

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
 Data File : BE100649.D
 Acq On : 15 Oct 2019 14:47
 Operator : JU
 Sample : K4994-04DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 15 16:28:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 10 14:01:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	4645	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	21214	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	13867	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	29127	0.40	ng	0.00
27) Chrysene-d12	21.38	240	30187	0.40	ng	0.01
34) Perylene-d12	23.86	264	35119	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	395	0.03	ng	0.01
5) Phenol-d6	7.02	99	630	0.03	ng	0.01
8) Nitrobenzene-d5	9.00	82	528	0.04	ng	0.01
11) 2-Methylnaphthalene-d10	12.24	152	902	0.03	ng	0.01
14) 2,4,6-Tribromophenol	15.96	330	153	0.04	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	1103	0.02	ng	0.00
25) Fluoranthene-d10	19.23	212	7554	0.02	ng	0.00
29) Terphenyl-d14	19.83	244	2019	0.03	ng	0.00

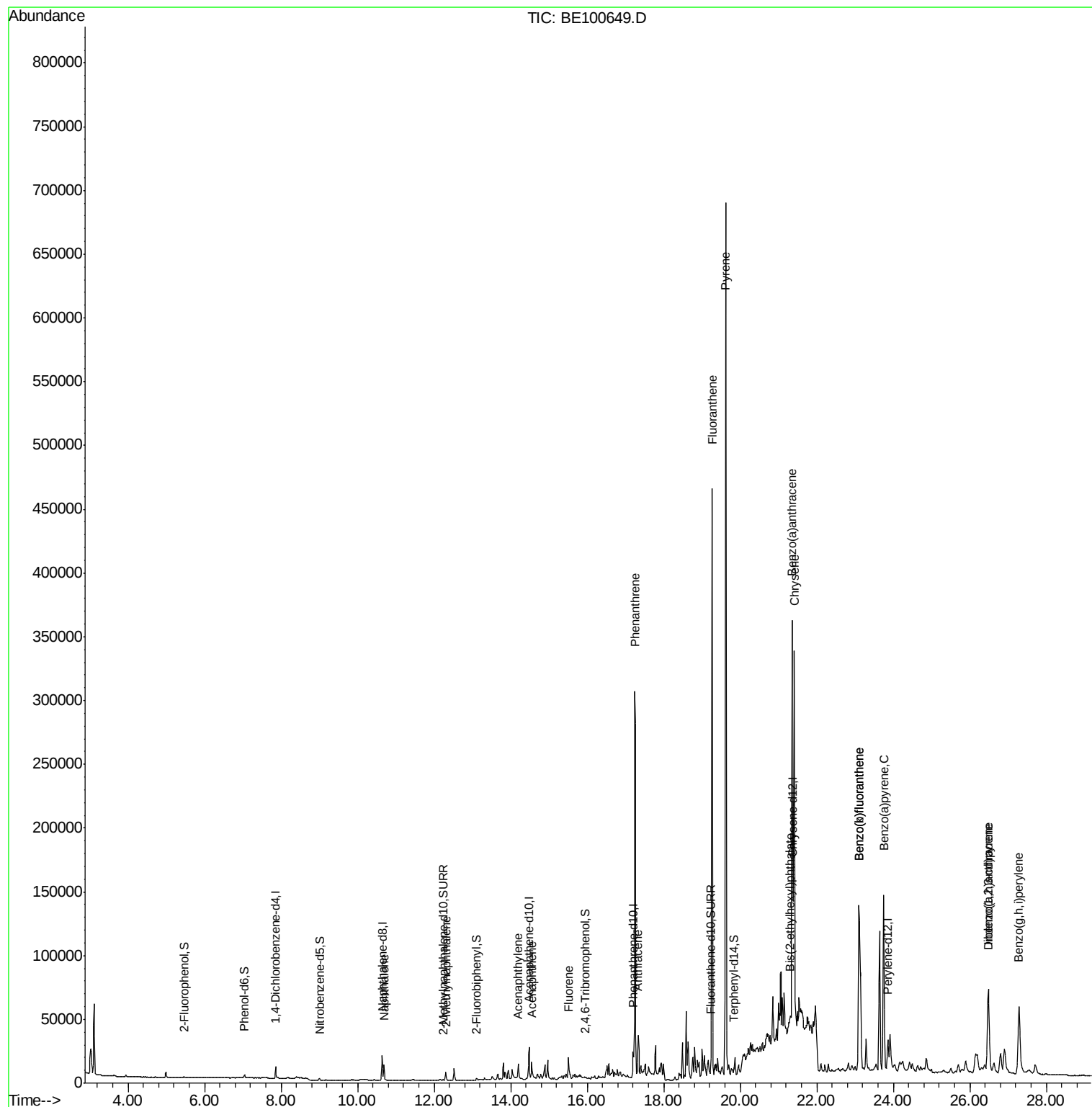
Target Compounds				Qvalue		
9) Naphthalene	10.69	128	19227	0.086	ng	99
12) 2-Methylnaphthalene	12.31	142	5266	0.138	ng	99
16) Acenaphthylene	14.20	152	16250	0.272	ng	96
17) Acenaphthene	14.54	154	6297	0.163	ng	95
18) Fluorene	15.51	166	13110	0.256	ng	# 89
23) Phenanthrene	17.24	178	368682	4.602	ng	100
24) Anthracene	17.33	178	36210	0.487	ng	98
26) Fluoranthene	19.26	202	425722	4.071	ng	98
28) Pyrene	19.62	202	637607	7.560	ng	# 95
30) Benzo(a)anthracene	21.35	228	287259	2.917	ng	94
31) Chrysene	21.41	228	318166	3.233	ng	97
32) Bis(2-ethylhexyl)phthalate	21.31	149	10764	0.052	ng	# 88
33) Indeno(1,2,3-cd)pyrene	26.48	276	121520	1.005	ng	97
35) Benzo(b)fluoranthene	23.10	252	274718	2.683	ng	97
36) Benzo(k)fluoranthene	23.10	252	274718	2.608	ng	97
37) Benzo(a)pyrene	23.75	252	225581	2.367	ng	98
38) Dibenzo(a,h)anthracene	26.49	278	37835	0.384	ng	# 80
39) Benzo(a,h,i)perylene	27.29	276	142427	1.437	ng	98

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

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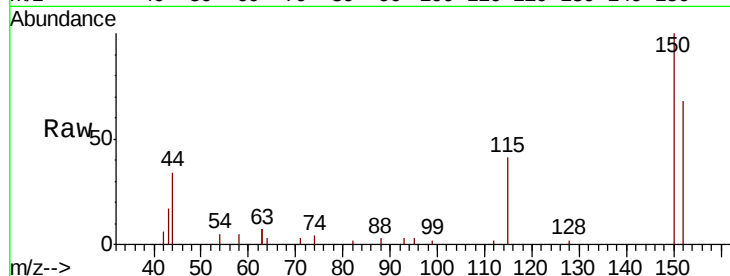


#1

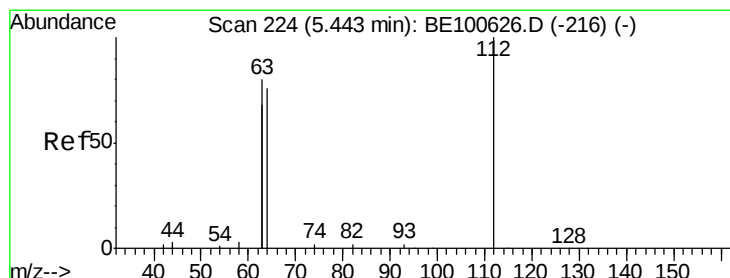
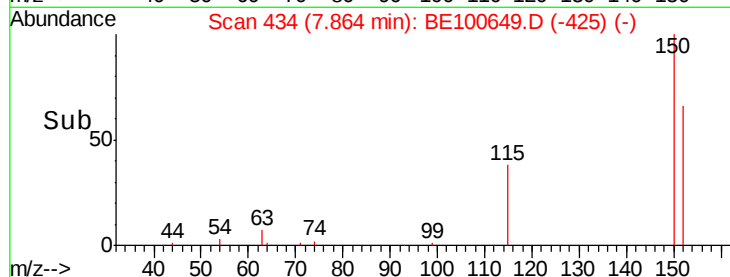
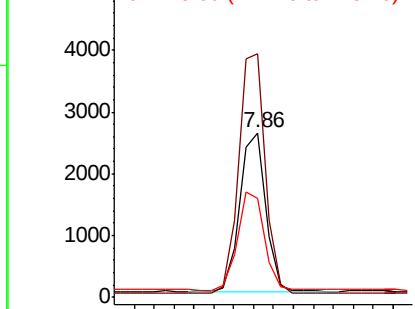
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. 0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 4645
Ion Ratio Lower Upper
152 100
150 148.0 120.7 181.1
115 60.4 48.0 72.0



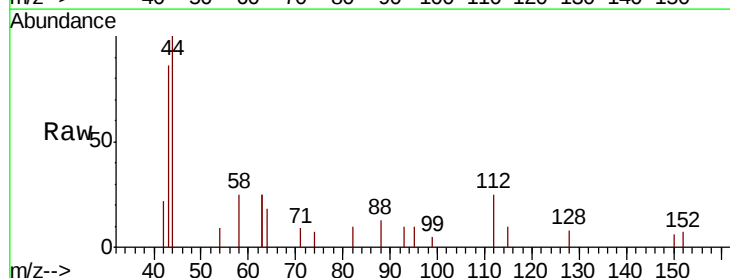
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



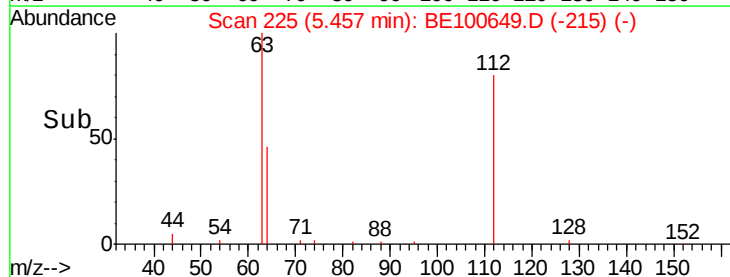
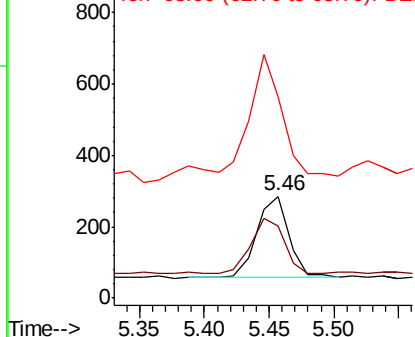
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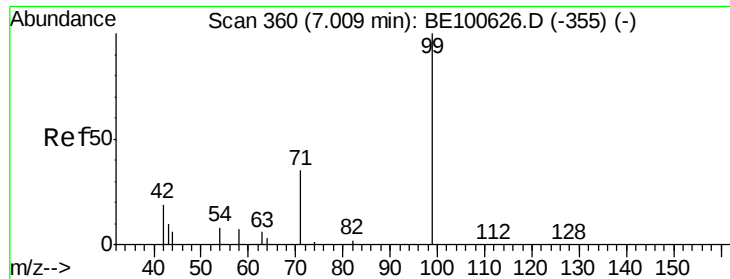
2-Fluorophenol
Concen: 0.028 ng
RT: 5.46 min Scan# 225
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:112 Resp: 395
Ion Ratio Lower Upper
112 100
64 72.7 58.9 88.3
63 150.1 118.3 177.5



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: 0.031 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

ClientSampled :

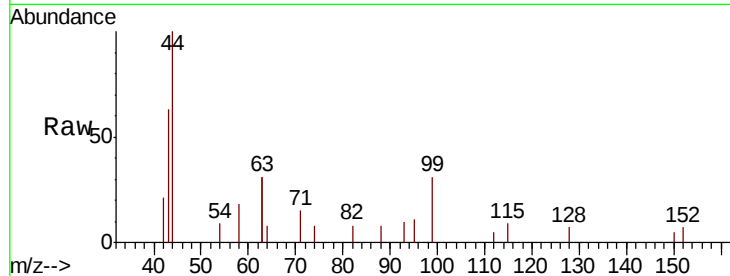
Tot Ion: 99 Resp: 630

Ion Ratio Lower Upper

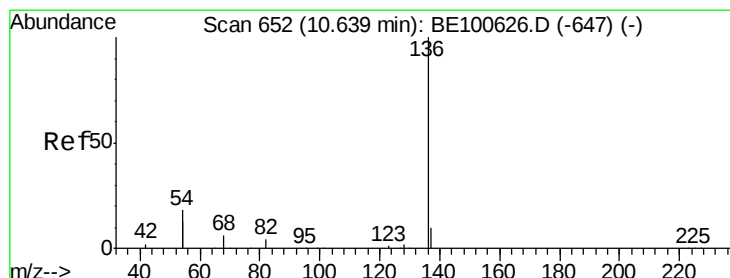
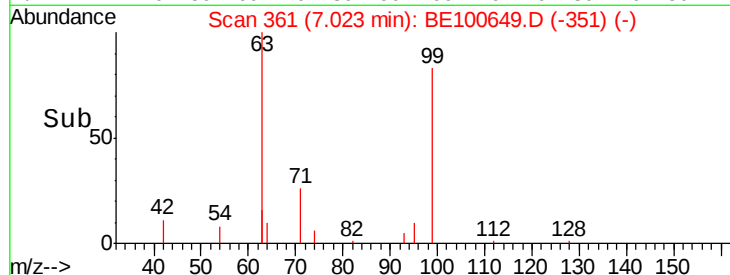
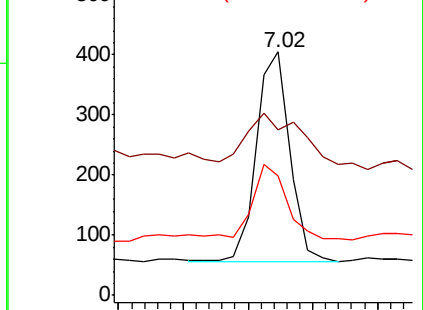
99 100

42 45.6 19.4 29.2#

71 37.8 26.9 40.3



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Tgt Ion: 136 Resp: 21214

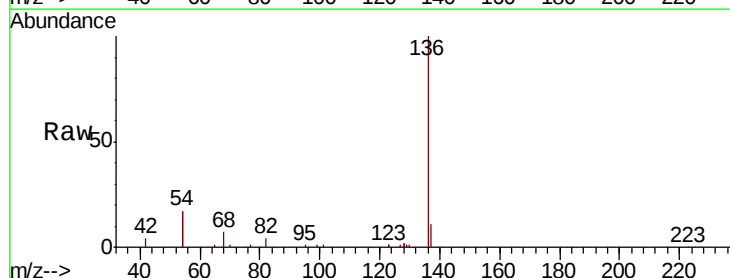
Ion Ratio Lower Upper

136 100

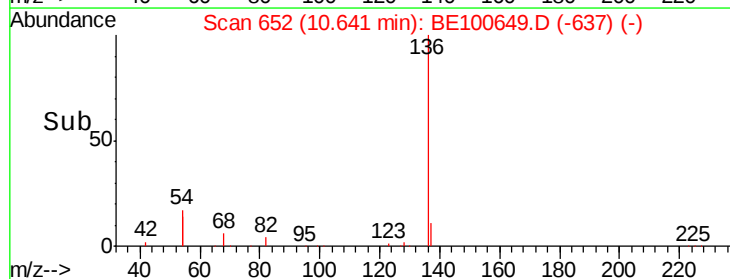
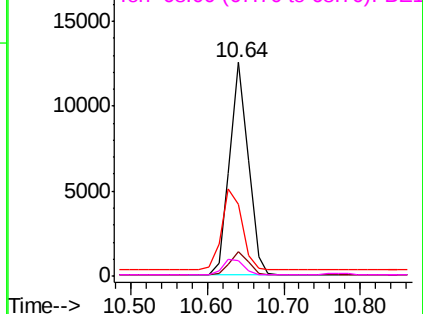
137 11.3 8.6 13.0

54 33.4 28.7 43.1

68 7.1 5.9 8.9



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): BE1
Ion 68.00 (67.70 to 68.70): BE1

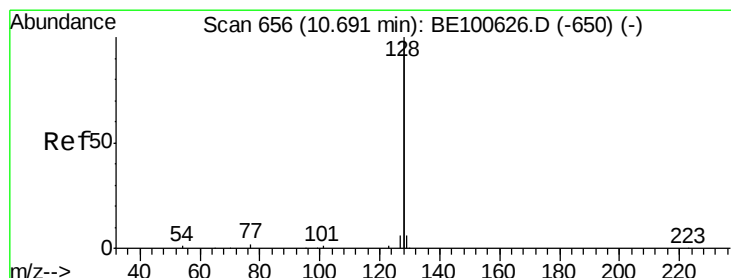
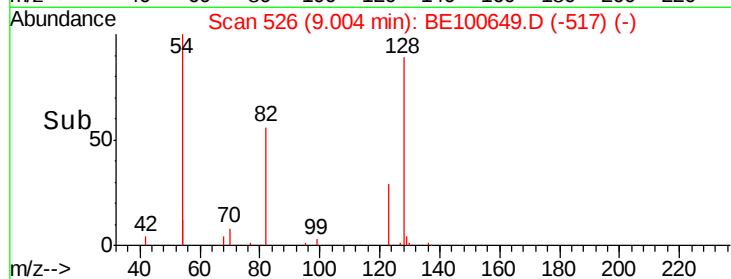
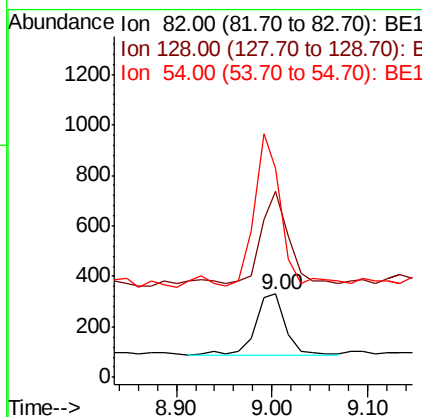
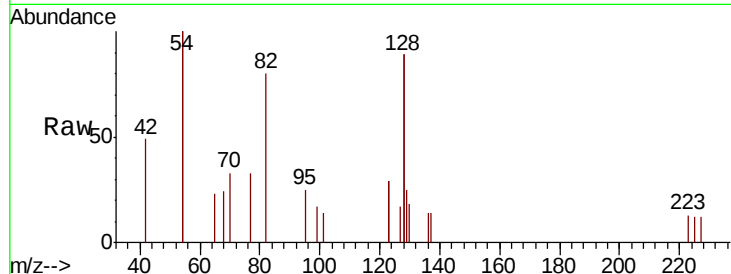




#8
 Nitrobenzene-d5
 Concen: 0.040 ng
 RT: 9.00 min Scan# 526
 Delta R.T. 0.01 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

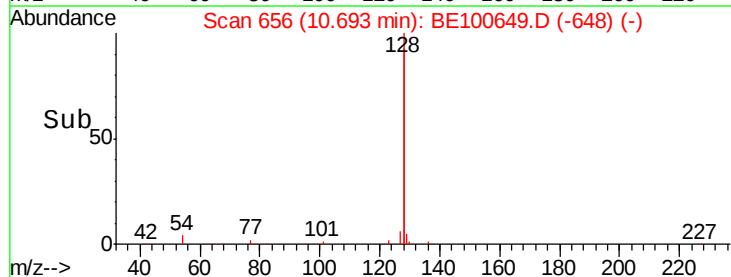
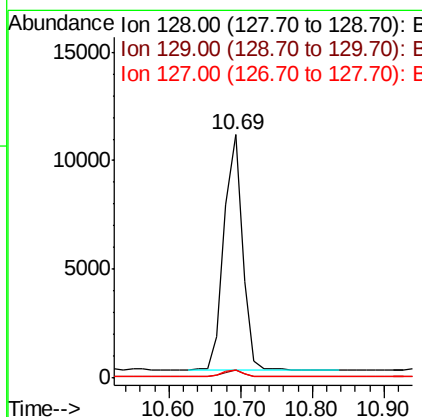
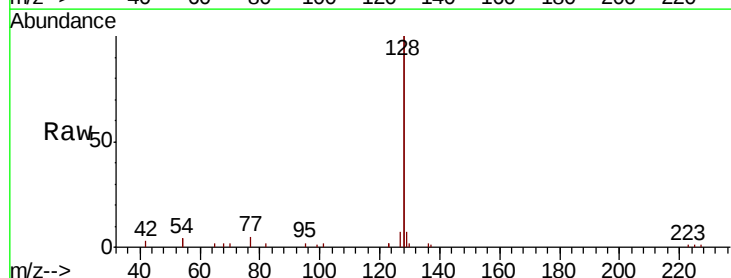
Instrument :
 BNA_E
 ClientSampleId :

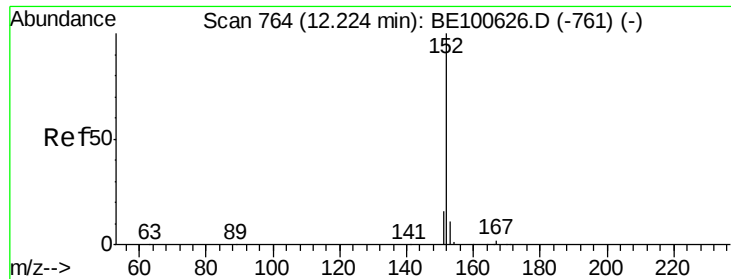
Tot Ion: 82 Resp: 528
 Ion Ratio Lower Upper
 82 100
 128 223.6 90.7 136.1#
 54 250.9 210.9 316.3



#9
 Naphthalene
 Concen: 0.086 ng
 RT: 10.69 min Scan# 656
 Delta R.T. 0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion: 128 Resp: 19227
 Ion Ratio Lower Upper
 128 100
 129 3.3 2.4 3.6
 127 3.5 2.6 3.8

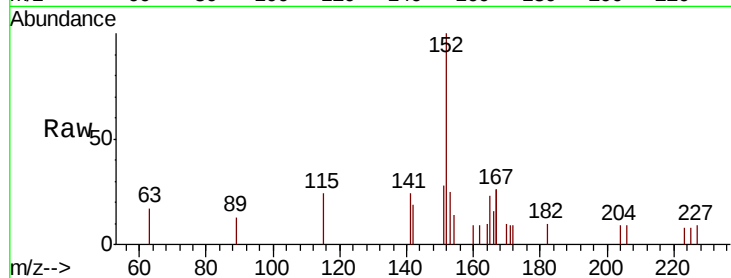




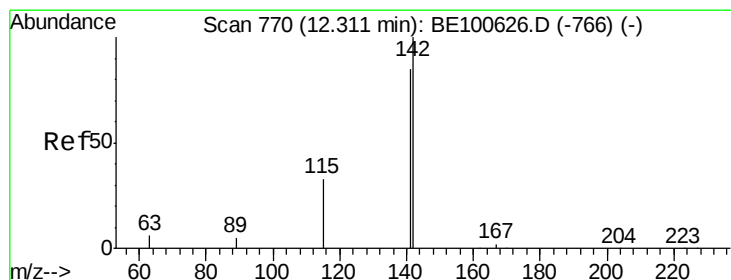
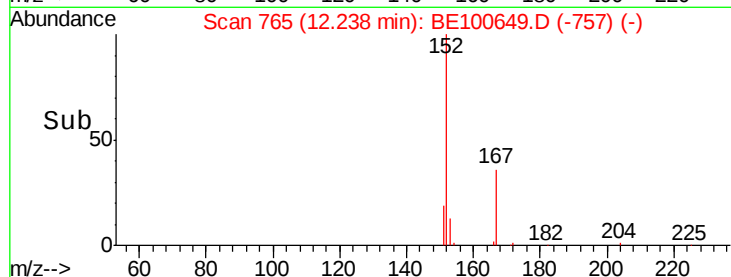
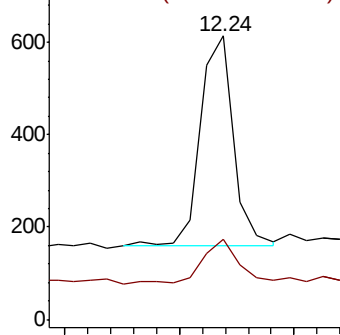
#11
2-Methylnaphthalene-d10
Concen: 0.027 ng
RT: 12.24 min Scan# 765
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 902
Ion Ratio Lower Upper
152 100
151 19.1 15.2 22.8

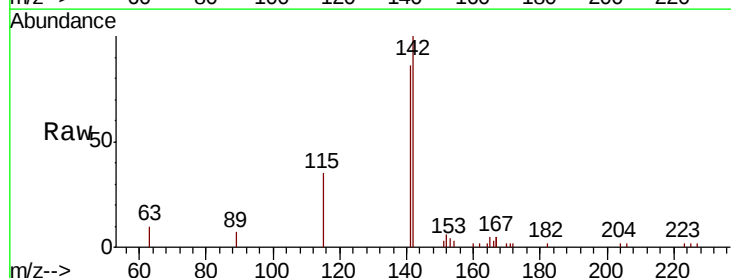


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E

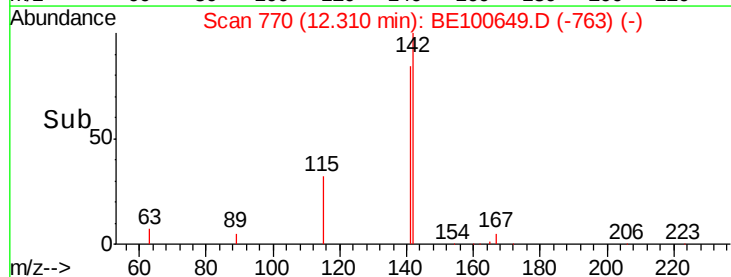
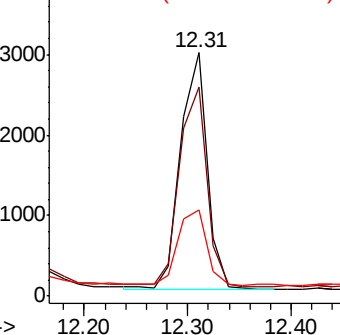


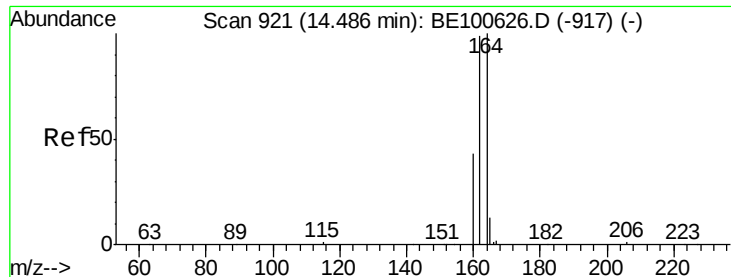
#12
2-Methylnaphthalene
Concen: 0.138 ng
RT: 12.31 min Scan# 770
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:142 Resp: 5266
Ion Ratio Lower Upper
142 100
141 85.7 68.3 102.5
115 35.4 27.5 41.3



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

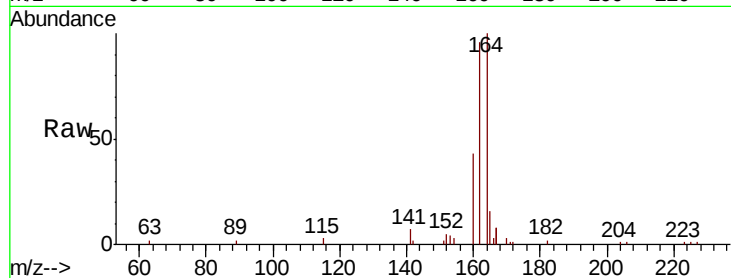




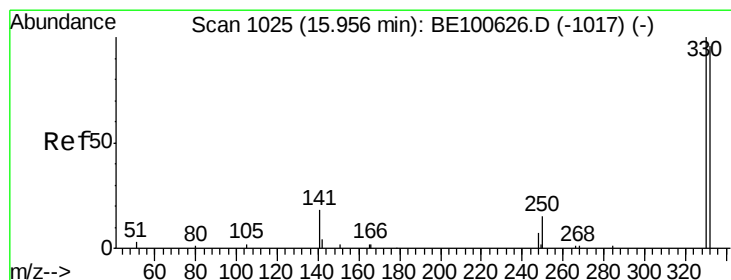
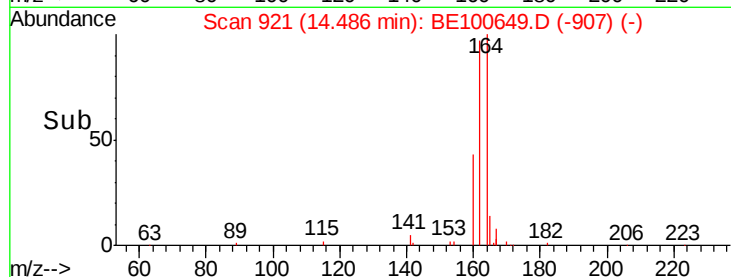
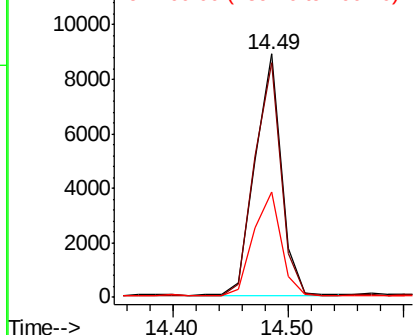
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.49 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:164 Resp: 13867
 Ion Ratio Lower Upper
 164 100
 162 96.4 79.1 118.7
 160 43.5 34.7 52.1

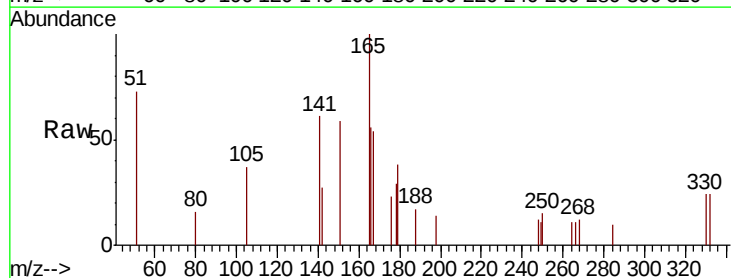


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

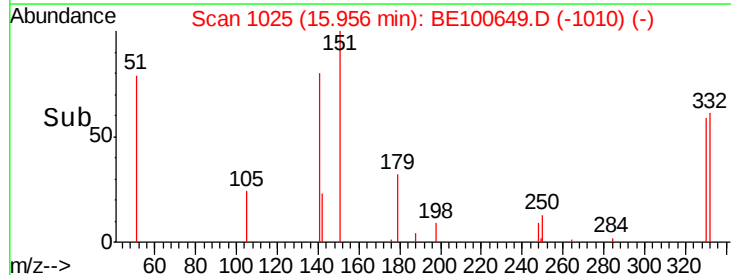
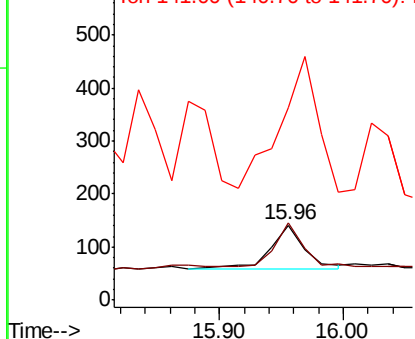


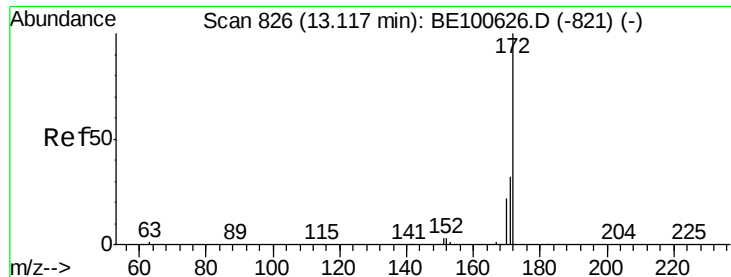
#14
 2,4,6-Tribromophenol
 Concen: 0.042 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion:330 Resp: 153
 Ion Ratio Lower Upper
 330 100
 332 89.5 75.2 112.8
 141 369.3 37.5 56.3#



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

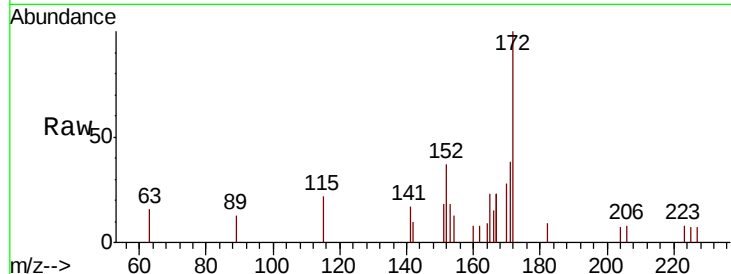




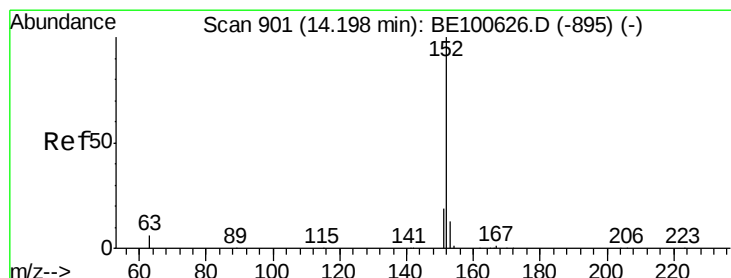
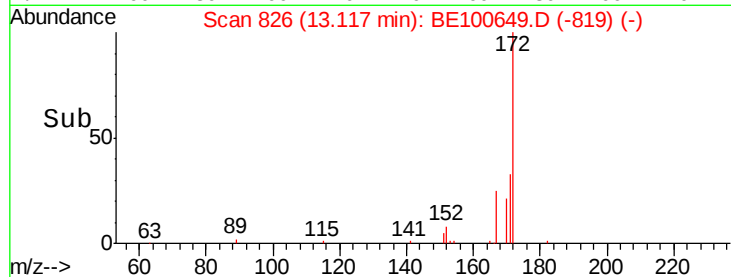
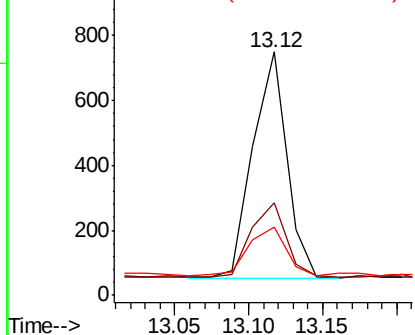
#15
2-Fluorobiphenyl
Concen: 0.022 ng
RT: 13.12 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 1103
Ion Ratio Lower Upper
172 100
171 38.2 26.2 39.4
170 28.0 17.5 26.3#

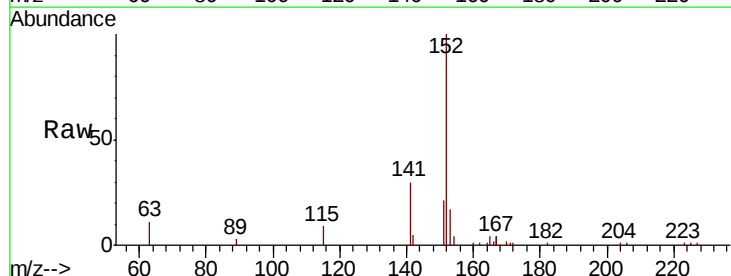


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

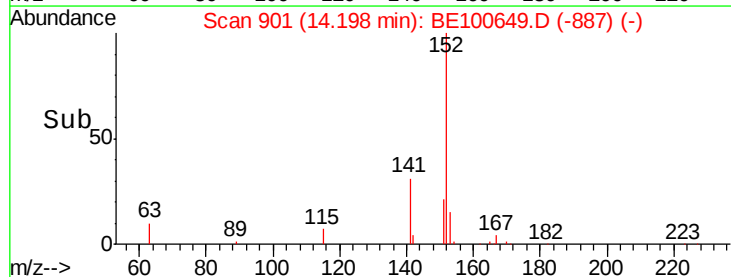
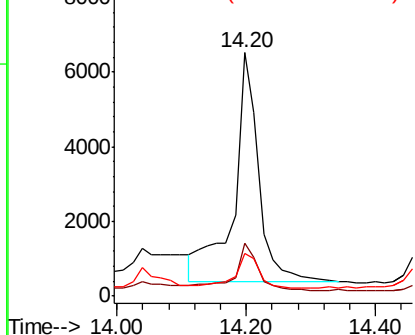


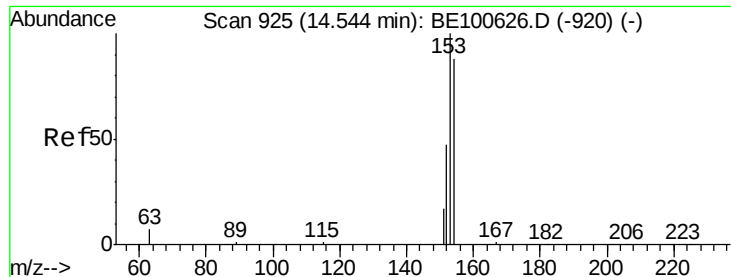
#16
Acenaphthylene
Concen: 0.272 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:152 Resp: 16250
Ion Ratio Lower Upper
152 100
151 20.7 15.6 23.4
153 15.4 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

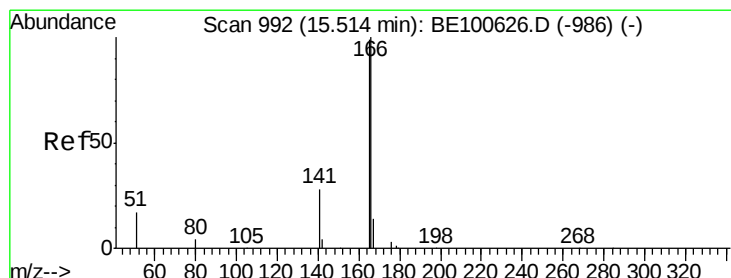
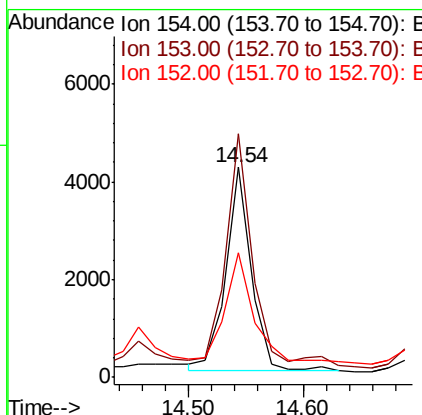
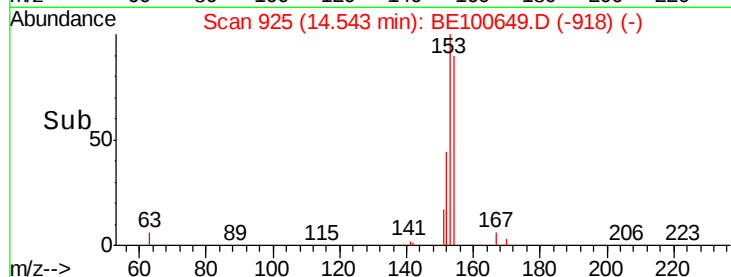
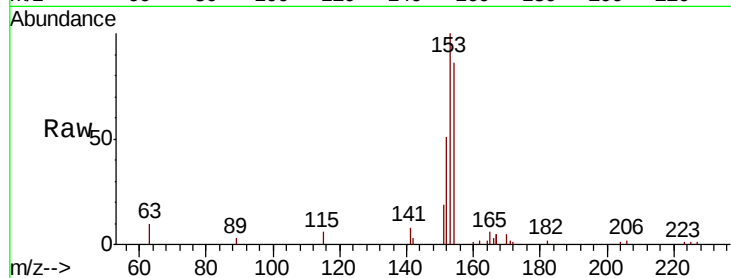




#17
Acenaphthene
Concen: 0.163 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

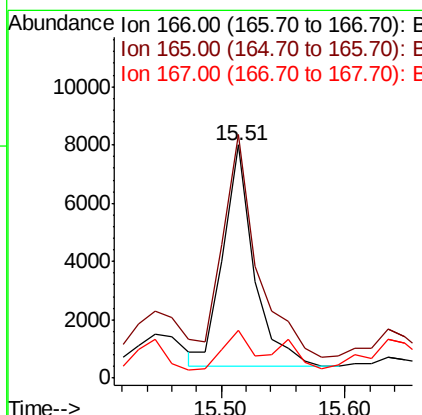
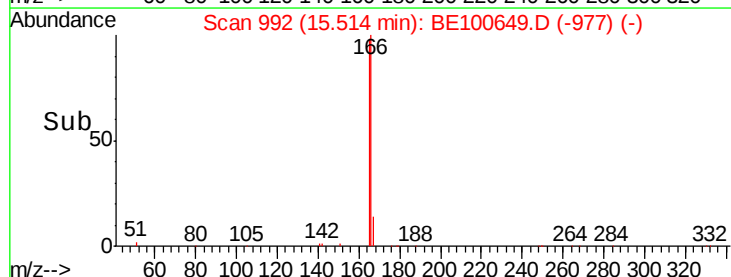
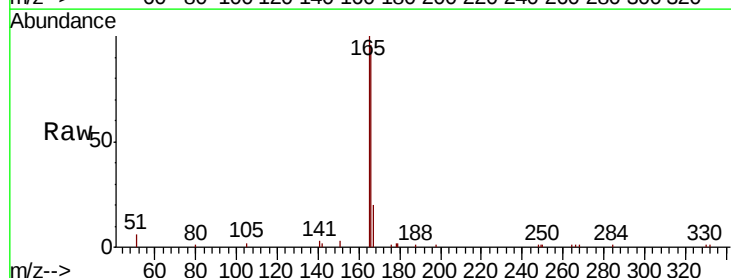
Instrument :
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ClientSampleId :

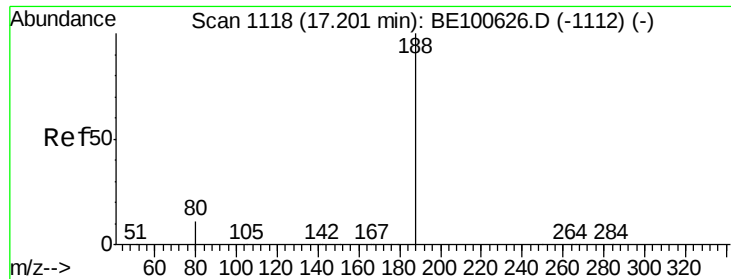
Tot Ion:154 Resp: 6297
Ion Ratio Lower Upper
154 100
153 119.9 91.4 137.2
152 59.4 44.0 66.0



#18
Fluorene
Concen: 0.256 ng
RT: 15.51 min Scan# 992
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:166 Resp: 13110
Ion Ratio Lower Upper
166 100
165 109.0 78.9 118.3
167 18.7 10.9 16.3#

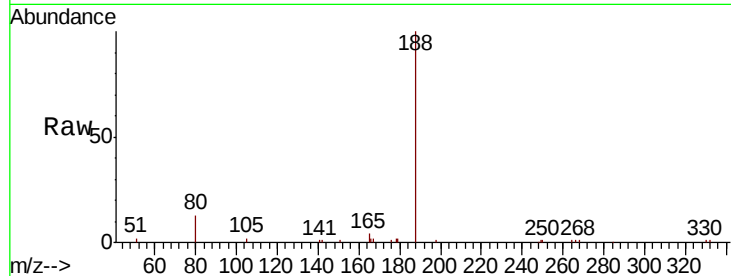




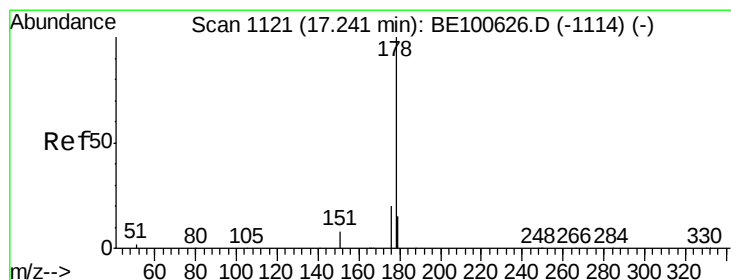
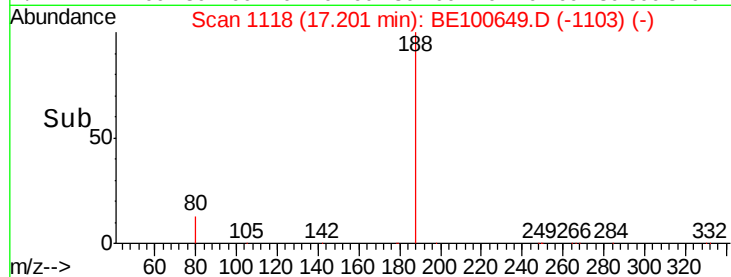
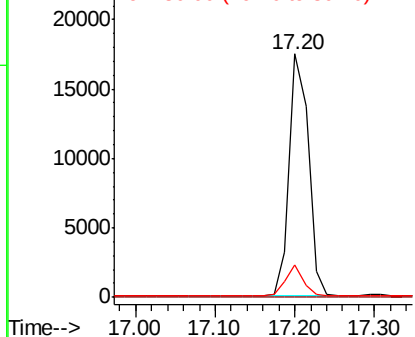
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 29127
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.5 9.4 14.2

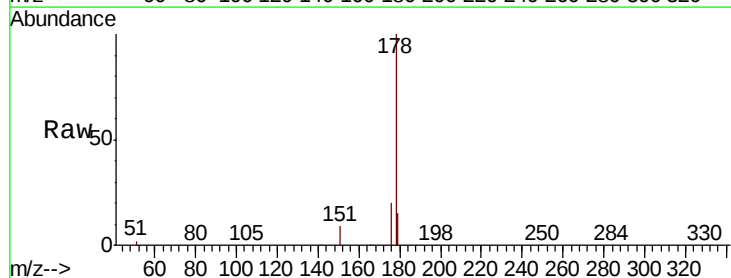


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE1
Ion 80.00 (79.70 to 80.70): BE1

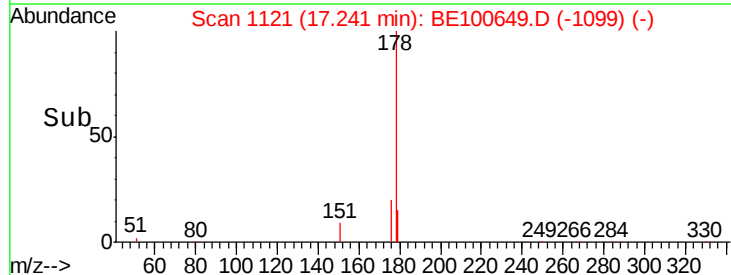
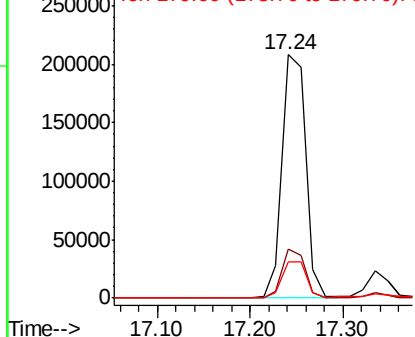


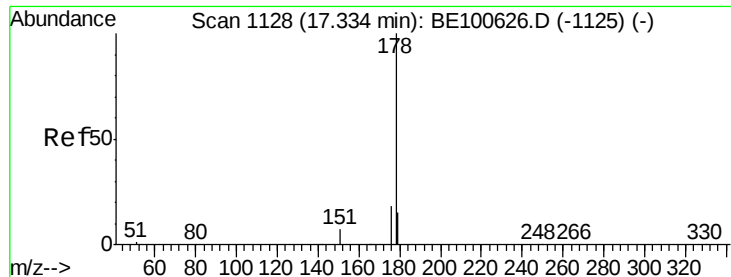
#23
Phenanthrene
Concen: 4.602 ng
RT: 17.24 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:178 Resp: 368682
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.5 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

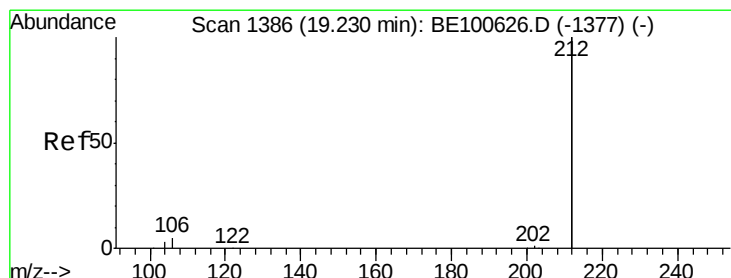
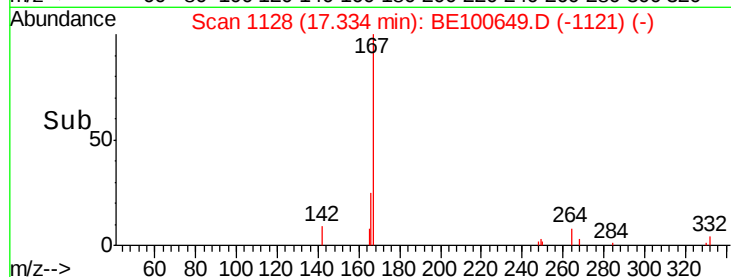
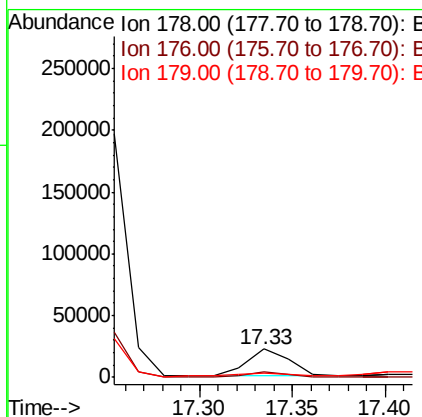
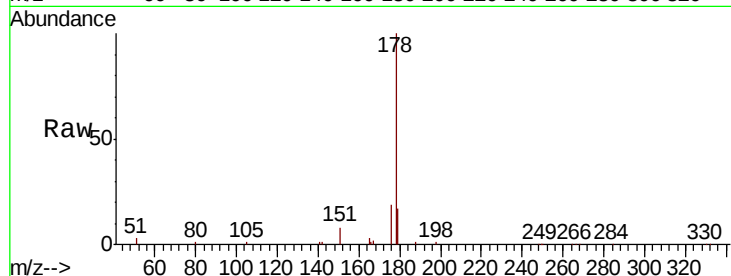




#24
 Anthracene
 Concen: 0.487 ng
 RT: 17.33 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

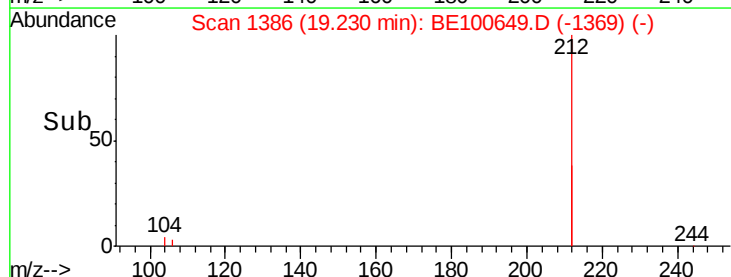
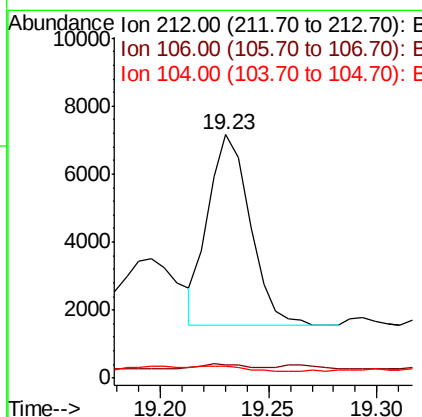
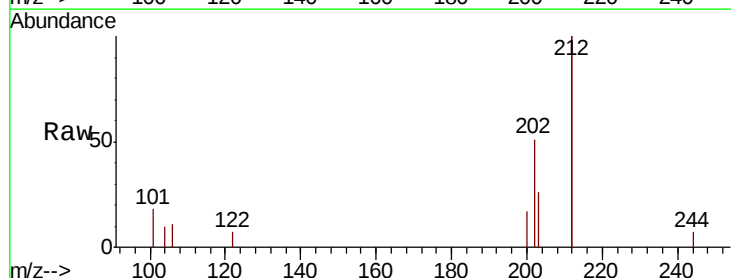
Instrument :
 BNA_E
 ClientSampleId :

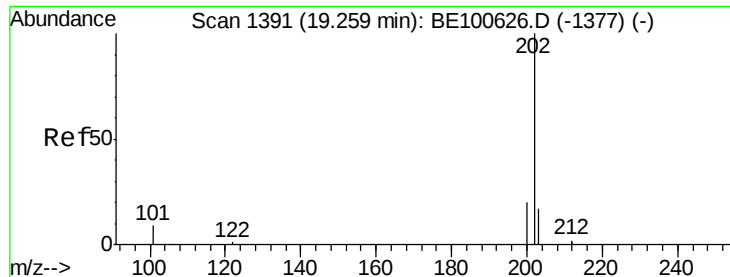
Tot Ion:178 Resp: 36210
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.5 21.7
 179 14.2 12.4 18.6



#25
 Fluoranthene-d10
 Concen: 0.020 ng
 RT: 19.23 min Scan# 1386
 Delta R.T. -0.00 min
 Lab File: BE100649.D
 Acq: 15 Oct 2019 14:47

Tgt Ion:212 Resp: 7554
 Ion Ratio Lower Upper
 212 100
 106 2.8 2.2 3.4
 104 2.7 1.3 1.9#

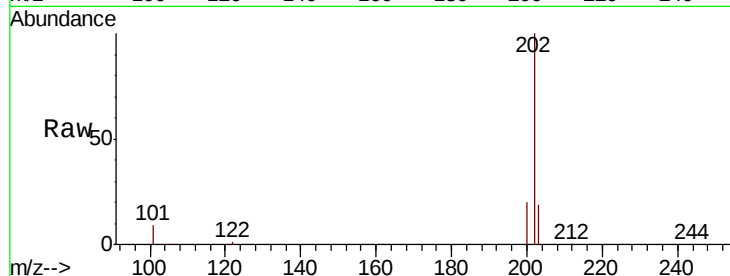




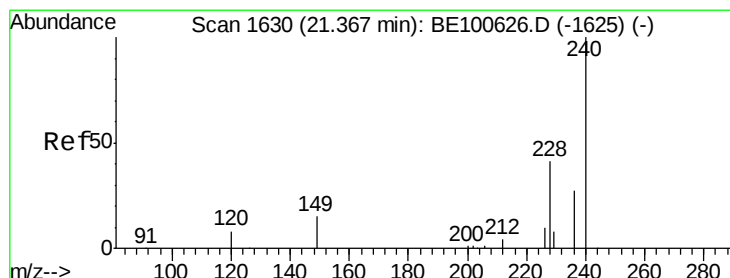
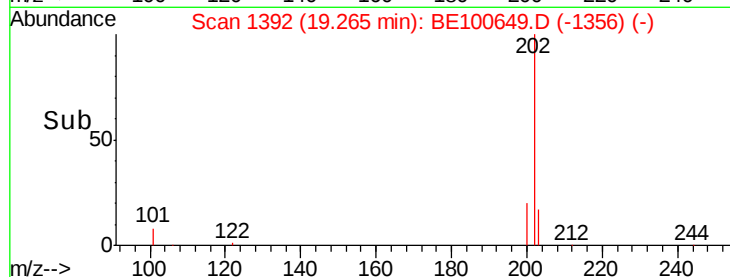
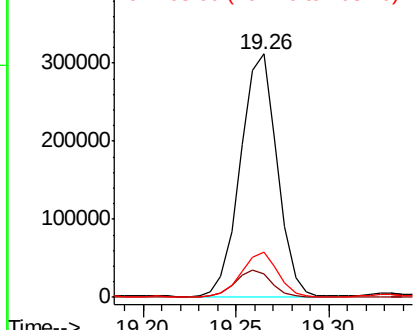
#26
Fluoranthene
Concen: 4.071 ng
RT: 19.26 min Scan# 1392
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 425722
Ion Ratio Lower Upper
202 100
101 10.9 8.4 12.6
203 18.0 13.8 20.6

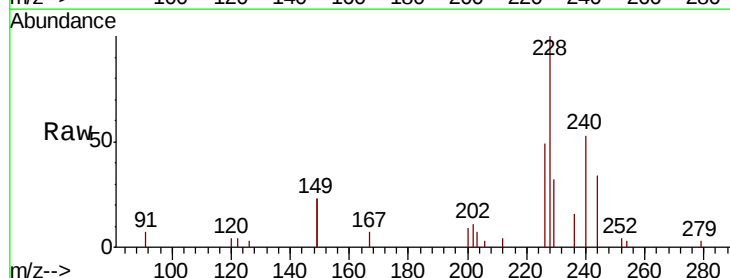


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

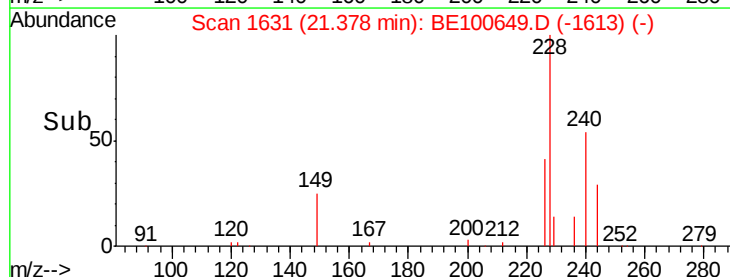
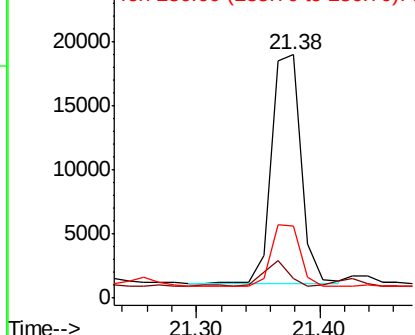


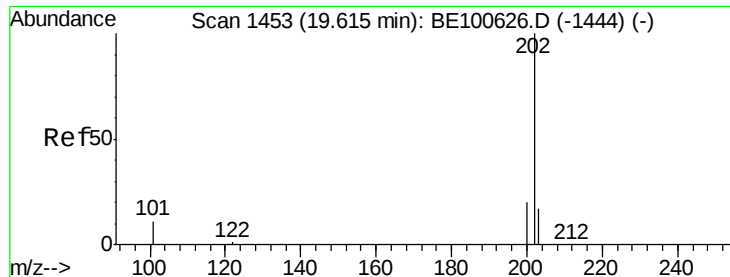
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:240 Resp: 30187
Ion Ratio Lower Upper
240 100
120 7.9 7.4 11.0
236 29.5 21.7 32.5



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

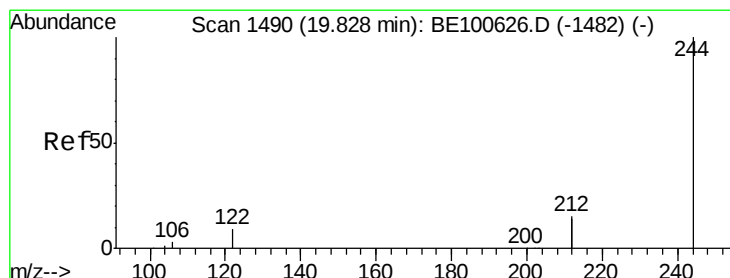
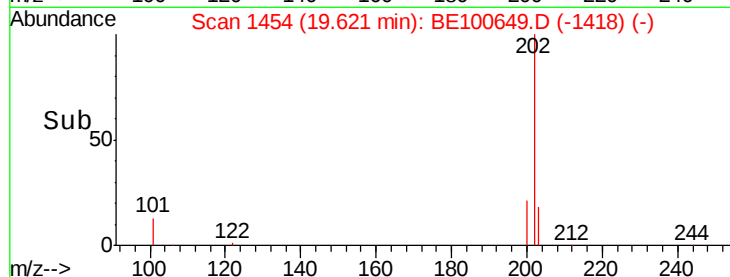
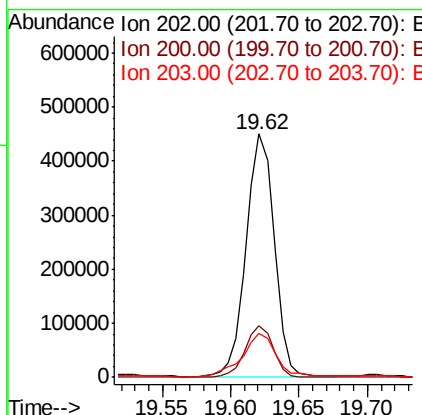
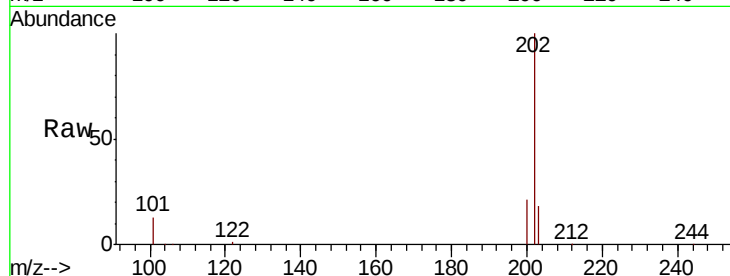




#28
Pvrene
Concen: 7.560 ng
RT: 19.62 min Scan# 1454
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

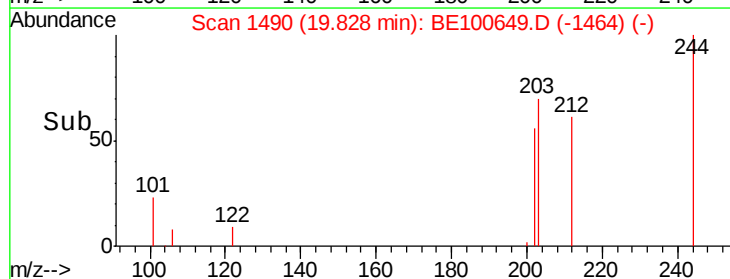
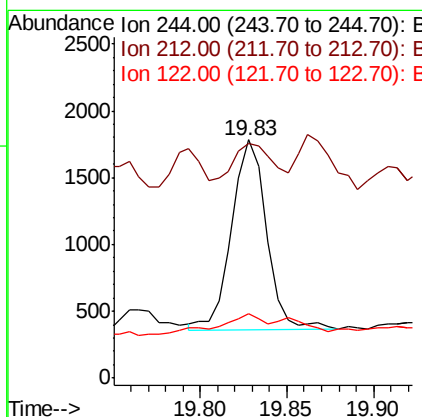
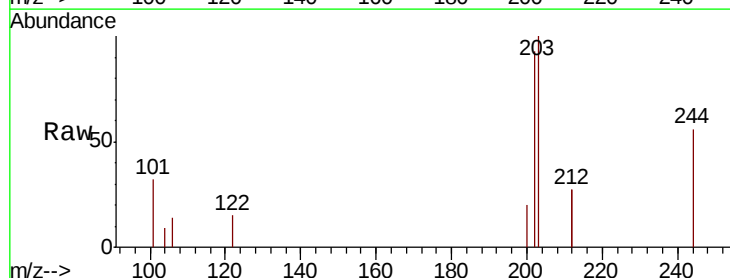
Instrument :
BNA_E
ClientSampleId :

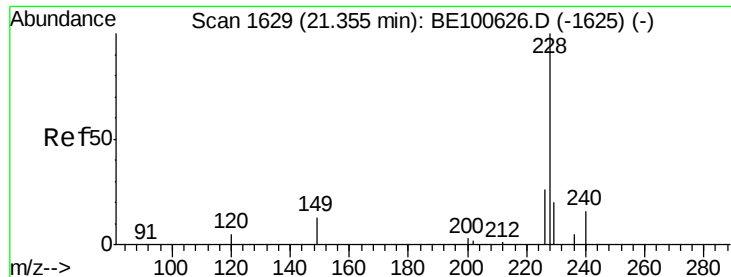
Tot Ion:202 Resp: 637607
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 21.3 13.9 20.9#



#29
Terphenyl-d14
Concen: 0.031 ng
RT: 19.83 min Scan# 1490
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:244 Resp: 2019
Ion Ratio Lower Upper
244 100
212 98.4 23.9 35.9#
122 27.0 7.7 11.5#

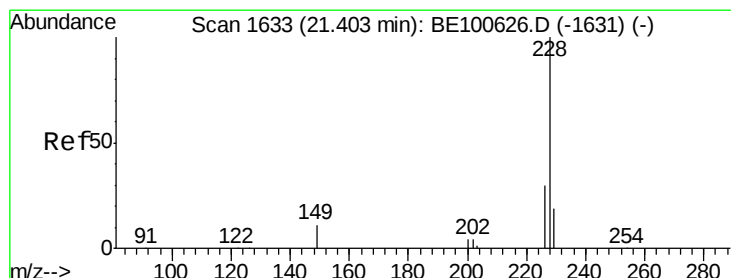
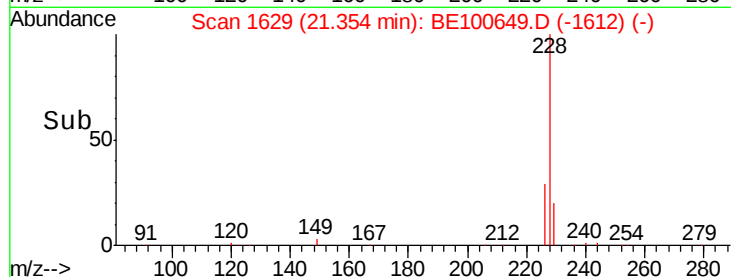
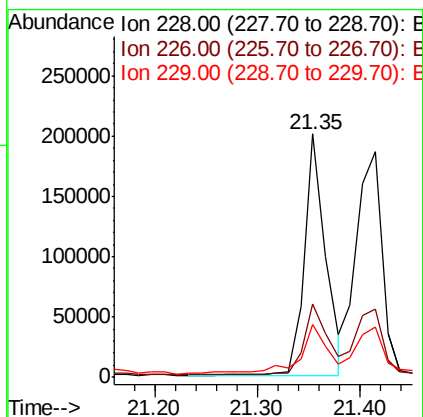
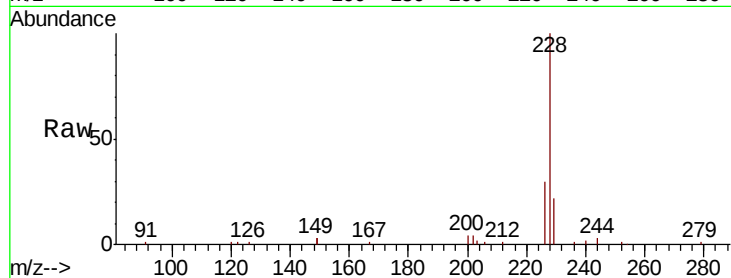




#30
Benzo(a)anthracene
Concen: 2.917 ng
RT: 21.35 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

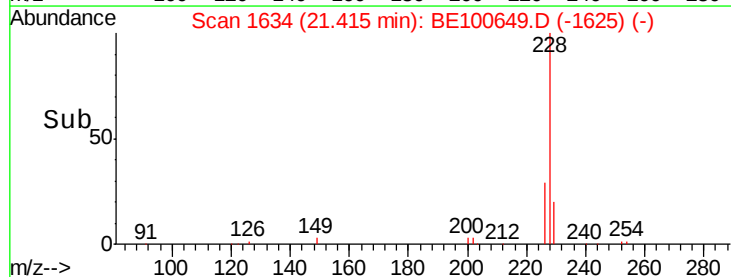
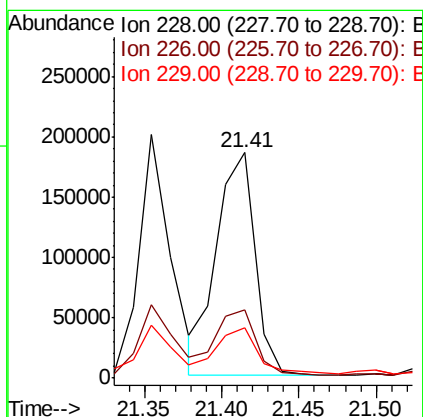
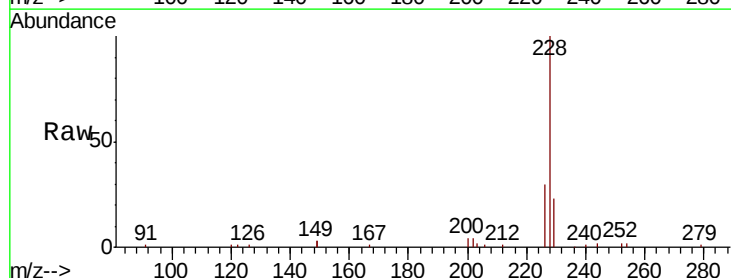
Instrument :
BNA_E
ClientSampled :

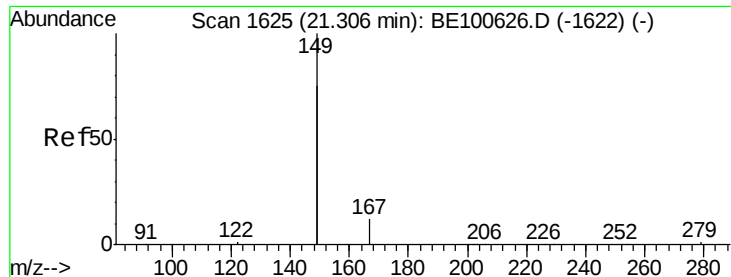
Tot Ion:228 Resp: 287259
Ion Ratio Lower Upper
228 100
226 30.3 21.0 31.6
229 22.0 15.8 23.8



#31
Chrysene
Concen: 3.233 ng
RT: 21.41 min Scan# 1634
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:228 Resp: 318166
Ion Ratio Lower Upper
228 100
226 30.5 24.5 36.7
229 22.6 15.6 23.4





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.052 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

ClientSampleId :

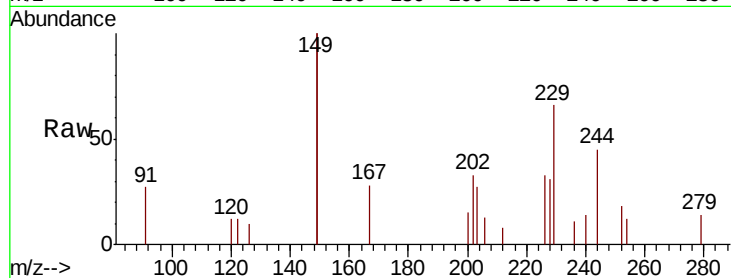
Tot Ion:149 Resp: 10764

Ion Ratio Lower Upper

149 100

167 11.8 5.4 8.2#

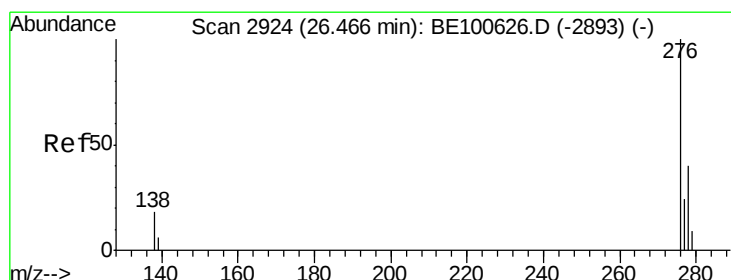
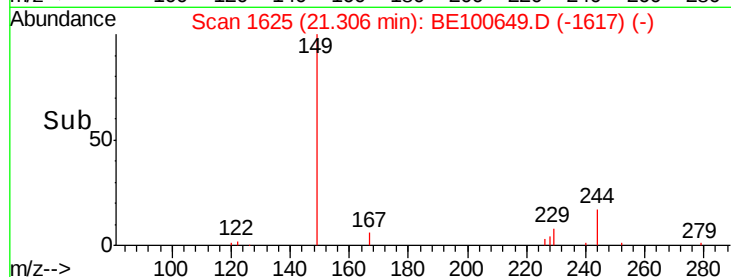
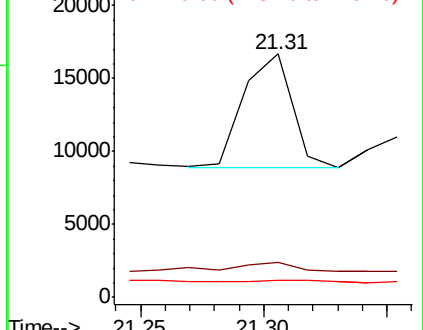
279 2.4 1.5 2.3#



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: 1.005 ng

RT: 26.48 min Scan# 2928

Delta R.T. 0.01 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

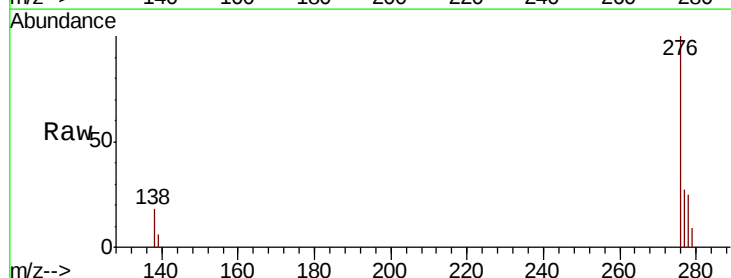
Tgt Ion:276 Resp: 121520

Ion Ratio Lower Upper

276 100

138 16.8 16.0 24.0

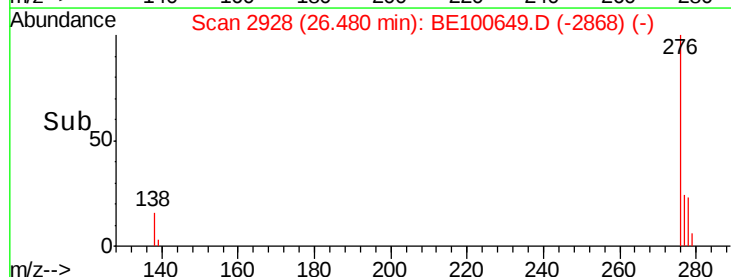
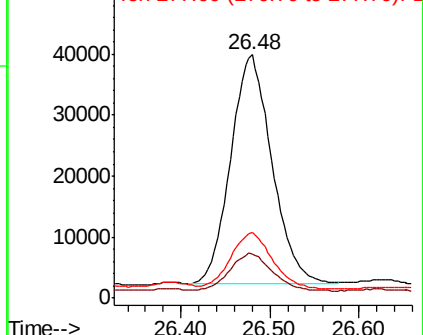
277 24.5 19.7 29.5

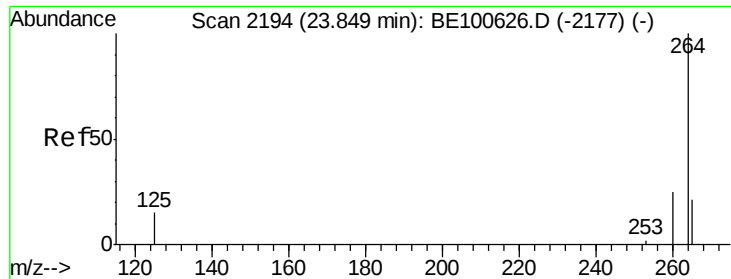


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

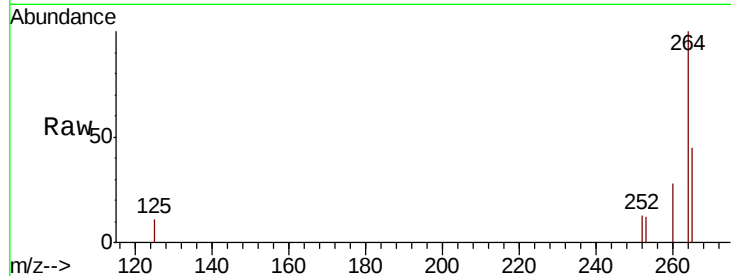




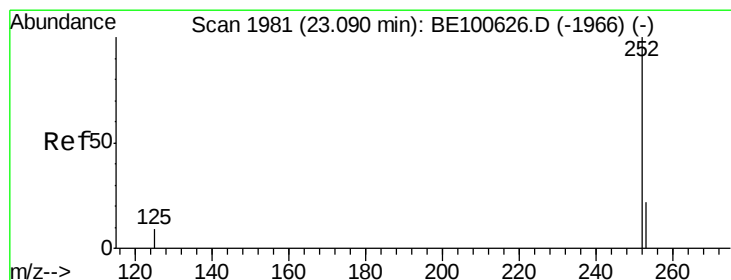
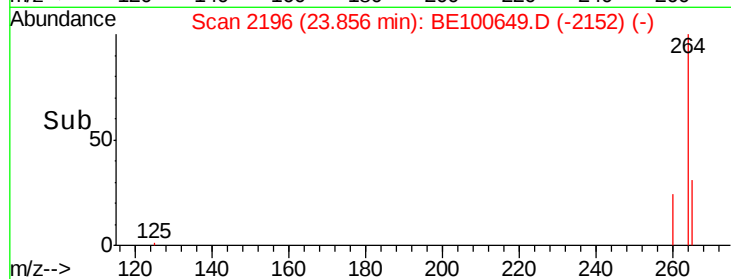
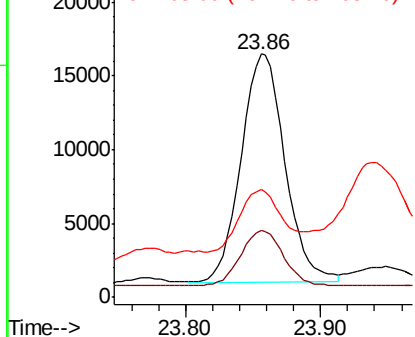
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:264 Resp: 35119
Ion Ratio Lower Upper
264 100
260 27.6 19.9 29.9
265 44.5 20.0 30.0#

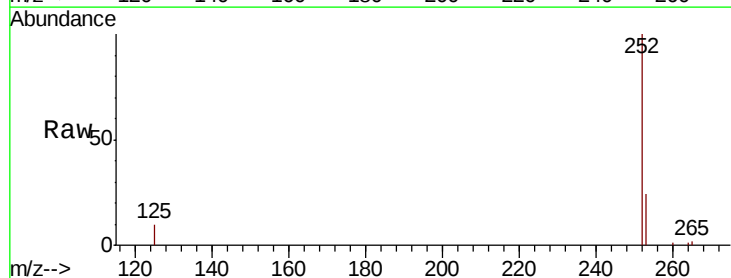


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

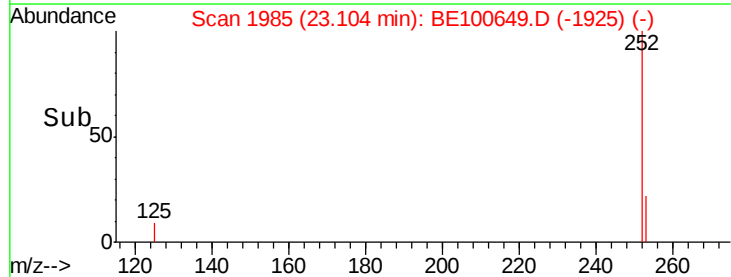
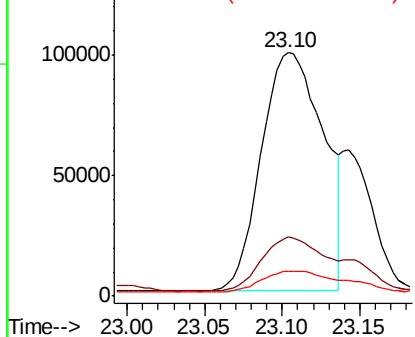


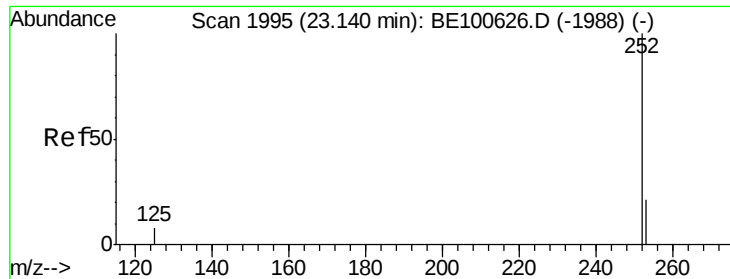
#35
Benzo(b)fluoranthene
Concen: 2.683 ng
RT: 23.10 min Scan# 1985
Delta R.T. 0.01 min
Lab File: BE100649.D
Acq: 15 Oct 2019 14:47

Tgt Ion:252 Resp: 274718
Ion Ratio Lower Upper
252 100
253 24.2 17.8 26.8
125 10.2 7.6 11.4



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





#36

Benzo(k)fluoranthene

Concen: 2.608 ng

RT: 23.10 min Scan# 1985

Delta R.T. -0.04 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

ClientSampleId :

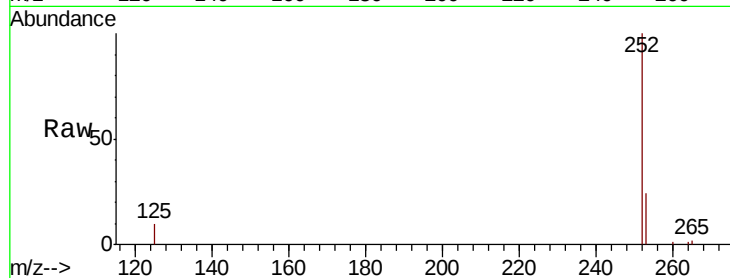
Tot Ion:252 Resp: 274718

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.6

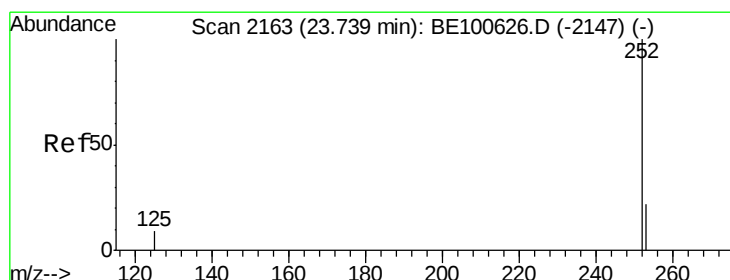
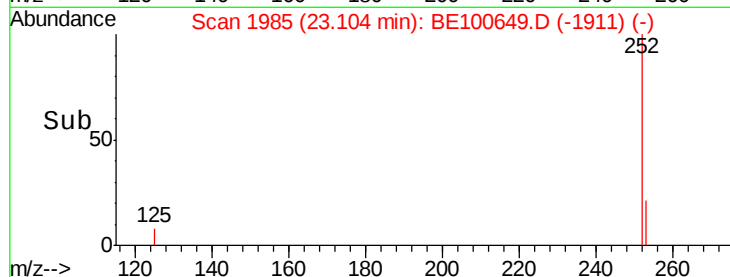
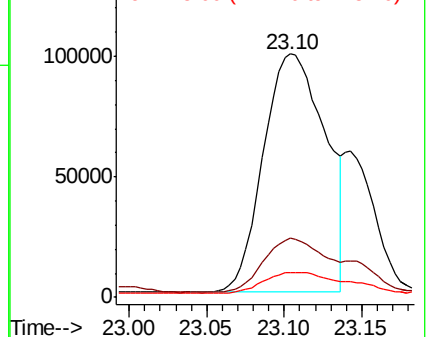
125 10.2 7.6 11.4



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



#37

Benzo(a)pyrene

Concen: 2.367 ng

RT: 23.75 min Scan# 2165

Delta R.T. 0.01 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

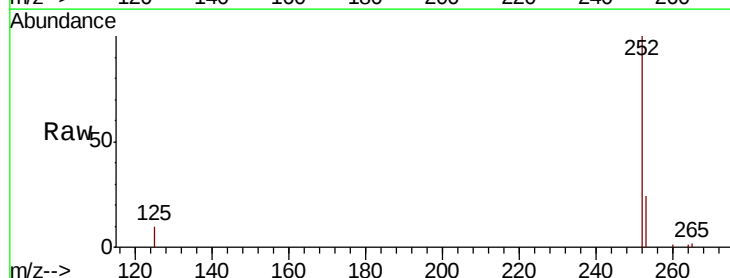
Tgt Ion:252 Resp: 225581

Ion Ratio Lower Upper

252 100

253 23.9 18.2 27.2

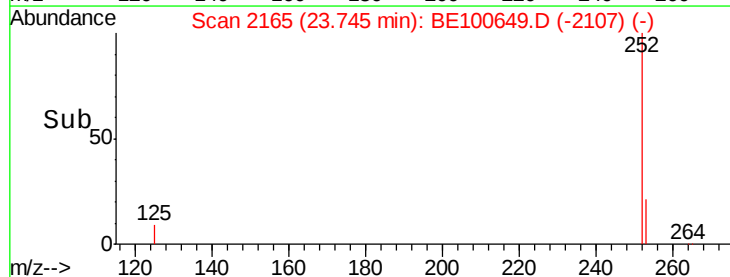
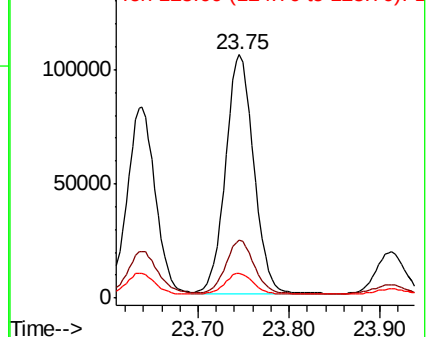
125 10.2 8.1 12.1

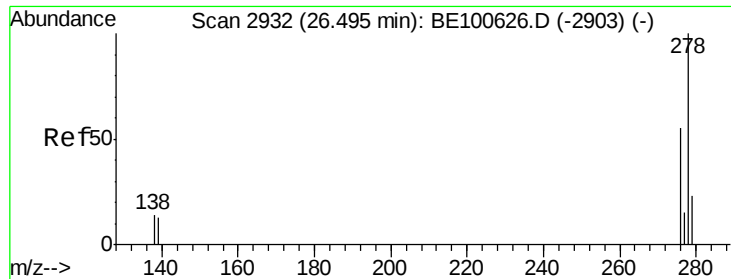


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.384 ng

RT: 26.49 min Scan# 2932

Delta R.T. -0.00 min

Lab File: BE100649.D

Acq: 15 Oct 2019 14:47

Instrument :

BNA_E

ClientSampleId :

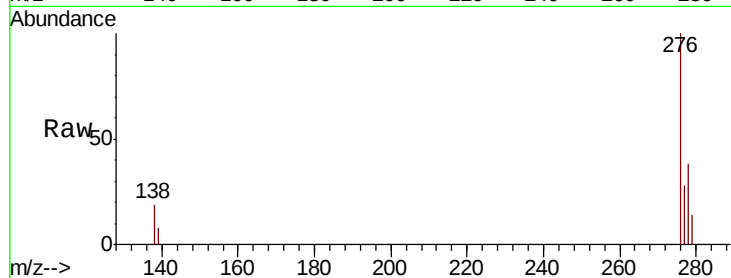
Tot Ion:278 Resp: 37835

Ion Ratio Lower Upper

278 100

139 19.7 11.2 16.8#

279 35.2 19.0 28.6#

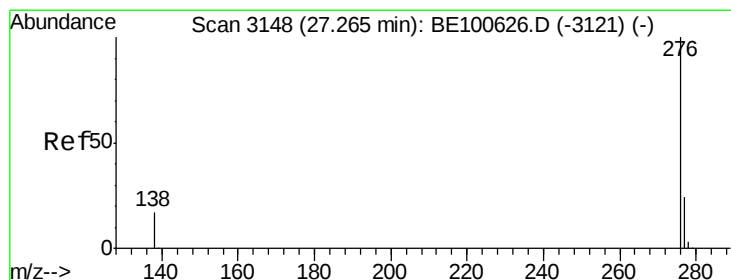
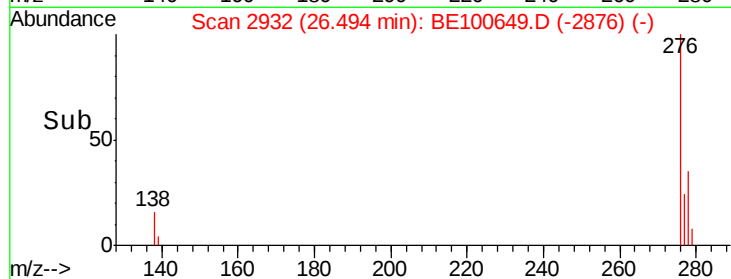
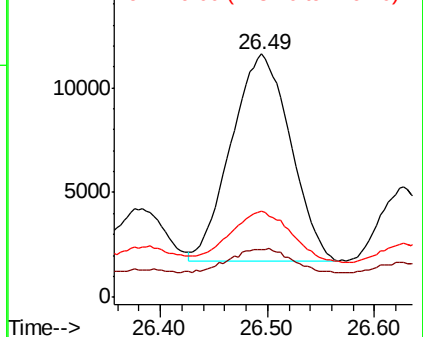


Abundance

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: 1.437 ng

RT: 27.29 min Scan# 3154

Delta R.T. 0.02 min

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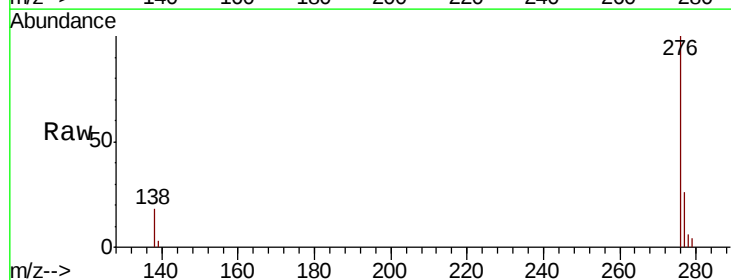
Tgt Ion:276 Resp: 142427

Ion Ratio Lower Upper

276 100

277 26.2 19.3 28.9

138 18.2 14.5 21.7



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

