

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099400.D
 Acq On : 27 Apr 2019 4:56
 Operator : JU/SJ
 Sample : K2533-14
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW001-042219

Quant Time: Apr 29 00:57:08 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	3664	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	15129	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	11151	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29379	0.40	ng	0.01
27) Chrysene-d12	21.37	240	32733	0.40	ng	0.00
34) Perylene-d12	23.88	264	36783	0.40	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.40	112	3919	0.44	ng	0.01
5) Phenol-d6	6.98	99	5749	0.45	ng	0.00
8) Nitrobenzene-d5	8.98	82	5284	0.45	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	9569	0.36	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2420	0.65	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	13933	0.32	ng	0.00
25) Fluoranthene-d10	19.22	212	107584	0.30	ng	0.00
29) Terphenyl-d14	19.82	244	17654	0.27	ng	0.00

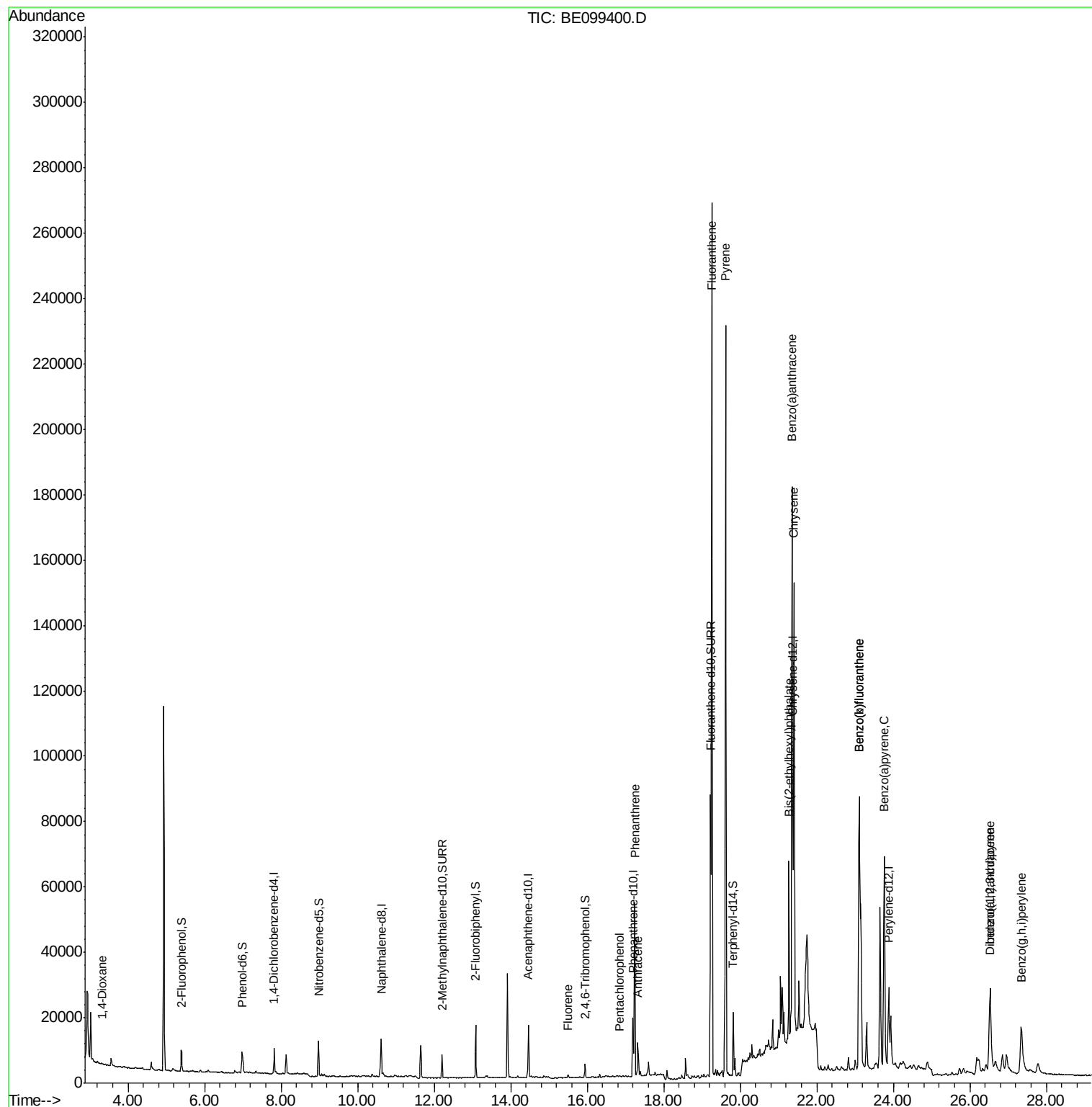
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.31	88	142	0.028	ng	# 1
18) Fluorene	15.50	166	904	0.020	ng	# 93
22) Pentachlorophenol	16.84	266	38	0.226	ng	# 65
23) Phenanthrene	17.24	178	63109	0.811	ng	100
24) Anthracene	17.32	178	11198	0.162	ng	99
26) Fluoranthene	19.25	202	255058	2.449	ng	98
28) Pyrene	19.61	202	213141	2.210	ng	# 93
30) Benzo(a)anthracene	21.35	228	148655	1.545	ng	99
31) Chrysene	21.40	228	143136	1.398	ng	96
32) Bis(2-ethylhexyl)phthalate	21.27	149	55857	0.638	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.52	276	56805	0.562	ng	# 91
35) Benzo(b)fluoranthene	23.11	252	169735	1.507	ng	96
36) Benzo(k)fluoranthene	23.11	252	169735	1.512	ng	98
37) Benzo(a)pyrene	23.76	252	110327	1.094	ng	98
38) Dibenzo(a,h)anthracene	26.54	278	14623	0.142	ng	# 81
39) Benzo(g,h,i)perylene	27.34	276	50245	0.481	ng	96

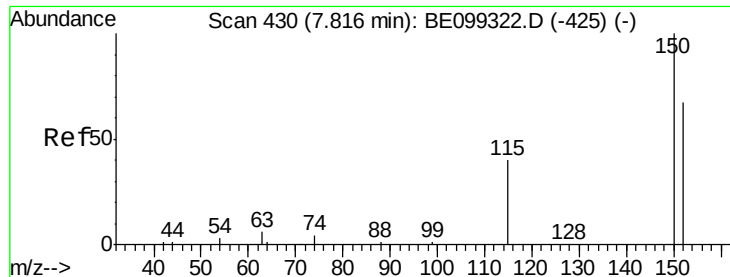
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

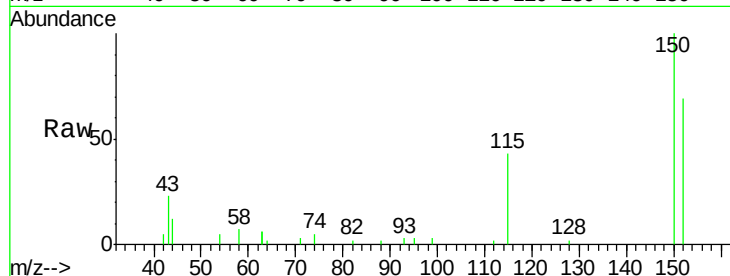
Tot Ion:152 Resp: 3664

Ion Ratio Lower Upper

152 100

150 144.5 119.5 179.3

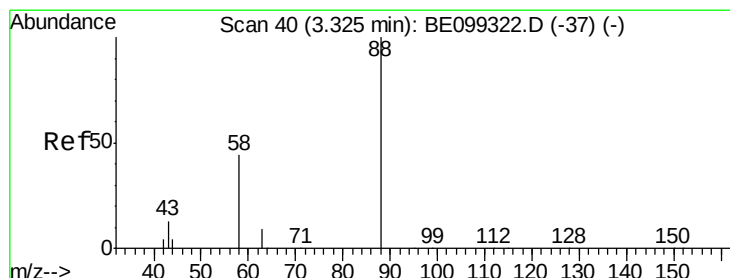
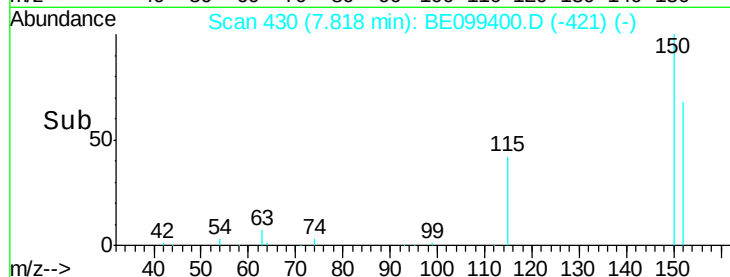
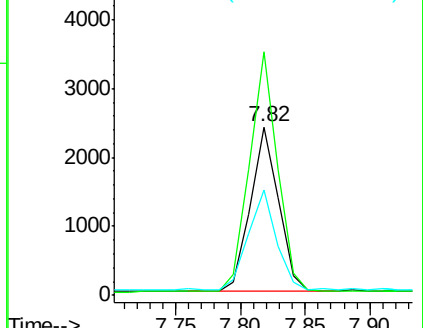
115 62.8 47.5 71.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.028 ng

RT: 3.31 min Scan# 39

Delta R.T. -0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

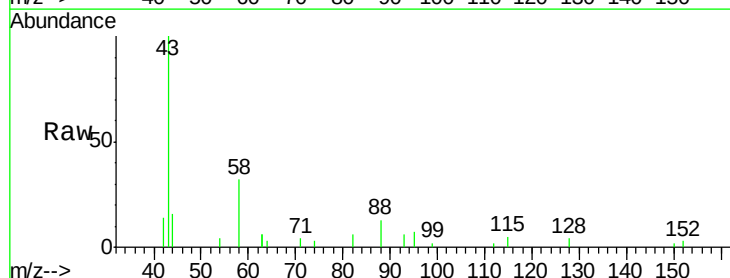
Tgt Ion: 88 Resp: 142

Ion Ratio Lower Upper

88 100

58 166.9 49.1 73.7#

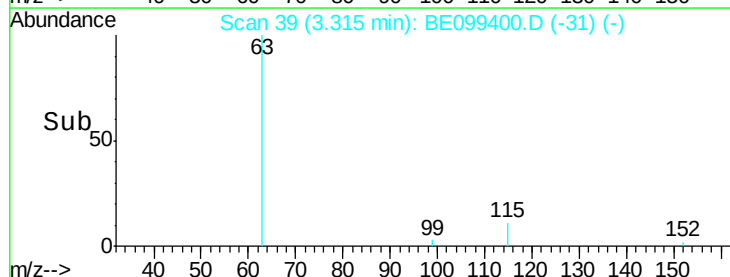
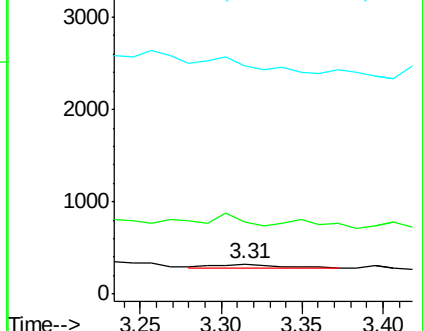
43 0.0 17.9 26.9#

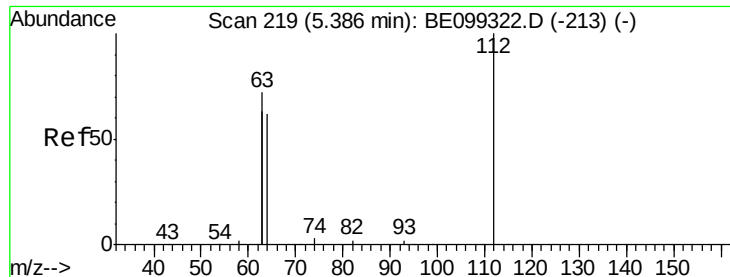


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.438 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

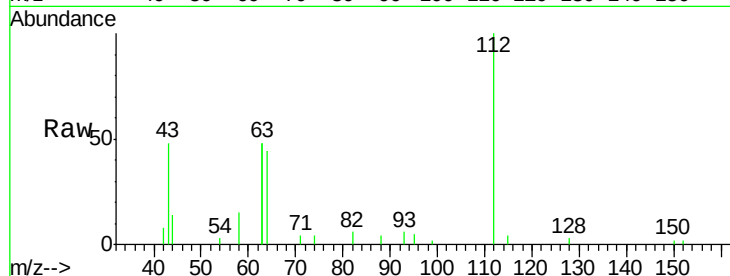
Tot Ion: 112 Resp: 3919

Ion Ratio Lower Upper

112 100

64 57.2 44.9 67.3

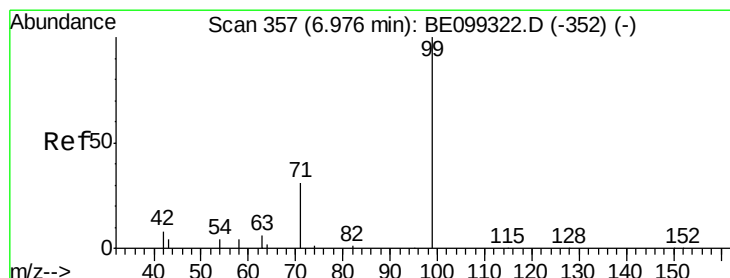
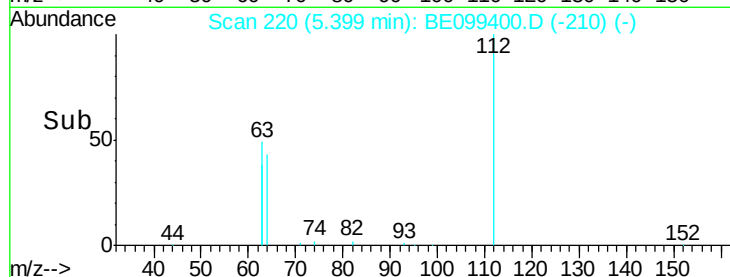
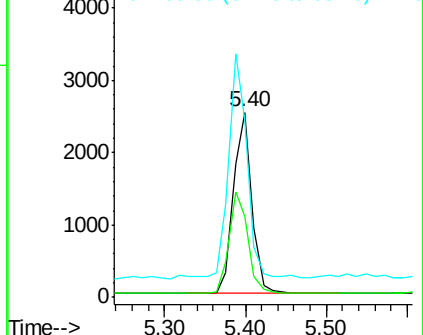
63 127.1 97.4 146.0



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: 0.450 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

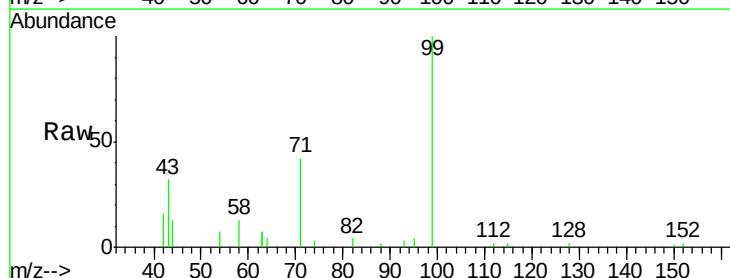
Tgt Ion: 99 Resp: 5749

Ion Ratio Lower Upper

99 100

42 17.5 11.7 17.5

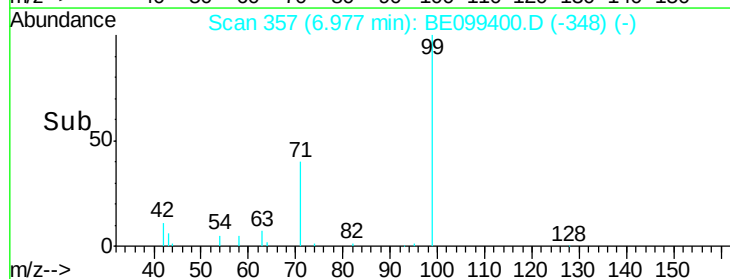
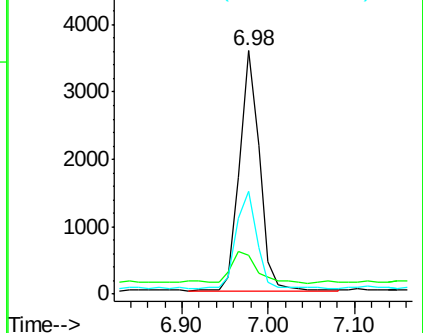
71 41.0 29.6 44.4

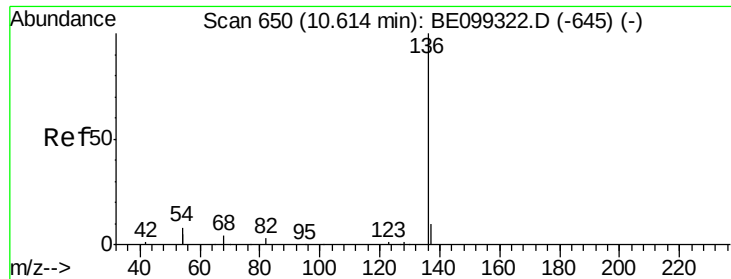


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

Tot Ion:136 Resp: 15129

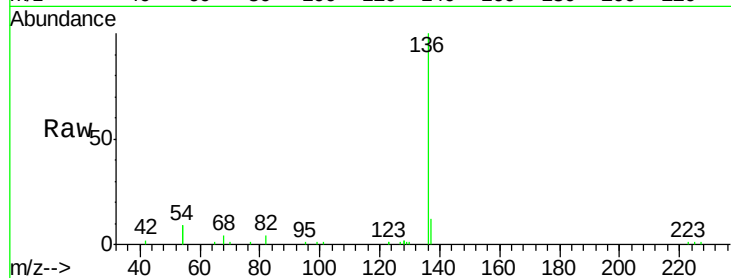
Ion Ratio Lower Upper

136 100

137 11.8 8.7 13.1

54 17.1 23.8 35.8#

68 4.1 6.4 9.6#

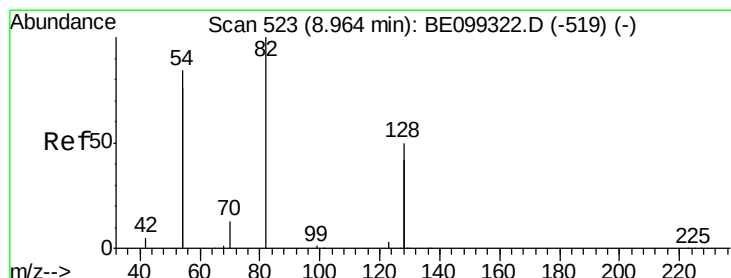
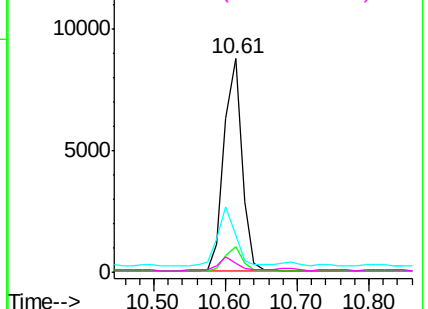
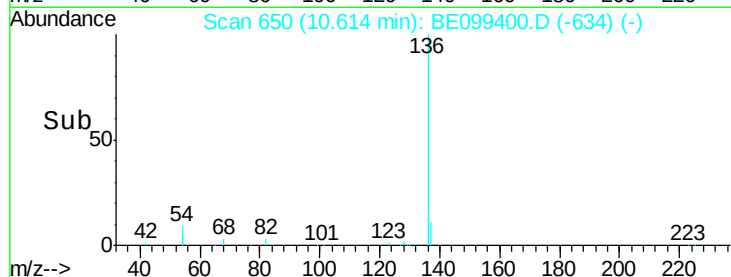


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.450 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

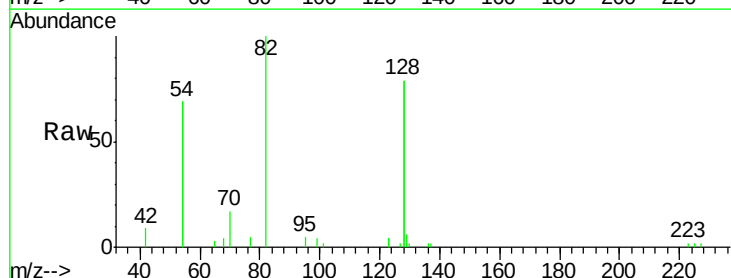
Tgt Ion: 82 Resp: 5284

Ion Ratio Lower Upper

82 100

128 157.7 91.7 137.5#

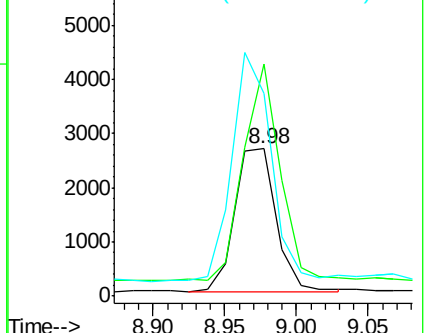
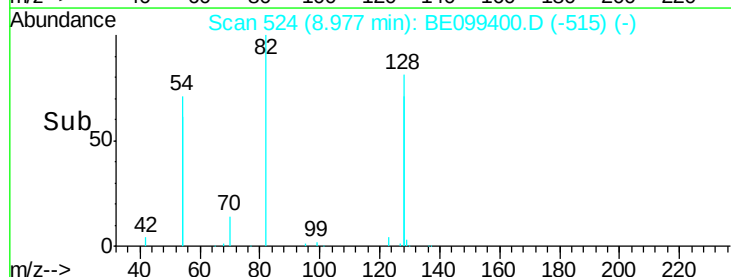
54 137.7 122.8 184.2

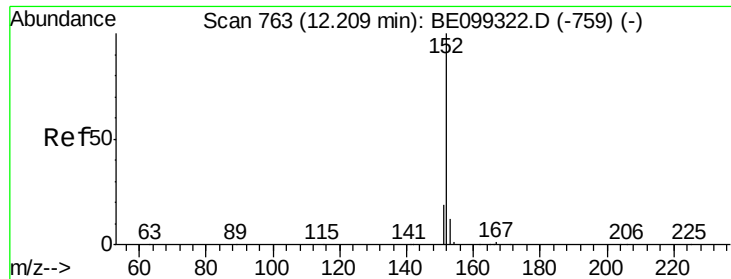


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

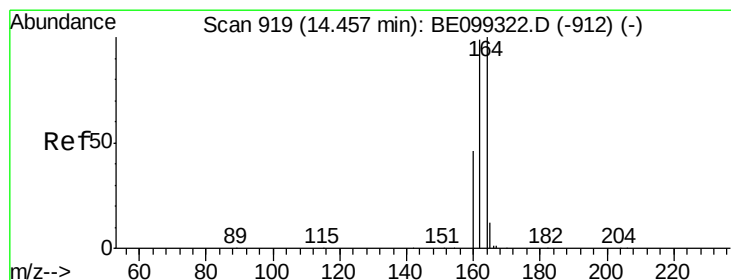
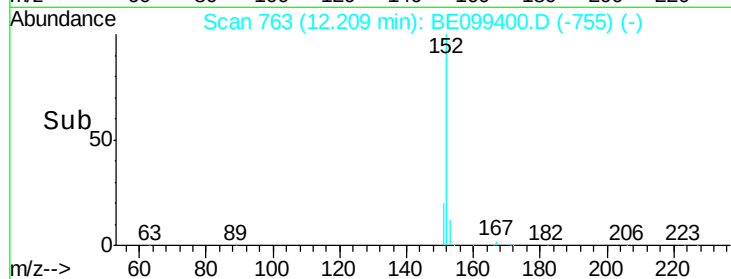
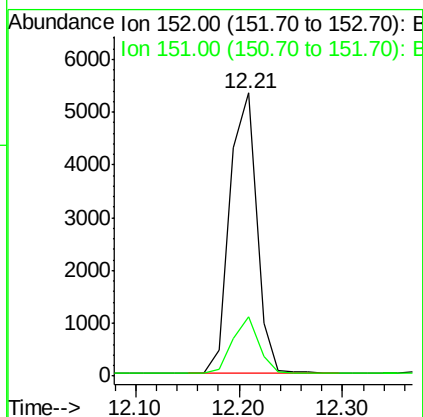
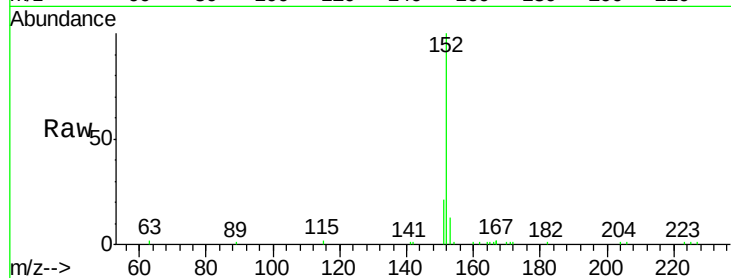




#11
 2-Methylnaphthalene-d10
 Concen: 0.358 ng
 RT: 12.21 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: BE099400.D
 Acq: 27 Apr 2019 4:56

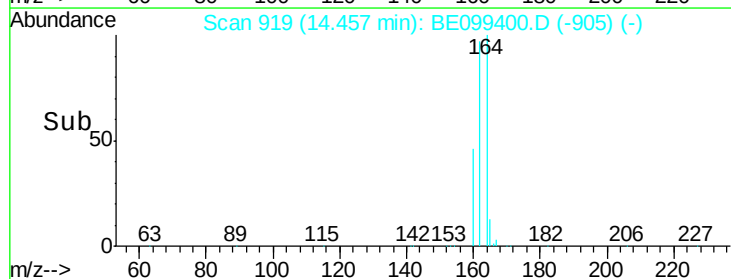
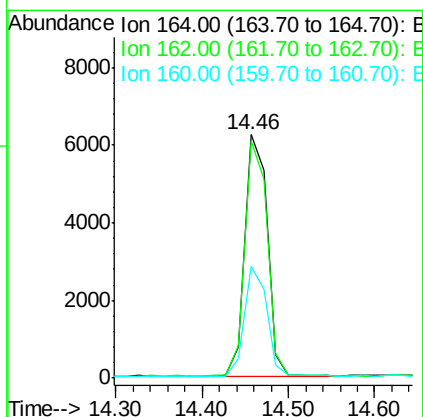
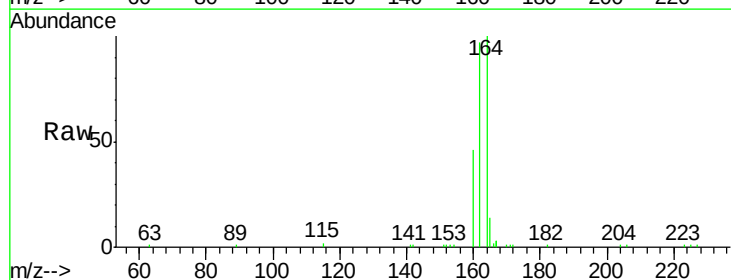
Instrument :
 BNA_E
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 EXT-028-SW001-042219

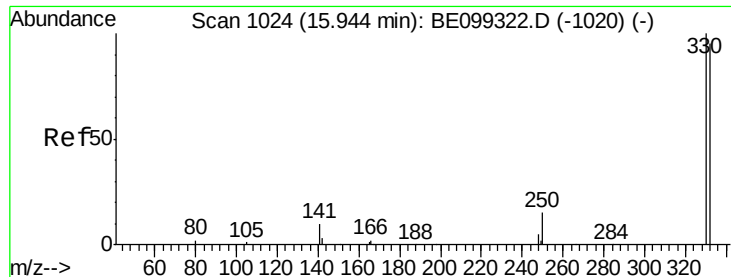
Tot Ion:152 Resp: 9569
 Ion Ratio Lower Upper
 152 100
 151 20.0 14.9 22.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099400.D
 Acq: 27 Apr 2019 4:56

Tgt Ion:164 Resp: 11151
 Ion Ratio Lower Upper
 164 100
 162 97.4 77.8 116.6
 160 46.0 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 0.653 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

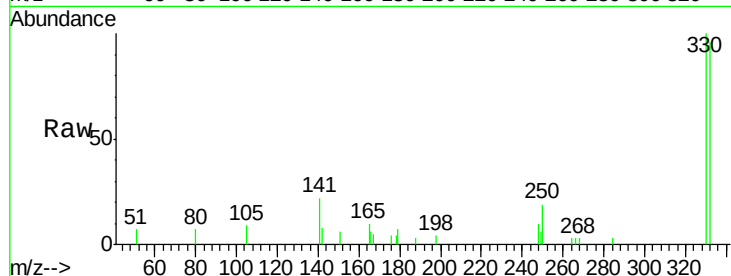
Tot Ion:330 Resp: 2420

Ion Ratio Lower Upper

330 100

332 95.7 82.5 123.7

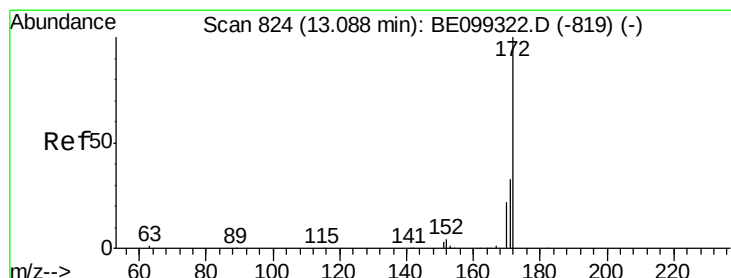
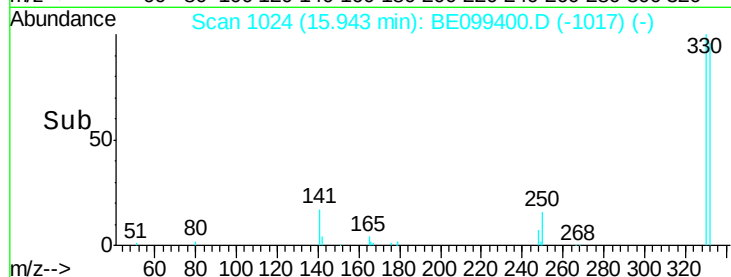
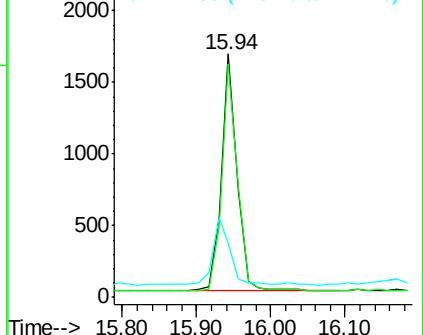
141 30.1 24.9 37.3



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: 0.318 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

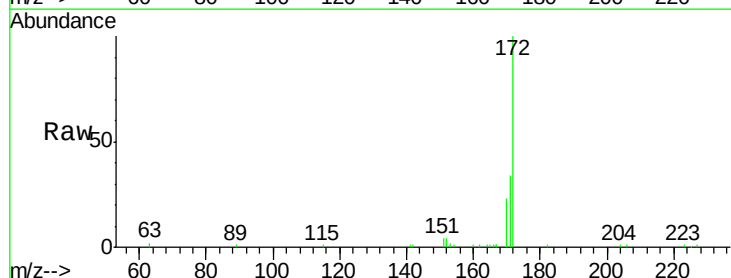
Tgt Ion:172 Resp: 13933

Ion Ratio Lower Upper

172 100

171 34.2 26.2 39.2

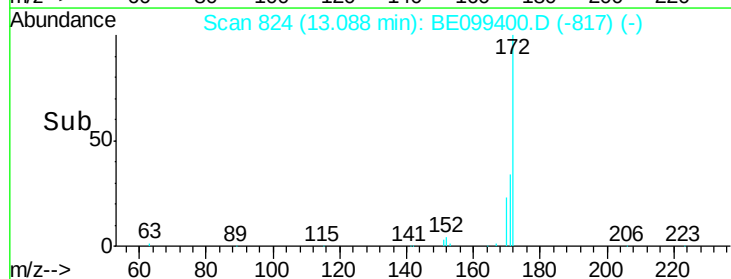
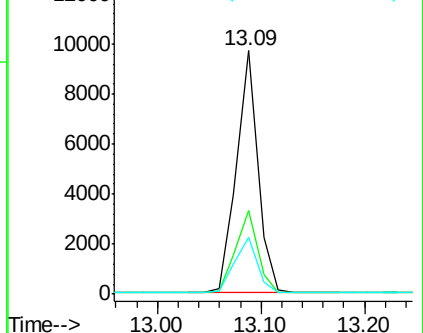
170 23.1 18.1 27.1

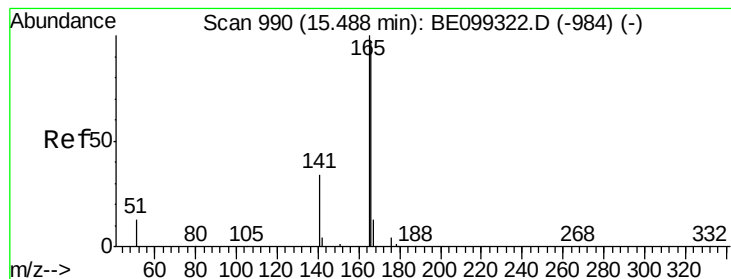


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#18

Fluorene

Concen: 0.020 ng

RT: 15.50 min Scan# 991

Delta R.T. 0.01 min

Lab File: BE099400.D

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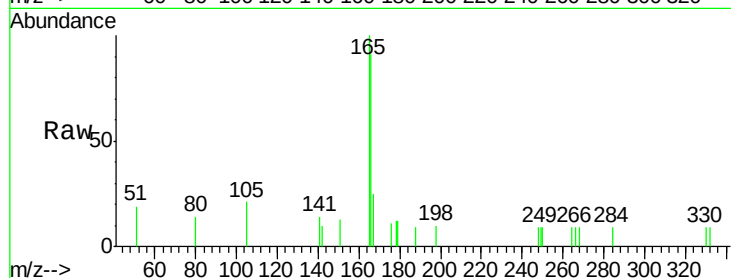
Tot Ion:166 Resp: 904

Ion Ratio Lower Upper

166 100

165 94.1 79.7 119.5

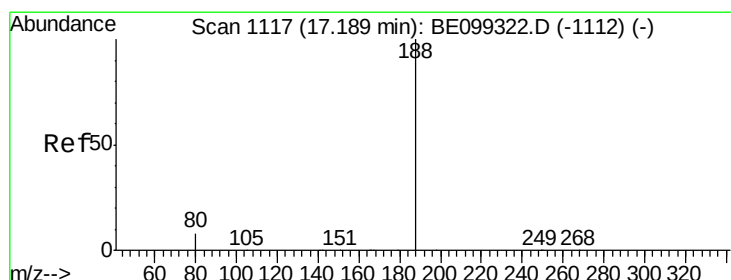
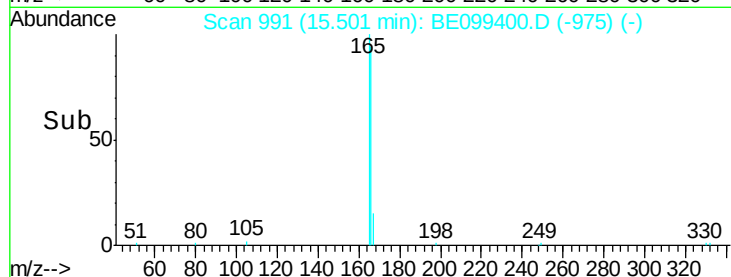
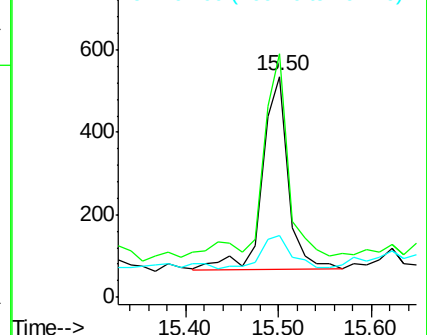
167 20.0 11.0 16.4#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

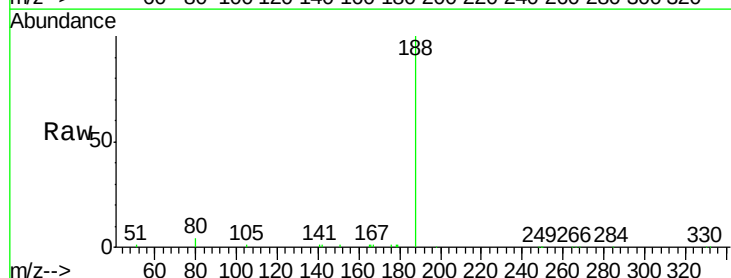
Tgt Ion:188 Resp: 29379

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

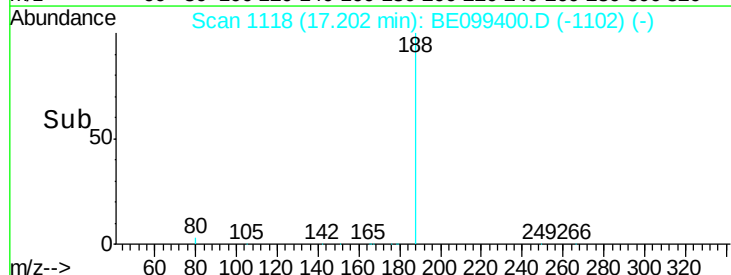
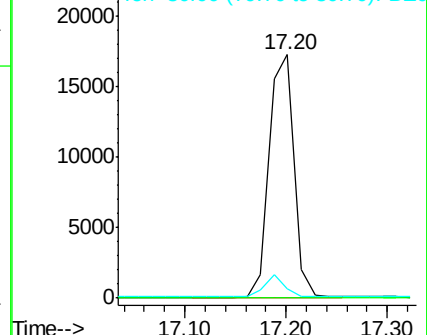
80 4.0 6.2 9.4#

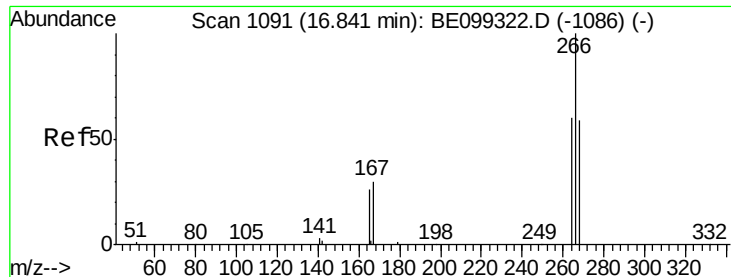


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.226 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099400.D

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EXT-028-SW001-042219

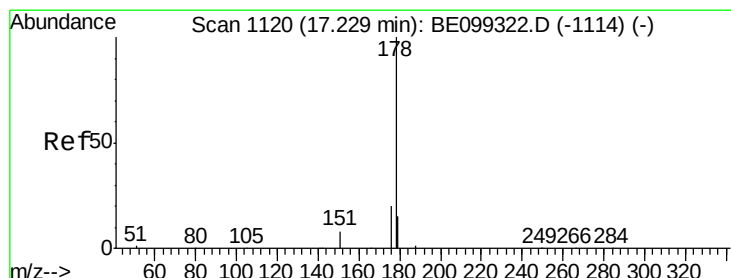
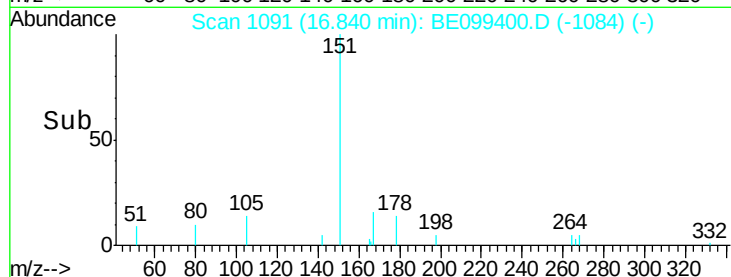
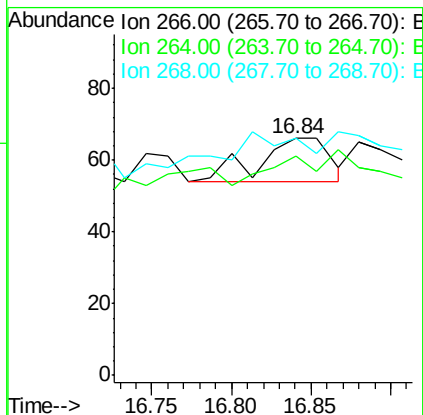
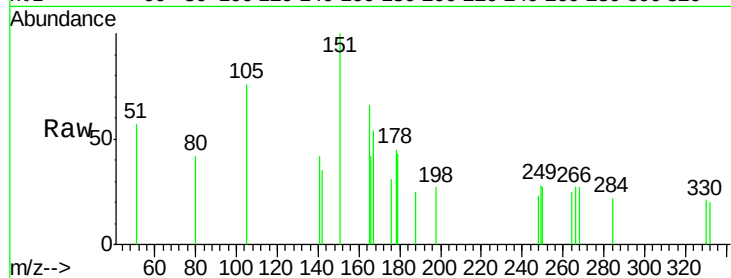
Tot Ion:266 Resp: 38

Ion Ratio Lower Upper

266 100

264 92.4 54.5 81.7#

268 100.0 54.3 81.5#



#23

Phenanthrene

Concen: 0.811 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

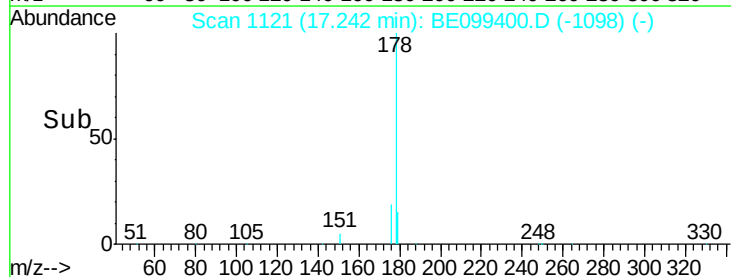
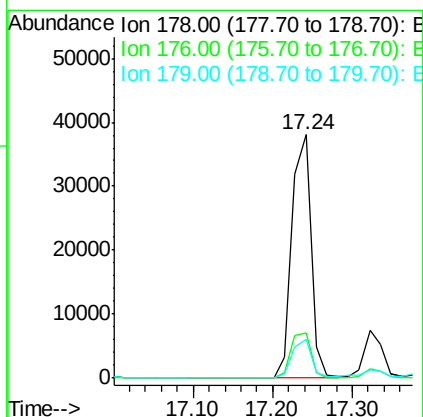
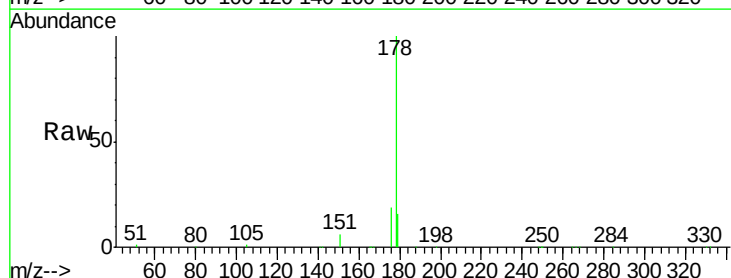
Tgt Ion:178 Resp: 63109

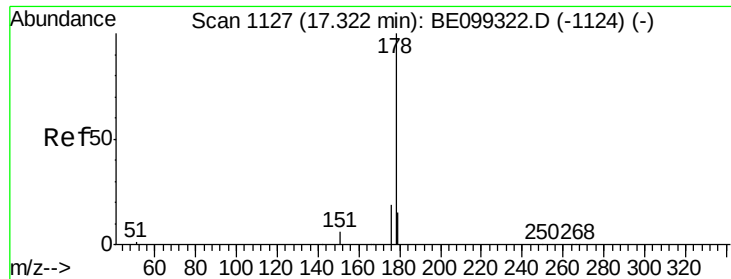
Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.5 12.4 18.6





#24

Anthracene

Concen: 0.162 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

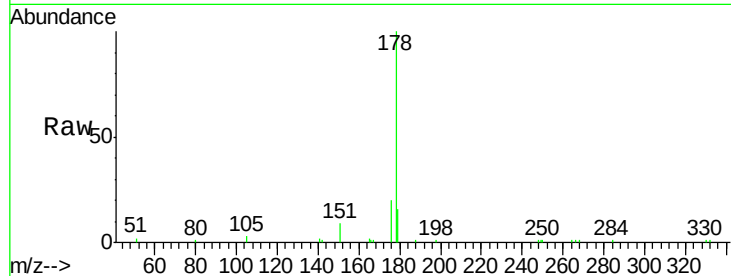
Tot Ion:178 Resp: 11198

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

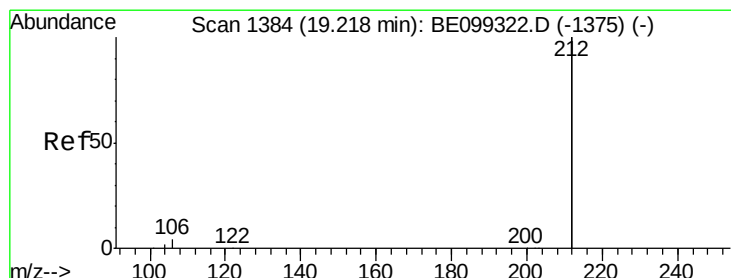
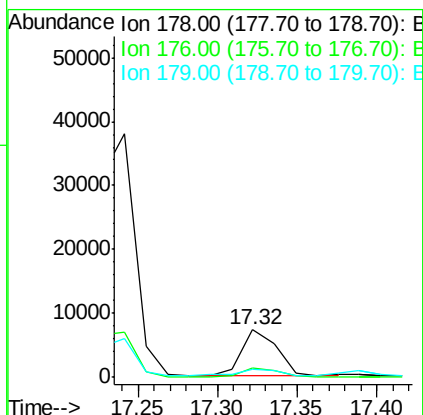
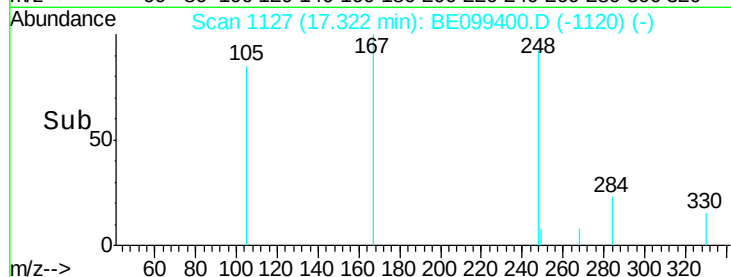
179 16.2 11.9 17.9



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: 0.305 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

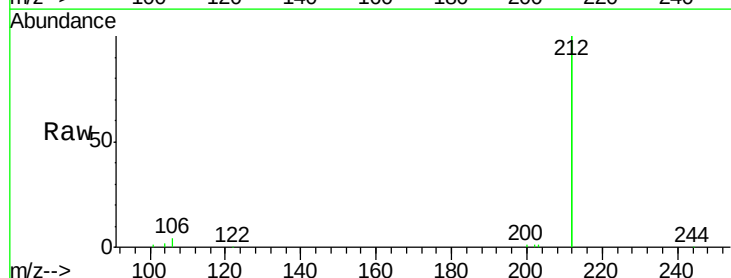
Tgt Ion:212 Resp: 107584

Ion Ratio Lower Upper

212 100

106 1.9 1.8 2.6

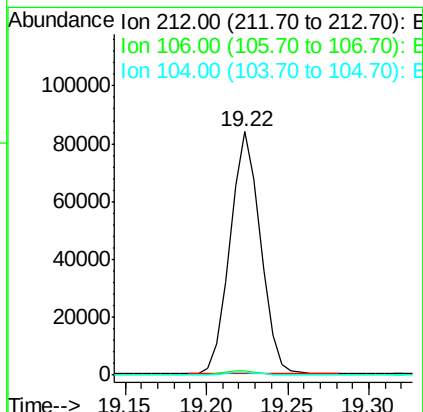
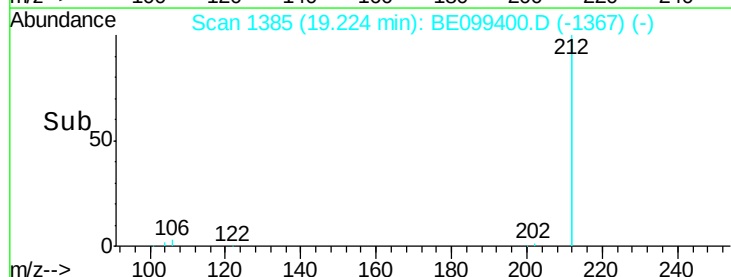
104 1.1 1.0 1.4

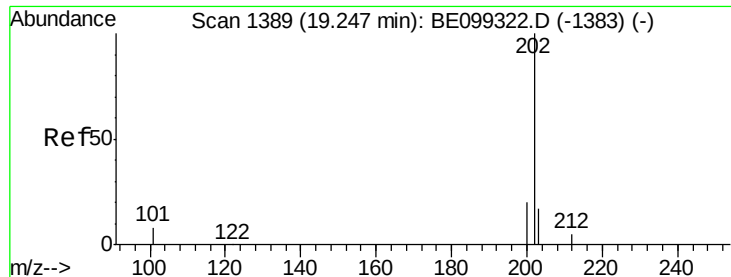


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

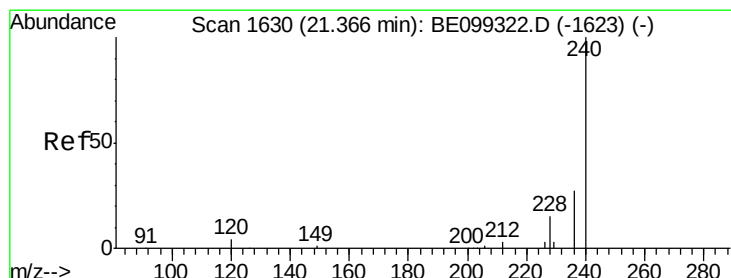
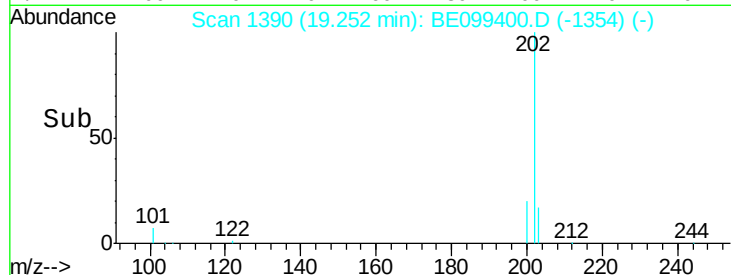
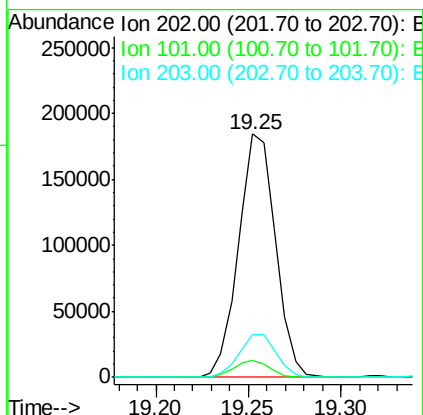
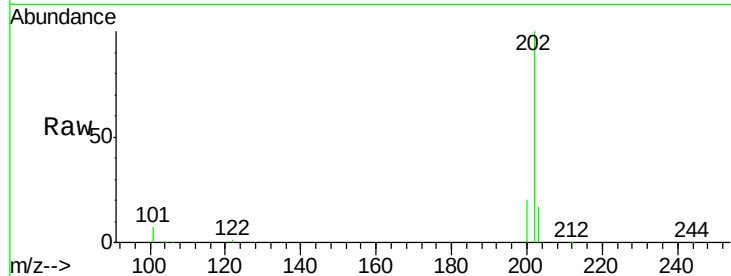




#26
Fluoranthene
Concen: 2.449 ng
RT: 19.25 min Scan# 1390
Delta R.T. 0.01 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

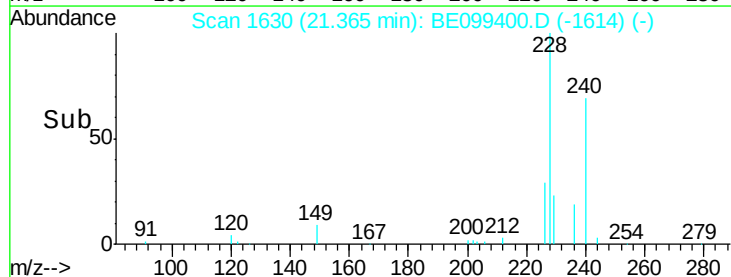
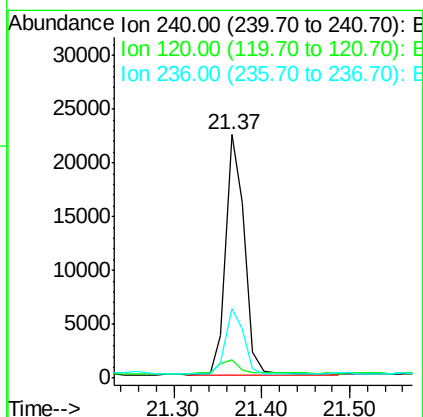
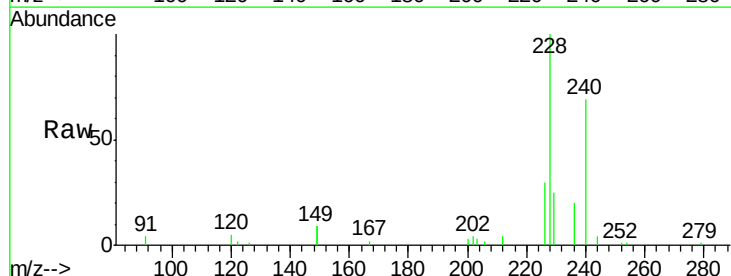
Instrument :
BNA_E
ClientSampleId :
EXT-028-SW001-042219

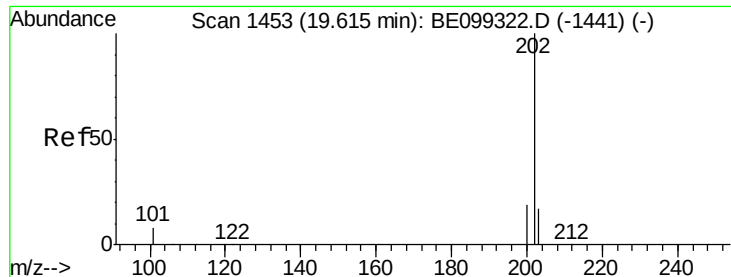
Tot Ion:202 Resp: 255058
Ion Ratio Lower Upper
202 100
101 6.6 6.4 9.6
203 17.4 13.5 20.3



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

Tgt Ion:240 Resp: 32733
Ion Ratio Lower Upper
240 100
120 7.5 2.2 3.2#
236 28.7 20.2 30.4





#28

Pvrene

Concen: 2.210 ng

RT: 19.61 min Scan# 1453

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

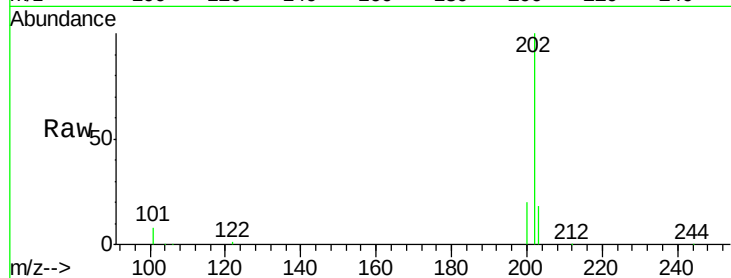
Instrument :

BNA_E

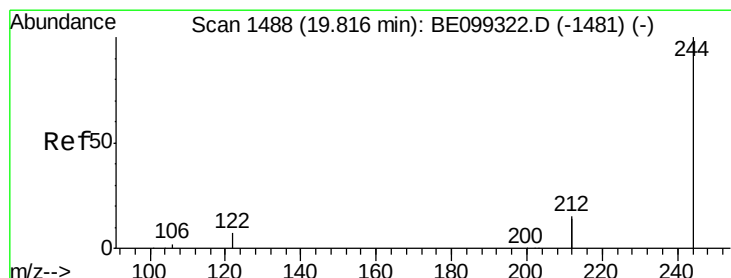
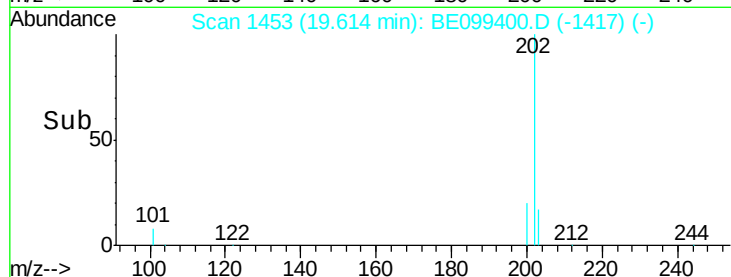
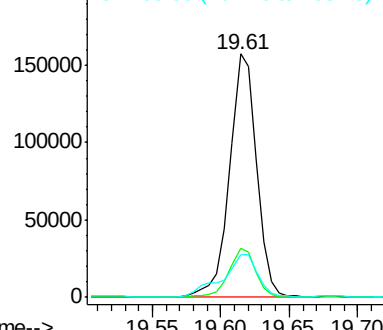
ClientSampleId :

EXT-028-SW001-042219

Tot Ion:	202	Resp:	213141
Ion	Ratio	Lower	Upper
202	100		
200	20.1	15.7	23.5
203	22.8	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: 0.274 ng

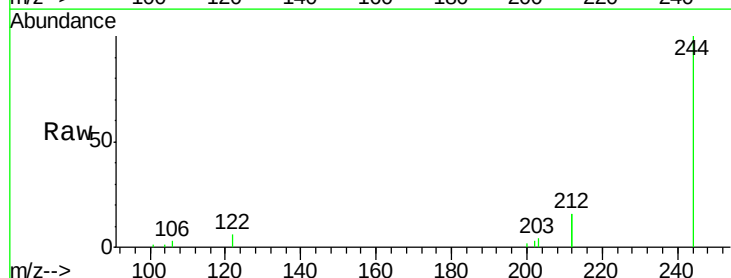
RT: 19.82 min Scan# 1489

Delta R.T. 0.01 min

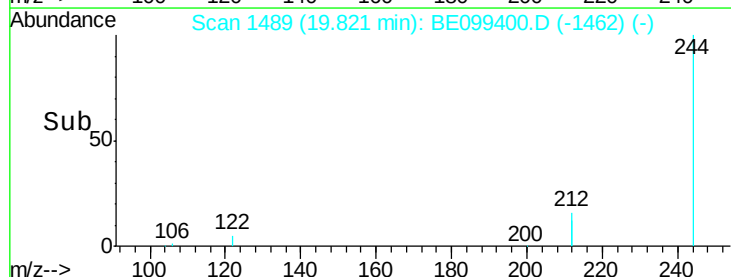
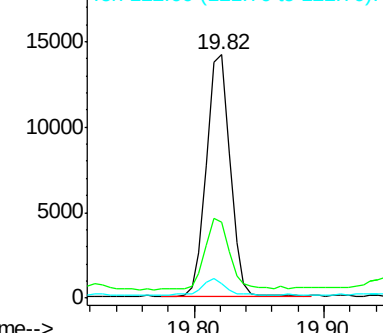
Lab File: BE099400.D

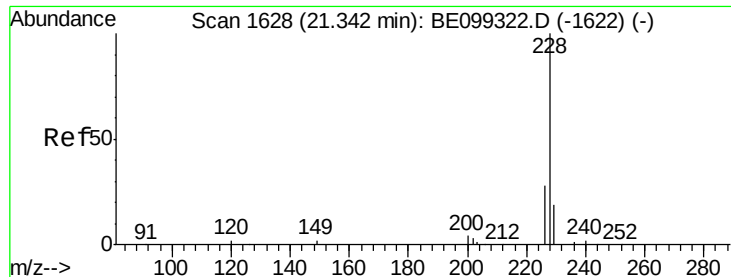
Acq: 27 Apr 2019 4:56

Tgt Ion:	244	Resp:	17654
Ion	Ratio	Lower	Upper
244	100		
212	31.3	22.6	33.8
122	6.0	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: 1.545 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

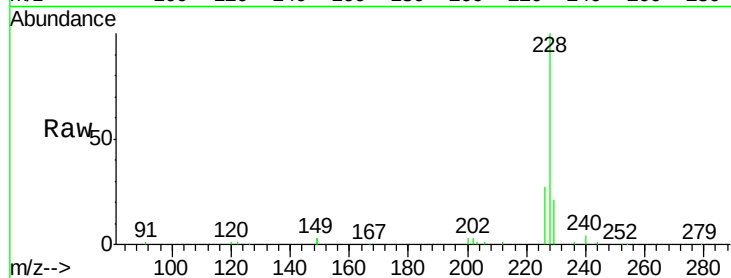
Tot Ion:228 Resp: 148655

Ion Ratio Lower Upper

228 100

226 27.1 22.0 33.0

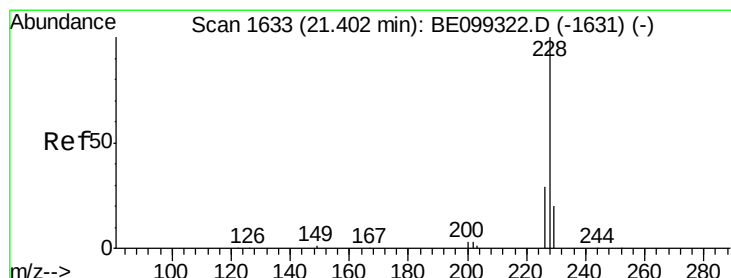
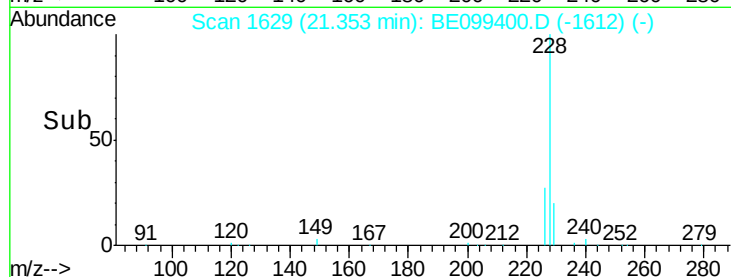
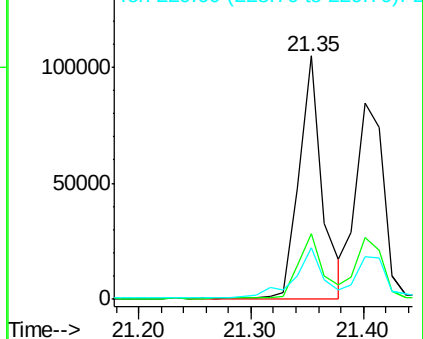
229 21.0 15.8 23.8



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: 1.398 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

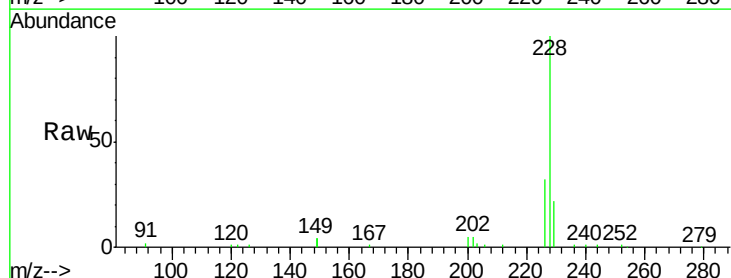
Tgt Ion:228 Resp: 143136

Ion Ratio Lower Upper

228 100

226 31.7 23.4 35.2

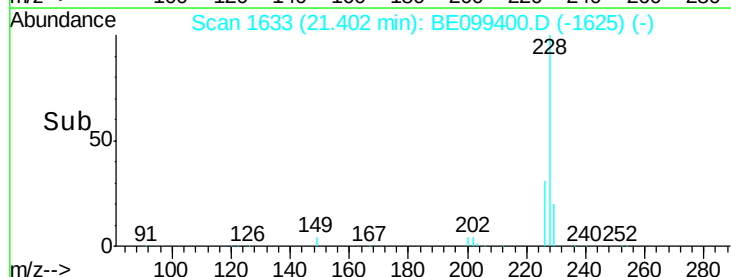
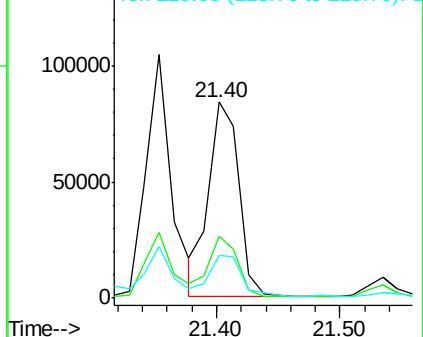
229 21.9 16.2 24.2

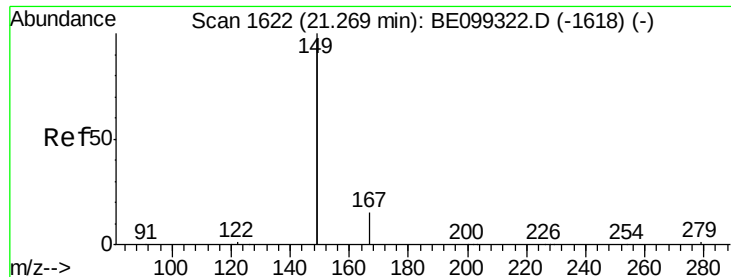


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.638 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW001-042219

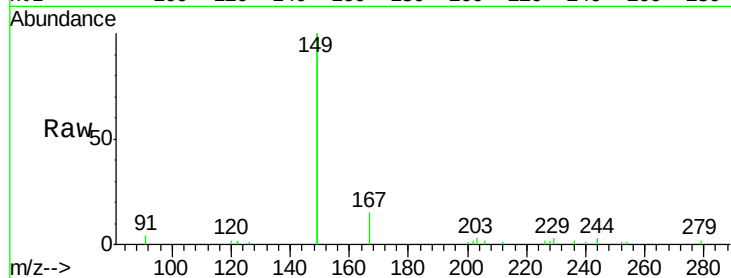
Tot Ion:149 Resp: 55857

Ion Ratio Lower Upper

149 100

167 7.7 6.0 9.0

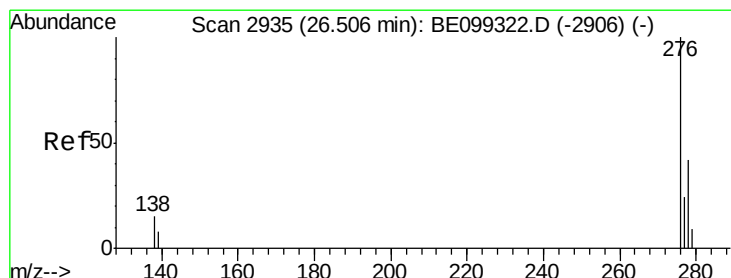
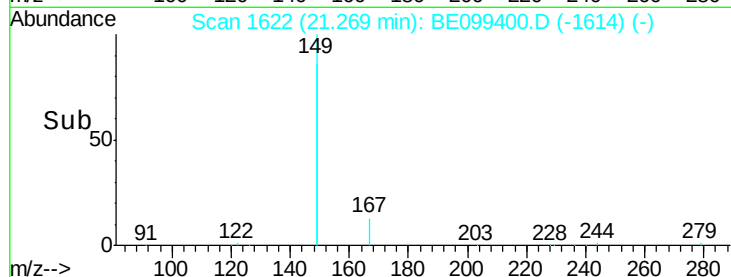
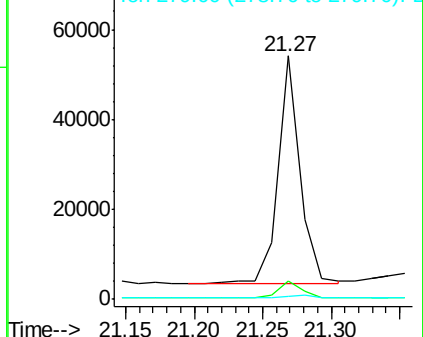
279 2.0 1.1 1.7#



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: 0.562 ng

RT: 26.52 min Scan# 2940

Delta R.T. 0.03 min

Lab File: BE099400.D

Acq: 27 Apr 2019 4:56

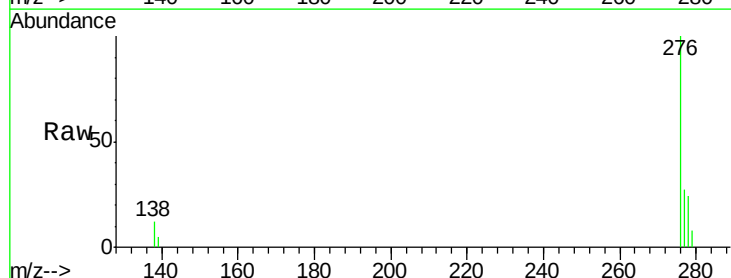
Tgt Ion:276 Resp: 56805

Ion Ratio Lower Upper

276 100

138 10.2 12.7 19.1#

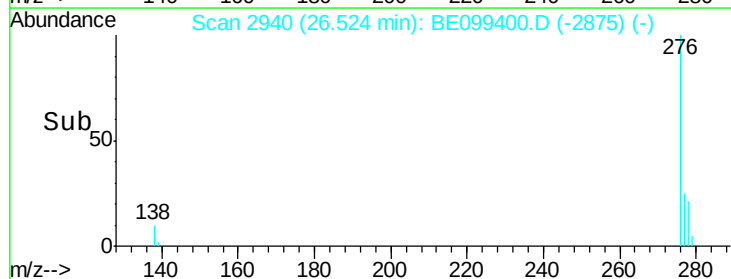
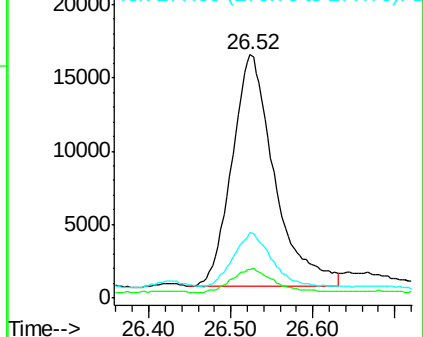
277 21.4 19.6 29.4

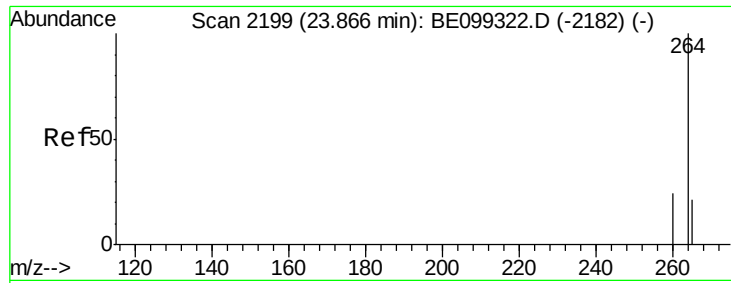


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

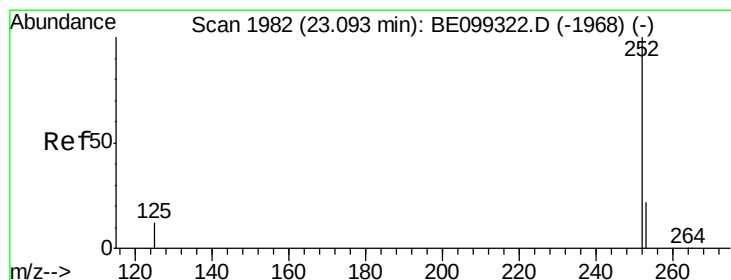
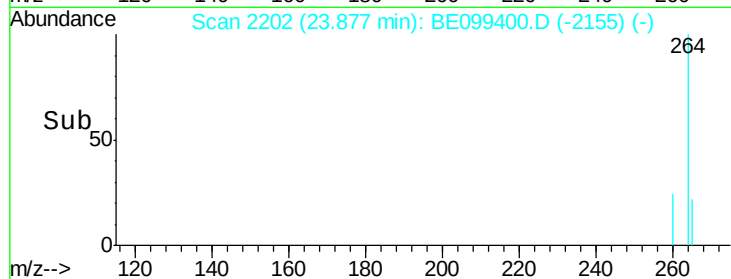
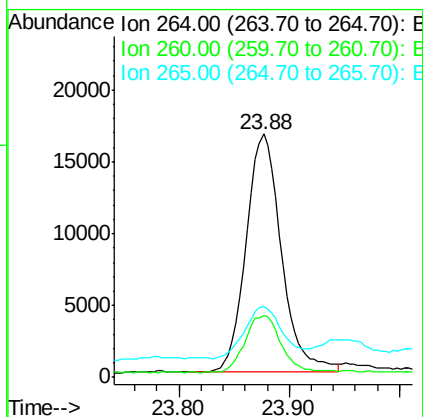
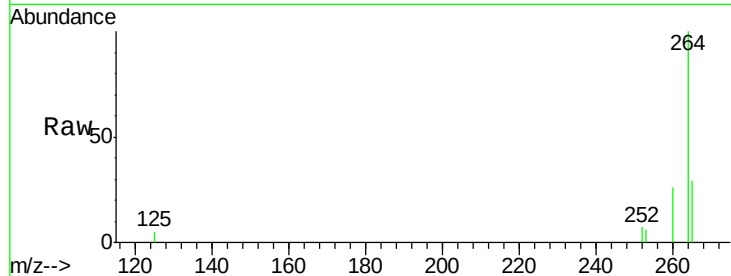




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.88 min Scan# 2202
 Delta R.T. 0.02 min
 Lab File: BE099400.D
 Acq: 27 Apr 2019 4:56

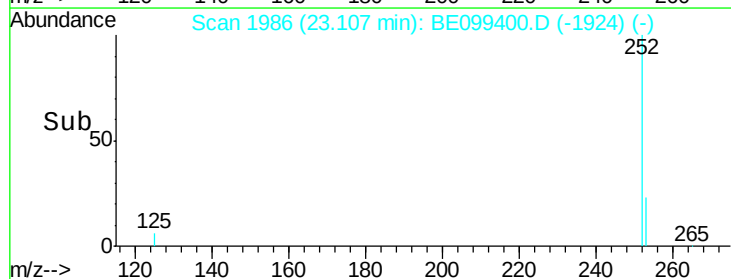
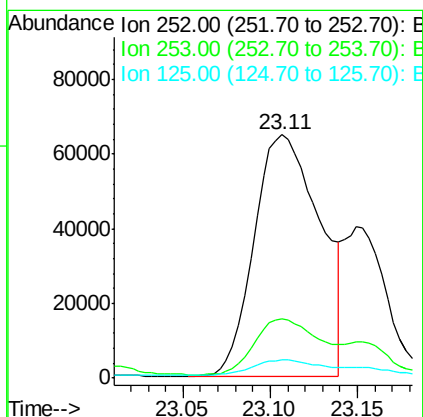
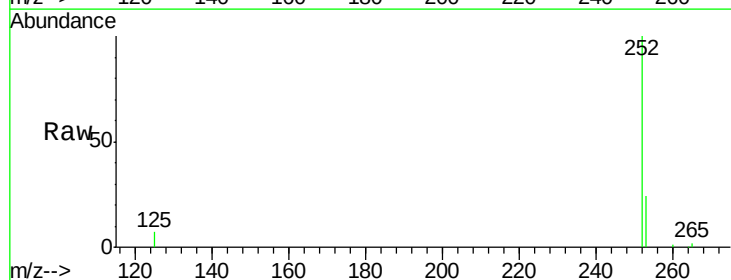
Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW001-042219

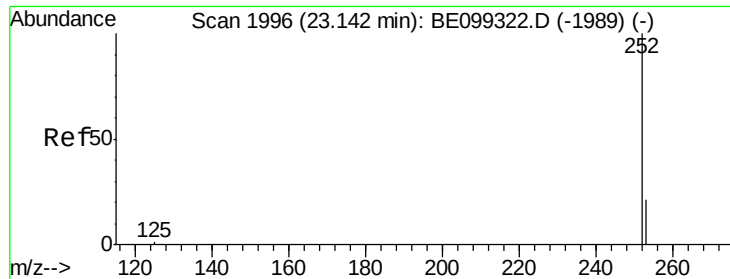
Tot Ion:264 Resp: 36783
 Ion Ratio Lower Upper
 264 100
 260 25.6 20.1 30.1
 265 29.0 19.9 29.9



#35
 Benzo(b)fluoranthene
 Concen: 1.507 ng
 RT: 23.11 min Scan# 1986
 Delta R.T. 0.02 min
 Lab File: BE099400.D
 Acq: 27 Apr 2019 4:56

Tgt Ion:252 Resp: 169735
 Ion Ratio Lower Upper
 252 100
 253 24.3 17.3 25.9
 125 7.4 5.8 8.6

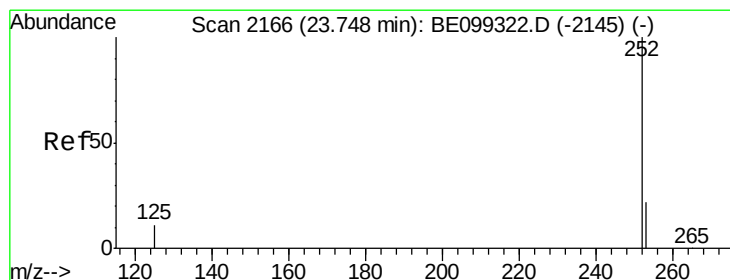
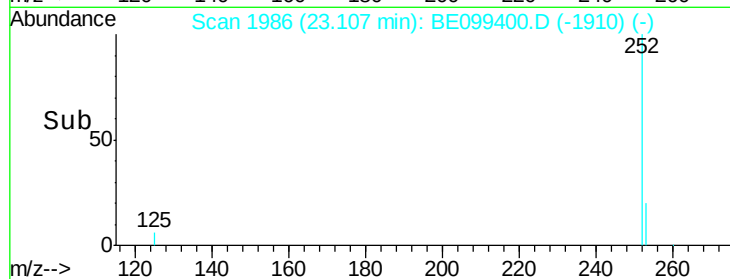
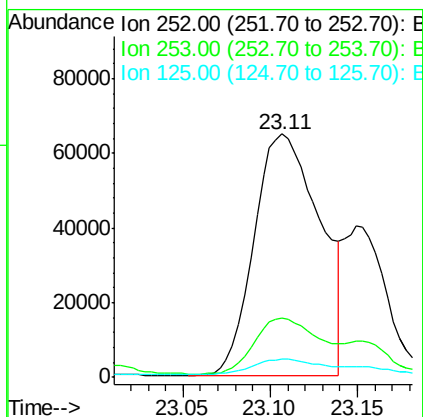
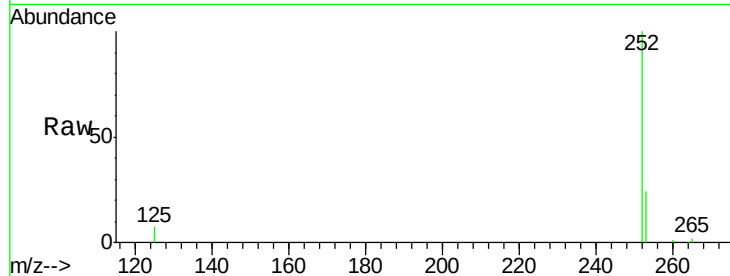




#36
Benzo(k)fluoranthene
Concen: 1.512 ng
RT: 23.11 min Scan# 1986
Delta R.T. -0.03 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

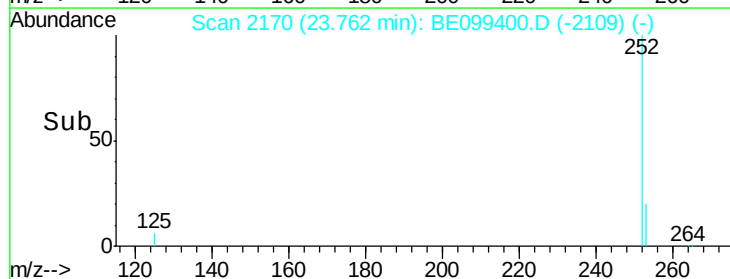
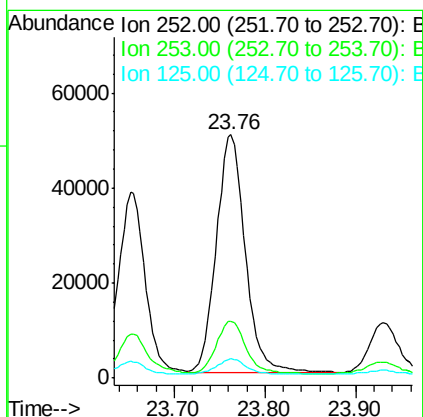
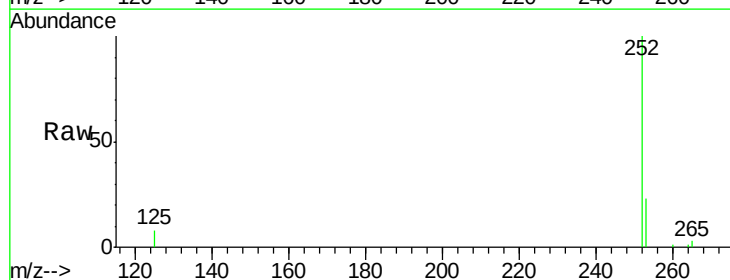
Instrument :
BNA_E
ClientSampleId :
EXT-028-SW001-042219

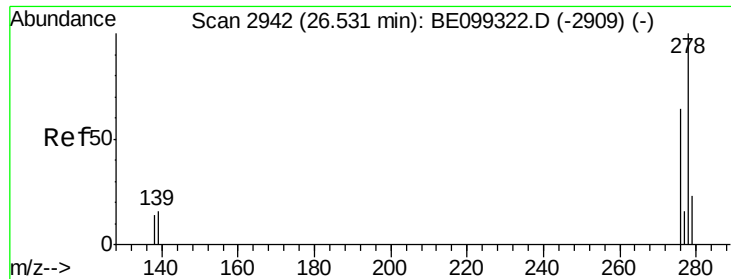
Tot Ion:252 Resp: 169735
Ion Ratio Lower Upper
252 100
253 24.3 18.4 27.6
125 7.4 5.4 8.0



#37
Benzo(a)pyrene
Concen: 1.094 ng
RT: 23.76 min Scan# 2170
Delta R.T. 0.02 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

Tgt Ion:252 Resp: 110327
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 8.0 6.5 9.7

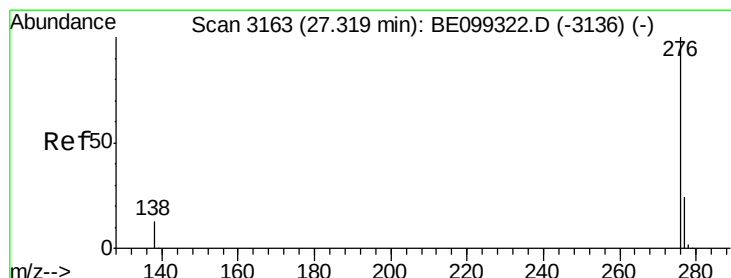
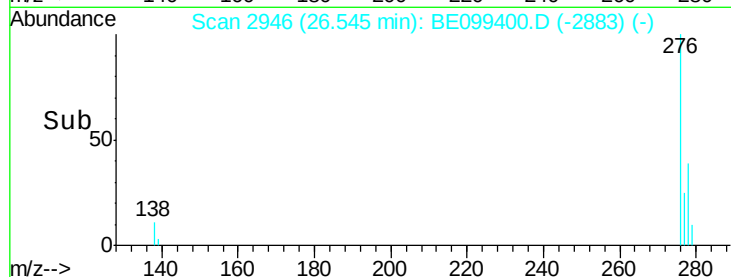
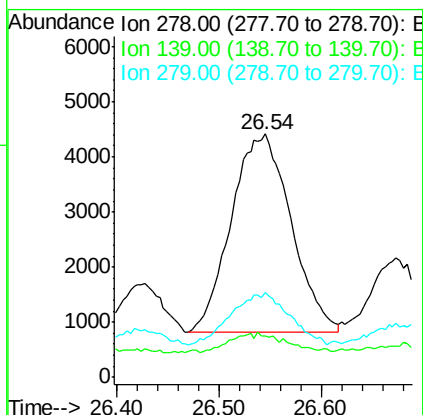
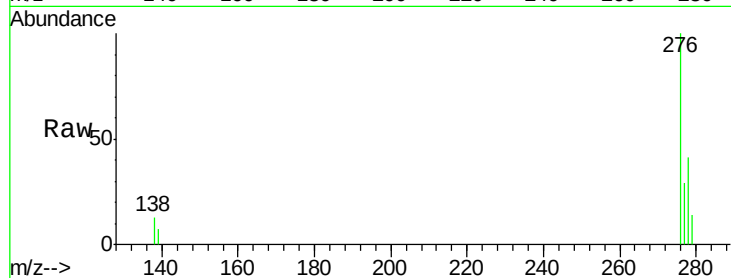




#38
Dibenzo(a,h)anthracene
Concen: 0.142 ng
RT: 26.54 min Scan# 2946
Delta R.T. 0.02 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

Instrument :
BNA_E
ClientSampleId :
EXT-028-SW001-042219

Tot Ion:278 Resp: 14623
Ion Ratio Lower Upper
278 100
139 17.2 8.5 12.7#
279 34.9 19.8 29.8#



#39
Benzo(g,h,i)perylene
Concen: 0.481 ng
RT: 27.34 min Scan# 3170
Delta R.T. 0.04 min
Lab File: BE099400.D
Acq: 27 Apr 2019 4:56

Tgt Ion:276 Resp: 50245
Ion Ratio Lower Upper
276 100
277 26.9 20.0 30.0
138 12.6 11.1 16.7

