

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
 Data File : BE092222.D
 Acq On : 8 Aug 2016 18:56
 Operator : UM/SJ
 Sample : H4145-30
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 9550

Manual Integrations
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Quant Time: Aug 09 10:52:10 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 08 18:55:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10052	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	48317	5.00	ng	-0.02
10) Acenaphthene-d10	14.83	164	27190	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	65528	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	74421	5.00	ng	-0.02
28) Perylene-d12	24.14	264	73082	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	7304	2.83	ng	0.00
5) Phenol-d6	7.35	99	11655	3.39	ng	0.00
7) Nitrobenzene-d5	9.34	82	6423	1.68	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	5731	6.49	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	17064	1.98	ng	0.00
24) Terphenyl-d14	20.19	244	40497	3.79	ng	-0.02
Target Compounds						Qvalue
8) Naphthalene	11.03	128	15618	1.50	ng	96
13) Acenaphthylene	14.54	152	350284	7.30	ng	98
14) Acenaphthene	14.90	154	37593	4.92	ng	92
15) Fluorene	15.88	166	26965	2.78	ng	99
19) Phenanthrene	17.60	178	110807	6.23	ng	100
20) Anthracene	17.70	178	57043	3.27	ng	99
21) Fluoranthene	19.61	202	587498	7.33	ng	97
23) Pyrene	19.99	202	380244	4.89	ng	97
25) Benzo(a)anthracene	21.72	228	254438m	3.11	ng	
26) Chrysene	21.77	228	566223m	6.91	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	210312	2.36	ng	99
29) Benzo(b)fluoranthene	23.40	252	73394	3.67	ng	97
30) Benzo(k)fluoranthene	23.45	252	60622	3.16	ng	96
31) Benzo(a)pyrene	24.02	252	92668	5.04	ng	96
32) Dibenzo(a,h)anthracene	26.65	278	35871	2.05	ng	96
33) Benzo(g,h,i)perylene	27.42	276	728531	9.73	ng	94

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

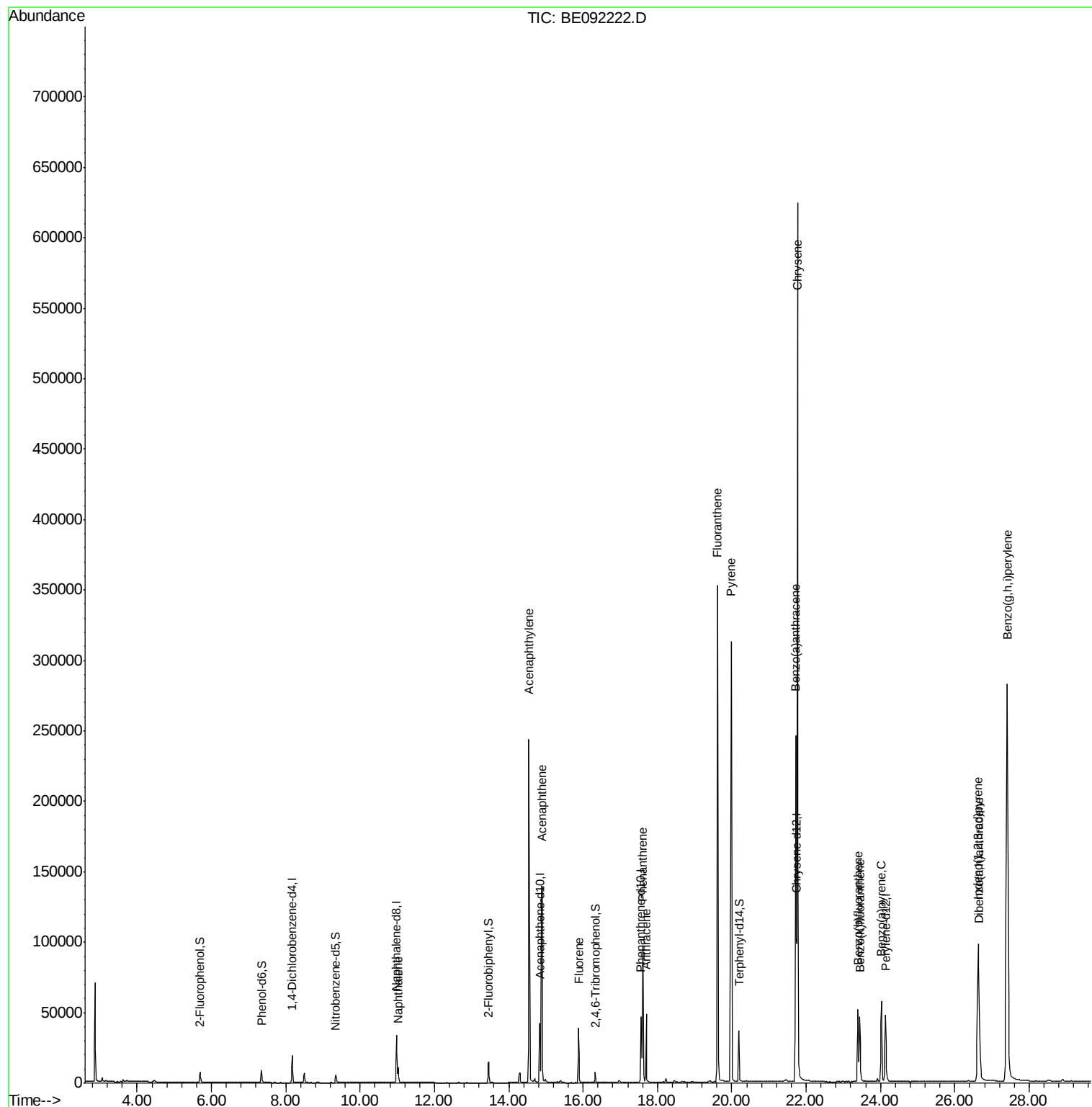
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080816\
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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-PAH-BE080216.M
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#1

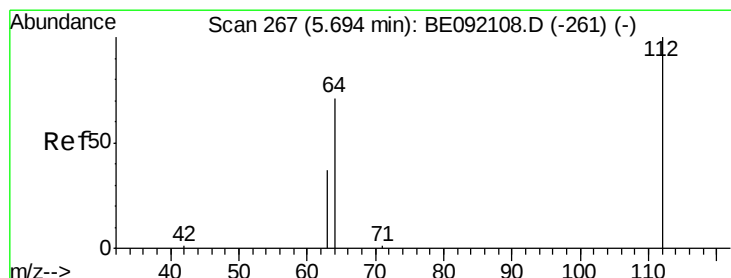
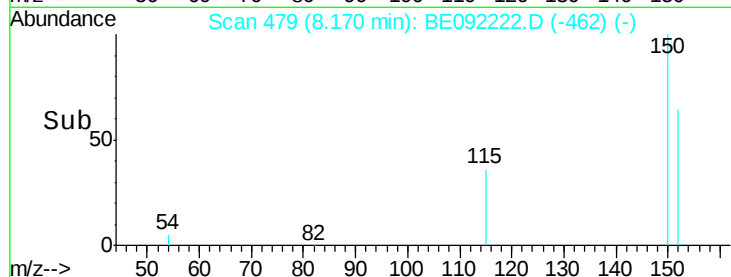
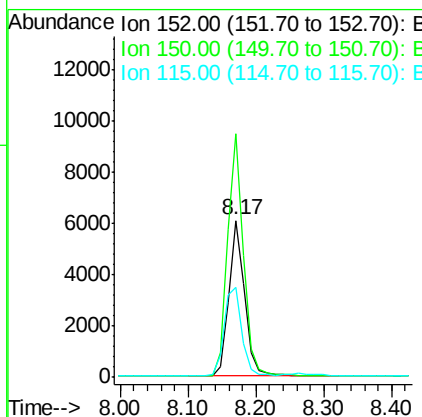
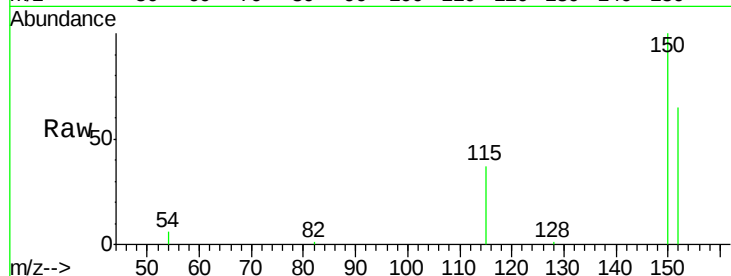
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.17 min Scan# 479
Delta R.T. -0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampleId :
9550

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.9	106.0	159.0
115	57.0	36.9	55.3

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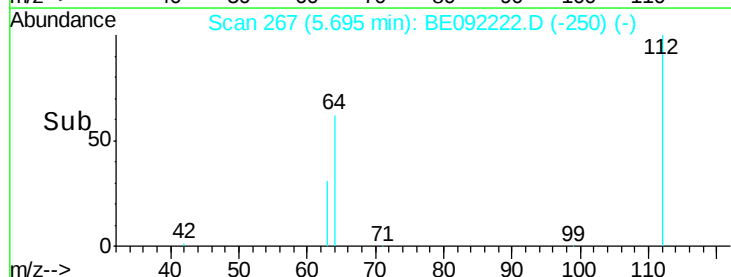
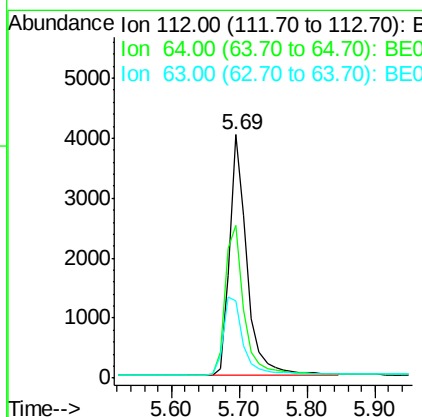
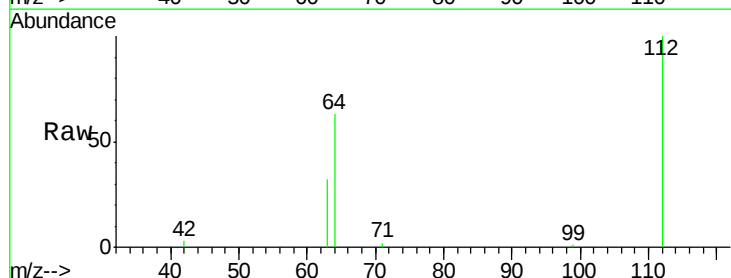
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#4

2-Fluorophenol
Concen: 2.83 ng
RT: 5.69 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	55.9	83.9
63	37.2	31.1	46.7





#5

Phenol-d6

Concen: 3.39 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Instrument :

BNA_E

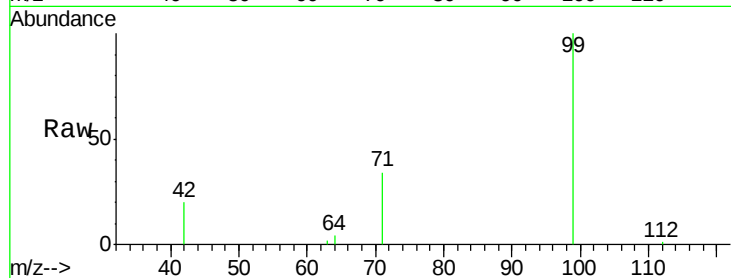
ClientSampleId :

9550

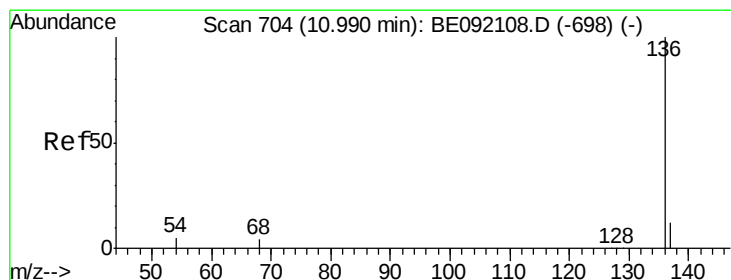
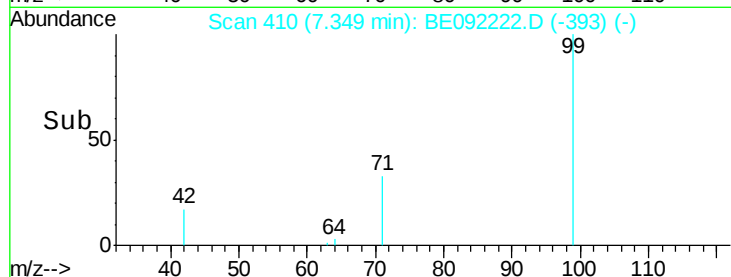
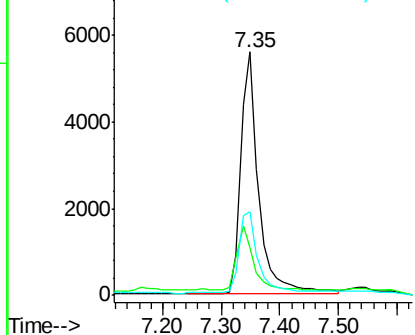
Tgt Ion:	99	Resp:	11655
Ion Ratio	Lower	Upper	
99	100		
42	25.1	22.4	33.6
71	35.8	28.9	43.3

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

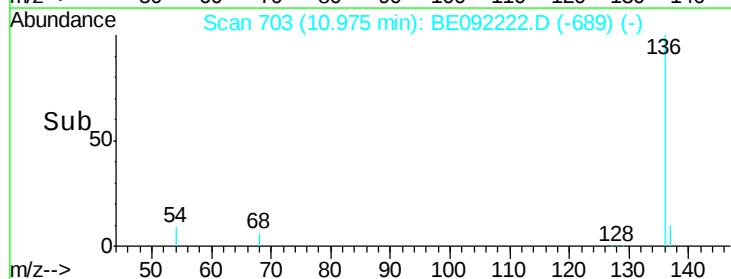
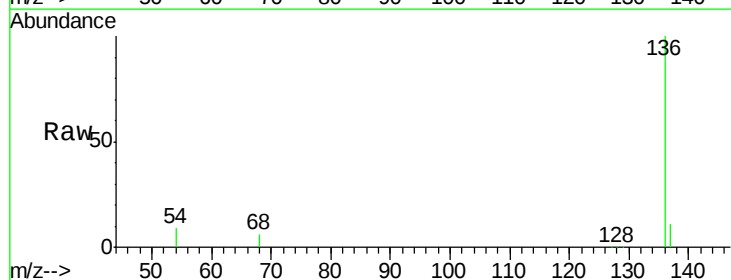
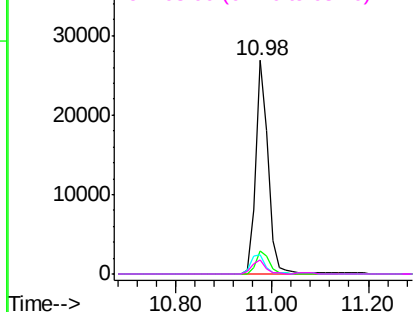
Delta R.T. -0.02 min

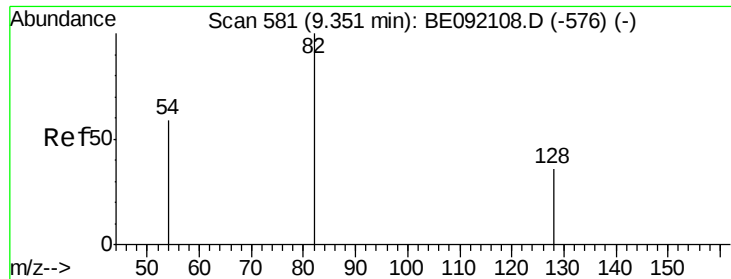
Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Tgt Ion:	136	Resp:	48317
Ion Ratio	Lower	Upper	
136	100		
137	10.5	9.1	13.7
54	9.0	2.7	4.1#
68	6.4	2.2	3.4#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 1.68 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092222.D

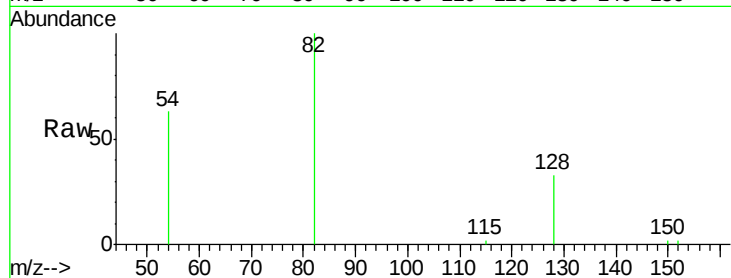
Acq: 8 Aug 2016 18:56

Instrument :

BNA_E

ClientSampleId :

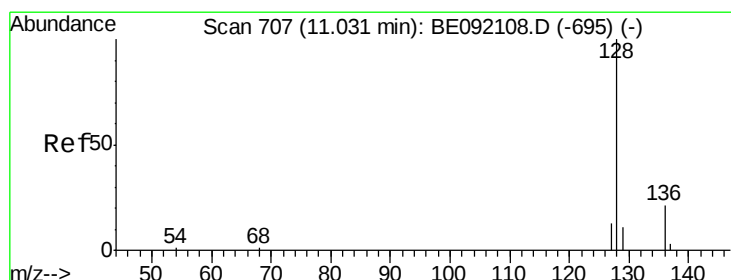
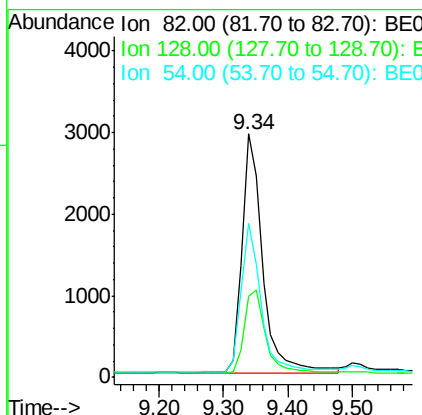
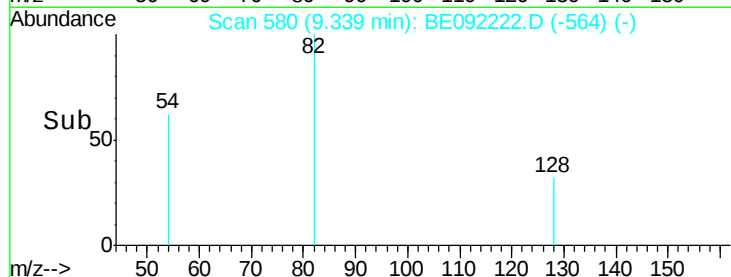
9550



Tgt Ion:	82	Resp:	6423
Ion	Ratio	Lower	Upper
82	100		
128	33.2	33.0	49.4
54	63.4	42.6	63.8

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#8

Naphthalene

Concen: 1.50 ng

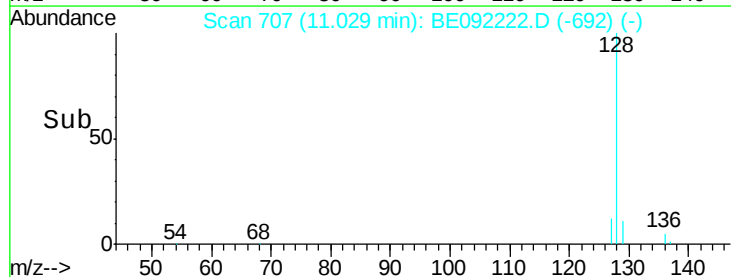
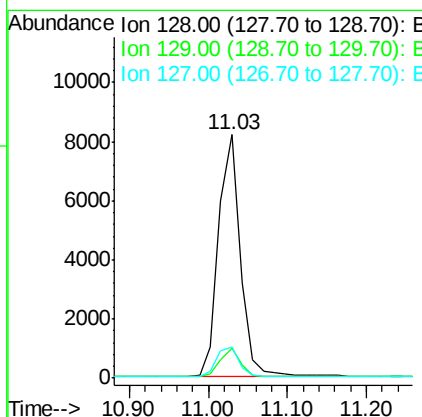
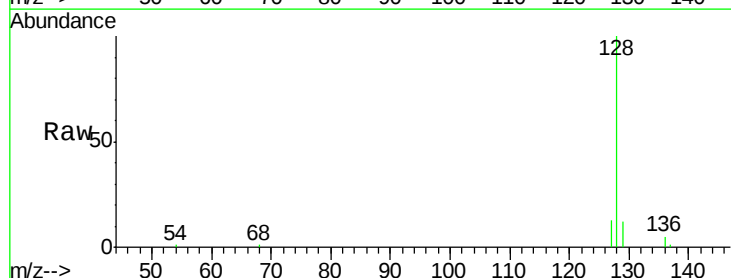
RT: 11.03 min Scan# 707

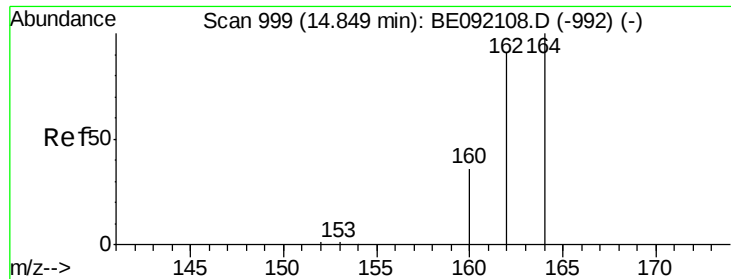
Delta R.T. -0.00 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Tgt Ion:	128	Resp:	15618
Ion	Ratio	Lower	Upper
128	100		
129	12.0	11.1	16.7
127	12.6	11.3	16.9





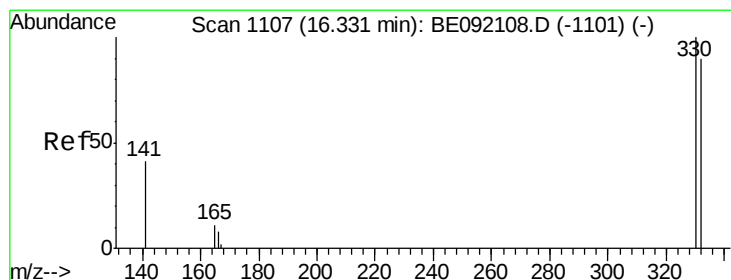
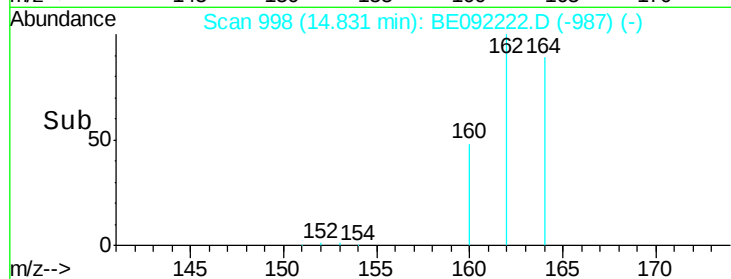
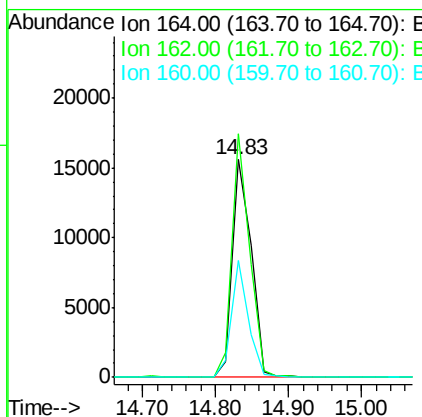
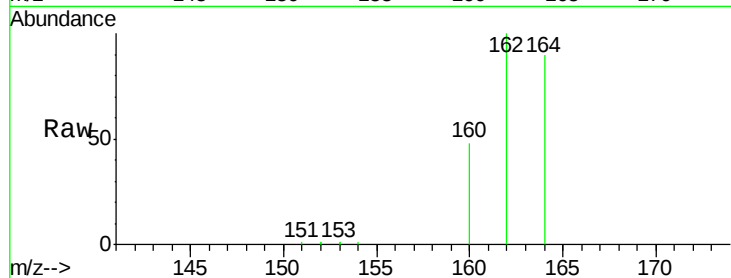
#10
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.83 min Scan# 998
Delta R.T. -0.02 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampleId :
9550

Tgt Ion:164 Resp: 27190
Ion Ratio Lower Upper
164 100
162 111.7 69.5 104.3#
160 53.9 27.6 41.4#

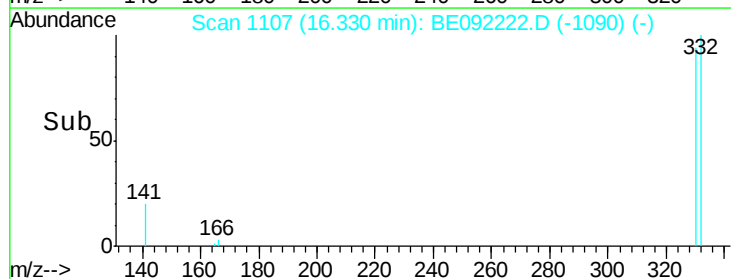
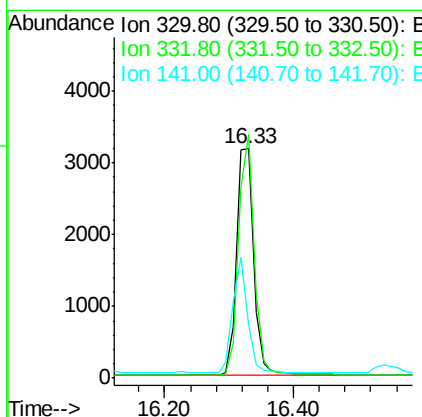
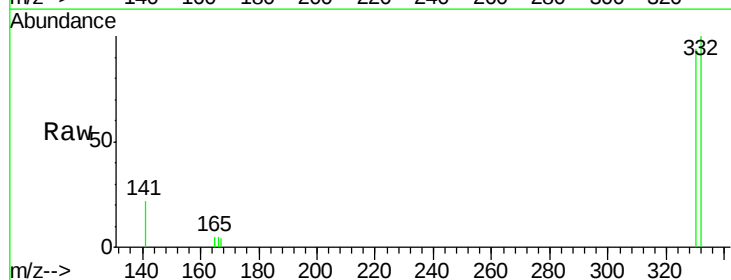
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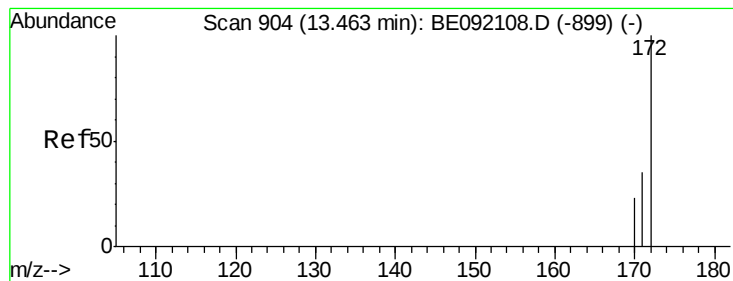
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#11
2,4,6-Tribromophenol
Concen: 6.49 ng
RT: 16.33 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion:330 Resp: 5731
Ion Ratio Lower Upper
330 100
332 96.7 74.2 111.4
141 44.4 139.8 209.8#





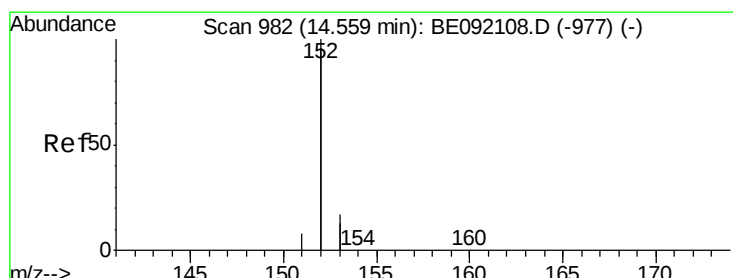
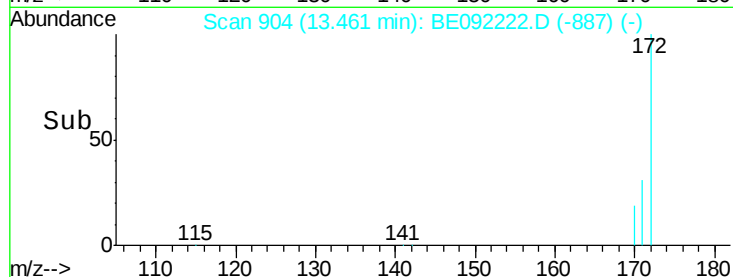
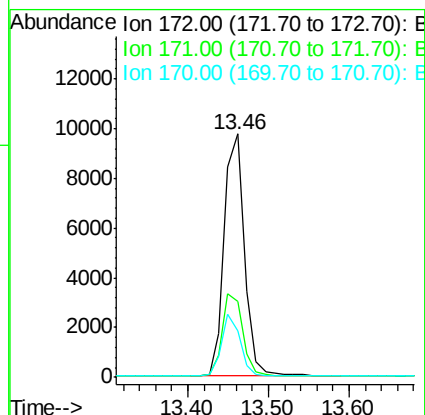
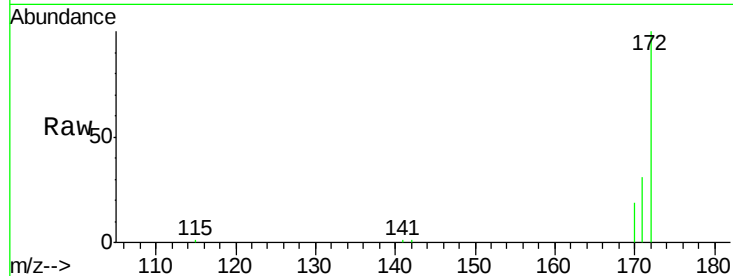
#12
2-Fluorobiphenyl
Concen: 1.98 ng
RT: 13.46 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampleId :
9550

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.4	30.3	45.5
170	19.1	21.6	32.4

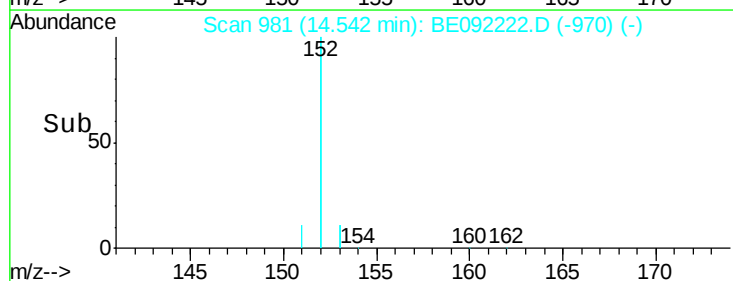
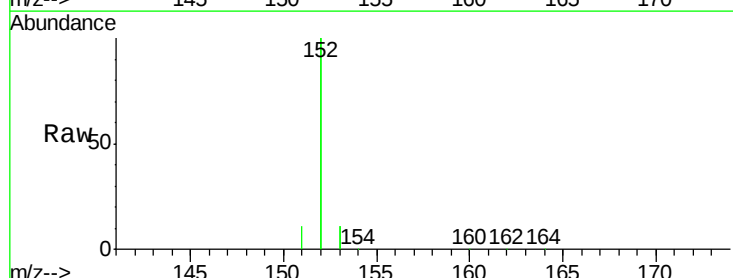
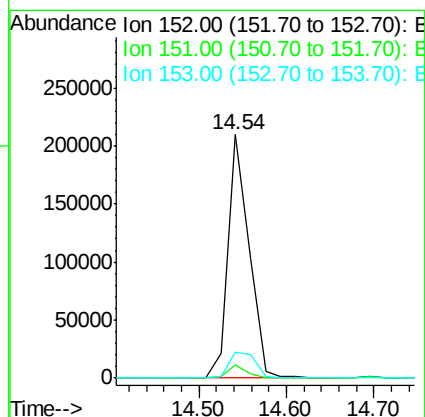
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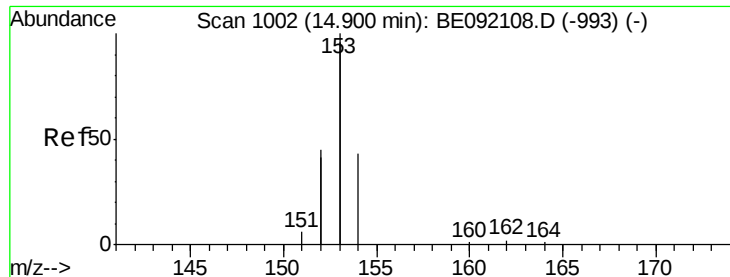
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#13
Acenaphthylene
Concen: 7.30 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
152	100		
151	5.0	4.0	6.0
153	13.1	9.6	14.4





#14

Acenaphthene

Concen: 4.92 ng

RT: 14.90 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Instrument :

BNA_E

ClientSampleId :

9550

Tgt Ion:154 Resp: 37593

Ion Ratio Lower Upper

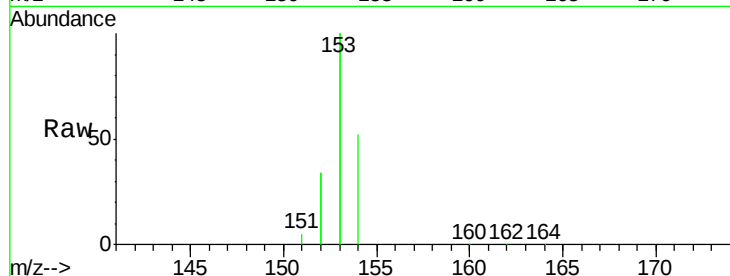
154 100

153 457.7 345.1 517.7

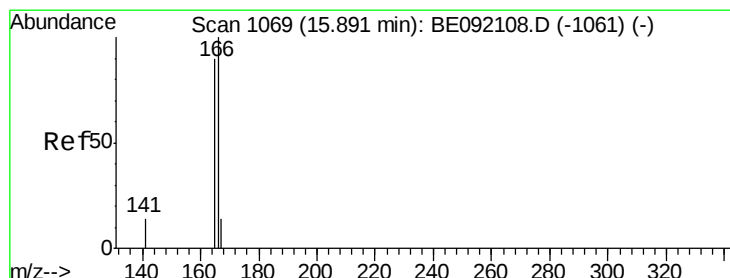
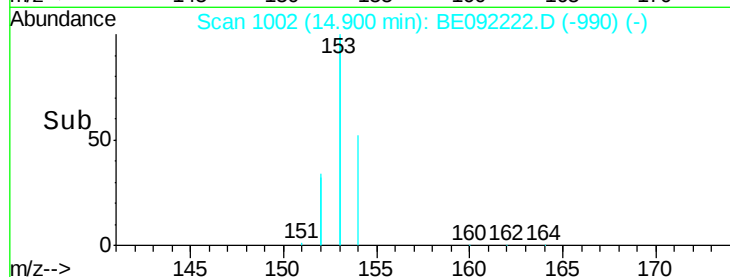
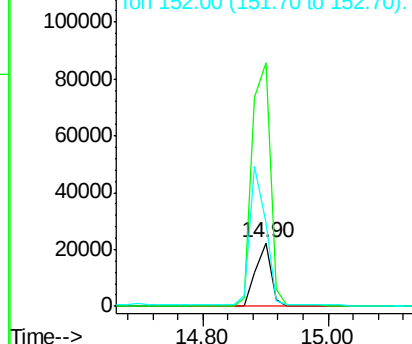
152 226.0 176.0 264.0

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#15

Fluorene

Concen: 2.78 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

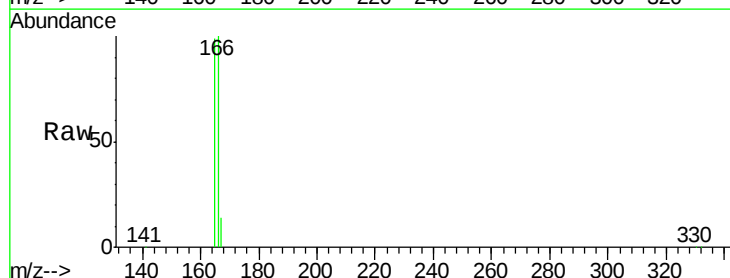
Tgt Ion:166 Resp: 26965

Ion Ratio Lower Upper

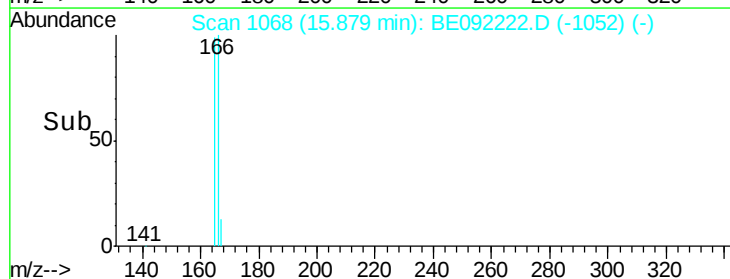
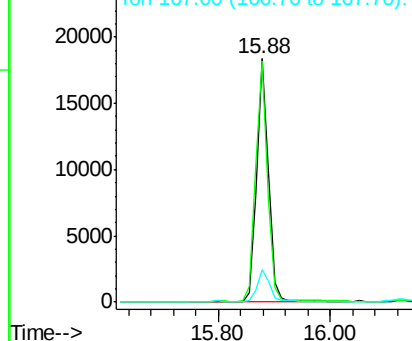
166 100

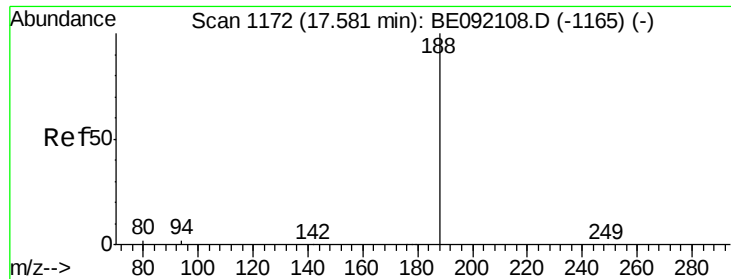
165 98.9 78.6 118.0

167 14.0 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





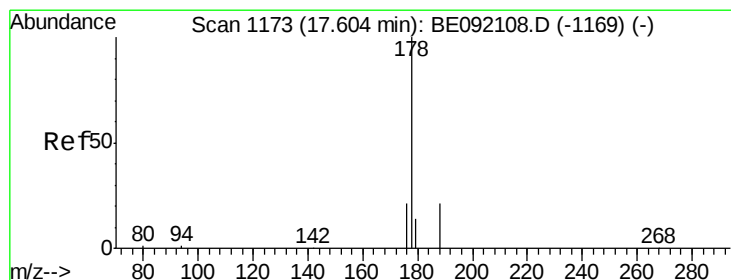
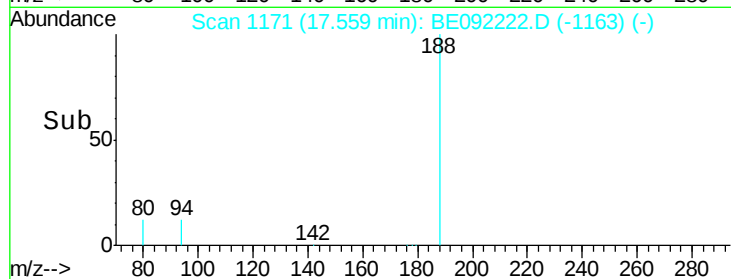
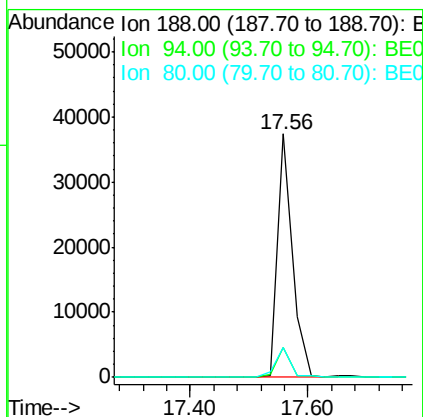
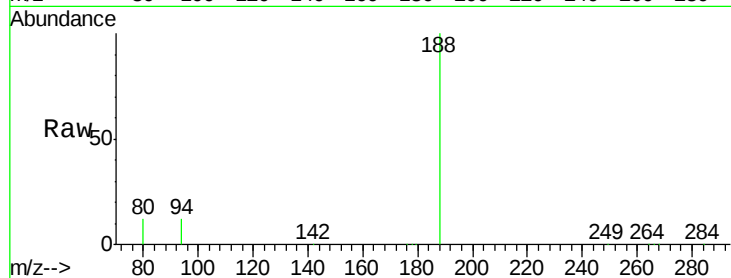
#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampleId :
9550

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	12.1	3.9	5.9#
80	12.1	3.4	5.0#

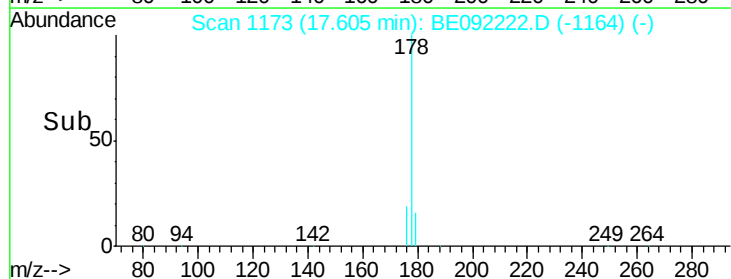
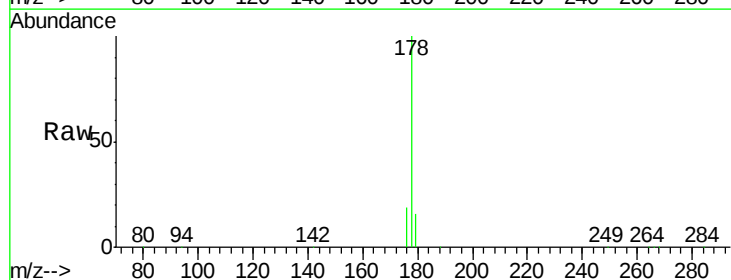
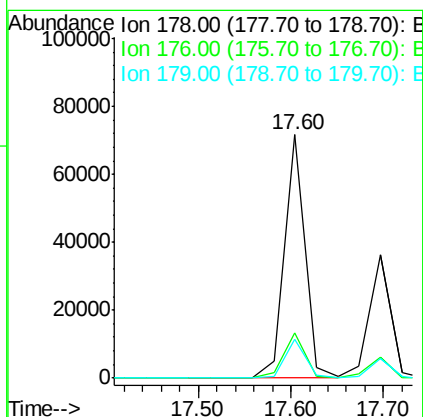
Manual Integrations
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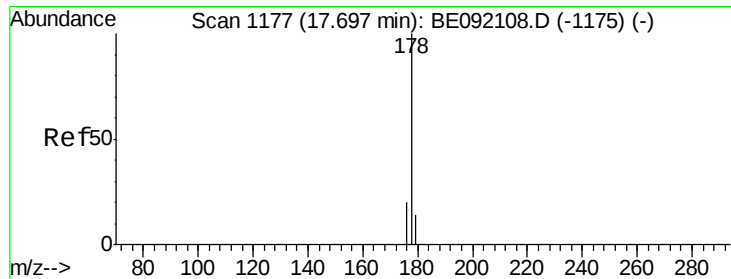
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#19
Phenanthrene
Concen: 6.23 ng
RT: 17.60 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	15.4	23.0
179	15.8	12.7	19.1





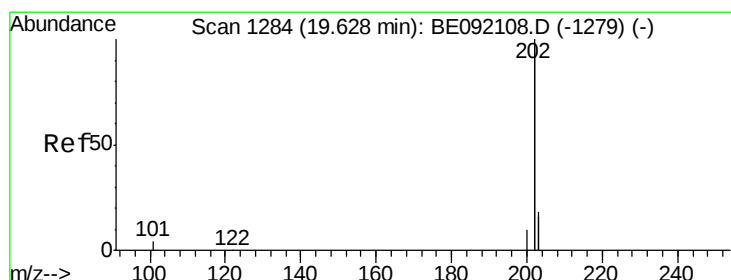
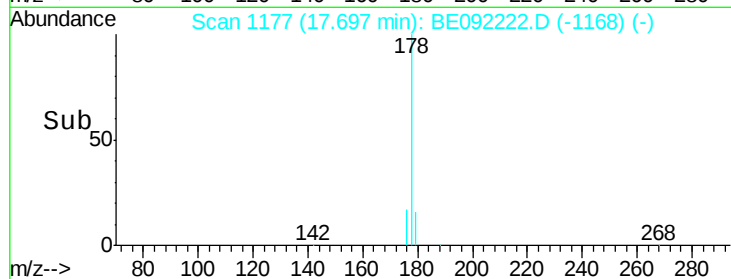
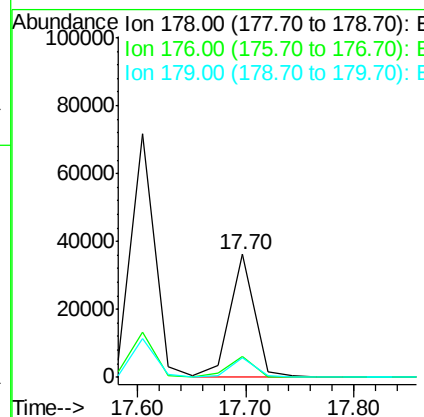
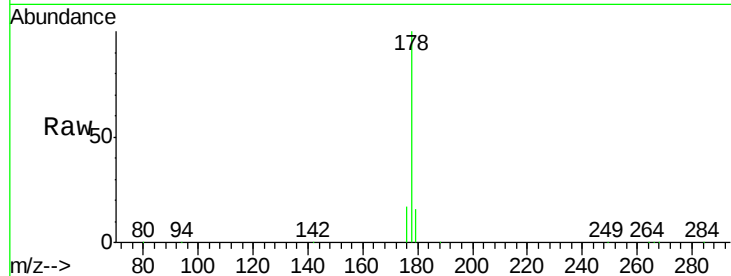
#20
 Anthracene
 Concen: 3.27 ng
 RT: 17.70 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Instrument :
 BNA_E
 ClientSampled :
 9550

Tgt Ion:178 Resp: 57043
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.2 22.8
 179 15.6 12.2 18.4

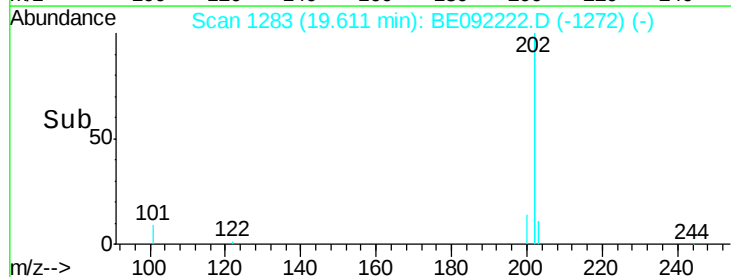
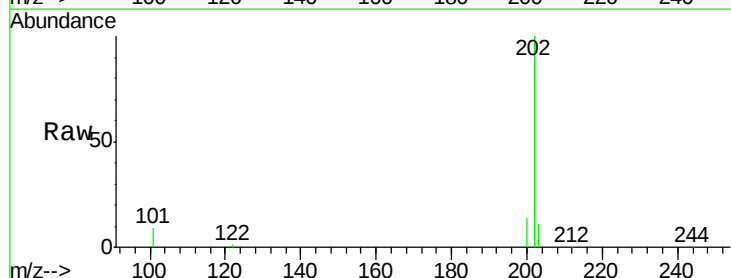
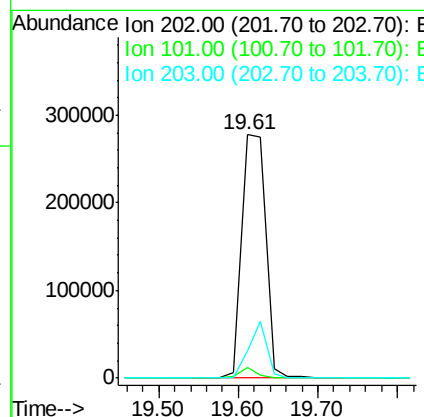
Manual Integrations
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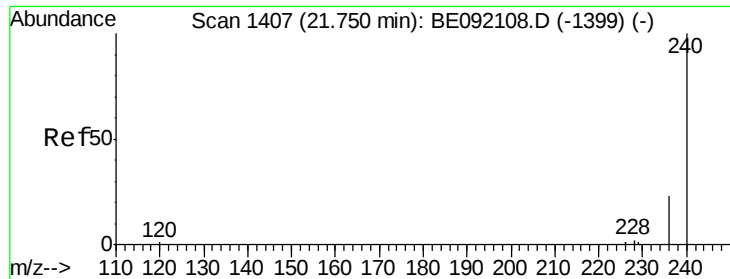
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#21
 Fluoranthene
 Concen: 7.33 ng
 RT: 19.61 min Scan# 1283
 Delta R.T. -0.02 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Tgt Ion:202 Resp: 587498
 Ion Ratio Lower Upper
 202 100
 101 2.9 2.2 3.2
 203 17.5 13.0 19.4





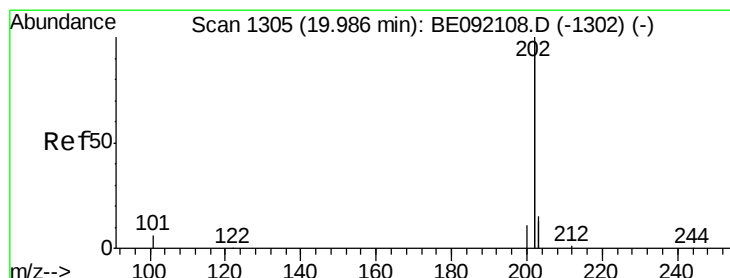
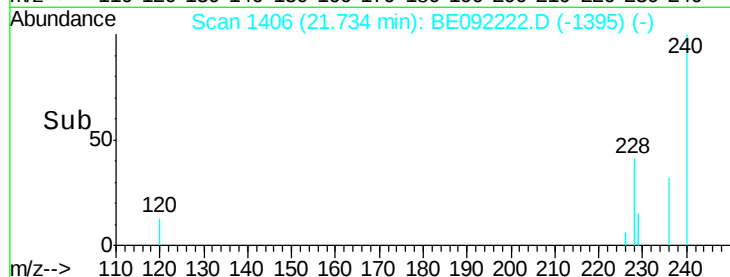
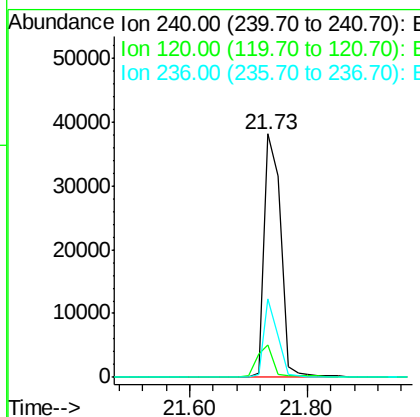
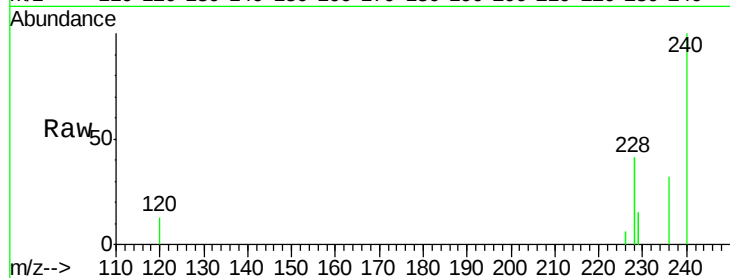
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.73 min Scan# 1406
Delta R.T. -0.02 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampled :
9550

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	0.6	1.0#
236	32.5	18.2	27.4#

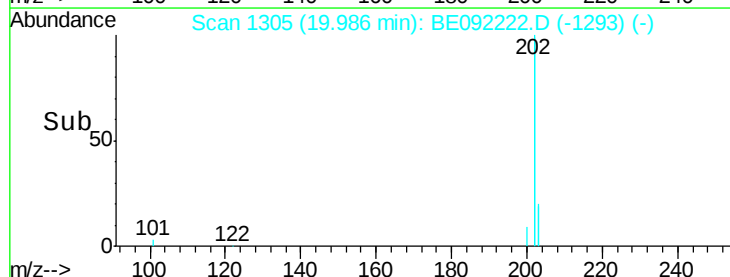
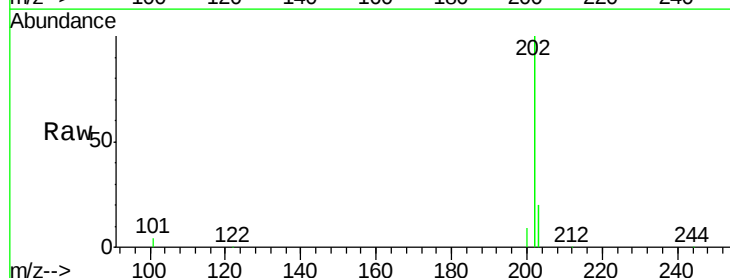
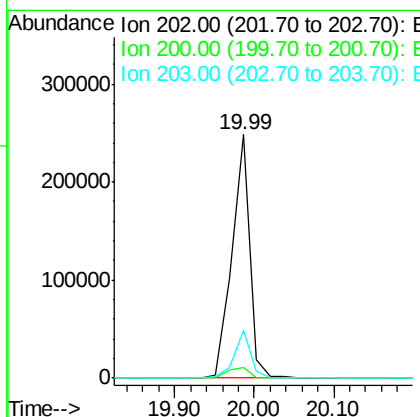
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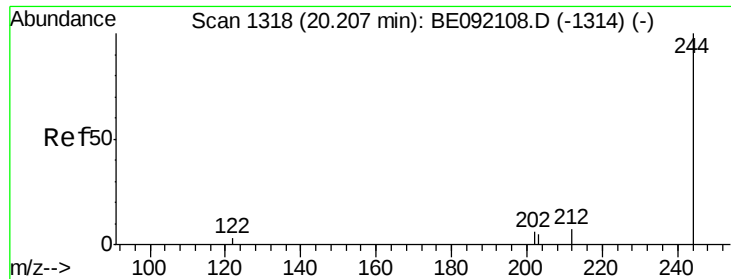
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#23
Pyrene
Concen: 4.89 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.4	6.6
203	18.5	13.4	20.0





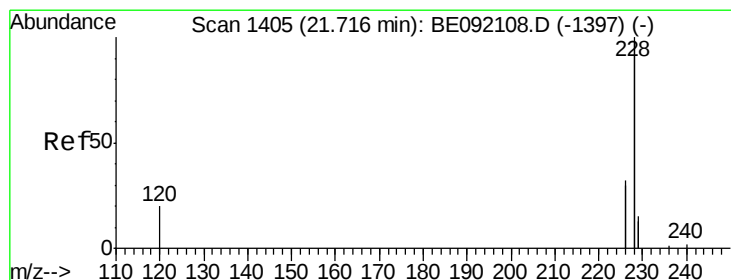
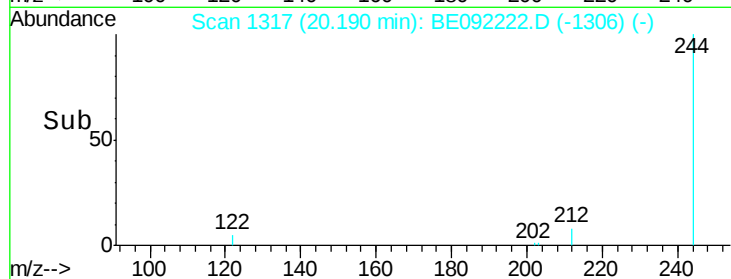
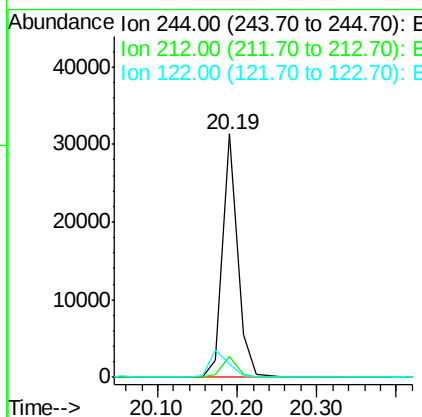
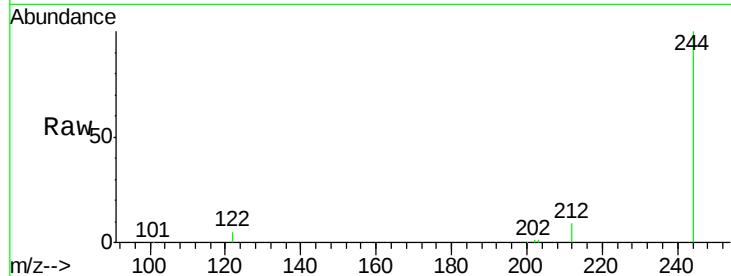
#24
 Terphenyl-d14
 Concen: 3.79 ng
 RT: 20.19 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Instrument :
 BNA_E
 ClientSampleId :
 9550

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	9.1	13.7#
122	5.3	11.0	16.4#

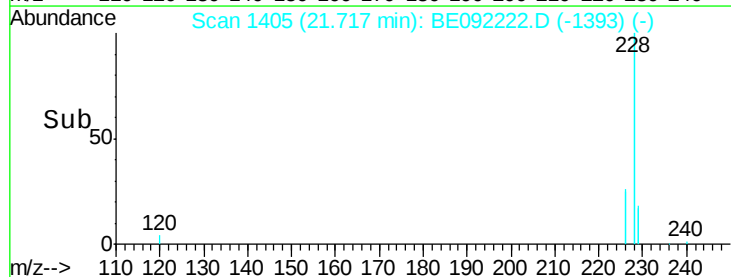
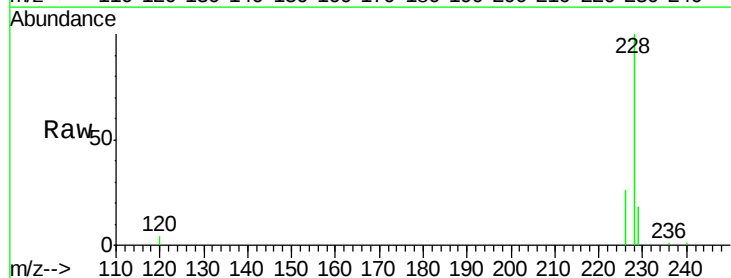
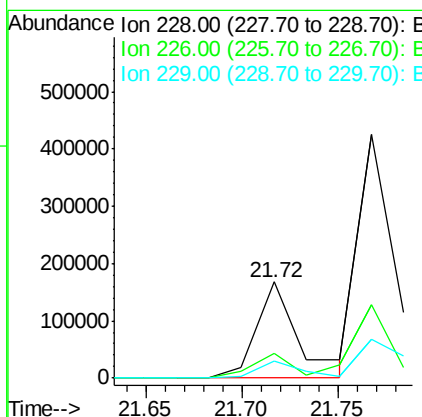
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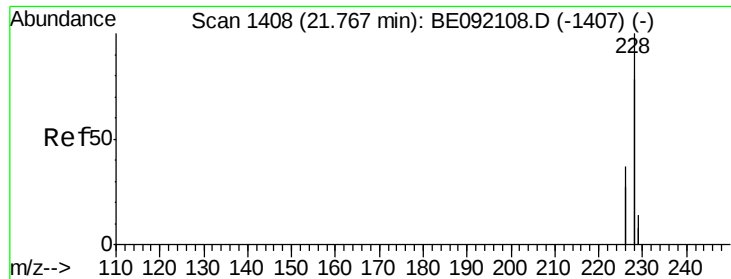
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#25
 Benzo(a)anthracene
 Concen: 3.11 ng m
 RT: 21.72 min Scan# 1405
 Delta R.T. 0.00 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.8	22.1	33.1
229	17.8	15.1	22.7





#26

Chrysene

Concen: 6.91 ng m

RT: 21.77 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Instrument :

BNA_E

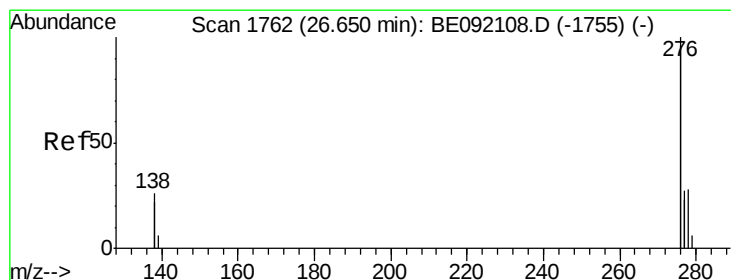
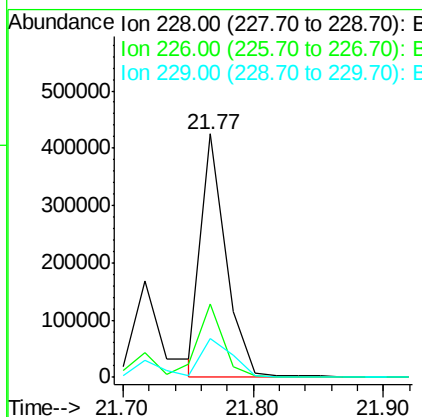
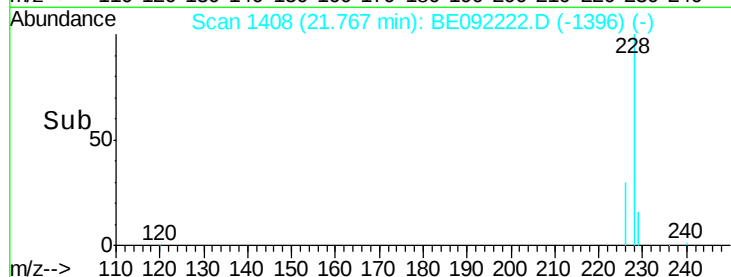
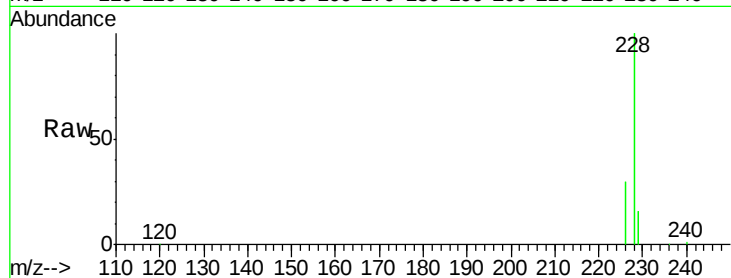
ClientSampleId :

9550

Tgt Ion:	228	Resp:	566223
Ion Ratio	Lower	Upper	
228	100		
226	30.4	22.3	33.5
229	16.2	16.9	25.3#

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#27

Indeno(1,2,3-cd)pyrene

Concen: 2.36 ng

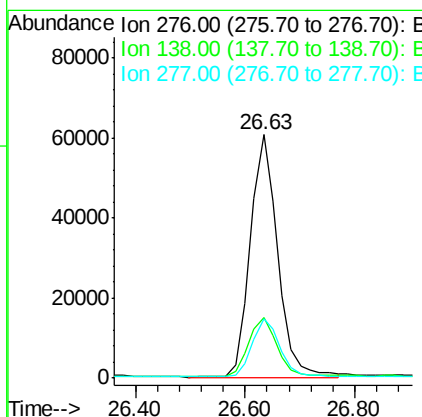
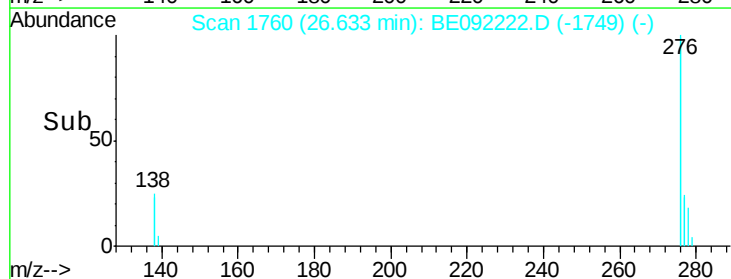
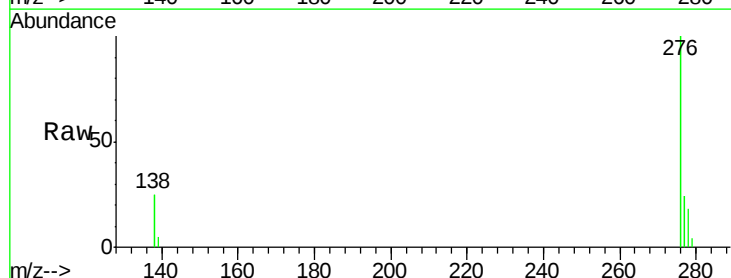
RT: 26.63 min Scan# 1760

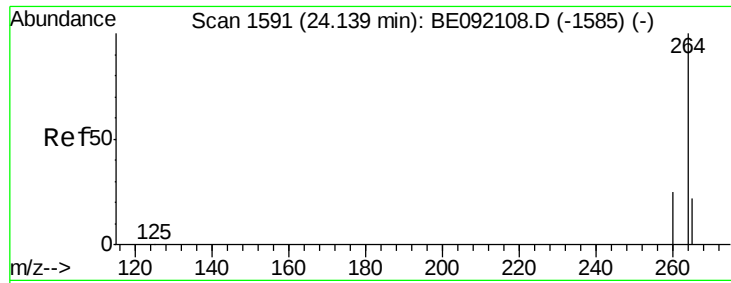
Delta R.T. -0.02 min

Lab File: BE092222.D

Acq: 8 Aug 2016 18:56

Tgt Ion:	276	Resp:	210312
Ion Ratio	Lower	Upper	
276	100		
138	25.5	21.2	31.8
277	24.6	19.8	29.8





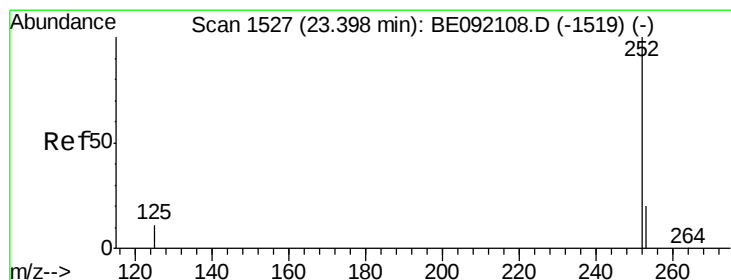
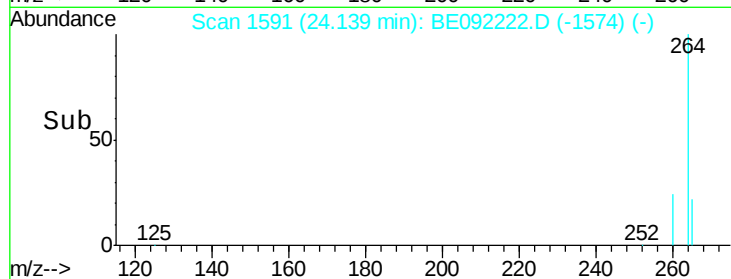
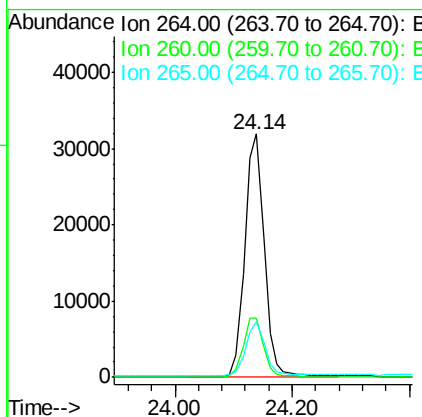
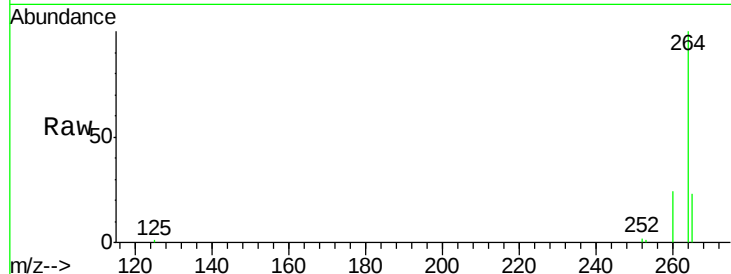
#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Instrument :
 BNA_E
 ClientSampleId :
 9550

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.8	31.2
265	22.8	16.6	25.0

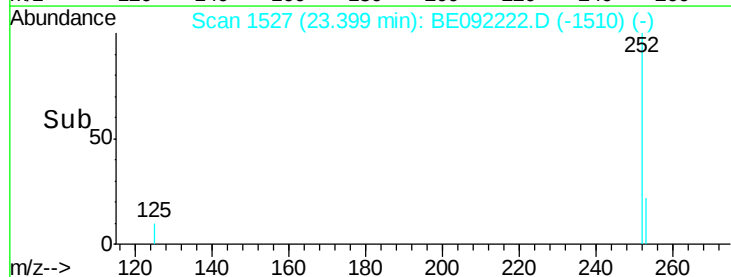
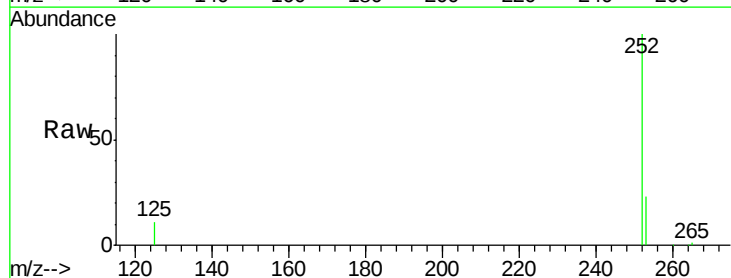
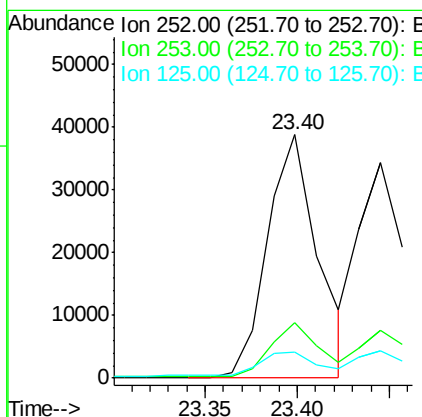
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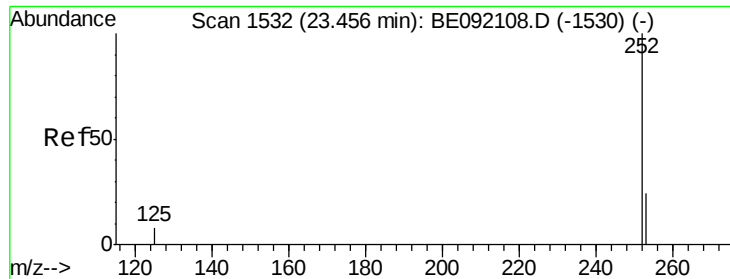
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#29
 Benzo(b)fluoranthene
 Concen: 3.67 ng
 RT: 23.40 min Scan# 1527
 Delta R.T. 0.00 min
 Lab File: BE092222.D
 Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.0
125	10.8	10.2	15.2





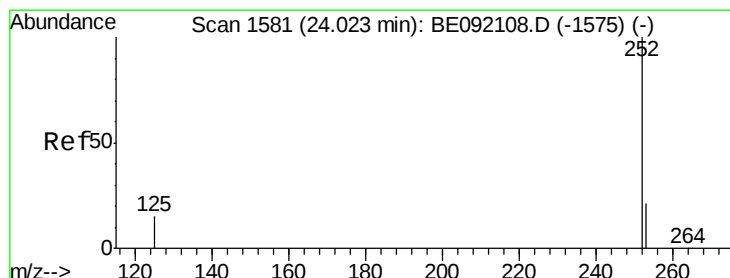
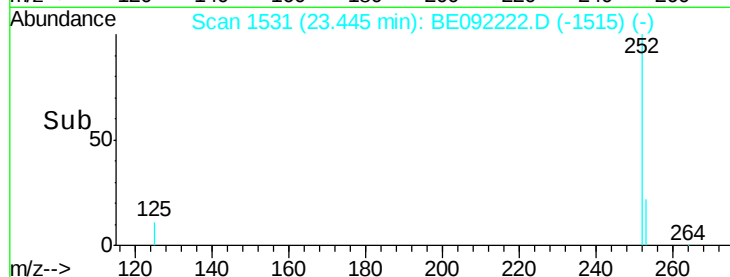
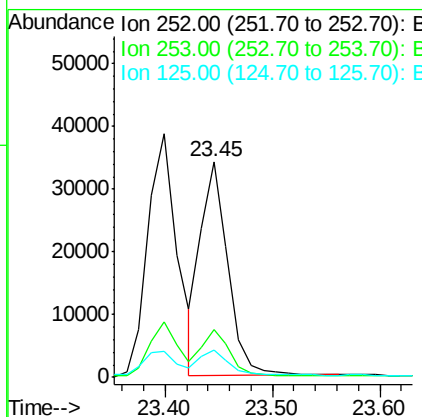
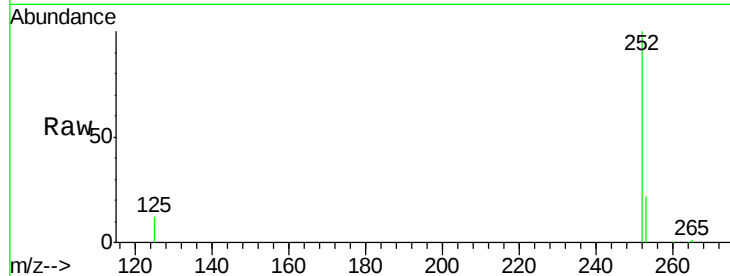
#30
Benzo(k)fluoranthene
Concen: 3.16 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampleId :
9550

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.4	29.0
125	12.5	8.9	13.3

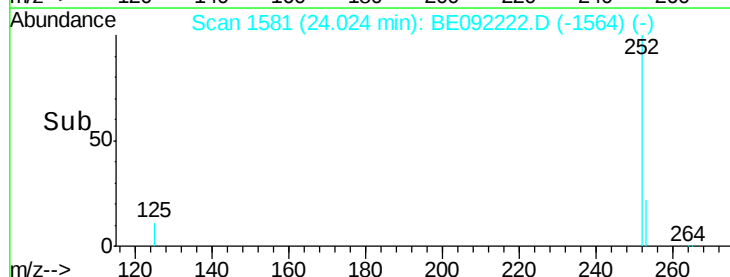
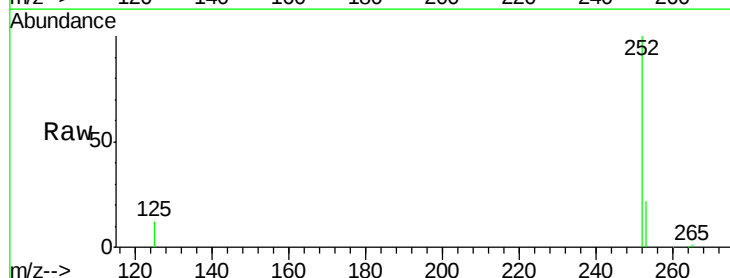
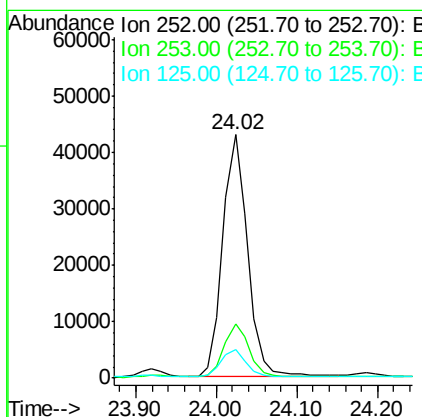
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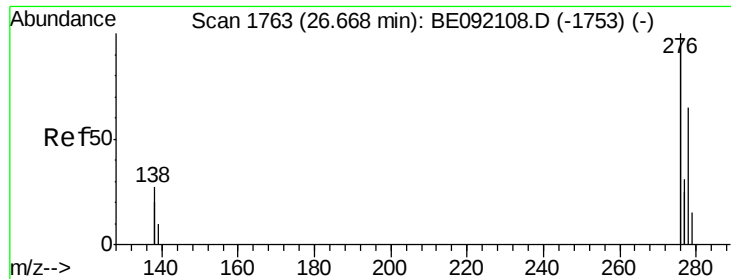
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#31
Benzo(a)pyrene
Concen: 5.04 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.8	29.8
125	11.7	10.4	15.6





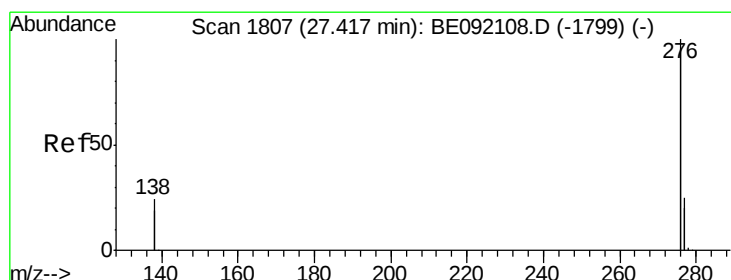
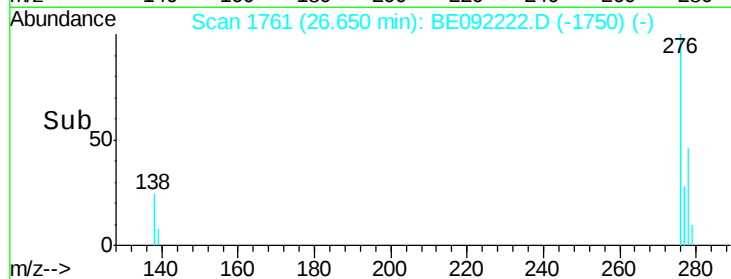
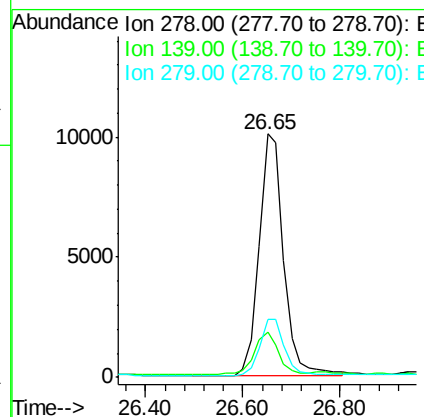
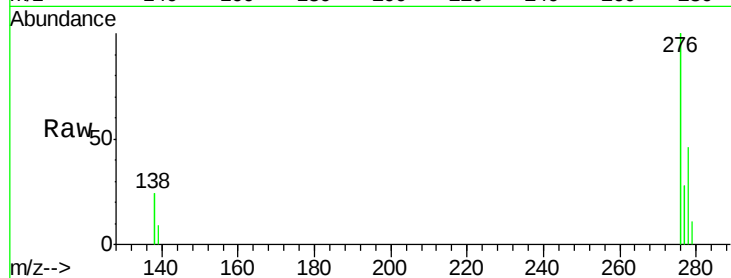
#32
Dibenzo(a,h)anthracene
Concen: 2.05 ng
RT: 26.65 min Scan# 1761
Delta R.T. -0.02 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Instrument :
BNA_E
ClientSampled :
9550

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.7	16.7	25.1
279	23.7	20.3	30.5

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#33
Benzo(g,h,i)perylene
Concen: 9.73 ng
RT: 27.42 min Scan# 1806
Delta R.T. -0.00 min
Lab File: BE092222.D
Acq: 8 Aug 2016 18:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.5	29.3
138	21.0	20.8	31.2

