

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE031119\
 Data File : BE098888.D
 Acq On : 12 Mar 2019 8:24
 Operator : JU/SJ
 Sample : SSTDC00.4
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 12 16:39:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 06 15:33:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	881	0.40	ng	0.00
7) Naphthalene-d8	10.59	136	3839	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	2578	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	6432	0.40	ng	0.00
27) Chrysene-d12	21.39	240	17421	0.40	ng	-0.01
34) Perylene-d12	23.89	264	16224	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	867	0.33	ng	0.01
5) Phenol-d6	6.99	99	1374	0.37	ng	0.00
8) Nitrobenzene-d5	8.97	82	1352	0.34	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	2829	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	428	0.33	ng	-0.01
15) 2-Fluorobiphenyl	13.09	172	4167	0.39	ng	0.00
25) Fluoranthene-d10	19.24	212	37081	0.36	ng	0.00
29) Terphenyl-d14	19.84	244	14164	0.33	ng	0.00

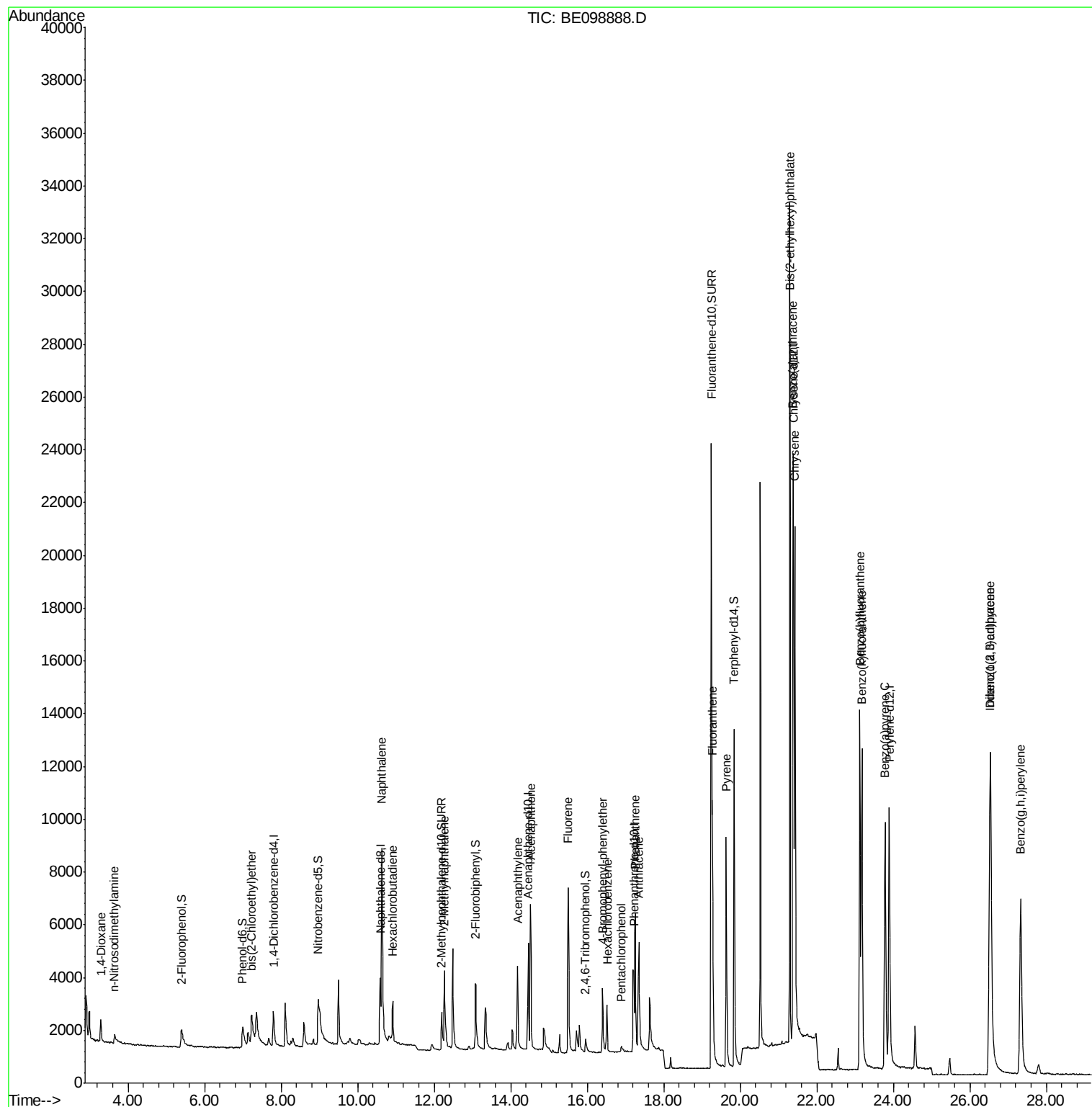
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.29	88	576	0.320	ng	89
3) n-Nitrosodimethylamine	3.63	42	395	0.178	ng	# 90
6) bis(2-Chloroethyl)ether	7.23	93	923	0.321	ng	88
9) Naphthalene	10.63	128	17539	0.399	ng	100
10) Hexachlorobutadiene	10.91	225	1108	0.381	ng	97
12) 2-Methylnaphthalene	12.27	142	2771	0.389	ng	99
16) Acenaphthylene	14.18	152	4902	0.370	ng	98
17) Acenaphthene	14.51	154	3000	0.381	ng	99
18) Fluorene	15.50	166	4213	0.371	ng	100
20) 4-Bromophenyl-phenylether	16.40	248	1265	0.363	ng	92
21) Hexachlorobenzene	16.52	284	1646	0.397	ng	95
22) Pentachlorophenol	16.89	266	240	0.435	ng	# 83
23) Phenanthrene	17.25	178	7025	0.384	ng	99
24) Anthracene	17.35	178	5873	0.376	ng	99
26) Fluoranthene	19.27	202	9292	0.360	ng	99
28) Pyrene	19.63	202	9702	0.182	ng	99
30) Benzo(a)anthracene	21.38	228	16639	0.306	ng	97
31) Chrysene	21.43	228	19943	0.343	ng	98
32) Bis(2-ethylhexyl)phthalate	21.29	149	37726	0.326	ng	100
33) Indeno(1,2,3-cd)pyrene	26.52	276	21332	0.347	ng	98
35) Benzo(b)fluoranthene	23.13	252	19089m	0.358	ng	
36) Benzo(k)fluoranthene	23.18	252	21108	0.378	ng	98
37) Benzo(a)pyrene	23.78	252	17317	0.339	ng	96
38) Dibenzo(a,h)anthracene	26.54	278	17576	0.363	ng	# 94
39) Benzo(g,h,i)perylene	27.33	276	18221	0.360	ng	97

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

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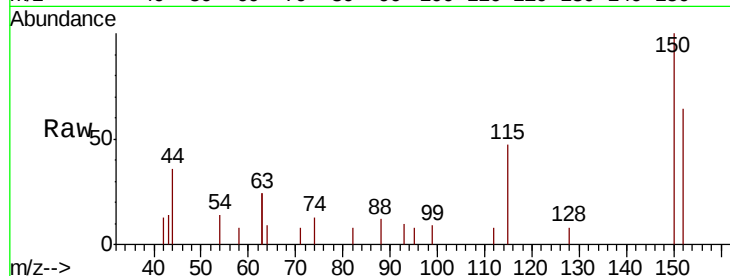


#1

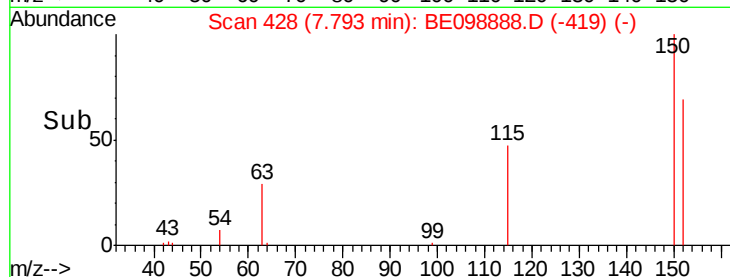
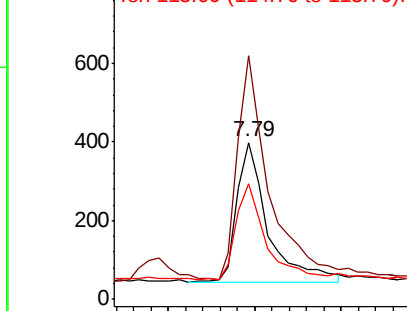
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.79 min Scan# 428
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 881
Ion Ratio Lower Upper
152 100
150 155.1 122.5 183.7
115 73.7 57.4 86.2



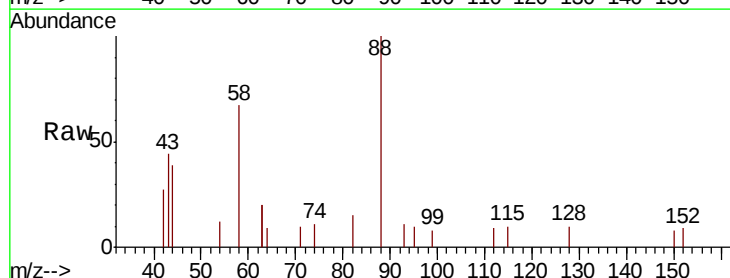
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



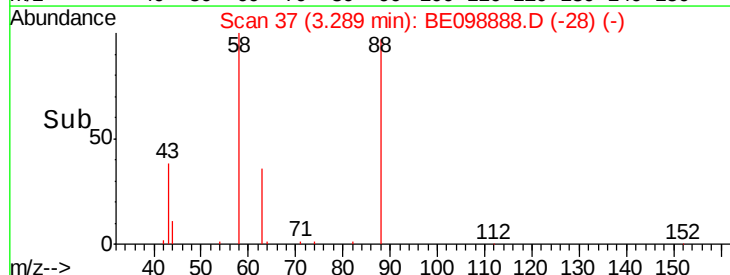
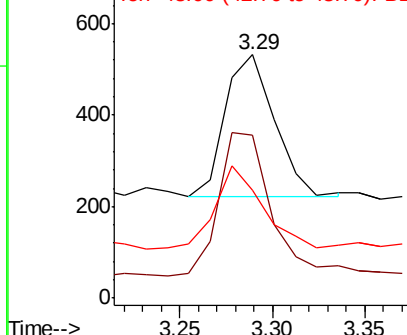
#2

1,4-Dioxane
Concen: 0.320 ng
RT: 3.29 min Scan# 37
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Tgt Ion: 88 Resp: 576
Ion Ratio Lower Upper
88 100
58 108.5 75.8 113.6
43 56.1 41.8 62.8



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



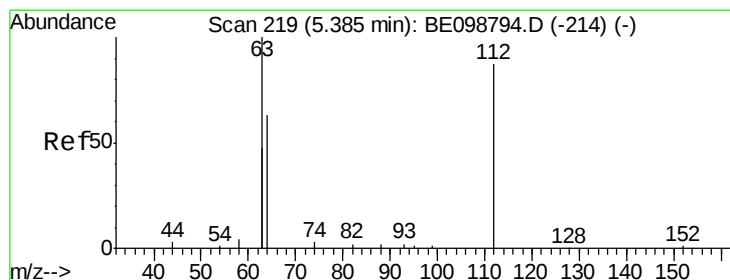
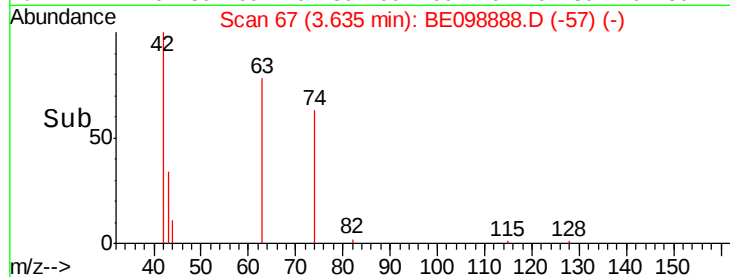
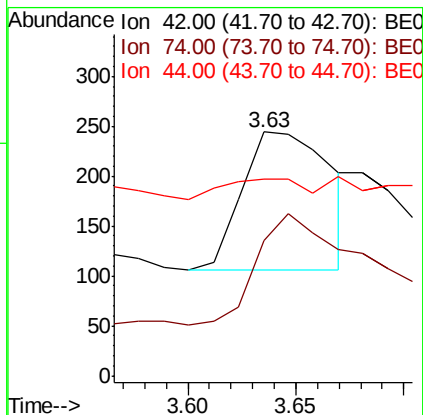
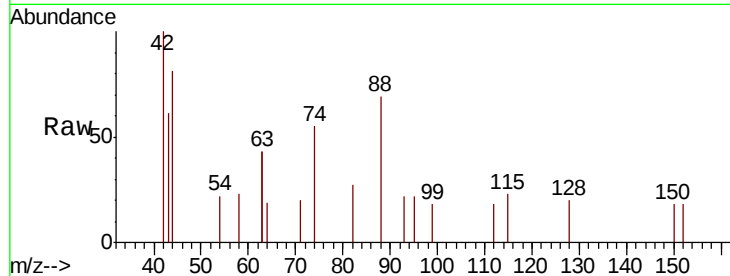


#3

n-Nitrosodimethylamine
 Concen: 0.178 ng
 RT: 3.63 min Scan# 67
 Delta R.T. 0.01 min
 Lab File: BE098888.D
 Acq: 12 Mar 2019 8:24

Instrument :
 BNA_E
 ClientSampled :

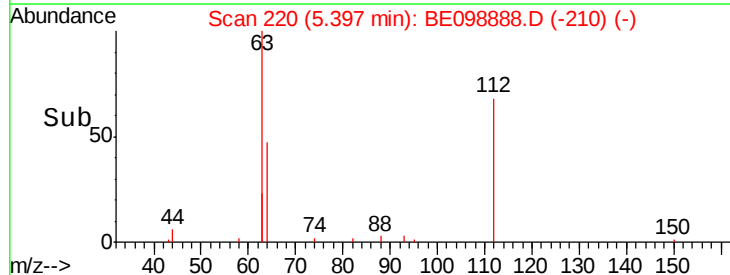
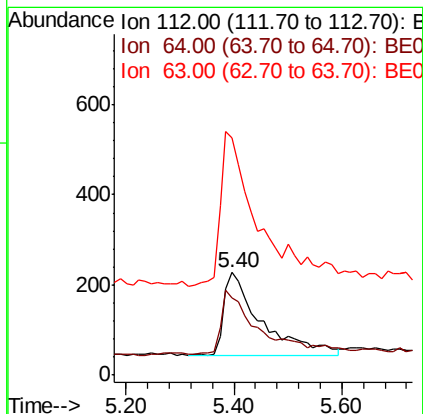
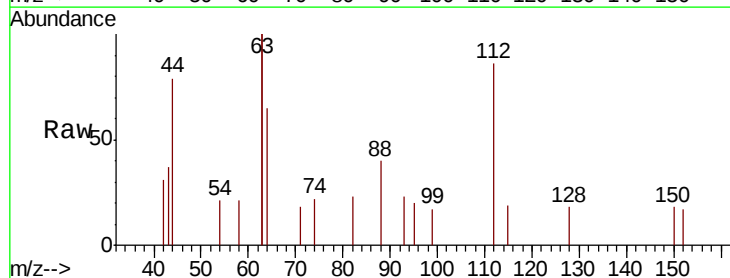
Tot Ion: 42 Resp: 395
 Ion Ratio Lower Upper
 42 100
 74 79.7 57.0 85.4
 44 13.2 0.0 0.0#



#4

2-Fluorophenol
 Concen: 0.329 ng
 RT: 5.40 min Scan# 220
 Delta R.T. 0.01 min
 Lab File: BE098888.D
 Acq: 12 Mar 2019 8:24

Tgt Ion: 112 Resp: 867
 Ion Ratio Lower Upper
 112 100
 64 80.7 57.9 86.9
 63 164.0 158.3 237.5





#5

Phenol-d6

Concen: 0.369 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampled :

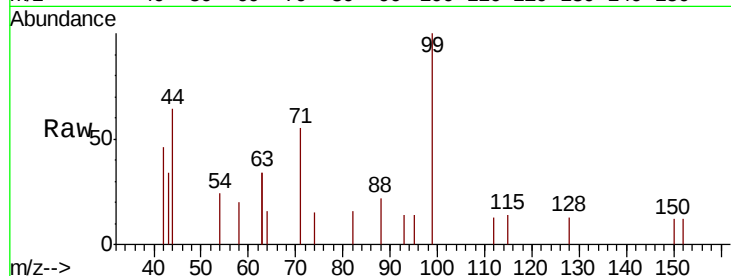
Tot Ion: 99 Resp: 1374

Ion Ratio Lower Upper

99 100

42 30.3 24.2 36.2

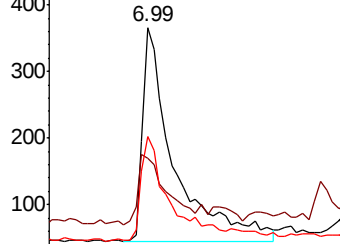
71 44.3 35.7 53.5



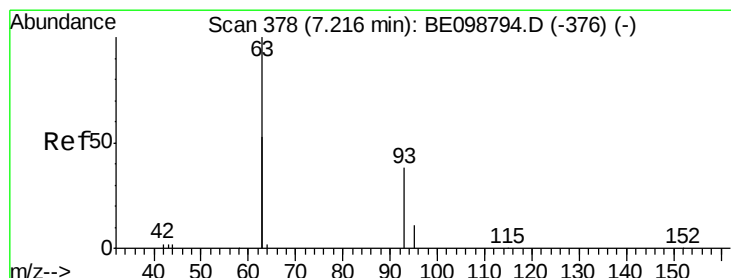
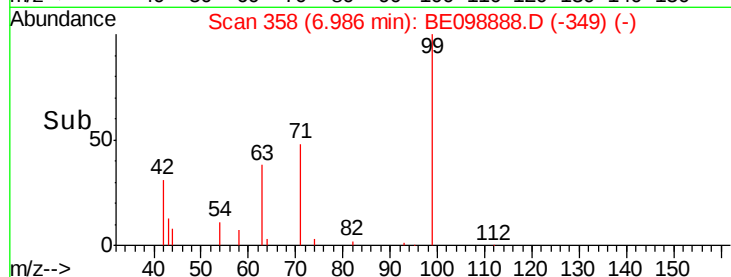
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 6.80 7.00 7.20



#6

bis(2-Chloroethyl)ether

Concen: 0.321 ng

RT: 7.23 min Scan# 379

Delta R.T. 0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

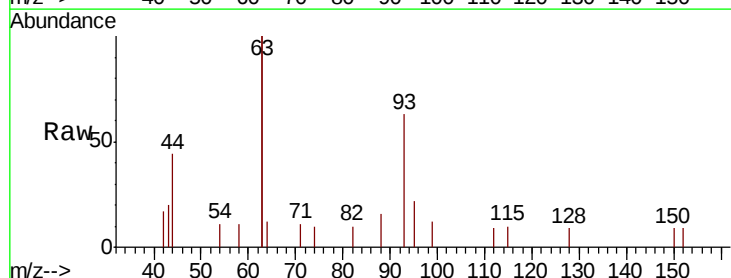
Tgt Ion: 93 Resp: 923

Ion Ratio Lower Upper

93 100

63 334.8 247.5 371.3

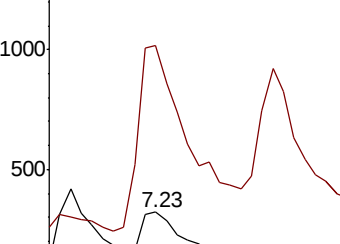
95 32.4 21.8 32.8



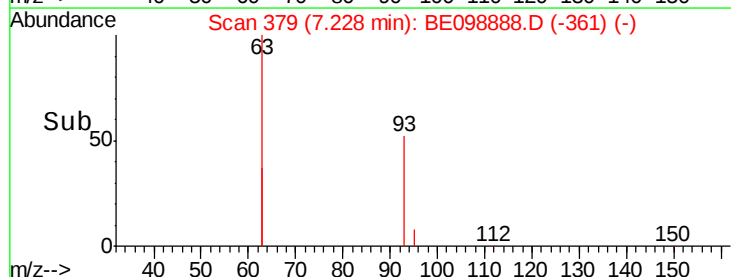
Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time--> 7.20 7.30 7.40





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. 0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 3839

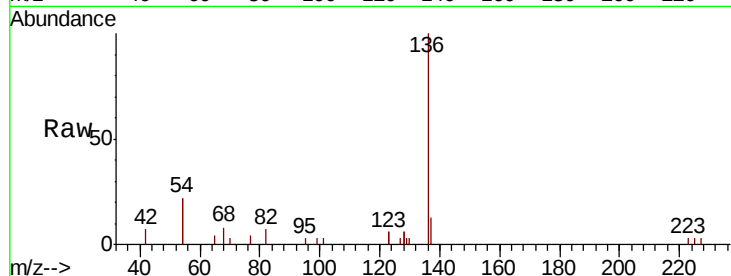
Ion Ratio Lower Upper

136 100

137 13.5 11.4 17.0

54 44.1 39.3 58.9

68 7.9 6.7 10.1

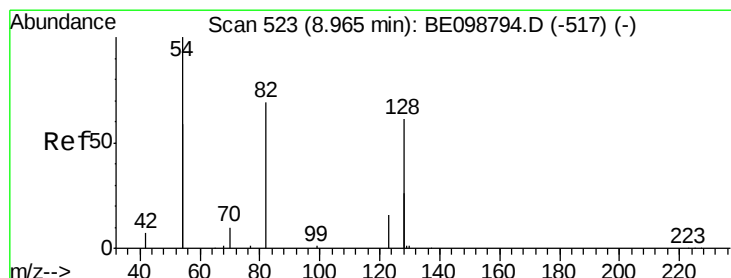
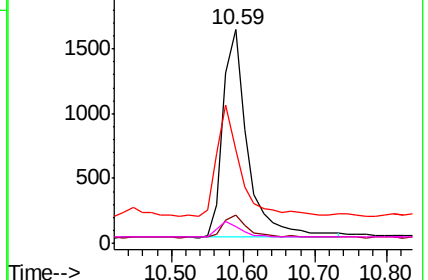
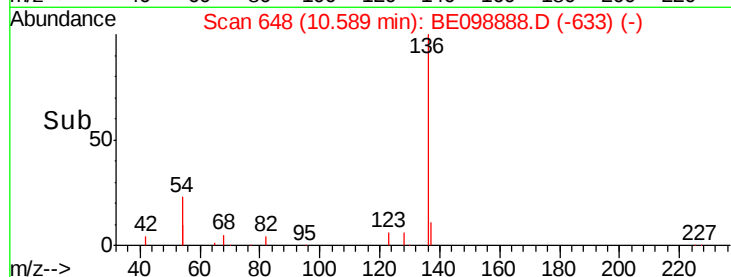


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.336 ng

RT: 8.97 min Scan# 523

Delta R.T. 0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

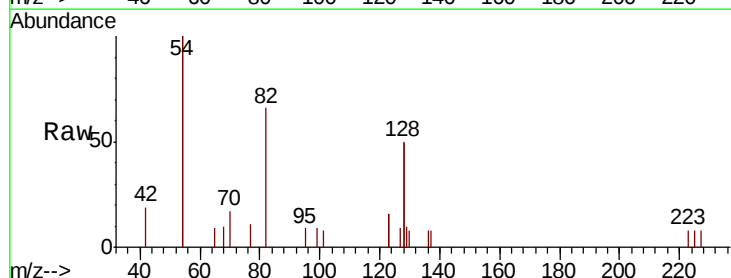
Tgt Ion: 82 Resp: 1352

Ion Ratio Lower Upper

82 100

128 150.9 123.8 185.8

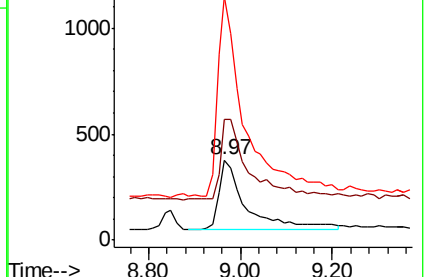
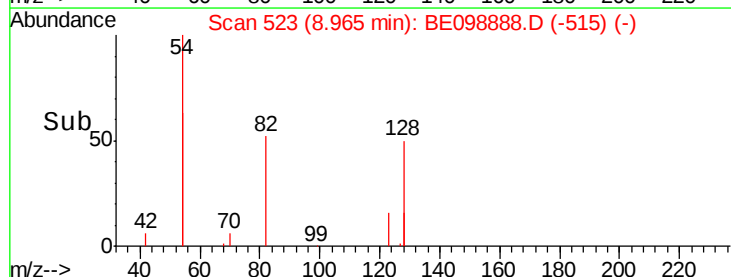
54 303.4 203.4 305.2

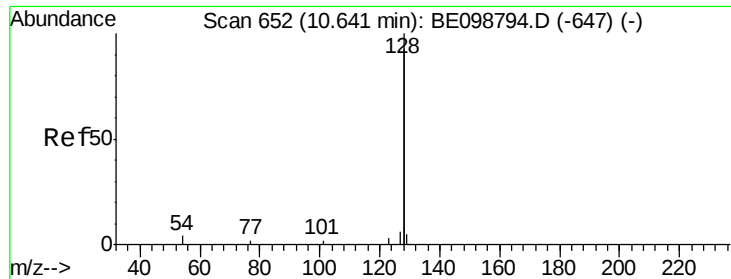


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.399 ng

RT: 10.63 min Scan# 651

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

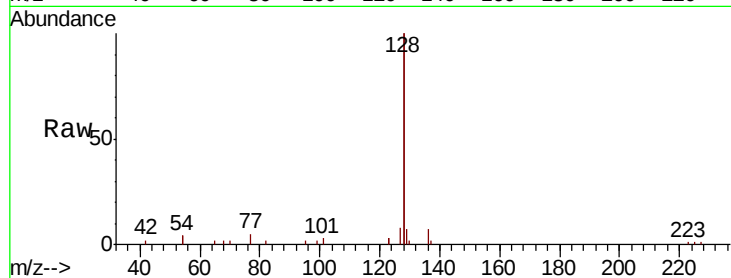
Tot Ion:128 Resp: 17539

Ion Ratio Lower Upper

128 100

129 3.4 2.6 4.0

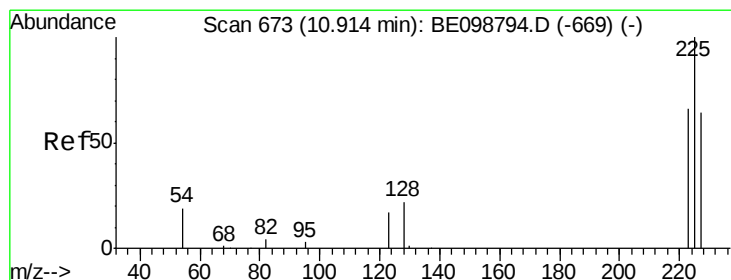
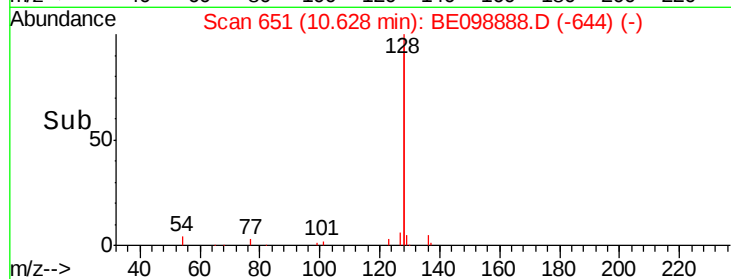
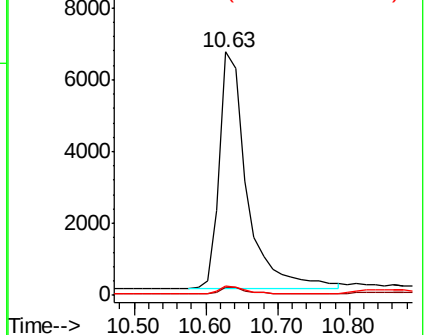
127 3.9 3.1 4.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.381 ng

RT: 10.91 min Scan# 673

Delta R.T. 0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

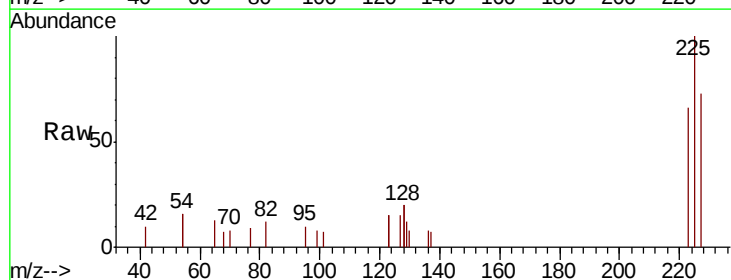
Tgt Ion:225 Resp: 1108

Ion Ratio Lower Upper

225 100

223 64.4 51.1 76.7

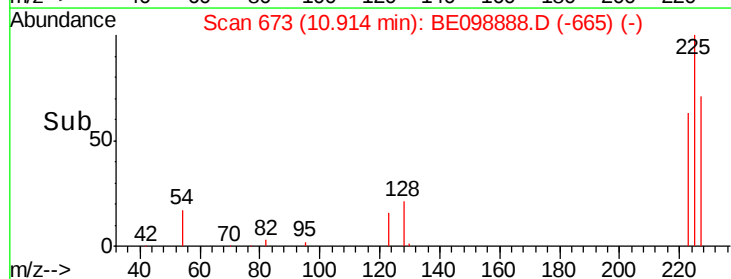
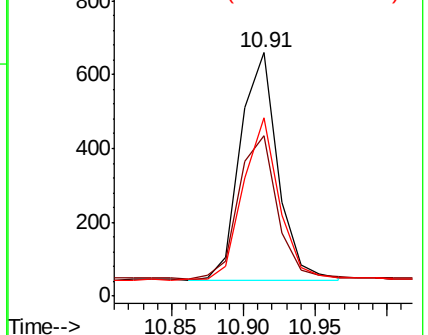
227 69.0 51.6 77.4



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

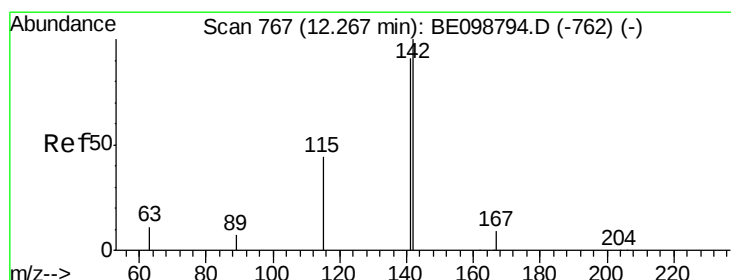
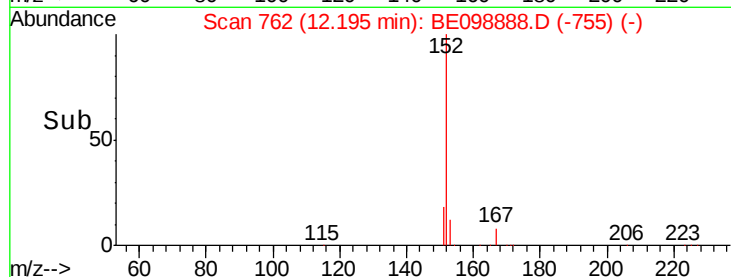
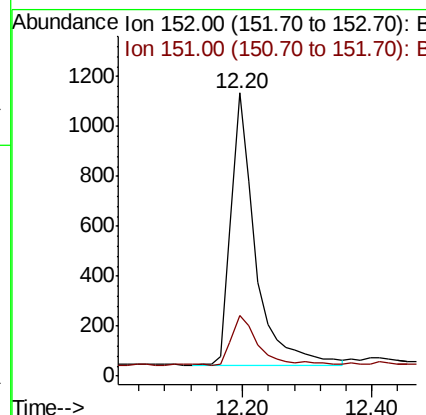
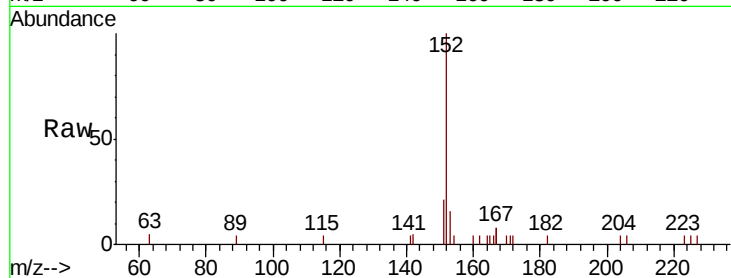




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.20 min Scan# 762
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

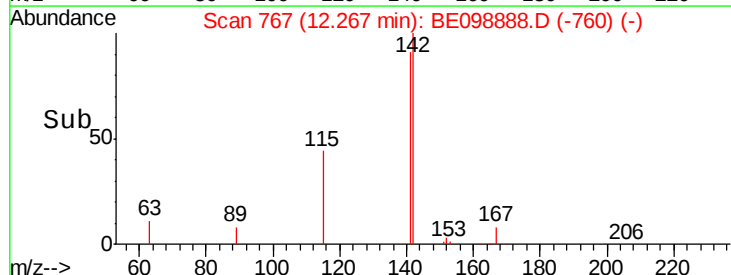
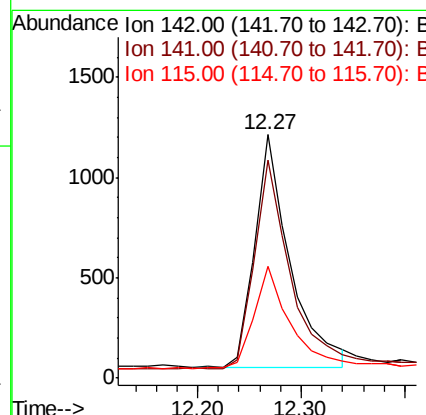
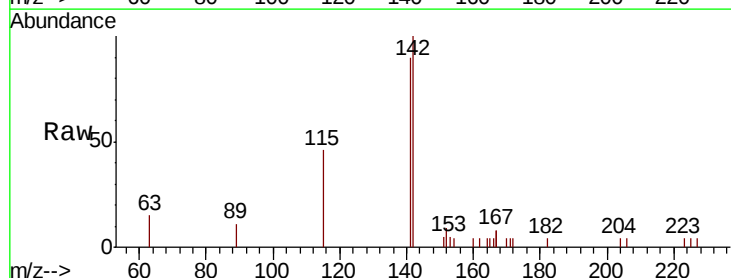
Instrument :
BNA_E
ClientSampleId :

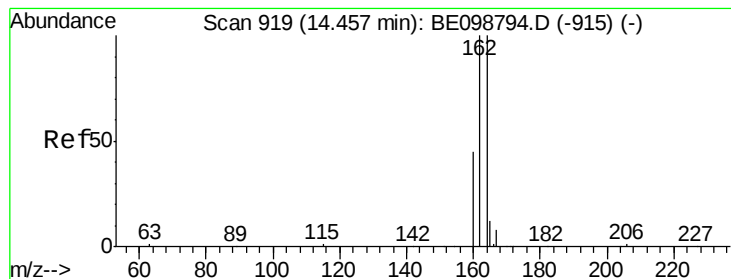
Tot Ion:152 Resp: 2829
Ion Ratio Lower Upper
152 100
151 19.7 16.5 24.7



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.27 min Scan# 767
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Tgt Ion:142 Resp: 2771
Ion Ratio Lower Upper
142 100
141 89.6 72.6 108.8
115 45.8 37.4 56.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

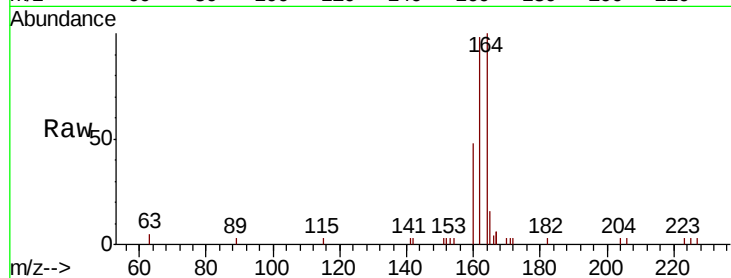
Tot Ion:164 Resp: 2578

Ion Ratio Lower Upper

164 100

162 98.1 80.2 120.2

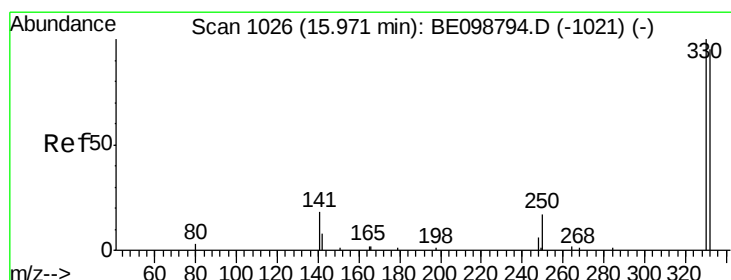
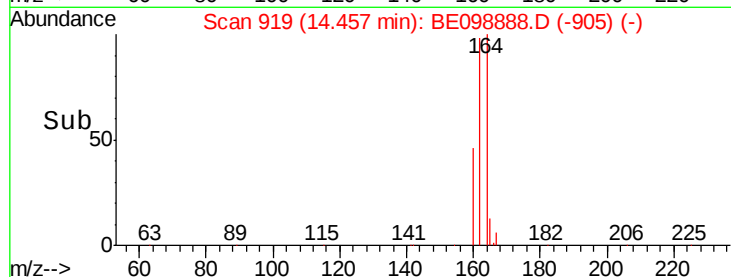
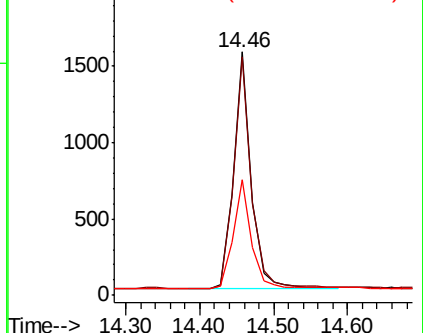
160 47.5 37.8 56.8



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: 0.329 ng

RT: 15.96 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

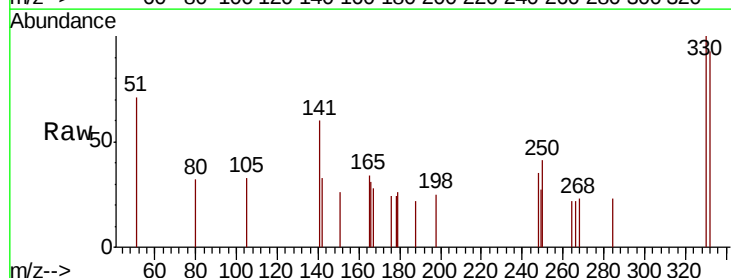
Tgt Ion:330 Resp: 428

Ion Ratio Lower Upper

330 100

332 96.0 77.6 116.4

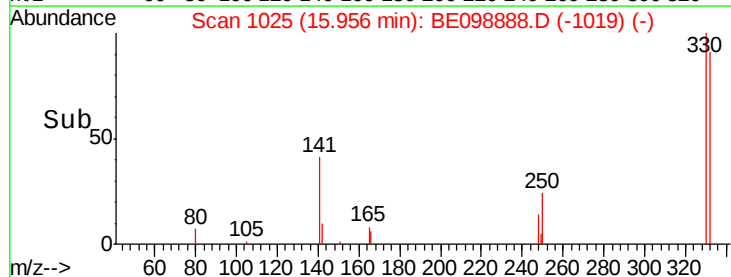
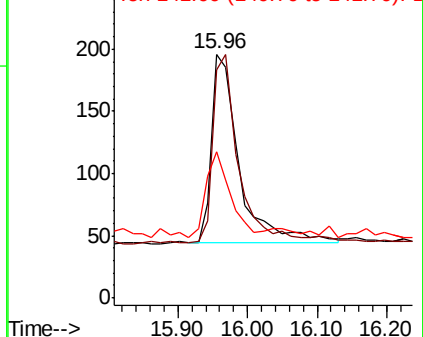
141 40.0 31.0 46.4



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

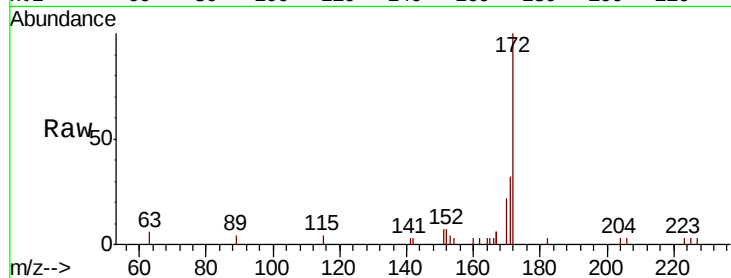




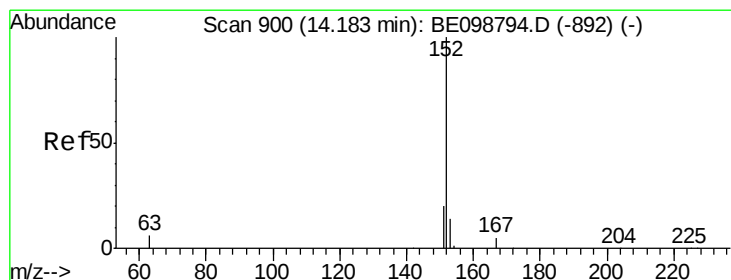
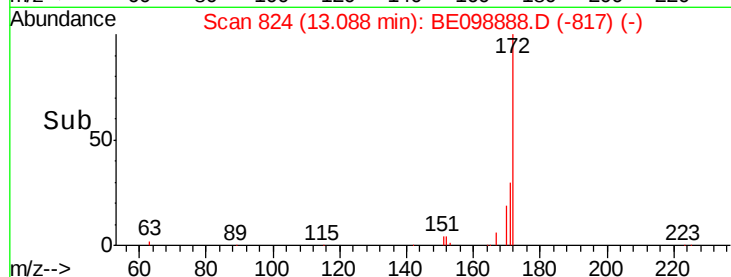
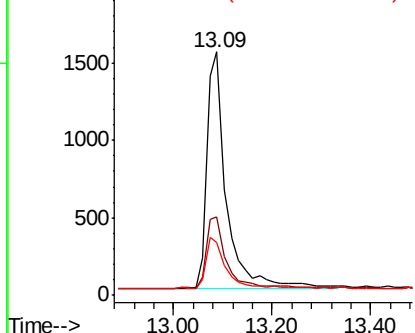
#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.09 min Scan# 824
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 4167
Ion Ratio Lower Upper
172 100
171 32.0 28.0 42.0
170 21.6 17.7 26.5

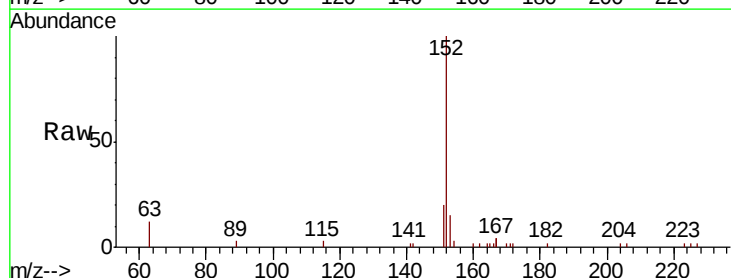


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

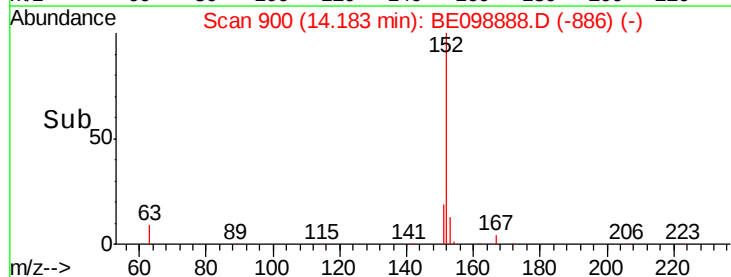
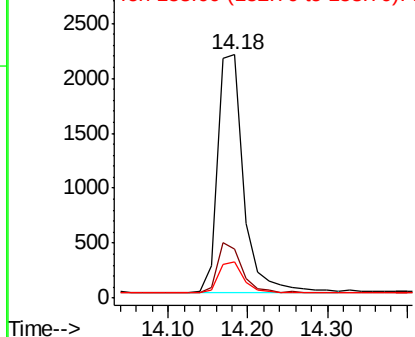


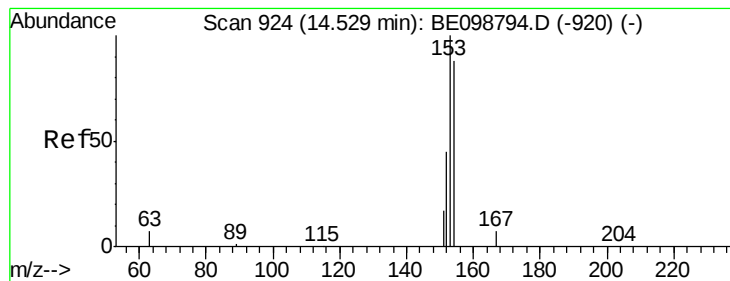
#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.18 min Scan# 900
Delta R.T. 0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Tgt Ion:152 Resp: 4902
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6
153 13.5 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.381 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

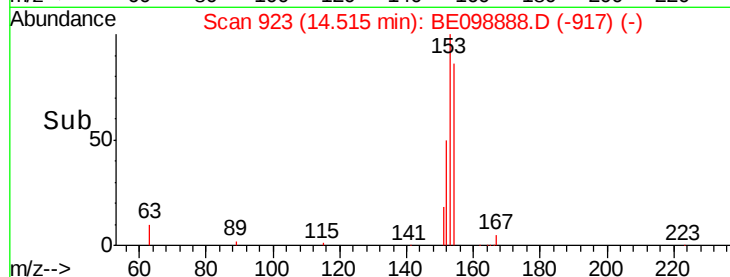
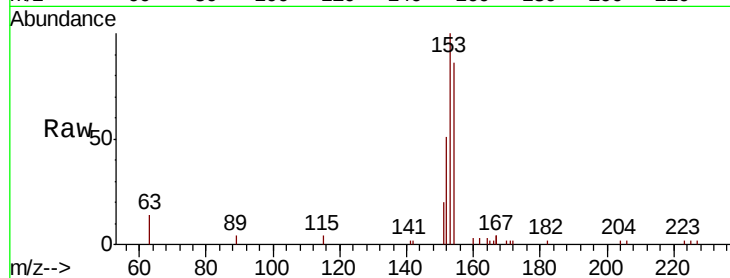
Tot Ion:154 Resp: 3000

Ion Ratio Lower Upper

154 100

153 116.5 94.2 141.4

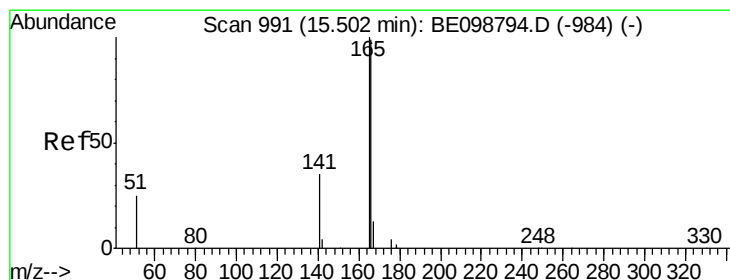
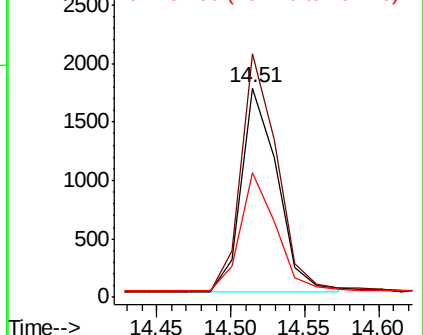
152 57.4 45.0 67.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.371 ng

RT: 15.50 min Scan# 991

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

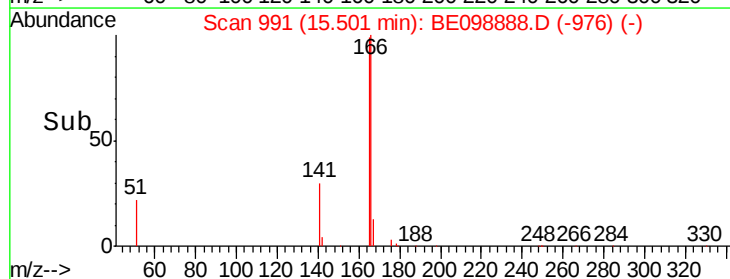
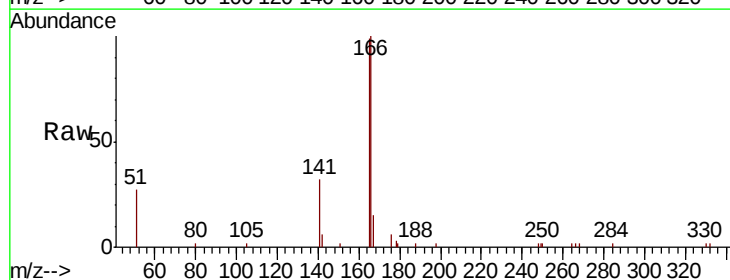
Tgt Ion:166 Resp: 4213

Ion Ratio Lower Upper

166 100

165 99.5 79.3 118.9

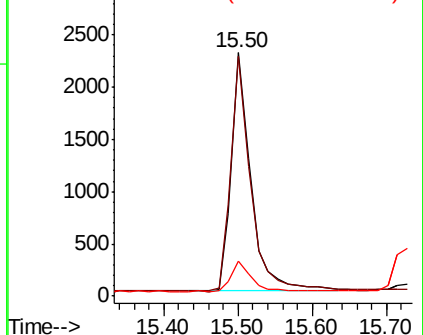
167 13.2 10.5 15.7



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: 17.21 min Scan# 1119

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

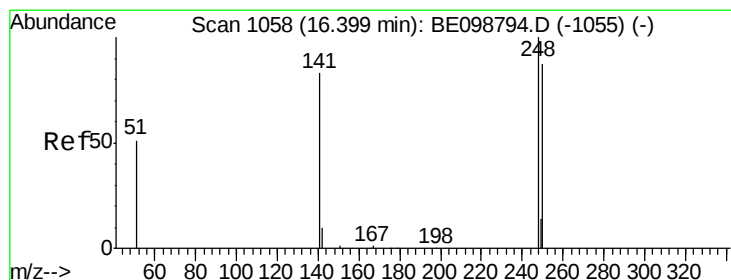
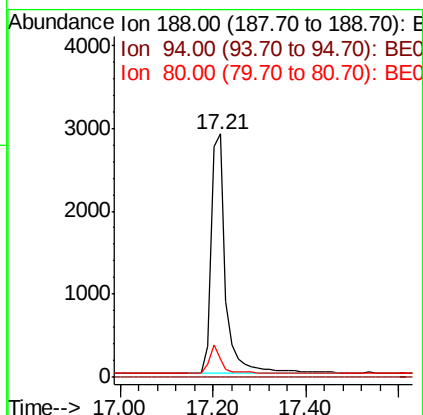
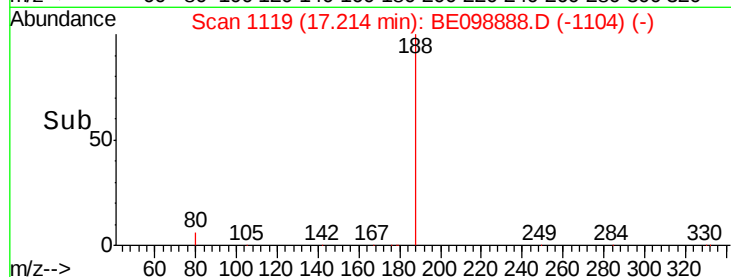
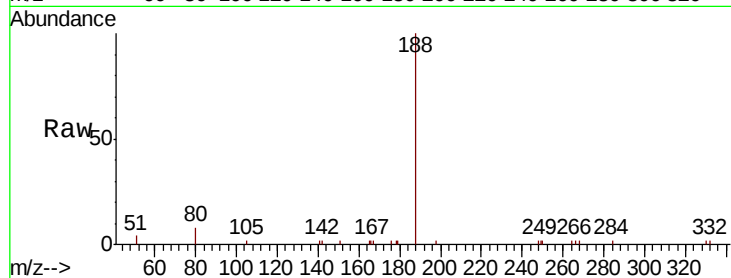
Tot Ion:188 Resp: 6432

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 6.3 9.5



#20

4-Bromophenyl-phenylether

Concen: 0.363 ng

RT: 16.40 min Scan# 1058

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

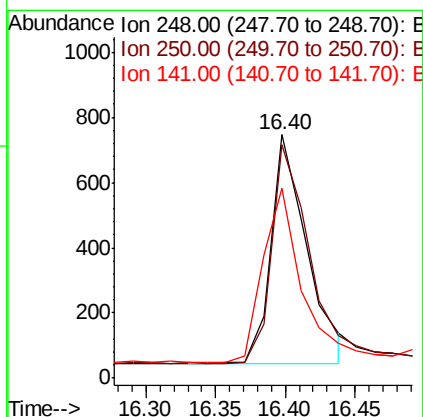
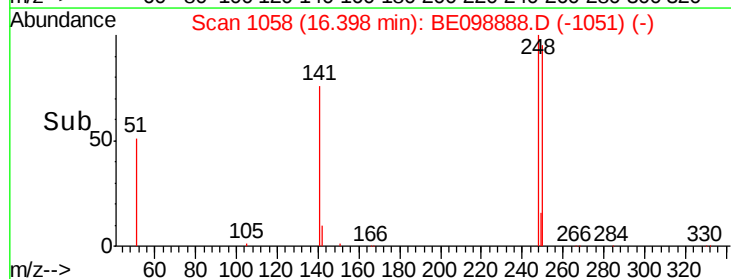
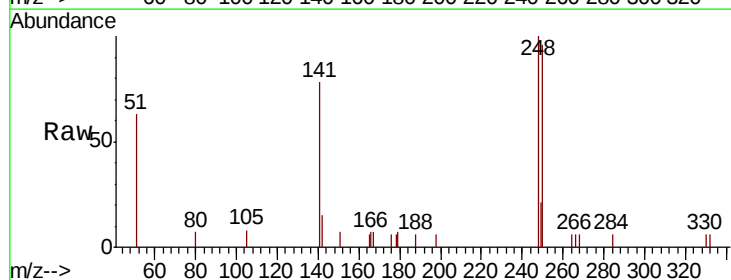
Tgt Ion:248 Resp: 1265

Ion Ratio Lower Upper

248 100

250 95.7 70.6 105.8

141 78.0 68.6 102.8

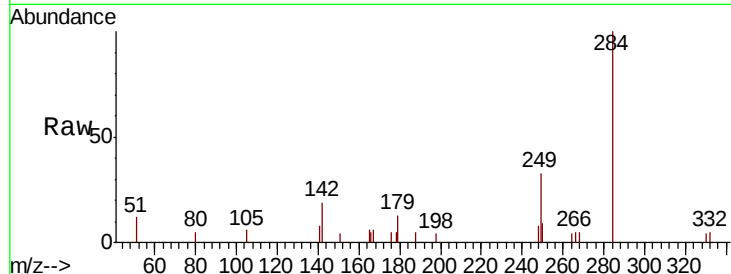




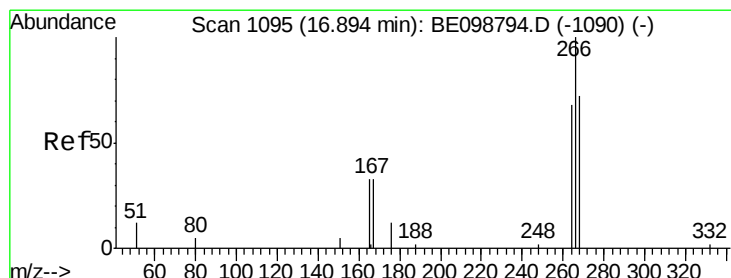
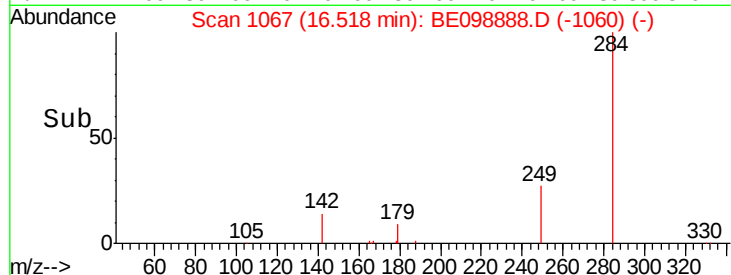
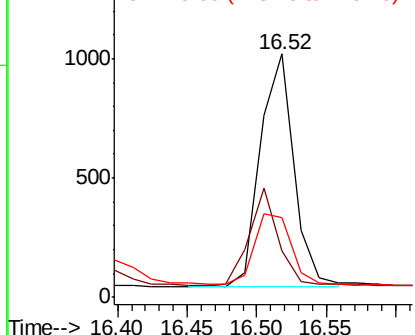
#21
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Instrument :
BNA_E
ClientSampled :

Tot Ion	Ratio	Lower	Upper
284	100		
142	36.1	28.7	43.1
249	31.8	29.6	44.4

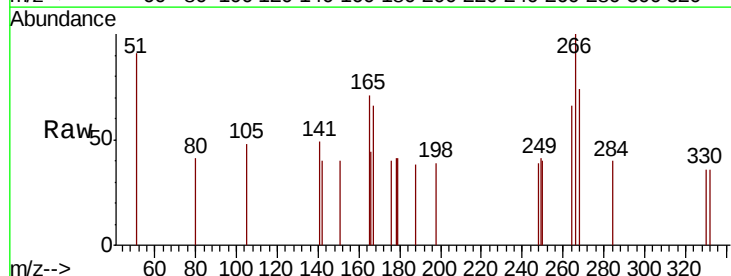


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

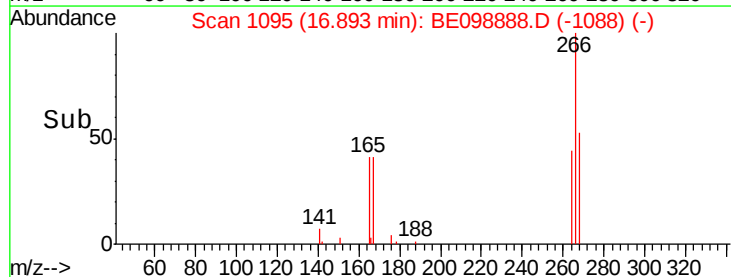
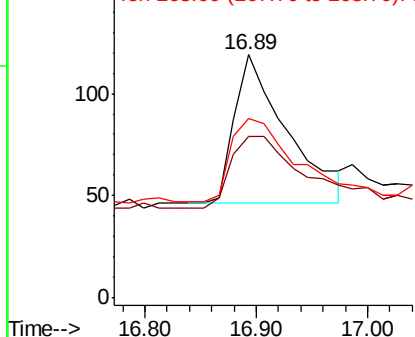


#22
Pentachlorophenol
Concen: 0.435 ng
RT: 16.89 min Scan# 1095
Delta R.T. -0.00 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	66.4	66.6	100.0#
268	73.9	69.8	104.8



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: 0.384 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

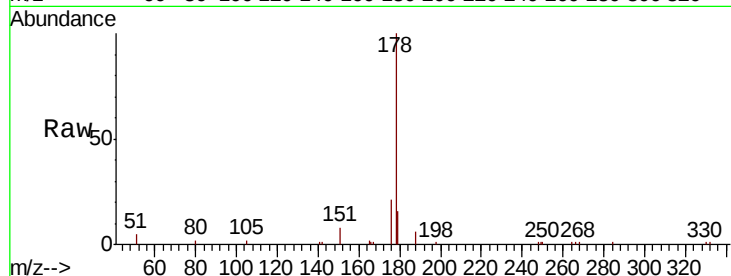
Tot Ion:178 Resp: 7025

Ion Ratio Lower Upper

178 100

176 19.5 16.0 24.0

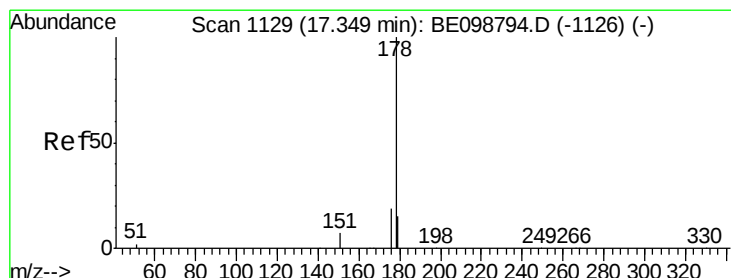
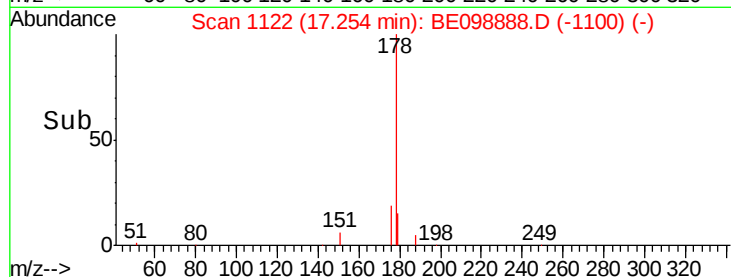
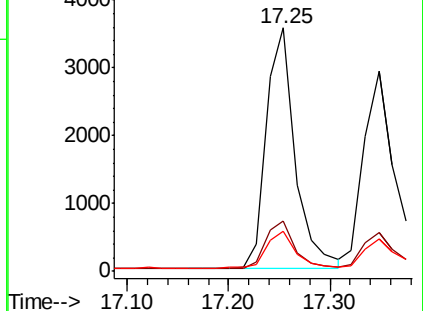
179 15.2 12.1 18.1



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: 0.376 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

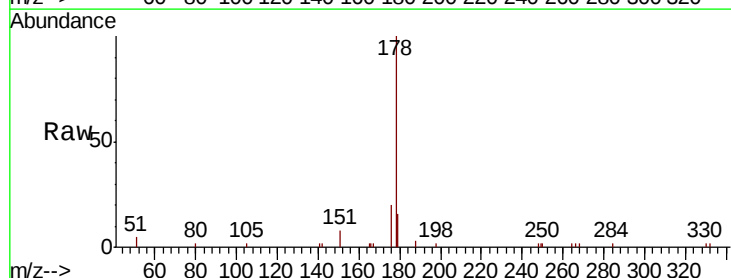
Tgt Ion:178 Resp: 5873

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

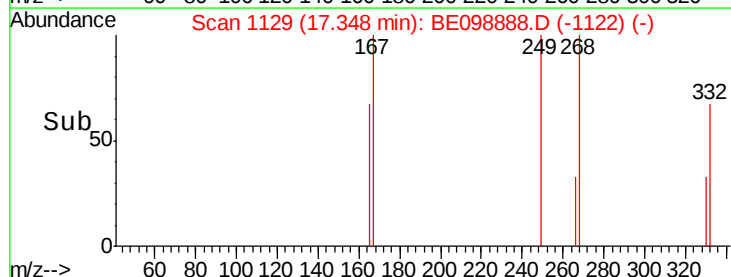
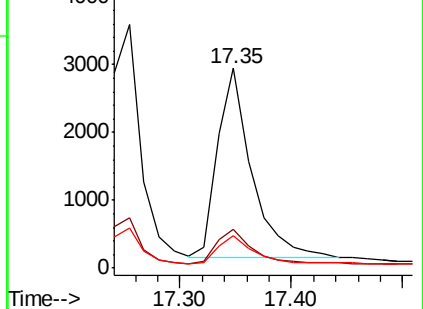
179 14.8 12.2 18.4



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: 0.361 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

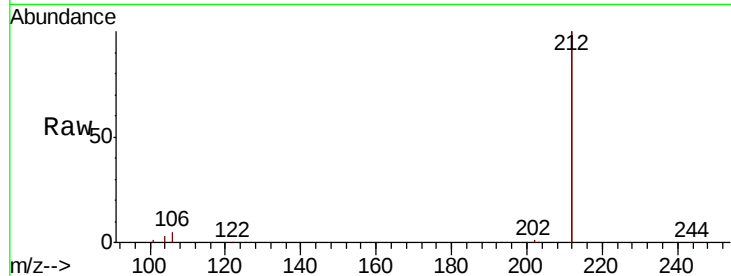
Tot Ion:212 Resp: 37081

Ion Ratio Lower Upper

212 100

106 2.3 1.8 2.8

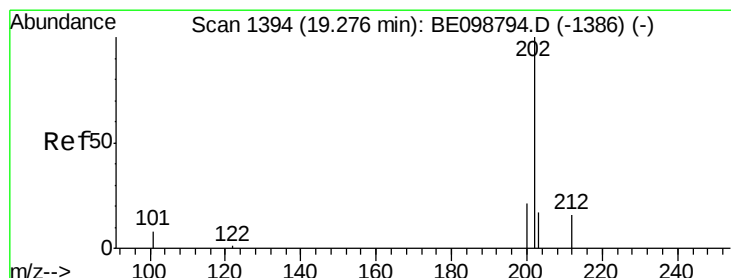
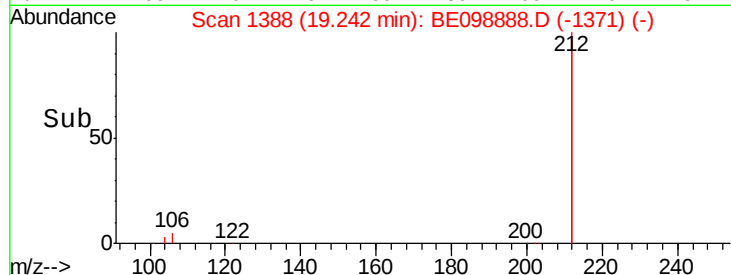
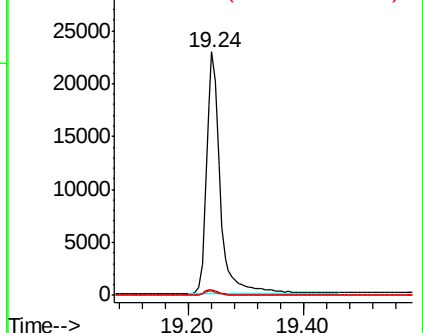
104 1.3 1.0 1.6



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: 0.360 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

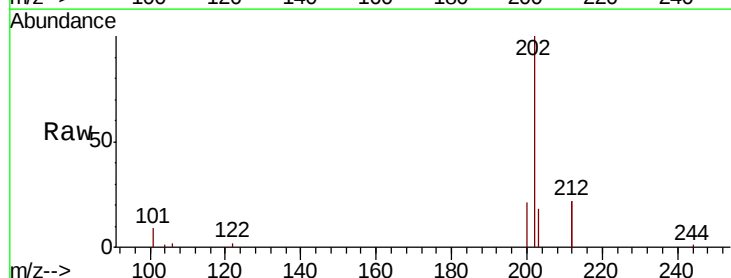
Tgt Ion:202 Resp: 9292

Ion Ratio Lower Upper

202 100

101 9.0 7.3 10.9

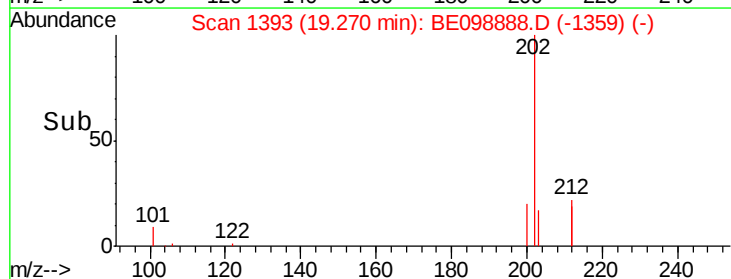
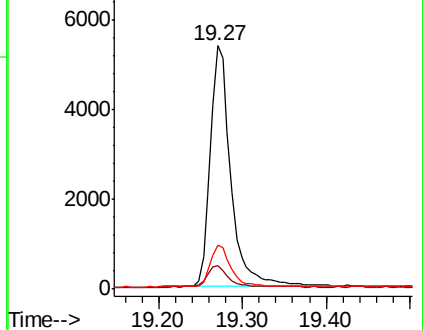
203 17.0 13.4 20.2



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

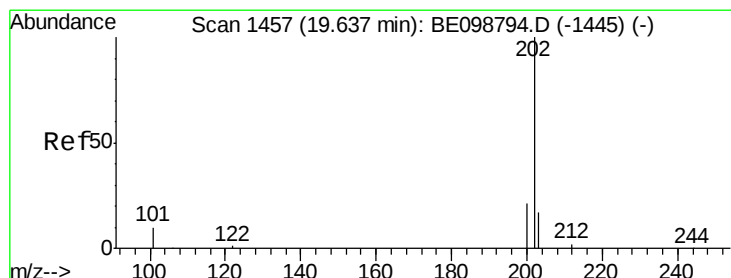
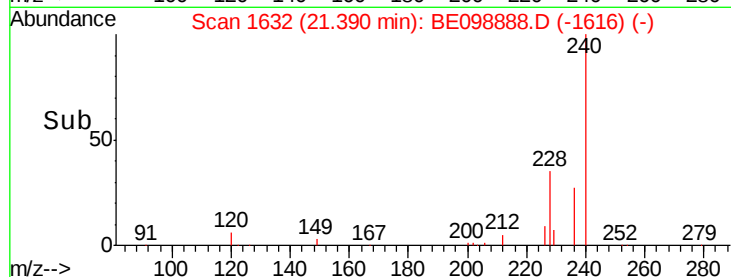
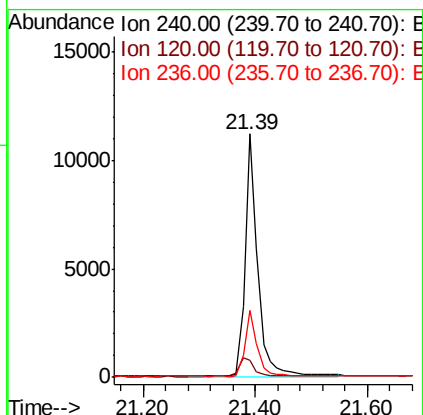
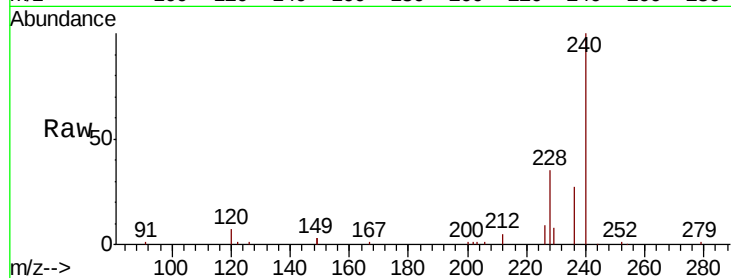




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.39 min Scan# 1632
 Delta R.T. -0.01 min
 Lab File: BE098888.D
 Acq: 12 Mar 2019 8:24

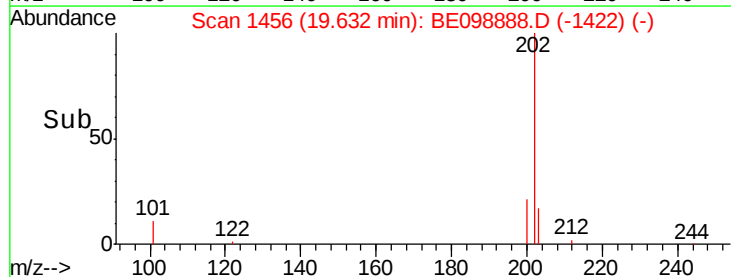
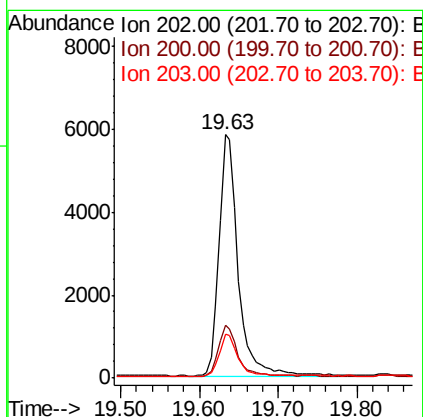
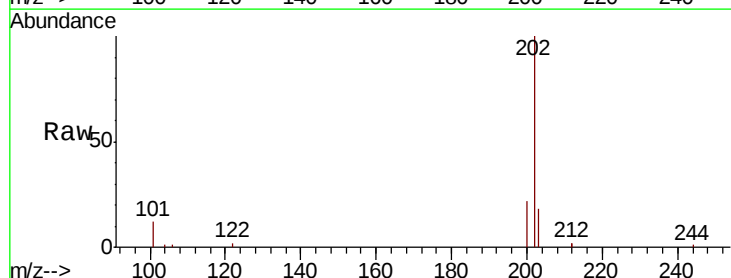
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:240 Resp: 17421
 Ion Ratio Lower Upper
 240 100
 120 6.8 5.0 7.4
 236 27.5 22.7 34.1



#28
 Pyrene
 Concen: 0.182 ng
 RT: 19.63 min Scan# 1456
 Delta R.T. -0.01 min
 Lab File: BE098888.D
 Acq: 12 Mar 2019 8:24

Tgt Ion:202 Resp: 9702
 Ion Ratio Lower Upper
 202 100
 200 20.8 17.0 25.6
 203 16.9 14.2 21.2





#29

Terphenyl-d14

Concen: 0.335 ng

RT: 19.84 min Scan# 1492

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

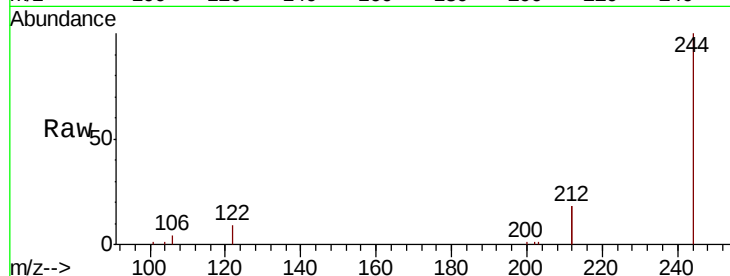
Tot Ion:244 Resp: 14164

Ion Ratio Lower Upper

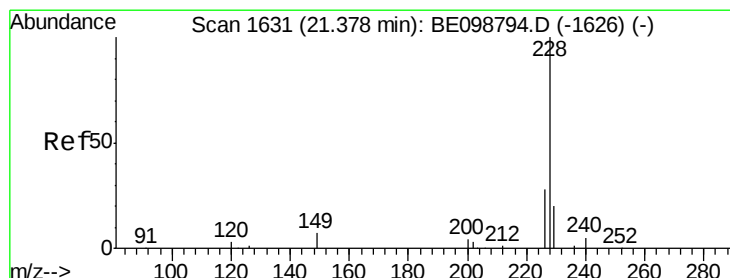
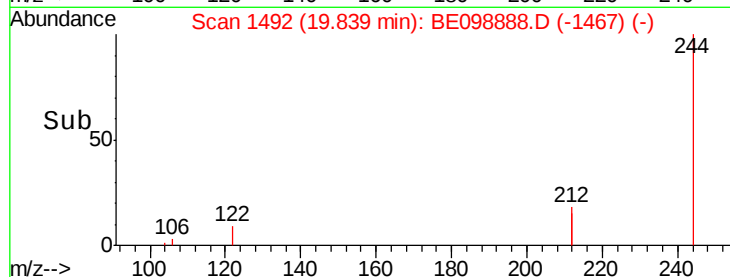
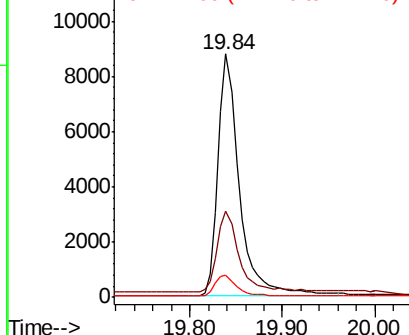
244 100

212 35.3 29.4 44.2

122 9.2 7.1 10.7



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: 0.306 ng

RT: 21.38 min Scan# 1631

Delta R.T. -0.00 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

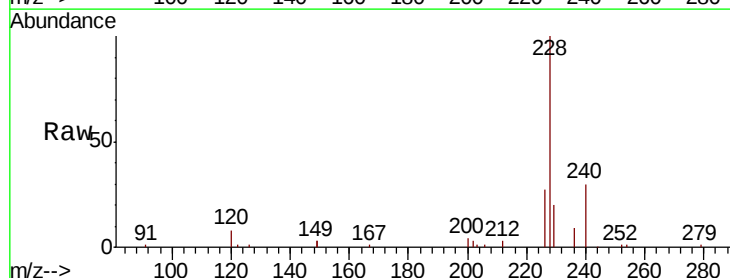
Tgt Ion:228 Resp: 16639

Ion Ratio Lower Upper

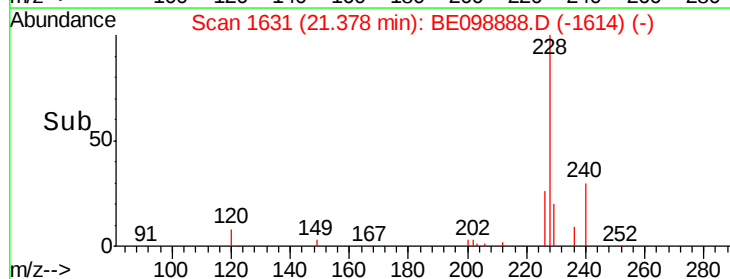
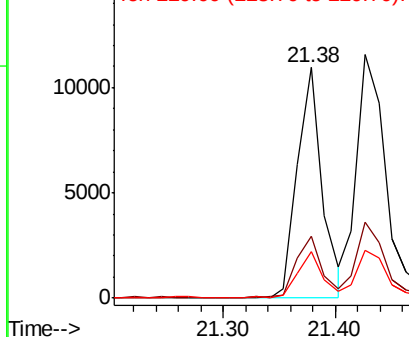
228 100

226 26.7 23.0 34.4

229 20.0 16.5 24.7



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: 0.343 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

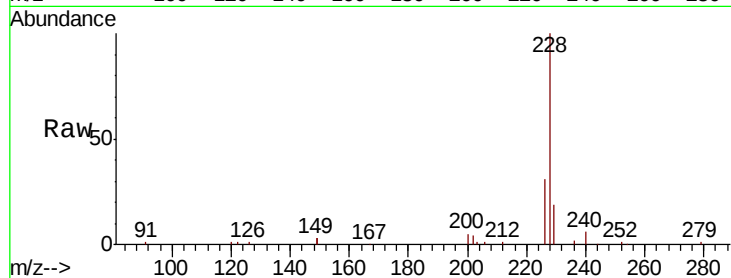
Tot Ion:228 Resp: 19943

Ion Ratio Lower Upper

228 100

226 31.0 23.7 35.5

229 19.4 16.1 24.1

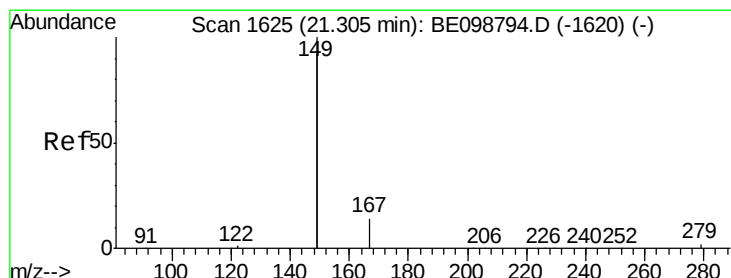
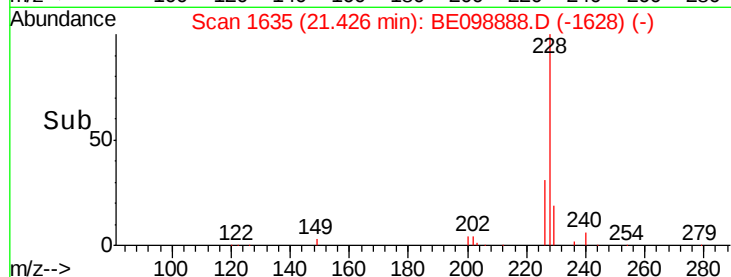
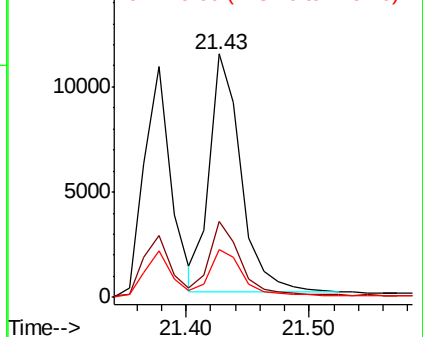


Abundance

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: 0.326 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

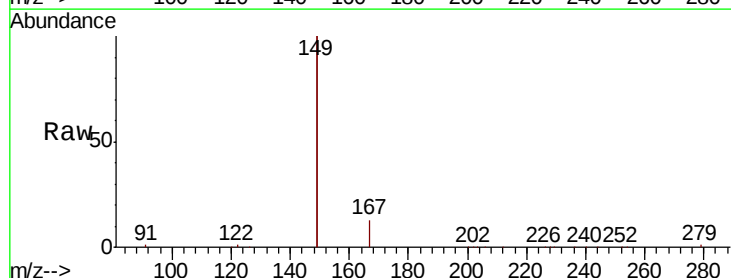
Tgt Ion:149 Resp: 37726

Ion Ratio Lower Upper

149 100

167 6.8 5.4 8.0

279 1.1 1.0 1.4

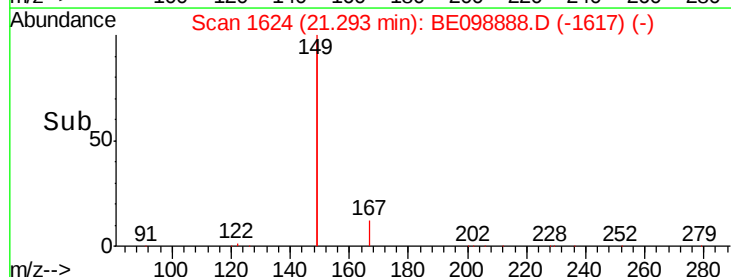
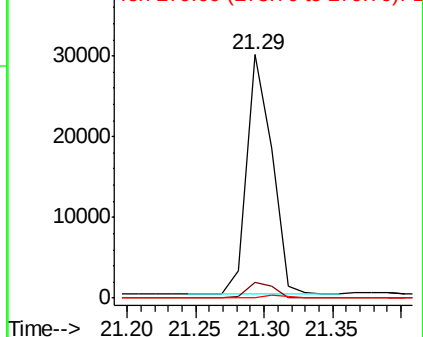


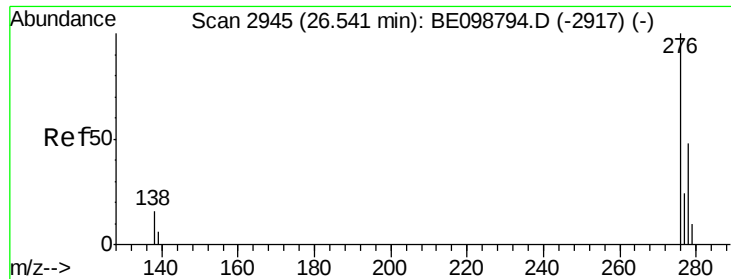
Abundance

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

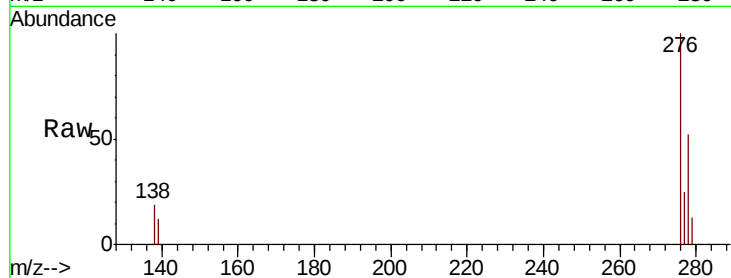




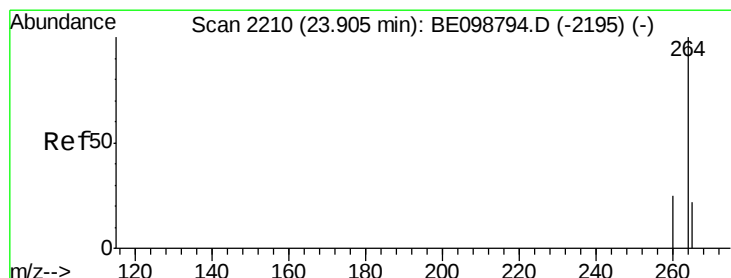
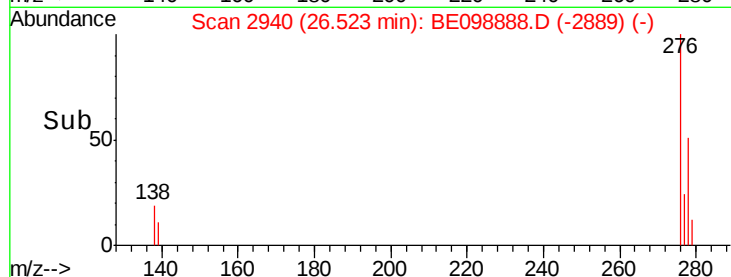
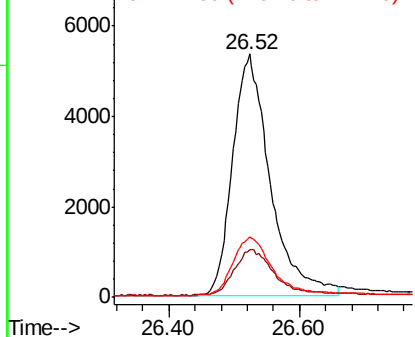
#33
Indeno(1,2,3-cd)pyrene
Concen: 0.347 ng
RT: 26.52 min Scan# 2940
Delta R.T. -0.02 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 21332
Ion Ratio Lower Upper
276 100
138 19.2 13.8 20.8
277 24.8 19.5 29.3

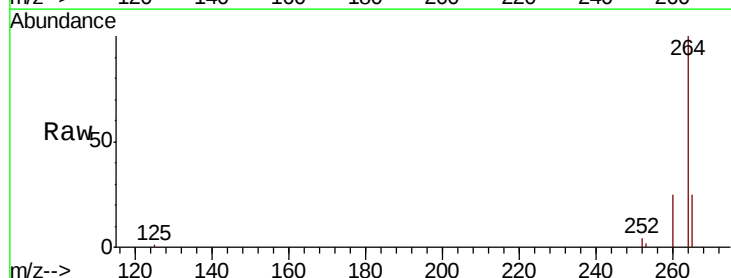


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

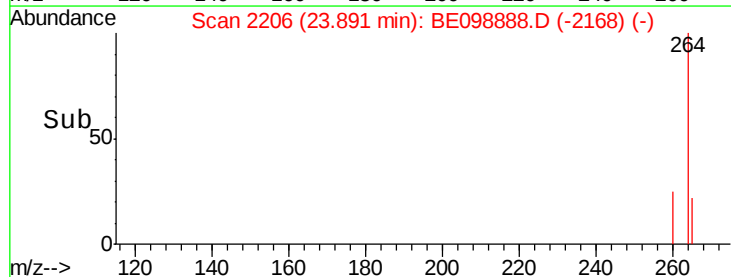
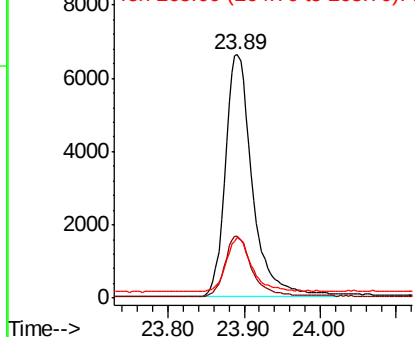


#34
Perylene-d12
Concen: 0.400 ng
RT: 23.89 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BE098888.D
Acq: 12 Mar 2019 8:24

Tgt Ion:264 Resp: 16224
Ion Ratio Lower Upper
264 100
260 25.4 21.2 31.8
265 24.8 24.6 36.8



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: 0.358 ng m

RT: 23.13 min Scan# 1991

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

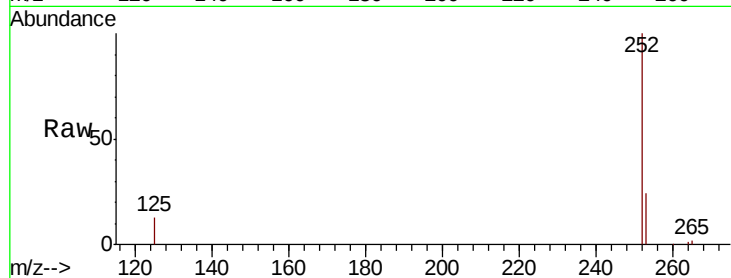
Tot Ion:252 Resp: 19089

Ion Ratio Lower Upper

252 100

253 24.0 18.2 27.2

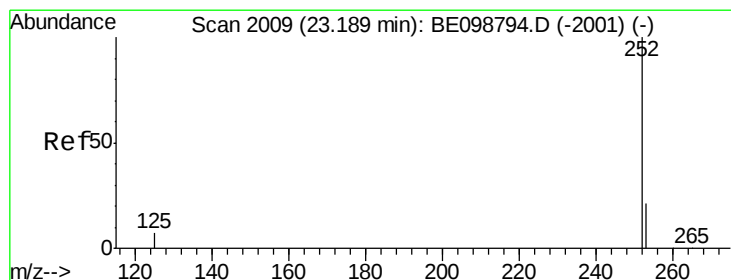
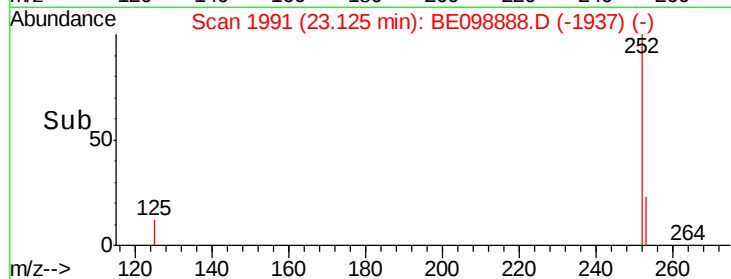
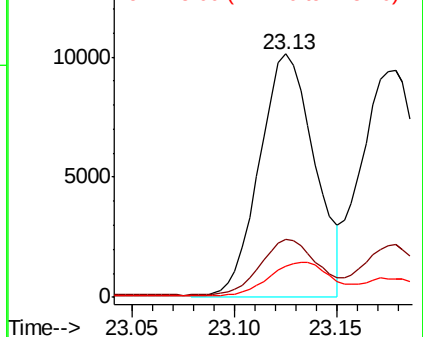
125 12.6 7.3 10.9#



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



#36

Benzo(k)fluoranthene

Concen: 0.378 ng

RT: 23.18 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

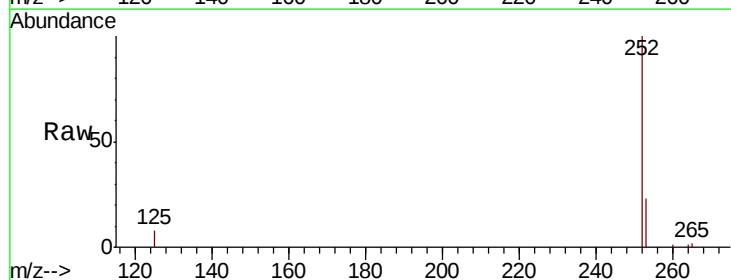
Tgt Ion:252 Resp: 21108

Ion Ratio Lower Upper

252 100

253 23.1 19.3 28.9

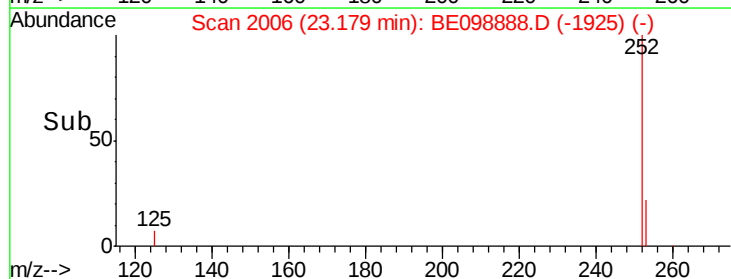
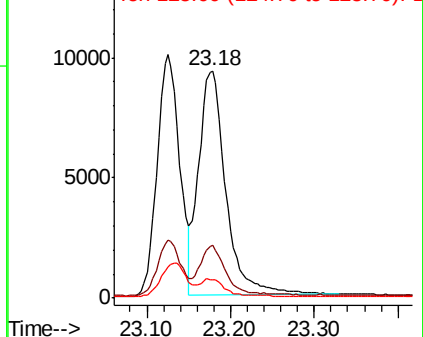
125 8.0 7.5 11.3



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: 0.339 ng

RT: 23.78 min Scan# 2174

Delta R.T. -0.02 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

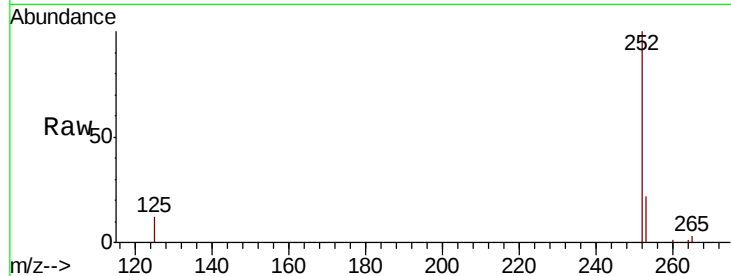
Tot Ion:252 Resp: 17317

Ion Ratio Lower Upper

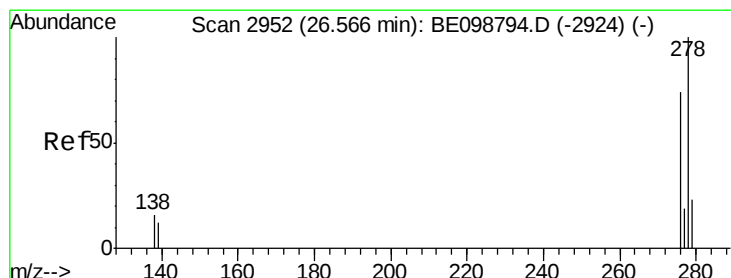
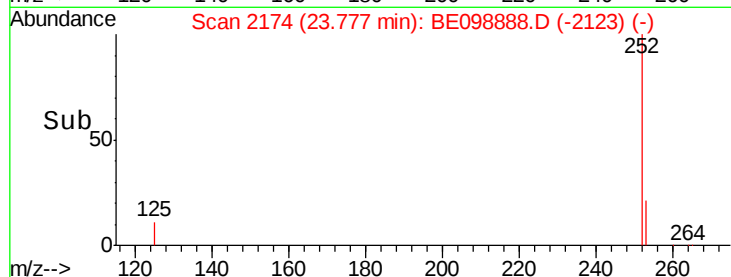
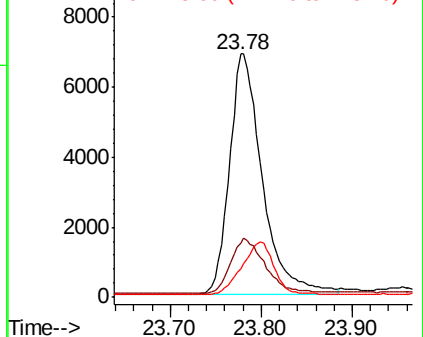
252 100

253 22.1 19.9 29.9

125 11.6 9.0 13.4



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: 0.363 ng

RT: 26.54 min Scan# 2945

Delta R.T. -0.02 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

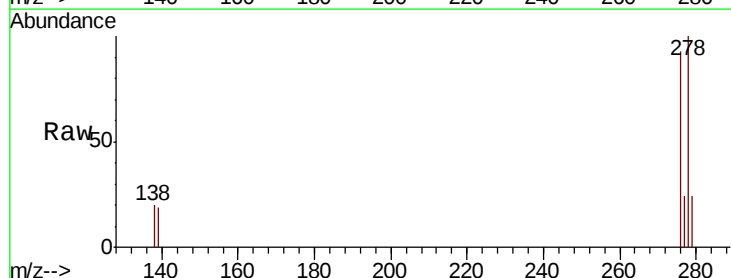
Tgt Ion:278 Resp: 17576

Ion Ratio Lower Upper

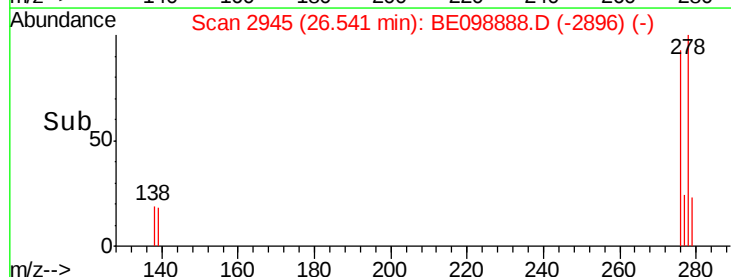
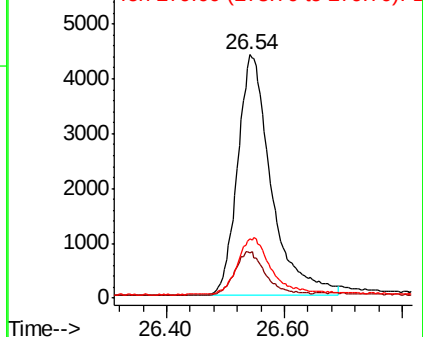
278 100

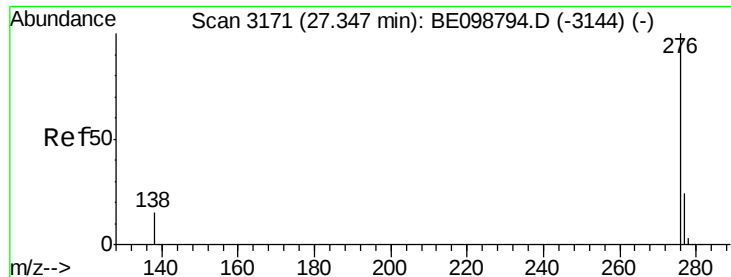
139 18.7 11.8 17.6#

279 24.4 21.1 31.7



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(a,h,i)perylene

Concen: 0.360 ng

RT: 27.33 min Scan# 3165

Delta R.T. -0.02 min

Lab File: BE098888.D

Acq: 12 Mar 2019 8:24

Instrument :

BNA_E

ClientSampleId :

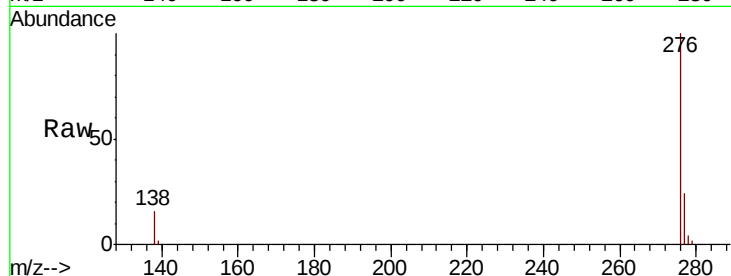
Tot Ion: 276 Resp: 18221

Ion Ratio Lower Upper

276 100

277 23.8 20.4 30.6

138 16.4 13.6 20.4



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

