

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099508.D
 Acq On : 3 May 2019 00:07
 Operator : JU/SJ
 Sample : K2588-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B013-042519

Quant Time: May 03 02:12:07 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	2081	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	7293	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5391	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	17367	0.40	ng	0.00
27) Chrysene-d12	21.37	240	23896	0.40	ng	0.00
34) Perylene-d12	23.87	264	27038	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2657	0.46	ng	0.00
5) Phenol-d6	6.96	99	3697	0.48	ng	-0.01
8) Nitrobenzene-d5	8.96	82	2945	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	5457	0.42	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1672	0.49	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	8204	0.40	ng	-0.01
25) Fluoranthene-d10	19.22	212	97729	0.42	ng	0.00
29) Terphenyl-d14	19.82	244	20335	0.46	ng	0.00

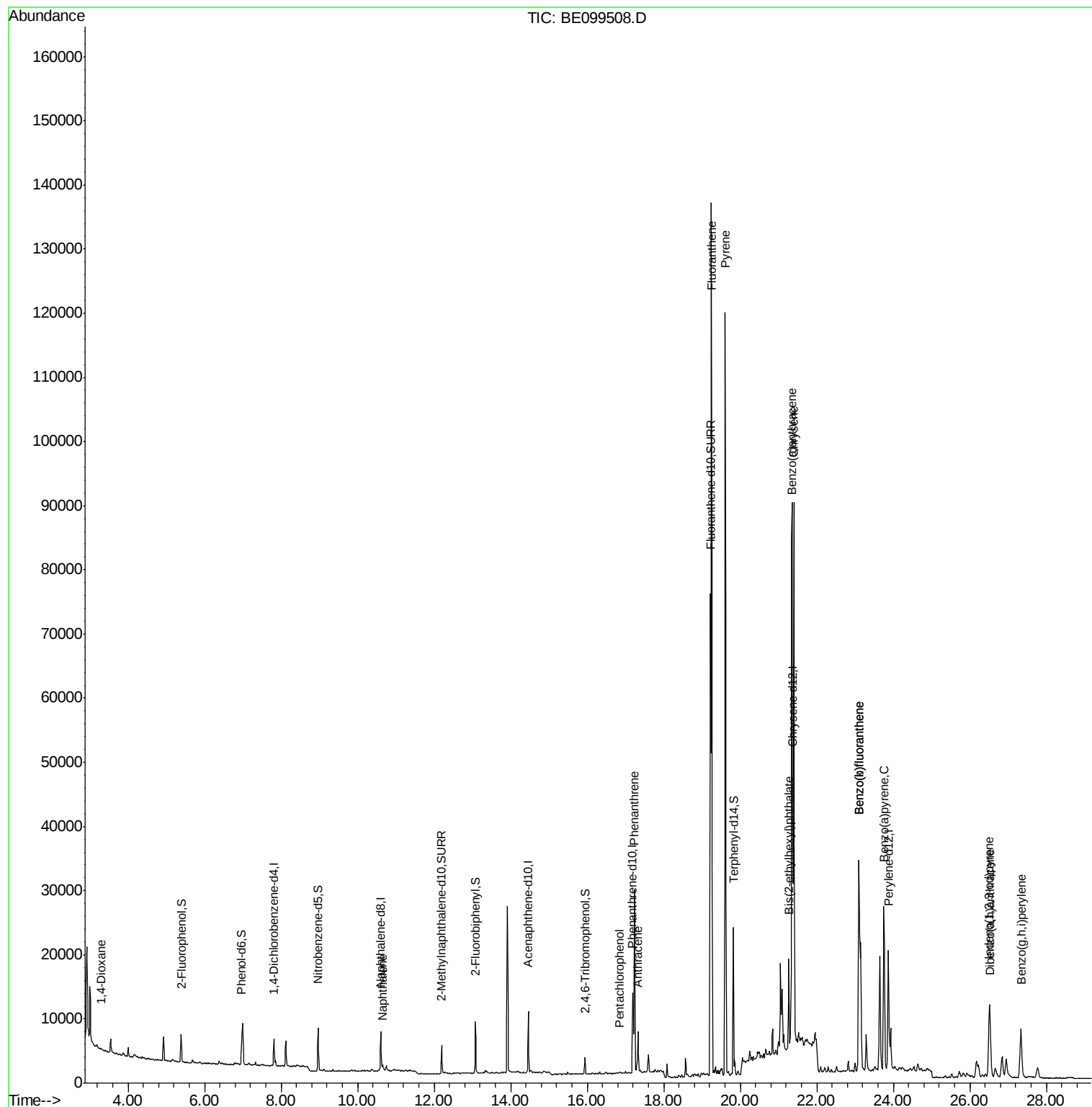
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.29	88	108	0.038	ng	# 27
9) Naphthalene	10.65	128	1592	0.020	ng	# 86
22) Pentachlorophenol	16.84	266	38	0.223	ng	# 69
23) Phenanthrene	17.23	178	31889	0.712	ng	99
24) Anthracene	17.32	178	7015	0.164	ng	# 93
26) Fluoranthene	19.25	202	128575	1.915	ng	100
28) Pyrene	19.61	202	112163	1.801	ng	98
30) Benzo(a)anthracene	21.34	228	91396	1.200	ng	97
31) Chrysene	21.40	228	70228	0.943	ng	97
32) Bis(2-ethylhexyl)phthalate	21.27	149	15594	0.073	ng	99
33) Indeno(1,2,3-cd)pyrene	26.51	276	22664	0.257	ng	98
35) Benzo(b)fluoranthene	23.10	252	65930	0.846	ng	# 97
36) Benzo(k)fluoranthene	23.10	252	65917	0.877	ng	# 97
37) Benzo(a)pyrene	23.75	252	43057	0.584	ng	98
38) Dibenzo(a,h)anthracene	26.54	278	6784	0.090	ng	# 85
39) Benzo(g,h,i)perylene	27.34	276	19199	0.254	ng	98

(#) = 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: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

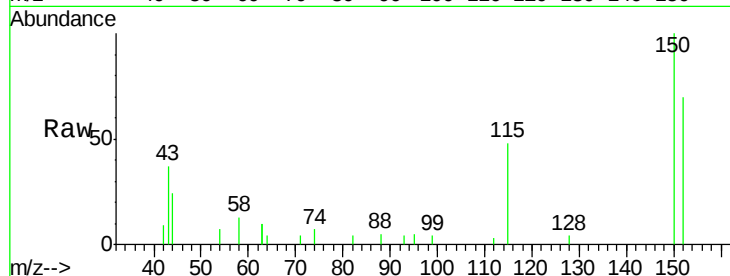
Tot Ion:152 Resp: 2081

Ion Ratio Lower Upper

152 100

150 142.6 104.8 157.2

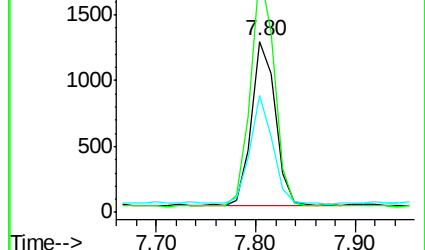
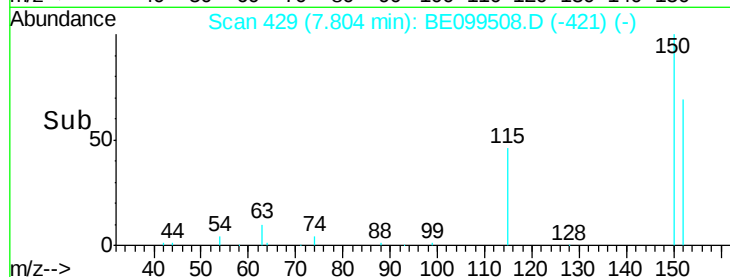
115 68.7 46.6 69.8



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



#2

1,4-Dioxane

Concen: 0.038 ng

RT: 3.29 min Scan# 37

Delta R.T. -0.02 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

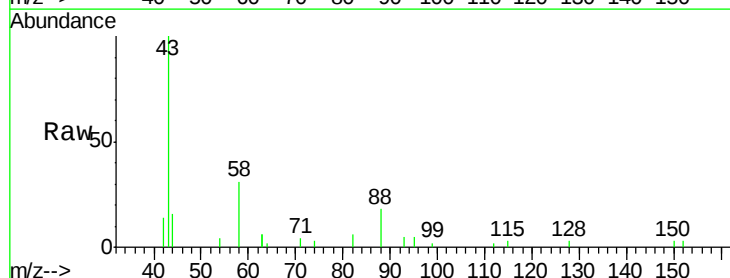
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

58 0.0 51.0 76.6#

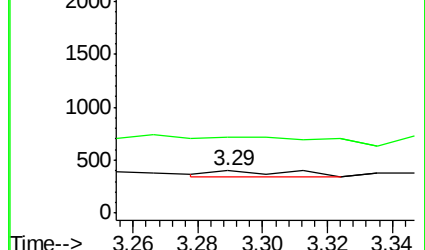
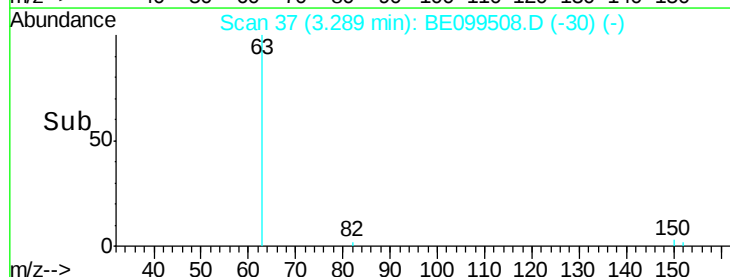
43 0.0 20.6 30.8#

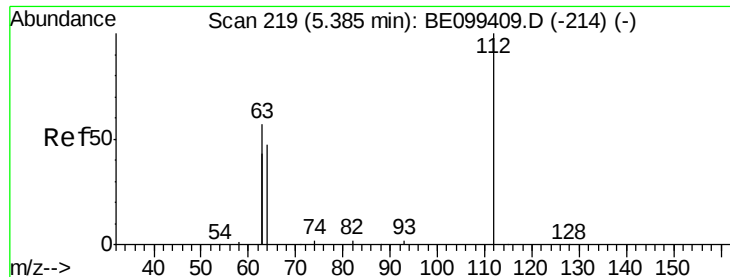


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.462 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

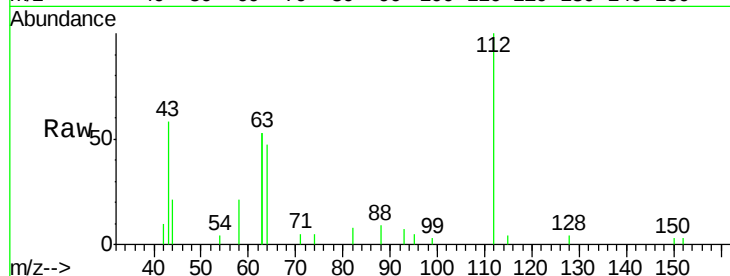
Tot Ion:112 Resp: 2657

Ion Ratio Lower Upper

112 100

64 53.8 47.4 71.0

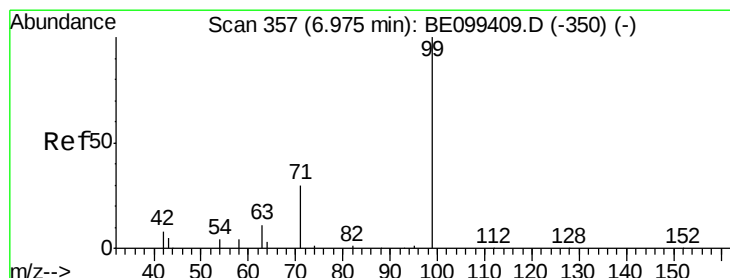
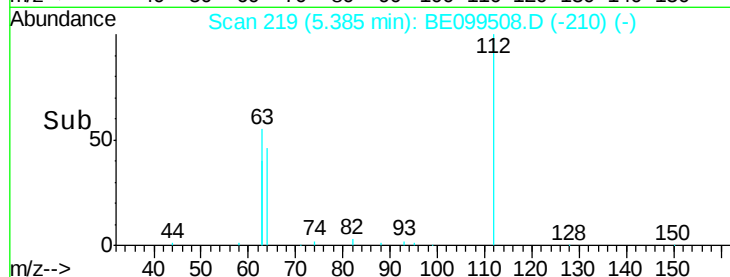
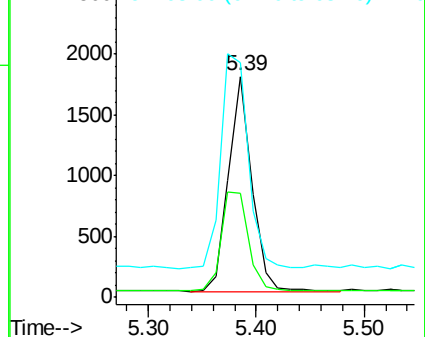
63 115.2 104.3 156.5



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: 0.483 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

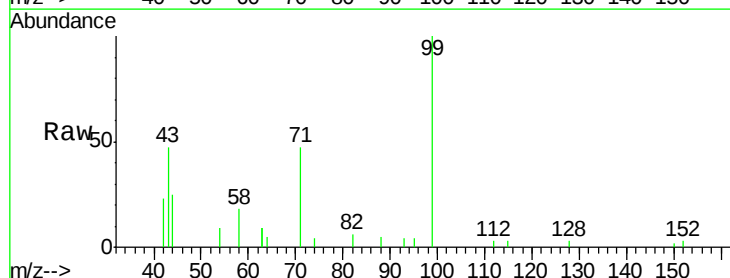
Tgt Ion: 99 Resp: 3697

Ion Ratio Lower Upper

99 100

42 19.6 14.9 22.3

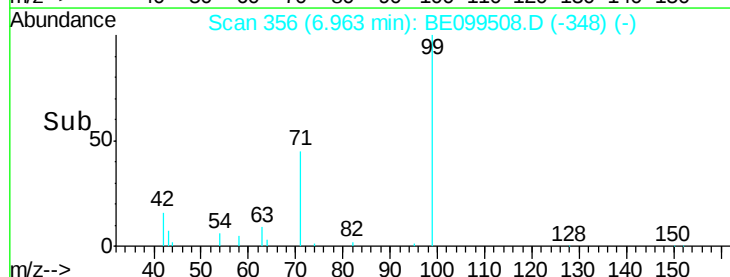
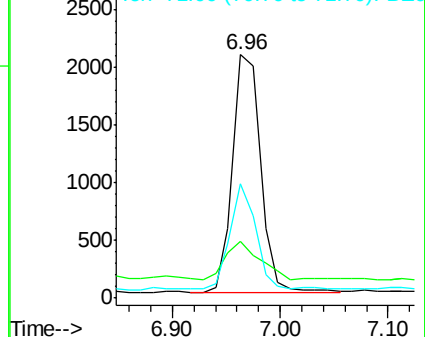
71 41.3 33.0 49.6

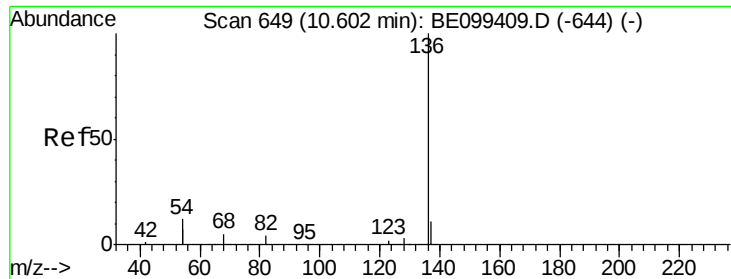


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

Tot Ion:136 Resp: 7293

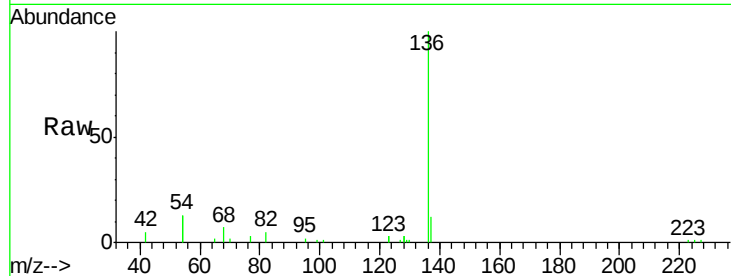
Ion Ratio Lower Upper

136 100

137 12.0 9.8 14.8

54 25.0 18.5 27.7

68 6.9 4.7 7.1

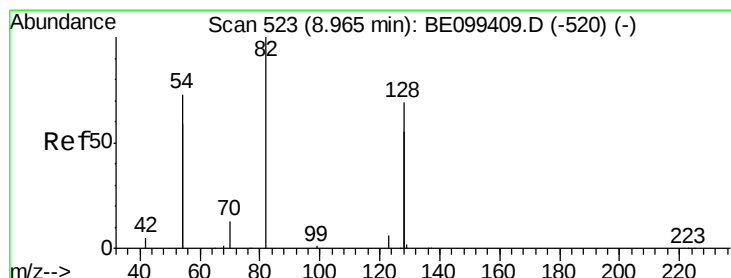
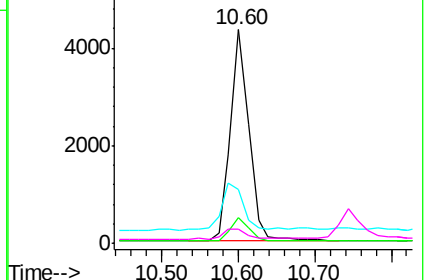
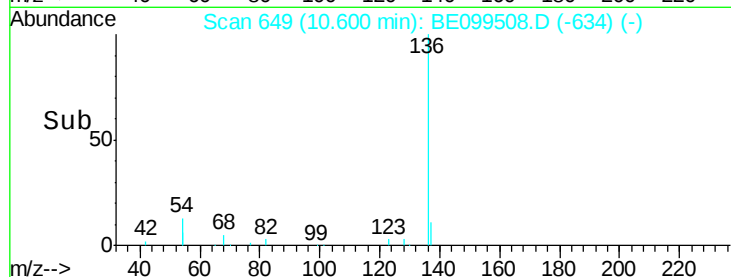


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.431 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

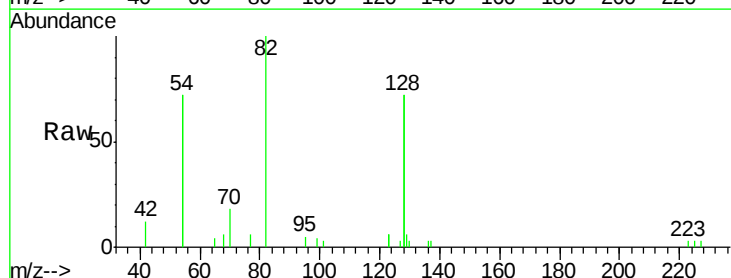
Tgt Ion: 82 Resp: 2945

Ion Ratio Lower Upper

82 100

128 143.4 107.0 160.4

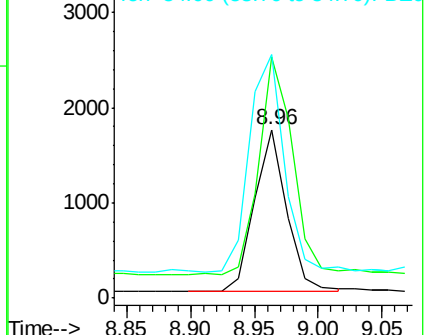
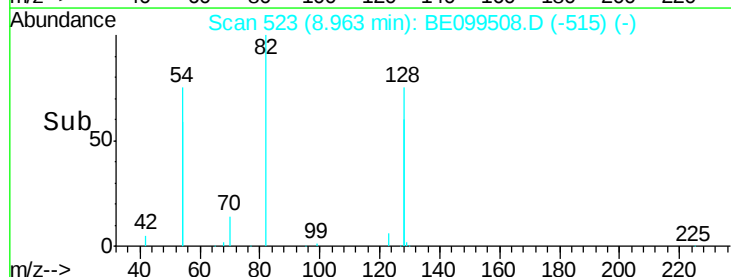
54 144.8 113.1 169.7

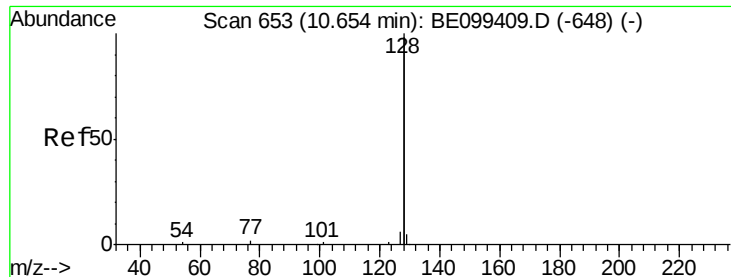


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.020 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

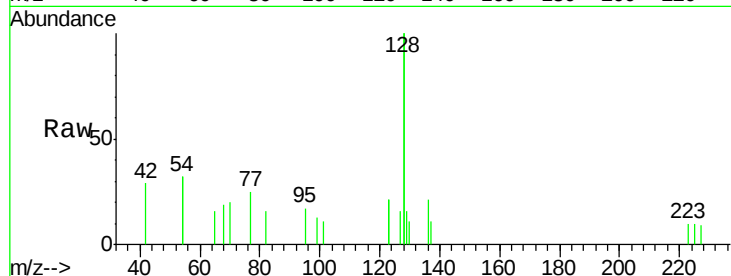
Tot Ion:128 Resp: 1592

Ion Ratio Lower Upper

128 100

129 8.2 2.4 3.6#

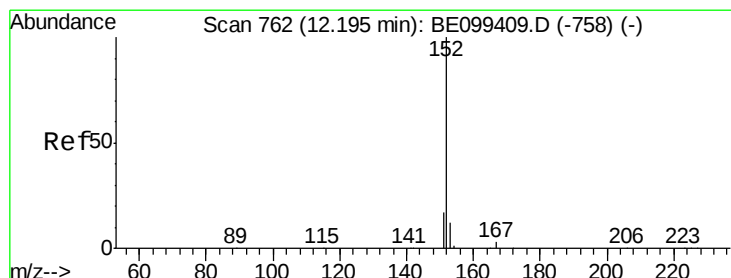
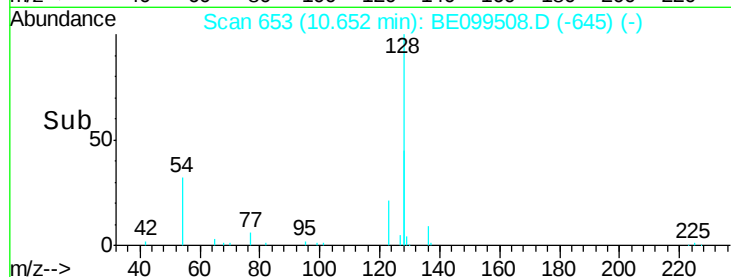
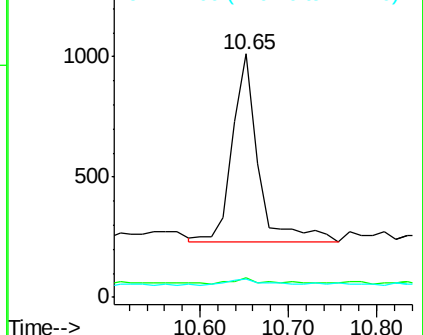
127 7.8 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.415 ng

RT: 12.20 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE099508.D

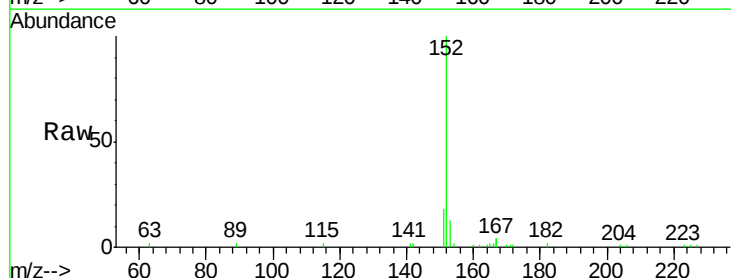
Acq: 3 May 2019 00:07

Tgt Ion:152 Resp: 5457

Ion Ratio Lower Upper

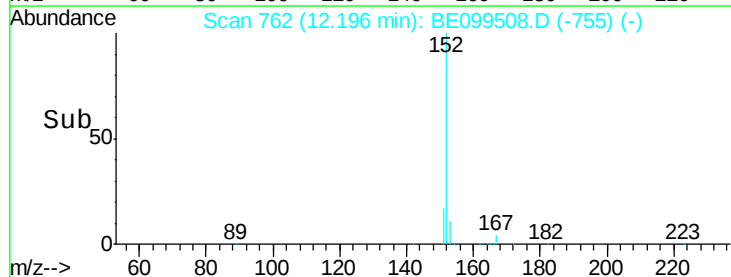
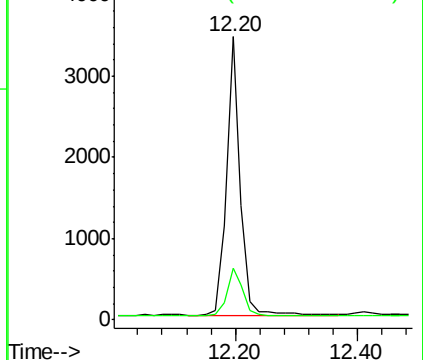
152 100

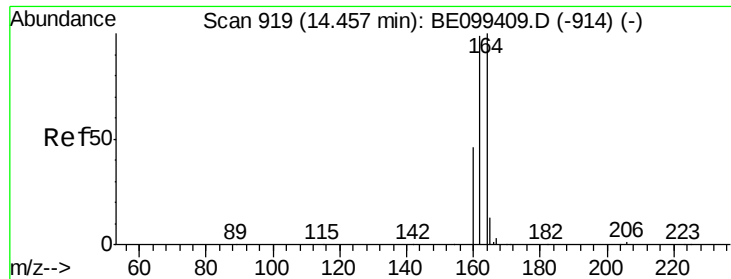
151 19.5 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

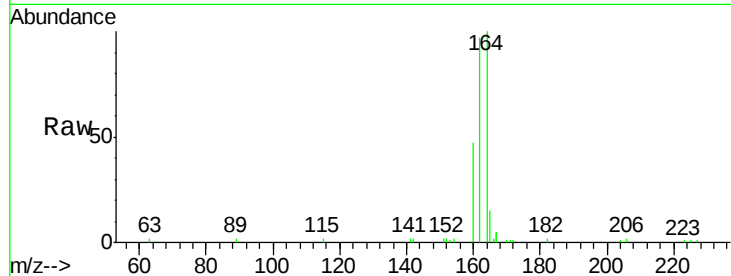
Tot Ion:164 Resp: 5391

Ion Ratio Lower Upper

164 100

162 97.5 79.0 118.4

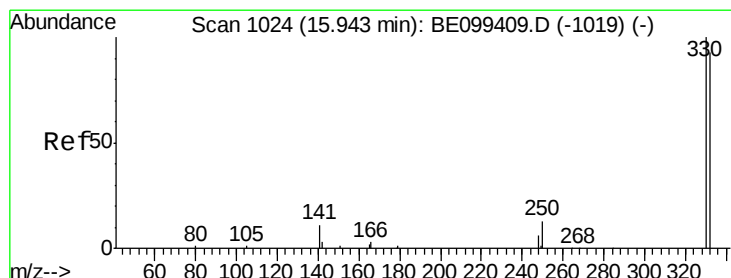
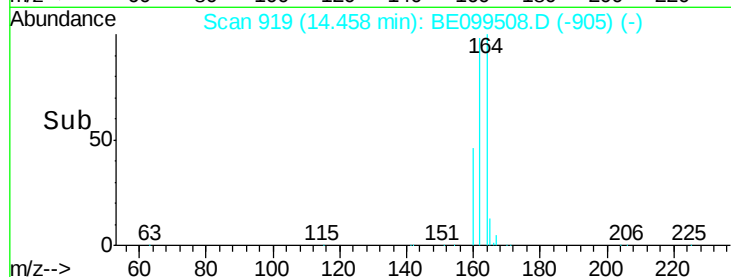
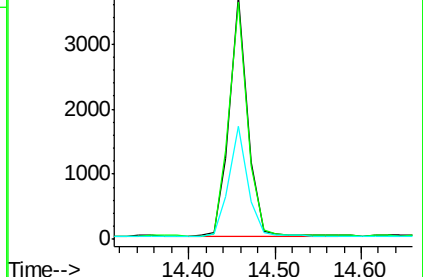
160 46.6 37.0 55.4



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

2,4,6-Tribromophenol

Concen: 0.492 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

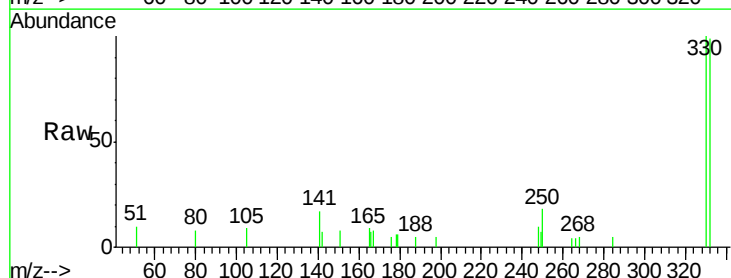
Tgt Ion:330 Resp: 1672

Ion Ratio Lower Upper

330 100

332 98.1 71.5 107.3

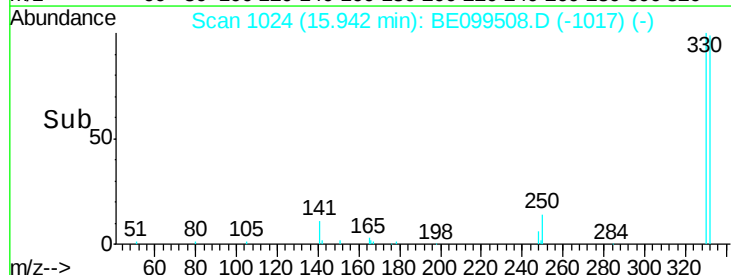
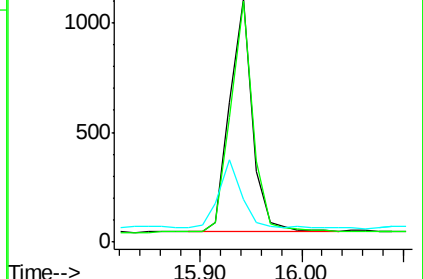
141 28.3 24.0 36.0

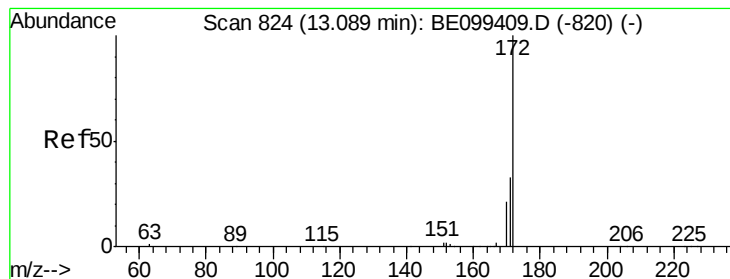


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

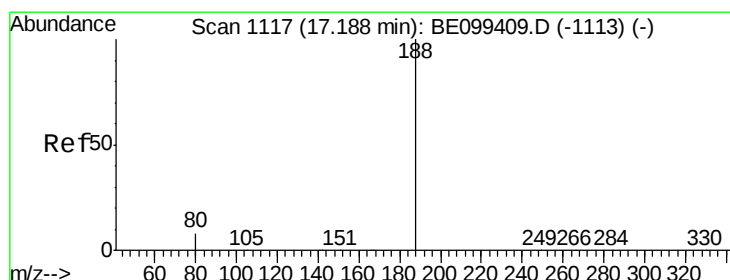
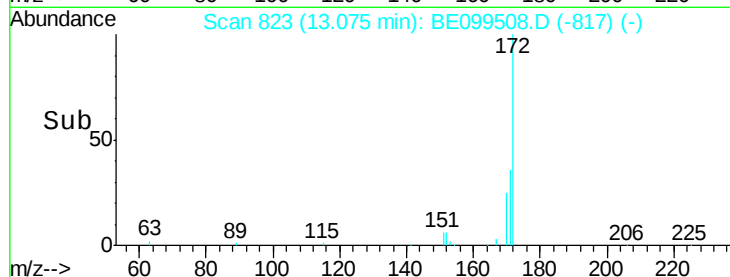
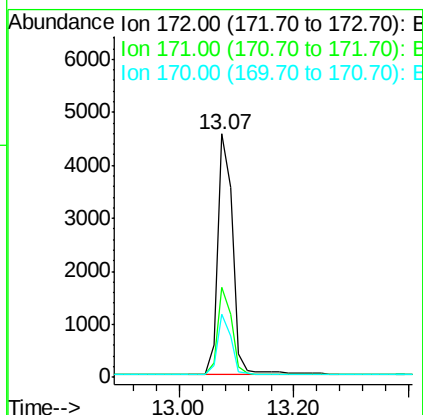
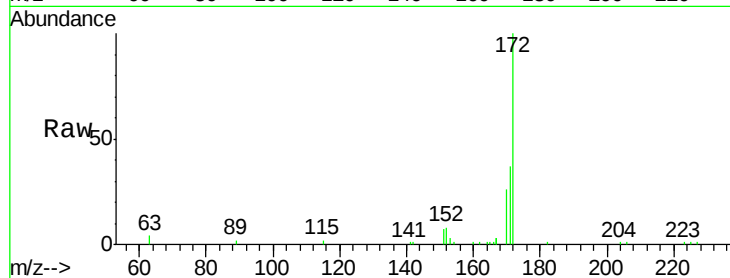




#15
 2-Fluorobiphenyl
 Concen: 0.399 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: BE099508.D
 Acq: 3 May 2019 00:07

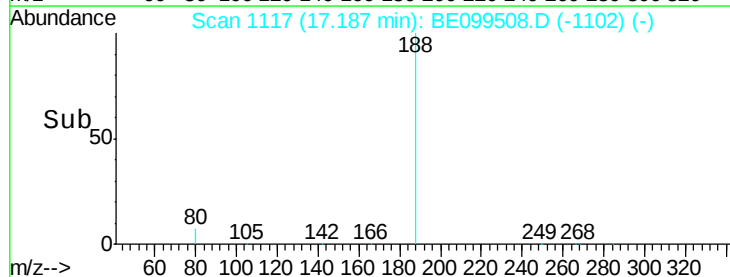
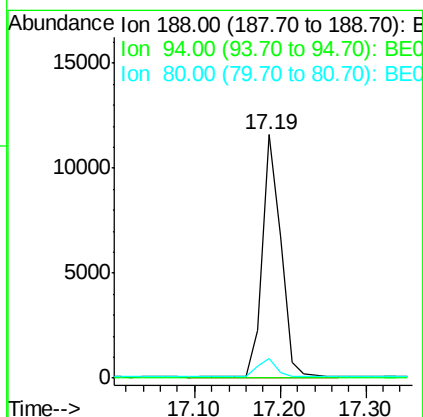
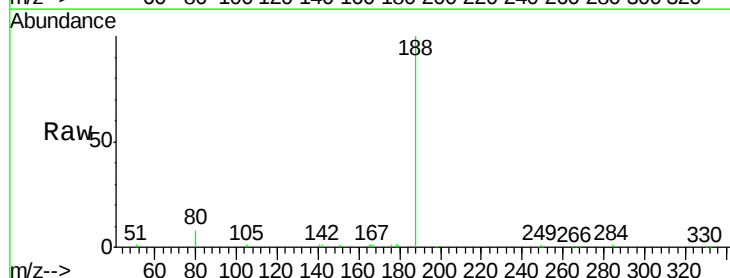
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 PST-001-B013-042519

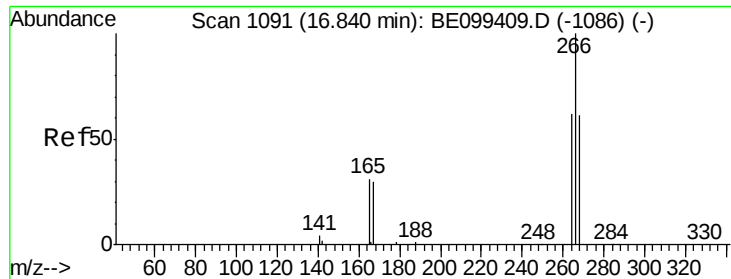
Tot Ion:172 Resp: 8204
 Ion Ratio Lower Upper
 172 100
 171 36.8 26.6 39.8
 170 26.1 17.0 25.6#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.00 min
 Lab File: BE099508.D
 Acq: 3 May 2019 00:07

Tgt Ion:188 Resp: 17367
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.9 6.7 10.1





#22

Pentachlorophenol

Concen: 0.223 ng

RT: 16.84 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

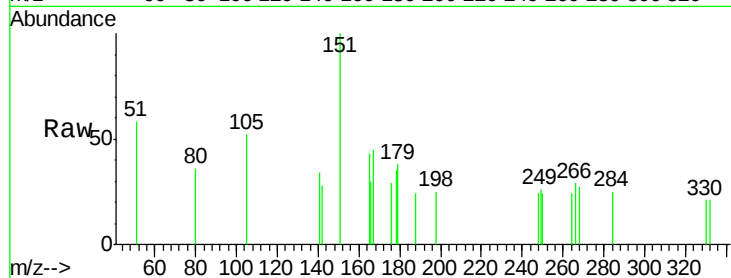
Tot Ion:266 Resp: 38

Ion Ratio Lower Upper

266 100

264 81.0 50.8 76.2#

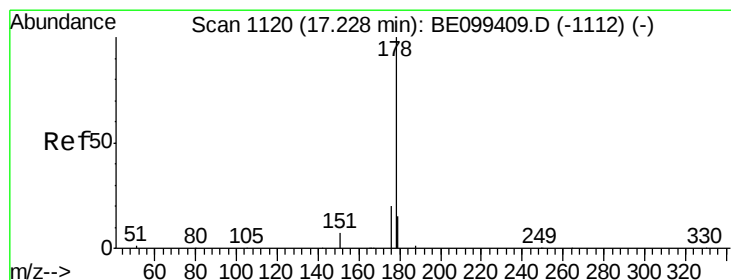
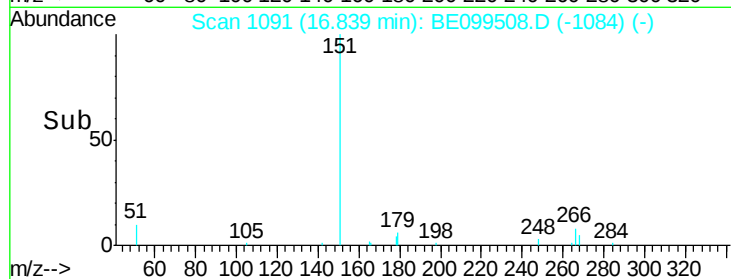
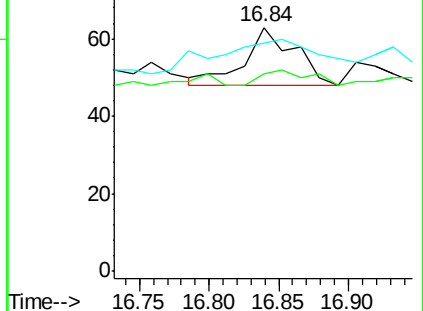
268 93.7 50.5 75.7#



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: 0.712 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

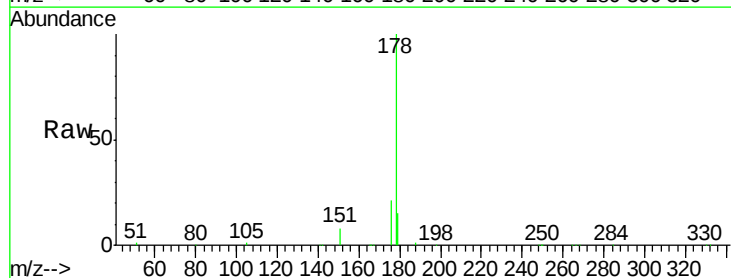
Tgt Ion:178 Resp: 31889

Ion Ratio Lower Upper

178 100

176 19.7 15.6 23.4

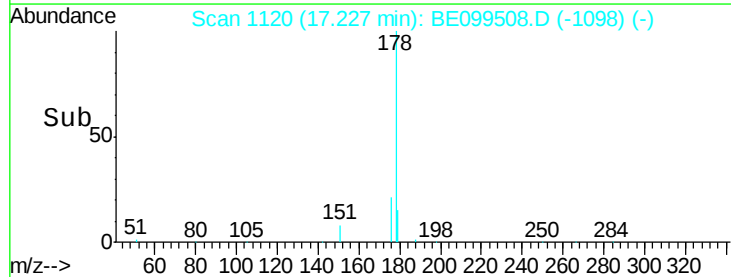
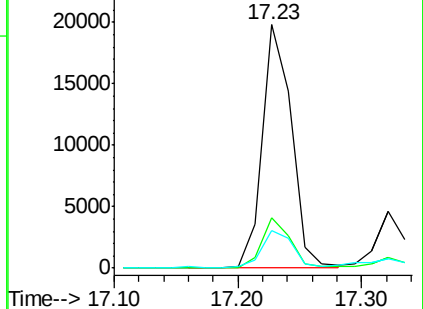
179 15.9 12.0 18.0

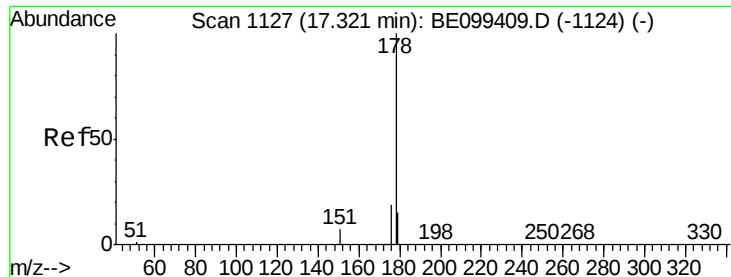


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.164 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

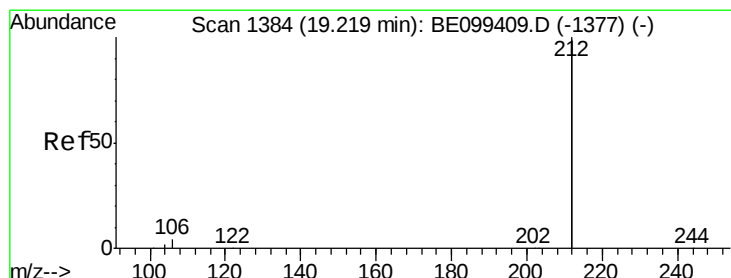
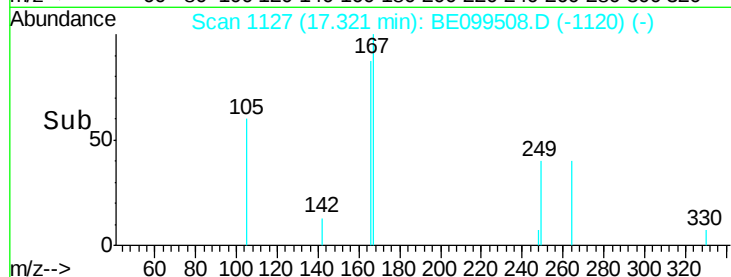
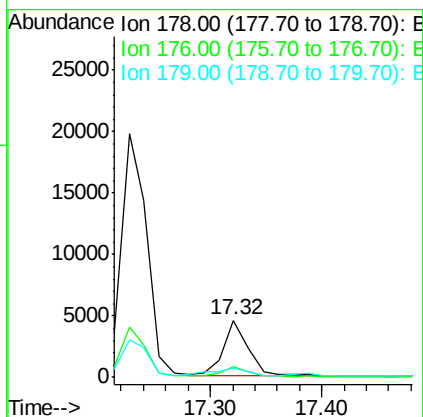
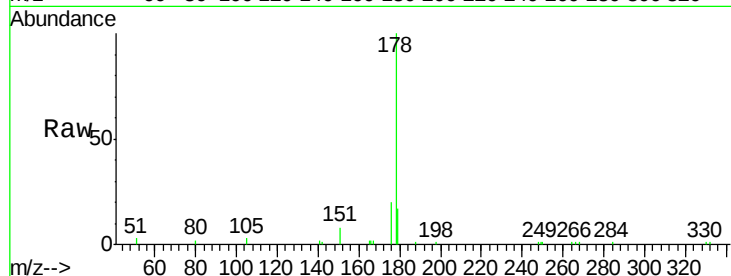
Tot Ion:178 Resp: 7015

Ion Ratio Lower Upper

178 100

176 17.9 14.9 22.3

179 20.4 11.9 17.9#



#25

Fluoranthene-d10

Concen: 0.418 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

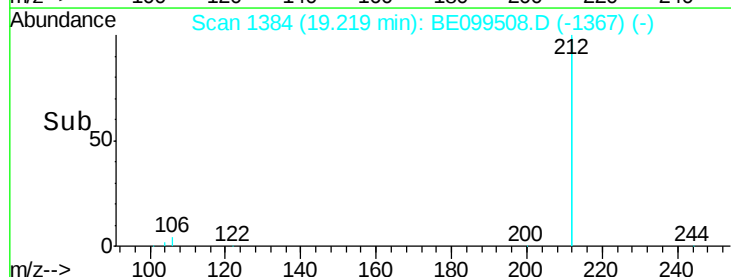
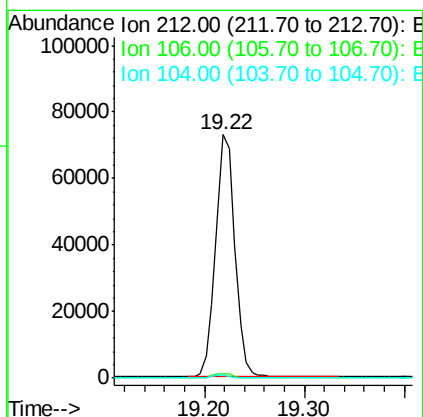
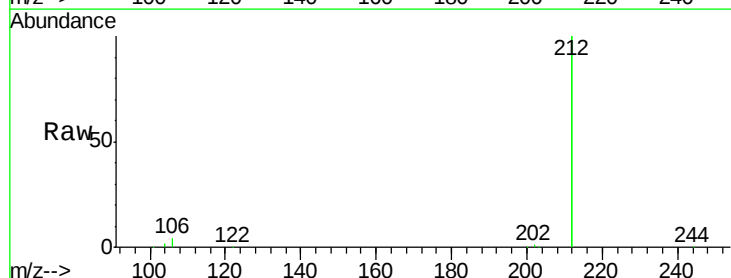
Tgt Ion:212 Resp: 97729

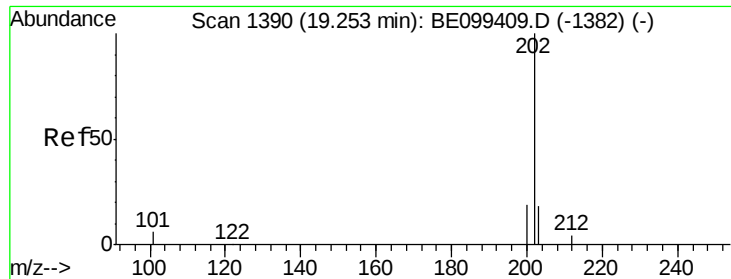
Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

104 1.1 0.9 1.3

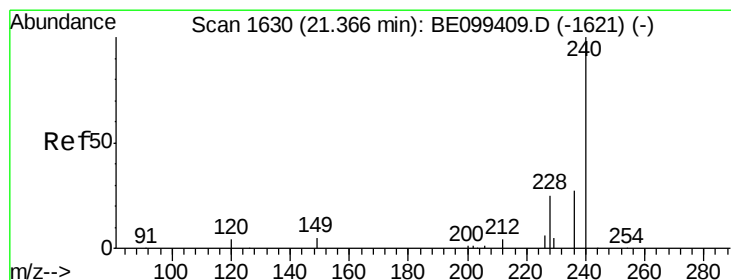
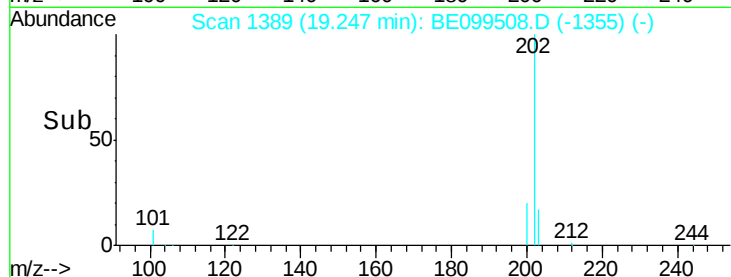
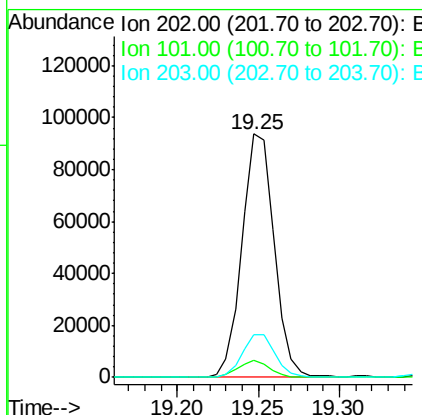
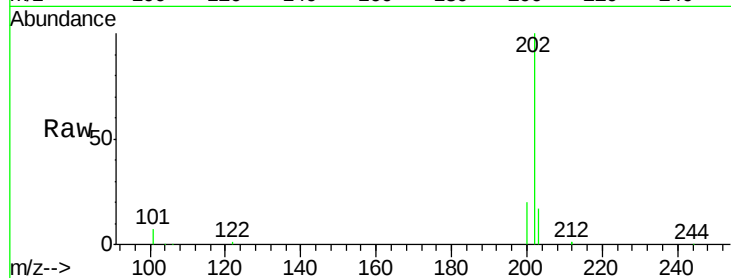




#26
 Fluoranthene
 Concen: 1.915 ng
 RT: 19.25 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: BE099508.D
 Acq: 3 May 2019 00:07

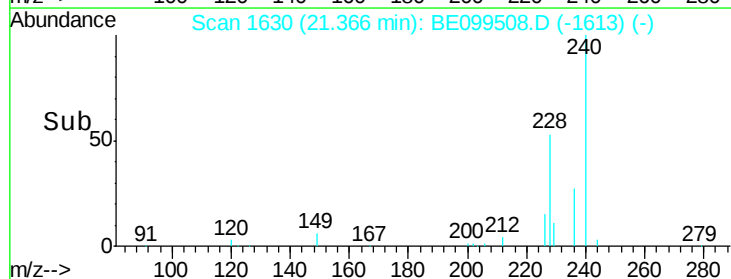
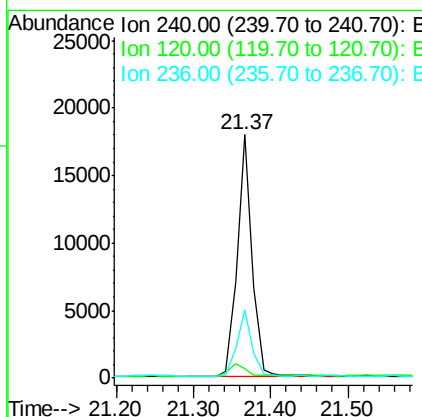
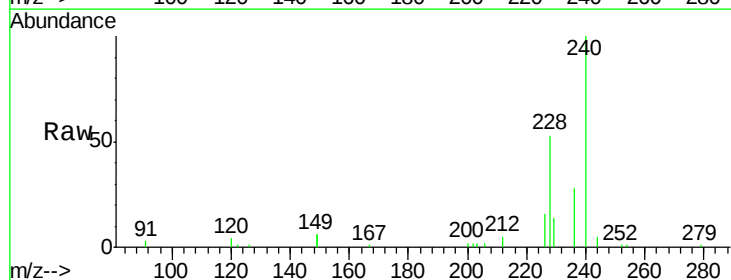
Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B013-042519

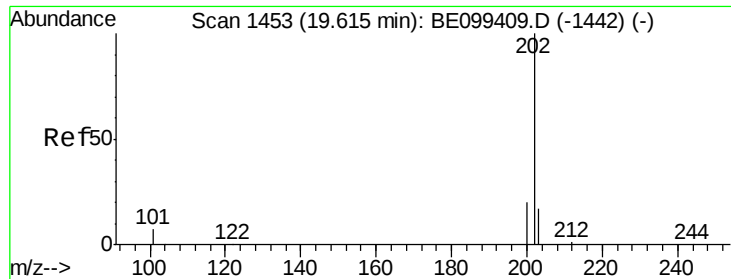
Tot Ion:202 Resp: 128575
 Ion Ratio Lower Upper
 202 100
 101 6.6 5.4 8.0
 203 17.5 13.9 20.9



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: BE099508.D
 Acq: 3 May 2019 00:07

Tgt Ion:240 Resp: 23896
 Ion Ratio Lower Upper
 240 100
 120 4.0 4.0 6.0#
 236 27.9 22.0 33.0

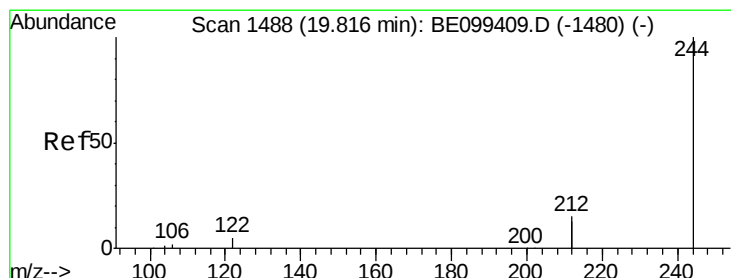
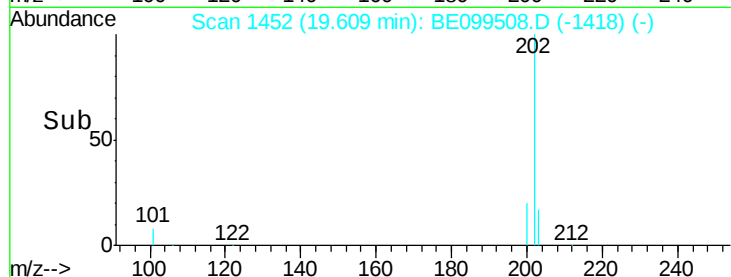
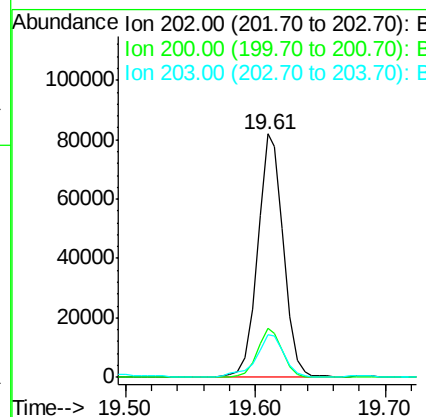
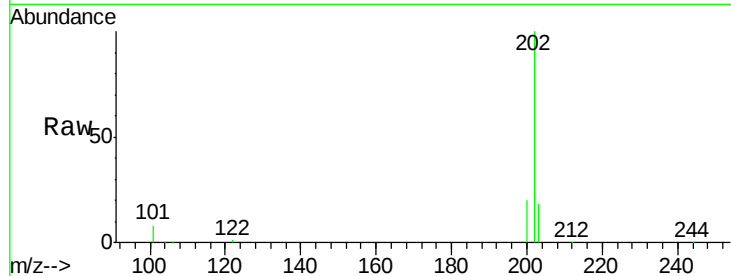




#28
Pvrene
Concen: 1.801 ng
RT: 19.61 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BE099508.D
Acq: 3 May 2019 00:07

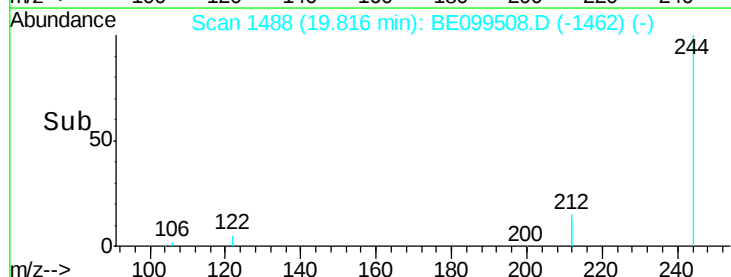
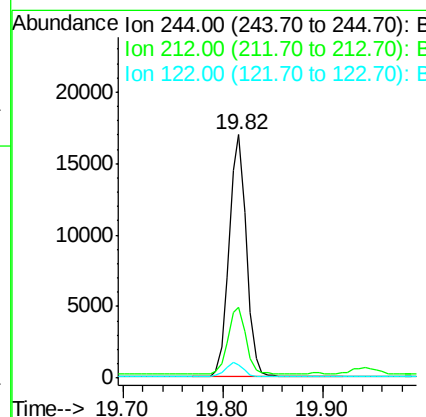
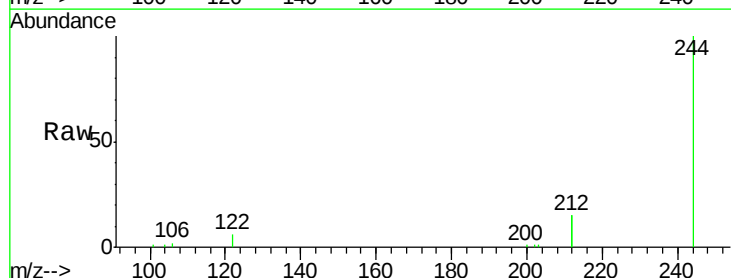
Instrument :
BNA_E
ClientSampleId :
PST-001-B013-042519

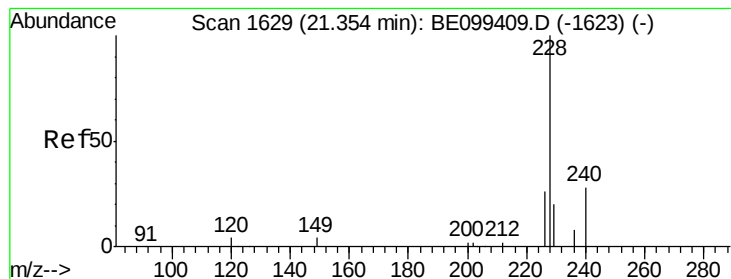
Tot Ion:202 Resp: 112163
Ion Ratio Lower Upper
202 100
200 19.7 15.7 23.5
203 19.2 13.9 20.9



#29
Terphenyl-d14
Concen: 0.465 ng
RT: 19.82 min Scan# 1488
Delta R.T. -0.00 min
Lab File: BE099508.D
Acq: 3 May 2019 00:07

Tgt Ion:244 Resp: 20335
Ion Ratio Lower Upper
244 100
212 29.1 23.2 34.8
122 5.6 4.2 6.4





#30

Benzo(a)anthracene

Concen: 1.200 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

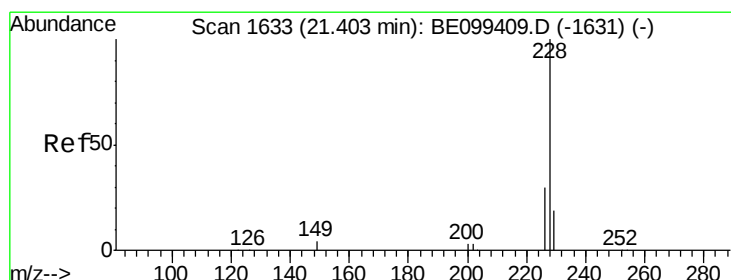
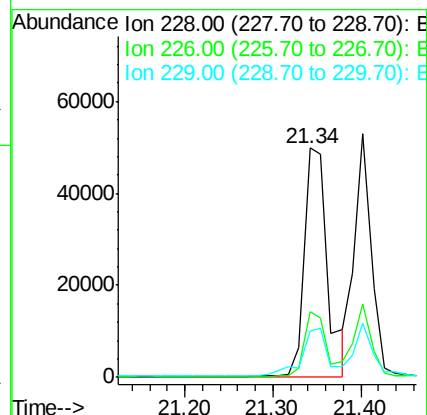
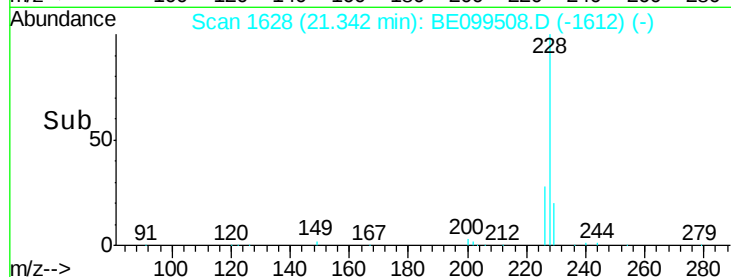
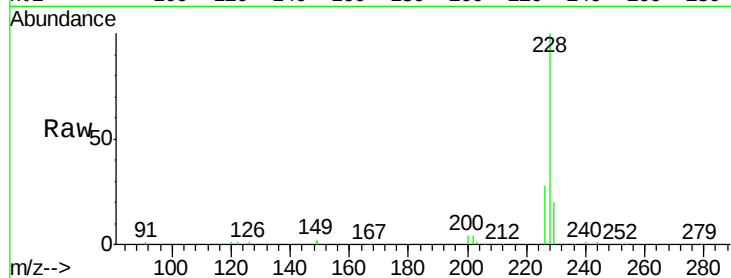
Tot Ion:228 Resp: 91396

Ion Ratio Lower Upper

228 100

226 28.4 21.0 31.6

229 20.5 16.6 25.0



#31

Chrysene

Concen: 0.943 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

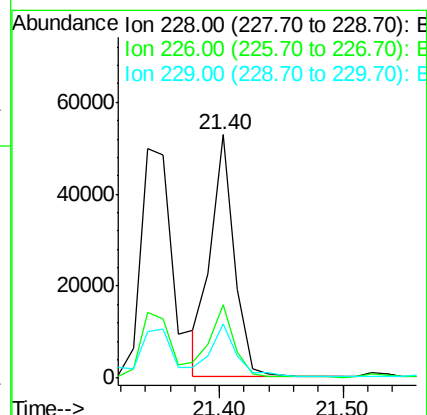
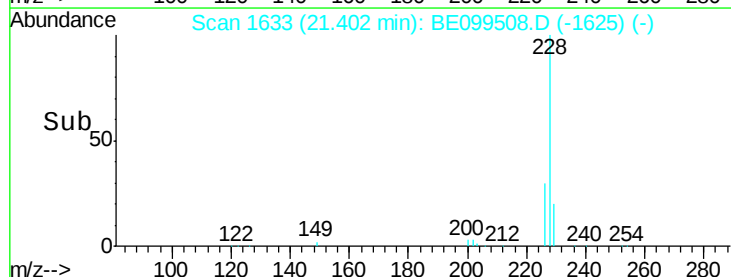
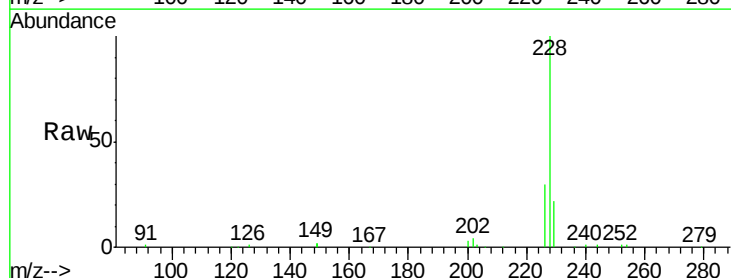
Tgt Ion:228 Resp: 70228

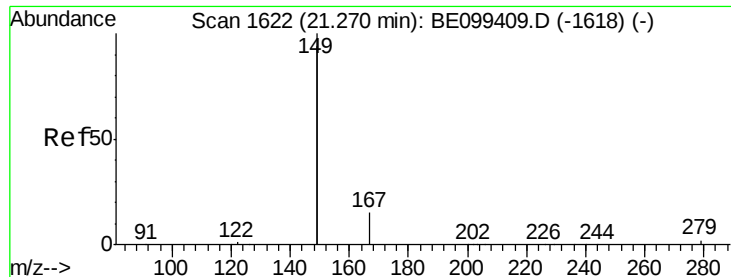
Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

229 22.3 15.8 23.8





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.073 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

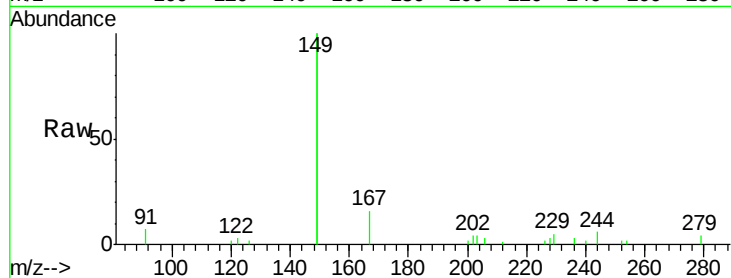
Tot Ion:149 Resp: 15594

Ion Ratio Lower Upper

149 100

167 7.7 5.8 8.6

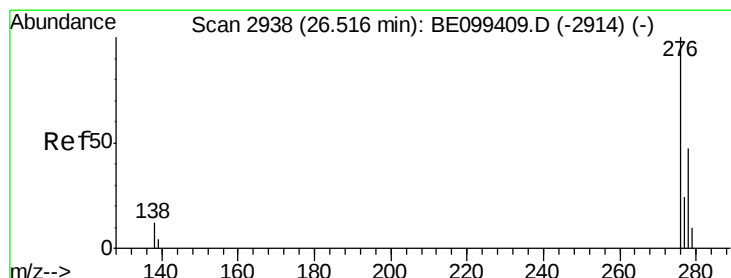
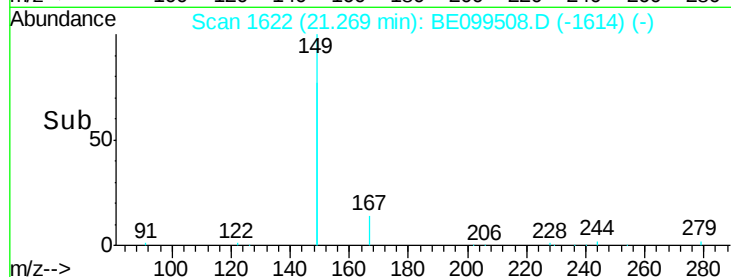
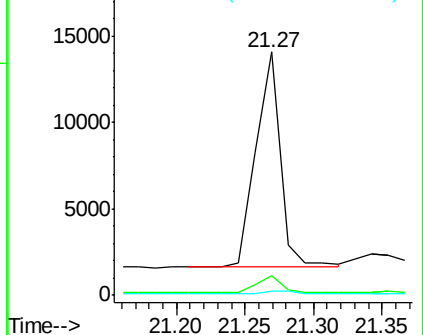
279 1.5 1.0 1.6



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: 0.257 ng

RT: 26.51 min Scan# 2937

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

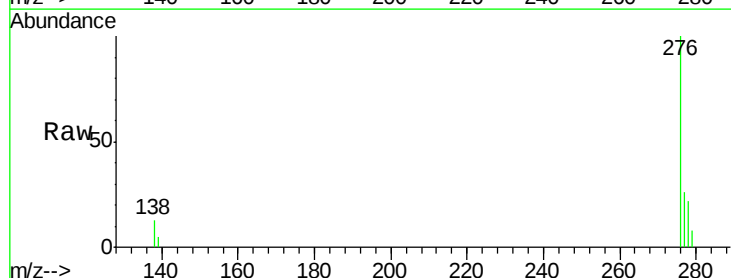
Tgt Ion:276 Resp: 22664

Ion Ratio Lower Upper

276 100

138 10.9 10.2 15.2

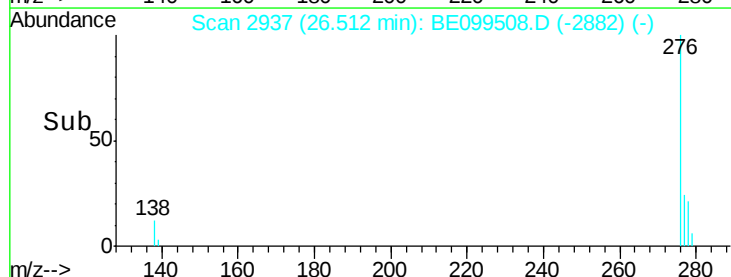
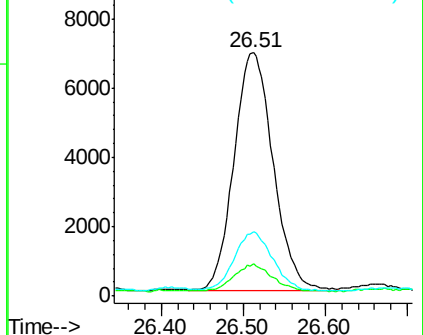
277 24.6 19.2 28.8

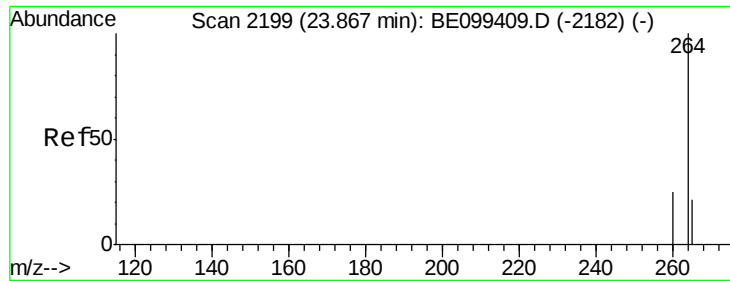


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

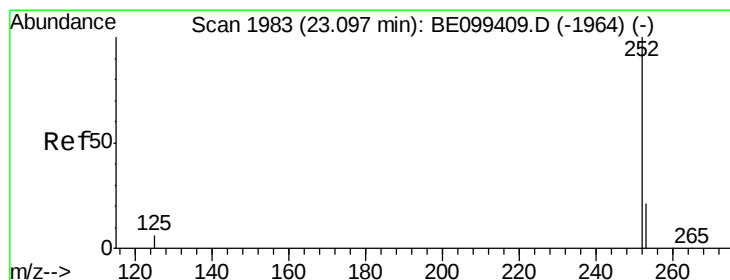
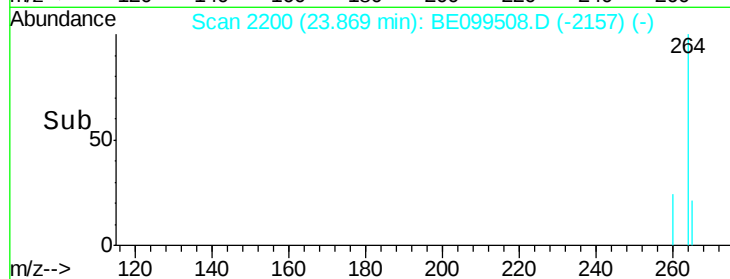
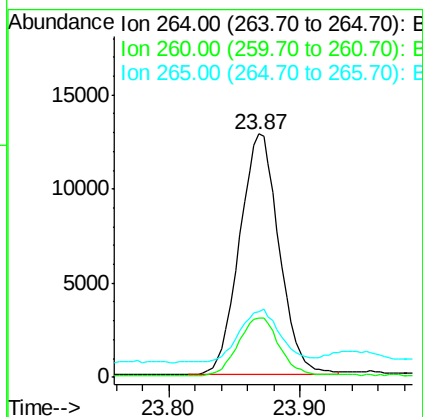
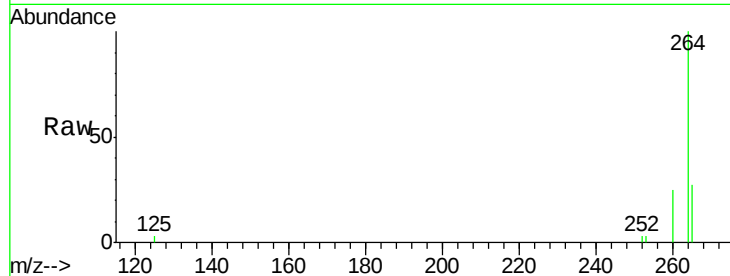




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.87 min Scan# 2200
Delta R.T. 0.00 min
Lab File: BE099508.D
Acq: 3 May 2019 00:07

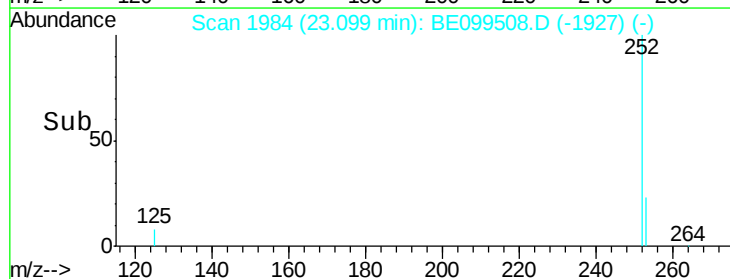
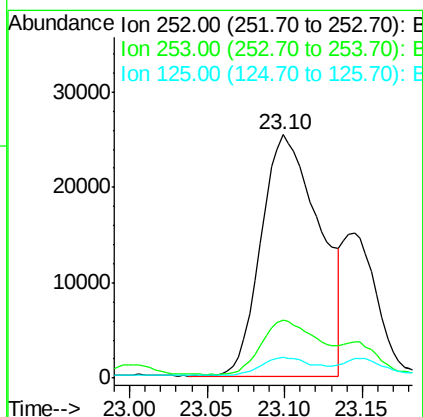
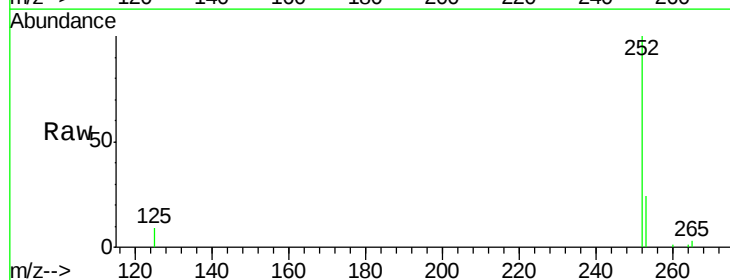
Instrument :
BNA_E
ClientSampleId :
PST-001-B013-042519

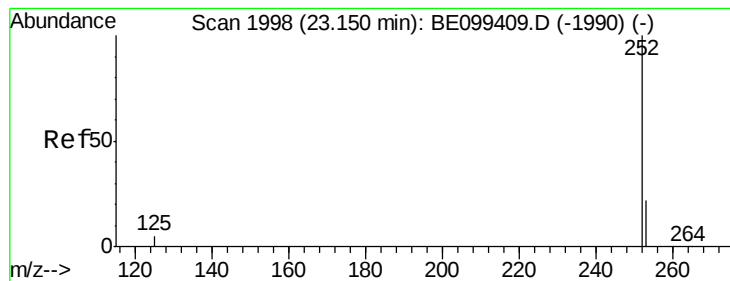
Tot Ion:264 Resp: 27038
Ion Ratio Lower Upper
264 100
260 24.6 20.2 30.2
265 27.0 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.846 ng
RT: 23.10 min Scan# 1984
Delta R.T. 0.00 min
Lab File: BE099508.D
Acq: 3 May 2019 00:07

Tgt Ion:252 Resp: 65930
Ion Ratio Lower Upper
252 100
253 23.8 18.1 27.1
125 8.8 5.6 8.4#





#36

Benzo(k)fluoranthene

Concen: 0.877 ng

RT: 23.10 min Scan# 1984

Delta R.T. -0.05 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

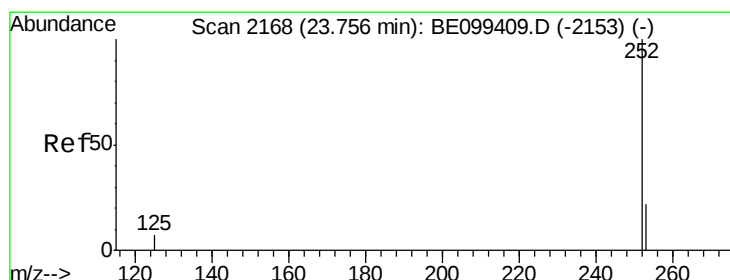
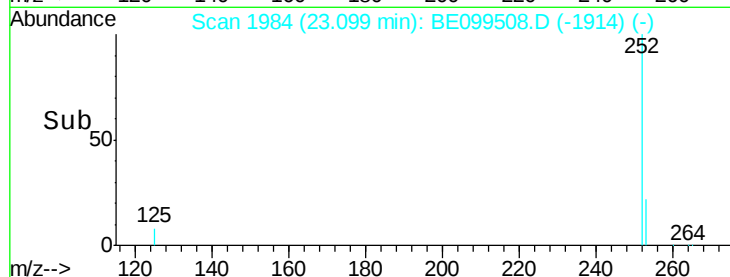
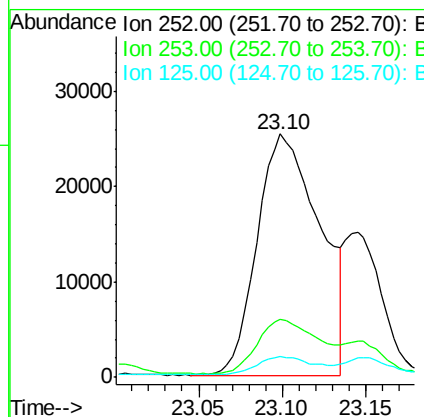
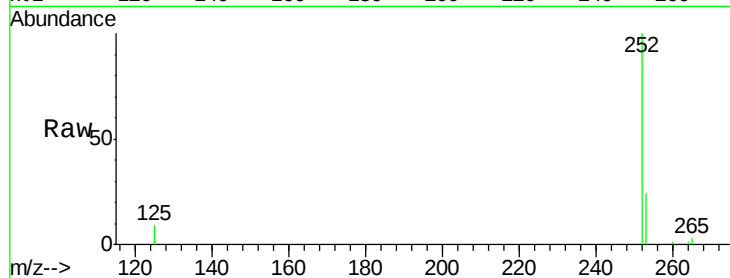
Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

Tot Ion:252	Resp:	65917
Ion Ratio	Lower	Upper
252	100	
253	23.8	18.4 27.6
125	8.8	5.0 7.4#



#37

Benzo(a)pyrene

Concen: 0.584 ng

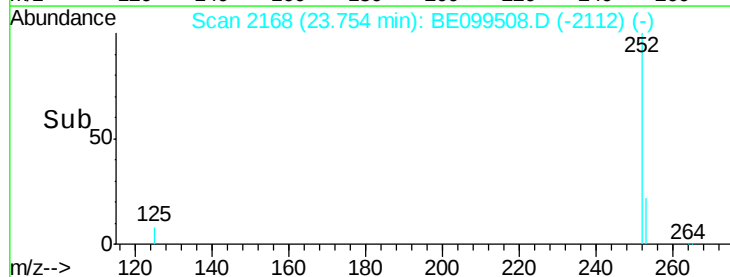
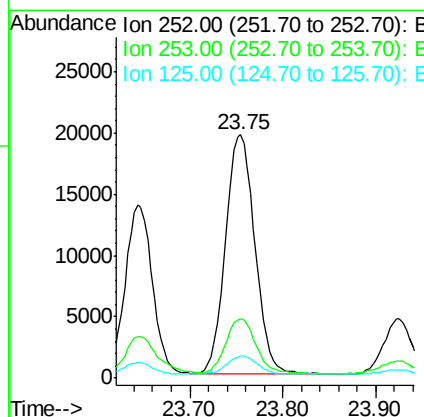
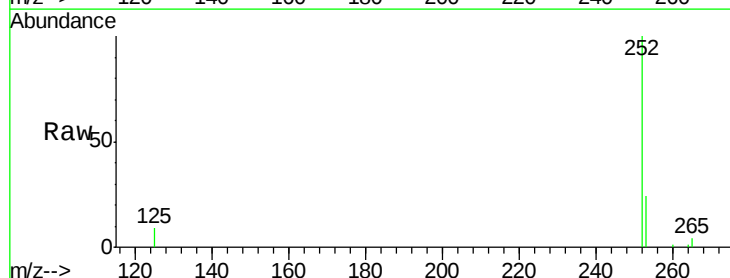
RT: 23.75 min Scan# 2168

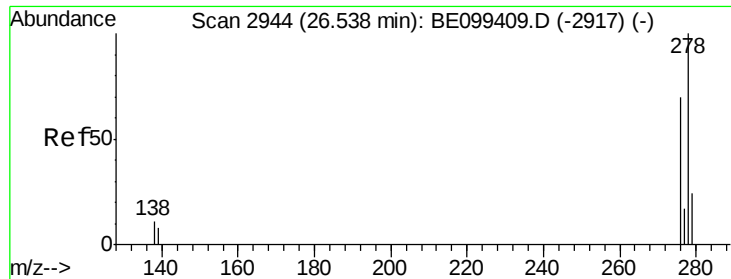
Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Tgt Ion:252	Resp:	43057
Ion Ratio	Lower	Upper
252	100	
253	24.4	18.9 28.3
125	9.3	6.7 10.1





#38

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.54 min Scan# 2944

Delta R.T. -0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

Instrument :

BNA_E

ClientSampleId :

PST-001-B013-042519

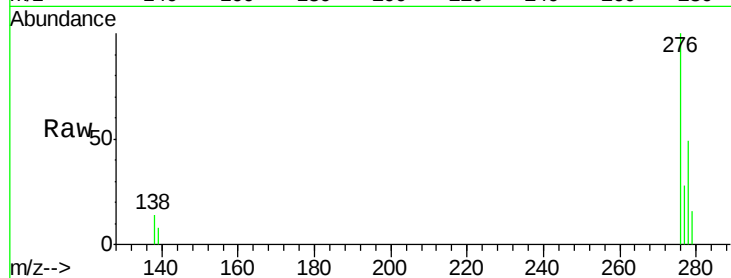
Tot Ion:278 Resp: 6784

Ion Ratio Lower Upper

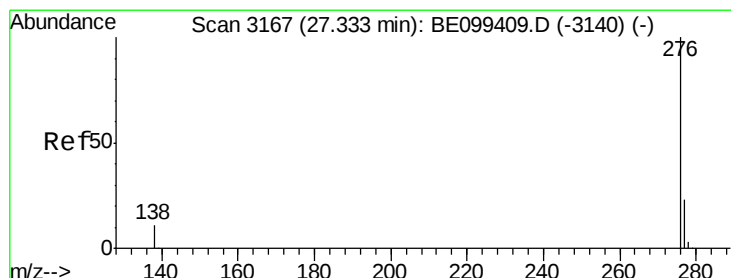
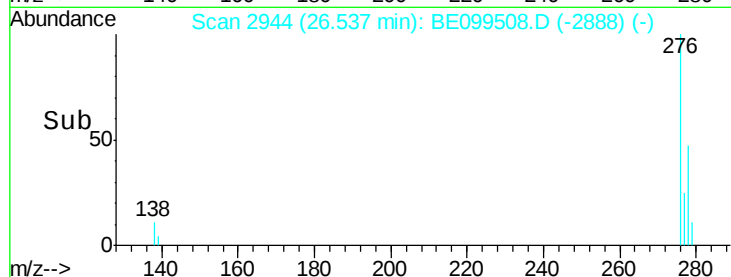
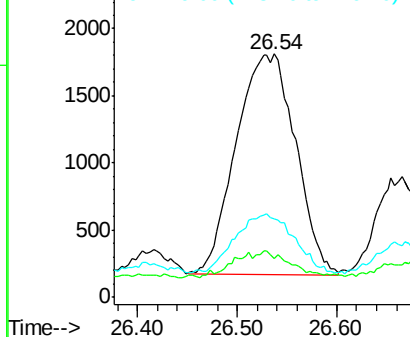
278 100

139 16.2 7.7 11.5#

279 32.5 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: 0.254 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099508.D

Acq: 3 May 2019 00:07

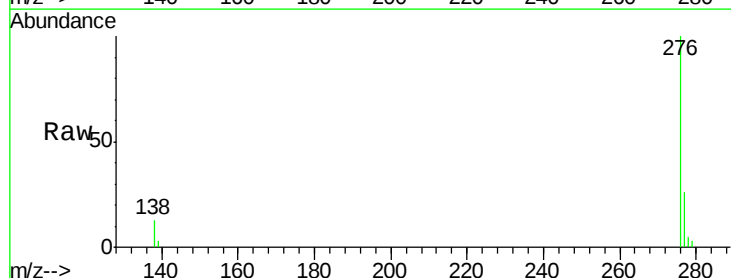
Tgt Ion:276 Resp: 19199

Ion Ratio Lower Upper

276 100

277 25.6 19.5 29.3

138 12.7 9.6 14.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

