

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099401.D
 Acq On : 27 Apr 2019 5:31
 Operator : JU/SJ
 Sample : K2533-20
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW018-042219

Quant Time: Apr 29 00:57:21 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	3131	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	12774	0.40	ng	0.01
13) Acenaphthene-d10	14.47	164	9286	0.40	ng	0.01
19) Phenanthrene-d10	17.20	188	26394	0.40	ng	0.01
27) Chrysene-d12	21.37	240	30167	0.40	ng	0.00
34) Perylene-d12	23.88	264	33986	0.40	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.40	112	3517	0.46	ng	0.01
5) Phenol-d6	6.98	99	4912	0.45	ng	0.00
8) Nitrobenzene-d5	8.98	82	4468	0.45	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	8930	0.40	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2402	0.78	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	13201	0.36	ng	0.00
25) Fluoranthene-d10	19.22	212	126041	0.40	ng	0.00
29) Terphenyl-d14	19.82	244	24668	0.42	ng	0.00

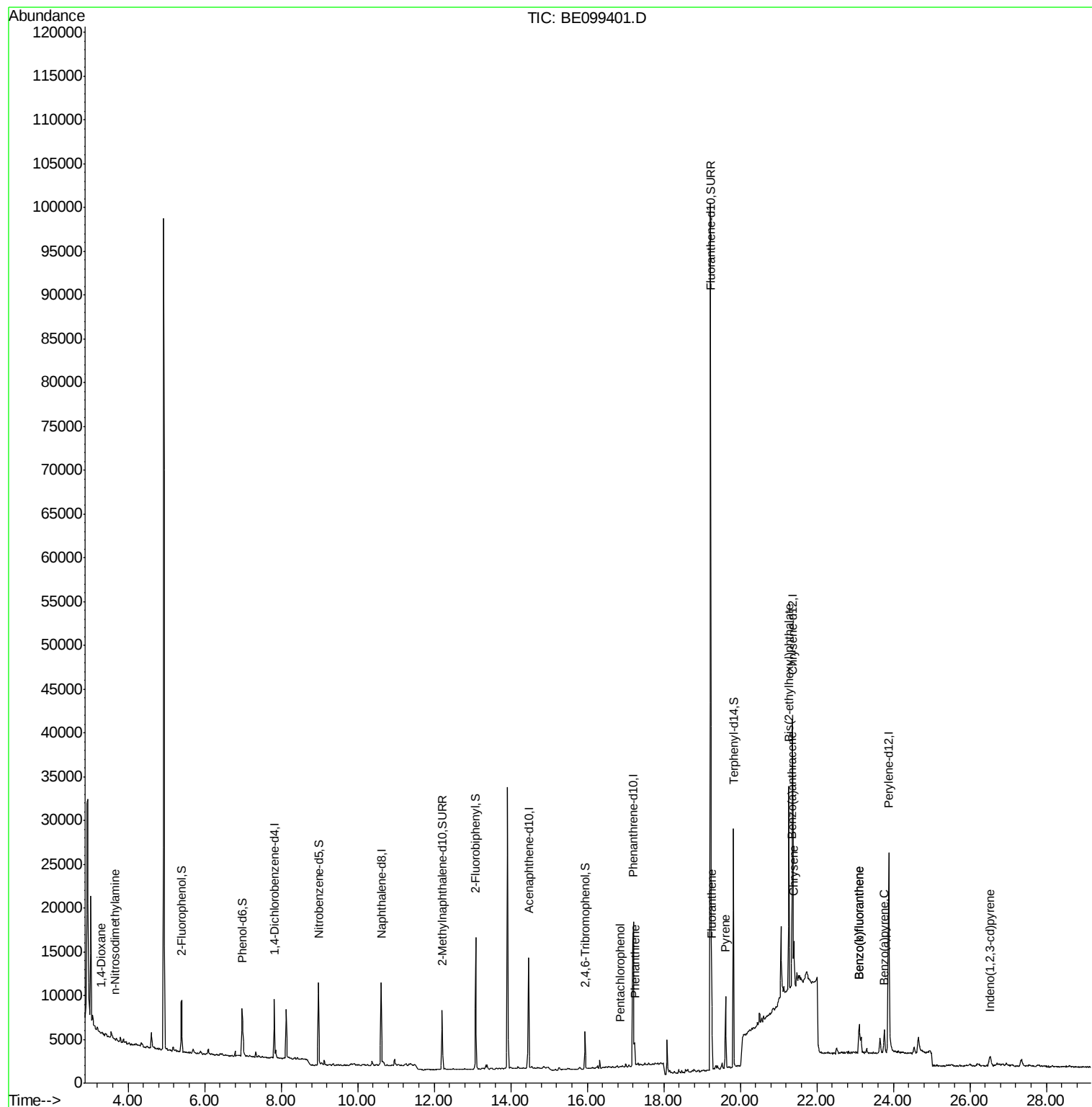
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.30	88	205	0.047	ng	# 1
3) n-Nitrosodimethylamine	3.67	42	123	0.052	ng	# 5
22) Pentachlorophenol	16.87	266	21	0.224	ng	# 72
23) Phenanthrene	17.24	178	3355	0.048	ng	97
26) Fluoranthene	19.25	202	7584	0.081	ng	96
28) Pyrene	19.62	202	7600	0.086	ng	# 94
30) Benzo(a)anthracene	21.36	228	4500	0.051	ng	# 77
31) Chrysene	21.40	228	4493	0.048	ng	# 74
32) Bis(2-ethylhexyl)phthalate	21.27	149	23942	0.297	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.52	276	2495	0.027	ng	# 80
35) Benzo(b)fluoranthene	23.11	252	5735	0.055	ng	# 35
36) Benzo(k)fluoranthene	23.11	252	5735	0.055	ng	# 39
37) Benzo(a)pyrene	23.76	252	3837	0.041	ng	# 20

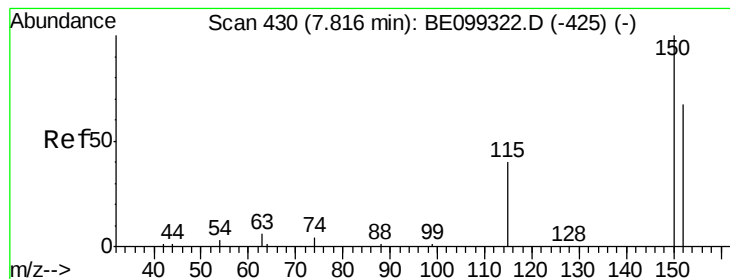
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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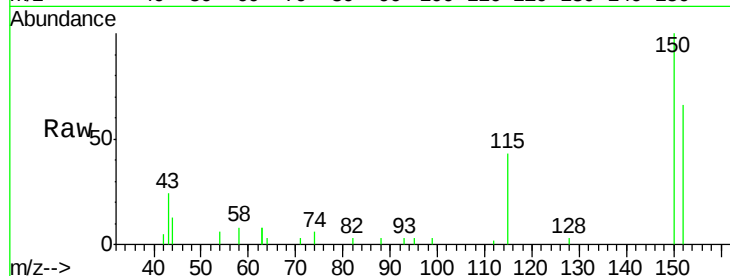


#1

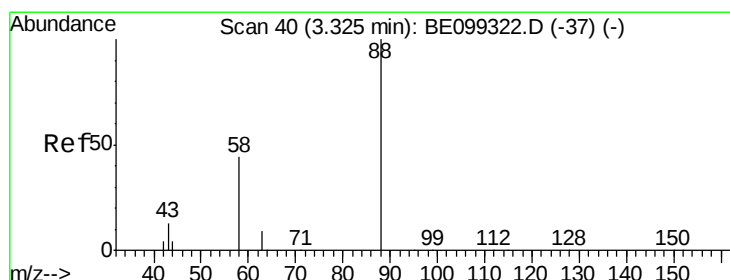
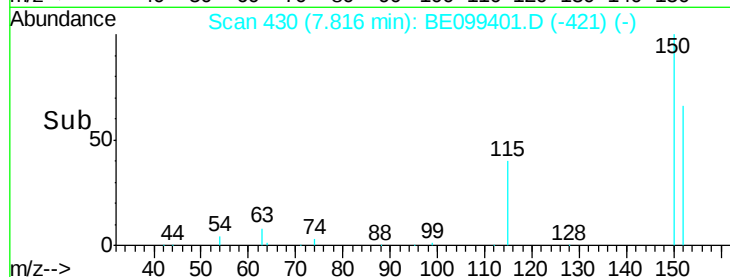
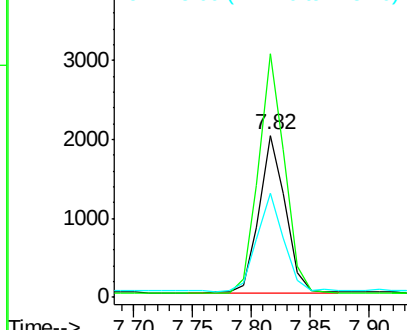
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW018-042219

Tot Ion:152 Resp: 3131
Ion Ratio Lower Upper
152 100
150 150.4 119.5 179.3
115 64.1 47.5 71.3



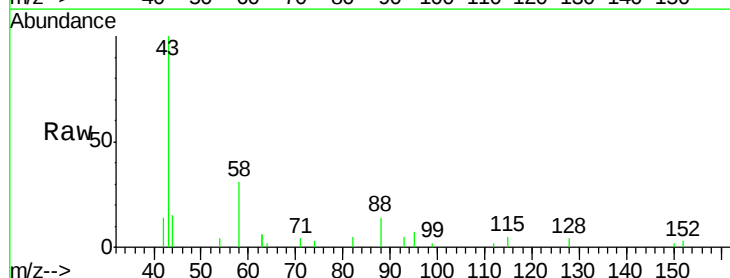
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



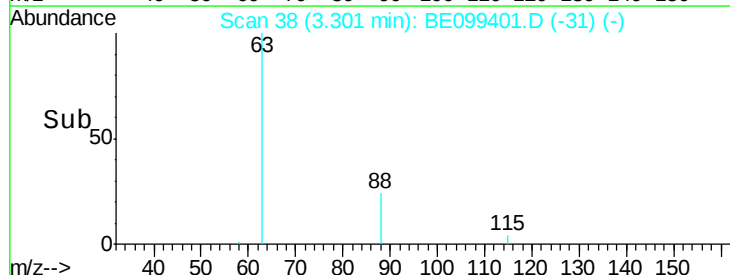
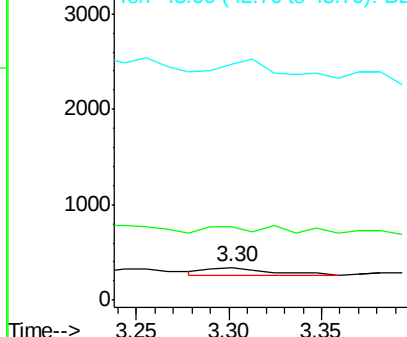
#2

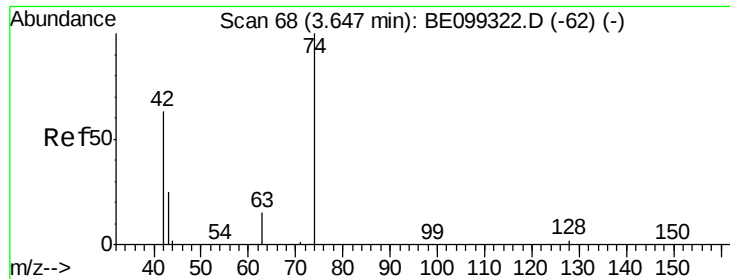
1,4-Dioxane
Concen: 0.047 ng
RT: 3.30 min Scan# 38
Delta R.T. -0.02 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

Tgt Ion: 88 Resp: 205
Ion Ratio Lower Upper
88 100
58 46.3 49.1 73.7#
43 201.5 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





#3

n-Nitrosodimethylamine

Concen: 0.052 ng

RT: 3.67 min Scan# 70

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

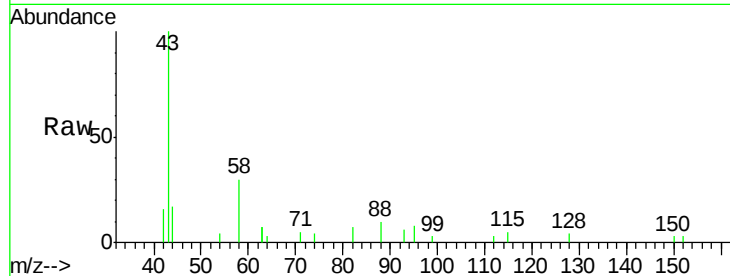
Tot Ion: 42 Resp: 123

Ion Ratio Lower Upper

42 100

74 40.7 145.8 218.8#

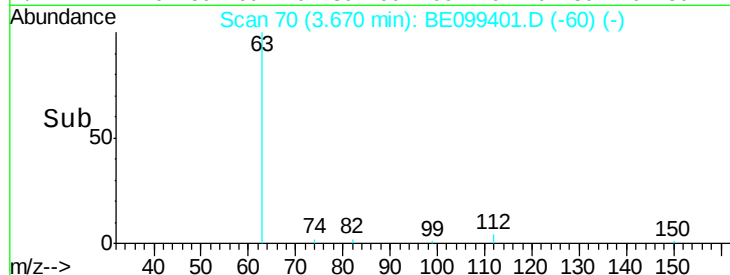
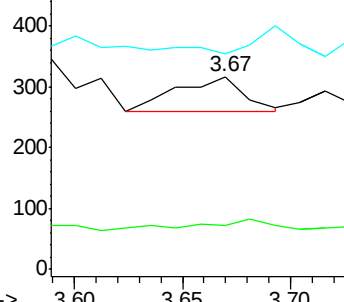
44 0.0 9.0 13.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.460 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

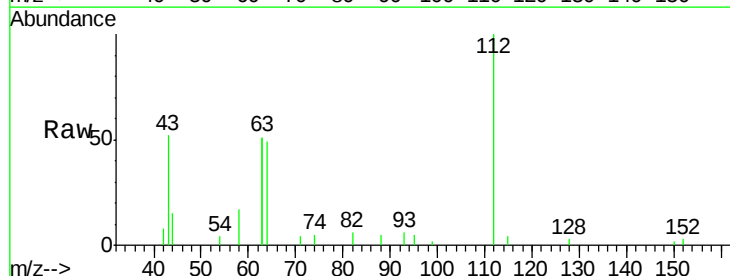
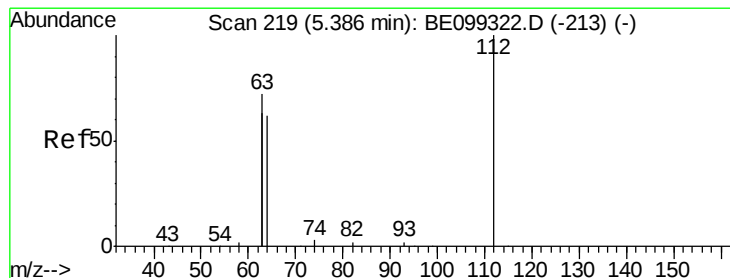
Tgt Ion: 112 Resp: 3517

Ion Ratio Lower Upper

112 100

64 58.7 44.9 67.3

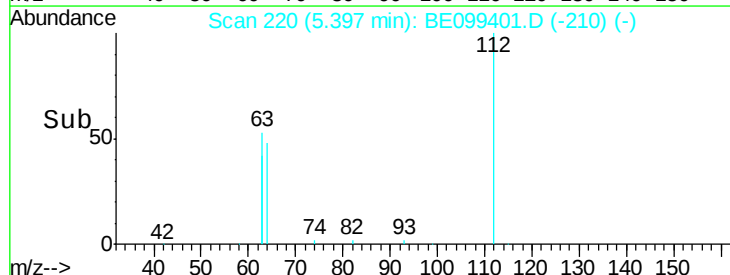
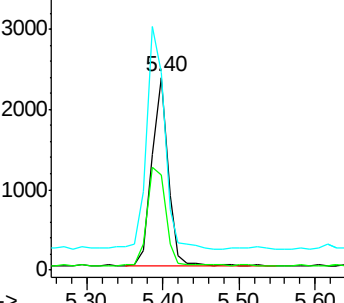
63 128.7 97.4 146.0

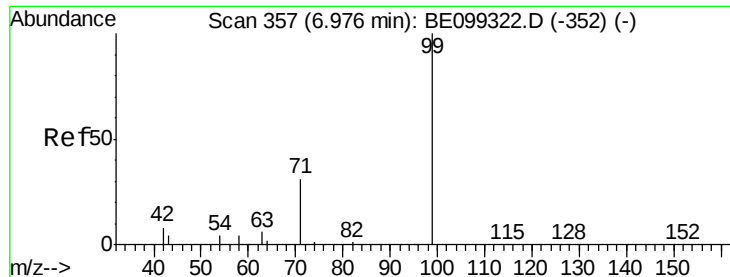


Abundance Ion 112.00 (111.70 to 112.70): E

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: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

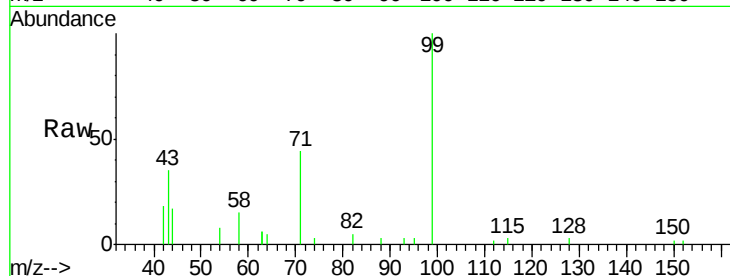
Tot Ion: 99 Resp: 4912

Ion Ratio Lower Upper

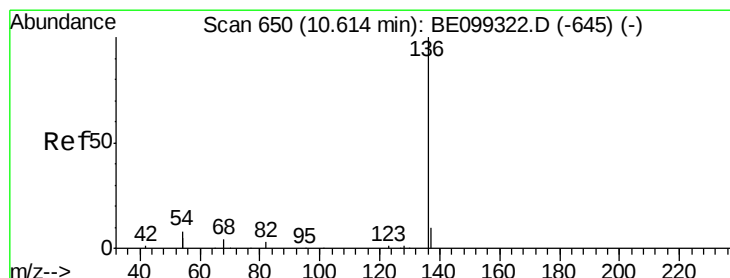
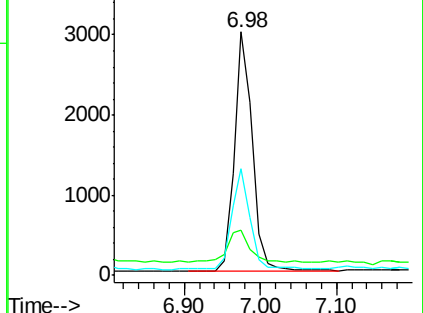
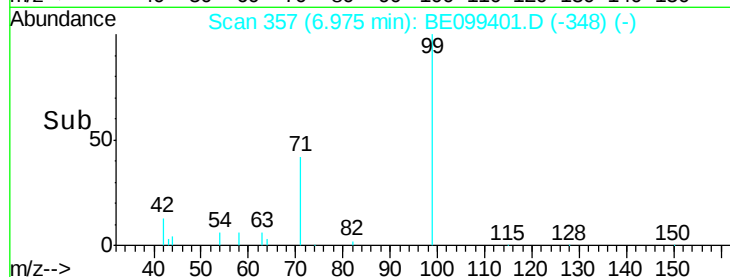
99 100

42 15.7 11.7 17.5

71 43.6 29.6 44.4



Abundance Ion 99.00 (98.70 to 99.70): BE099401.D (-348) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Tgt Ion: 136 Resp: 12774

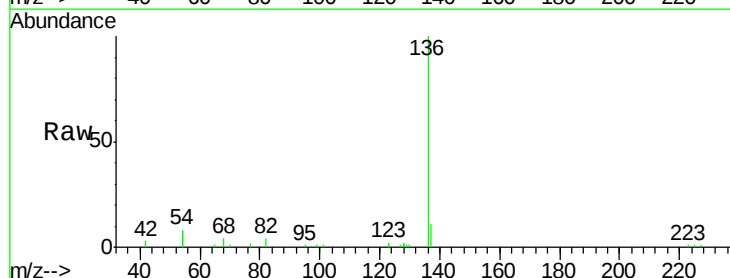
Ion Ratio Lower Upper

136 100

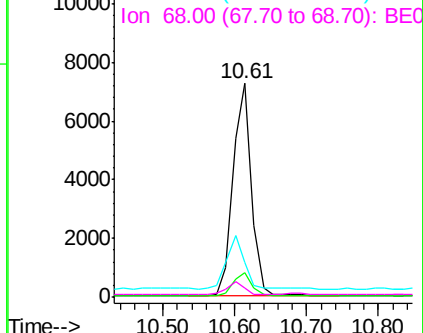
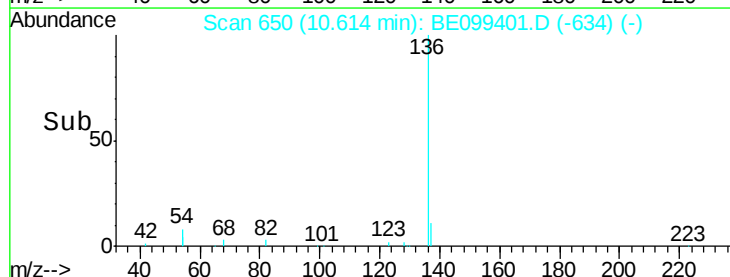
137 11.3 8.7 13.1

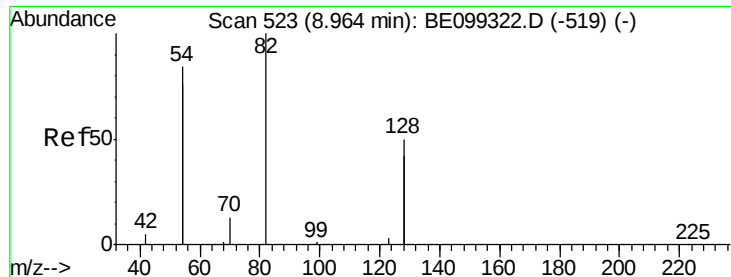
54 16.1 23.8 35.8#

68 4.4 6.4 9.6#



Abundance Ion 136.00 (135.70 to 136.70): BE099401.D (-634) (-)





#8

Nitrobenzene-d5

Concen: 0.451 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

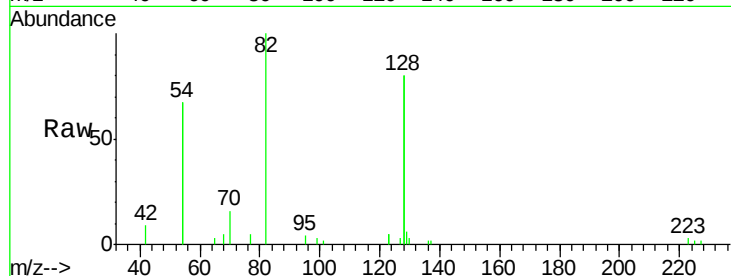
Tot Ion: 82 Resp: 4468

Ion Ratio Lower Upper

82 100

128 159.1 91.7 137.5#

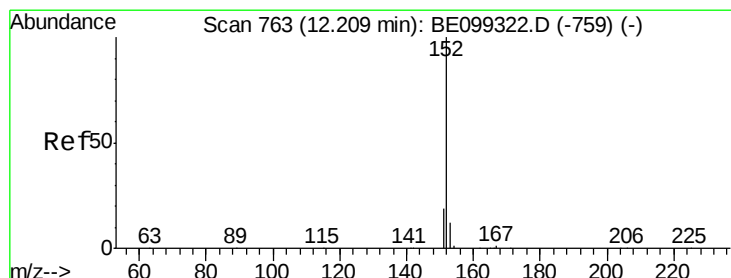
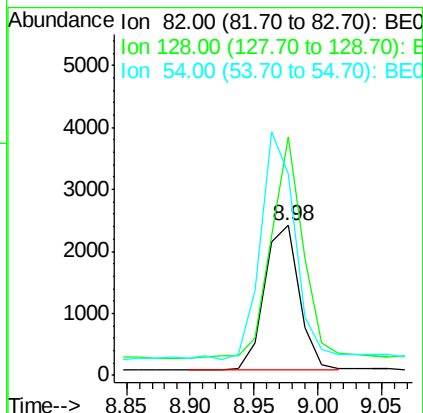
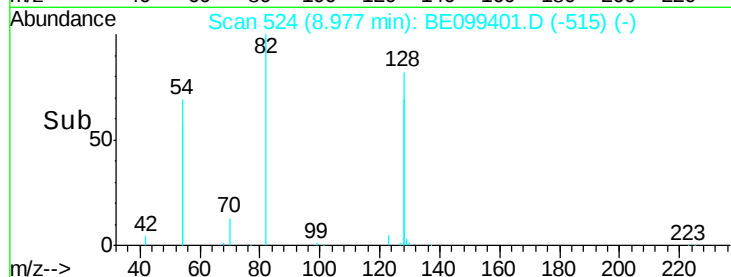
54 134.2 122.8 184.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.396 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099401.D

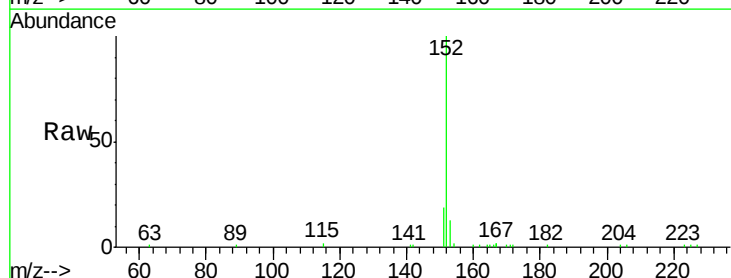
Acq: 27 Apr 2019 5:31

Tgt Ion: 152 Resp: 8930

Ion Ratio Lower Upper

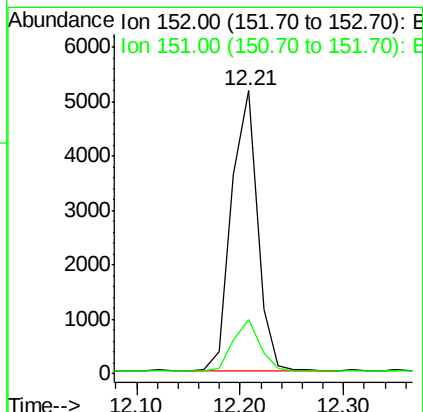
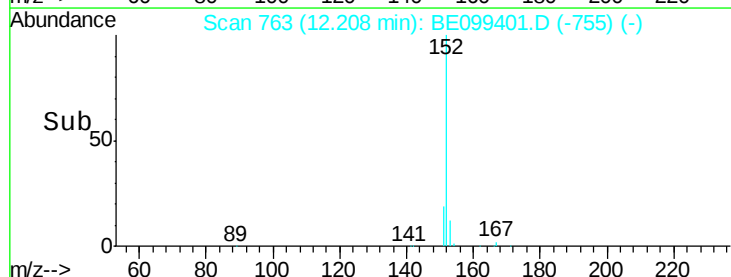
152 100

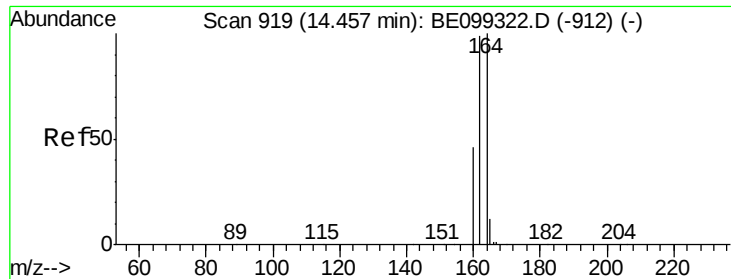
151 19.6 14.9 22.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.47 min Scan# 920

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

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ClientSampleId :

EXT-027-SW018-042219

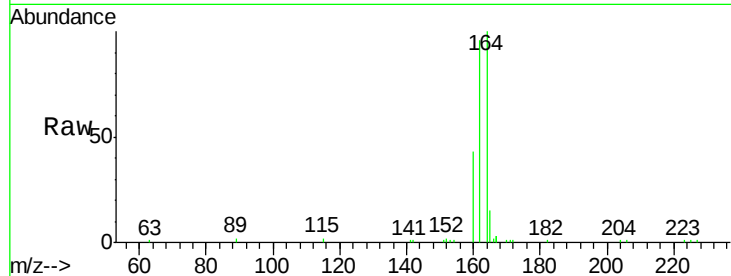
Tot Ion:164 Resp: 9286

Ion Ratio Lower Upper

164 100

162 96.4 77.8 116.6

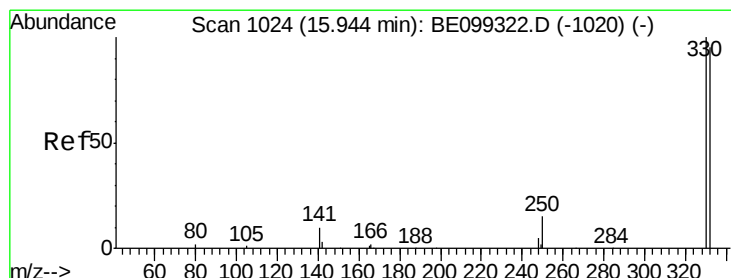
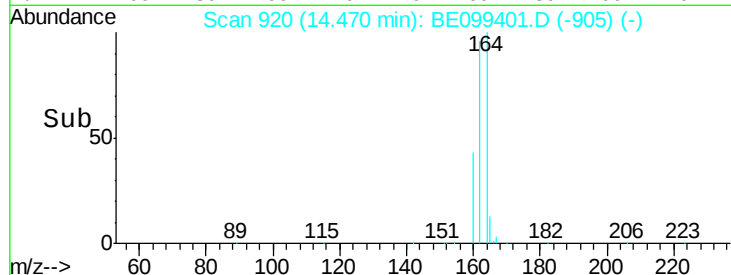
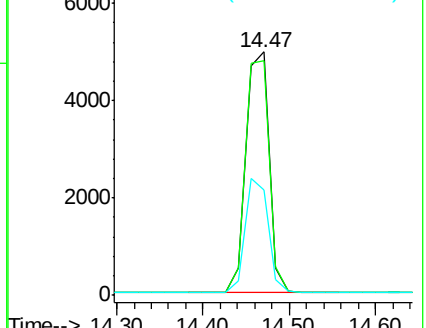
160 43.4 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.779 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

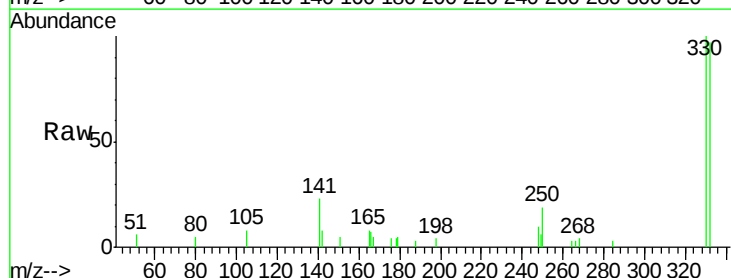
Tgt Ion:330 Resp: 2402

Ion Ratio Lower Upper

330 100

332 98.4 82.5 123.7

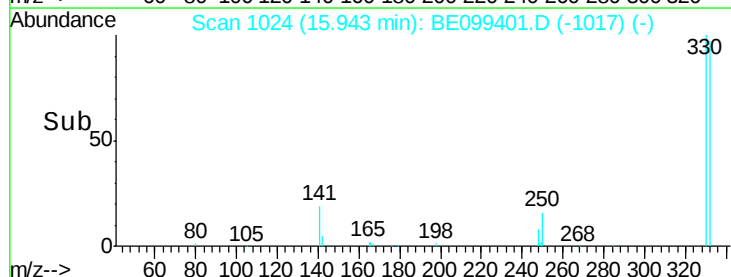
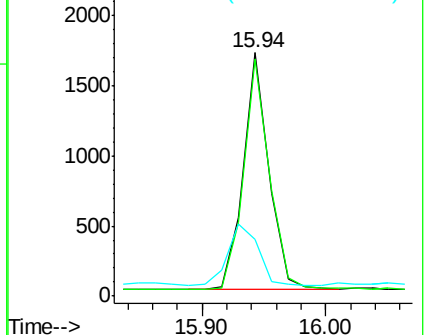
141 31.0 24.9 37.3

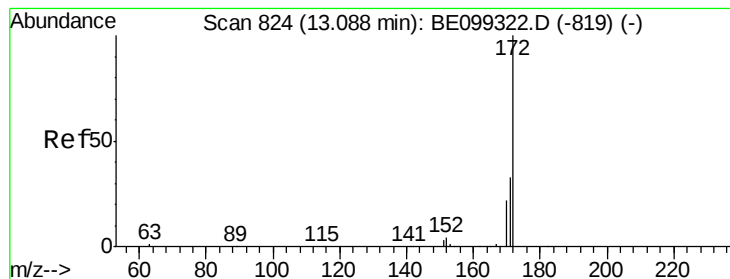


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

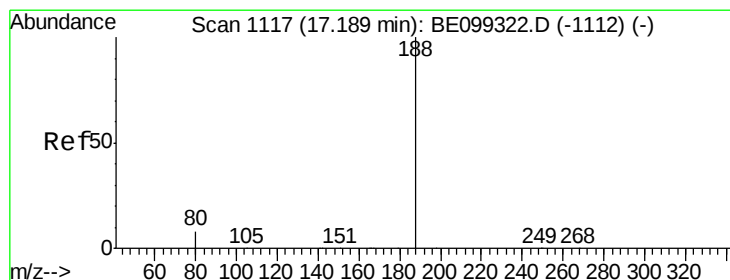
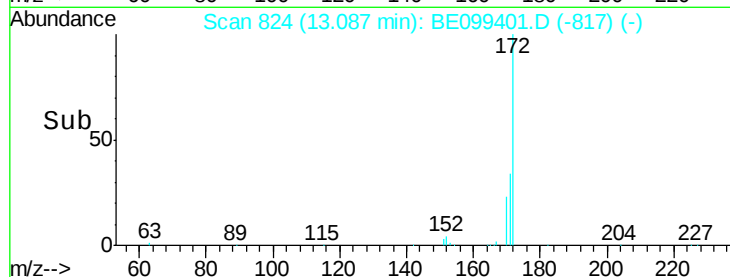
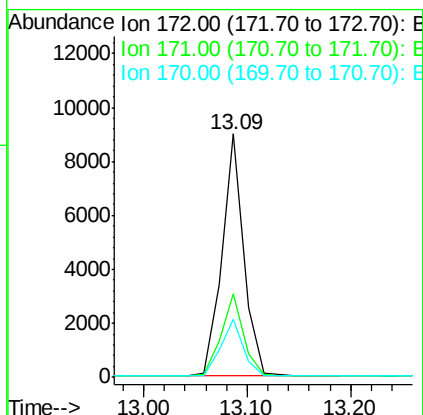
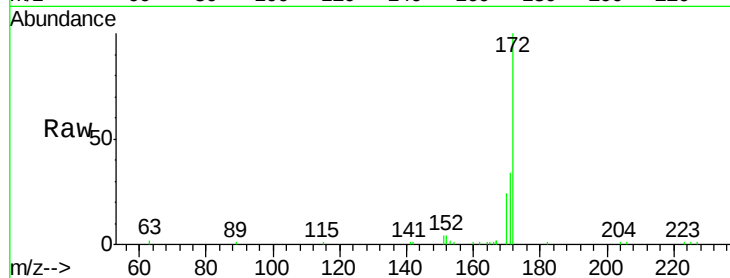




#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

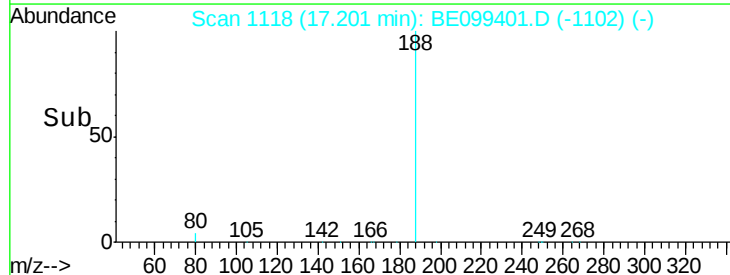
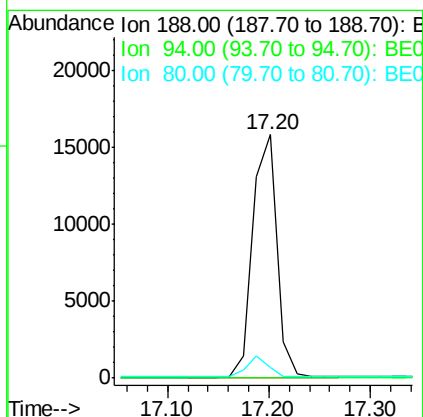
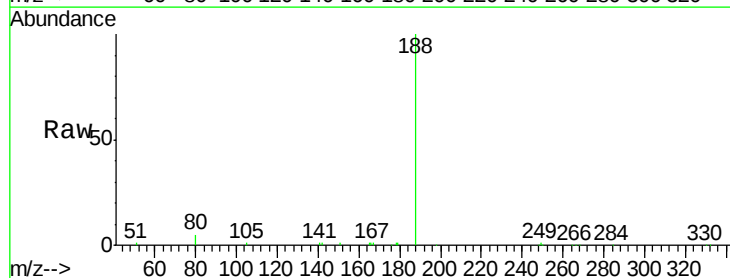
Instrument :
BNA_E
ClientSampleId :
EXT-027-SW018-042219

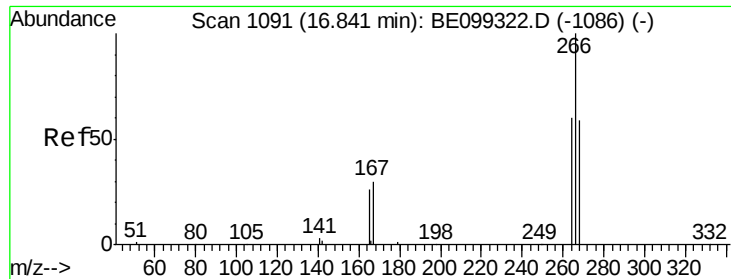
Tot Ion:172 Resp: 13201
Ion Ratio Lower Upper
172 100
171 34.2 26.2 39.2
170 23.7 18.1 27.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.01 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

Tgt Ion:188 Resp: 26394
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 4.6 6.2 9.4#





#22

Pentachlorophenol

Concen: 0.224 ng

RT: 16.87 min Scan# 1093

Delta R.T. 0.03 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

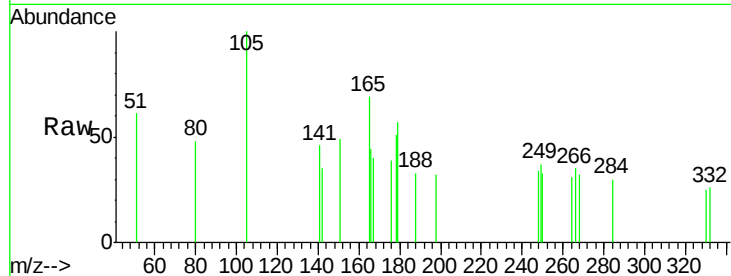
Tot Ion:266 Resp: 21

Ion Ratio Lower Upper

266 100

264 89.6 54.5 81.7#

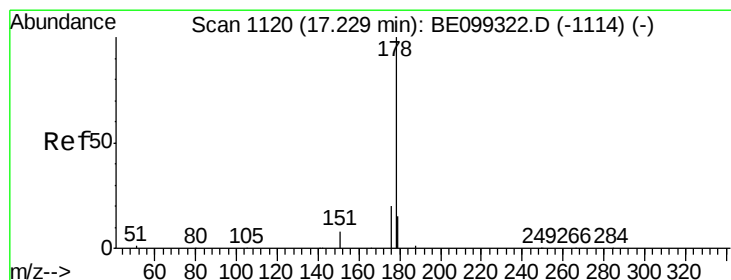
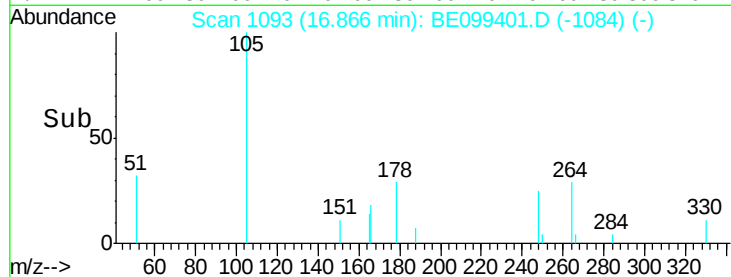
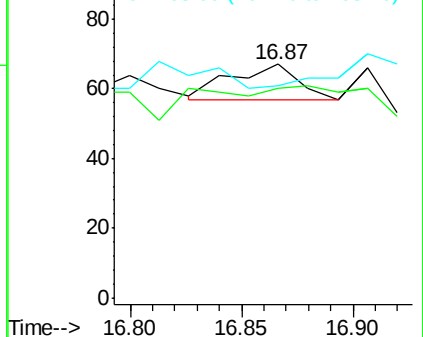
268 91.0 54.3 81.5#



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: 0.048 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

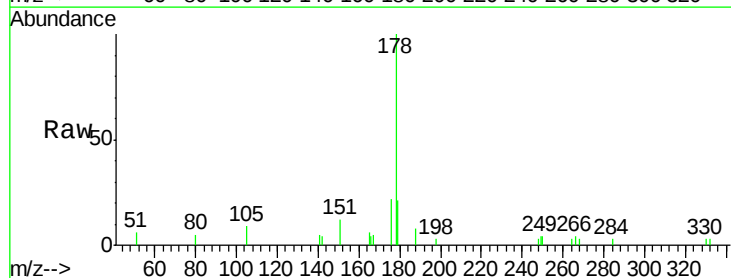
Tgt Ion:178 Resp: 3355

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

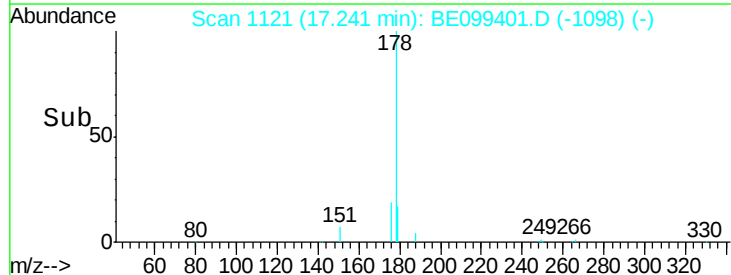
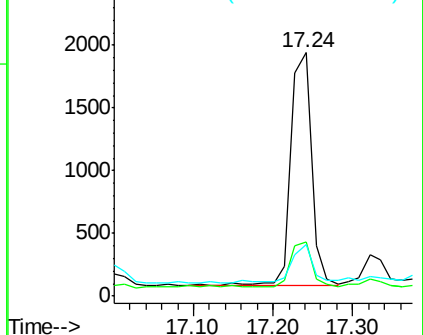
179 17.7 12.4 18.6

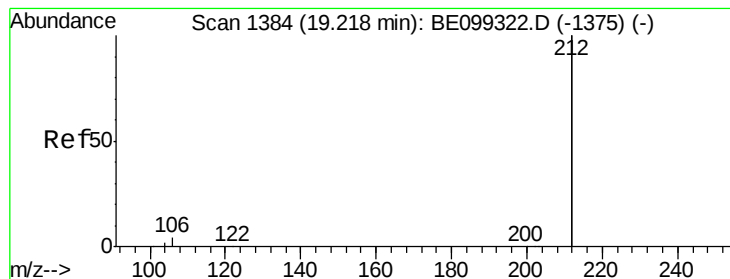


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.397 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

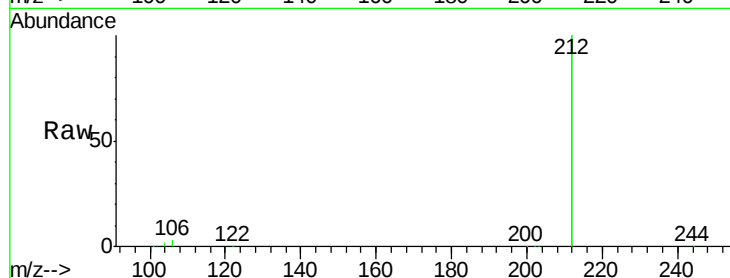
Tot Ion:212 Resp: 126041

Ion Ratio Lower Upper

212 100

106 1.9 1.8 2.6

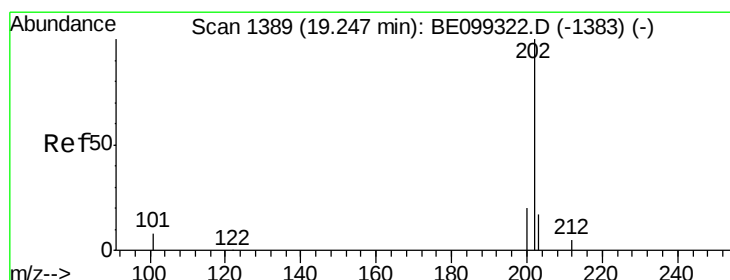
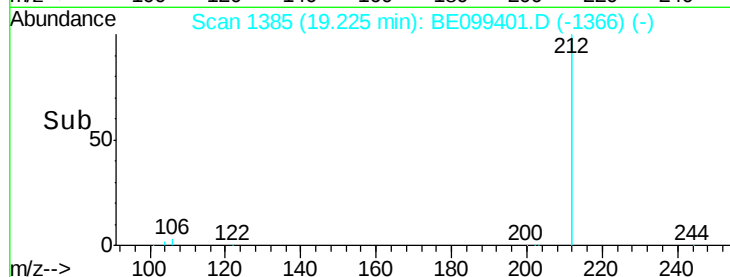
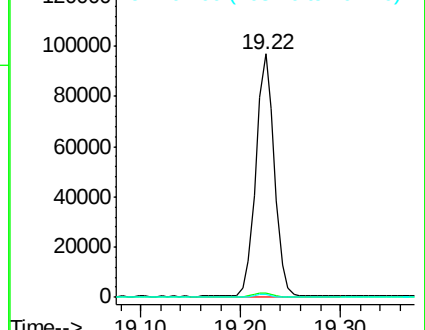
104 1.1 1.0 1.4



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: 0.081 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

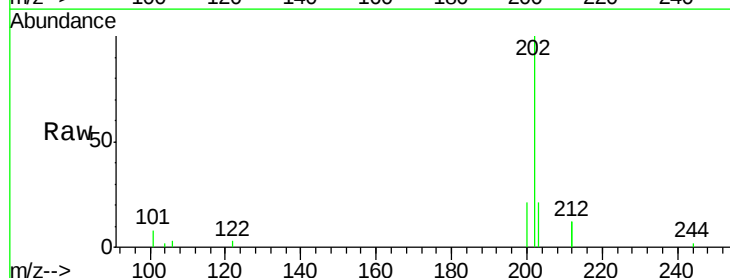
Tgt Ion:202 Resp: 7584

Ion Ratio Lower Upper

202 100

101 8.7 6.4 9.6

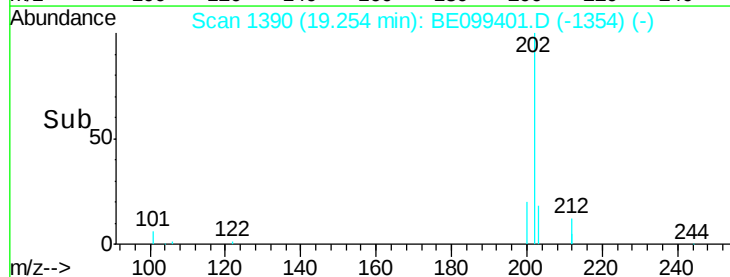
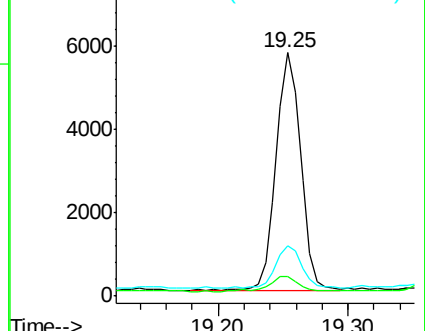
203 18.9 13.5 20.3

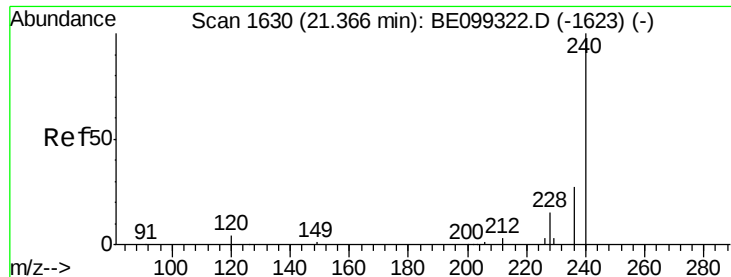


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

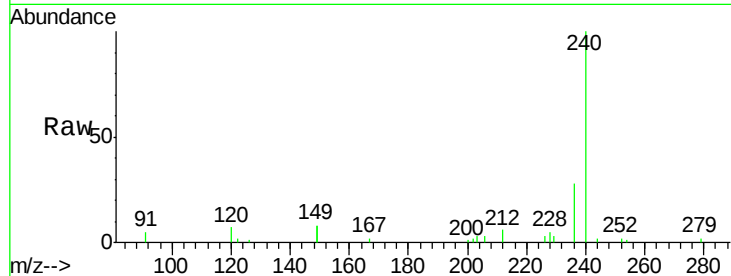




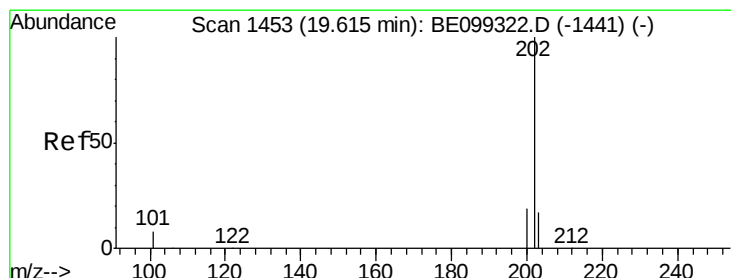
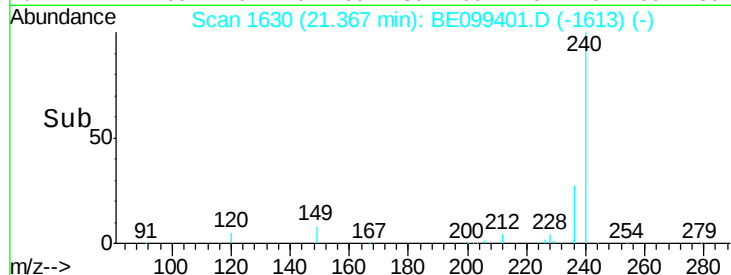
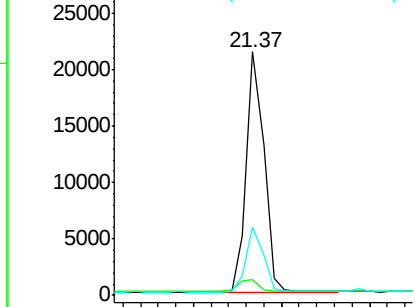
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

Instrument :
BNA_E
ClientSampleId :
EXT-027-SW018-042219

Tot Ion:240 Resp: 30167
Ion Ratio Lower Upper
240 100
120 6.5 2.2 3.2#
236 28.2 20.2 30.4

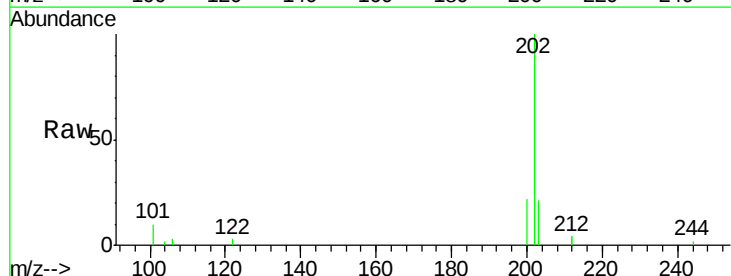


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

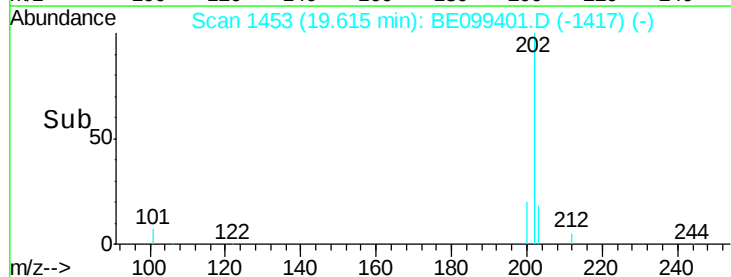
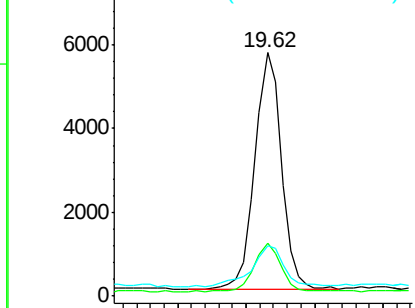


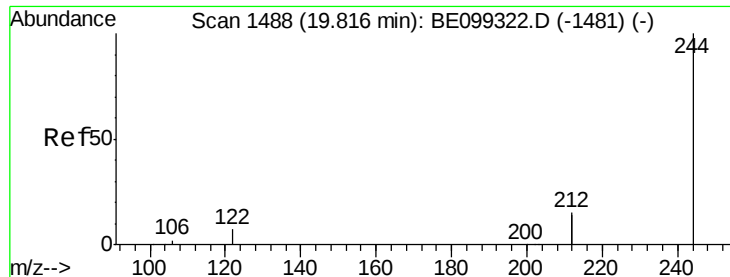
#28
Pyrene
Concen: 0.086 ng
RT: 19.62 min Scan# 1453
Delta R.T. 0.01 min
Lab File: BE099401.D
Acq: 27 Apr 2019 5:31

Tgt Ion:202 Resp: 7600
Ion Ratio Lower Upper
202 100
200 20.2 15.7 23.5
203 22.1 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: 0.415 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

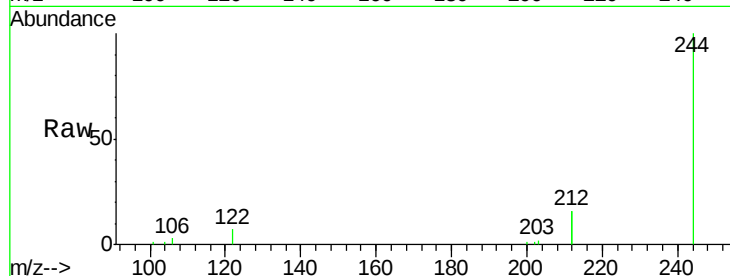
Tot Ion:244 Resp: 24668

Ion Ratio Lower Upper

244 100

212 31.8 22.6 33.8

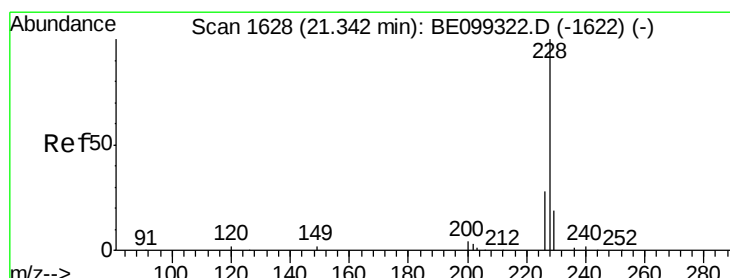
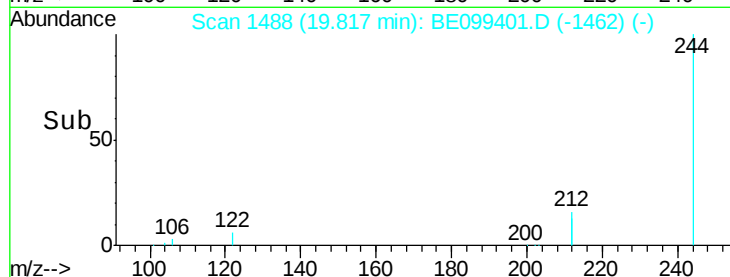
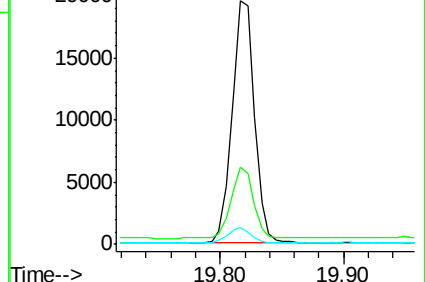
122 7.0 4.6 7.0#



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: 0.051 ng

RT: 21.36 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

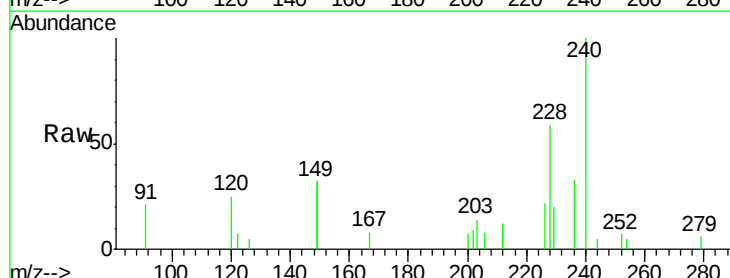
Tgt Ion:228 Resp: 4500

Ion Ratio Lower Upper

228 100

226 36.9 22.0 33.0#

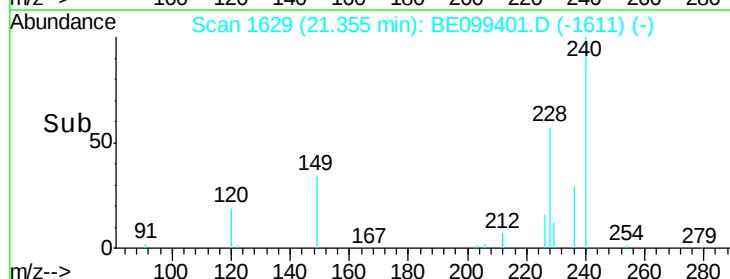
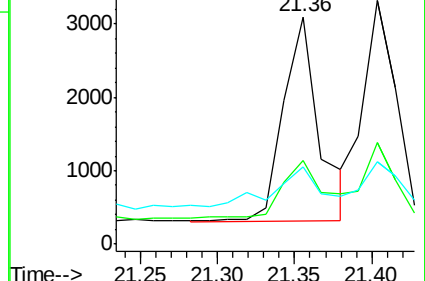
229 33.9 15.8 23.8#

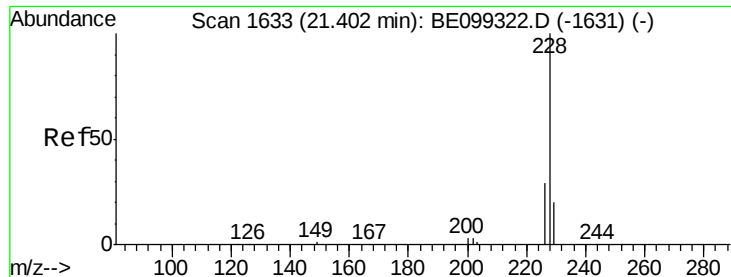


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.048 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

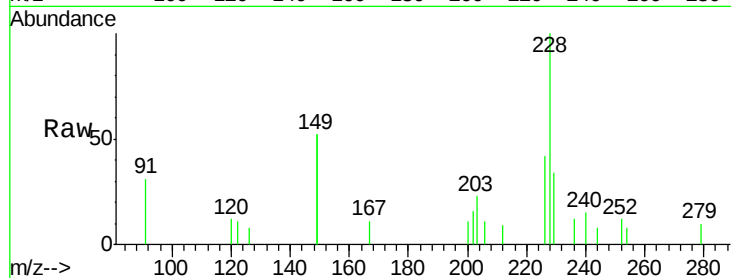
Tot Ion:228 Resp: 4493

Ion Ratio Lower Upper

228 100

226 41.9 23.4 35.2#

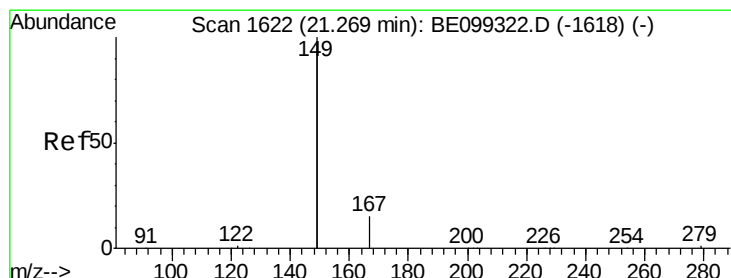
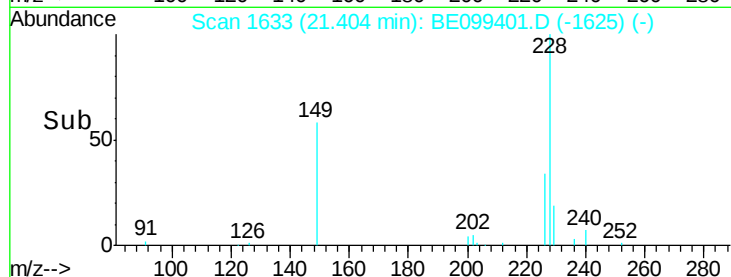
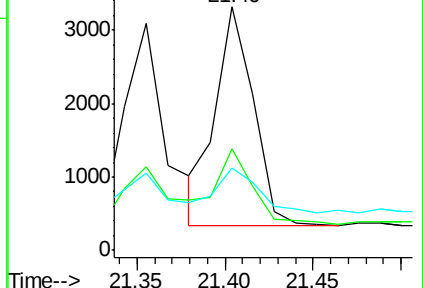
229 33.7 16.2 24.2#



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: 0.297 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

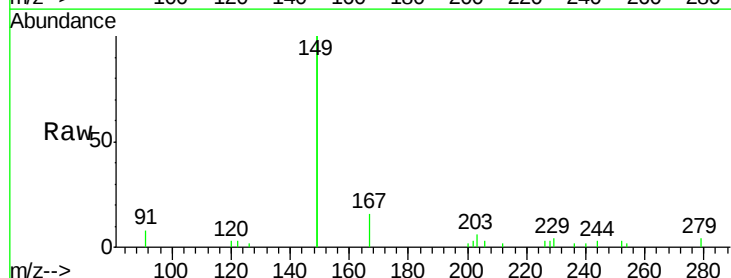
Tgt Ion:149 Resp: 23942

Ion Ratio Lower Upper

149 100

167 8.2 6.0 9.0

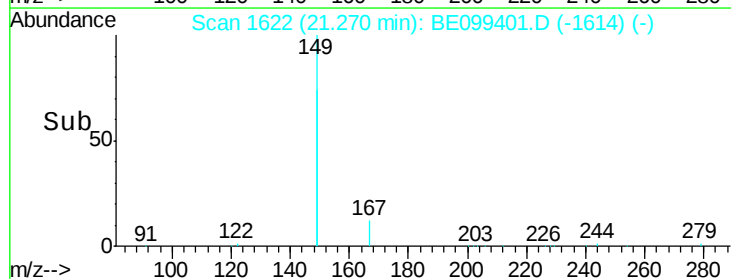
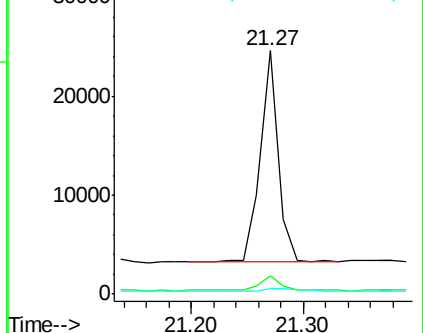
279 1.7 1.1 1.7#

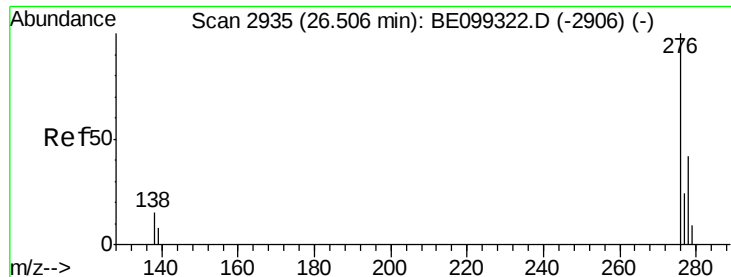


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.027 ng

RT: 26.52 min Scan# 2939

Delta R.T. 0.03 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

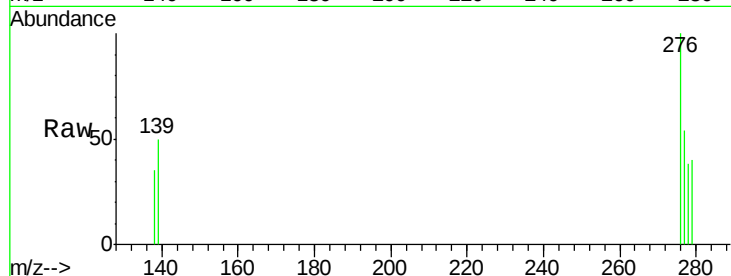
Tot Ion:276 Resp: 2495

Ion Ratio Lower Upper

276 100

138 8.1 12.7 19.1#

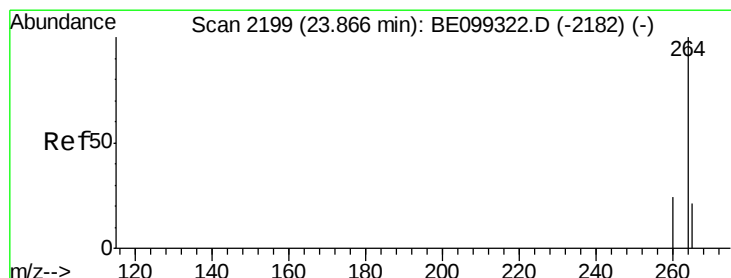
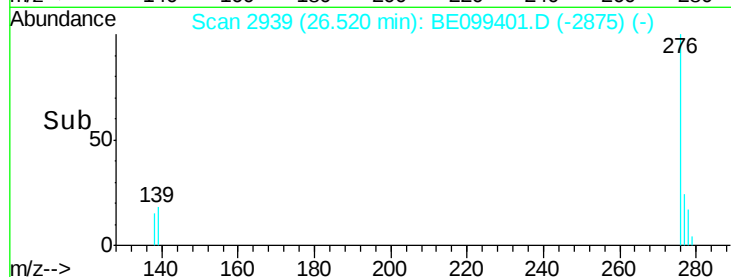
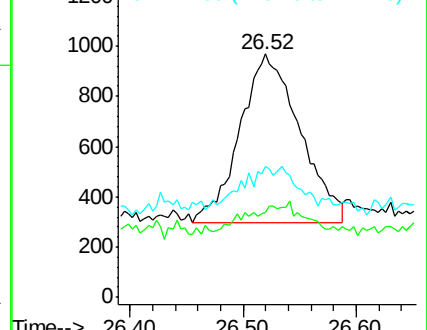
277 13.8 19.6 29.4#



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# 2202

Delta R.T. 0.02 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

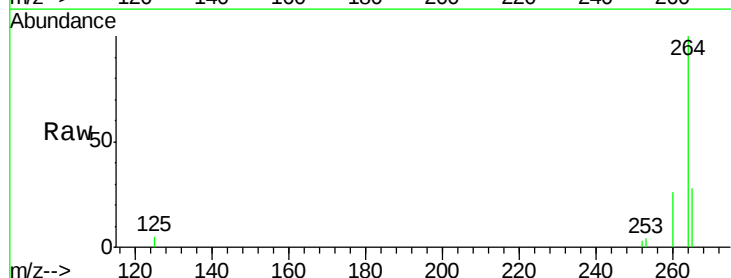
Tgt Ion:264 Resp: 33986

Ion Ratio Lower Upper

264 100

260 26.0 20.1 30.1

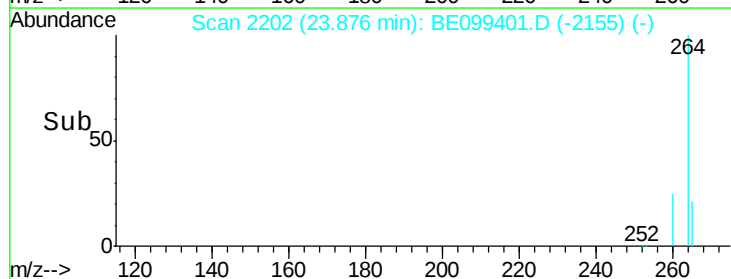
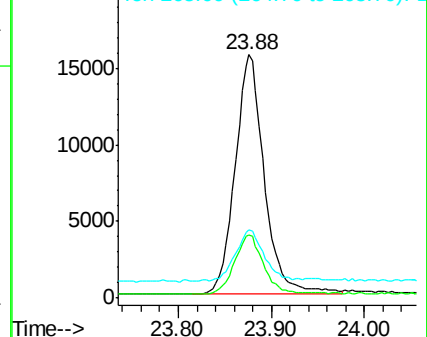
265 27.9 19.9 29.9

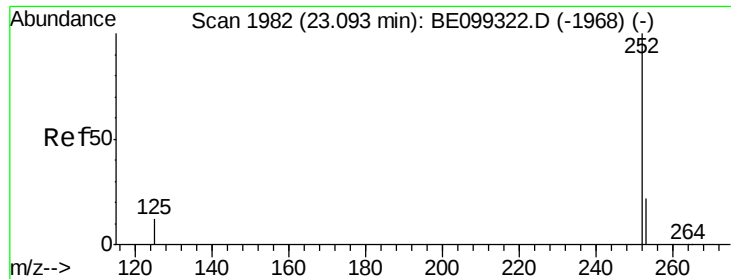


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.055 ng

RT: 23.11 min Scan# 1986

Delta R.T. 0.02 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

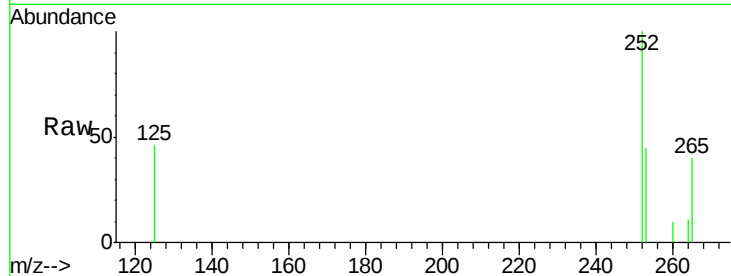
Tot Ion:252 Resp: 5735

Ion Ratio Lower Upper

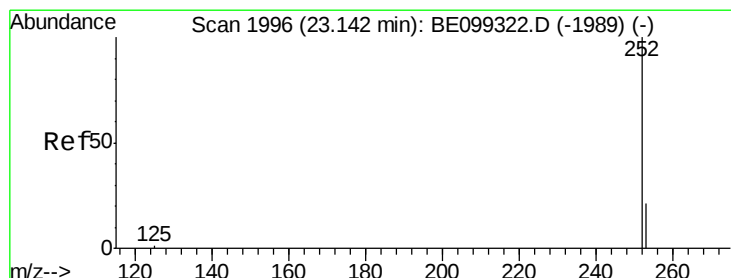
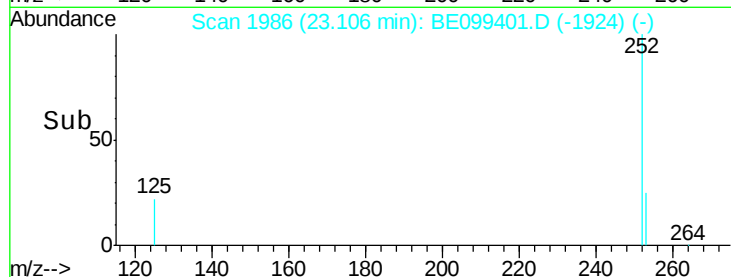
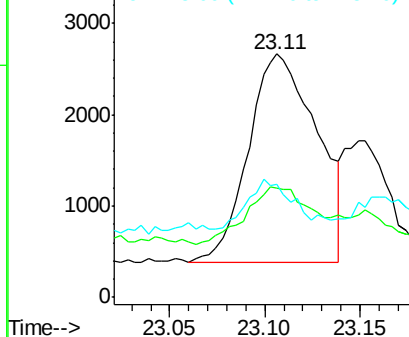
252 100

253 44.9 17.3 25.9#

125 46.4 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: 0.055 ng

RT: 23.11 min Scan# 1986

Delta R.T. -0.03 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

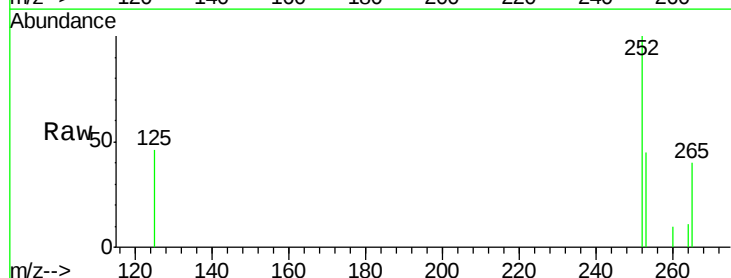
Tgt Ion:252 Resp: 5735

Ion Ratio Lower Upper

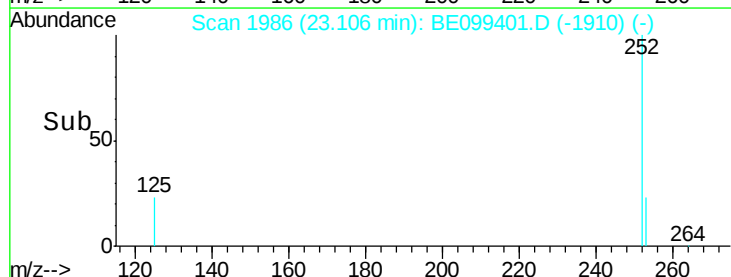
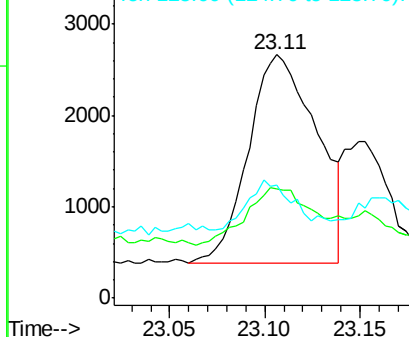
252 100

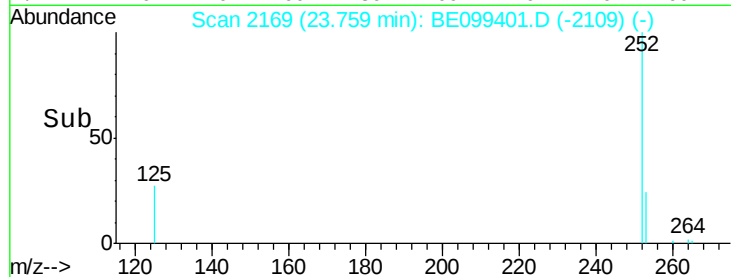
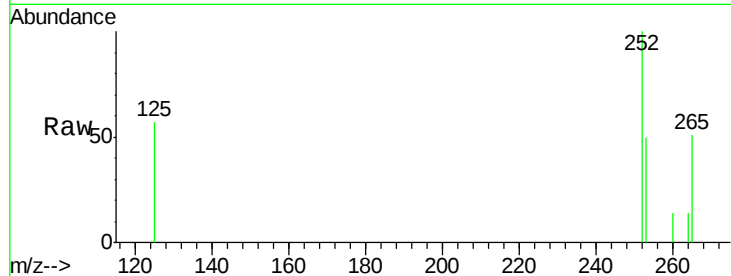
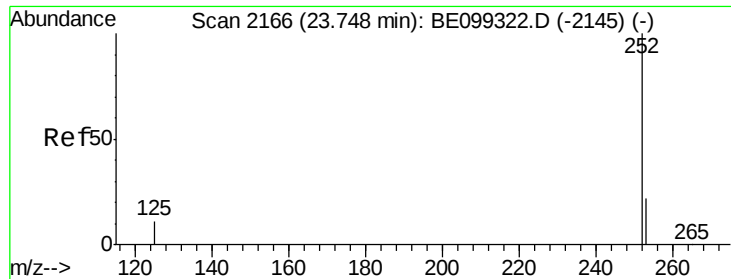
253 44.9 18.4 27.6#

125 46.4 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: 0.041 ng

RT: 23.76 min Scan# 2169

Delta R.T. 0.01 min

Lab File: BE099401.D

Acq: 27 Apr 2019 5:31

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW018-042219

Tot Ion: 252 Resp: 3837

Ion Ratio Lower Upper

252 100

253 50.0 17.6 26.4#

125 56.6 6.5 9.7#

