

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE082916\
 Data File : BE092294.D
 Acq On : 29 Aug 2016 18:19
 Operator : UM/SJ
 Sample : PB93078BL
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB93078BL

Quant Time: Aug 30 00:48:37 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE082916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 29 18:19:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.19	152	13398	5.00	ng	0.00
7) Naphthalene-d8	10.97	136	58441	5.00	ng	0.00
12) Acenaphthene-d10	14.83	164	28868	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	64999	5.00	ng	0.00
24) Chrysene-d12	21.75	240	80617	5.00	ng	0.00
31) Perylene-d12	24.12	264	85599	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.68	112	216962	72.17	ng	-0.02
5) Phenol-d6	7.34	99	274784	69.39	ng	-0.04
8) Nitrobenzene-d5	9.34	82	267796	70.04	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	56451	72.21	ng	-0.02
14) 2-Fluorobiphenyl	13.44	172	463359	51.12	ng	-0.01
26) Terphenyl-d14	20.19	244	584903	53.70	ng	0.00

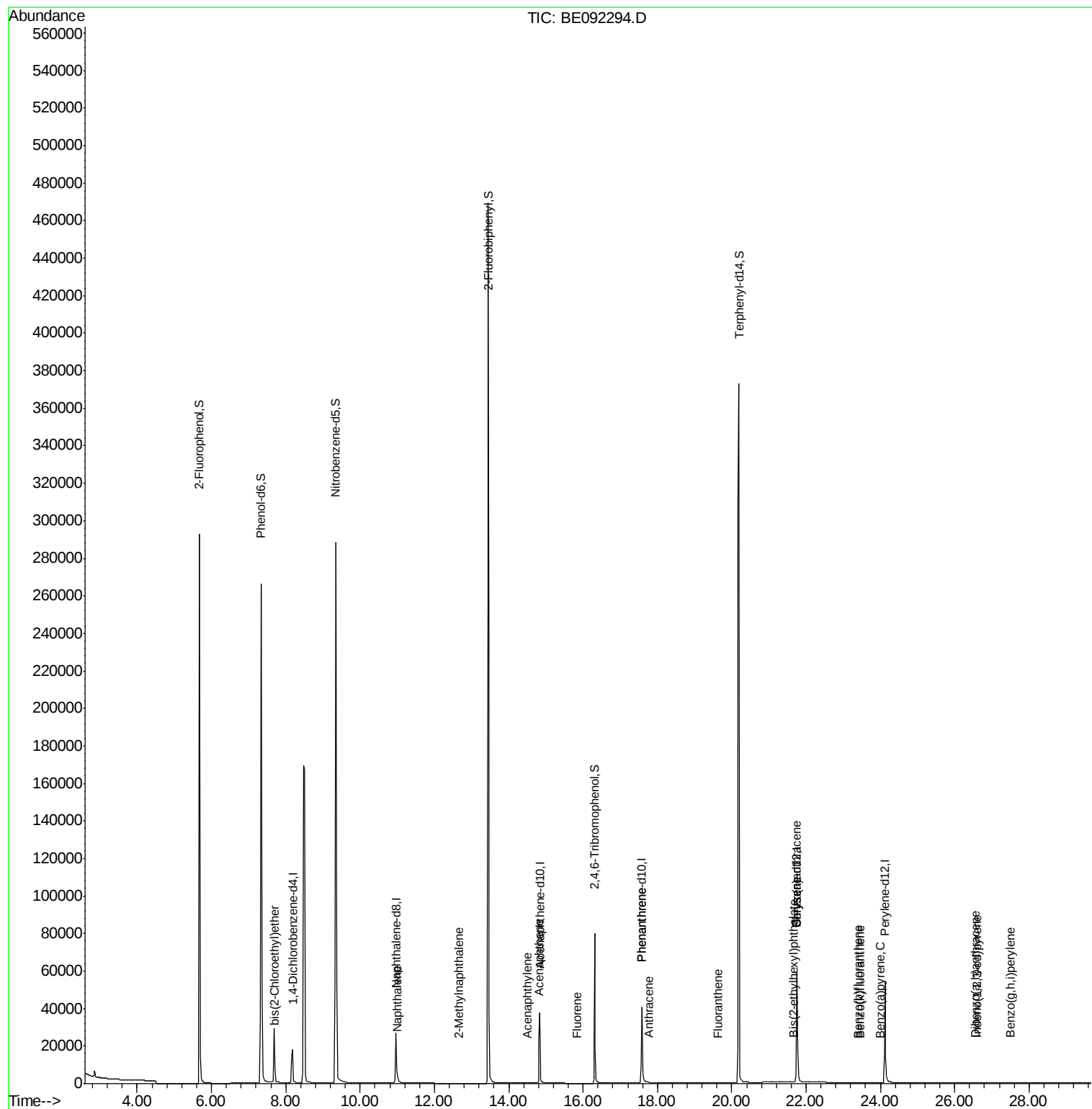
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) bis(2-Chloroethyl)ether	7.70	93	308	0.10	ng	# 1
9) Naphthalene	11.01	128	18	0.00	ng	# 1
11) 2-Methylnaphthalene	12.67	142	12	0.00	ng	# 57
15) Acenaphthylene	14.51	152	16	0.00	ng	# 1
16) Acenaphthene	14.81	154	120	0.01	ng	# 1
17) Fluorene	15.84	166	9	0.00	ng	# 8
20) Pentachlorophenol	17.19	266	1	Below Cal		# 79
21) Phenanthrene	17.58	178	69	0.00	ng	# 1
22) Anthracene	17.76	178	3	0.00	ng	# 61
23) Fluoranthene	19.63	202	25	0.00	ng	# 65
27) Benzo(a)anthracene	21.75	228	1212	0.14	ng	# 70
28) Chrysene	21.75	228	1236	0.02	ng	# 68
29) Bis(2-ethylhexyl)phthalate	21.66	149	80	0.02	ng	# 47
30) Indeno(1,2,3-cd)pyrene	26.60	276	20	0.00	ng	# 92
32) Benzo(b)fluoranthene	23.39	252	17	0.00	ng	# 1
33) Benzo(k)fluoranthene	23.45	252	10	0.00	ng	# 1
34) Benzo(a)pyrene	24.01	252	14	0.00	ng	# 1
35) Dibenzo(a,h)anthracene	26.55	278	1	0.00	ng	# 1
36) Benzo(g,h,i)perylene	27.49	276	74	0.00	ng	# 1

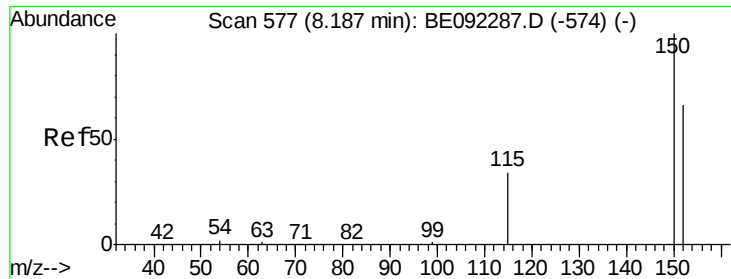
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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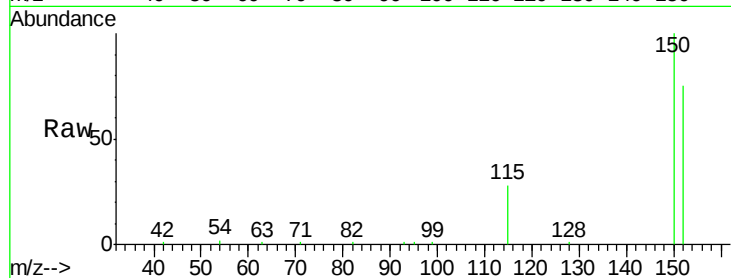




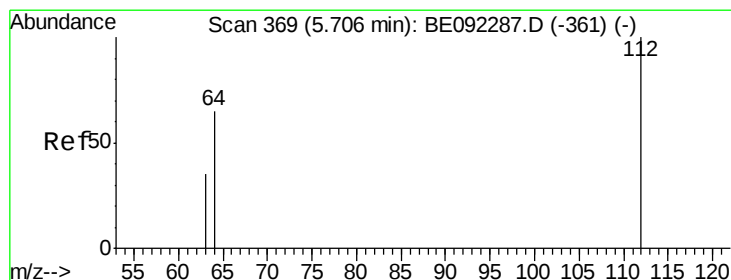
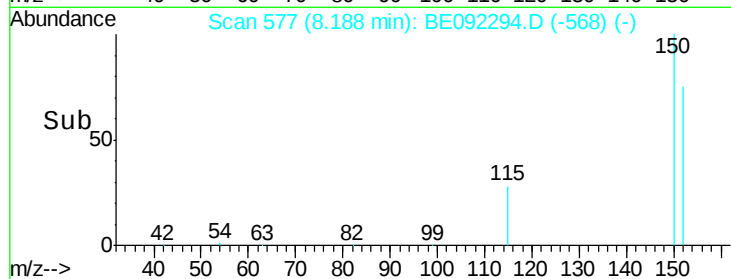
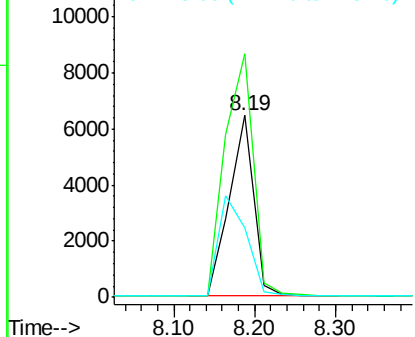
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.19 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: BE092294.D
 Acq: 29 Aug 2016 18:19

Instrument :
 BNA_E
 ClientSampleId :
 PB93078BL

Tgt Ion:152 Resp: 13398
 Ion Ratio Lower Upper
 152 100
 150 133.9 135.6 203.4#
 115 38.0 59.4 89.0#

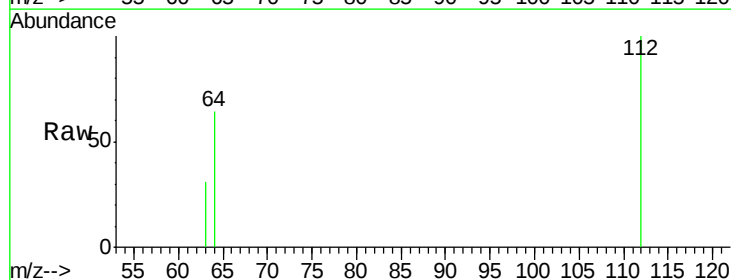


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

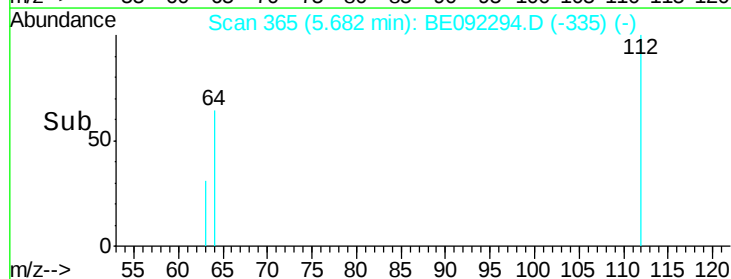
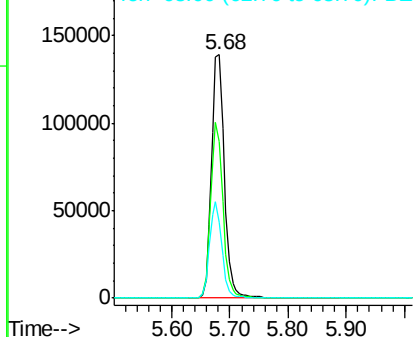


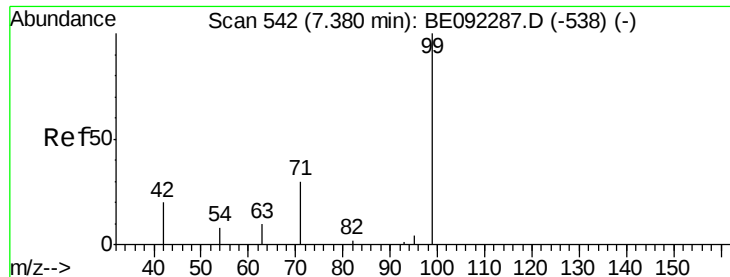
#4
 2-Fluorophenol
 Concen: 72.17 ng
 RT: 5.68 min Scan# 365
 Delta R.T. -0.02 min
 Lab File: BE092294.D
 Acq: 29 Aug 2016 18:19

Tgt Ion:112 Resp: 216962
 Ion Ratio Lower Upper
 112 100
 64 69.1 53.2 79.8
 63 37.9 27.4 41.2



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: 69.39 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.04 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampled :

PB93078BL

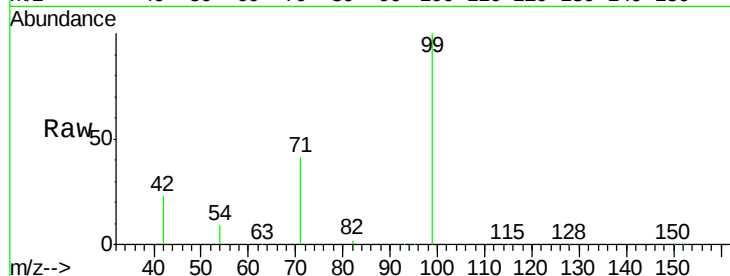
Tgt Ion: 99 Resp: 274784

Ion Ratio Lower Upper

99 100

42 27.2 0.0 0.0#

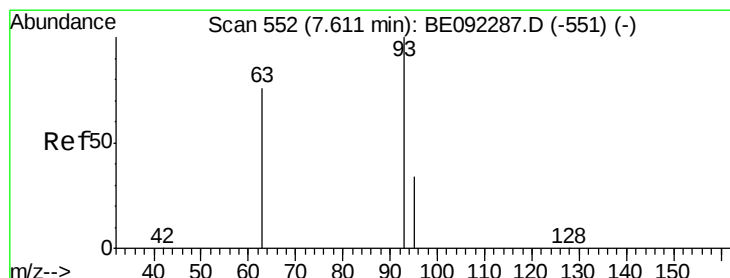
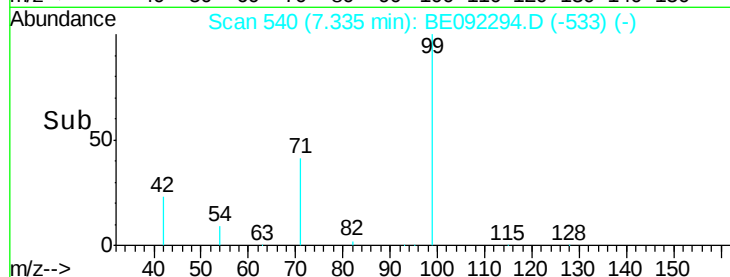
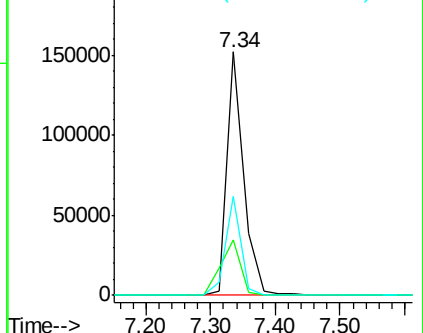
71 37.9 29.8 44.8



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

bis(2-Chloroethyl)ether

Concen: 0.10 ng

RT: 7.70 min Scan# 556

Delta R.T. 0.09 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

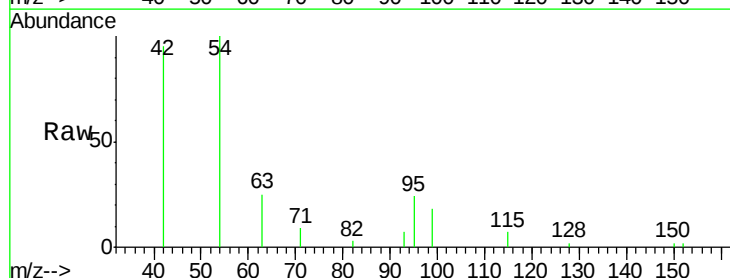
Tgt Ion: 93 Resp: 308

Ion Ratio Lower Upper

93 100

63 0.0 68.5 102.7#

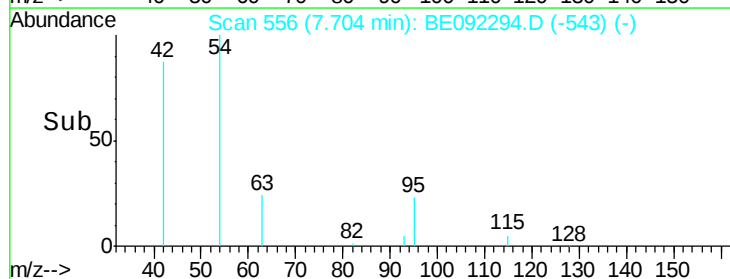
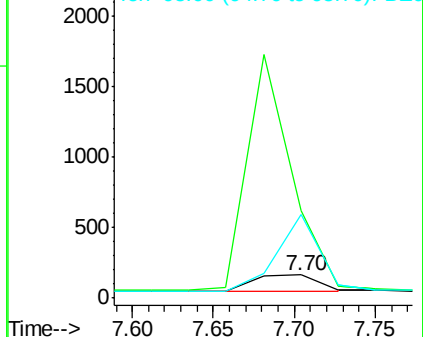
95 323.4 27.2 40.8#

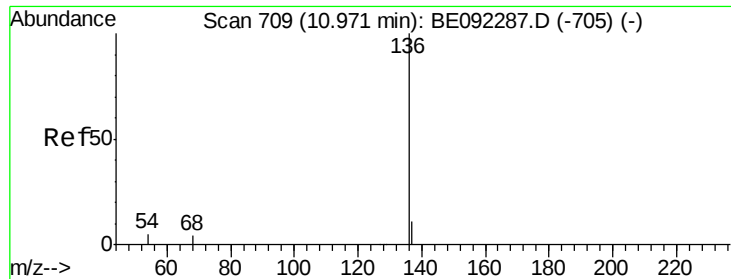


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

Tgt Ion:136 Resp: 58441

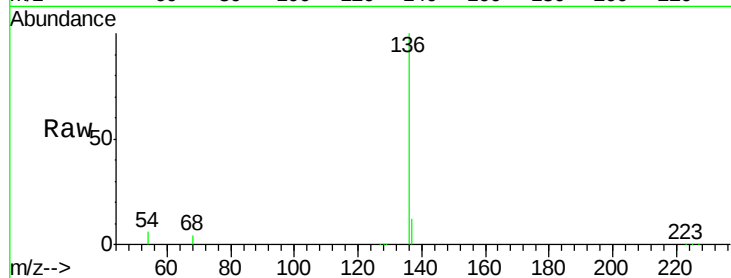
Ion Ratio Lower Upper

136 100

137 11.8 8.8 13.2

54 5.5 6.2 9.4#

68 4.1 4.6 6.8#

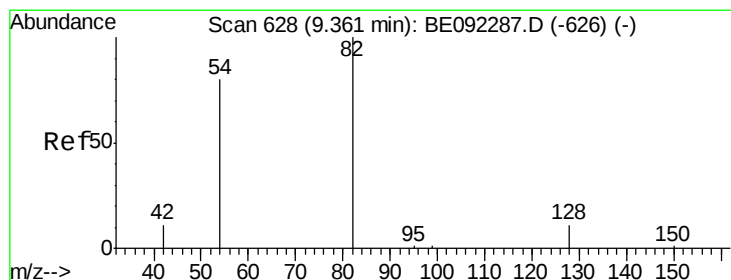
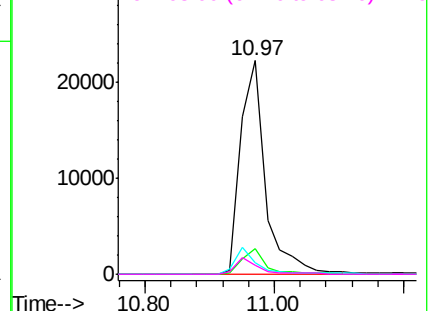
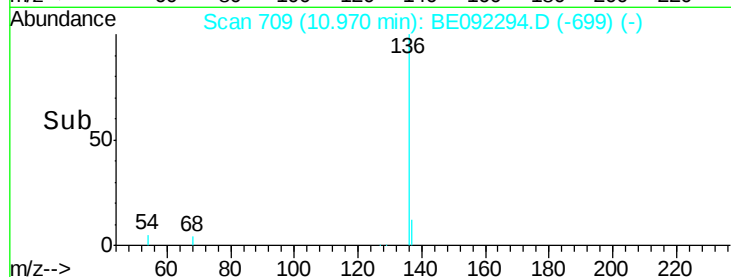


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 70.04 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

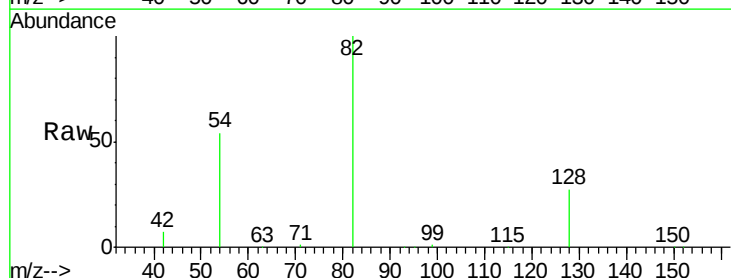
Tgt Ion: 82 Resp: 267796

Ion Ratio Lower Upper

82 100

128 26.5 45.0 67.4#

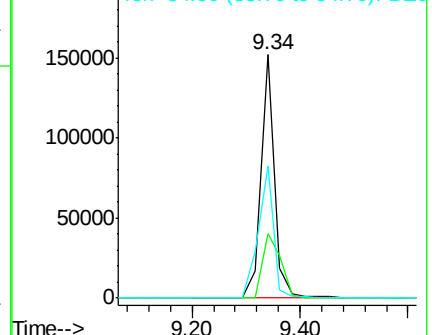
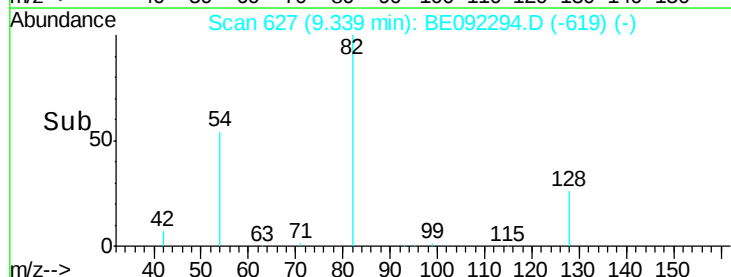
54 54.4 45.4 68.2

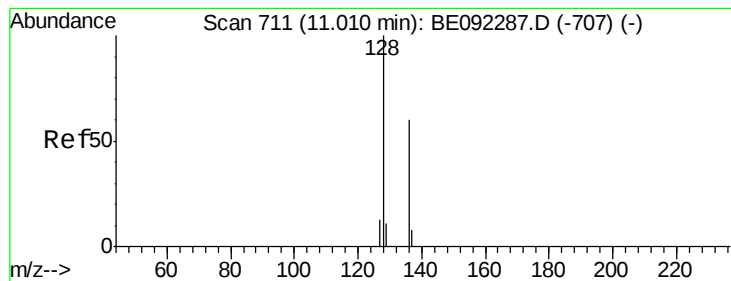


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.00 ng

RT: 11.01 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

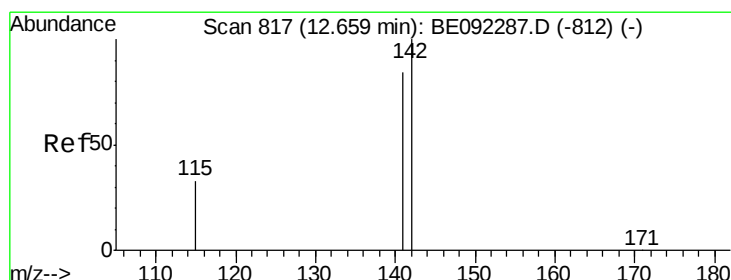
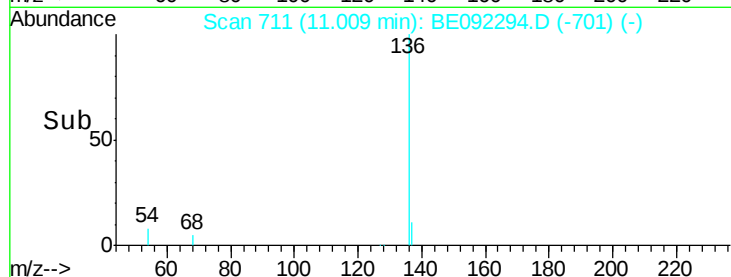
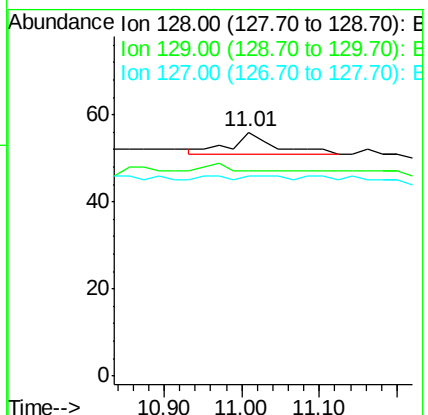
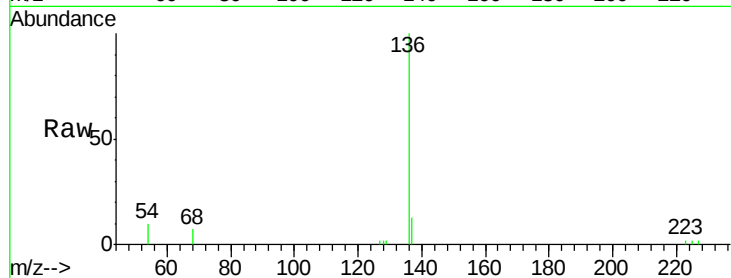
Tgt Ion:128 Resp: 18

Ion Ratio Lower Upper

128 100

129 83.9 11.5 17.3#

127 82.1 11.0 16.6#



#11

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.67 min Scan# 818

Delta R.T. 0.01 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

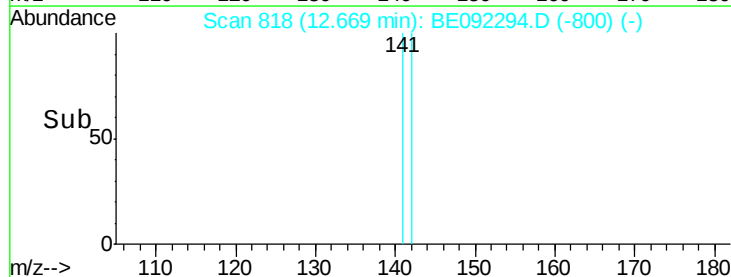
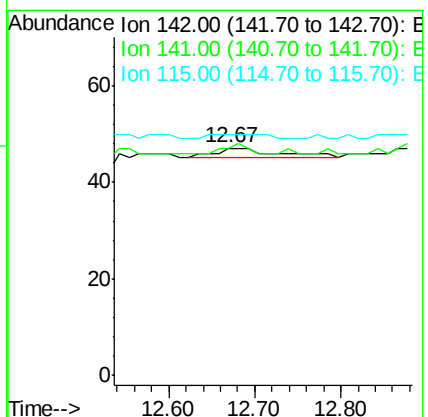
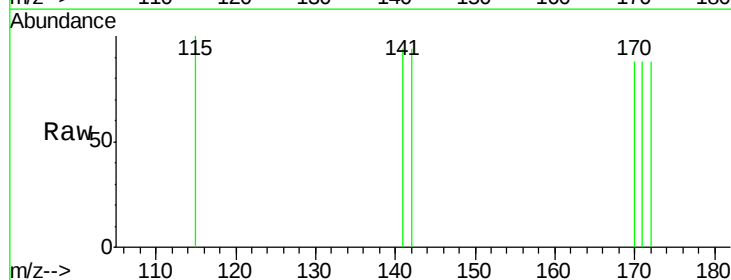
Tgt Ion:142 Resp: 12

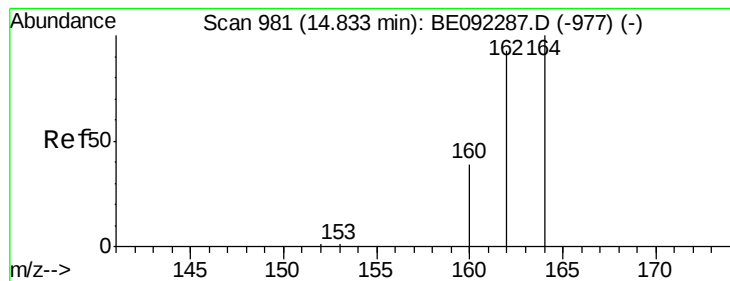
Ion Ratio Lower Upper

142 100

141 100.0 70.6 105.8

115 106.4 31.0 46.4#





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 981

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

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ClientSampleId :

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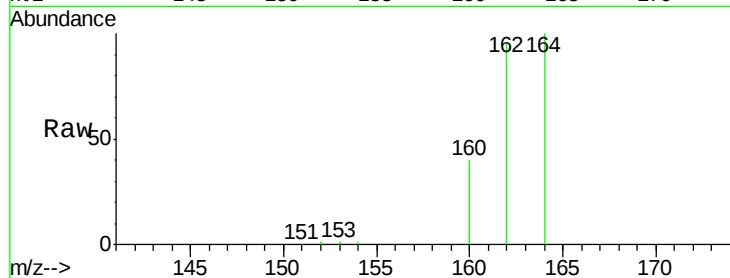
Tgt Ion:164 Resp: 28868

Ion Ratio Lower Upper

164 100

162 95.1 83.3 124.9

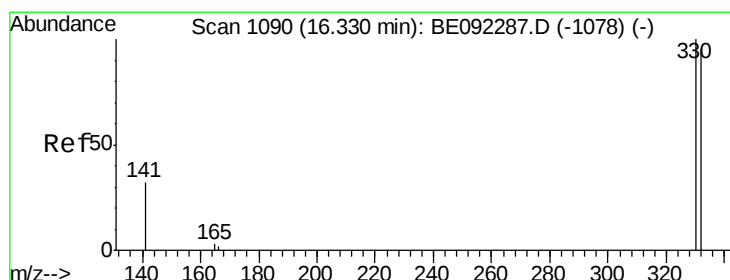
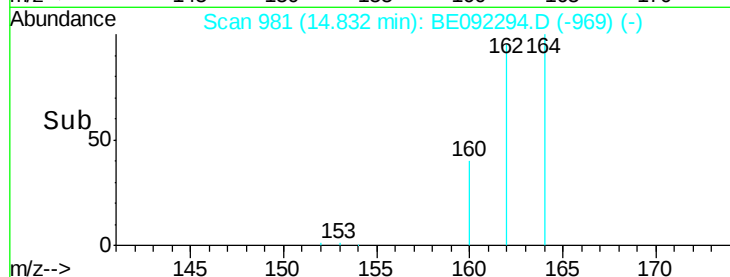
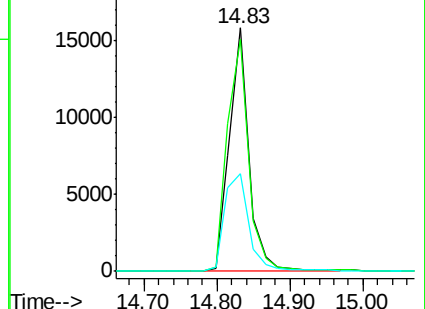
160 39.9 38.0 57.0



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



#13

2,4,6-Tribromophenol

Concen: 72.21 ng

RT: 16.31 min Scan# 1088

Delta R.T. -0.02 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

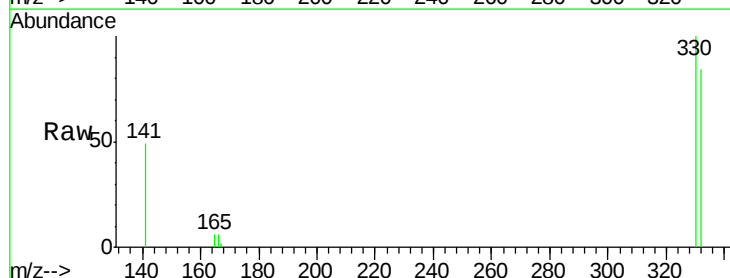
Tgt Ion:330 Resp: 56451

Ion Ratio Lower Upper

330 100

332 96.6 75.4 113.0

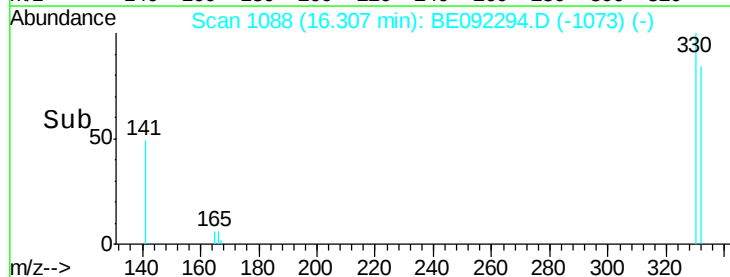
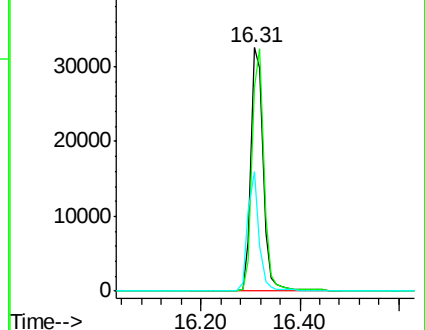
141 44.7 37.7 56.5

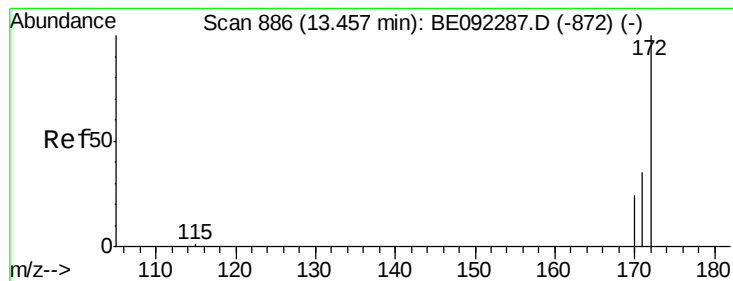


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 51.12 ng

RT: 13.44 min Scan# 885

Delta R.T. -0.01 min

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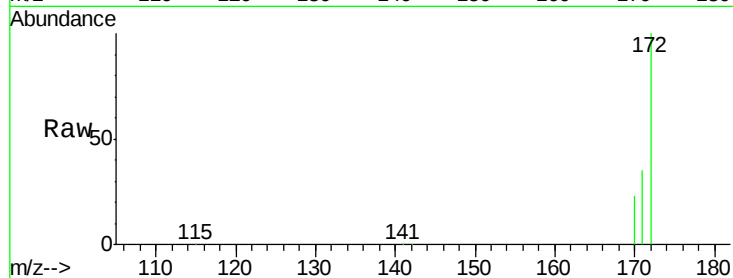
Tgt Ion:172 Resp: 463359

Ion Ratio Lower Upper

172 100

171 34.8 26.8 40.2

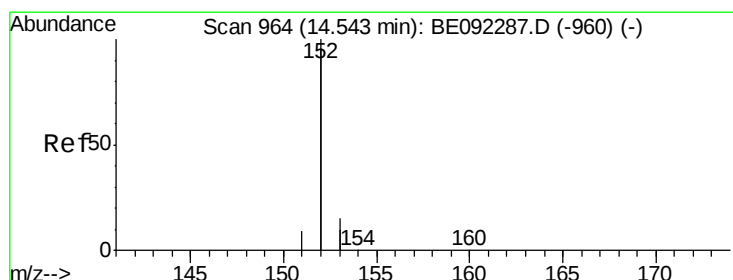
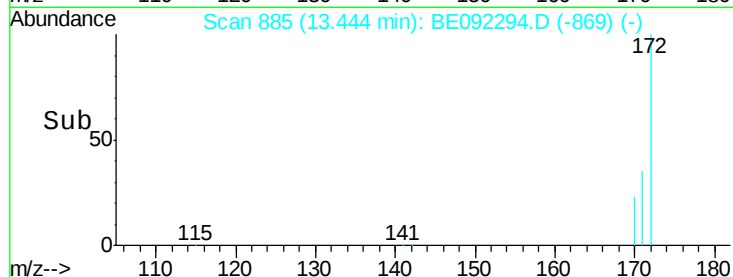
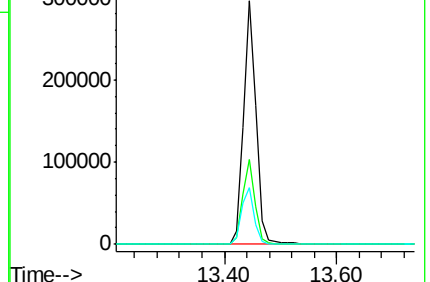
170 23.3 17.8 26.6



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



#15

Acenaphthylene

Concen: 0.00 ng

RT: 14.51 min Scan# 962

Delta R.T. -0.03 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

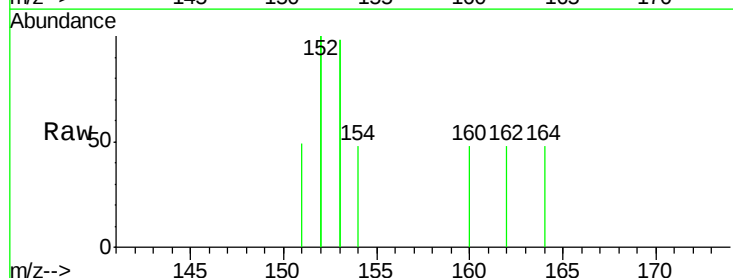
Tgt Ion:152 Resp: 16

Ion Ratio Lower Upper

152 100

151 0.0 3.8 5.8#

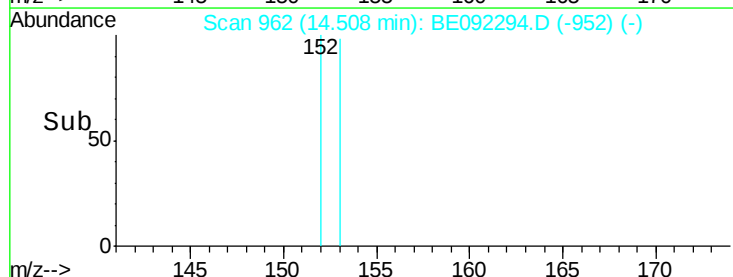
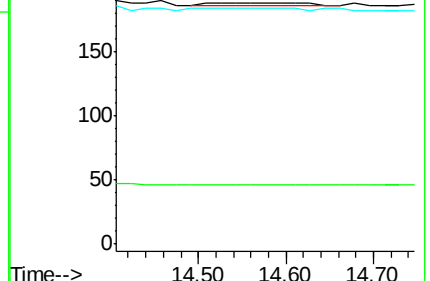
153 100.0 10.2 15.2#

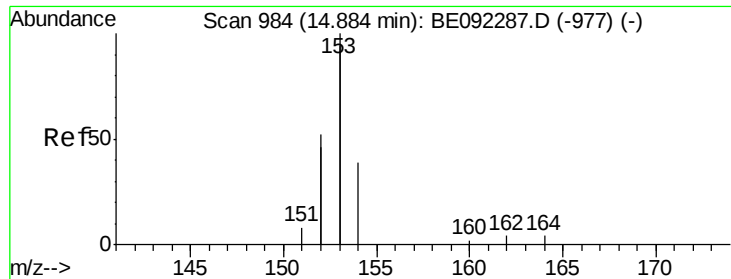


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 0.01 ng

RT: 14.81 min Scan# 980

Delta R.T. -0.07 min

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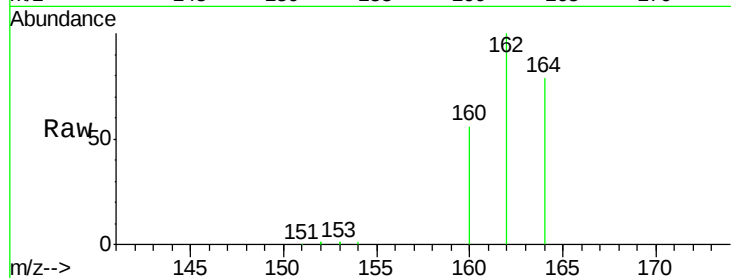
Tgt Ion:154 Resp: 120

Ion Ratio Lower Upper

154 100

153 30.8 355.0 532.4#

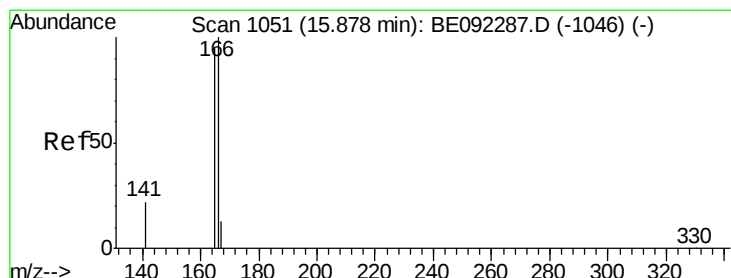
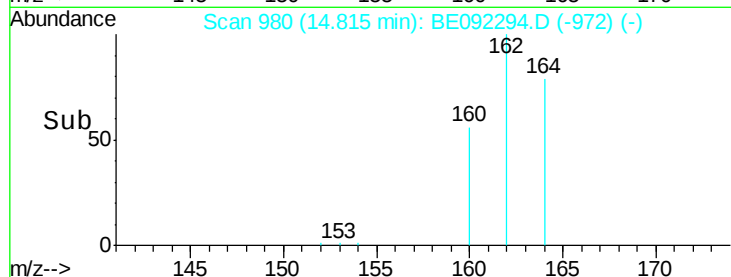
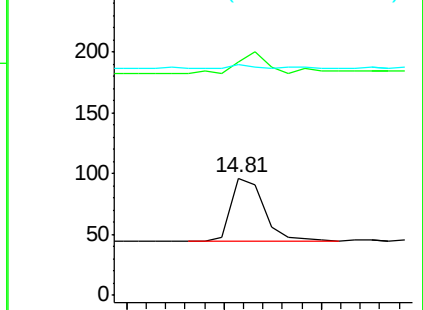
152 5.0 179.7 269.5#



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



#17

Fluorene

Concen: 0.00 ng

RT: 15.84 min Scan# 1048

Delta R.T. -0.03 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

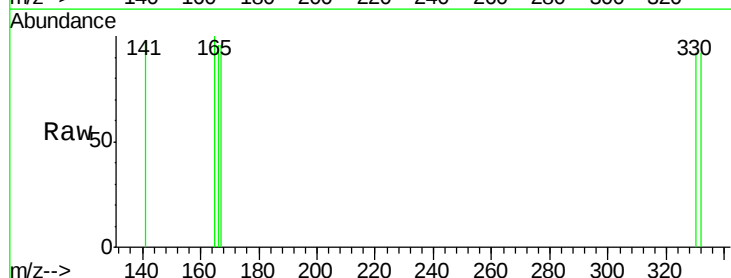
Tgt Ion:166 Resp: 9

Ion Ratio Lower Upper

166 100

165 0.0 80.1 120.1#

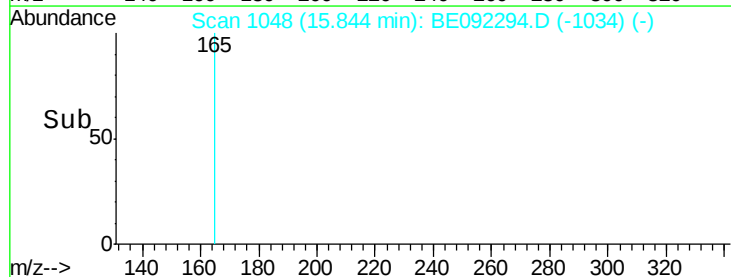
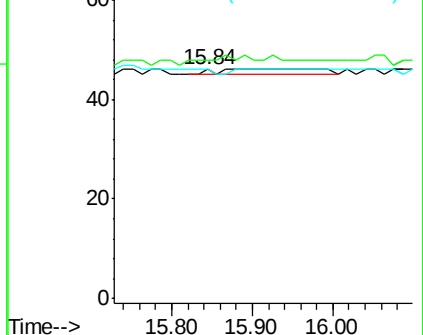
167 0.0 10.6 16.0#

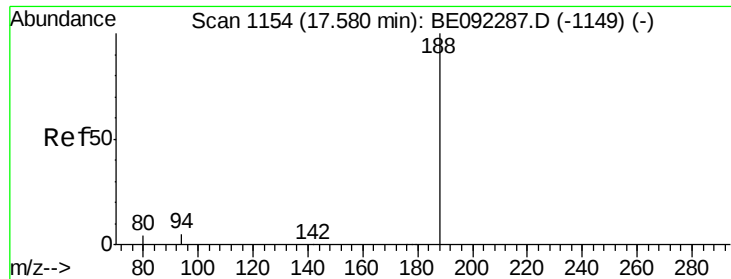


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

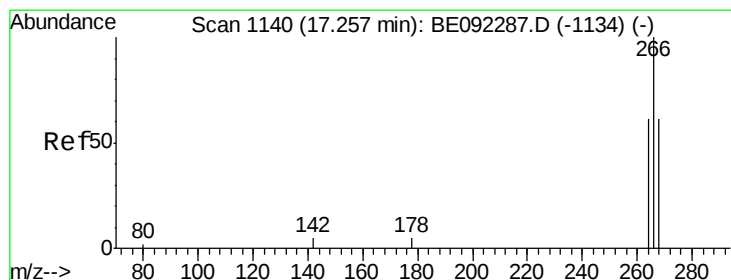
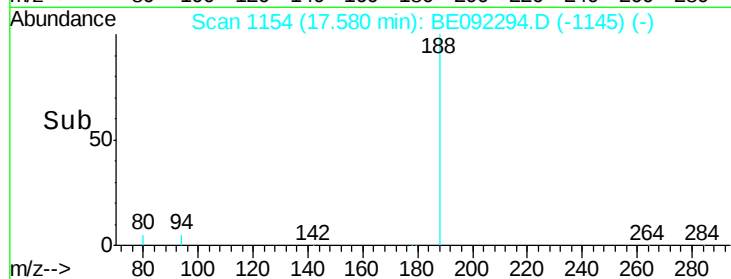
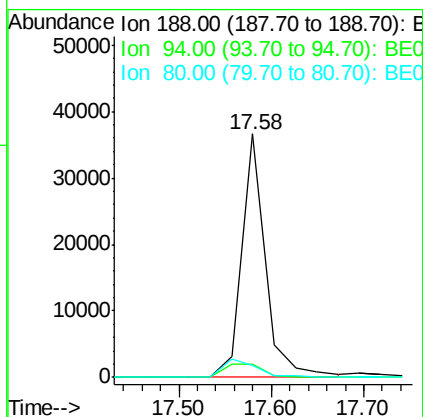
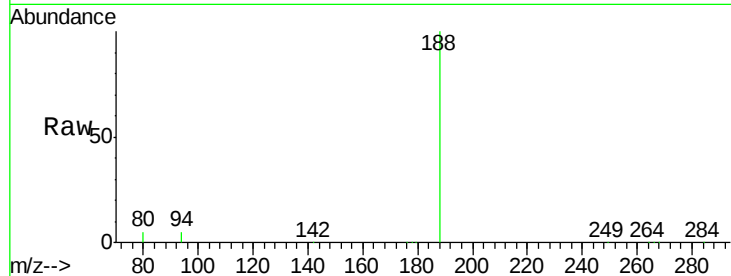




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.58 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BE092294.D
Acq: 29 Aug 2016 18:19

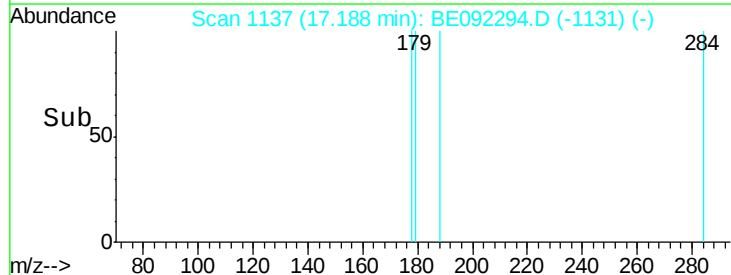
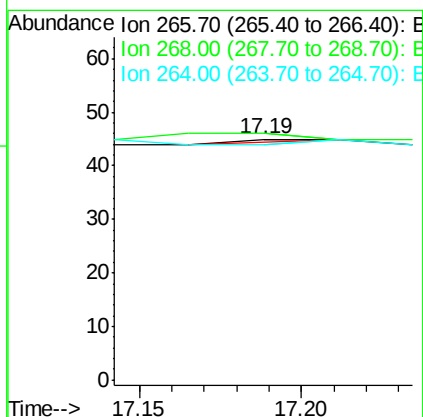
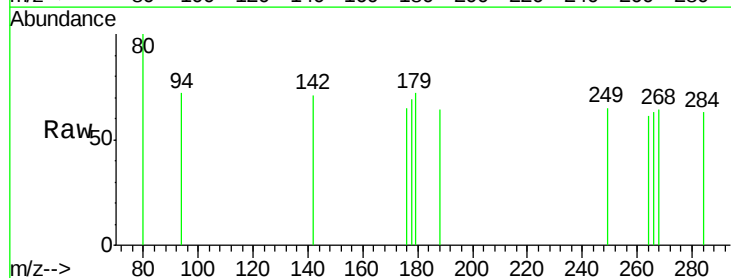
Instrument :
BNA_E
ClientSampleId :
PB93078BL

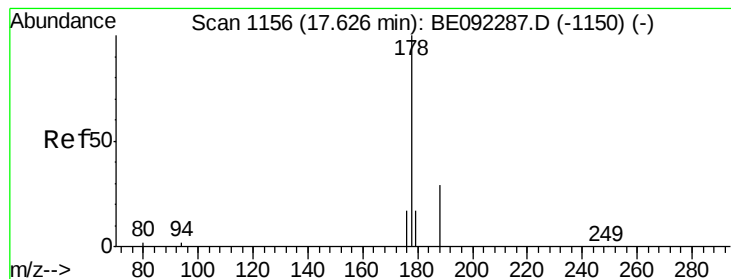
Tgt Ion:188 Resp: 64999
Ion Ratio Lower Upper
188 100
94 5.5 9.2 13.8#
80 4.9 9.1 13.7#



#20
Pentachlorophenol
Concen: Below Cal
RT: 17.19 min Scan# 1137
Delta R.T. -0.07 min
Lab File: BE092294.D
Acq: 29 Aug 2016 18:19

Tgt Ion:266 Resp: 1
Ion Ratio Lower Upper
266 100
268 102.2 62.3 93.5#
264 97.8 67.4 101.0





#21

Phenanthrene

Concen: 0.00 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.05 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

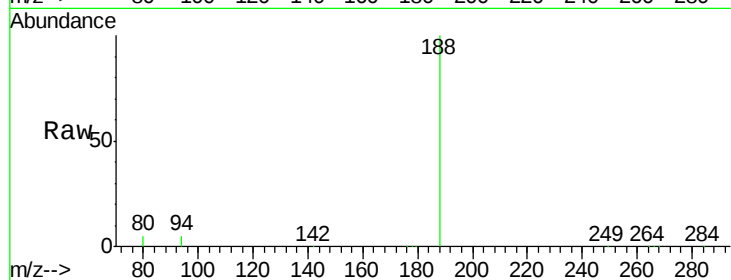
Tgt Ion:178 Resp: 69

Ion Ratio Lower Upper

178 100

176 0.0 15.1 22.7#

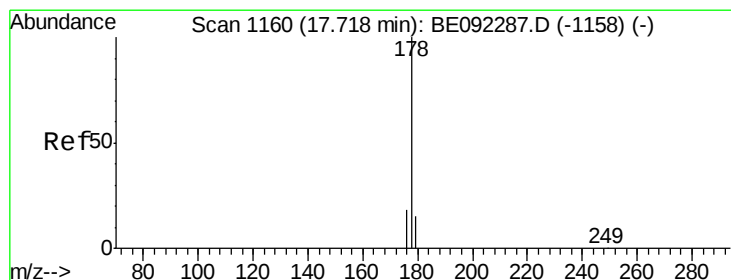
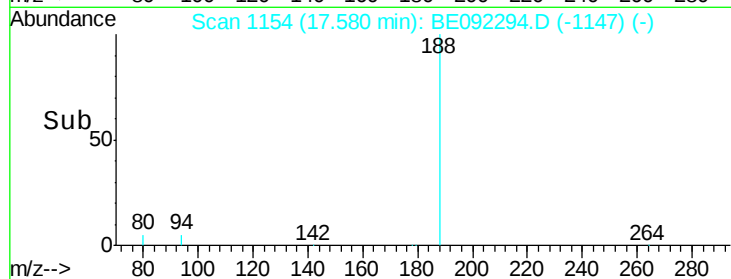
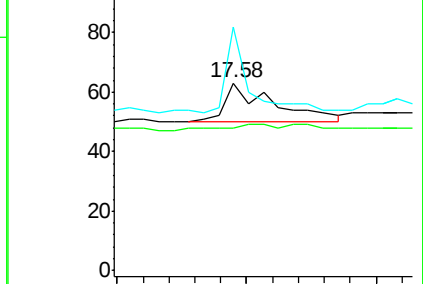
179 108.7 12.9 19.3#



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



#22

Anthracene

Concen: 0.00 ng

RT: 17.76 min Scan# 1162

Delta R.T. 0.05 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

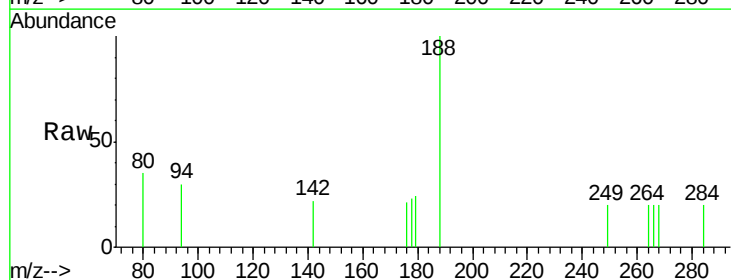
Tgt Ion:178 Resp: 3

Ion Ratio Lower Upper

178 100

176 0.0 15.0 22.4#

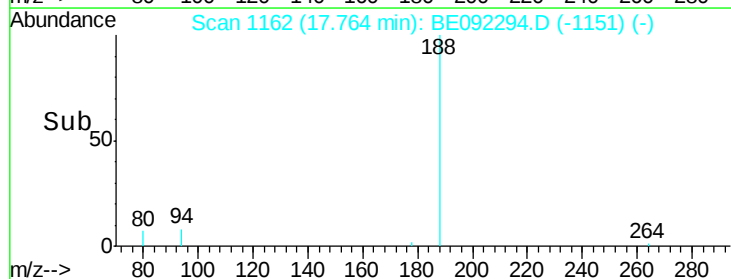
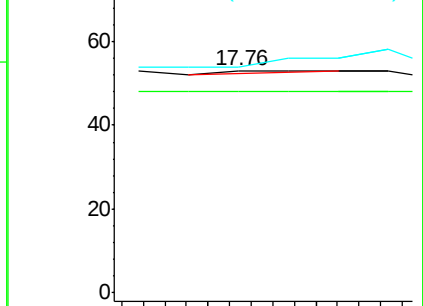
179 0.0 12.0 18.0#

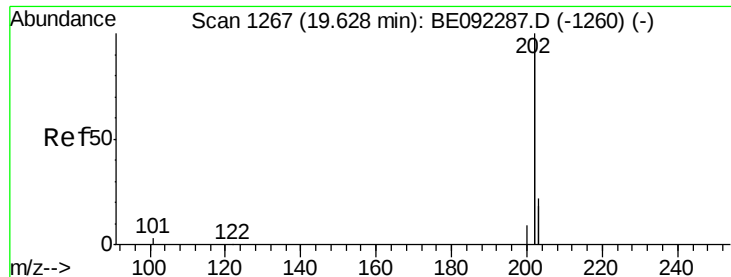


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.00 ng

RT: 19.63 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

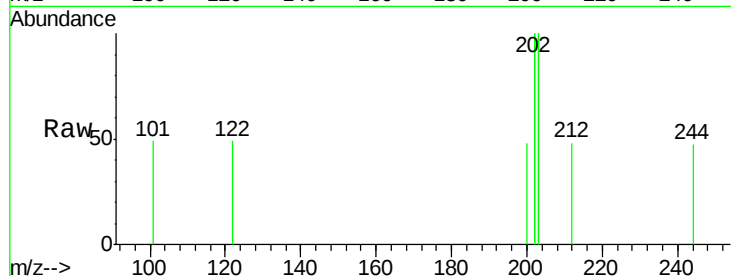
Tgt Ion:202 Resp: 25

Ion Ratio Lower Upper

202 100

101 0.0 2.2 3.4#

203 0.0 13.7 20.5#



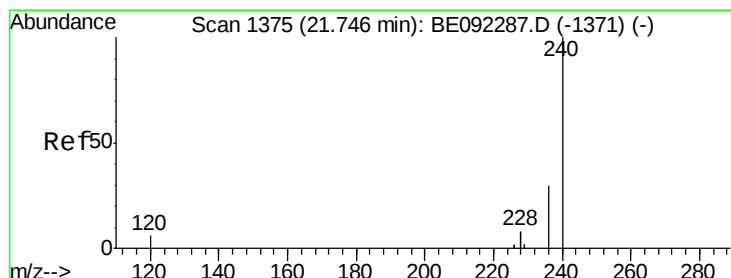
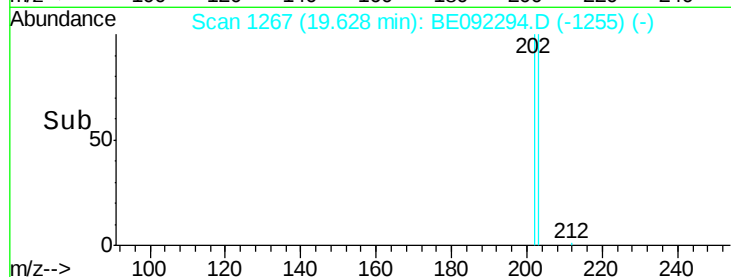
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

19.63

Time-->



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

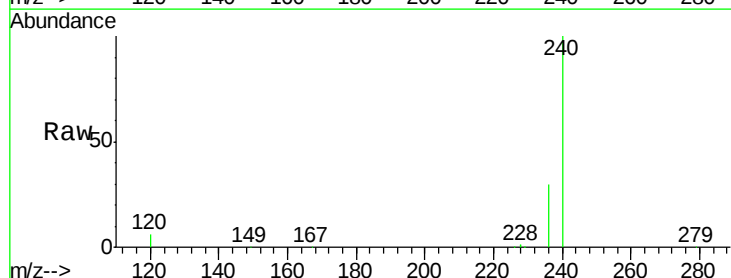
Tgt Ion:240 Resp: 80617

Ion Ratio Lower Upper

240 100

120 5.8 1.2 1.8#

236 30.0 17.1 25.7#



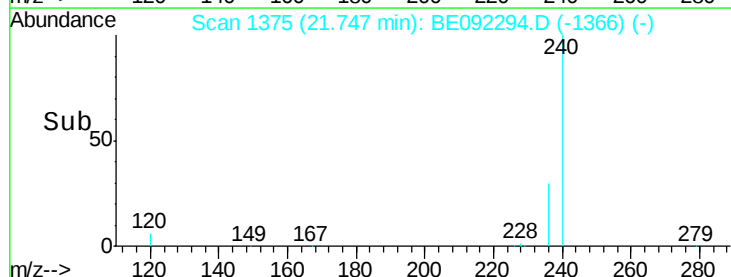
Abundance Ion 240.00 (239.70 to 240.70): E

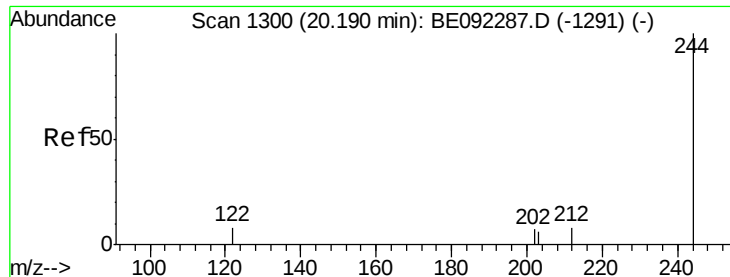
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

21.75

Time-->

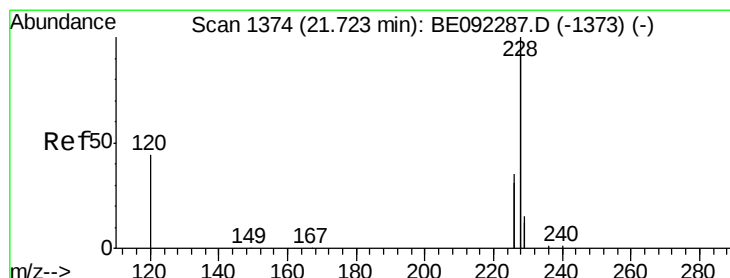
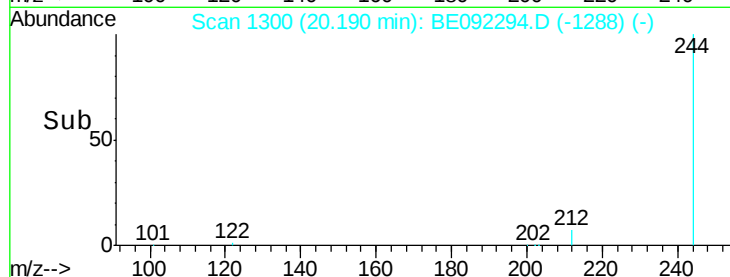
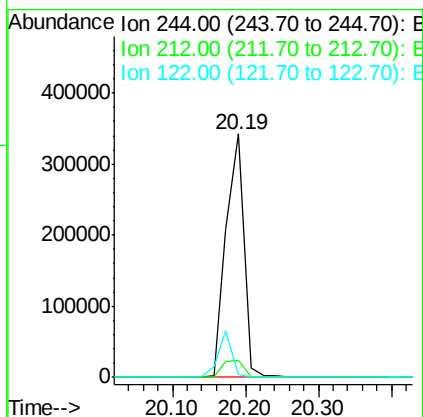
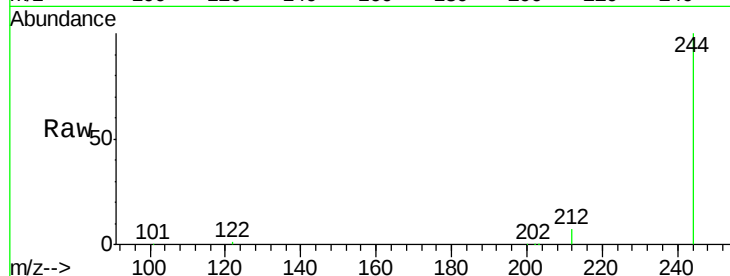




#26
 Terphenyl-d14
 Concen: 53.70 ng
 RT: 20.19 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: BE092294.D
 Acq: 29 Aug 2016 18:19

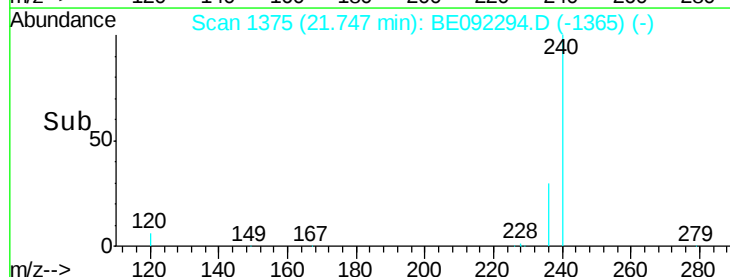
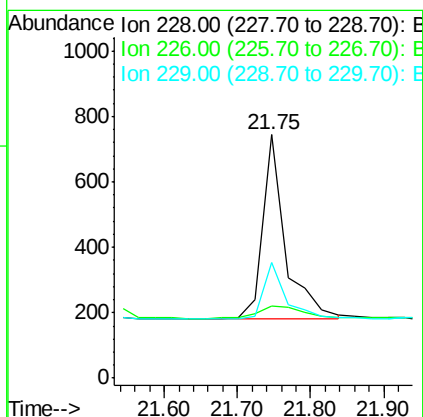
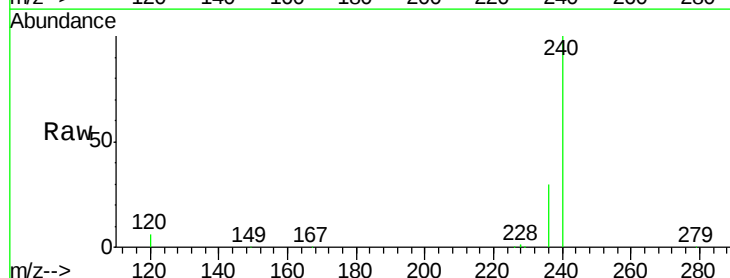
Instrument :
 BNA_E
 ClientSampleId :
 PB93078BL

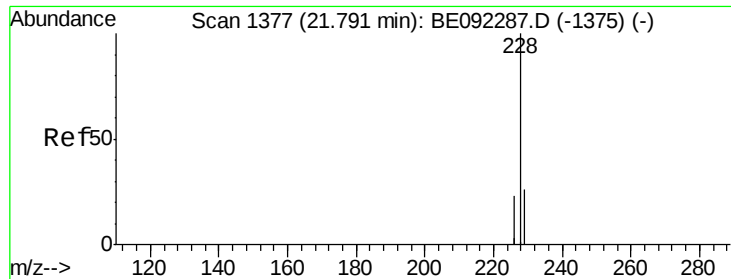
Tgt Ion:244 Resp: 584903
 Ion Ratio Lower Upper
 244 100
 212 7.2 10.2 15.2#
 122 1.1 15.9 23.9#



#27
 Benzo(a)anthracene
 Concen: 0.14 ng
 RT: 21.75 min Scan# 1375
 Delta R.T. 0.02 min
 Lab File: BE092294.D
 Acq: 29 Aug 2016 18:19

Tgt Ion:228 Resp: 1212
 Ion Ratio Lower Upper
 228 100
 226 29.8 15.9 23.9#
 229 47.3 22.4 33.6#





#28

Chrysene

Concen: 0.02 ng

RT: 21.75 min Scan# 1375

Delta R.T. -0.04 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

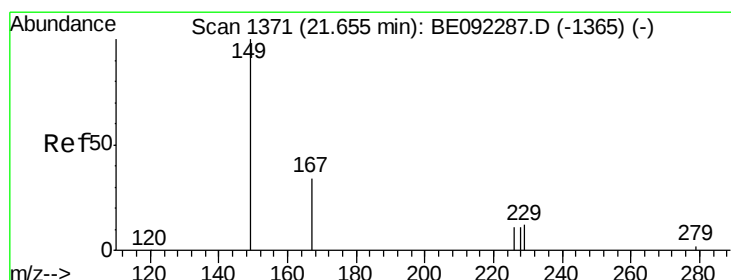
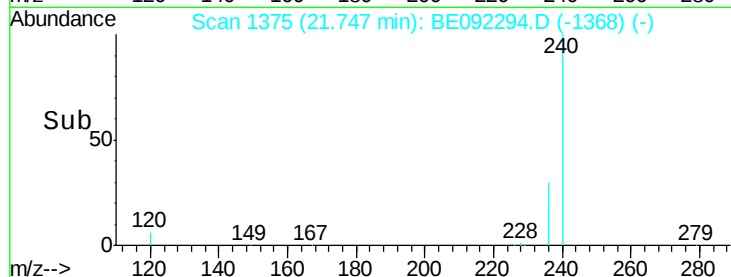
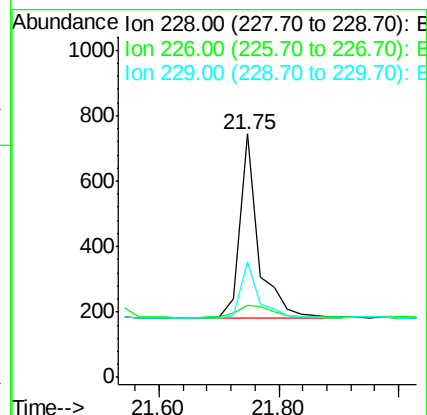
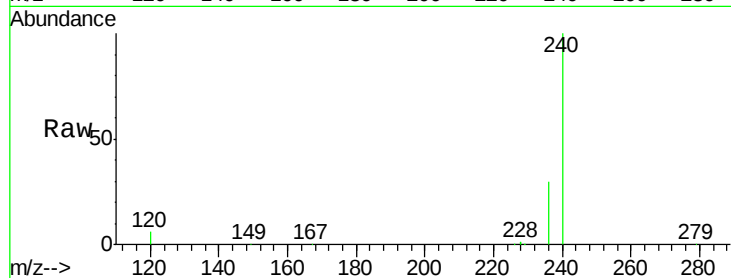
Tgt Ion:228 Resp: 1236

Ion Ratio Lower Upper

228 100

226 29.8 18.3 27.5#

229 47.3 18.6 27.8#



#29

Bis(2-ethylhexyl)phthalate

Concen: 0.02 ng

RT: 21.66 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

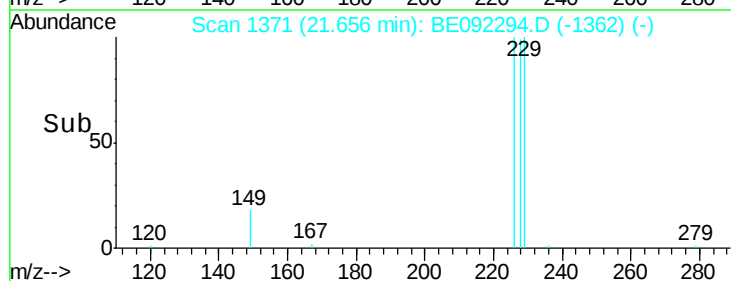
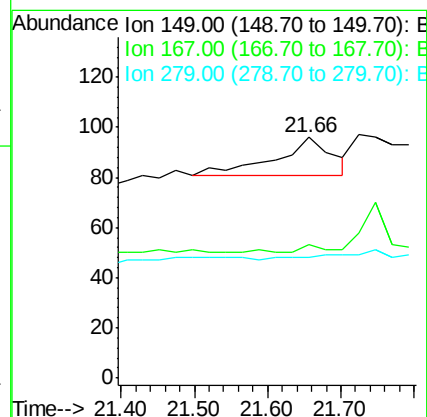
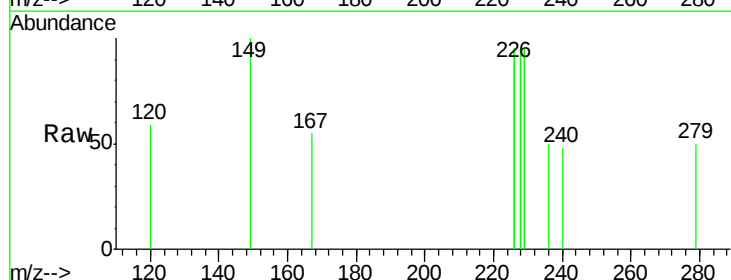
Tgt Ion:149 Resp: 80

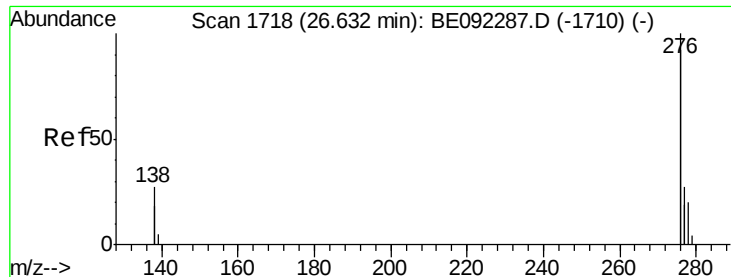
Ion Ratio Lower Upper

149 100

167 0.0 22.1 33.1#

279 0.0 0.0 0.0





#30

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng

RT: 26.60 min Scan# 1716

Delta R.T. -0.03 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL

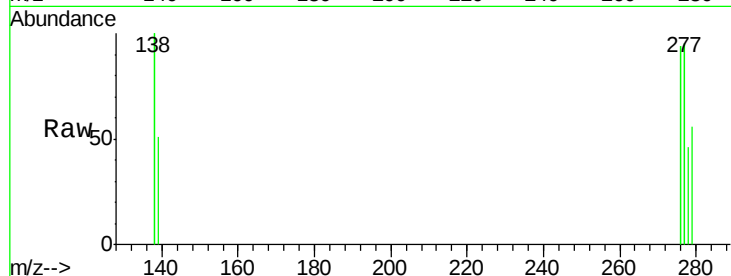
Tgt Ion:276 Resp: 20

Ion Ratio Lower Upper

276 100

138 30.0 21.3 31.9

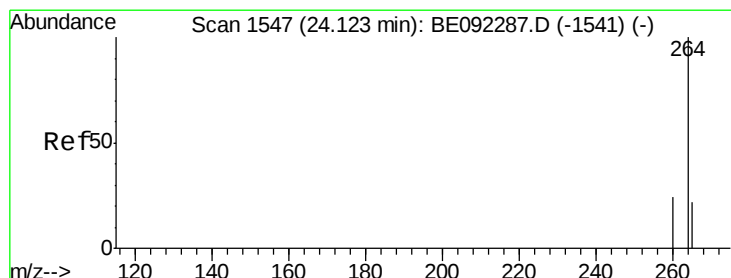
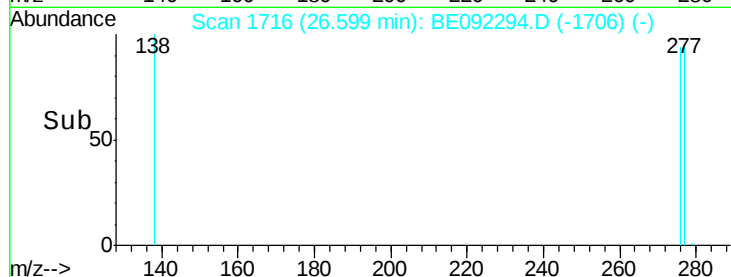
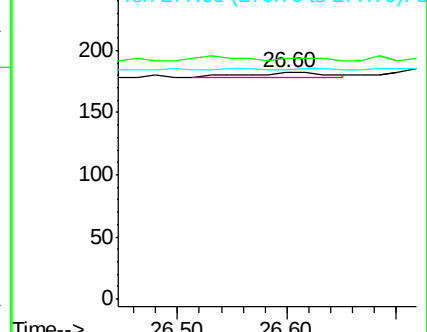
277 20.0 19.7 29.5



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



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.12 min Scan# 1547

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

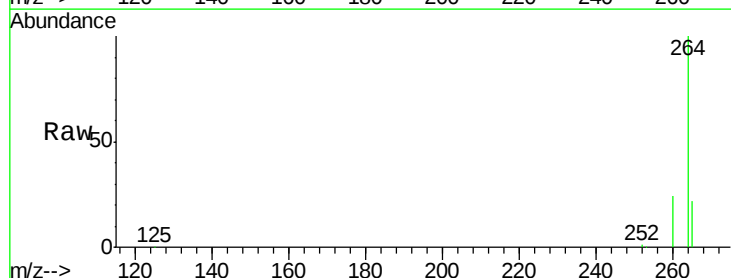
Tgt Ion:264 Resp: 85599

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

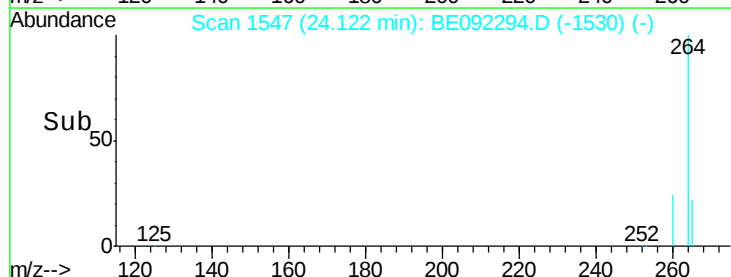
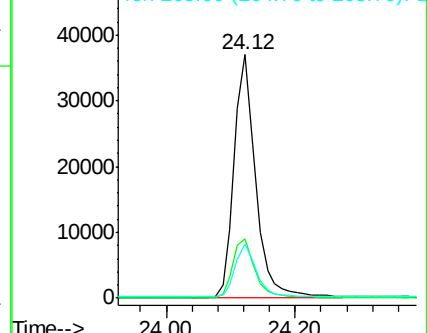
265 22.2 18.2 27.4

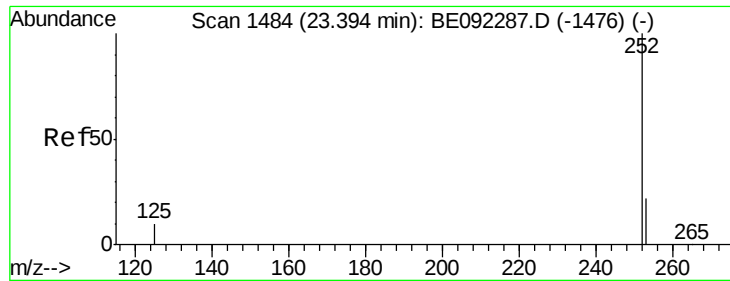


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#32

Benzo(b)fluoranthene

Concen: 0.00 ng

RT: 23.39 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

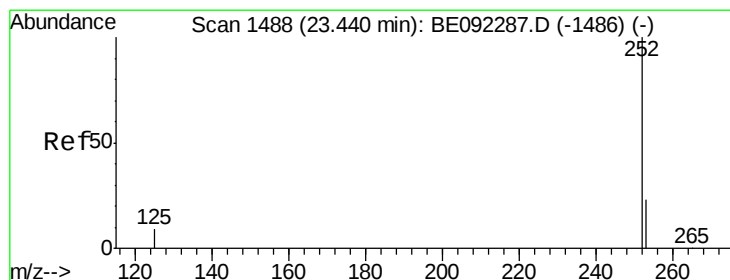
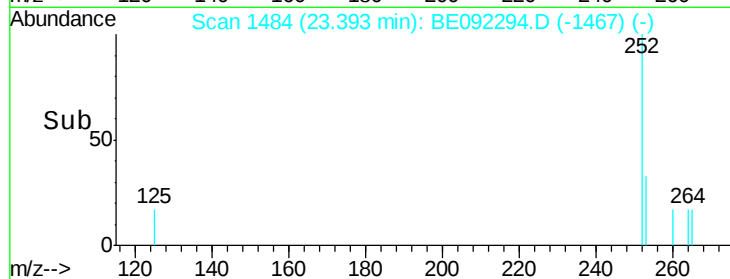
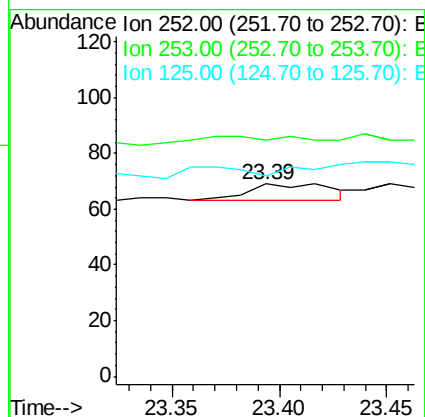
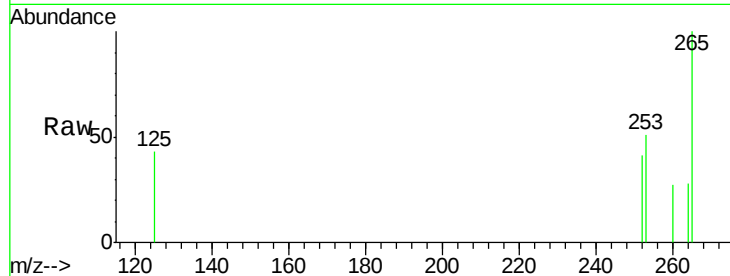
Instrument :

BNA_E

ClientSampleId :

PB93078BL

Tgt Ion:	252	Resp:	17
Ion	Ratio	Lower	Upper
252	100		
253	123.2	19.0	28.4#
125	104.3	10.3	15.5#



#33

Benzo(k)fluoranthene

Concen: 0.00 ng

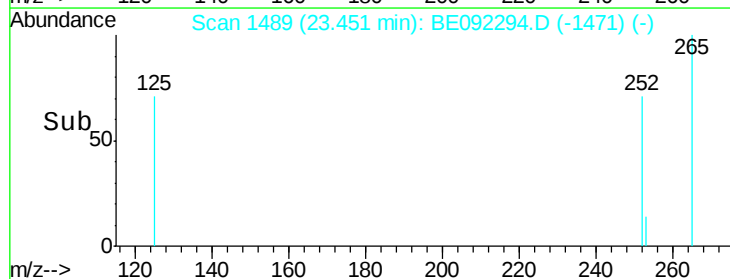
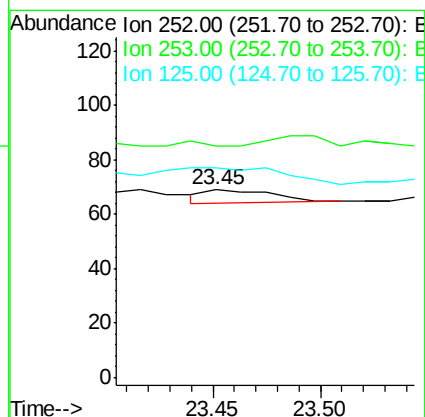
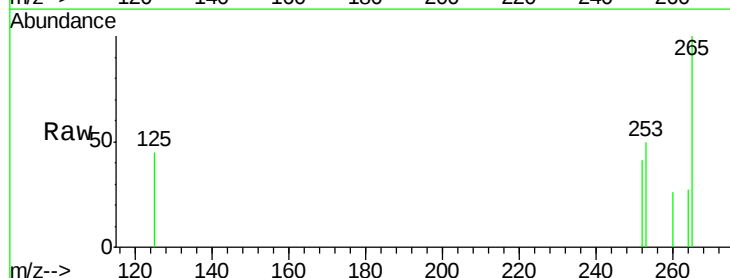
RT: 23.45 min Scan# 1489

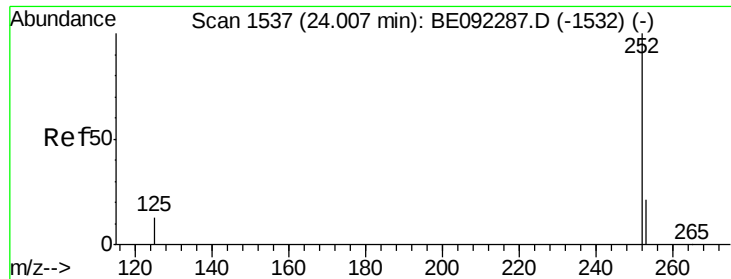
Delta R.T. 0.01 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Tgt Ion:	252	Resp:	10
Ion	Ratio	Lower	Upper
252	100		
253	123.2	19.0	28.6#
125	111.6	10.6	15.8#





#34

Benzo(a)pyrene

Concen: 0.00 ng

RT: 24.01 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Instrument :

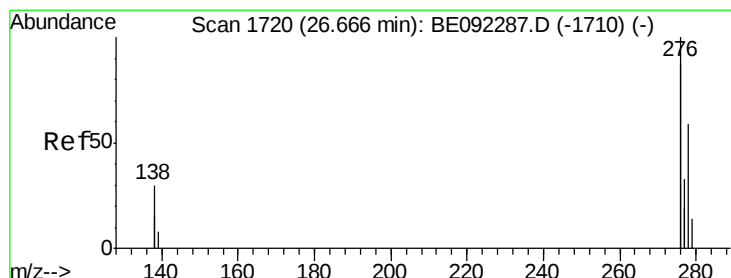
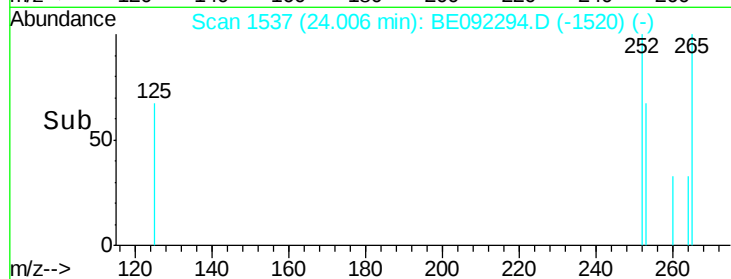
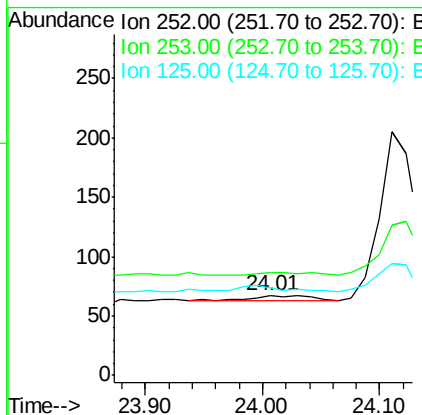
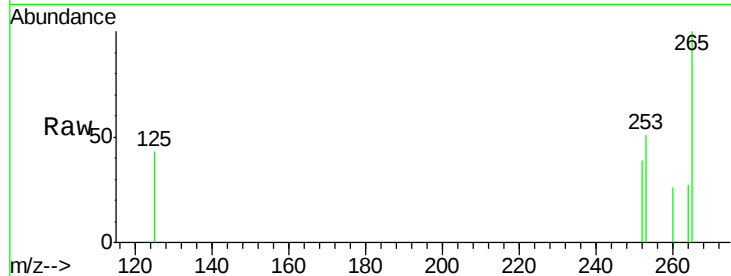
BNA_E

ClientSampleId :

PB93078BL

Tgt Ion: 252 Resp: 14

Ion	Ratio	Lower	Upper
252	100		
253	129.9	20.3	30.5#
125	110.4	11.8	17.6#



#35

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.55 min Scan# 1713

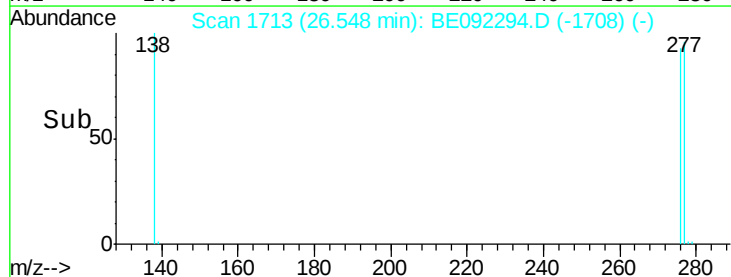
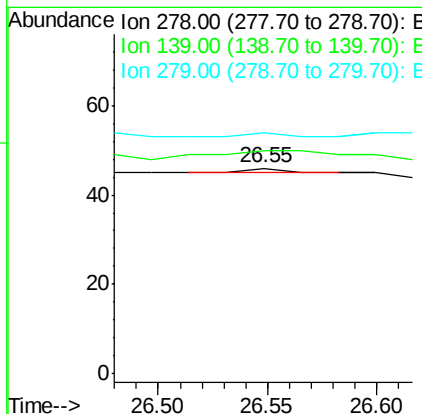
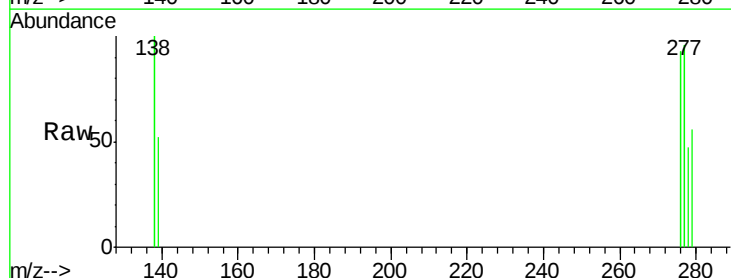
Delta R.T. -0.12 min

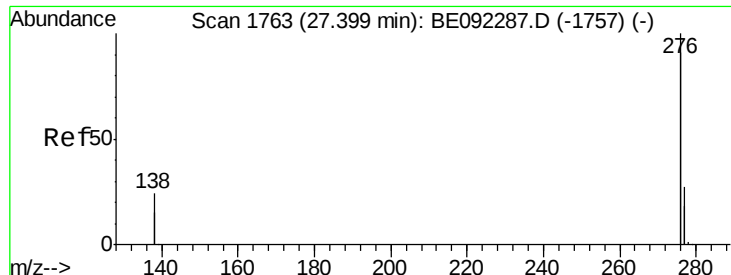
Lab File: BE092294.D

Acq: 29 Aug 2016 18:19

Tgt Ion: 278 Resp: 1

Ion	Ratio	Lower	Upper
278	100		
139	108.7	16.2	24.2#
279	117.4	21.4	32.2#





#36

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.49 min Scan# 1768

Delta R.T. 0.09 min

Lab File: BE092294.D

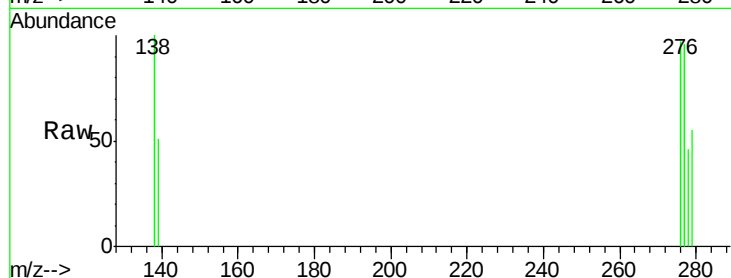
Acq: 29 Aug 2016 18:19

Instrument :

BNA_E

ClientSampleId :

PB93078BL



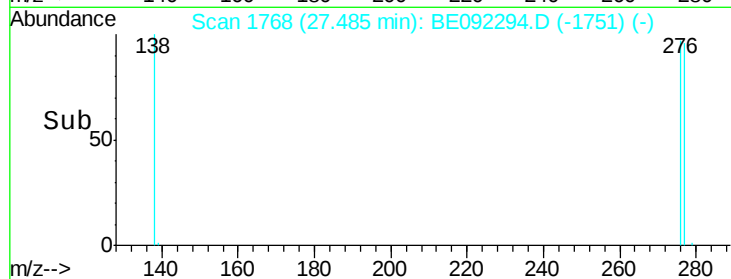
Tgt Ion: 276 Resp: 74

Ion Ratio Lower Upper

276 100

277 98.9 21.4 32.2#

138 103.2 19.4 29.2#



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

27.49

27.40 27.60

