

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092316\
 Data File : BE092418.D
 Acq On : 23 Sep 2016 16:45
 Operator : UM/SJ
 Sample : H4803-05DL 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

Quant Time: Sep 23 18:47:35 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	11148	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	52457	5.00	ng	0.00
12) Acenaphthene-d10	14.81	164	35924	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	78236	5.00	ng	0.02
24) Chrysene-d12	21.75	240	106791	5.00	ng	0.00
31) Perylene-d12	24.12	264	93067	5.00	ng	0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.66	112	24999	9.48	ng	-0.02
5) Phenol-d6	7.34	99	33646	8.95	ng	-0.02
8) Nitrobenzene-d5	9.34	82	21877	5.78	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	11621	9.10	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	59428	6.99	ng	-0.01
26) Terphenyl-d14	20.17	244	88701	6.70	ng	0.00

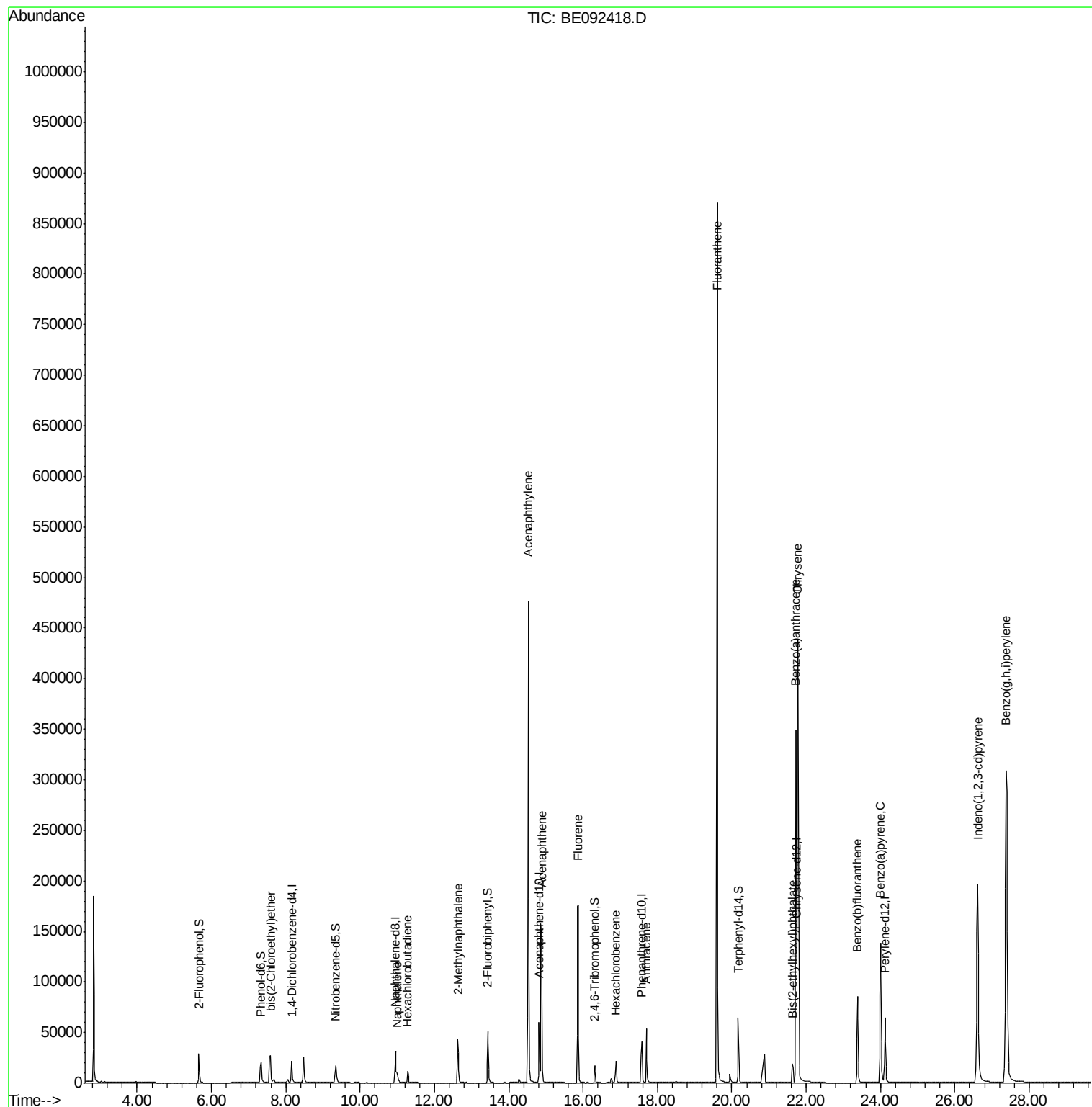
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.59	93	34242	11.48	ng	# 27
9) Naphthalene	10.99	128	16025	1.41	ng	# 96
10) Hexachlorobutadiene	11.28	225	10183	5.70	ng	99
11) 2-Methylnaphthalene	12.62	142	40092	5.33	ng	94
15) Acenaphthylene	14.52	152	645309	12.40	ng	100
16) Acenaphthene	14.88	154	41762	5.13	ng	92
17) Fluorene	15.87	166	135231	13.09	ng	100
19) Hexachlorobenzene	16.89	284	22951	6.85	ng	# 65
22) Anthracene	17.69	178	84464	4.89	ng	99
23) Fluoranthene	19.61	202	1101332	12.89	ng	99
27) Benzo(a)anthracene	21.72	228	354900m	3.41	ng	
28) Chrysene	21.77	228	594318m	6.24	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	34983	3.90	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.61	276	438554	4.34	ng	95
32) Benzo(b)fluoranthene	23.38	252	122822	5.45	ng	95
34) Benzo(a)pyrene	24.01	252	223690	10.13	ng	# 94
36) Benzo(a,h,i)perylene	27.38	276	771655	8.87	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

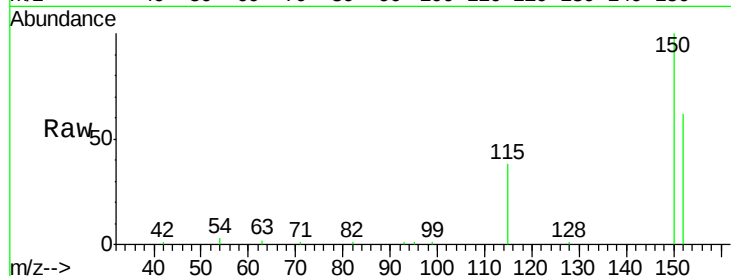
Tot Ion:152 Resp: 11148

Ion Ratio Lower Upper

152 100

150 160.9 106.0 159.0#

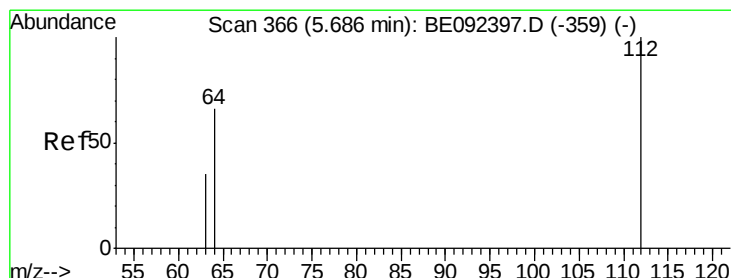
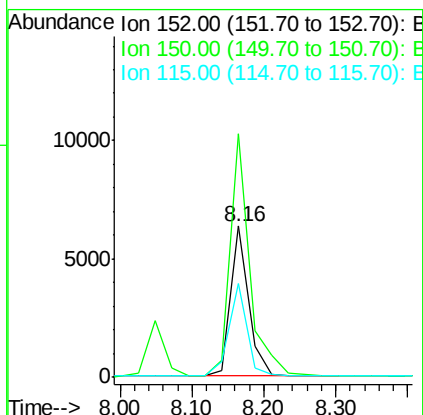
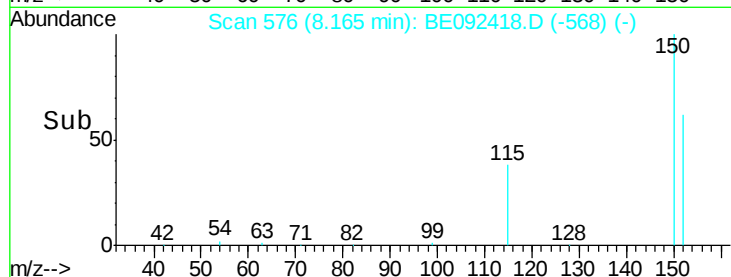
115 61.9 31.2 46.8#



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: 9.48 ng

RT: 5.66 min Scan# 362

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

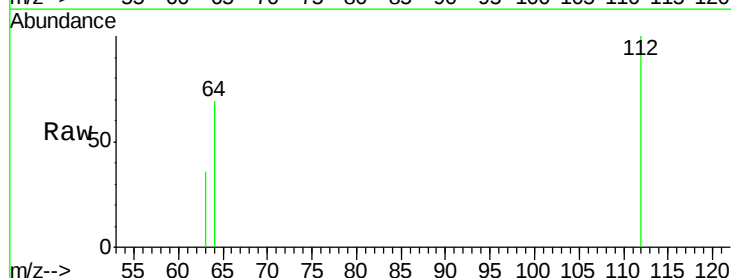
Tgt Ion:112 Resp: 24999

Ion Ratio Lower Upper

112 100

64 67.1 53.5 80.3

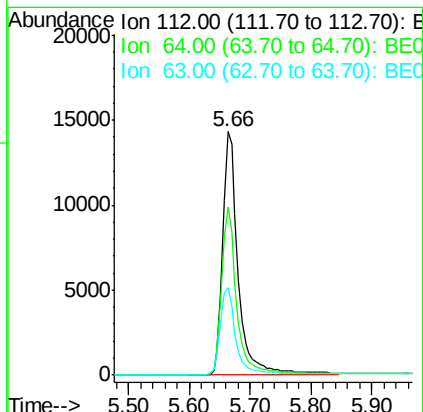
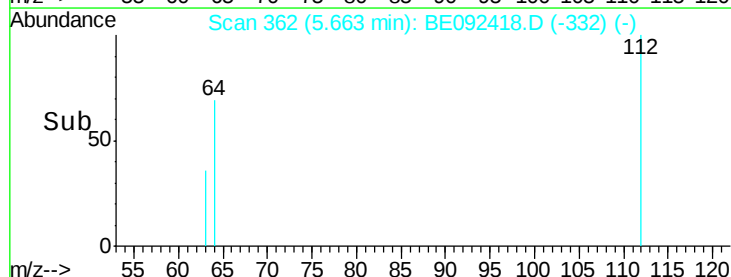
63 35.7 27.9 41.9

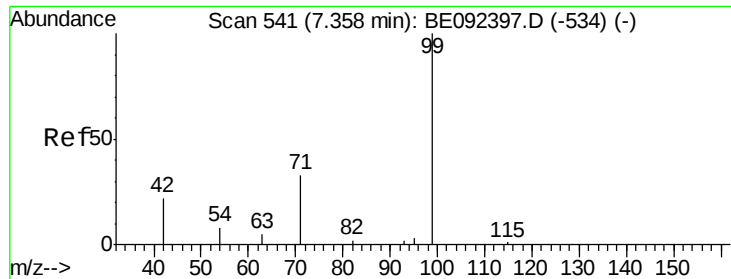


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 8.95 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

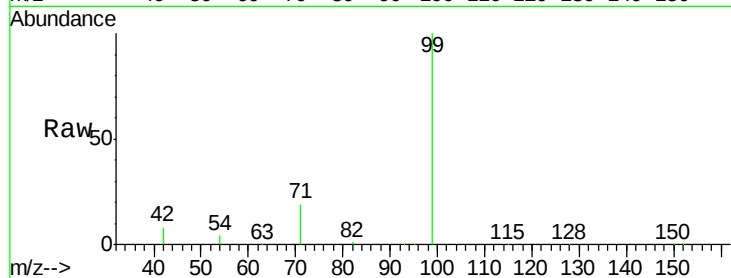
Tot Ion: 99 Resp: 33646

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

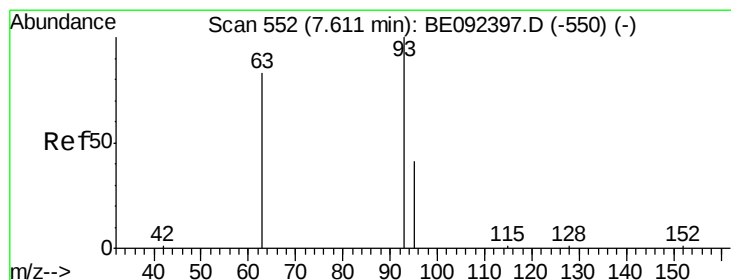
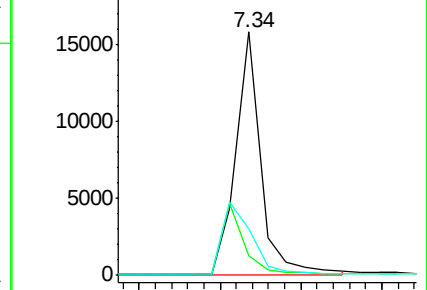
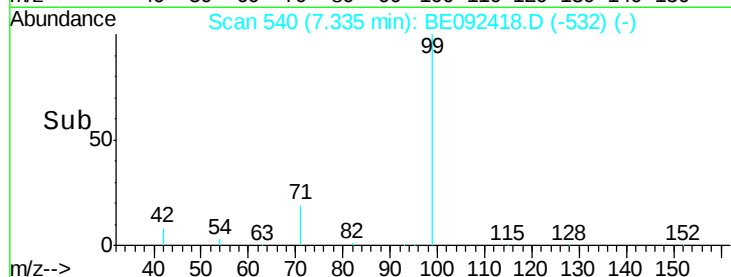
71 0.0 30.6 45.8#



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: 11.48 ng

RT: 7.59 min Scan# 551

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

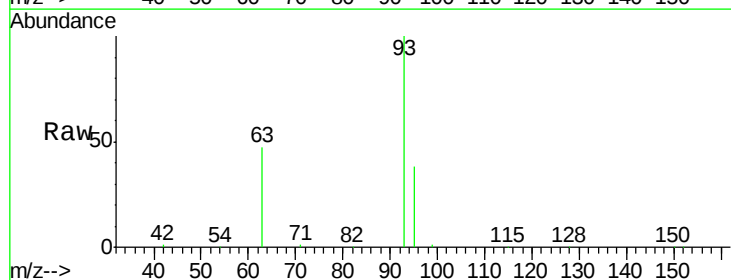
Tgt Ion: 93 Resp: 34242

Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

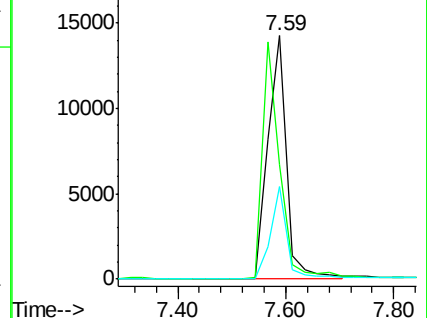
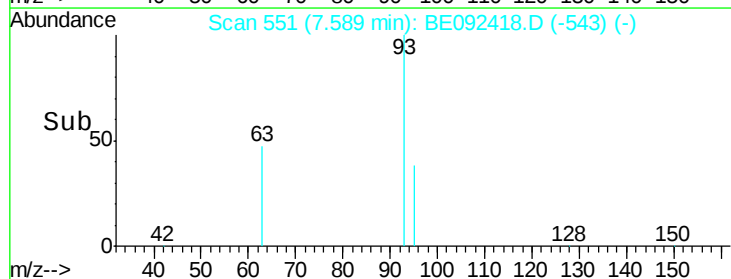
95 33.1 24.0 36.0

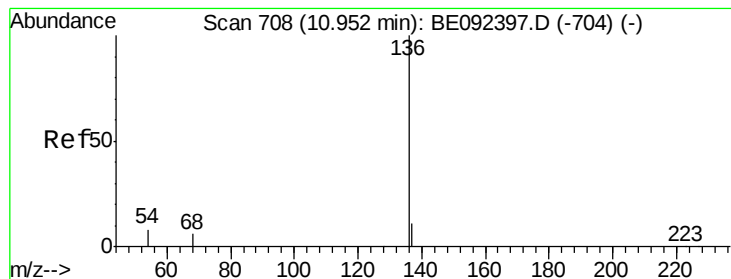


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

Tot Ion:136 Resp: 52457

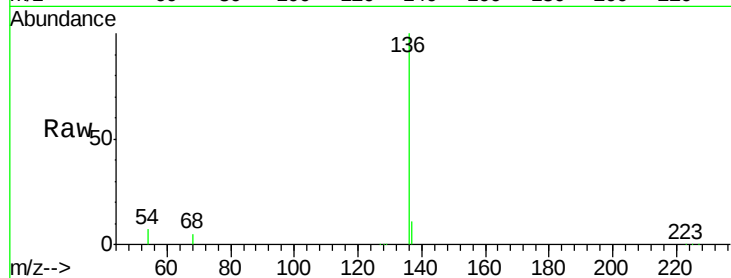
Ion Ratio Lower Upper

136 100

137 11.3 8.2 12.4

54 7.1 9.6 14.4#

68 5.4 6.7 10.1#

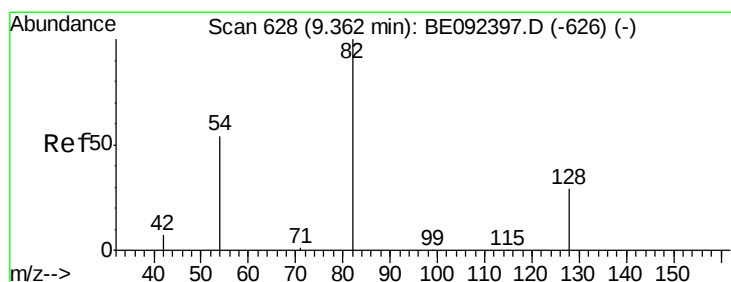
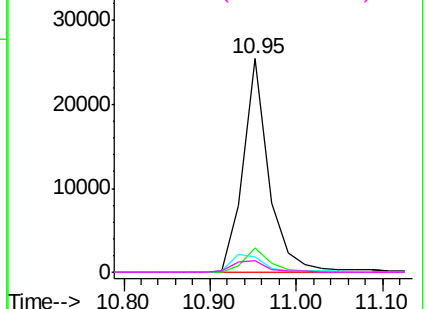
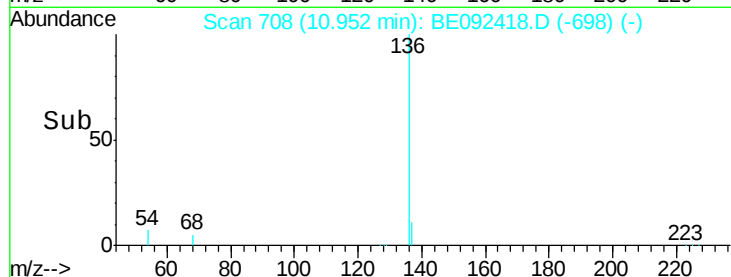


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 5.78 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

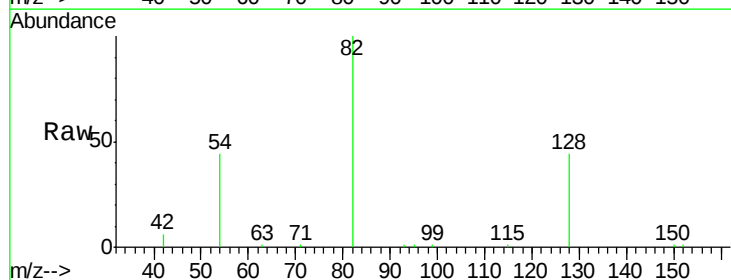
Tgt Ion: 82 Resp: 21877

Ion Ratio Lower Upper

82 100

128 44.1 39.0 58.4

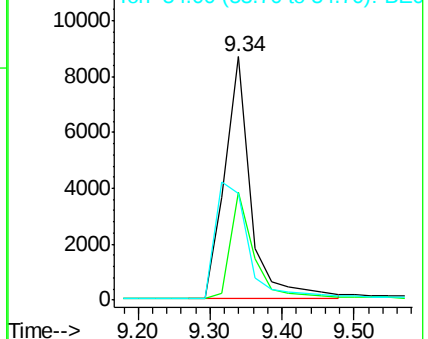
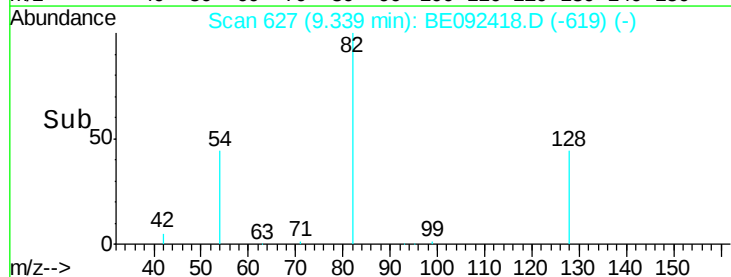
54 44.0 44.8 67.2#

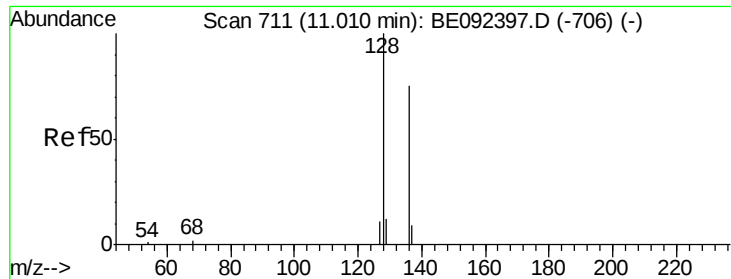


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 1.41 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

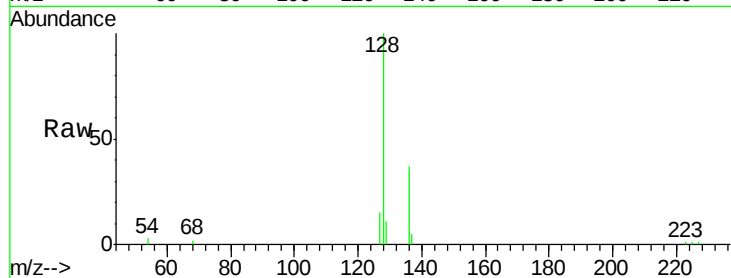
Tot Ion:128 Resp: 16025

Ion Ratio Lower Upper

128 100

129 10.9 11.2 16.8#

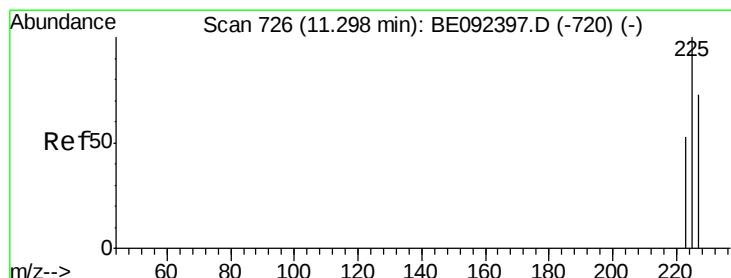
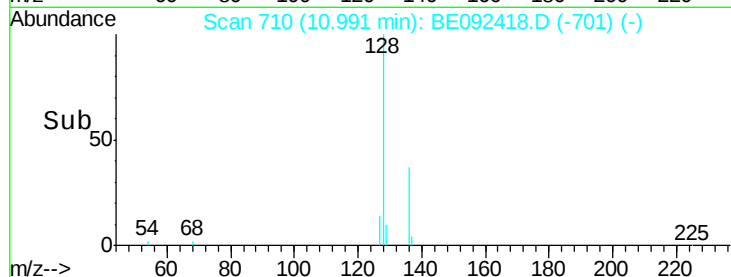
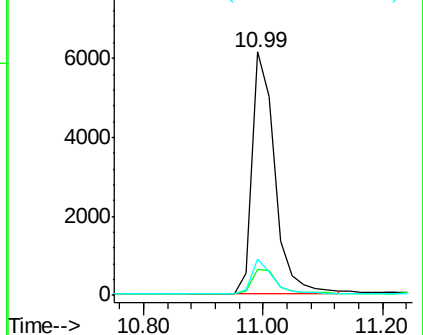
127 14.7 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 5.70 ng

RT: 11.28 min Scan# 725

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

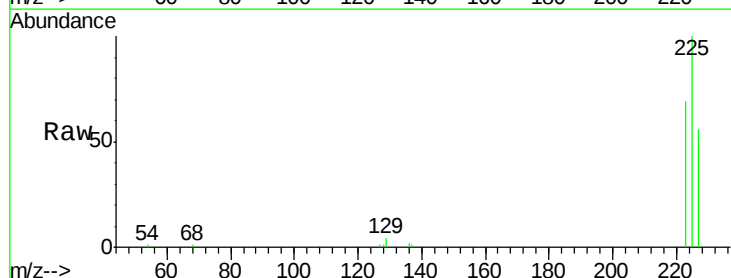
Tgt Ion:225 Resp: 10183

Ion Ratio Lower Upper

225 100

223 63.1 50.6 76.0

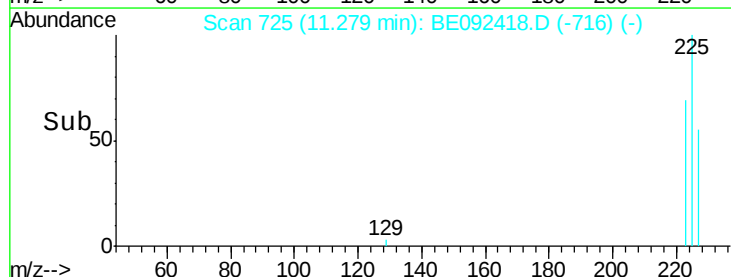
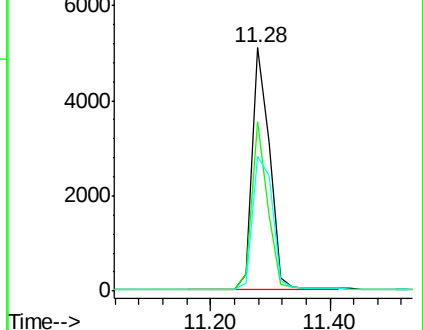
227 63.3 51.4 77.0

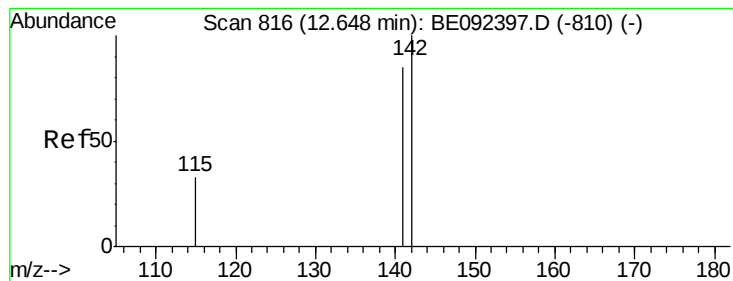


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene

Concen: 5.33 ng

RT: 12.62 min Scan# 814

Delta R.T. -0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

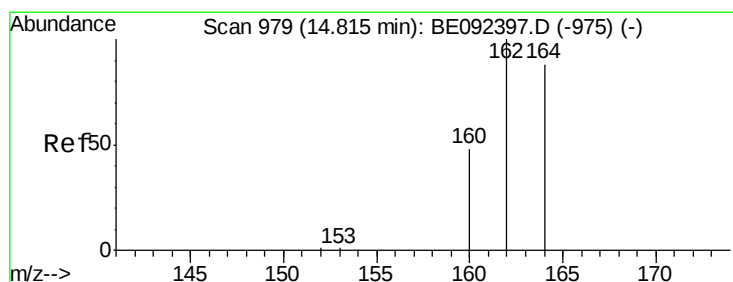
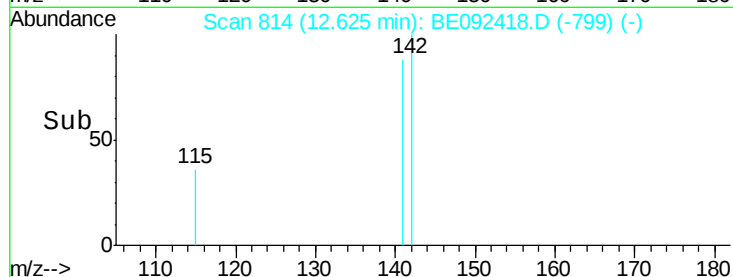
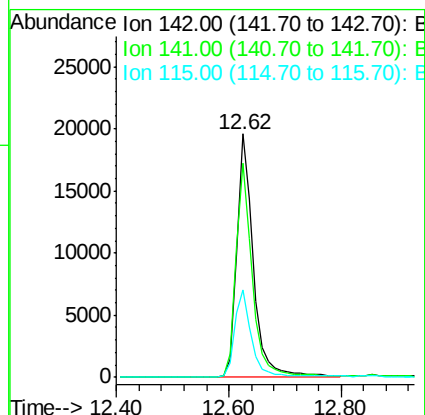
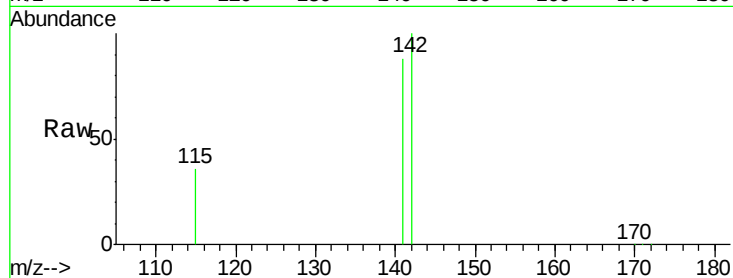
Tot Ion:142 Resp: 40092

Ion Ratio Lower Upper

142 100

141 88.0 73.7 110.5

115 35.8 34.0 51.0



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.81 min Scan# 979

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

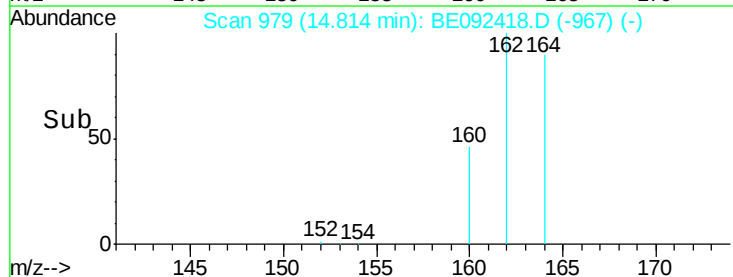
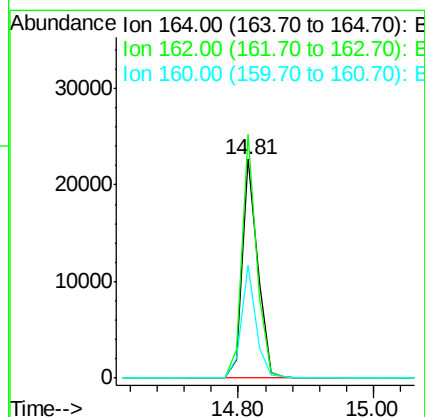
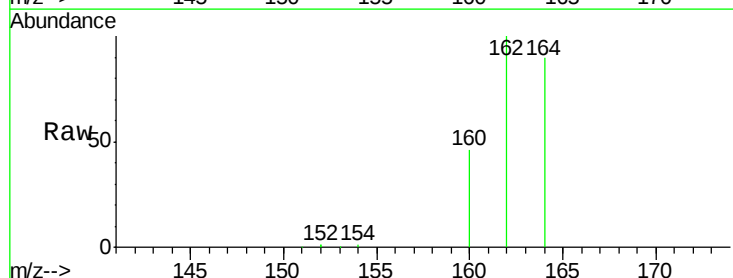
Tgt Ion:164 Resp: 35924

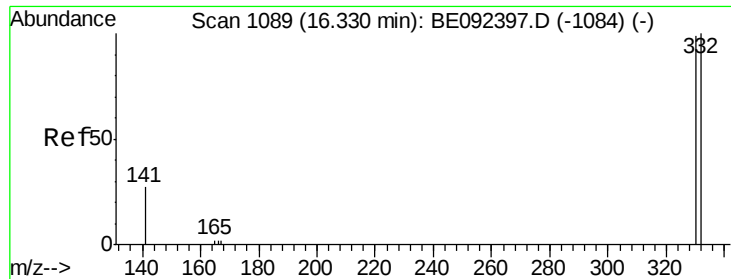
Ion Ratio Lower Upper

164 100

162 111.3 71.4 107.0#

160 51.4 27.4 41.2#

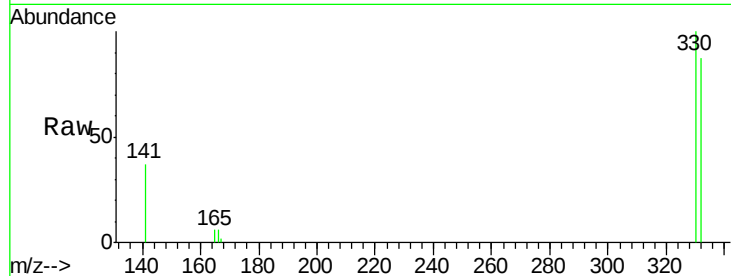




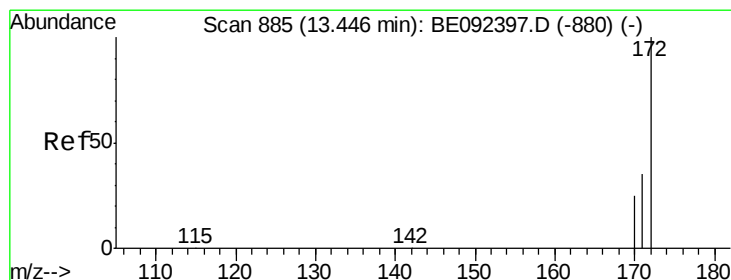
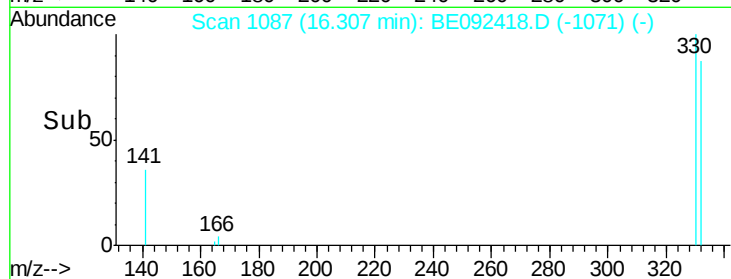
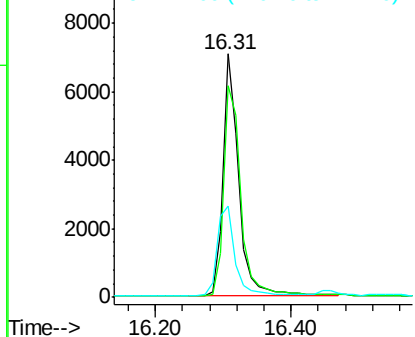
#13
 2,4,6-Tribromophenol
 Concen: 9.10 ng
 RT: 16.31 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: BE092418.D
 Acq: 23 Sep 2016 16:45

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

Tot Ion:330 Resp: 11621
 Ion Ratio Lower Upper
 330 100
 332 95.7 75.4 113.0
 141 41.3 31.0 46.6

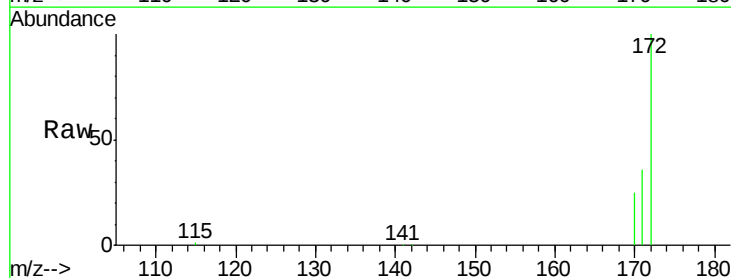


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

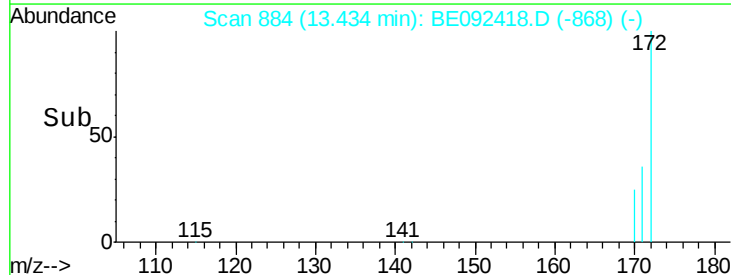
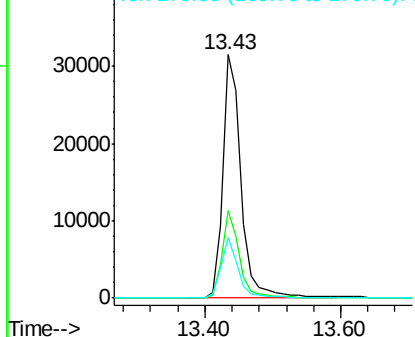


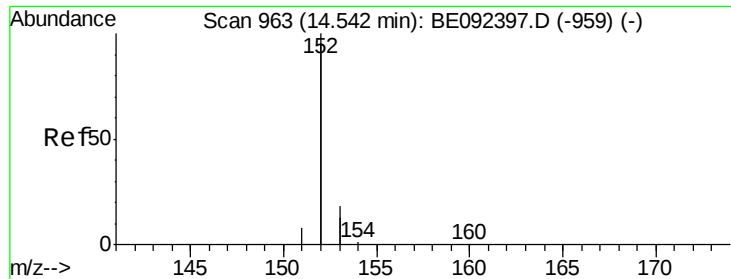
#14
 2-Fluorobiphenyl
 Concen: 6.99 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092418.D
 Acq: 23 Sep 2016 16:45

Tgt Ion:172 Resp: 59428
 Ion Ratio Lower Upper
 172 100
 171 35.8 30.1 45.1
 170 24.7 21.8 32.6



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: 12.40 ng

RT: 14.52 min Scan# 962

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

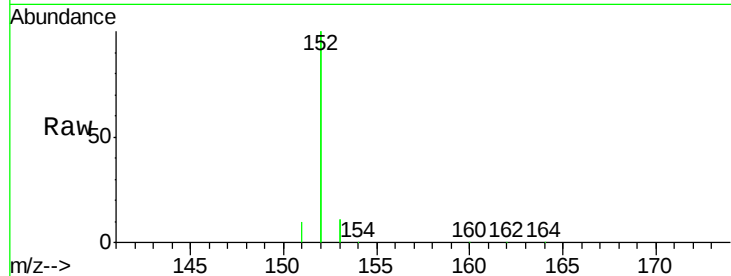
Tot Ion:152 Resp: 645309

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

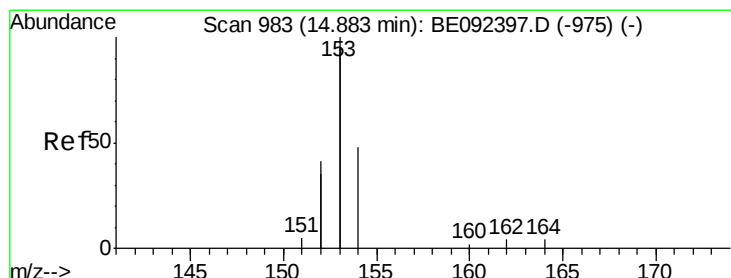
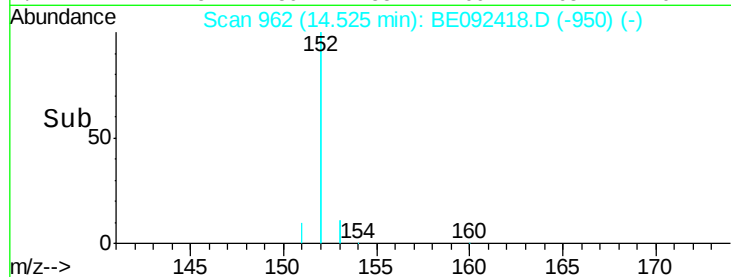
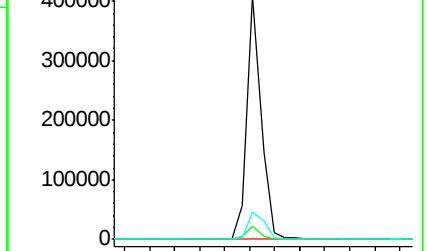
153 13.1 10.4 15.6



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: 5.13 ng

RT: 14.88 min Scan# 983

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

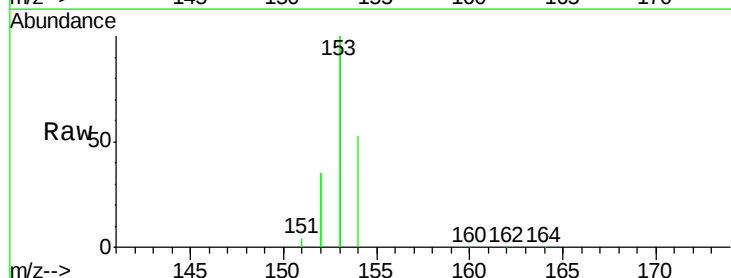
Tgt Ion:154 Resp: 41762

Ion Ratio Lower Upper

154 100

153 458.2 350.8 526.2

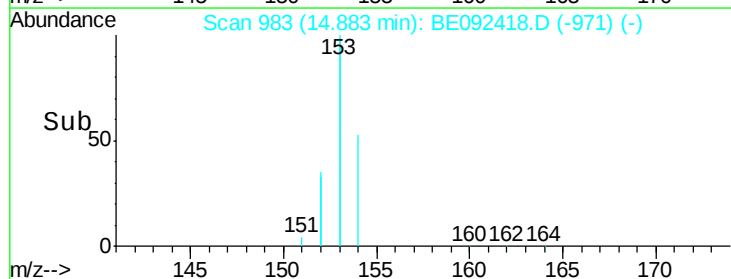
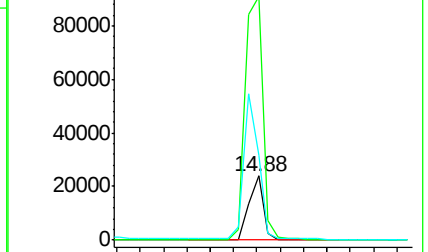
152 228.1 171.1 256.7

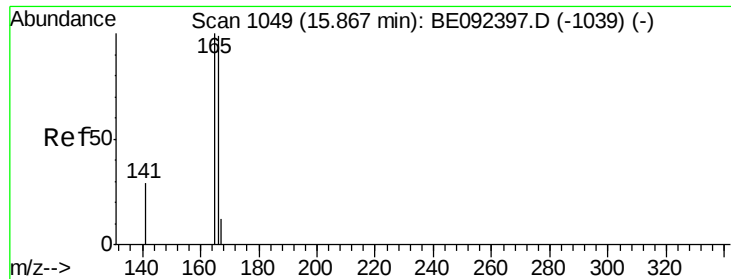


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#17

Fluorene

Concen: 13.09 ng

RT: 15.87 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

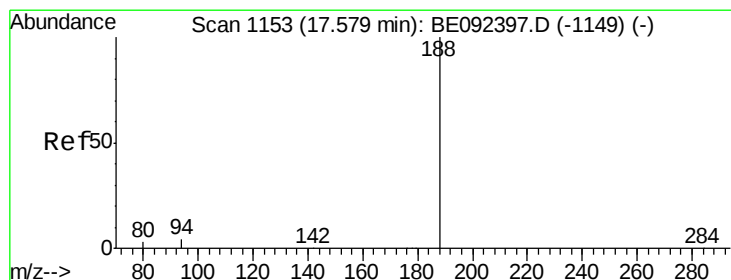
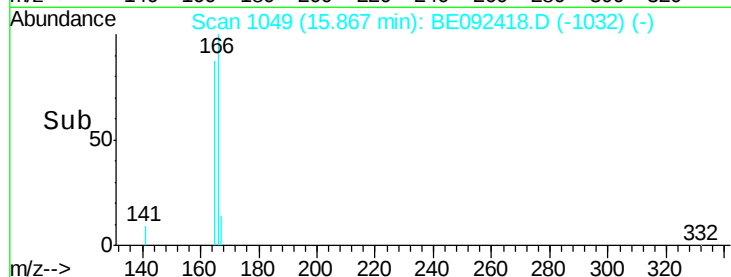
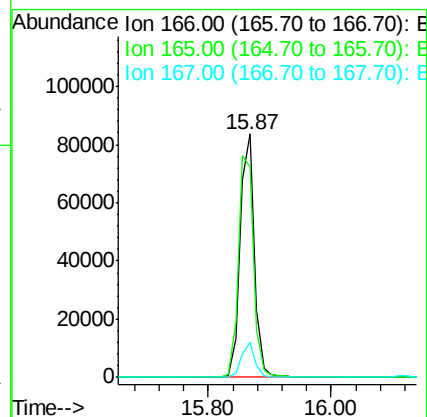
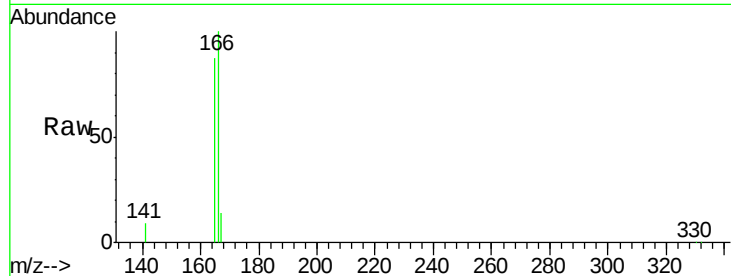
Tot Ion:166 Resp: 135231

Ion Ratio Lower Upper

166 100

165 97.7 78.2 117.4

167 13.5 11.0 16.4



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1153

Delta R.T. 0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

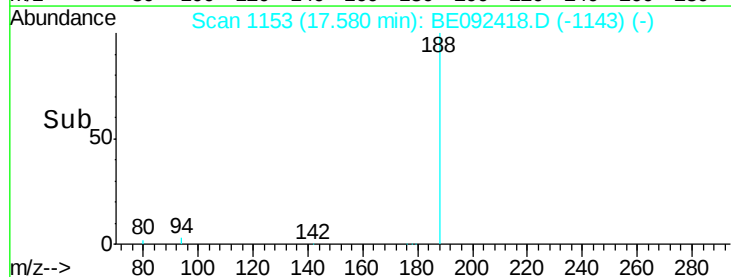
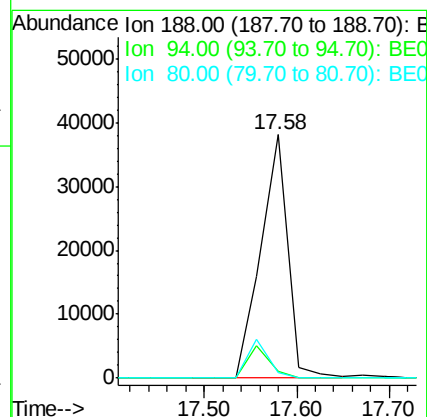
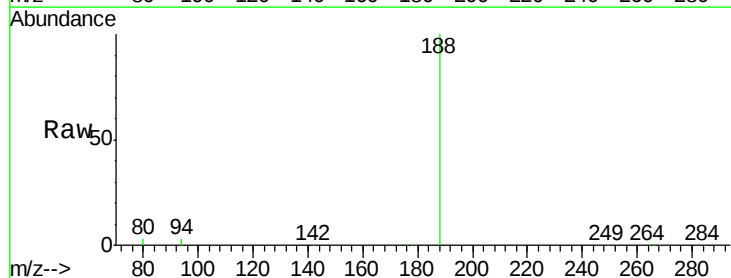
Tgt Ion:188 Resp: 78236

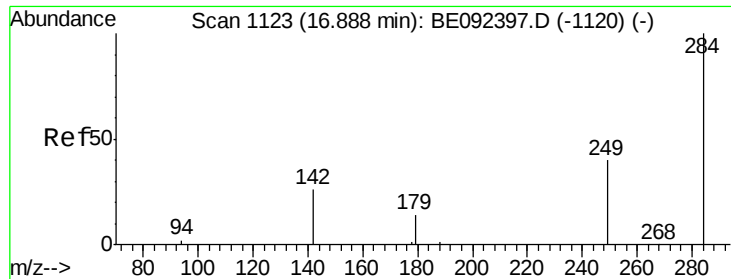
Ion Ratio Lower Upper

188 100

94 3.0 3.2 4.8#

80 2.5 2.6 3.8#

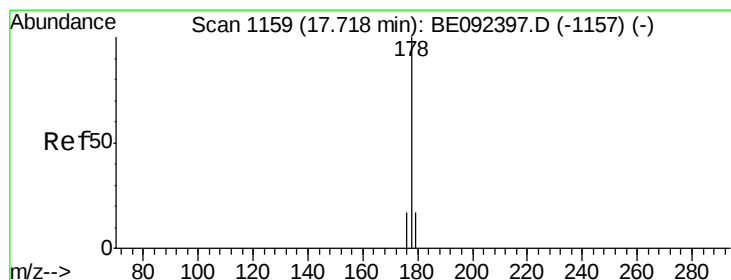
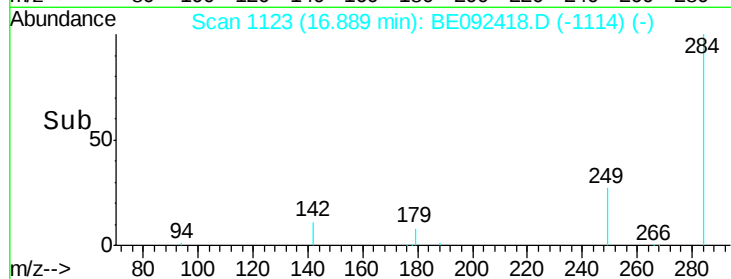
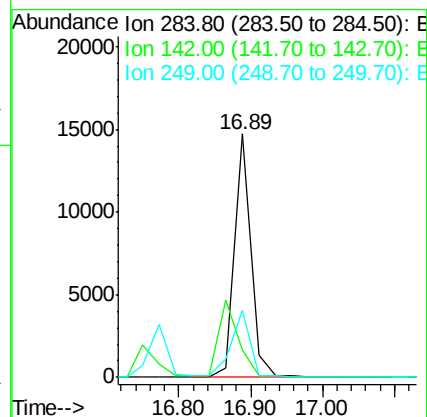
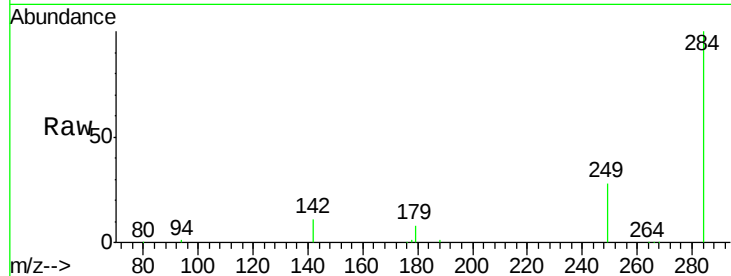




#19
Hexachlorobenzene
Concen: 6.85 ng
RT: 16.89 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE092418.D
Acq: 23 Sep 2016 16:45

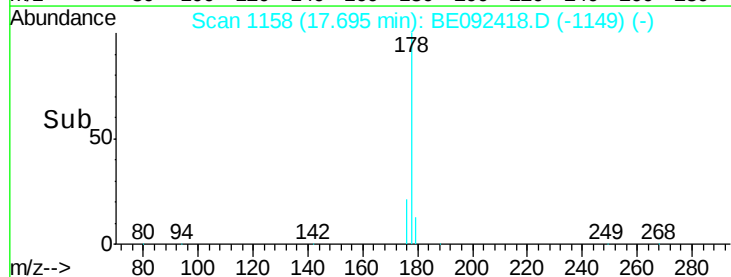
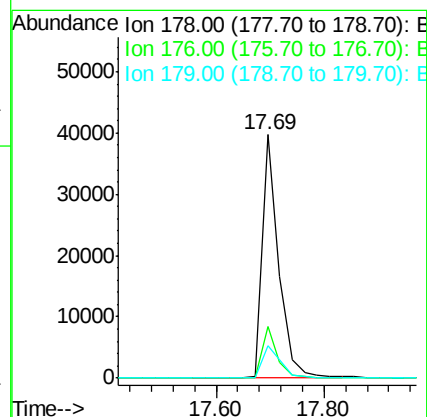
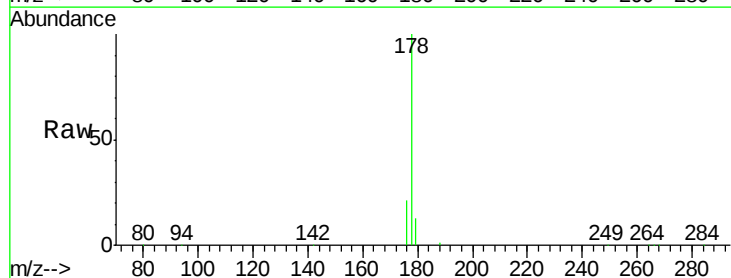
Instrument :
BNA_E
ClientSampleId :
PT-BN-WPDL

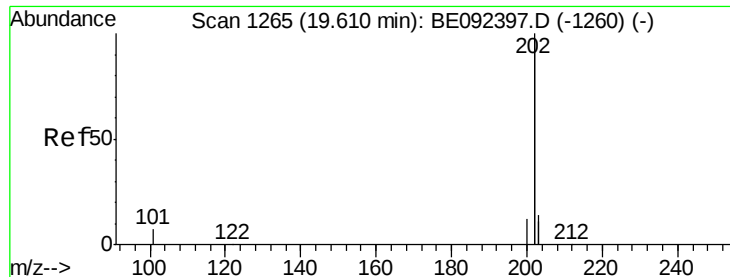
Tot Ion:284 Resp: 22951
Ion Ratio Lower Upper
284 100
142 0.0 29.1 43.7#
249 31.0 27.9 41.9



#22
Anthracene
Concen: 4.89 ng
RT: 17.69 min Scan# 1158
Delta R.T. -0.00 min
Lab File: BE092418.D
Acq: 23 Sep 2016 16:45

Tgt Ion:178 Resp: 84464
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.4
179 14.8 12.2 18.2





#23

Fluoranthene

Concen: 12.89 ng

RT: 19.61 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

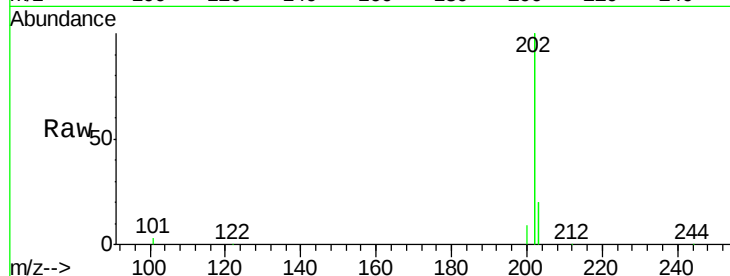
Tot Ion:202 Resp: 1101332

Ion Ratio Lower Upper

202 100

101 3.0 2.2 3.4

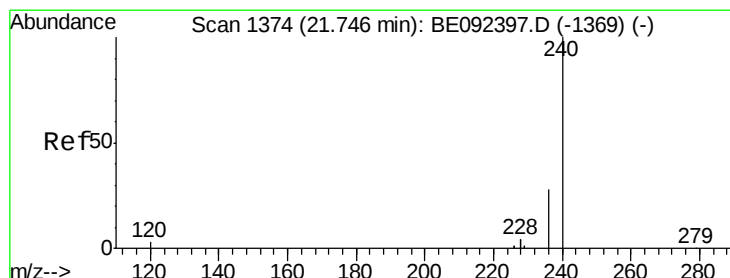
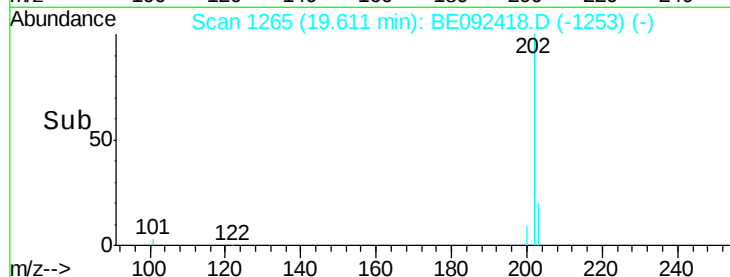
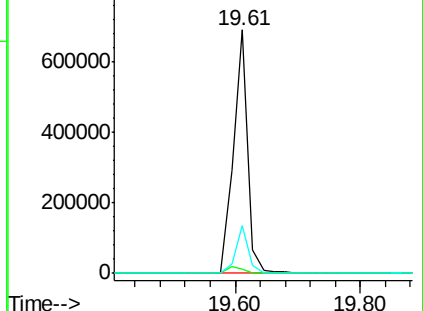
203 17.8 13.7 20.5



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

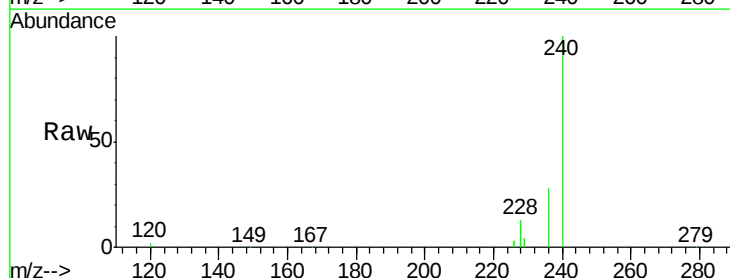
Tgt Ion:240 Resp: 106791

Ion Ratio Lower Upper

240 100

120 2.4 2.6 4.0#

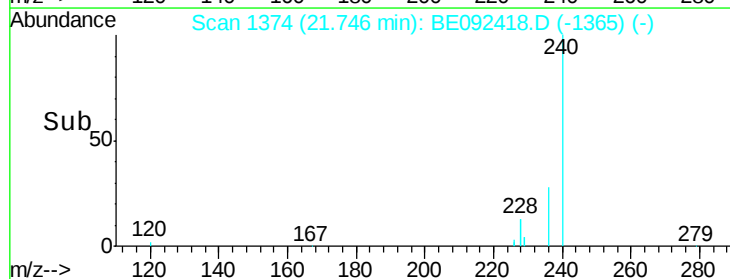
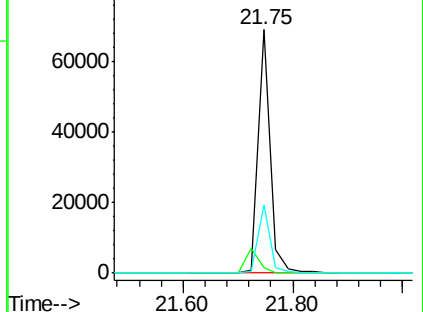
236 27.9 24.6 37.0

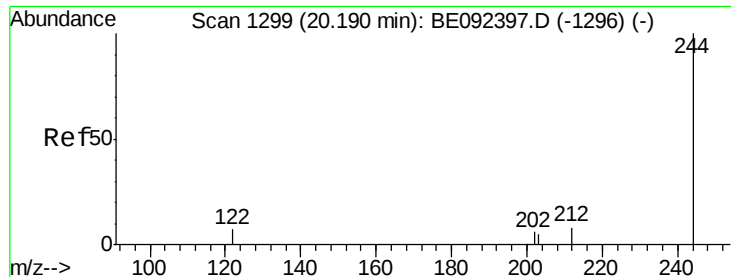


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#26

Terphenyl-d14

Concen: 6.70 ng

RT: 20.17 min Scan# 1298

Delta R.T. 0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

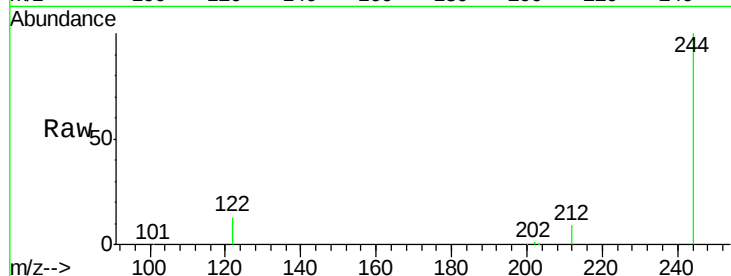
Tot Ion:244 Resp: 88701

Ion Ratio Lower Upper

244 100

212 9.5 6.7 10.1

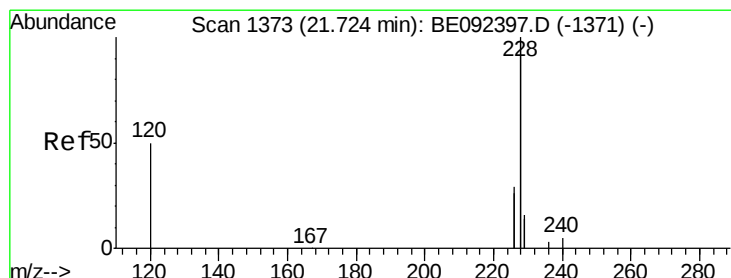
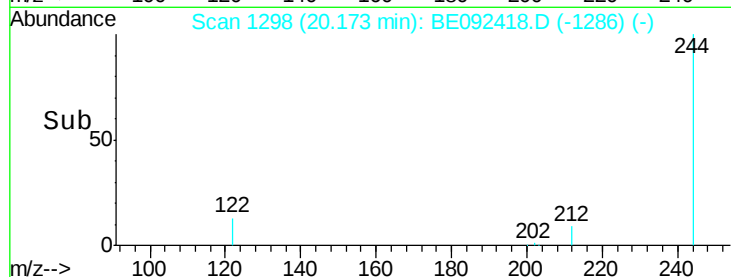
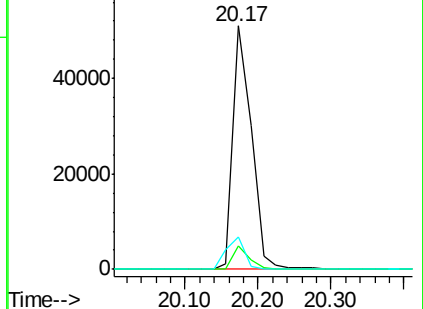
122 13.2 3.6 5.4#



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



#27

Benzo(a)anthracene

Concen: 3.41 ng m

RT: 21.72 min Scan# 1373

Delta R.T. -0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

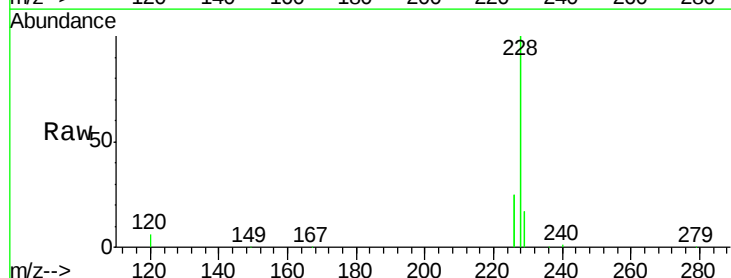
Tgt Ion:228 Resp: 354900

Ion Ratio Lower Upper

228 100

226 25.3 23.6 35.4

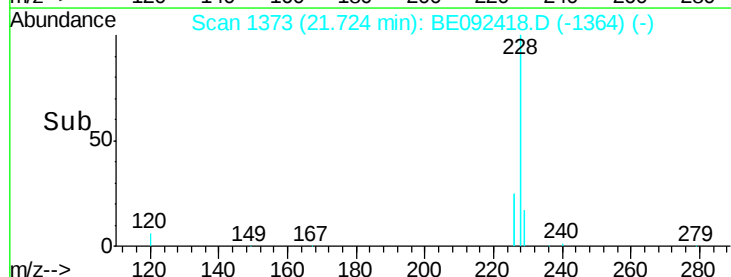
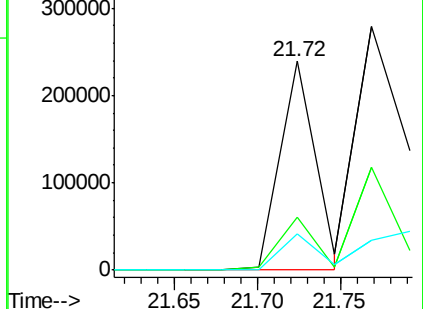
229 17.1 13.3 19.9

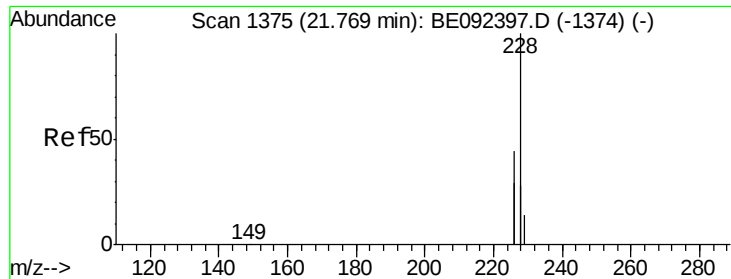


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#28

Chrvsene

Concen: 6.24 ng/mL

RT: 21.77 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

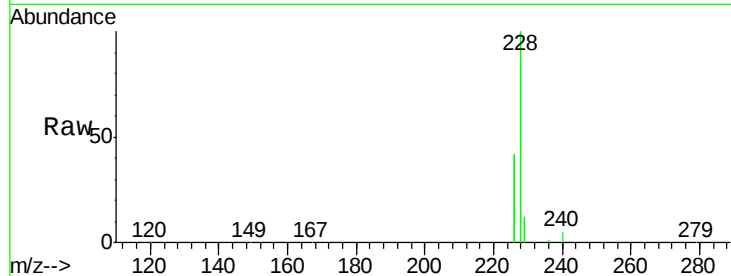
Tot Ion: 228 Resp: 594318

Ion Ratio Lower Upper

228 100

226 42.1 36.3 54.5

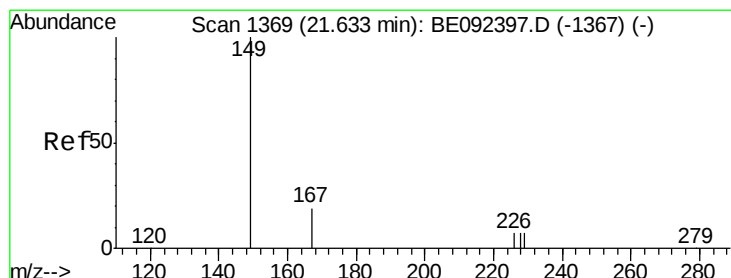
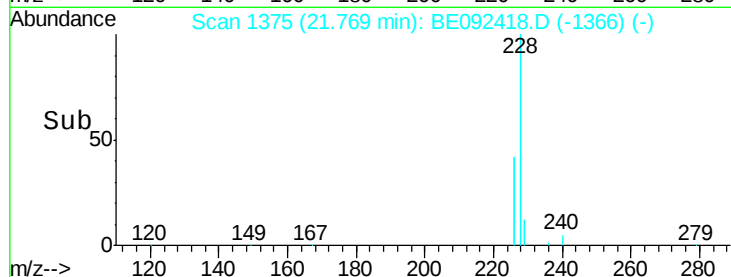
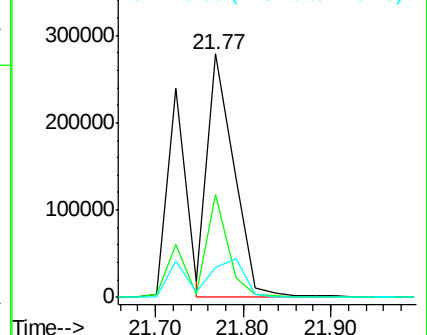
229 12.1 10.6 16.0



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



#29

Bis(2-ethylhexyl)phthalate

Concen: 3.90 ng/mL

RT: 21.63 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

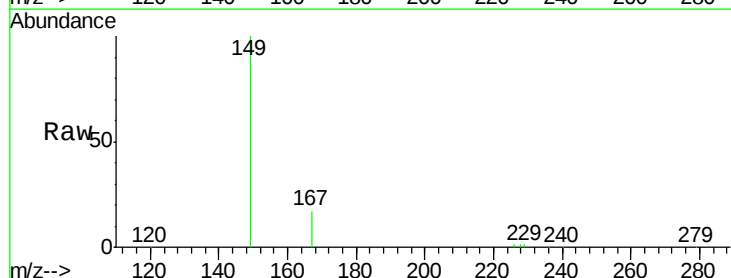
Tgt Ion: 149 Resp: 34983

Ion Ratio Lower Upper

149 100

167 0.0 16.0 24.0#

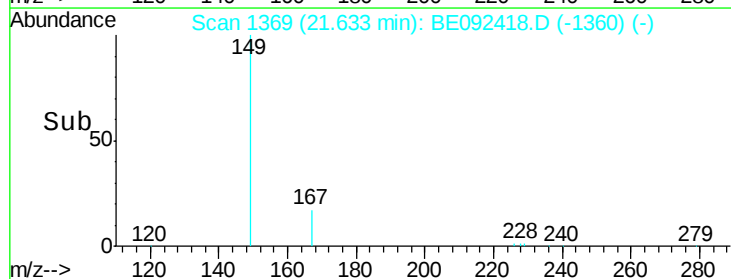
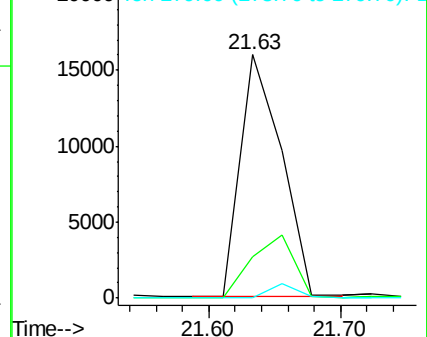
279 0.0 16.0 24.0#

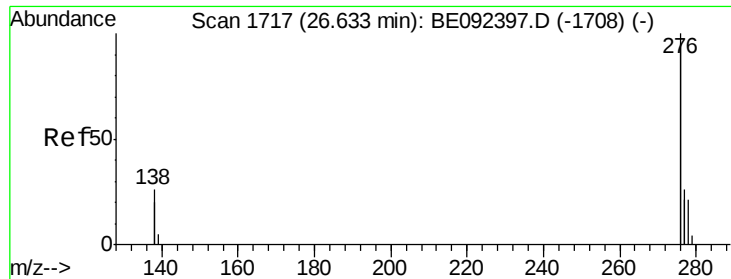


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Indeno(1,2,3-cd)pyrene

Concen: 4.34 ng

RT: 26.61 min Scan# 1716

Delta R.T. 0.03 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

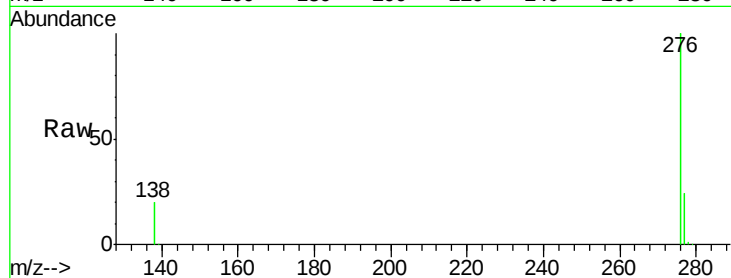
Tot Ion:276 Resp: 438554

Ion Ratio Lower Upper

276 100

138 21.3 20.3 30.5

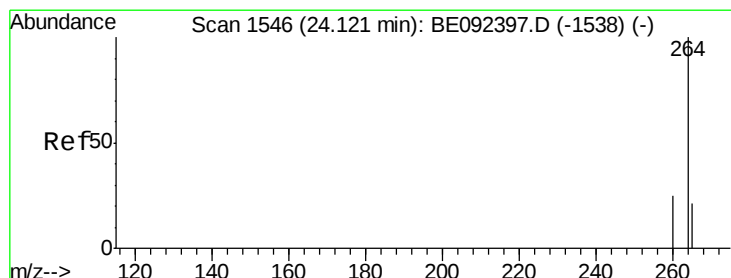
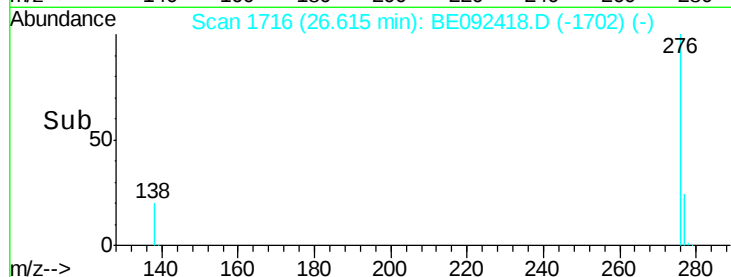
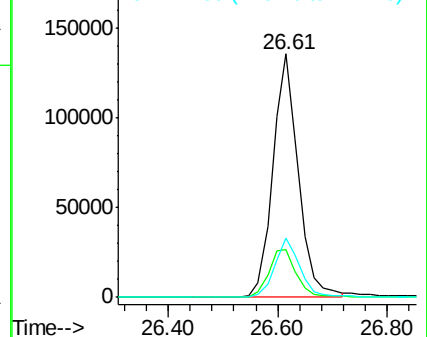
277 23.8 19.7 29.5



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# 1546

Delta R.T. 0.03 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

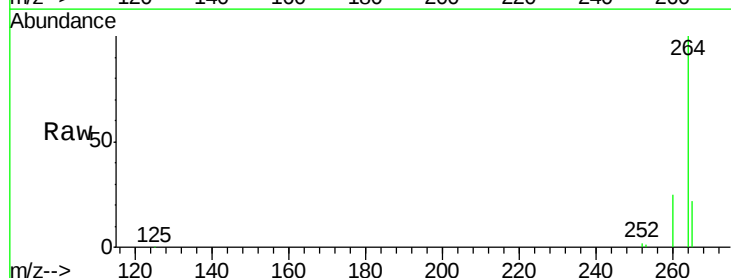
Tgt Ion:264 Resp: 93067

Ion Ratio Lower Upper

264 100

260 25.0 20.1 30.1

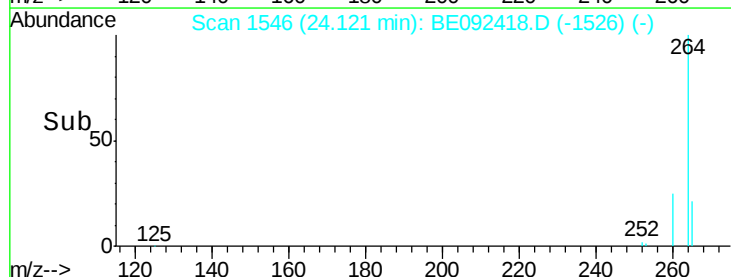
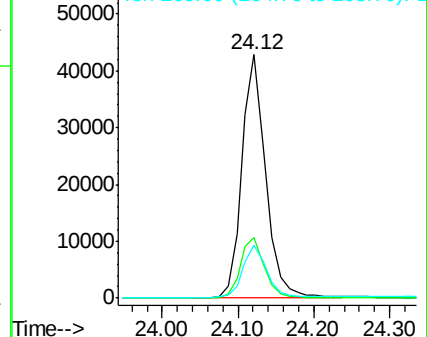
265 21.8 17.9 26.9

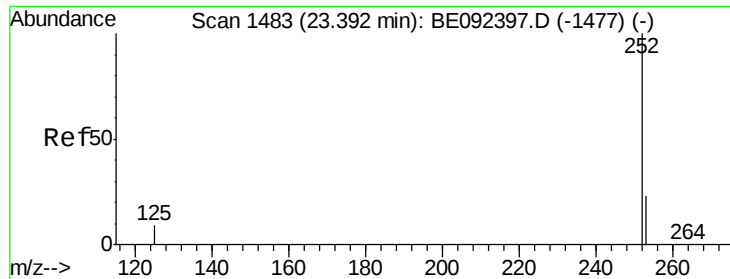


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#32

Benzo(b)fluoranthene

Concen: 5.45 ng

RT: 23.38 min Scan# 1482

Delta R.T. 0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

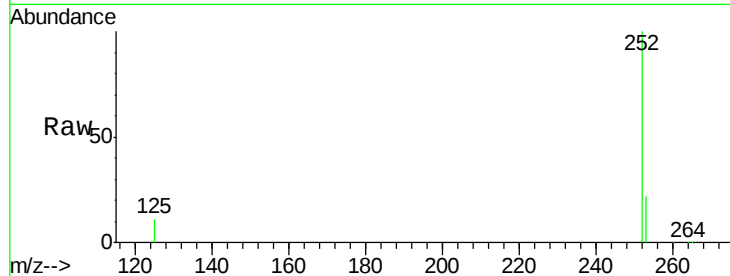
Tot Ion:252 Resp: 122822

Ion Ratio Lower Upper

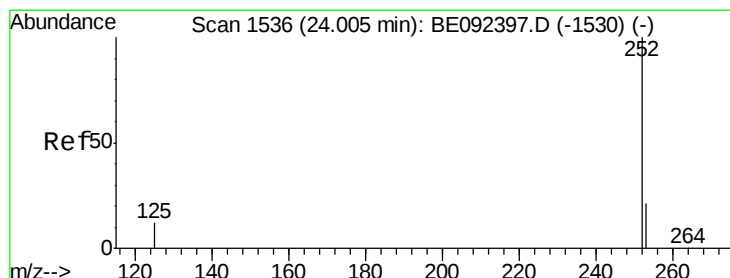
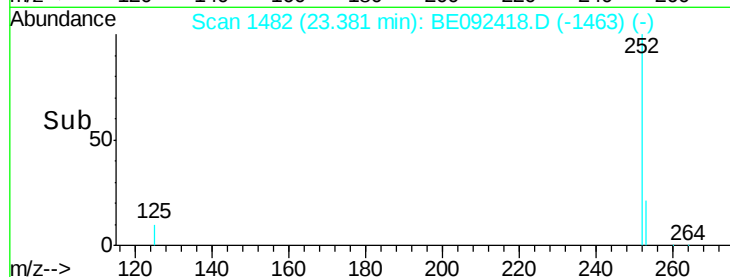
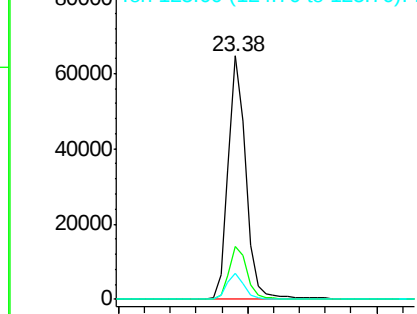
252 100

253 21.6 18.7 28.1

125 10.6 10.5 15.7



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



#34

Benzo(a)pyrene

Concen: 10.13 ng

RT: 24.01 min Scan# 1536

Delta R.T. 0.02 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

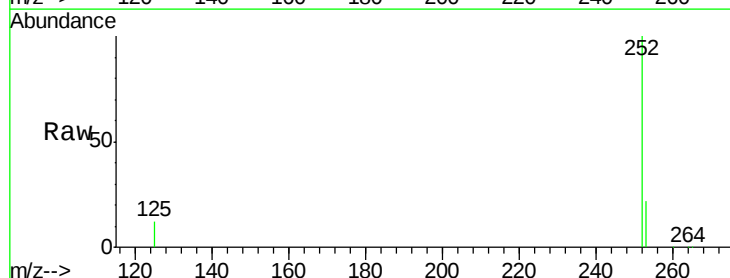
Tgt Ion:252 Resp: 223690

Ion Ratio Lower Upper

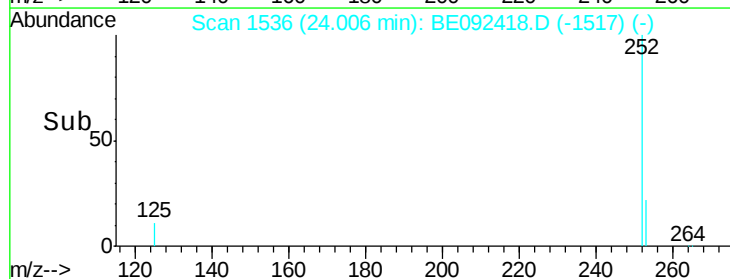
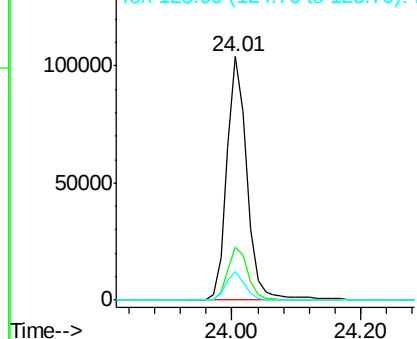
252 100

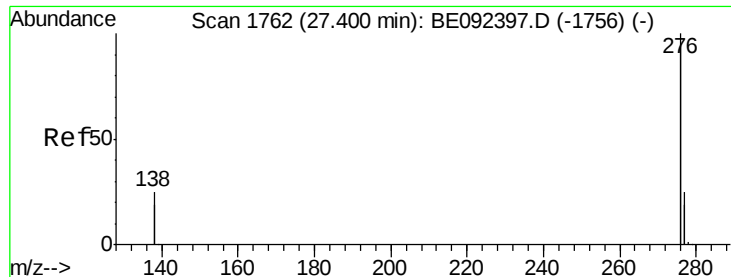
253 21.7 19.0 28.6

125 11.6 11.8 17.8#



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





#36

Benzo(a,h,i)perylene

Concen: 8.87 ng

RT: 27.38 min Scan# 1761

Delta R.T. 0.03 min

Lab File: BE092418.D

Acq: 23 Sep 2016 16:45

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

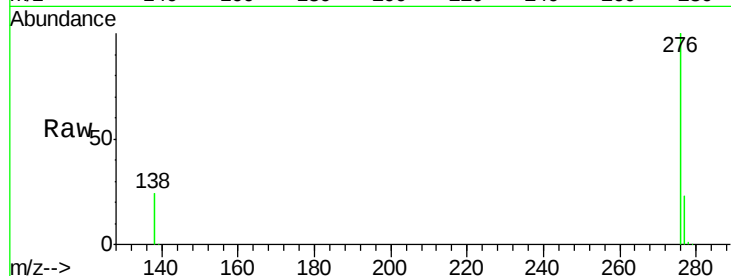
Tot Ion: 276 Resp: 771655

Ion Ratio Lower Upper

276 100

277 22.5 19.8 29.8

138 24.5 19.8 29.6



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

