

Data Path : Z:\HPCHEM1\BNA E\Data\BE020516\
 Data File : BE091401.D
 Acq On : 5 Feb 2016 15:50
 Operator : UM/IZ
 Sample : H1339-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 05 16:46:35 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

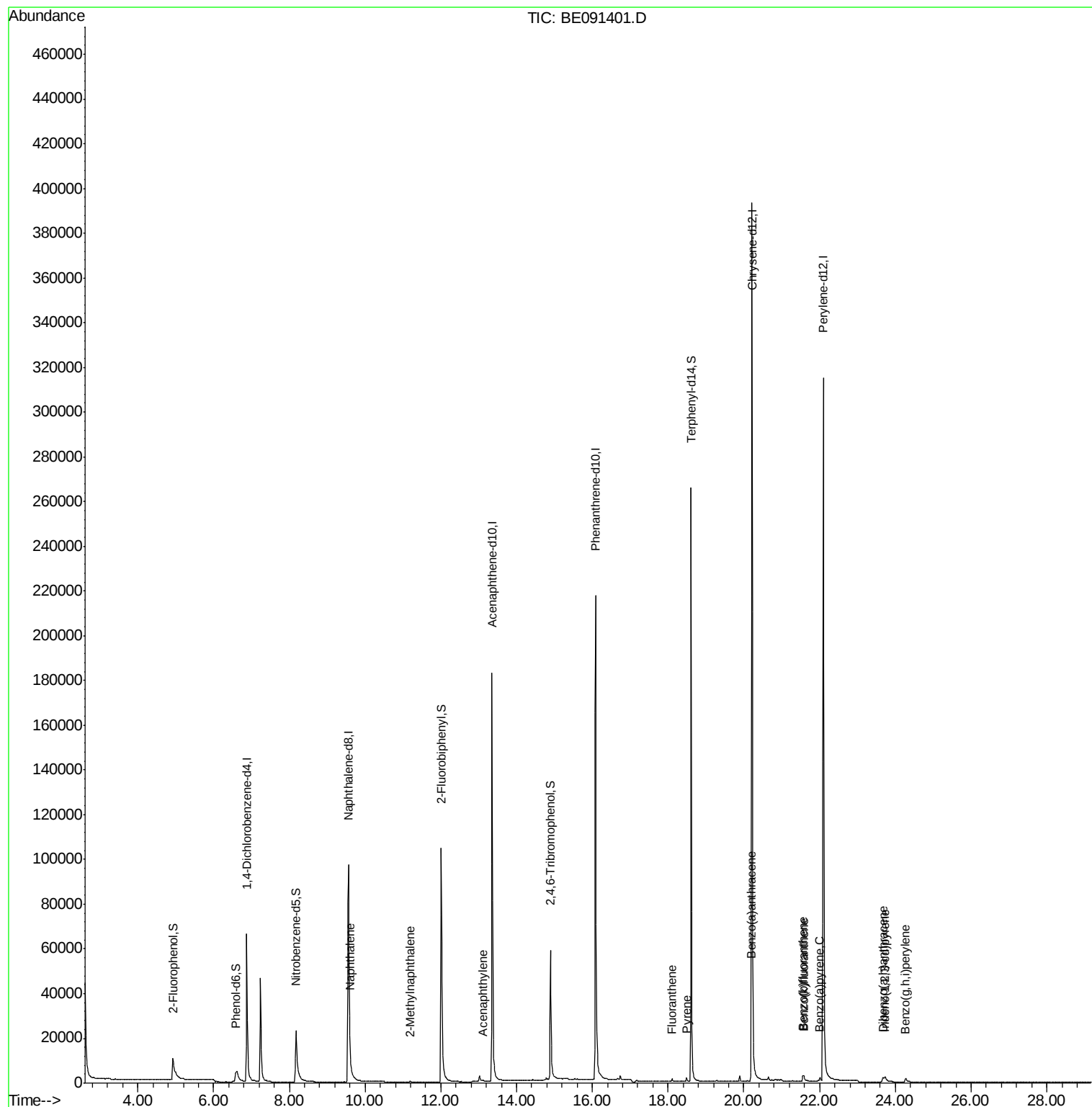
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	40443	5.00	ng	0.00
4) Naphthalene-d8	9.56	136	189950	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	124985	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	323113	5.00	ng	0.00
18) Chrysene-d12	20.22	240	385026	5.00	ng	0.00
24) Perylene-d12	22.10	264	370696	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	18569	2.10	ng	-0.02
3) Phenol-d6	6.58	99	13692	1.19	ng	0.02
5) Nitrobenzene-d5	8.17	82	41309	3.38	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	33810	5.63	ng	-0.01
10) 2-Fluorobiphenyl	12.01	172	145036	4.46	ng	0.00
20) Terphenyl-d14	18.61	244	290407	5.10	ng	0.00
Target Compounds						
6) Naphthalene	9.60	128	1960	0.05	ng	# 83
7) 2-Methylnaphthalene	11.18	142	683	0.15	ng	# 92
11) Acenaphthylene	13.12	152	106	0.18	ng	# 1
17) Fluoranthene	18.10	202	1781	0.14	ng	95
19) Pyrene	18.48	202	1823	0.02	ng	95
21) Benzo(a)anthracene	20.19	228	3156	0.21	ng	96
22) Chrysene	20.25	228	3194	Below Cal		97
23) Indeno(1,2,3-cd)pyrene	23.73	276	4077	0.21	ng	96
25) Benzo(b)fluoranthene	21.56	252	2606	0.18	ng	# 81
26) Benzo(k)fluoranthene	21.58	252	3335	0.05	ng	# 84
27) Benzo(a)pyrene	22.01	252	2311	0.20	ng	# 70
28) Dibenzo(a,h)anthracene	23.68	278	4674	0.30	ng	# 92
29) Benzo(a,h,i)perylene	24.27	276	3799	0.18	ng	# 83

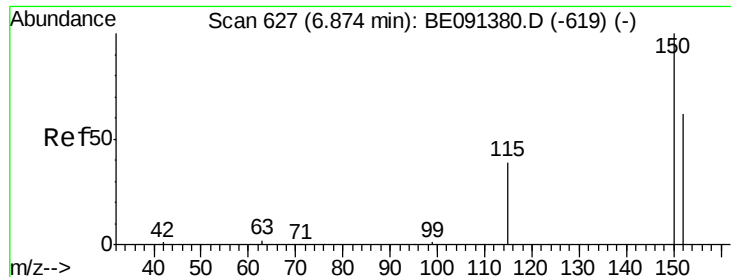
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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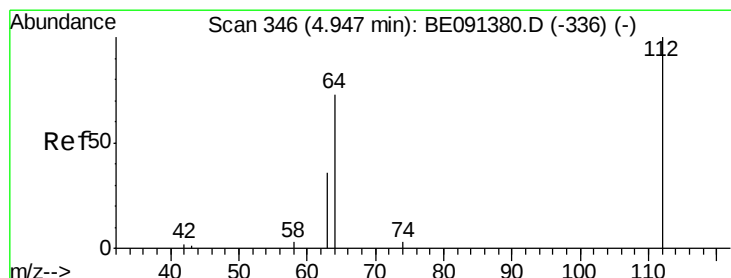
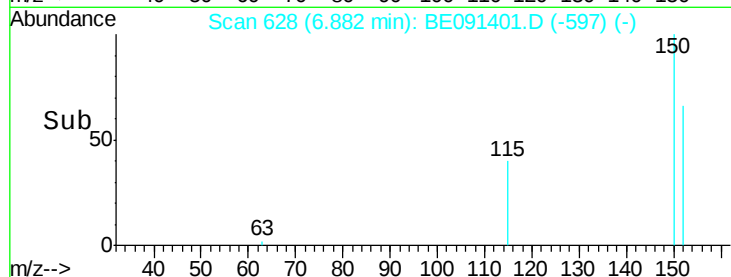
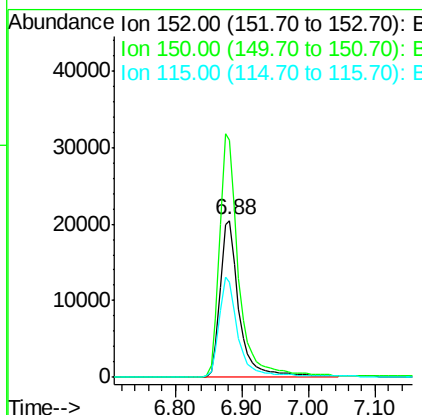
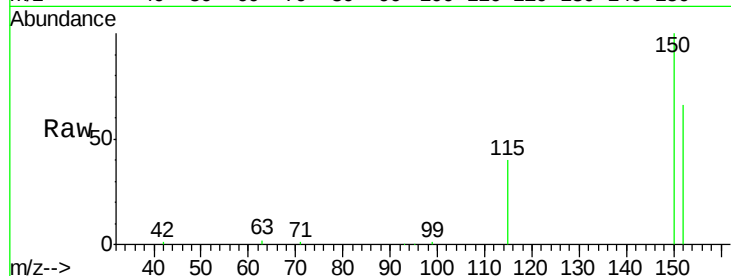


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.88 min Scan# 628
Delta R.T. 0.01 min
Lab File: BE091401.D
Acq: 5 Feb 2016 15:50

Instrument :
BNA_E
ClientSampleId :

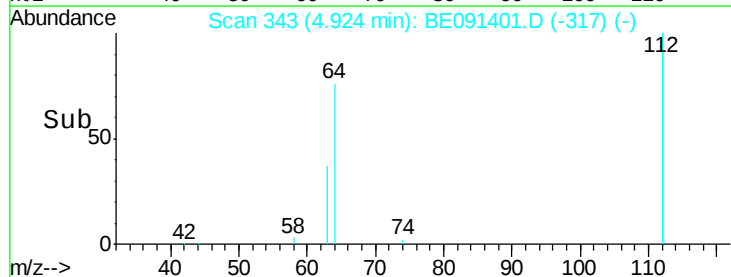
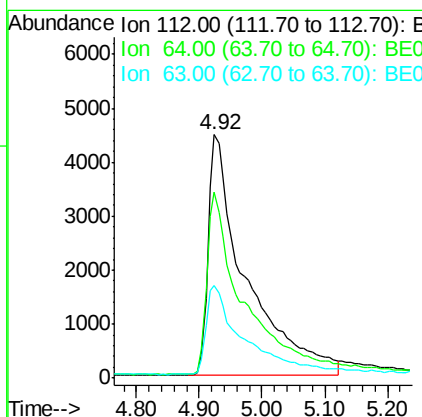
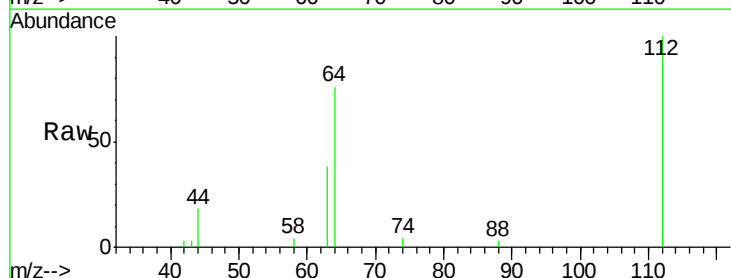
Tot Ion:152 Resp: 40443
Ion Ratio Lower Upper
152 100
150 151.0 128.9 193.3
115 60.6 50.9 76.3

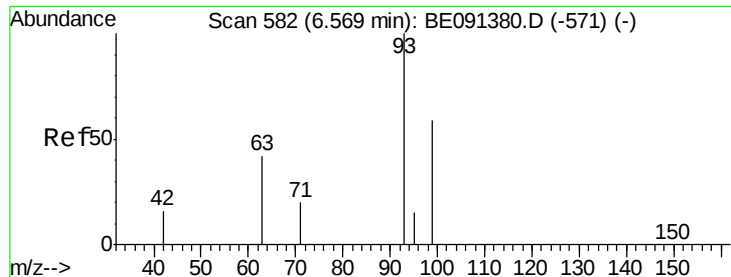


#2

2-Fluorophenol
Concen: 2.10 ng
RT: 4.92 min Scan# 343
Delta R.T. -0.02 min
Lab File: BE091401.D
Acq: 5 Feb 2016 15:50

Tgt Ion:112 Resp: 18569
Ion Ratio Lower Upper
112 100
64 74.6 60.5 90.7
63 37.7 29.8 44.8





#3

Phenol-d6

Concen: 1.19 ng

RT: 6.58 min Scan# 584

Delta R.T. 0.02 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

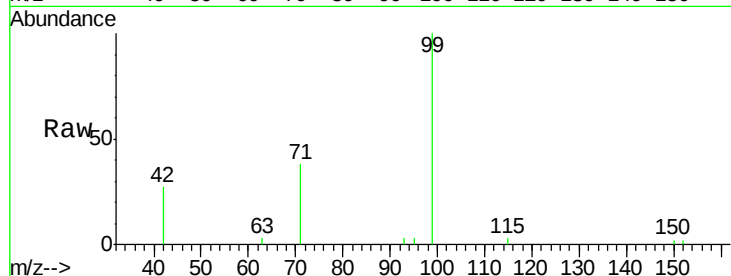
Tot Ion: 99 Resp: 13692

Ion Ratio Lower Upper

99 100

42 0.0 13.3 19.9#

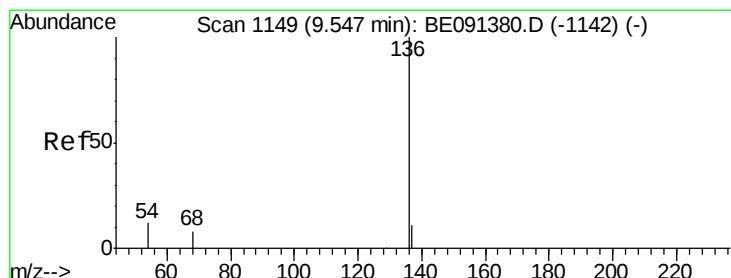
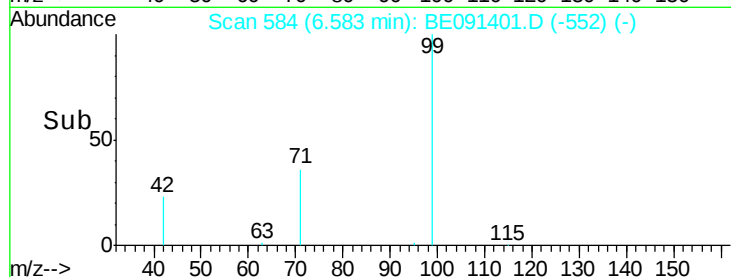
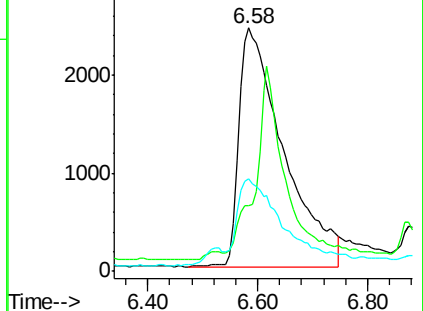
71 30.9 25.6 38.4



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.56 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Tgt Ion: 136 Resp: 189950

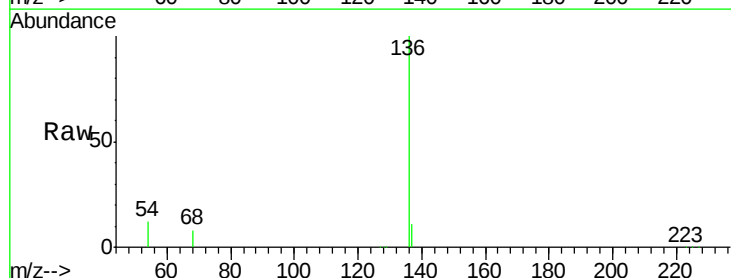
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 11.9 9.3 13.9

68 8.4 6.7 10.1

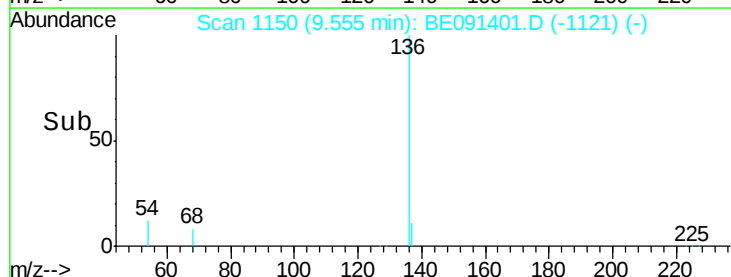
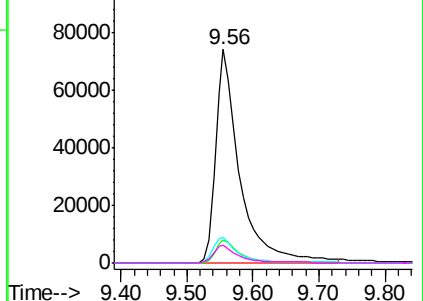


Abundance Ion 136.00 (135.70 to 136.70): E

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





#5

Nitrobenzene-d5

Concen: 3.38 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

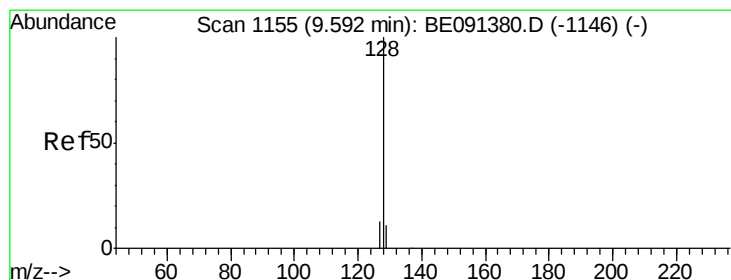
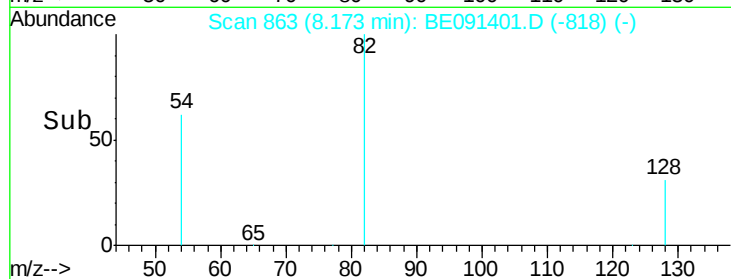
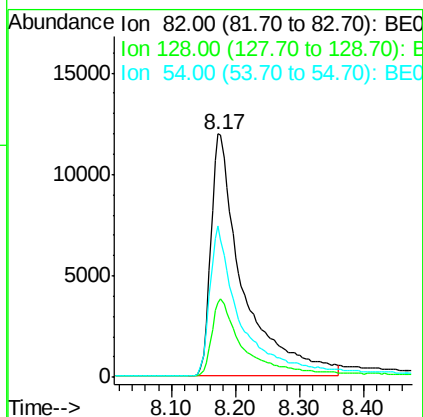
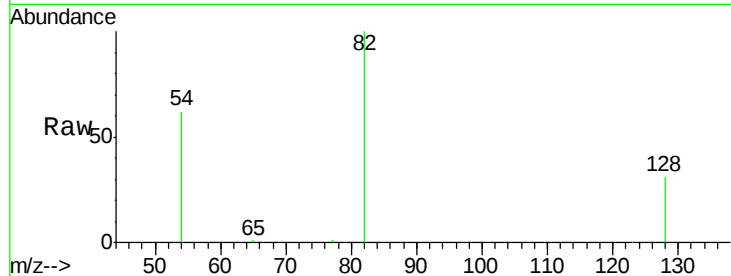
Tot Ion: 82 Resp: 41309

Ion Ratio Lower Upper

82 100

128 30.9 25.0 37.4

54 62.0 48.1 72.1



#6

Naphthalene

Concen: 0.05 ng

RT: 9.60 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

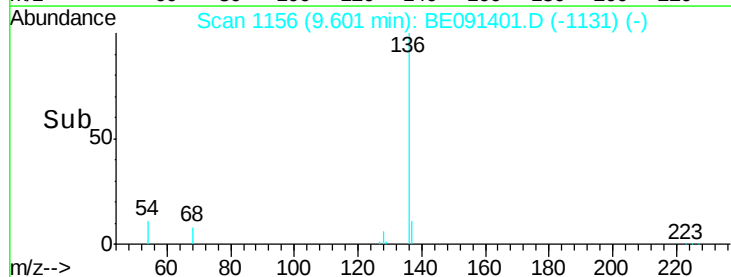
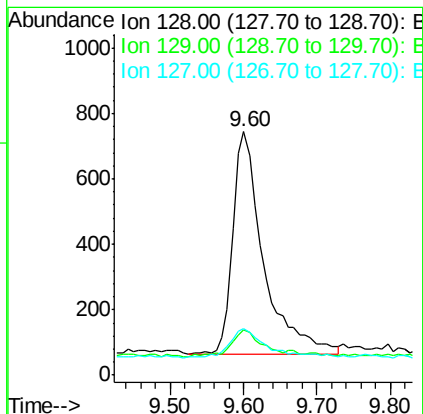
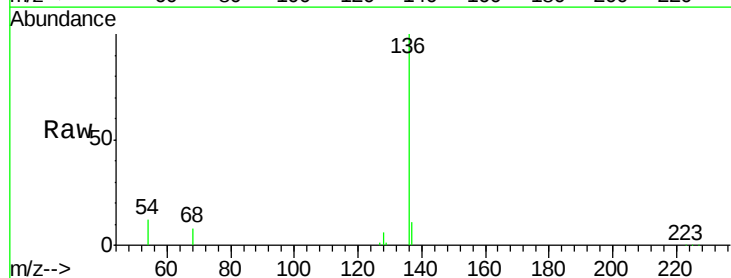
Tgt Ion: 128 Resp: 1960

Ion Ratio Lower Upper

128 100

129 18.4 9.1 13.7#

127 19.2 10.5 15.7#





#7

2-Methylnaphthalene

Concen: 0.15 ng

RT: 11.18 min Scan# 1421

Delta R.T. 0.05 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

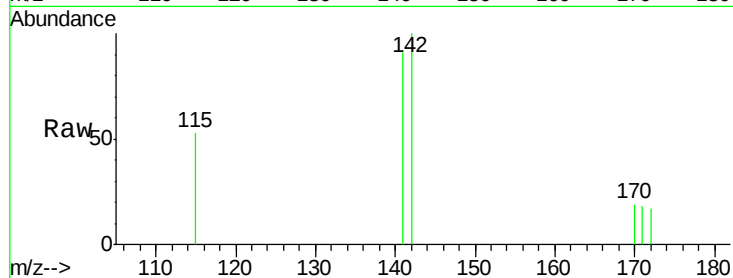
Tot Ion:142 Resp: 683

Ion Ratio Lower Upper

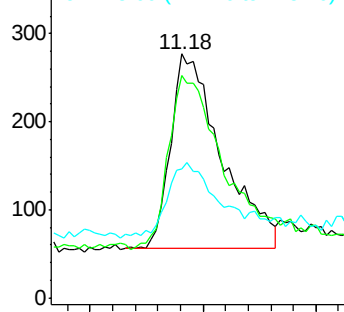
142 100

141 91.3 72.3 108.5

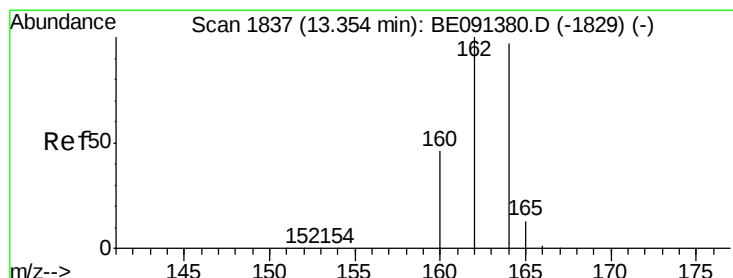
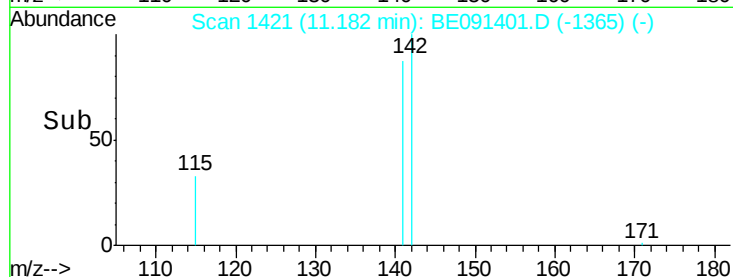
115 52.7 30.5 45.7#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



Time-->



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1837

Delta R.T. -0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

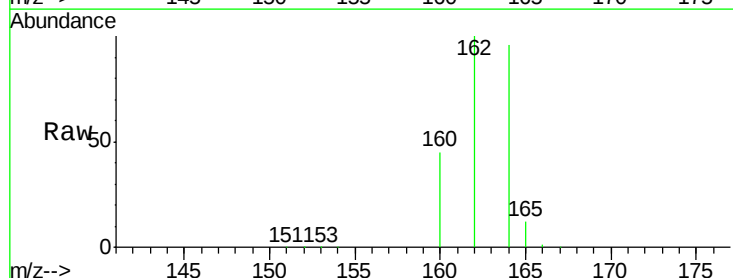
Tgt Ion:164 Resp: 124985

Ion Ratio Lower Upper

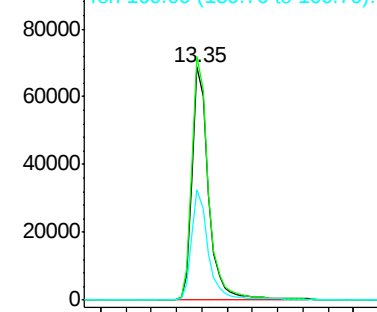
164 100

162 104.5 82.2 123.2

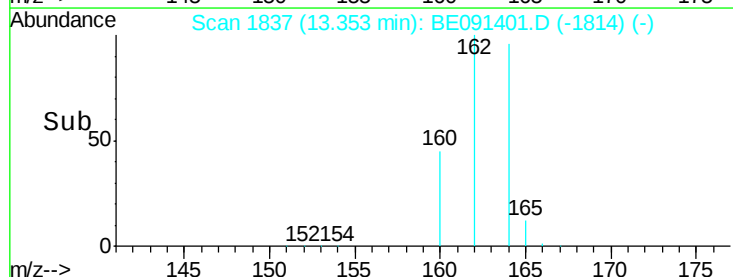
160 47.3 37.8 56.8



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



Time-->





#9

2,4,6-Tribromophenol

Concen: 5.63 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

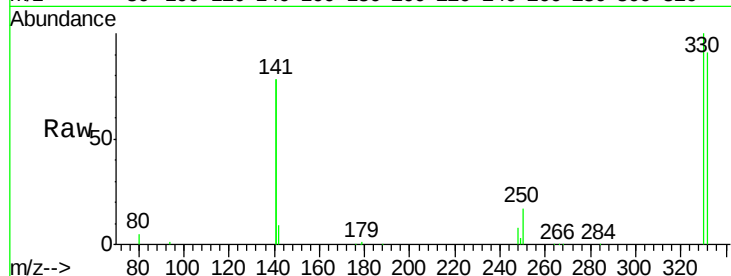
Tot Ion:330 Resp: 33810

Ion Ratio Lower Upper

330 100

332 96.7 78.8 118.2

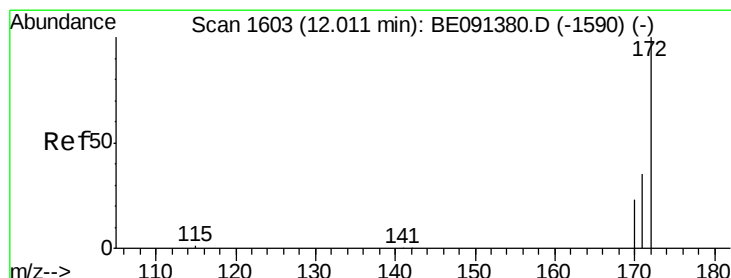
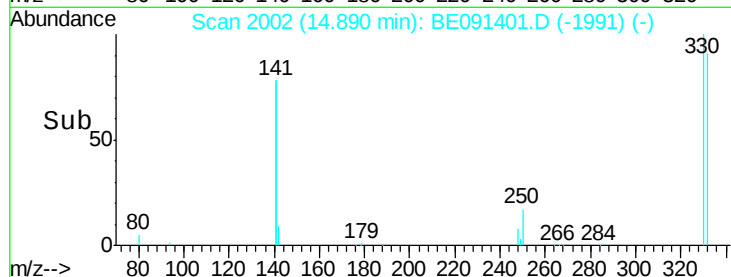
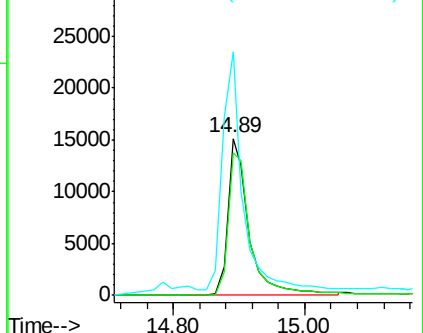
141 143.3 105.1 157.7



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



#10

2-Fluorobiphenyl

Concen: 4.46 ng

RT: 12.01 min Scan# 1603

Delta R.T. -0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

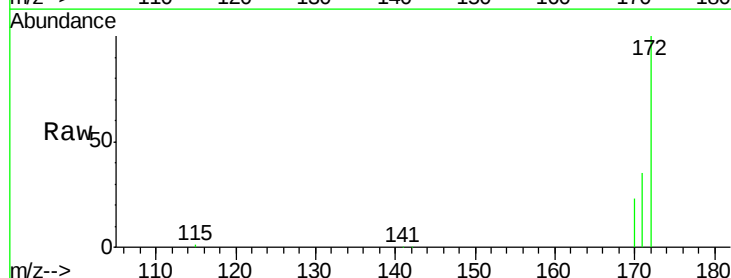
Tgt Ion:172 Resp: 145036

Ion Ratio Lower Upper

172 100

171 35.2 27.8 41.8

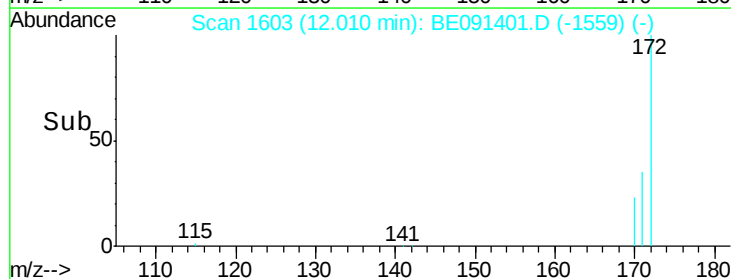
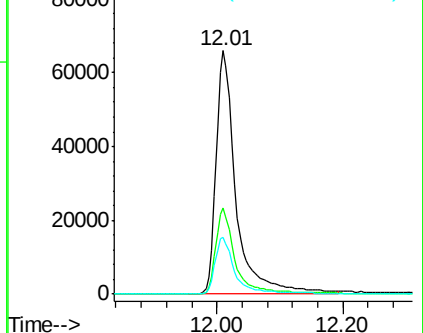
170 23.2 18.6 28.0

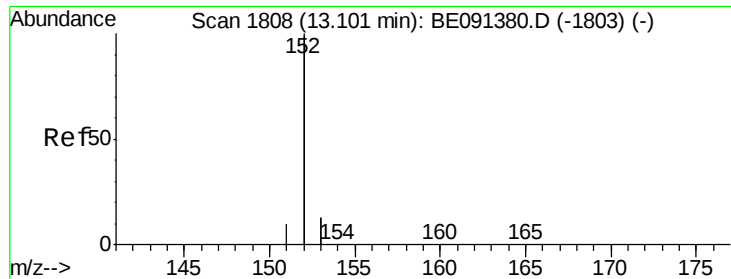


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.18 ng

RT: 13.12 min Scan# 1810

Delta R.T. 0.02 min

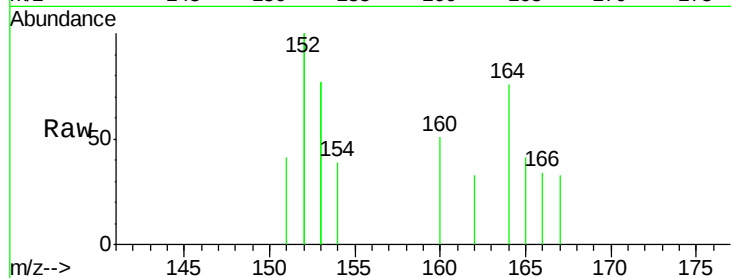
Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :



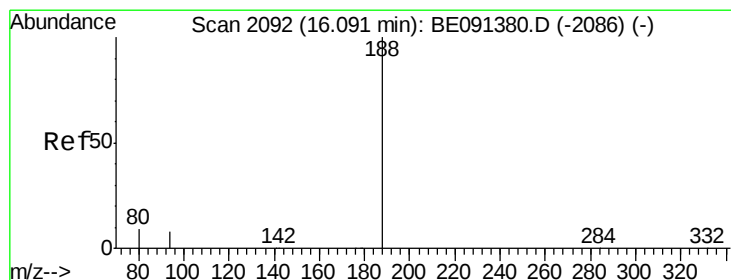
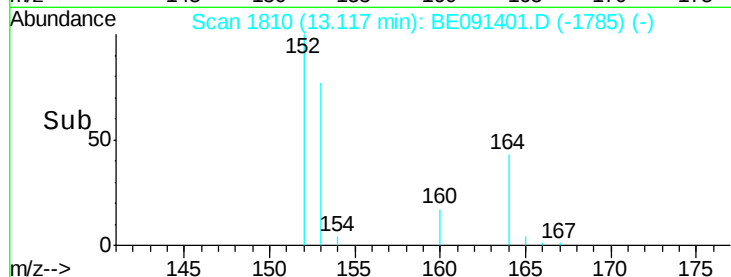
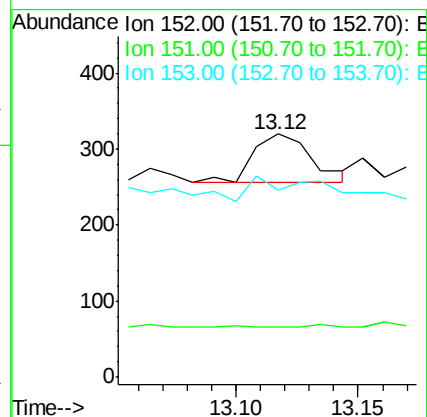
Tot Ion:152 Resp: 106

Ion Ratio Lower Upper

152 100

151 0.0 3.8 5.8#

153 71.7 10.2 15.4#



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

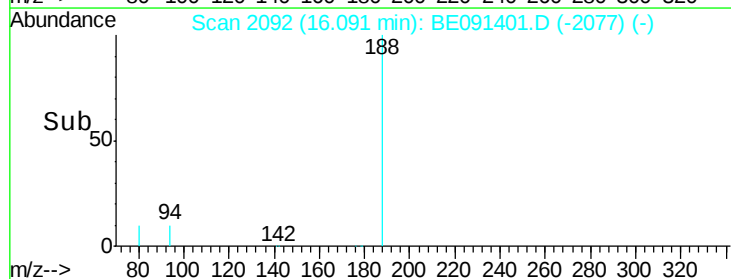
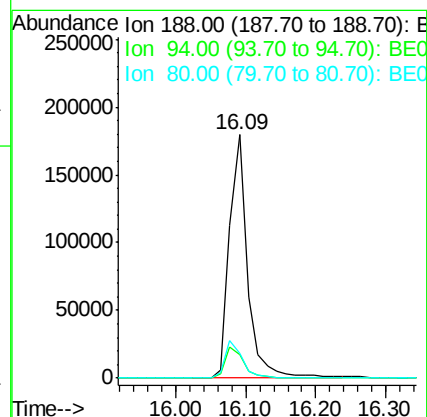
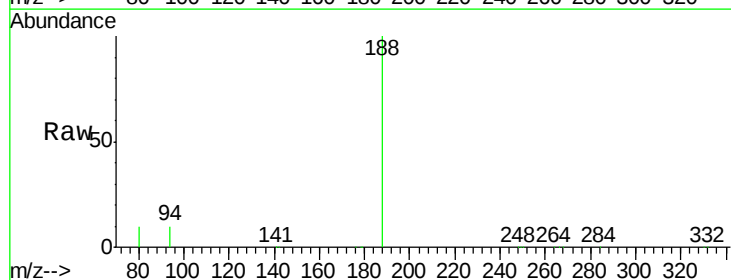
Tgt Ion:188 Resp: 323113

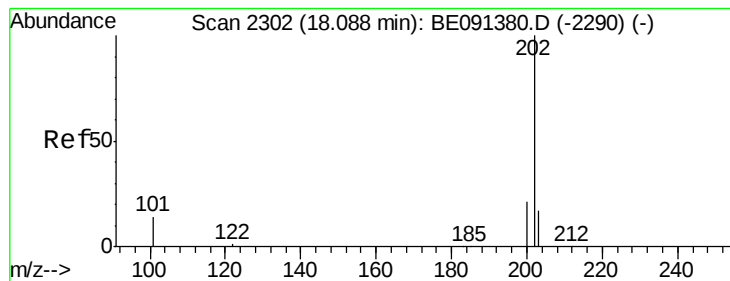
Ion Ratio Lower Upper

188 100

94 9.7 6.6 10.0

80 10.3 7.0 10.6





#17

Fluoranthene

Concen: 0.14 ng

RT: 18.10 min Scan# 2304

Delta R.T. 0.02 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

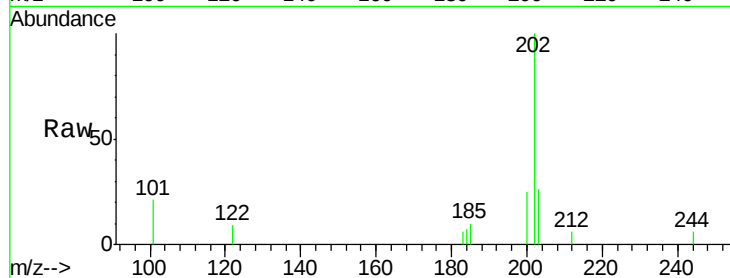
Tot Ion:202 Resp: 1781

Ion Ratio Lower Upper

202 100

101 14.5 10.5 15.7

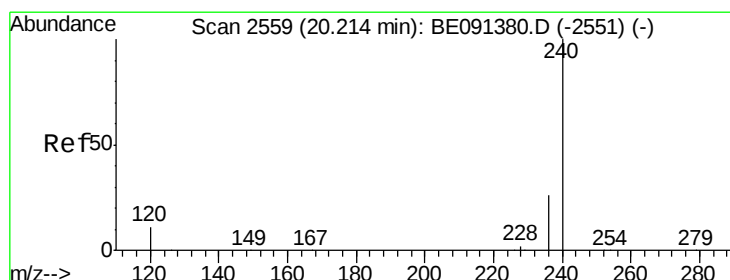
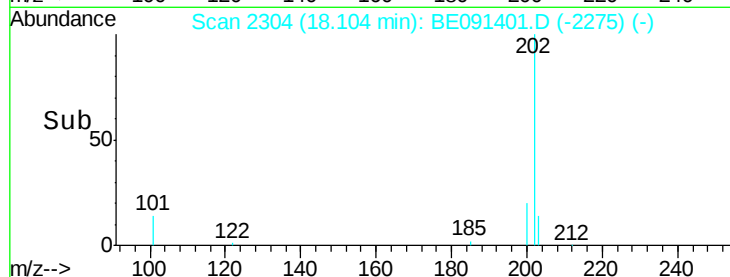
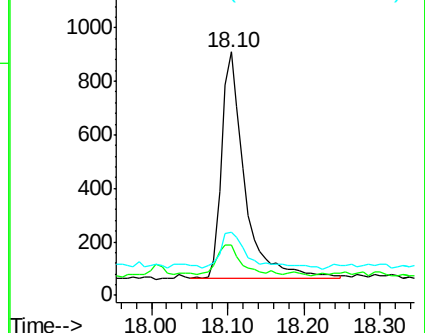
203 20.0 13.9 20.9



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



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.22 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

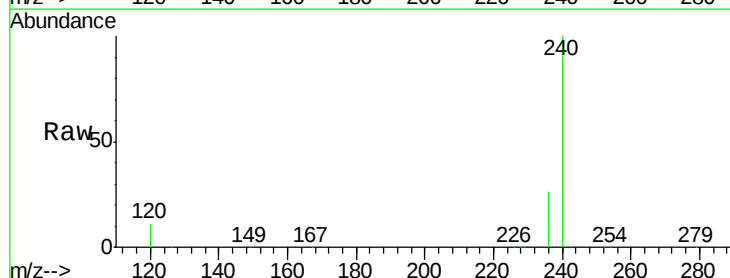
Tgt Ion:240 Resp: 385026

Ion Ratio Lower Upper

240 100

120 10.7 8.9 13.3

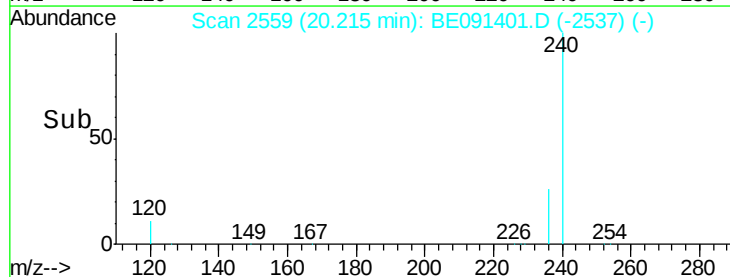
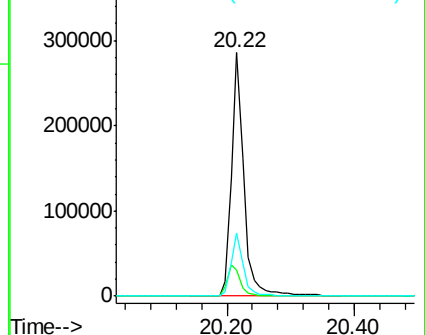
236 26.0 21.0 31.4

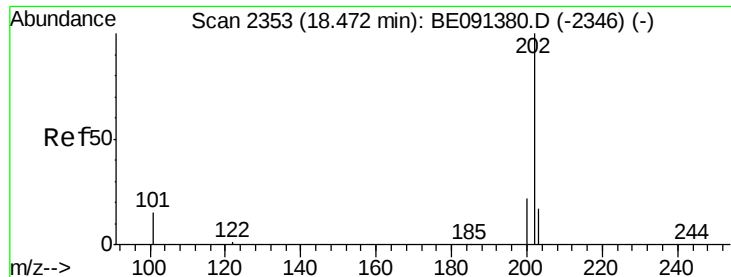


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 0.02 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.01 min

Lab File: BE091401.D

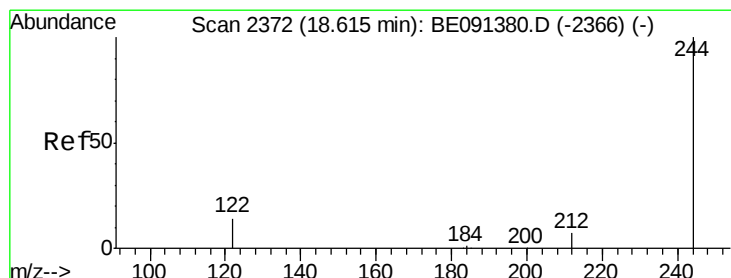
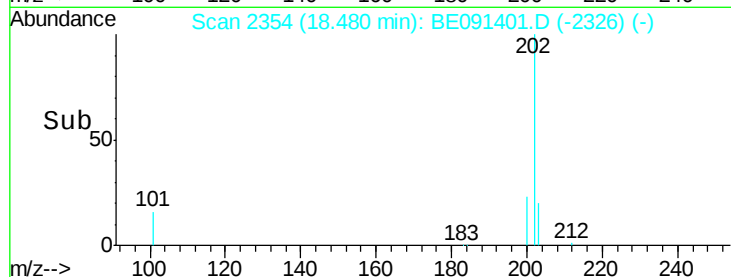
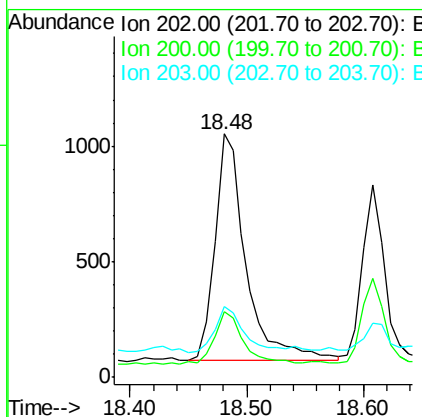
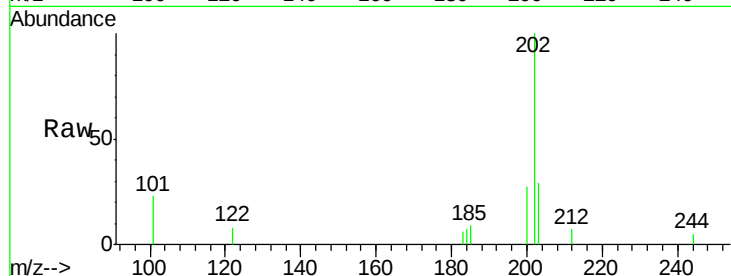
Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	202	Resp:	1823
Ion	Ratio	Lower	Upper
202	100		
200	22.9	16.8	25.2
203	20.2	14.0	21.0



#20

Terphenyl-d14

Concen: 5.10 ng

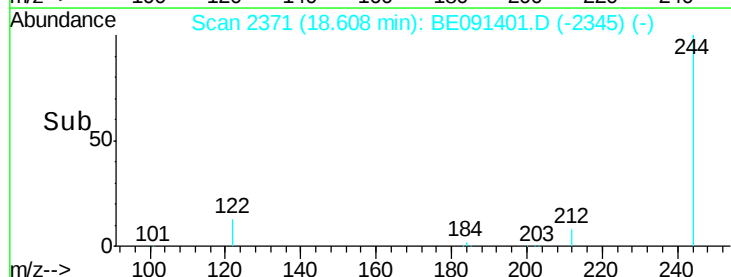
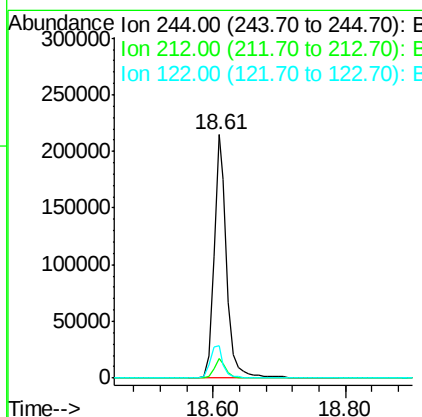
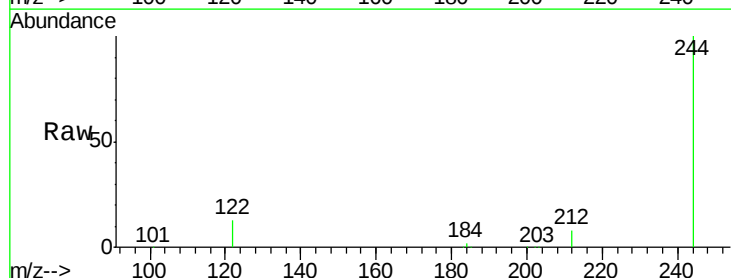
RT: 18.61 min Scan# 2371

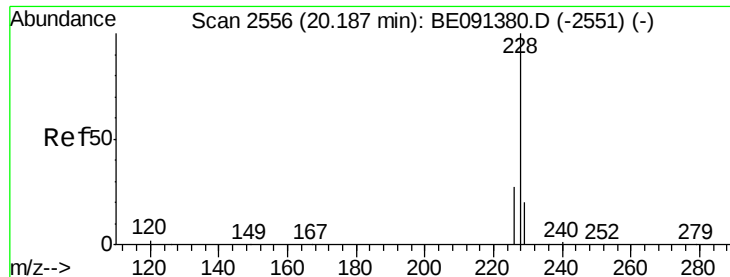
Delta R.T. -0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Tgt Ion:	244	Resp:	290407
Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.1	9.1
122	13.1	11.0	16.6





#21

Benzo(a)anthracene

Concen: 0.21 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampled :

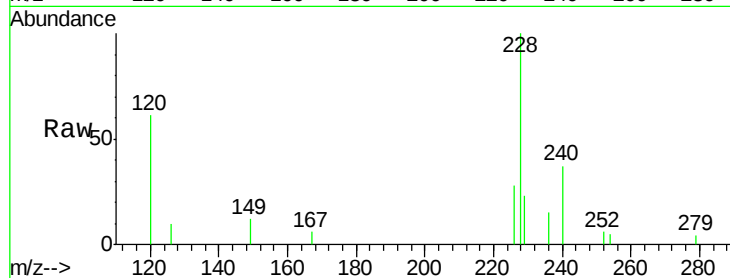
Tot Ion:228 Resp: 3156

Ion Ratio Lower Upper

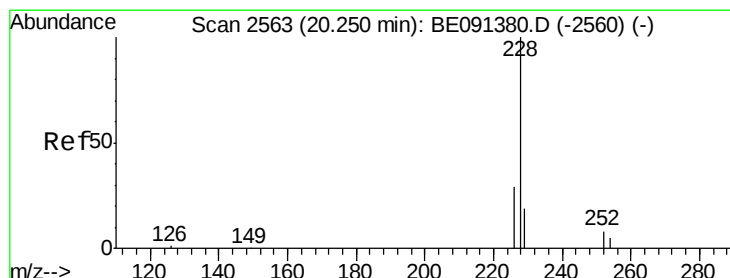
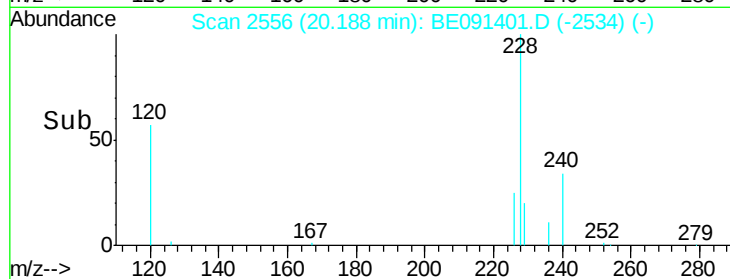
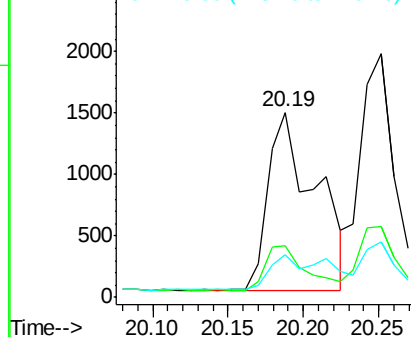
228 100

226 28.3 21.7 32.5

229 23.3 16.1 24.1



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



#22

Chrysene

Concen: Below Cal

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

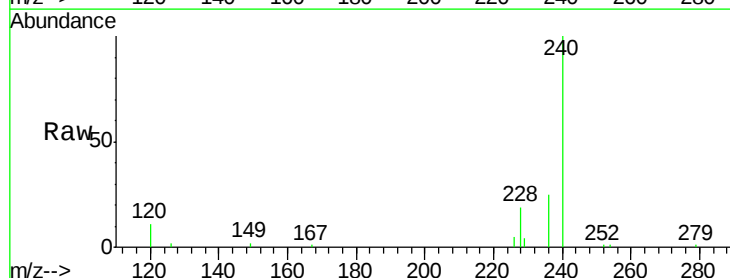
Tgt Ion:228 Resp: 3194

Ion Ratio Lower Upper

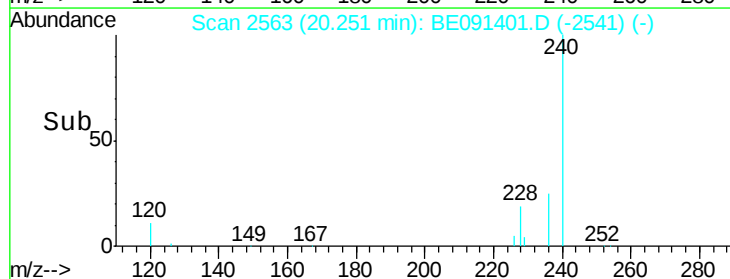
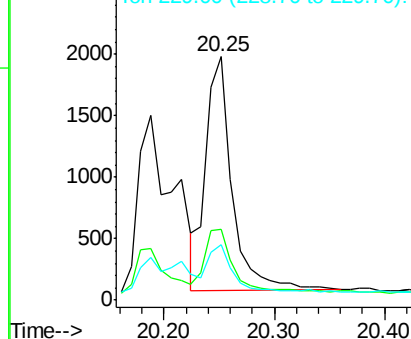
228 100

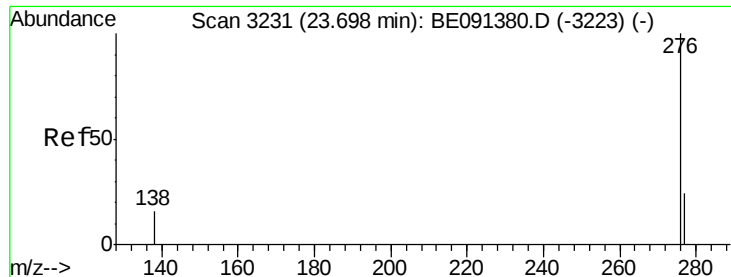
226 29.0 23.4 35.0

229 22.9 15.7 23.5



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





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.21 ng

RT: 23.73 min Scan# 3237

Delta R.T. 0.03 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

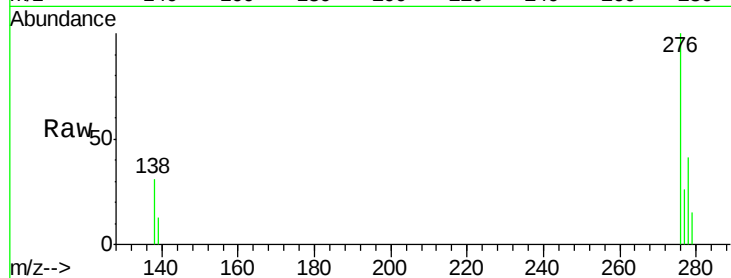
Tot Ion:276 Resp: 4077

Ion Ratio Lower Upper

276 100

138 18.5 16.6 25.0

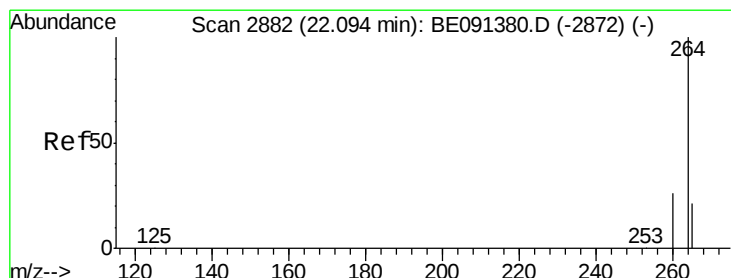
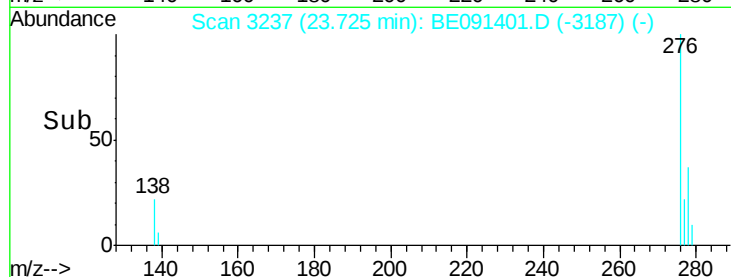
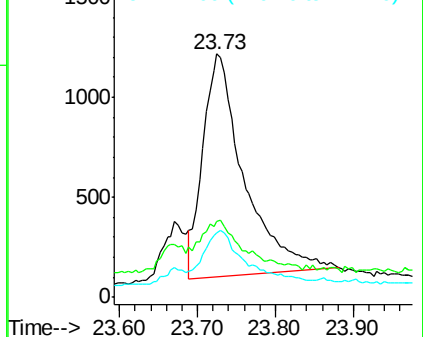
277 22.1 19.0 28.6



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

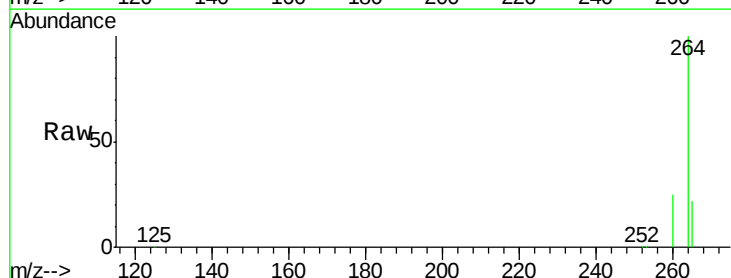
Tgt Ion:264 Resp: 370696

Ion Ratio Lower Upper

264 100

260 25.0 20.7 31.1

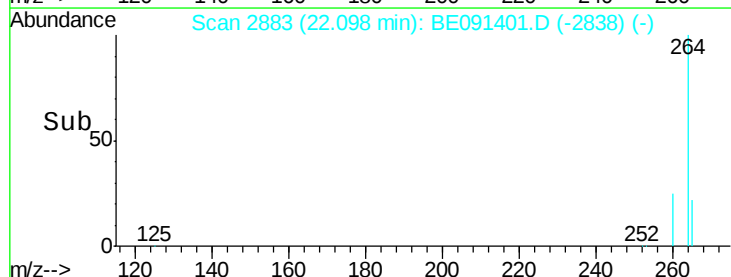
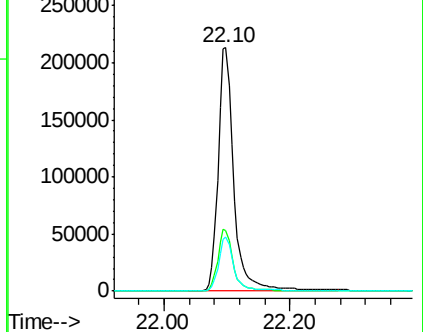
265 22.1 17.2 25.8

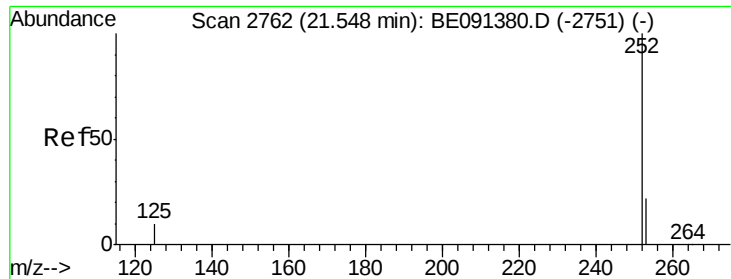


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#25

Benzo(b)fluoranthene

Concen: 0.18 ng

RT: 21.56 min Scan# 2764

Delta R.T. 0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

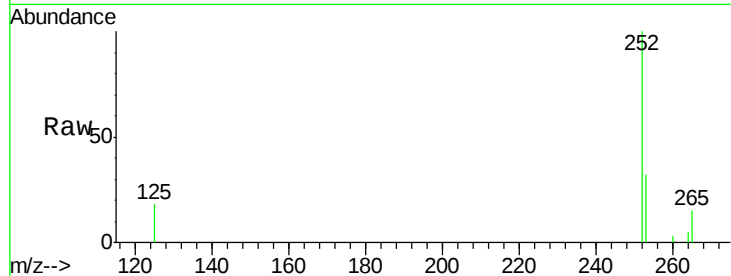
Tot Ion:252 Resp: 2606

Ion Ratio Lower Upper

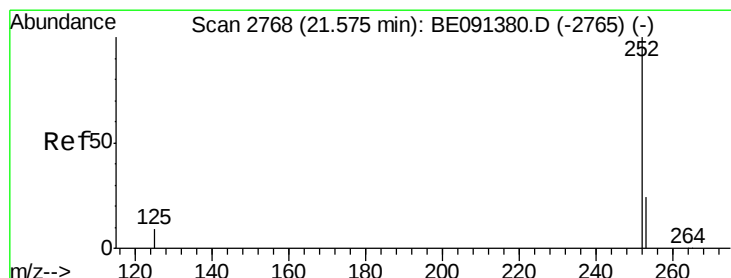
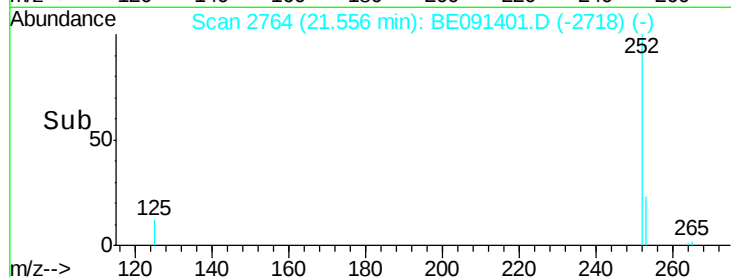
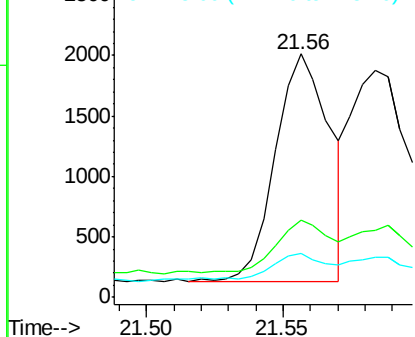
252 100

253 31.7 18.2 27.2#

125 18.2 8.3 12.5#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 21.58 min Scan# 2770

Delta R.T. 0.01 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

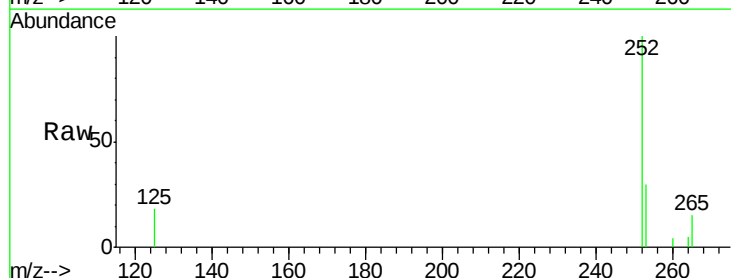
Tgt Ion:252 Resp: 3335

Ion Ratio Lower Upper

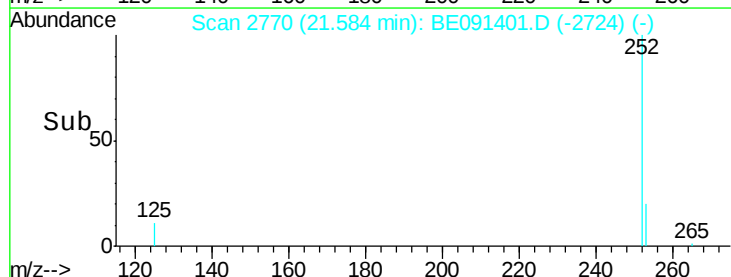
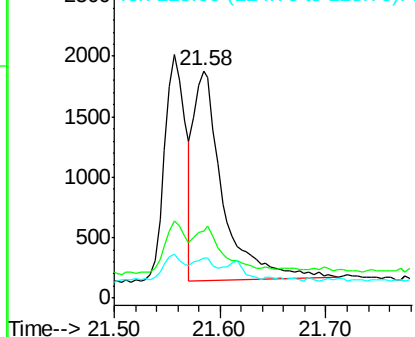
252 100

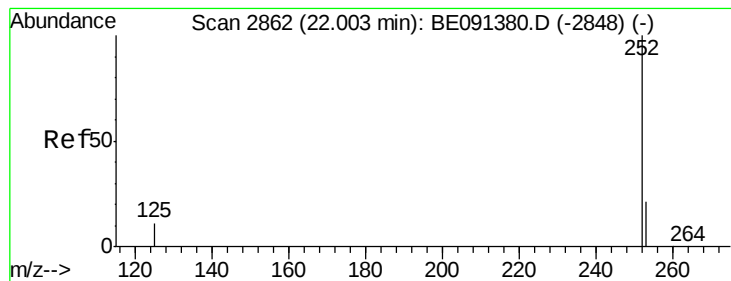
253 29.7 18.1 27.1#

125 17.5 8.2 12.4#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 0.20 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :

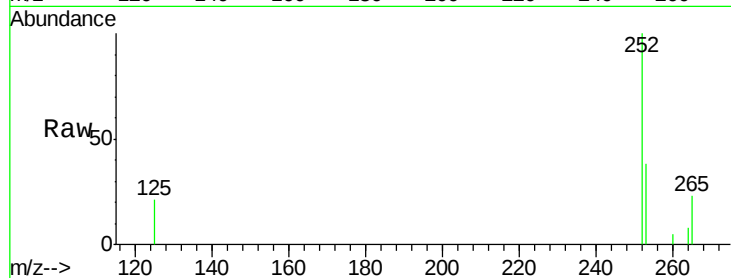
Tot Ion:252 Resp: 2311

Ion Ratio Lower Upper

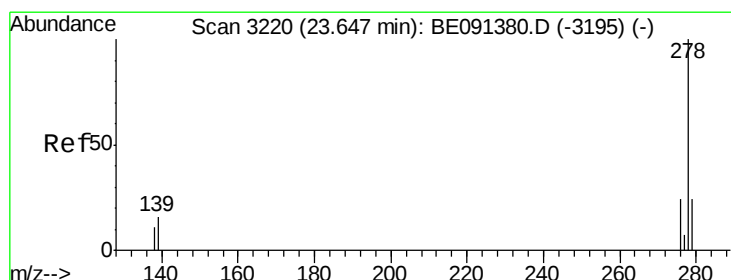
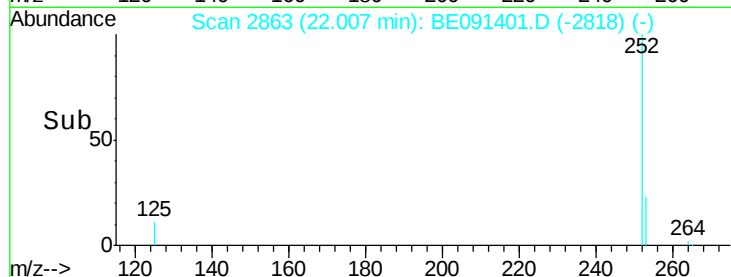
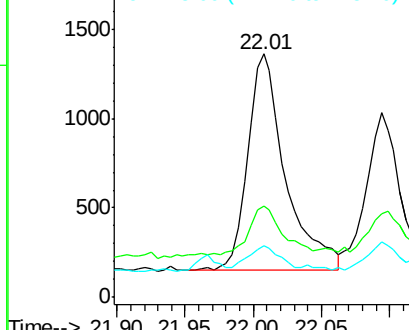
252 100

253 37.7 17.5 26.3#

125 21.3 9.4 14.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 23.68 min Scan# 3227

Delta R.T. 0.03 min

Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

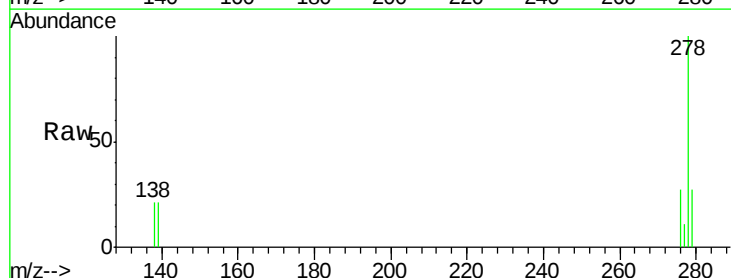
Tgt Ion:278 Resp: 4674

Ion Ratio Lower Upper

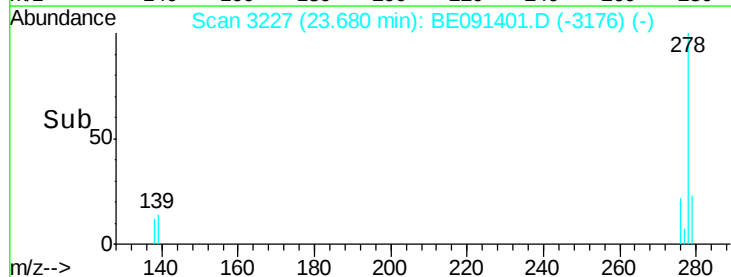
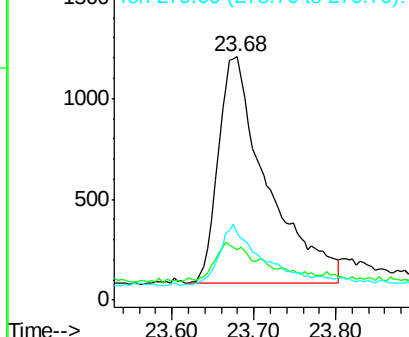
278 100

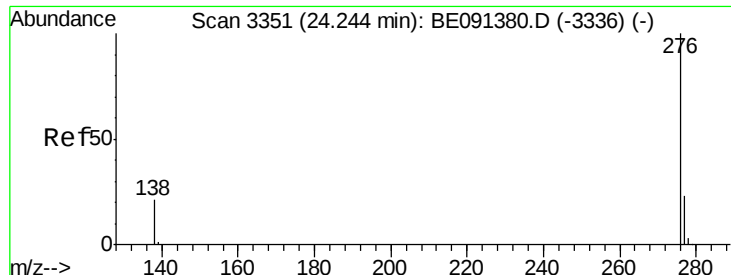
139 20.6 13.0 19.4#

279 27.4 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#29

Benzo(a,h,i)perylene

Concen: 0.18 ng

RT: 24.27 min Scan# 3357

Delta R.T. 0.03 min

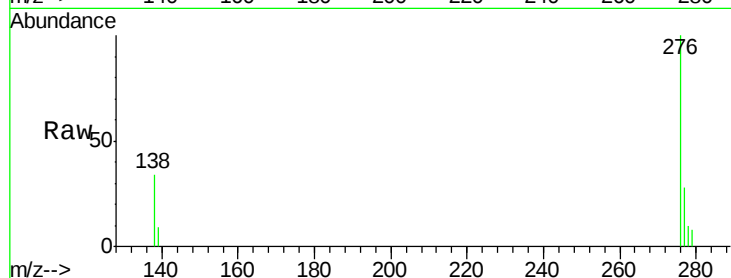
Lab File: BE091401.D

Acq: 5 Feb 2016 15:50

Instrument :

BNA_E

ClientSampleId :



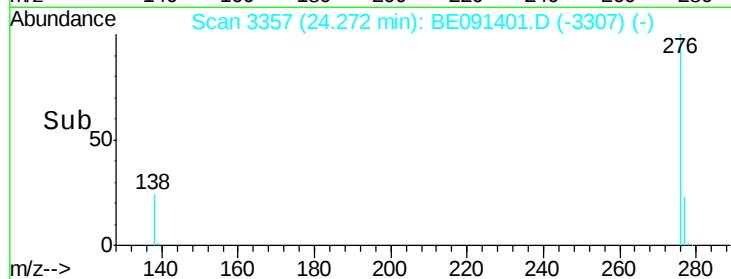
Tot Ion: 276 Resp: 3799

Ion Ratio Lower Upper

276 100

277 28.0 18.9 28.3

138 33.8 17.0 25.6#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

