

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099402.D
 Acq On : 27 Apr 2019 6:07
 Operator : JU/SJ
 Sample : K2533-01
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-028-B001-042219

Quant Time: Apr 29 00:57:31 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 19 06:51:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	3456	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	14210	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	10649	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29021	0.40	ng	0.01
27) Chrysene-d12	21.36	240	31998	0.40	ng	0.00
34) Perylene-d12	23.88	264	35863	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	3708	0.44	ng	0.01
5) Phenol-d6	6.98	99	5377	0.45	ng	0.00
8) Nitrobenzene-d5	8.98	82	4912	0.45	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	8888	0.35	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2294	0.65	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	12897	0.31	ng	0.00
25) Fluoranthene-d10	19.23	212	113359	0.33	ng	0.00
29) Terphenyl-d14	19.82	244	19086	0.30	ng	0.00

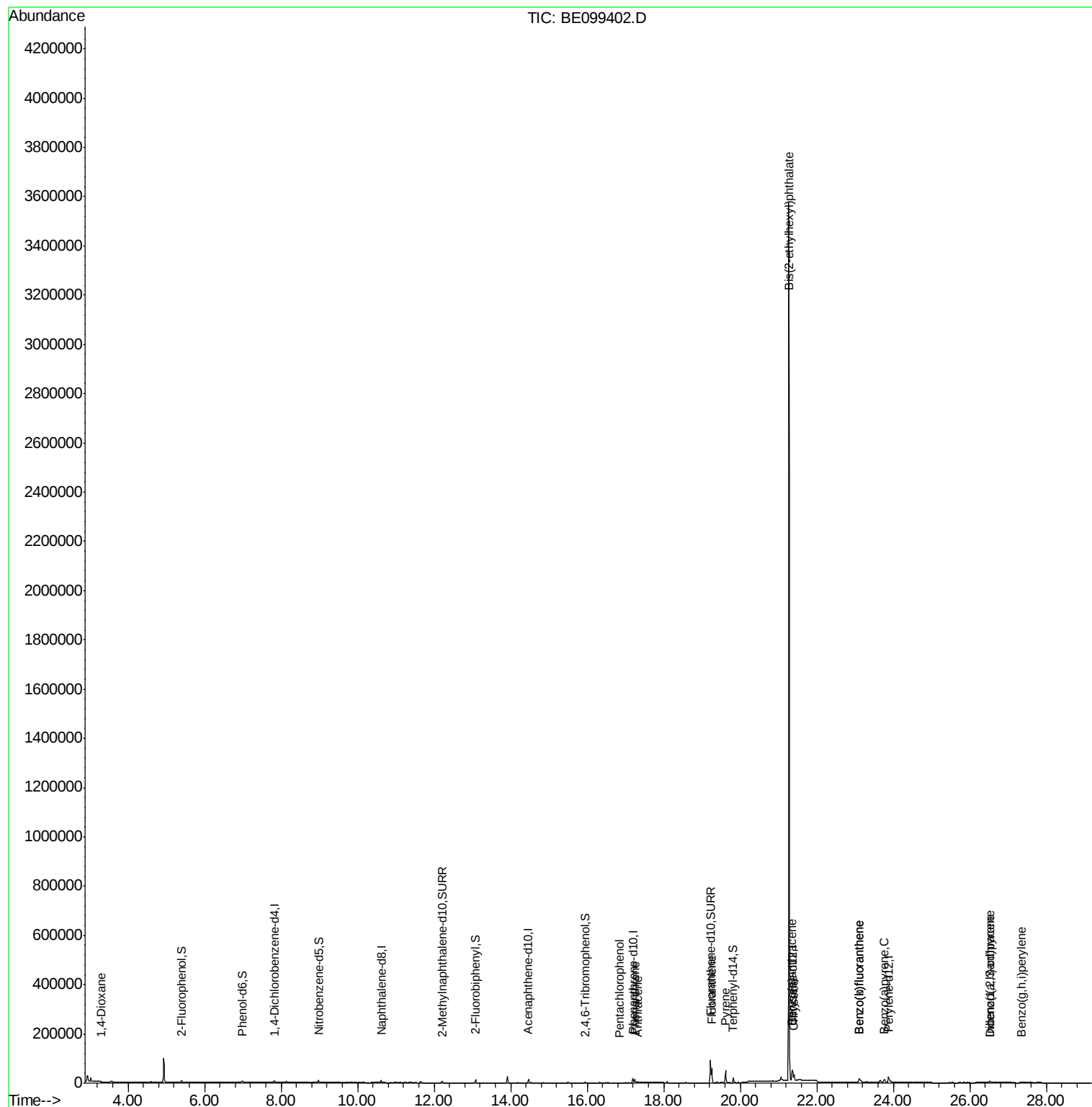
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.29	88	128	0.026	ng	# 18
22) Pentachlorophenol	16.84	266	22	0.224	ng	# 78
23) Phenanthrene	17.24	178	16610	0.216	ng	# 99
24) Anthracene	17.32	178	4389	0.064	ng	# 95
26) Fluoranthene	19.25	202	51623	0.502	ng	# 98
28) Pyrene	19.62	202	47269	0.501	ng	# 94
30) Benzo(a)anthracene	21.35	228	32740	0.348	ng	# 96
31) Chrysene	21.40	228	25278	0.252	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.27	149	4300824	50.246	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.52	276	10581	0.107	ng	# 86
35) Benzo(b)fluoranthene	23.11	252	28425	0.259	ng	# 84
36) Benzo(k)fluoranthene	23.11	252	28442	0.260	ng	# 87
37) Benzo(a)pyrene	23.76	252	22262	0.226	ng	# 86
38) Dibenzo(a,h)anthracene	26.54	278	2963	0.029	ng	# 20
39) Benzo(g,h,i)perylene	27.35	276	9572	0.094	ng	# 84

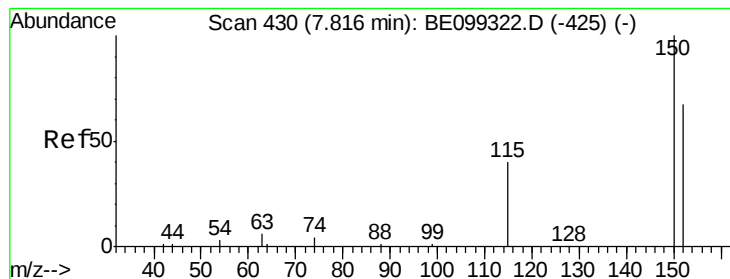
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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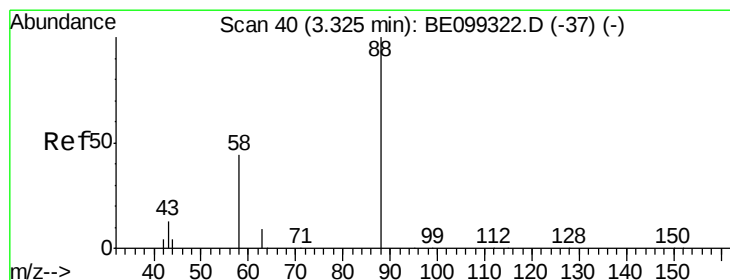
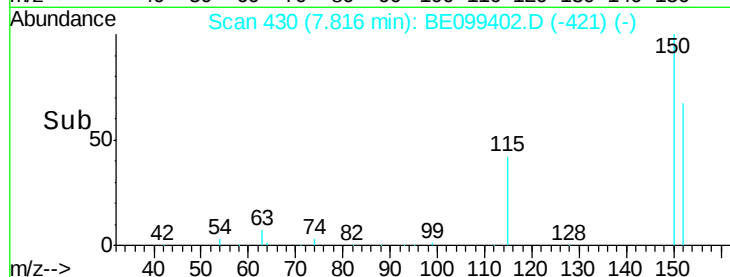
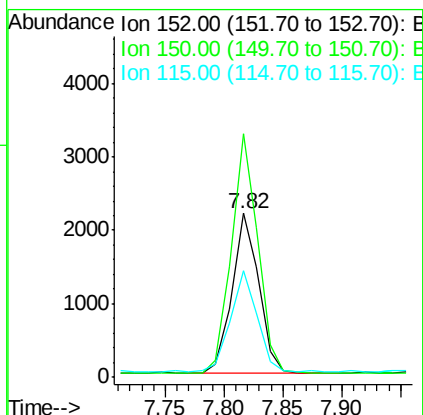
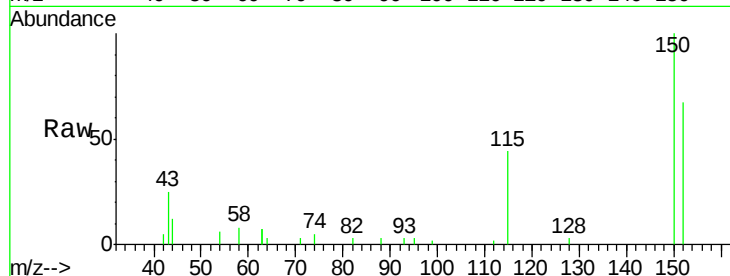


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099402.D
Acq: 27 Apr 2019 6:07

Instrument :
BNA_E
ClientSampleId :
PST-028-B001-042219

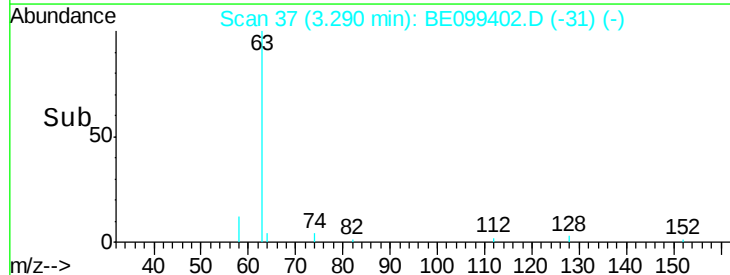
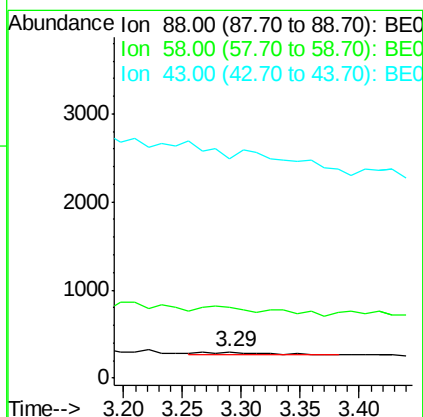
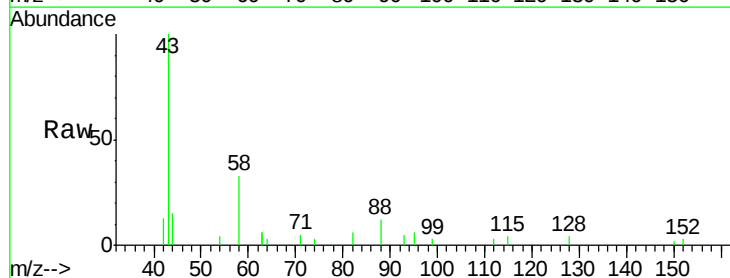
Tot Ion:152 Resp: 3456
Ion Ratio Lower Upper
152 100
150 148.6 119.5 179.3
115 65.4 47.5 71.3

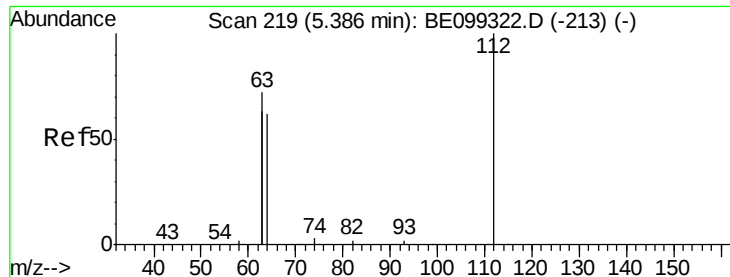


#2

1,4-Dioxane
Concen: 0.026 ng
RT: 3.29 min Scan# 37
Delta R.T. -0.03 min
Lab File: BE099402.D
Acq: 27 Apr 2019 6:07

Tgt Ion: 88 Resp: 128
Ion Ratio Lower Upper
88 100
58 133.6 49.1 73.7#
43 0.0 17.9 26.9#





#4

2-Fluorophenol

Concen: 0.439 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

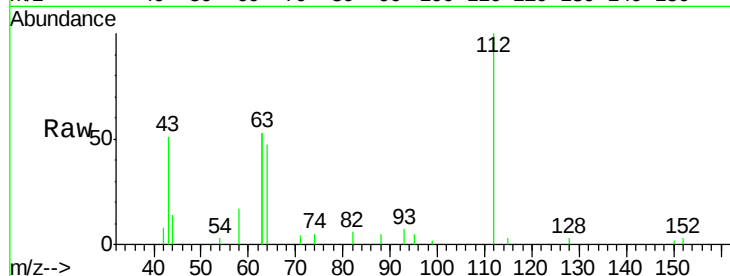
Tot Ion:112 Resp: 3708

Ion Ratio Lower Upper

112 100

64 58.6 44.9 67.3

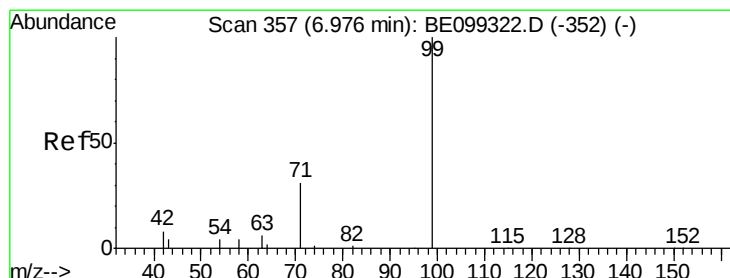
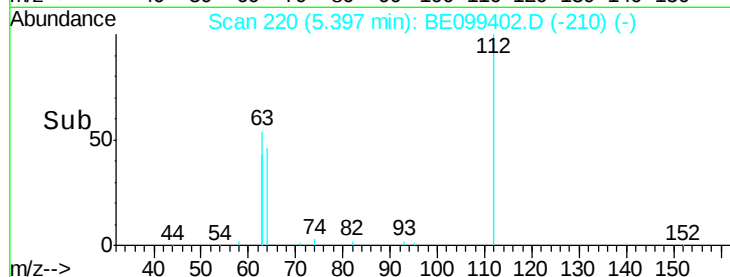
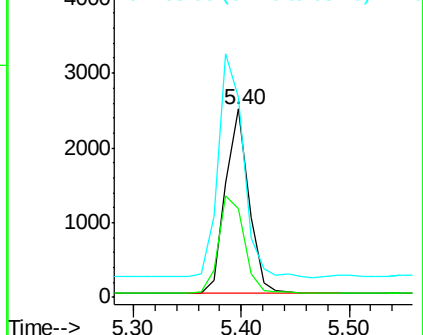
63 130.8 97.4 146.0



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: 0.446 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

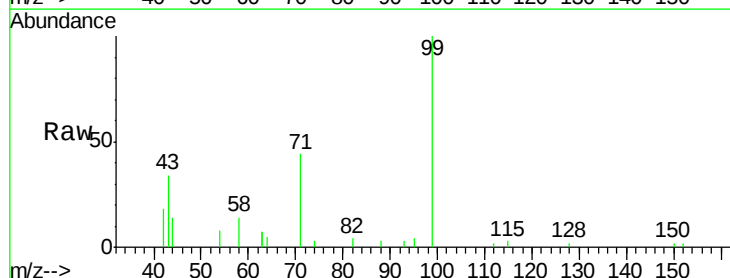
Tgt Ion: 99 Resp: 5377

Ion Ratio Lower Upper

99 100

42 18.4 11.7 17.5#

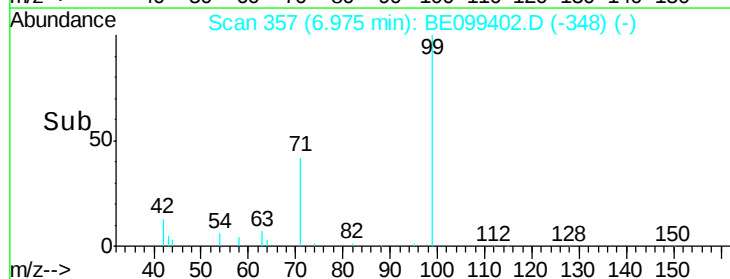
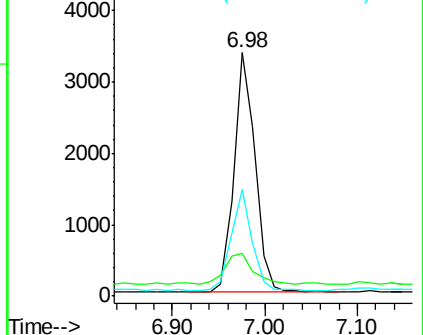
71 41.4 29.6 44.4

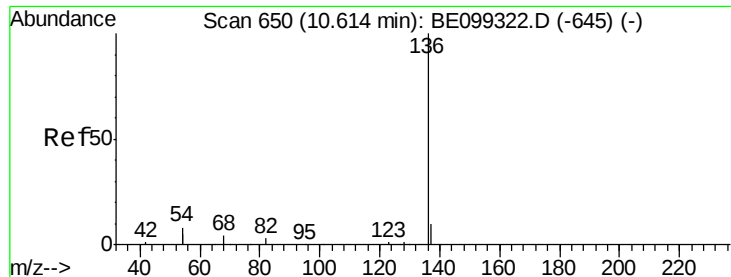


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

Tot Ion:136 Resp: 14210

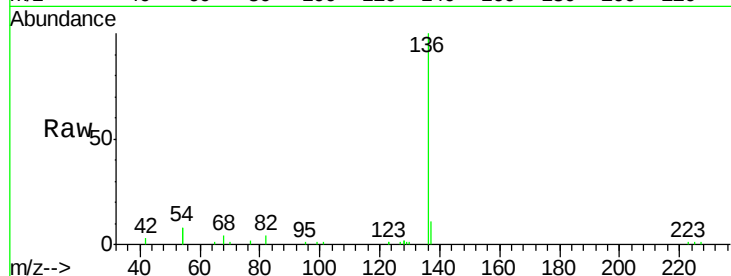
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 16.7 23.8 35.8#

68 4.0 6.4 9.6#

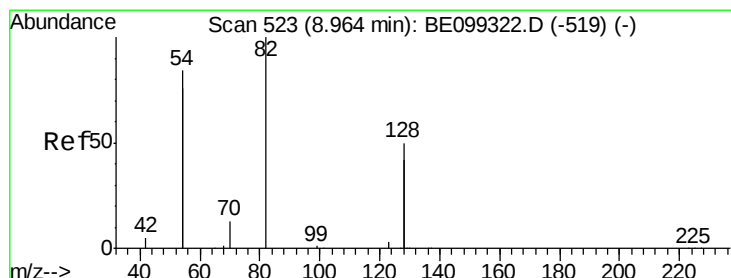
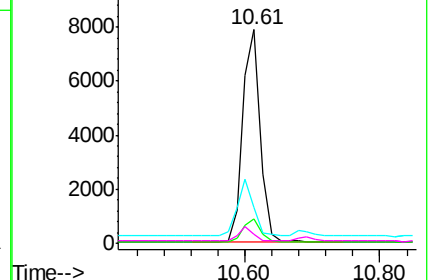
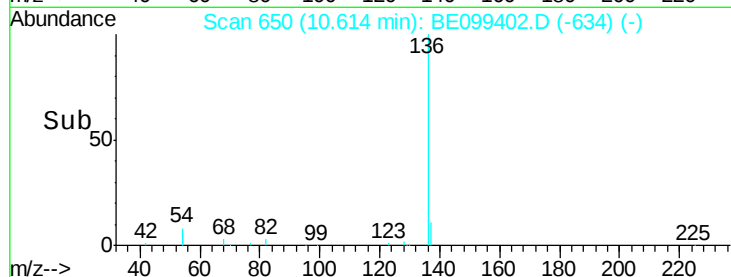


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.445 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

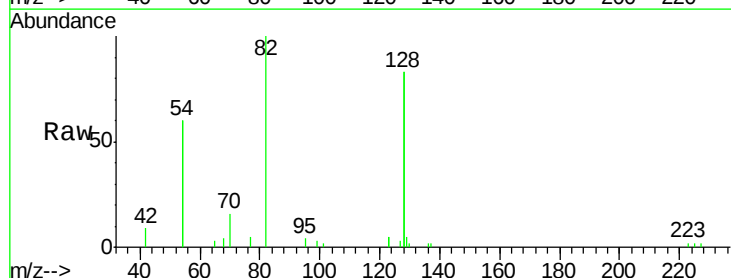
Tgt Ion: 82 Resp: 4912

Ion Ratio Lower Upper

82 100

128 166.3 91.7 137.5#

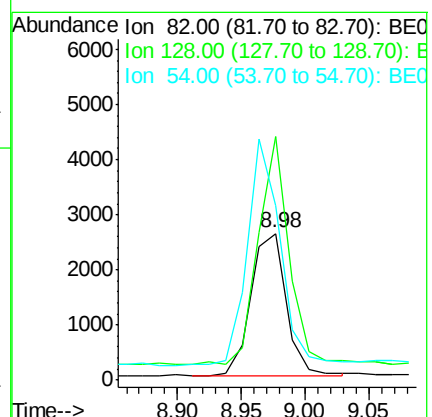
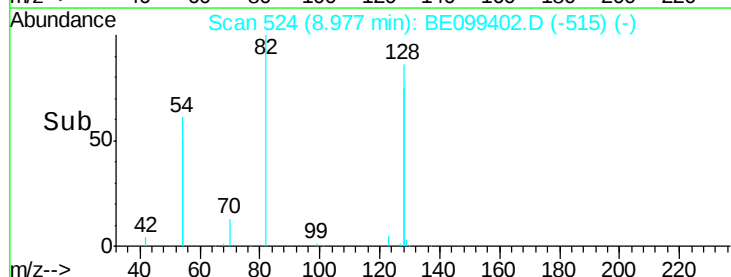
54 119.4 122.8 184.2#

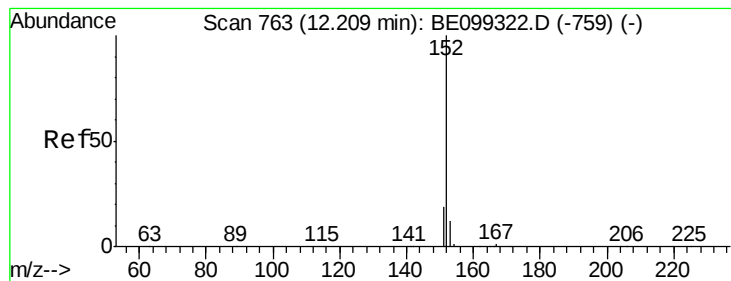


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

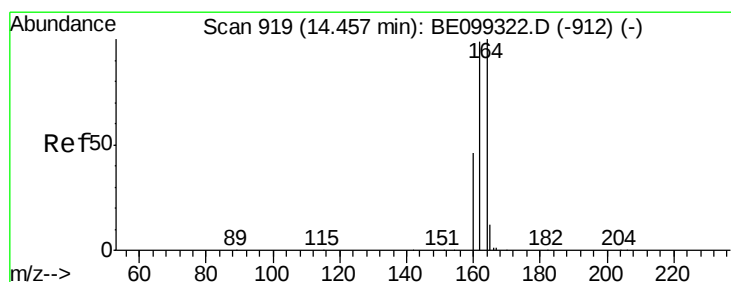
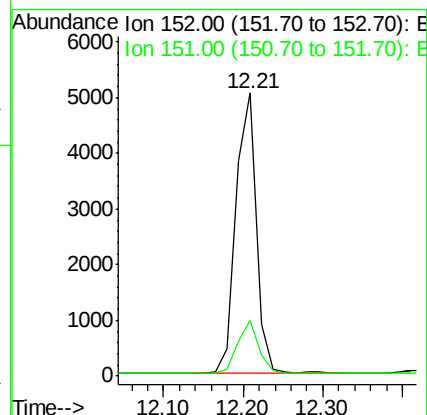
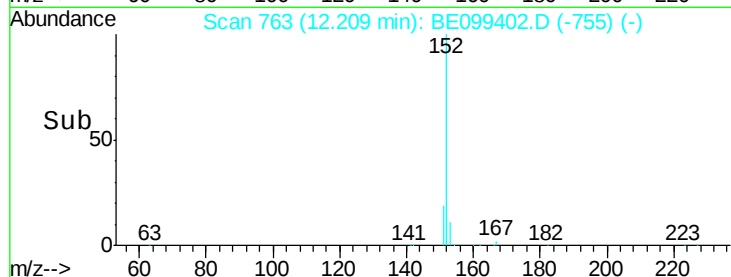
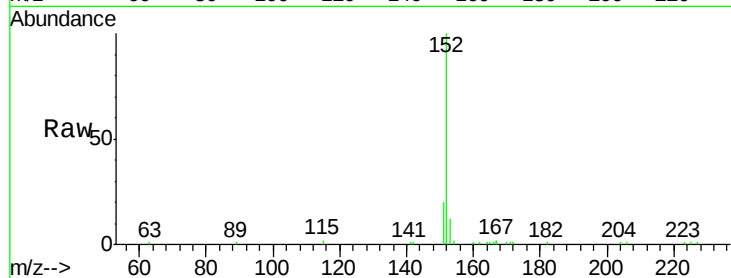




#11
 2-Methylnaphthalene-d10
 Concen: 0.354 ng
 RT: 12.21 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: BE099402.D
 Acq: 27 Apr 2019 6:07

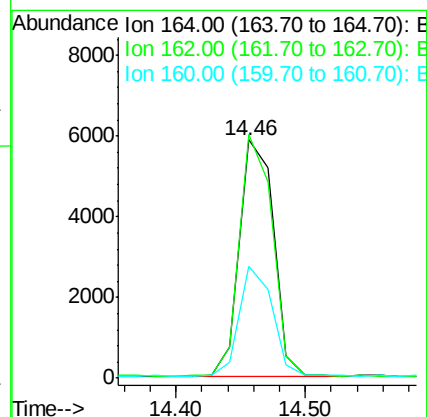
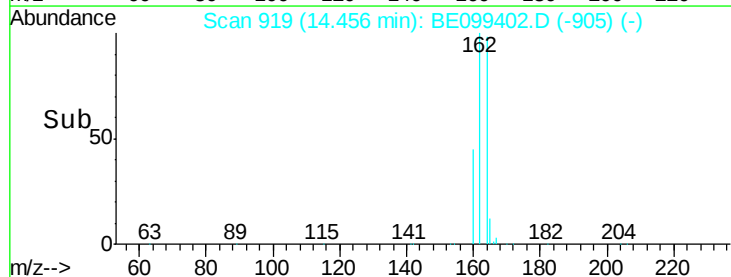
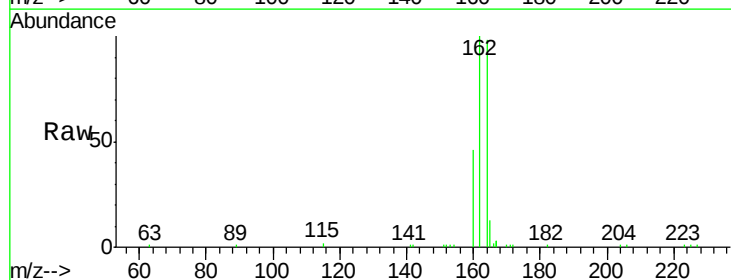
Instrument :
 BNA_E
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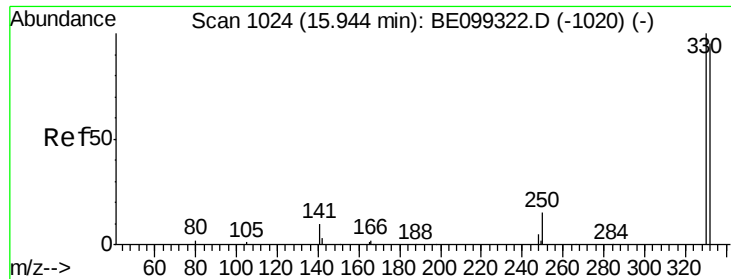
Tot Ion:152 Resp: 8888
 Ion Ratio Lower Upper
 152 100
 151 19.8 14.9 22.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099402.D
 Acq: 27 Apr 2019 6:07

Tgt Ion:164 Resp: 10649
 Ion Ratio Lower Upper
 164 100
 162 102.3 77.8 116.6
 160 46.8 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 0.649 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

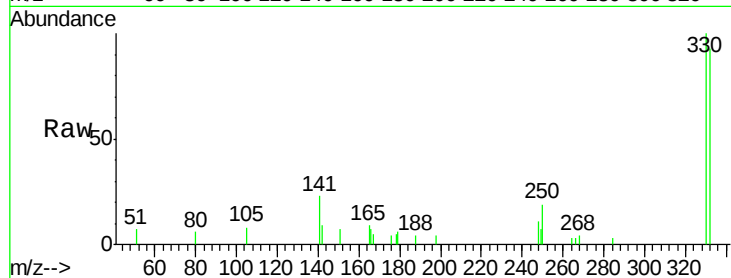
Tot Ion:330 Resp: 2294

Ion Ratio Lower Upper

330 100

332 95.2 82.5 123.7

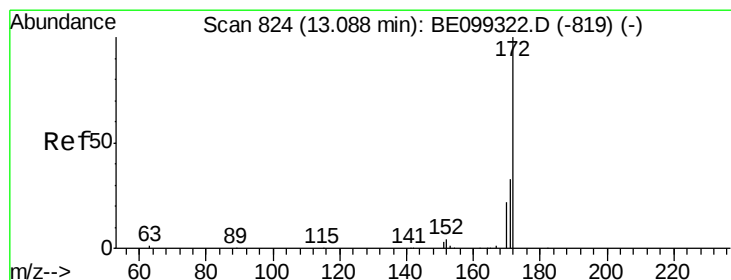
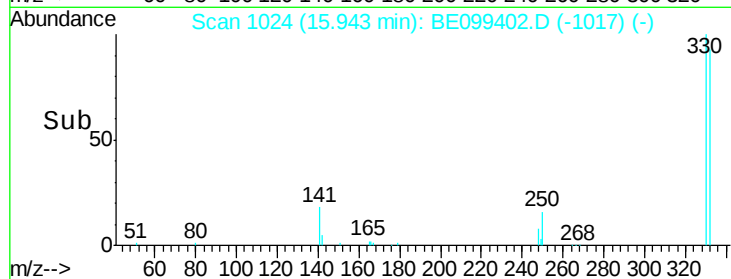
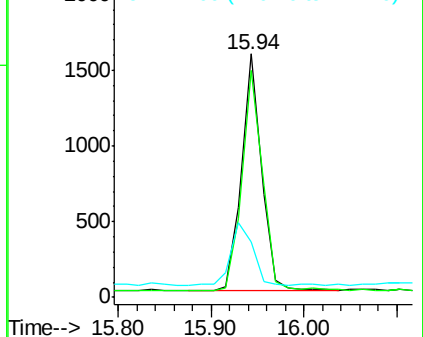
141 29.6 24.9 37.3



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: 0.308 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

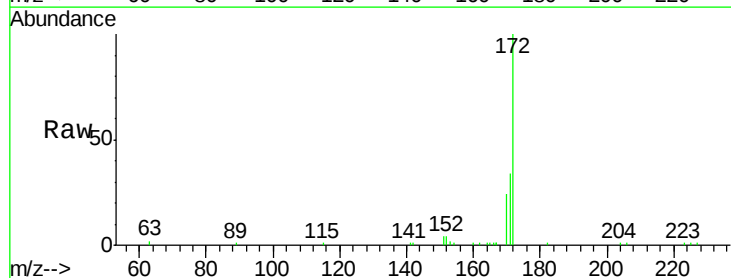
Tgt Ion:172 Resp: 12897

Ion Ratio Lower Upper

172 100

171 34.5 26.2 39.2

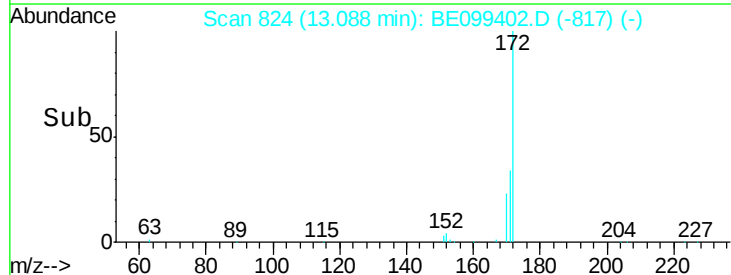
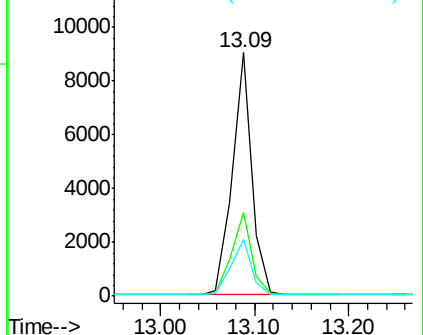
170 23.6 18.1 27.1

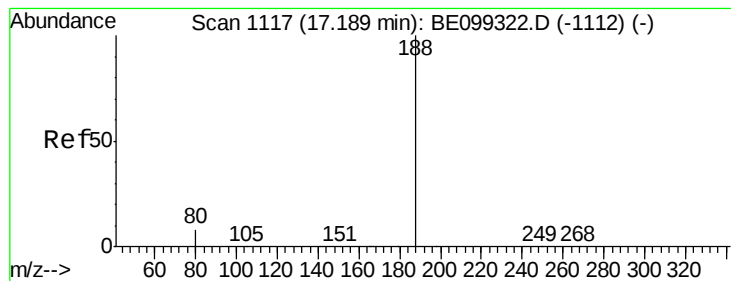


Abundance Ion 172.00 (171.70 to 172.70): E

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: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

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ClientSampleId :

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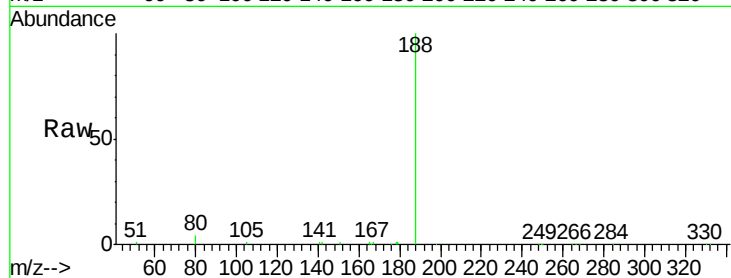
Tot Ion:188 Resp: 29021

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

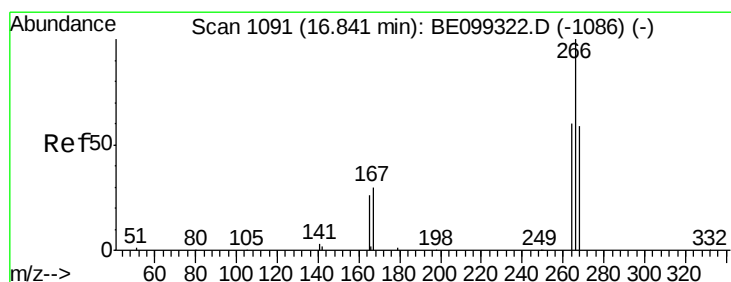
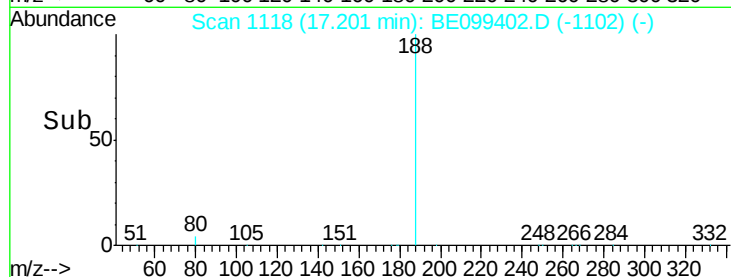
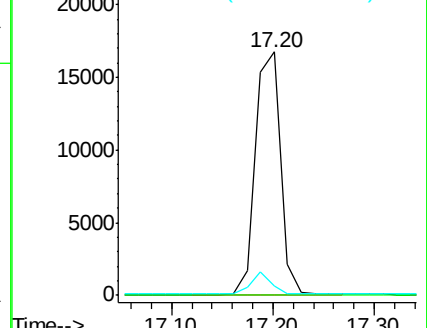
80 4.1 6.2 9.4#



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: BE099402.D

Acq: 27 Apr 2019 6:07

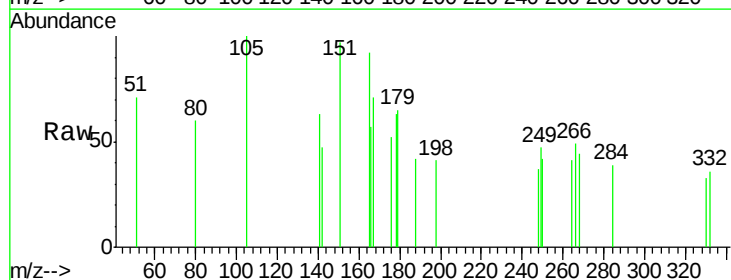
Tgt Ion:266 Resp: 22

Ion Ratio Lower Upper

266 100

264 83.1 54.5 81.7#

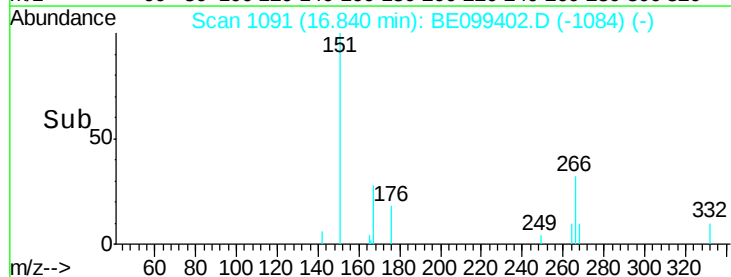
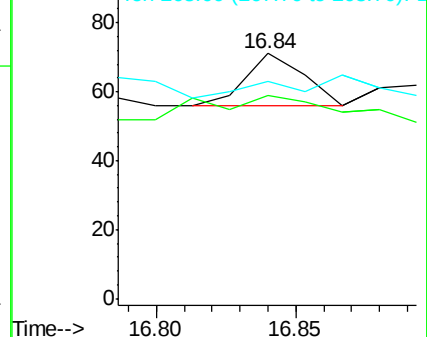
268 88.7 54.3 81.5#

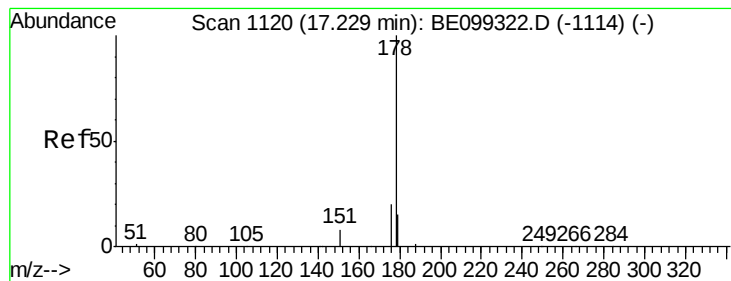


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.216 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099402.D

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PST-028-B001-042219

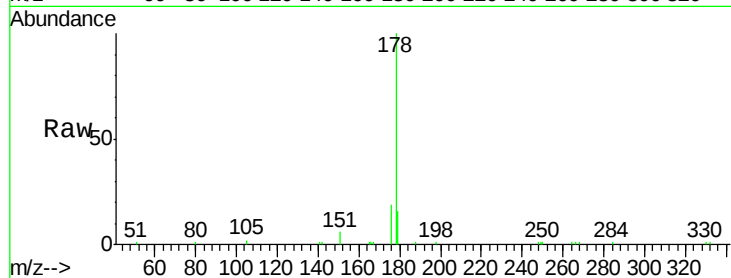
Tot Ion:178 Resp: 16610

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

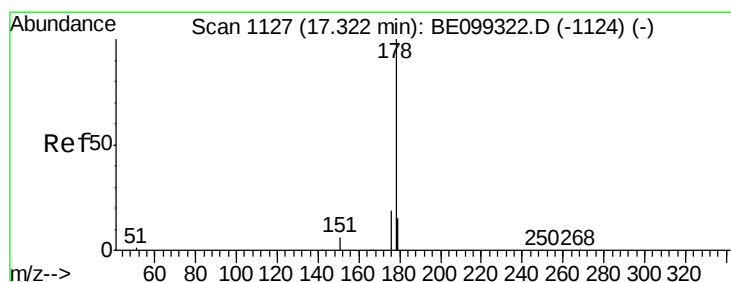
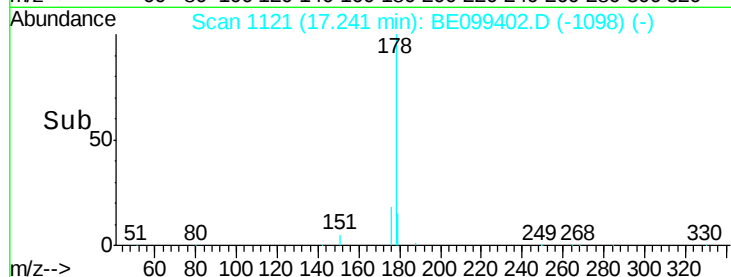
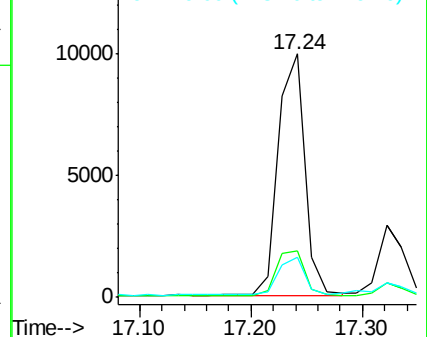
179 15.7 12.4 18.6



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: 0.064 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

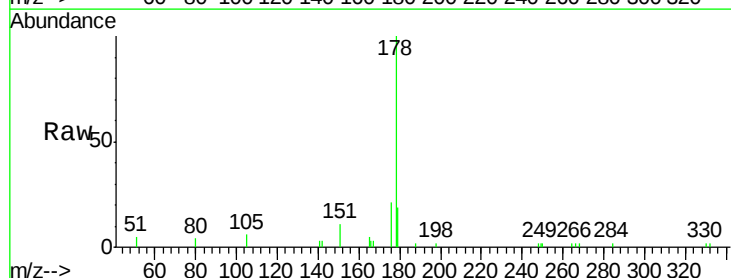
Tgt Ion:178 Resp: 4389

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

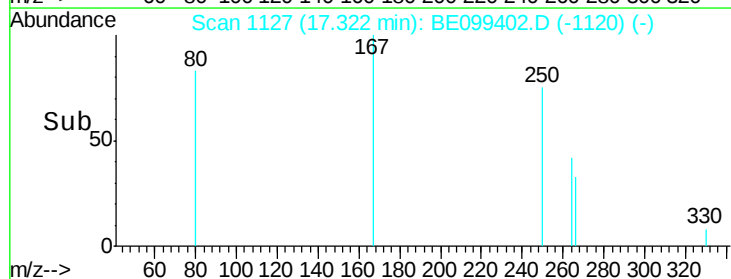
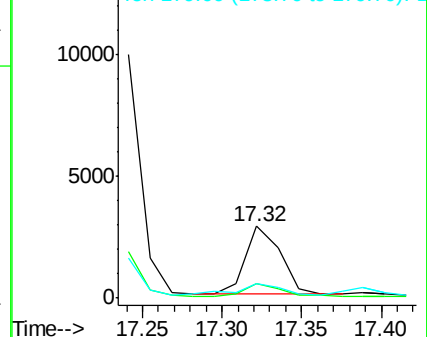
179 19.0 11.9 17.9#

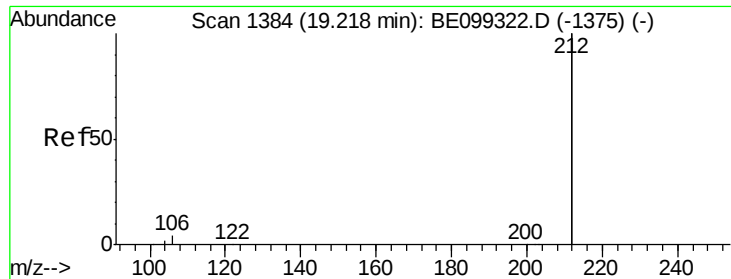


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.325 ng

RT: 19.23 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

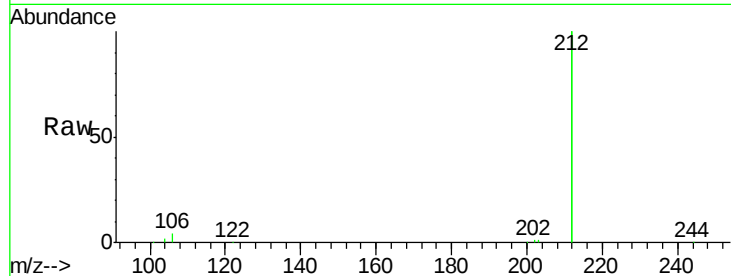
Tot Ion:212 Resp: 113359

Ion Ratio Lower Upper

212 100

106 1.9 1.8 2.6

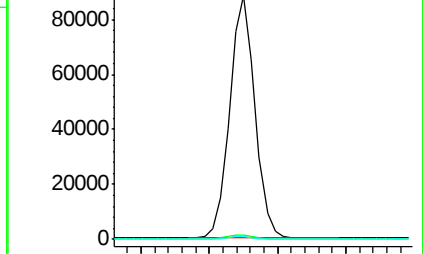
104 1.2 1.0 1.4



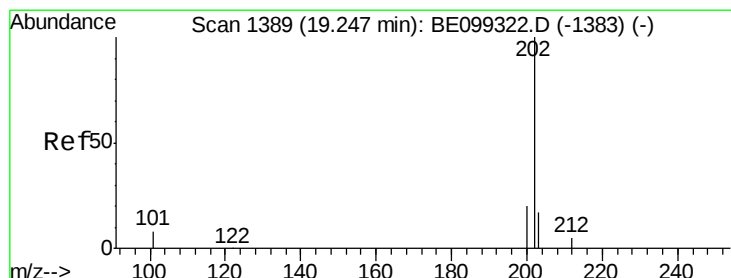
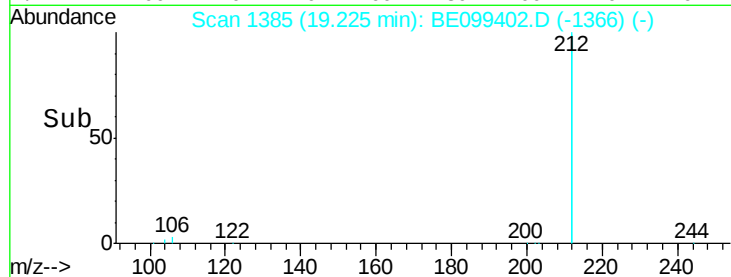
Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->



#26

Fluoranthene

Concen: 0.502 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

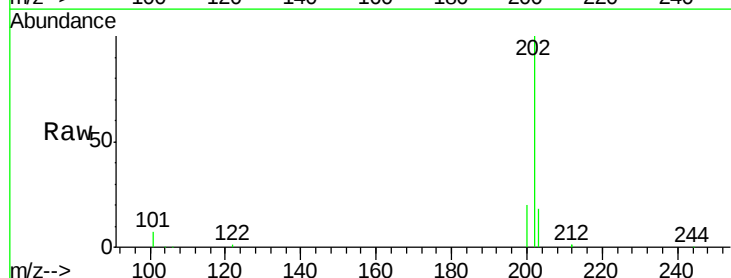
Tgt Ion:202 Resp: 51623

Ion Ratio Lower Upper

202 100

101 6.8 6.4 9.6

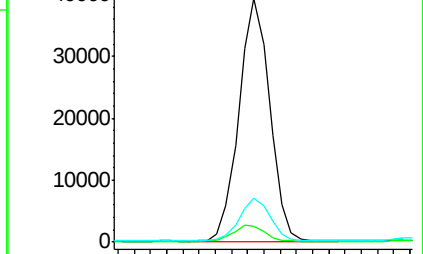
203 17.4 13.5 20.3



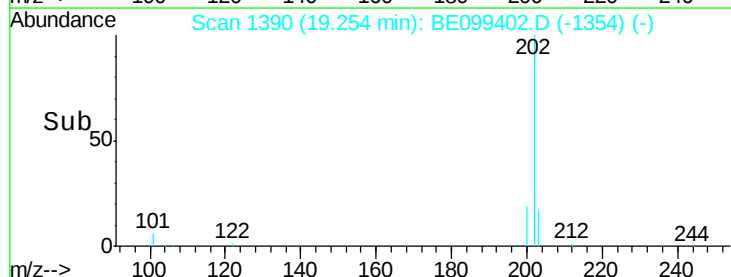
Abundance Ion 202.00 (201.70 to 202.70): E

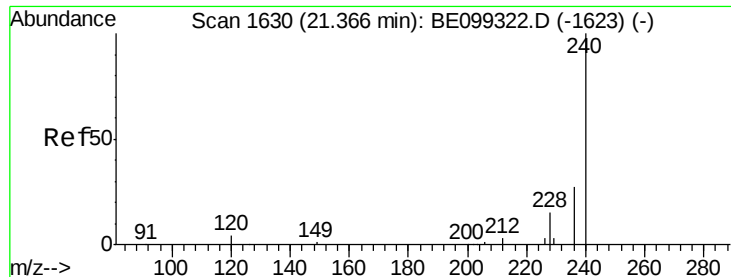
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.36 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

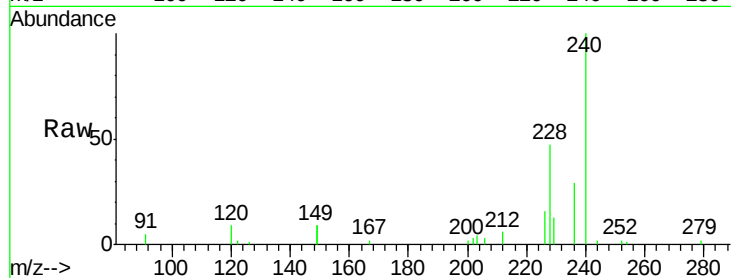
Tot Ion:240 Resp: 31998

Ion Ratio Lower Upper

240 100

120 8.8 2.2 3.2#

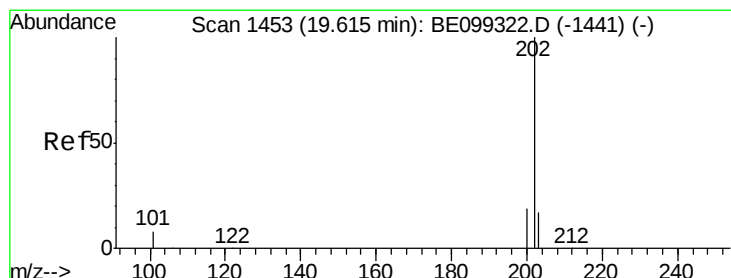
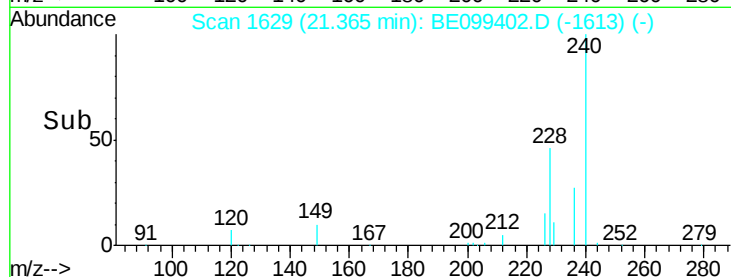
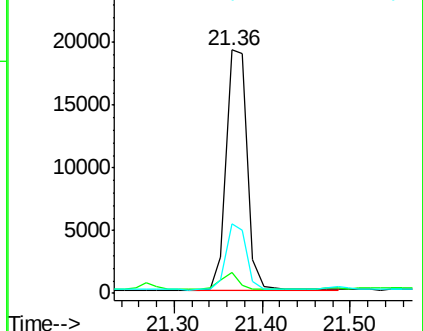
236 28.5 20.2 30.4



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: 0.501 ng

RT: 19.62 min Scan# 1453

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

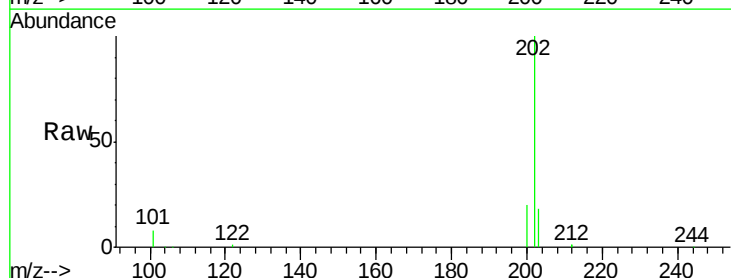
Tgt Ion:202 Resp: 47269

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

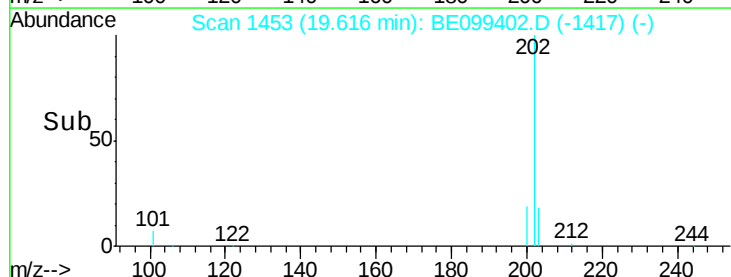
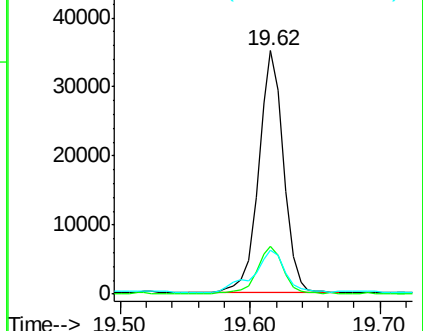
203 22.0 13.7 20.5#

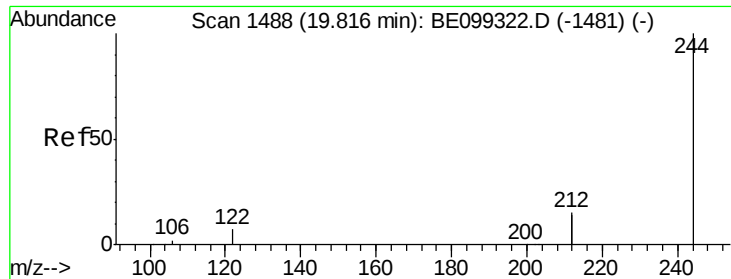


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.303 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

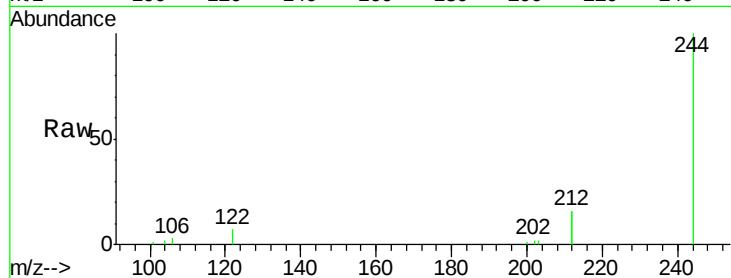
Tot Ion:244 Resp: 19086

Ion Ratio Lower Upper

244 100

212 31.9 22.6 33.8

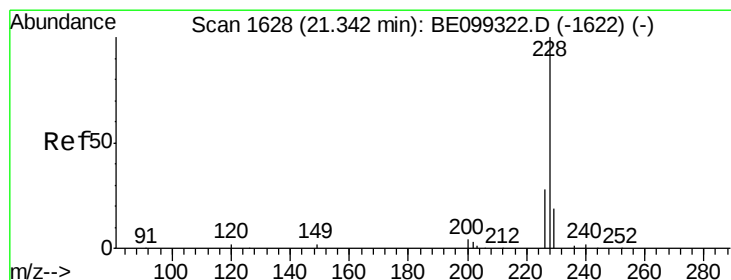
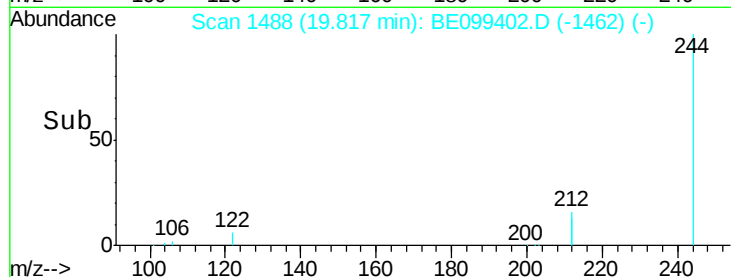
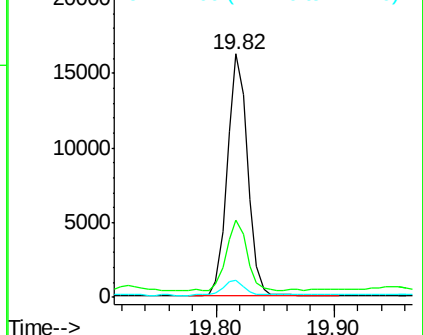
122 6.8 4.6 7.0



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: 0.348 ng

RT: 21.35 min Scan# 1628

Delta R.T. 0.01 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

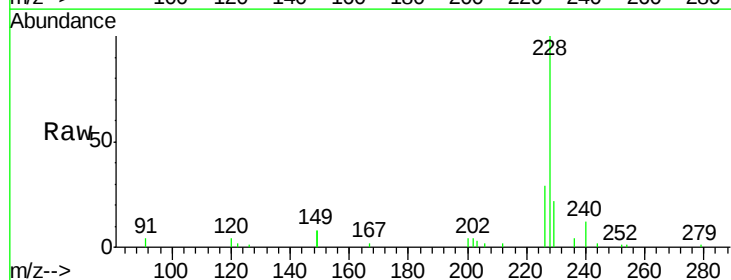
Tgt Ion:228 Resp: 32740

Ion Ratio Lower Upper

228 100

226 29.0 22.0 33.0

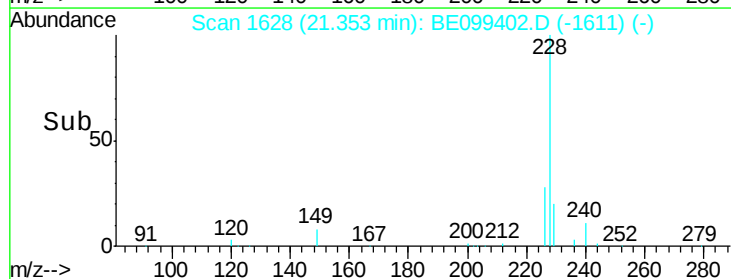
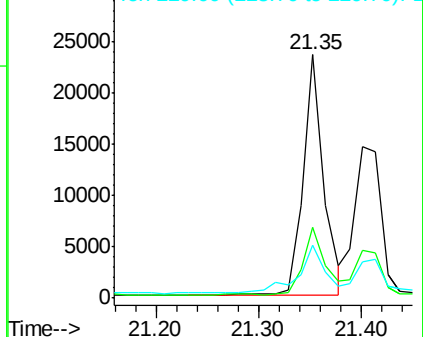
229 21.8 15.8 23.8

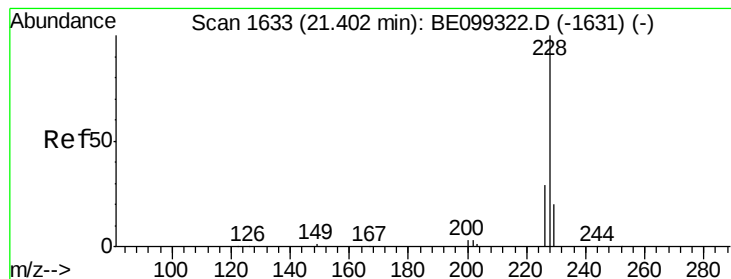


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.252 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

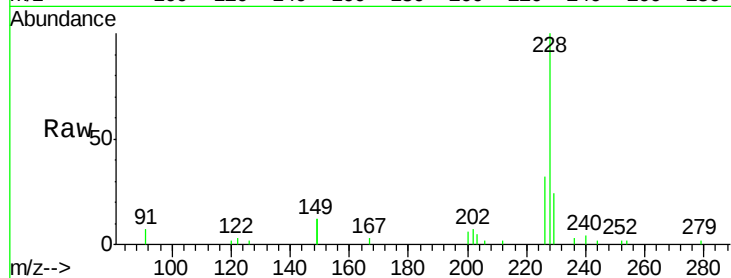
Tot Ion:228 Resp: 25278

Ion Ratio Lower Upper

228 100

226 31.5 23.4 35.2

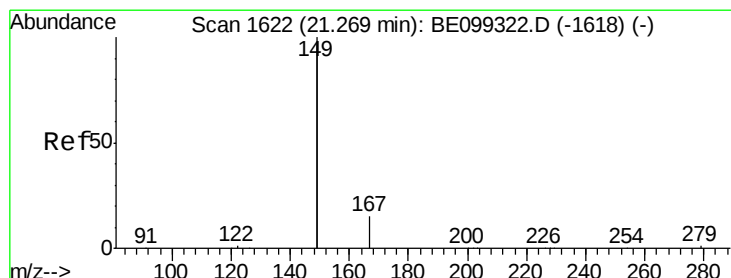
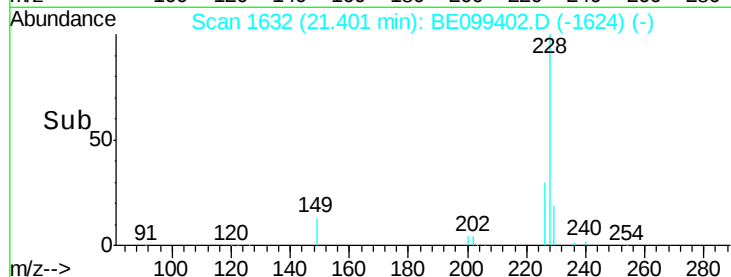
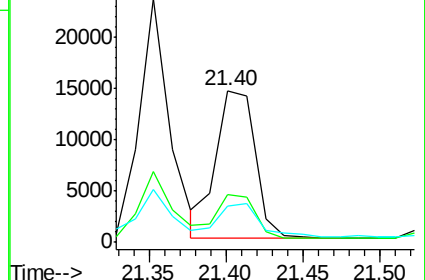
229 24.2 16.2 24.2



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: 50.246 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

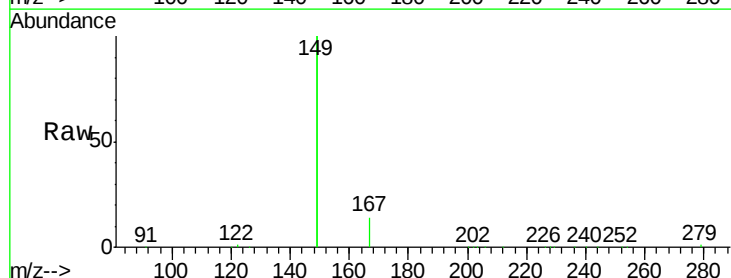
Tgt Ion:149 Resp: 4300824

Ion Ratio Lower Upper

149 100

167 7.7 6.0 9.0

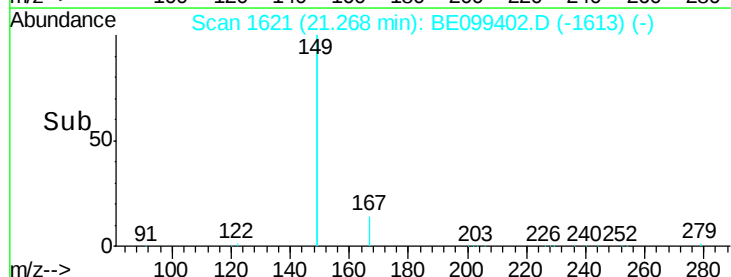
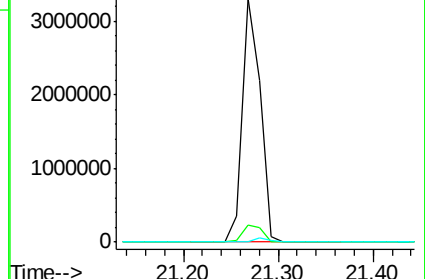
279 1.5 1.1 1.7

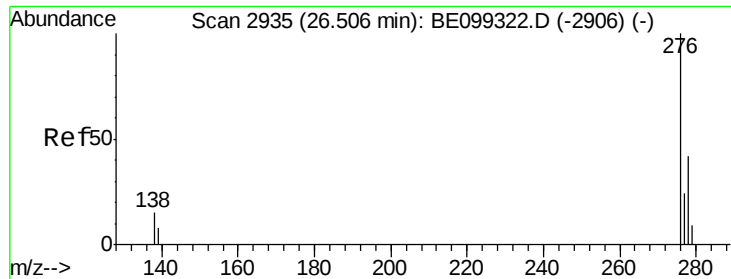


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.107 ng

RT: 26.52 min Scan# 2939

Delta R.T. 0.03 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

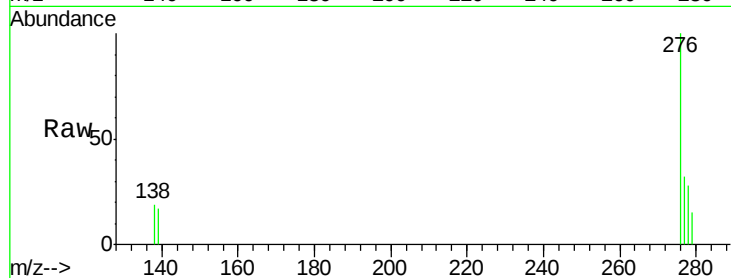
Tot Ion:276 Resp: 10581

Ion Ratio Lower Upper

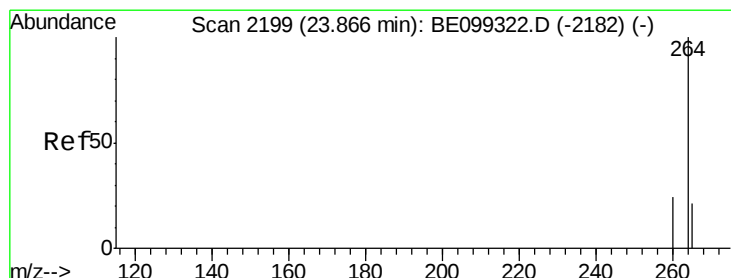
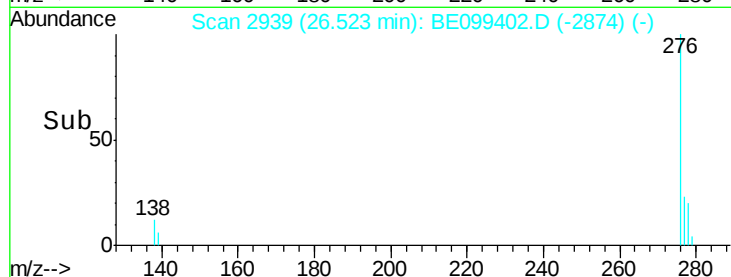
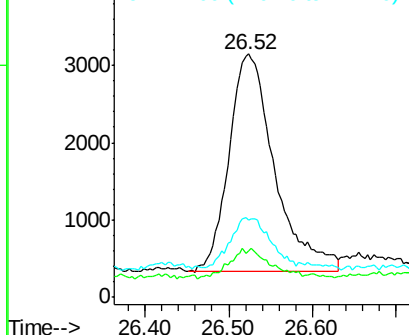
276 100

138 5.4 12.7 19.1#

277 20.6 19.6 29.4



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: 23.88 min Scan# 2201

Delta R.T. 0.02 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

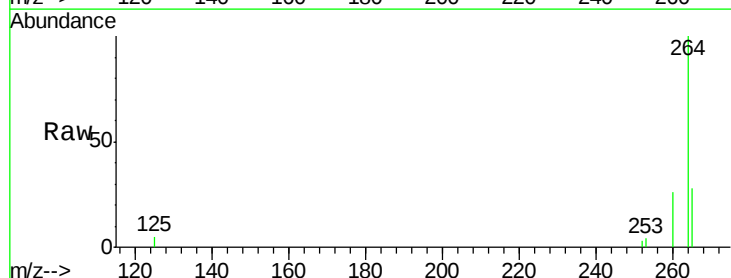
Tgt Ion:264 Resp: 35863

Ion Ratio Lower Upper

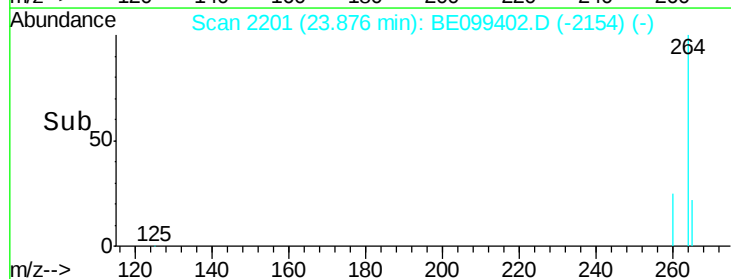
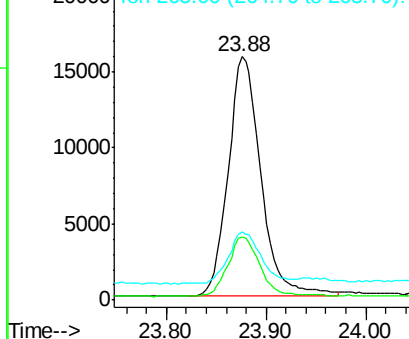
264 100

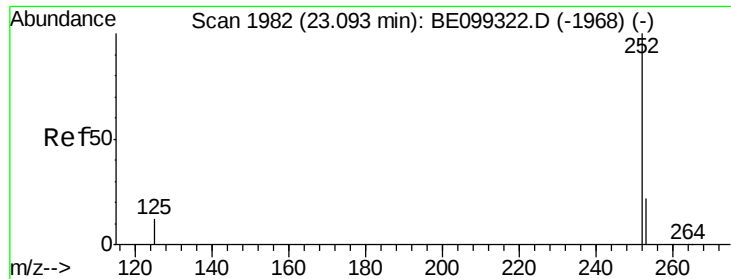
260 25.7 20.1 30.1

265 28.2 19.9 29.9



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: 0.259 ng

RT: 23.11 min Scan# 1985

Delta R.T. 0.02 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

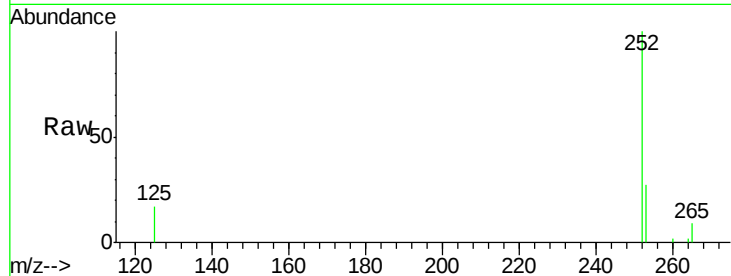
Tot Ion:252 Resp: 28425

Ion Ratio Lower Upper

252 100

253 27.1 17.3 25.9#

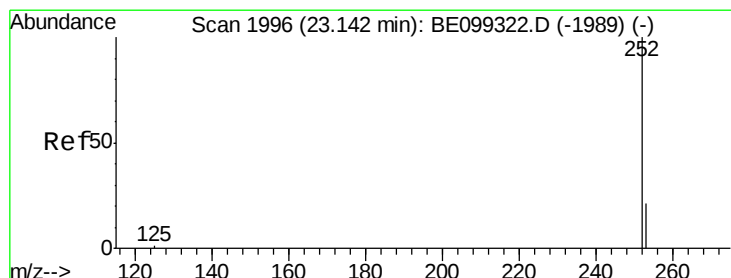
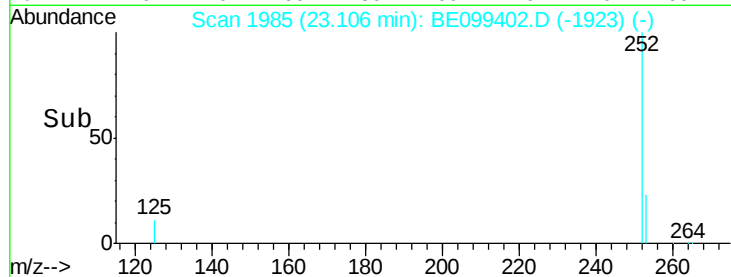
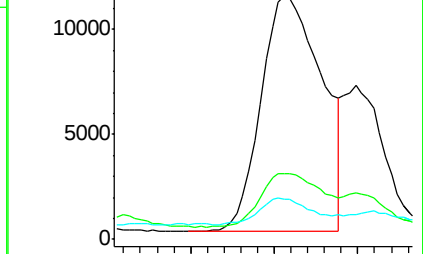
125 16.6 5.8 8.6#



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: 0.260 ng

RT: 23.11 min Scan# 1985

Delta R.T. -0.03 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

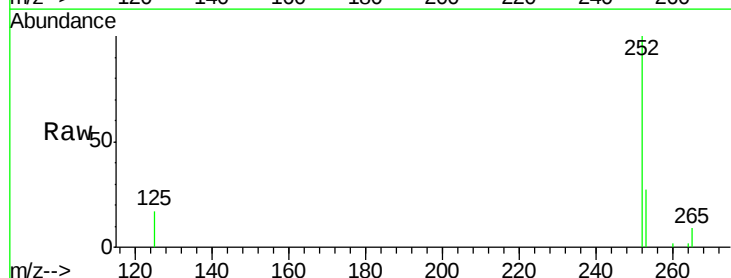
Tgt Ion:252 Resp: 28442

Ion Ratio Lower Upper

252 100

253 27.1 18.4 27.6

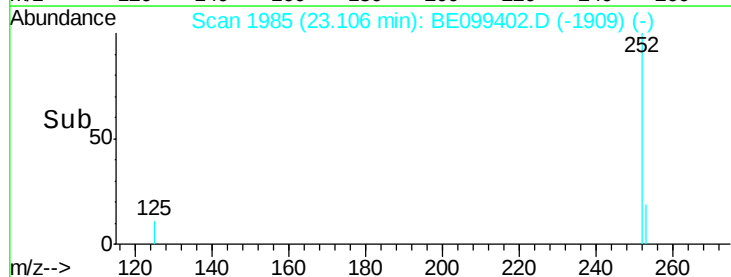
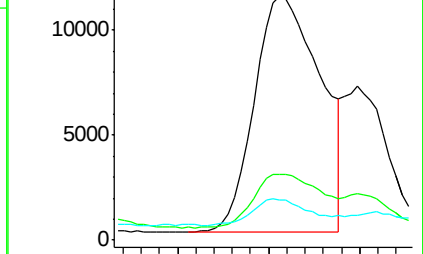
125 16.6 5.4 8.0#

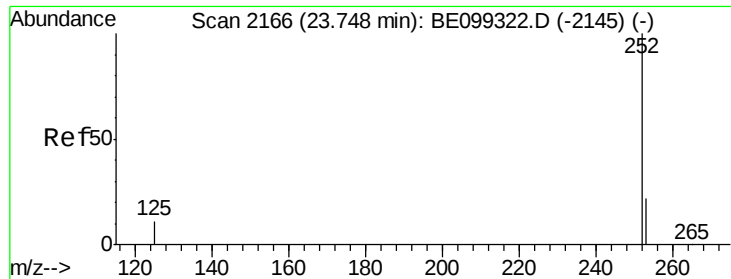


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.226 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.02 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

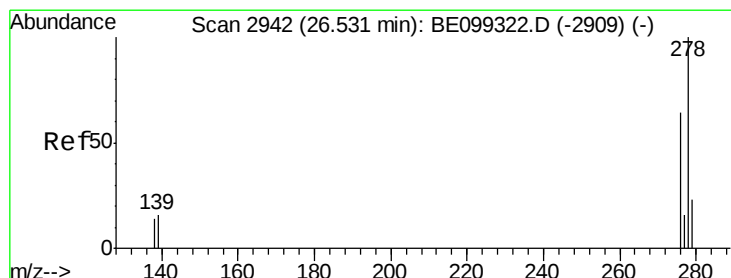
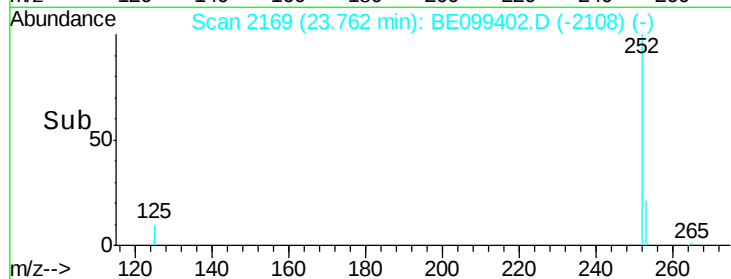
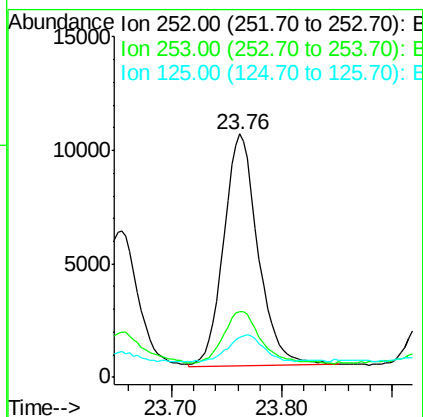
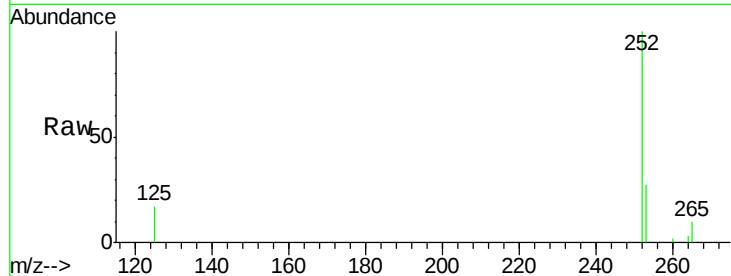
Tot Ion:252 Resp: 22262

Ion Ratio Lower Upper

252 100

253 27.0 17.6 26.4#

125 16.6 6.5 9.7#



#38

Dibenzo(a,h)anthracene

Concen: 0.029 ng

RT: 26.54 min Scan# 2945

Delta R.T. 0.02 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

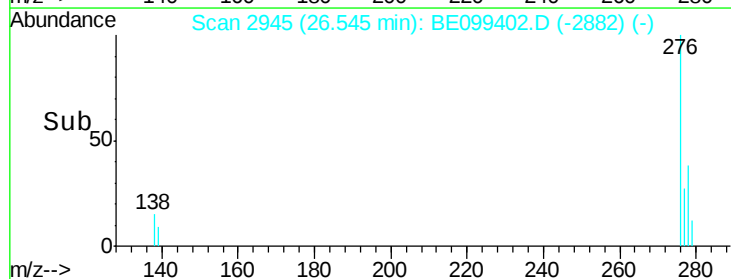
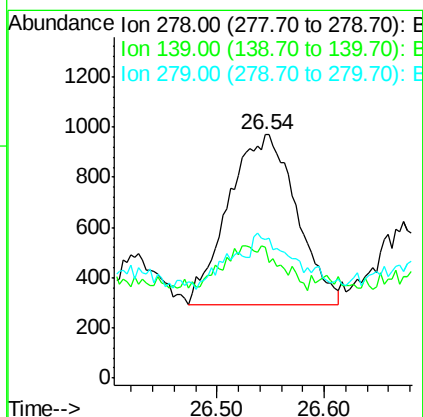
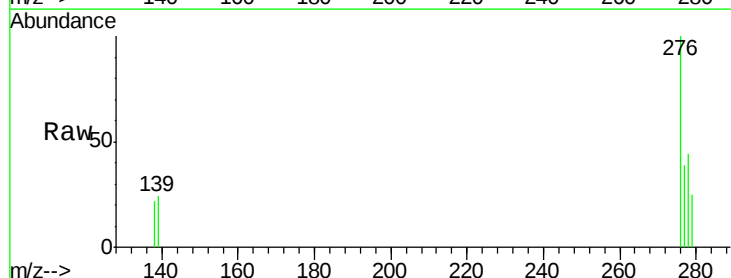
Tgt Ion:278 Resp: 2963

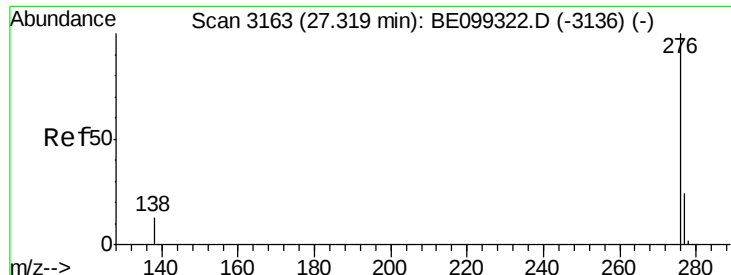
Ion Ratio Lower Upper

278 100

139 54.0 8.5 12.7#

279 57.2 19.8 29.8#





#39

Benzo(a,h,i)perylene

Concen: 0.094 ng

RT: 27.35 min Scan# 3170

Delta R.T. 0.04 min

Lab File: BE099402.D

Acq: 27 Apr 2019 6:07

Instrument :

BNA_E

ClientSampleId :

PST-028-B001-042219

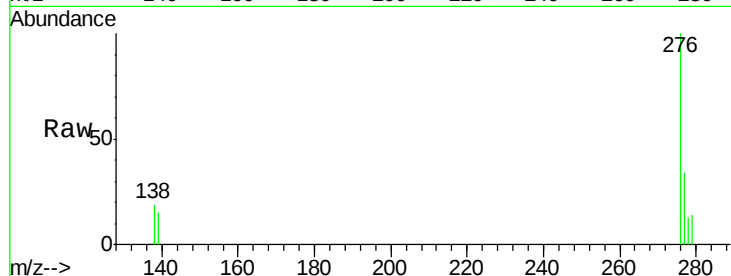
Tot Ion: 276 Resp: 9572

Ion Ratio Lower Upper

276 100

277 33.9 20.0 30.0#

138 19.1 11.1 16.7#



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

