

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050119\
 Data File : BE099461.D
 Acq On : 1 May 2019 13:16
 Operator : JU/SJ
 Sample : K2589-04
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B197-042519

Quant Time: May 02 04:13:31 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	1810	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	6600	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5305	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	18865	0.40	ng	0.00
27) Chrysene-d12	21.37	240	24016	0.40	ng	0.00
34) Perylene-d12	23.86	264	27666	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2137	0.43	ng	0.00
5) Phenol-d6	6.97	99	2867	0.43	ng	0.00
8) Nitrobenzene-d5	8.96	82	2359	0.38	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	4487	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.93	330	1530	0.46	ng	-0.01
15) 2-Fluorobiphenyl	13.07	172	6766	0.33	ng	-0.02
25) Fluoranthene-d10	19.22	212	85492	0.34	ng	0.00
29) Terphenyl-d14	19.81	244	16821	0.38	ng	0.00

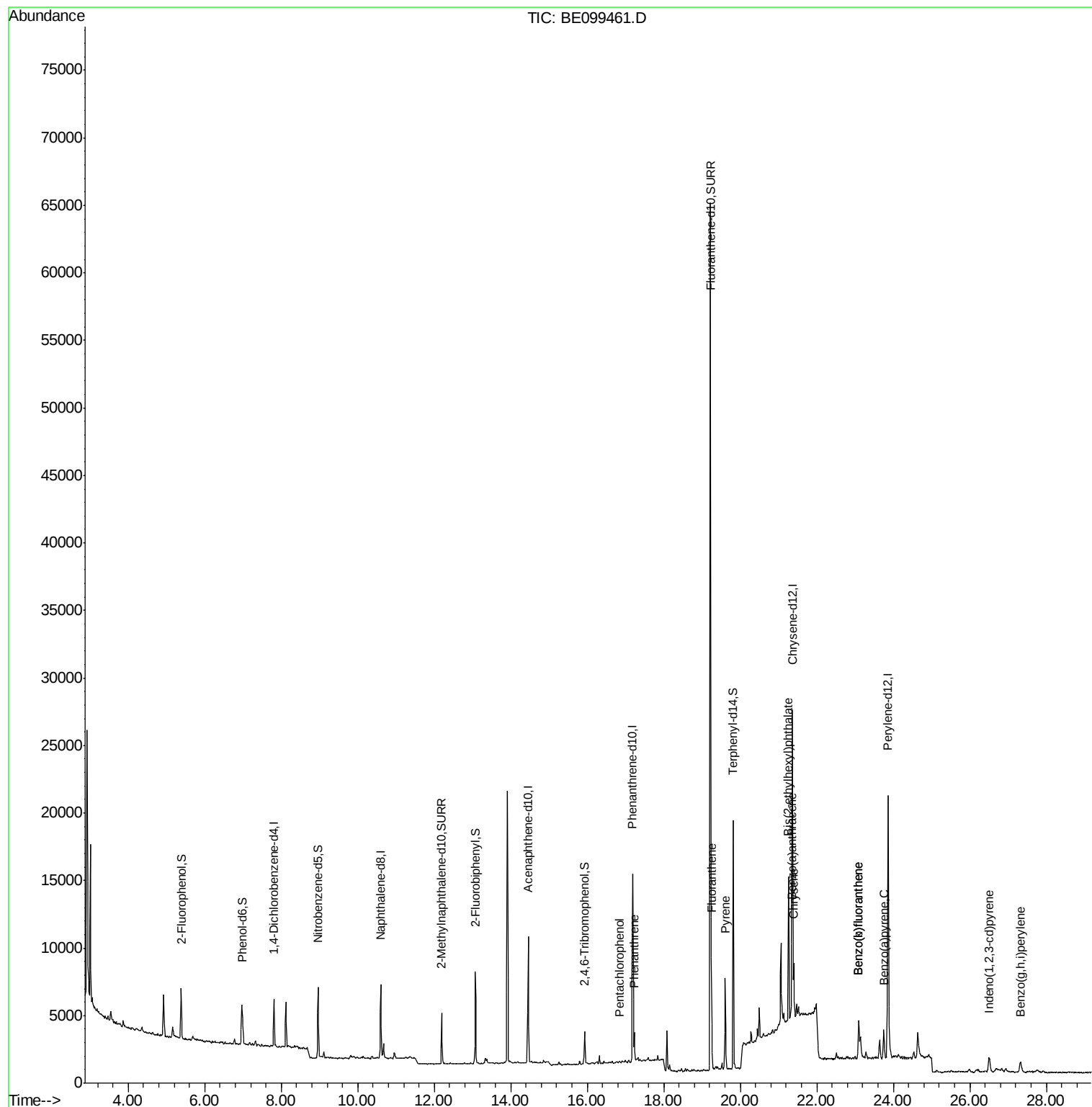
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	16.84	266	38	0.222	ng	# 62
23) Phenanthrene	17.23	178	2080	0.043	ng	# 94
26) Fluoranthene	19.25	202	6583	0.090	ng	# 99
28) Pyrene	19.61	202	6328	0.101	ng	# 96
30) Benzo(a)anthracene	21.34	228	3774	0.049	ng	# 88
31) Chrysene	21.40	228	3904	0.052	ng	# 92
32) Bis(2-ethylhexyl)phthalate	21.26	149	15388	0.071	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.50	276	2125	0.024	ng	# 91
35) Benzo(b)fluoranthene	23.09	252	4893	0.061	ng	# 48
36) Benzo(k)fluoranthene	23.09	252	4893	0.064	ng	# 50
37) Benzo(a)pyrene	23.75	252	3165	0.042	ng	# 52
39) Benzo(a,h,i)perylene	27.32	276	2123	0.027	ng	# 68

(#) = 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: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

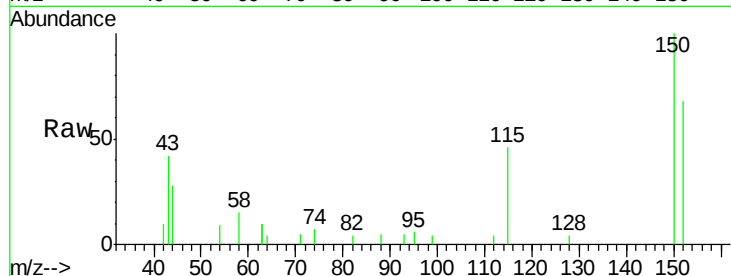
Tot Ion:152 Resp: 1810

Ion Ratio Lower Upper

152 100

150 146.2 104.8 157.2

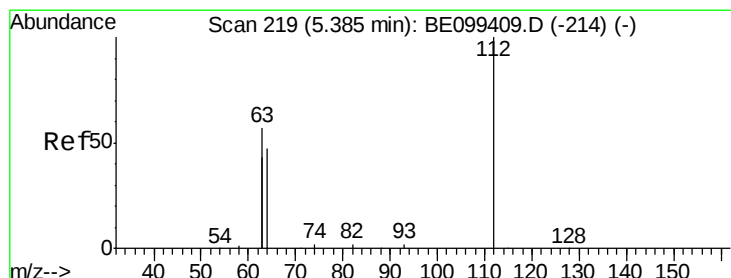
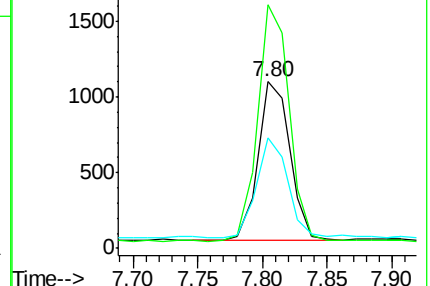
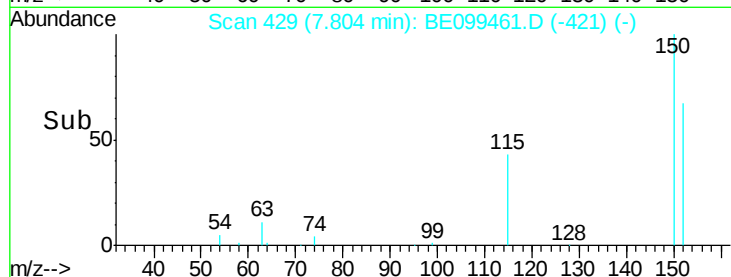
115 66.7 46.6 69.8



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



#4

2-Fluorophenol

Concen: 0.427 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

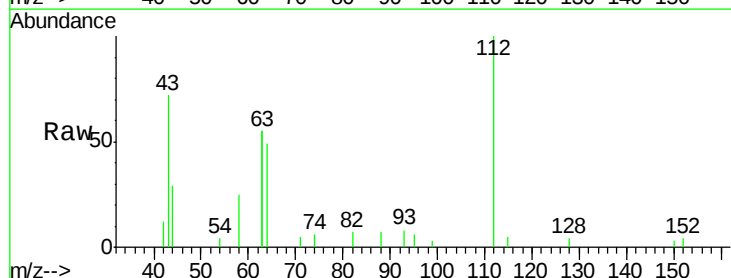
Tgt Ion:112 Resp: 2137

Ion Ratio Lower Upper

112 100

64 53.8 47.4 71.0

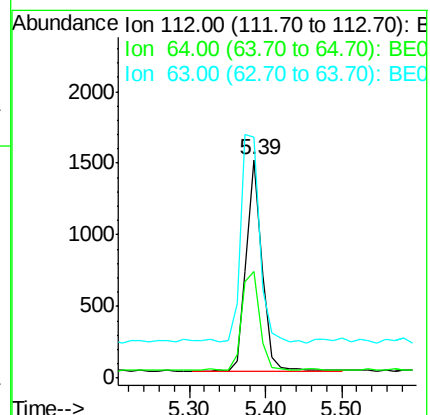
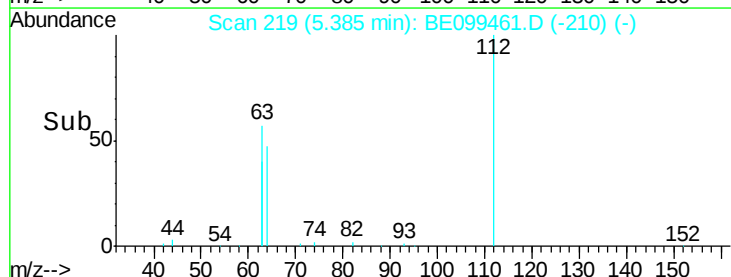
63 120.5 104.3 156.5



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





#5

Phenol-d6

Concen: 0.431 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

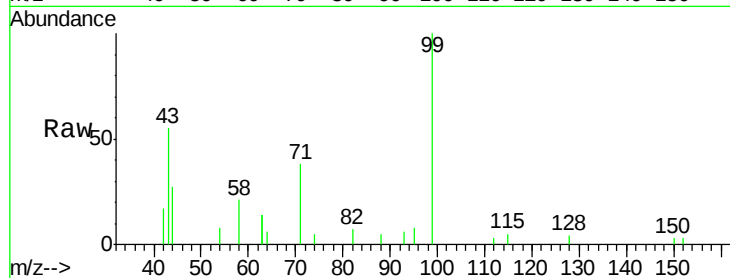
Tot Ion: 99 Resp: 2867

Ion Ratio Lower Upper

99 100

42 18.9 14.9 22.3

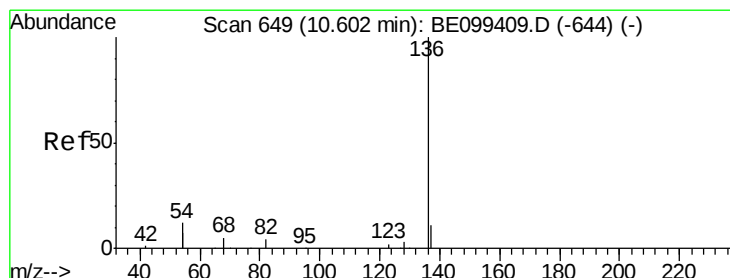
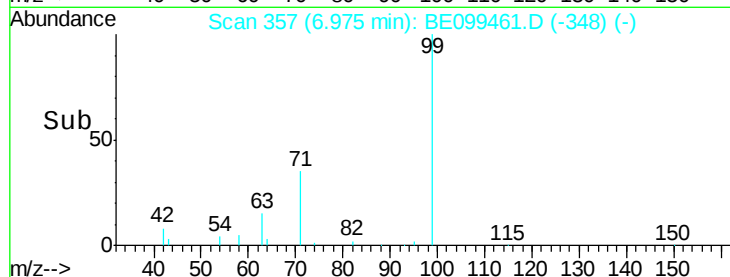
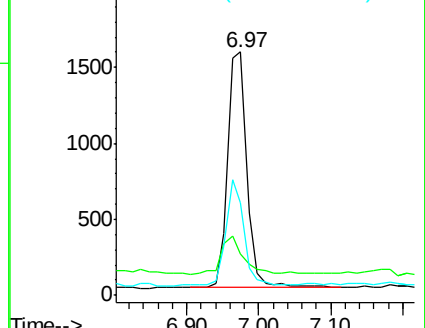
71 42.5 33.0 49.6



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: BE099461.D

Acq: 1 May 2019 13:16

Tgt Ion: 136 Resp: 6600

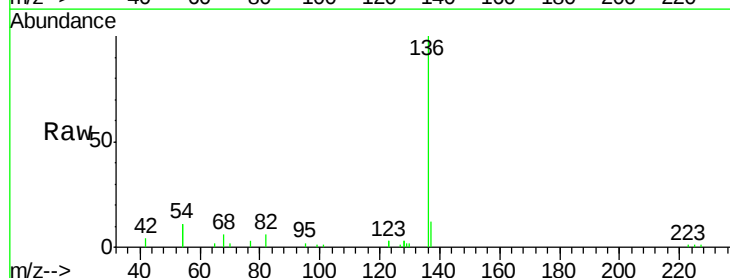
Ion Ratio Lower Upper

136 100

137 11.9 9.8 14.8

54 22.1 18.5 27.7

68 6.5 4.7 7.1

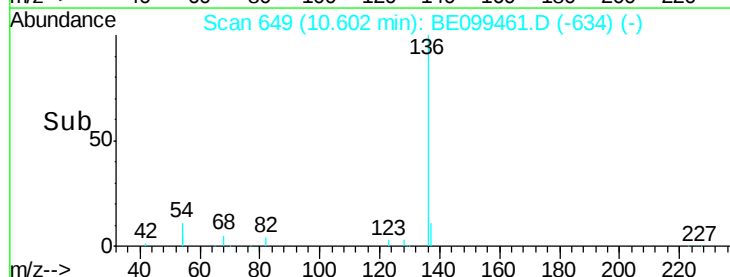
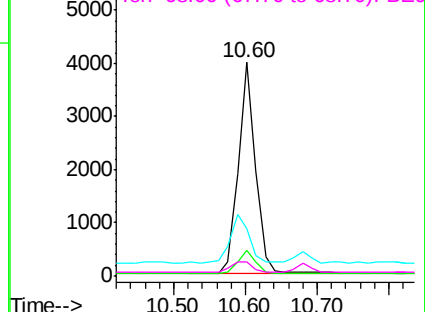


Abundance Ion 136.00 (135.70 to 136.70): E

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

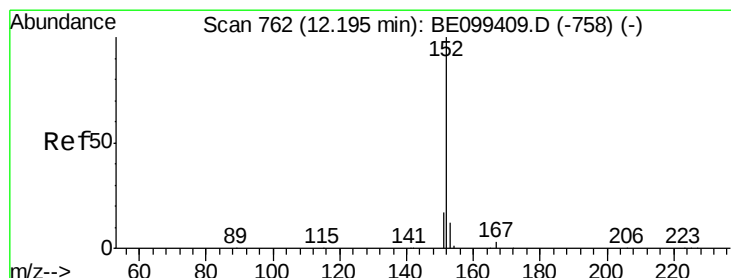
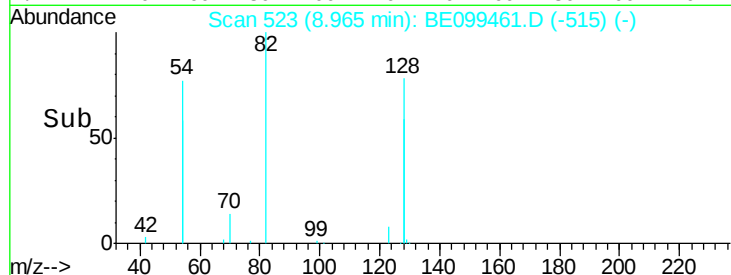
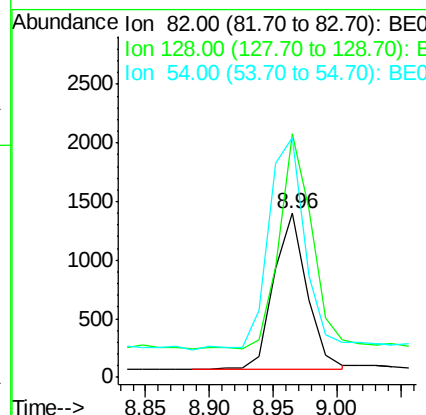
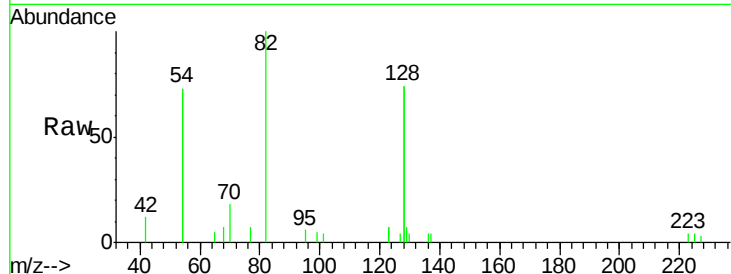




#8
 Nitrobenzene-d5
 Concen: 0.381 ng
 RT: 8.96 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: BE099461.D
 Acq: 1 May 2019 13:16

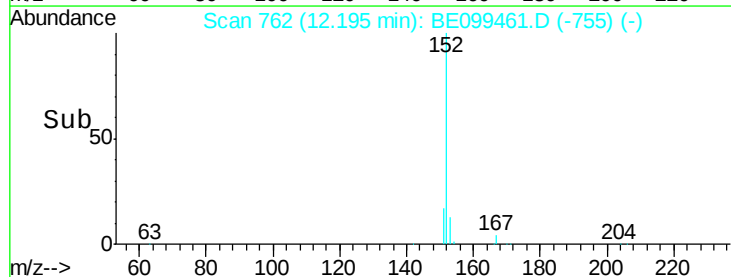
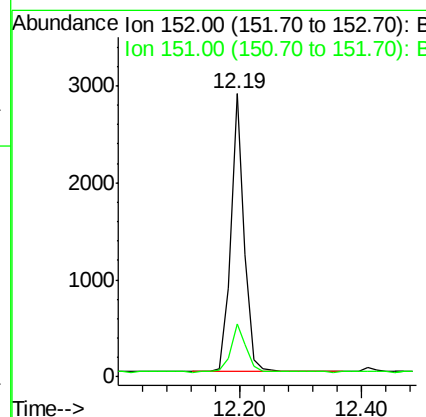
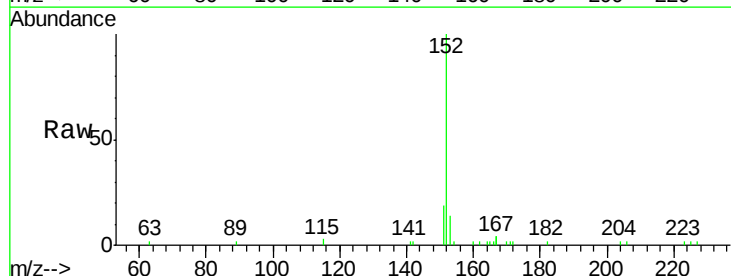
Instrument :
 BNA_E
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 PST-001-B197-042519

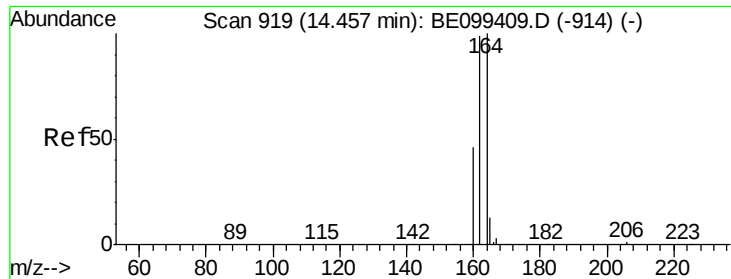
Tot Ion: 82 Resp: 2359
 Ion Ratio Lower Upper
 82 100
 128 148.3 107.0 160.4
 54 146.0 113.1 169.7



#11
 2-Methylnaphthalene-d10
 Concen: 0.377 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099461.D
 Acq: 1 May 2019 13:16

Tgt Ion: 152 Resp: 4487
 Ion Ratio Lower Upper
 152 100
 151 19.5 15.5 23.3

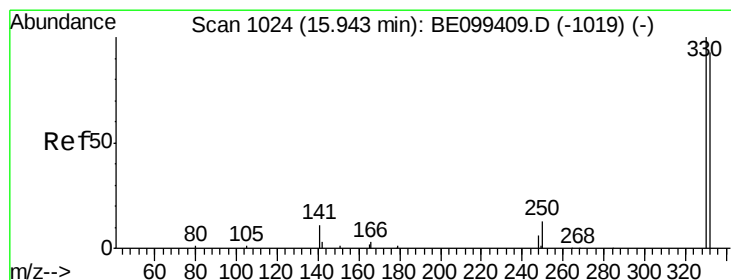
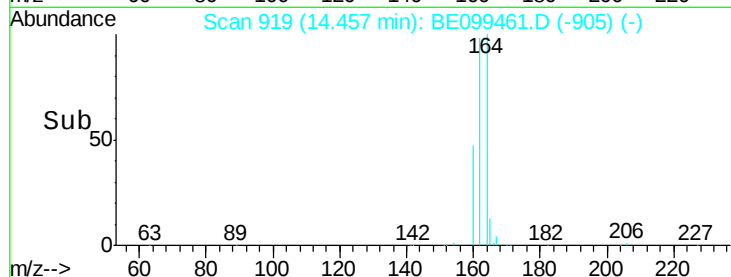
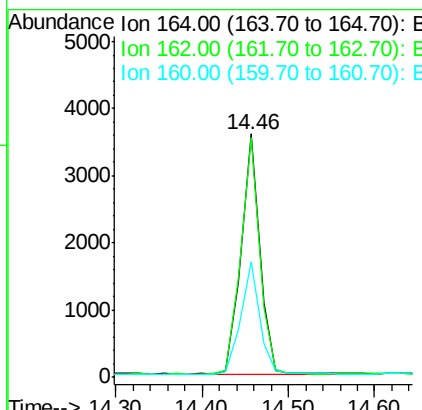
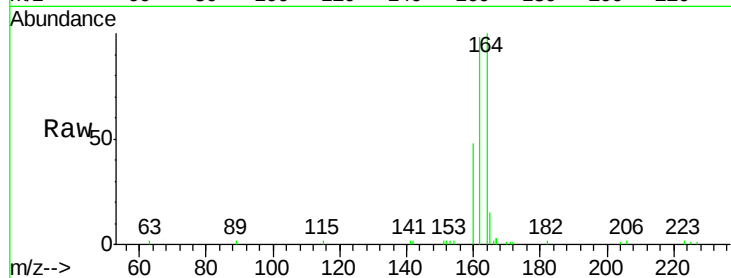




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.00 min
Lab File: BE099461.D
Acq: 1 May 2019 13:16

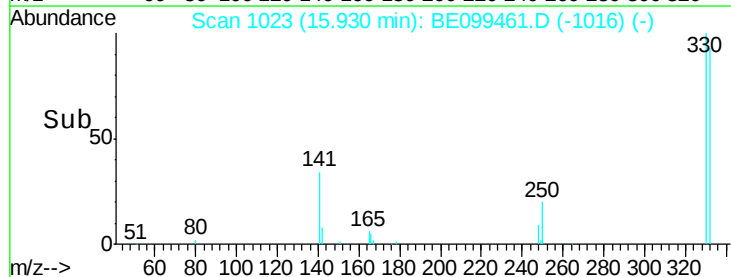
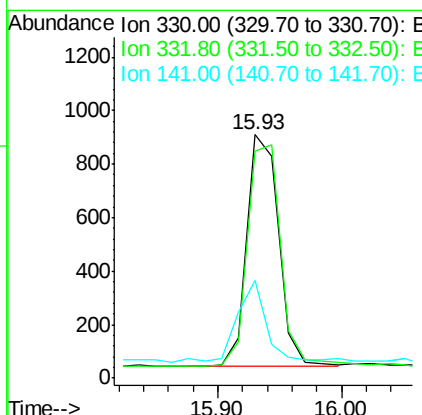
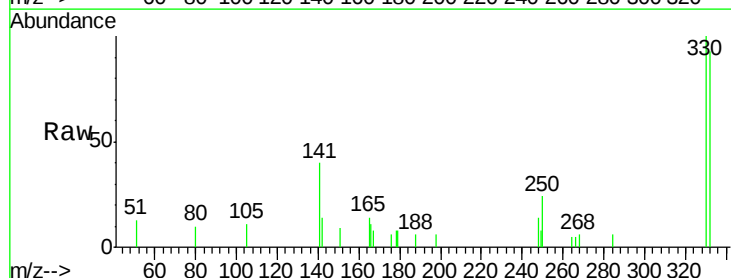
Instrument :
BNA_E
ClientSampleId :
PST-001-B197-042519

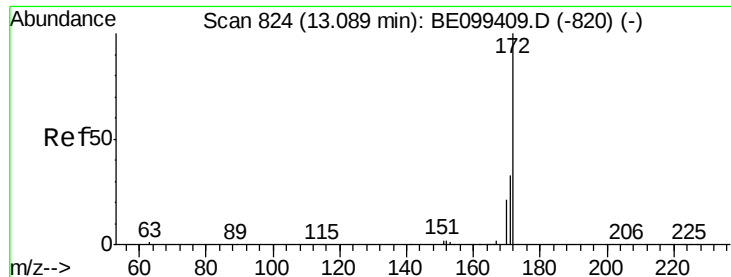
Tot Ion:164 Resp: 5305
Ion Ratio Lower Upper
164 100
162 98.3 79.0 118.4
160 47.7 37.0 55.4



#14
2,4,6-Tribromophenol
Concen: 0.458 ng
RT: 15.93 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BE099461.D
Acq: 1 May 2019 13:16

Tgt Ion:330 Resp: 1530
Ion Ratio Lower Upper
330 100
332 103.8 71.5 107.3
141 35.0 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.334 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.02 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

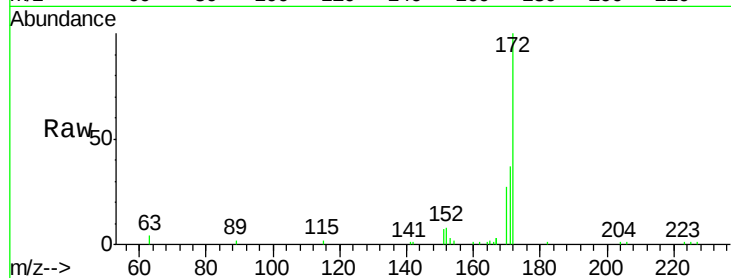
Tot Ion:172 Resp: 6766

Ion Ratio Lower Upper

172 100

171 36.6 26.6 39.8

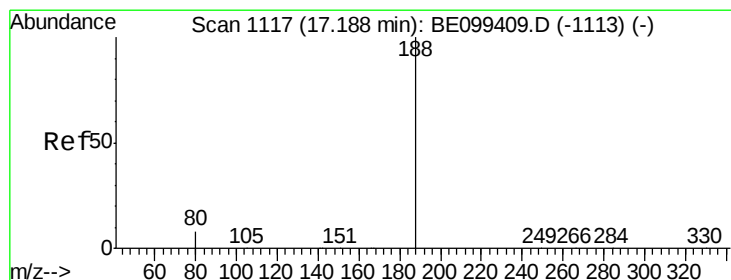
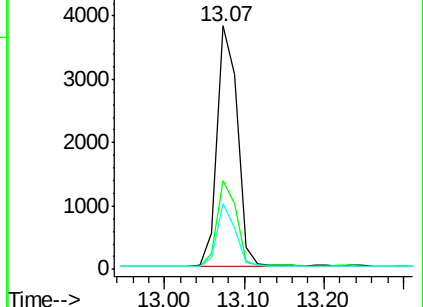
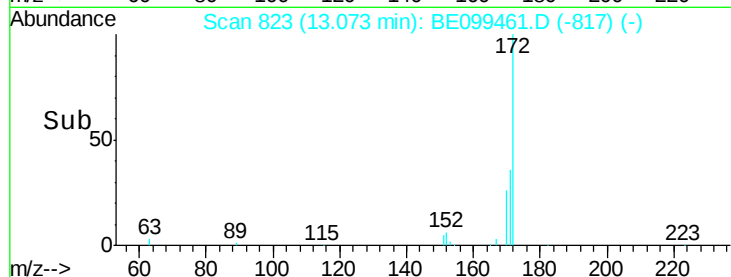
170 26.8 17.0 25.6#



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

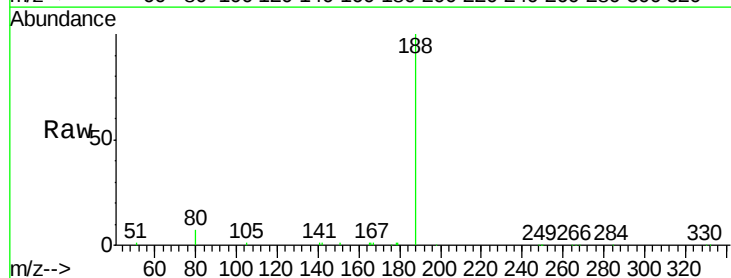
Tgt Ion:188 Resp: 18865

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

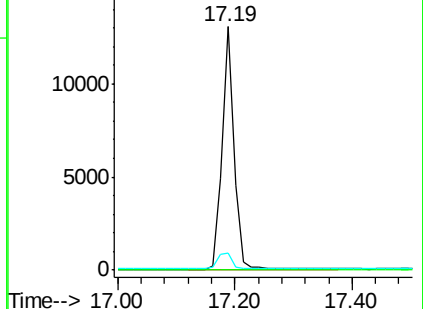
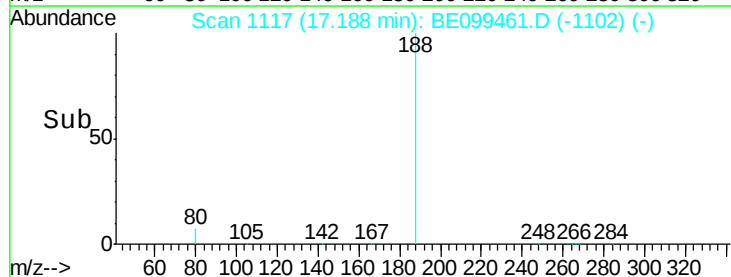
80 7.1 6.7 10.1

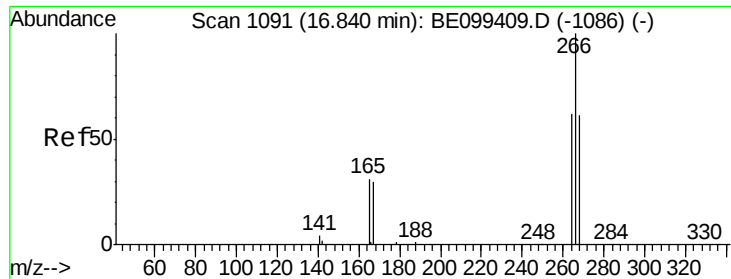


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

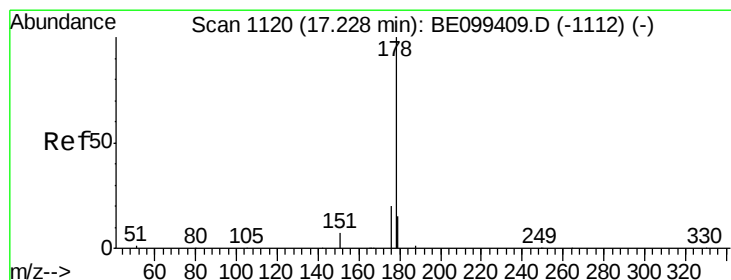
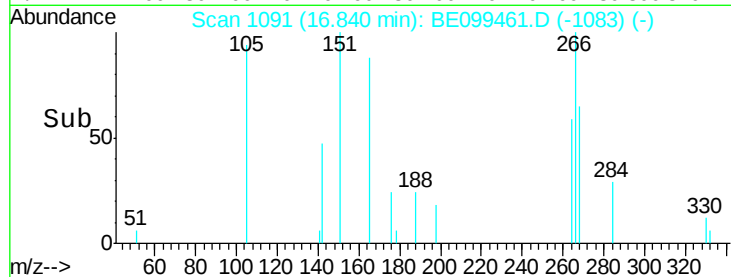
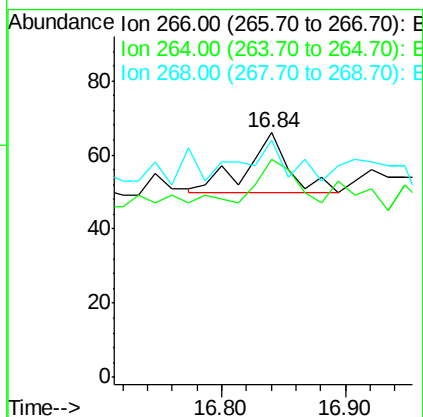
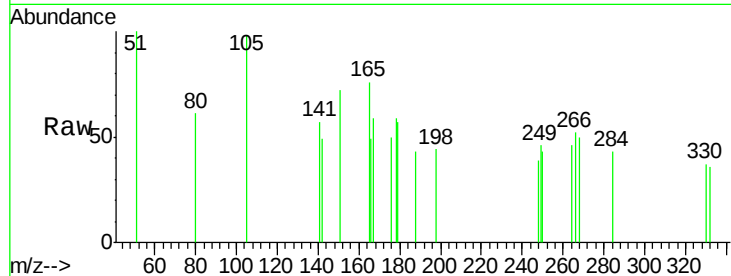




#22
 Pentachlorophenol
 Concen: 0.222 ng
 RT: 16.84 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: BE099461.D
 Acq: 1 May 2019 13:16

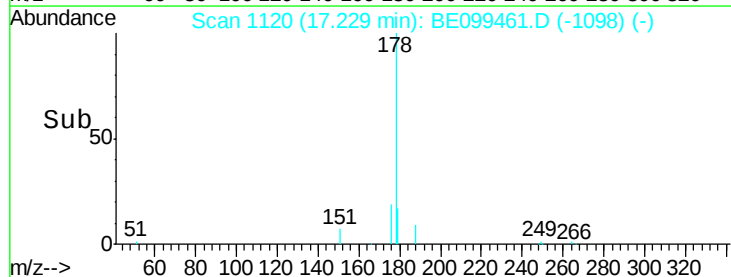
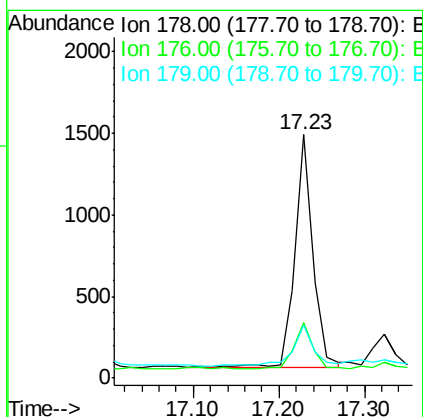
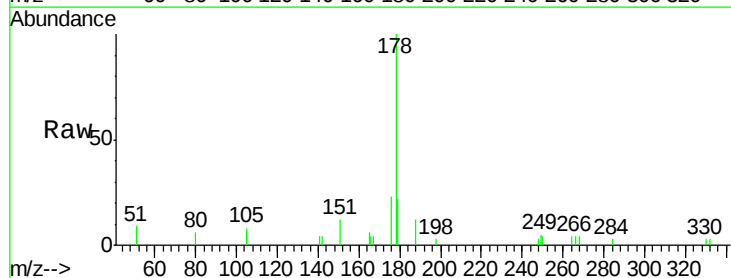
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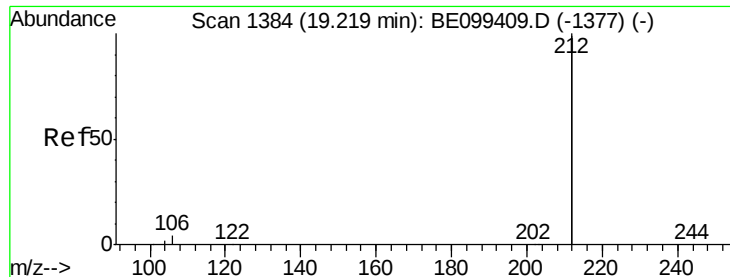
Tot Ion:266 Resp: 38
 Ion Ratio Lower Upper
 266 100
 264 89.4 50.8 76.2#
 268 97.0 50.5 75.7#



#23
 Phenanthrene
 Concen: 0.043 ng
 RT: 17.23 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: BE099461.D
 Acq: 1 May 2019 13:16

Tgt Ion:178 Resp: 2080
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.6 23.4
 179 20.0 12.0 18.0#





#25

Fluoranthene-d10

Concen: 0.336 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

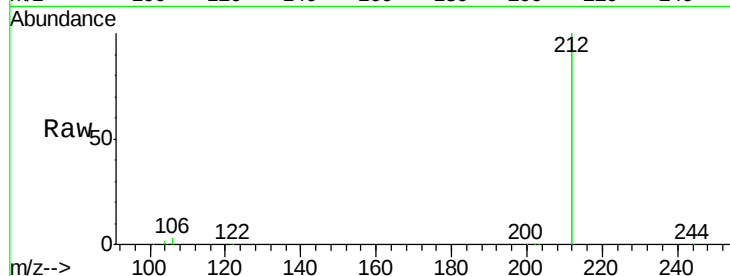
Tot Ion:212 Resp: 85492

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

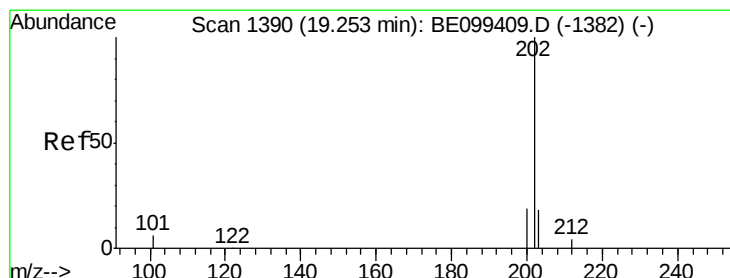
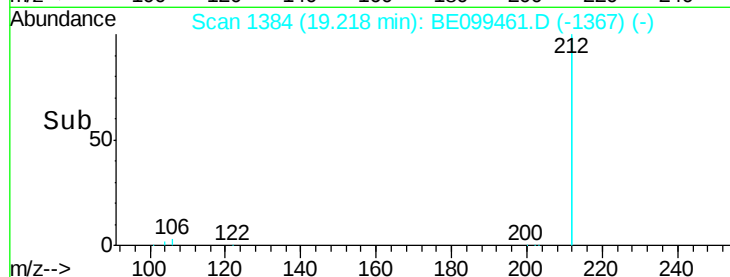
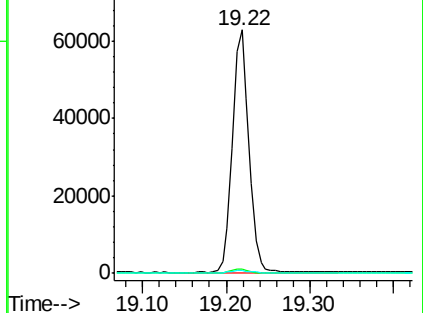
104 1.4 0.9 1.3#



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: 0.090 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

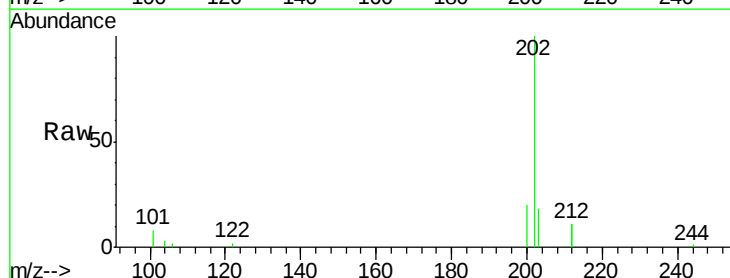
Tgt Ion:202 Resp: 6583

Ion Ratio Lower Upper

202 100

101 7.9 5.4 8.0

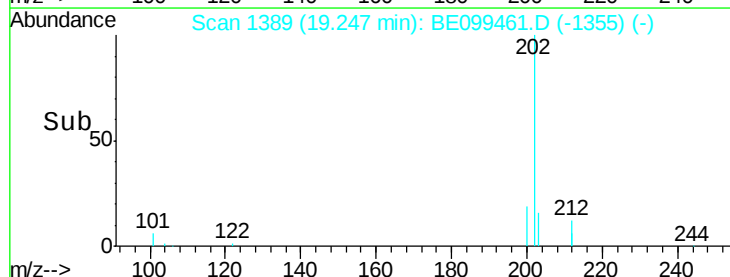
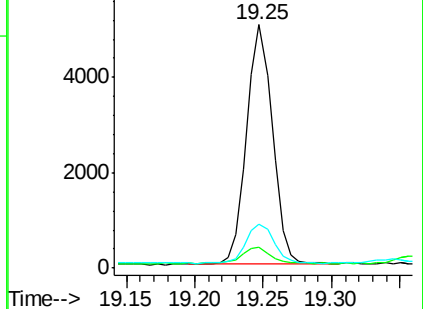
203 17.7 13.9 20.9

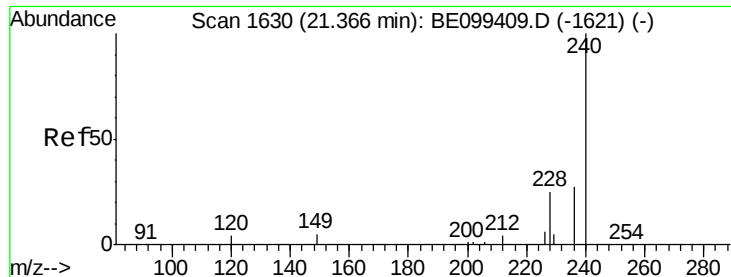


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

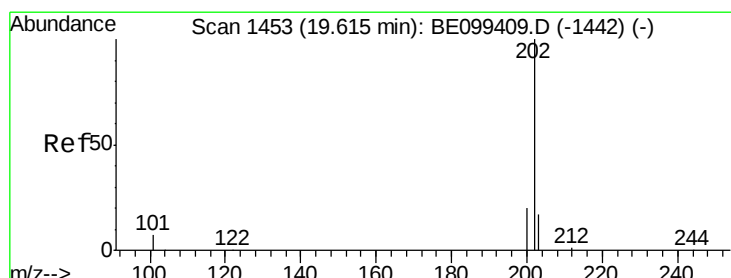
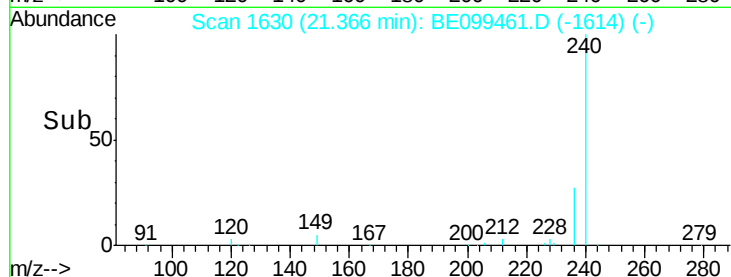
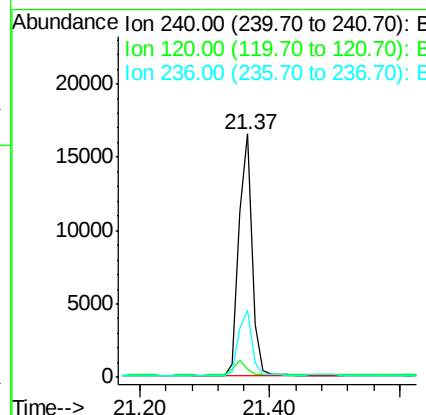
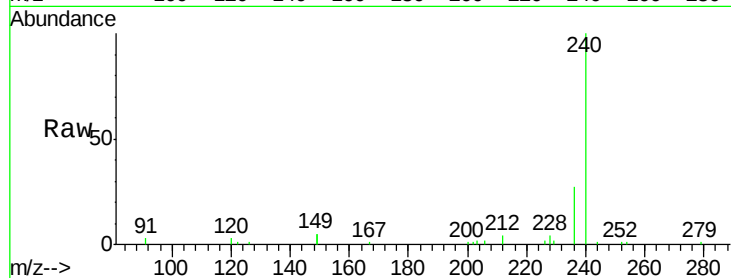




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE099461.D
Acq: 1 May 2019 13:16

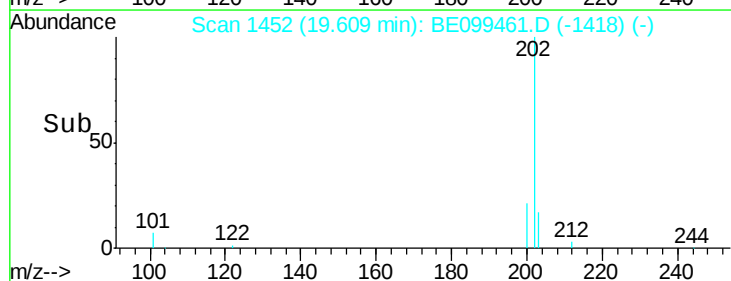
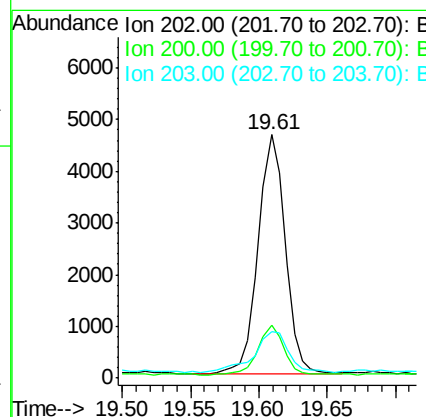
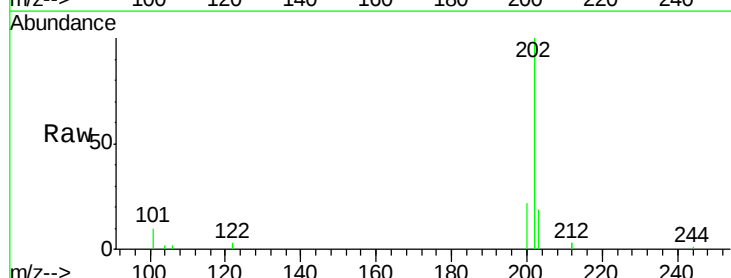
Instrument :
BNA_E
ClientSampleId :
PST-001-B197-042519

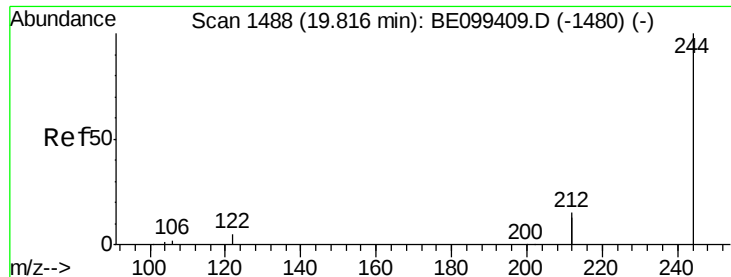
Tot Ion:240 Resp: 24016
Ion Ratio Lower Upper
240 100
120 3.5 4.0 6.0#
236 27.3 22.0 33.0



#28
Pyrene
Concen: 0.101 ng
RT: 19.61 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BE099461.D
Acq: 1 May 2019 13:16

Tgt Ion:202 Resp: 6328
Ion Ratio Lower Upper
202 100
200 19.7 15.7 23.5
203 21.4 13.9 20.9#





#29

Terphenyl-d14

Concen: 0.382 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

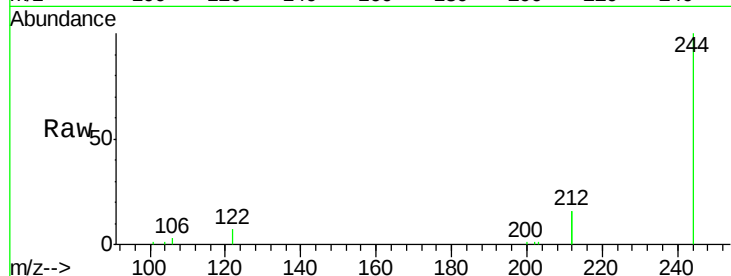
Tot Ion:244 Resp: 16821

Ion Ratio Lower Upper

244 100

212 31.1 23.2 34.8

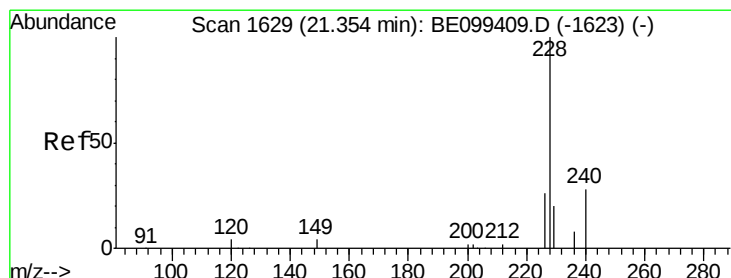
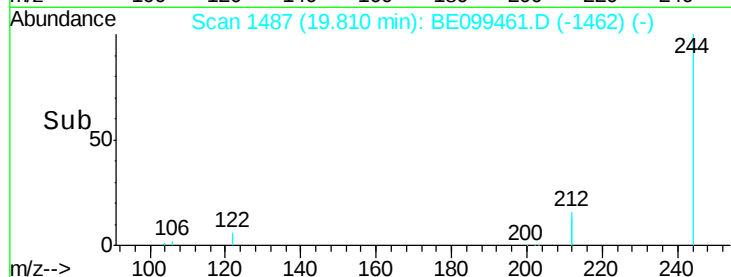
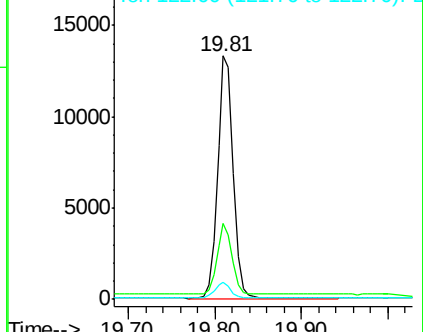
122 7.0 4.2 6.4#



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: 0.049 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

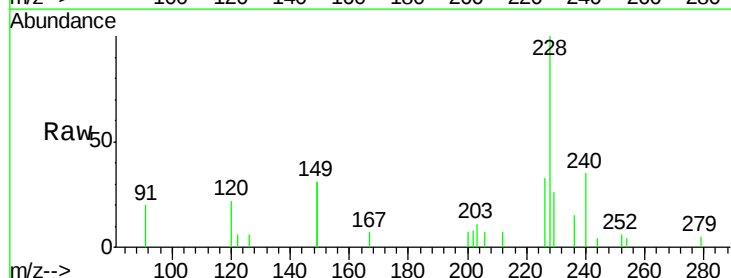
Tgt Ion:228 Resp: 3774

Ion Ratio Lower Upper

228 100

226 33.1 21.0 31.6#

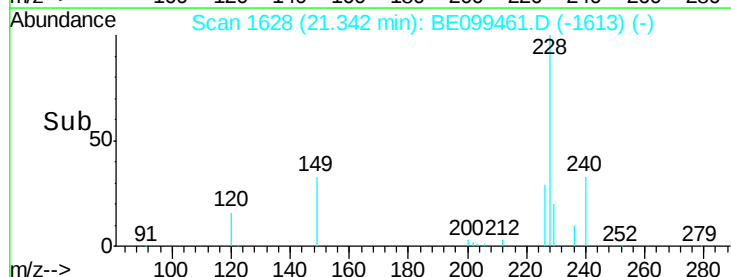
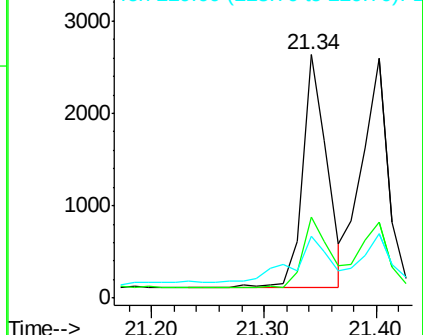
229 25.6 16.6 25.0#

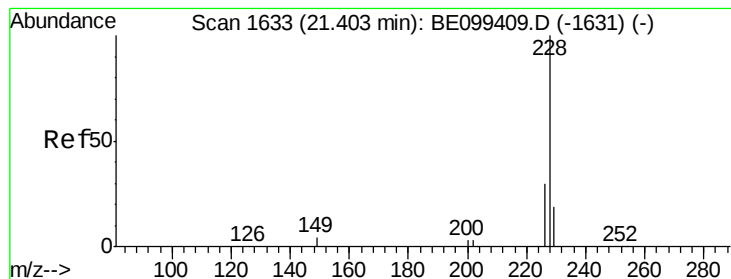


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.052 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

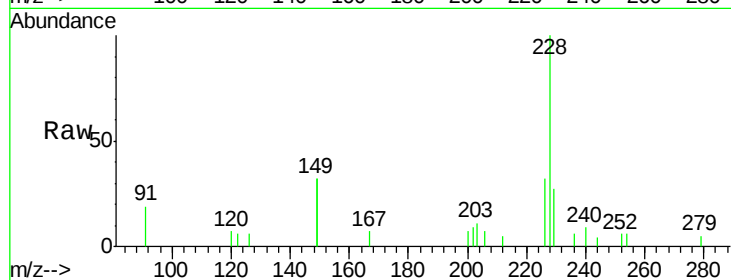
Tot Ion:228 Resp: 3904

Ion Ratio Lower Upper

228 100

226 31.6 24.0 36.0

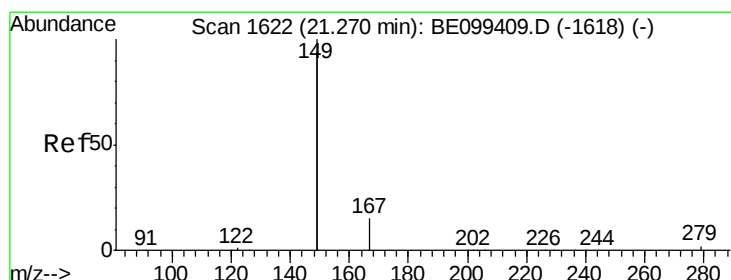
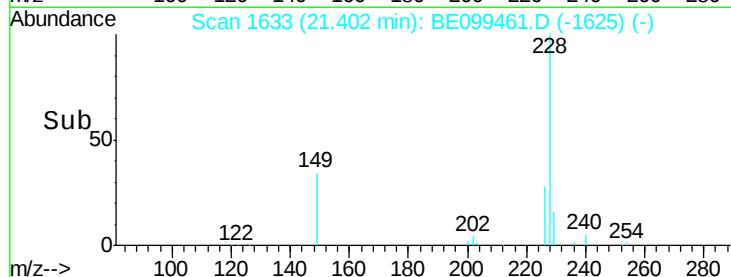
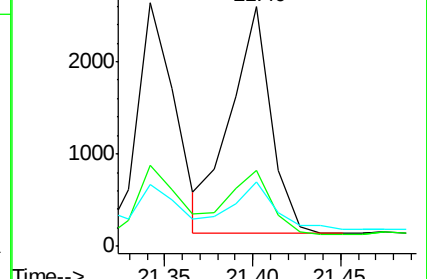
229 27.1 15.8 23.8#



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: 0.071 ng

RT: 21.26 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

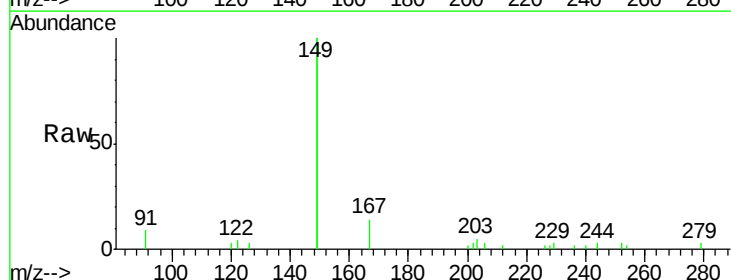
Tgt Ion:149 Resp: 15388

Ion Ratio Lower Upper

149 100

167 7.8 5.8 8.6

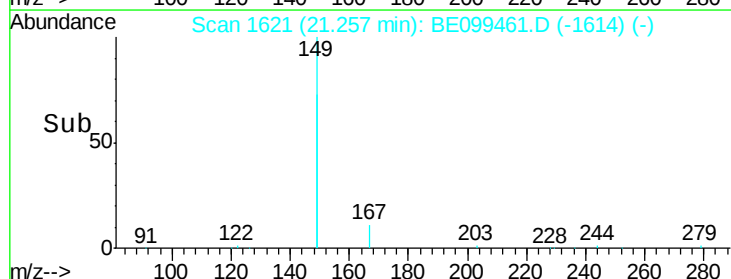
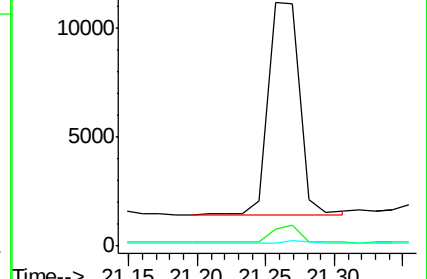
279 2.1 1.0 1.6#

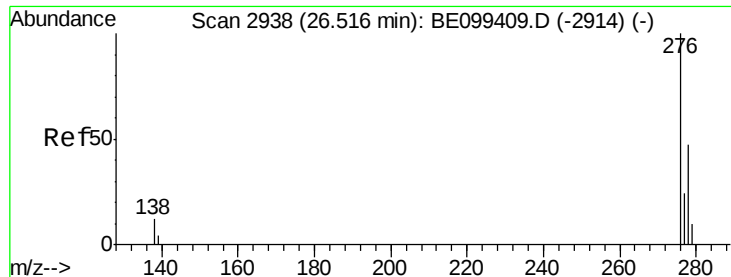


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.024 ng

RT: 26.50 min Scan# 2933

Delta R.T. -0.02 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

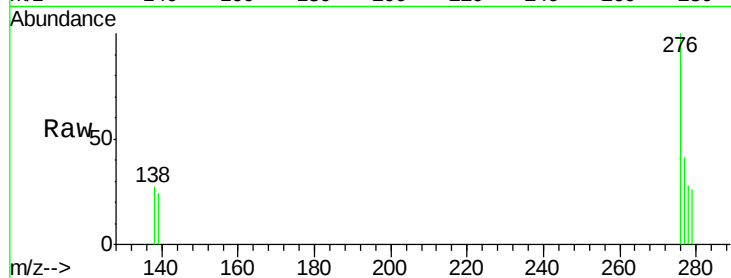
Tot Ion:276 Resp: 2125

Ion Ratio Lower Upper

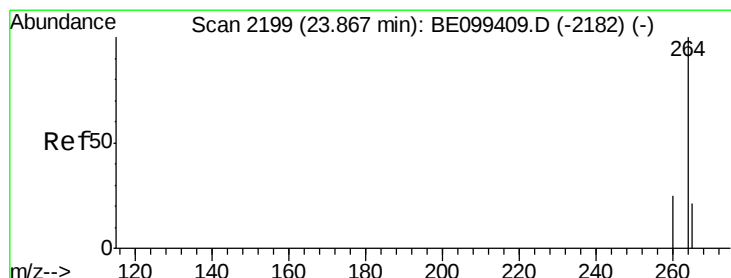
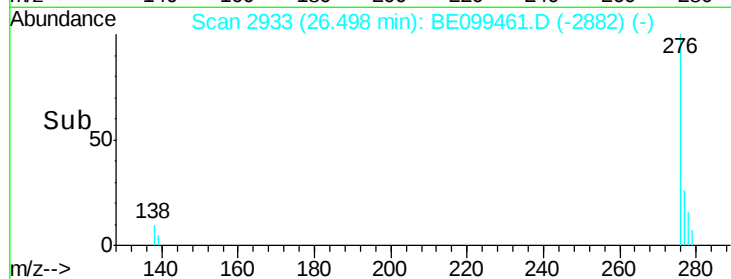
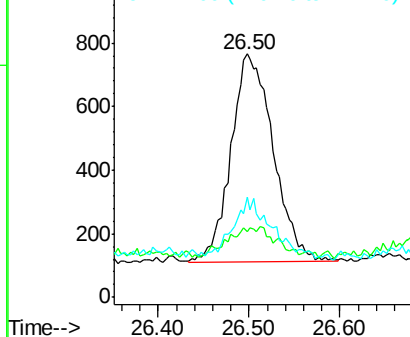
276 100

138 6.9 10.2 15.2#

277 27.0 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: 23.86 min Scan# 2198

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

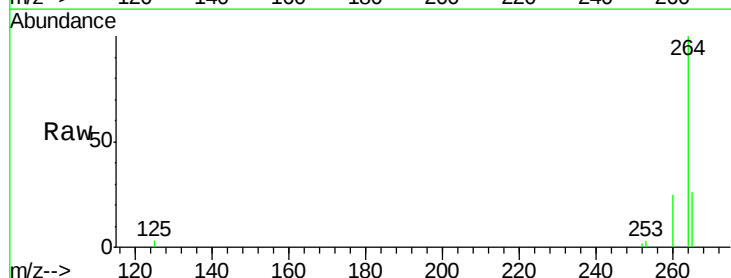
Tgt Ion:264 Resp: 27666

Ion Ratio Lower Upper

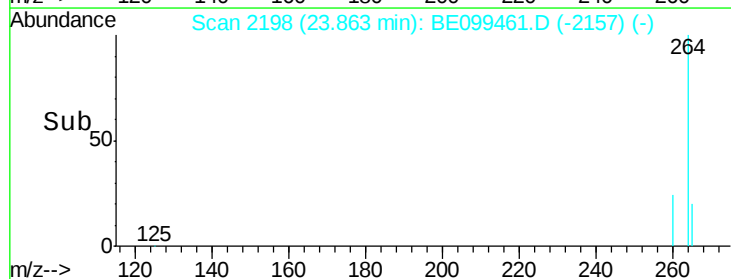
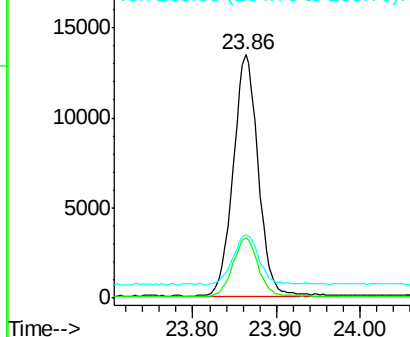
264 100

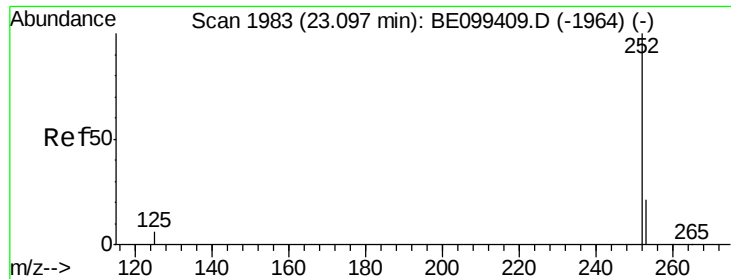
260 25.1 20.2 30.2

265 26.0 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: 0.061 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.00 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

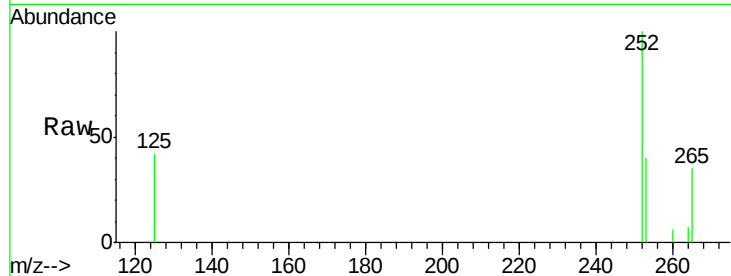
Tot Ion:252 Resp: 4893

Ion Ratio Lower Upper

252 100

253 40.2 18.1 27.1#

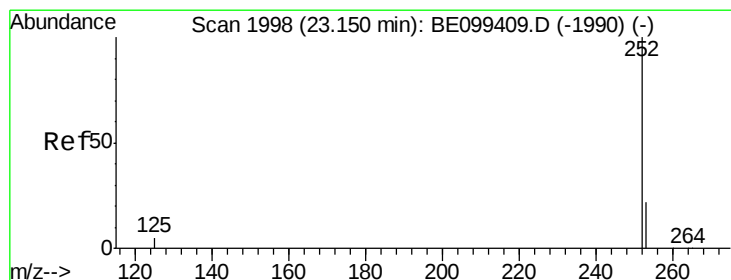
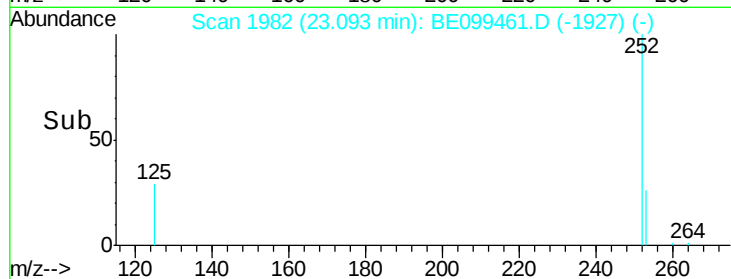
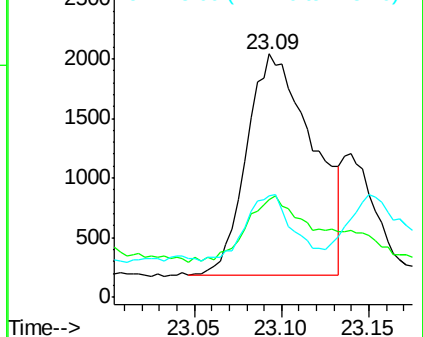
125 41.5 5.6 8.4#



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: 0.064 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.06 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

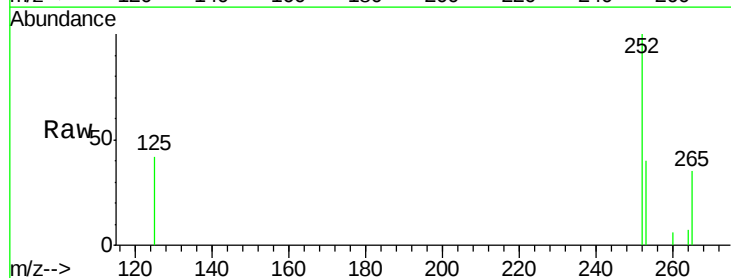
Tgt Ion:252 Resp: 4893

Ion Ratio Lower Upper

252 100

253 40.2 18.4 27.6#

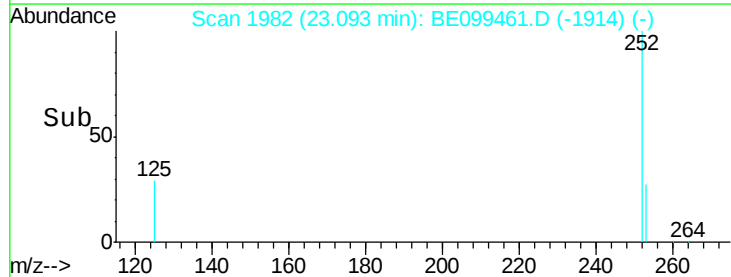
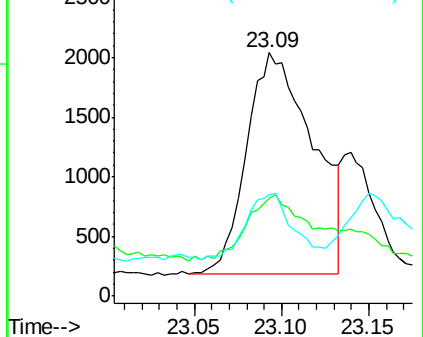
125 41.5 5.0 7.4#

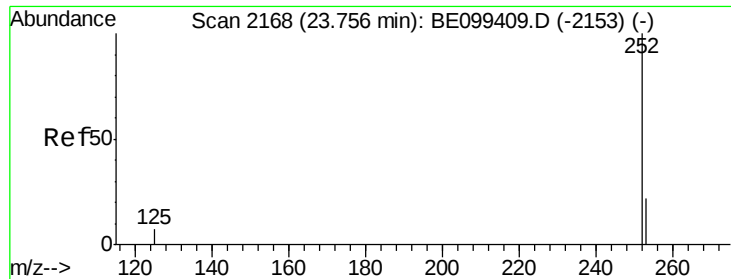


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.042 ng

RT: 23.75 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

Instrument :

BNA_E

ClientSampleId :

PST-001-B197-042519

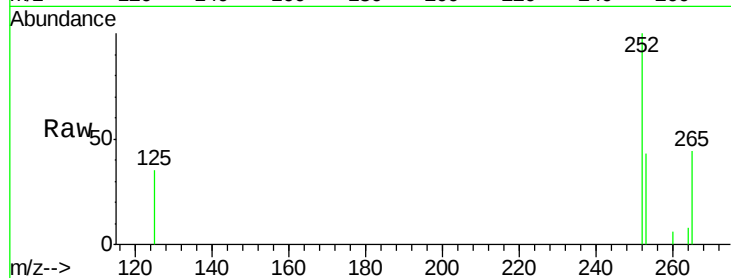
Tot Ion:252 Resp: 3165

Ion Ratio Lower Upper

252 100

253 42.5 18.9 28.3#

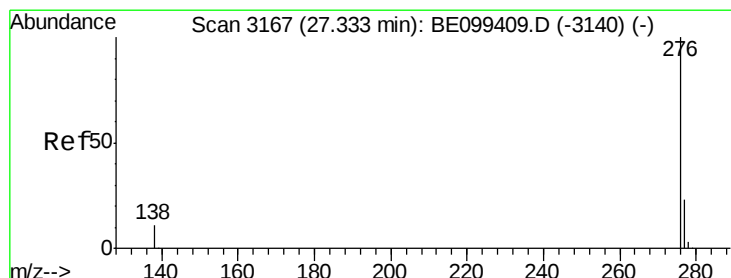
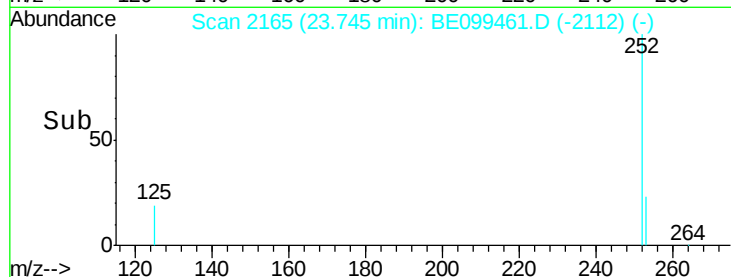
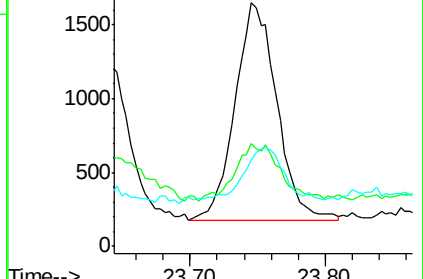
125 35.4 6.7 10.1#



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: 0.027 ng

RT: 27.32 min Scan# 3164

Delta R.T. -0.01 min

Lab File: BE099461.D

Acq: 1 May 2019 13:16

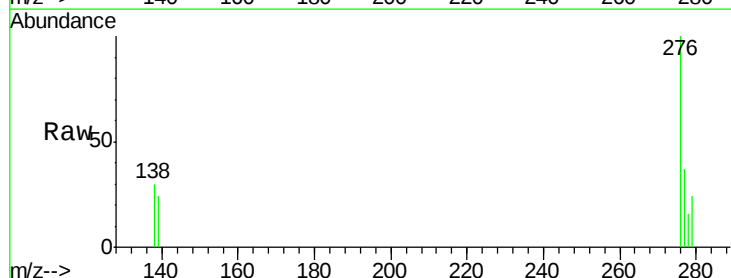
Tgt Ion:276 Resp: 2123

Ion Ratio Lower Upper

276 100

277 36.9 19.5 29.3#

138 29.9 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

