

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE032519\
 Data File : BE099212.D
 Acq On : 26 Mar 2019 12:24
 Operator : JU/SJ
 Sample : K2014-18RE
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 26 13:38:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 07:02:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	3174	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	12640	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	9174	0.40	ng	-0.01
19) Phenanthrene-d10	17.20	188	28876	0.40	ng	-0.01
27) Chrysene-d12	21.38	240	34622	0.40	ng	-0.01
34) Perylene-d12	23.89	264	34181	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	3734	0.39	ng	0.00
5) Phenol-d6	6.99	99	5393	0.37	ng	0.00
8) Nitrobenzene-d5	8.99	82	4096	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	8966	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	1541	0.52	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	13998	0.37	ng	0.00
25) Fluoranthene-d10	19.24	212	137399	0.39	ng	0.00
29) Terphenyl-d14	19.83	244	25346	0.34	ng	0.00

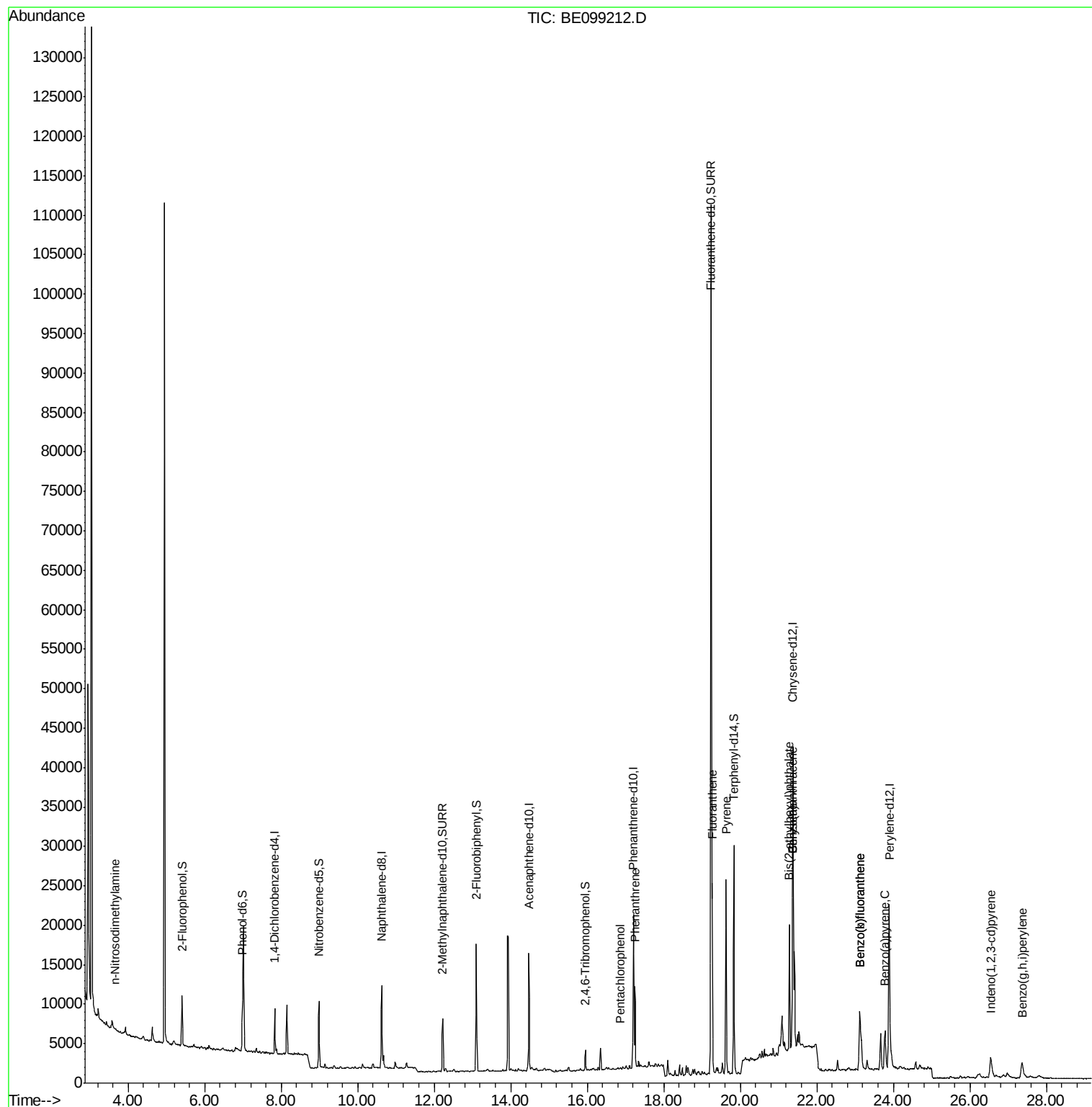
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.65	42	228	0.097	ng	# 1
22) Pentachlorophenol	16.85	266	62	0.263	ng	# 77
23) Phenanthrene	17.24	178	12115	0.143	ng	99
26) Fluoranthene	19.26	202	21414	0.198	ng	100
28) Pyrene	19.63	202	23020	0.200	ng	97
30) Benzo(a)anthracene	21.37	228	11288	0.099	ng	96
31) Chrysene	21.37	228	10722	0.088	ng	95
32) Bis(2-ethylhexyl)phthalate	21.28	149	20259	0.149	ng	100
33) Indeno(1,2,3-cd)pyrene	26.55	276	5933	0.051	ng	# 95
35) Benzo(b)fluoranthene	23.12	252	14135	0.126	ng	# 75
36) Benzo(k)fluoranthene	23.12	252	14135	0.119	ng	# 75
37) Benzo(a)pyrene	23.78	252	9122	0.087	ng	# 86
39) Benzo(a,h,i)perylene	27.37	276	6464	0.069	ng	# 89

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

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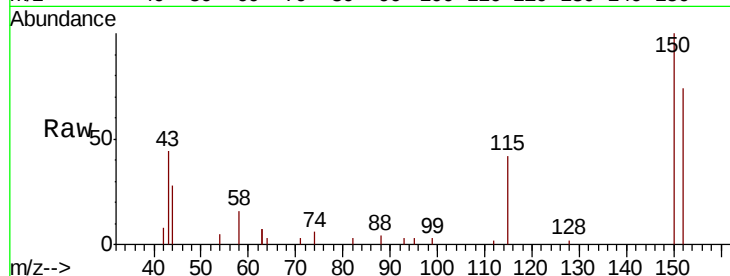


#1

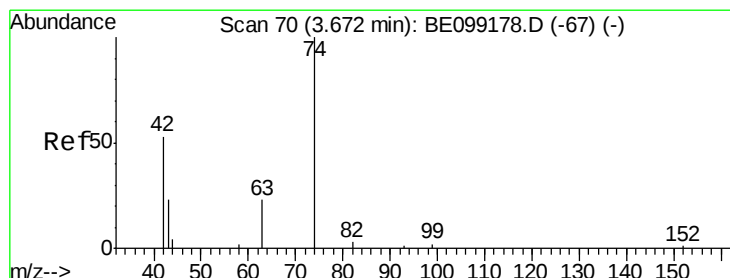
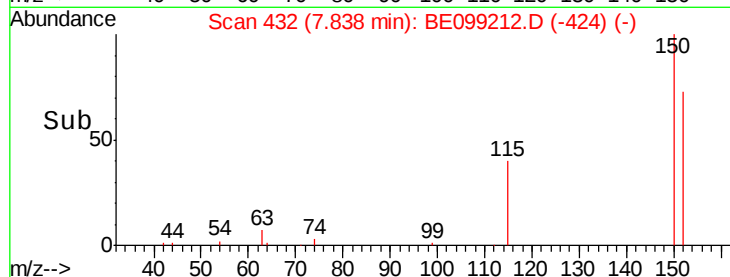
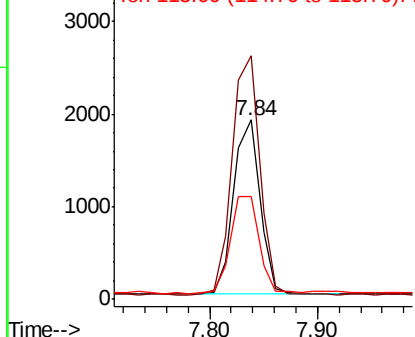
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.84 min Scan# 432
Delta R.T. -0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 3174
Ion Ratio Lower Upper
152 100
150 135.7 112.8 169.2
115 57.4 45.1 67.7



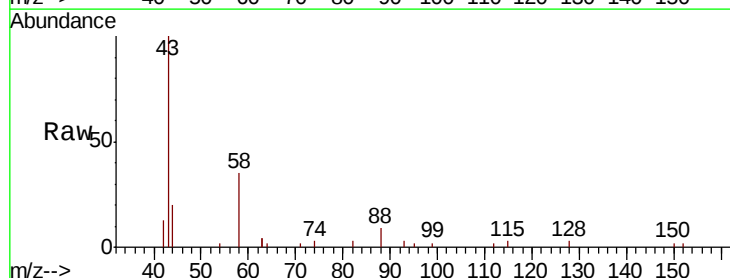
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



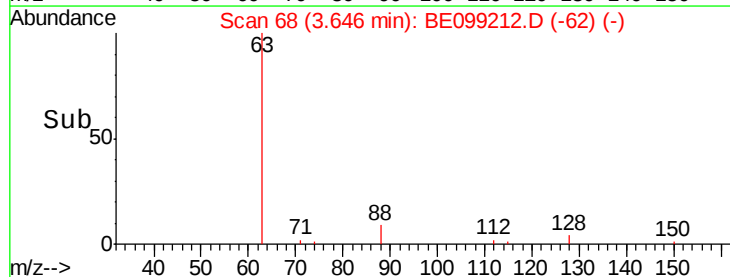
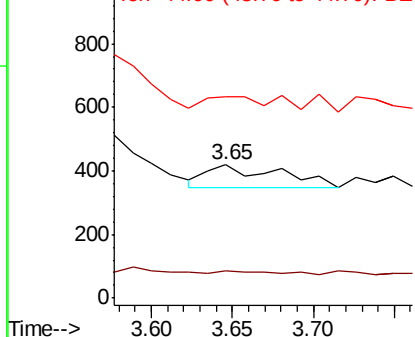
#3

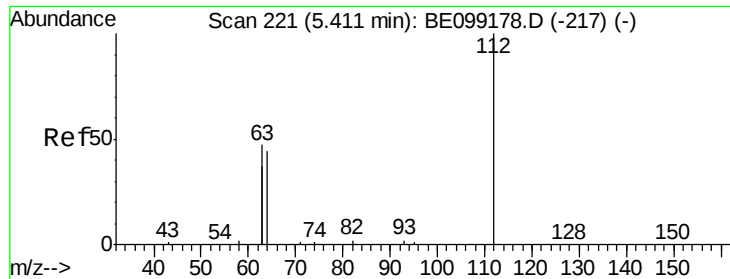
n-Nitrosodimethylamine
Concen: 0.097 ng
RT: 3.65 min Scan# 68
Delta R.T. -0.03 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 42 Resp: 228
Ion Ratio Lower Upper
42 100
74 5.3 138.6 207.8#
44 31.6 15.0 22.6#



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





#4

2-Fluorophenol

Concen: 0.394 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

ClientSampleId :

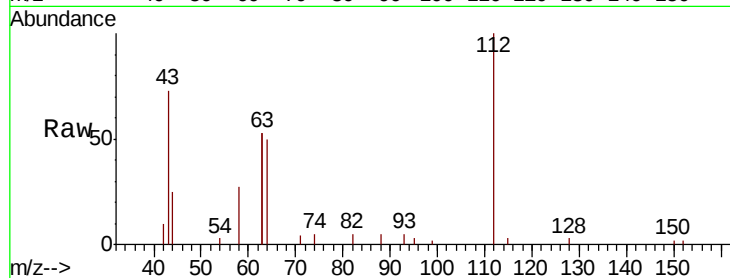
Tot Ion:112 Resp: 3734

Ion Ratio Lower Upper

112 100

64 56.7 46.2 69.2

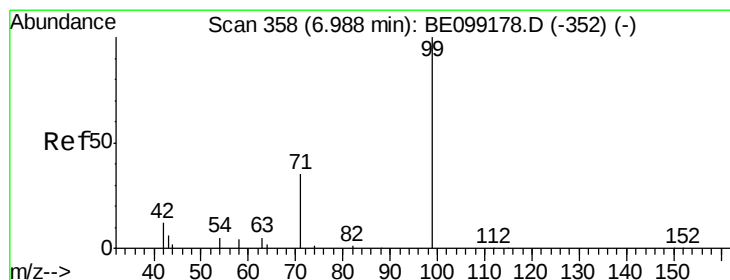
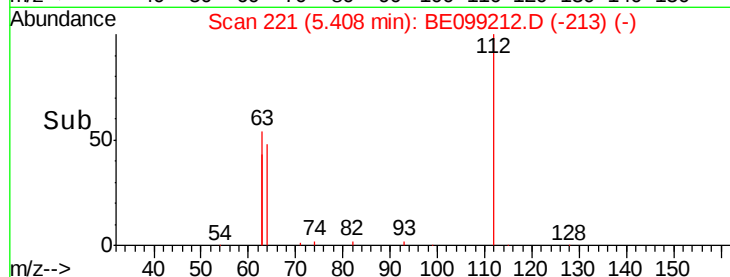
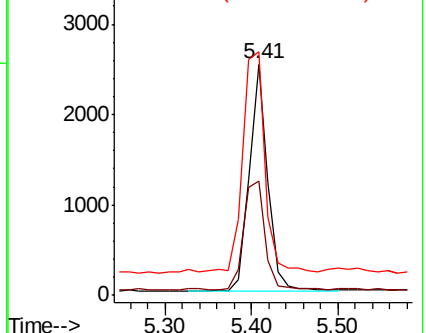
63 115.0 89.9 134.9



Abundance Ion 112.00 (111.70 to 112.70): BE099212.D (-217) (-)

Ion 64.00 (63.70 to 64.70): BE099212.D (-217) (-)

Ion 63.00 (62.70 to 63.70): BE099212.D (-217) (-)



#5

Phenol-d6

Concen: 0.372 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

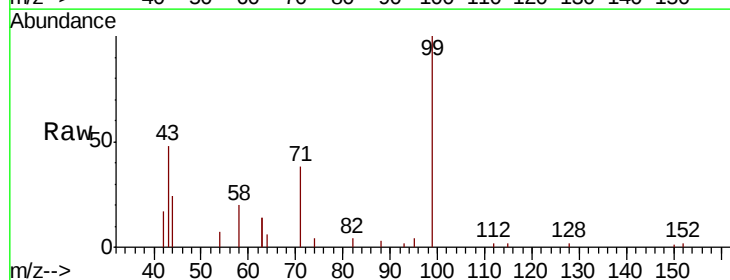
Tgt Ion: 99 Resp: 5393

Ion Ratio Lower Upper

99 100

42 21.2 12.4 18.6#

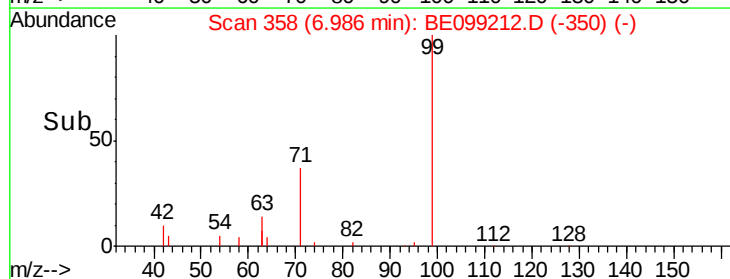
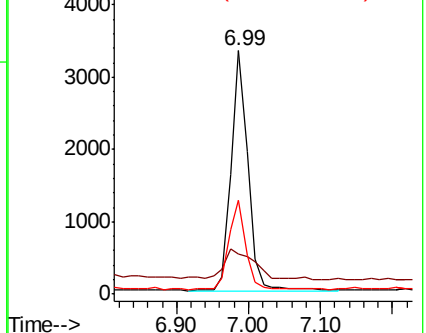
71 37.6 28.4 42.6

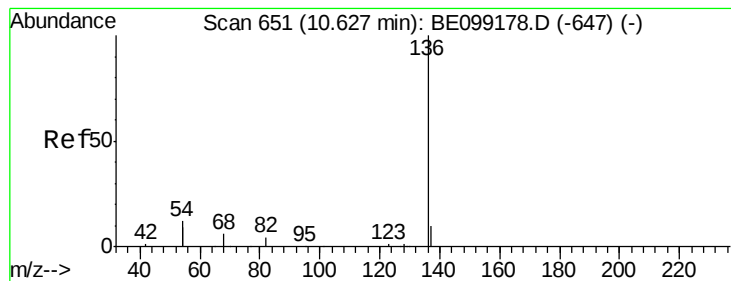


Abundance Ion 99.00 (98.70 to 99.70): BE099212.D (-352) (-)

Ion 42.00 (41.70 to 42.70): BE099212.D (-352) (-)

Ion 71.00 (70.70 to 71.70): BE099212.D (-352) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 12640

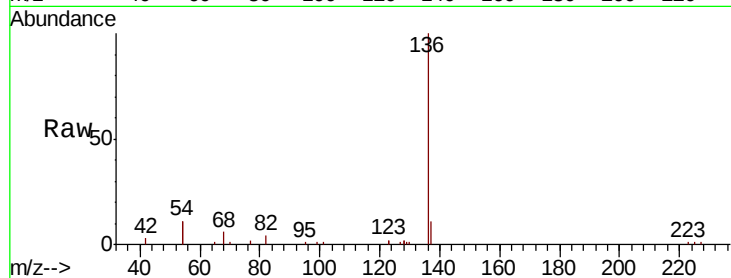
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 21.4 18.7 28.1

68 6.0 5.2 7.8

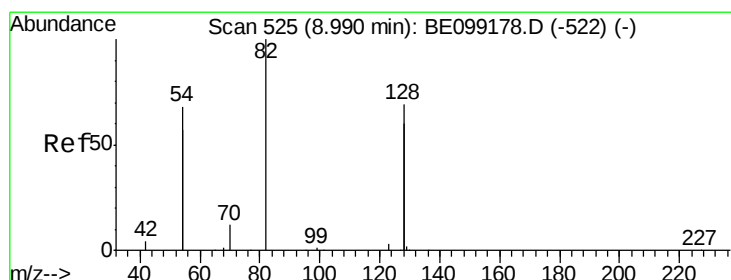
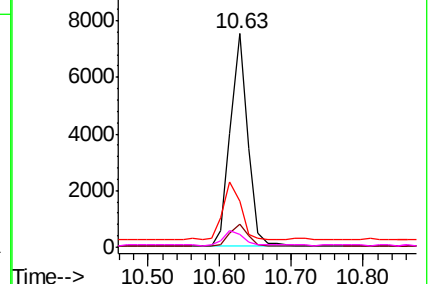
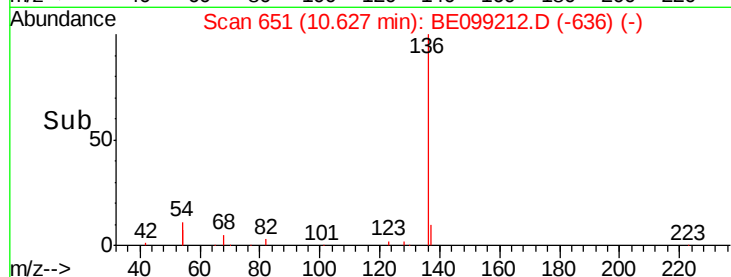


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.397 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

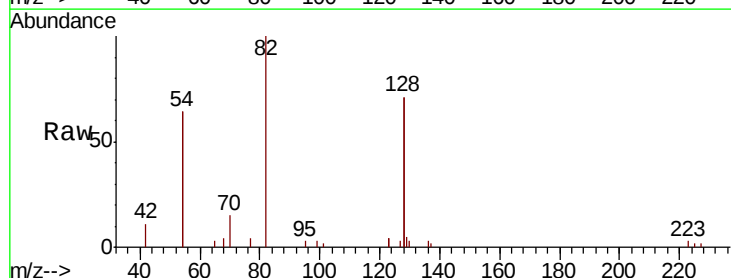
Tgt Ion: 82 Resp: 4096

Ion Ratio Lower Upper

82 100

128 142.4 107.5 161.3

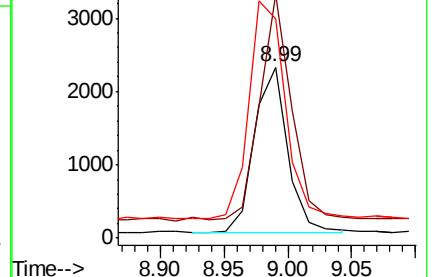
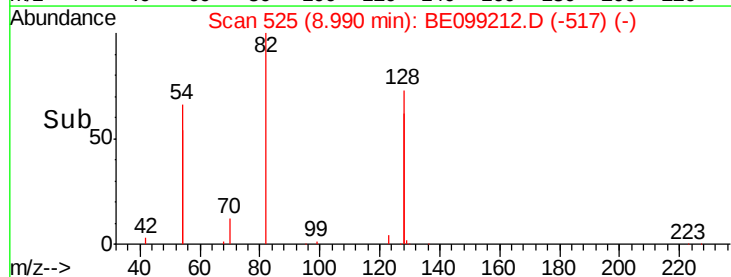
54 128.4 106.3 159.5

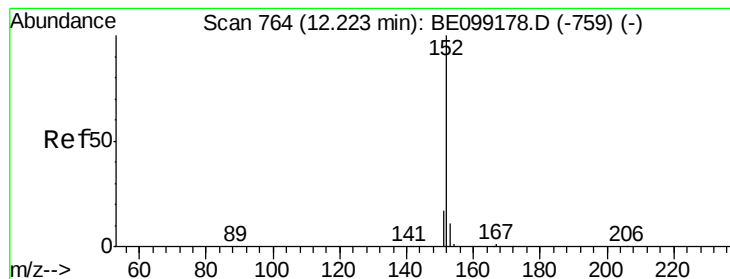


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.368 ng

RT: 12.22 min Scan# 764

Delta R.T. 0.00 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

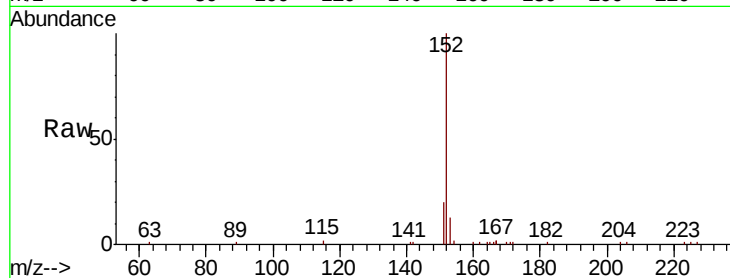
ClientSampleId :

Tot Ion:152 Resp: 8966

Ion Ratio Lower Upper

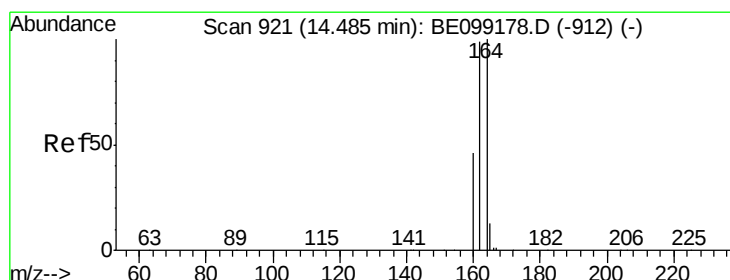
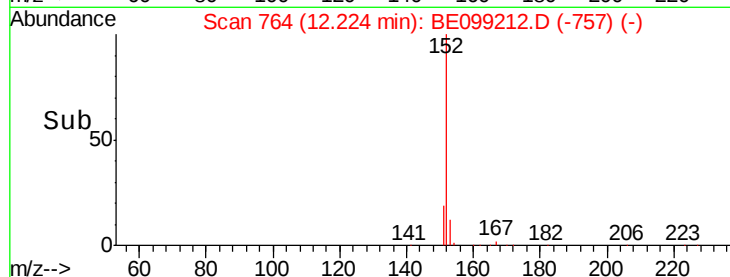
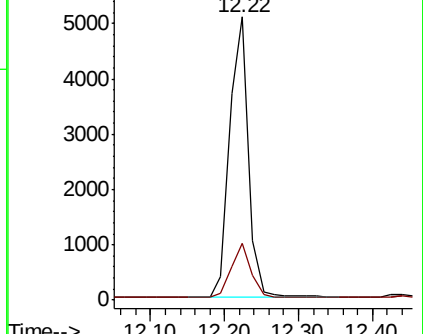
152 100

151 20.0 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

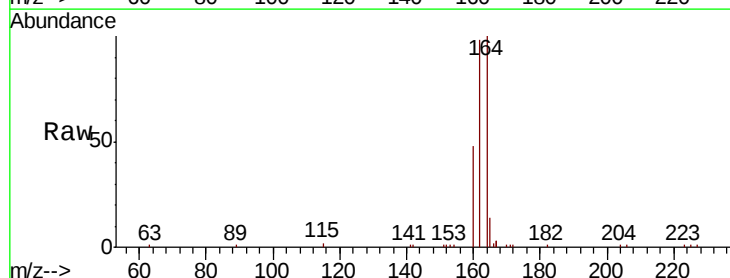
Tgt Ion:164 Resp: 9174

Ion Ratio Lower Upper

164 100

162 97.9 79.2 118.8

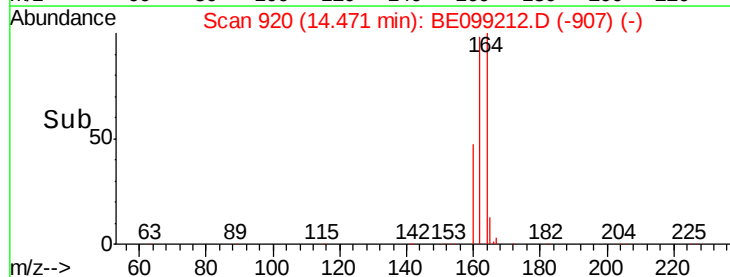
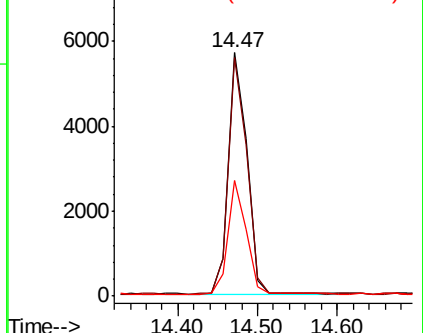
160 47.6 36.7 55.1

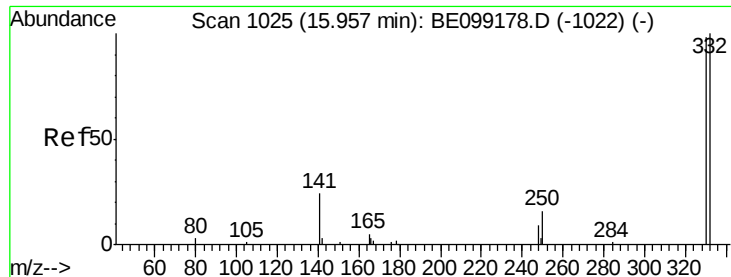


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

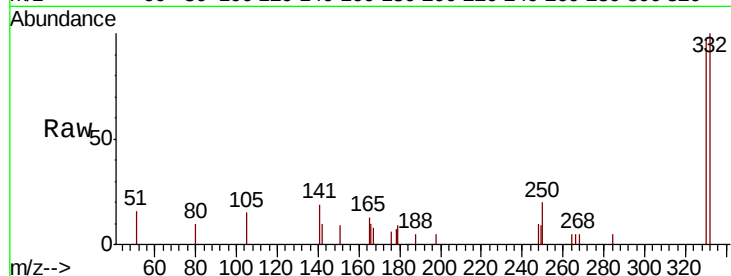




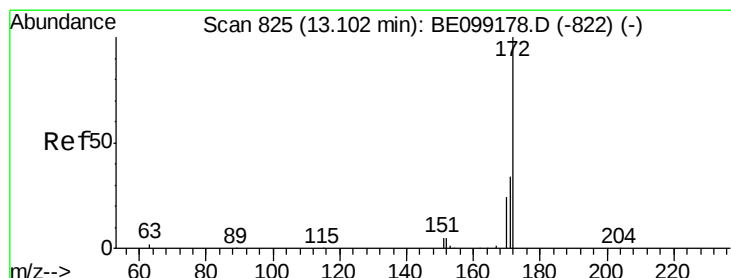
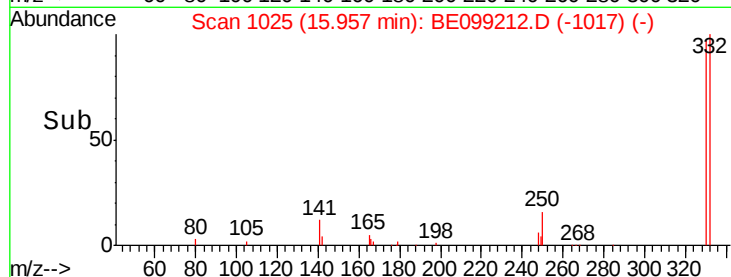
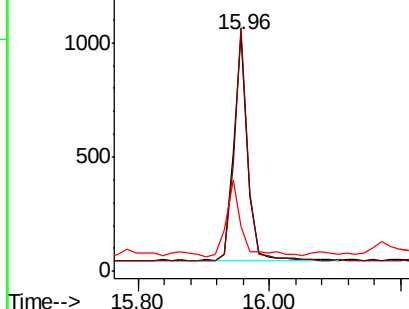
#14
 2,4,6-Tribromophenol
 Concen: 0.523 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE099212.D
 Acq: 26 Mar 2019 12:24

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:330 Resp: 1541
 Ion Ratio Lower Upper
 330 100
 332 96.3 71.3 106.9
 141 37.1 21.7 32.5#

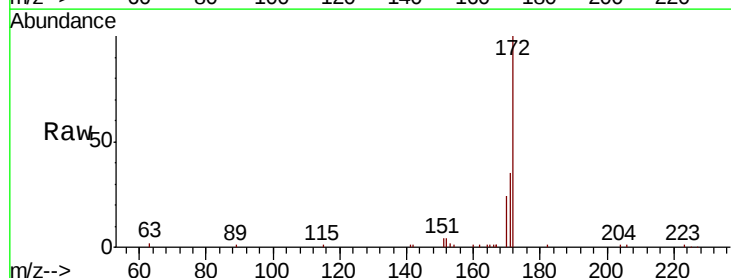


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

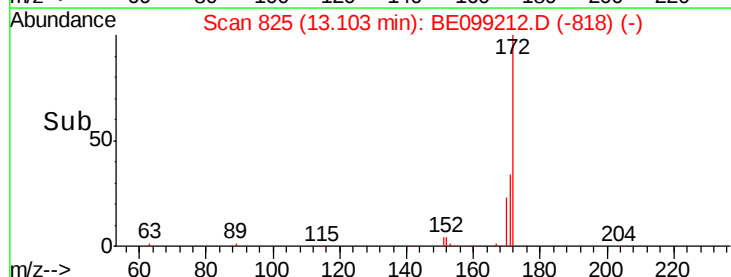
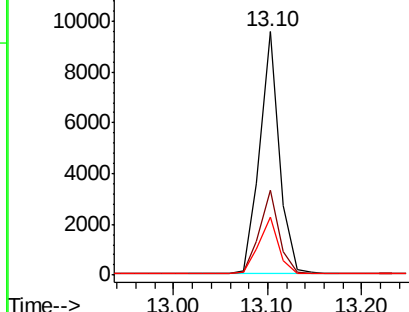


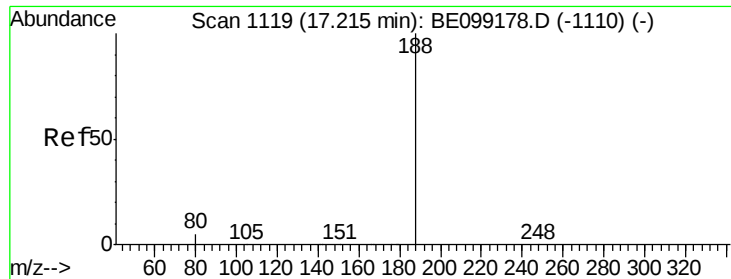
#15
 2-Fluorobiphenyl
 Concen: 0.374 ng
 RT: 13.10 min Scan# 825
 Delta R.T. 0.00 min
 Lab File: BE099212.D
 Acq: 26 Mar 2019 12:24

Tgt Ion:172 Resp: 13998
 Ion Ratio Lower Upper
 172 100
 171 34.8 27.4 41.0
 170 23.9 19.1 28.7



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

ClientSampleId :

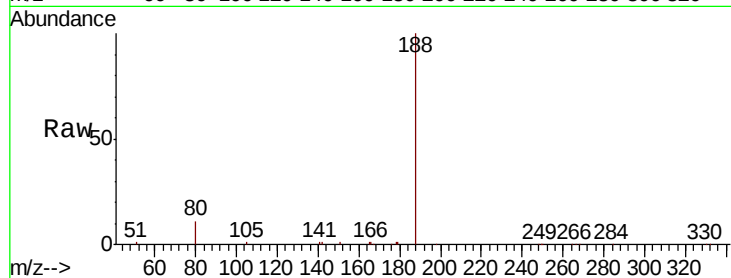
Tot Ion:188 Resp: 28876

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

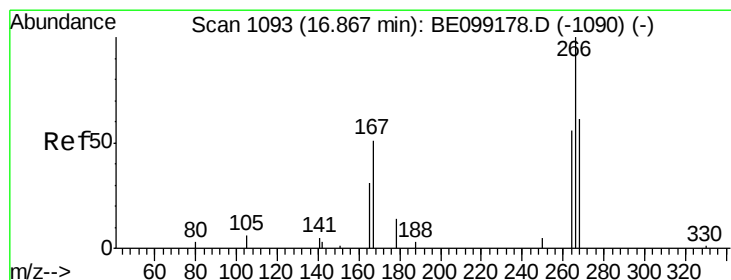
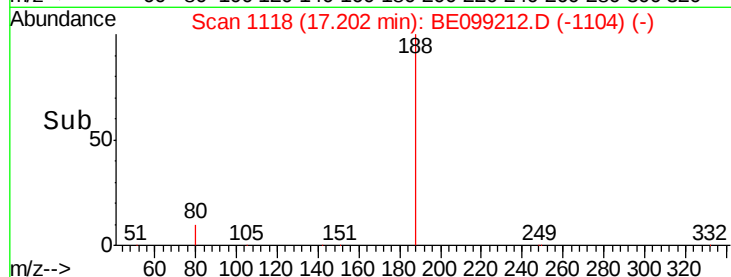
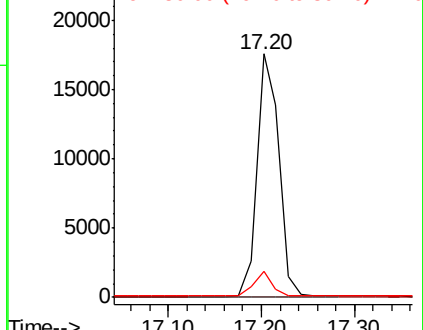
80 10.7 4.5 6.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.263 ng

RT: 16.85 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

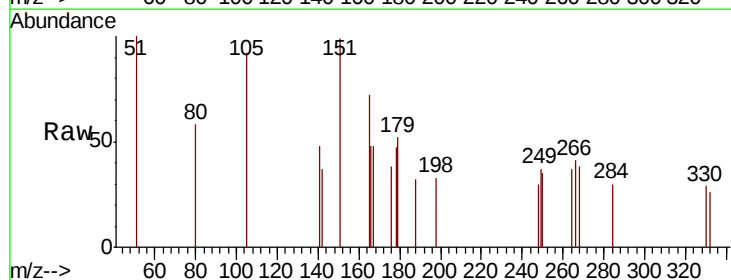
Tgt Ion:266 Resp: 62

Ion Ratio Lower Upper

266 100

264 90.1 54.4 81.6#

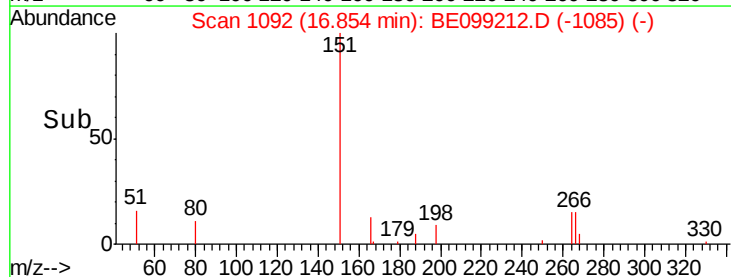
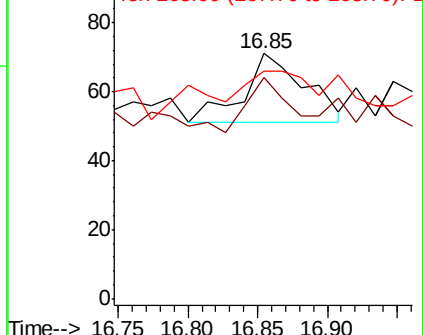
268 93.0 61.3 91.9#

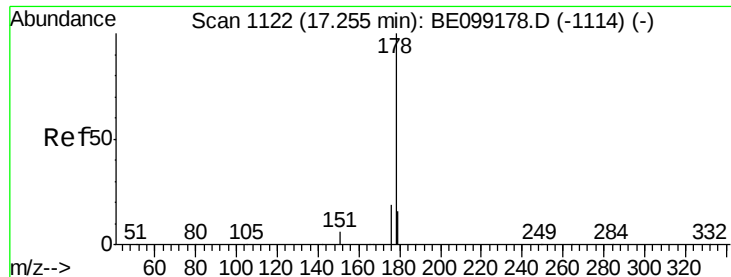


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

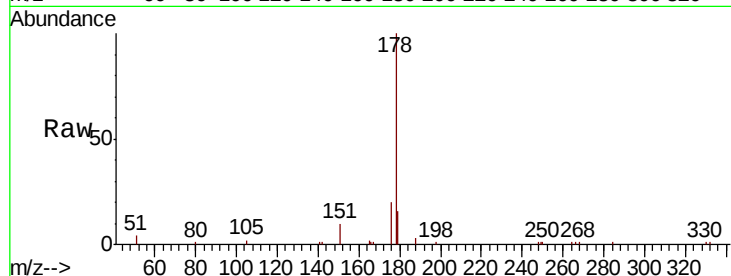




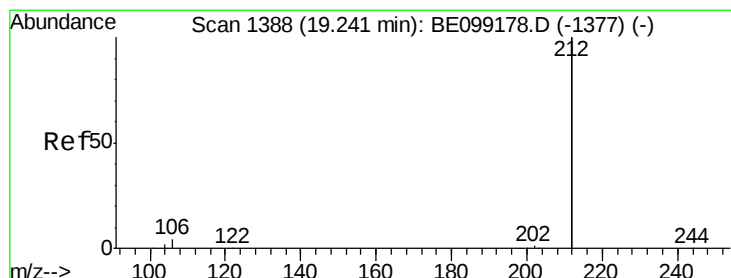
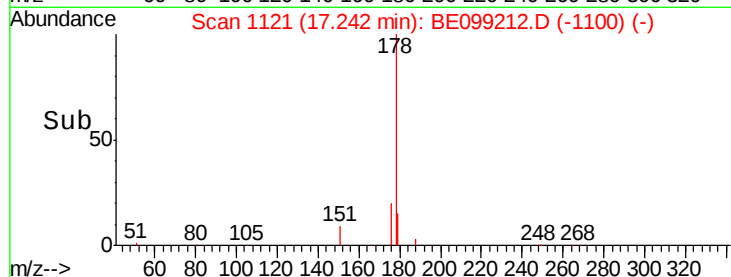
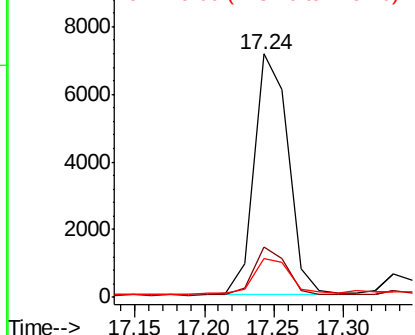
#23
Phenanthrene
Concen: 0.143 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.01 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Instrument :
BNA_E
ClientSampled :

Tot Ion:178 Resp: 12115
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.0 12.3 18.5

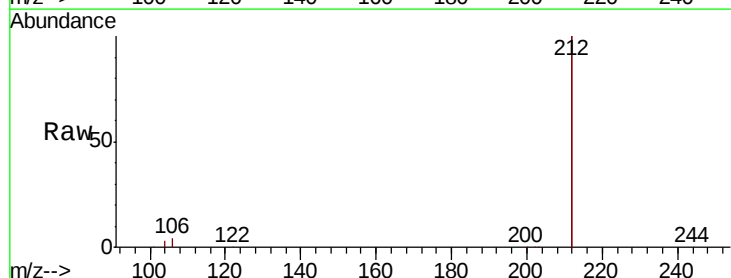


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

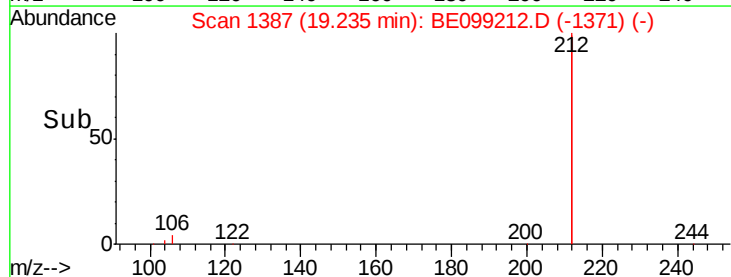
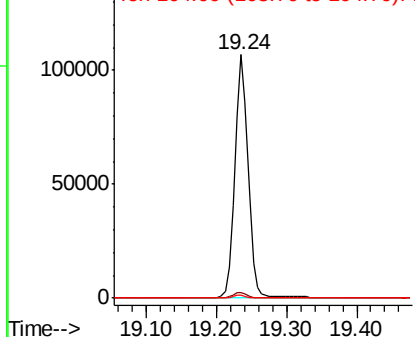


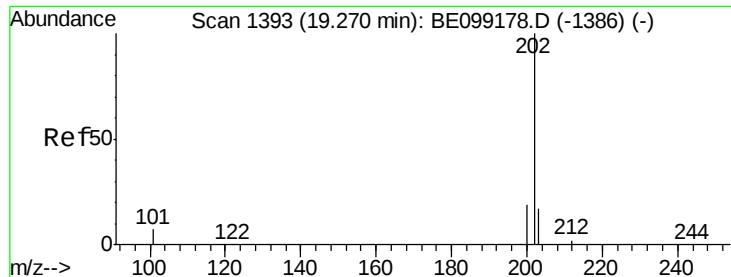
#25
Fluoranthene-d10
Concen: 0.393 ng
RT: 19.24 min Scan# 1387
Delta R.T. -0.01 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:212 Resp: 137399
Ion Ratio Lower Upper
212 100
106 2.3 1.8 2.8
104 1.3 1.1 1.7



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E

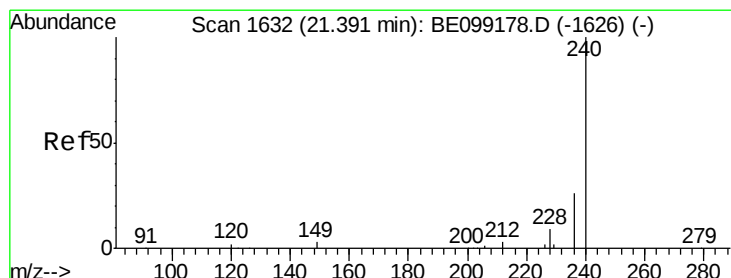
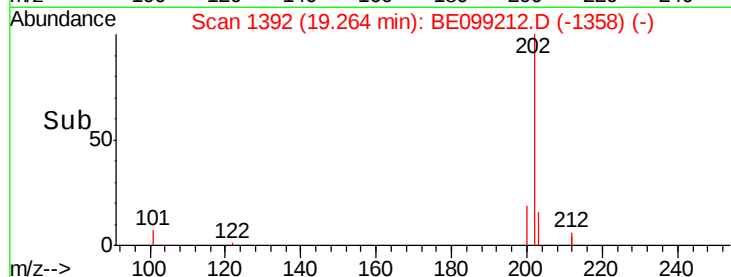
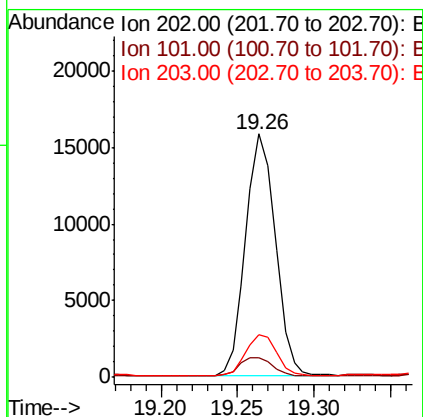
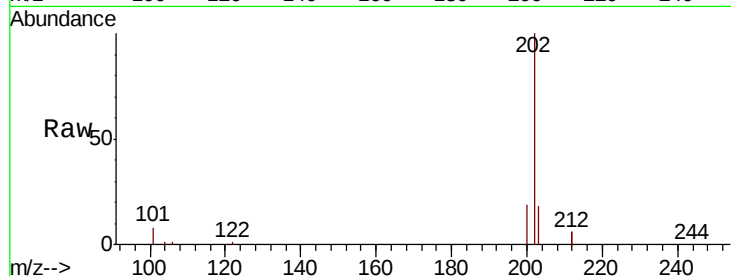




#26
Fluoranthene
Concen: 0.198 ng
RT: 19.26 min Scan# 1392
Delta R.T. -0.01 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

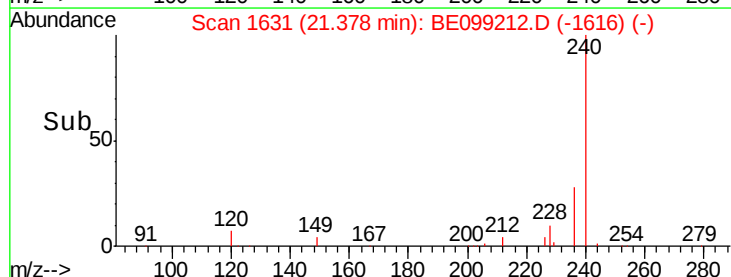
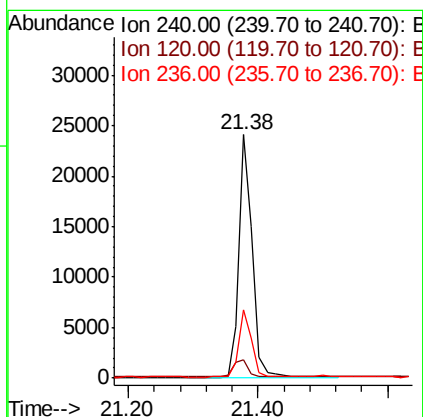
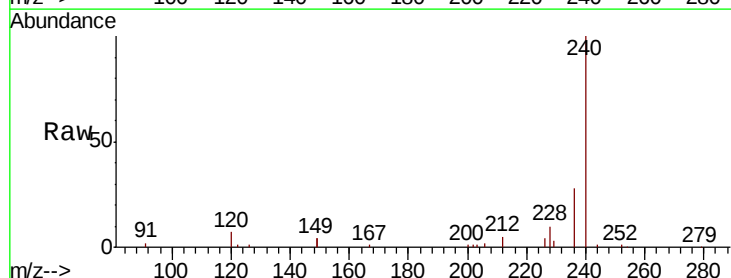
Instrument :
BNA_E
ClientSampleId :

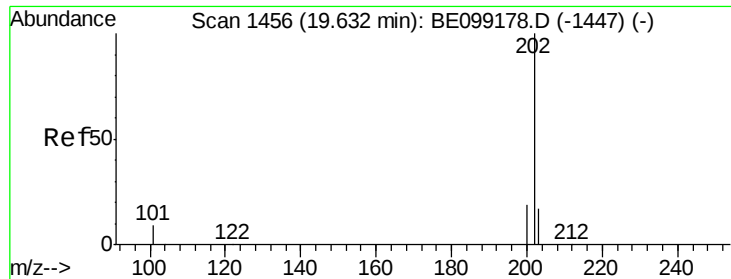
Tot Ion:202 Resp: 21414
Ion Ratio Lower Upper
202 100
101 8.5 7.0 10.4
203 17.1 13.8 20.6



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:240 Resp: 34622
Ion Ratio Lower Upper
240 100
120 7.4 2.6 3.8#
236 28.2 20.9 31.3

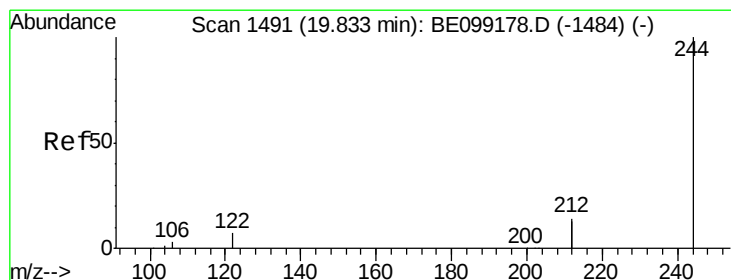
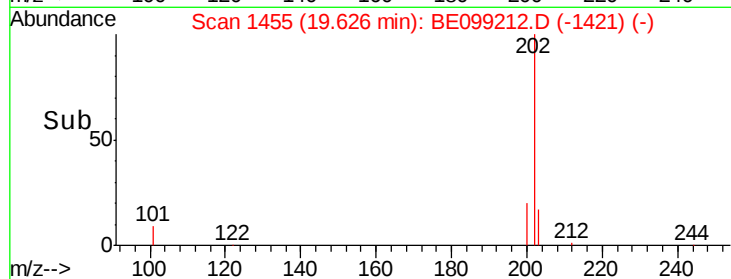
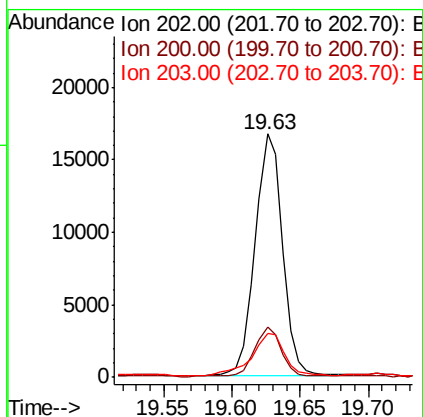
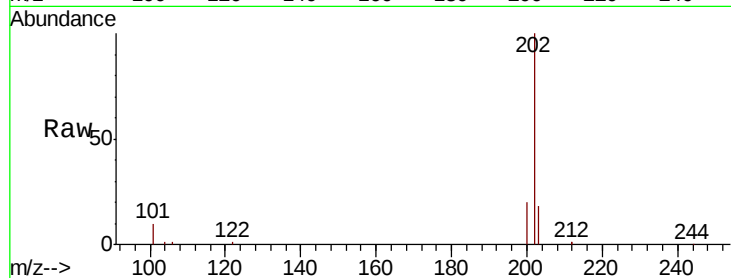




#28
Pvrene
Concen: 0.200 ng
RT: 19.63 min Scan# 1455
Delta R.T. -0.01 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

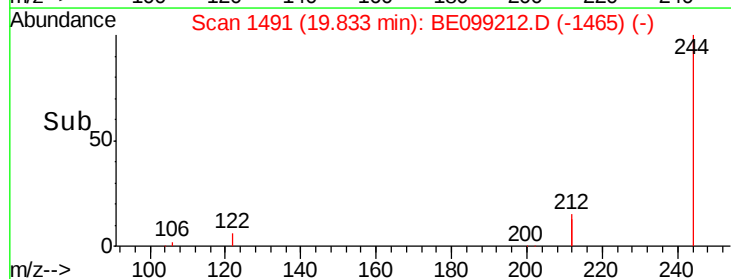
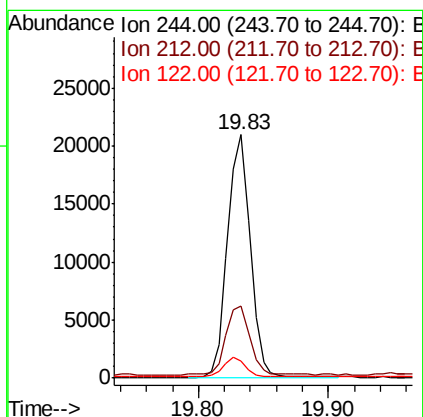
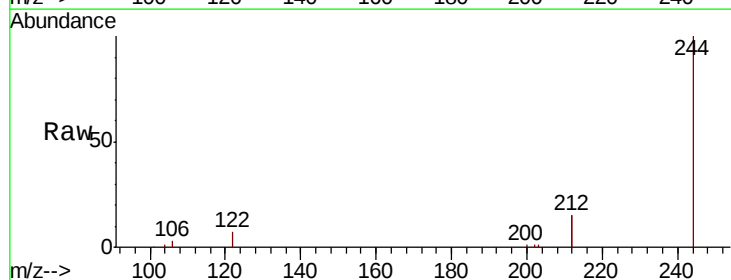
Instrument :
BNA_E
ClientSampleId :

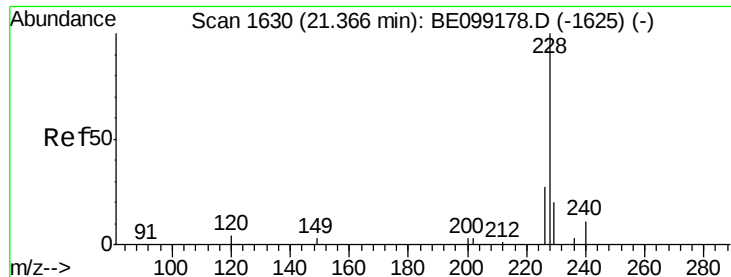
Tot Ion:202 Resp: 23020
Ion Ratio Lower Upper
202 100
200 19.8 15.8 23.8
203 20.5 14.1 21.1



#29
Terphenyl-d14
Concen: 0.337 ng
RT: 19.83 min Scan# 1491
Delta R.T. -0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:244 Resp: 25346
Ion Ratio Lower Upper
244 100
212 29.8 22.7 34.1
122 6.9 5.8 8.6

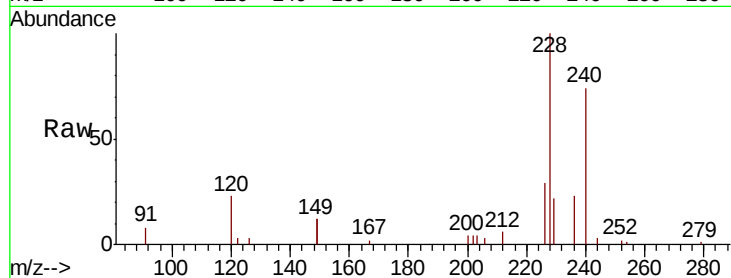




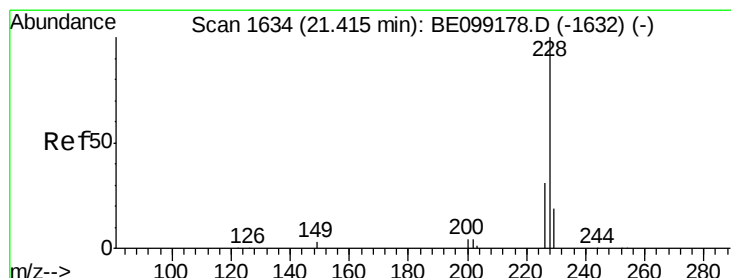
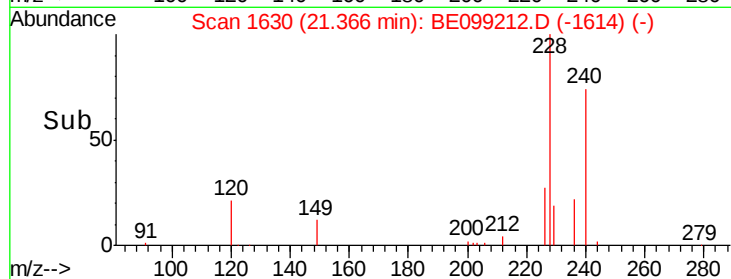
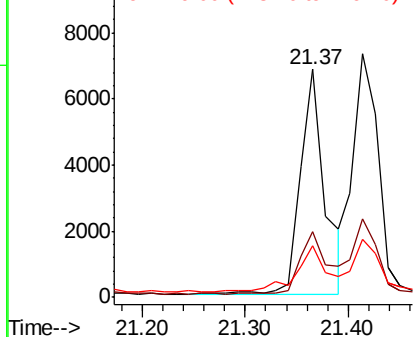
#30
Benzo(a)anthracene
Concen: 0.099 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:228 Resp: 11288
Ion Ratio Lower Upper
228 100
226 28.9 21.7 32.5
229 22.4 15.9 23.9

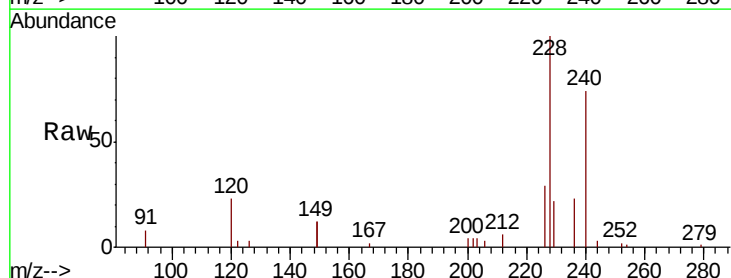


Abundance Ion 228.00 (227.70 to 228.70): E
10000 Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

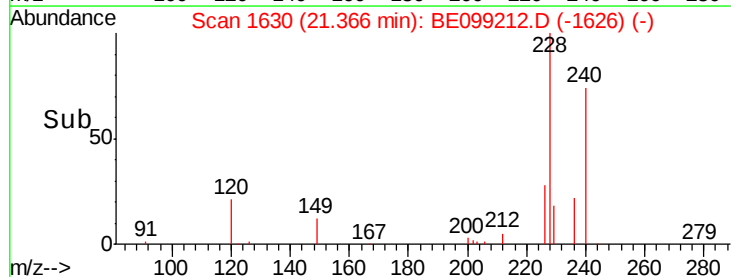
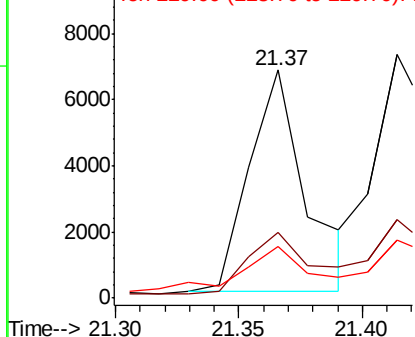


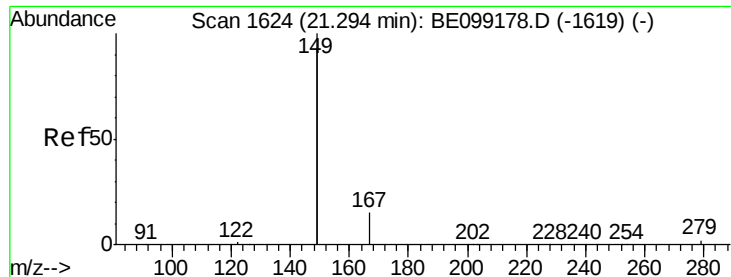
#31
Chrysene
Concen: 0.088 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.05 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:228 Resp: 10722
Ion Ratio Lower Upper
228 100
226 28.9 24.8 37.2
229 22.4 15.4 23.0



Abundance Ion 228.00 (227.70 to 228.70): E
10000 Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.149 ng

RT: 21.28 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

ClientSampleId :

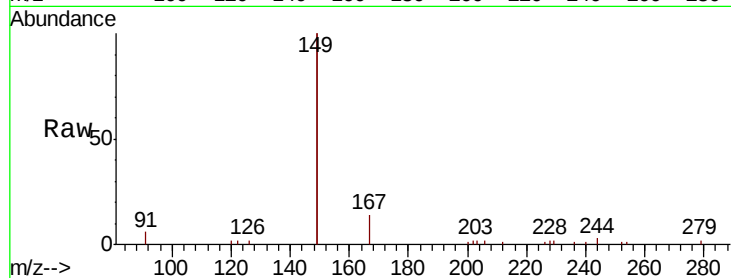
Tot Ion:149 Resp: 20259

Ion Ratio Lower Upper

149 100

167 7.4 5.9 8.9

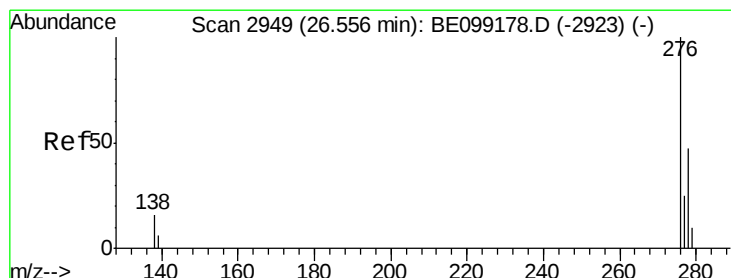
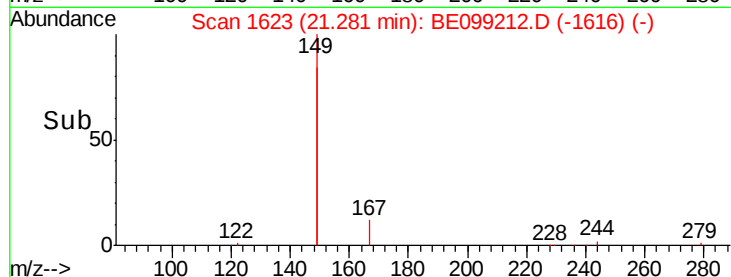
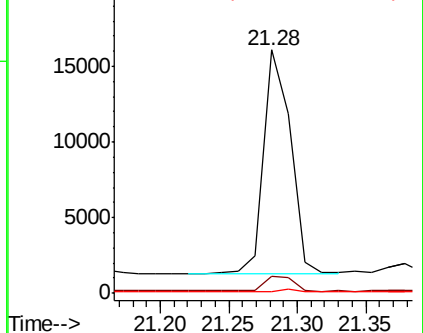
279 1.2 1.0 1.6



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.051 ng

RT: 26.55 min Scan# 2946

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

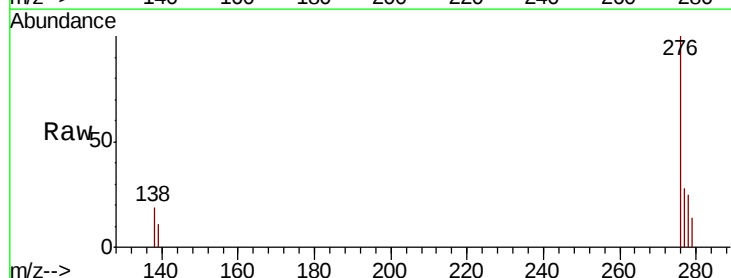
Tgt Ion:276 Resp: 5933

Ion Ratio Lower Upper

276 100

138 11.1 12.9 19.3#

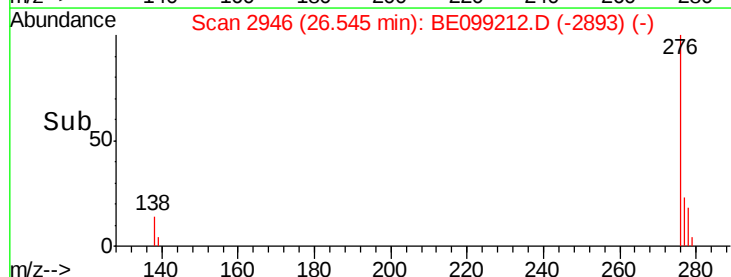
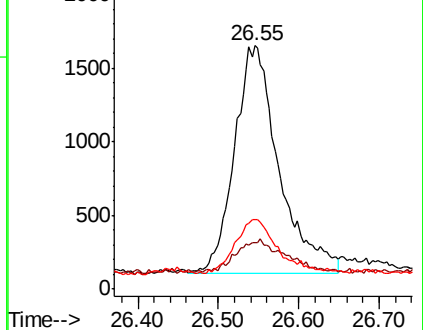
277 22.6 18.3 27.5

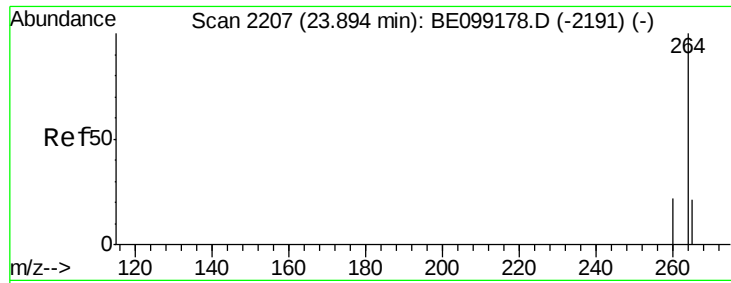


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

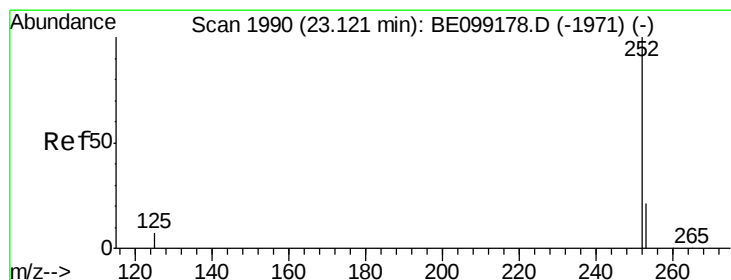
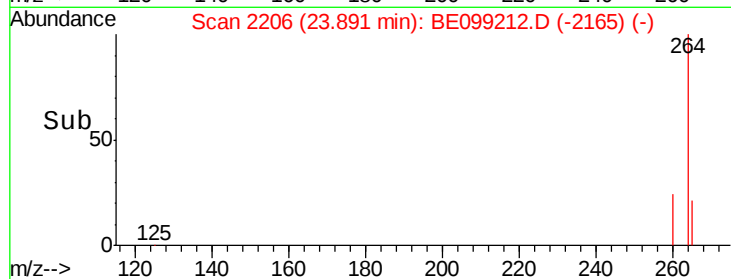
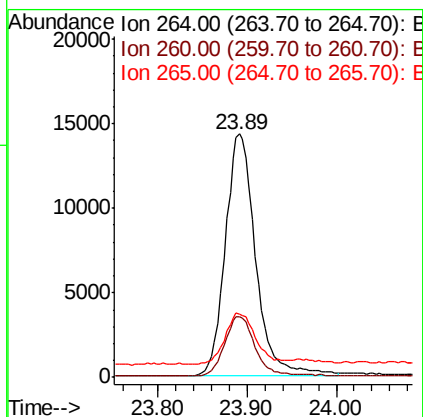
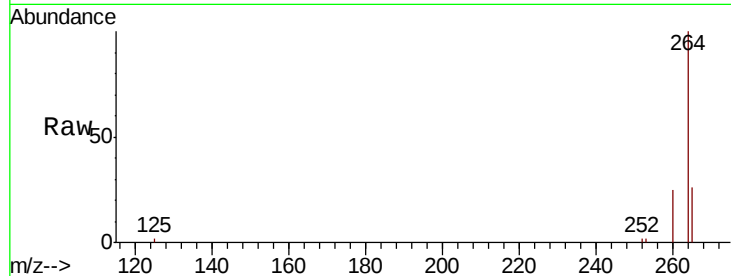




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.89 min Scan# 2206
Delta R.T. -0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

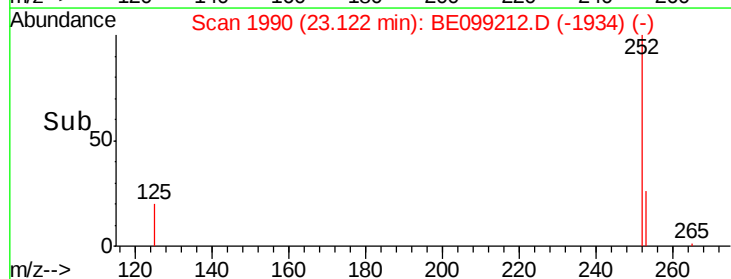
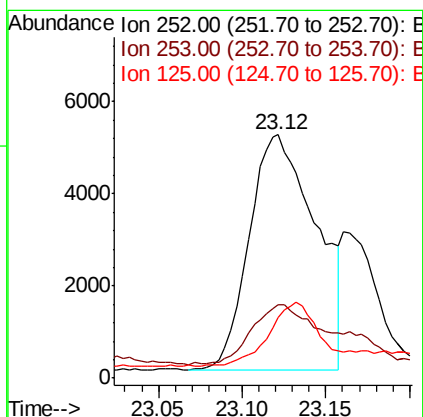
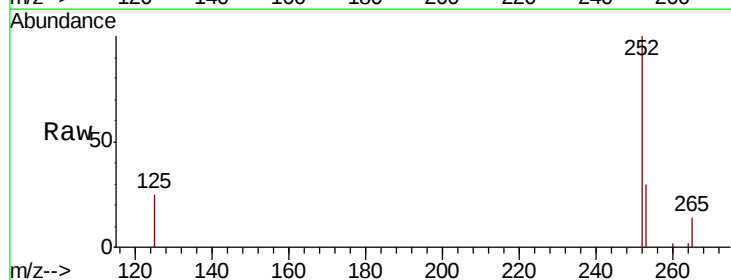
Instrument :
BNA_E
ClientSampleId :

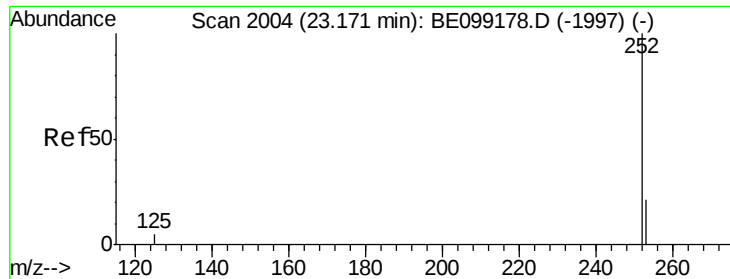
Tot Ion:264 Resp: 34181
Ion Ratio Lower Upper
264 100
260 24.8 18.2 27.2
265 25.9 21.8 32.8



#35
Benzo(b)fluoranthene
Concen: 0.126 ng
RT: 23.12 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:252 Resp: 14135
Ion Ratio Lower Upper
252 100
253 30.2 17.8 26.8#
125 24.8 6.1 9.1#

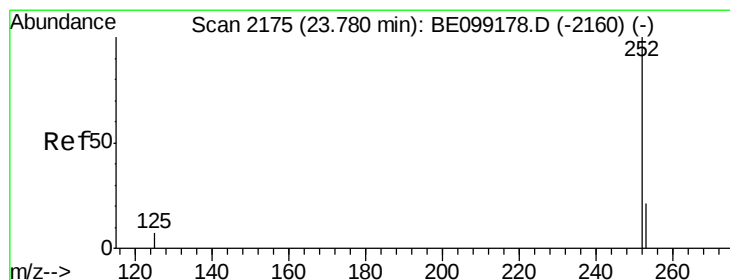
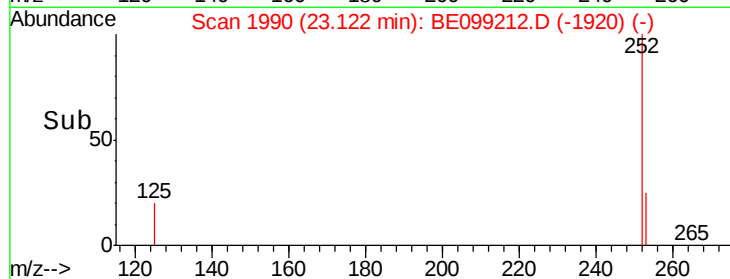
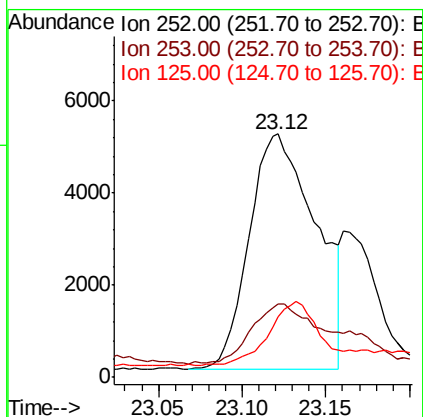
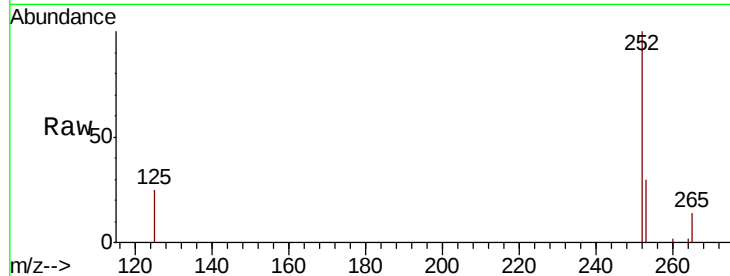




#36
Benzo(k)fluoranthene
Concen: 0.119 ng
RT: 23.12 min Scan# 1990
Delta R.T. -0.05 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

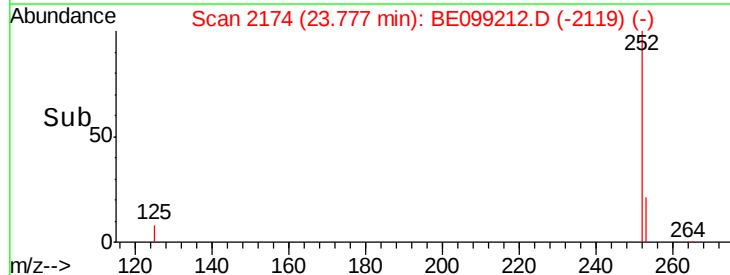
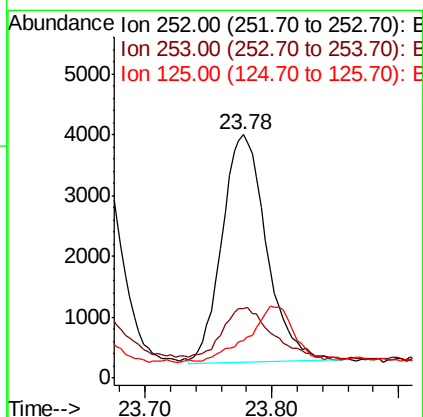
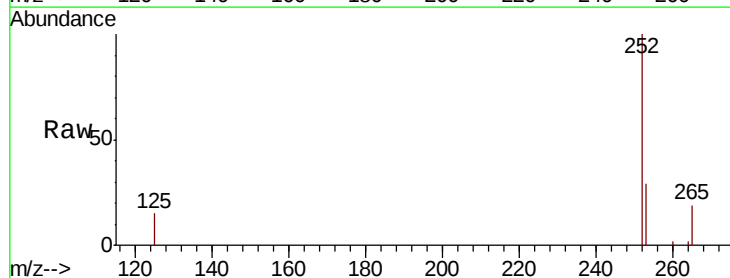
Instrument :
BNA_E
ClientSampleId :

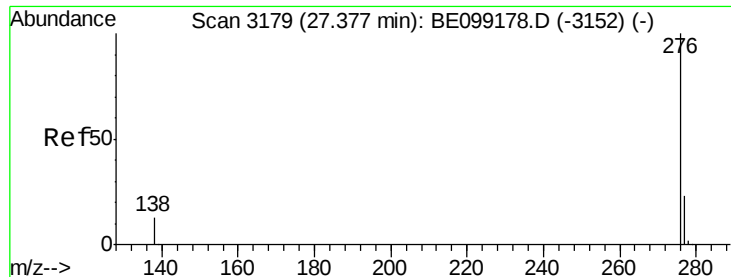
Tot Ion:252 Resp: 14135
Ion Ratio Lower Upper
252 100
253 30.2 17.8 26.6#
125 24.8 5.9 8.9#



#37
Benzo(a)pyrene
Concen: 0.087 ng
RT: 23.78 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BE099212.D
Acq: 26 Mar 2019 12:24

Tgt Ion:252 Resp: 9122
Ion Ratio Lower Upper
252 100
253 28.6 18.1 27.1#
125 15.3 6.8 10.2#





#39

Benzo(a,h,i)perylene

Concen: 0.069 ng

RT: 27.37 min Scan# 3176

Delta R.T. -0.01 min

Lab File: BE099212.D

Acq: 26 Mar 2019 12:24

Instrument :

BNA_E

ClientSampleId :

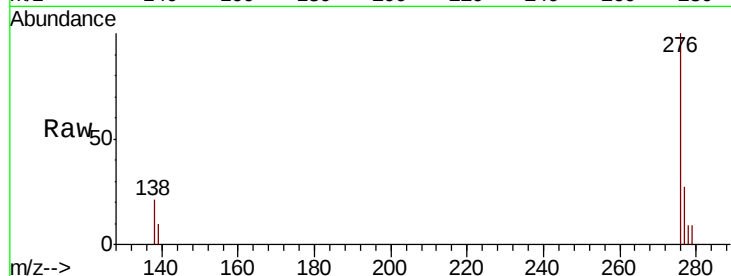
Tot Ion: 276 Resp: 6464

Ion Ratio Lower Upper

276 100

277 27.1 19.0 28.4

138 20.8 11.1 16.7#



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

