

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099521.D
 Acq On : 3 May 2019 8:31
 Operator : JU/SJ
 Sample : K2589-13
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B189-042419

Quant Time: May 03 13:24:31 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	2082	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	7899	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5983	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19196	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24286	0.40	ng	0.00
34) Perylene-d12	23.87	264	27398	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	1421	0.25	ng	0.00
5) Phenol-d6	6.97	99	2107	0.28	ng	0.00
8) Nitrobenzene-d5	8.96	82	1745	0.24	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	3139	0.22	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1044	0.28	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	4583	0.20	ng	0.00
25) Fluoranthene-d10	19.22	212	49078	0.19	ng	0.00
29) Terphenyl-d14	19.82	244	9841	0.22	ng	0.00

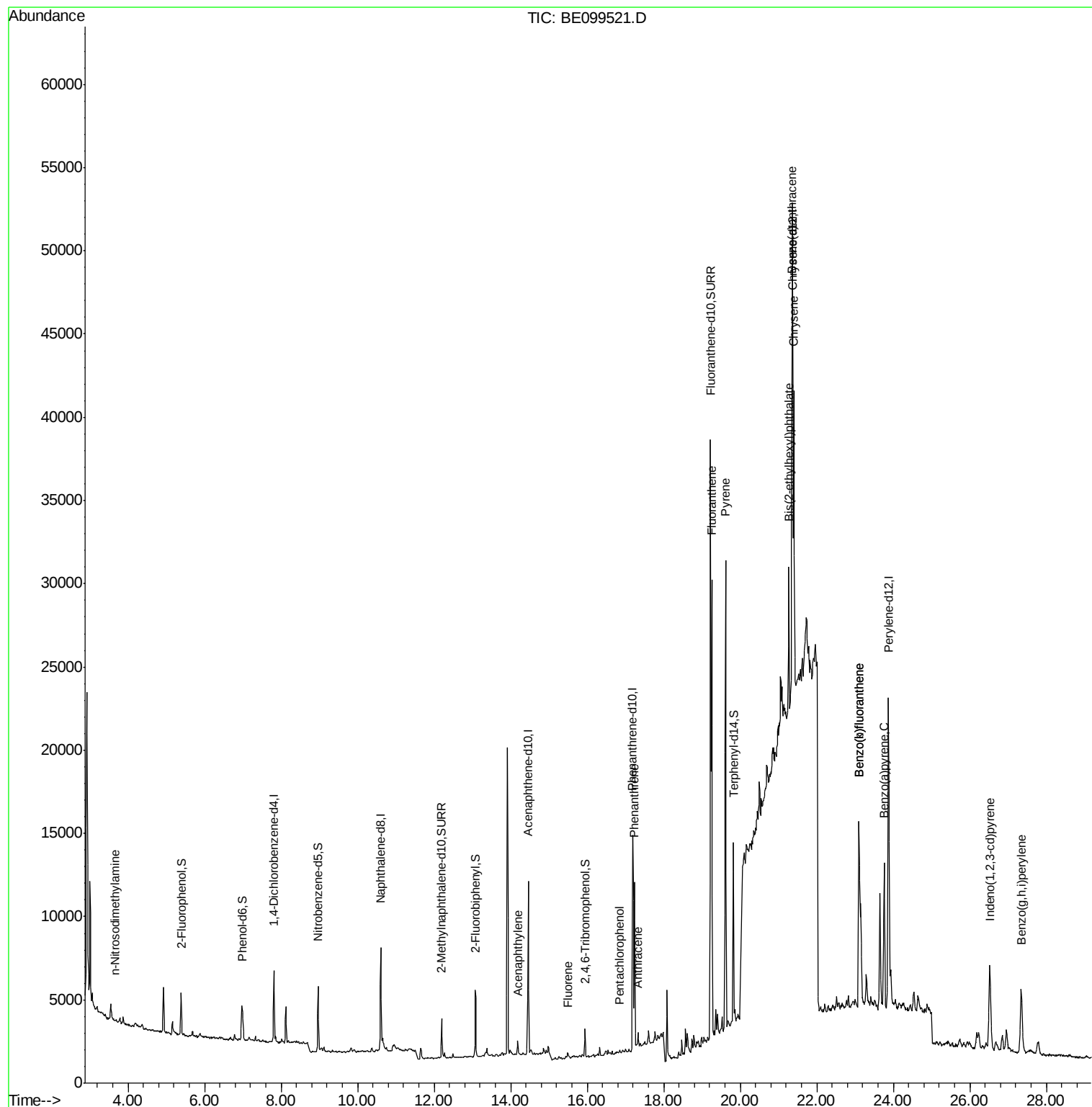
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.65	42	44	0.025	ng	# 1
16) Acenaphthylene	14.18	152	1221	0.042	ng	99
18) Fluorene	15.49	166	505	0.020	ng	# 86
22) Pentachlorophenol	16.84	266	81	0.229	ng	# 62
23) Phenanthrene	17.23	178	11403	0.230	ng	98
24) Anthracene	17.32	178	1092	0.023	ng	# 95
26) Fluoranthene	19.25	202	26664	0.359	ng	98
28) Pyrene	19.62	202	27738	0.438	ng	96
30) Benzo(a)anthracene	21.35	228	13914	0.180	ng	# 82
31) Chrysene	21.40	228	18779	0.248	ng	# 89
32) Bis(2-ethylhexyl)phthalate	21.27	149	11283	0.032	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.52	276	9908	0.111	ng	98
35) Benzo(b)fluoranthene	23.10	252	20591	0.261	ng	# 70
36) Benzo(k)fluoranthene	23.10	252	20591	0.270	ng	# 71
37) Benzo(a)pyrene	23.76	252	13533	0.181	ng	# 72
39) Benzo(g,h,i)perylene	27.35	276	10114	0.132	ng	# 86

(#) = 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: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

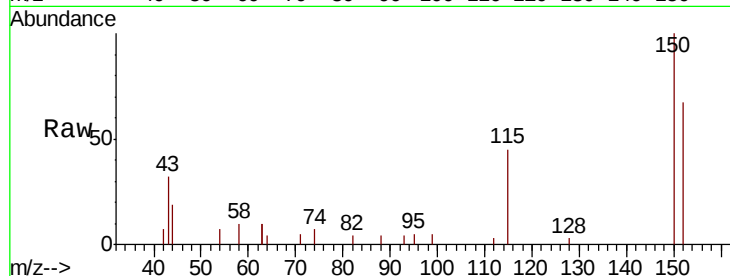
Tot Ion:152 Resp: 2082

Ion Ratio Lower Upper

152 100

150 148.3 104.8 157.2

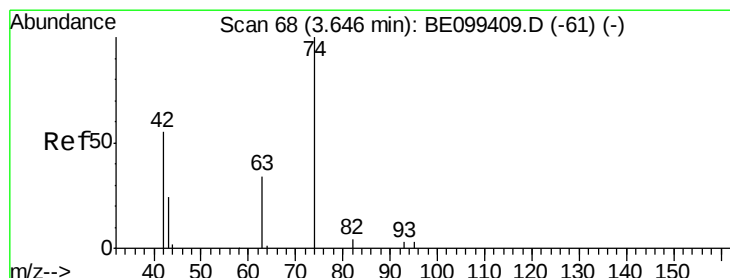
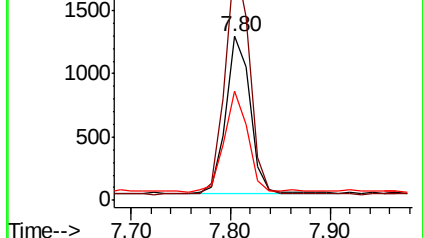
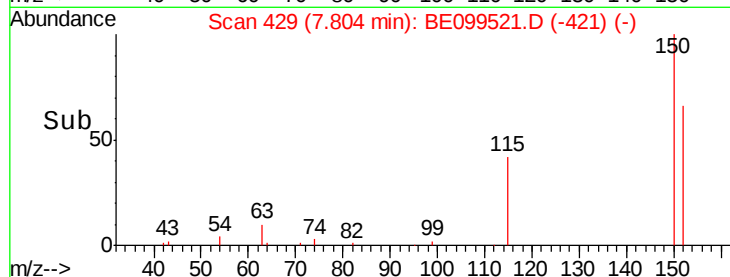
115 66.8 46.6 69.8



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



#3

n-Nitrosodimethylamine

Concen: 0.025 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

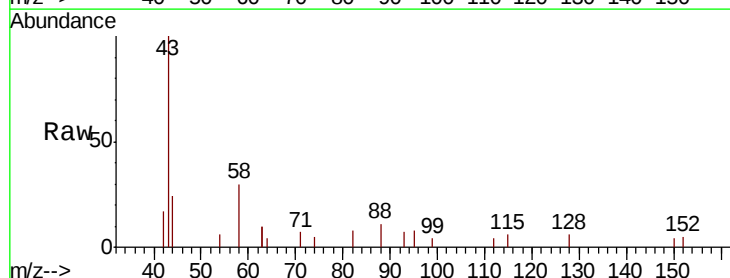
Tgt Ion: 42 Resp: 44

Ion Ratio Lower Upper

42 100

74 34.1 141.6 212.4#

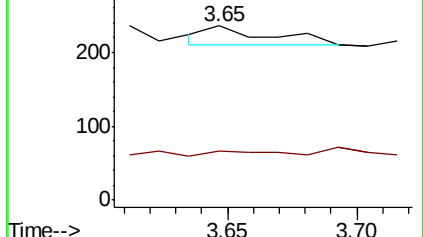
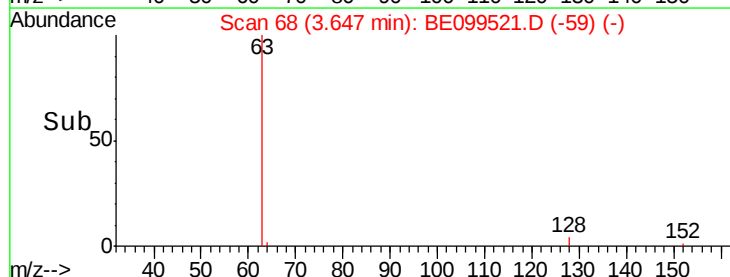
44 165.9 0.0 0.0#

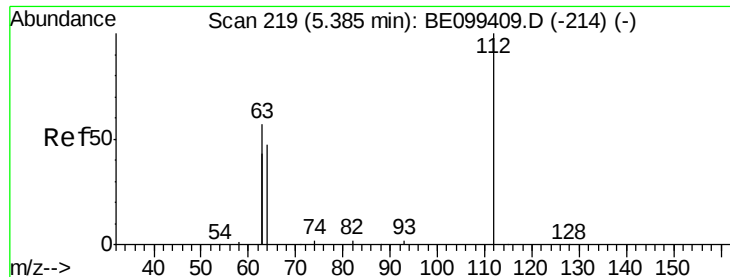


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.247 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

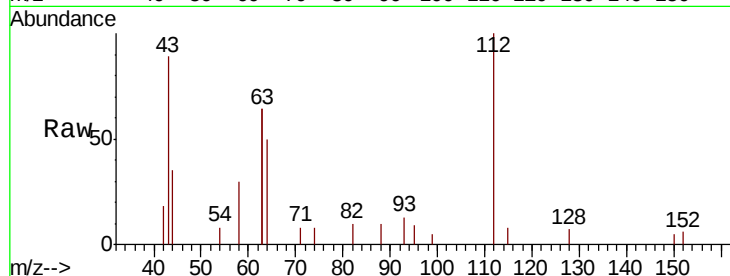
Tot Ion:112 Resp: 1421

Ion Ratio Lower Upper

112 100

64 55.7 47.4 71.0

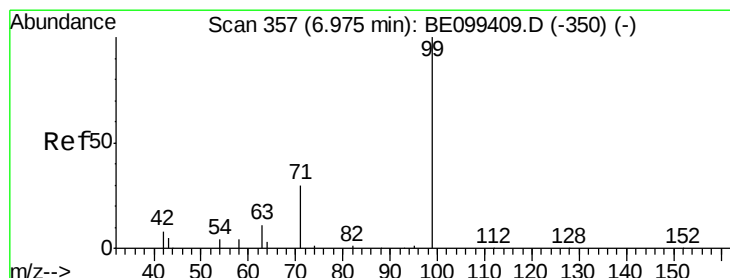
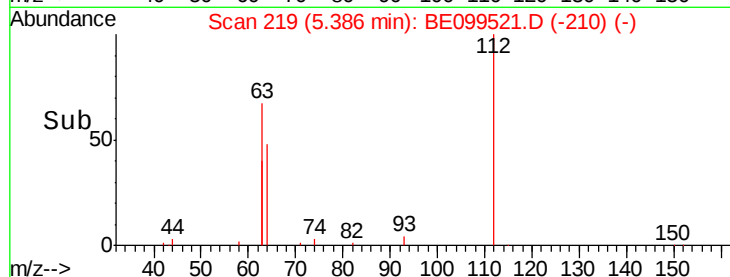
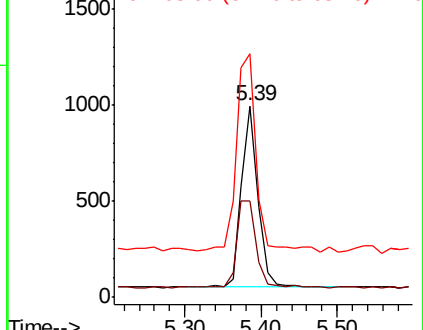
63 132.9 104.3 156.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.275 ng

RT: 6.97 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

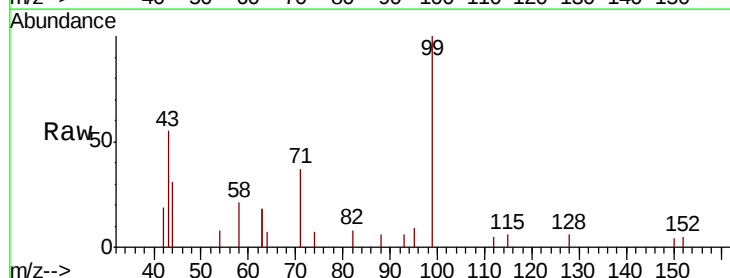
Tgt Ion: 99 Resp: 2107

Ion Ratio Lower Upper

99 100

42 18.2 14.9 22.3

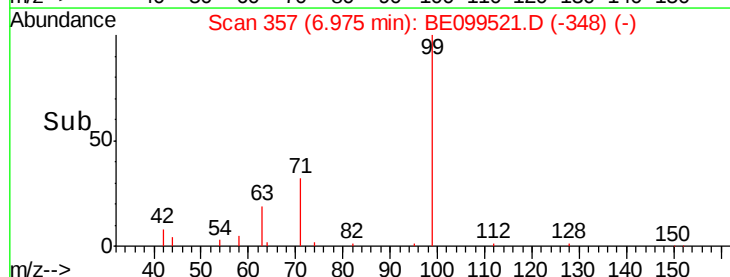
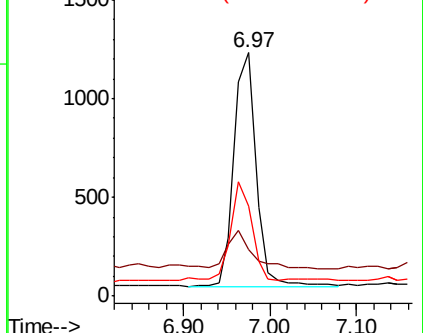
71 40.4 33.0 49.6

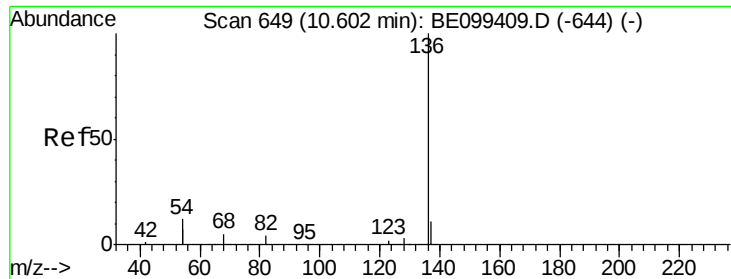


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

Tot Ion:136 Resp: 7899

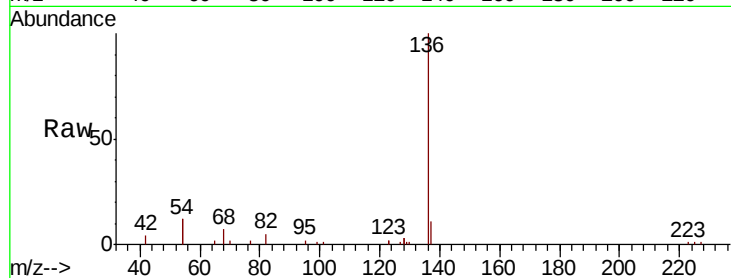
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 24.1 18.5 27.7

68 6.5 4.7 7.1

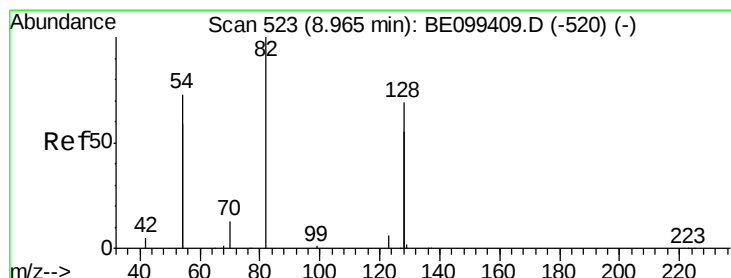
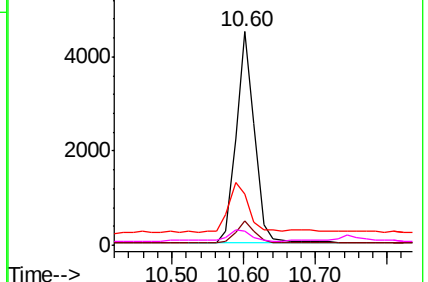
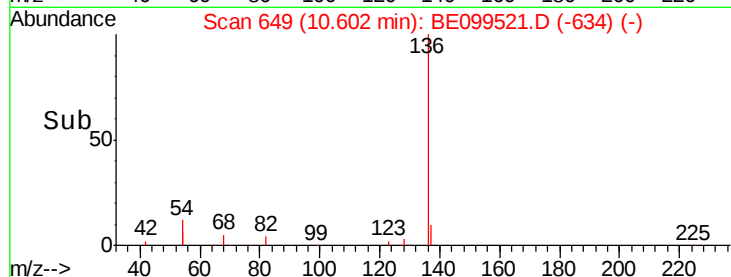


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.236 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

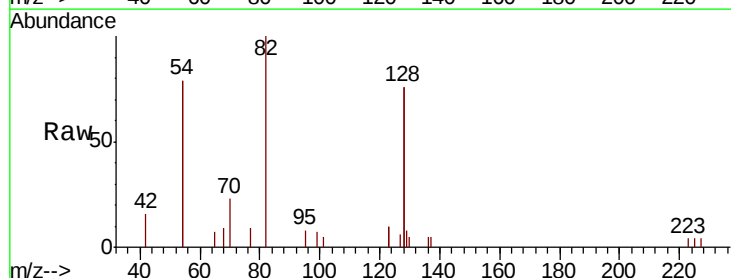
Tgt Ion: 82 Resp: 1745

Ion Ratio Lower Upper

82 100

128 151.2 107.0 160.4

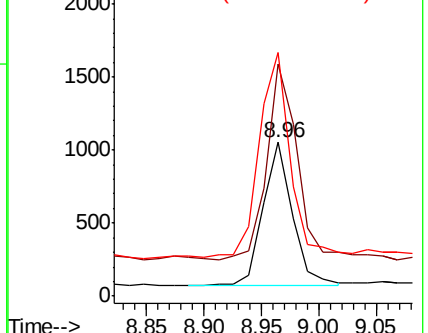
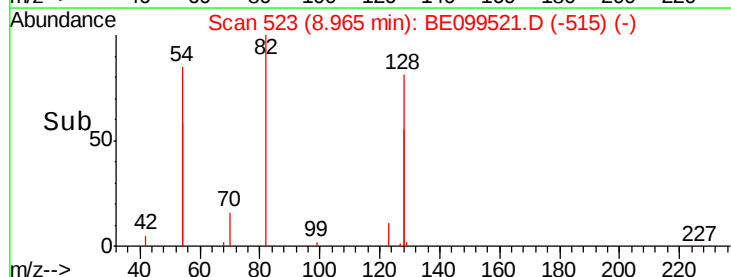
54 158.4 113.1 169.7

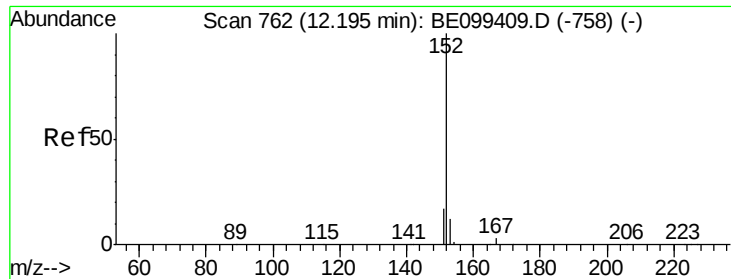


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

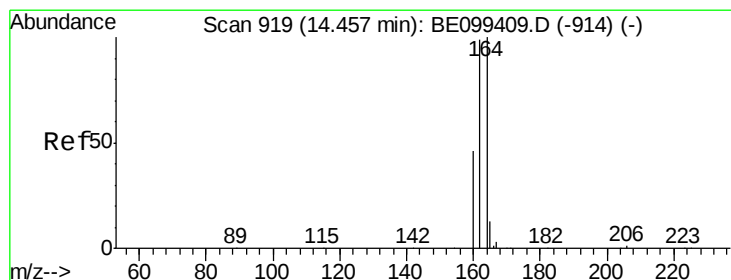
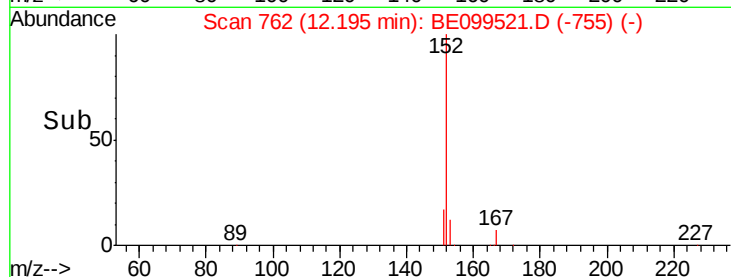
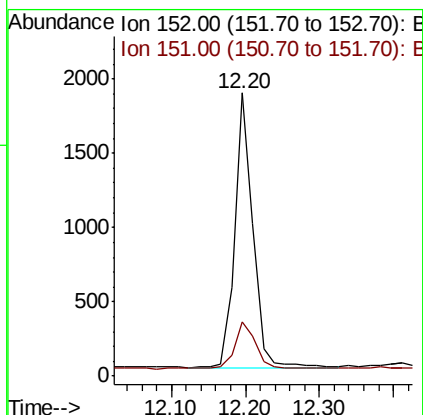
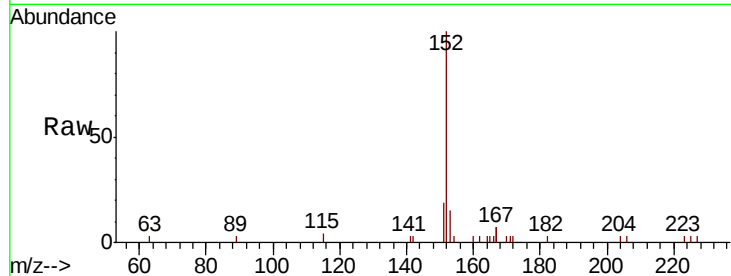




#11
 2-Methylnaphthalene-d10
 Concen: 0.221 ng
 RT: 12.20 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

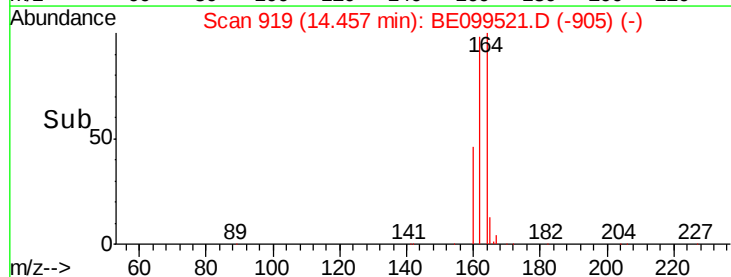
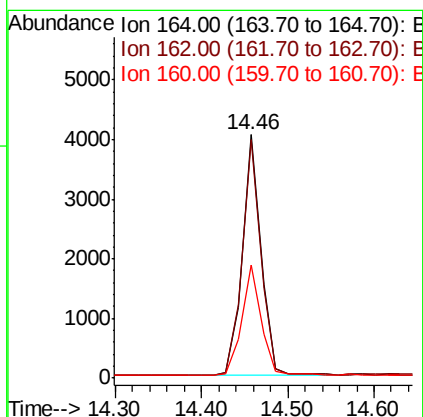
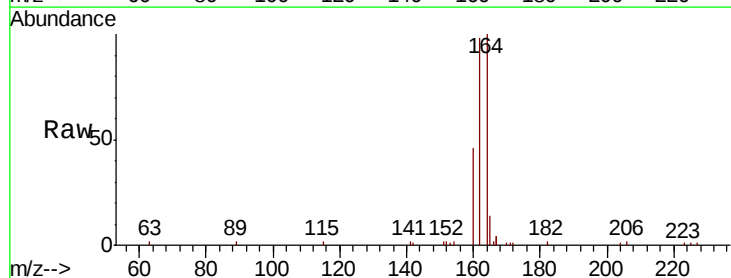
Instrument :
 BNA_E
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 PST-001-B189-042419

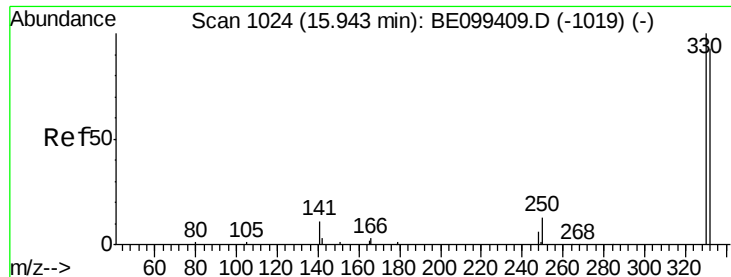
Tot Ion:152 Resp: 3139
 Ion Ratio Lower Upper
 152 100
 151 19.1 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

Tgt Ion:164 Resp: 5983
 Ion Ratio Lower Upper
 164 100
 162 98.2 79.0 118.4
 160 46.2 37.0 55.4

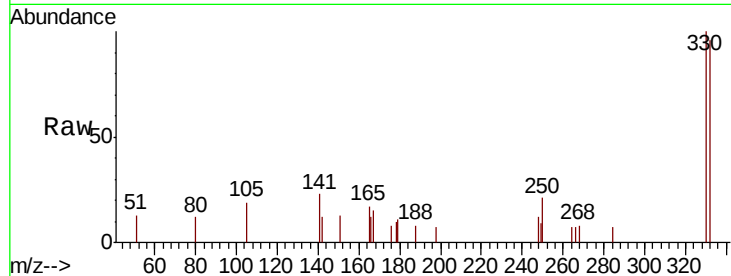




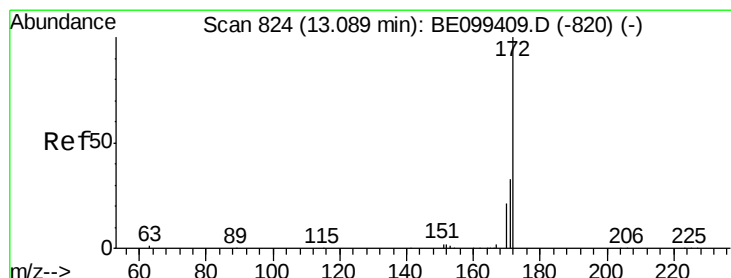
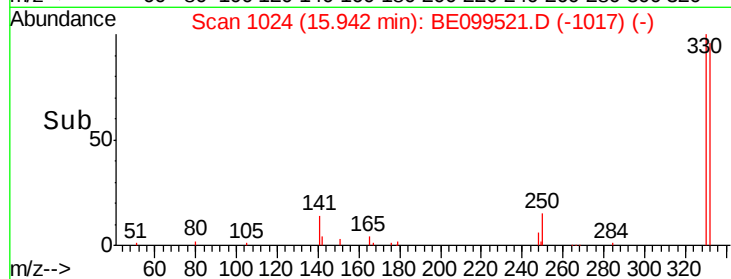
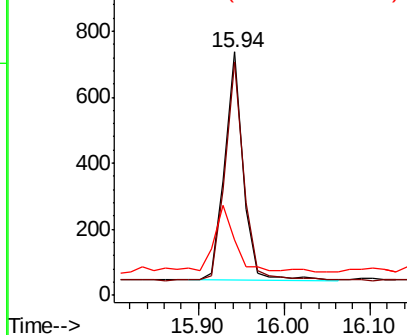
#14
 2,4,6-Tribromophenol
 Concen: 0.277 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B189-042419

Tot Ion:330 Resp: 1044
 Ion Ratio Lower Upper
 330 100
 332 99.6 71.5 107.3
 141 29.5 24.0 36.0

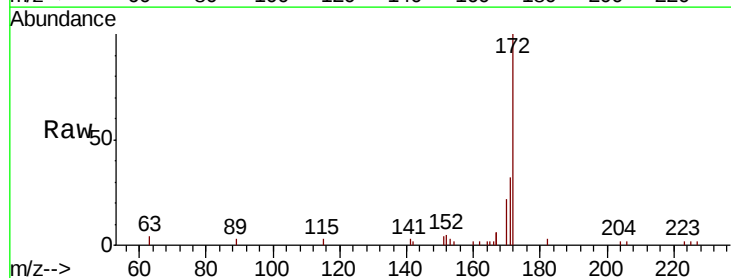


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

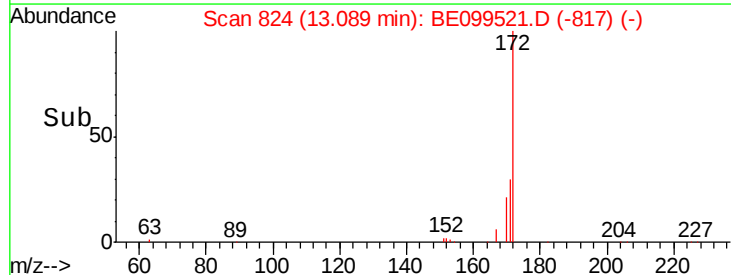
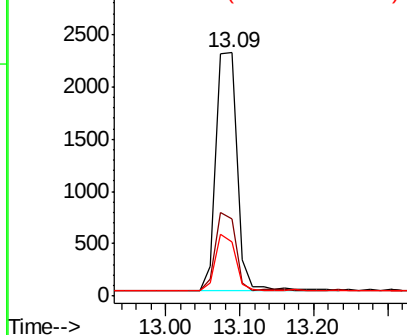


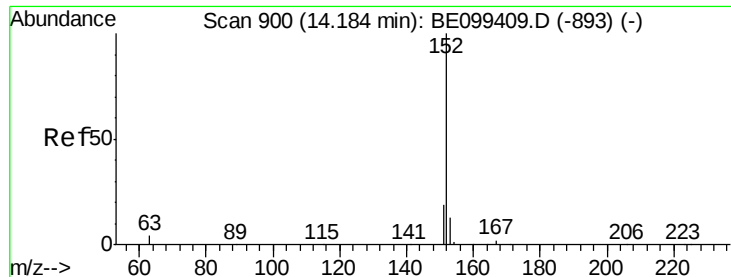
#15
 2-Fluorobiphenyl
 Concen: 0.201 ng
 RT: 13.09 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

Tgt Ion:172 Resp: 4583
 Ion Ratio Lower Upper
 172 100
 171 32.0 26.6 39.8
 170 22.5 17.0 25.6



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





#16

Acenaphthylene

Concen: 0.042 ng

RT: 14.18 min Scan# 900

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

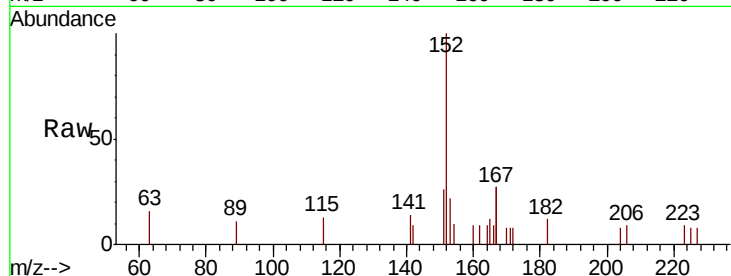
Tot Ion:152 Resp: 1221

Ion Ratio Lower Upper

152 100

151 19.2 15.4 23.2

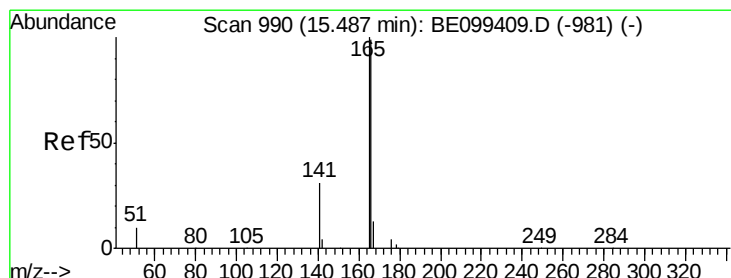
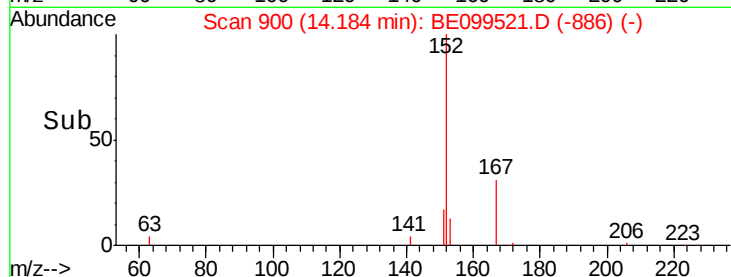
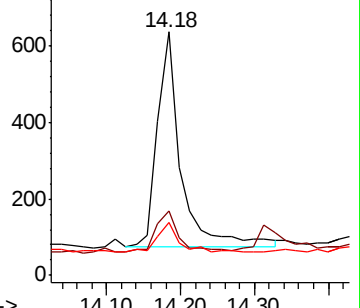
153 12.9 9.8 14.6



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: BE099521.D

Acq: 3 May 2019 8:31

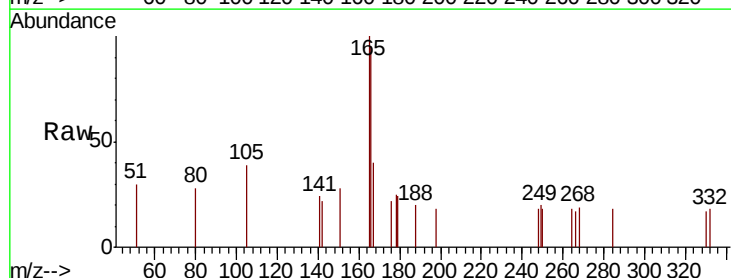
Tgt Ion:166 Resp: 505

Ion Ratio Lower Upper

166 100

165 89.3 80.3 120.5

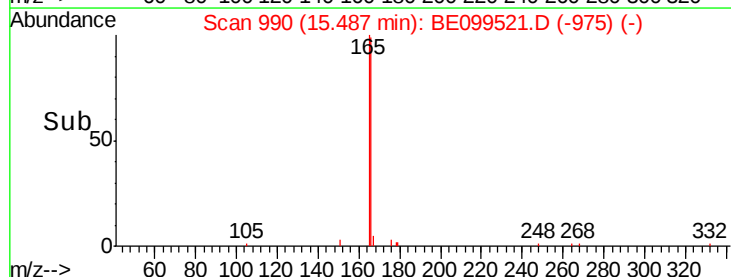
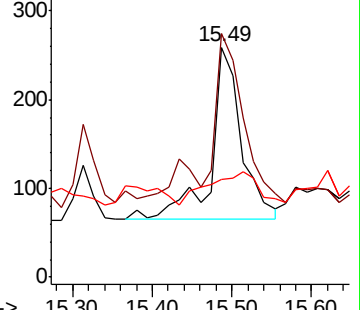
167 0.0 10.7 16.1#

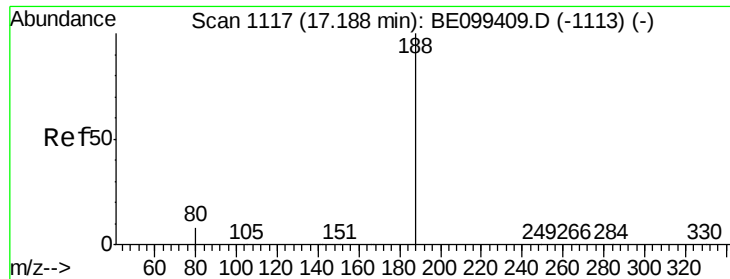


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

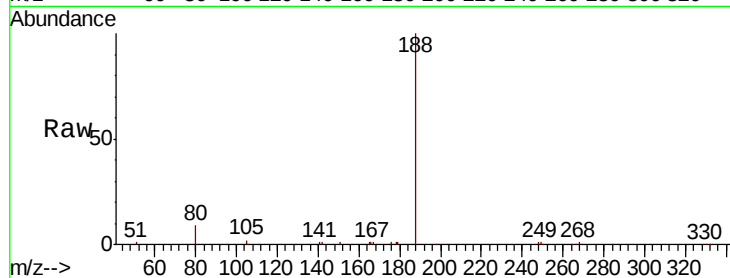
Tot Ion:188 Resp: 19196

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 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

15000

10000

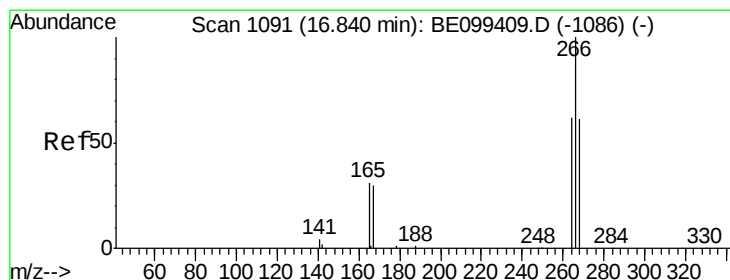
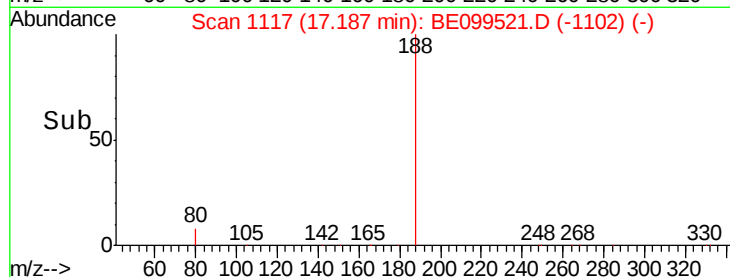
5000

0

17.19

17.10 17.20 17.30

Time-->



#22

Pentachlorophenol

Concen: 0.229 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

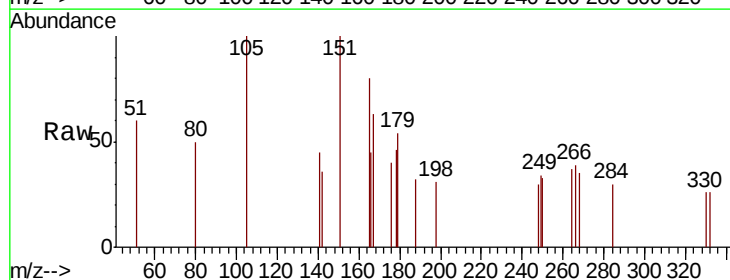
Tgt Ion:266 Resp: 81

Ion Ratio Lower Upper

266 100

264 95.9 50.8 76.2#

268 90.4 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

100

80

60

40

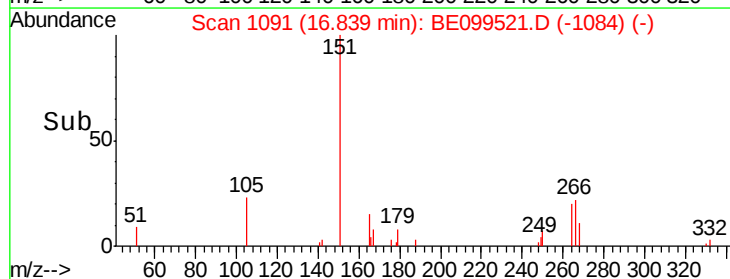
20

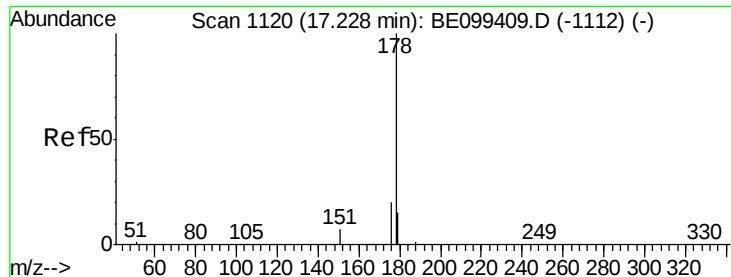
0

16.84

16.70 16.80 16.90

Time-->

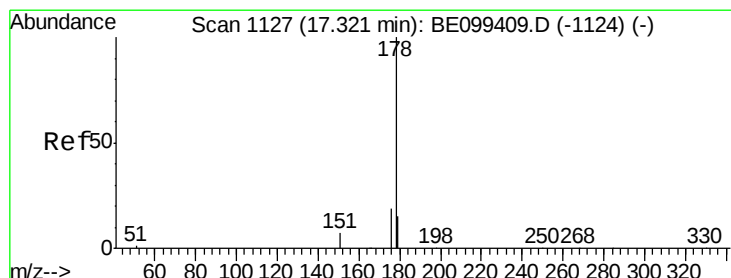
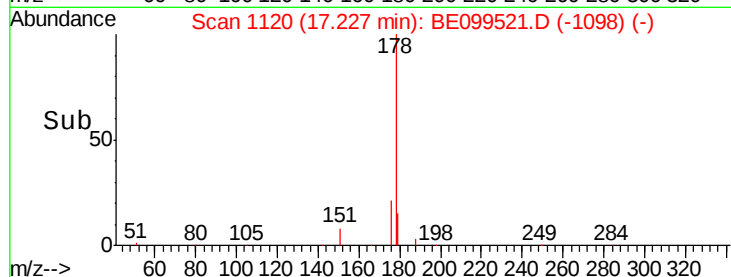
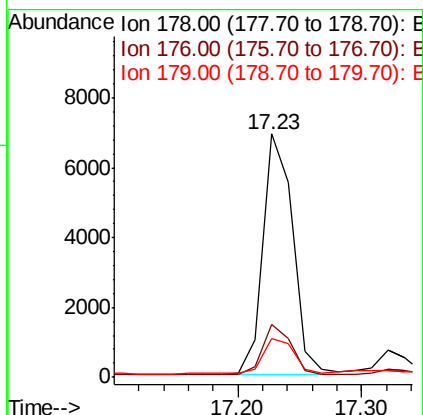
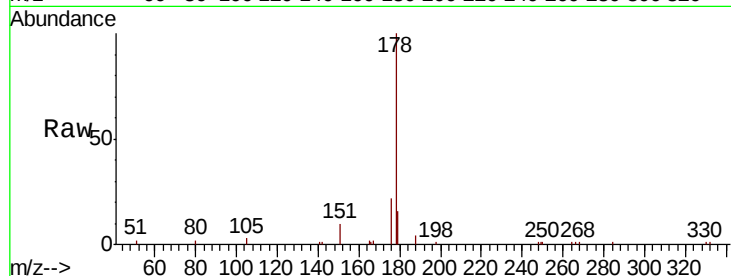




#23
Phenanthrene
Concen: 0.230 ng
RT: 17.23 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BE099521.D
Acq: 3 May 2019 8:31

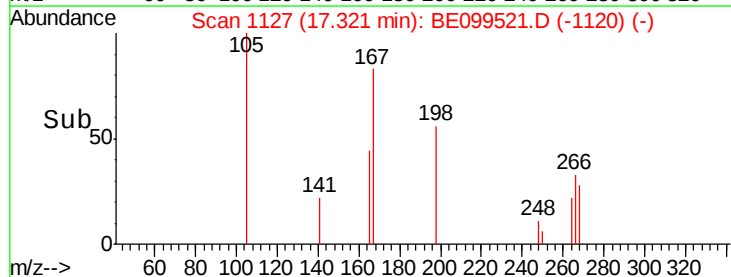
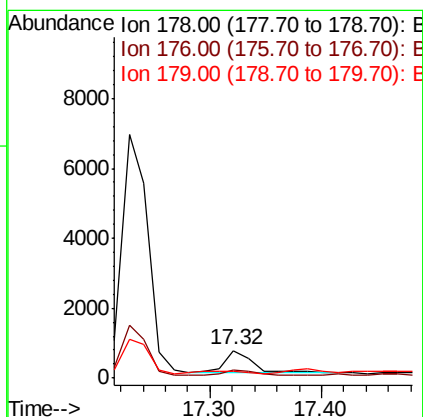
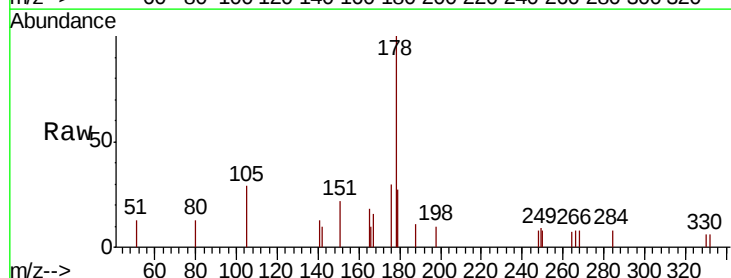
Instrument :
BNA_E
ClientSampleId :
PST-001-B189-042419

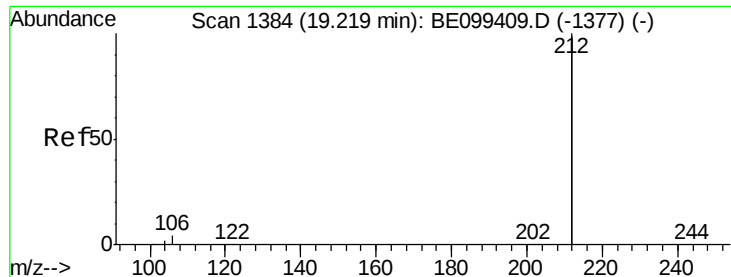
Tot Ion:178 Resp: 11403
Ion Ratio Lower Upper
178 100
176 20.2 15.6 23.4
179 16.1 12.0 18.0



#24
Anthracene
Concen: 0.023 ng
RT: 17.32 min Scan# 1127
Delta R.T. -0.00 min
Lab File: BE099521.D
Acq: 3 May 2019 8:31

Tgt Ion:178 Resp: 1092
Ion Ratio Lower Upper
178 100
176 22.5 14.9 22.3#
179 15.2 11.9 17.9





#25

Fluoranthene-d10

Concen: 0.190 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

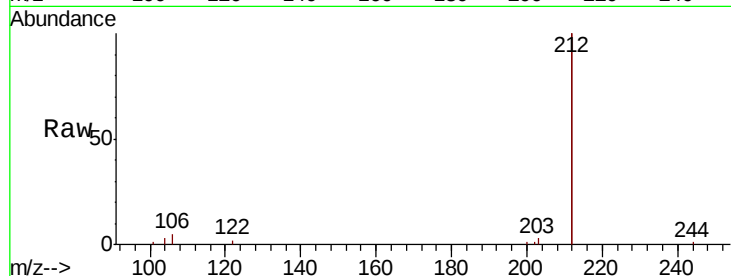
Tot Ion:212 Resp: 49078

Ion Ratio Lower Upper

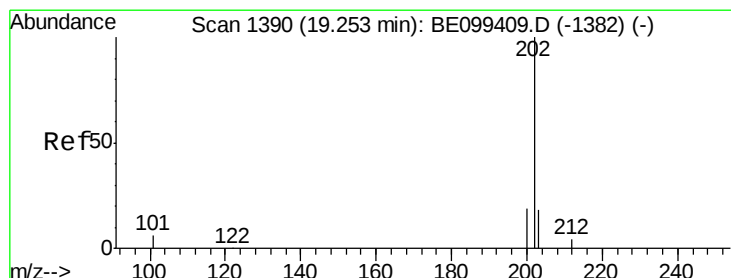
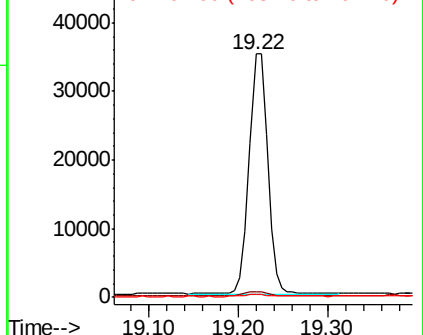
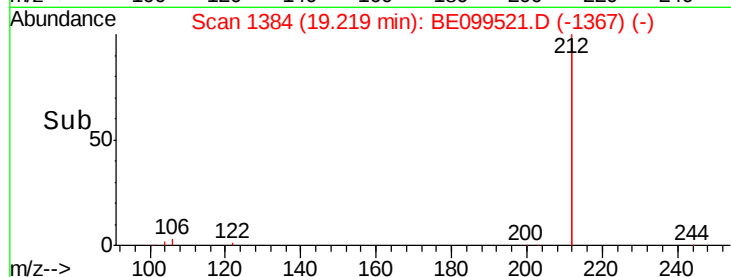
212 100

106 2.1 1.5 2.3

104 1.2 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: 0.359 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

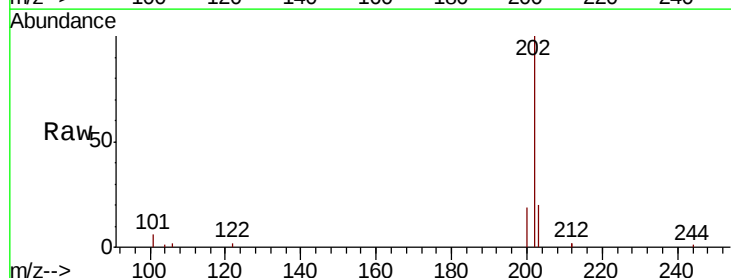
Tgt Ion:202 Resp: 26664

Ion Ratio Lower Upper

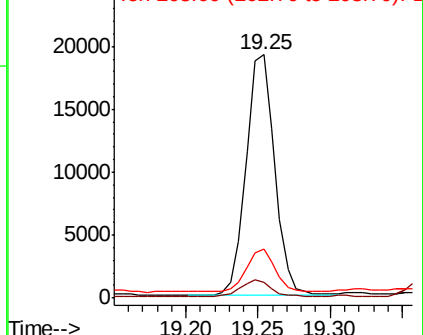
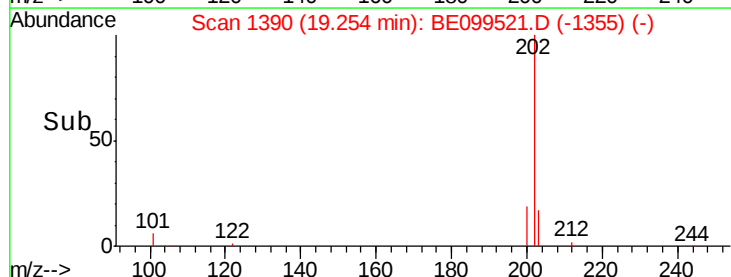
202 100

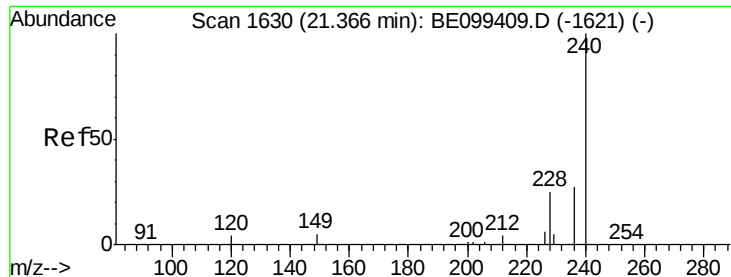
101 7.2 5.4 8.0

203 18.5 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

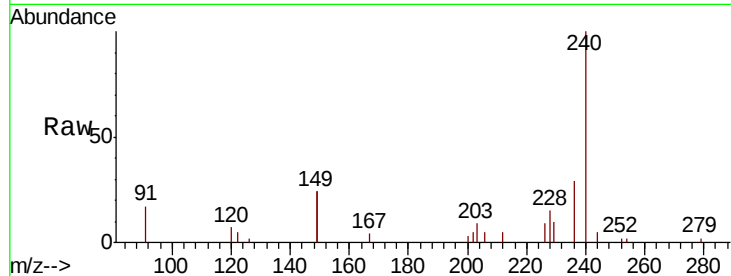




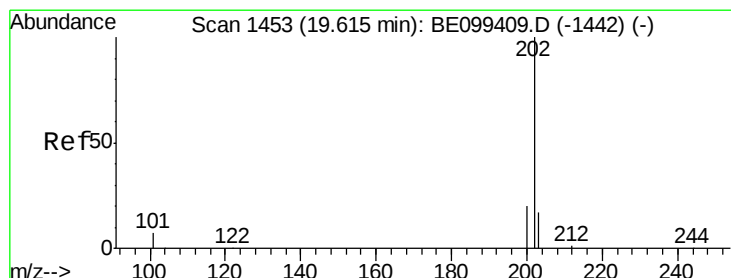
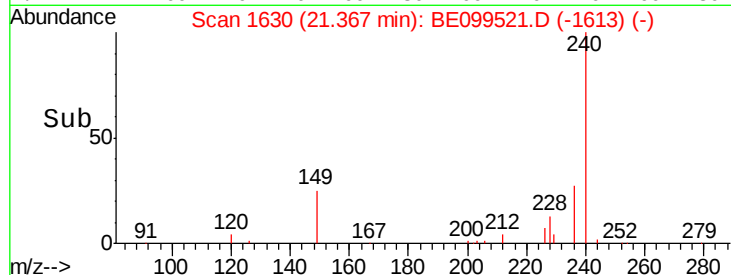
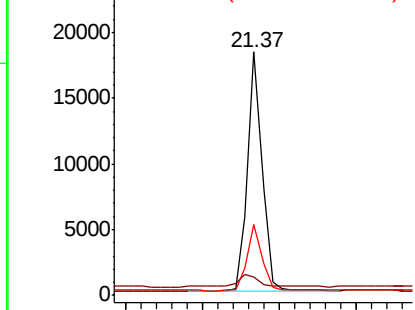
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE099521.D
Acq: 3 May 2019 8:31

Instrument :
BNA_E
ClientSampleId :
PST-001-B189-042419

Tot Ion:240 Resp: 24286
Ion Ratio Lower Upper
240 100
120 7.3 4.0 6.0#
236 29.0 22.0 33.0

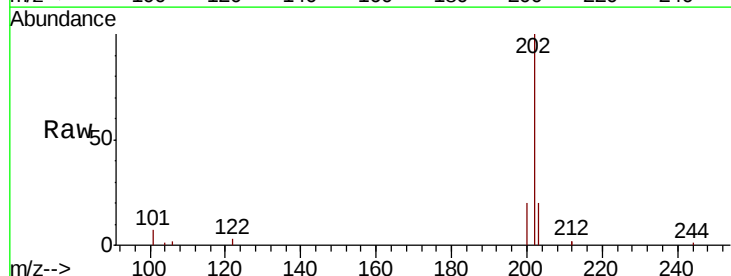


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

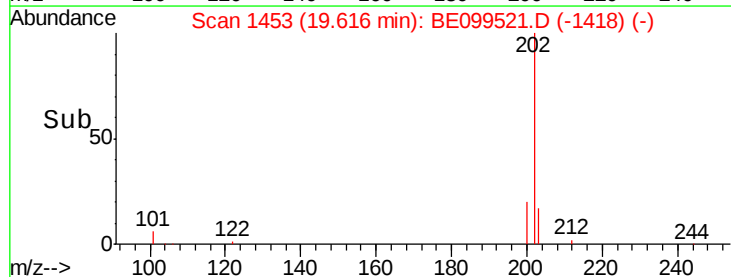
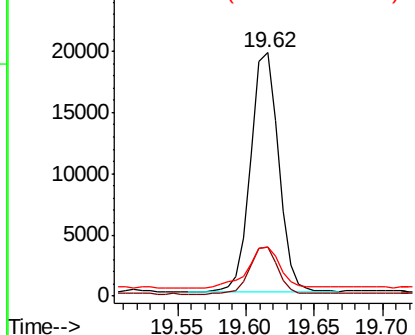


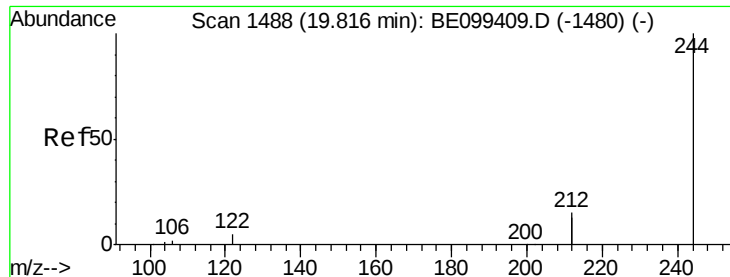
#28
Pyrene
Concen: 0.438 ng
RT: 19.62 min Scan# 1453
Delta R.T. 0.00 min
Lab File: BE099521.D
Acq: 3 May 2019 8:31

Tgt Ion:202 Resp: 27738
Ion Ratio Lower Upper
202 100
200 19.9 15.7 23.5
203 20.7 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: 0.221 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

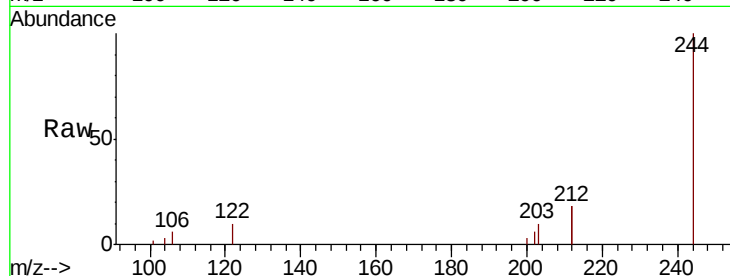
Tot Ion:244 Resp: 9841

Ion Ratio Lower Upper

244 100

212 35.3 23.2 34.8#

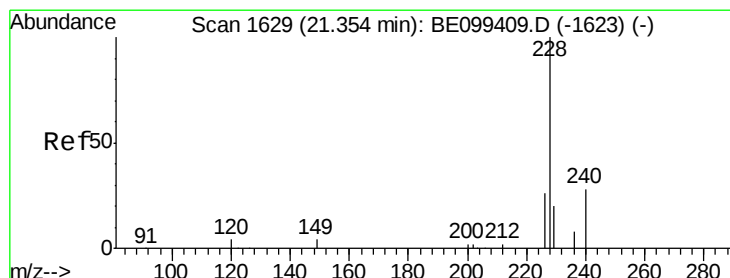
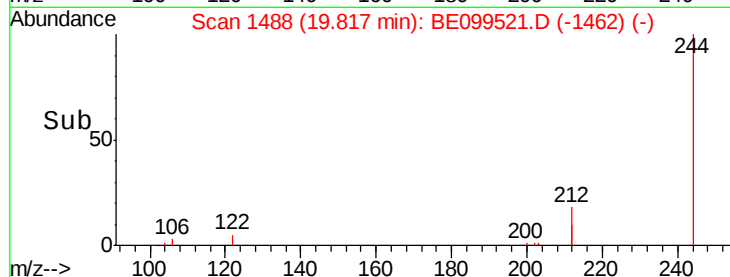
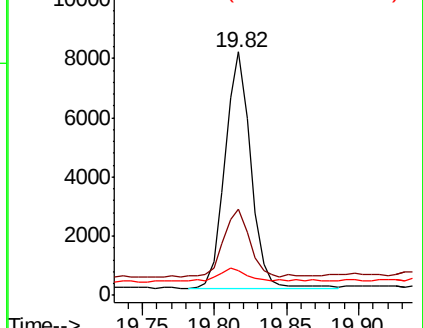
122 10.2 4.2 6.4#



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: 0.180 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

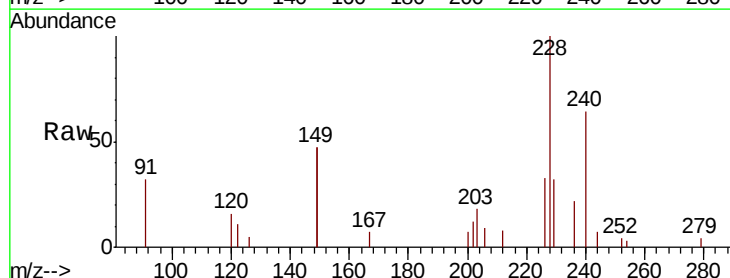
Tgt Ion:228 Resp: 13914

Ion Ratio Lower Upper

228 100

226 33.3 21.0 31.6#

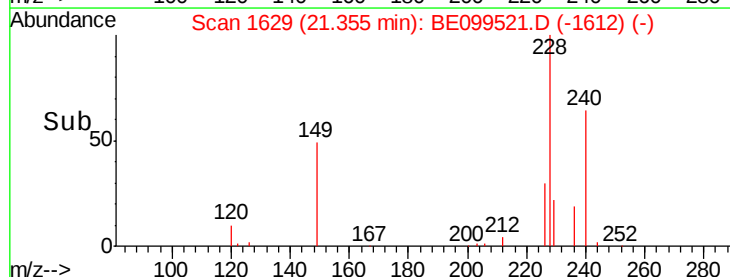
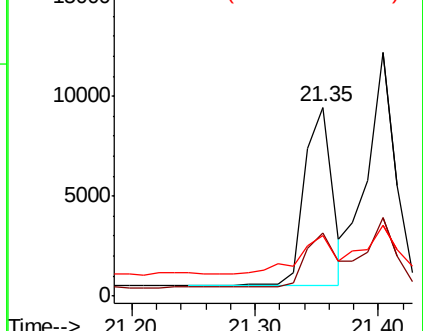
229 32.3 16.6 25.0#

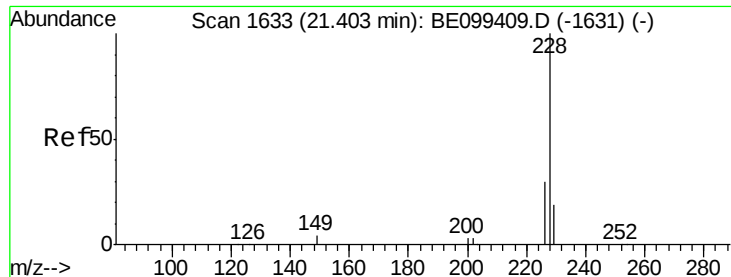


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.248 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

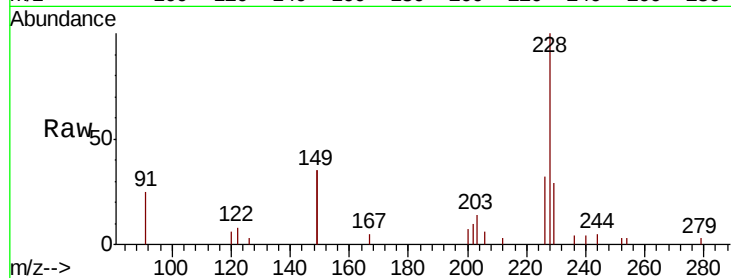
Tot Ion:228 Resp: 18779

Ion Ratio Lower Upper

228 100

226 32.2 24.0 36.0

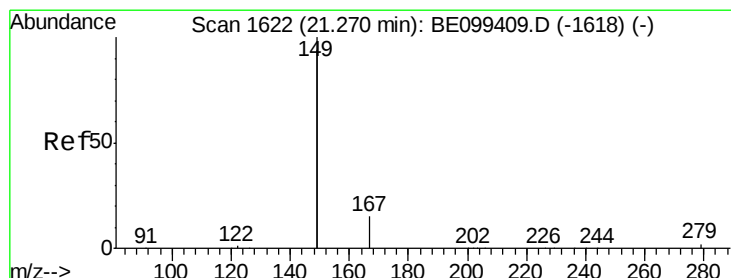
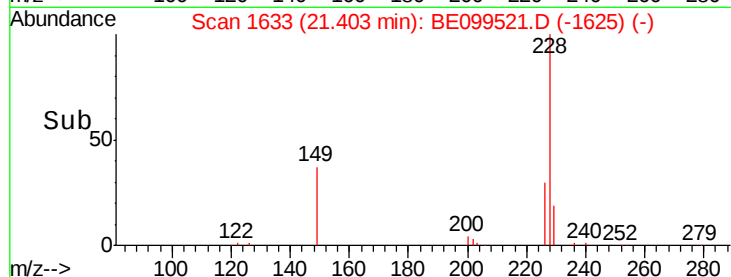
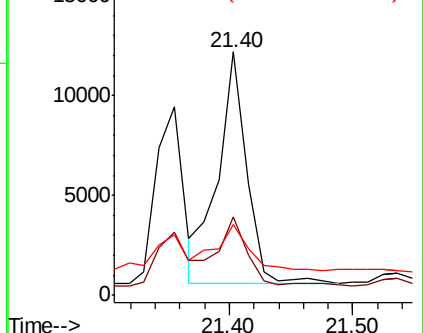
229 29.1 15.8 23.8#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.032 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

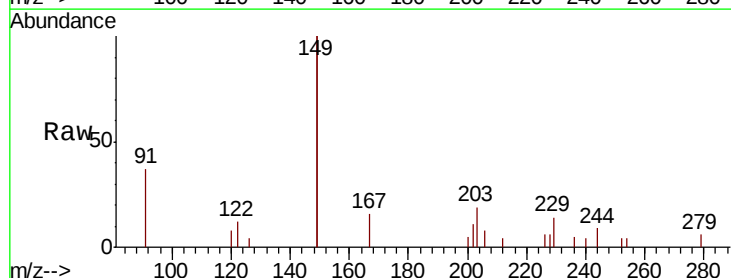
Tgt Ion:149 Resp: 11283

Ion Ratio Lower Upper

149 100

167 6.9 5.8 8.6

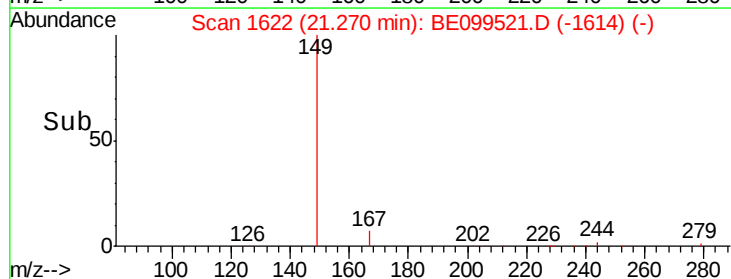
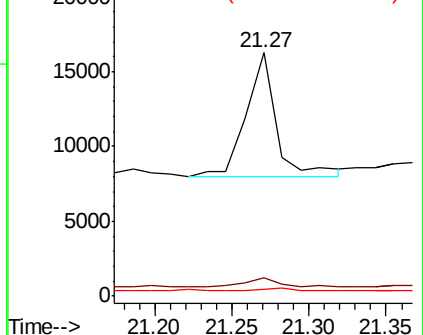
279 2.0 1.0 1.6#

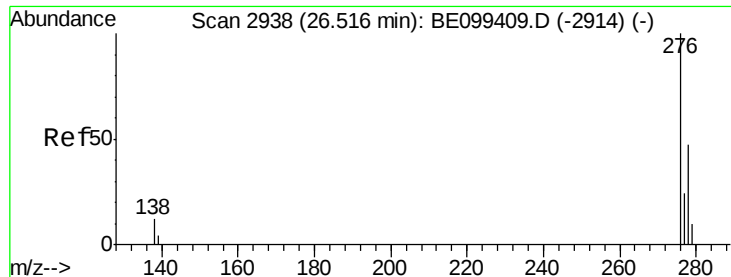


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

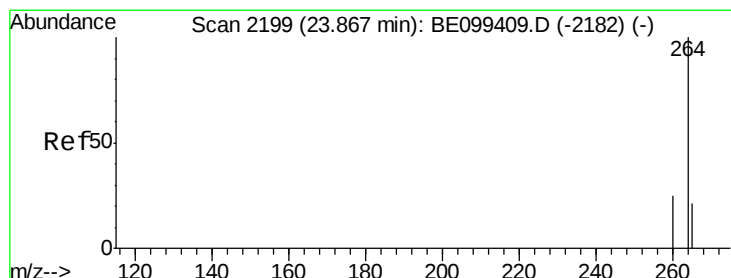
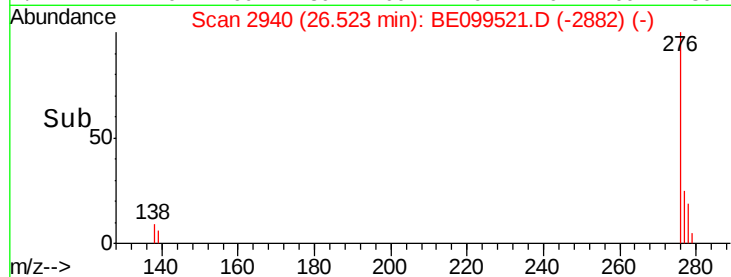
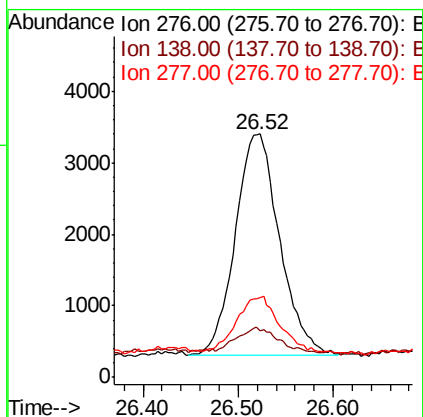
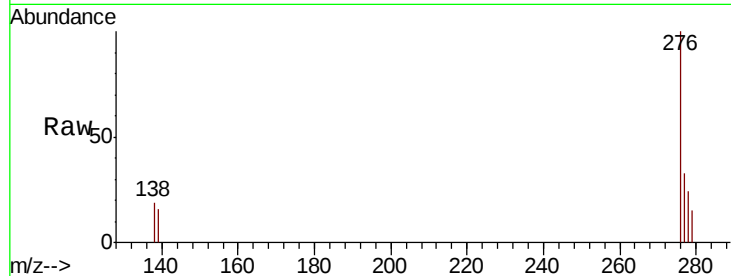




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.111 ng
 RT: 26.52 min Scan# 2940
 Delta R.T. 0.01 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

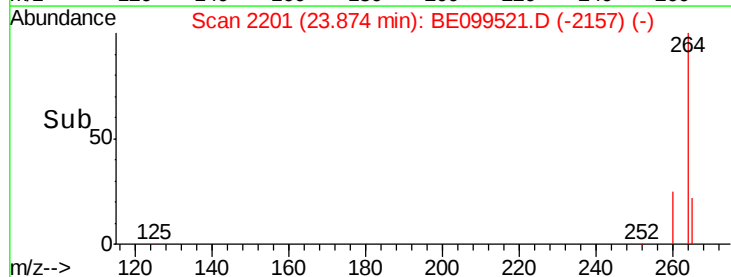
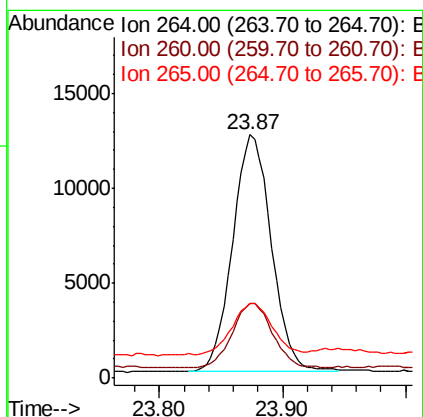
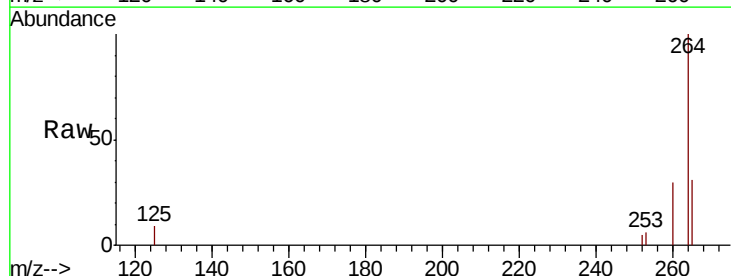
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B189-042419

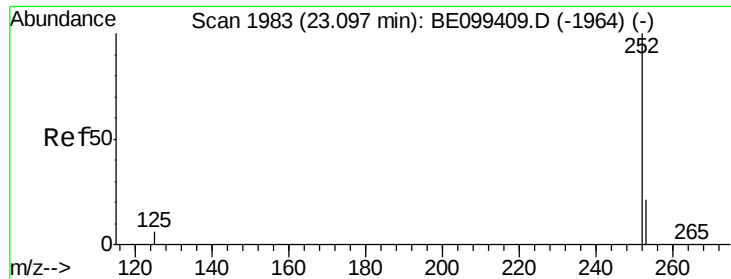
Tot Ion:276 Resp: 9908
 Ion Ratio Lower Upper
 276 100
 138 10.4 10.2 15.2
 277 24.0 19.2 28.8



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.87 min Scan# 2201
 Delta R.T. 0.01 min
 Lab File: BE099521.D
 Acq: 3 May 2019 8:31

Tgt Ion:264 Resp: 27398
 Ion Ratio Lower Upper
 264 100
 260 30.4 20.2 30.2#
 265 30.6 21.3 31.9





#35

Benzo(b)fluoranthene

Concen: 0.261 ng

RT: 23.10 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

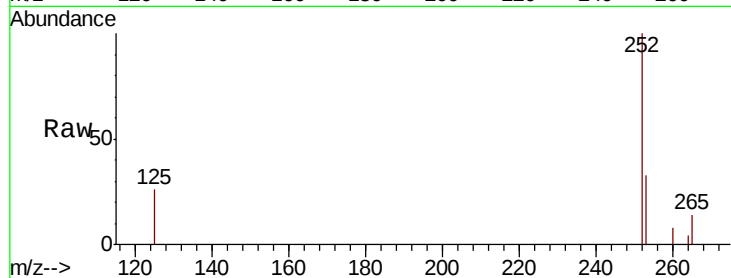
Tot Ion:252 Resp: 20591

Ion Ratio Lower Upper

252 100

253 33.3 18.1 27.1#

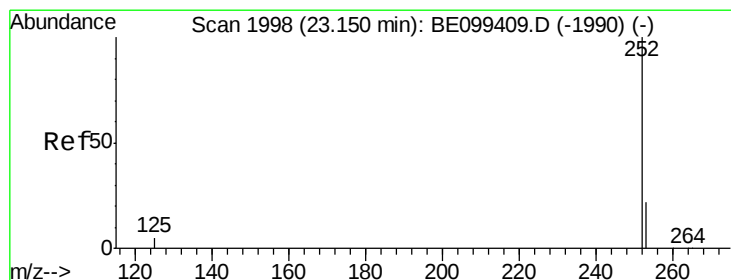
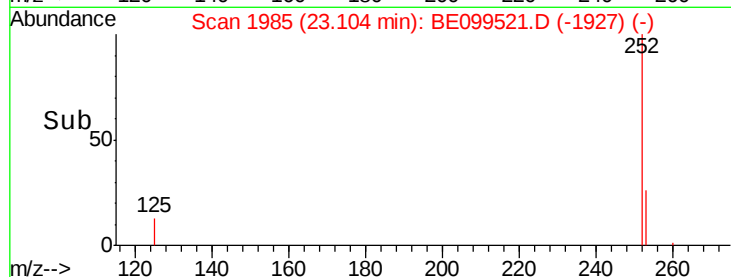
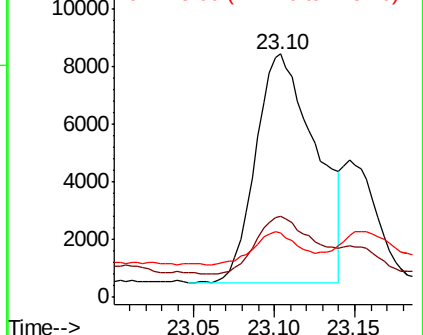
125 26.5 5.6 8.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.270 ng

RT: 23.10 min Scan# 1985

Delta R.T. -0.05 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

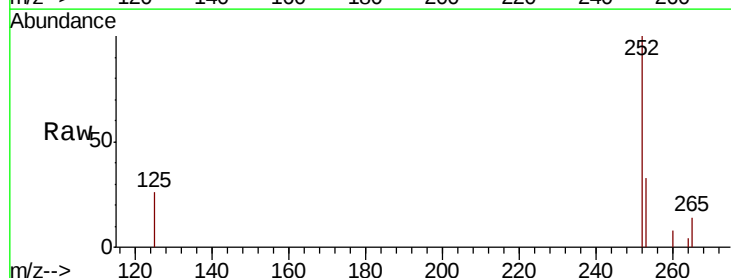
Tgt Ion:252 Resp: 20591

Ion Ratio Lower Upper

252 100

253 33.3 18.4 27.6#

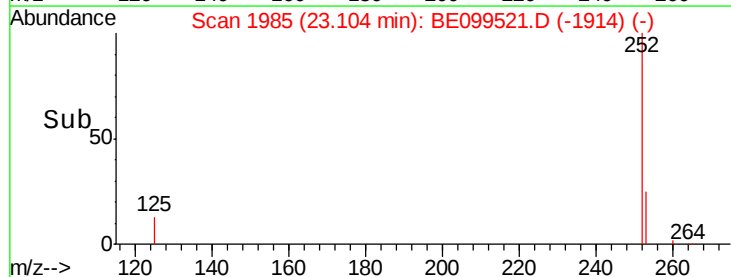
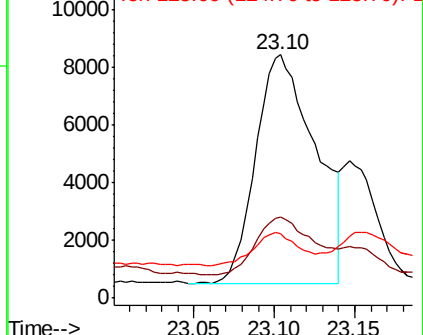
125 26.5 5.0 7.4#

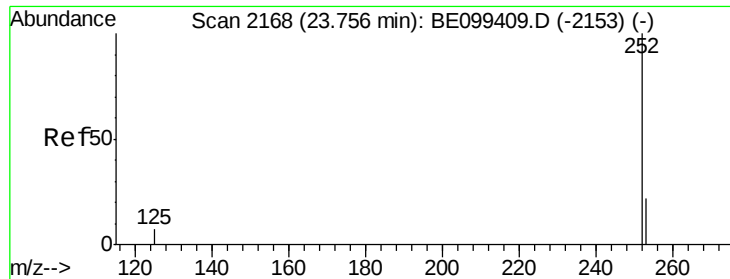


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.181 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

Instrument :

BNA_E

ClientSampleId :

PST-001-B189-042419

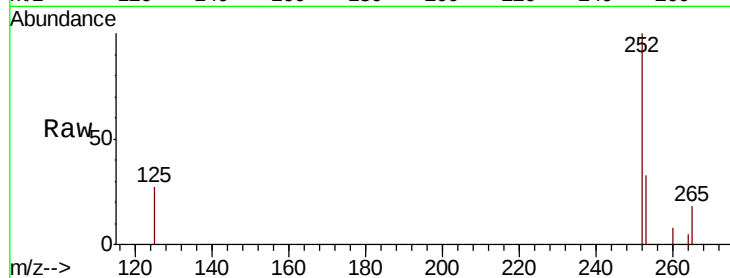
Tot Ion:252 Resp: 13533

Ion Ratio Lower Upper

252 100

253 33.1 18.9 28.3#

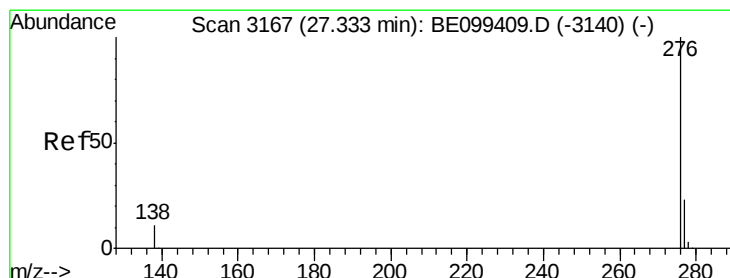
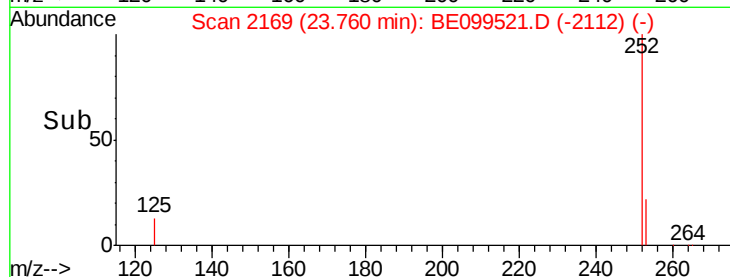
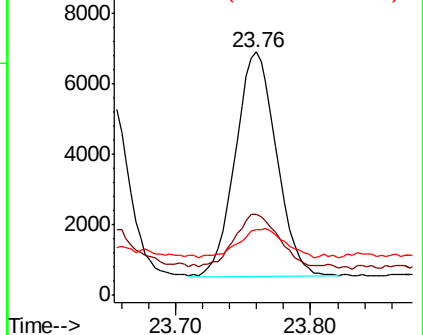
125 27.2 6.7 10.1#



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



#39

Benzo(g,h,i)perylene

Concen: 0.132 ng

RT: 27.35 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BE099521.D

Acq: 3 May 2019 8:31

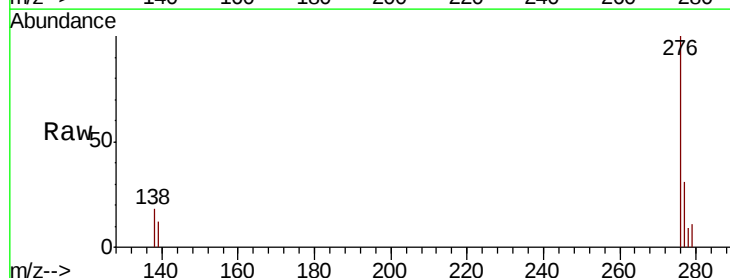
Tgt Ion:276 Resp: 10114

Ion Ratio Lower Upper

276 100

277 31.3 19.5 29.3#

138 17.7 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

