

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE032919\
 Data File : BE099259.D
 Acq On : 29 Mar 2019 17:45
 Operator : JU/SJ
 Sample : K1982-04
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW005-032519

Quant Time: Mar 29 22:57:02 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Mar 26 07:02:06 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	3486	0.40	ng	-0.01
7) Naphthalene-d8	10.63	136	13563	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	10052	0.40	ng	-0.01
19) Phenanthrene-d10	17.20	188	31601	0.40	ng	-0.01
27) Chrysene-d12	21.38	240	40718	0.40	ng	-0.01
34) Perylene-d12	23.88	264	40488	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.41	112	3879	0.37	ng	0.00
5) Phenol-d6	6.99	99	5575	0.35	ng	0.00
8) Nitrobenzene-d5	8.98	82	4510	0.41	ng	-0.01
11) 2-Methylnaphthalene-d10	12.21	152	9706	0.37	ng	-0.01
14) 2,4,6-Tribromophenol	15.96	330	1849	0.55	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	14000	0.34	ng	0.00
25) Fluoranthene-d10	19.23	212	144450	0.38	ng	-0.01
29) Terphenyl-d14	19.83	244	23544	0.27	ng	0.00

Target Compounds

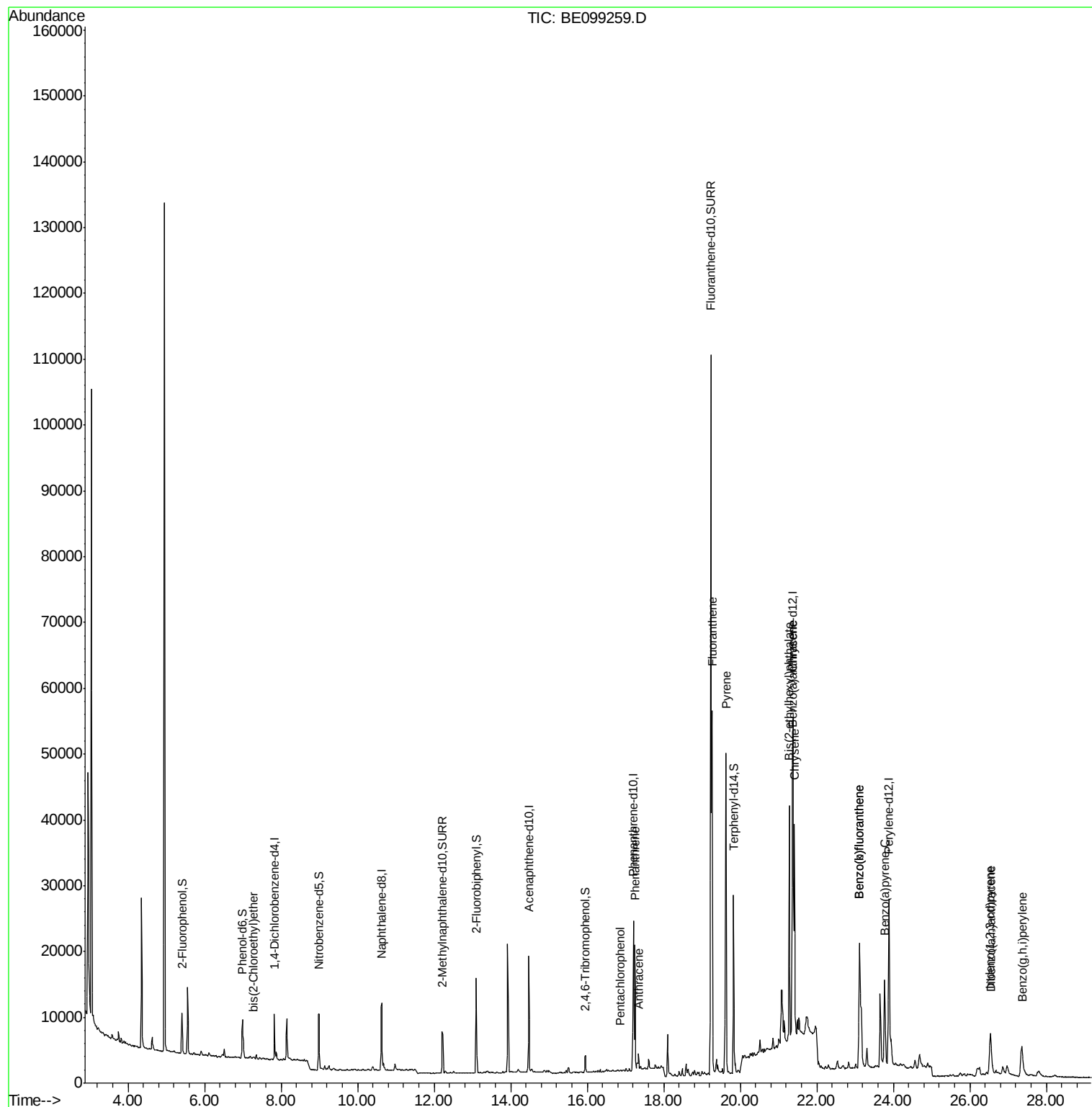
						Qvalue
6) bis(2-Chloroethyl)ether	7.26	93	479	0.038	ng	# 1
22) Pentachlorophenol	16.85	266	32	0.250	ng	# 65
23) Phenanthrene	17.24	178	20488	0.221	ng	99
24) Anthracene	17.34	178	2308	0.028	ng	# 88
26) Fluoranthene	19.26	202	51425	0.434	ng	99
28) Pyrene	19.63	202	47509	0.351	ng	96
30) Benzo(a)anthracene	21.37	228	25976	0.193	ng	95
31) Chrysene	21.41	228	32129	0.224	ng	97
32) Bis(2-ethylhexyl)phthalate	21.28	149	37812	0.236	ng	100
33) Indeno(1,2,3-cd)pyrene	26.53	276	15052	0.111	ng	96
35) Benzo(b)fluoranthene	23.11	252	36750	0.276	ng	# 88
36) Benzo(k)fluoranthene	23.11	252	36750	0.261	ng	# 88
37) Benzo(a)pyrene	23.77	252	23247	0.187	ng	# 91
38) Dibenzo(a,h)anthracene	26.55	278	3620	0.033	ng	# 68
39) Benzo(g,h,i)perylene	27.36	276	14886	0.134	ng	# 93

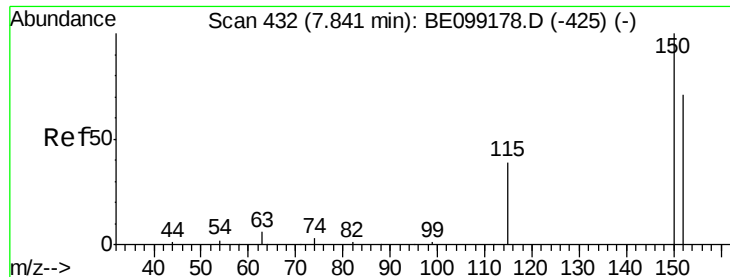
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.83 min Scan# 431

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

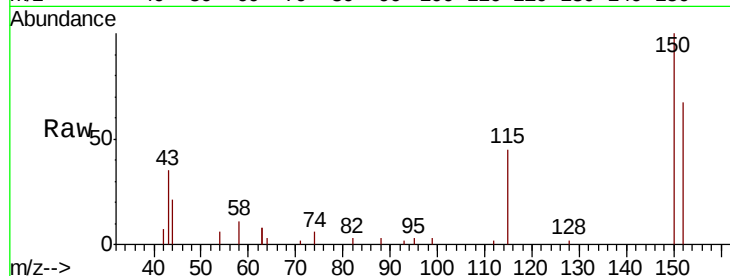
Tgt Ion:152 Resp: 3486

Ion Ratio Lower Upper

152 100

150 149.6 112.8 169.2

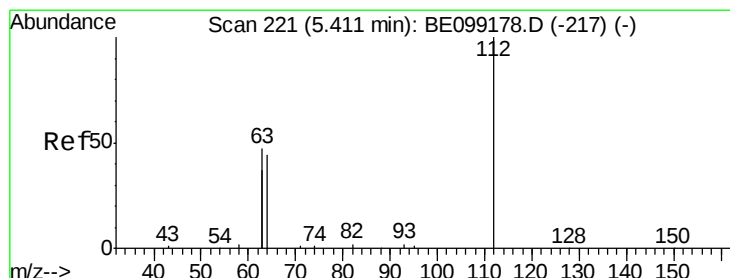
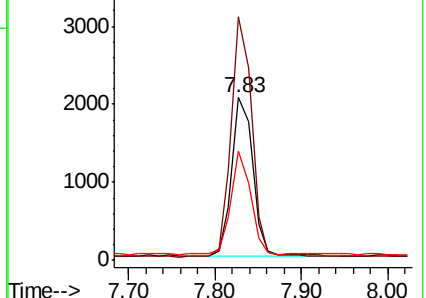
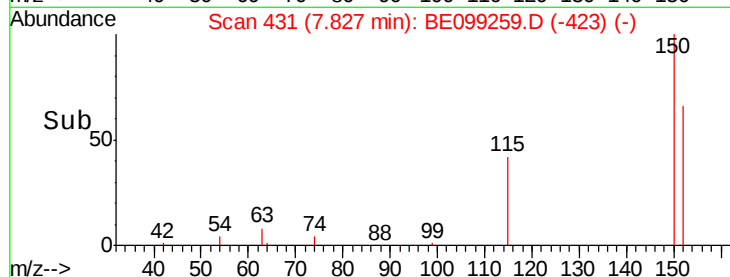
115 66.7 45.1 67.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

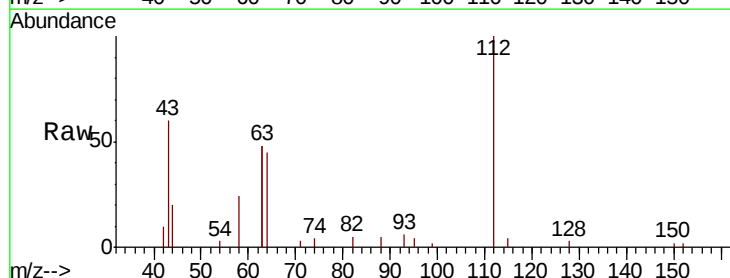
Tgt Ion:112 Resp: 3879

Ion Ratio Lower Upper

112 100

64 56.3 46.2 69.2

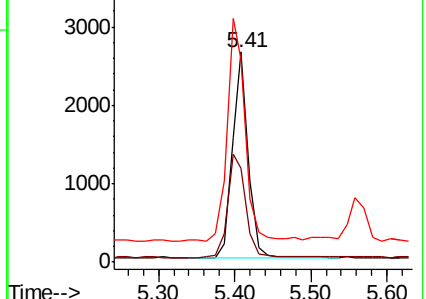
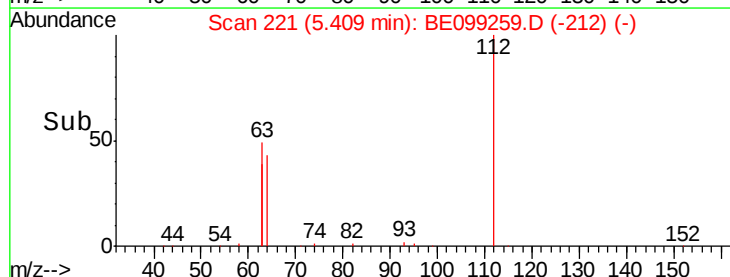
63 121.1 89.9 134.9

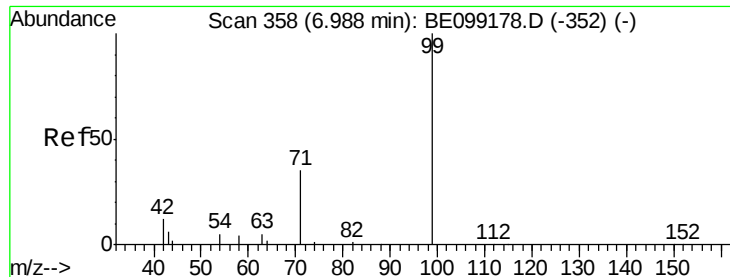


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.351 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

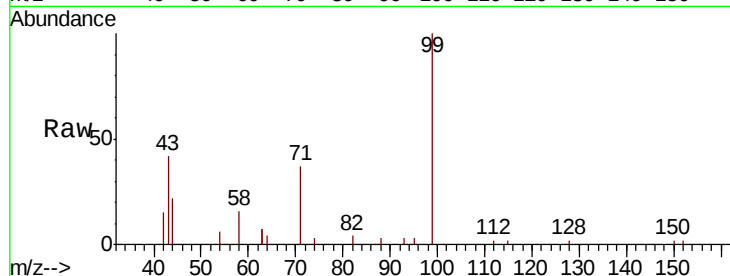
Tgt Ion: 99 Resp: 5575

Ion Ratio Lower Upper

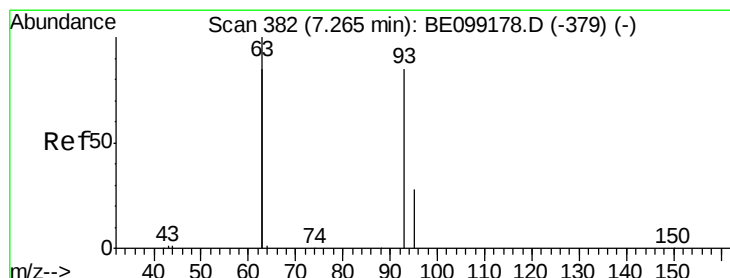
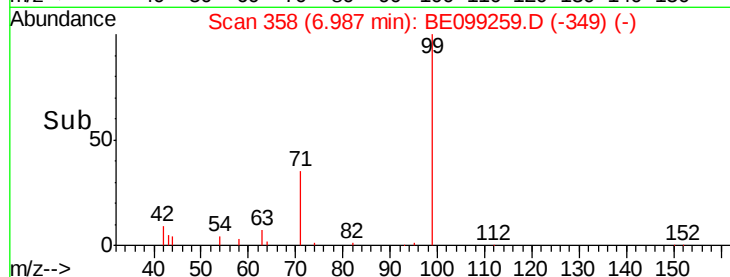
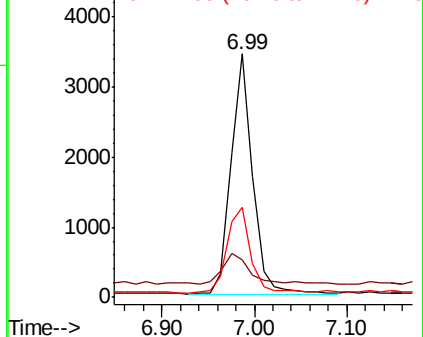
99 100

42 17.4 12.4 18.6

71 38.3 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.038 ng

RT: 7.26 min Scan# 382

Delta R.T. -0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

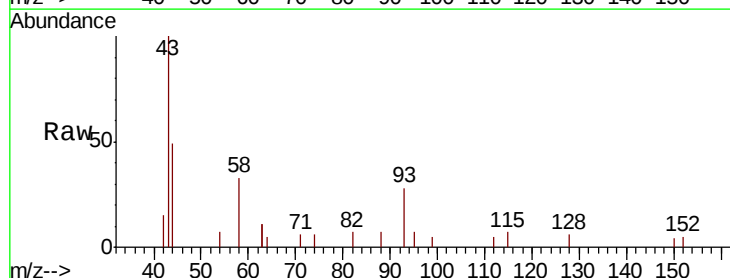
Tgt Ion: 93 Resp: 479

Ion Ratio Lower Upper

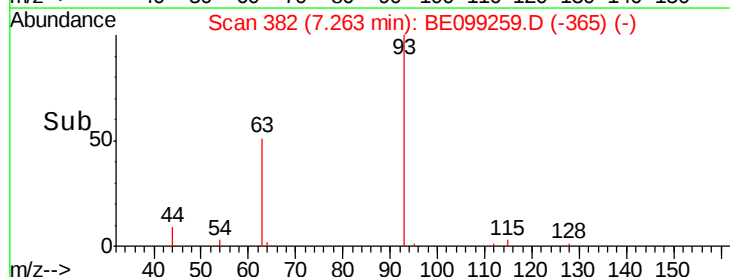
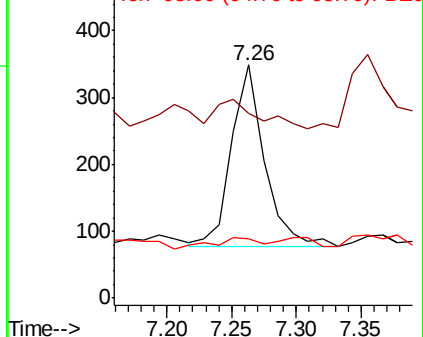
93 100

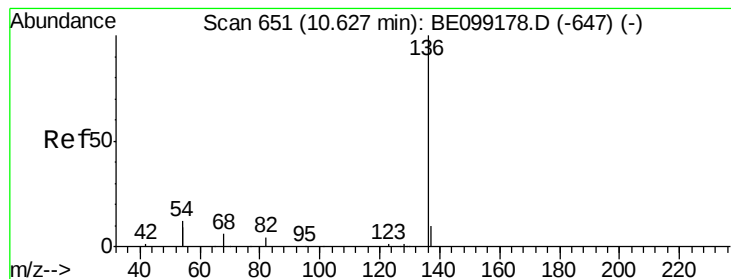
63 19.8 221.4 332.0#

95 9.2 25.8 38.8#



Abundance Ion 93.00 (92.70 to 93.70): BE0
Ion 63.00 (62.70 to 63.70): BE0
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

Tgt Ion: 136 Resp: 13563

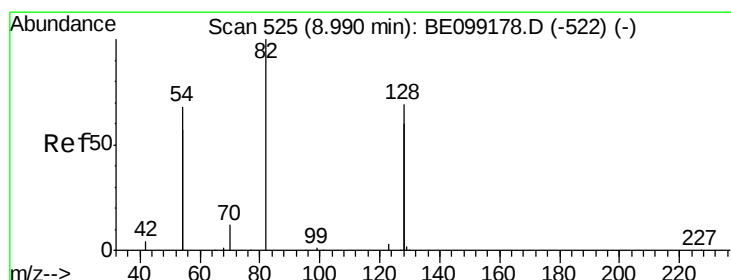
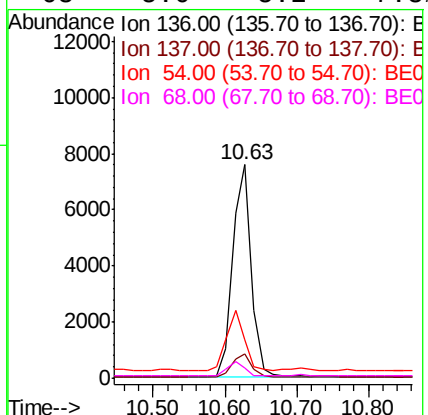
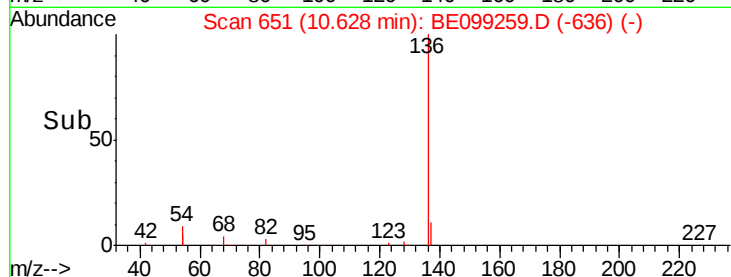
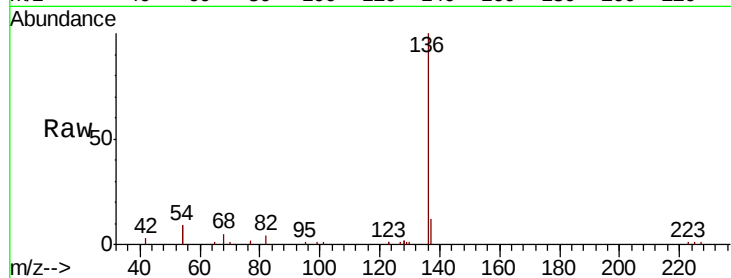
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 18.2 18.7 28.1#

68 5.0 5.2 7.8#



#8

Nitrobenzene-d5

Concen: 0.407 ng

RT: 8.98 min Scan# 524

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

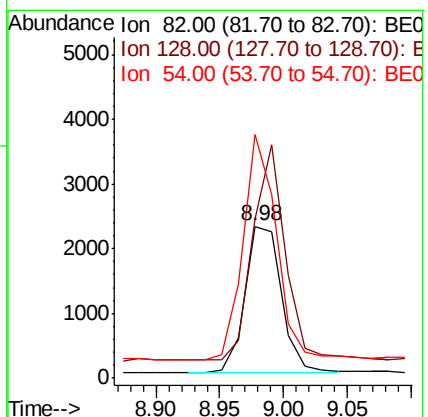
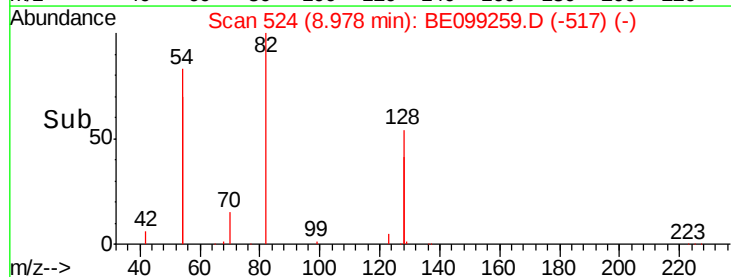
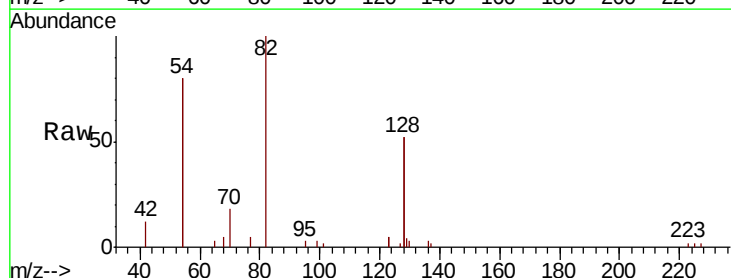
Tgt Ion: 82 Resp: 4510

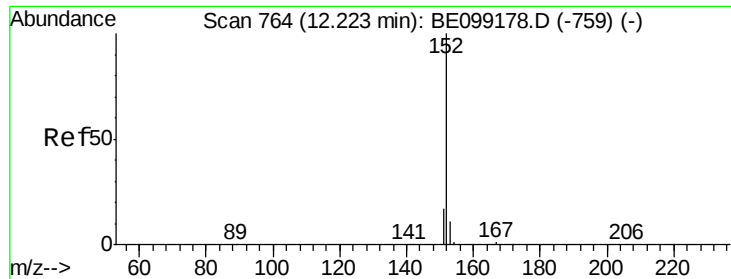
Ion Ratio Lower Upper

82 100

128 104.8 107.5 161.3#

54 160.8 106.3 159.5#

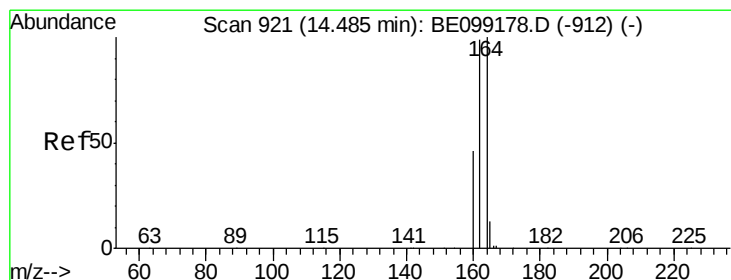
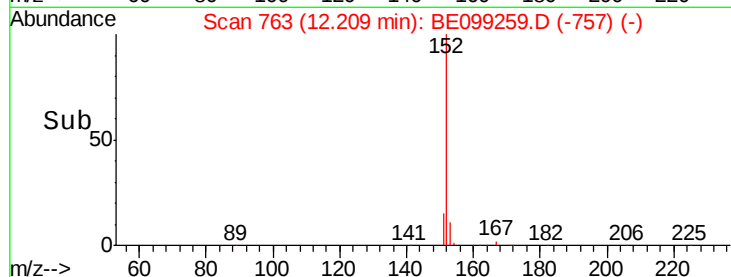
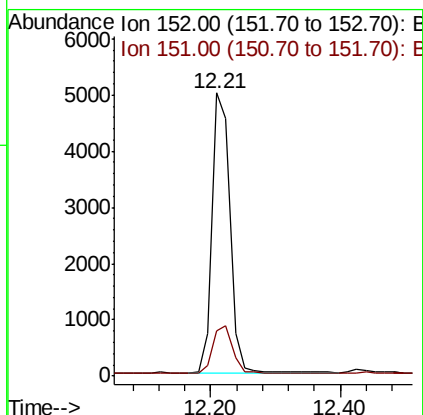
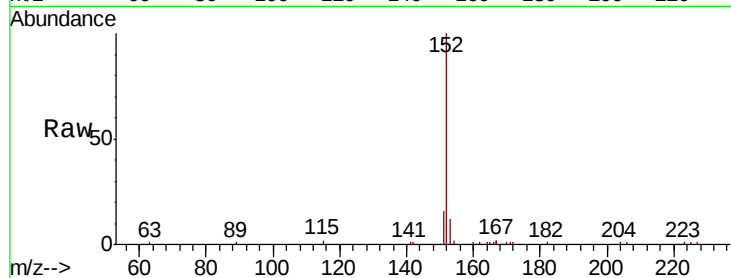




#11
 2-Methylnaphthalene-d10
 Concen: 0.371 ng
 RT: 12.21 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: BE099259.D
 Acq: 29 Mar 2019 17:45

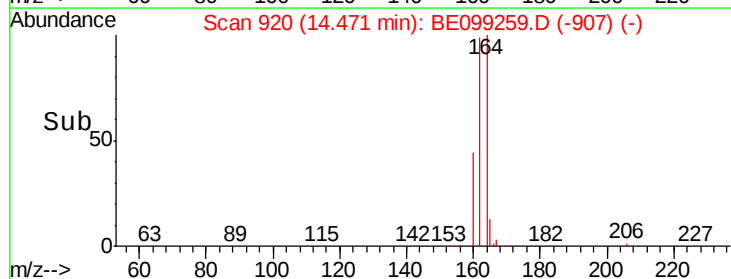
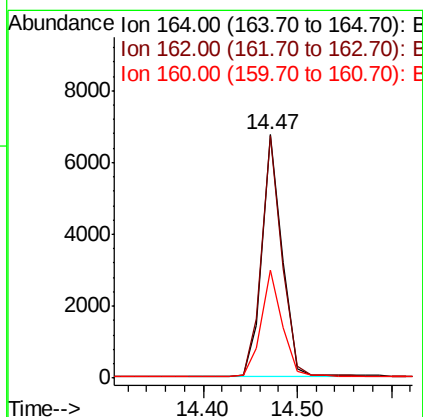
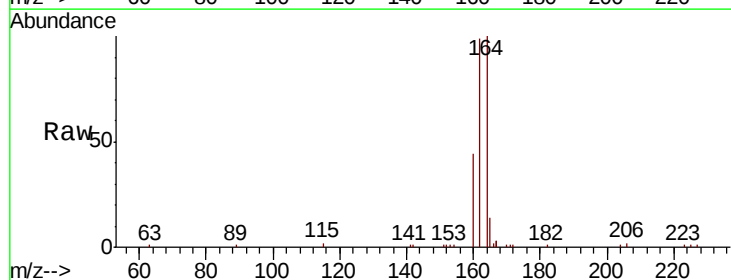
Instrument :
 BNA_E
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 EXT-028-SW005-032519

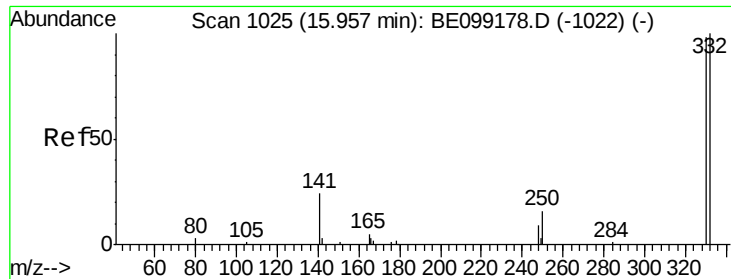
Tgt Ion:152 Resp: 9706
 Ion Ratio Lower Upper
 152 100
 151 18.5 15.0 22.6



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.47 min Scan# 920
 Delta R.T. -0.01 min
 Lab File: BE099259.D
 Acq: 29 Mar 2019 17:45

Tgt Ion:164 Resp: 10052
 Ion Ratio Lower Upper
 164 100
 162 99.4 79.2 118.8
 160 44.4 36.7 55.1

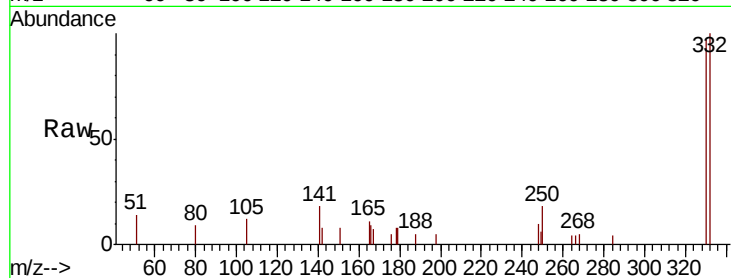




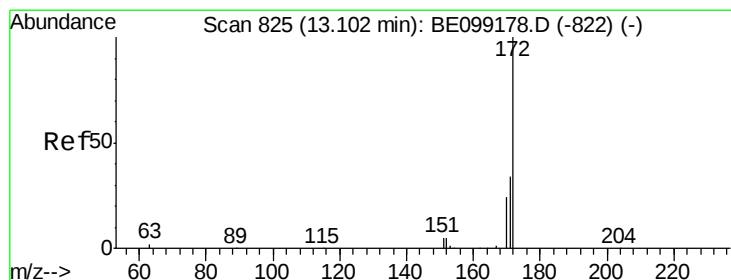
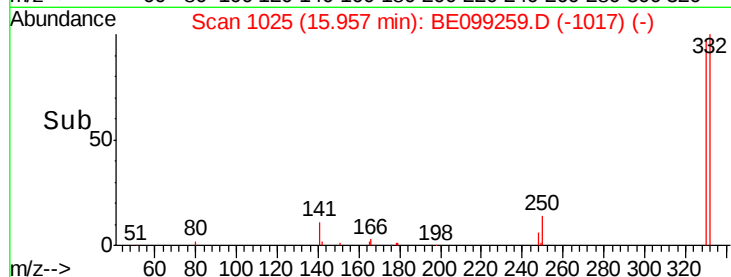
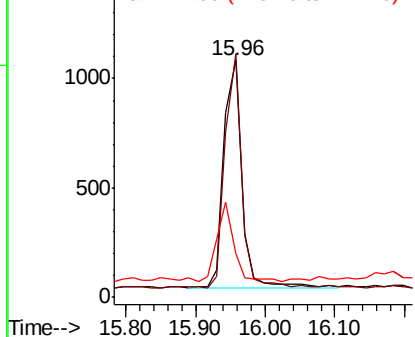
#14
 2,4,6-Tribromophenol
 Concen: 0.551 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE099259.D
 Acq: 29 Mar 2019 17:45

Instrument :
 BNA_E
 ClientSampleId :
 EXT-028-SW005-032519

Tgt Ion:330 Resp: 1849
 Ion Ratio Lower Upper
 330 100
 332 94.3 71.3 106.9
 141 33.1 21.7 32.5#

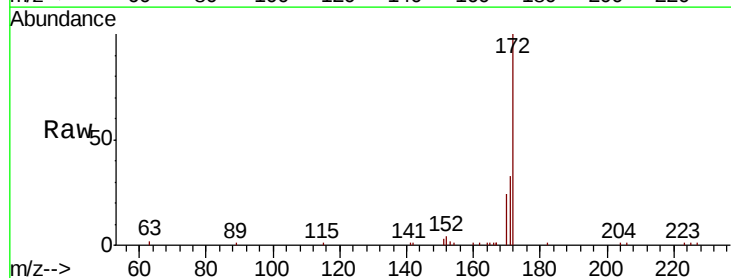


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

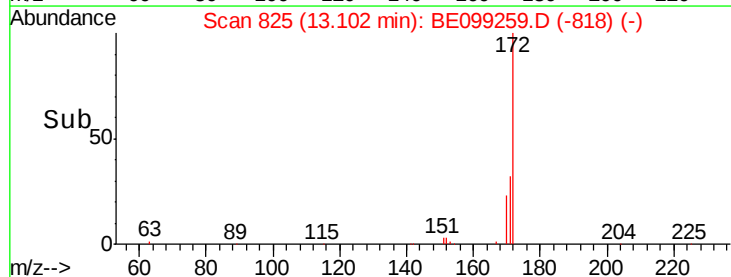
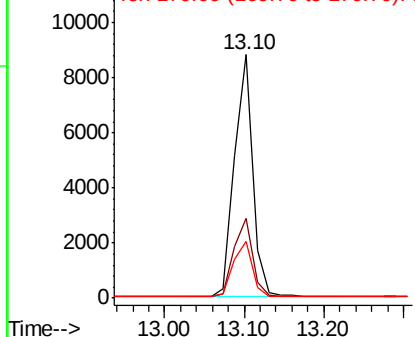


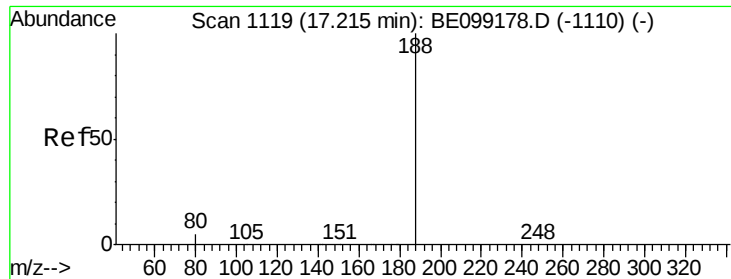
#15
 2-Fluorobiphenyl
 Concen: 0.342 ng
 RT: 13.10 min Scan# 825
 Delta R.T. 0.00 min
 Lab File: BE099259.D
 Acq: 29 Mar 2019 17:45

Tgt Ion:172 Resp: 14000
 Ion Ratio Lower Upper
 172 100
 171 32.7 27.4 41.0
 170 23.5 19.1 28.7



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

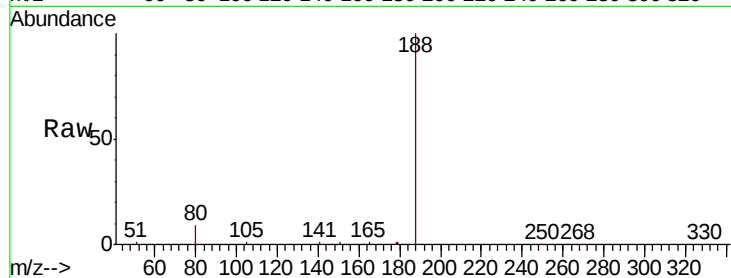
Tgt Ion:188 Resp: 31601

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 4.5 6.7#



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

17.20

25000

20000

15000

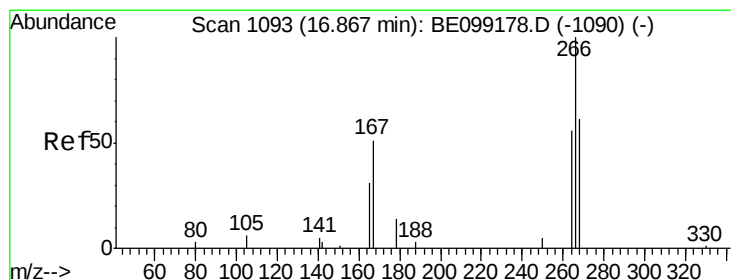
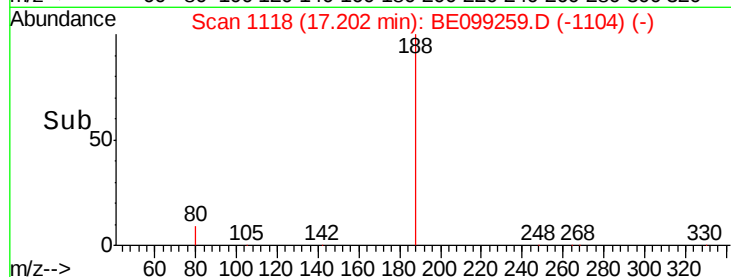
10000

5000

0

17.10 17.20 17.30

Time-->



#22

Pentachlorophenol

Concen: 0.250 ng

RT: 16.85 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

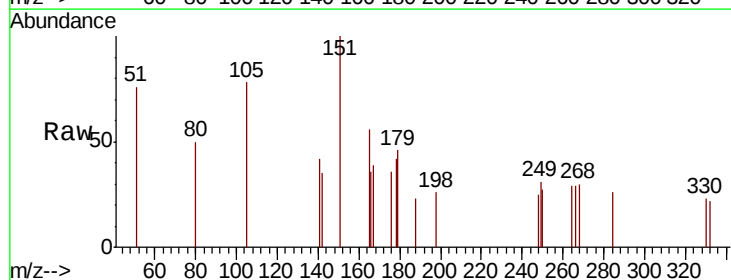
Tgt Ion:266 Resp: 32

Ion Ratio Lower Upper

266 100

264 100.0 54.4 81.6#

268 103.2 61.3 91.9#



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

80

60

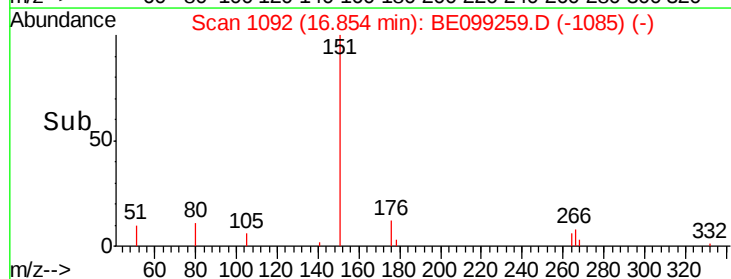
40

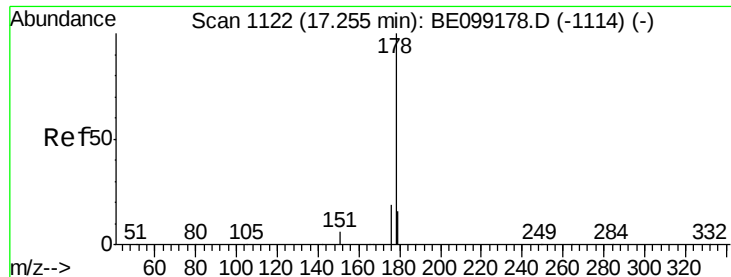
20

0

16.80 16.85 16.90

Time-->





#23

Phenanthrene

Concen: 0.221 ng

RT: 17.24 min Scan# 1121

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

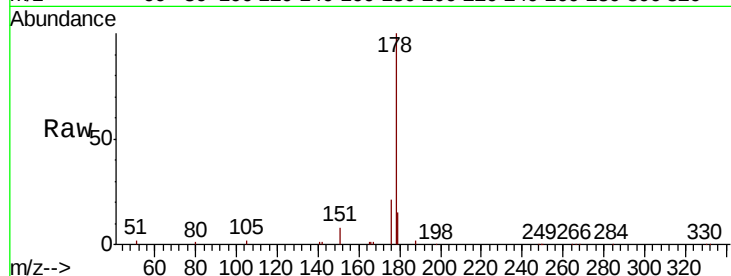
Tgt Ion:178 Resp: 20488

Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.2

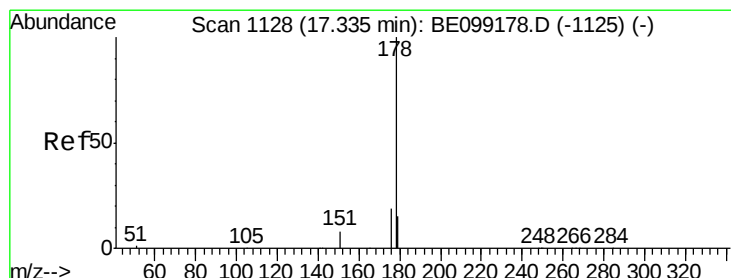
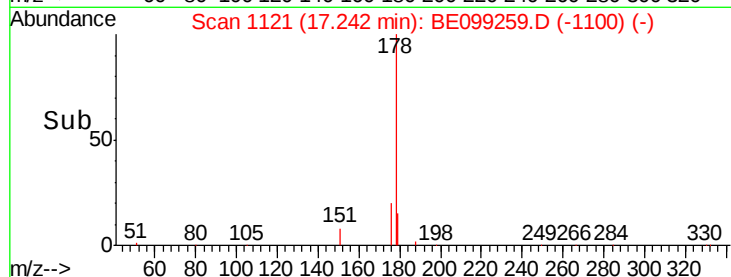
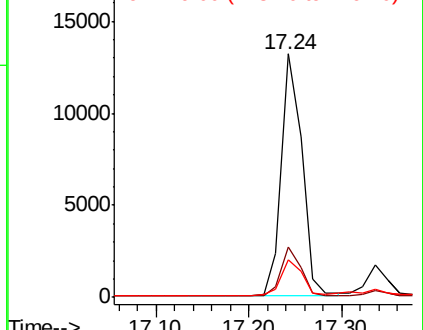
179 15.3 12.3 18.5



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: 0.028 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

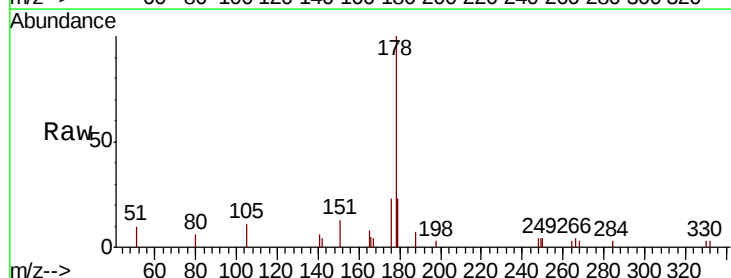
Tgt Ion:178 Resp: 2308

Ion Ratio Lower Upper

178 100

176 20.8 15.1 22.7

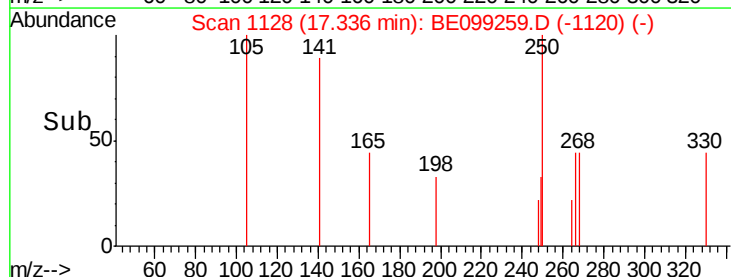
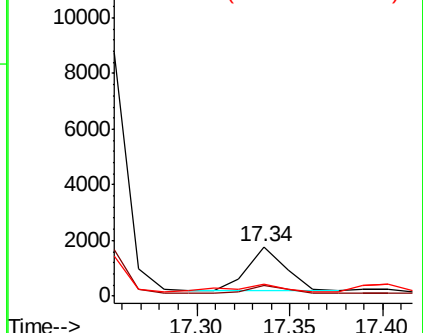
179 25.0 12.4 18.6#

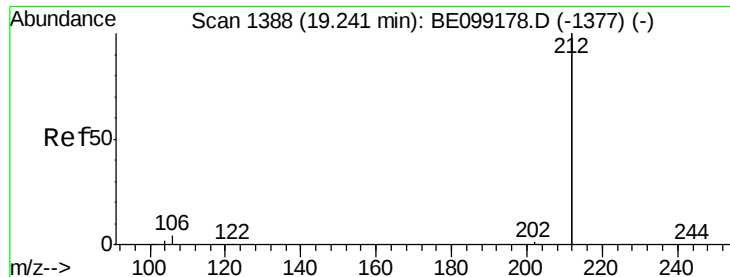


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.377 ng

RT: 19.23 min Scan# 1386

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

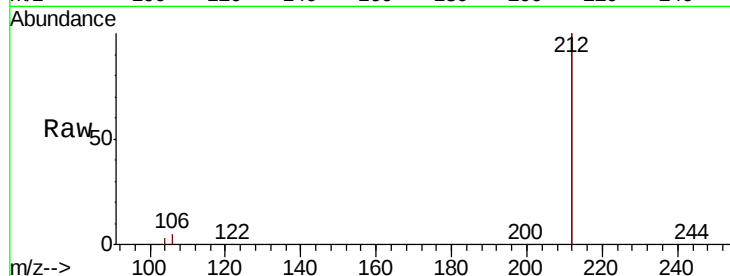
Tgt Ion: 212 Resp: 144450

Ion Ratio Lower Upper

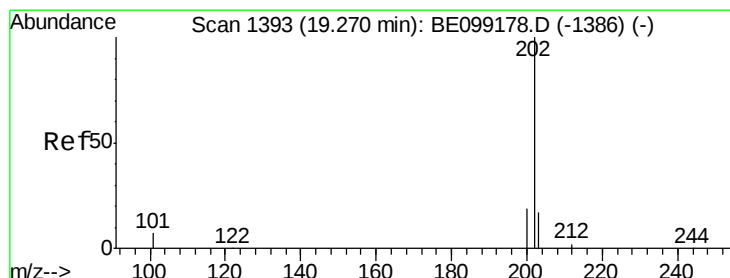
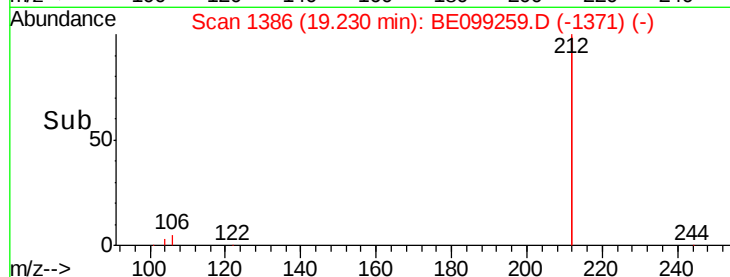
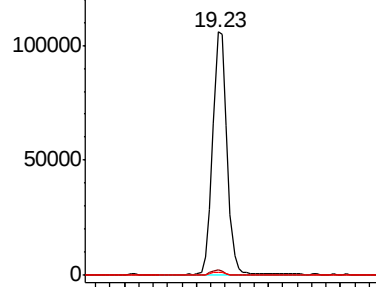
212 100

106 2.1 1.8 2.8

104 1.2 1.1 1.7



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: 0.434 ng

RT: 19.26 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

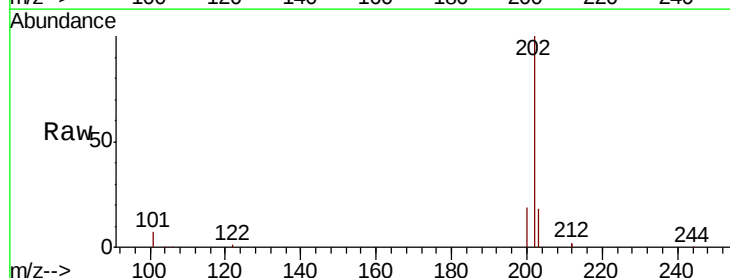
Tgt Ion: 202 Resp: 51425

Ion Ratio Lower Upper

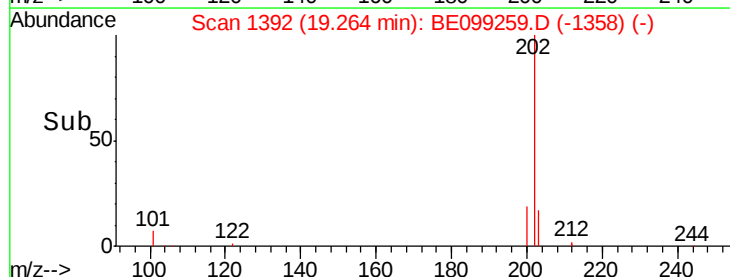
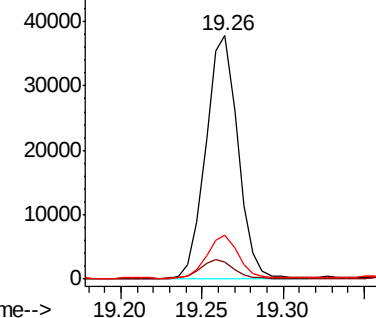
202 100

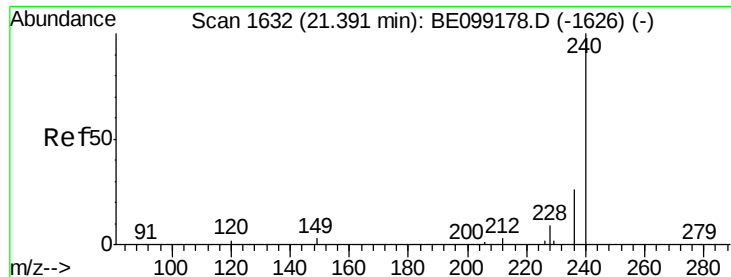
101 8.1 7.0 10.4

203 17.2 13.8 20.6



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

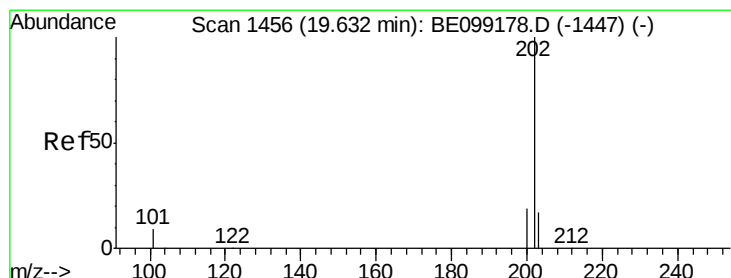
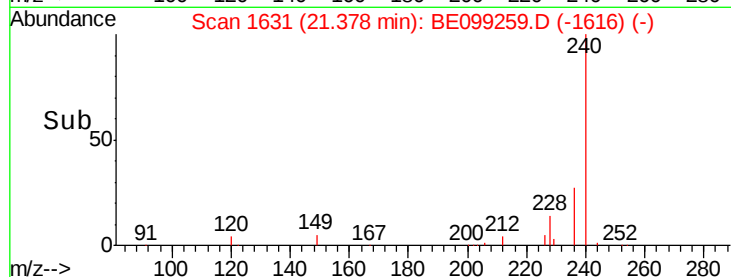
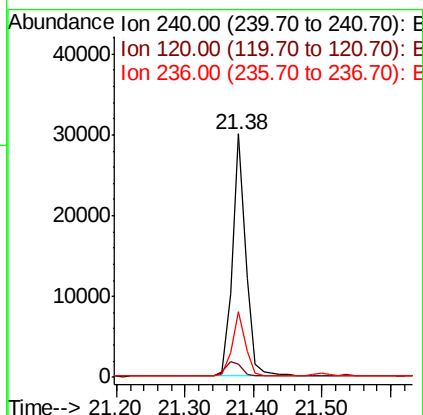
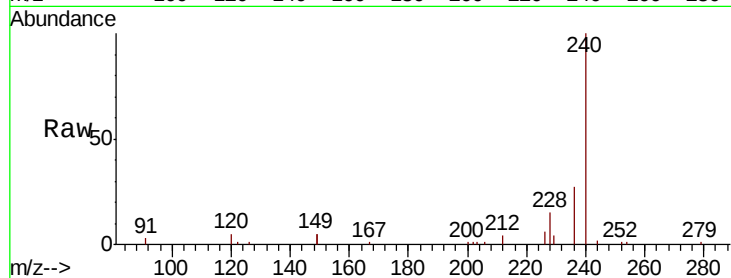




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BE099259.D
Acq: 29 Mar 2019 17:45

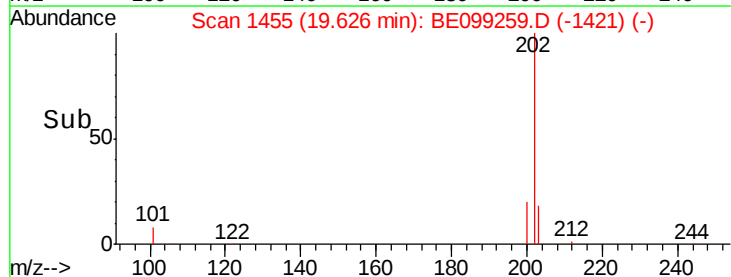
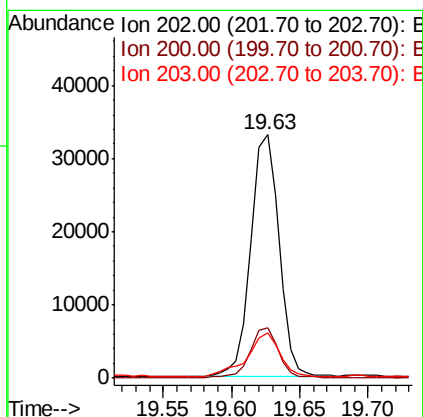
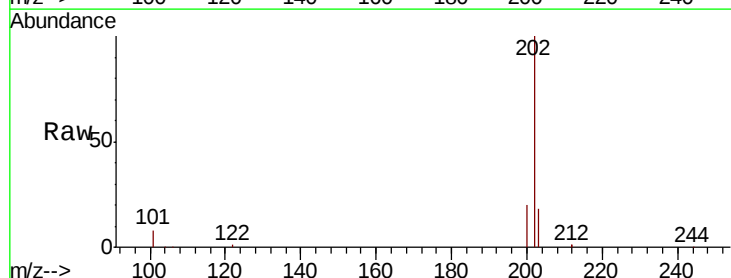
Instrument :
BNA_E
ClientSampleId :
EXT-028-SW005-032519

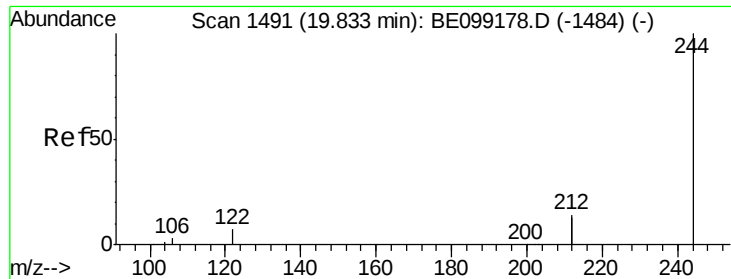
Tgt Ion:240 Resp: 40718
Ion Ratio Lower Upper
240 100
120 5.2 2.6 3.8#
236 27.0 20.9 31.3



#28
Pyrene
Concen: 0.351 ng
RT: 19.63 min Scan# 1455
Delta R.T. -0.01 min
Lab File: BE099259.D
Acq: 29 Mar 2019 17:45

Tgt Ion:202 Resp: 47509
Ion Ratio Lower Upper
202 100
200 19.8 15.8 23.8
203 20.9 14.1 21.1





#29

Terphenyl-d14

Concen: 0.266 ng

RT: 19.83 min Scan# 1490

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

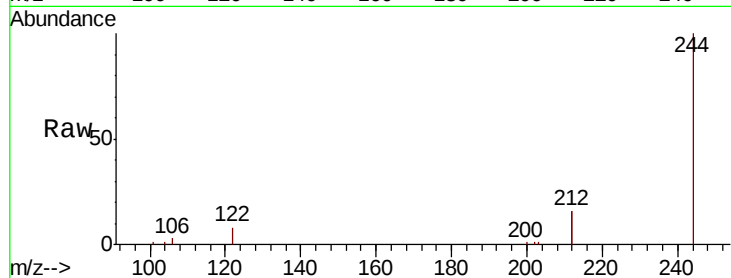
Tgt Ion:244 Resp: 23544

Ion Ratio Lower Upper

244 100

212 31.1 22.7 34.1

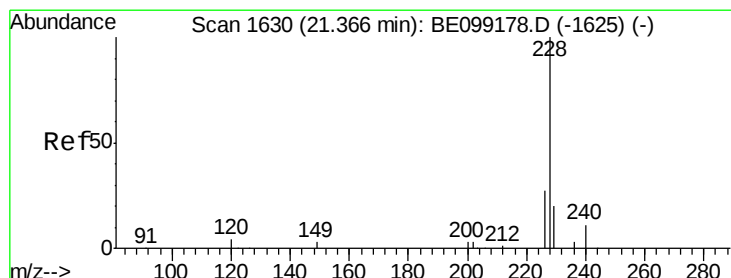
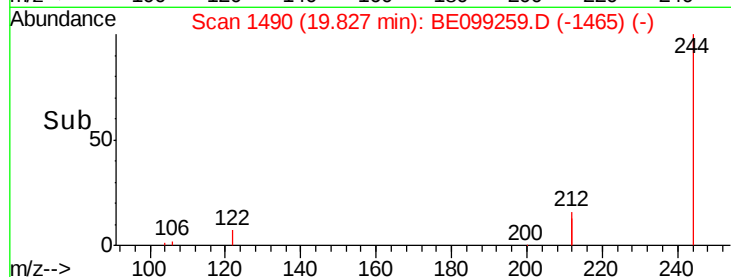
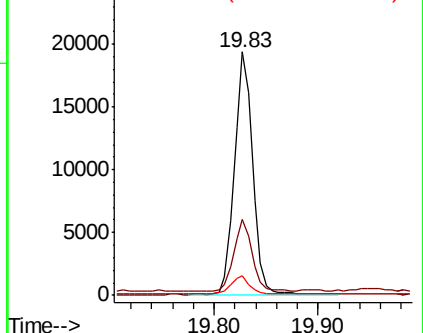
122 7.8 5.8 8.6



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: 0.193 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

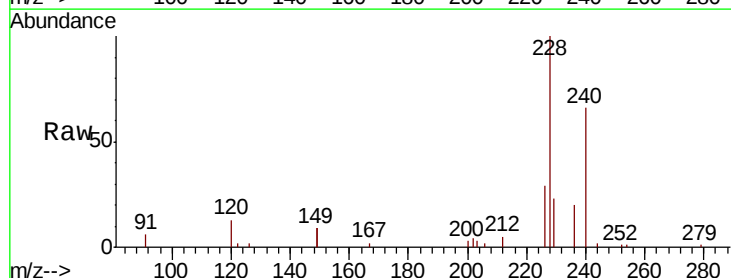
Tgt Ion:228 Resp: 25976

Ion Ratio Lower Upper

228 100

226 29.4 21.7 32.5

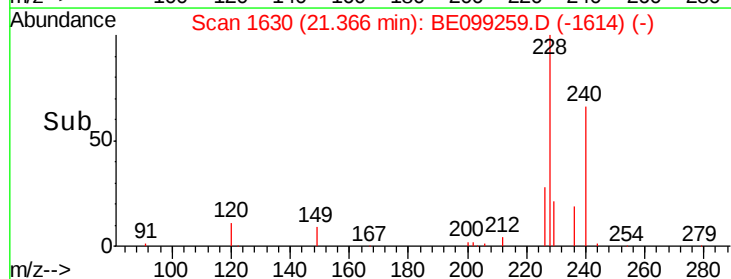
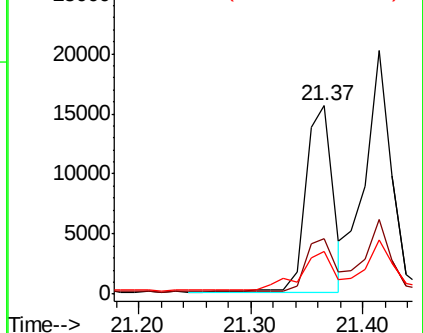
229 22.6 15.9 23.9

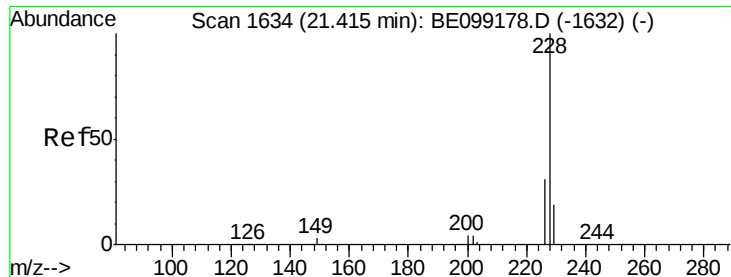


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.224 ng

RT: 21.41 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

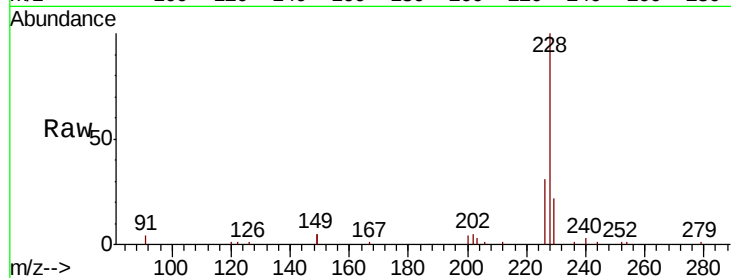
Tgt Ion:228 Resp: 32129

Ion Ratio Lower Upper

228 100

226 30.7 24.8 37.2

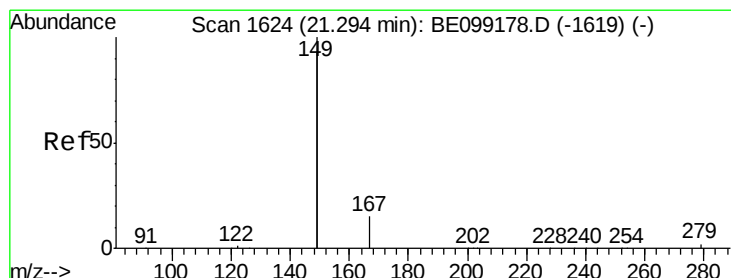
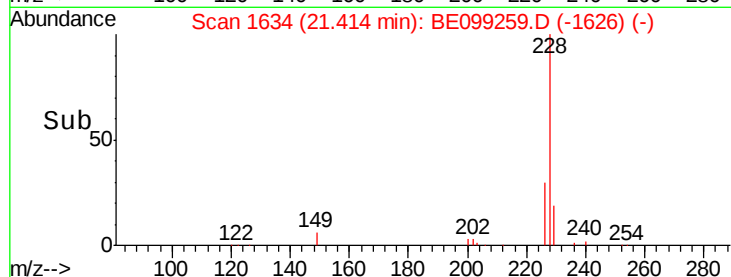
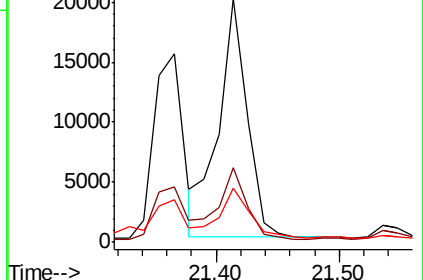
229 22.1 15.4 23.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.236 ng

RT: 21.28 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

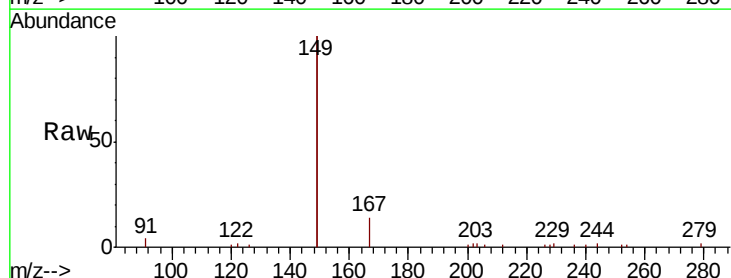
Tgt Ion:149 Resp: 37812

Ion Ratio Lower Upper

149 100

167 7.2 5.9 8.9

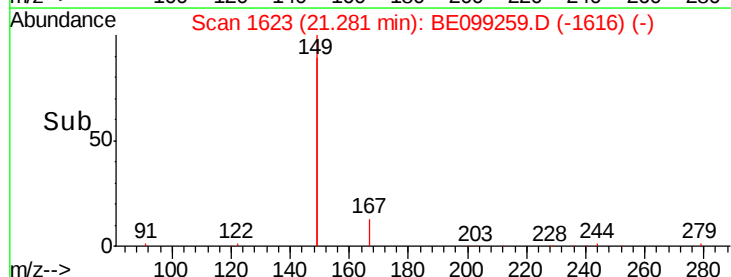
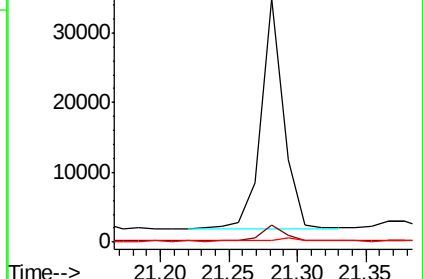
279 1.3 1.0 1.6

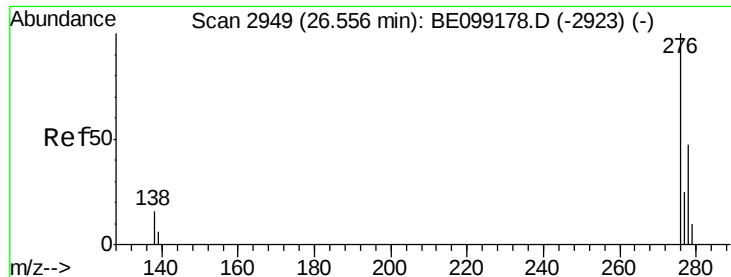


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.111 ng

RT: 26.53 min Scan# 2942

Delta R.T. -0.02 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

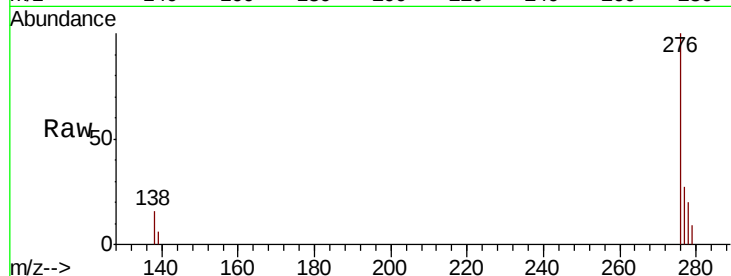
Tgt Ion:276 Resp: 15052

Ion Ratio Lower Upper

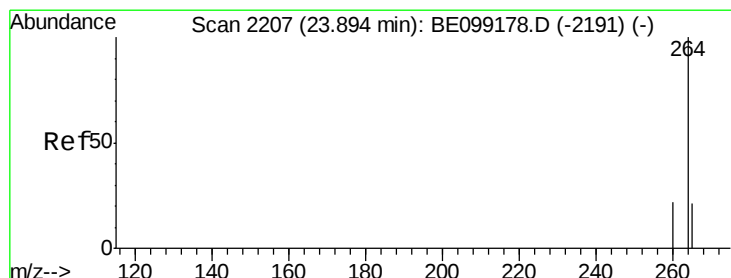
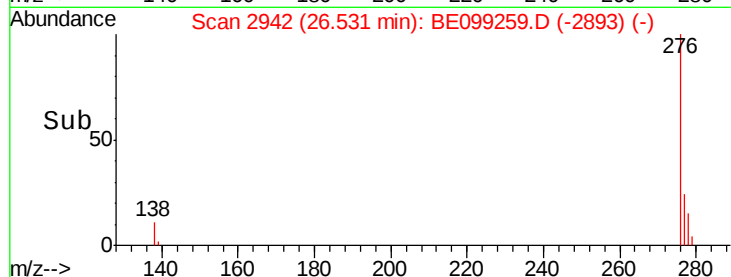
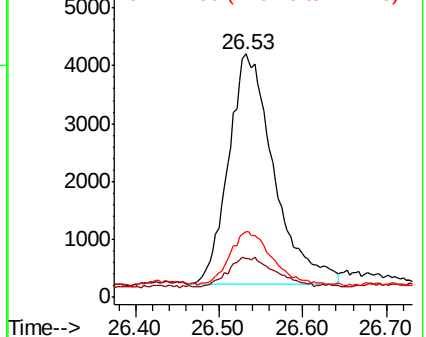
276 100

138 12.9 12.9 19.3

277 22.2 18.3 27.5



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# 2204

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

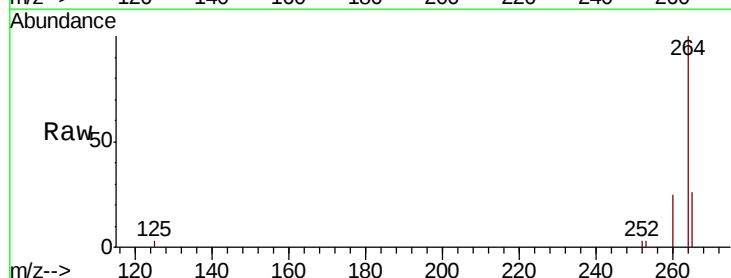
Tgt Ion:264 Resp: 40488

Ion Ratio Lower Upper

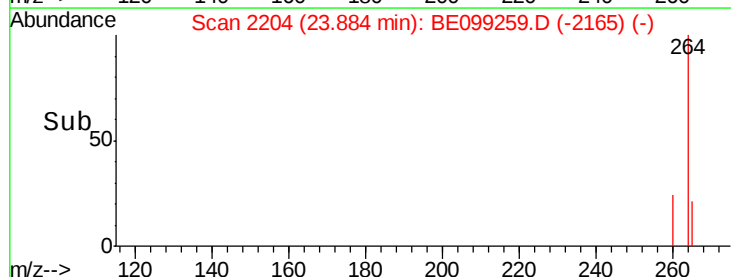
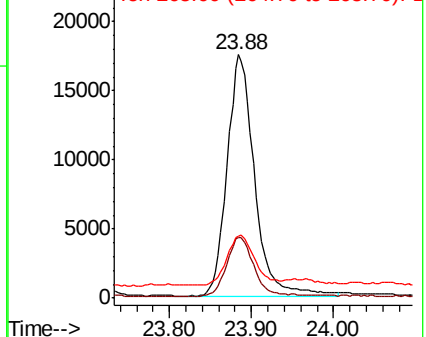
264 100

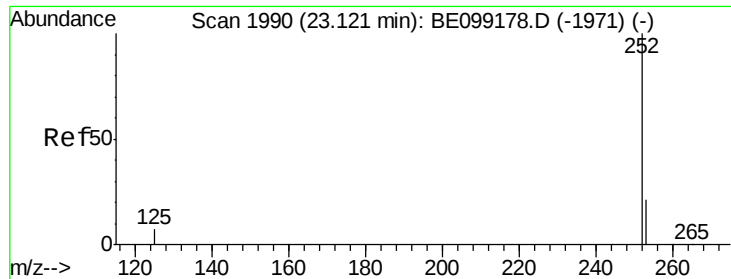
260 24.8 18.2 27.2

265 25.5 21.8 32.8



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: 0.276 ng

RT: 23.11 min Scan# 1988

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

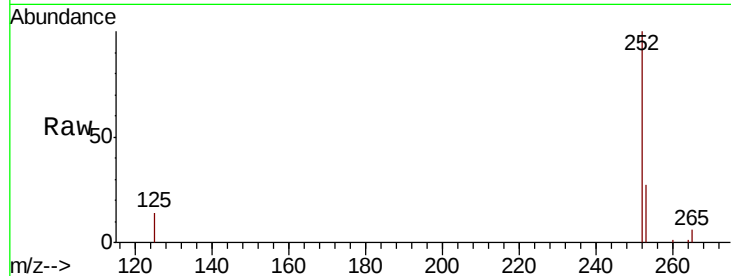
Tgt Ion:252 Resp: 36750

Ion Ratio Lower Upper

252 100

253 26.9 17.8 26.8#

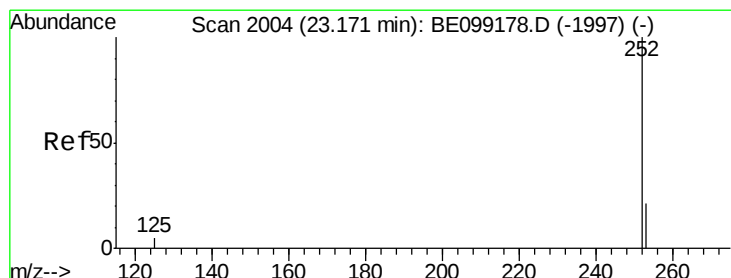
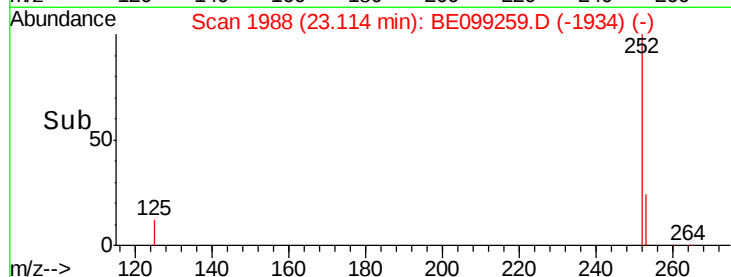
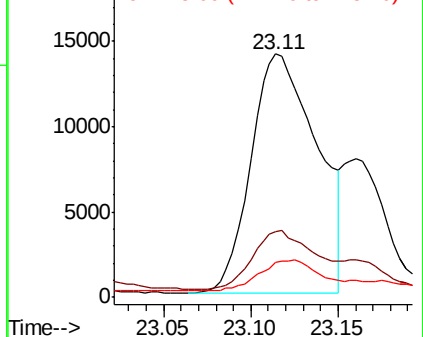
125 14.3 6.1 9.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.261 ng

RT: 23.11 min Scan# 1988

Delta R.T. -0.06 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

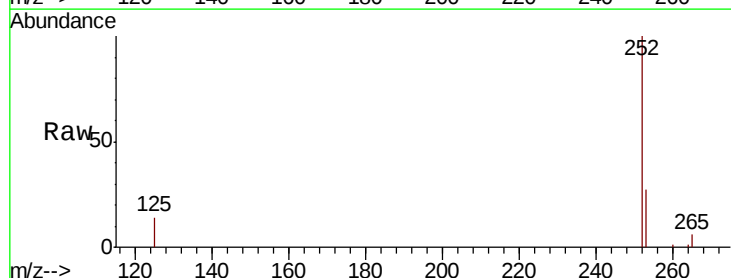
Tgt Ion:252 Resp: 36750

Ion Ratio Lower Upper

252 100

253 26.9 17.8 26.6#

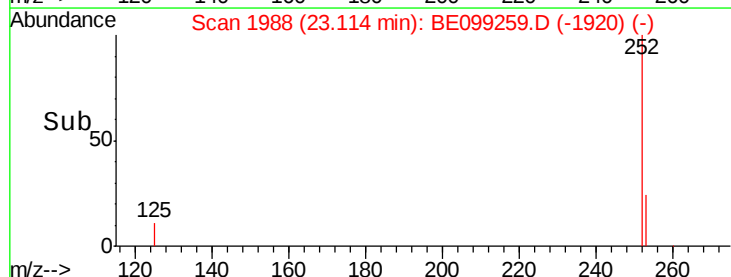
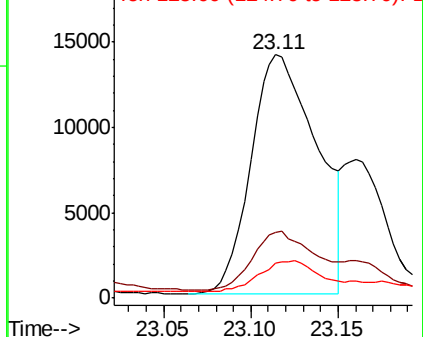
125 14.3 5.9 8.9#

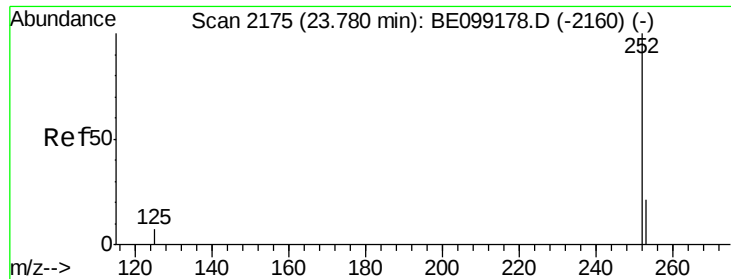


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.187 ng

RT: 23.77 min Scan# 2172

Delta R.T. -0.01 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519

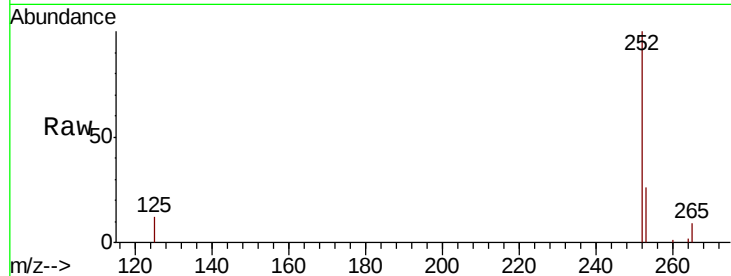
Tgt Ion:252 Resp: 23247

Ion Ratio Lower Upper

252 100

253 26.5 18.1 27.1

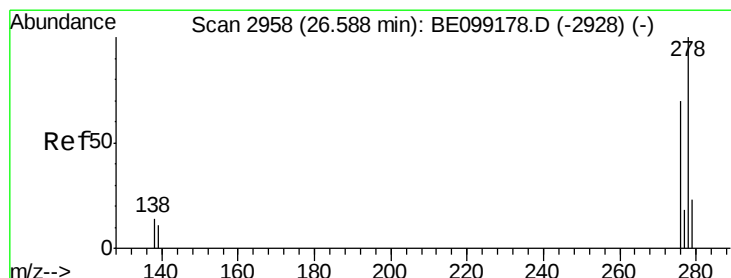
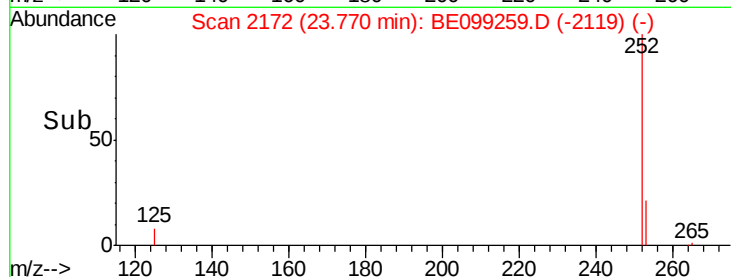
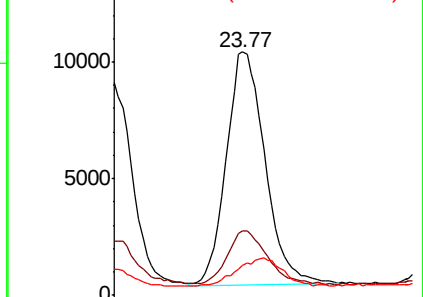
125 12.1 6.8 10.2#



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: 26.55 min Scan# 2948

Delta R.T. -0.04 min

Lab File: BE099259.D

Acq: 29 Mar 2019 17:45

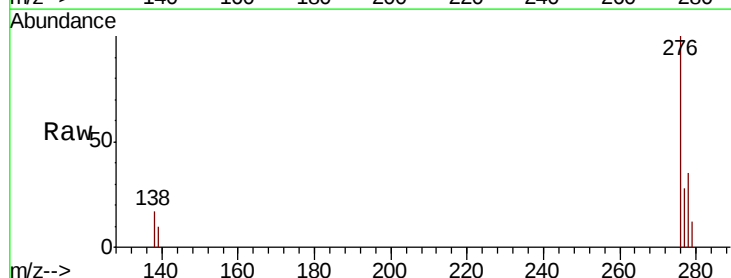
Tgt Ion:278 Resp: 3620

Ion Ratio Lower Upper

278 100

139 29.8 9.5 14.3#

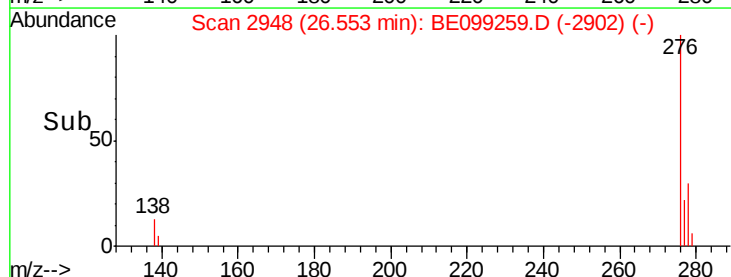
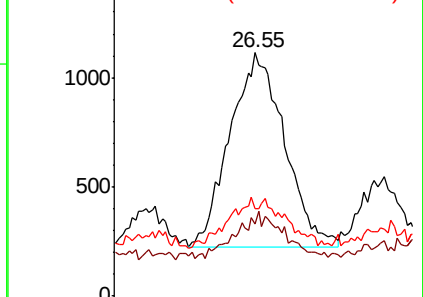
279 35.9 19.1 28.7#

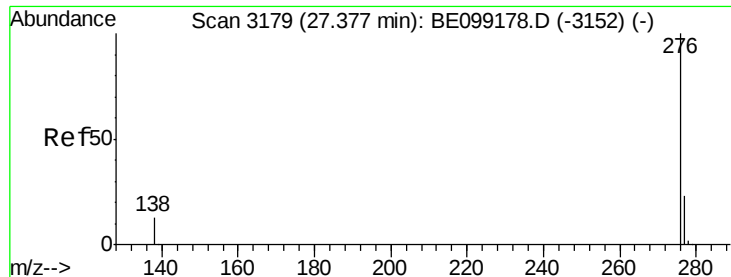


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.134 ng

RT: 27.36 min Scan# 3175

Delta R.T. -0.01 min

Lab File: BE099259.D

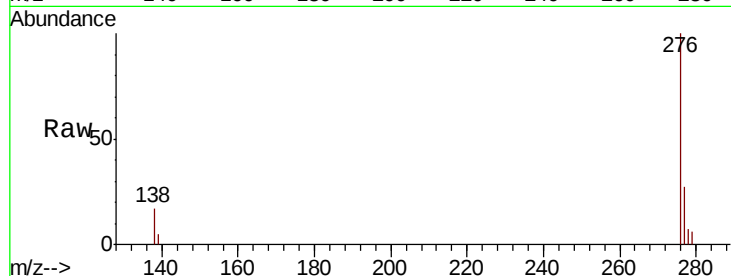
Acq: 29 Mar 2019 17:45

Instrument :

BNA_E

ClientSampleId :

EXT-028-SW005-032519



Tgt Ion: 276 Resp: 14886

Ion Ratio Lower Upper

276 100

277 27.1 19.0 28.4

138 17.2 11.1 16.7#

Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

