

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092212.D
 Acq On : 5 Aug 2016 10:13
 Operator : UM/SJ
 Sample : H4288-25
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 05 17:17:06 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10416	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	47175	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	26451	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	60263	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	74902	5.00	ng	0.00
28) Perylene-d12	24.14	264	76098	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.69	112	11907	4.45	ng	0.00
5) Phenol-d6	7.35	99	10010	2.81	ng	0.00
7) Nitrobenzene-d5	9.34	82	13938	3.74	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	7880	9.17	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	31772	3.79	ng	0.00
24) Terphenyl-d14	20.19	244	49225	4.58	ng	-0.02

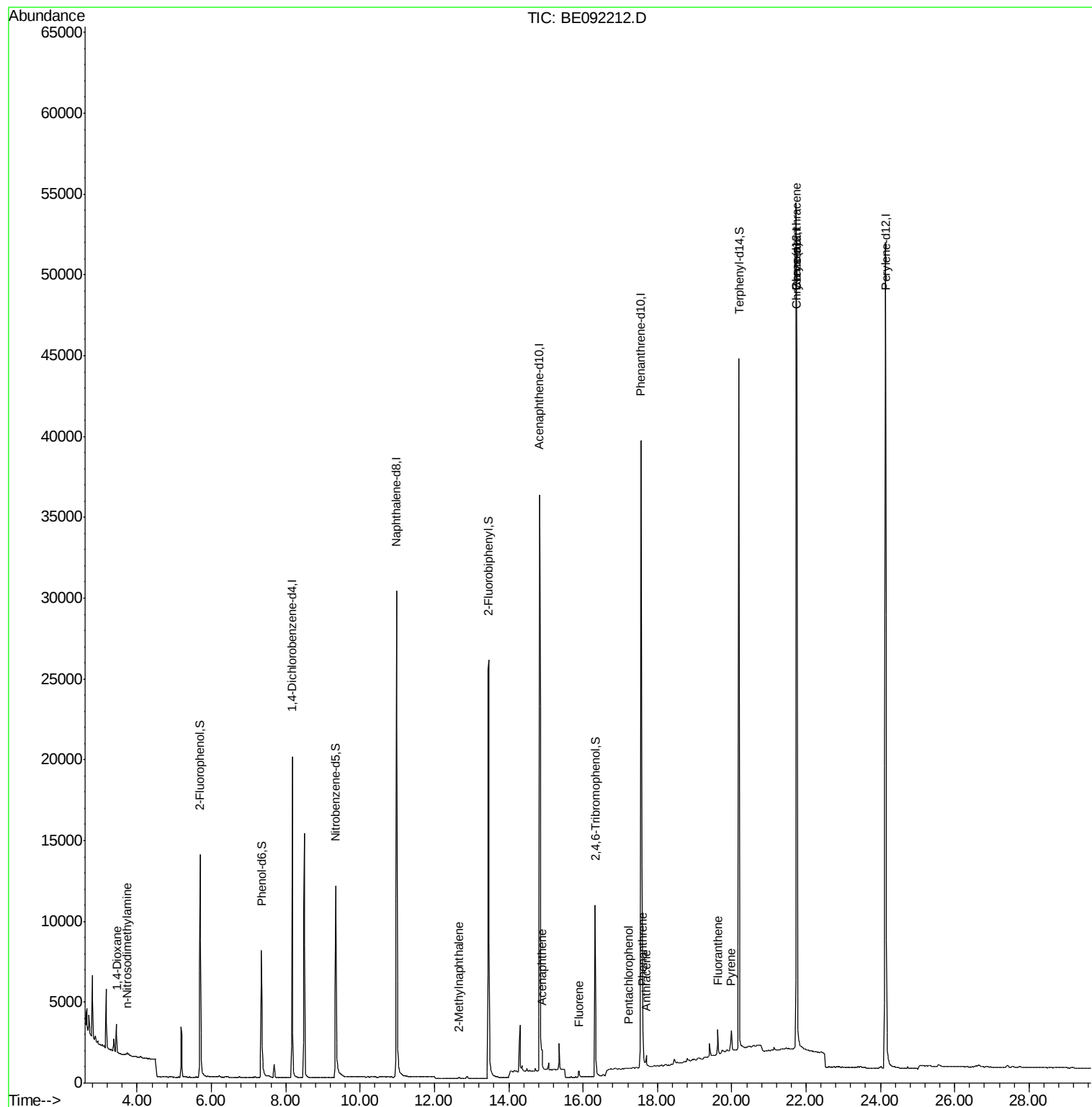
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.45	88	1064	0.75	ng	# 39
3) n-Nitrosodimethylamine	3.72	42	133	0.16	ng	# 1
9) 2-Methylnaphthalene	12.66	142	74	0.02	ng	# 55
14) Acenaphthene	14.90	154	240	0.03	ng	# 89
15) Fluorene	15.89	166	372	0.04	ng	# 95
18) Pentachlorophenol	17.24	266	15	0.21	ng	# 78
19) Phenanthrene	17.60	178	1769	0.07	ng	# 86
20) Anthracene	17.70	178	868	0.05	ng	# 95
21) Fluoranthene	19.63	202	2182	0.03	ng	# 81
23) Pyrene	19.99	202	1926	0.02	ng	# 91
25) Benzo(a)anthracene	21.73	228	1933	0.02	ng	# 40
26) Chrysene	21.73	228	1921	0.02	ng	# 43
30) Benzo(k)fluoranthene	23.45	252	72	Below Cal		# 1

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

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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: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

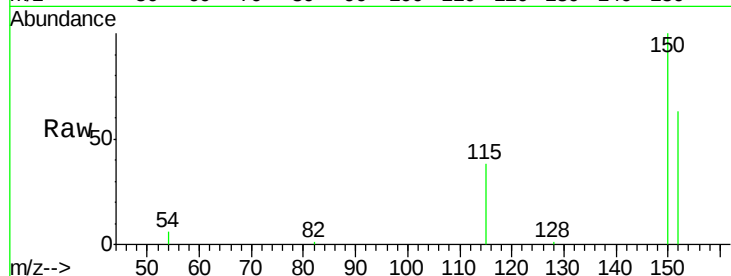
Tot Ion:152 Resp: 10416

Ion Ratio Lower Upper

152 100

150 158.1 106.0 159.0

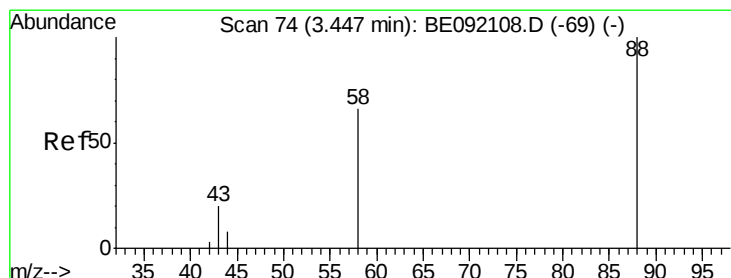
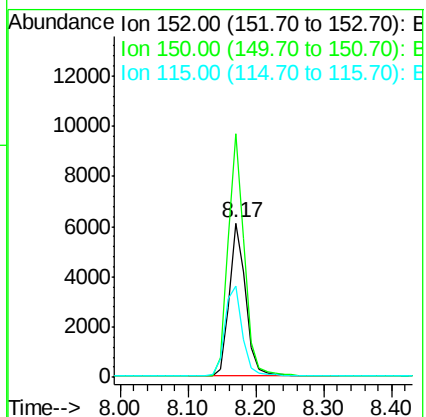
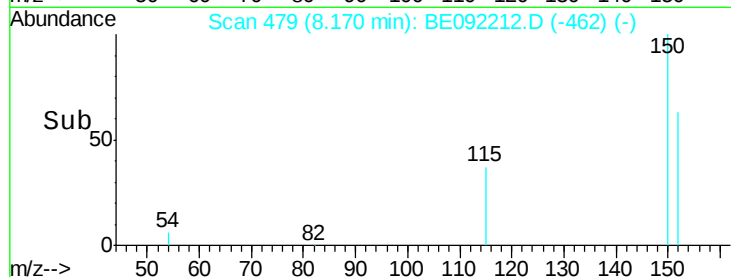
115 59.4 36.9 55.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.75 ng

RT: 3.45 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

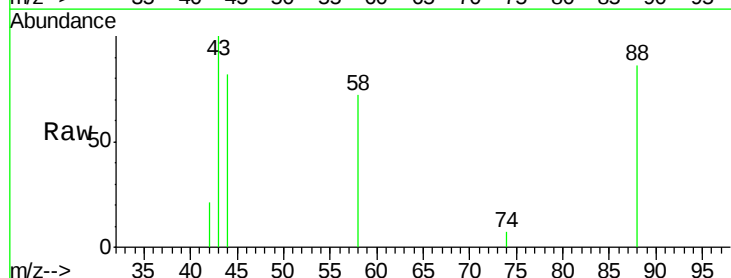
Tgt Ion: 88 Resp: 1064

Ion Ratio Lower Upper

88 100

58 94.4 62.1 93.1#

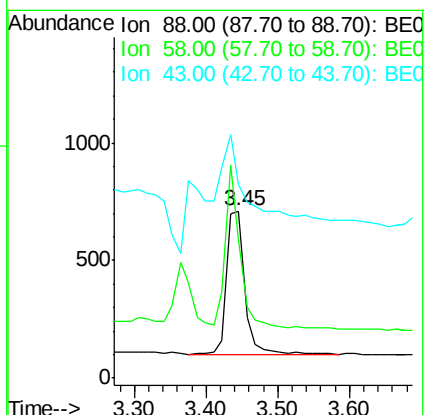
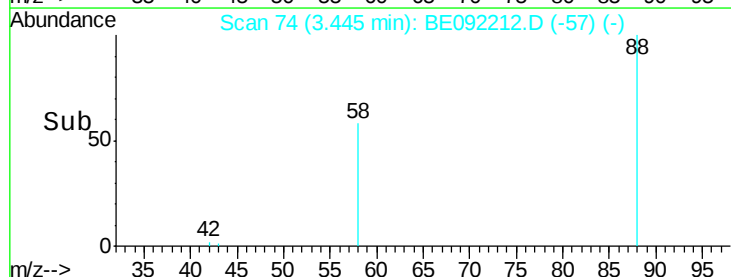
43 123.9 27.2 40.8#

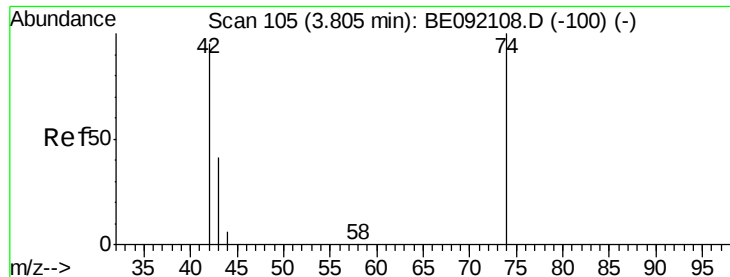


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



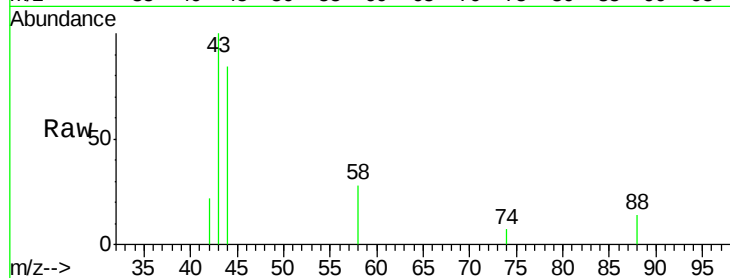


#3

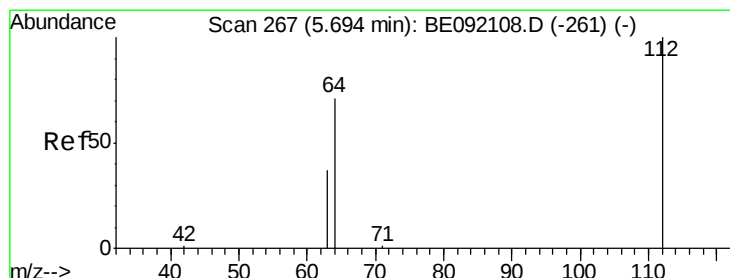
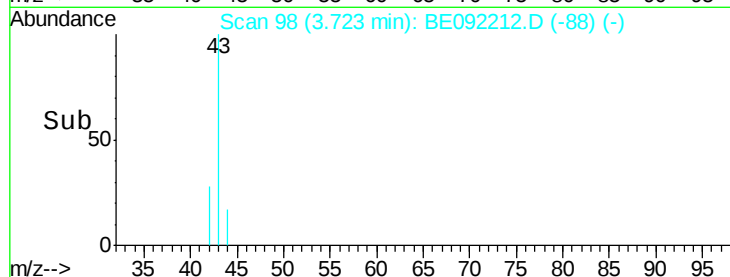
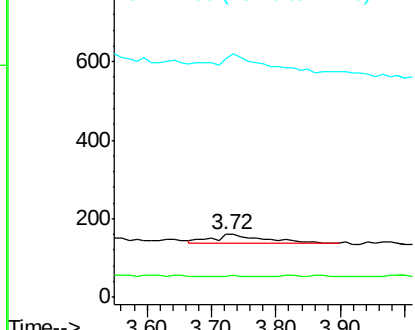
n-Nitrosodimethylamine
 Concen: 0.16 ng
 RT: 3.72 min Scan# 98
 Delta R.T. -0.08 min
 Lab File: BE092212.D
 Acq: 5 Aug 2016 10:13

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 133
 Ion Ratio Lower Upper
 42 100
 74 4.5 82.8 124.2#
 44 145.9 9.0 13.4#



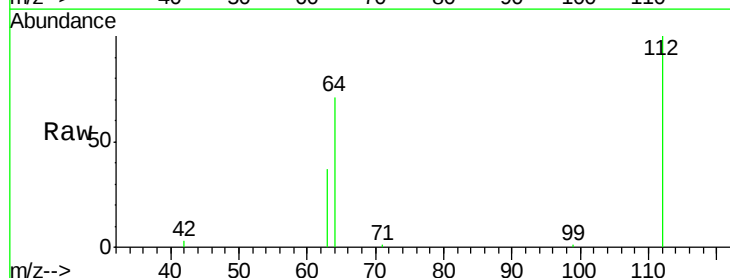
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



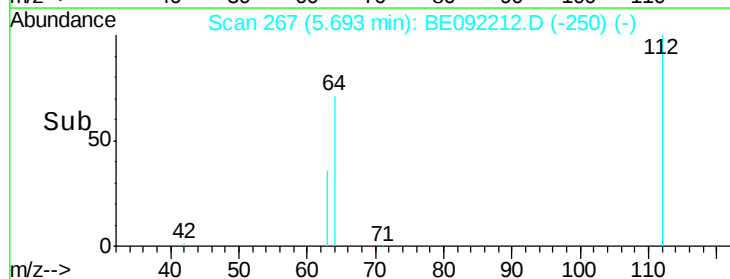
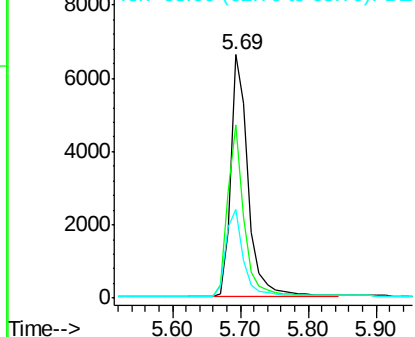
#4

2-Fluorophenol
 Concen: 4.45 ng
 RT: 5.69 min Scan# 267
 Delta R.T. -0.00 min
 Lab File: BE092212.D
 Acq: 5 Aug 2016 10:13

Tgt Ion: 112 Resp: 11907
 Ion Ratio Lower Upper
 112 100
 64 67.7 55.9 83.9
 63 36.6 31.1 46.7



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.81 ng

RT: 7.35 min Scan# 410

Delta R.T. -0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

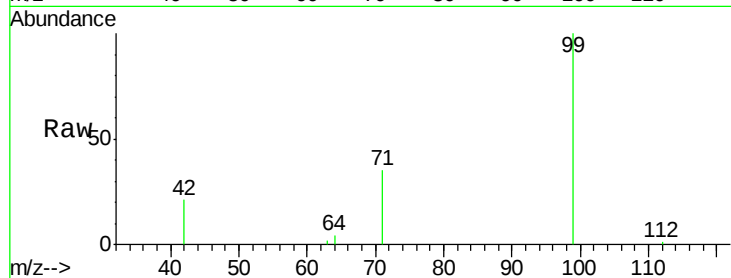
Tot Ion: 99 Resp: 10010

Ion Ratio Lower Upper

99 100

42 24.9 22.4 33.6

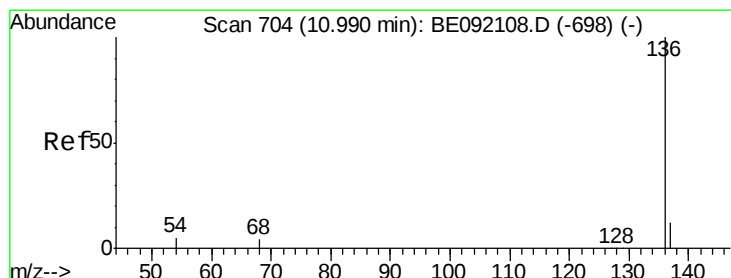
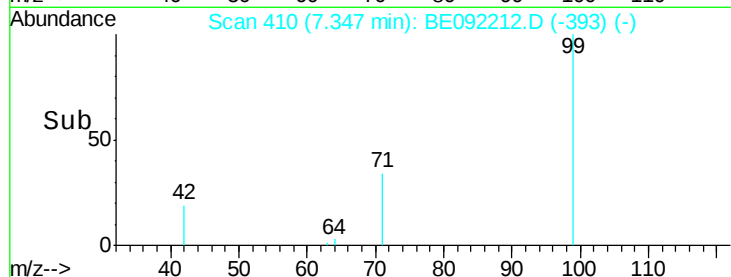
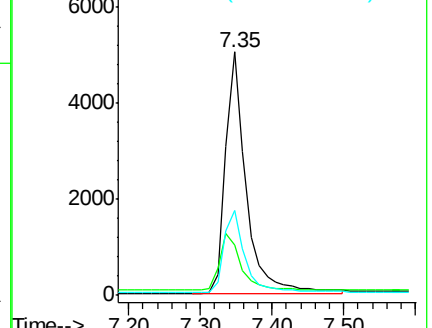
71 35.7 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Tgt Ion: 136 Resp: 47175

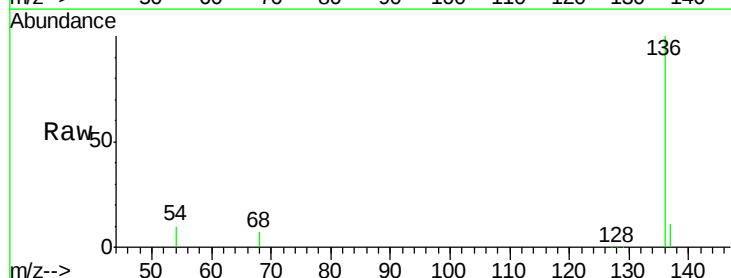
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 9.9 2.7 4.1#

68 7.2 2.2 3.4#

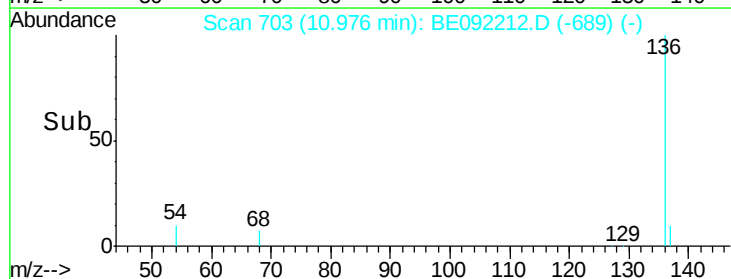
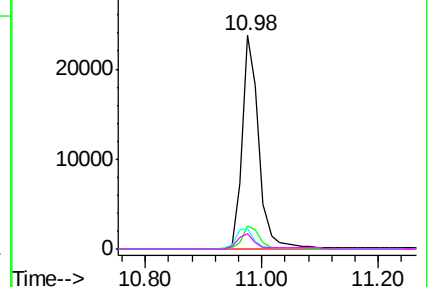


Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 3.74 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

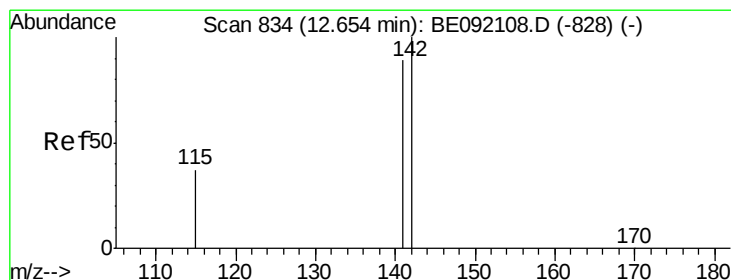
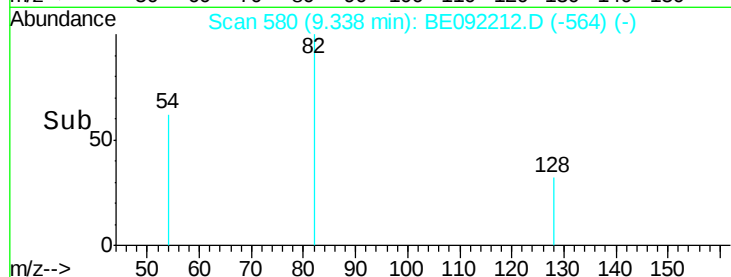
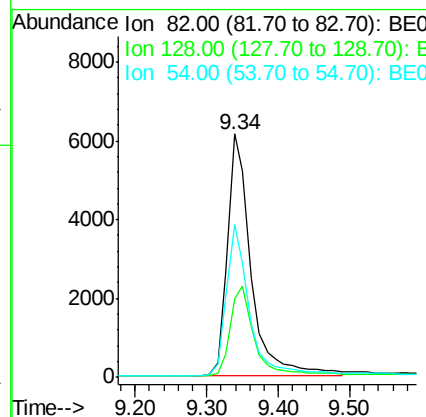
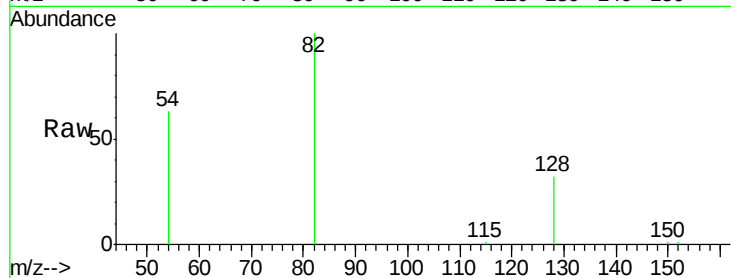
Tot Ion: 82 Resp: 13938

Ion Ratio Lower Upper

82 100

128 32.3 33.0 49.4#

54 62.6 42.6 63.8



#9

2-Methylnaphthalene

Concen: 0.02 ng

RT: 12.66 min Scan# 835

Delta R.T. 0.01 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

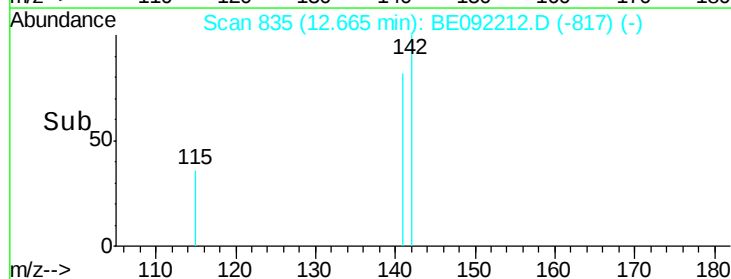
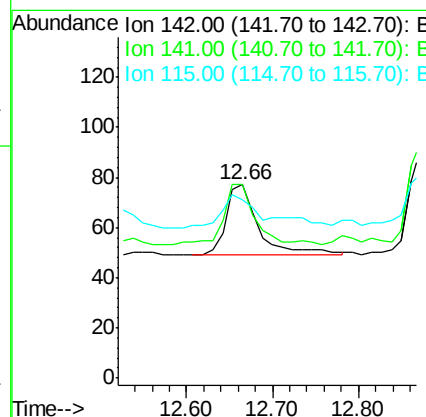
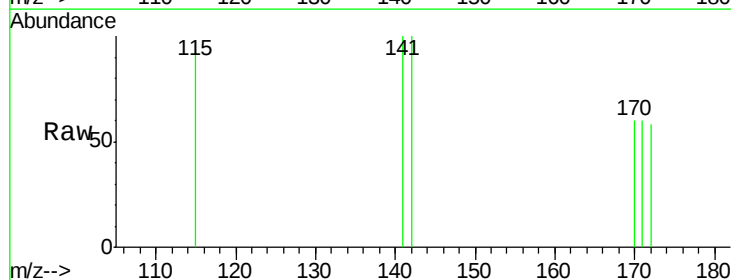
Tgt Ion: 142 Resp: 74

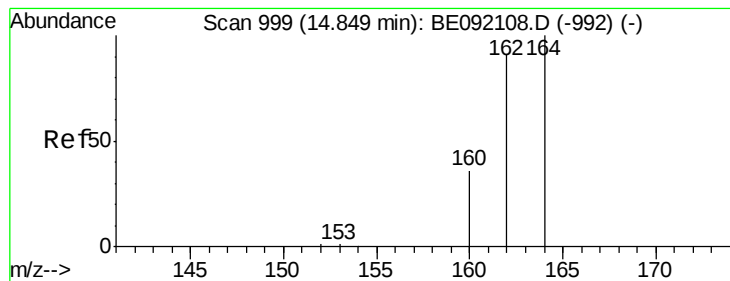
Ion Ratio Lower Upper

142 100

141 100.0 65.1 97.7#

115 92.2 27.0 40.4#





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

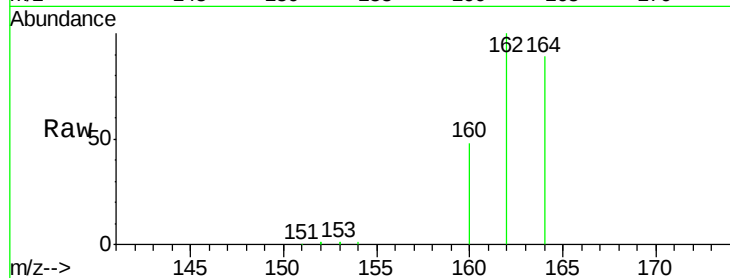
Tot Ion:164 Resp: 26451

Ion Ratio Lower Upper

164 100

162 112.9 69.5 104.3#

160 53.9 27.6 41.4#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

20000

15000

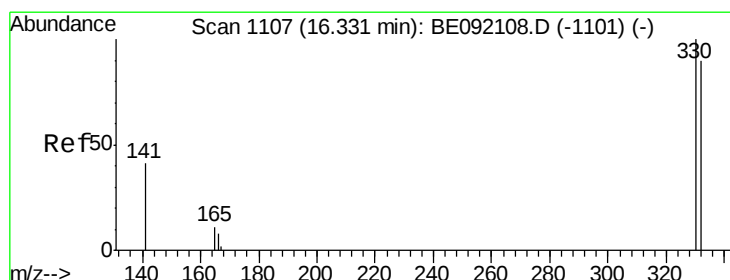
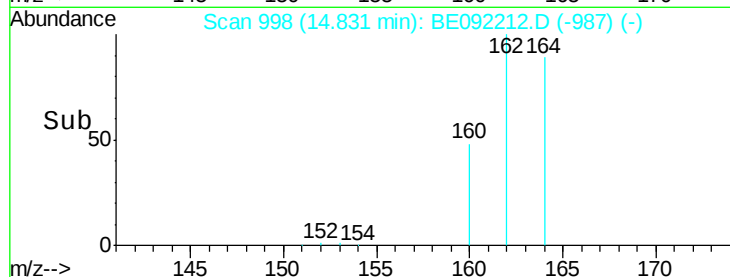
10000

5000

0

14.83

Time--> 14.60 14.80 15.00



#11

2,4,6-Tribromophenol

Concen: 9.17 ng

RT: 16.33 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

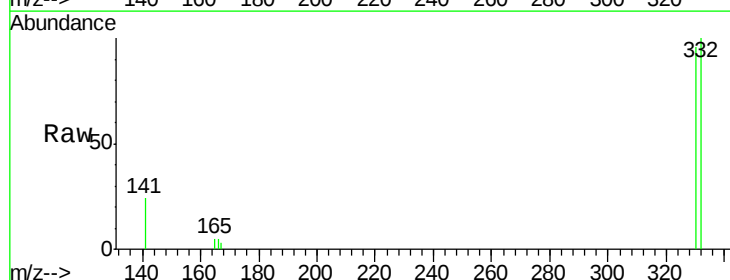
Tgt Ion:330 Resp: 7880

Ion Ratio Lower Upper

330 100

332 97.3 74.2 111.4

141 43.7 139.8 209.8#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

6000

5000

4000

3000

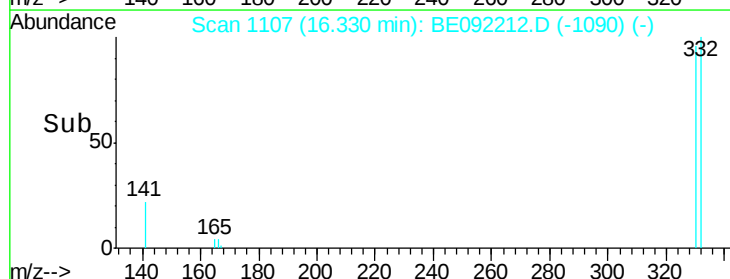
2000

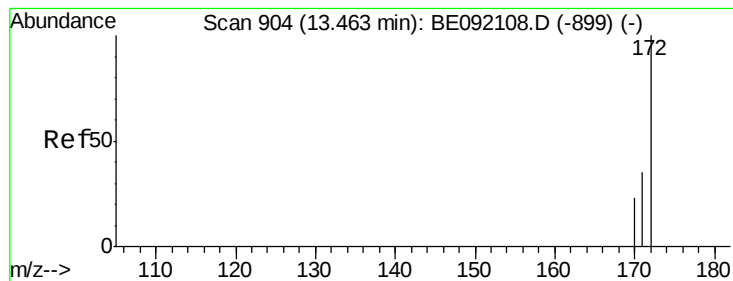
1000

0

16.33

Time--> 16.20 16.40

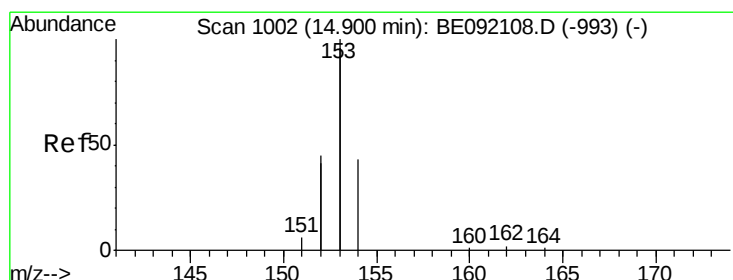
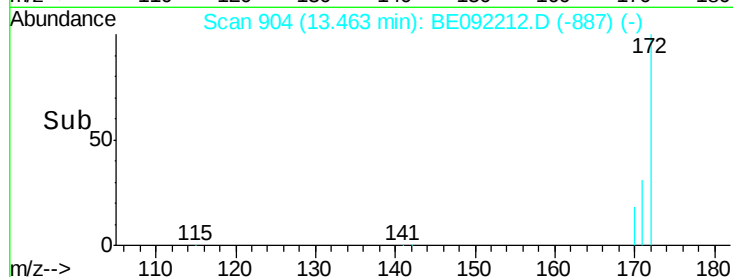
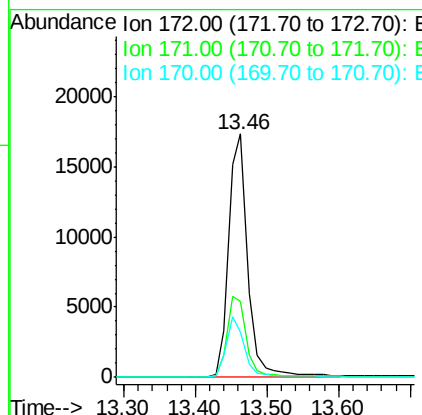
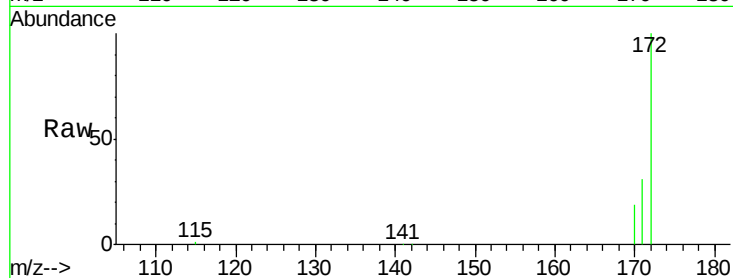




#12
2-Fluorobiphenyl
Concen: 3.79 ng
RT: 13.46 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

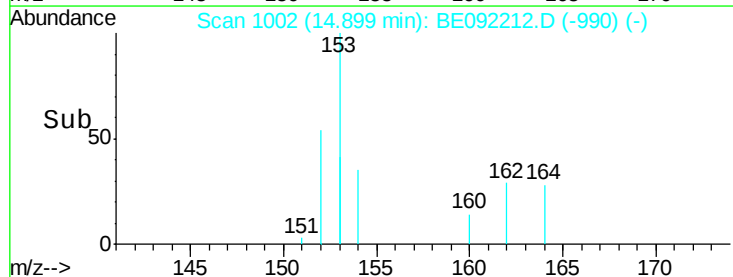
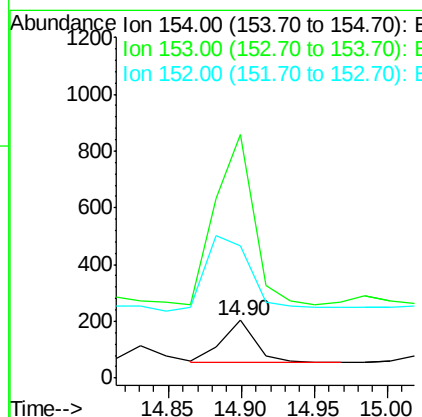
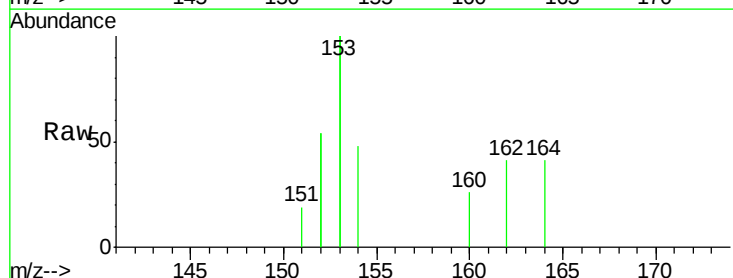
Instrument :
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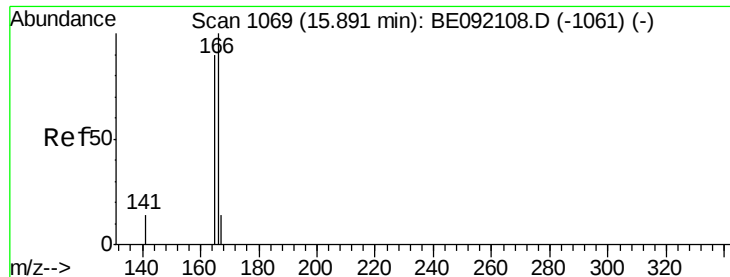
Tot Ion:172 Resp: 31772
Ion Ratio Lower Upper
172 100
171 31.1 30.3 45.5
170 18.5 21.6 32.4#



#14
Acenaphthene
Concen: 0.03 ng
RT: 14.90 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

Tgt Ion:154 Resp: 240
Ion Ratio Lower Upper
154 100
153 457.9 345.1 517.7
152 241.7 0.0 0.0#





#15

Fluorene

Concen: 0.04 ng

RT: 15.89 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

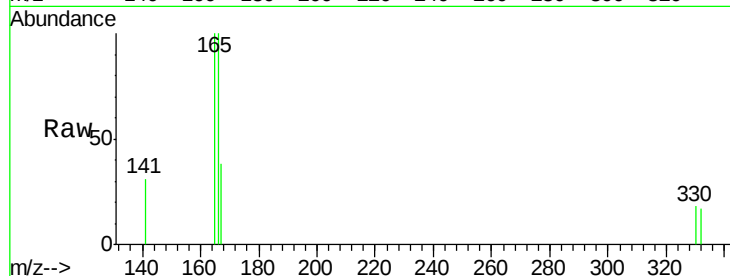
Tot Ion:166 Resp: 372

Ion Ratio Lower Upper

166 100

165 103.0 78.6 118.0

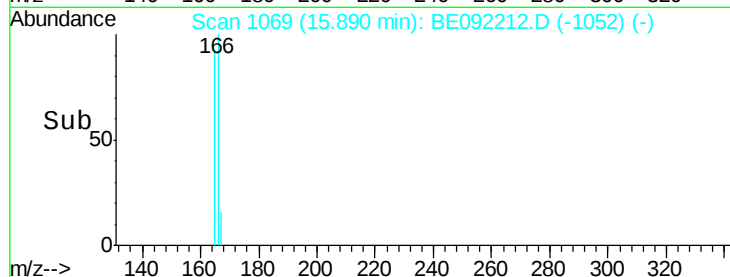
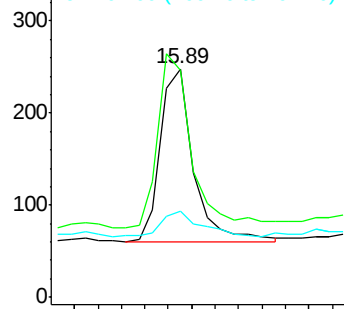
167 18.3 11.1 16.7#



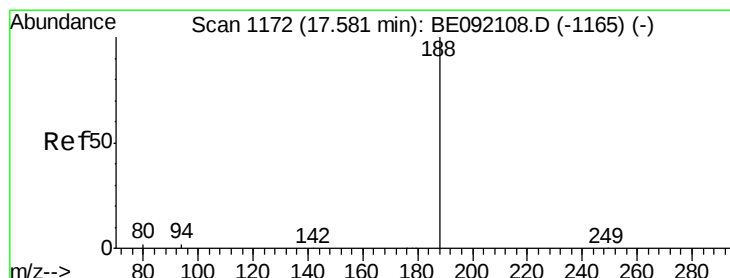
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

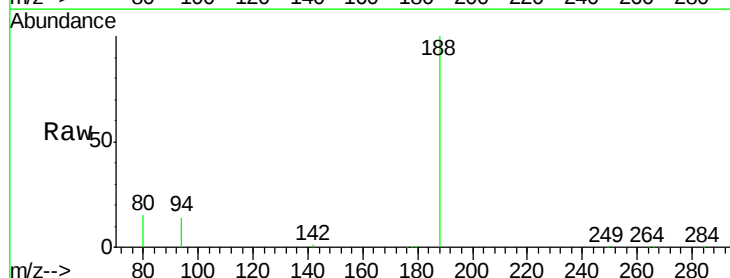
Tgt Ion:188 Resp: 60263

Ion Ratio Lower Upper

188 100

94 14.2 3.9 5.9#

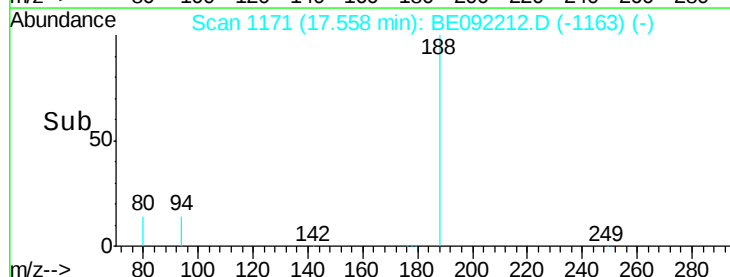
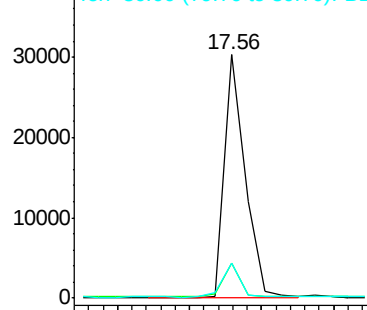
80 14.5 3.4 5.0#



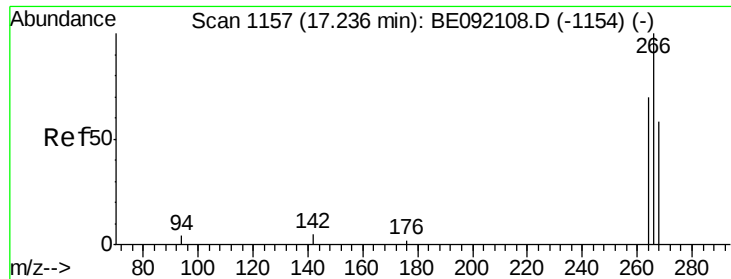
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->



#18

Pentachlorophenol

Concen: 0.21 ng

RT: 17.24 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

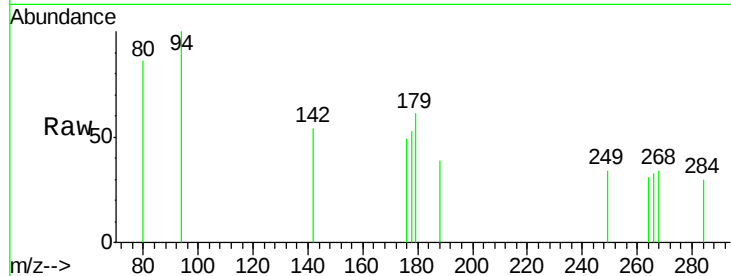
Tot Ion:266 Resp: 15

Ion Ratio Lower Upper

266 100

268 102.0 62.7 94.1#

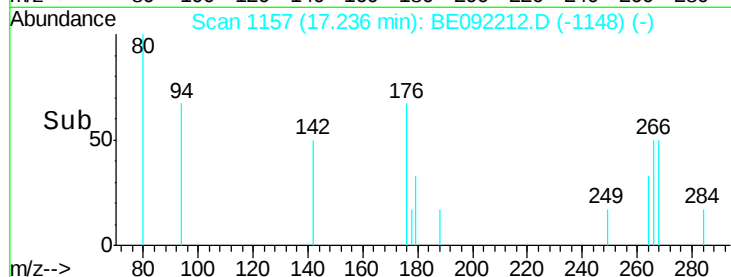
264 94.0 63.5 95.3



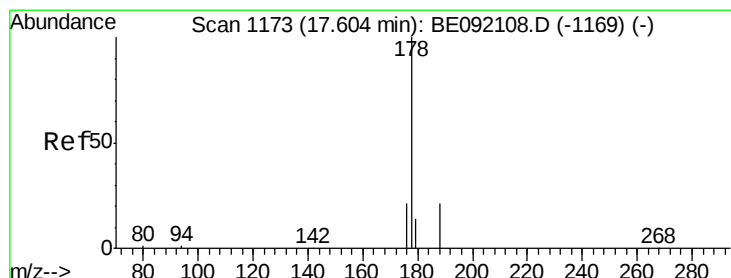
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time--> 17.10 17.20 17.30



#19

Phenanthrene

Concen: 0.07 ng

RT: 17.60 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

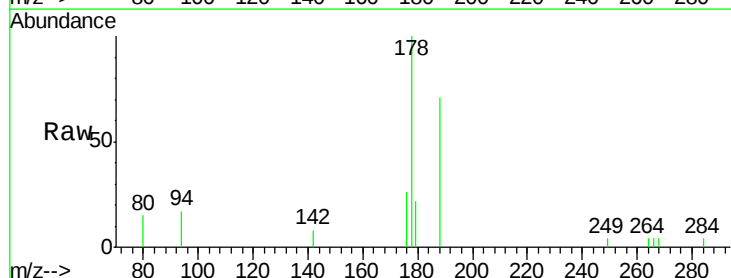
Tgt Ion:178 Resp: 1769

Ion Ratio Lower Upper

178 100

176 27.0 15.4 23.0#

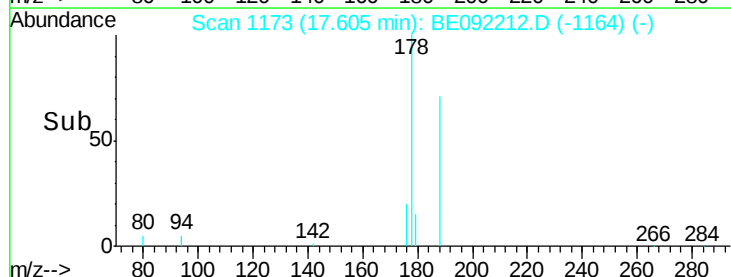
179 20.2 12.7 19.1#



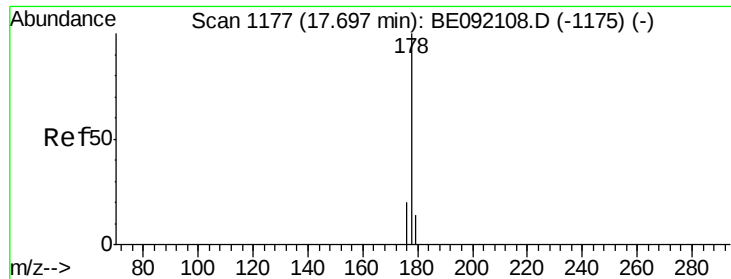
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.40 17.50 17.60 17.70



#20

Anthracene

Concen: 0.05 ng

RT: 17.70 min Scan# 1177

Delta R.T. 0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampleId :

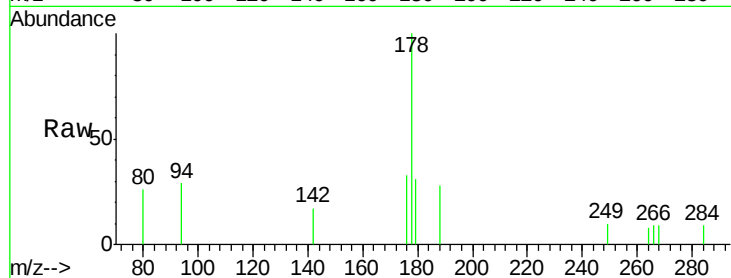
Tot Ion:178 Resp: 868

Ion Ratio Lower Upper

178 100

176 21.0 15.2 22.8

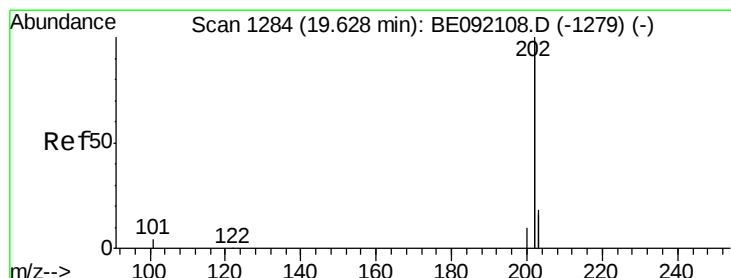
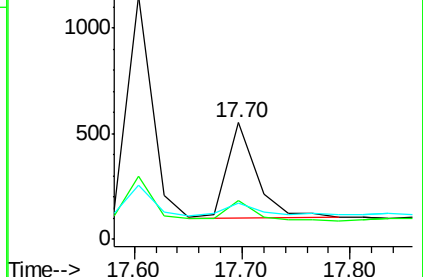
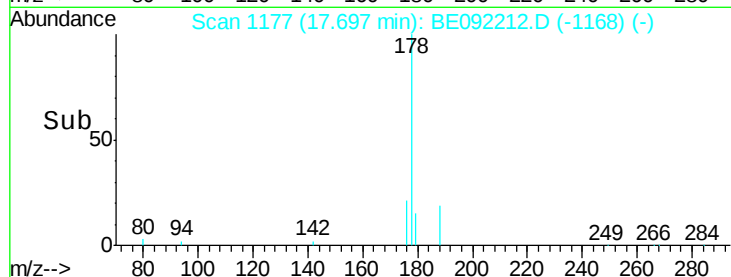
179 18.0 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#21

Fluoranthene

Concen: 0.03 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

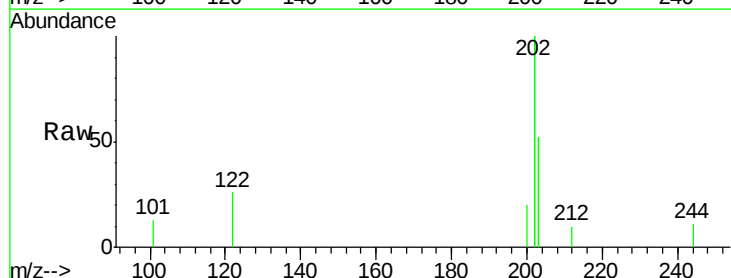
Tgt Ion:202 Resp: 2182

Ion Ratio Lower Upper

202 100

101 4.3 2.2 3.2#

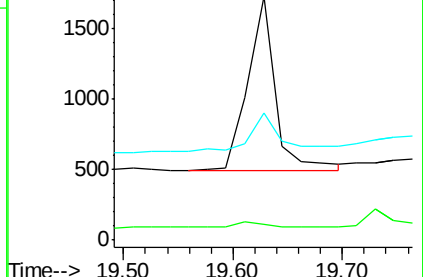
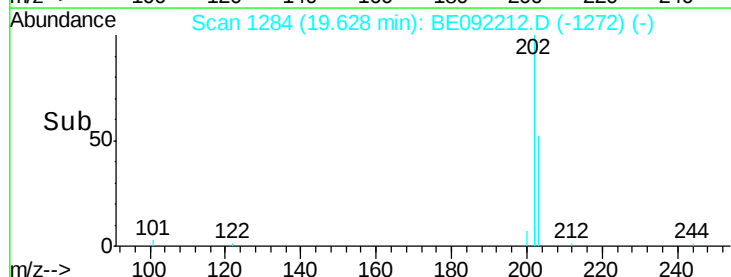
203 25.1 13.0 19.4#

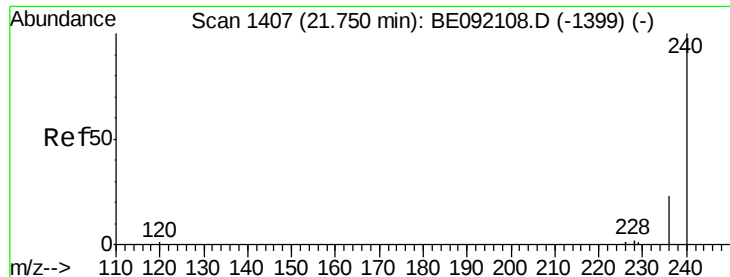


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

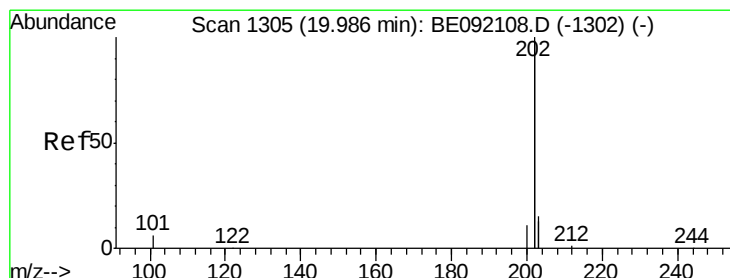
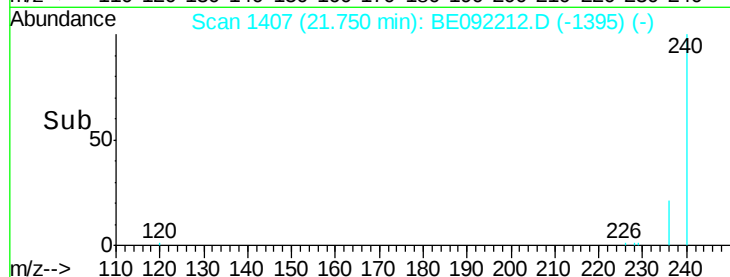
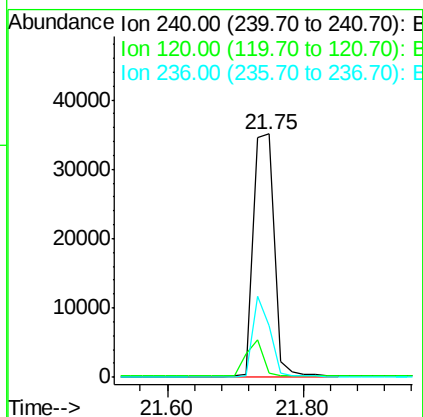
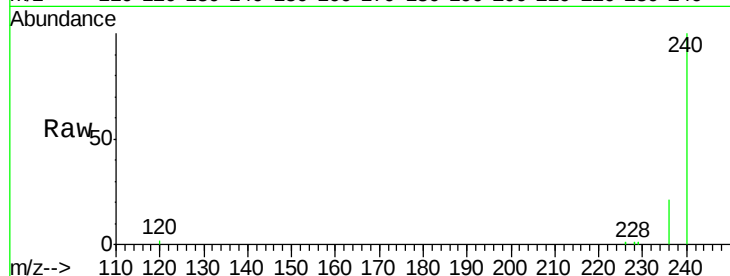




#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1407
Delta R.T. -0.00 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

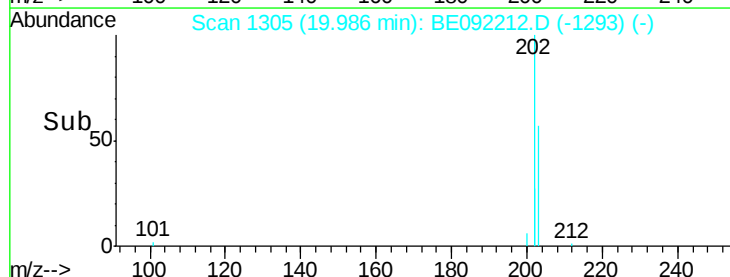
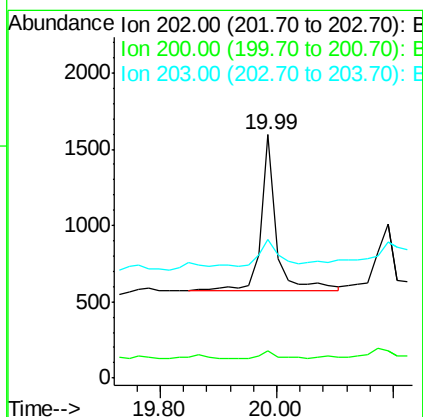
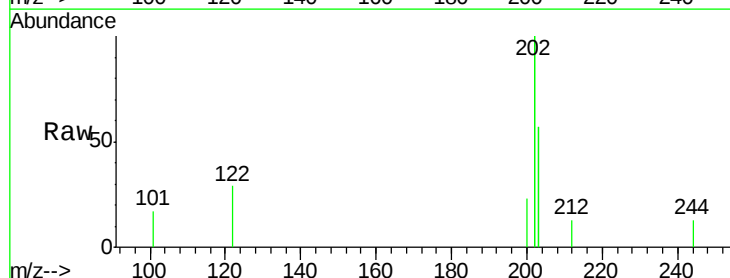
Instrument :
BNA_E
ClientSampleId :

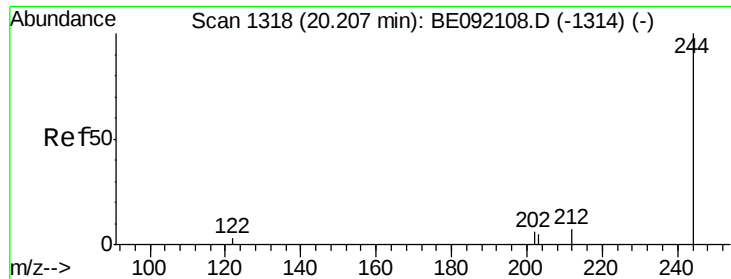
Tot Ion:240 Resp: 74902
Ion Ratio Lower Upper
240 100
120 1.6 0.6 1.0#
236 21.5 18.2 27.4



#23
Pyrene
Concen: 0.02 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

Tgt Ion:202 Resp: 1926
Ion Ratio Lower Upper
202 100
200 6.6 4.4 6.6
203 21.1 13.4 20.0#





#24

Terphenyl-d14

Concen: 4.58 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

Instrument :

BNA_E

ClientSampled :

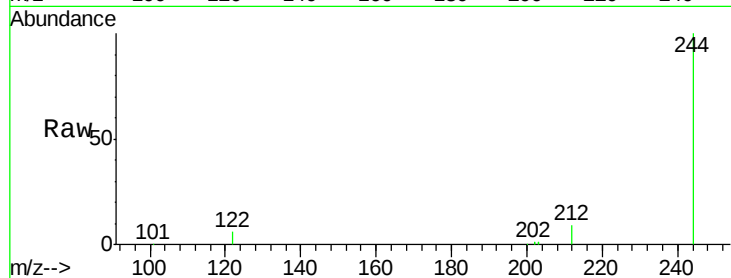
Tot Ion:244 Resp: 49225

Ion Ratio Lower Upper

244 100

212 8.5 9.1 13.7#

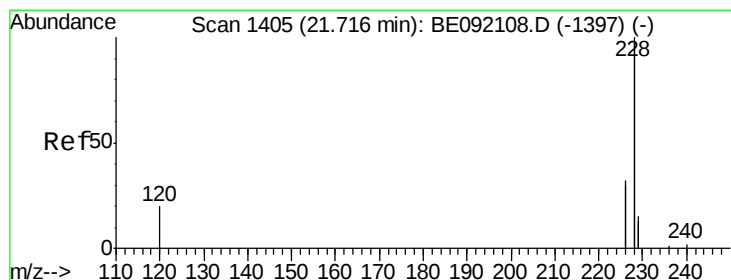
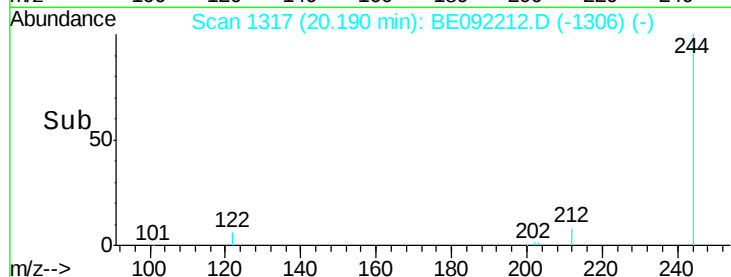
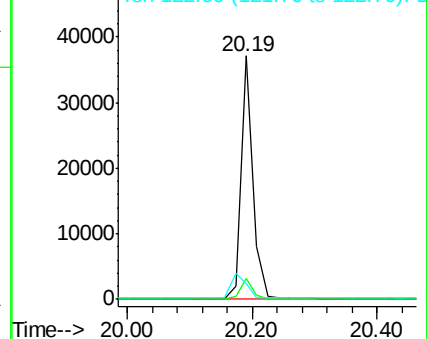
122 6.2 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.73 min Scan# 1406

Delta R.T. 0.02 min

Lab File: BE092212.D

Acq: 5 Aug 2016 10:13

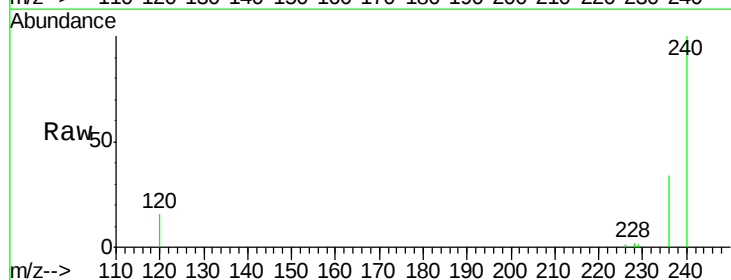
Tgt Ion:228 Resp: 1933

Ion Ratio Lower Upper

228 100

226 44.4 22.1 33.1#

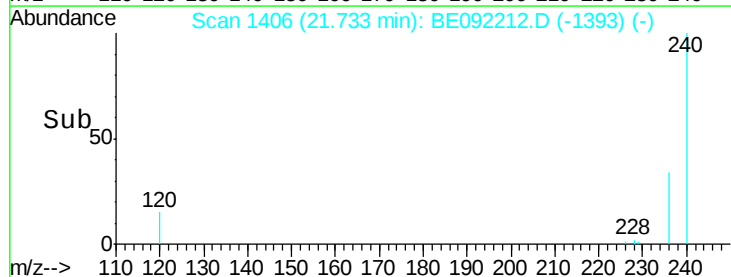
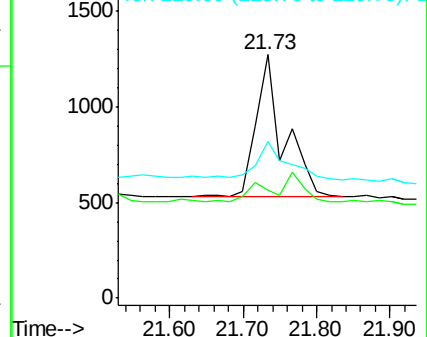
229 64.2 15.1 22.7#

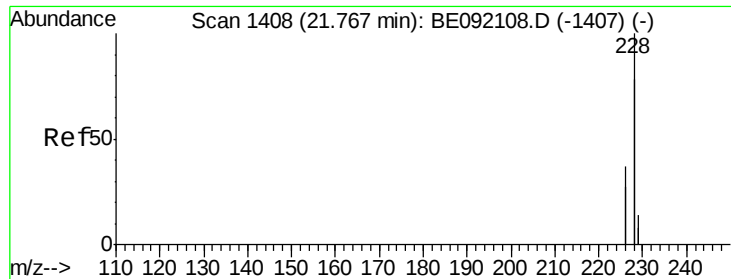


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

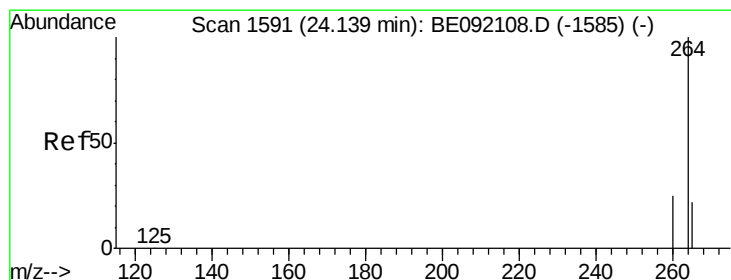
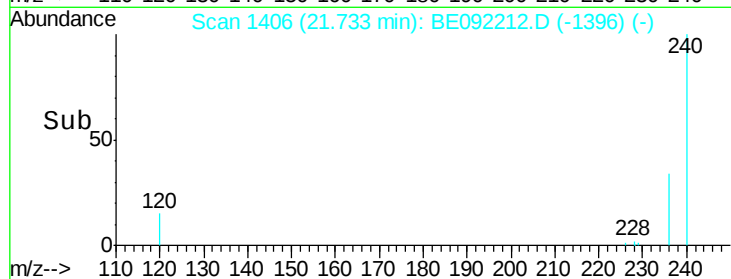
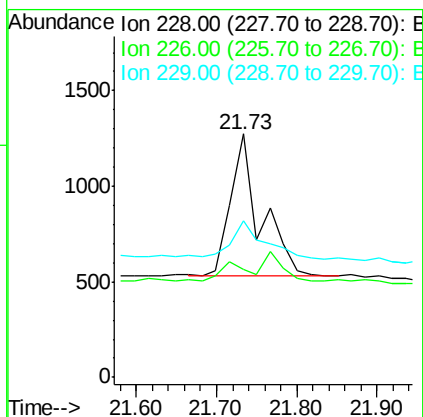
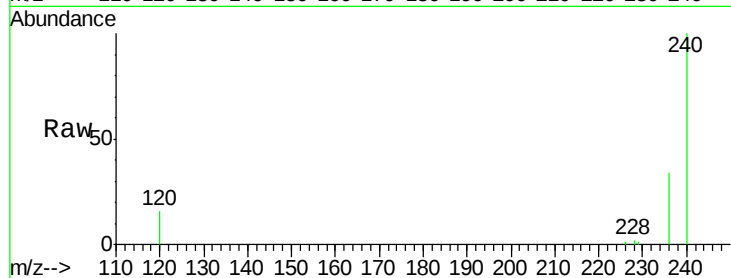




#26
Chrysene
Concen: 0.02 ng
RT: 21.73 min Scan# 1406
Delta R.T. -0.03 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

Instrument :
BNA_E
ClientSampled :

Tot Ion:228 Resp: 1921
Ion Ratio Lower Upper
228 100
226 44.4 22.3 33.5#
229 64.2 16.9 25.3#



#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092212.D
Acq: 5 Aug 2016 10:13

Tgt Ion:264 Resp: 76098
Ion Ratio Lower Upper
264 100
260 24.3 20.8 31.2
265 23.4 16.6 25.0

