

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050119\
 Data File : BE099468.D
 Acq On : 1 May 2019 17:45
 Operator : JU/SJ
 Sample : K2588-09
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B014-042519

Quant Time: May 02 04:14:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	2033	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	7546	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6120	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	20234	0.40	ng	0.00
27) Chrysene-d12	21.36	240	25844	0.40	ng	0.00
34) Perylene-d12	23.86	264	29325	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2260	0.40	ng	0.00
5) Phenol-d6	6.96	99	3355	0.45	ng	-0.01
8) Nitrobenzene-d5	8.96	82	2692	0.38	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	4850	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1589	0.41	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	7468	0.32	ng	-0.02
25) Fluoranthene-d10	19.22	212	90213	0.33	ng	0.00
29) Terphenyl-d14	19.81	244	18080	0.38	ng	0.00

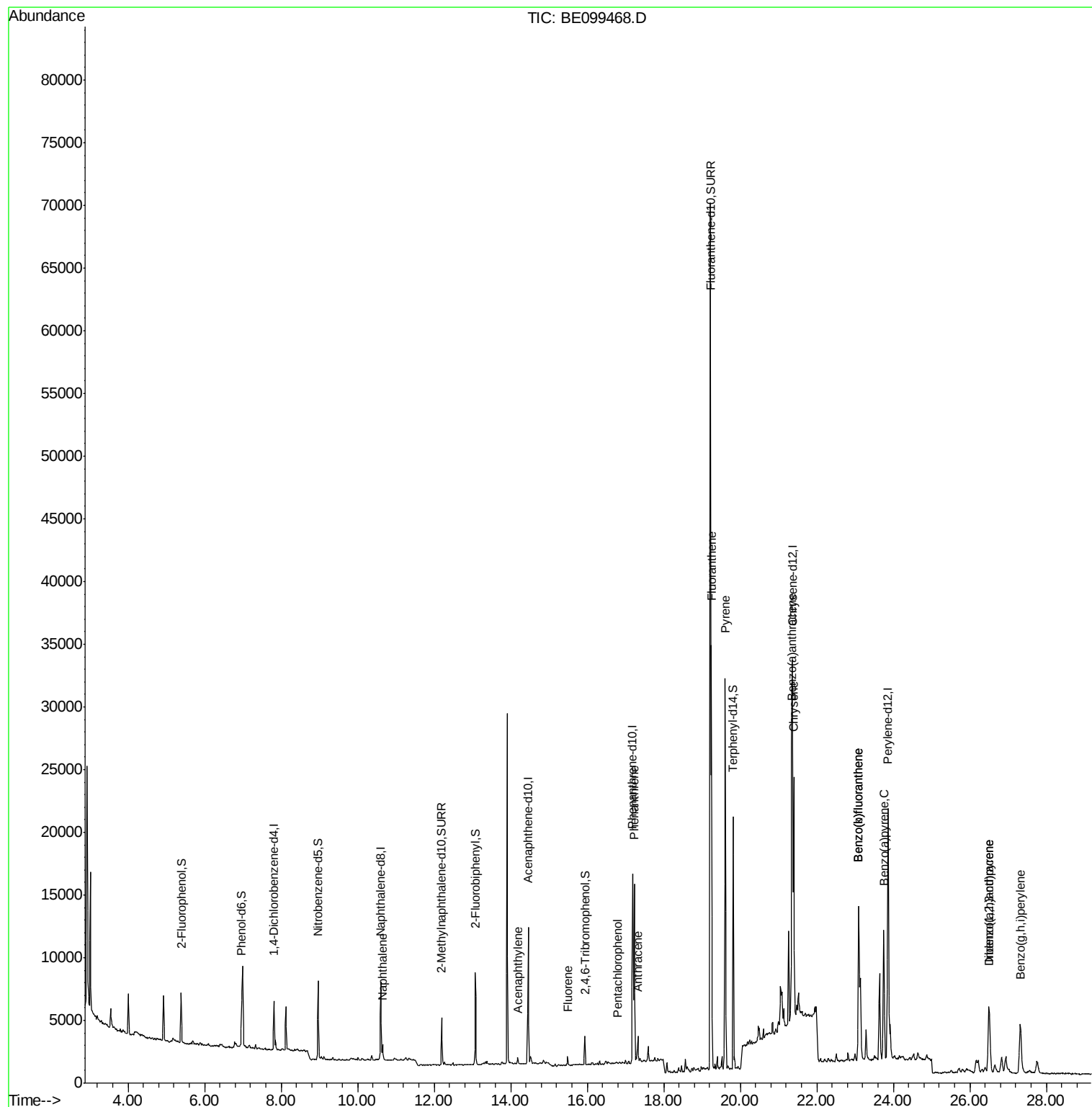
Target Compounds				Qvalue		
9) Naphthalene	10.65	128	1871	0.023	ng	# 90
16) Acenaphthylene	14.18	152	753	0.025	ng	# 88
18) Fluorene	15.49	166	516	0.020	ng	# 82
22) Pentachlorophenol	16.79	266	6	0.217	ng	# 54
23) Phenanthrene	17.23	178	14293	0.274	ng	99
24) Anthracene	17.32	178	1990	0.040	ng	# 84
26) Fluoranthene	19.25	202	31801	0.407	ng	99
28) Pyrene	19.61	202	29624	0.440	ng	# 96
30) Benzo(a)anthracene	21.34	228	18836	0.229	ng	97
31) Chrysene	21.40	228	18800	0.233	ng	97
33) Indeno(1,2,3-cd)pyrene	26.50	276	10999	0.115	ng	96
35) Benzo(b)fluoranthene	23.09	252	22895	0.271	ng	# 92
36) Benzo(k)fluoranthene	23.09	252	22895	0.281	ng	# 92
37) Benzo(a)pyrene	23.75	252	16184	0.202	ng	# 92
38) Dibenzo(a,h)anthracene	26.52	278	2927	0.036	ng	# 62
39) Benzo(g,h,i)perylene	27.31	276	10502	0.128	ng	96

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

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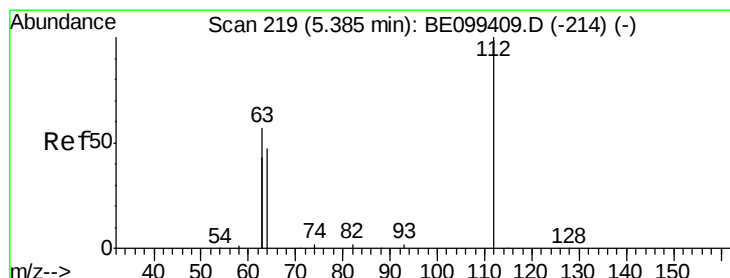
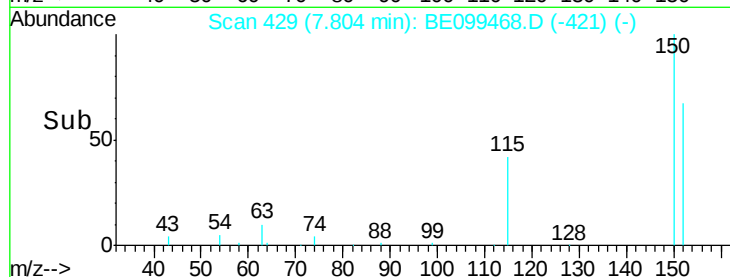
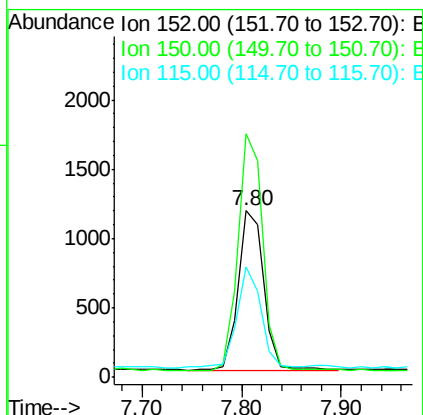
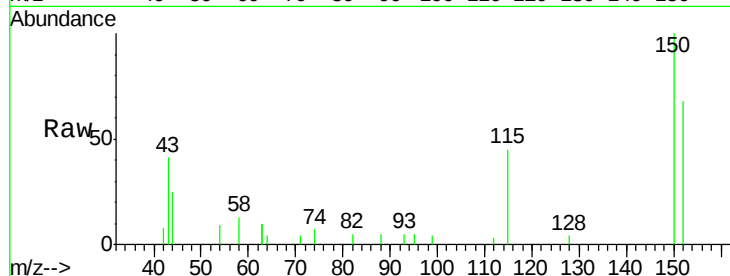


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.80 min Scan# 429
Delta R.T. -0.01 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

Instrument :
BNA_E
ClientSampleId :
PST-001-B014-042519

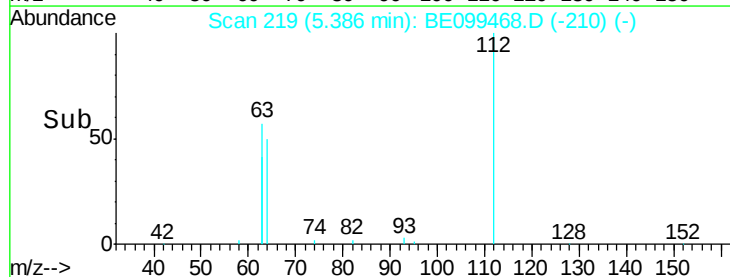
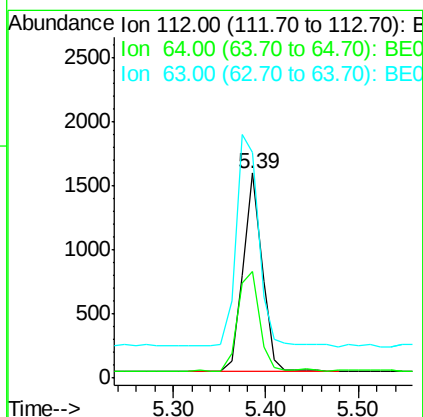
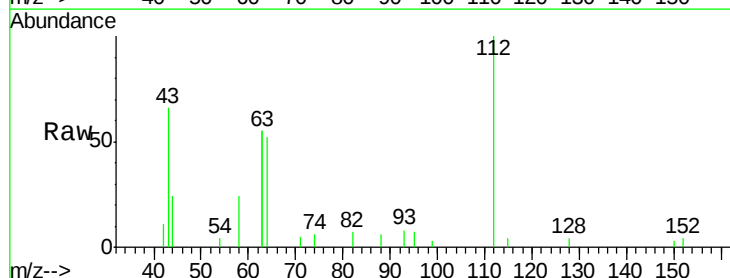
Tot Ion:152 Resp: 2033
Ion Ratio Lower Upper
152 100
150 146.1 104.8 157.2
115 65.9 46.6 69.8

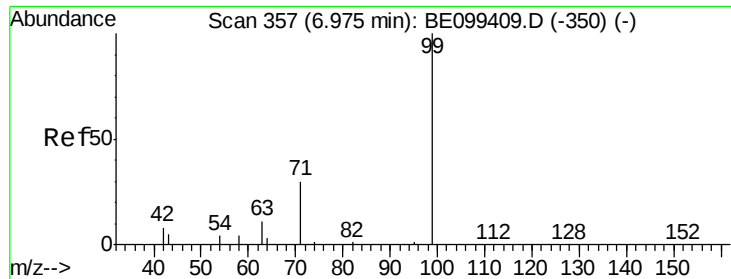


#4

2-Fluorophenol
Concen: 0.402 ng
RT: 5.39 min Scan# 219
Delta R.T. 0.00 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

Tgt Ion:112 Resp: 2260
Ion Ratio Lower Upper
112 100
64 57.2 47.4 71.0
63 126.9 104.3 156.5





#5

Phenol-d6

Concen: 0.449 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

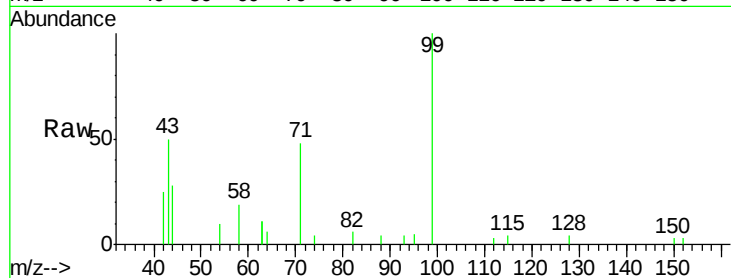
Tot Ion: 99 Resp: 3355

Ion Ratio Lower Upper

99 100

42 19.9 14.9 22.3

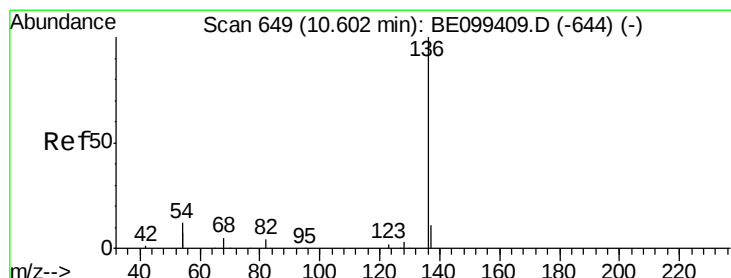
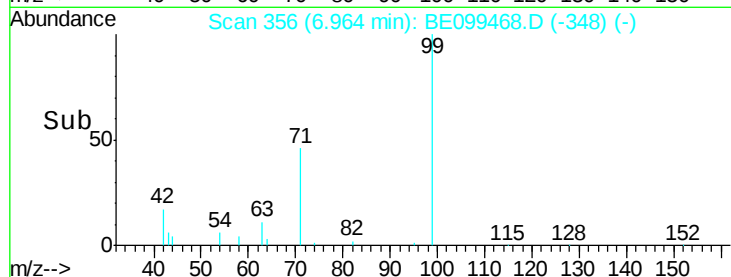
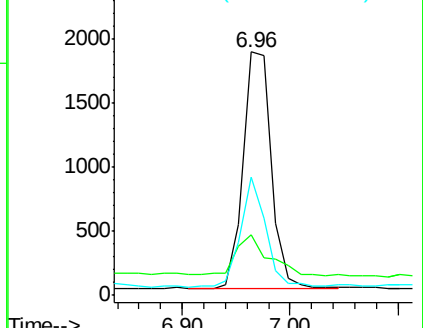
71 40.7 33.0 49.6



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Tgt Ion: 136 Resp: 7546

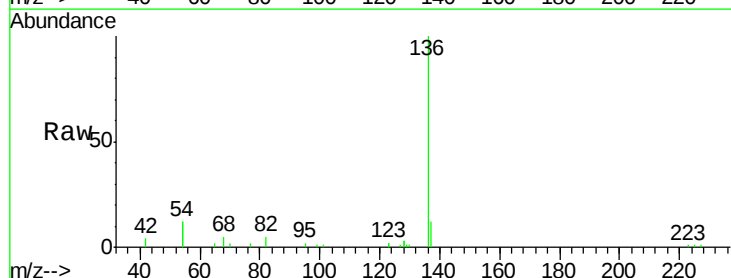
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 24.1 18.5 27.7

68 5.5 4.7 7.1

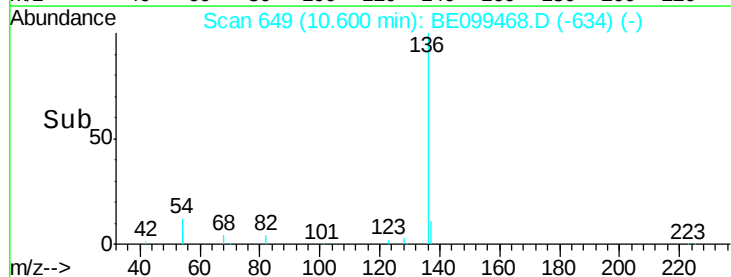
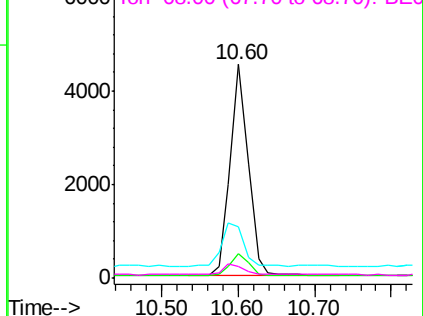


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.381 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

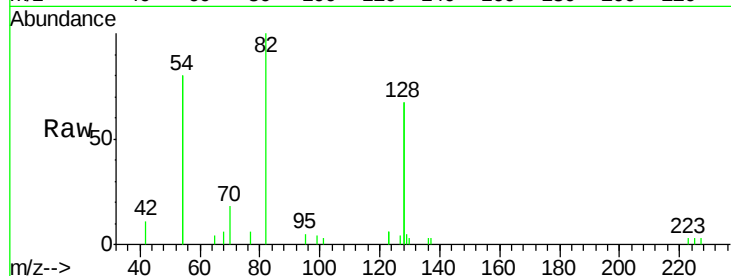
Tot Ion: 82 Resp: 2692

Ion Ratio Lower Upper

82 100

128 134.8 107.0 160.4

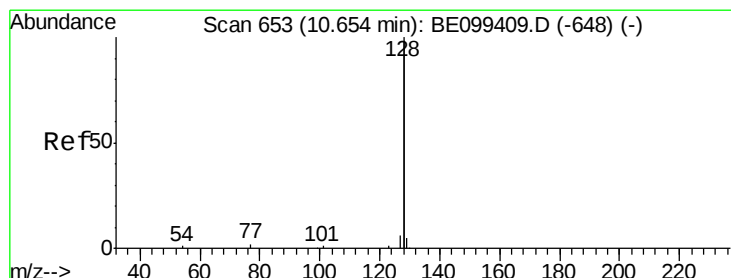
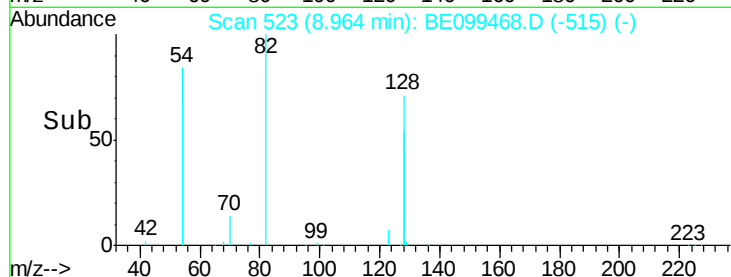
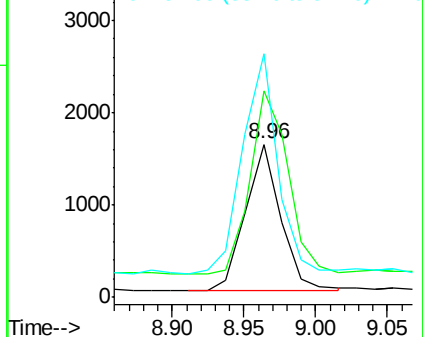
54 159.2 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.023 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

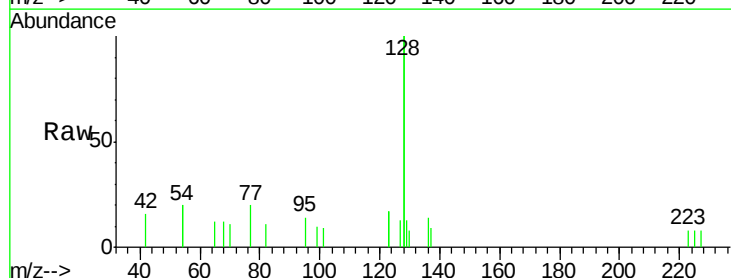
Tgt Ion: 128 Resp: 1871

Ion Ratio Lower Upper

128 100

129 6.6 2.4 3.6#

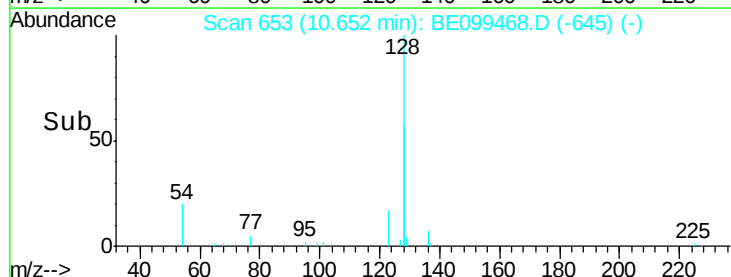
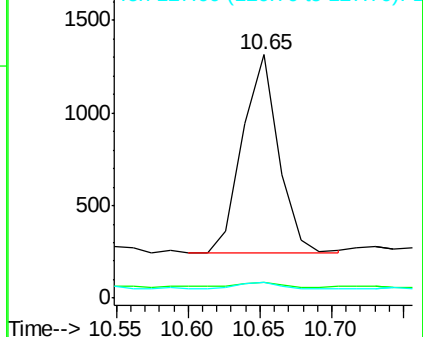
127 6.7 2.8 4.2#

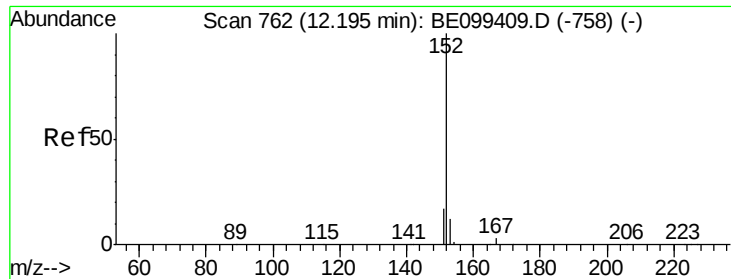


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

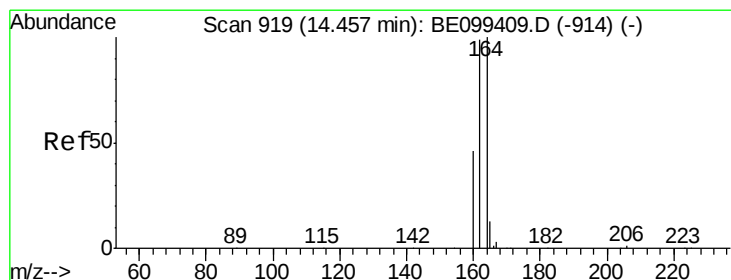
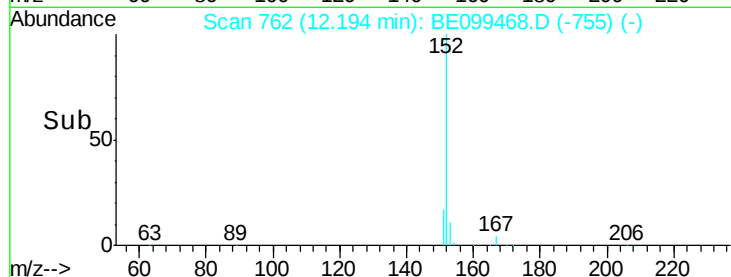
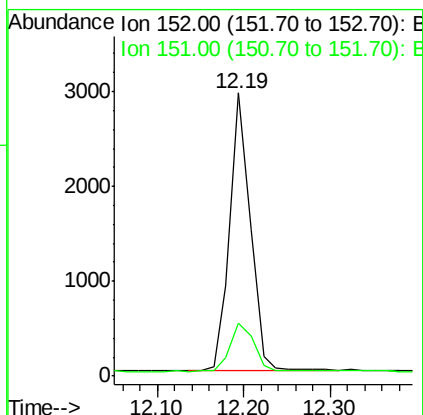
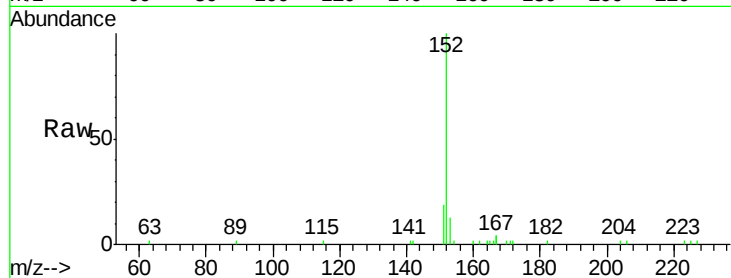




#11
 2-Methylnaphthalene-d10
 Concen: 0.357 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099468.D
 Acq: 1 May 2019 17:45

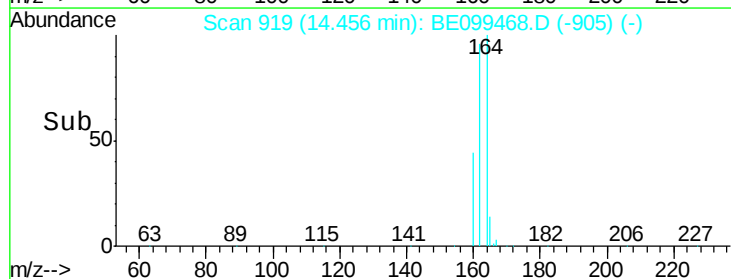
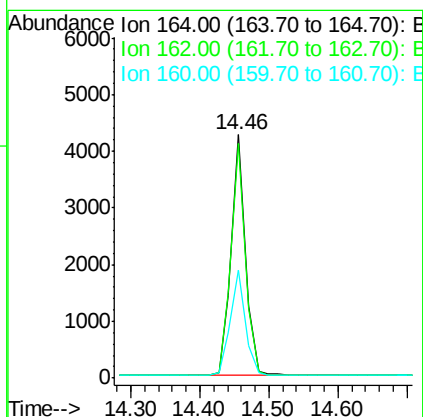
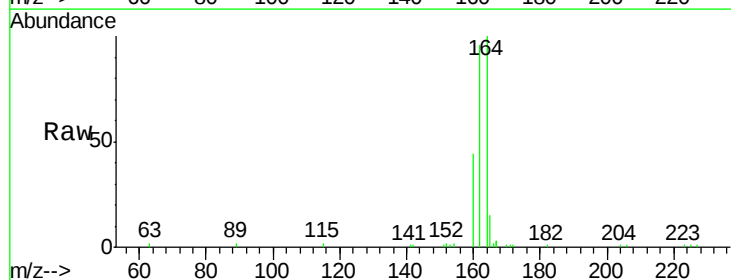
Instrument :
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 PST-001-B014-042519

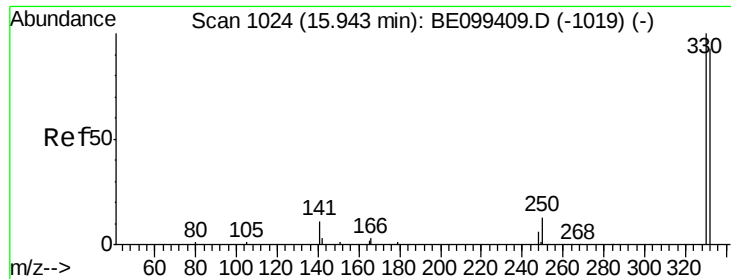
Tot Ion:152 Resp: 4850
 Ion Ratio Lower Upper
 152 100
 151 20.3 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099468.D
 Acq: 1 May 2019 17:45

Tgt Ion:164 Resp: 6120
 Ion Ratio Lower Upper
 164 100
 162 96.2 79.0 118.4
 160 44.1 37.0 55.4

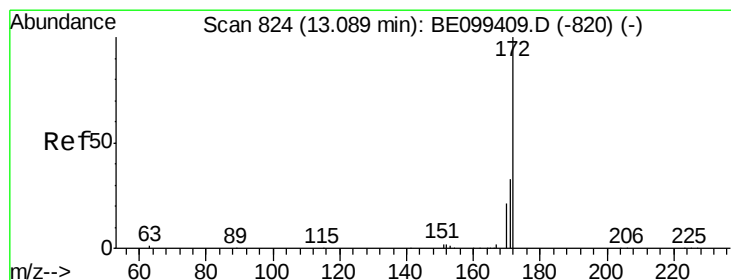
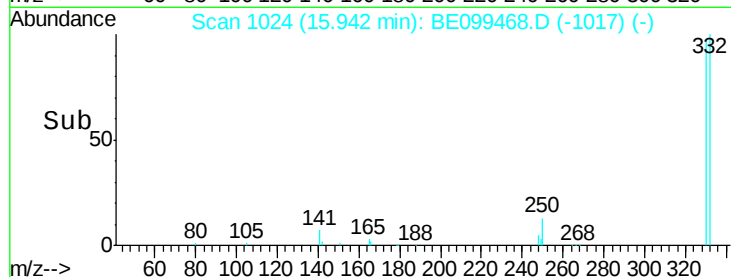
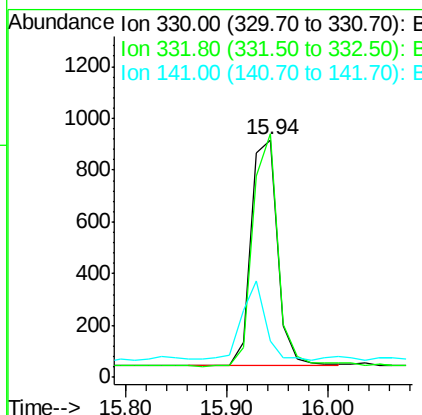




#14
 2,4,6-Tribromophenol
 Concen: 0.412 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099468.D
 Acq: 1 May 2019 17:45

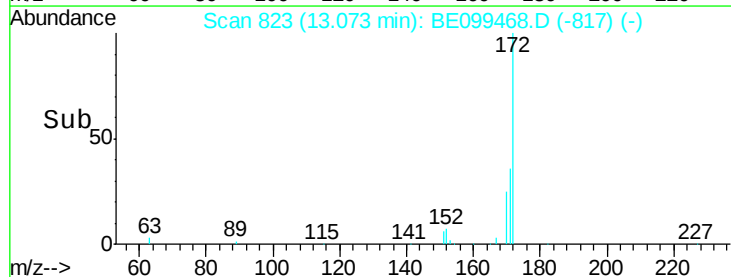
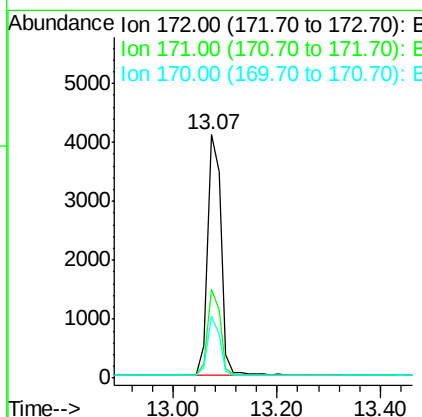
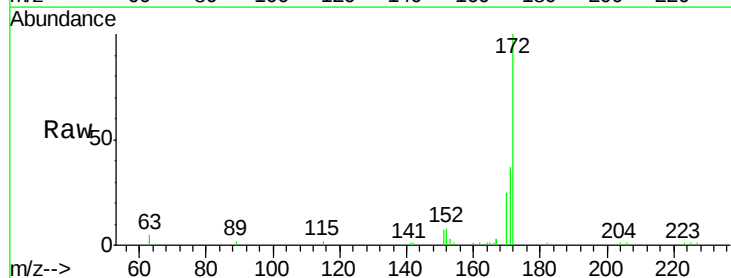
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 ClientSampleId :
 PST-001-B014-042519

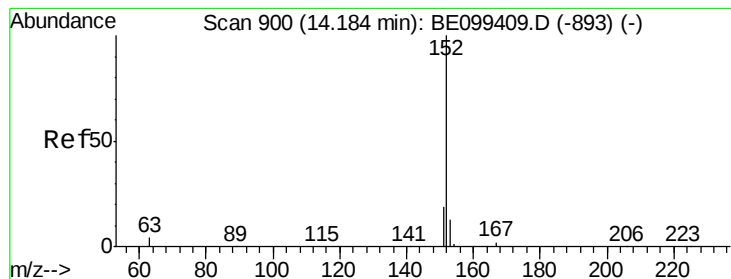
Tot Ion:330 Resp: 1589
 Ion Ratio Lower Upper
 330 100
 332 100.4 71.5 107.3
 141 31.7 24.0 36.0



#15
 2-Fluorobiphenyl
 Concen: 0.320 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.02 min
 Lab File: BE099468.D
 Acq: 1 May 2019 17:45

Tgt Ion:172 Resp: 7468
 Ion Ratio Lower Upper
 172 100
 171 36.6 26.6 39.8
 170 25.4 17.0 25.6





#16

Acenaphthylene

Concen: 0.025 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

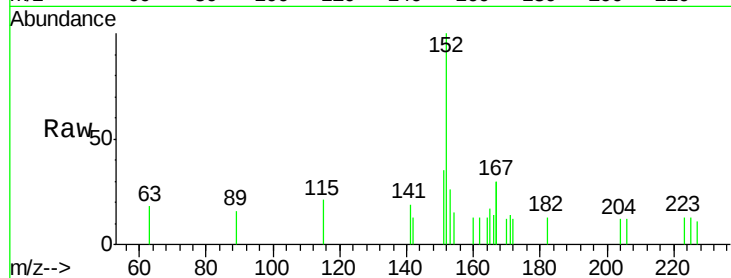
Tot Ion:152 Resp: 753

Ion Ratio Lower Upper

152 100

151 25.5 15.4 23.2#

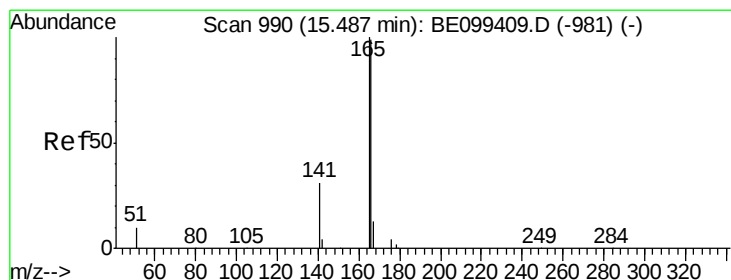
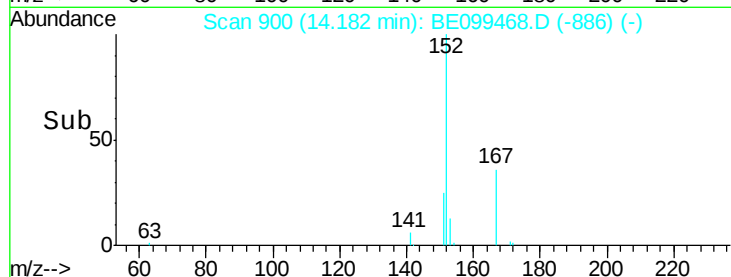
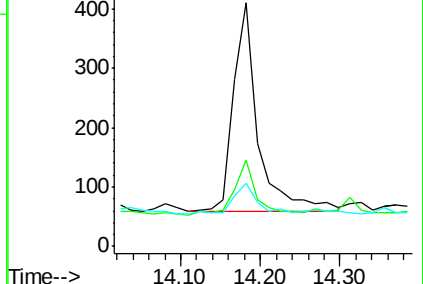
153 15.5 9.8 14.6#



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



#18

Fluorene

Concen: 0.020 ng

RT: 15.49 min Scan# 990

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

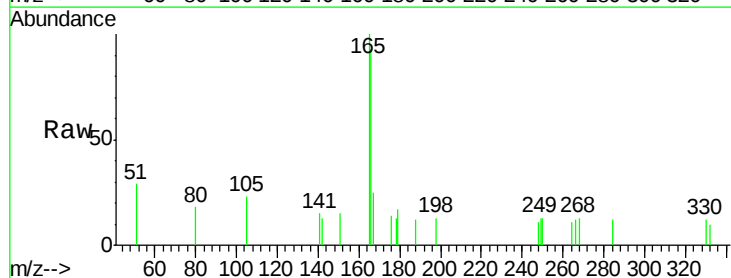
Tgt Ion:166 Resp: 516

Ion Ratio Lower Upper

166 100

165 118.0 80.3 120.5

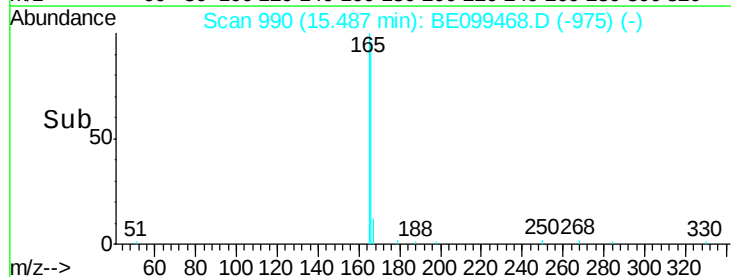
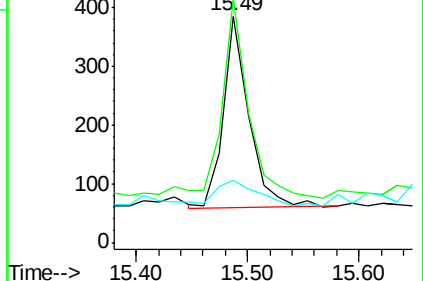
167 22.5 10.7 16.1#

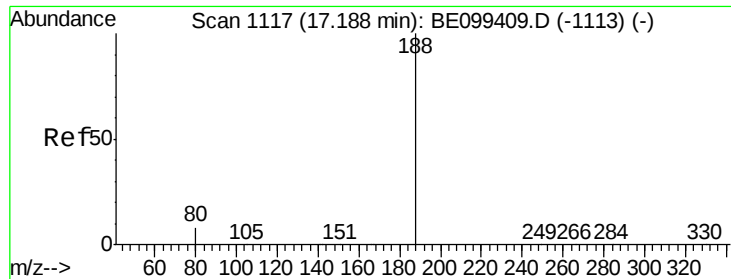


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

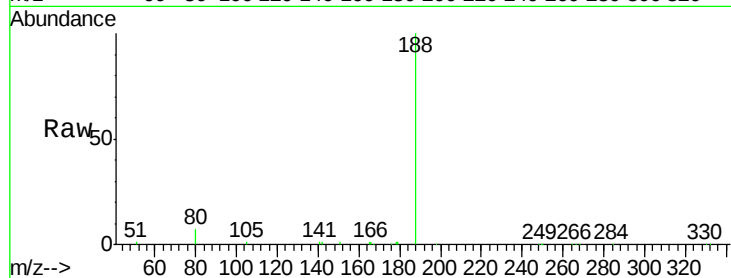
Tot Ion:188 Resp: 20234

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

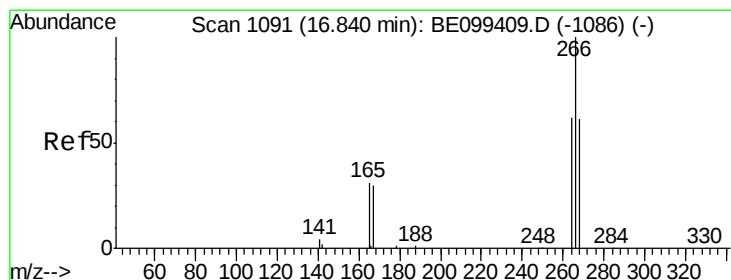
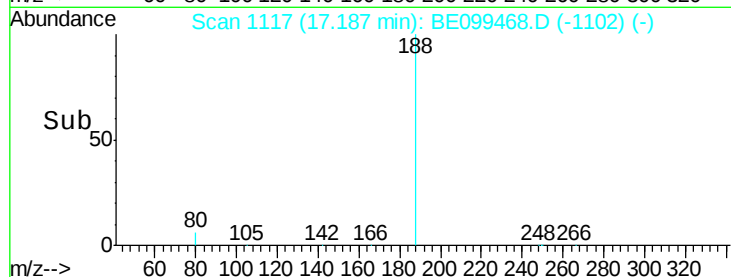
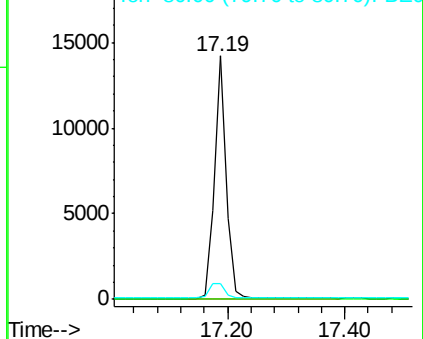
80 6.6 6.7 10.1#



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: 0.217 ng

RT: 16.79 min Scan# 1087

Delta R.T. -0.05 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

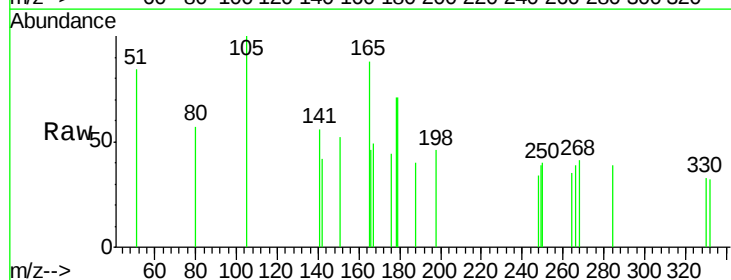
Tgt Ion:266 Resp: 6

Ion Ratio Lower Upper

266 100

264 90.7 50.8 76.2#

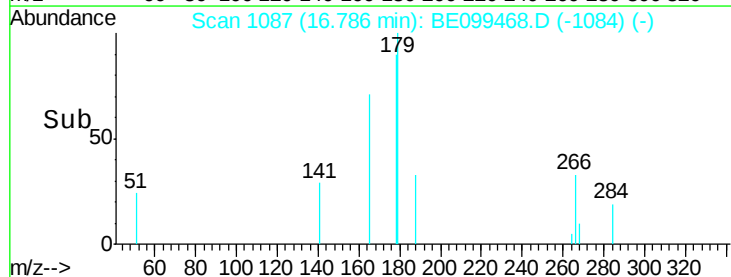
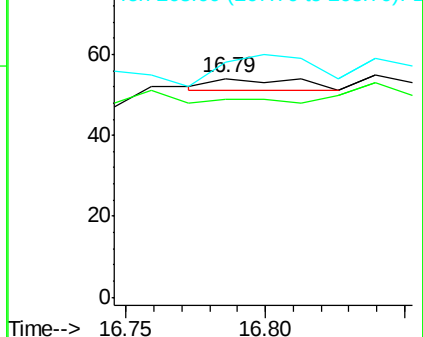
268 107.4 50.5 75.7#

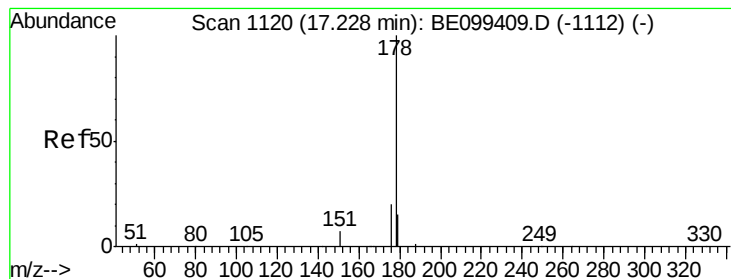


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.274 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

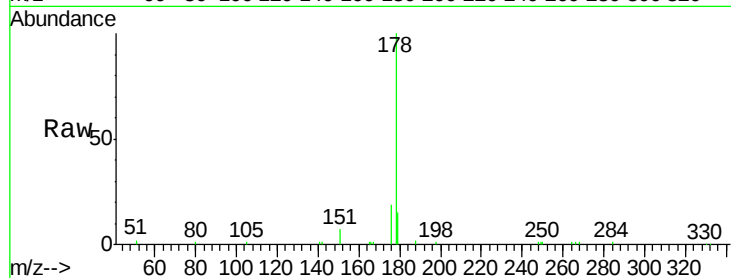
Tot Ion:178 Resp: 14293

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

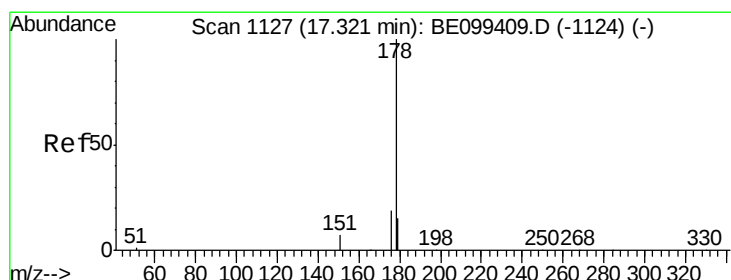
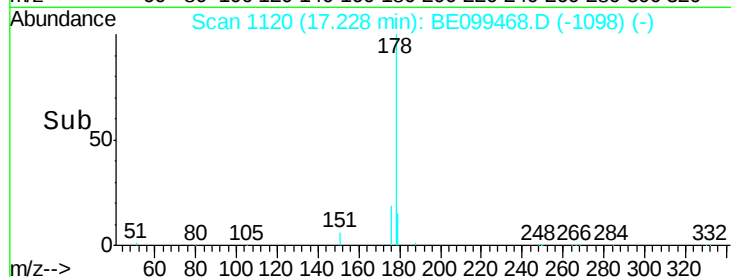
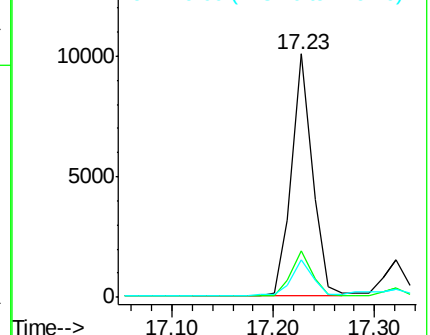
179 15.5 12.0 18.0



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



#24

Anthracene

Concen: 0.040 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

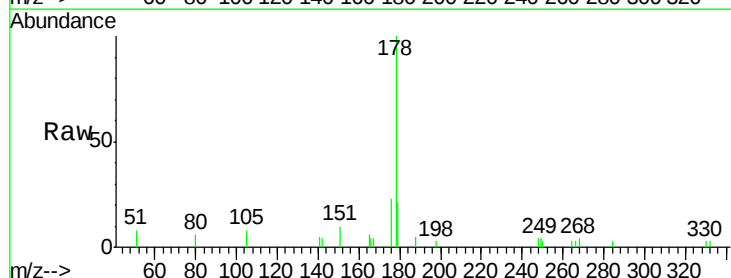
Tgt Ion:178 Resp: 1990

Ion Ratio Lower Upper

178 100

176 24.2 14.9 22.3#

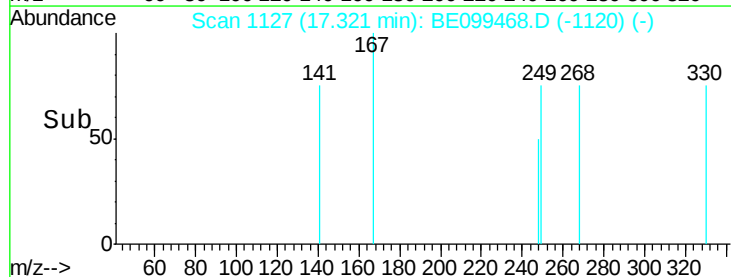
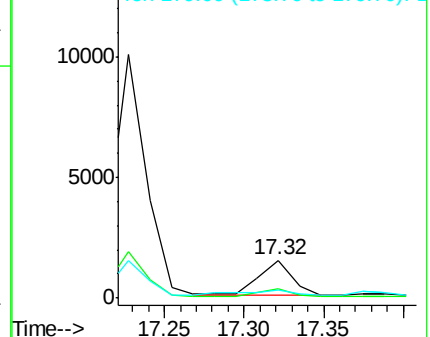
179 23.4 11.9 17.9#

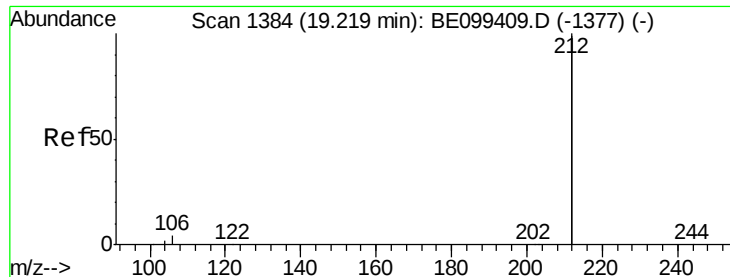


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.331 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

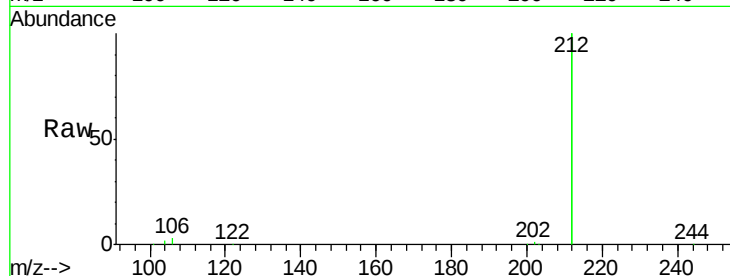
Tot Ion:212 Resp: 90213

Ion Ratio Lower Upper

212 100

106 1.9 1.5 2.3

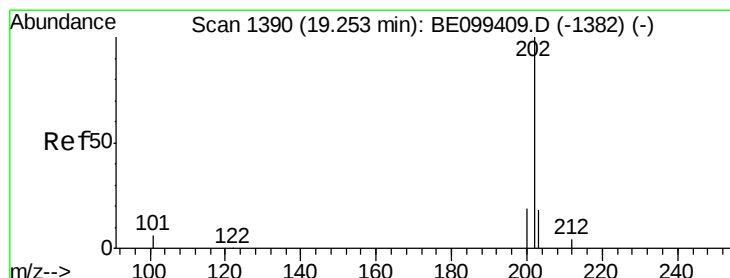
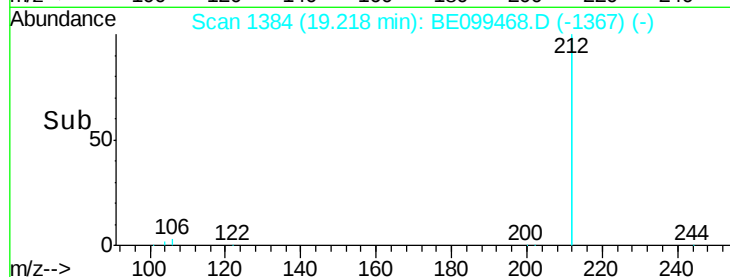
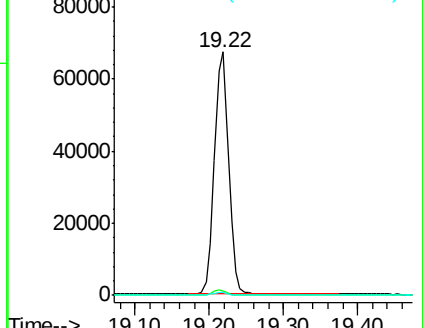
104 1.0 0.9 1.3



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: 0.407 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

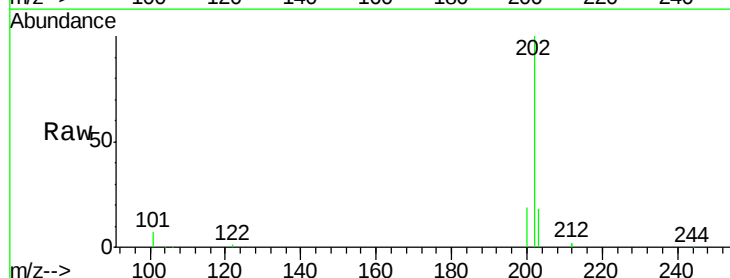
Tgt Ion:202 Resp: 31801

Ion Ratio Lower Upper

202 100

101 7.0 5.4 8.0

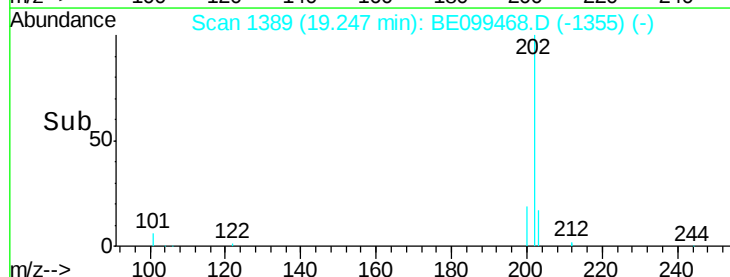
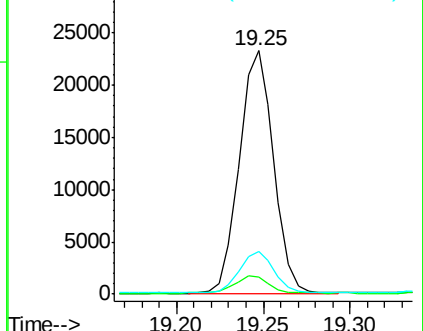
203 17.2 13.9 20.9

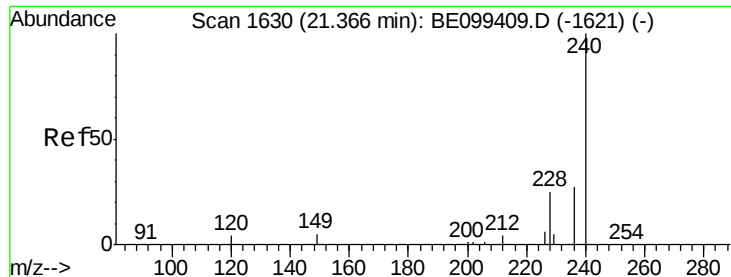


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.36 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

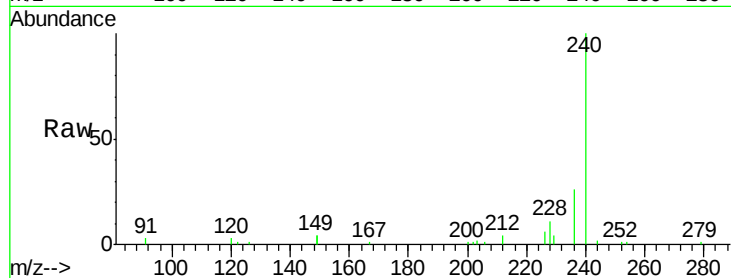
Tot Ion:240 Resp: 25844

Ion Ratio Lower Upper

240 100

120 3.2 4.0 6.0#

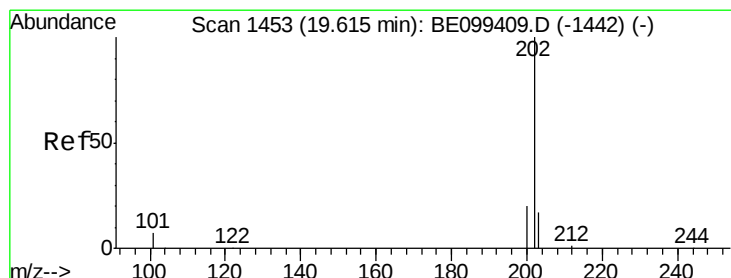
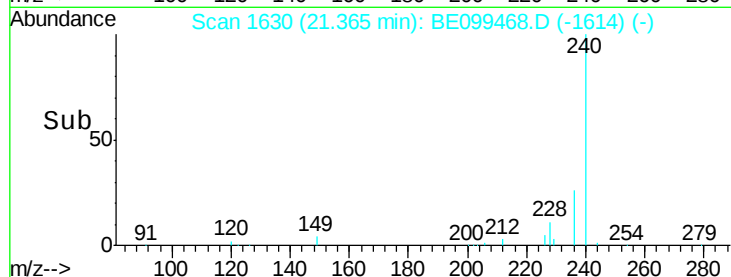
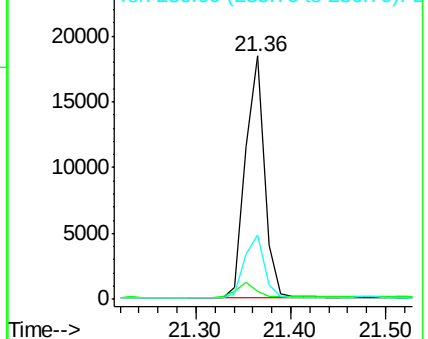
236 26.4 22.0 33.0



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



#28

Pyrene

Concen: 0.440 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

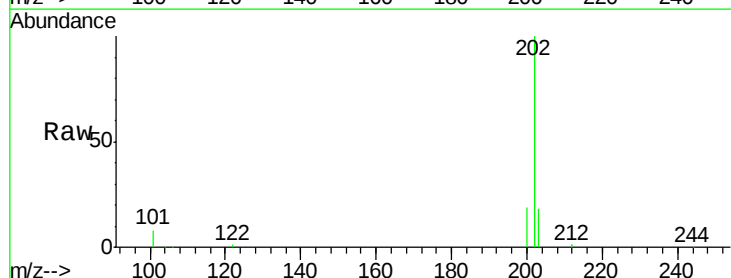
Tgt Ion:202 Resp: 29624

Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

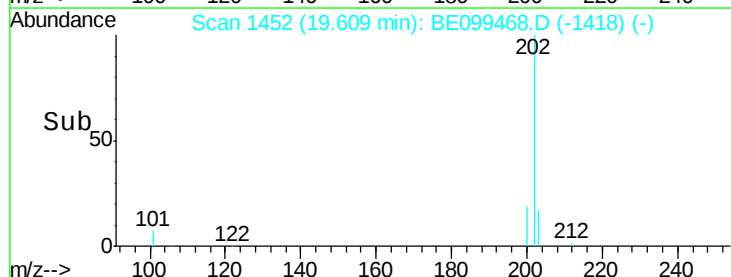
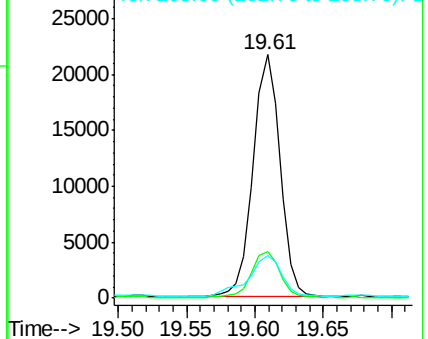
203 21.1 13.9 20.9#

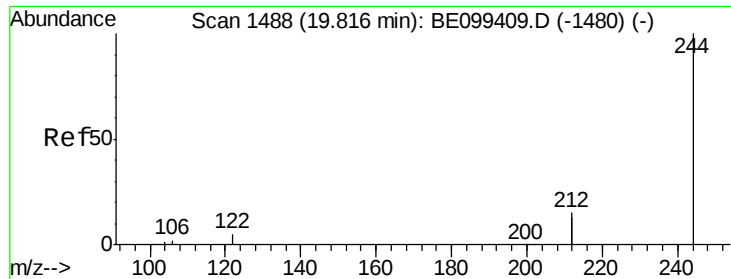


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.382 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

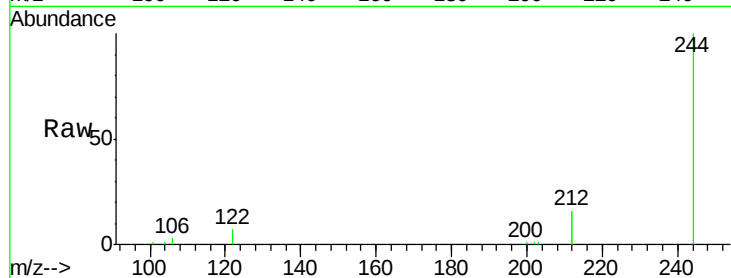
Tot Ion:244 Resp: 18080

Ion Ratio Lower Upper

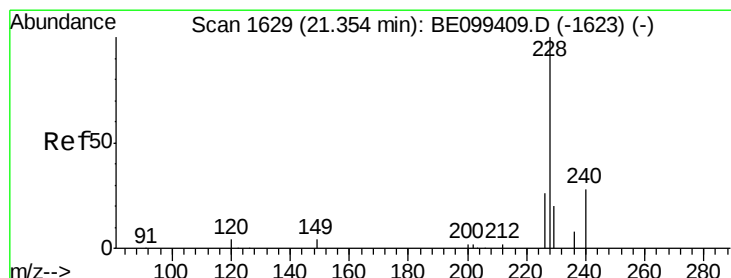
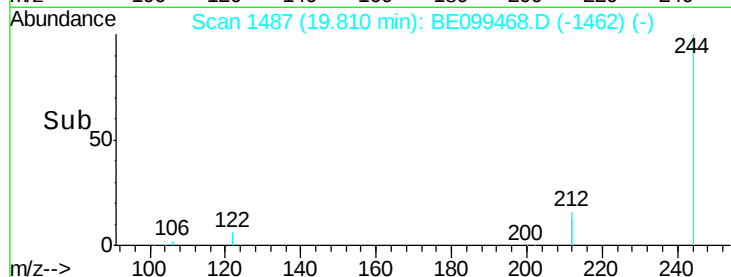
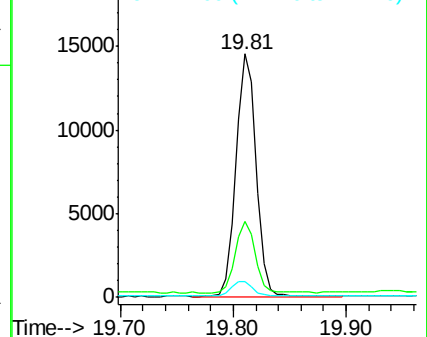
244 100

212 31.3 23.2 34.8

122 6.5 4.2 6.4#



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



#30

Benzo(a)anthracene

Concen: 0.229 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

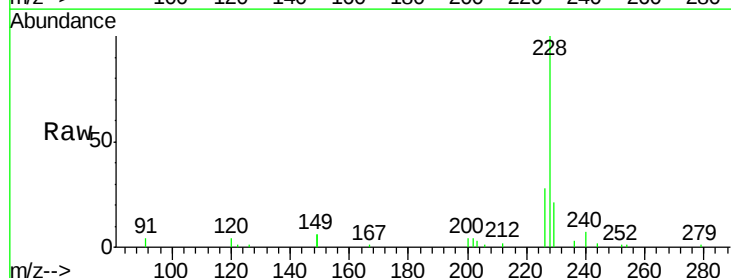
Tgt Ion:228 Resp: 18836

Ion Ratio Lower Upper

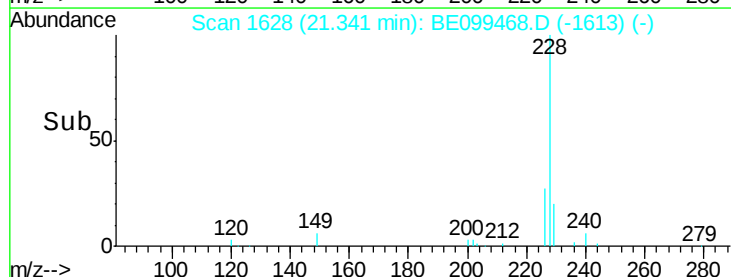
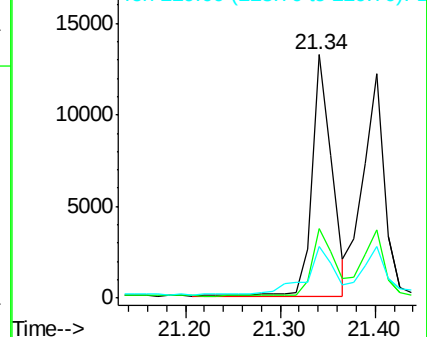
228 100

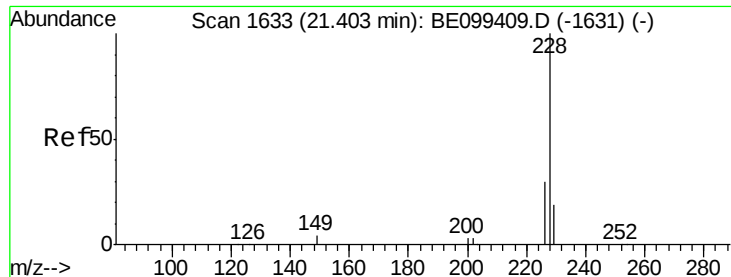
226 28.4 21.0 31.6

229 21.5 16.6 25.0



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





#31

Chrysene

Concen: 0.233 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

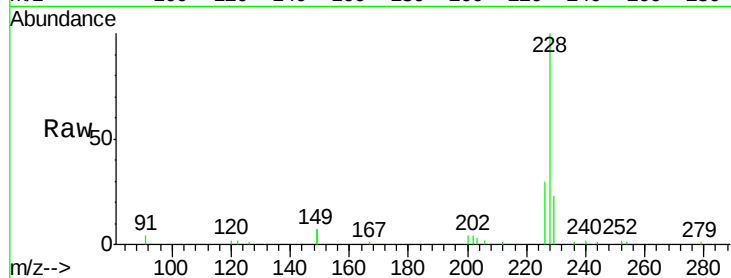
Tot Ion:228 Resp: 18800

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

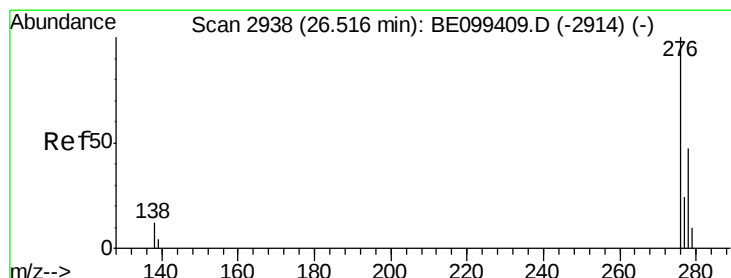
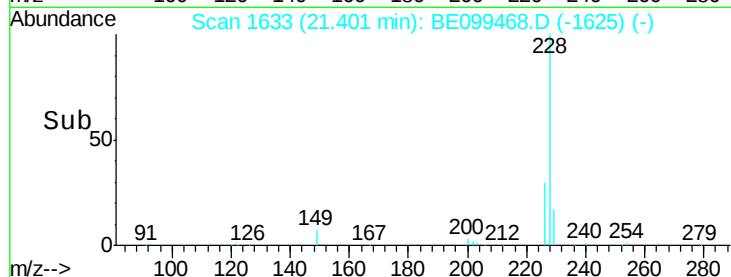
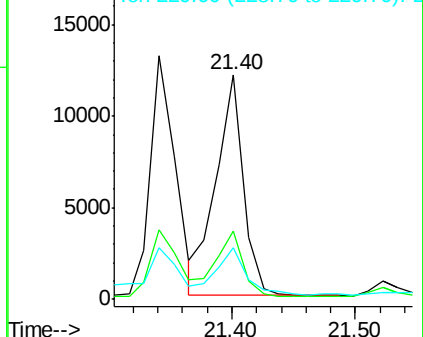
229 23.2 15.8 23.8



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.115 ng

RT: 26.50 min Scan# 2933

Delta R.T. -0.02 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

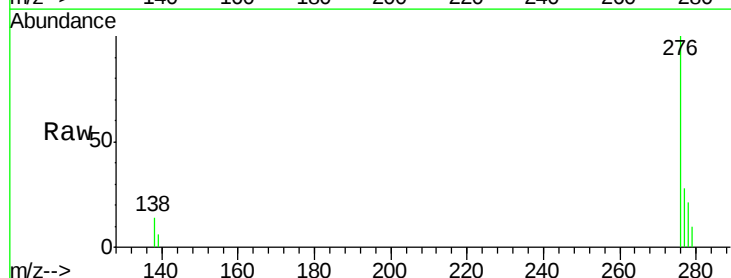
Tgt Ion:276 Resp: 10999

Ion Ratio Lower Upper

276 100

138 10.8 10.2 15.2

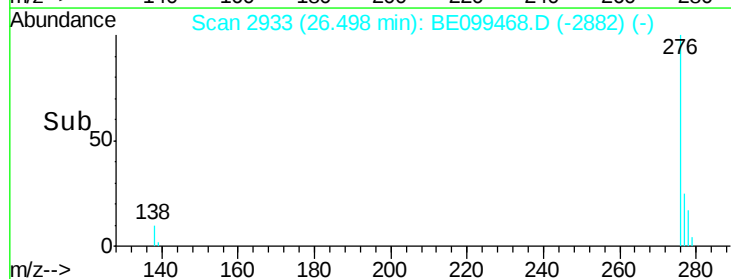
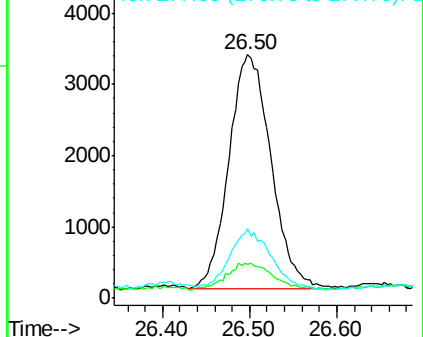
277 25.4 19.2 28.8

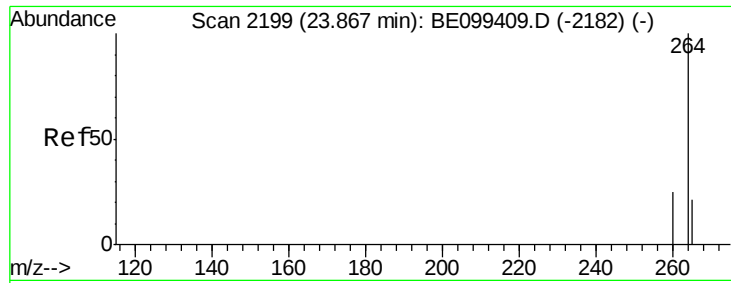


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

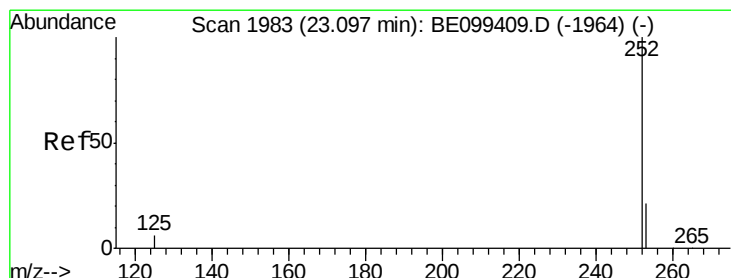
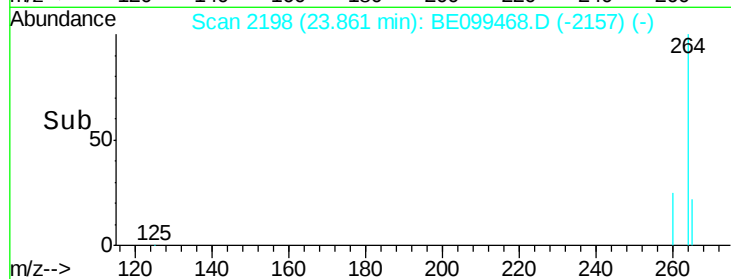
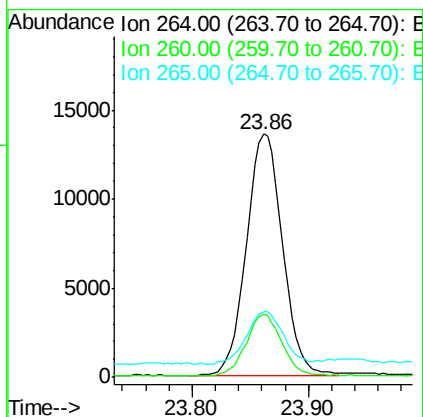
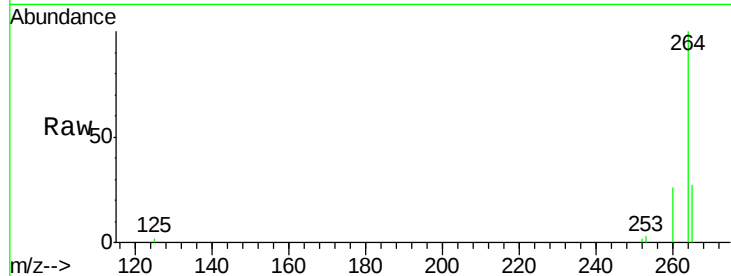




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2198
Delta R.T. -0.01 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

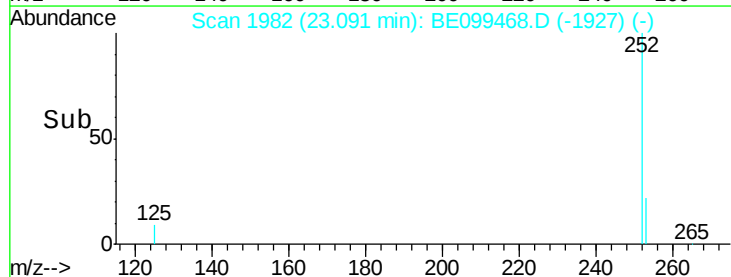
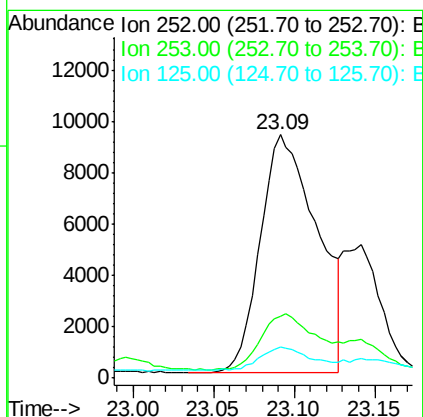
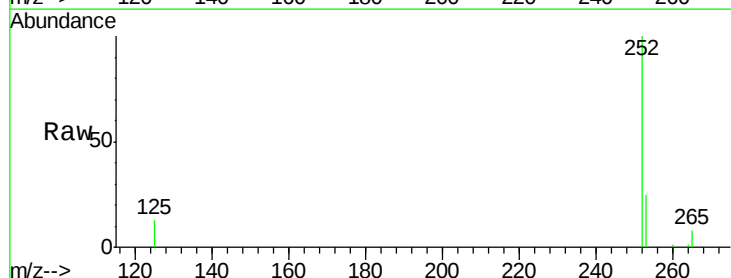
Instrument :
BNA_E
ClientSampleId :
PST-001-B014-042519

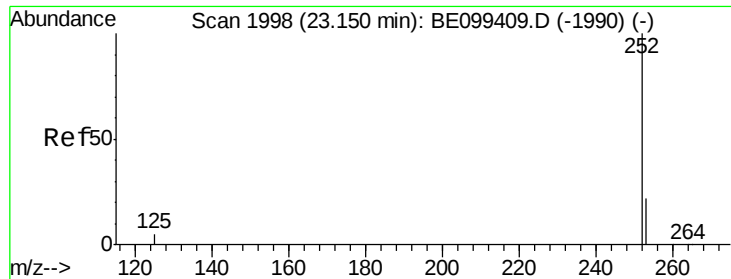
Tot Ion:264 Resp: 29325
Ion Ratio Lower Upper
264 100
260 26.0 20.2 30.2
265 27.2 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.271 ng
RT: 23.09 min Scan# 1982
Delta R.T. -0.01 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

Tgt Ion:252 Resp: 22895
Ion Ratio Lower Upper
252 100
253 25.5 18.1 27.1
125 12.6 5.6 8.4#

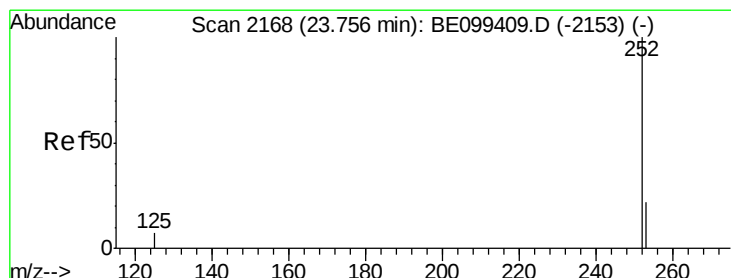
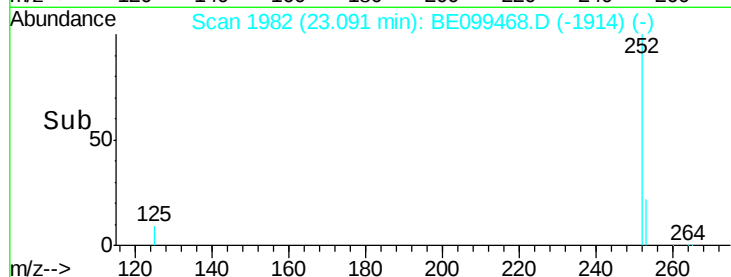
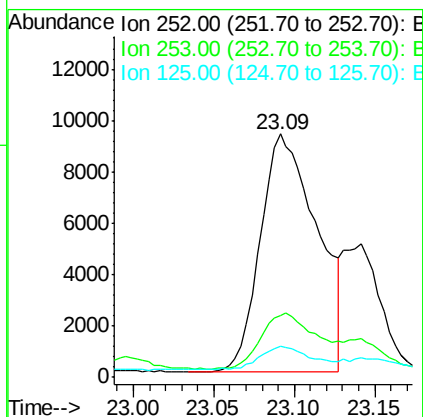
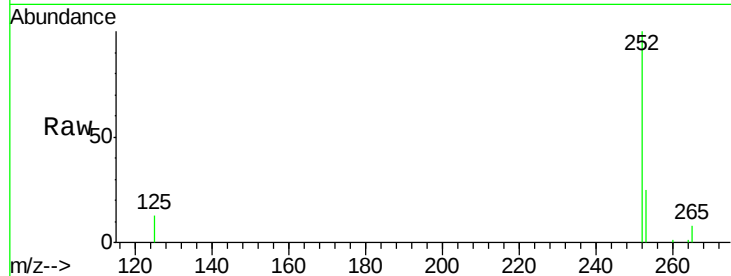




#36
Benzo(k)fluoranthene
Concen: 0.281 ng
RT: 23.09 min Scan# 1982
Delta R.T. -0.06 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

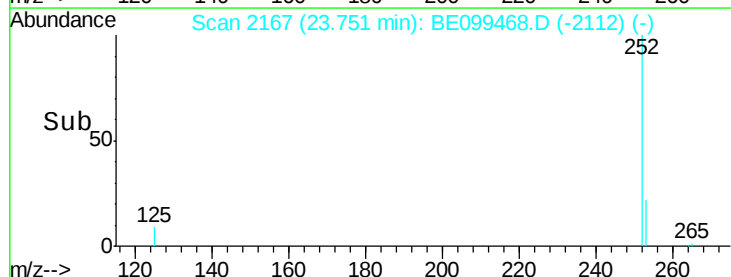
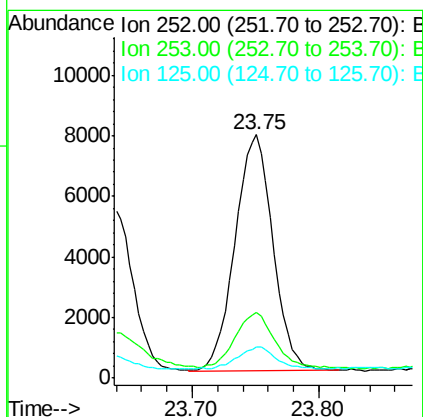
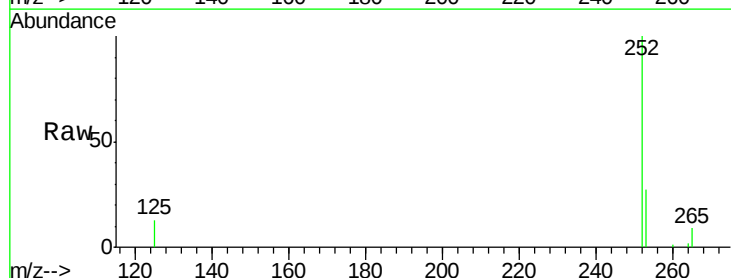
Instrument :
BNA_E
ClientSampleId :
PST-001-B014-042519

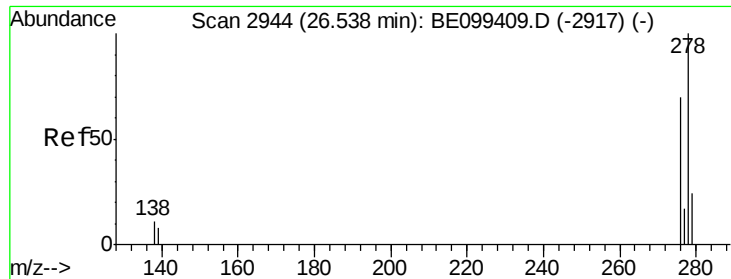
Tot Ion:252 Resp: 22895
Ion Ratio Lower Upper
252 100
253 25.5 18.4 27.6
125 12.6 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 0.202 ng
RT: 23.75 min Scan# 2167
Delta R.T. -0.01 min
Lab File: BE099468.D
Acq: 1 May 2019 17:45

Tgt Ion:252 Resp: 16184
Ion Ratio Lower Upper
252 100
253 27.0 18.9 28.3
125 12.7 6.7 10.1#





#38

Dibenzo(a,h)anthracene

Concen: 0.036 ng

RT: 26.52 min Scan# 2938

Delta R.T. -0.02 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

Instrument :

BNA_E

ClientSampleId :

PST-001-B014-042519

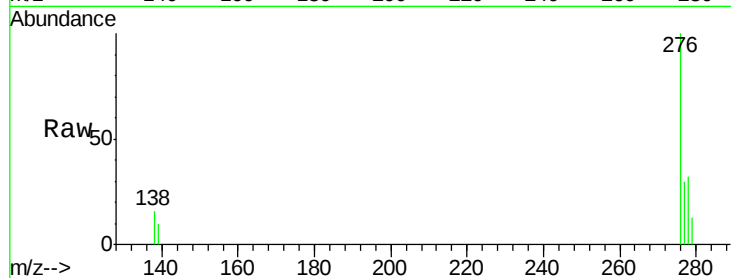
Tot Ion:278 Resp: 2927

Ion Ratio Lower Upper

278 100

139 29.6 7.7 11.5#

279 41.1 20.2 30.2#



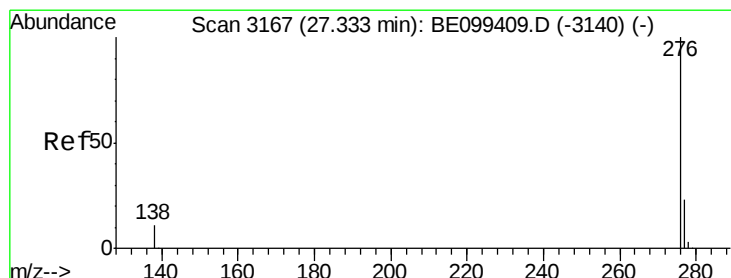
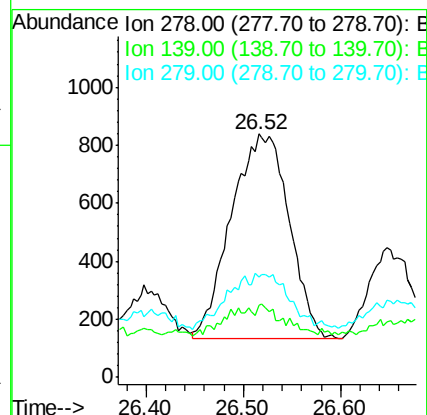
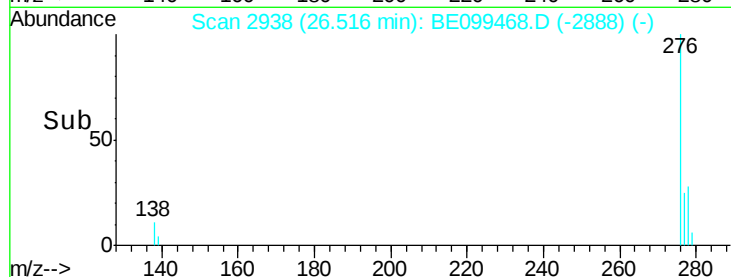
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

26.52

Time-->



#39

Benzo(g,h,i)perylene

Concen: 0.128 ng

RT: 27.31 min Scan# 3162

Delta R.T. -0.02 min

Lab File: BE099468.D

Acq: 1 May 2019 17:45

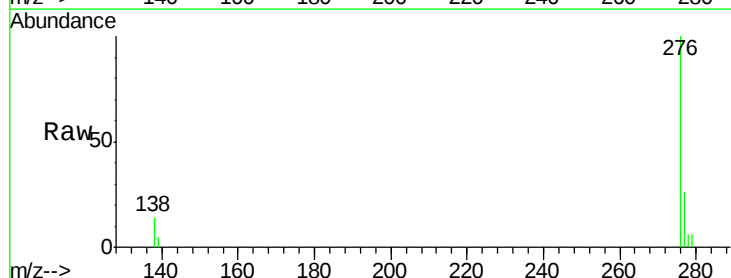
Tgt Ion:276 Resp: 10502

Ion Ratio Lower Upper

276 100

277 26.3 19.5 29.3

138 14.0 9.6 14.4



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

27.31

Time-->

