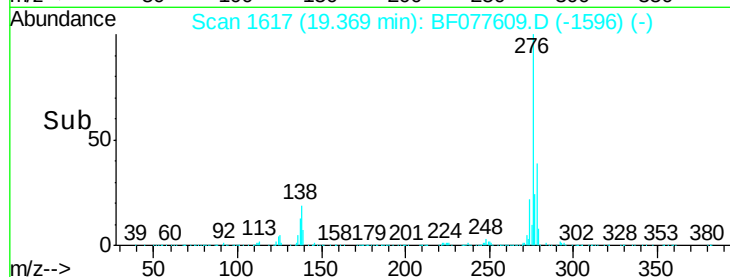
SEP-1



Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.3	21.5
279	28.8	19.0	28.6

Manual Integrations
APPROVED

mohammad
3/5/2015 2:11:33 PM



#91

Benzo(g,h,i)perylene

Concen: 38.03 ng

RT: 19.78 min Scan# 1653

Delta R.T. 0.06 min

Lab File: BF077609.D

Acq: 5 Mar 2015 6:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	25.8	20.5	30.7

