

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100365.D
 Acq On : 4 Jul 2019 14:05
 Operator : JU/SJ
 Sample : K3558-10
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 05 01:15:03 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 14:06:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	663	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	2392	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1909	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5733	0.40	ng	0.00
27) Chrysene-d12	21.24	240	7575	0.40	ng	0.00
34) Perylene-d12	23.67	264	9890	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	422	0.25	ng	0.00
5) Phenol-d6	6.83	99	477	0.21	ng	0.00
8) Nitrobenzene-d5	8.81	82	479	0.20	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	915	0.20	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	315	0.24	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	1479	0.20	ng	-0.02
25) Fluoranthene-d10	19.09	212	14180	0.17	ng	0.00
29) Terphenyl-d14	19.69	244	3122	0.20	ng	-0.01

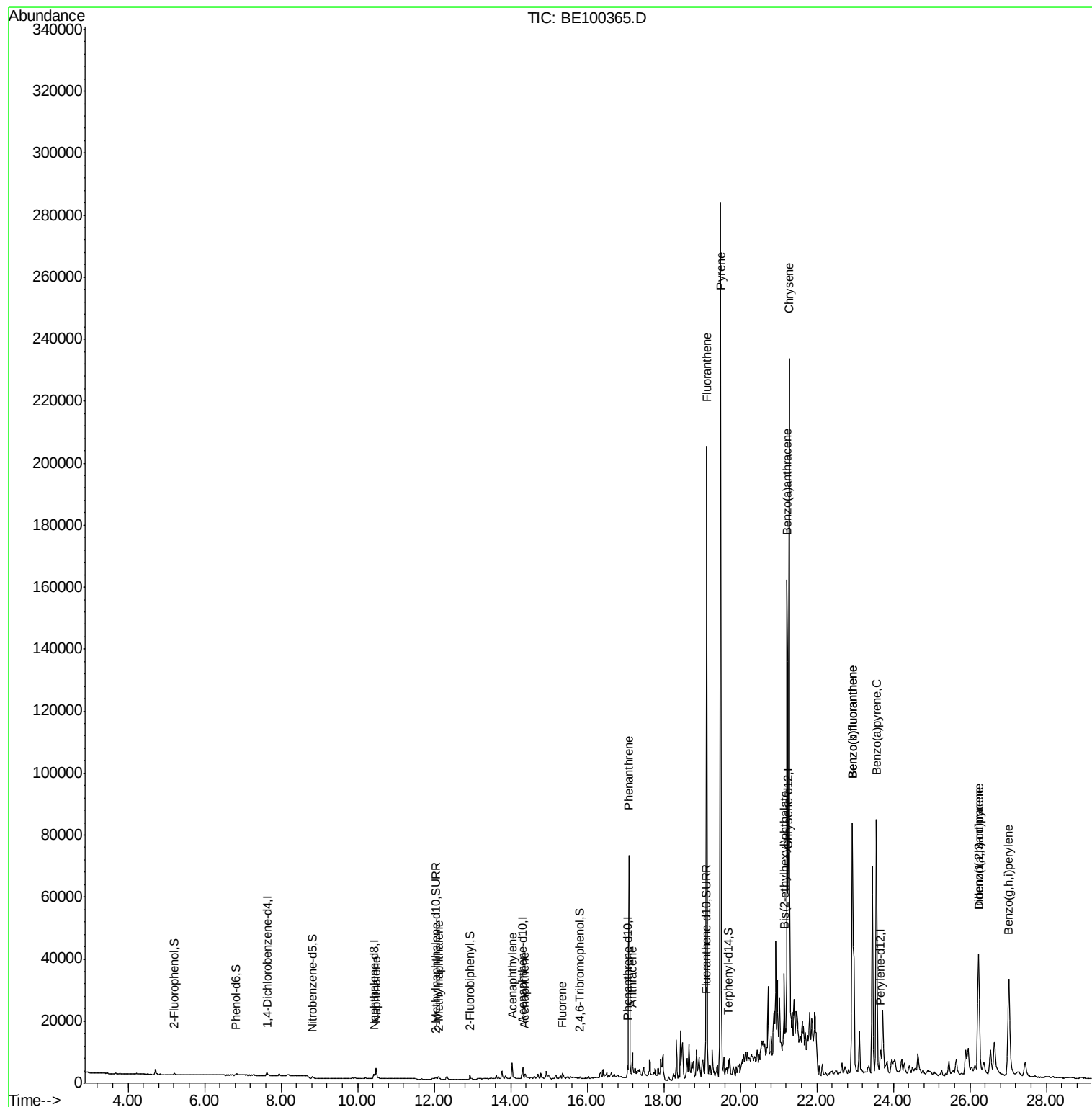
Target Compounds				Qvalue		
9) Naphthalene	10.48	128	7639	0.290	ng	99
12) 2-Methylnaphthalene	12.11	142	791	0.171	ng	95
16) Acenaphthylene	14.04	152	8140	0.889	ng	100
17) Acenaphthene	14.37	154	877	0.169	ng	94
18) Fluorene	15.35	166	1933	0.252	ng	# 80
23) Phenanthrene	17.09	178	74165	5.338	ng	99
24) Anthracene	17.19	178	7987	0.638	ng	98
26) Fluoranthene	19.12	202	183342	8.284	ng	98
28) Pyrene	19.48	202	276969	13.810	ng	# 96
30) Benzo(a)anthracene	21.22	228	144986	5.821	ng	96
31) Chrysene	21.28	228	198670	7.944	ng	98
32) Bis(2-ethylhexyl)phthalate	21.15	149	17744	0.446	ng	97
33) Indeno(1,2,3-cd)pyrene	26.22	276	77926	2.356	ng	# 97
35) Benzo(b)fluoranthene	22.93	252	164062	6.119	ng	# 95
36) Benzo(k)fluoranthene	22.93	252	164062	5.481	ng	# 98
37) Benzo(a)pyrene	23.56	252	127826	4.756	ng	# 93
38) Dibenzo(a,h)anthracene	26.23	278	22272	0.794	ng	# 92
39) Benzo(a,h,i)perylene	27.02	276	90786	3.149	ng	98

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

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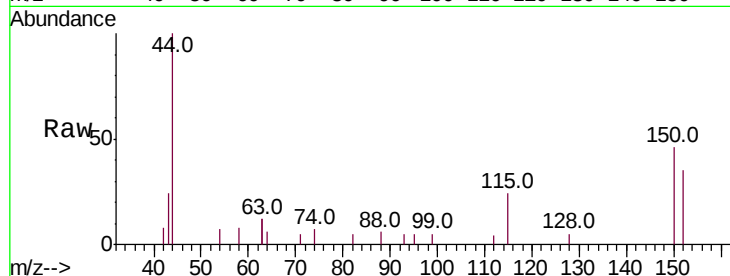


#1

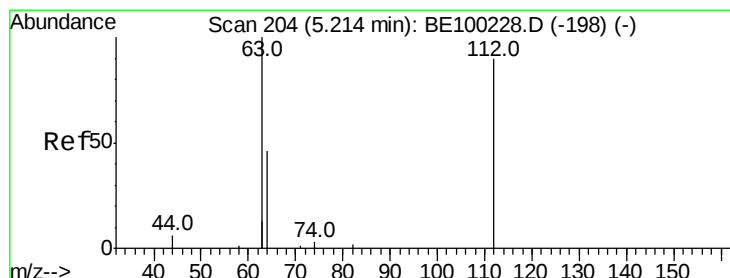
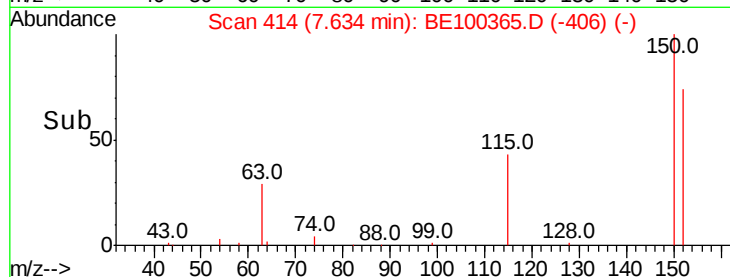
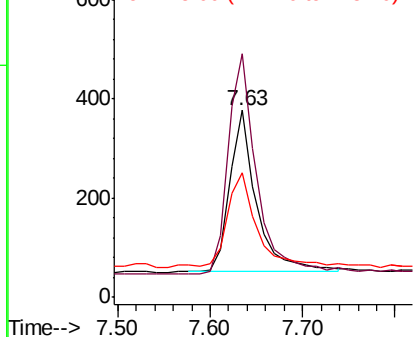
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 663
Ion Ratio Lower Upper
152 100
150 130.2 114.5 171.7
115 66.8 57.1 85.7



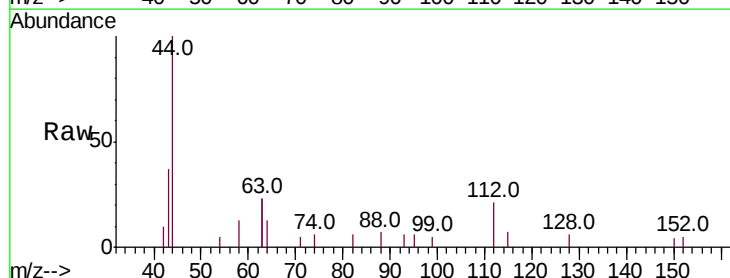
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



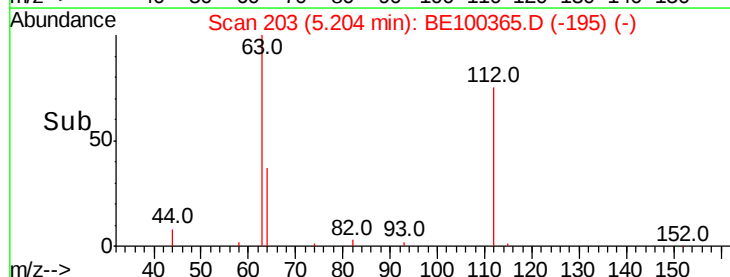
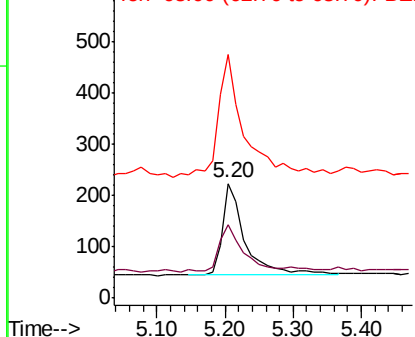
#4

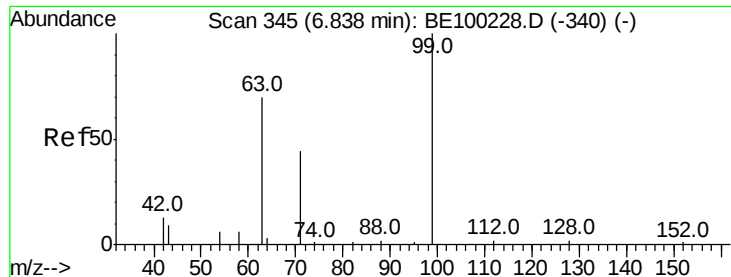
2-Fluorophenol
Concen: 0.250 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:112 Resp: 422
Ion Ratio Lower Upper
112 100
64 54.3 39.4 59.0
63 143.1 104.5 156.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.214 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

ClientSampled :

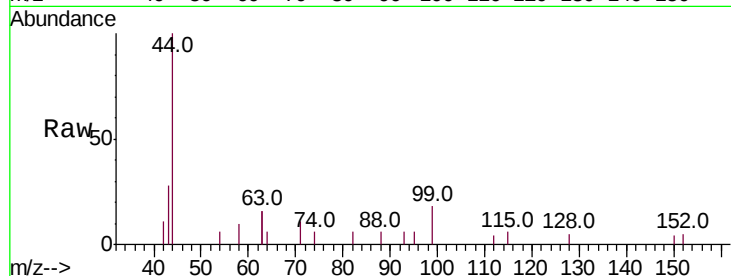
Tot Ion: 99 Resp: 477

Ion Ratio Lower Upper

99 100

42 32.3 11.2 16.8#

71 54.9 37.2 55.8



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1

250

200

150

100

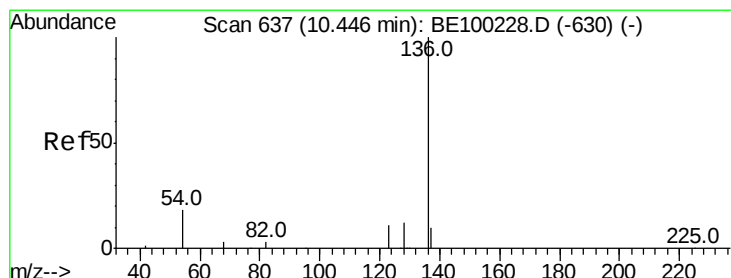
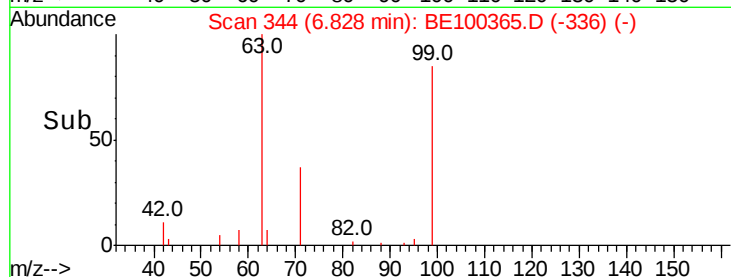
50

0

6.83

6.70 6.80 6.90 7.00

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Tgt Ion: 136 Resp: 2392

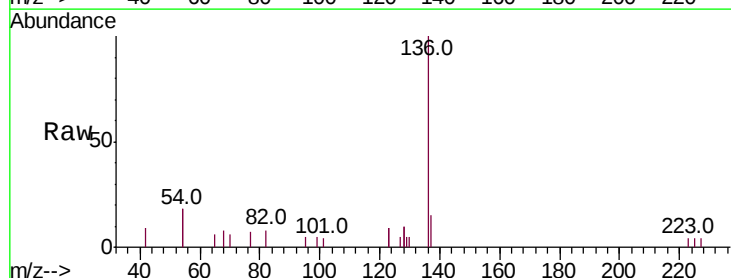
Ion Ratio Lower Upper

136 100

137 14.7 11.8 17.8

54 35.6 27.7 41.5

68 8.2 6.8 10.2



Abundance Ion 136.00 (135.70 to 136.70): BE1

Ion 137.00 (136.70 to 137.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1

1500

1000

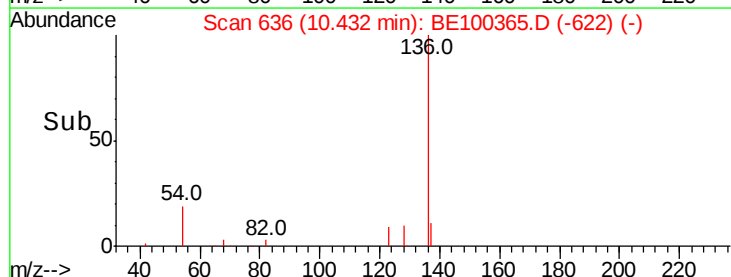
500

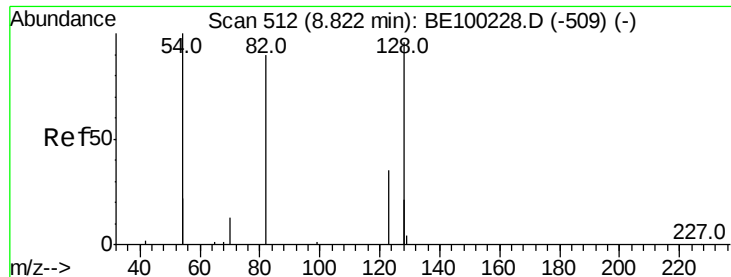
0

10.43

10.40 10.60

Time-->





#8

Nitrobenzene-d5

Concen: 0.202 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

ClientSampled :

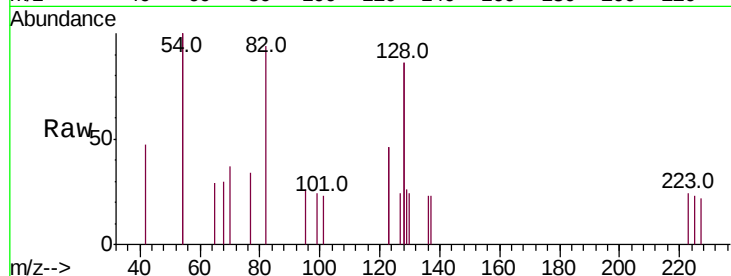
Tot Ion: 82 Resp: 479

Ion Ratio Lower Upper

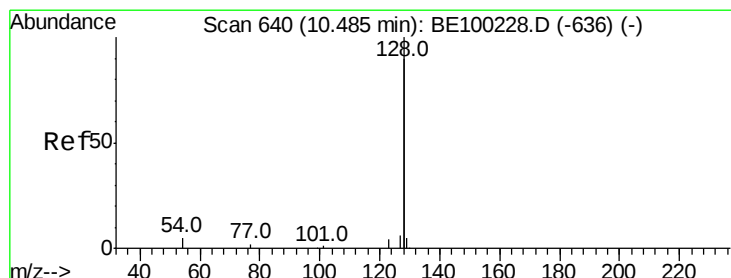
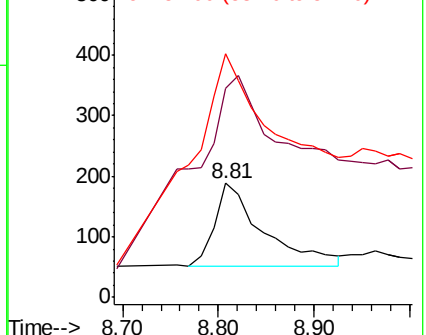
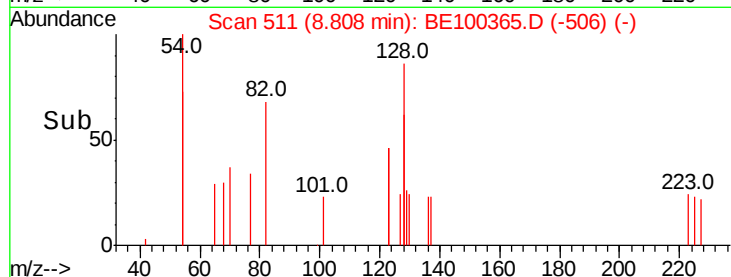
82 100

128 184.0 140.9 211.3

54 213.8 146.2 219.2



Abundance Ion 82.00 (81.70 to 82.70): BE1
Ion 128.00 (127.70 to 128.70): BE1
Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.290 ng

RT: 10.48 min Scan# 640

Delta R.T. -0.00 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

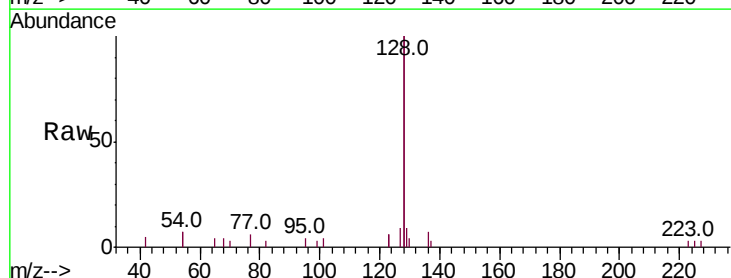
Tgt Ion: 128 Resp: 7639

Ion Ratio Lower Upper

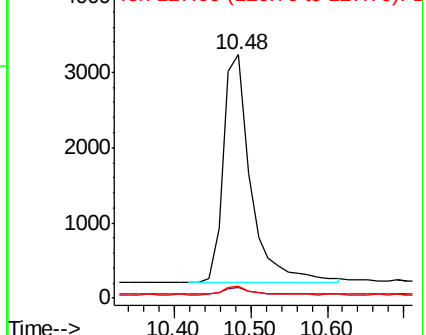
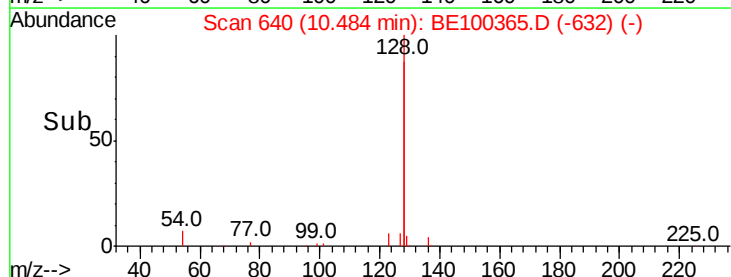
128 100

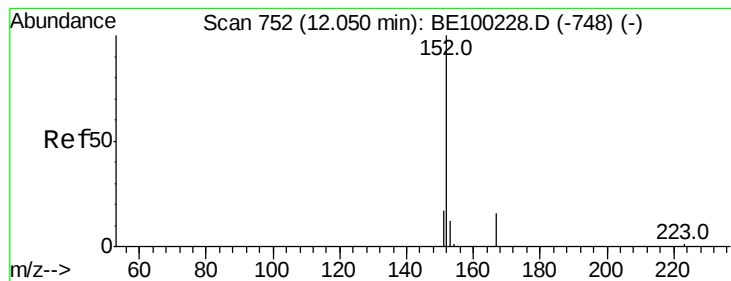
129 4.3 3.0 4.6

127 4.7 3.5 5.3



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





#11

2-Methylnaphthalene-d10

Concen: 0.203 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.02 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

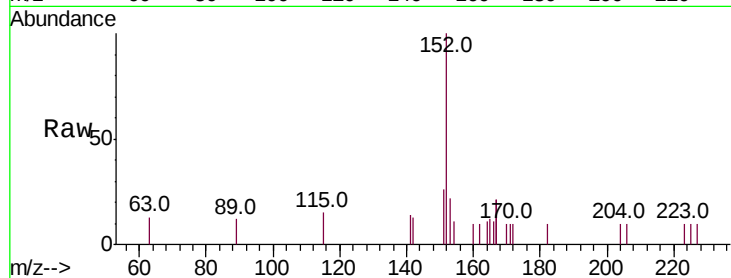
ClientSampled :

Tot Ion:152 Resp: 915

Ion Ratio Lower Upper

152 100

151 19.5 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.04

400

300

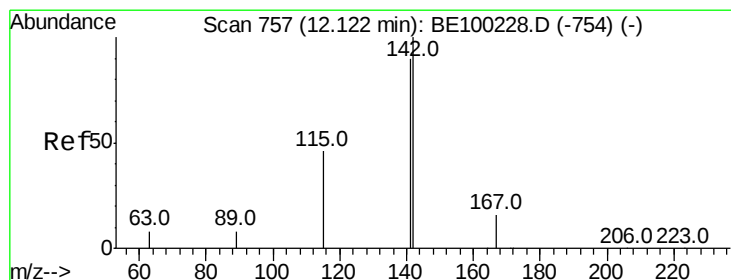
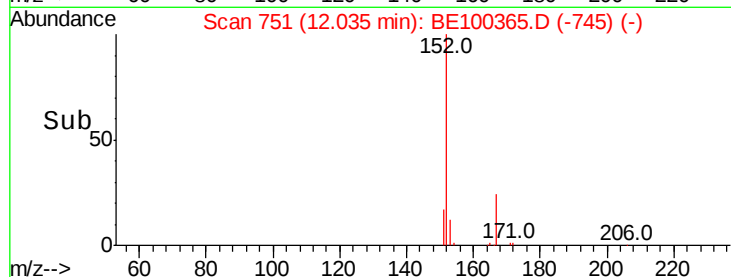
200

100

0

12.00 12.20

Time-->



#12

2-Methylnaphthalene

Concen: 0.171 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.02 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

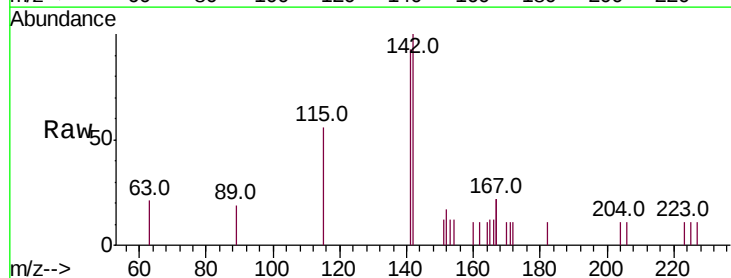
Tgt Ion:142 Resp: 791

Ion Ratio Lower Upper

142 100

141 93.4 72.4 108.6

115 55.6 40.4 60.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.11

400

300

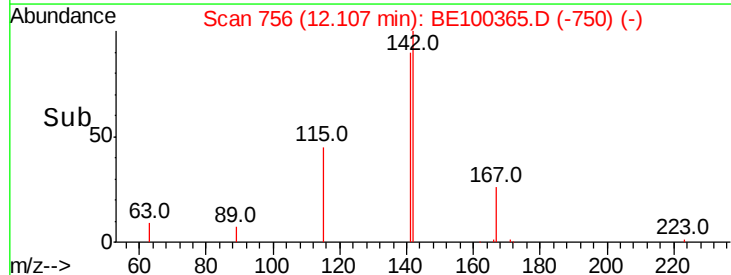
200

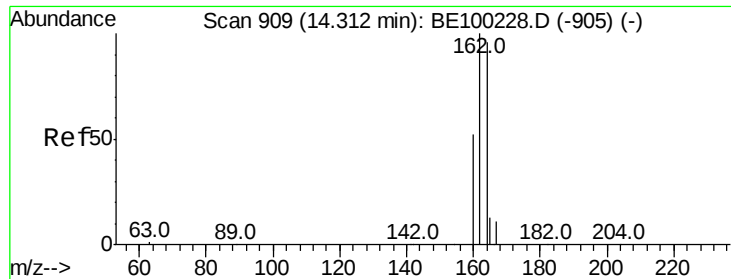
100

0

12.00 12.10 12.20

Time-->

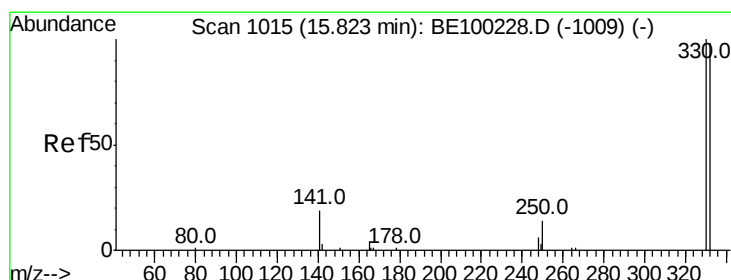
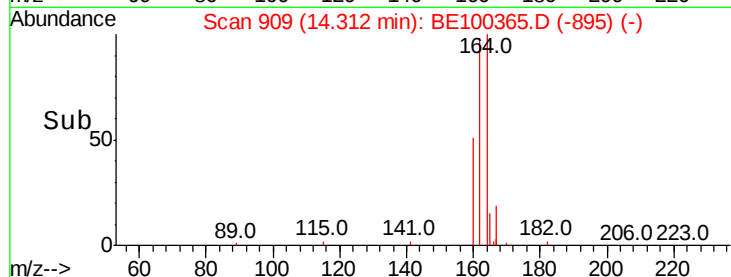
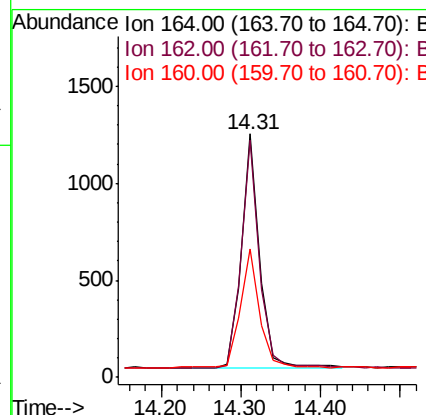
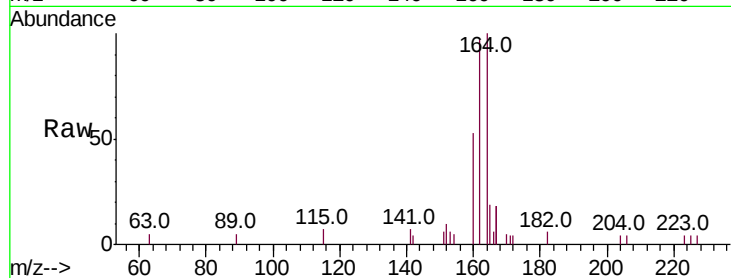




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

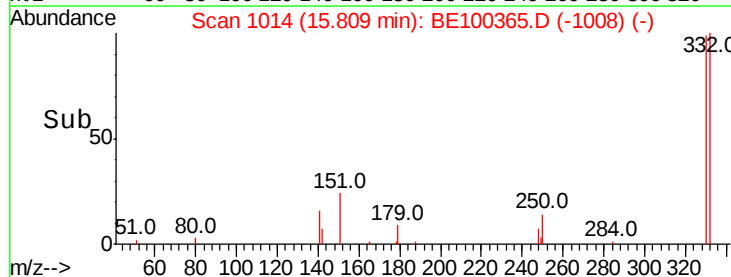
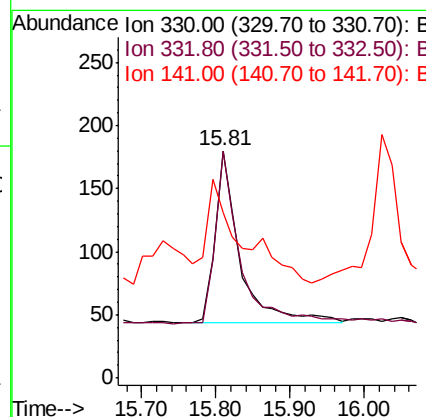
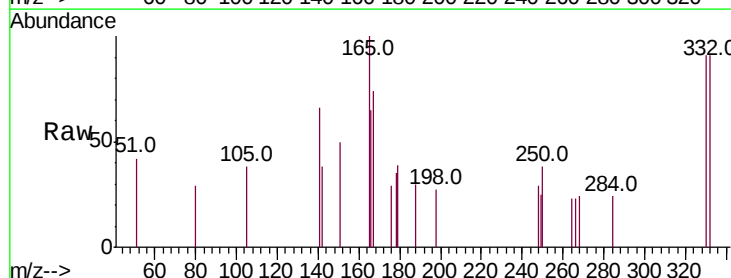
Instrument :
BNA_E
ClientSampleId :

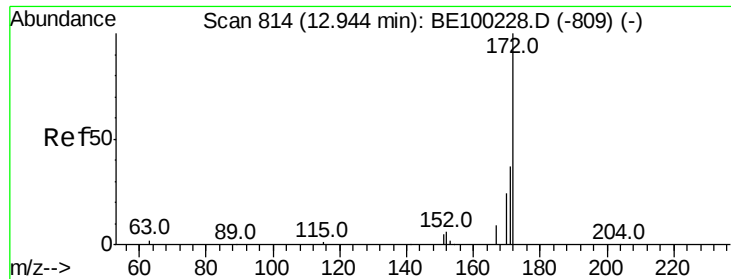
Tot Ion:164 Resp: 1909
Ion Ratio Lower Upper
164 100
162 97.5 83.4 125.0
160 52.7 45.0 67.6



#14
2,4,6-Tribromophenol
Concen: 0.236 ng
RT: 15.81 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:330 Resp: 315
Ion Ratio Lower Upper
330 100
332 99.0 77.0 115.4
141 85.7 22.0 33.0#

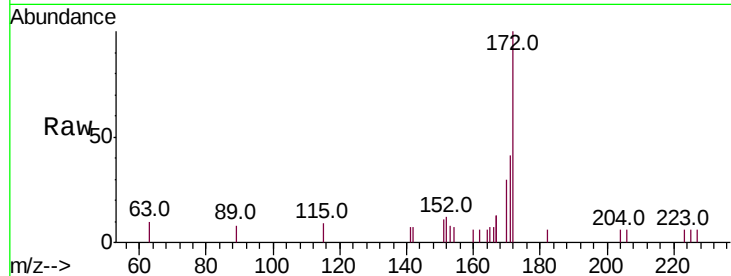




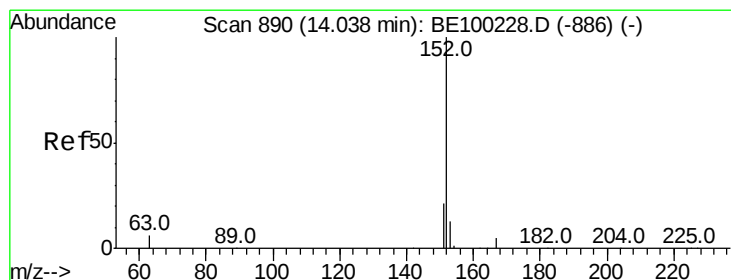
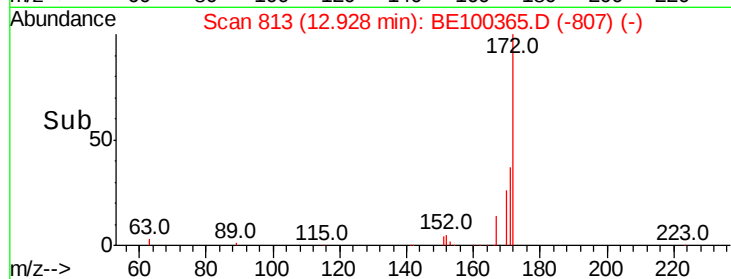
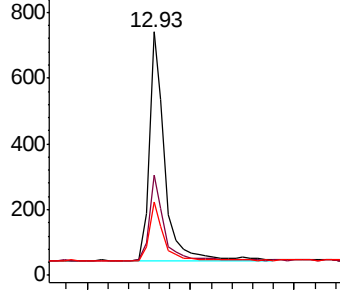
#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.02 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 1479
Ion Ratio Lower Upper
172 100
171 41.2 31.9 47.9
170 30.2 22.2 33.2

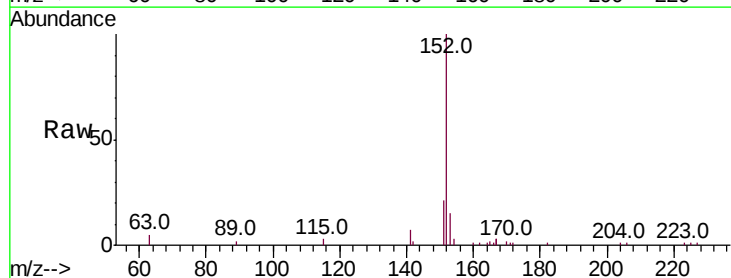


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

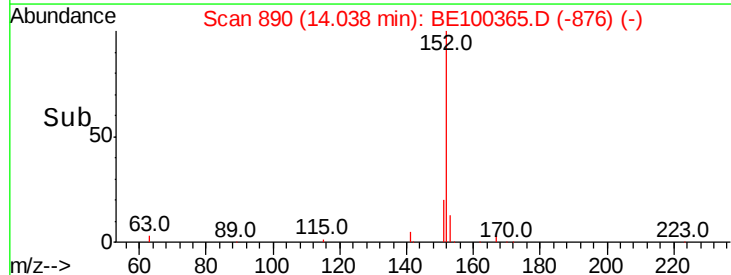
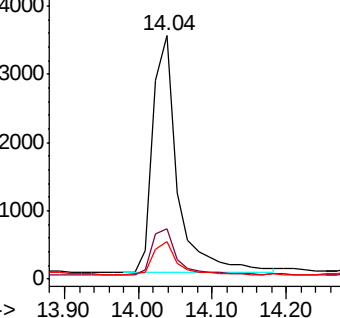


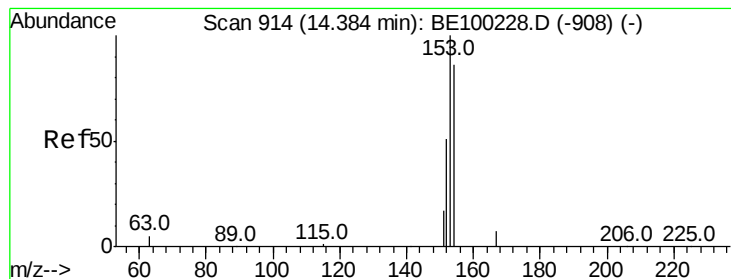
#16
Acenaphthylene
Concen: 0.889 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:152 Resp: 8140
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0
153 13.1 10.5 15.7



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: 0.169 ng

RT: 14.37 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

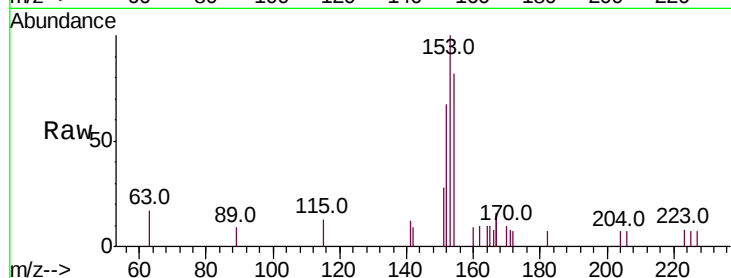
Instrument :

BNA_E

ClientSampleId :

Tot Ion:154 Resp: 877

Ion	Ratio	Lower	Upper
154	100		
153	119.0	93.4	140.2
152	71.0	49.4	74.2

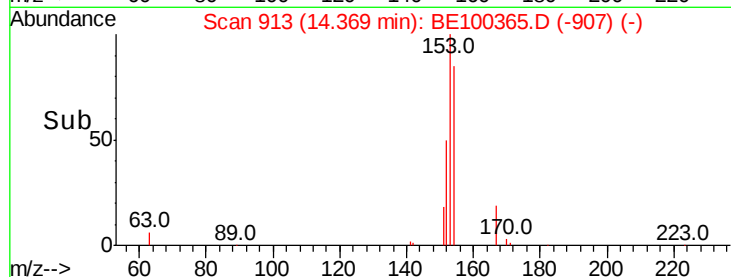
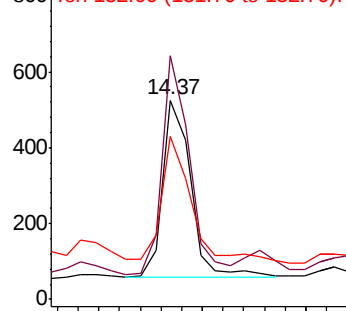


Abundance

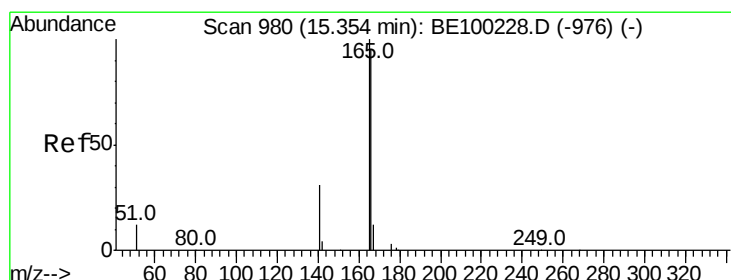
Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#18

Fluorene

Concen: 0.252 ng

RT: 15.35 min Scan# 980

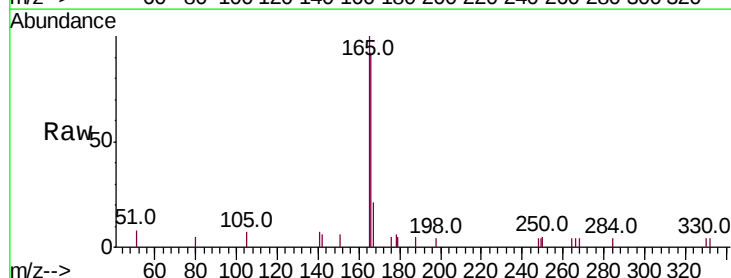
Delta R.T. -0.00 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Tgt Ion:166 Resp: 1933

Ion	Ratio	Lower	Upper
166	100		
165	121.6	81.1	121.7
167	22.1	10.7	16.1#

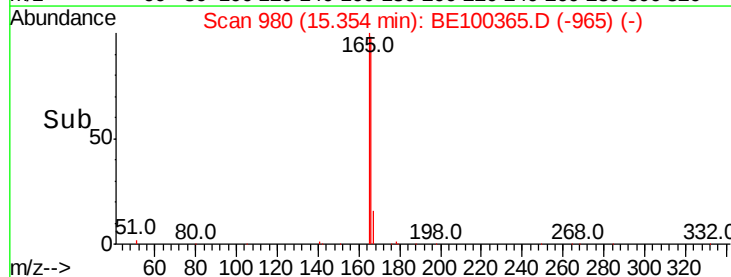
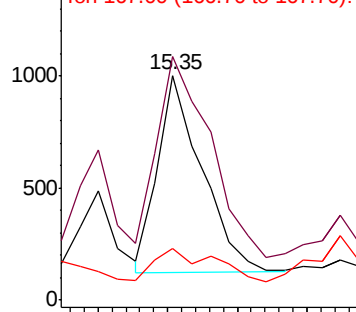


Abundance

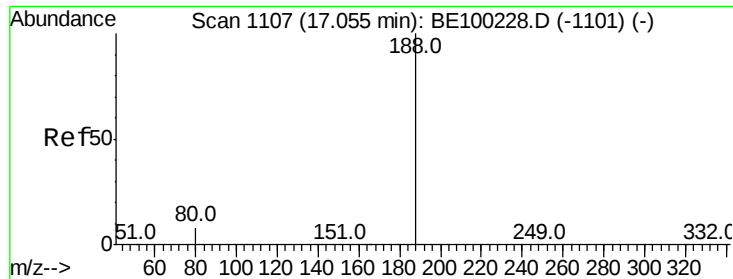
Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



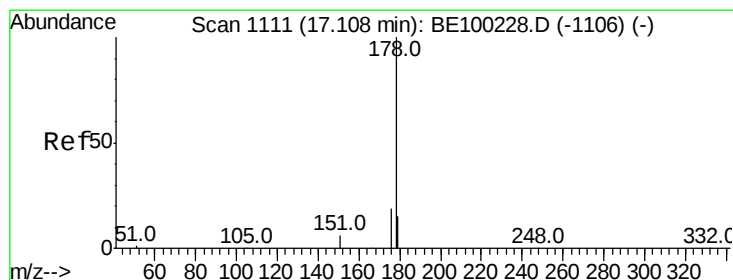
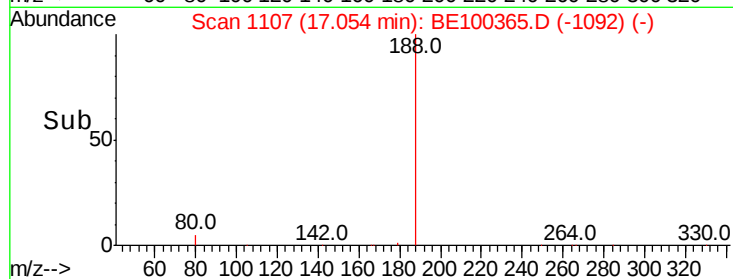
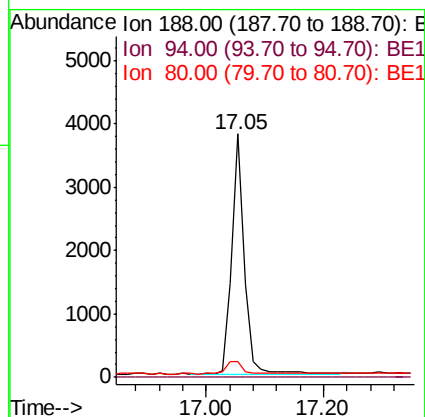
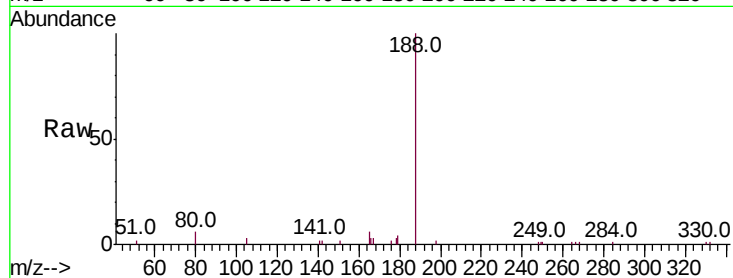
Time-->



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

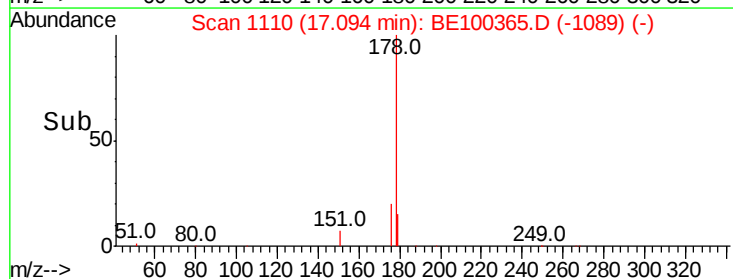
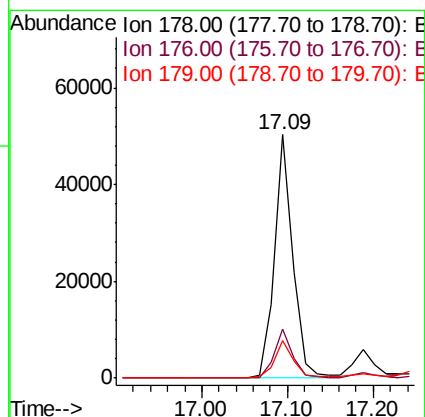
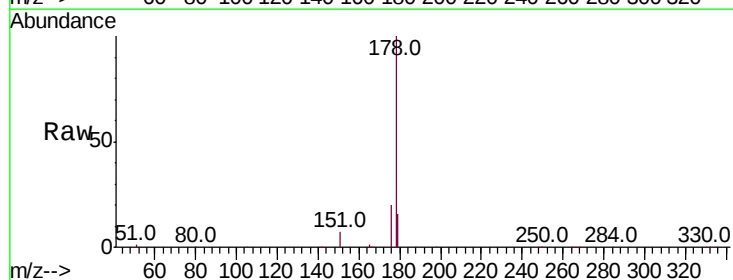
Instrument :
BNA_E
ClientSampleId :

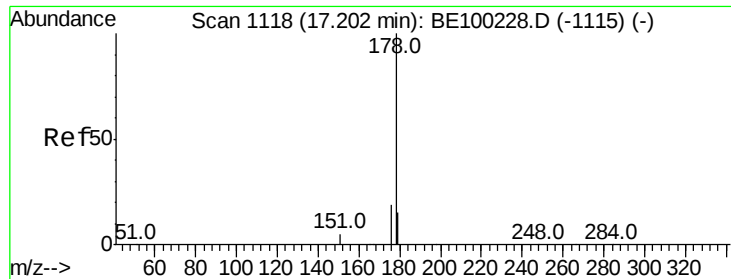
Tot Ion:188 Resp: 5733
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.4 7.6 11.4#



#23
Phenanthrene
Concen: 5.338 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:178 Resp: 74165
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.6 12.2 18.2





#24

Anthracene

Concen: 0.638 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

ClientSampleId :

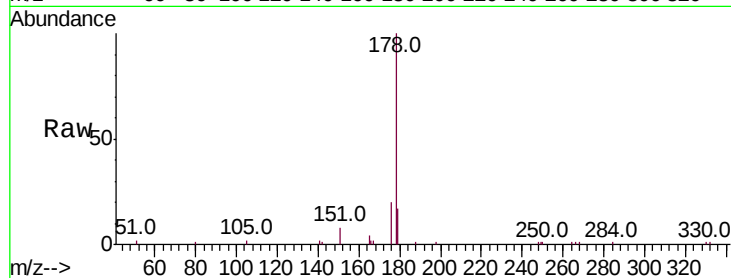
Tot Ion:178 Resp: 7987

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

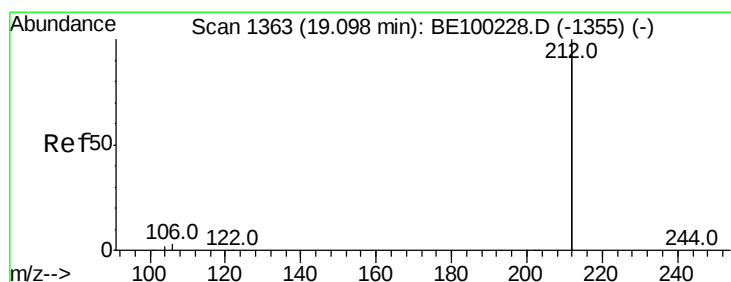
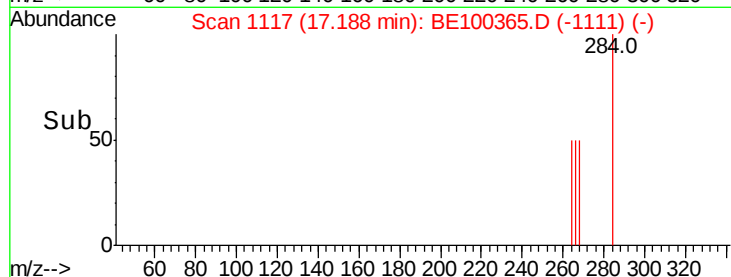
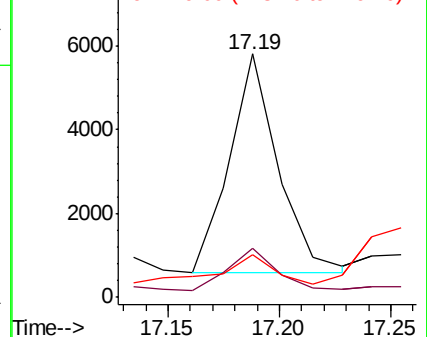
179 13.0 12.2 18.2



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: 0.170 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.00 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

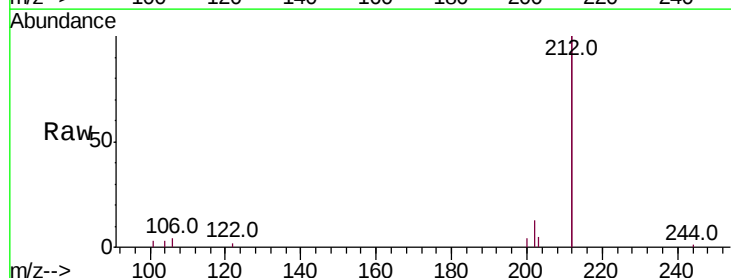
Tgt Ion:212 Resp: 14180

Ion Ratio Lower Upper

212 100

106 1.8 1.3 1.9

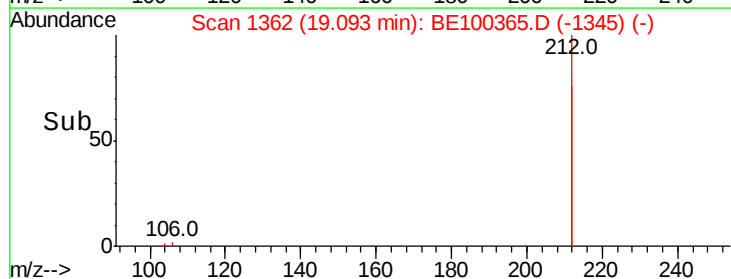
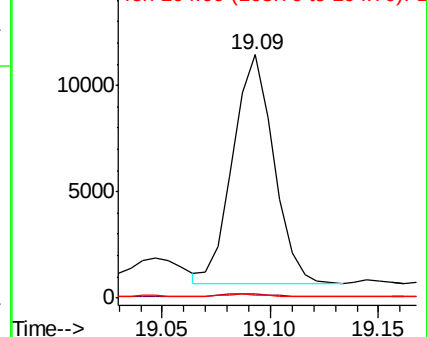
104 1.1 0.8 1.2

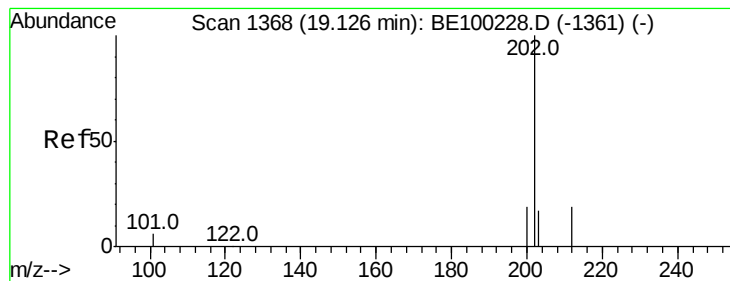


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 8.284 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.00 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

ClientSampleId :

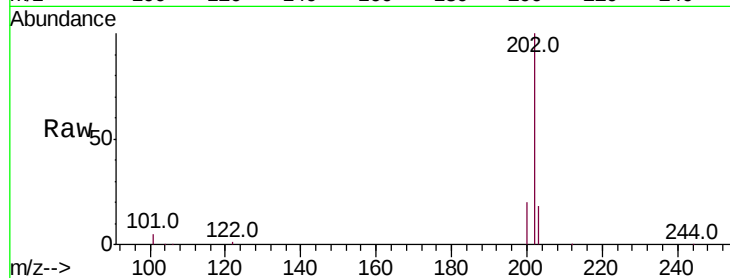
Tot Ion:202 Resp: 183342

Ion Ratio Lower Upper

202 100

101 5.2 4.6 7.0

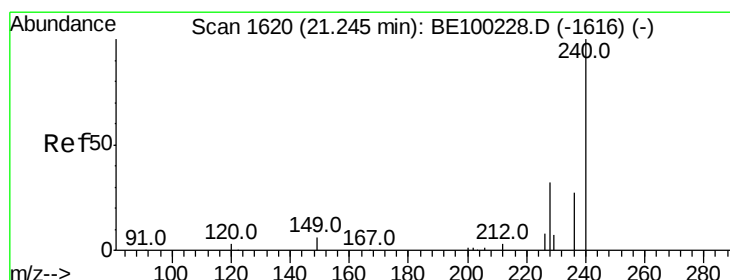
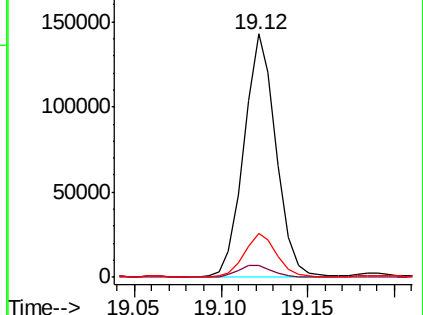
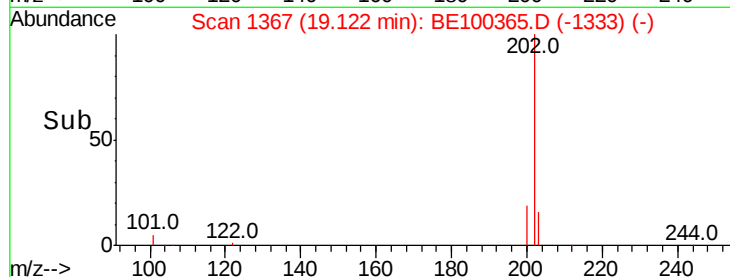
203 17.8 13.7 20.5



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: 21.24 min Scan# 1619

Delta R.T. -0.00 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

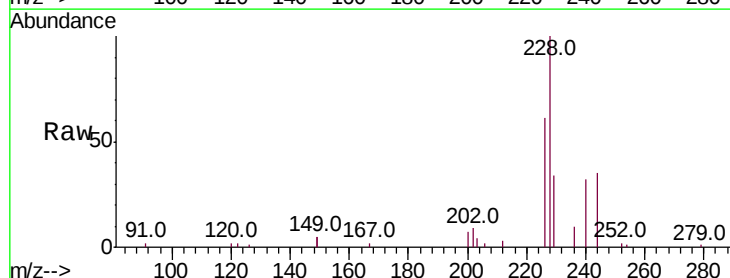
Tgt Ion:240 Resp: 7575

Ion Ratio Lower Upper

240 100

120 5.2 3.3 4.9#

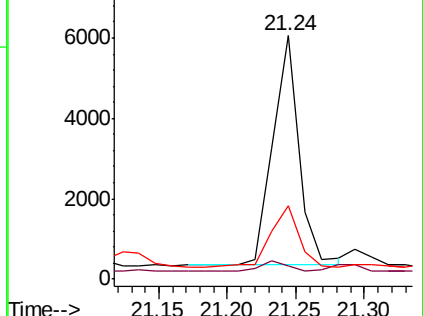
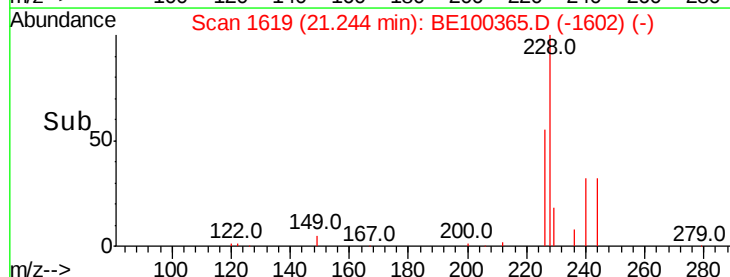
236 30.2 22.6 34.0

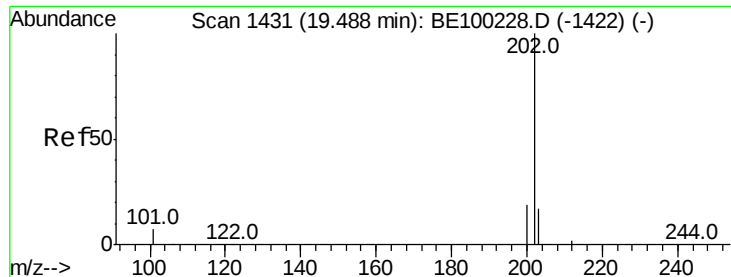


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

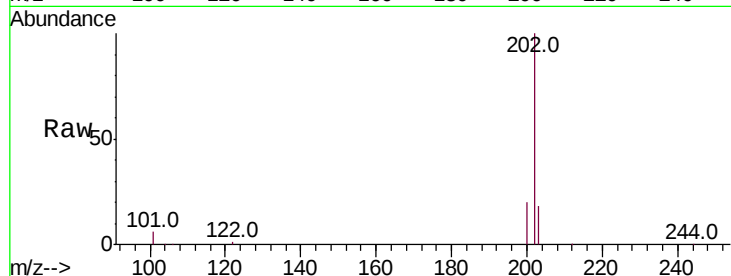




#28
Pvrene
Concen: 13.810 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.6	23.4
203	21.2	14.0	21.0#

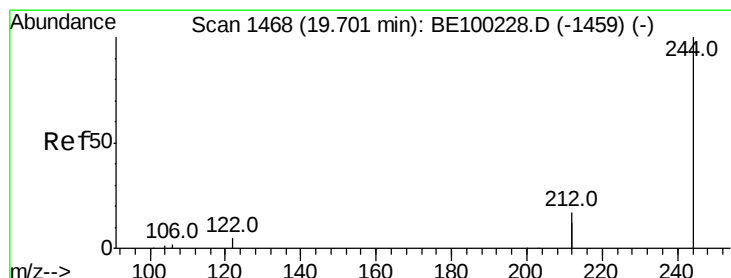
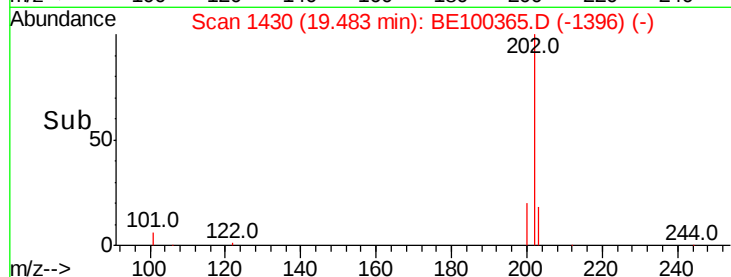
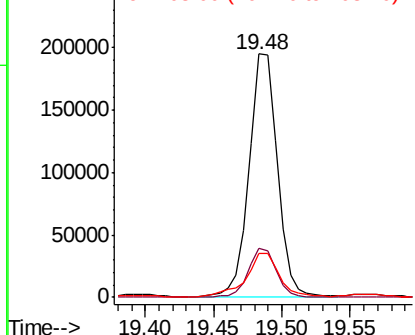


Abundance

Ion 202.00 (201.70 to 202.70): E

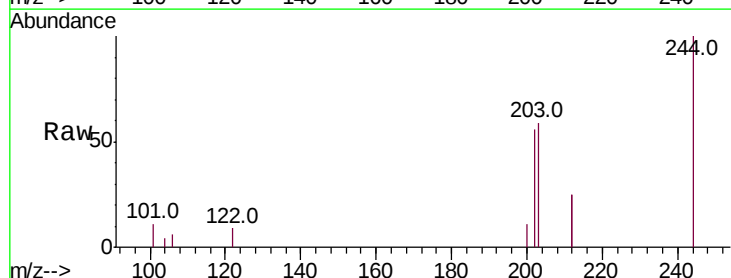
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29
Terphenyl-d14
Concen: 0.199 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion	Ratio	Lower	Upper
244	100		
212	49.7	27.3	40.9#
122	8.6	4.7	7.1#

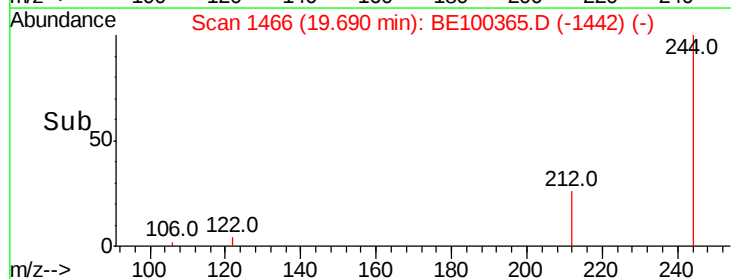
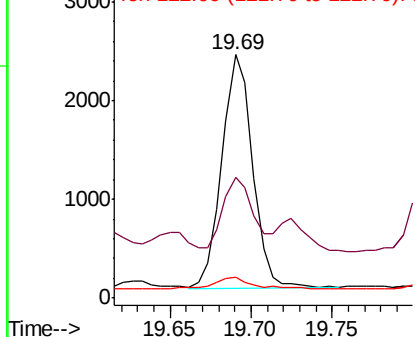


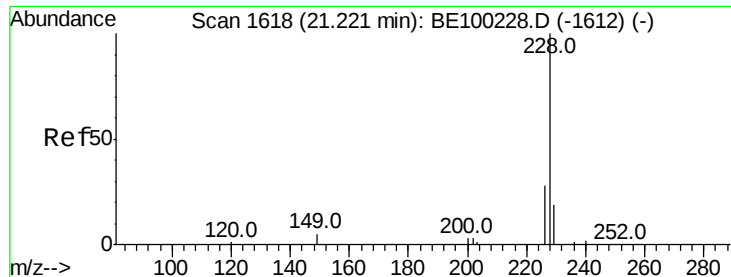
Abundance

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

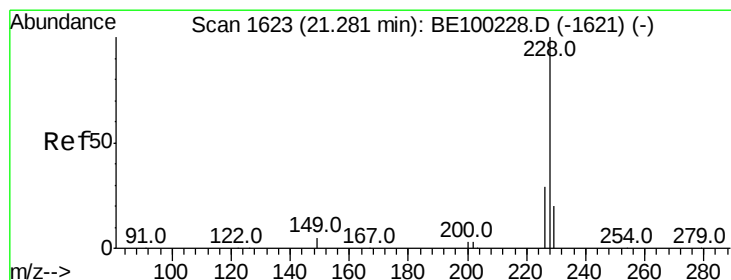
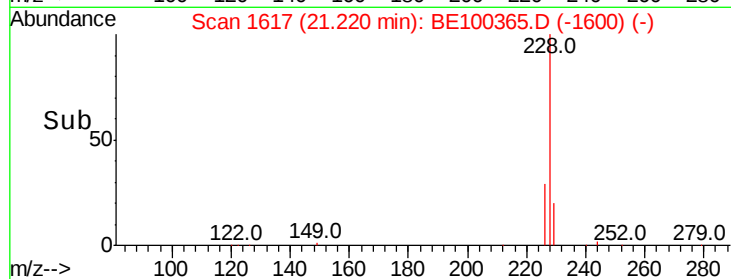
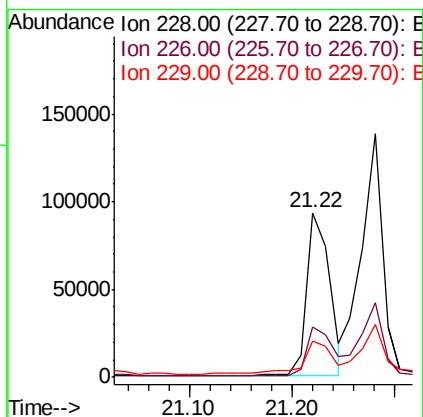
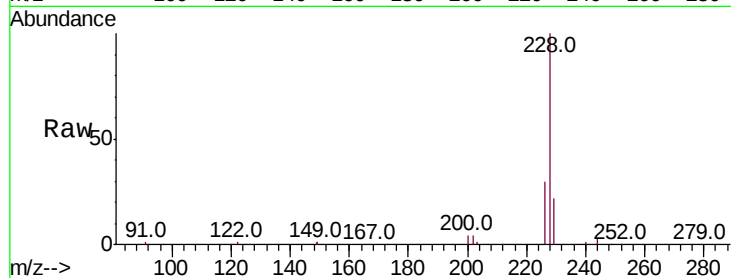




#30
Benzo(a)anthracene
Concen: 5.821 ng
RT: 21.22 min Scan# 1617
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

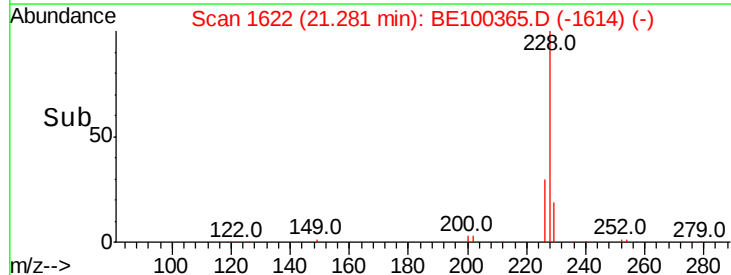
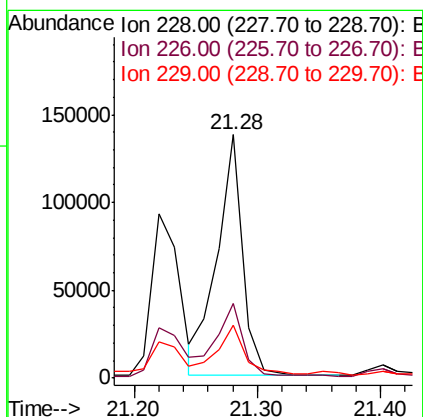
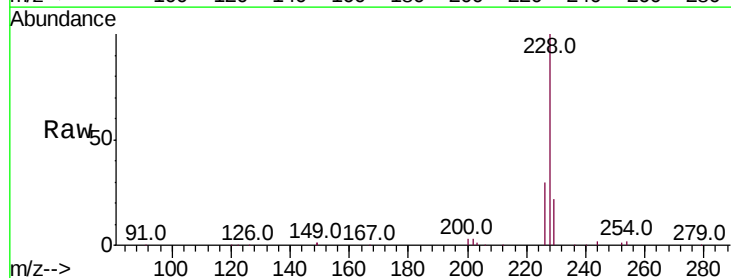
Instrument :
BNA_E
ClientSampleId :

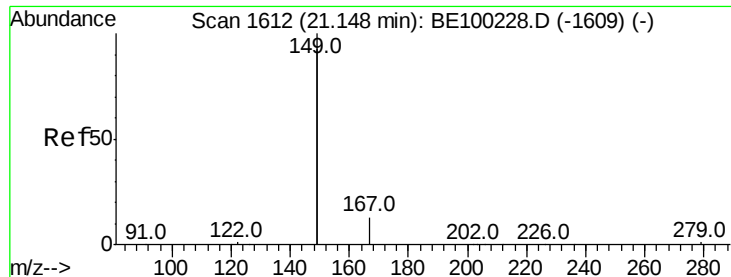
Tot Ion:228 Resp: 144986
Ion Ratio Lower Upper
228 100
226 30.3 23.2 34.8
229 22.3 15.7 23.5



#31
Chrysene
Concen: 7.944 ng
RT: 21.28 min Scan# 1622
Delta R.T. -0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:228 Resp: 198670
Ion Ratio Lower Upper
228 100
226 30.5 23.9 35.9
229 21.7 16.5 24.7

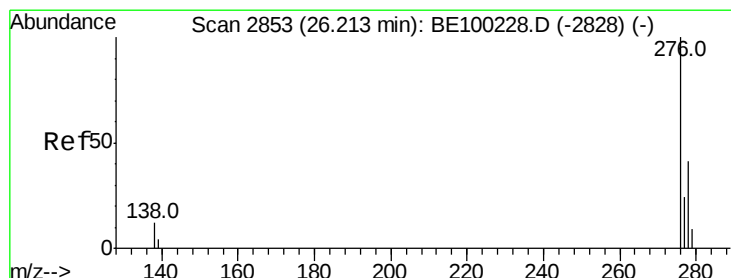
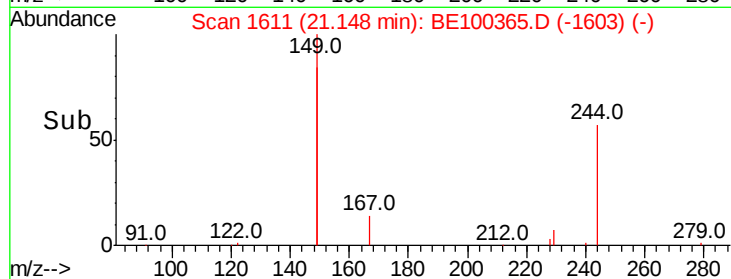
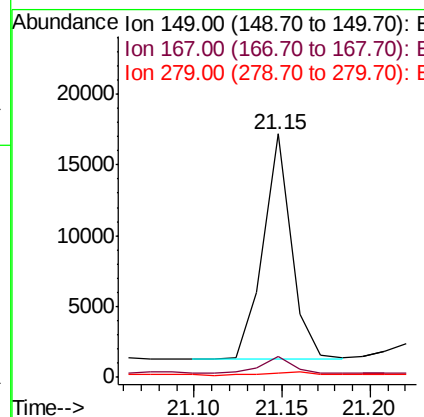
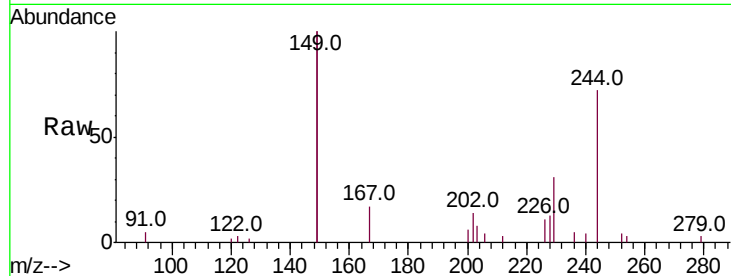




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.446 ng
 RT: 21.15 min Scan# 1611
 Delta R.T. 0.00 min
 Lab File: BE100365.D
 Acq: 4 Jul 2019 14:05

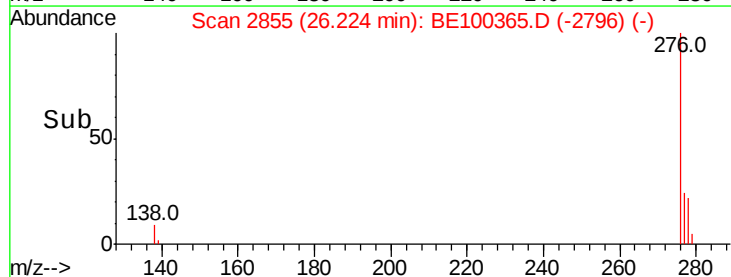
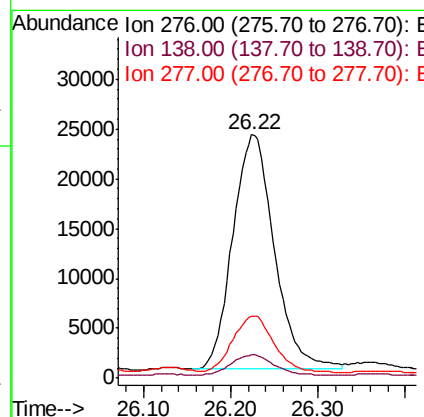
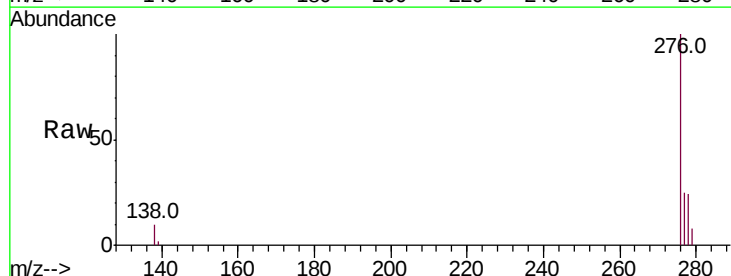
Instrument :
 BNA_E
 ClientSampleId :

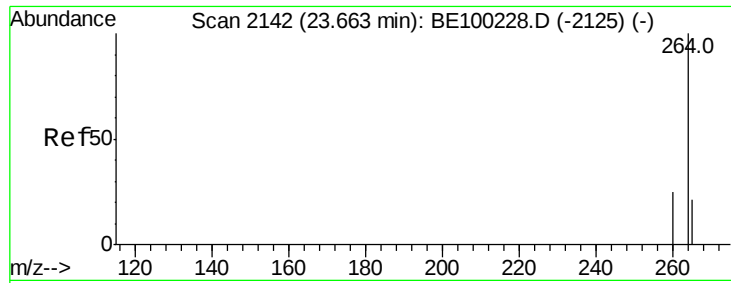
Tot Ion:149 Resp: 17744
 Ion Ratio Lower Upper
 149 100
 167 8.3 5.8 8.8
 279 1.6 1.1 1.7



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 2.356 ng
 RT: 26.22 min Scan# 2855
 Delta R.T. 0.01 min
 Lab File: BE100365.D
 Acq: 4 Jul 2019 14:05

Tgt Ion:276 Resp: 77926
 Ion Ratio Lower Upper
 276 100
 138 8.6 9.4 14.0#
 277 23.4 19.2 28.8

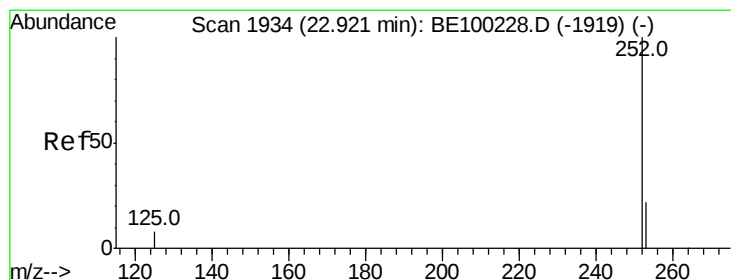
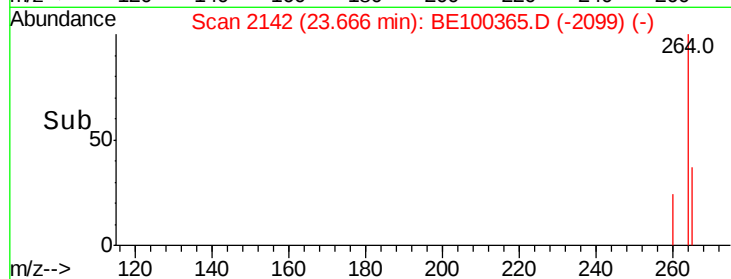
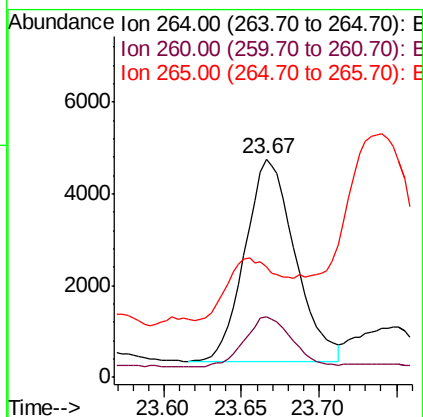
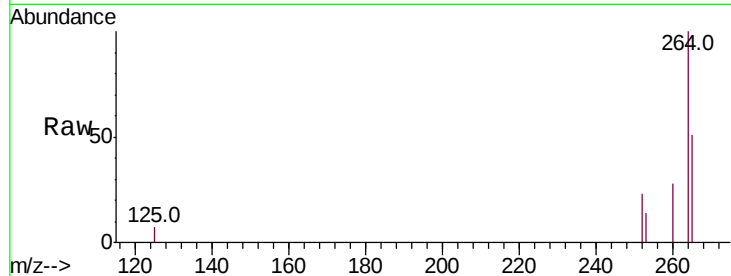




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2142
Delta R.T. 0.00 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

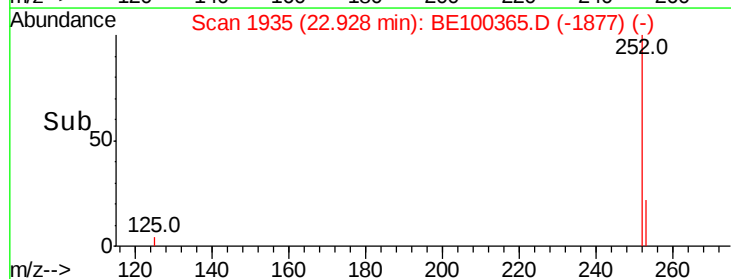
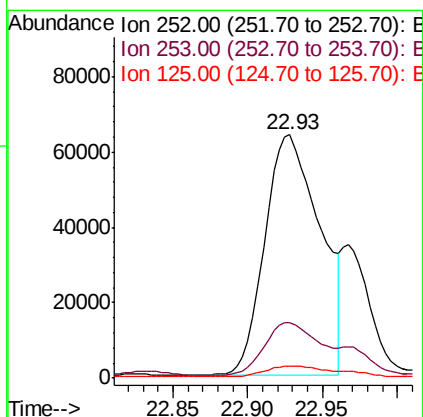
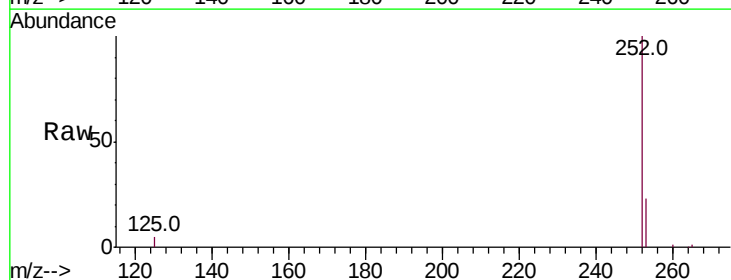
Instrument :
BNA_E
ClientSampleId :

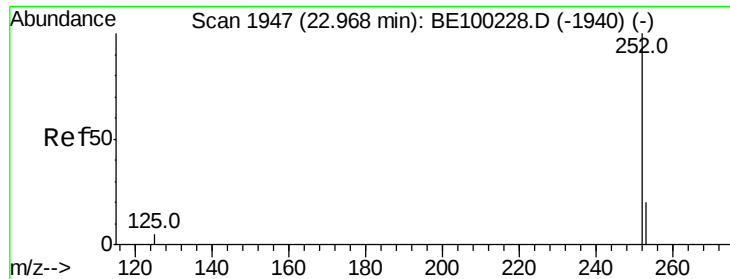
Tot Ion:264 Resp: 9890
Ion Ratio Lower Upper
264 100
260 27.8 20.8 31.2
265 50.9 21.8 32.6#



#35
Benzo(b)fluoranthene
Concen: 6.119 ng
RT: 22.93 min Scan# 1935
Delta R.T. 0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:252 Resp: 164062
Ion Ratio Lower Upper
252 100
253 23.0 19.2 28.8
125 4.8 7.4 11.0#

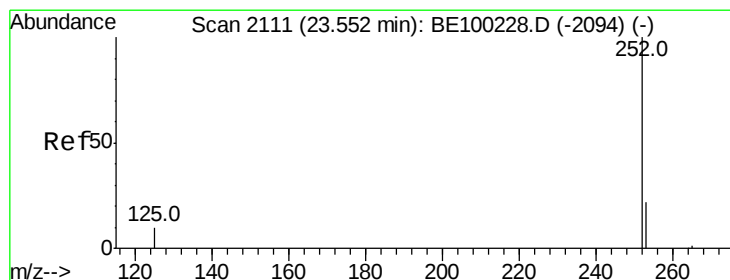
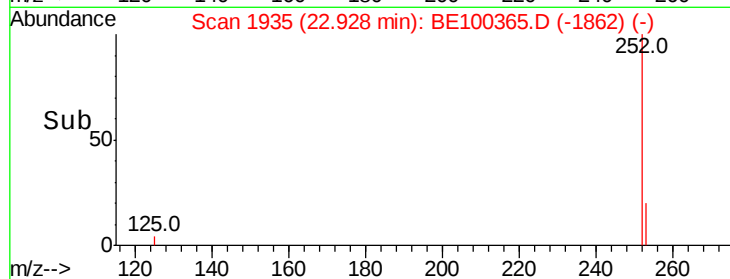
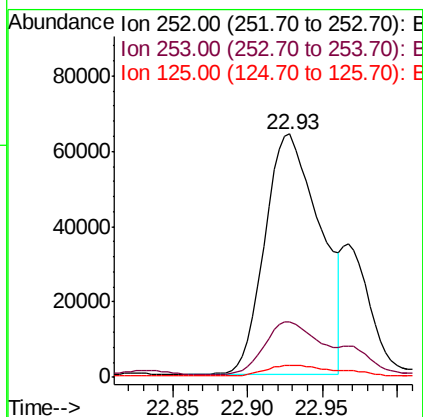
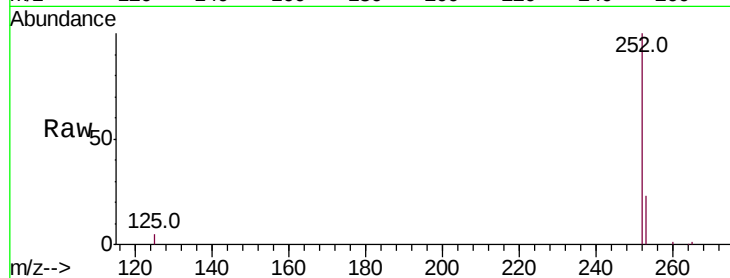




#36
Benzo(k)fluoranthene
Concen: 5.481 ng
RT: 22.93 min Scan# 1935
Delta R.T. -0.04 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

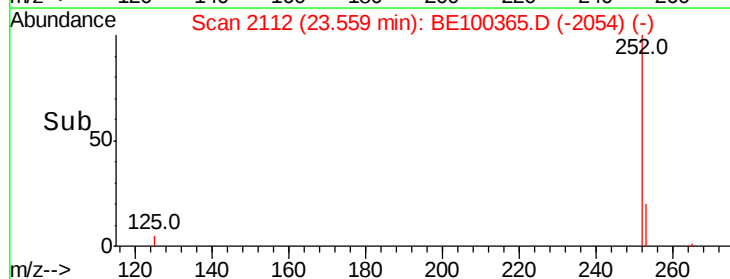
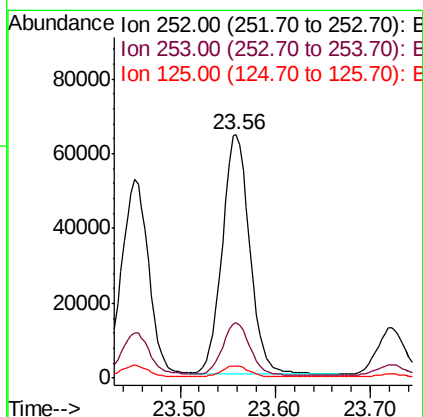
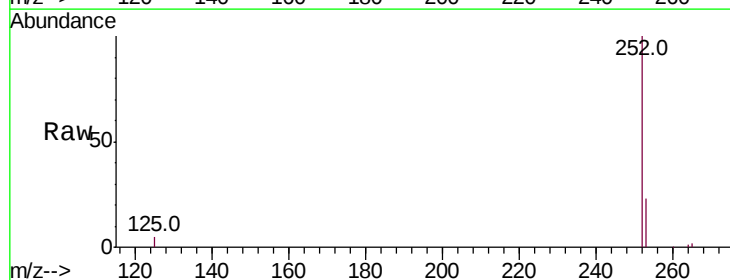
Instrument :
BNA_E
ClientSampleId :

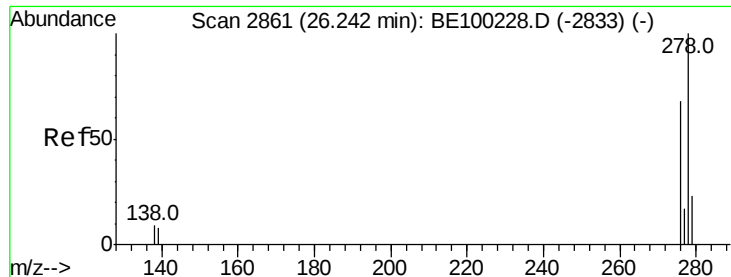
Tot Ion:252 Resp: 164062
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 4.8 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 4.756 ng
RT: 23.56 min Scan# 2112
Delta R.T. 0.01 min
Lab File: BE100365.D
Acq: 4 Jul 2019 14:05

Tgt Ion:252 Resp: 127826
Ion Ratio Lower Upper
252 100
253 22.8 19.6 29.4
125 5.1 9.0 13.6#





#38

Dibenzo(a,h)anthracene

Concen: 0.794 ng

RT: 26.23 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

Instrument :

BNA_E

ClientSampleId :

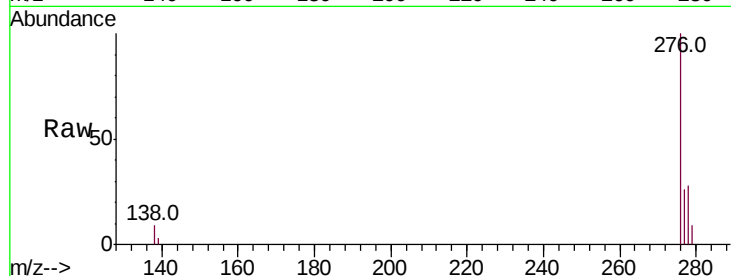
Tot Ion:278 Resp: 22272

Ion Ratio Lower Upper

278 100

139 9.4 8.2 12.2

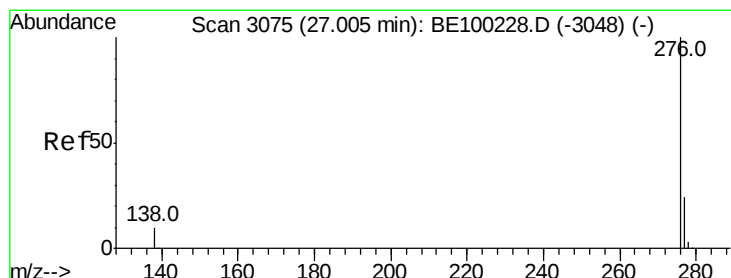
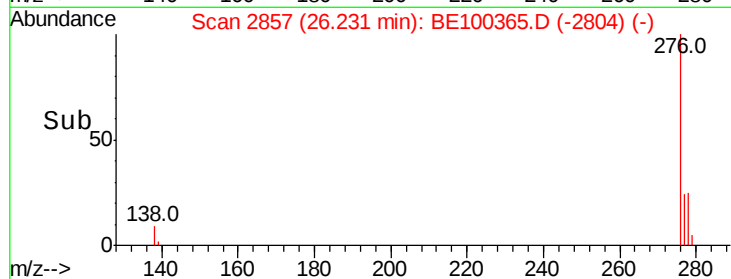
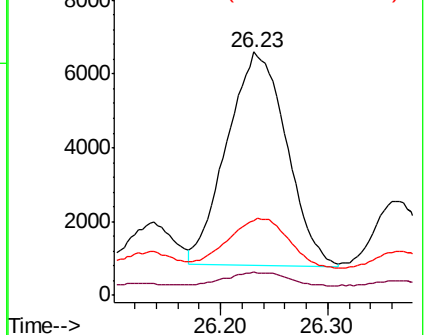
279 30.9 20.3 30.5#



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: 3.149 ng

RT: 27.02 min Scan# 3078

Delta R.T. 0.01 min

Lab File: BE100365.D

Acq: 4 Jul 2019 14:05

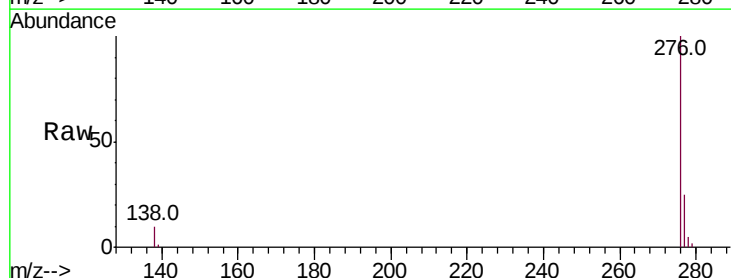
Tgt Ion:276 Resp: 90786

Ion Ratio Lower Upper

276 100

277 24.9 20.2 30.2

138 9.7 9.0 13.6



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

