

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099520.D
 Acq On : 3 May 2019 7:55
 Operator : JU/SJ
 Sample : K2589-06
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-SW017-042419

Quant Time: May 03 08:47:44 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	7427	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5735	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19348	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24215	0.40	ng	0.00
34) Perylene-d12	23.87	264	27929	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	3014	0.54	ng	0.00
5) Phenol-d6	6.97	99	4348	0.58	ng	0.00
8) Nitrobenzene-d5	8.96	82	3579	0.51	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	6619	0.49	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2869	0.79	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	10444	0.48	ng	-0.01
25) Fluoranthene-d10	19.22	212	141682	0.54	ng	0.00
29) Terphenyl-d14	19.82	244	29193	0.66	ng	0.00

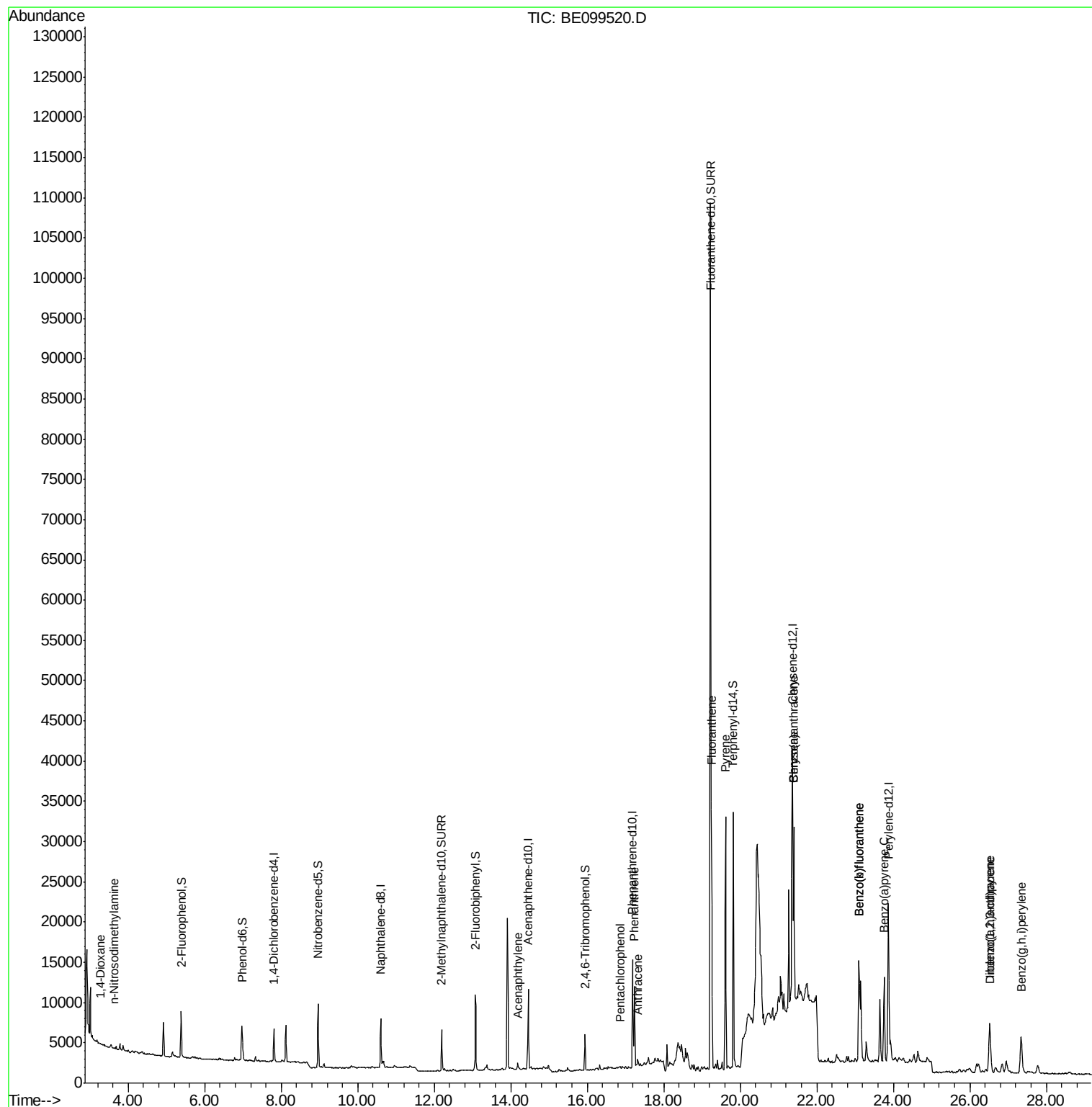
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.27	88	129	0.046	ng	# 27
3) n-Nitrosodimethylamine	3.62	42	41	0.024	ng	# 3
16) Acenaphthylene	14.18	152	1083	0.039	ng	# 96
22) Pentachlorophenol	16.85	266	65	0.226	ng	# 67
23) Phenanthrene	17.23	178	11372	0.228	ng	# 99
24) Anthracene	17.32	178	978	0.021	ng	# 88
26) Fluoranthene	19.25	202	29022	0.388	ng	# 99
28) Pyrene	19.62	202	30631	0.485	ng	# 96
30) Benzo(a)anthracene	21.40	228	20991	0.272	ng	# 91
31) Chrysene	21.40	228	20875	0.276	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.35	149	3707	Below Cal		97
33) Indeno(1,2,3-cd)pyrene	26.52	276	11804	0.132	ng	# 97
35) Benzo(b)fluoranthene	23.10	252	23688	0.294	ng	# 86
36) Benzo(k)fluoranthene	23.10	252	23651	0.305	ng	# 86
37) Benzo(a)pyrene	23.76	252	15957	0.210	ng	# 88
38) Dibenzo(a,h)anthracene	26.53	278	3323	0.043	ng	# 45
39) Benzo(a,h,i)perylene	27.34	276	12114	0.155	ng	# 93

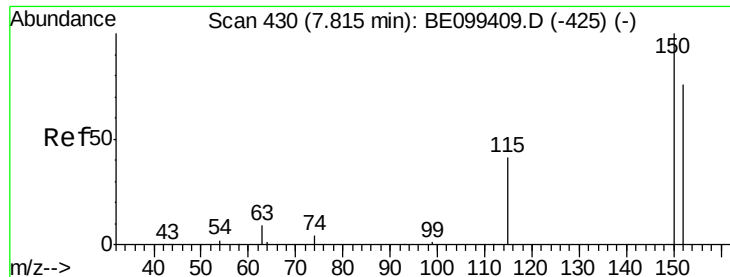
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

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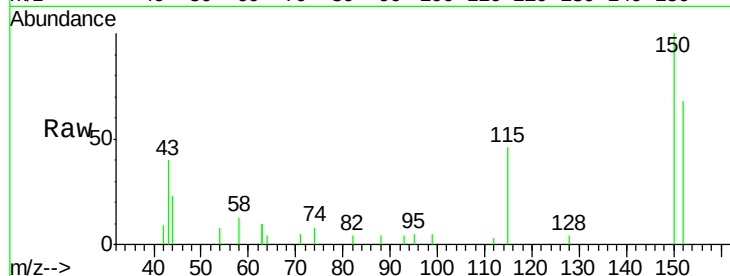
Tot Ion:152 Resp: 2033

Ion Ratio Lower Upper

152 100

150 146.9 104.8 157.2

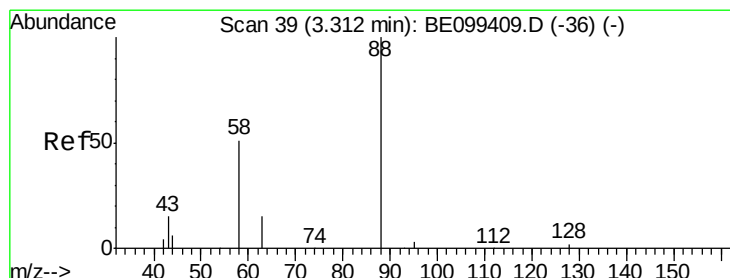
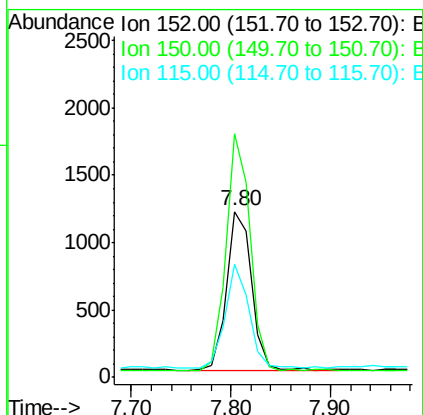
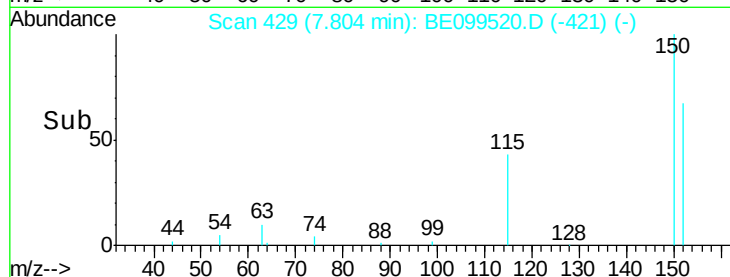
115 68.0 46.6 69.8



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



#2

1,4-Dioxane

Concen: 0.046 ng

RT: 3.27 min Scan# 35

Delta R.T. -0.05 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

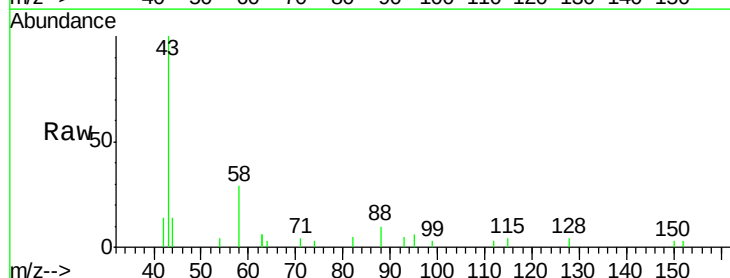
Tgt Ion: 88 Resp: 129

Ion Ratio Lower Upper

88 100

58 0.0 51.0 76.6#

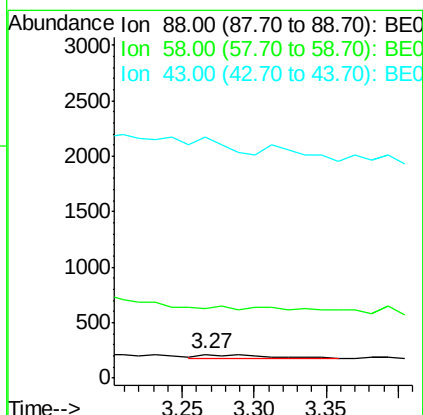
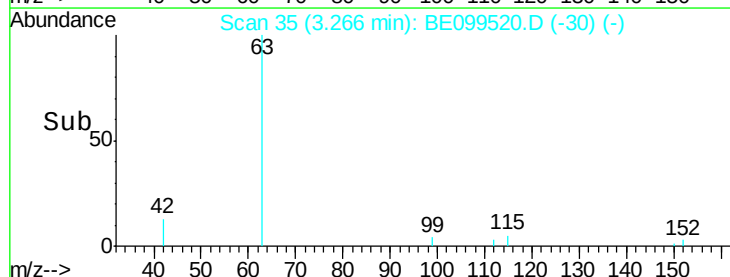
43 0.0 20.6 30.8#

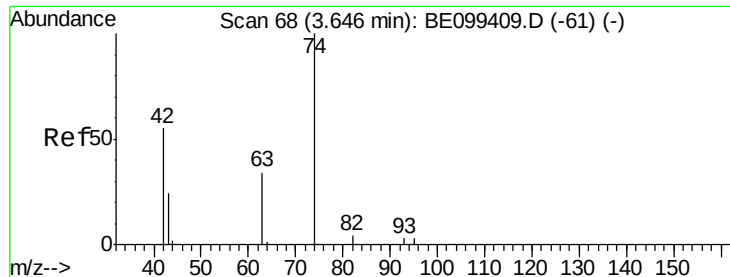


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.024 ng

RT: 3.62 min Scan# 66

Delta R.T. -0.02 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

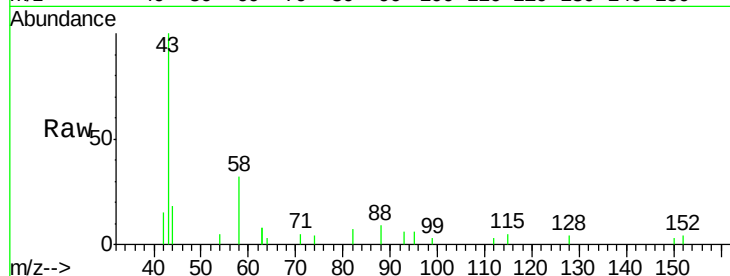
Tot Ion: 42 Resp: 41

Ion Ratio Lower Upper

42 100

74 41.5 141.6 212.4#

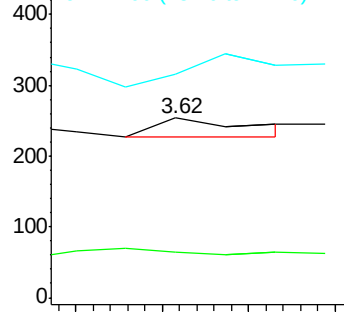
44 0.0 0.0 0.0



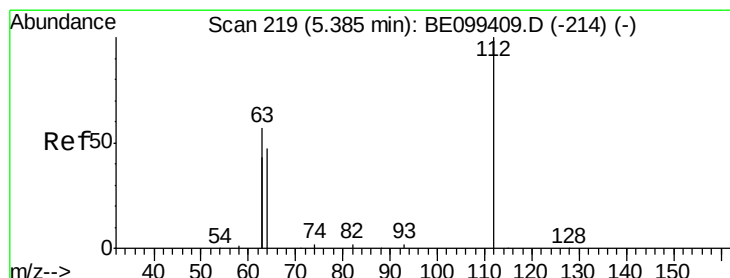
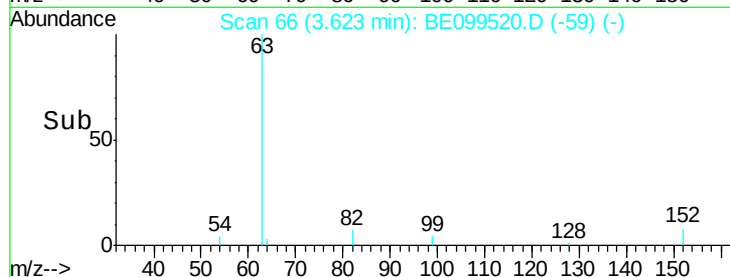
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 0.536 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

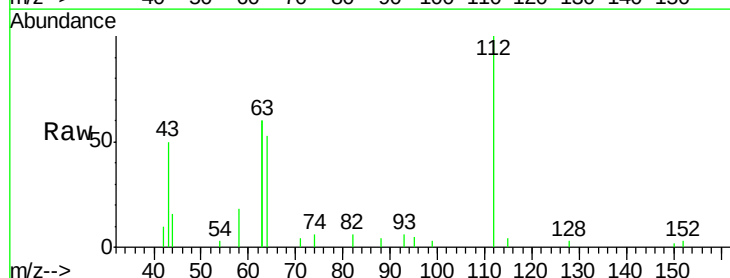
Tgt Ion: 112 Resp: 3014

Ion Ratio Lower Upper

112 100

64 58.7 47.4 71.0

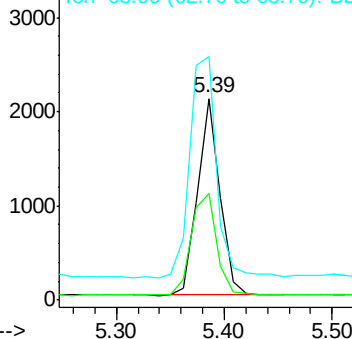
63 133.8 104.3 156.5



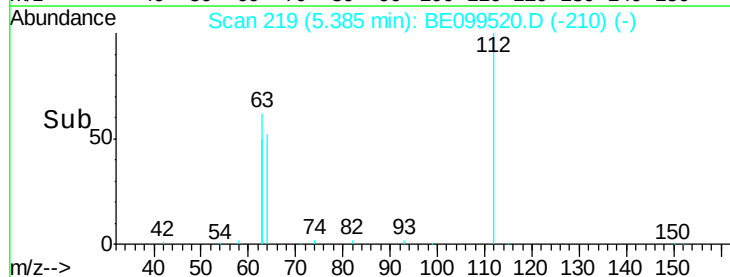
Abundance Ion 112.00 (111.70 to 112.70): E

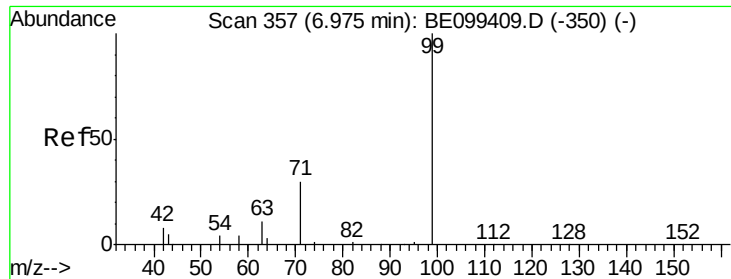
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.582 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

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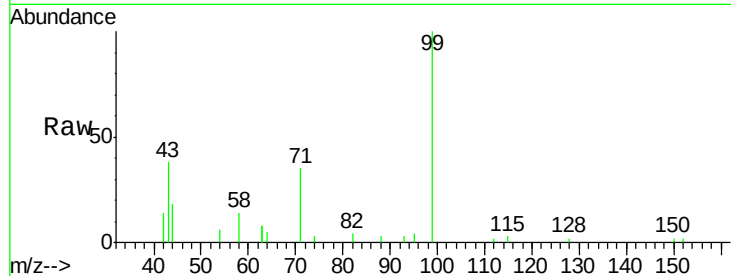
Tot Ion: 99 Resp: 4348

Ion Ratio Lower Upper

99 100

42 17.2 14.9 22.3

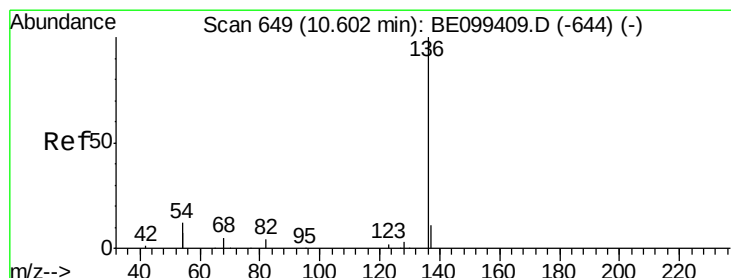
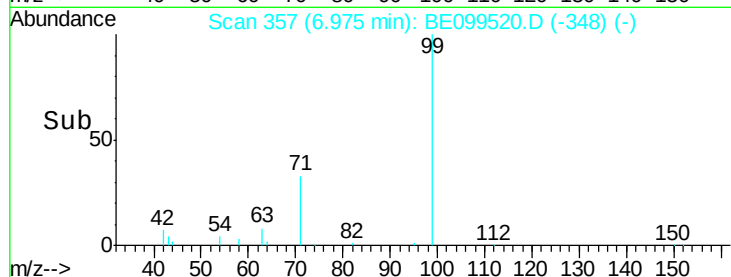
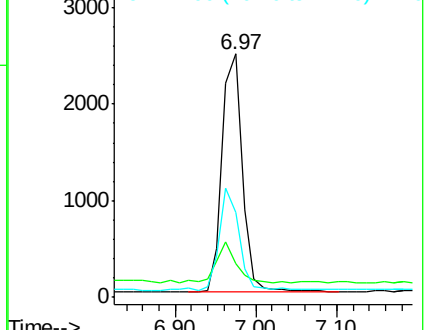
71 41.7 33.0 49.6



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: BE099520.D

Acq: 3 May 2019 7:55

Tgt Ion: 136 Resp: 7427

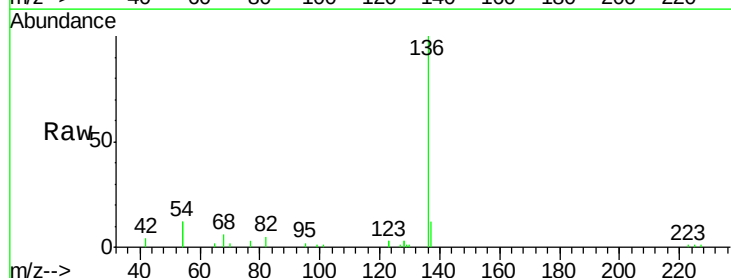
Ion Ratio Lower Upper

136 100

137 12.0 9.8 14.8

54 24.8 18.5 27.7

68 6.3 4.7 7.1

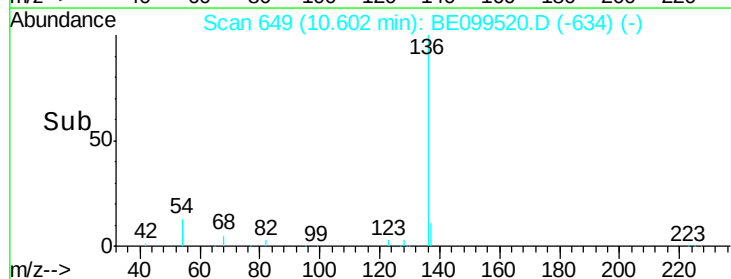
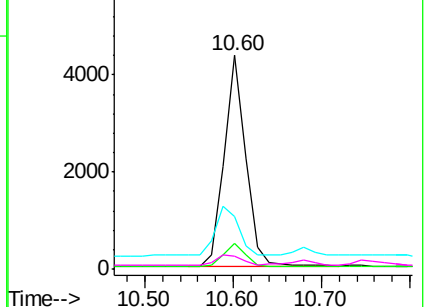


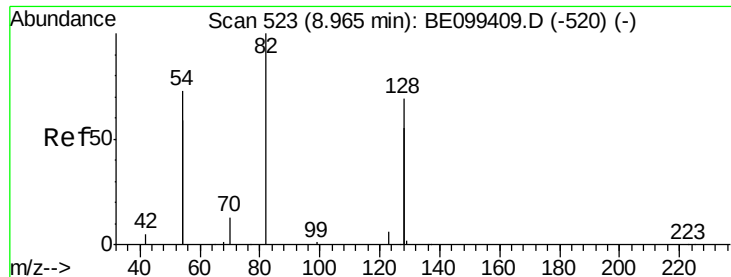
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.514 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

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ClientSampleId :

PST-001-SW017-042419

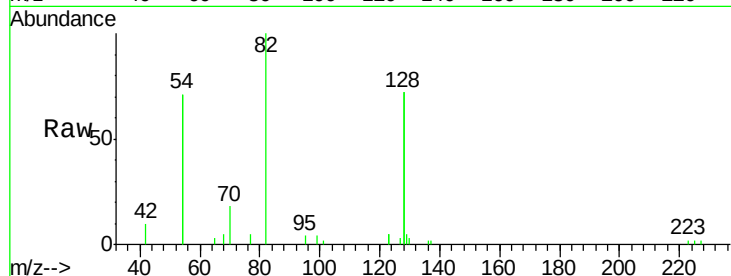
Tot Ion: 82 Resp: 3579

Ion Ratio Lower Upper

82 100

128 144.4 107.0 160.4

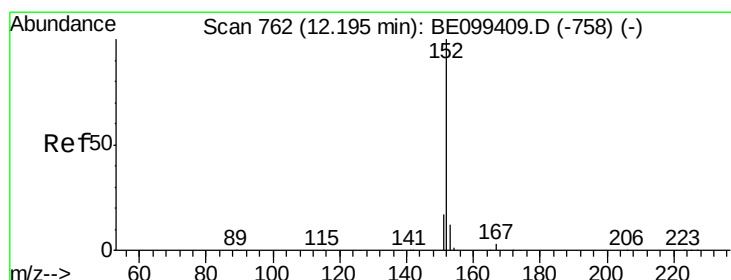
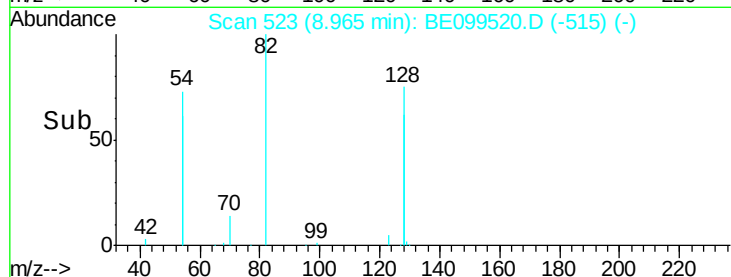
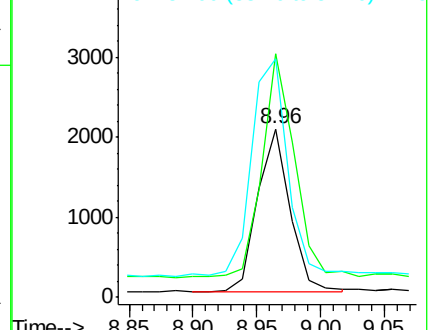
54 141.2 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE099520.D (-515) (-)

Ion 128.00 (127.70 to 128.70): BE099520.D (-515) (-)

Ion 54.00 (53.70 to 54.70): BE099520.D (-515) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.495 ng

RT: 12.20 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099520.D

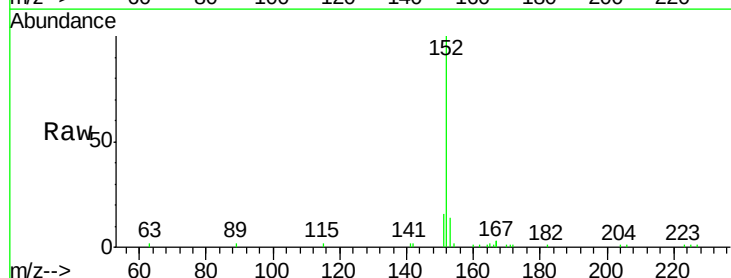
Acq: 3 May 2019 7:55

Tgt Ion: 152 Resp: 6619

Ion Ratio Lower Upper

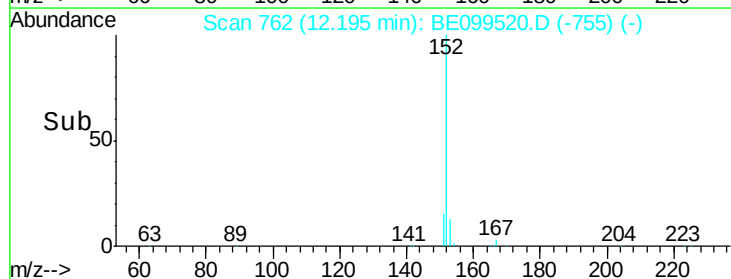
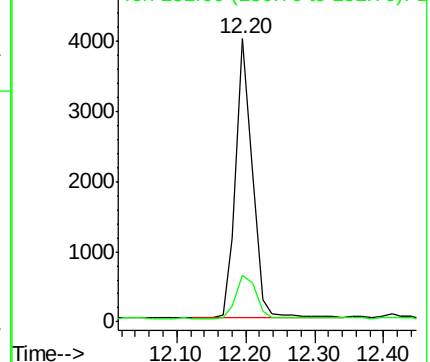
152 100

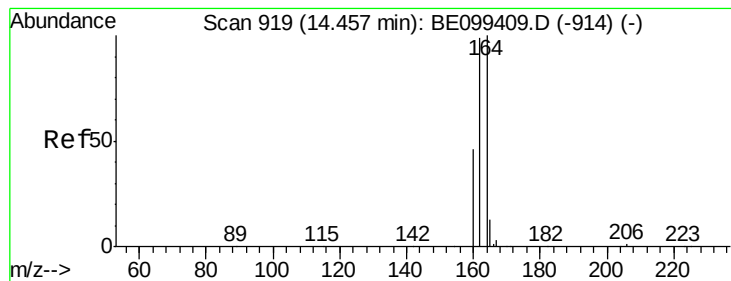
151 19.1 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE099520.D (-755) (-)

Ion 151.00 (150.70 to 151.70): BE099520.D (-755) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

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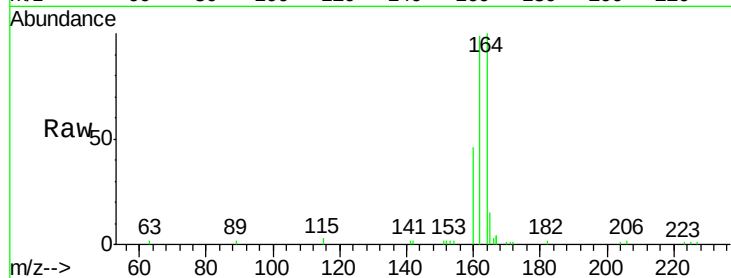
Tot Ion:164 Resp: 5735

Ion Ratio Lower Upper

164 100

162 99.1 79.0 118.4

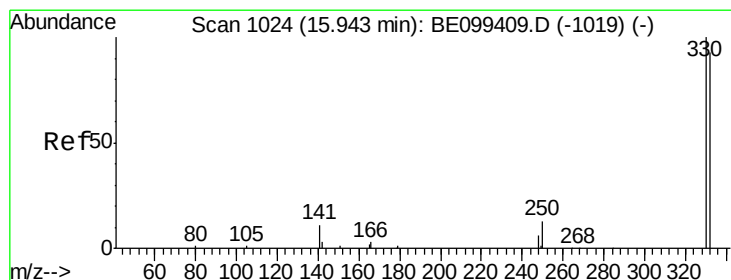
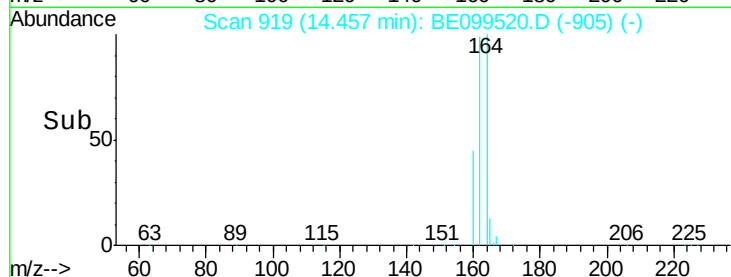
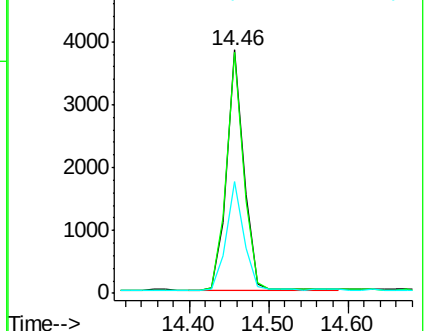
160 46.2 37.0 55.4



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: 0.794 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

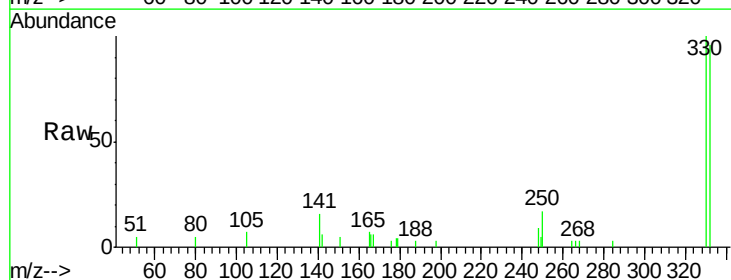
Tgt Ion:330 Resp: 2869

Ion Ratio Lower Upper

330 100

332 95.6 71.5 107.3

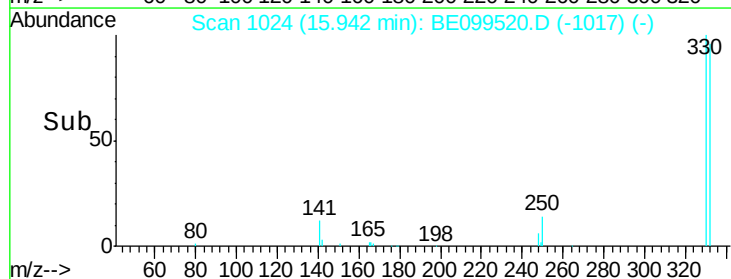
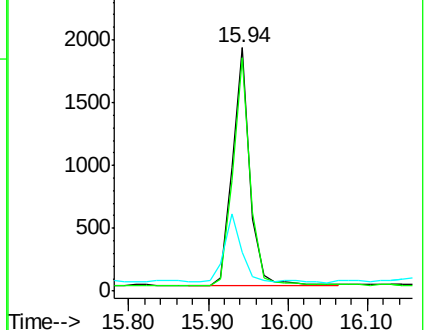
141 27.3 24.0 36.0

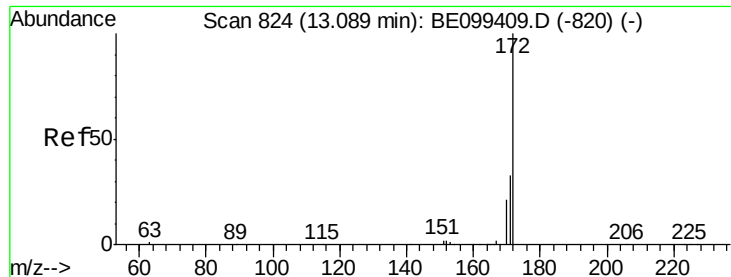


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

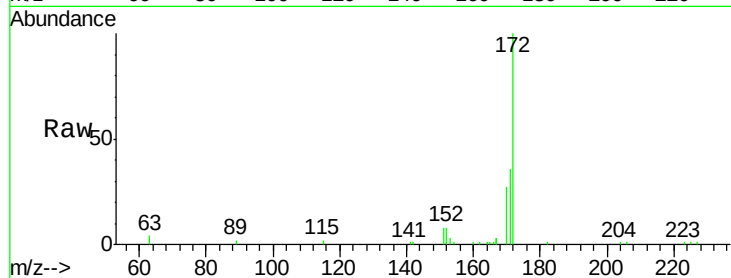




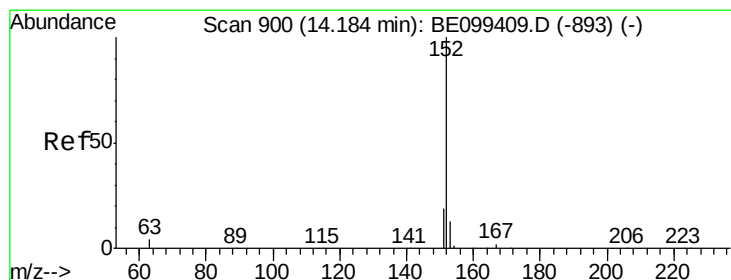
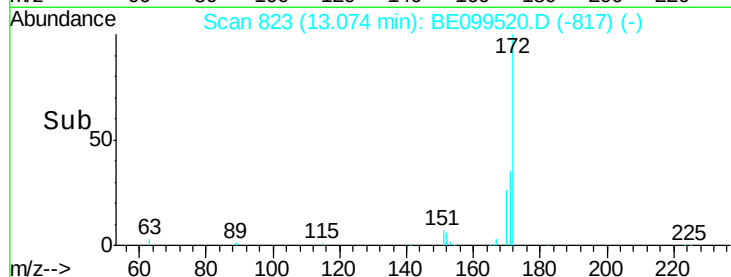
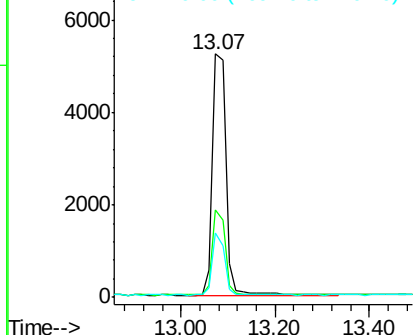
#15
2-Fluorobiphenyl
Concen: 0.477 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE099520.D
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Tot Ion:172 Resp: 10444
Ion Ratio Lower Upper
172 100
171 35.8 26.6 39.8
170 26.5 17.0 25.6#

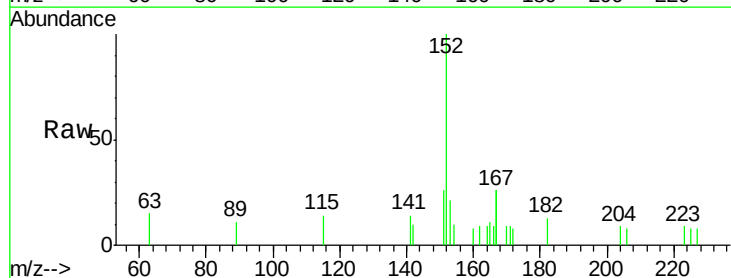


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

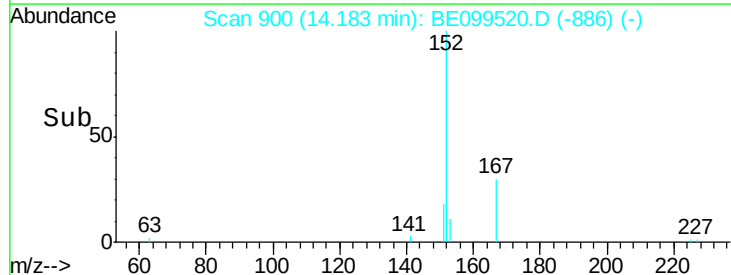
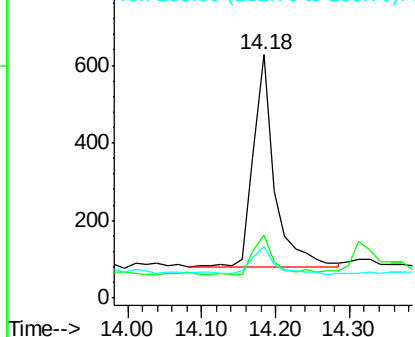


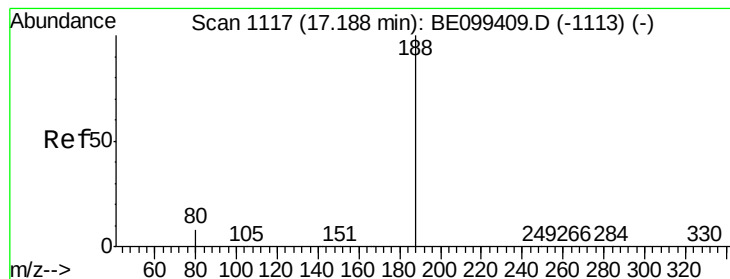
#16
Acenaphthylene
Concen: 0.039 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099520.D
Acq: 3 May 2019 7:55

Tgt Ion:152 Resp: 1083
Ion Ratio Lower Upper
152 100
151 19.2 15.4 23.2
153 15.6 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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

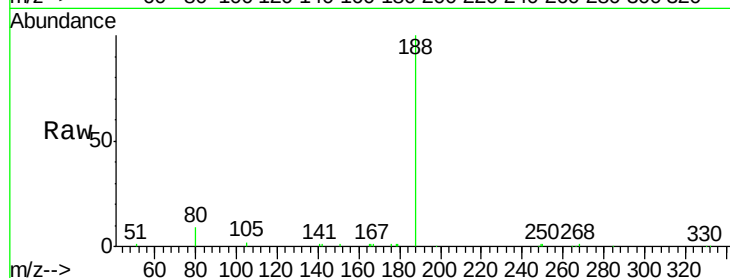
Tot Ion:188 Resp: 19348

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

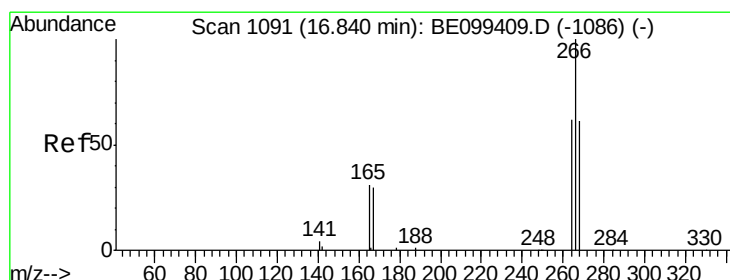
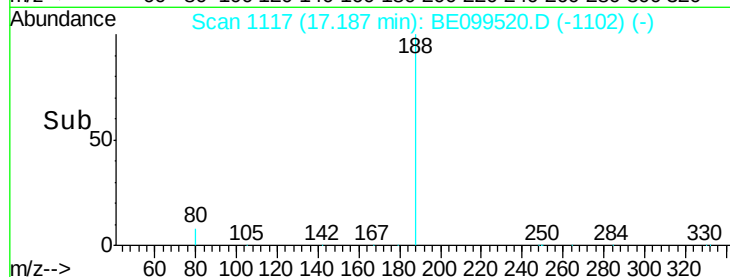
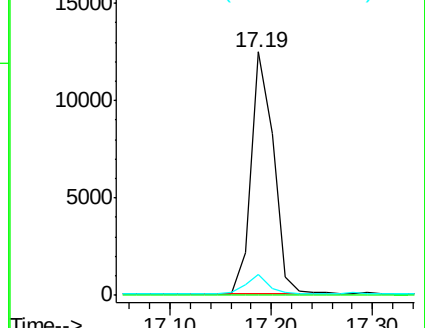
80 8.6 6.7 10.1



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: 0.226 ng

RT: 16.85 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

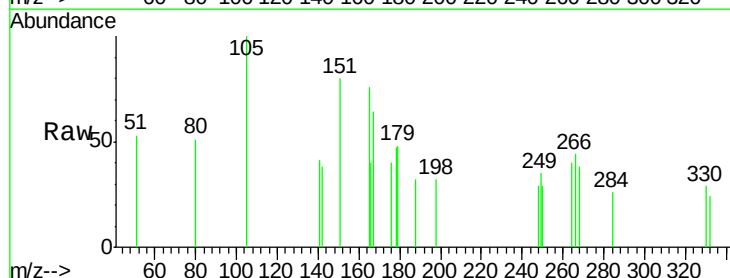
Tgt Ion:266 Resp: 65

Ion Ratio Lower Upper

266 100

264 90.7 50.8 76.2#

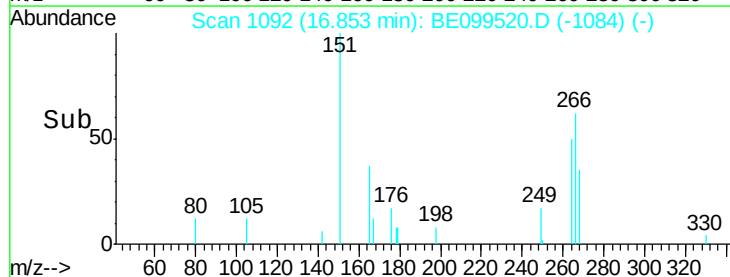
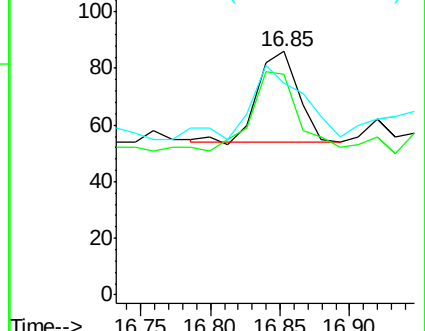
268 87.2 50.5 75.7#

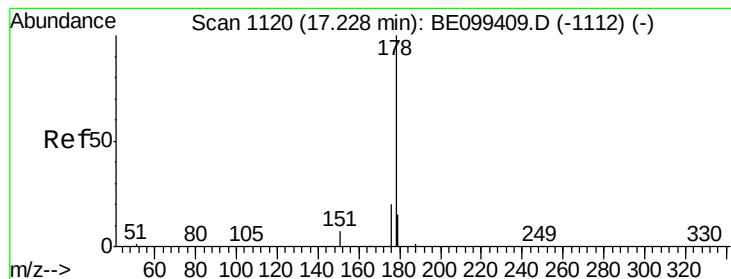


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.228 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

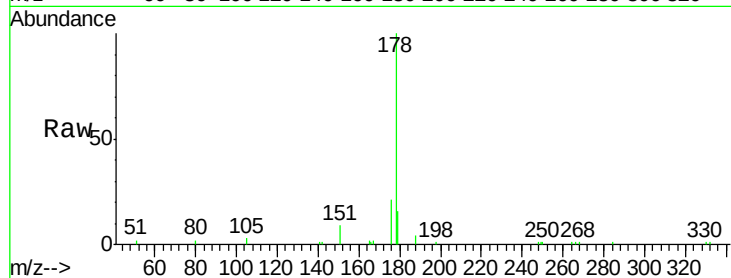
Tot Ion:178 Resp: 11372

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

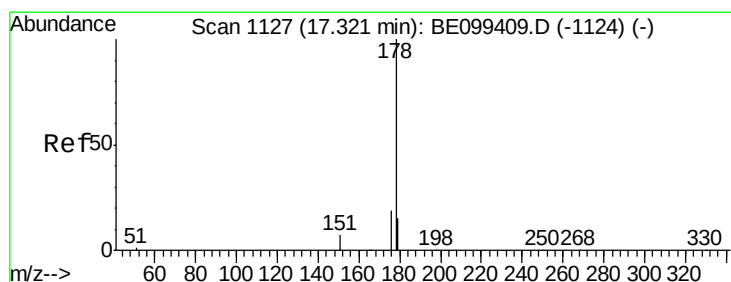
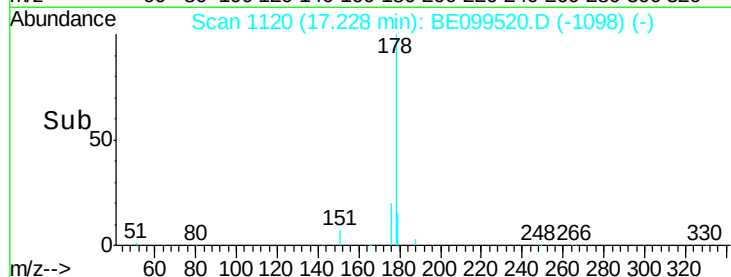
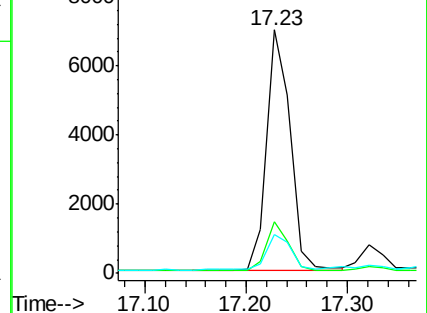
179 15.6 12.0 18.0



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: 0.021 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

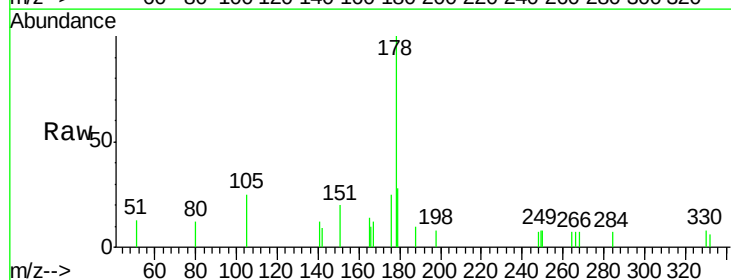
Tgt Ion:178 Resp: 978

Ion Ratio Lower Upper

178 100

176 20.3 14.9 22.3

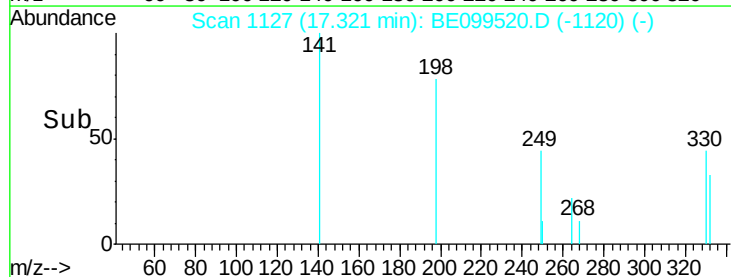
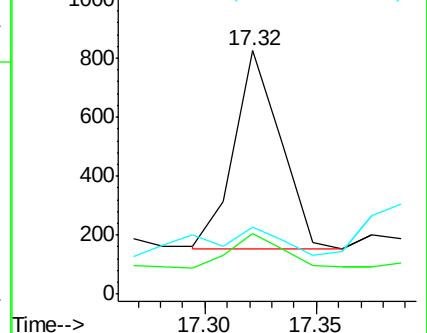
179 24.1 11.9 17.9#

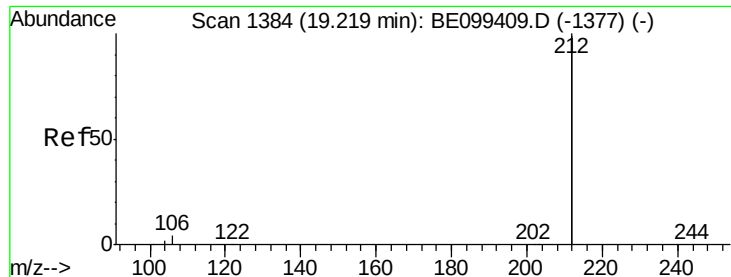


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.543 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

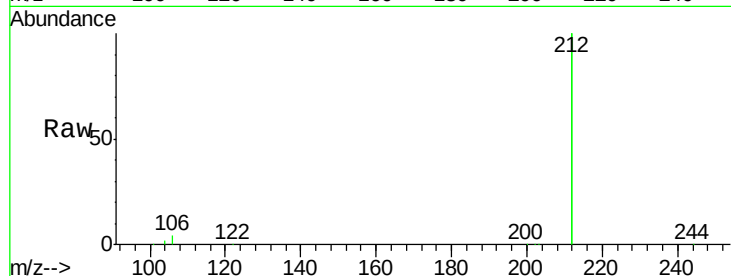
Tot Ion:212 Resp: 141682

Ion Ratio Lower Upper

212 100

106 1.7 1.5 2.3

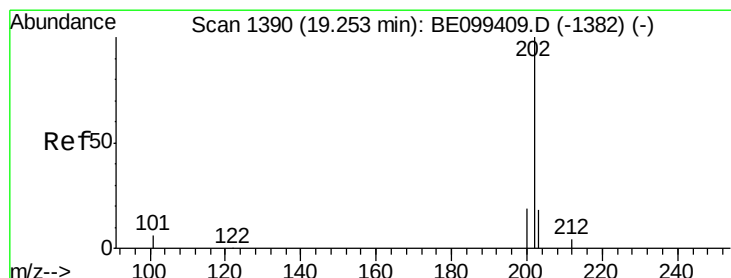
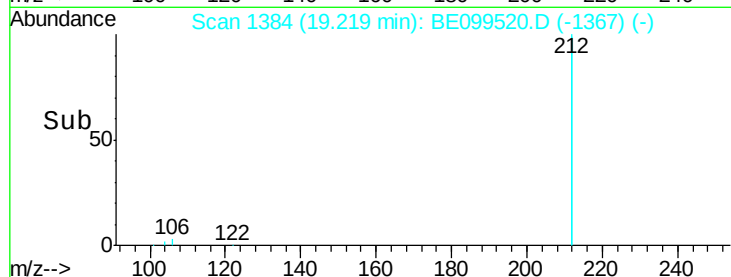
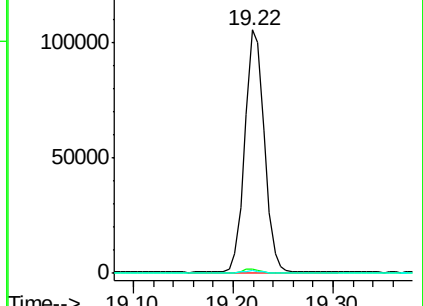
104 1.2 0.9 1.3



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: 0.388 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

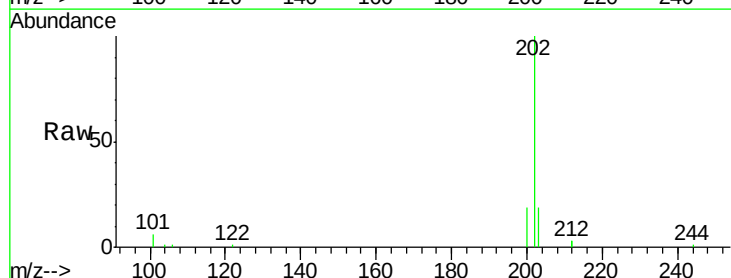
Tgt Ion:202 Resp: 29022

Ion Ratio Lower Upper

202 100

101 6.8 5.4 8.0

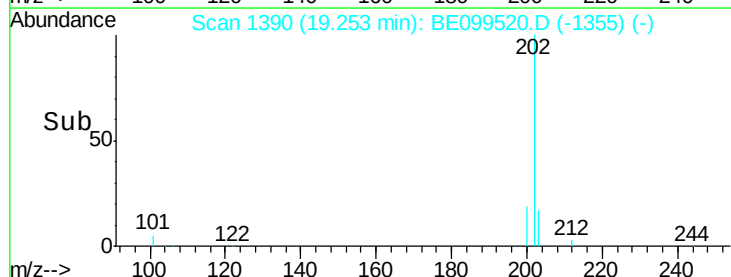
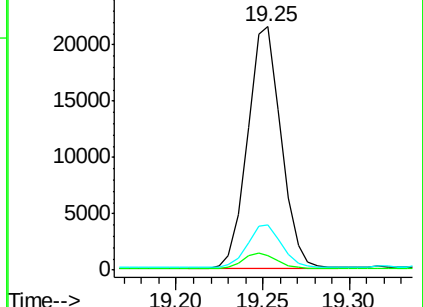
203 17.7 13.9 20.9

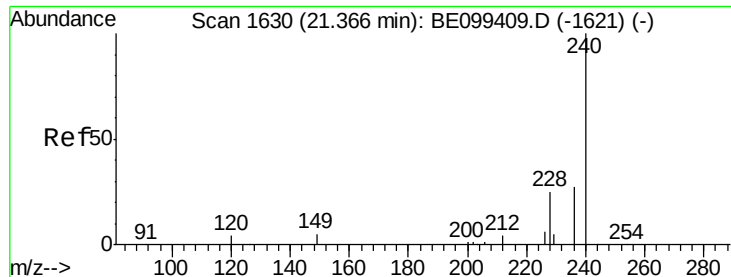


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

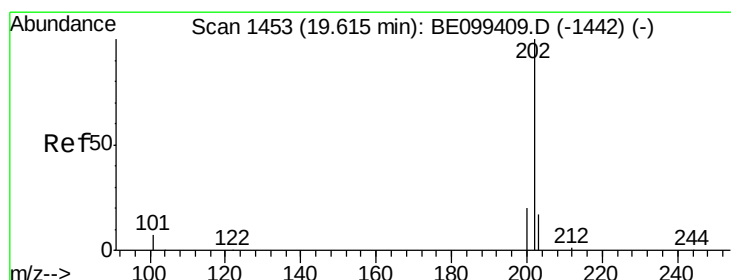
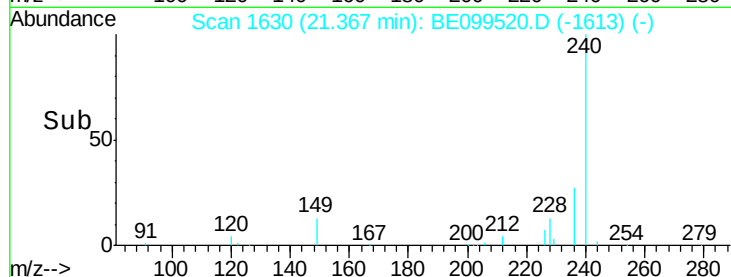
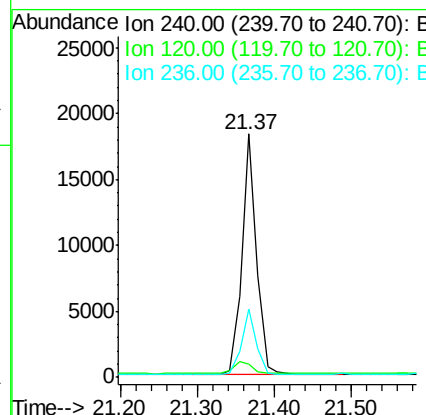
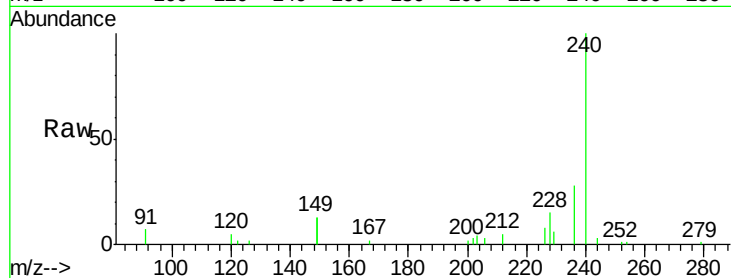




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE099520.D
Acq: 3 May 2019 7:55

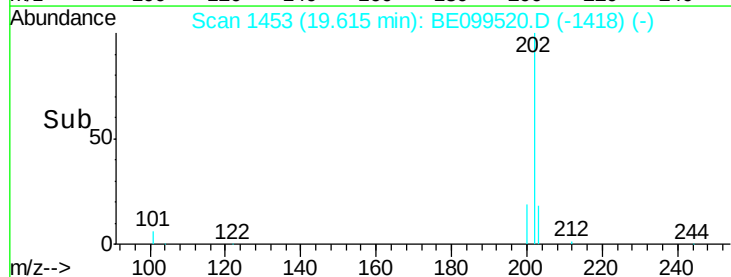
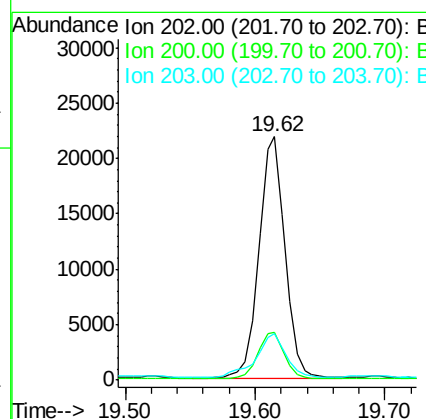
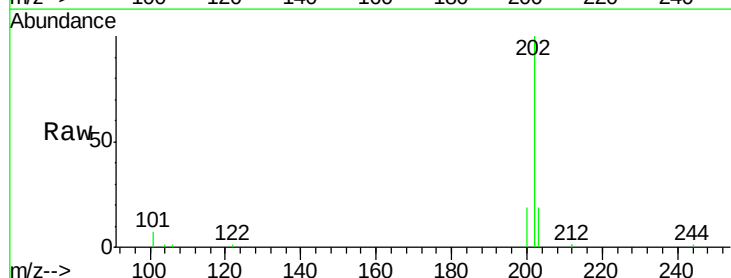
Instrument :
BNA_E
ClientSampleId :
PST-001-SW017-042419

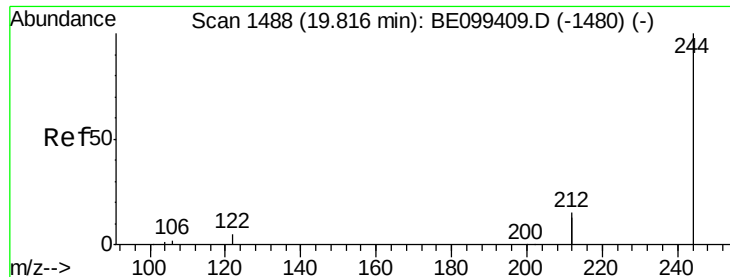
Tot Ion:240 Resp: 24215
Ion Ratio Lower Upper
240 100
120 5.3 4.0 6.0
236 28.2 22.0 33.0



#28
Pyrene
Concen: 0.485 ng
RT: 19.62 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BE099520.D
Acq: 3 May 2019 7:55

Tgt Ion:202 Resp: 30631
Ion Ratio Lower Upper
202 100
200 19.5 15.7 23.5
203 20.7 13.9 20.9





#29

Terphenyl-d14

Concen: 0.658 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

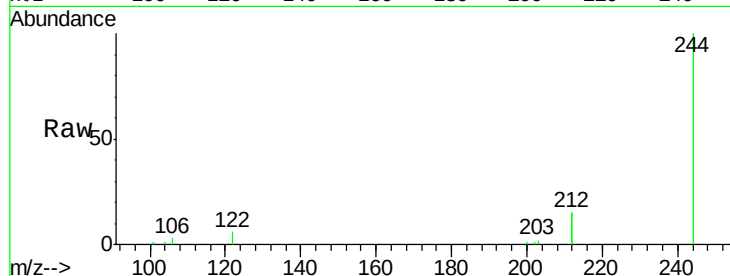
Tot Ion:244 Resp: 29193

Ion Ratio Lower Upper

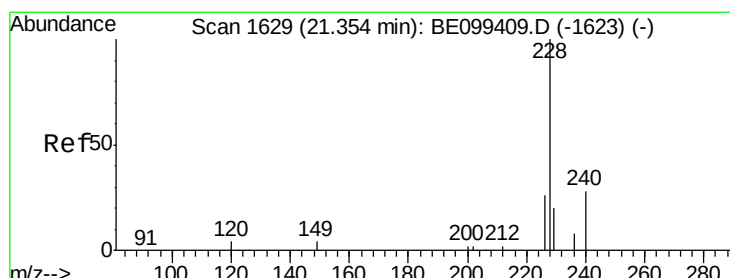
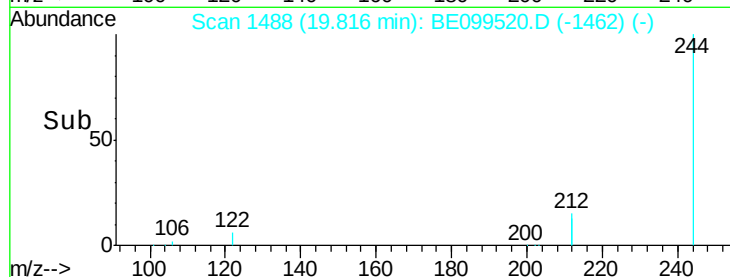
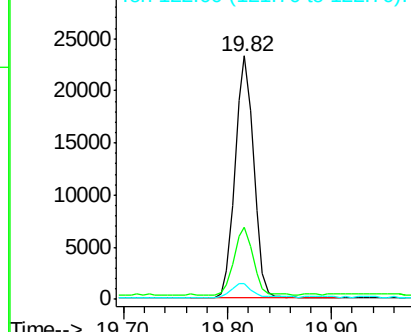
244 100

212 29.8 23.2 34.8

122 6.3 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: 0.272 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.05 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

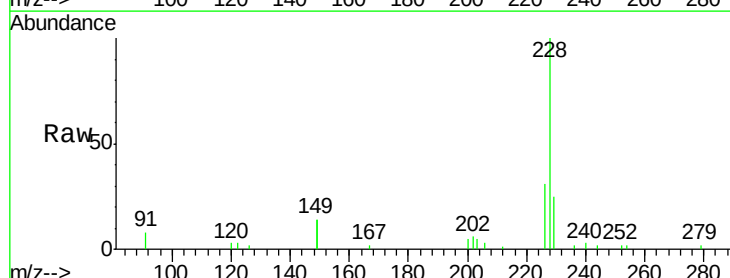
Tgt Ion:228 Resp: 20991

Ion Ratio Lower Upper

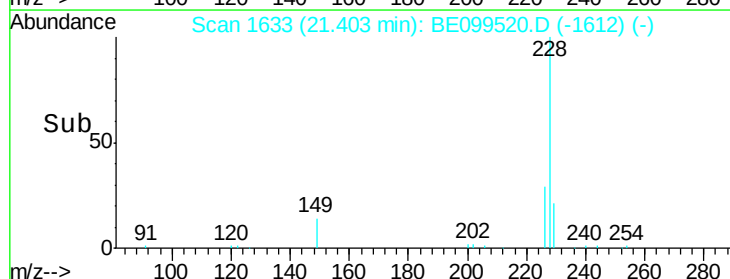
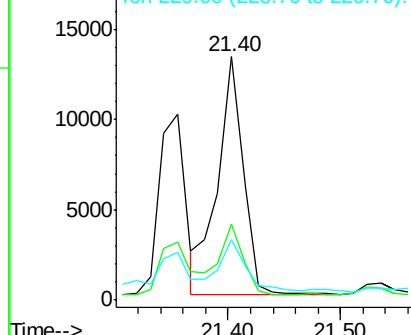
228 100

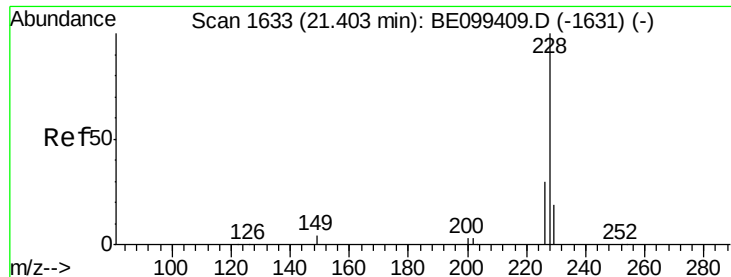
226 31.3 21.0 31.6

229 24.7 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: 0.276 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

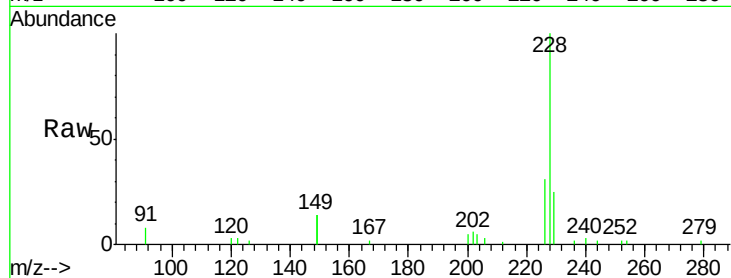
Tot Ion:228 Resp: 20875

Ion Ratio Lower Upper

228 100

226 31.3 24.0 36.0

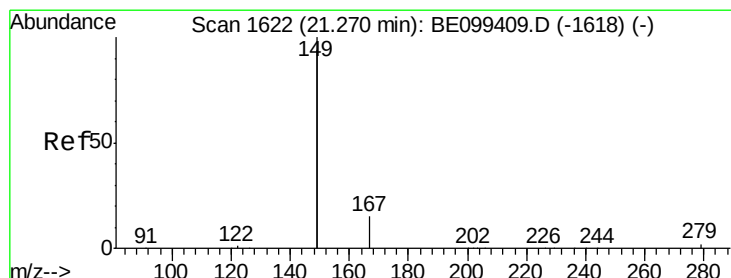
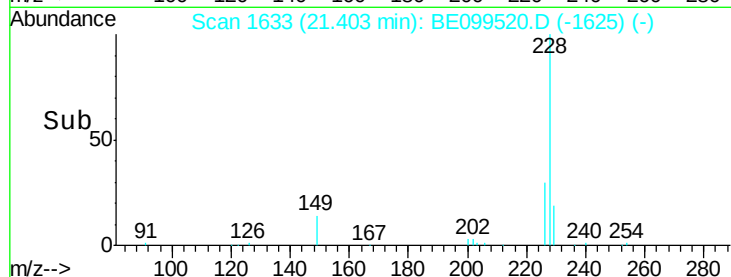
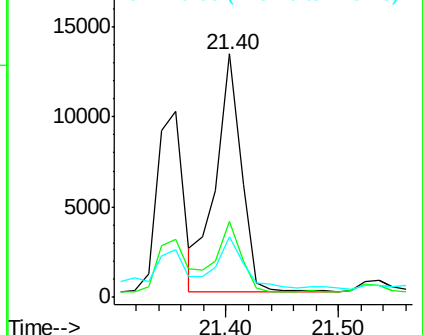
229 24.7 15.8 23.8#



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: Below Cal

RT: 21.35 min Scan# 1629

Delta R.T. 0.09 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

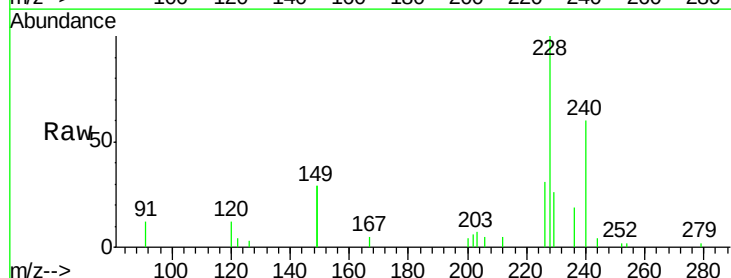
Tgt Ion:149 Resp: 3707

Ion Ratio Lower Upper

149 100

167 5.8 5.8 8.6

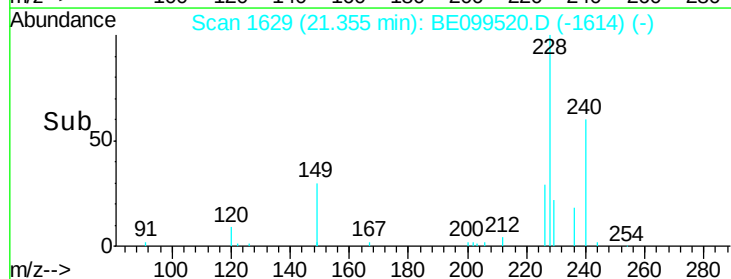
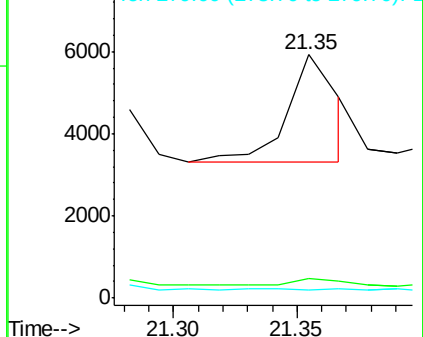
279 1.1 1.0 1.6

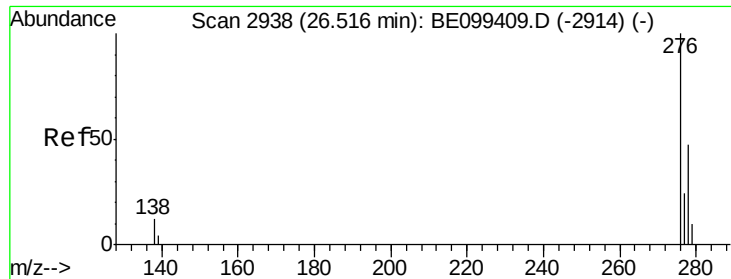


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.132 ng

RT: 26.52 min Scan# 2938

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

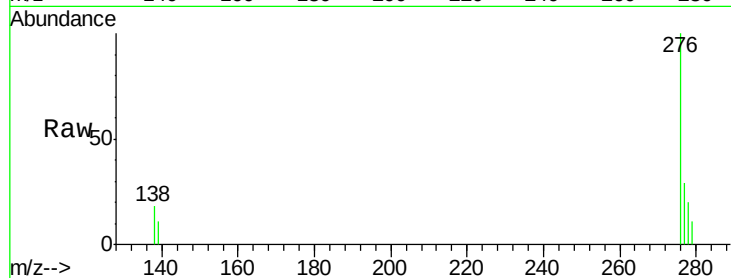
Tot Ion:276 Resp: 11804

Ion Ratio Lower Upper

276 100

138 14.1 10.2 15.2

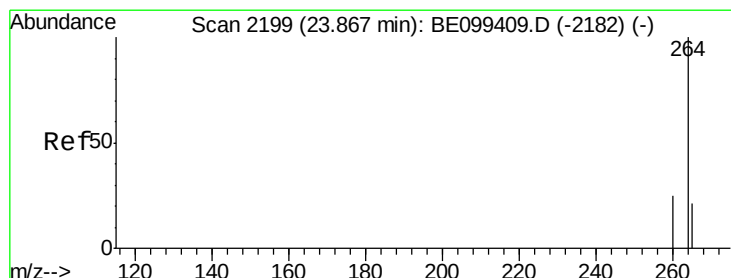
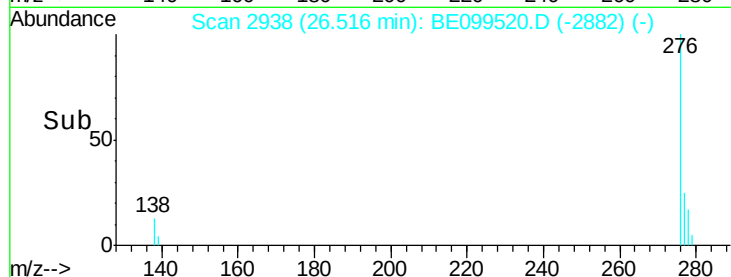
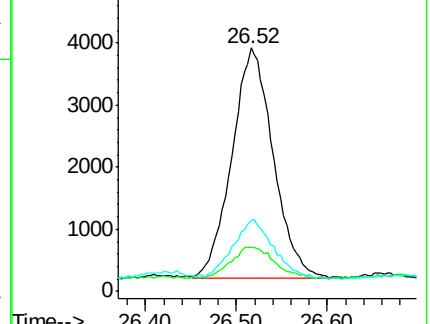
277 25.5 19.2 28.8



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

Perylene-d12

Concen: 0.400 ng

RT: 23.87 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

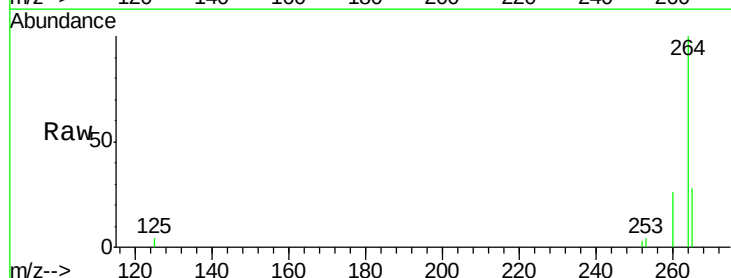
Tgt Ion:264 Resp: 27929

Ion Ratio Lower Upper

264 100

260 25.5 20.2 30.2

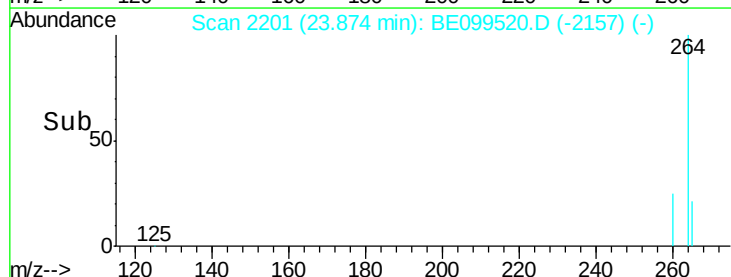
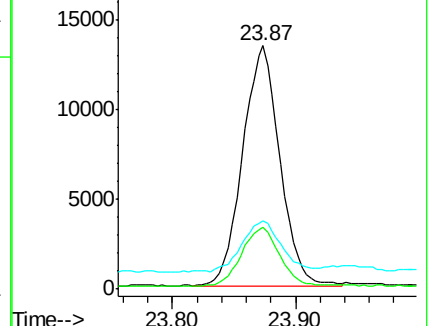
265 28.2 21.3 31.9

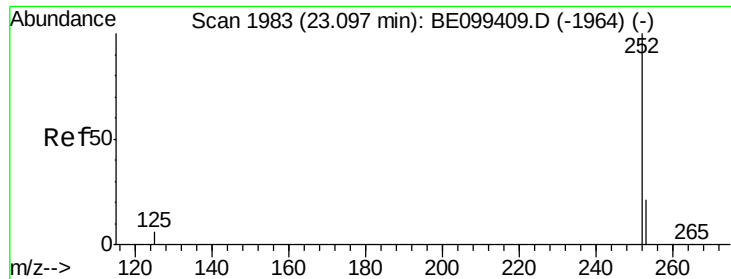


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.294 ng

RT: 23.10 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

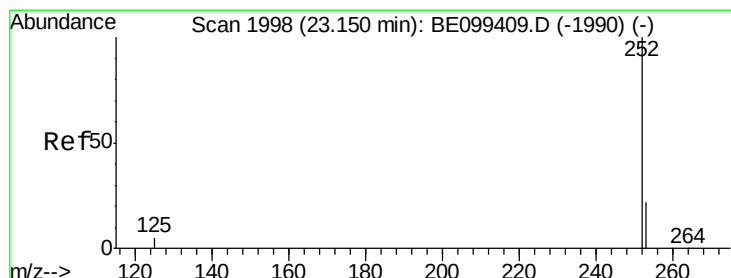
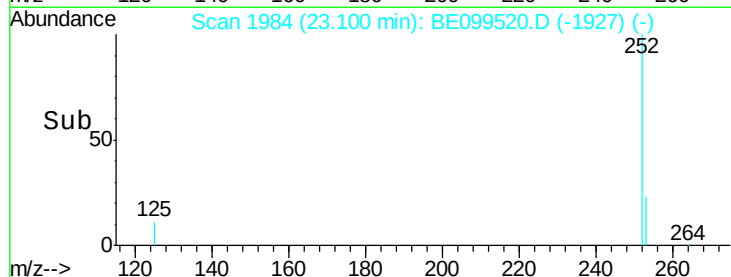
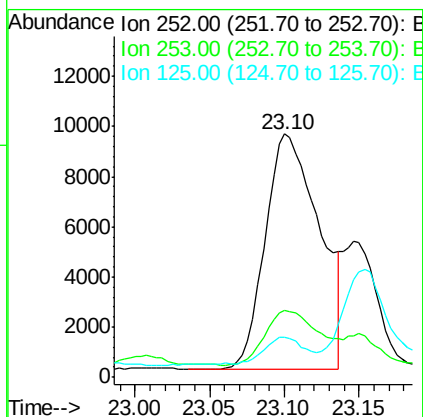
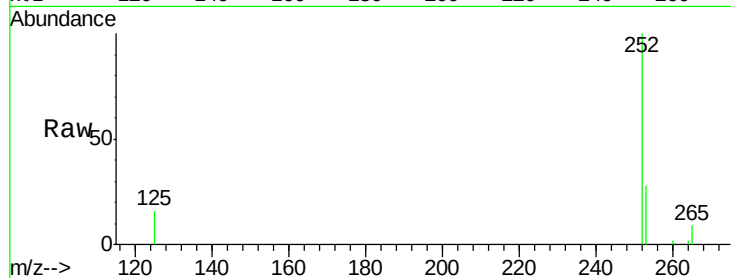
Tot Ion:252 Resp: 23688

Ion Ratio Lower Upper

252 100

253 27.5 18.1 27.1#

125 16.2 5.6 8.4#



#36

Benzo(k)fluoranthene

Concen: 0.305 ng

RT: 23.10 min Scan# 1984

Delta R.T. -0.05 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

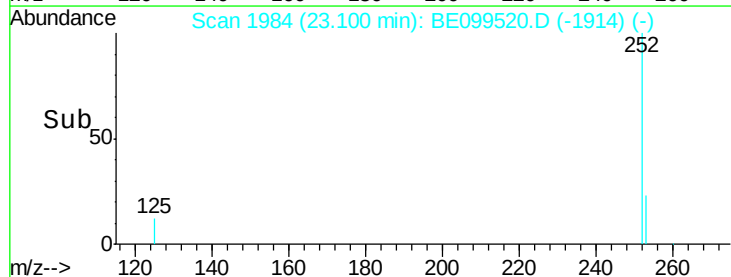
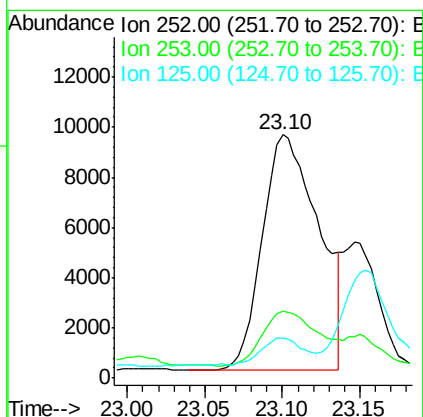
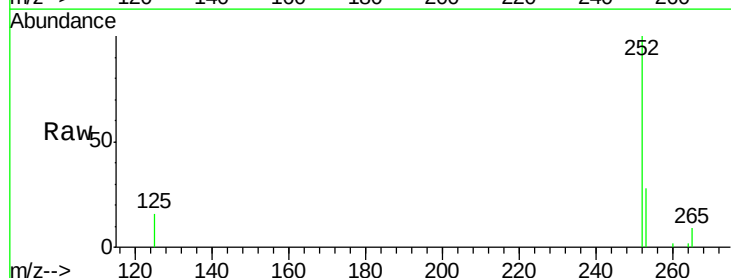
Tgt Ion:252 Resp: 23651

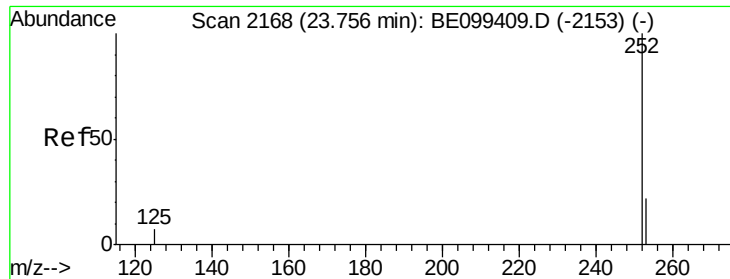
Ion Ratio Lower Upper

252 100

253 27.5 18.4 27.6

125 16.2 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.210 ng

RT: 23.76 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419

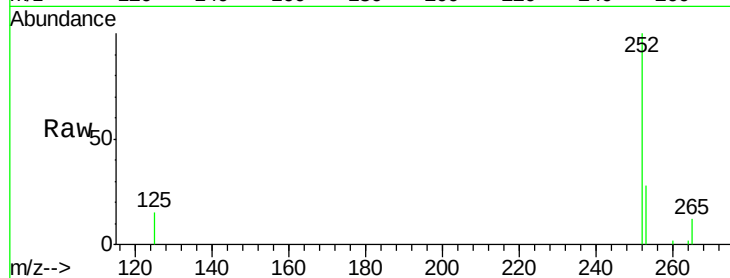
Tot Ion:252 Resp: 15957

Ion Ratio Lower Upper

252 100

253 28.1 18.9 28.3

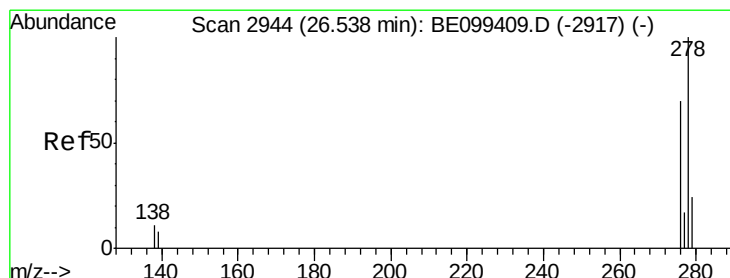
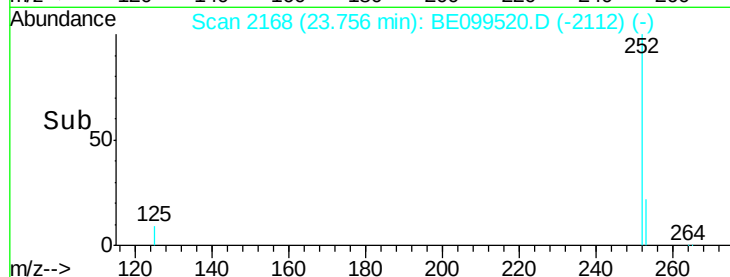
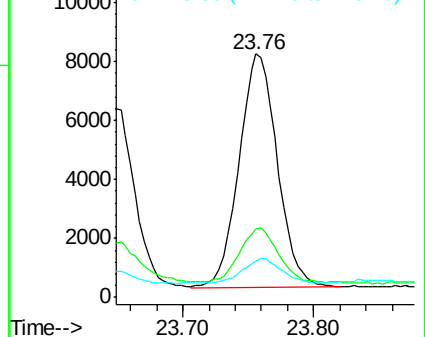
125 14.8 6.7 10.1#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.043 ng

RT: 26.53 min Scan# 2943

Delta R.T. -0.00 min

Lab File: BE099520.D

Acq: 3 May 2019 7:55

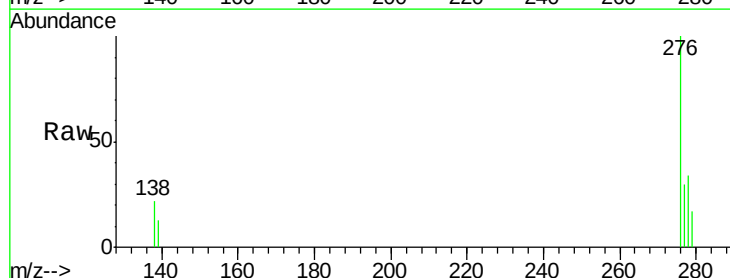
Tgt Ion:278 Resp: 3323

Ion Ratio Lower Upper

278 100

139 37.4 7.7 11.5#

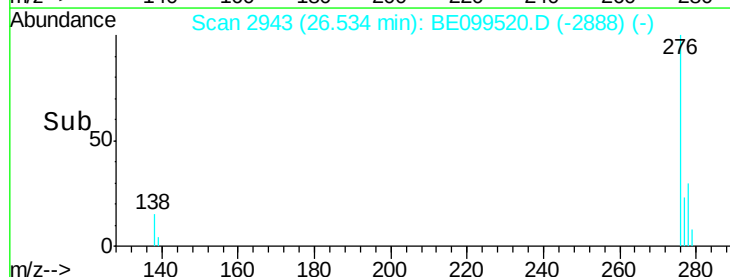
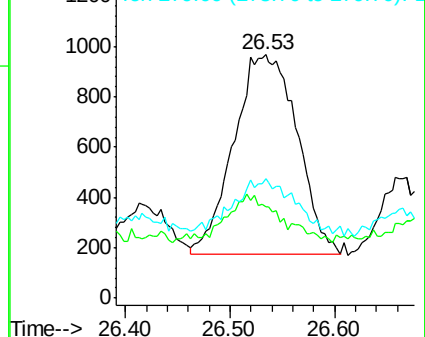
279 49.2 20.2 30.2#

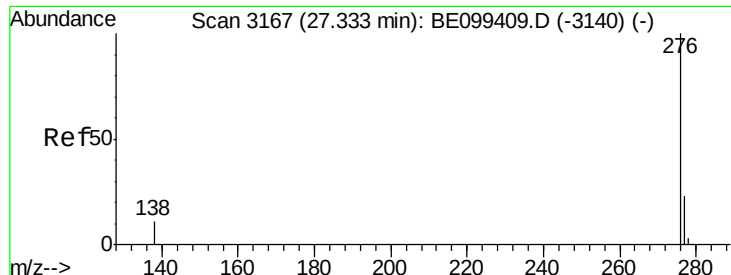


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.155 ng

RT: 27.34 min Scan# 3169

Delta R.T. 0.01 min

Lab File: BE099520.D

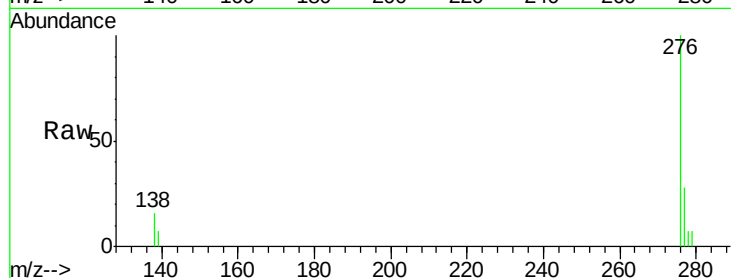
Acq: 3 May 2019 7:55

Instrument :

BNA_E

ClientSampleId :

PST-001-SW017-042419



Tot Ion: 276 Resp: 12114

Ion Ratio Lower Upper

276 100

277 27.6 19.5 29.3

138 15.6 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

