

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099501.D
 Acq On : 2 May 2019 19:56
 Operator : JU/SJ
 Sample : K2589-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B195-042519

Quant Time: May 03 02:10:55 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	7.81	152	2343	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	7897	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5882	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	19143	0.40	ng	0.00
27) Chrysene-d12	21.37	240	26604	0.40	ng	0.00
34) Perylene-d12	23.87	264	30214	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2697	0.42	ng	0.00
5) Phenol-d6	6.97	99	3894	0.45	ng	0.00
8) Nitrobenzene-d5	8.96	82	3138	0.42	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	5450	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1839	0.50	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	8362	0.37	ng	-0.02
25) Fluoranthene-d10	19.22	212	101142	0.39	ng	0.00
29) Terphenyl-d14	19.82	244	20646	0.42	ng	0.00

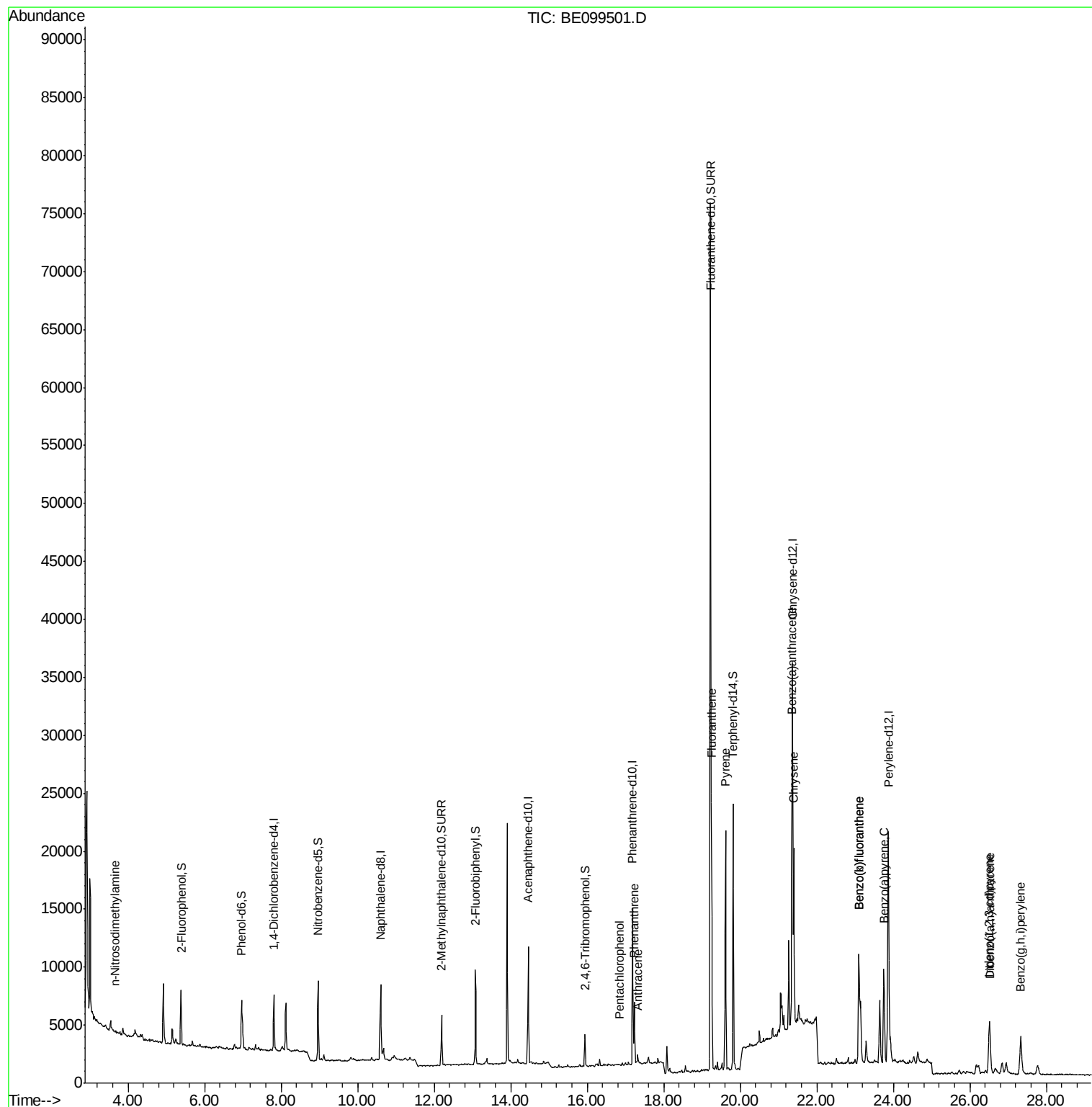
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.65	42	54	0.028	ng	# 1
22) Pentachlorophenol	16.84	266	49	0.224	ng	# 61
23) Phenanthrene	17.23	178	5449	0.110	ng	98
24) Anthracene	17.32	178	945	0.020	ng	96
26) Fluoranthene	19.25	202	20484	0.277	ng	100
28) Pyrene	19.61	202	19772	0.285	ng	96
30) Benzo(a)anthracene	21.35	228	14023	0.165	ng	94
31) Chrysene	21.40	228	12866	0.155	ng	96
33) Indeno(1,2,3-cd)pyrene	26.51	276	8845	0.090	ng	99
35) Benzo(b)fluoranthene	23.10	252	18392	0.211	ng	# 89
36) Benzo(k)fluoranthene	23.10	252	18392	0.219	ng	# 89
37) Benzo(a)pyrene	23.75	252	12871	0.156	ng	# 92
38) Dibenzo(a,h)anthracene	26.53	278	2345	0.028	ng	# 58
39) Benzo(g,h,i)perylene	27.33	276	8149	0.097	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: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

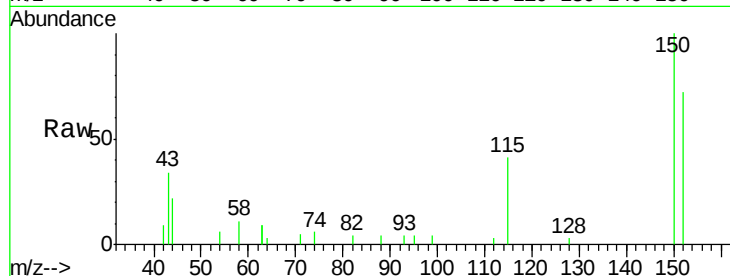
Tot Ion:152 Resp: 2343

Ion Ratio Lower Upper

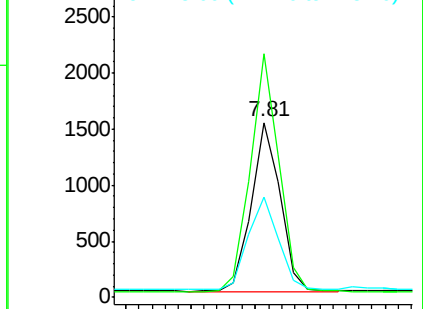
152 100

150 139.4 104.8 157.2

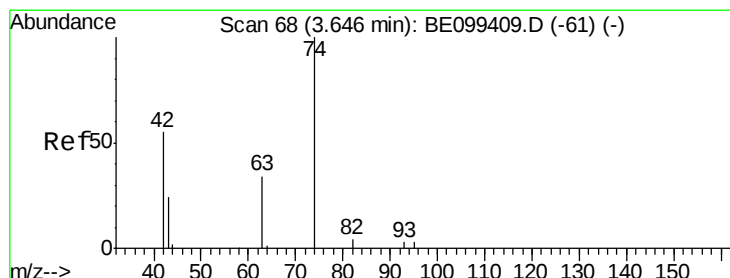
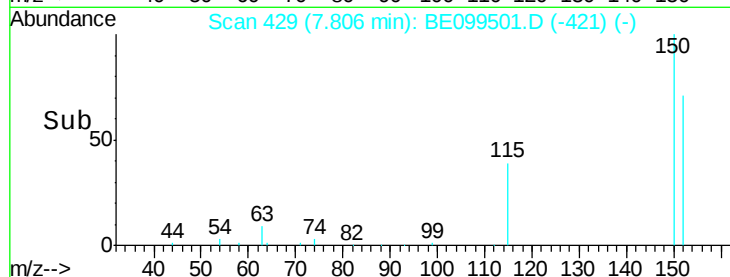
115 57.7 46.6 69.8



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



Time--> 7.70 7.75 7.80 7.85 7.90



#3

n-Nitrosodimethylamine

Concen: 0.028 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

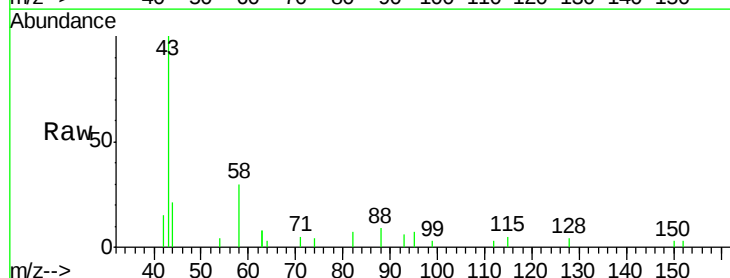
Tgt Ion: 42 Resp: 54

Ion Ratio Lower Upper

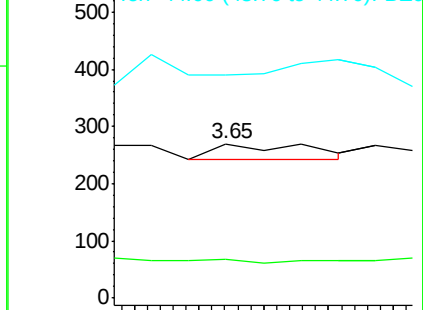
42 100

74 0.0 141.6 212.4#

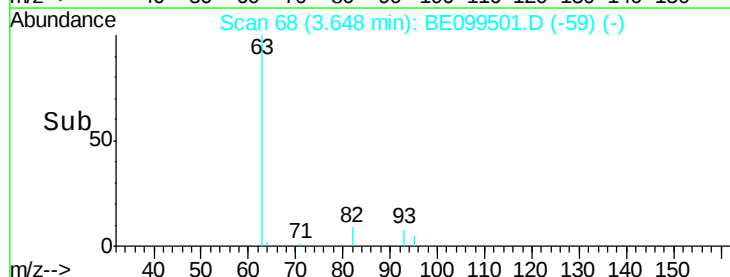
44 0.0 0.0 0.0

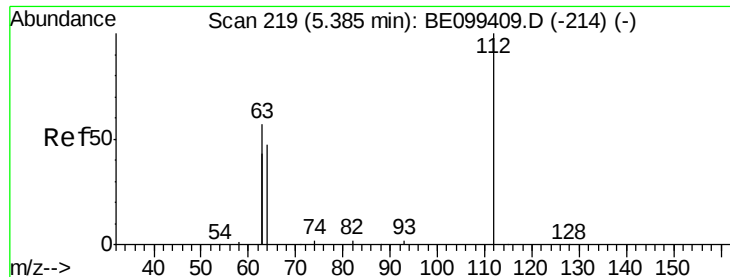


Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



Time--> 3.62 3.64 3.66 3.68





#4

2-Fluorophenol

Concen: 0.416 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

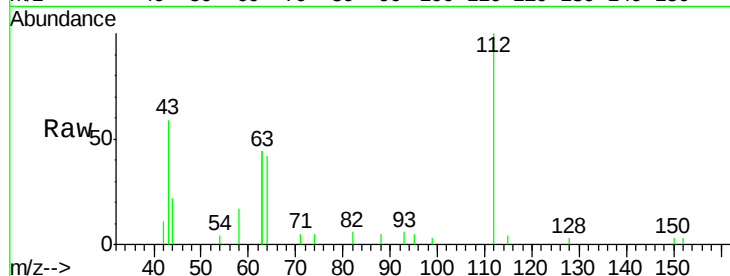
Tot Ion:112 Resp: 2697

Ion Ratio Lower Upper

112 100

64 58.2 47.4 71.0

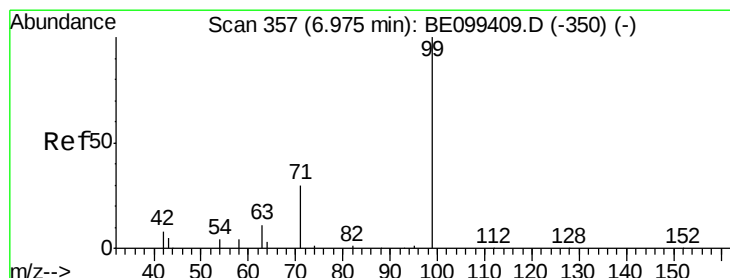
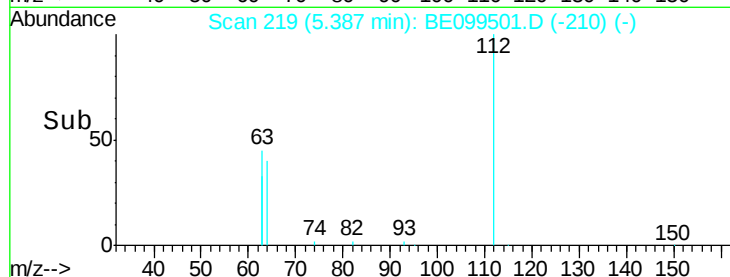
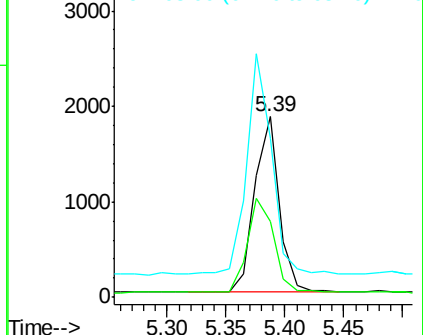
63 126.8 104.3 156.5



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: 0.452 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

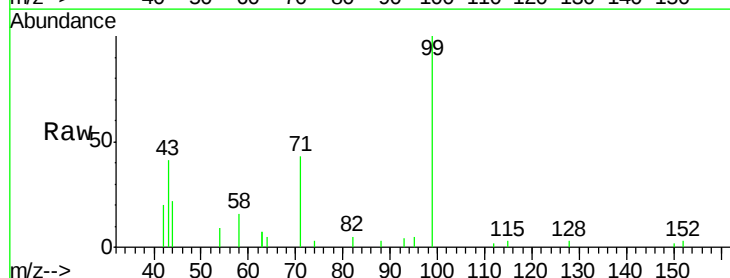
Tgt Ion: 99 Resp: 3894

Ion Ratio Lower Upper

99 100

42 15.7 14.9 22.3

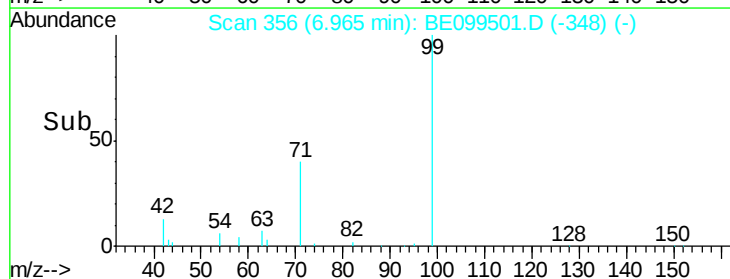
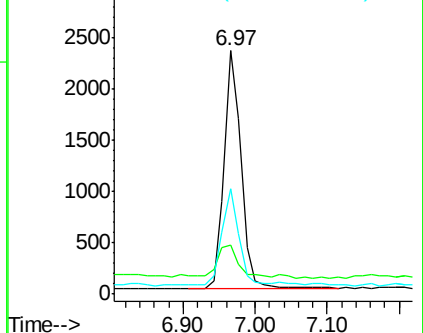
71 38.6 33.0 49.6

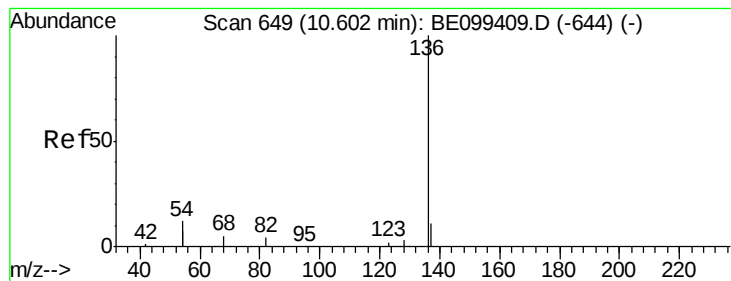


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

Tot Ion:136 Resp: 7897

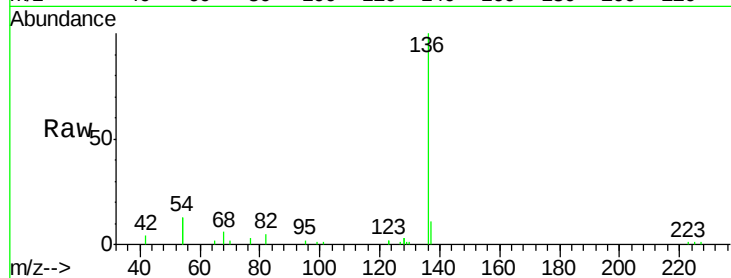
Ion Ratio Lower Upper

136 100

137 11.1 9.8 14.8

54 25.1 18.5 27.7

68 6.4 4.7 7.1

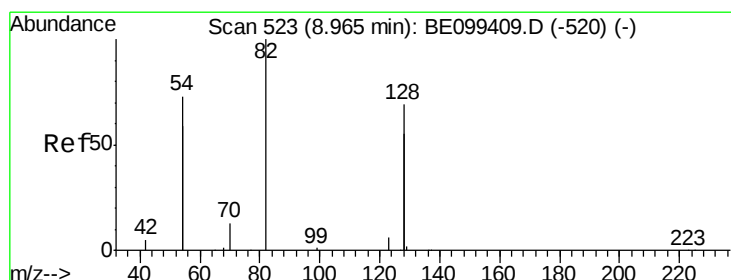
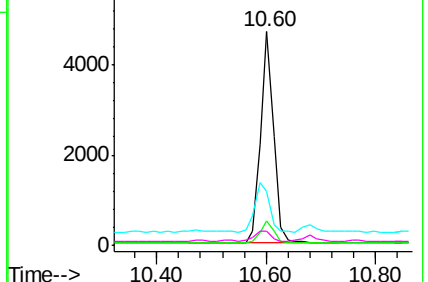
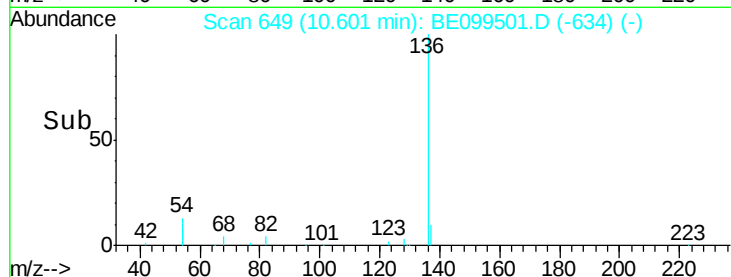


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.424 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

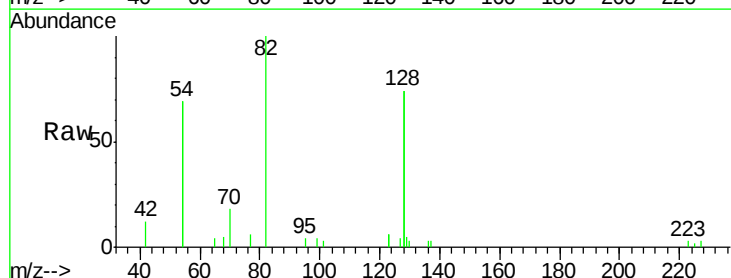
Tgt Ion: 82 Resp: 3138

Ion Ratio Lower Upper

82 100

128 148.3 107.0 160.4

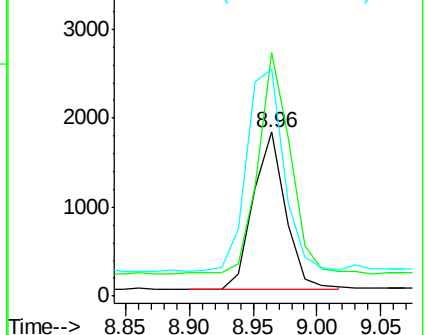
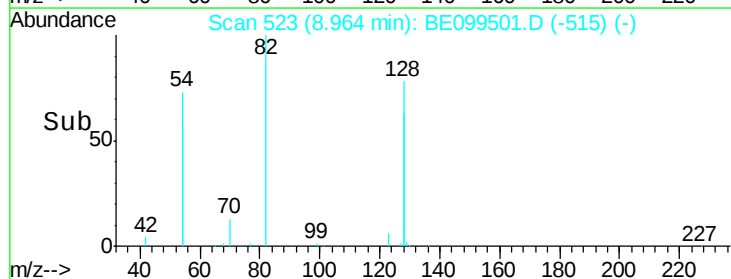
54 138.6 113.1 169.7

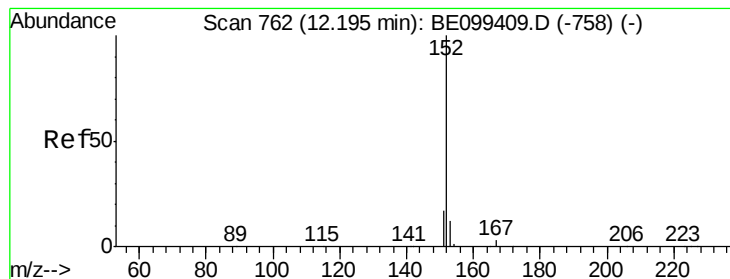


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.383 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

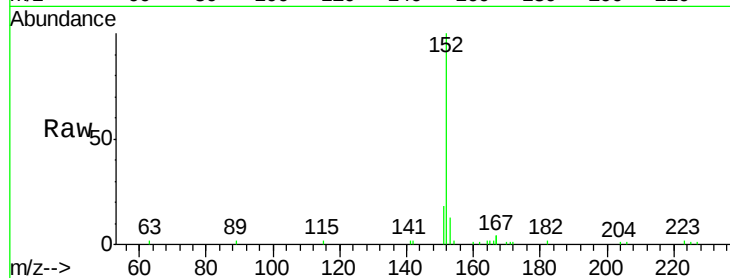
PST-001-B195-042519

Tot Ion:152 Resp: 5450

Ion Ratio Lower Upper

152 100

151 18.7 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.19

4000

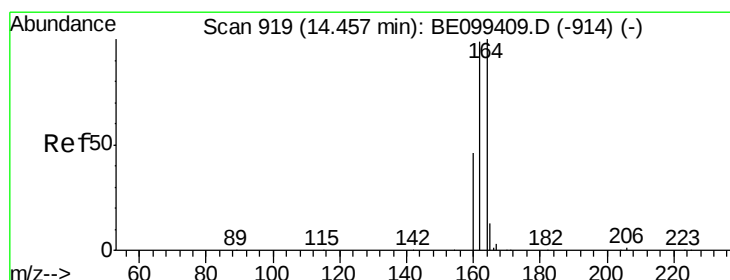
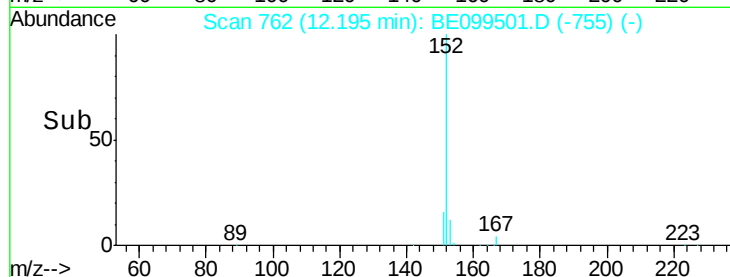
3000

2000

1000

0

Time--> 12.10 12.20 12.30



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

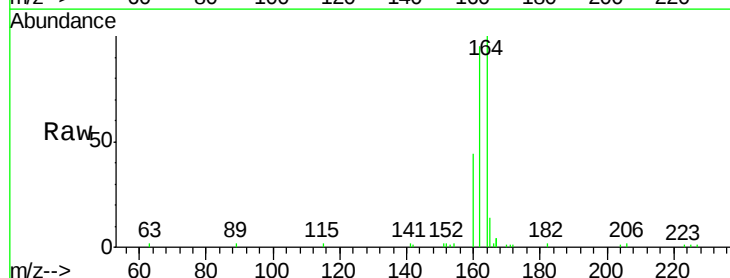
Tgt Ion:164 Resp: 5882

Ion Ratio Lower Upper

164 100

162 94.8 79.0 118.4

160 43.6 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

14.46

5000

4000

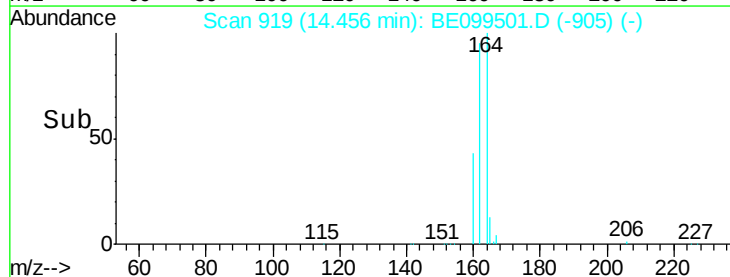
3000

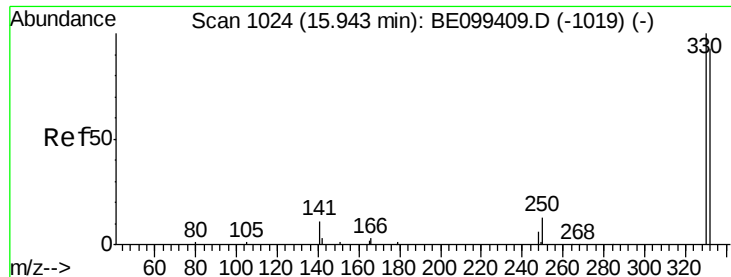
2000

1000

0

Time--> 14.40 14.50 14.60

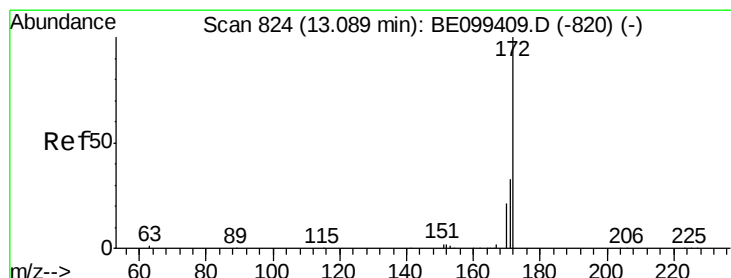
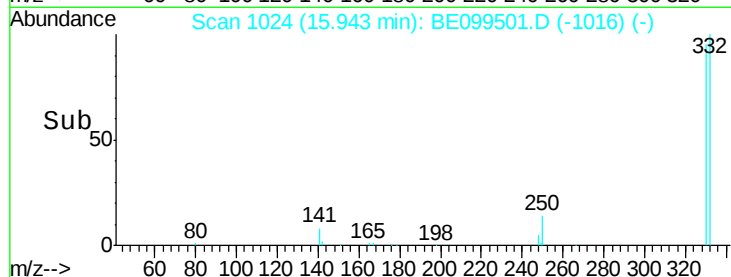
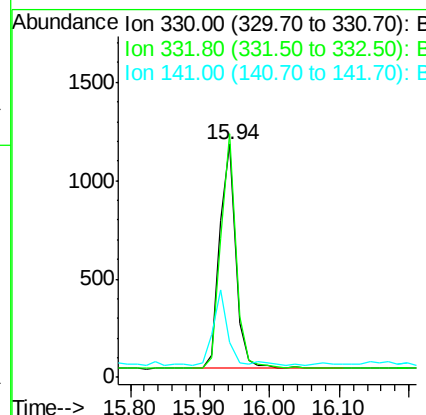
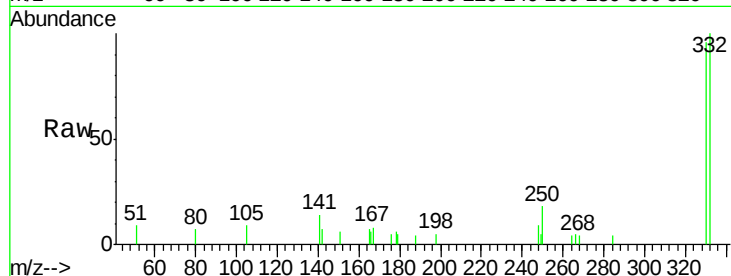




#14
 2,4,6-Tribromophenol
 Concen: 0.496 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BE099501.D
 Acq: 2 May 2019 19:56

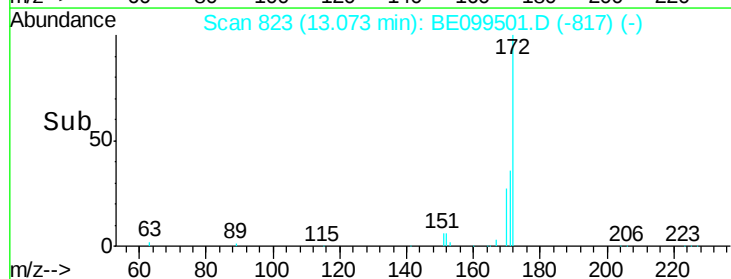
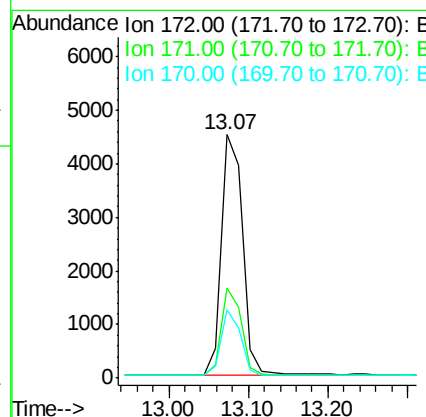
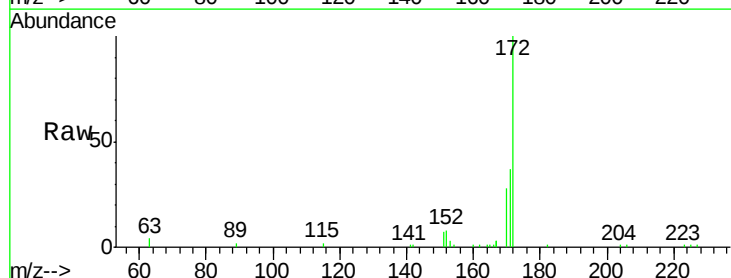
Instrument :
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 PST-001-B195-042519

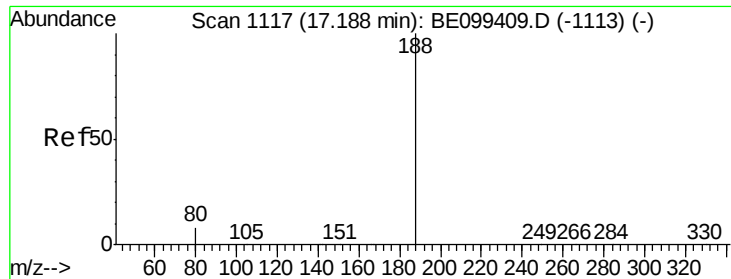
Tot Ion:330 Resp: 1839
 Ion Ratio Lower Upper
 330 100
 332 99.7 71.5 107.3
 141 28.9 24.0 36.0



#15
 2-Fluorobiphenyl
 Concen: 0.373 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.02 min
 Lab File: BE099501.D
 Acq: 2 May 2019 19:56

Tgt Ion:172 Resp: 8362
 Ion Ratio Lower Upper
 172 100
 171 37.1 26.6 39.8
 170 27.9 17.0 25.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

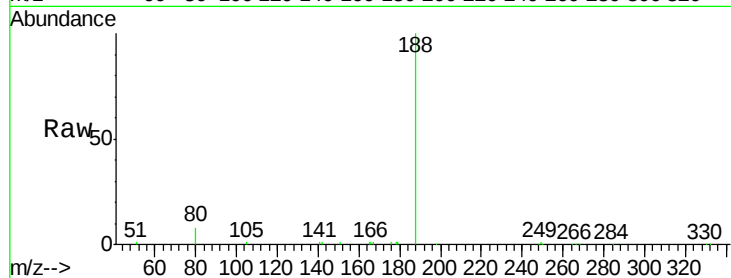
Tot Ion:188 Resp: 19143

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

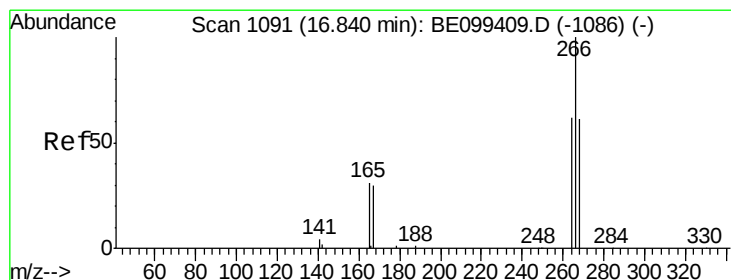
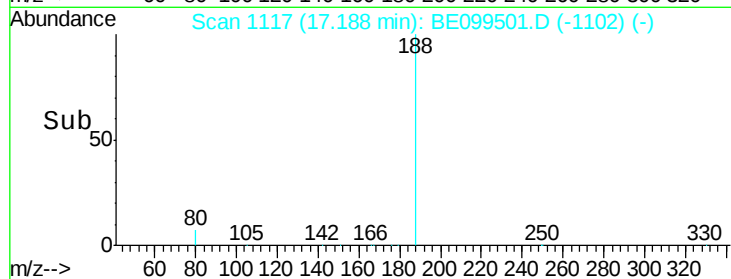
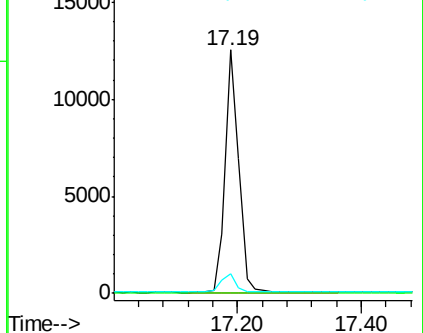
80 7.8 6.7 10.1



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



#22

Pentachlorophenol

Concen: 0.224 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

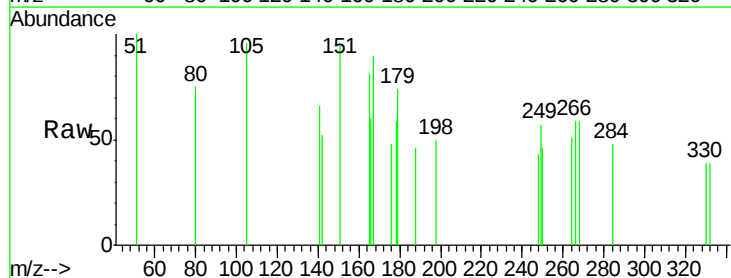
Tgt Ion:266 Resp: 49

Ion Ratio Lower Upper

266 100

264 86.6 50.8 76.2#

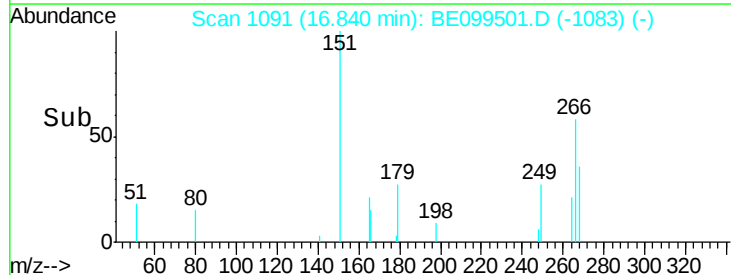
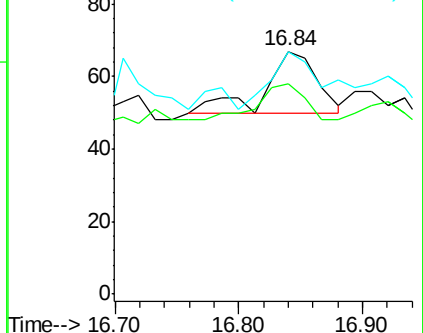
268 100.0 50.5 75.7#

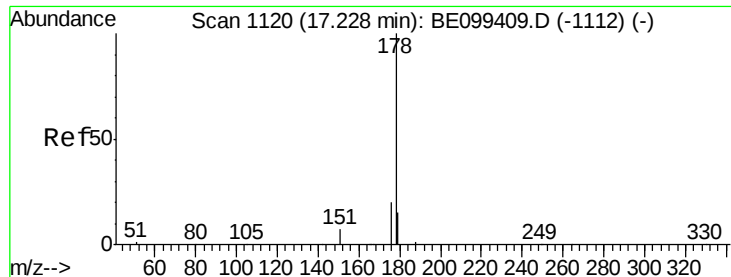


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.110 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

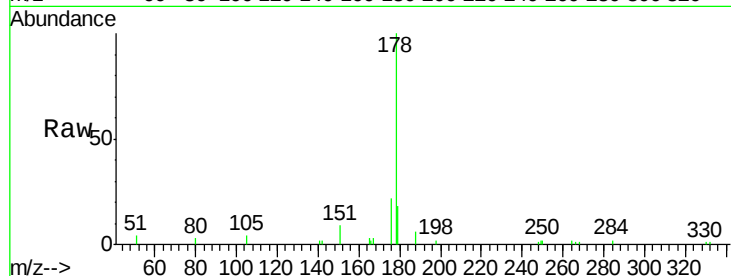
Tot Ion:178 Resp: 5449

Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

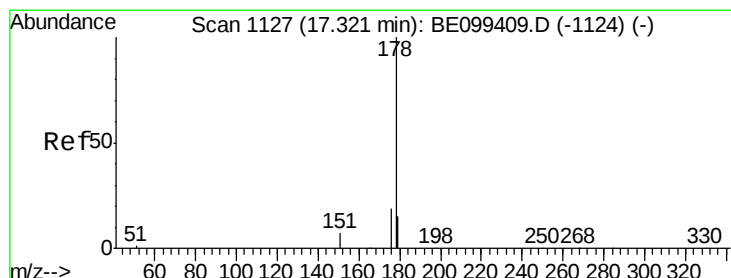
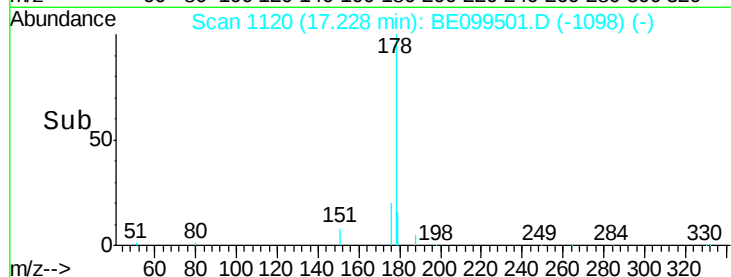
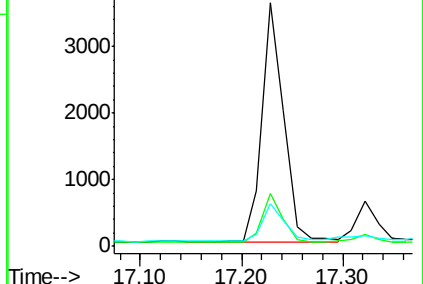
179 16.2 12.0 18.0



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: 0.020 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

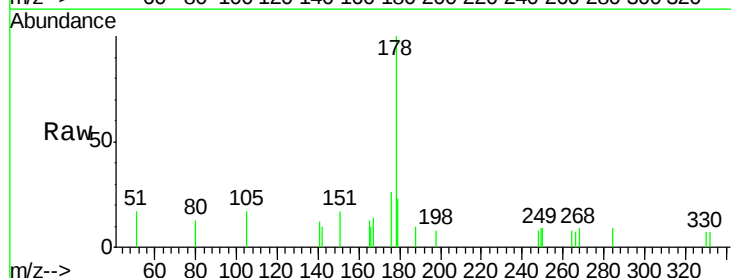
Tgt Ion:178 Resp: 945

Ion Ratio Lower Upper

178 100

176 16.9 14.9 22.3

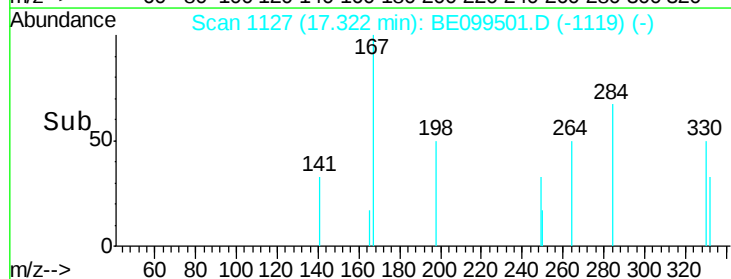
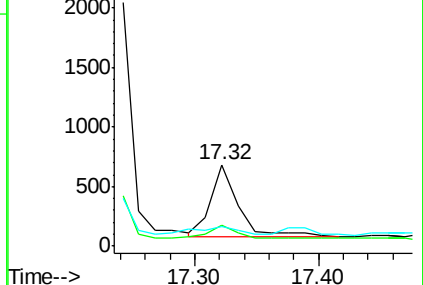
179 16.7 11.9 17.9

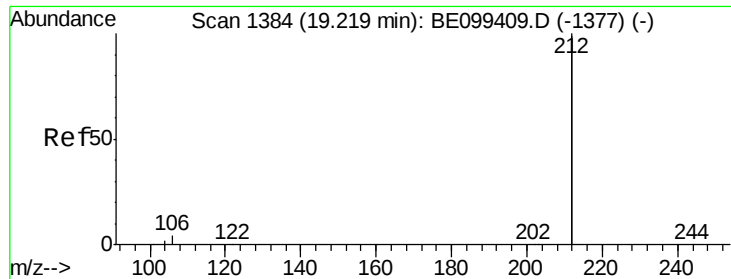


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.392 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

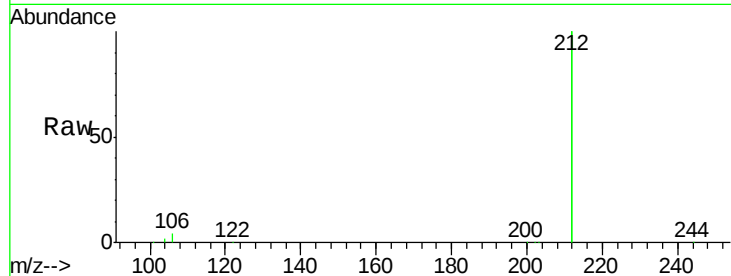
Tot Ion:212 Resp: 101142

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

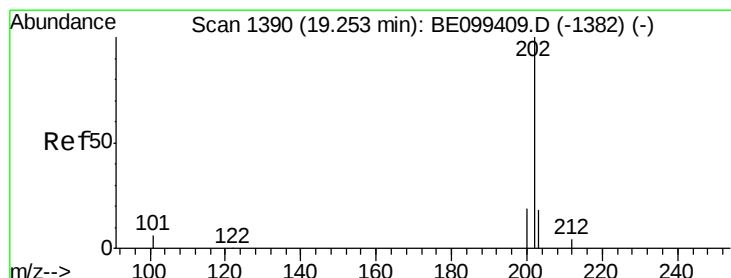
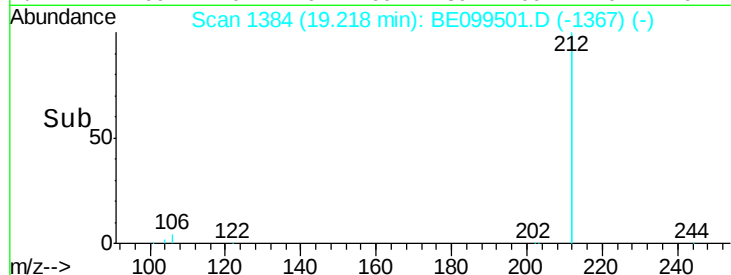
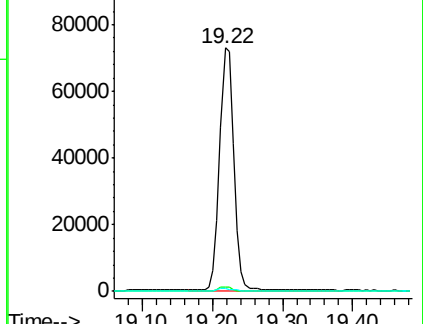
104 1.2 0.9 1.3



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: 0.277 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

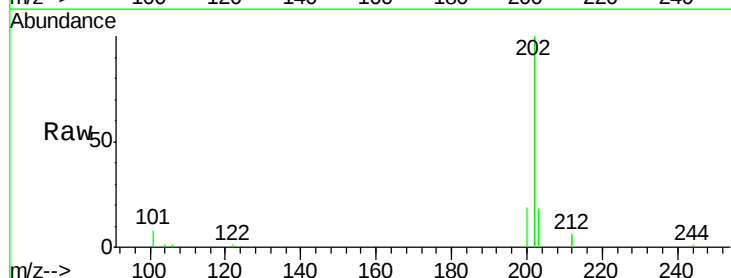
Tgt Ion:202 Resp: 20484

Ion Ratio Lower Upper

202 100

101 7.1 5.4 8.0

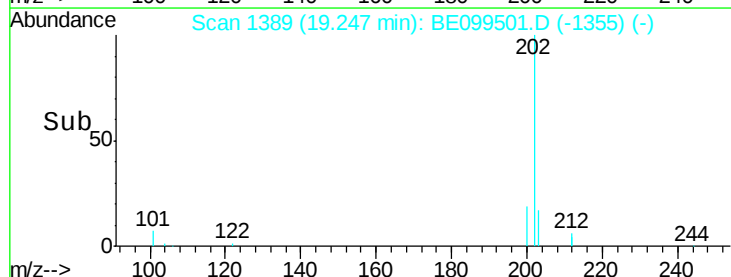
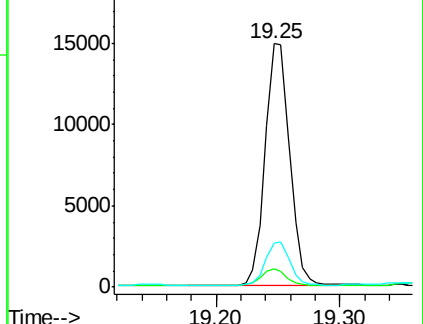
203 17.5 13.9 20.9

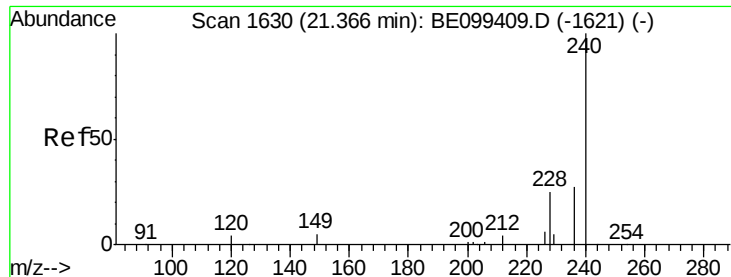


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

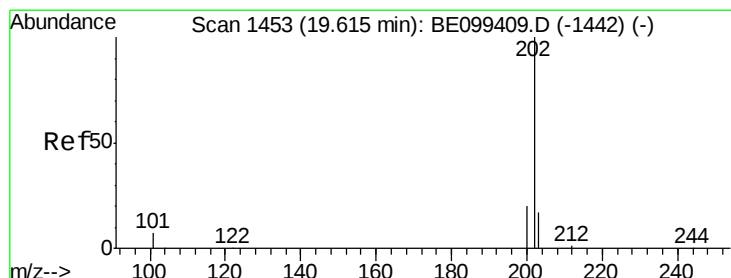
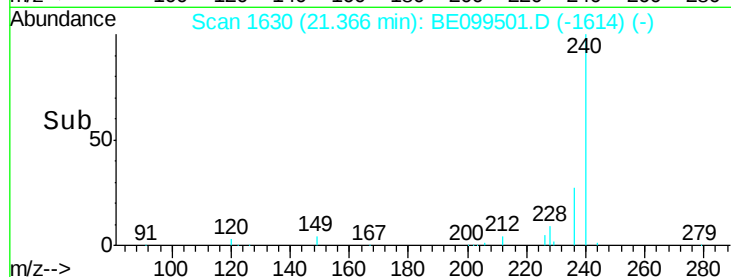
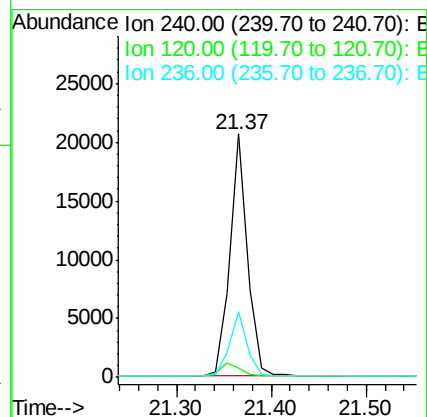
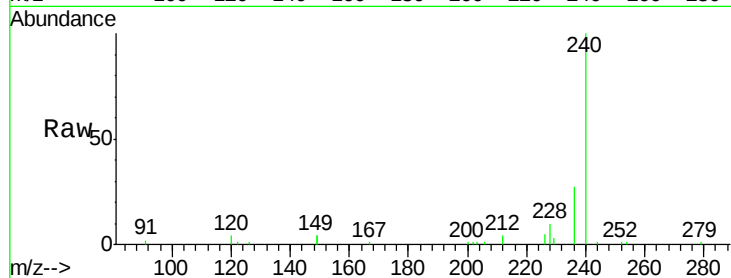




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: BE099501.D
 Acq: 2 May 2019 19:56

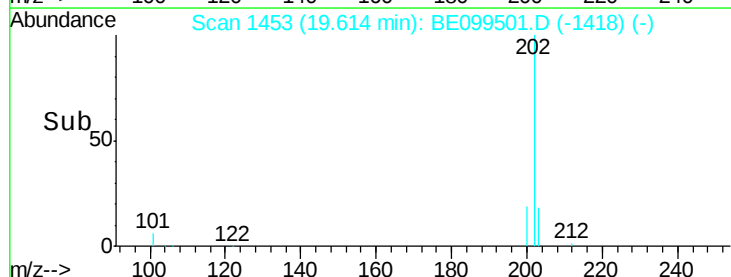
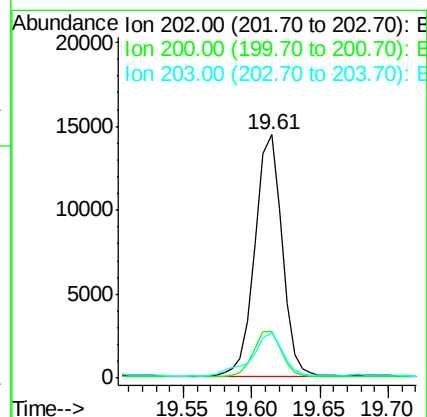
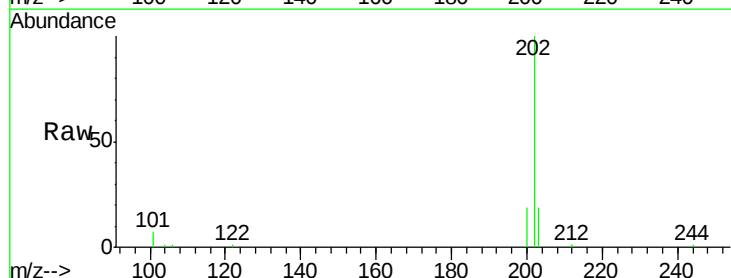
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B195-042519

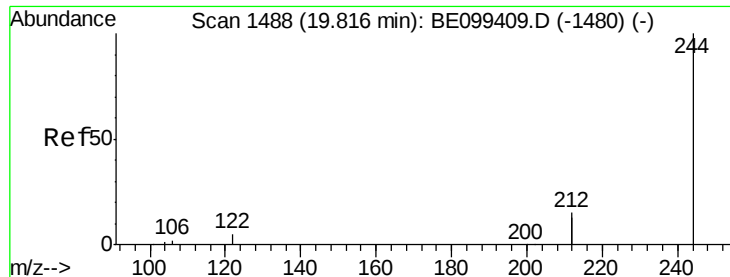
Tot Ion:240 Resp: 26604
 Ion Ratio Lower Upper
 240 100
 120 3.9 4.0 6.0#
 236 27.1 22.0 33.0



#28
 Pyrene
 Concen: 0.285 ng
 RT: 19.61 min Scan# 1453
 Delta R.T. -0.00 min
 Lab File: BE099501.D
 Acq: 2 May 2019 19:56

Tgt Ion:202 Resp: 19772
 Ion Ratio Lower Upper
 202 100
 200 20.0 15.7 23.5
 203 20.8 13.9 20.9





#29

Terphenyl-d14

Concen: 0.424 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

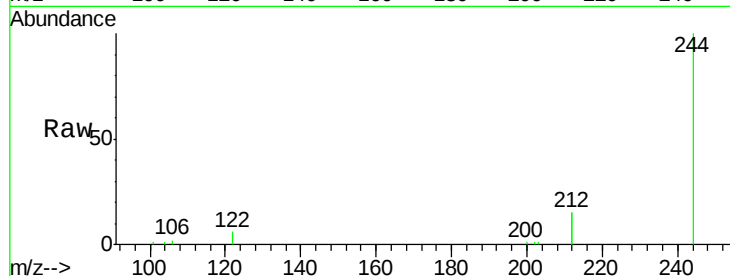
Tot Ion:244 Resp: 20646

Ion Ratio Lower Upper

244 100

212 29.7 23.2 34.8

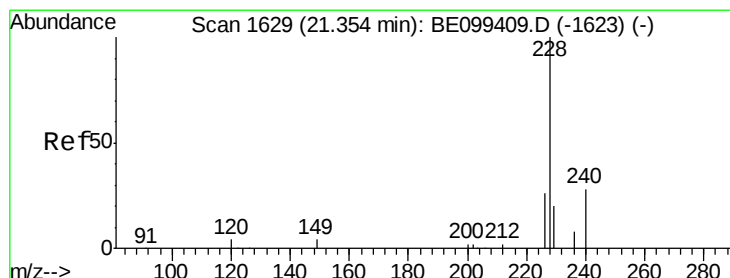
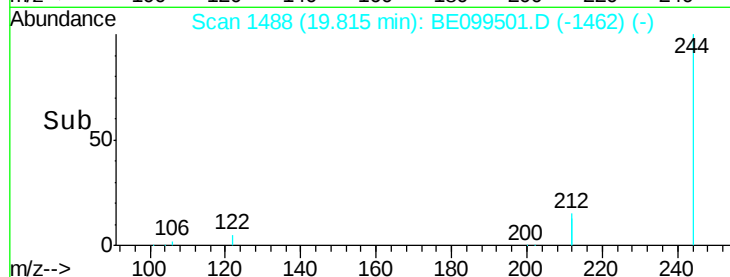
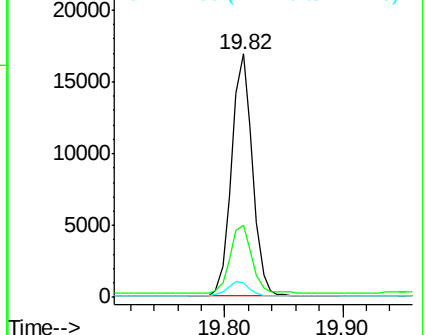
122 5.7 4.2 6.4



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: 0.165 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

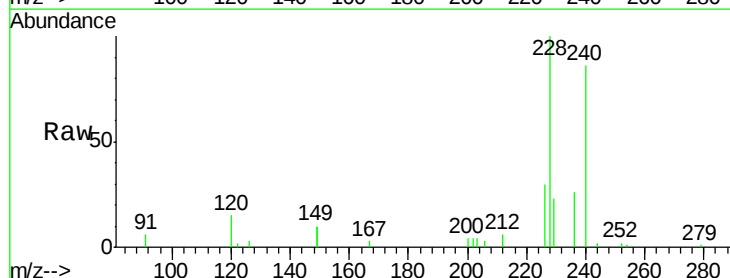
Tgt Ion:228 Resp: 14023

Ion Ratio Lower Upper

228 100

226 29.8 21.0 31.6

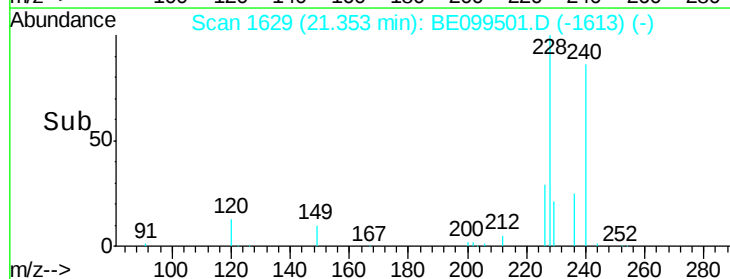
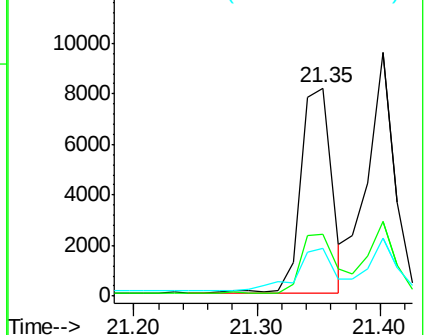
229 23.2 16.6 25.0

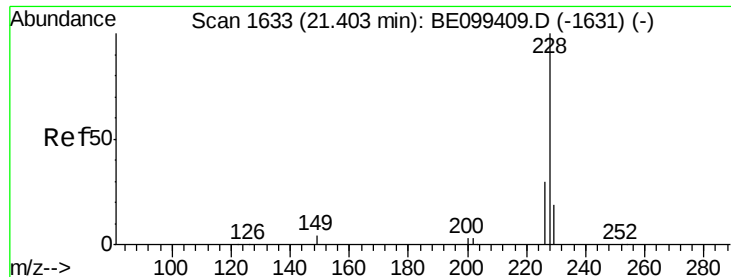


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.155 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

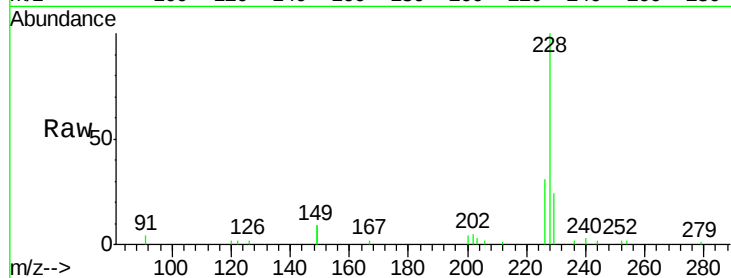
Tot Ion:228 Resp: 12866

Ion Ratio Lower Upper

228 100

226 30.8 24.0 36.0

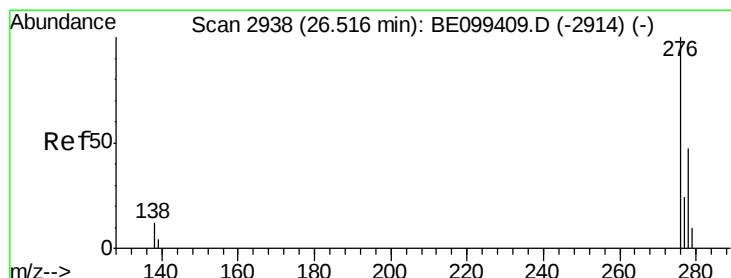
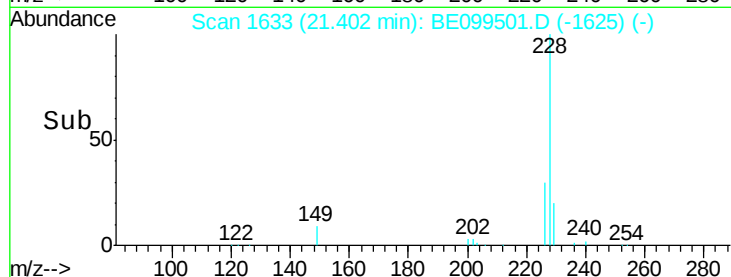
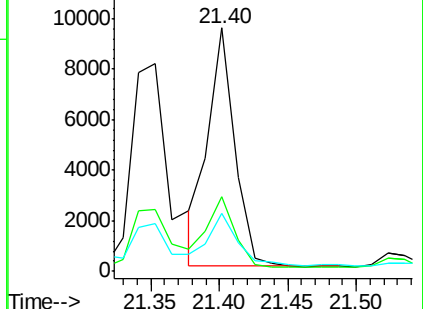
229 23.7 15.8 23.8



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.090 ng

RT: 26.51 min Scan# 2937

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

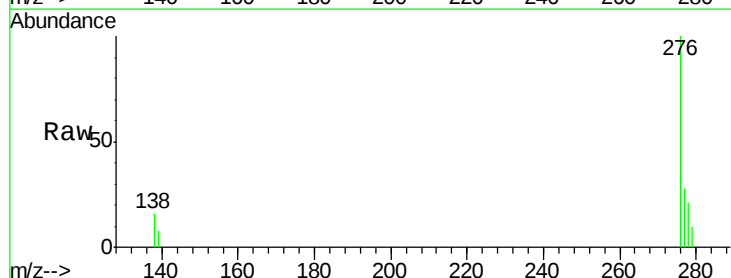
Tgt Ion:276 Resp: 8845

Ion Ratio Lower Upper

276 100

138 12.2 10.2 15.2

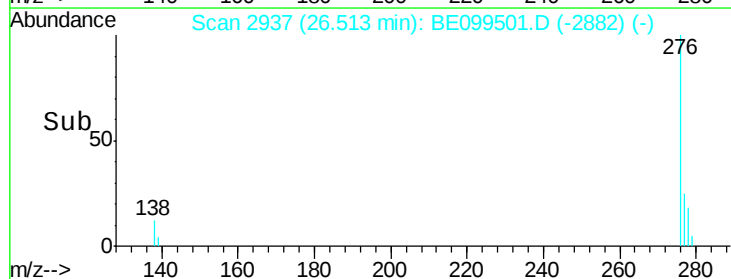
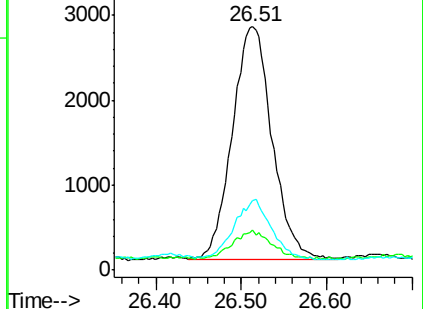
277 23.4 19.2 28.8

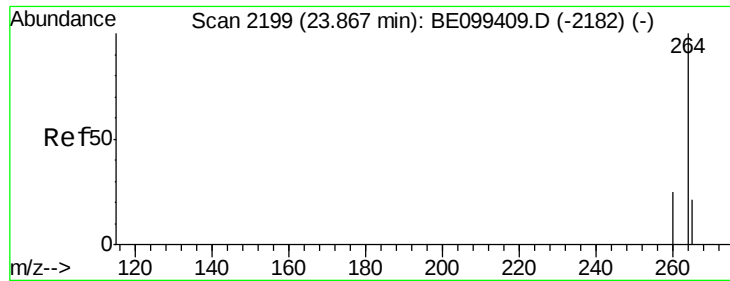


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

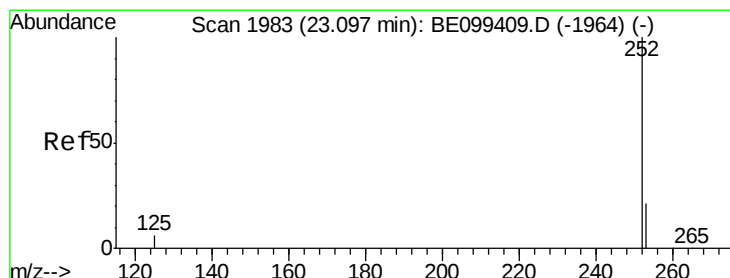
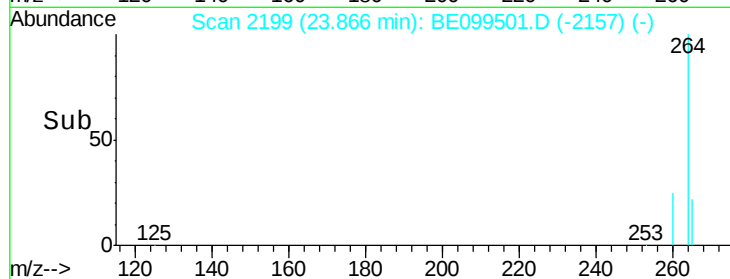
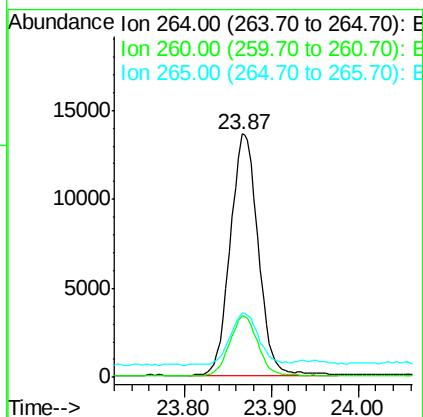
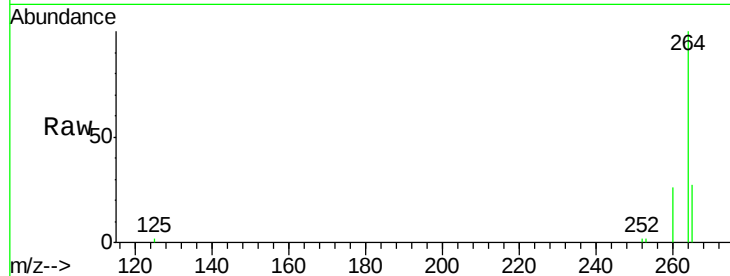




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.87 min Scan# 2199
Delta R.T. -0.00 min
Lab File: BE099501.D
Acq: 2 May 2019 19:56

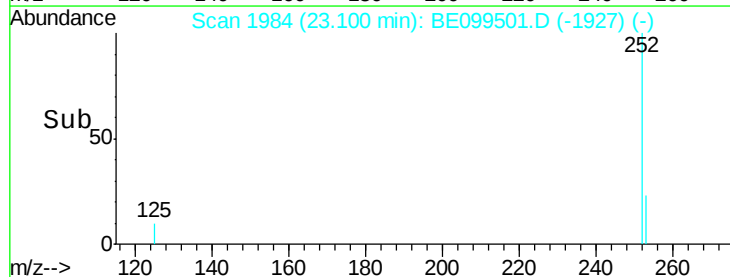
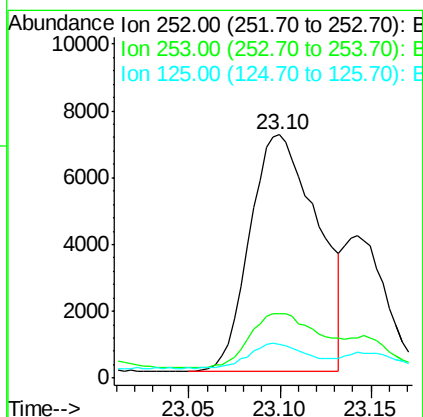
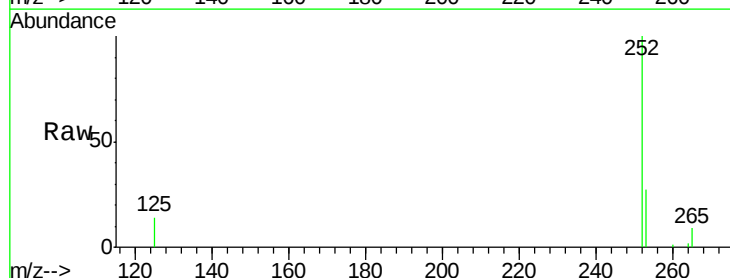
Instrument :
BNA_E
ClientSampleId :
PST-001-B195-042519

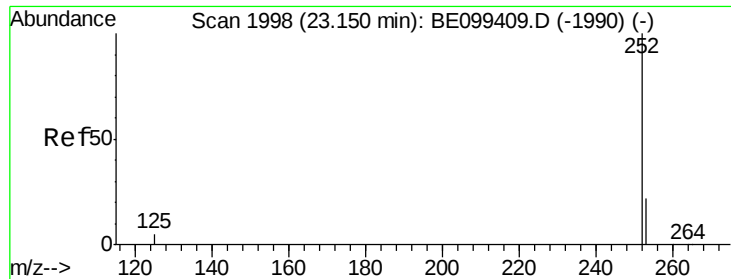
Tot Ion:264 Resp: 30214
Ion Ratio Lower Upper
264 100
260 25.5 20.2 30.2
265 26.5 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.211 ng
RT: 23.10 min Scan# 1984
Delta R.T. 0.00 min
Lab File: BE099501.D
Acq: 2 May 2019 19:56

Tgt Ion:252 Resp: 18392
Ion Ratio Lower Upper
252 100
253 26.6 18.1 27.1
125 13.8 5.6 8.4#

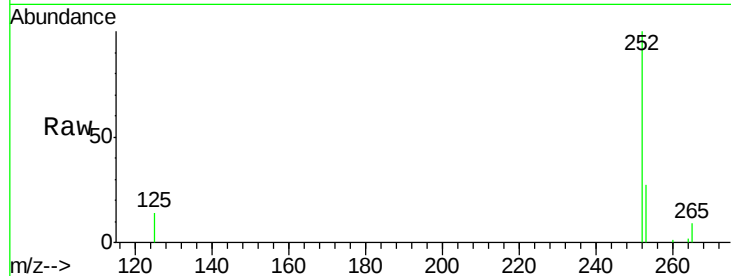




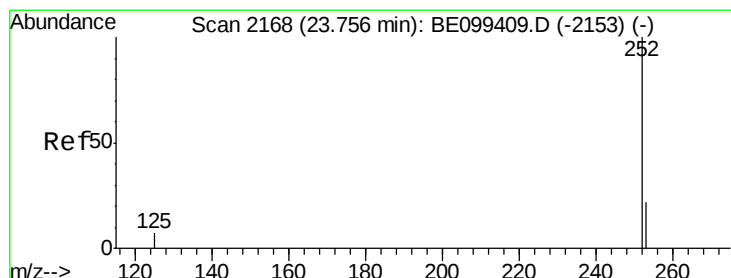
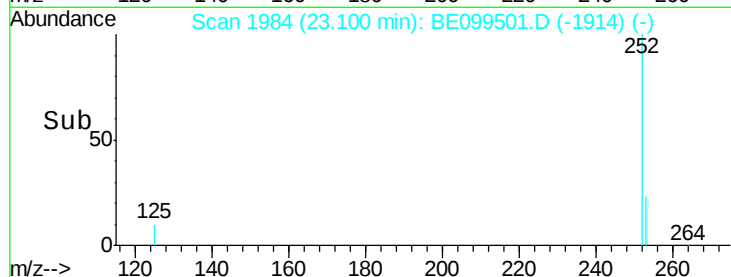
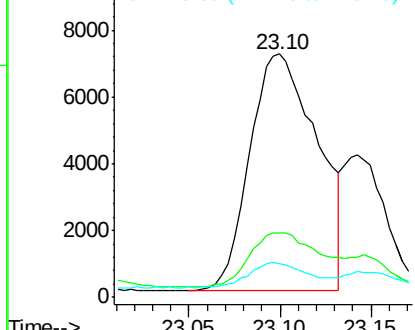
#36
Benzo(k)fluoranthene
Concen: 0.219 ng
RT: 23.10 min Scan# 1984
Delta R.T. -0.05 min
Lab File: BE099501.D
Acq: 2 May 2019 19:56

Instrument :
BNA_E
ClientSampleId :
PST-001-B195-042519

Tot Ion:252 Resp: 18392
Ion Ratio Lower Upper
252 100
253 26.6 18.4 27.6
125 13.8 5.0 7.4#

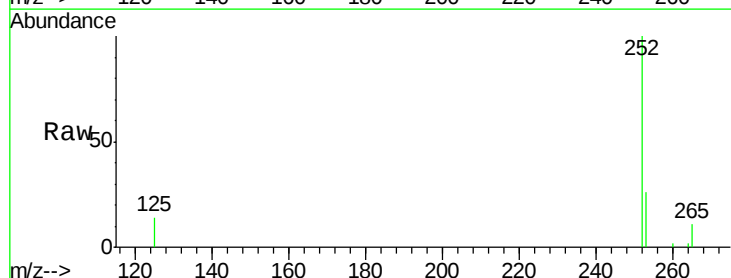


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

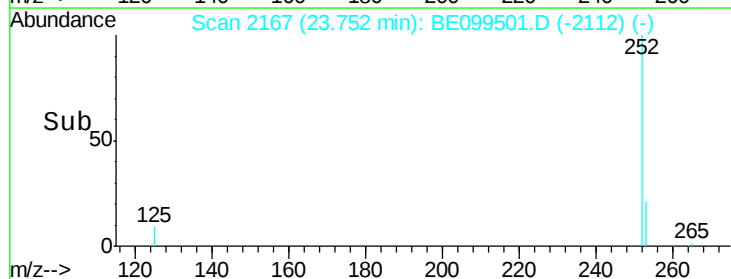
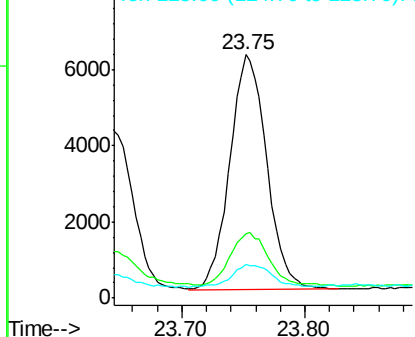


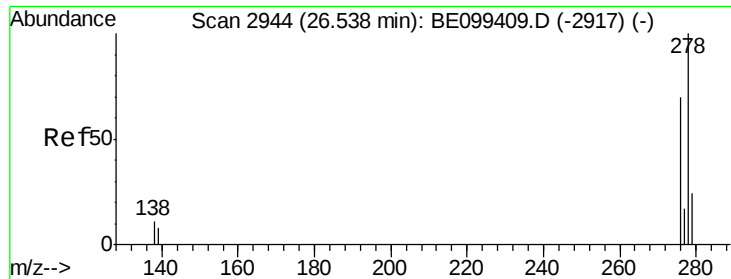
#37
Benzo(a)pyrene
Concen: 0.156 ng
RT: 23.75 min Scan# 2167
Delta R.T. -0.00 min
Lab File: BE099501.D
Acq: 2 May 2019 19:56

Tgt Ion:252 Resp: 12871
Ion Ratio Lower Upper
252 100
253 26.5 18.9 28.3
125 14.0 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: 0.028 ng

RT: 26.53 min Scan# 2941

Delta R.T. -0.01 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

Instrument :

BNA_E

ClientSampleId :

PST-001-B195-042519

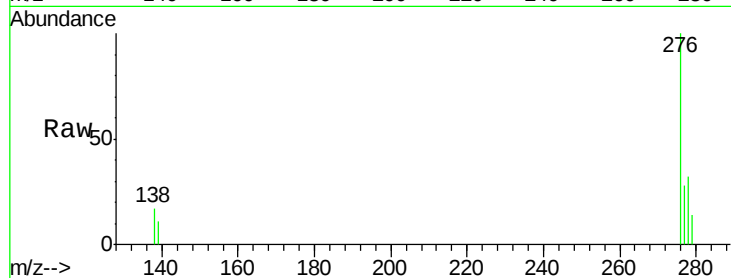
Tot Ion:278 Resp: 2345

Ion Ratio Lower Upper

278 100

139 32.8 7.7 11.5#

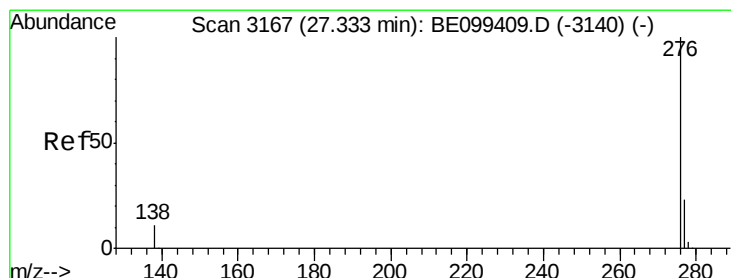
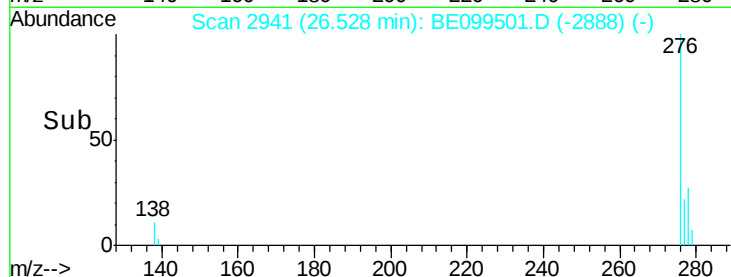
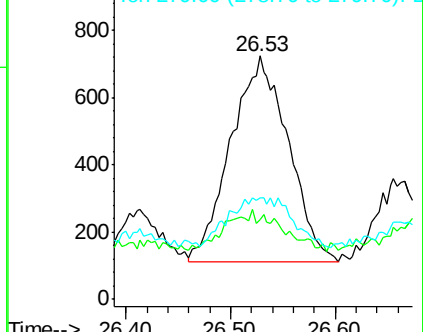
279 41.9 20.2 30.2#



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(g,h,i)perylene

Concen: 0.097 ng

RT: 27.33 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BE099501.D

Acq: 2 May 2019 19:56

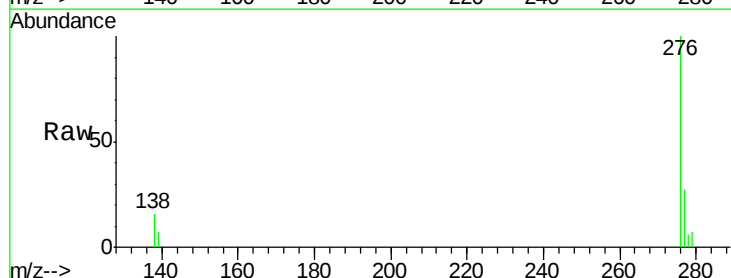
Tgt Ion:276 Resp: 8149

Ion Ratio Lower Upper

276 100

277 26.8 19.5 29.3

138 16.2 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

