

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050219\
 Data File : BE099506.D
 Acq On : 2 May 2019 22:55
 Operator : JU/SJ
 Sample : K2589-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B190-042419

Quant Time: May 03 02:11:51 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	2490	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	8785	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6545	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	20392	0.40	ng	0.00
27) Chrysene-d12	21.37	240	26194	0.40	ng	0.00
34) Perylene-d12	23.87	264	30649	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2785	0.40	ng	0.00
5) Phenol-d6	6.97	99	3927	0.43	ng	0.00
8) Nitrobenzene-d5	8.97	82	3301	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	5529	0.35	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1835	0.45	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	8304	0.33	ng	-0.01
25) Fluoranthene-d10	19.22	212	91986	0.33	ng	0.00
29) Terphenyl-d14	19.82	244	18197	0.38	ng	0.00

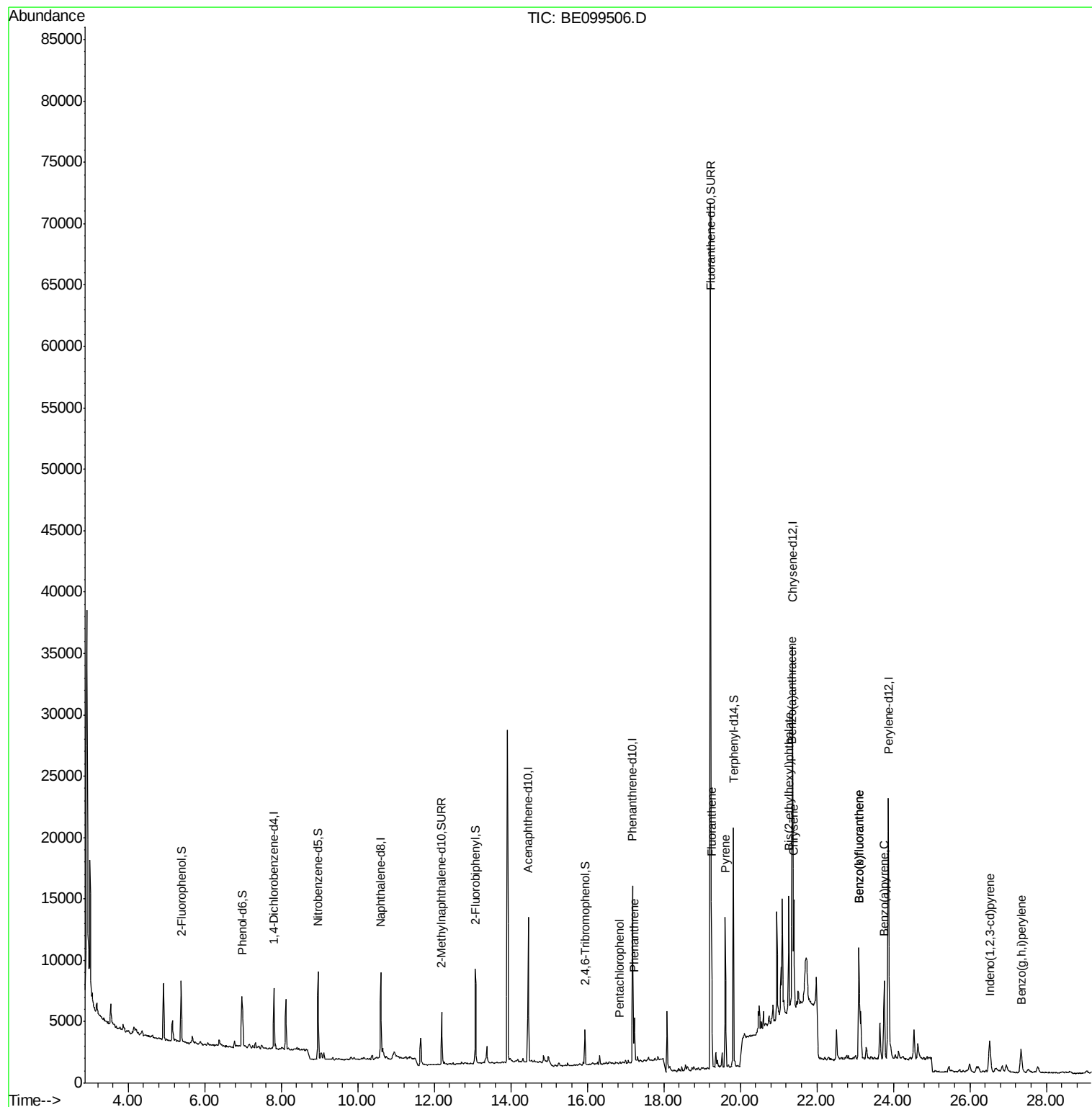
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	16.84	266	69	0.226	ng	# 73
23) Phenanthrene	17.23	178	3764	0.072	ng	# 95
26) Fluoranthene	19.25	202	11220	0.142	ng	# 99
28) Pyrene	19.61	202	11553	0.169	ng	# 96
30) Benzo(a)anthracene	21.35	228	7076	0.085	ng	# 89
31) Chrysene	21.40	228	7210	0.088	ng	# 92
32) Bis(2-ethylhexyl)phthalate	21.27	149	12405	0.034	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.52	276	4815	0.050	ng	# 94
35) Benzo(b)fluoranthene	23.10	252	10692	0.121	ng	# 20
36) Benzo(k)fluoranthene	23.10	252	10692	0.125	ng	# 23
37) Benzo(a)pyrene	23.76	252	7174	0.086	ng	# 32
39) Benzo(a,h,i)perylene	27.34	276	4967	0.058	ng	# 87

(#) = 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: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

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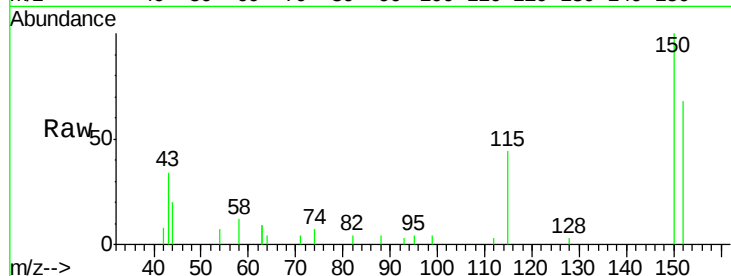
Tot Ion:152 Resp: 2490

Ion Ratio Lower Upper

152 100

150 146.7 104.8 157.2

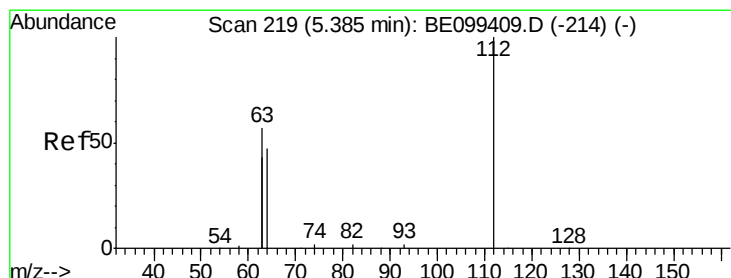
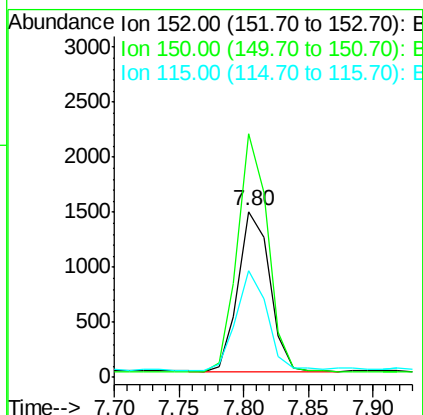
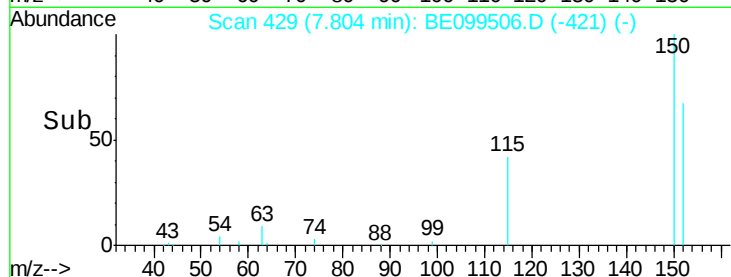
115 64.3 46.6 69.8



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: 0.405 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

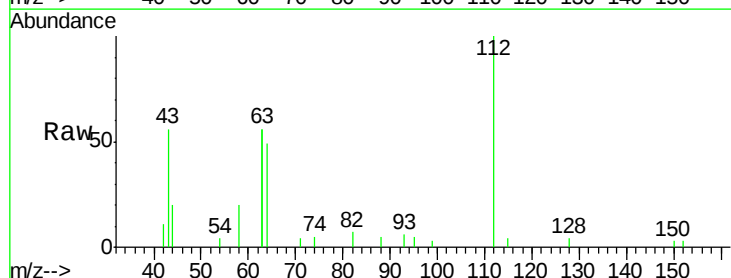
Tgt Ion:112 Resp: 2785

Ion Ratio Lower Upper

112 100

64 55.5 47.4 71.0

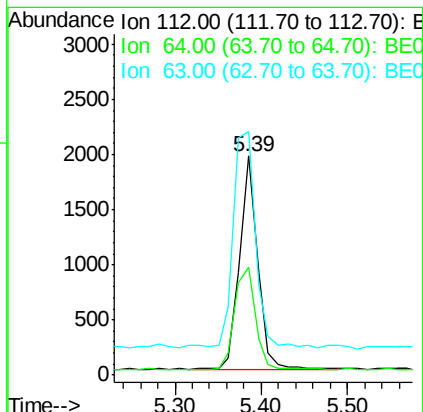
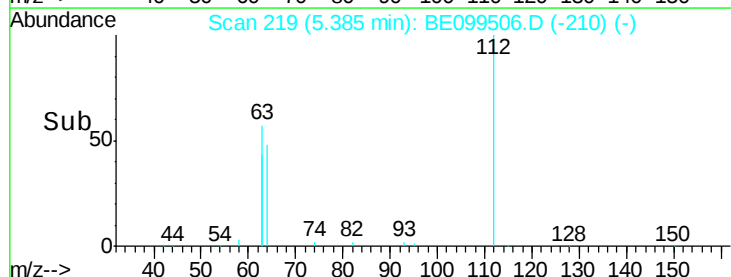
63 126.3 104.3 156.5

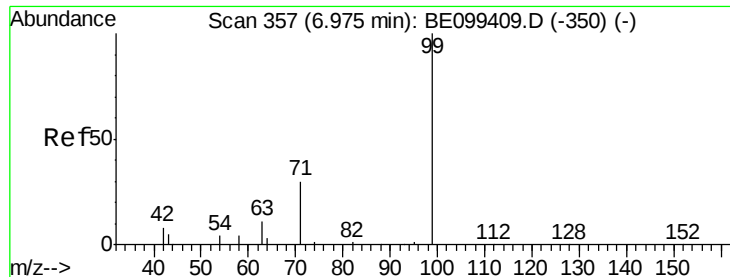


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.429 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

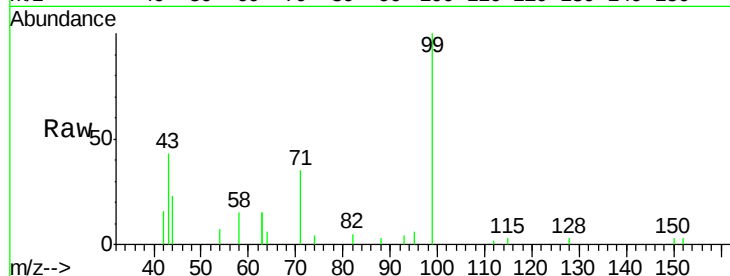
Tot Ion: 99 Resp: 3927

Ion Ratio Lower Upper

99 100

42 20.8 14.9 22.3

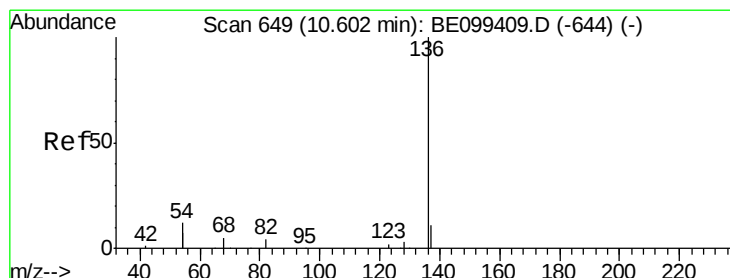
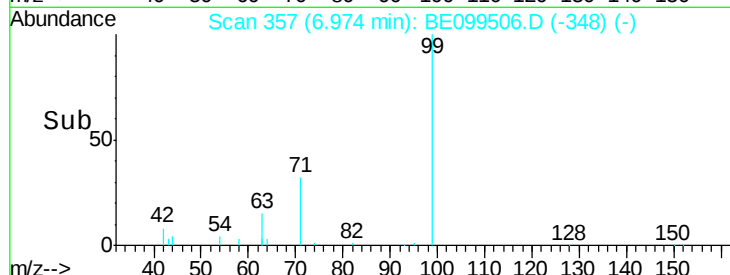
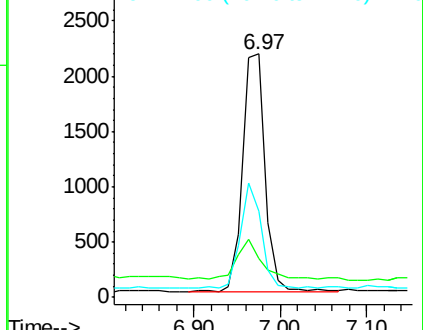
71 41.3 33.0 49.6



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: BE099506.D

Acq: 2 May 2019 22:55

Tgt Ion: 136 Resp: 8785

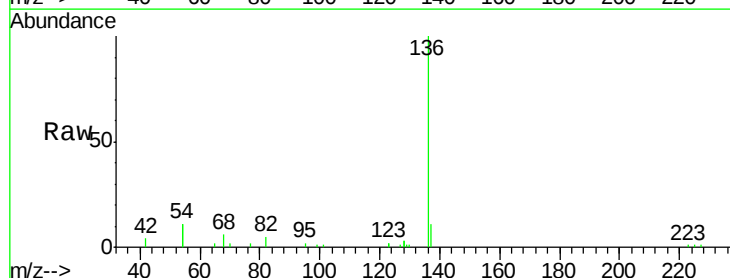
Ion Ratio Lower Upper

136 100

137 11.4 9.8 14.8

54 21.2 18.5 27.7

68 5.7 4.7 7.1

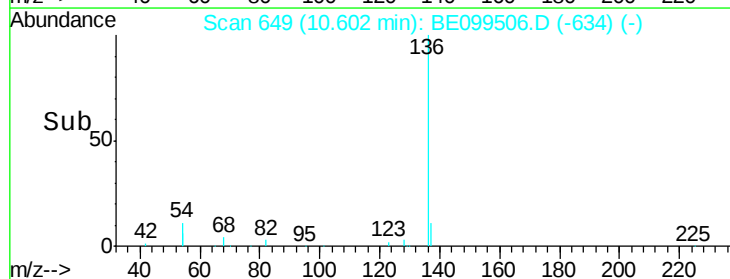
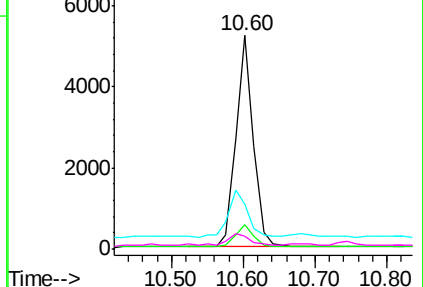


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.401 ng

RT: 8.97 min Scan# 523

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

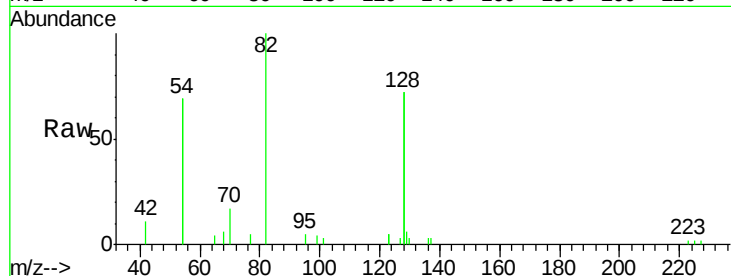
Tot Ion: 82 Resp: 3301

Ion Ratio Lower Upper

82 100

128 143.1 107.0 160.4

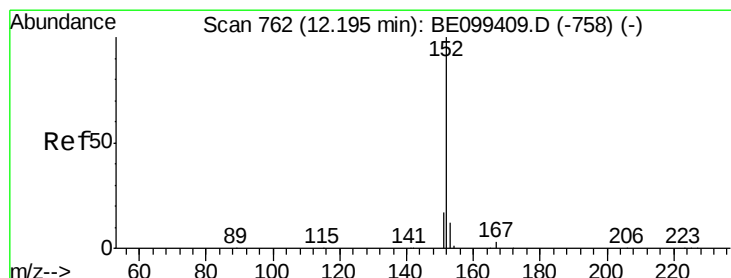
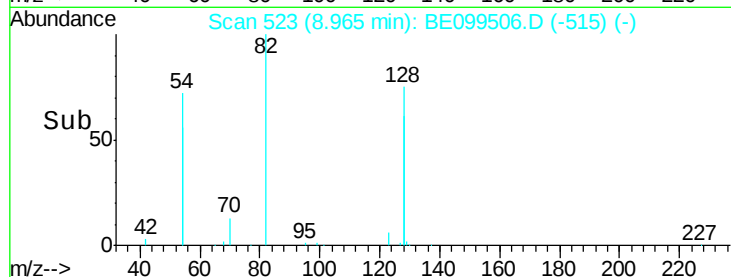
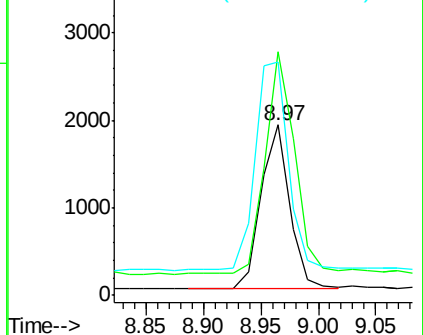
54 137.0 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE099409.D (-520) (-)

Ion 128.00 (127.70 to 128.70): BE099409.D (-520) (-)

Ion 54.00 (53.70 to 54.70): BE099409.D (-520) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.349 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099506.D

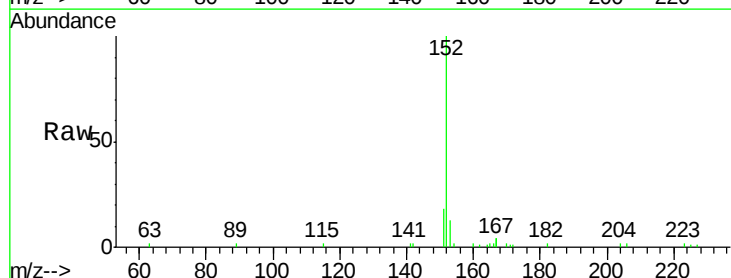
Acq: 2 May 2019 22:55

Tgt Ion: 152 Resp: 5529

Ion Ratio Lower Upper

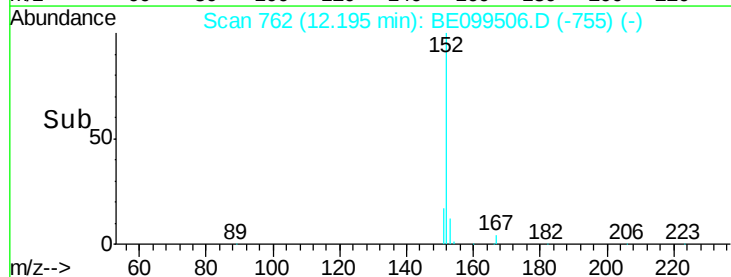
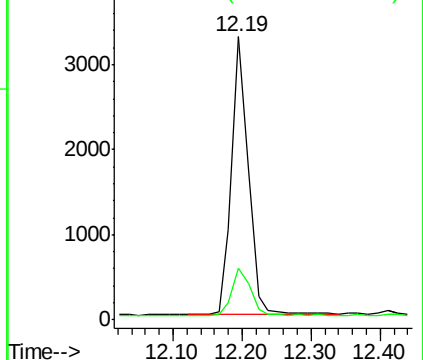
152 100

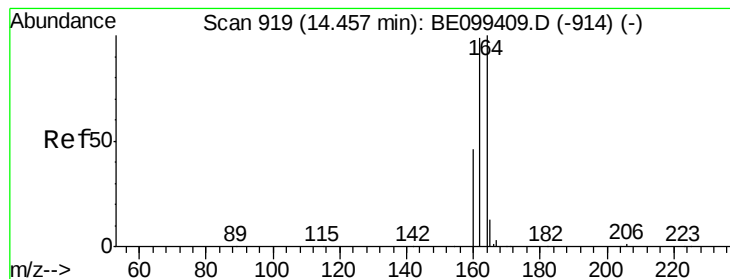
151 18.9 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE099409.D (-758) (-)

Ion 151.00 (150.70 to 151.70): BE099409.D (-758) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

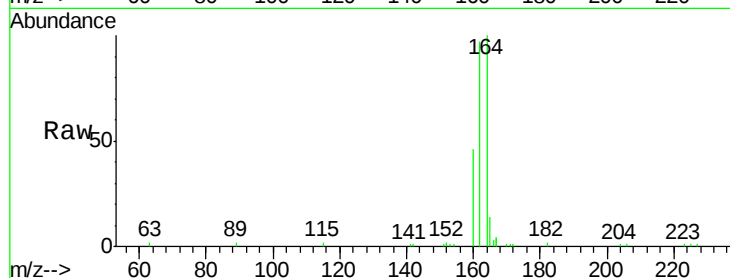
Tot Ion:164 Resp: 6545

Ion Ratio Lower Upper

164 100

162 96.5 79.0 118.4

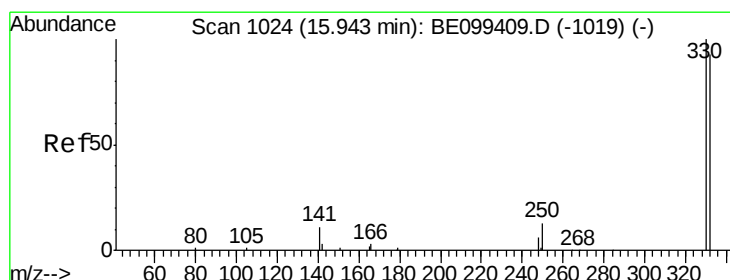
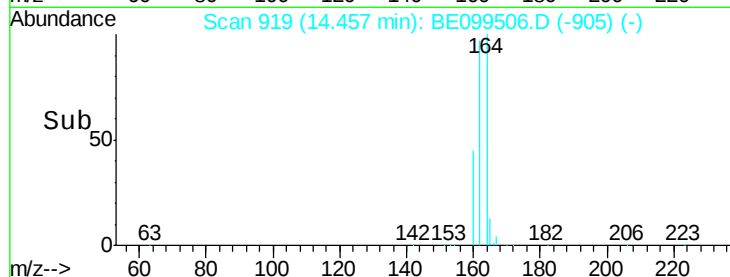
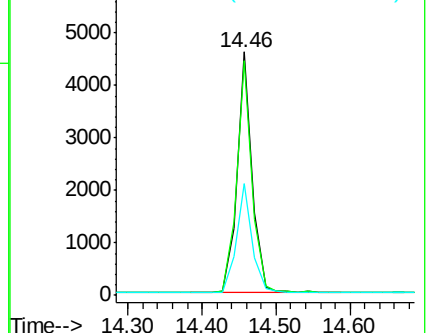
160 45.7 37.0 55.4



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: 0.445 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

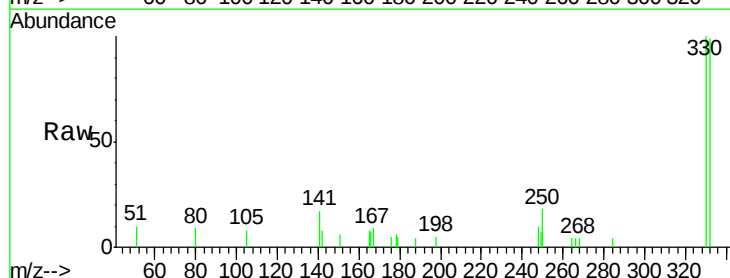
Tgt Ion:330 Resp: 1835

Ion Ratio Lower Upper

330 100

332 97.3 71.5 107.3

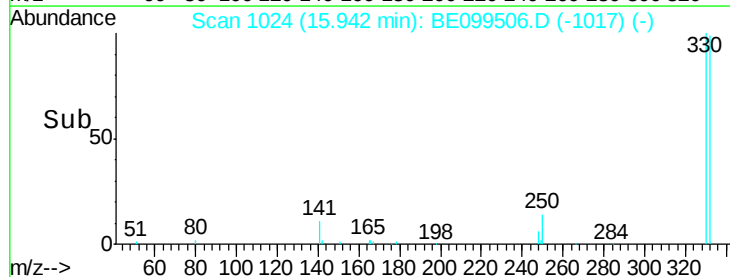
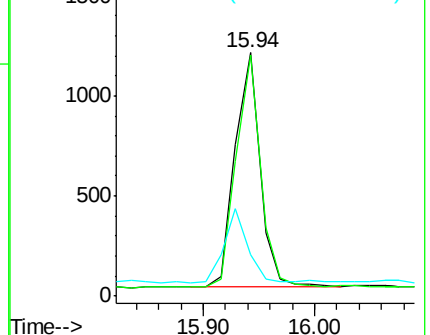
141 29.5 24.0 36.0

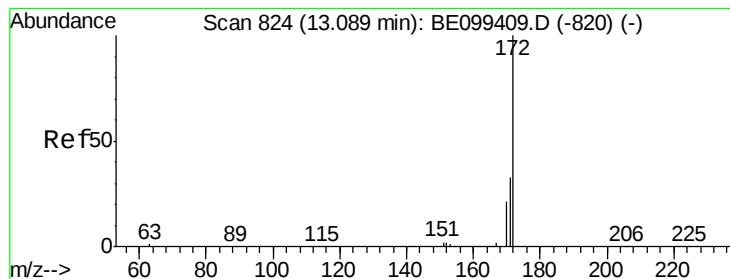


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.333 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE099506.D

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Instrument :

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ClientSampleId :

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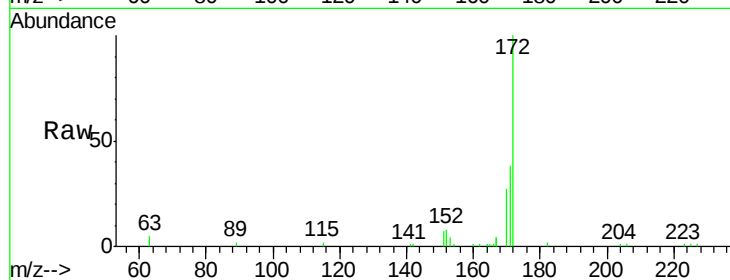
Tot Ion:172 Resp: 8304

Ion Ratio Lower Upper

172 100

171 37.6 26.6 39.8

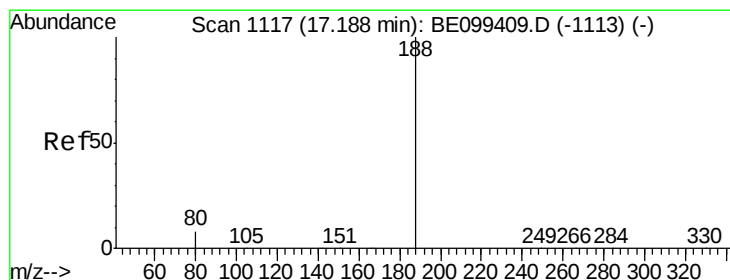
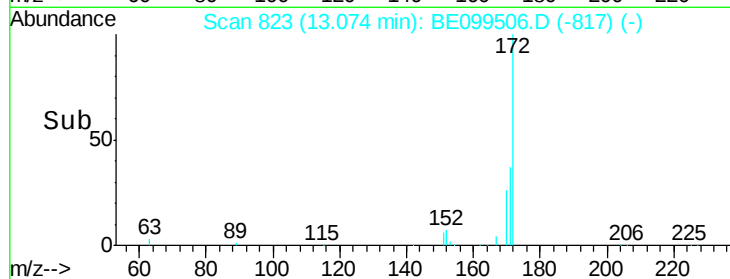
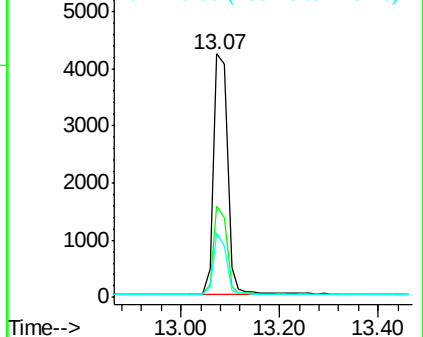
170 26.6 17.0 25.6#



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: BE099506.D

Acq: 2 May 2019 22:55

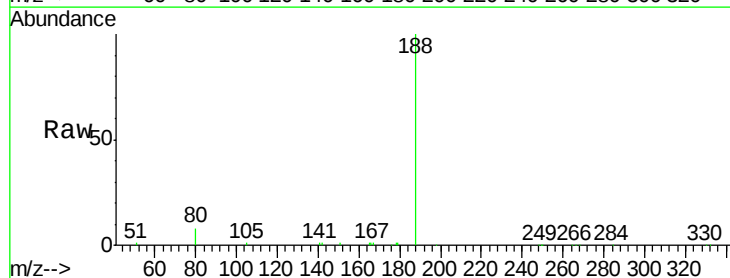
Tgt Ion:188 Resp: 20392

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

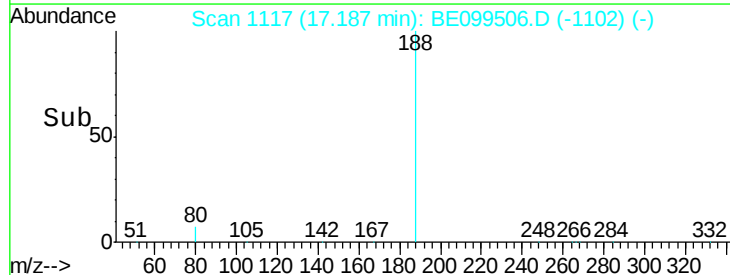
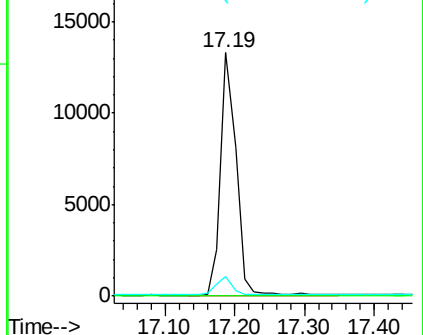
80 8.2 6.7 10.1

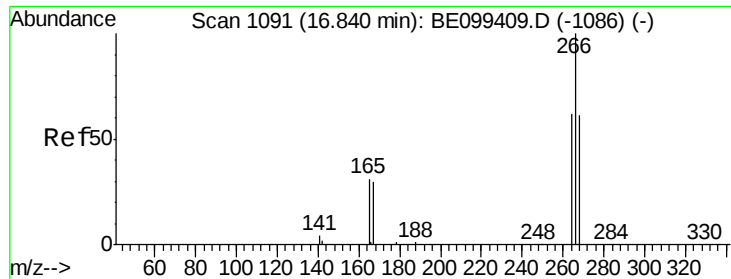


Abundance Ion 188.00 (187.70 to 188.70): E

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: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099506.D

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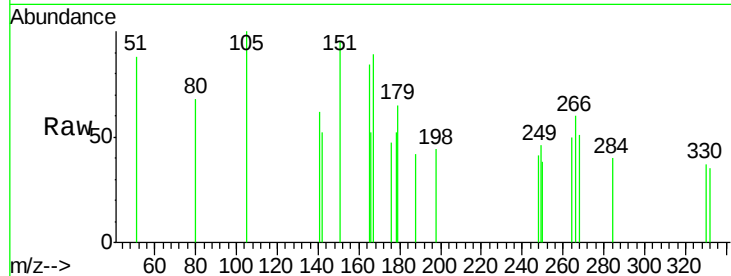
Tot Ion:266 Resp: 69

Ion Ratio Lower Upper

266 100

264 83.3 50.8 76.2#

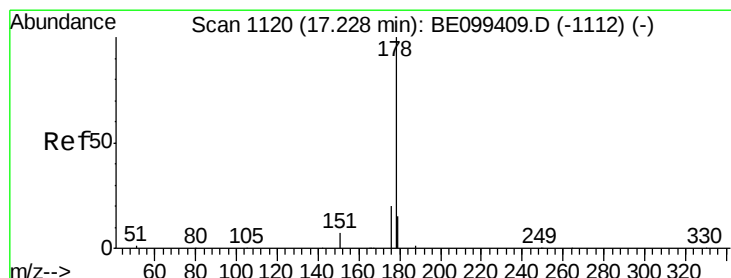
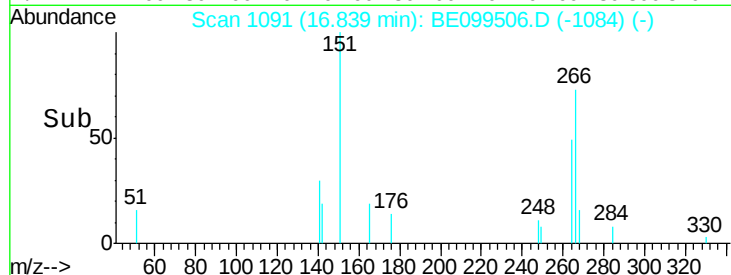
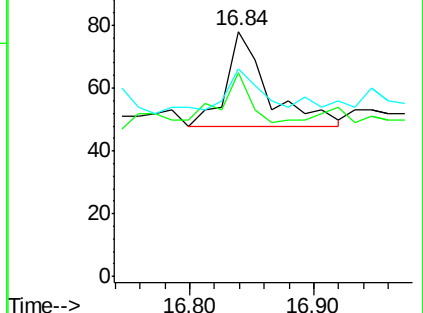
268 84.6 50.5 75.7#



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: 0.072 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

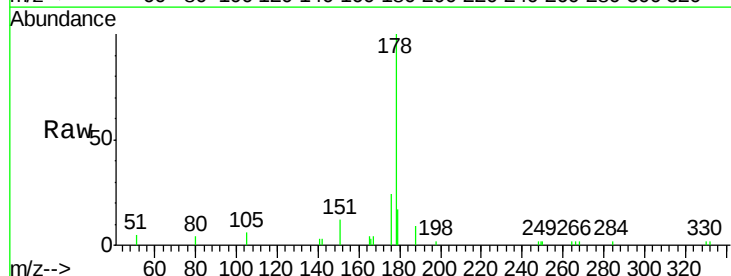
Tgt Ion:178 Resp: 3764

Ion Ratio Lower Upper

178 100

176 21.8 15.6 23.4

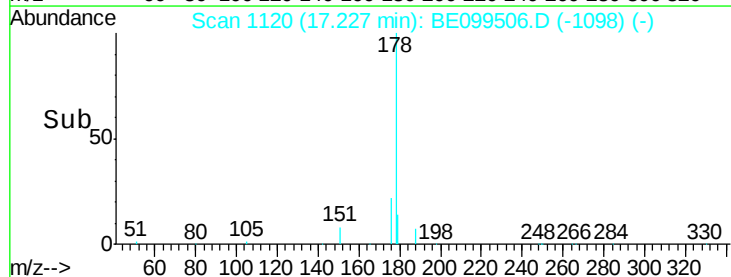
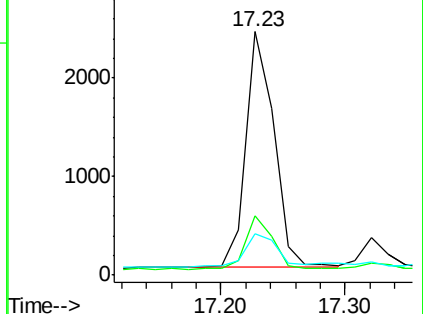
179 17.0 12.0 18.0

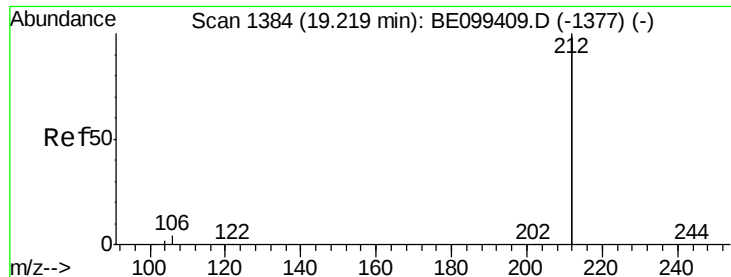


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.335 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099506.D

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Instrument :

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ClientSampleId :

PST-001-B190-042419

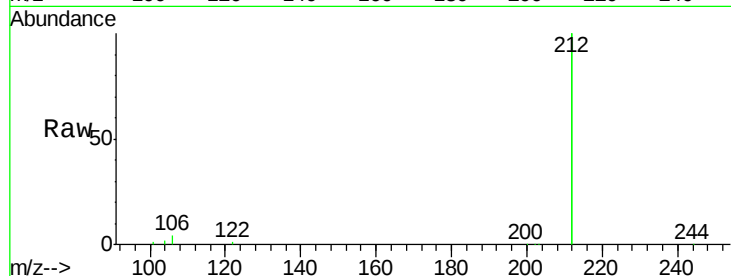
Tot Ion:212 Resp: 91986

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

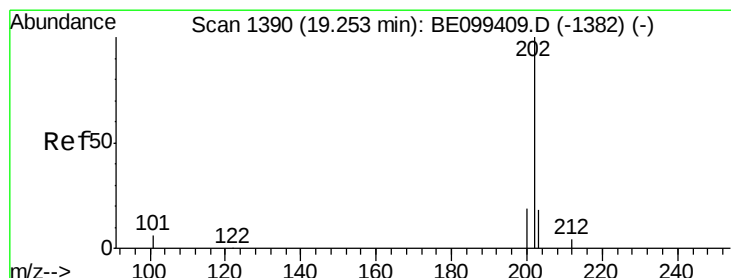
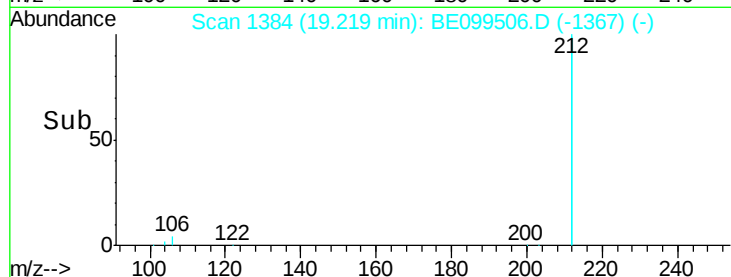
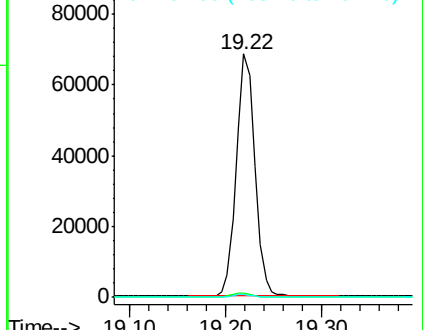
104 1.1 0.9 1.3



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: 0.142 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

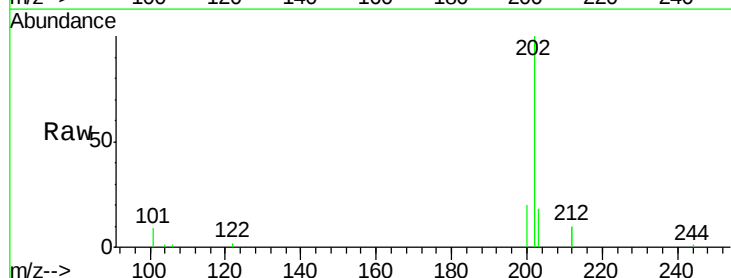
Tgt Ion:202 Resp: 11220

Ion Ratio Lower Upper

202 100

101 8.1 5.4 8.0#

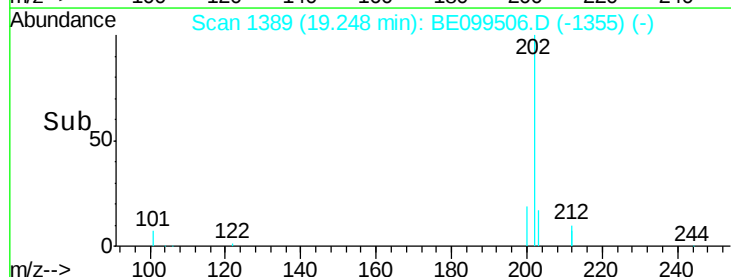
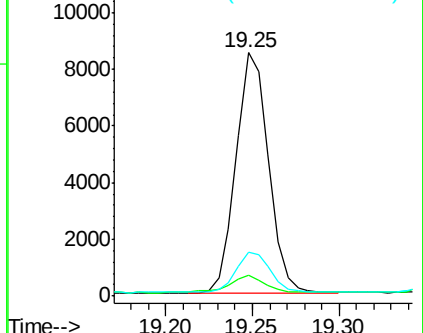
203 17.4 13.9 20.9

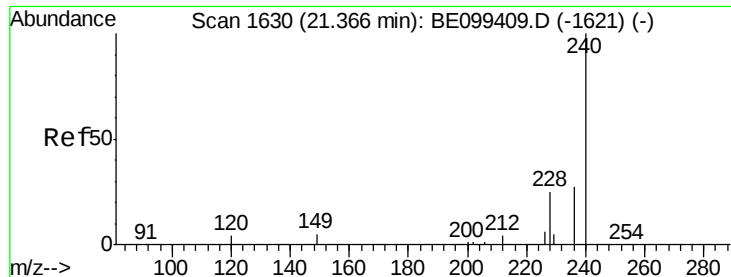


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

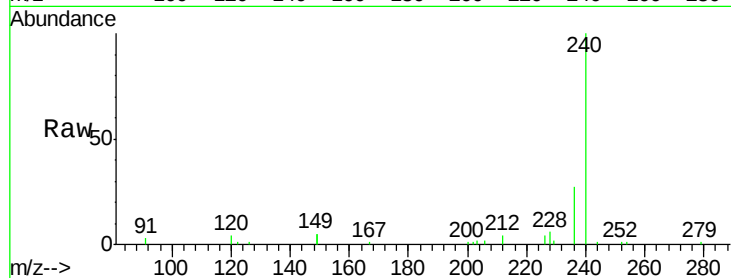
Tot Ion:240 Resp: 26194

Ion Ratio Lower Upper

240 100

120 3.9 4.0 6.0#

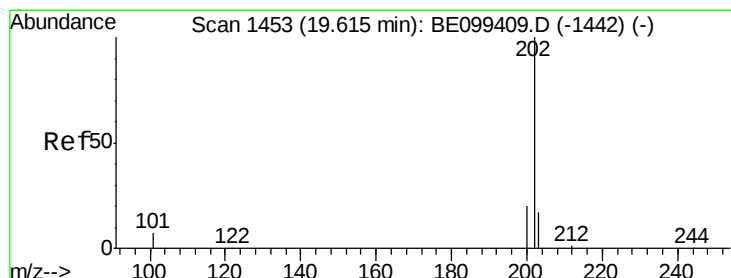
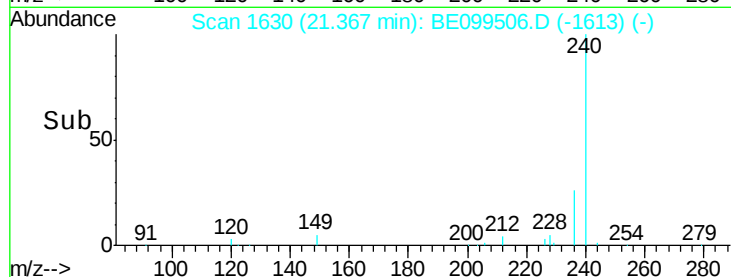
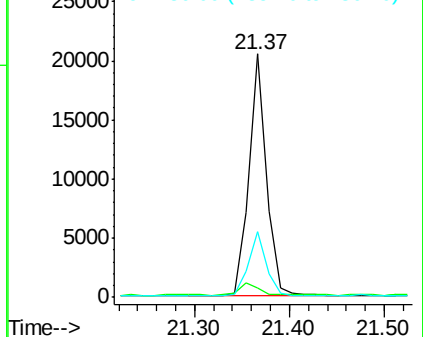
236 26.9 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.169 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

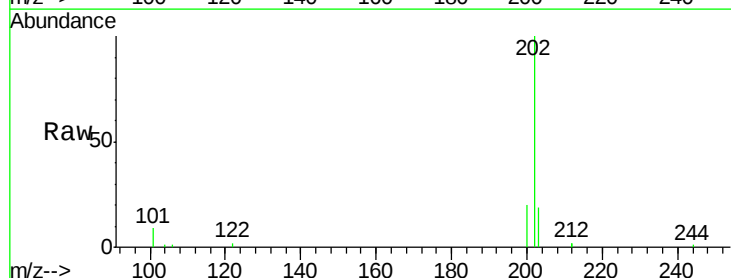
Tgt Ion:202 Resp: 11553

Ion Ratio Lower Upper

202 100

200 20.3 15.7 23.5

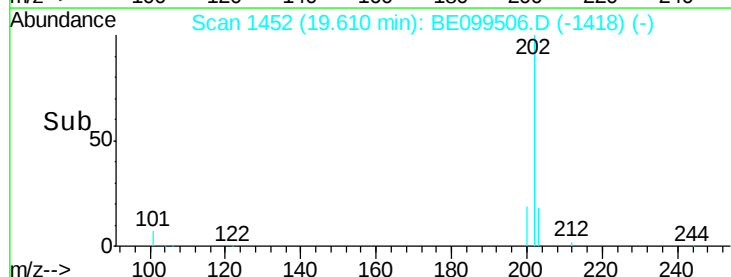
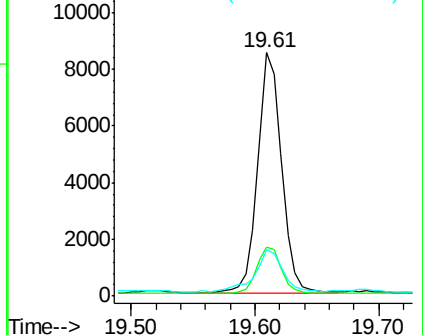
203 20.6 13.9 20.9

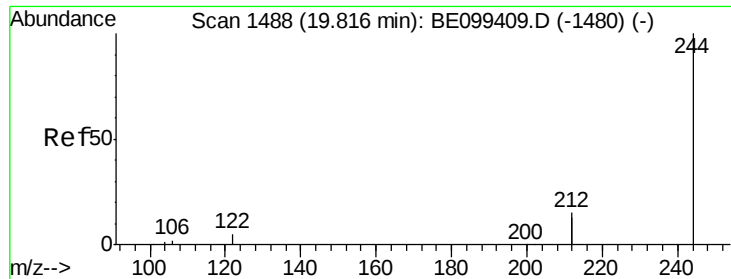


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.379 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

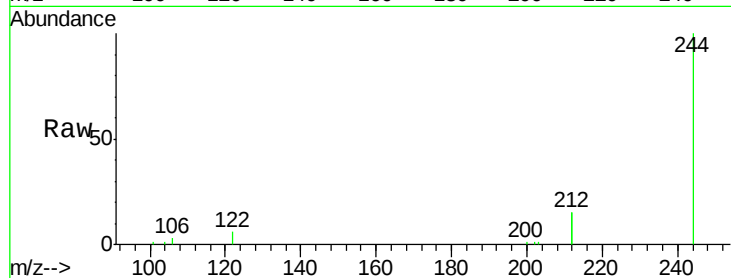
Tot Ion:244 Resp: 18197

Ion Ratio Lower Upper

244 100

212 29.4 23.2 34.8

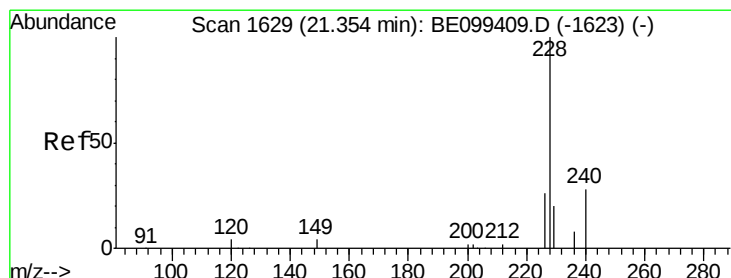
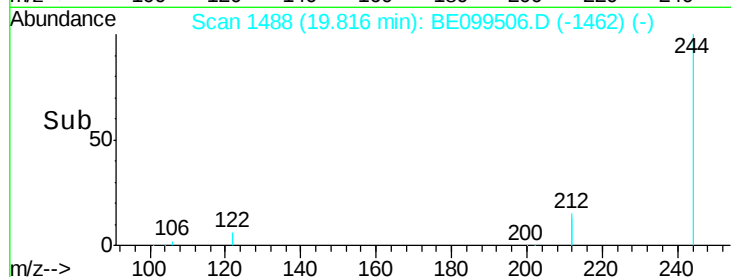
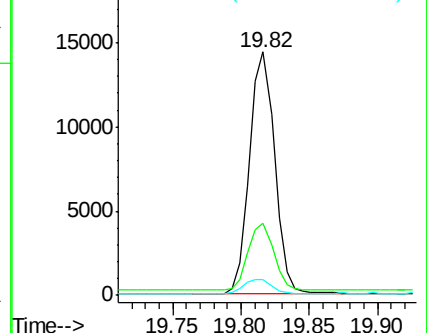
122 6.4 4.2 6.4#



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: 0.085 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

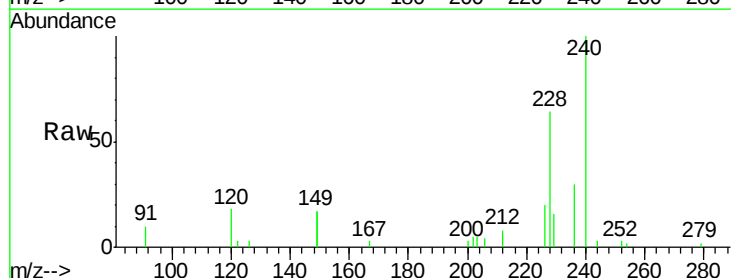
Tgt Ion:228 Resp: 7076

Ion Ratio Lower Upper

228 100

226 32.1 21.0 31.6#

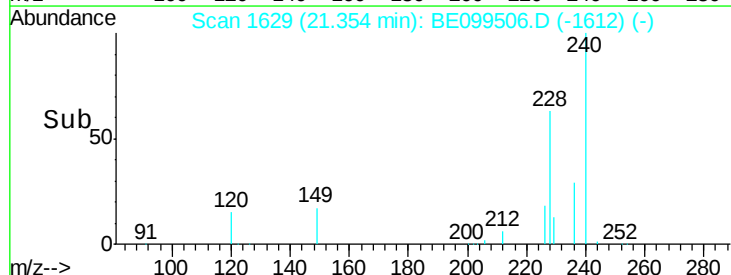
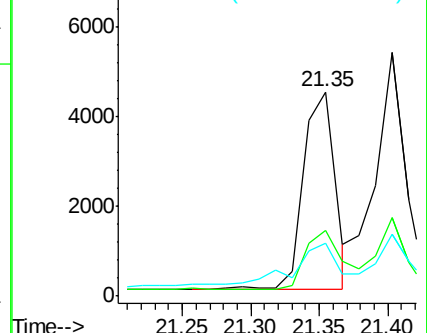
229 25.7 16.6 25.0#

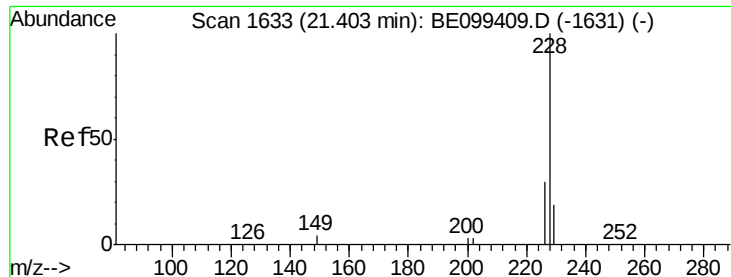


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.088 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

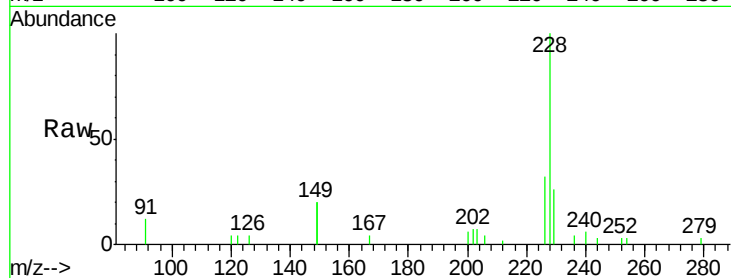
Tot Ion:228 Resp: 7210

Ion Ratio Lower Upper

228 100

226 32.5 24.0 36.0

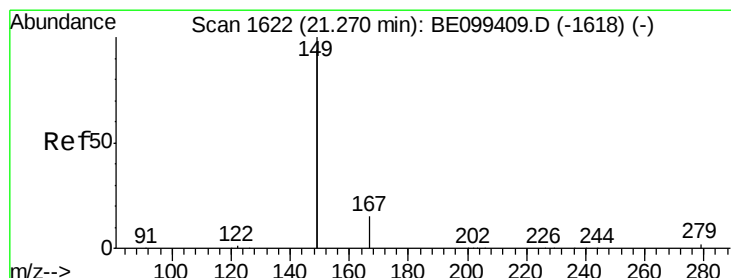
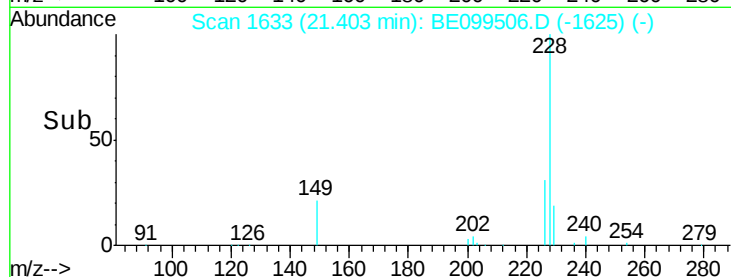
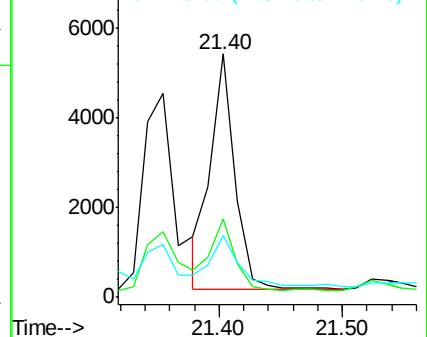
229 25.7 15.8 23.8#



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: 0.034 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

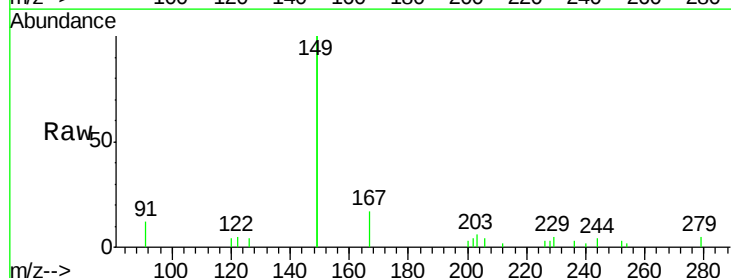
Tgt Ion:149 Resp: 12405

Ion Ratio Lower Upper

149 100

167 6.7 5.8 8.6

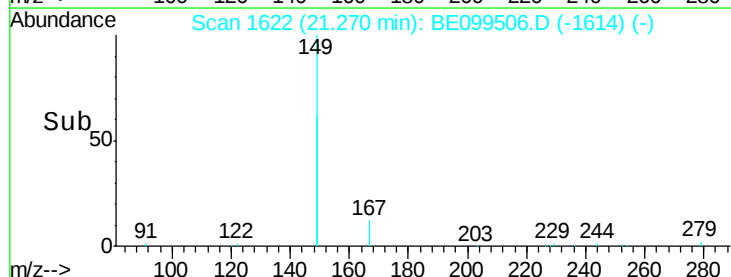
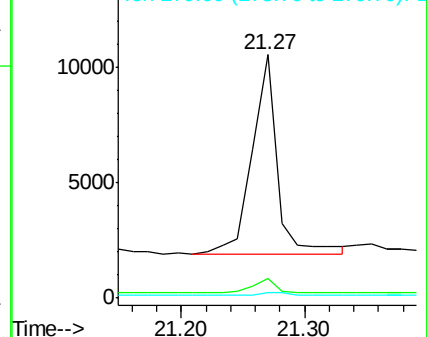
279 1.6 1.0 1.6#

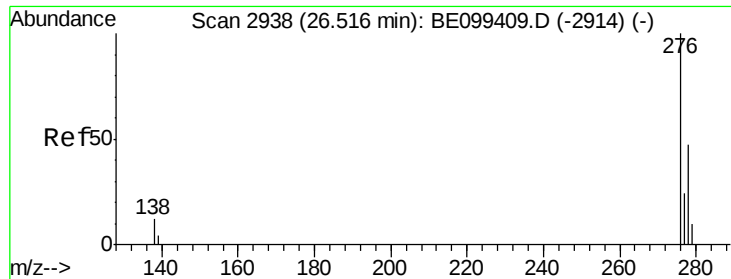


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.050 ng

RT: 26.52 min Scan# 2938

Delta R.T. -0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

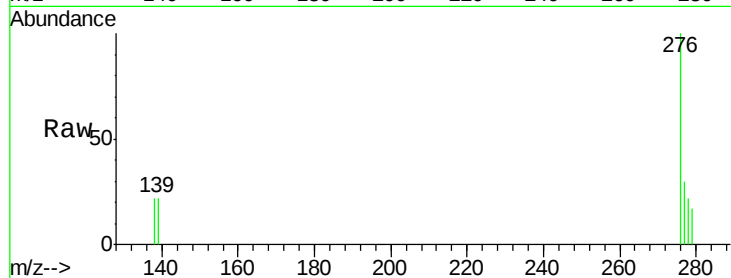
Tot Ion:276 Resp: 4815

Ion Ratio Lower Upper

276 100

138 16.6 10.2 15.2#

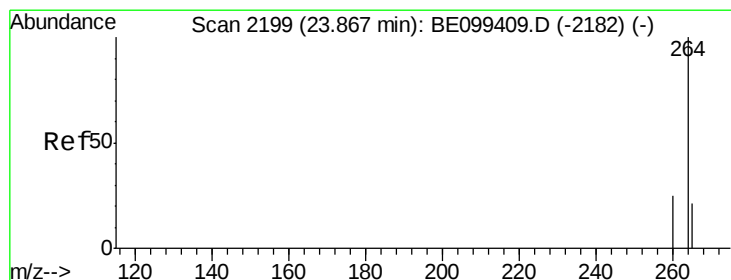
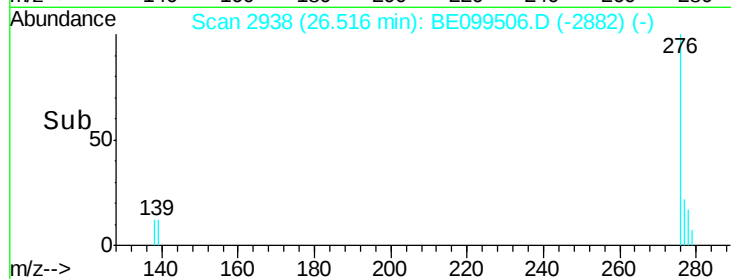
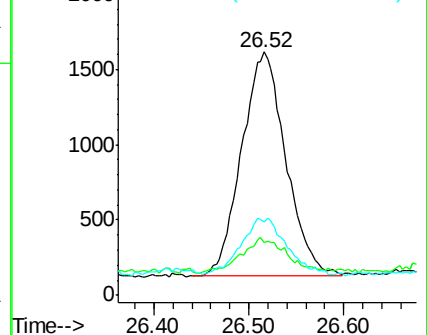
277 26.0 19.2 28.8



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: 23.87 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

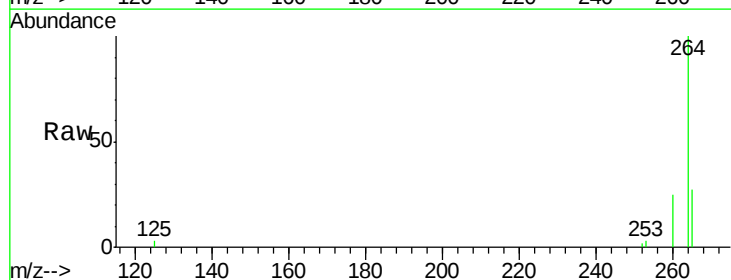
Tgt Ion:264 Resp: 30649

Ion Ratio Lower Upper

264 100

260 25.4 20.2 30.2

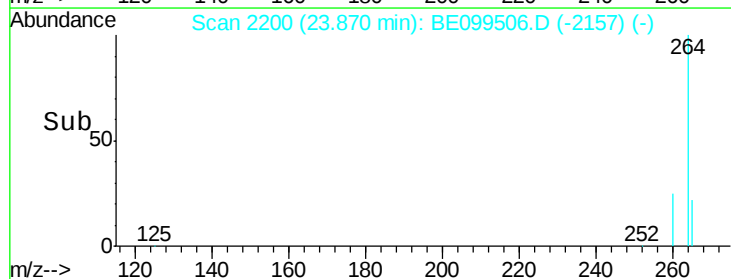
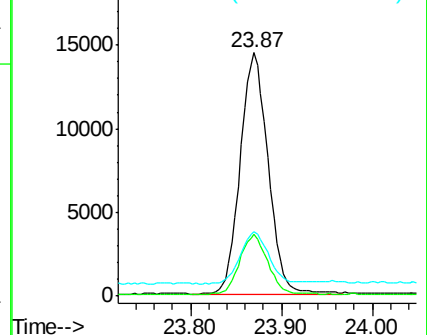
265 26.6 21.3 31.9

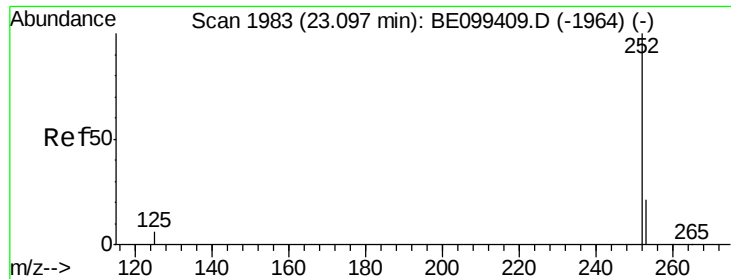


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.121 ng

RT: 23.10 min Scan# 1983

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

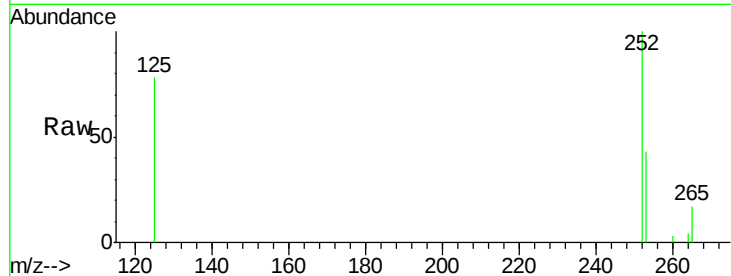
Tot Ion:252 Resp: 10692

Ion Ratio Lower Upper

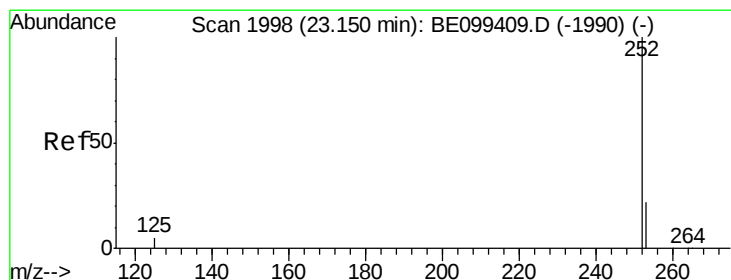
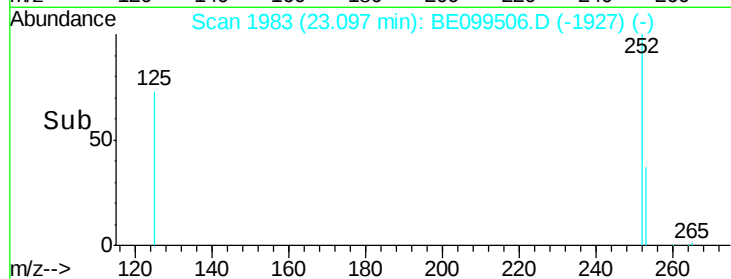
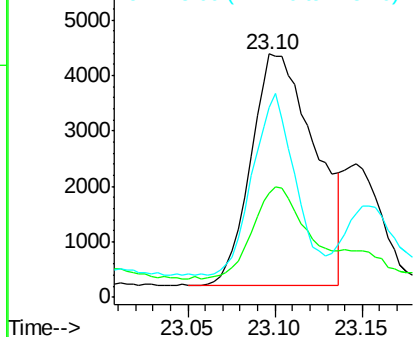
252 100

253 42.6 18.1 27.1#

125 78.0 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: 0.125 ng

RT: 23.10 min Scan# 1983

Delta R.T. -0.05 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

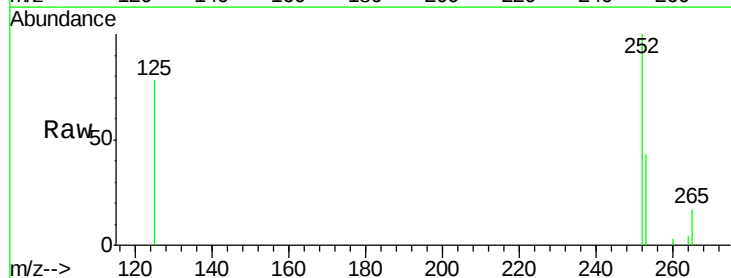
Tgt Ion:252 Resp: 10692

Ion Ratio Lower Upper

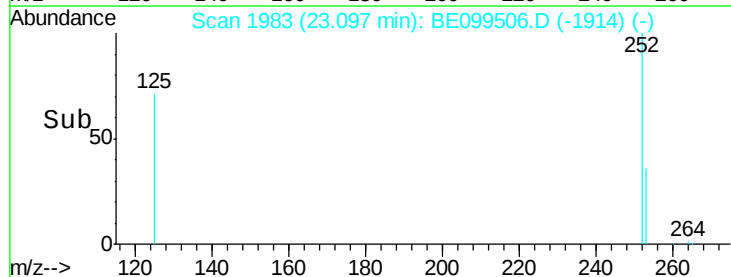
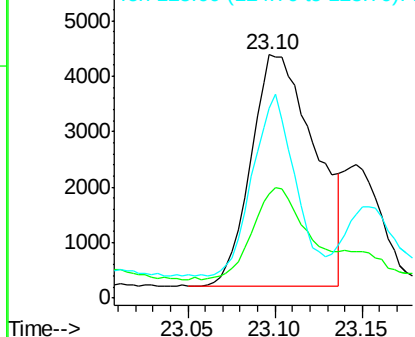
252 100

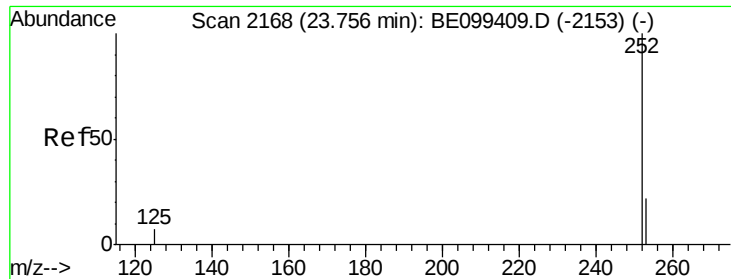
253 42.6 18.4 27.6#

125 78.0 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: 0.086 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

Instrument :

BNA_E

ClientSampleId :

PST-001-B190-042419

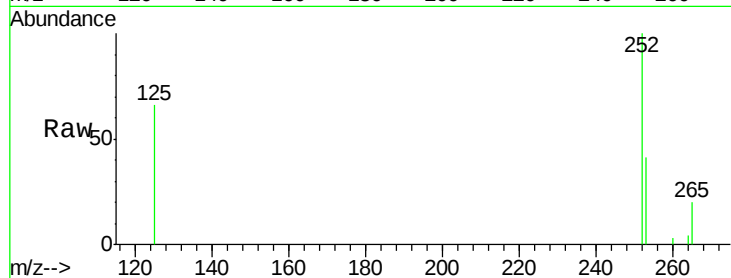
Tot Ion:252 Resp: 7174

Ion Ratio Lower Upper

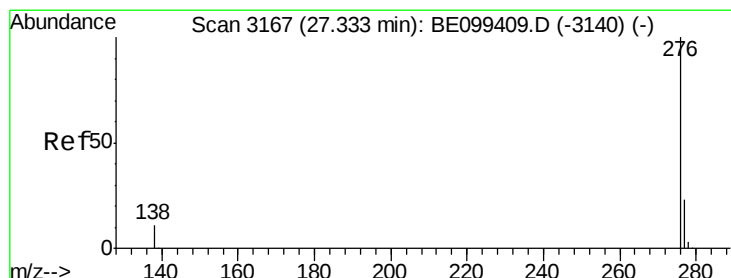
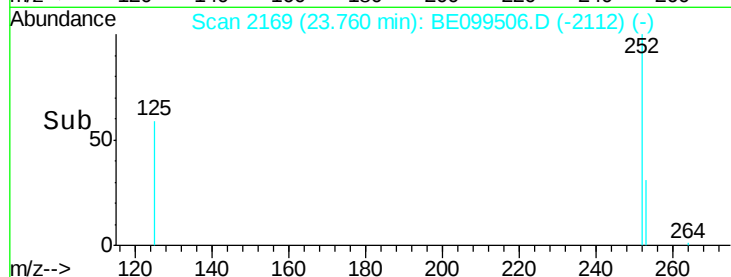
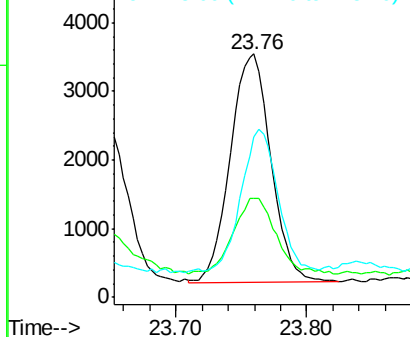
252 100

253 40.7 18.9 28.3#

125 65.7 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: 0.058 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099506.D

Acq: 2 May 2019 22:55

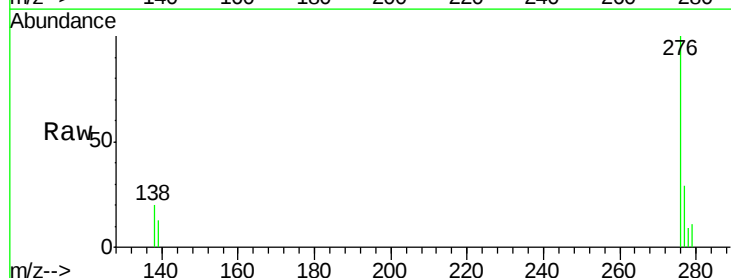
Tgt Ion:276 Resp: 4967

Ion Ratio Lower Upper

276 100

277 28.8 19.5 29.3

138 20.1 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

