

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
 Data File : BE099367.D
 Acq On : 25 Apr 2019 18:37
 Operator : JU/SJ
 Sample : K2534-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-074-SW063-042219

Quant Time: Apr 26 00:43:14 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	4474	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	18201	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	13067	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	34703	0.40	ng	0.00
27) Chrysene-d12	21.37	240	37089	0.40	ng	0.00
34) Perylene-d12	23.86	264	41748	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	5234	0.48	ng	0.01
5) Phenol-d6	6.98	99	8840	0.57	ng	0.00
8) Nitrobenzene-d5	8.96	82	6451	0.46	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	12119	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	4936	1.14	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	19663	0.38	ng	0.00
25) Fluoranthene-d10	19.22	212	145226	0.35	ng	0.00
29) Terphenyl-d14	19.82	244	34499	0.47	ng	0.00

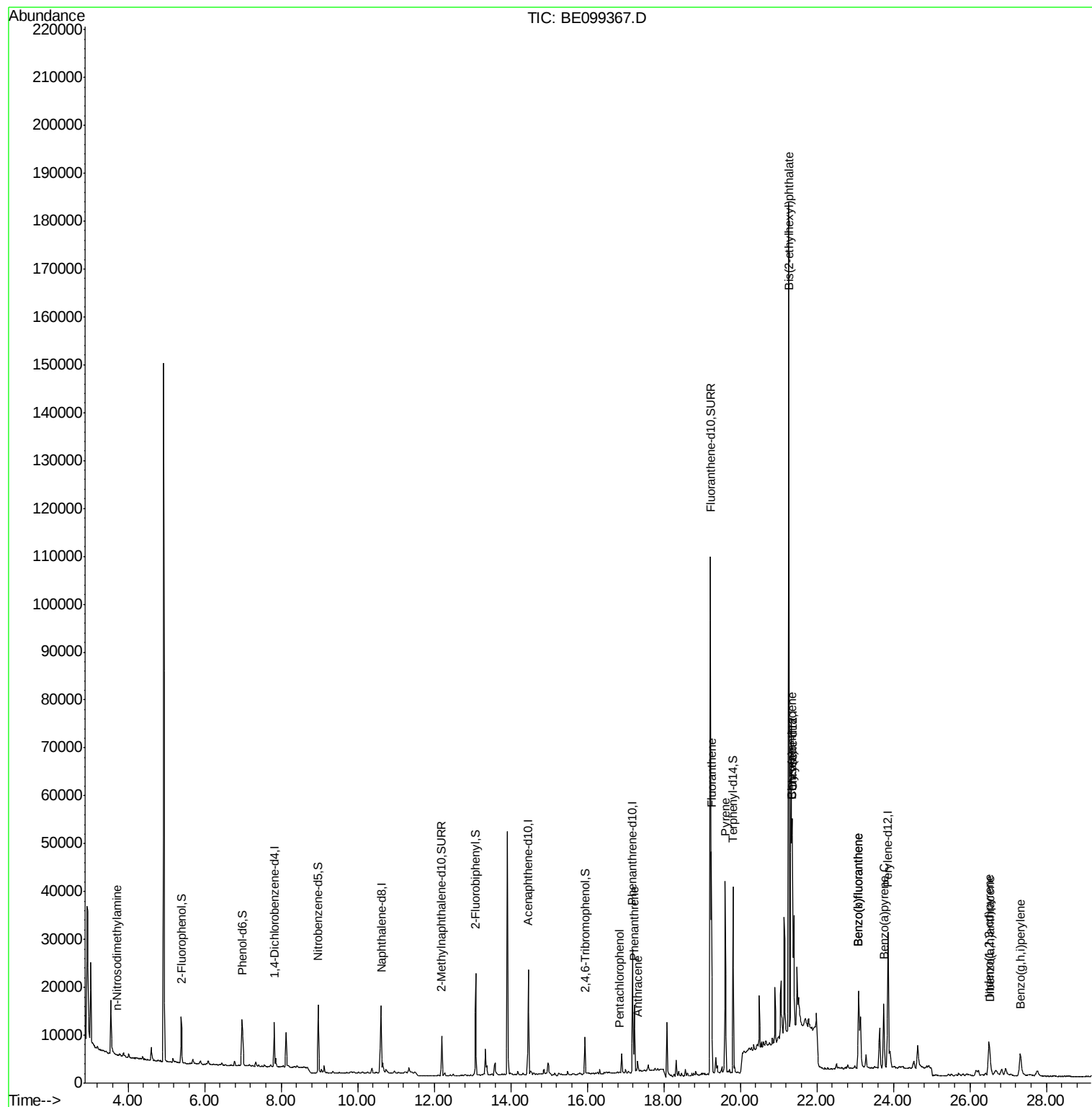
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.70	42	84	0.025	ng	# 1
22) Pentachlorophenol	16.84	266	31	0.224	ng	# 56
23) Phenanthrene	17.23	178	15081	0.164	ng	# 99
24) Anthracene	17.32	178	2072	0.025	ng	# 83
26) Fluoranthene	19.25	202	39772	0.323	ng	# 98
28) Pyrene	19.61	202	36987	0.338	ng	# 95
30) Benzo(a)anthracene	21.34	228	22564	0.207	ng	# 96
31) Chrysene	21.34	228	15239	0.131	ng	# 98
32) Bis(2-ethylhexyl)phthalate	21.27	149	200490	2.021	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.51	276	13937	0.122	ng	# 95
35) Benzo(b)fluoranthene	23.09	252	29257	0.229	ng	# 81
36) Benzo(k)fluoranthene	23.09	252	29257	0.230	ng	# 83
37) Benzo(a)pyrene	23.75	252	19893	0.174	ng	# 81
38) Dibenzo(a,h)anthracene	26.53	278	3912	0.033	ng	# 49
39) Benzo(a,h,i)perylene	27.33	276	13351	0.113	ng	# 92

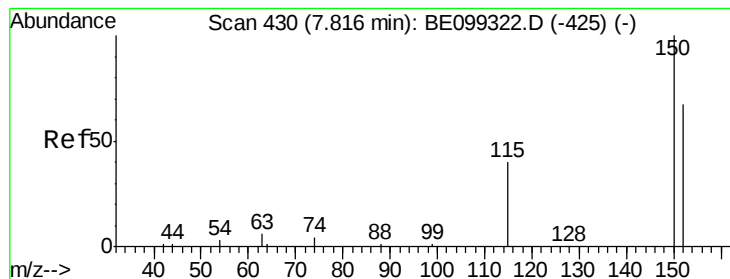
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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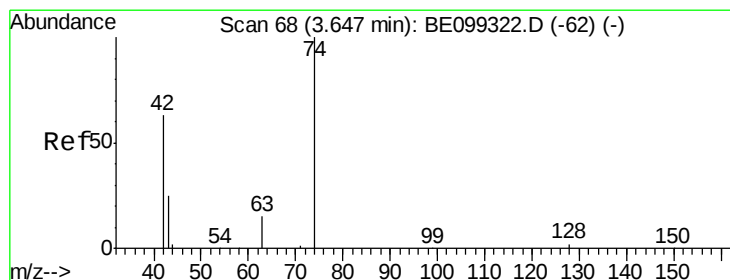
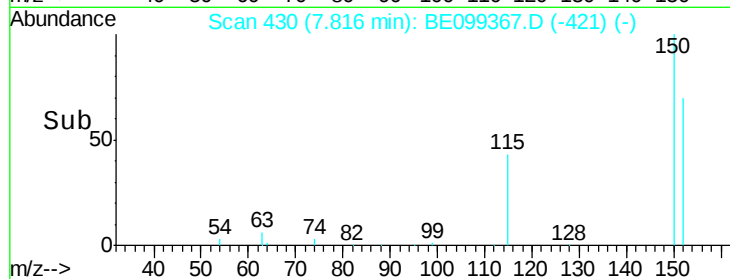
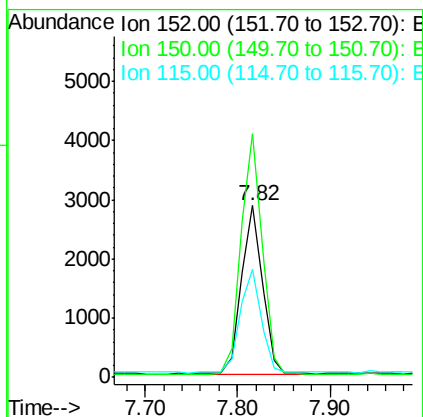
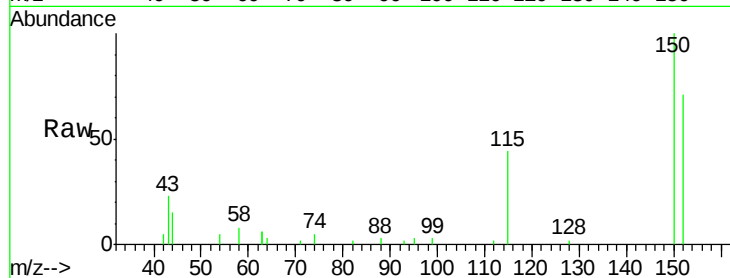


#1

1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.82 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: BE099367.D
 Acq: 25 Apr 2019 18:37

Instrument :
 BNA_E
 ClientSampleId :
 EXT-074-SW063-042219

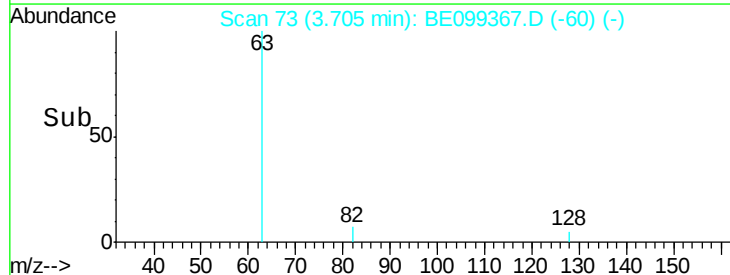
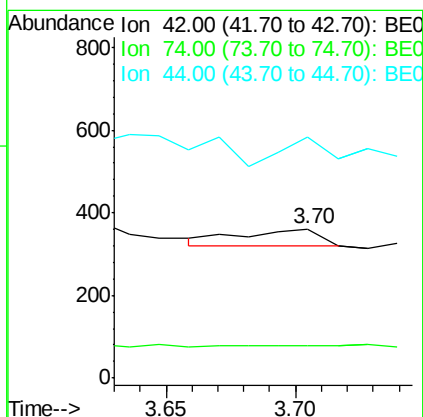
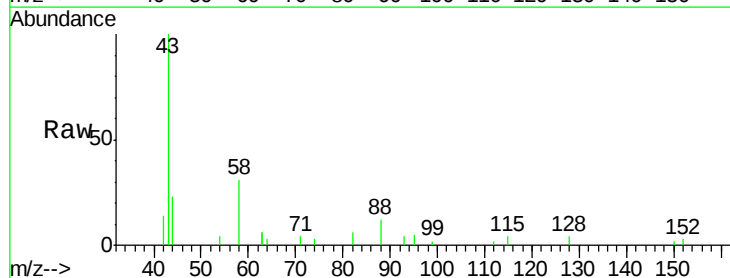
Tot Ion:152 Resp: 4474
 Ion Ratio Lower Upper
 152 100
 150 141.7 119.5 179.3
 115 62.5 47.5 71.3

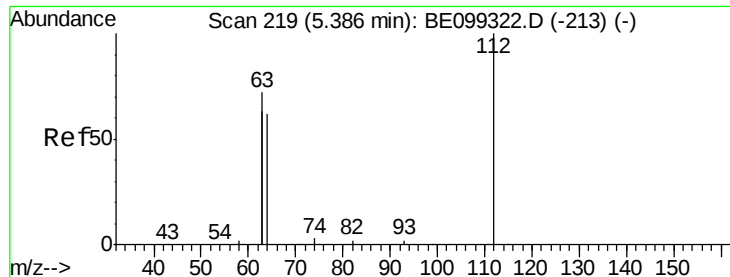


#3

n-Nitrosodimethylamine
 Concen: 0.025 ng
 RT: 3.70 min Scan# 73
 Delta R.T. 0.05 min
 Lab File: BE099367.D
 Acq: 25 Apr 2019 18:37

Tgt Ion: 42 Resp: 84
 Ion Ratio Lower Upper
 42 100
 74 0.0 145.8 218.8#
 44 102.4 9.0 13.4#





#4

2-Fluorophenol

Concen: 0.479 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

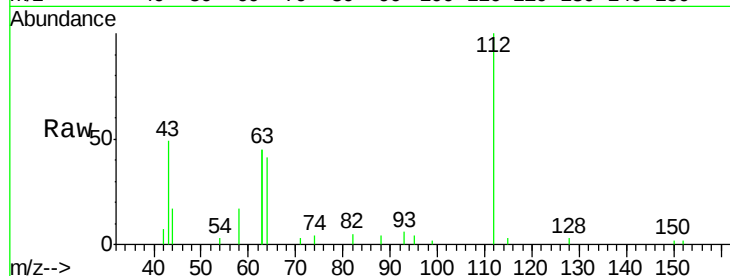
Tot Ion: 112 Resp: 5234

Ion Ratio Lower Upper

112 100

64 58.7 44.9 67.3

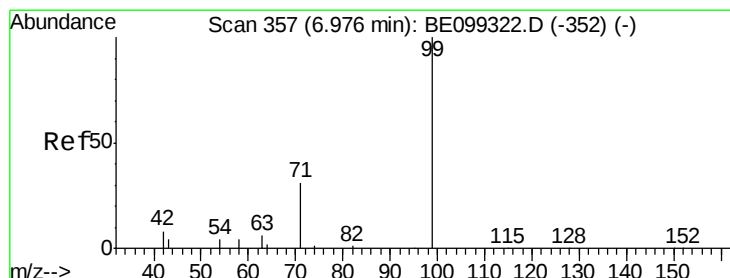
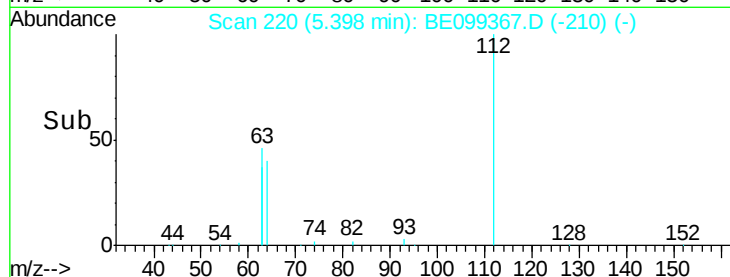
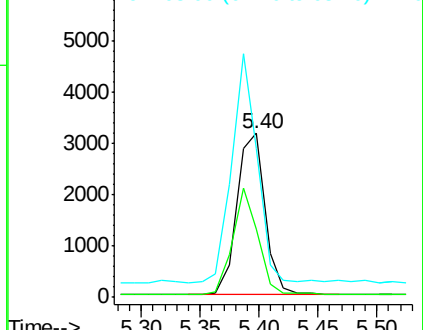
63 127.3 97.4 146.0



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: 0.567 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

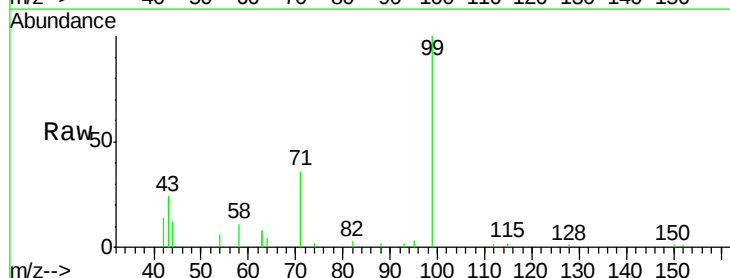
Tgt Ion: 99 Resp: 8840

Ion Ratio Lower Upper

99 100

42 17.3 11.7 17.5

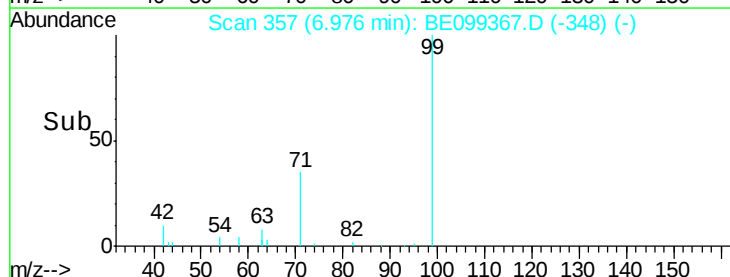
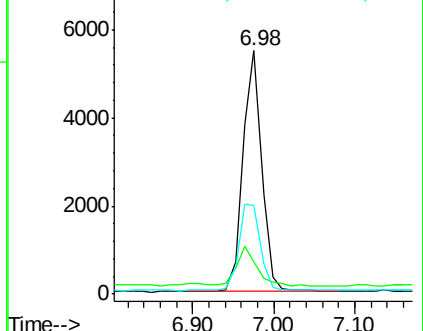
71 40.2 29.6 44.4

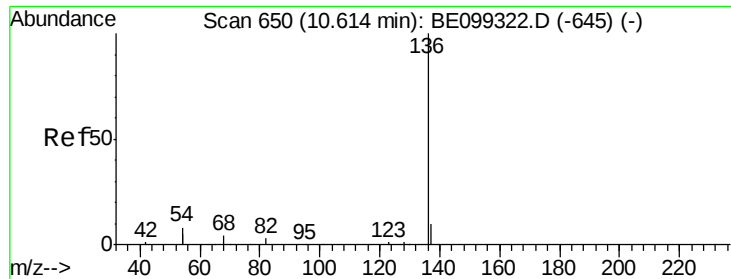


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

Tot Ion:136 Resp: 18201

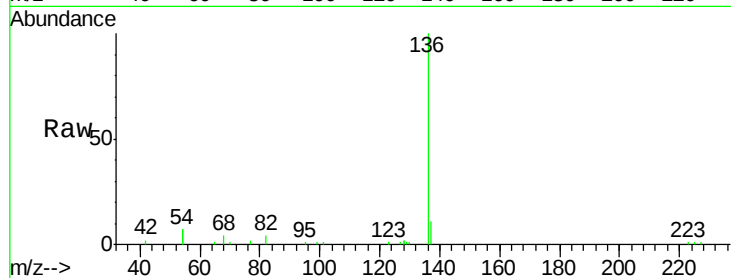
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 13.9 23.8 35.8#

68 3.9 6.4 9.6#

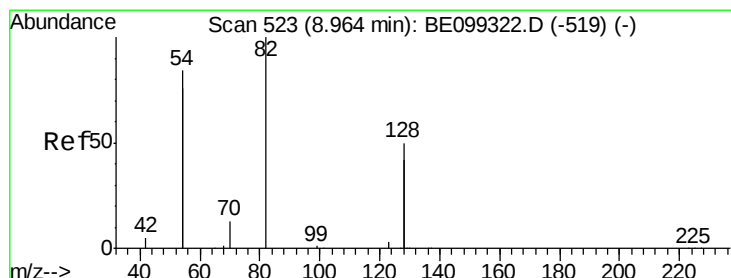
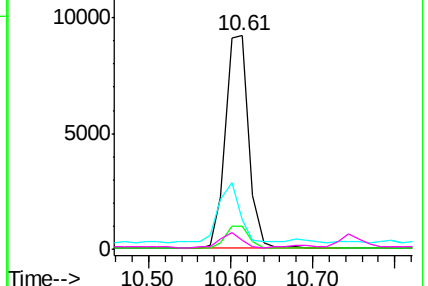
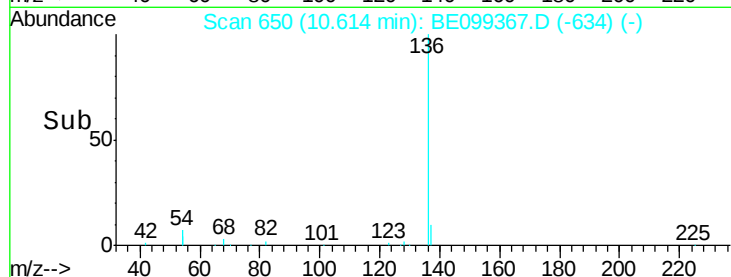


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.457 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

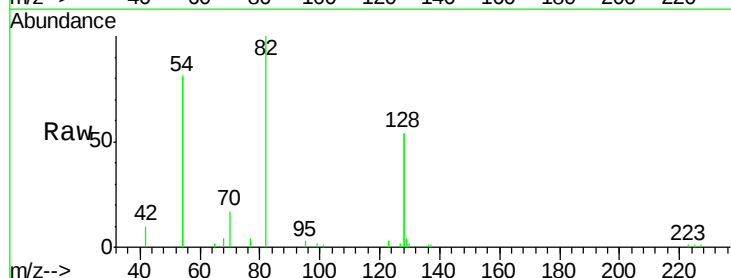
Tgt Ion: 82 Resp: 6451

Ion Ratio Lower Upper

82 100

128 108.3 91.7 137.5

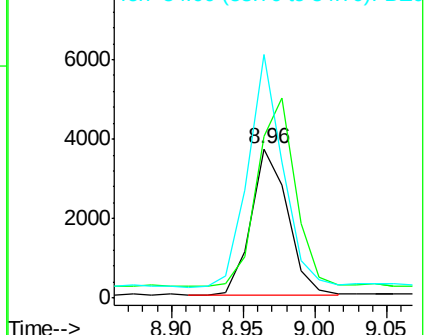
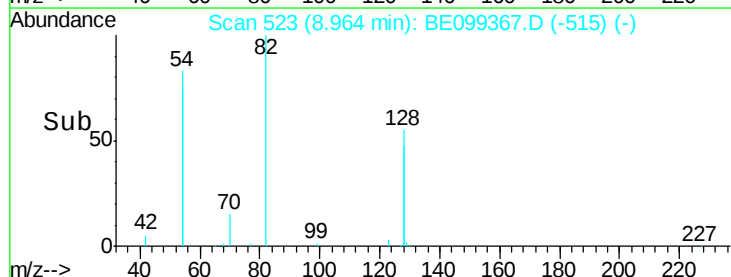
54 162.9 122.8 184.2

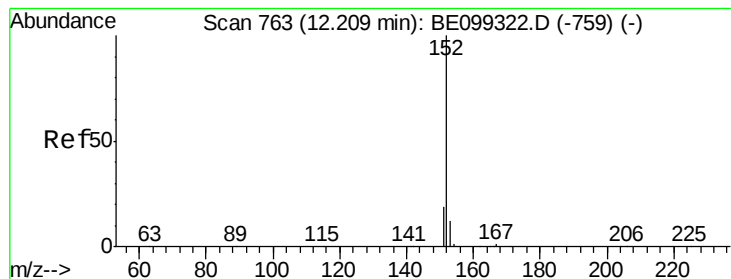


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

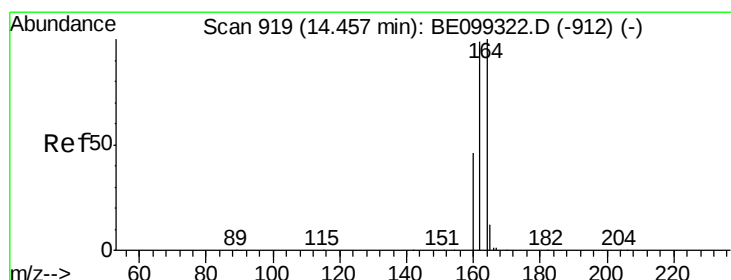
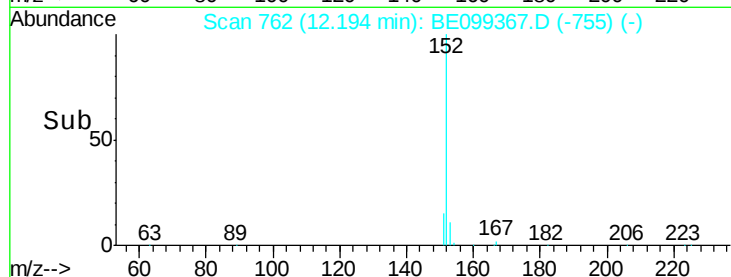
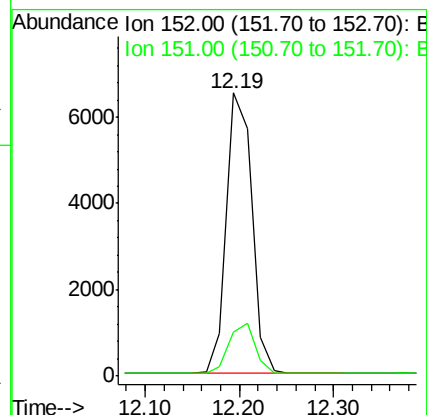
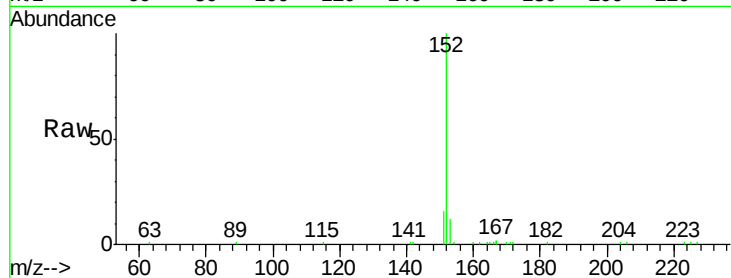




#11
 2-Methylnaphthalene-d10
 Concen: 0.377 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099367.D
 Acq: 25 Apr 2019 18:37

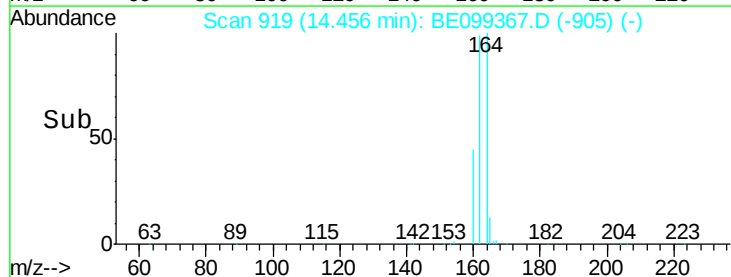
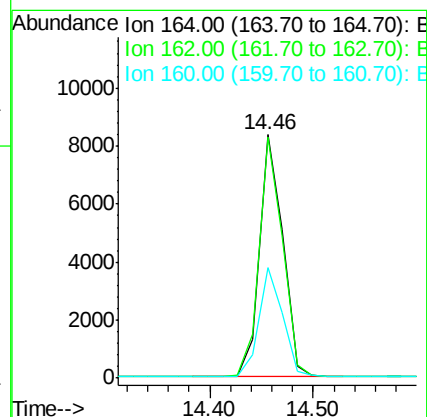
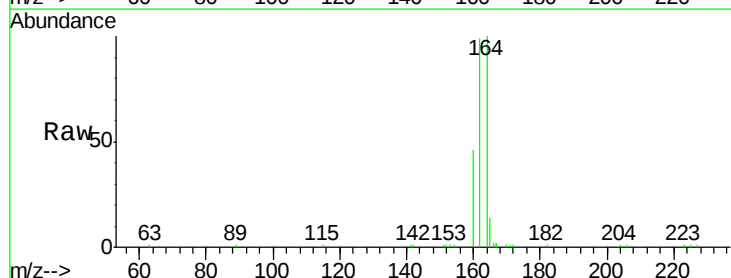
Instrument :
 BNA_E
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 EXT-074-SW063-042219

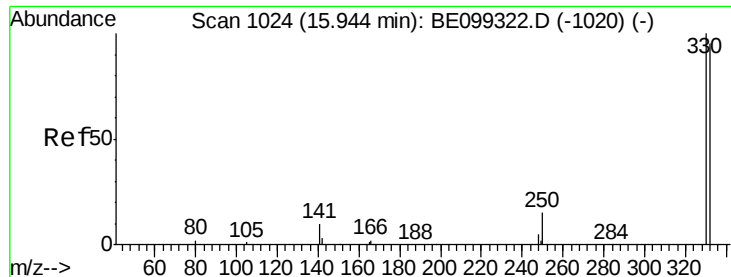
Tot Ion:152 Resp: 12119
 Ion Ratio Lower Upper
 152 100
 151 19.0 14.9 22.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099367.D
 Acq: 25 Apr 2019 18:37

Tgt Ion:164 Resp: 13067
 Ion Ratio Lower Upper
 164 100
 162 99.2 77.8 116.6
 160 45.5 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 1.137 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

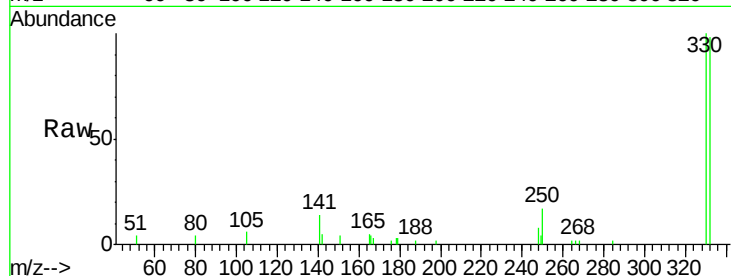
Tot Ion:330 Resp: 4936

Ion Ratio Lower Upper

330 100

332 95.0 82.5 123.7

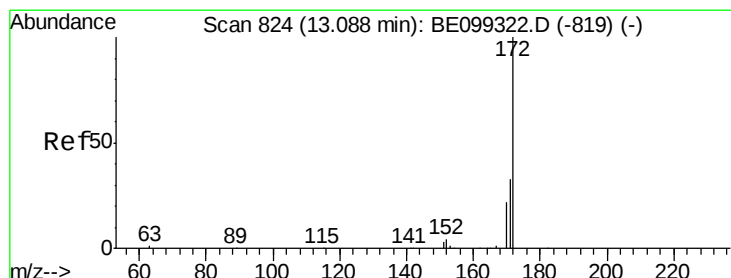
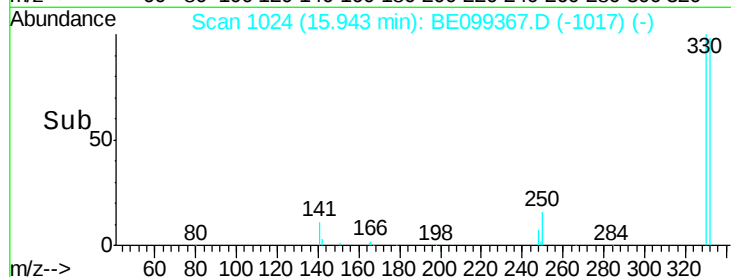
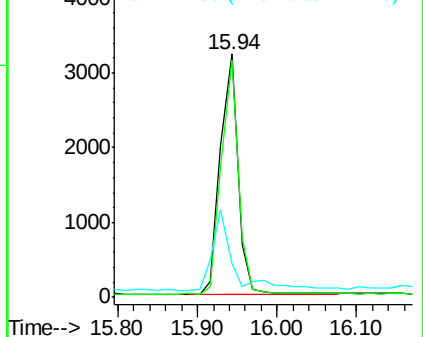
141 33.5 24.9 37.3



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: 0.383 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

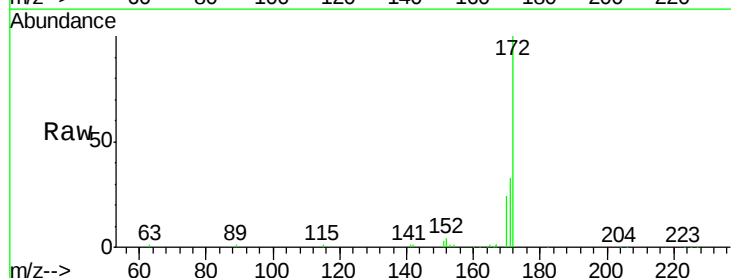
Tgt Ion:172 Resp: 19663

Ion Ratio Lower Upper

172 100

171 33.5 26.2 39.2

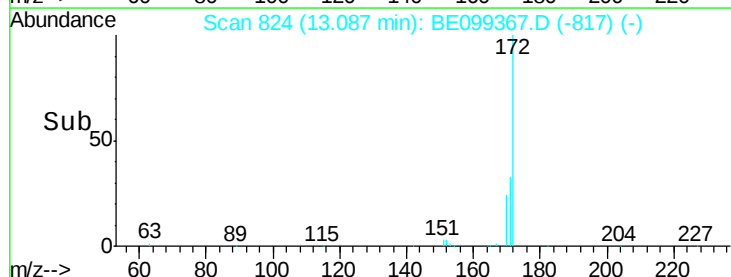
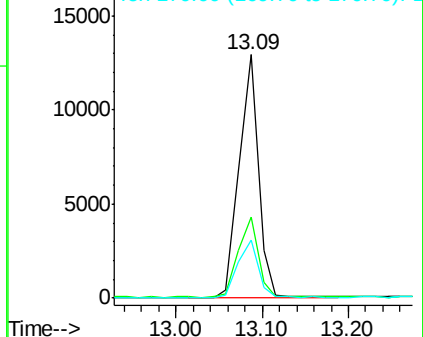
170 23.9 18.1 27.1

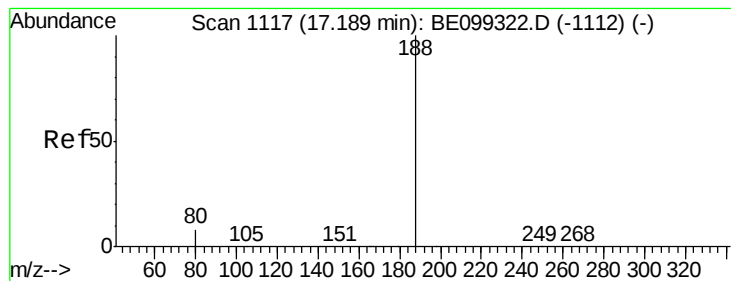


Abundance Ion 172.00 (171.70 to 172.70): E

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: 17.19 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

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ClientSampleId :

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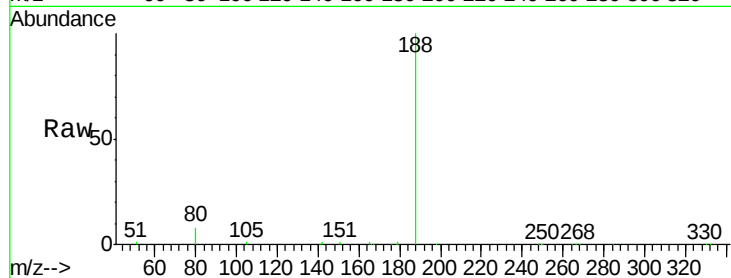
Tot Ion:188 Resp: 34703

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

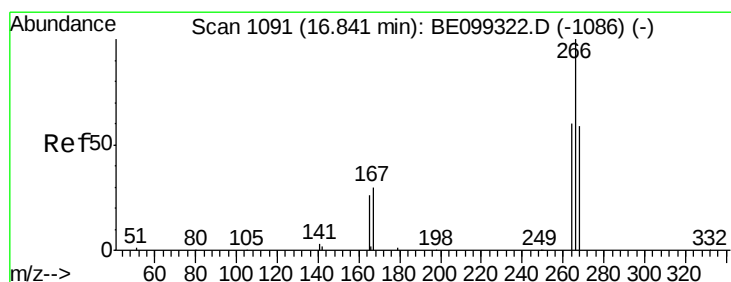
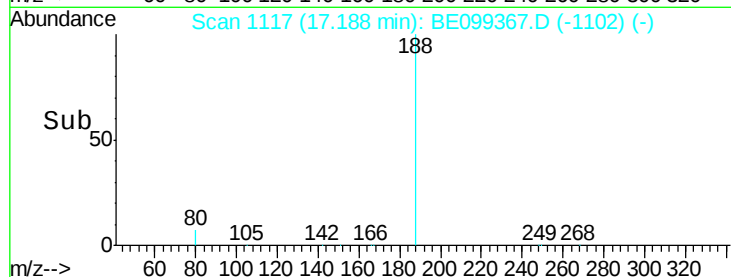
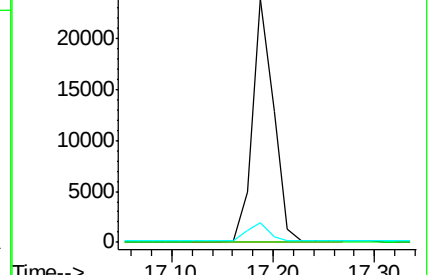
80 7.8 6.2 9.4



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: BE099367.D

Acq: 25 Apr 2019 18:37

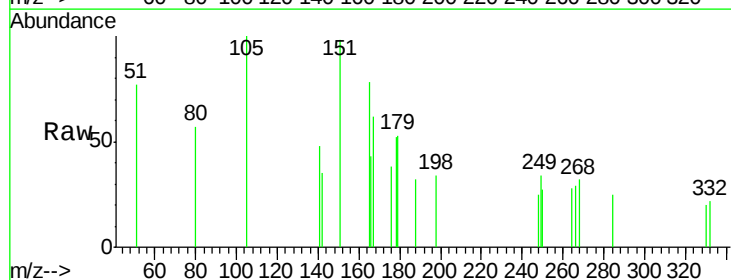
Tgt Ion:266 Resp: 31

Ion Ratio Lower Upper

266 100

264 96.9 54.5 81.7#

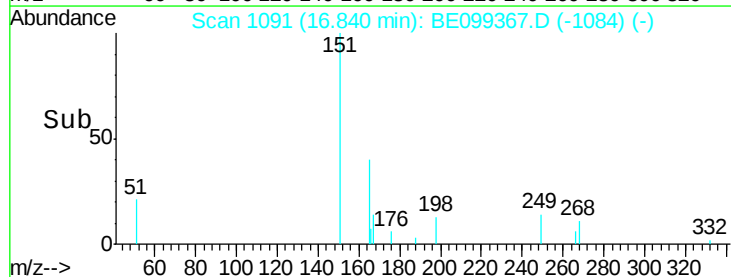
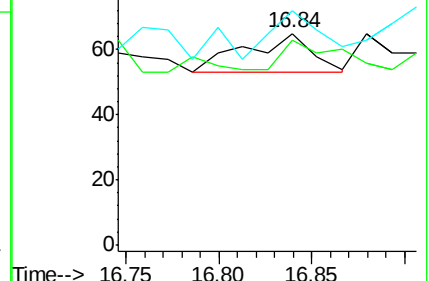
268 110.8 54.3 81.5#

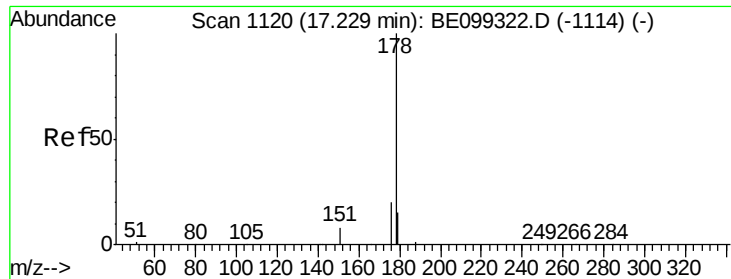


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.164 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

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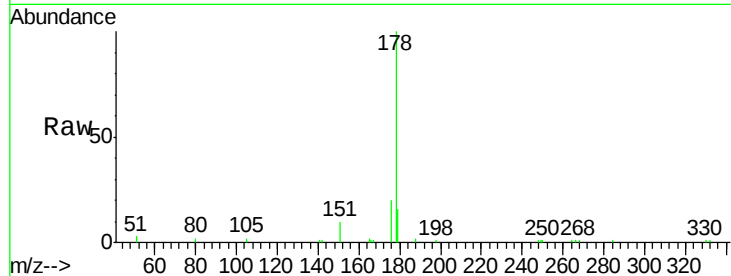
Tot Ion:178 Resp: 15081

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

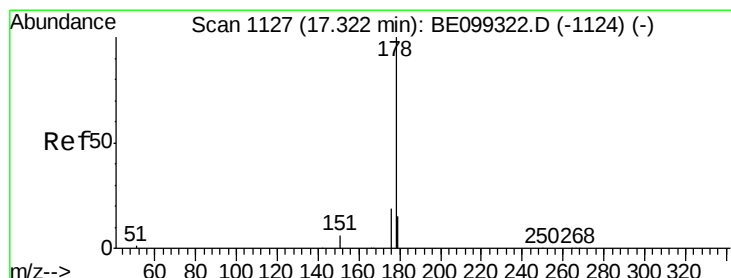
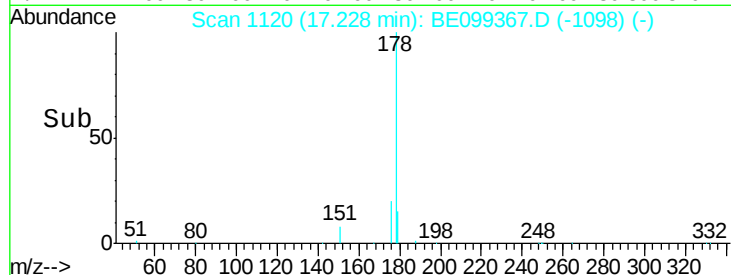
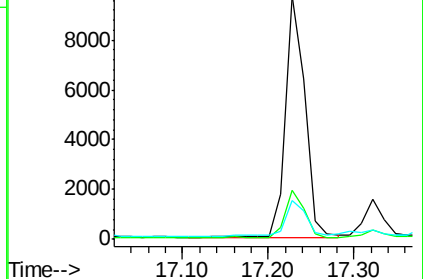
179 16.3 12.4 18.6



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: 0.025 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

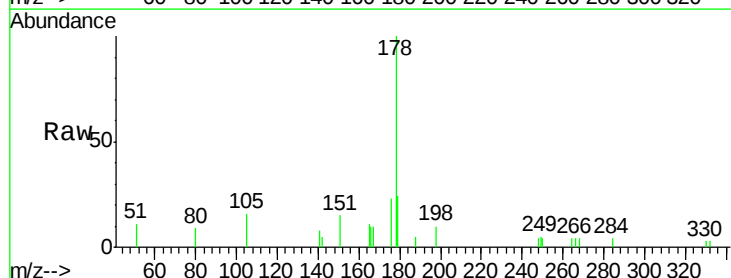
Tgt Ion:178 Resp: 2072

Ion Ratio Lower Upper

178 100

176 22.4 15.1 22.7

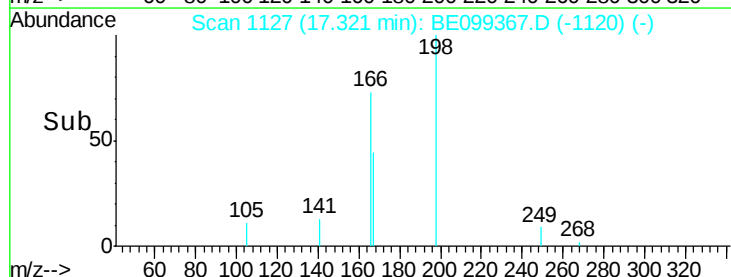
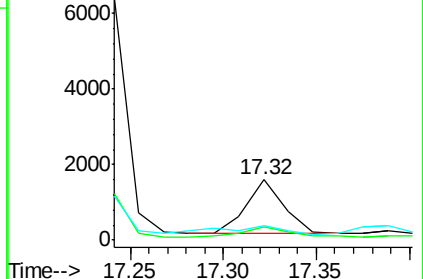
179 26.4 11.9 17.9#

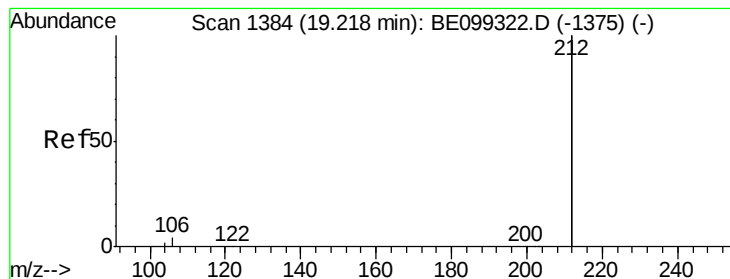


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.348 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

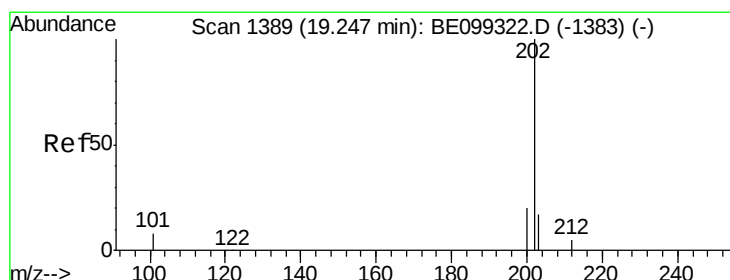
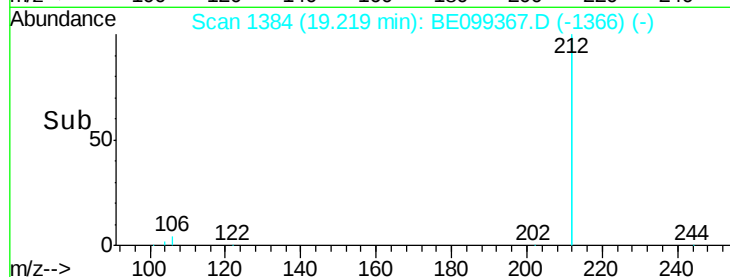
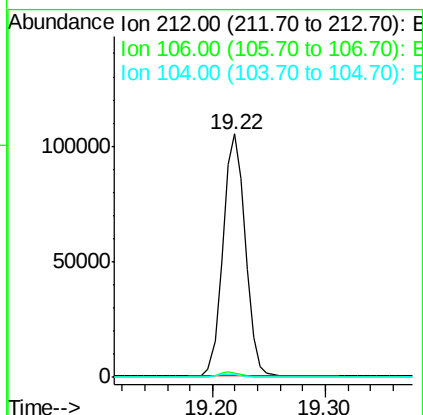
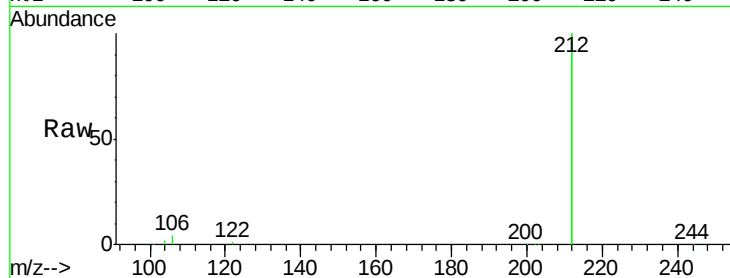
Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

Tot Ion:212	Resp:	145226
Ion Ratio	Lower	Upper
212	100	
106	1.9	1.8 2.6
104	1.2	1.0 1.4



#26

Fluoranthene

Concen: 0.323 ng

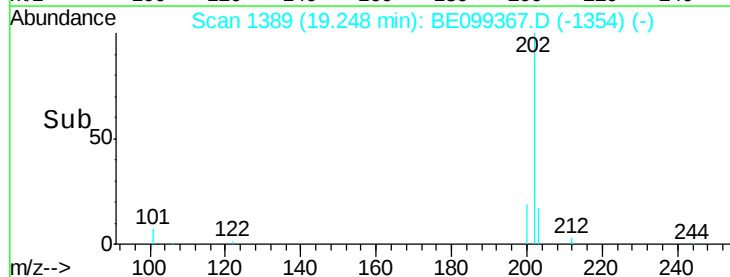
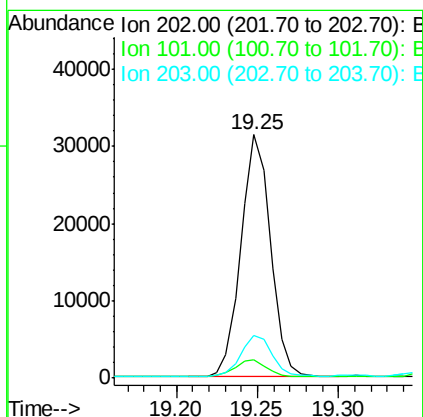
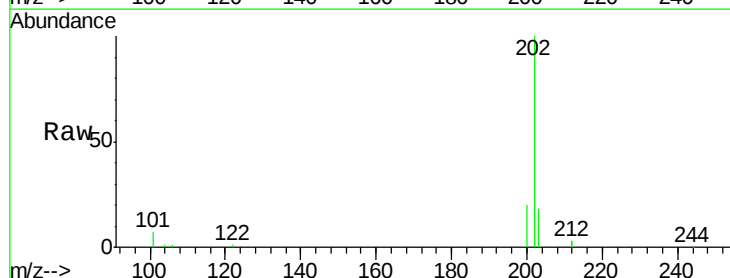
RT: 19.25 min Scan# 1389

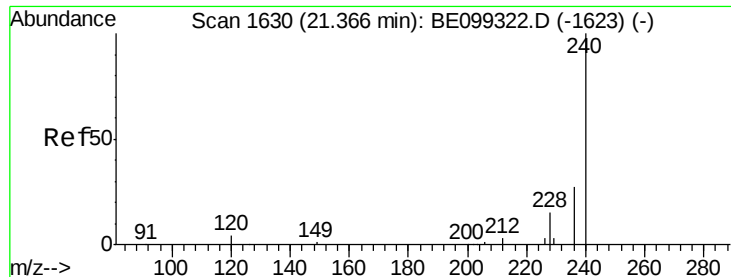
Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Tgt Ion:202	Resp:	39772
Ion Ratio	Lower	Upper
202	100	
101	7.6	6.4 9.6
203	17.7	13.5 20.3





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

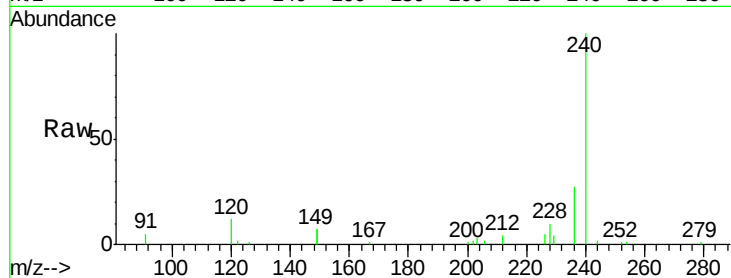
Tot Ion:240 Resp: 37089

Ion Ratio Lower Upper

240 100

120 12.0 2.2 3.2#

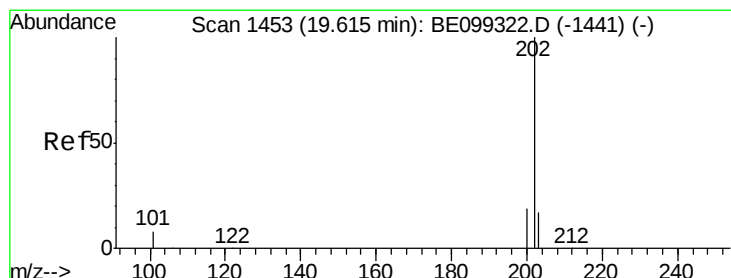
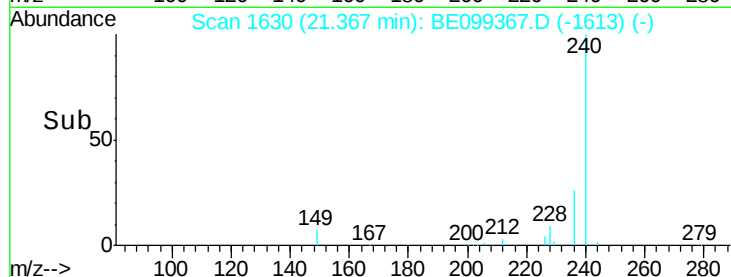
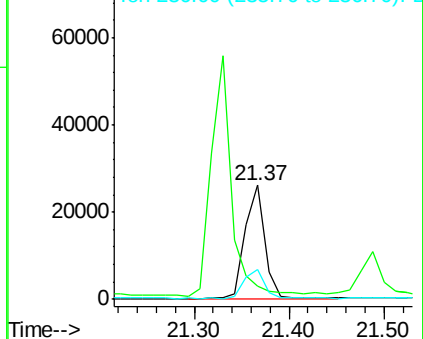
236 26.7 20.2 30.4



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: 0.338 ng

RT: 19.61 min Scan# 1452

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

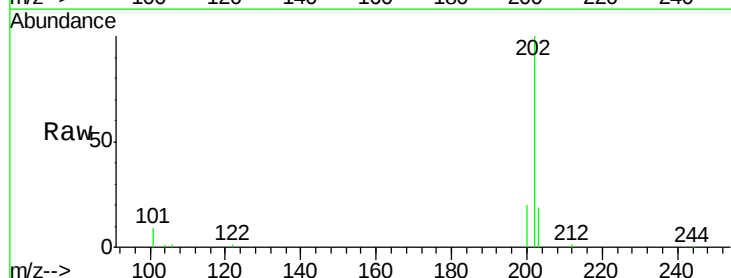
Tgt Ion:202 Resp: 36987

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

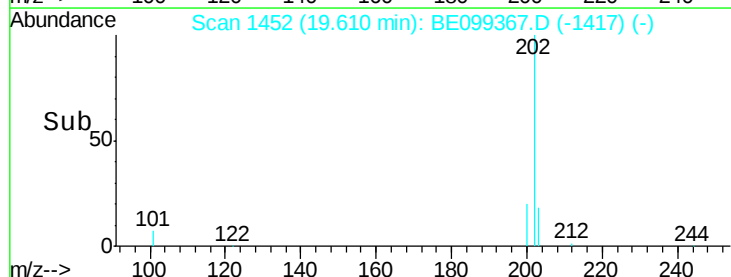
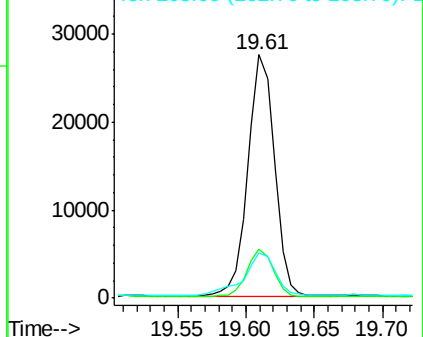
203 21.4 13.7 20.5#

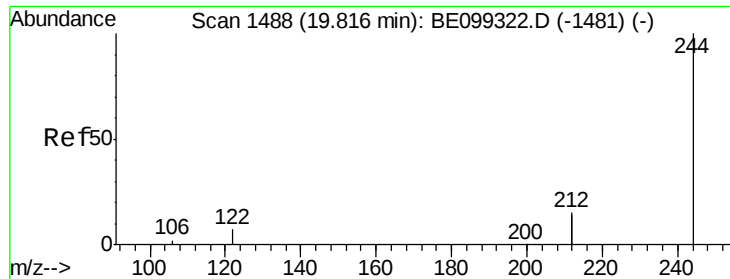


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.473 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

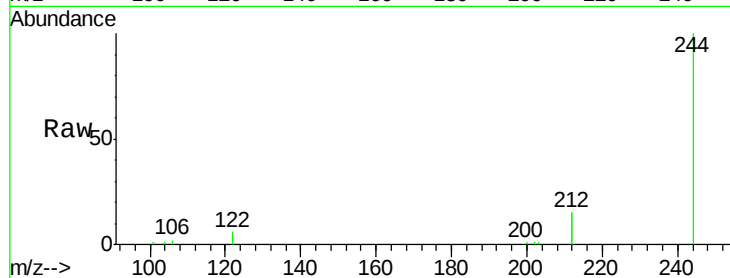
Tot Ion:244 Resp: 34499

Ion Ratio Lower Upper

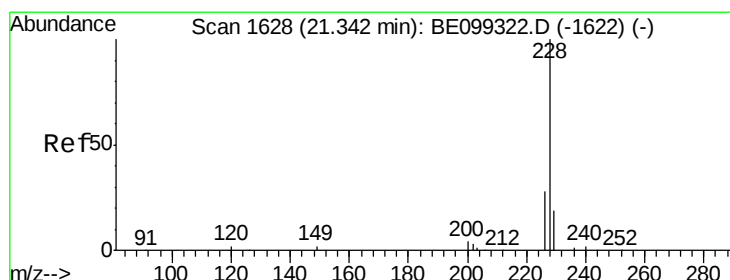
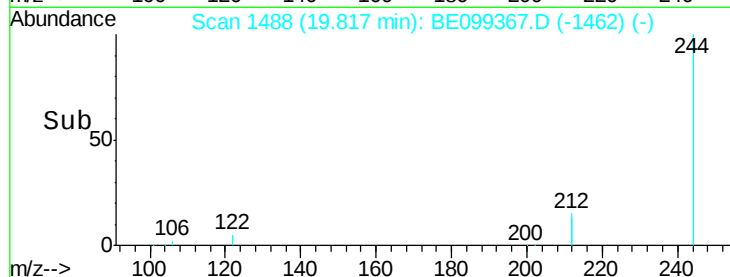
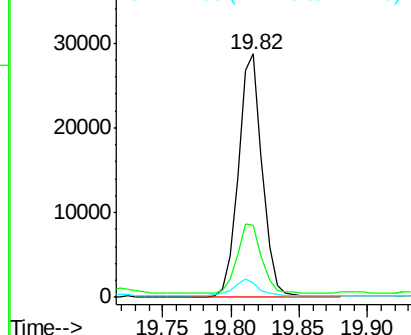
244 100

212 29.4 22.6 33.8

122 5.9 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: 0.207 ng

RT: 21.34 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

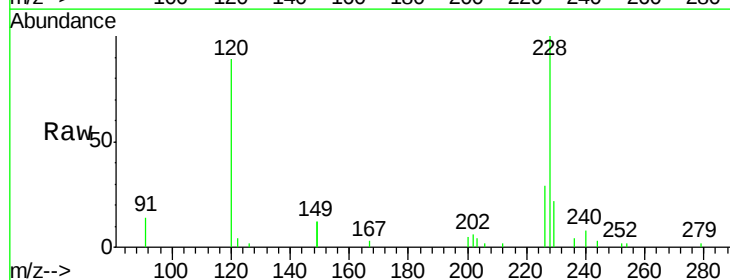
Tgt Ion:228 Resp: 22564

Ion Ratio Lower Upper

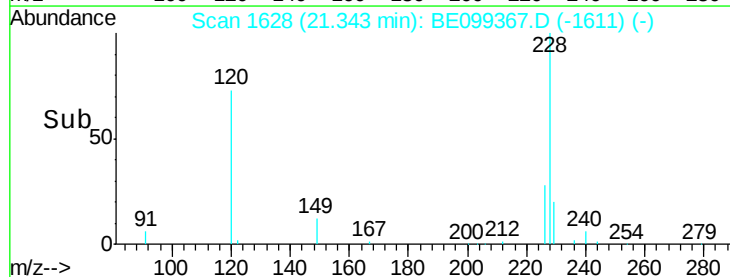
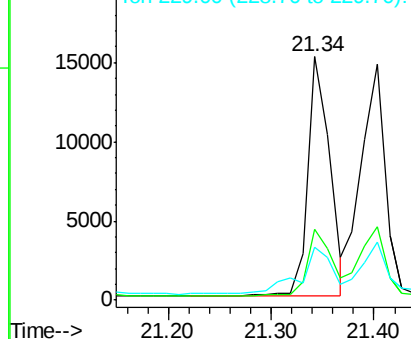
228 100

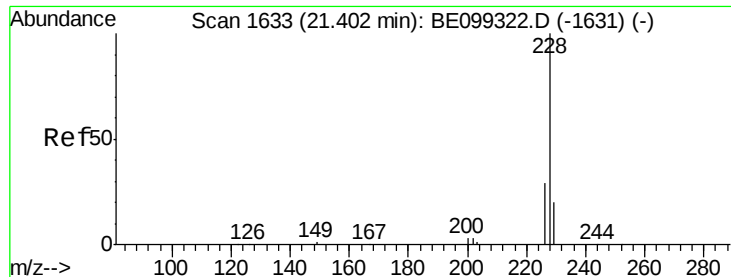
226 29.3 22.0 33.0

229 21.9 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: 0.131 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.06 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

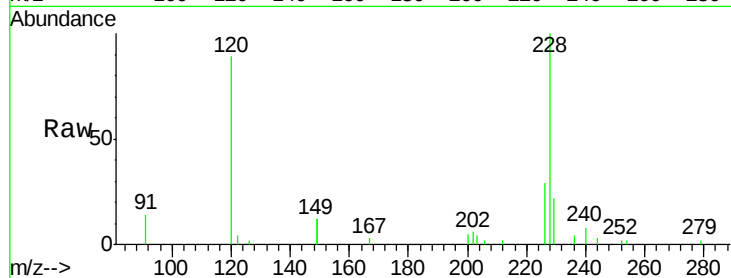
Tot Ion:228 Resp: 15239

Ion Ratio Lower Upper

228 100

226 29.3 23.4 35.2

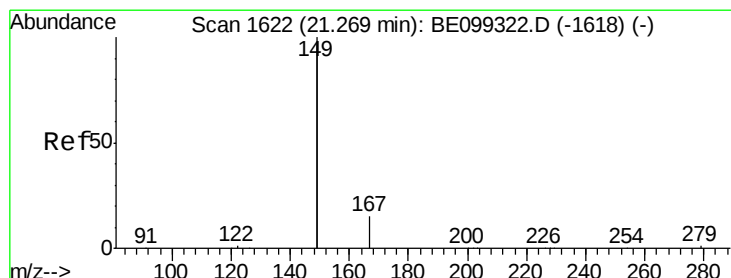
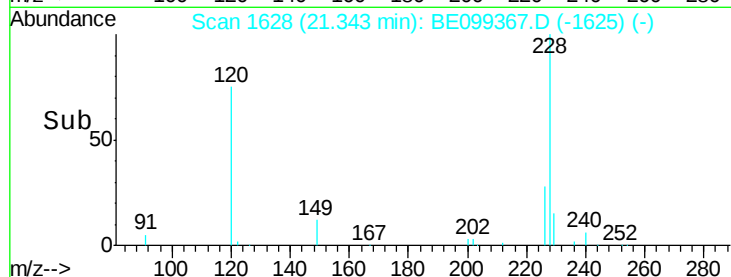
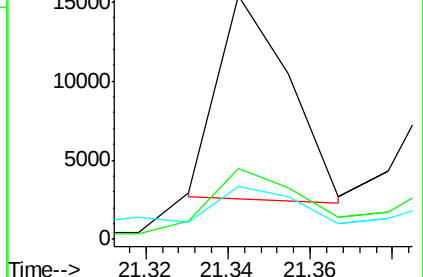
229 21.9 16.2 24.2



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: 2.021 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

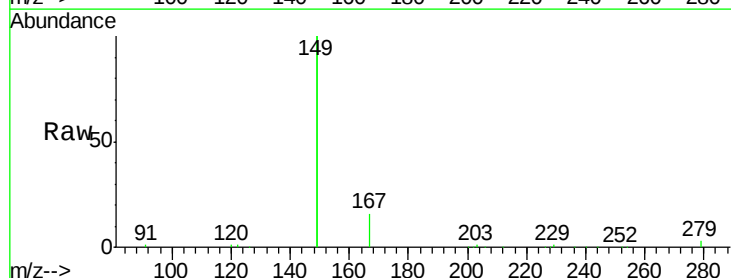
Tgt Ion:149 Resp: 200490

Ion Ratio Lower Upper

149 100

167 7.4 6.0 9.0

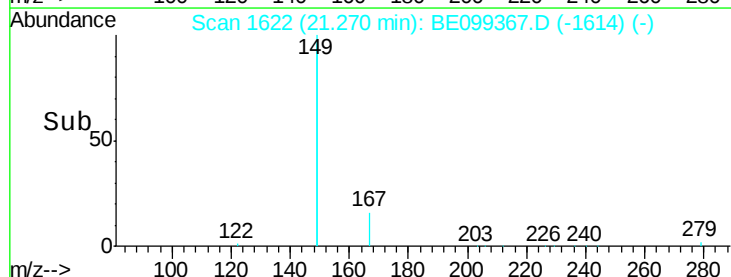
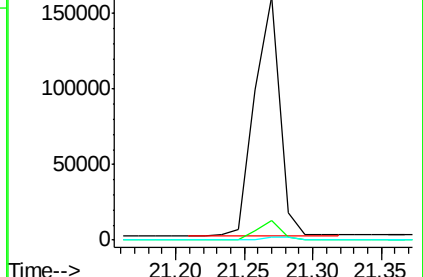
279 1.3 1.1 1.7

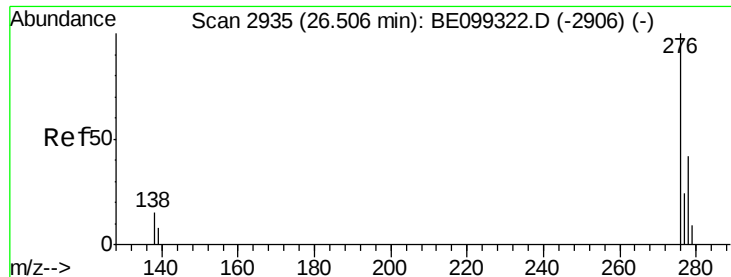


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.122 ng

RT: 26.51 min Scan# 2935

Delta R.T. 0.01 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

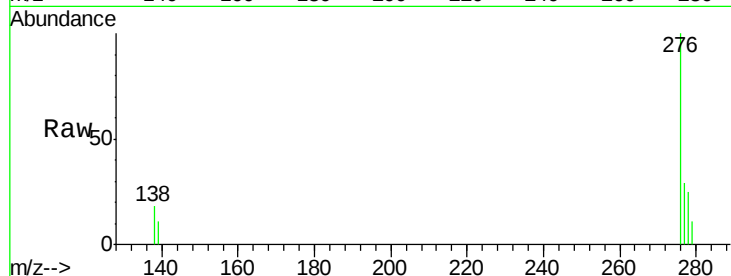
Tot Ion:276 Resp: 13937

Ion Ratio Lower Upper

276 100

138 11.6 12.7 19.1#

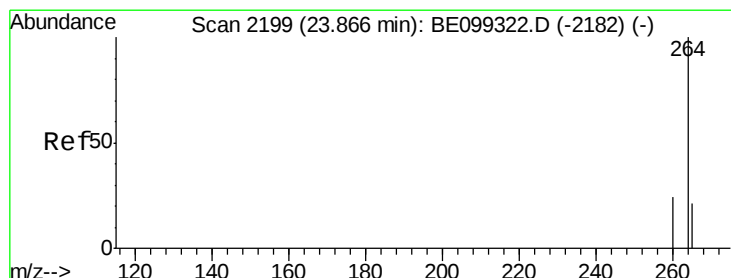
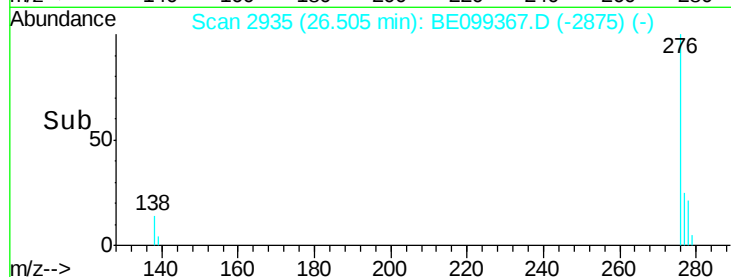
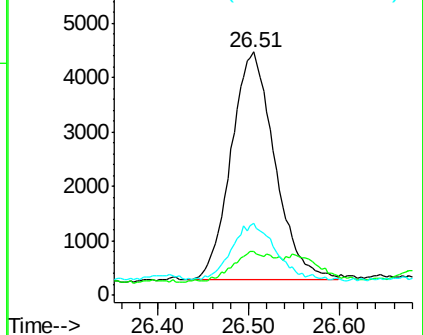
277 25.1 19.6 29.4



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: 23.86 min Scan# 2198

Delta R.T. 0.00 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

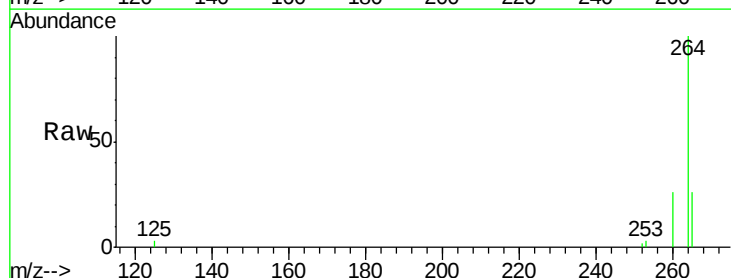
Tgt Ion:264 Resp: 41748

Ion Ratio Lower Upper

264 100

260 26.0 20.1 30.1

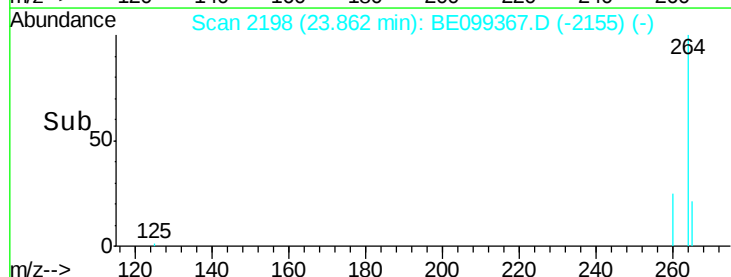
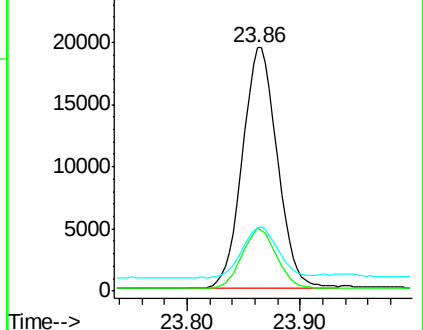
265 25.9 19.9 29.9

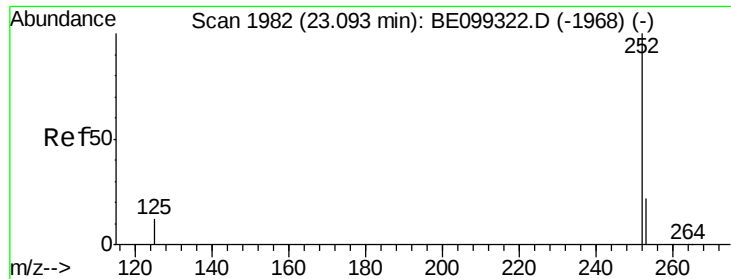


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.229 ng

RT: 23.09 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

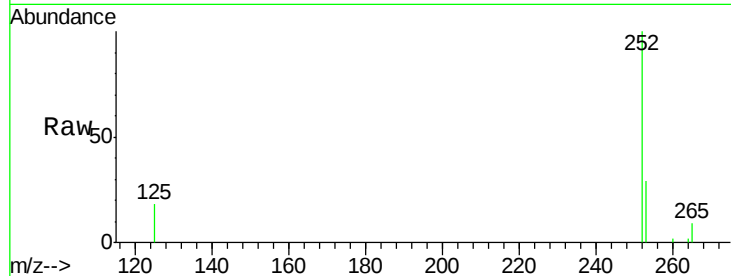
Tot Ion:252 Resp: 29257

Ion Ratio Lower Upper

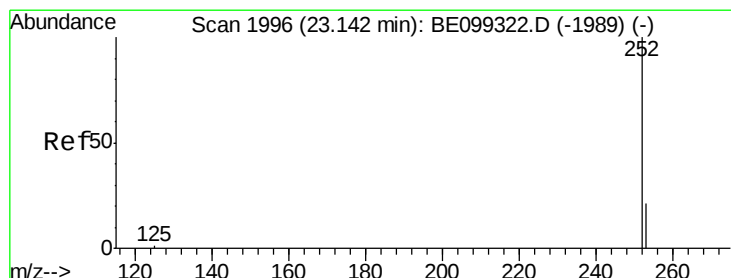
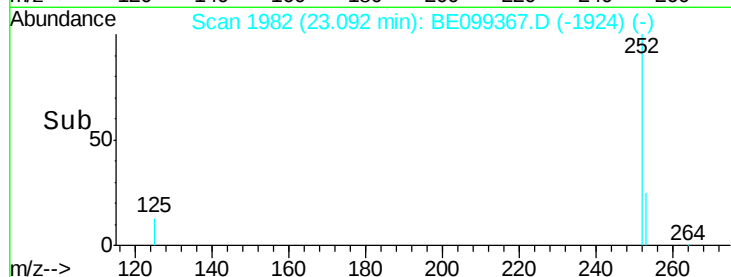
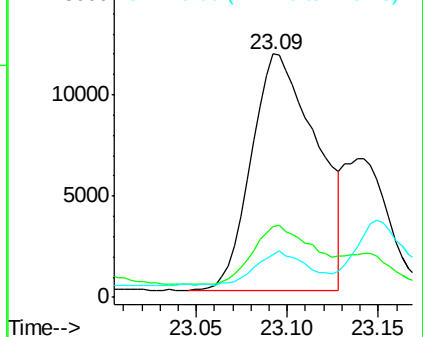
252 100

253 29.0 17.3 25.9#

125 17.5 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: 0.230 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.04 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

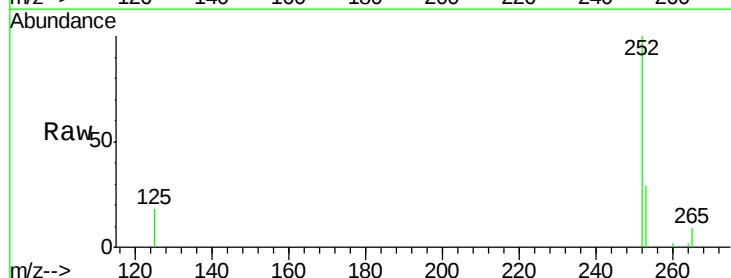
Tgt Ion:252 Resp: 29257

Ion Ratio Lower Upper

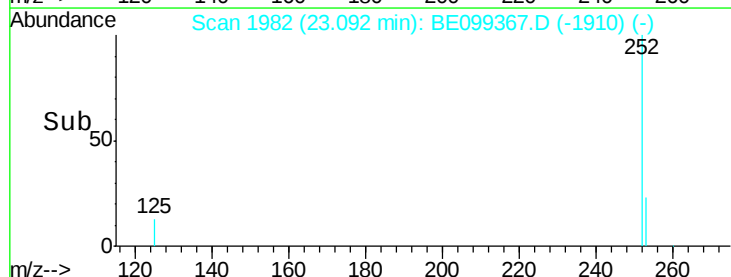
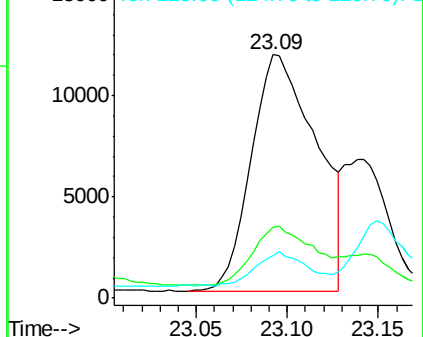
252 100

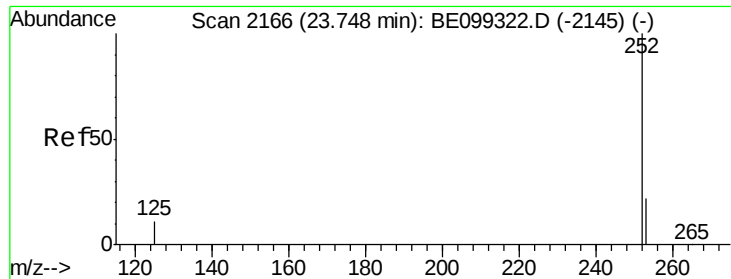
253 29.0 18.4 27.6#

125 17.5 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: 0.174 ng

RT: 23.75 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219

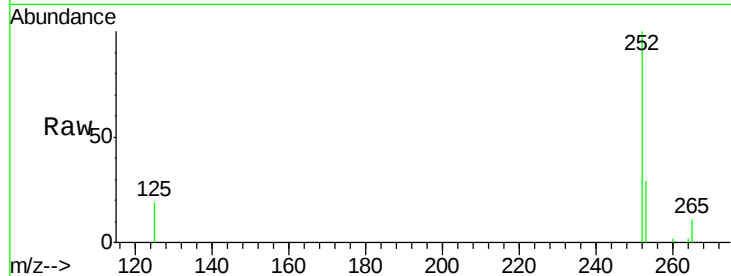
Tot Ion:252 Resp: 19893

Ion Ratio Lower Upper

252 100

253 29.3 17.6 26.4#

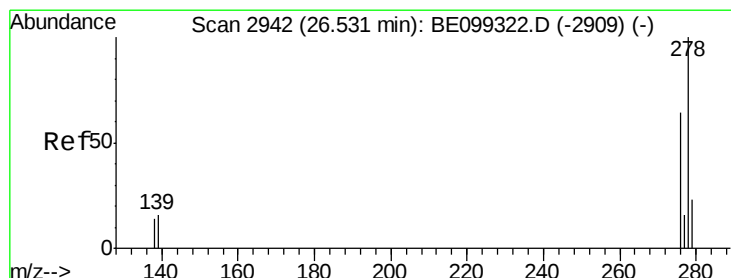
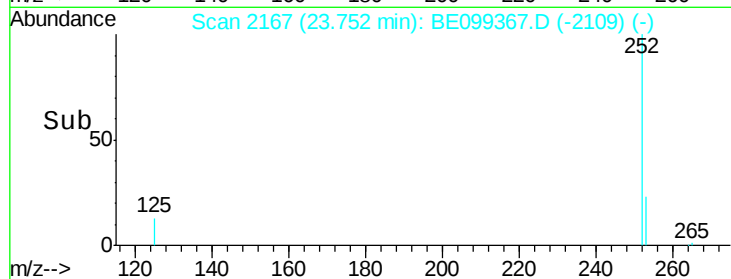
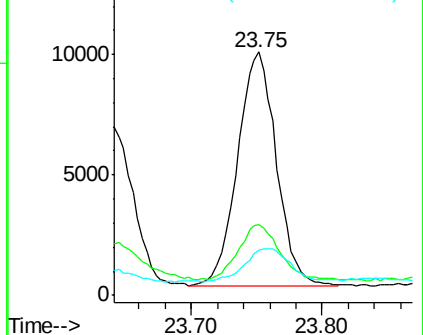
125 18.6 6.5 9.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.033 ng

RT: 26.53 min Scan# 2941

Delta R.T. 0.01 min

Lab File: BE099367.D

Acq: 25 Apr 2019 18:37

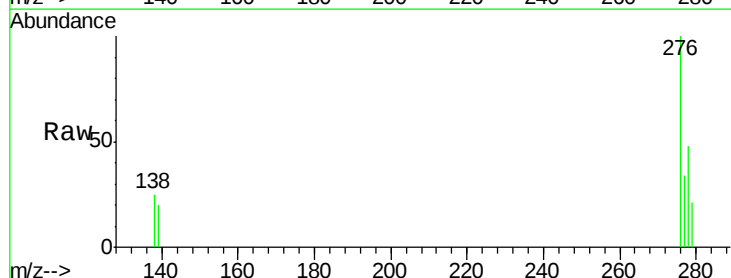
Tgt Ion:278 Resp: 3912

Ion Ratio Lower Upper

278 100

139 42.2 8.5 12.7#

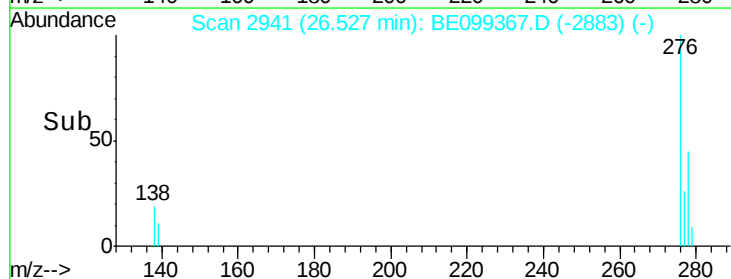
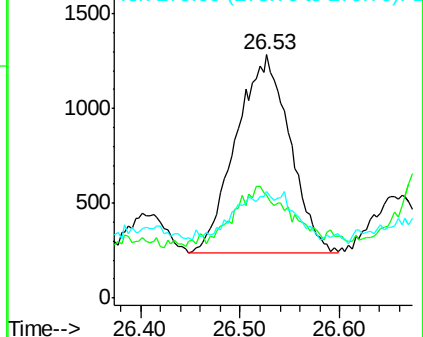
279 43.5 19.8 29.8#

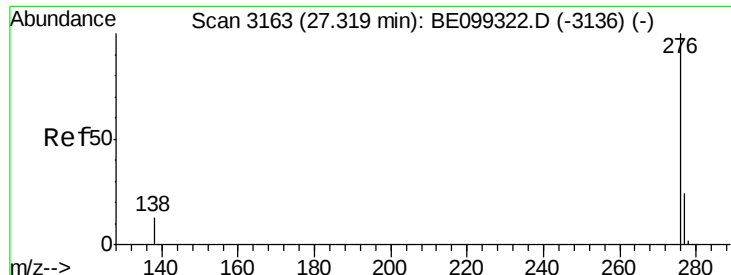


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.113 ng

RT: 27.33 min Scan# 3165

Delta R.T. 0.02 min

Lab File: BE099367.D

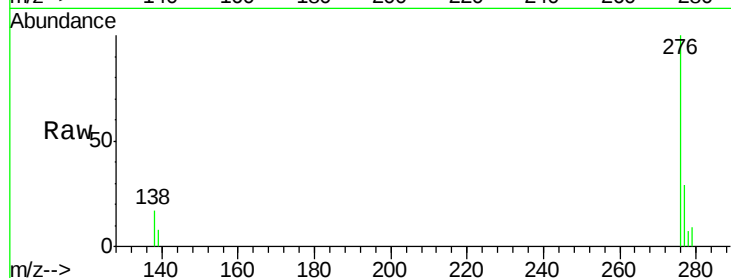
Acq: 25 Apr 2019 18:37

Instrument :

BNA_E

ClientSampleId :

EXT-074-SW063-042219



Tot Ion: 276 Resp: 13351

Ion Ratio Lower Upper

276 100

277 29.2 20.0 30.0

138 17.0 11.1 16.7

