

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101119\
 Data File : BE100636.D
 Acq On : 11 Oct 2019 11:26
 Operator : JU
 Sample : K4839-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 11 15:06:27 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	7.85	152	6404	0.40	ng	-0.01
7) Naphthalene-d8	10.64	136	25971	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	15404	0.40	ng	-0.01
19) Phenanthrene-d10	17.20	188	35852	0.40	ng	0.00
27) Chrysene-d12	21.37	240	45146	0.40	ng	0.00
34) Perylene-d12	23.85	264	46149	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	1661	0.08	ng	0.00
5) Phenol-d6	7.01	99	2423	0.09	ng	0.00
8) Nitrobenzene-d5	8.99	82	1402	0.09	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	3192	0.08	ng	0.00
14) 2,4,6-Tribromophenol	15.96	330	239	0.06	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	5021	0.09	ng	0.00
25) Fluoranthene-d10	19.22	212	36227	0.08	ng	0.00
29) Terphenyl-d14	19.83	244	8368	0.08	ng	0.00

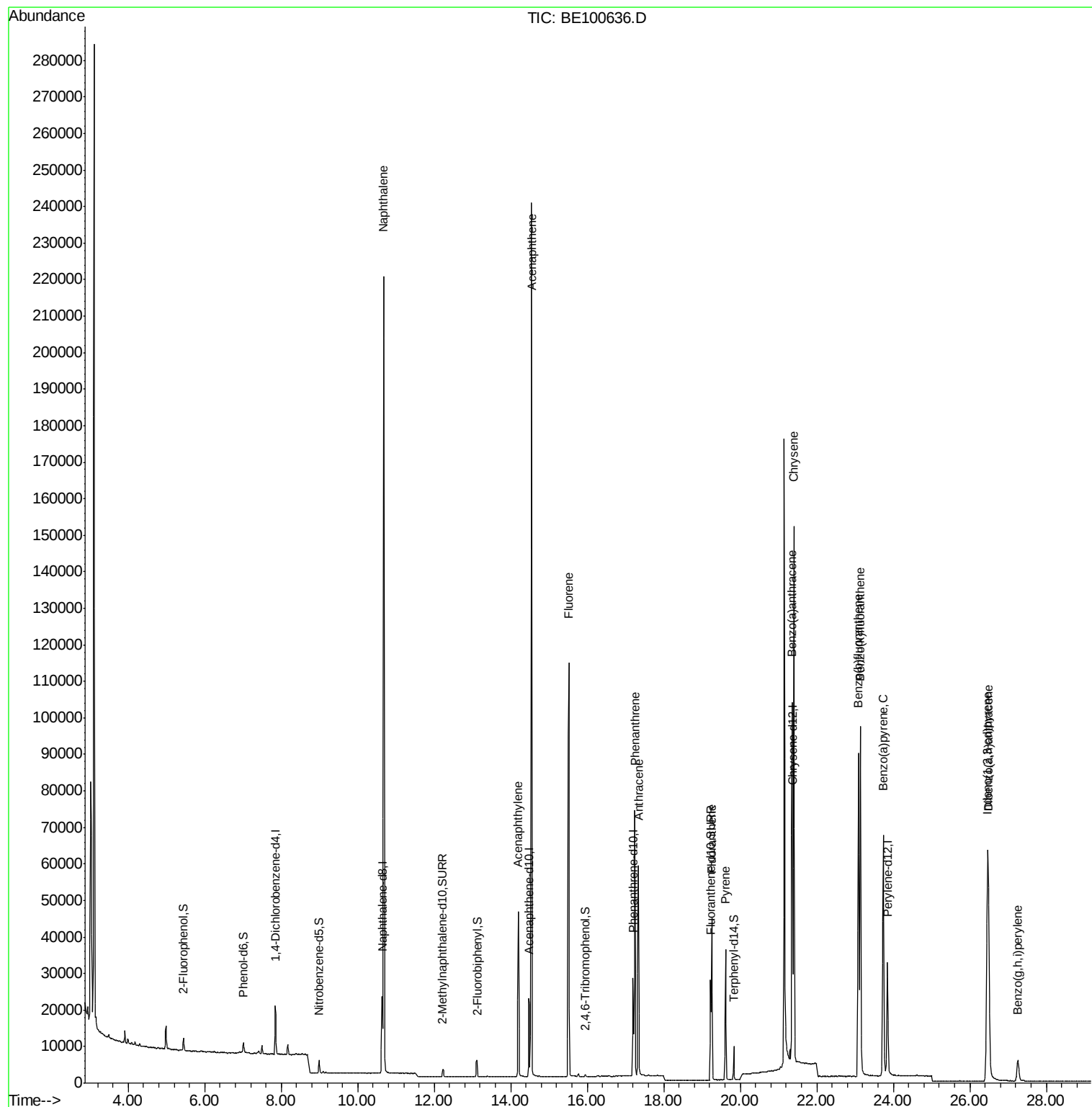
Target Compounds				Qvalue		
9) Naphthalene	10.68	128	395430	1.448	ng	99
16) Acenaphthylene	14.20	152	51168	0.772	ng	100
17) Acenaphthene	14.54	154	125939	2.940	ng	99
18) Fluorene	15.51	166	89176	1.567	ng	99
23) Phenanthrene	17.24	178	74163	0.752	ng	99
24) Anthracene	17.33	178	60555	0.662	ng	99
26) Fluoranthene	19.25	202	40798	0.317	ng	100
28) Pyrene	19.61	202	32712	0.259	ng	99
30) Benzo(a)anthracene	21.35	228	79107	0.537	ng	100
31) Chrysene	21.40	228	123198	0.837	ng	99
33) Indeno(1,2,3-cd)pyrene	26.46	276	125098	0.692	ng	99
35) Benzo(b)fluoranthene	23.09	252	123391	0.917	ng	98
36) Benzo(k)fluoranthene	23.14	252	141042	1.019	ng	99
37) Benzo(a)pyrene	23.73	252	111227	0.888	ng	98
38) Dibenzo(a,h)anthracene	26.49	278	75119	0.580	ng	99
39) Benzo(g,h,i)perylene	27.25	276	14941	0.115	ng	98

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

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QLast Update : Thu Oct 10 14:01:52 2019
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

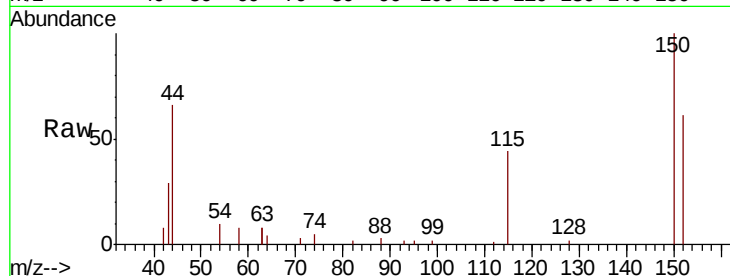
Tot Ion:152 Resp: 6404

Ion Ratio Lower Upper

152 100

150 163.1 120.7 181.1

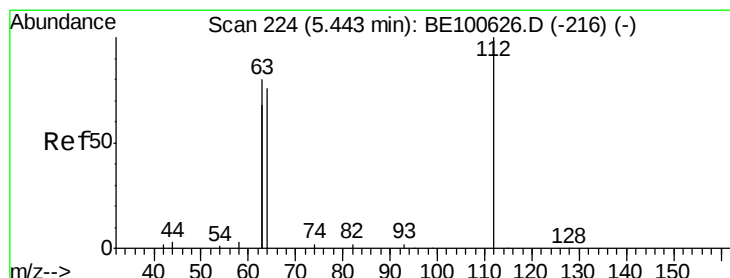
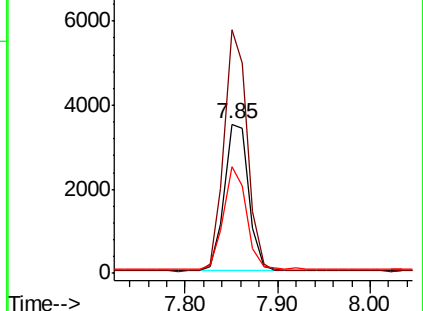
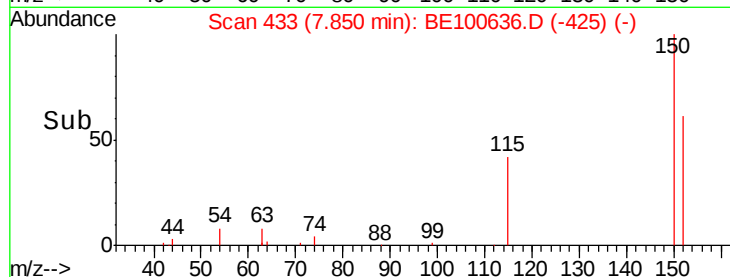
115 71.6 48.0 72.0



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



#4

2-Fluorophenol

Concen: 0.084 ng

RT: 5.44 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

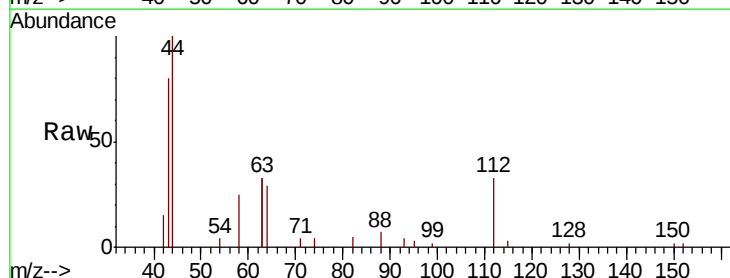
Tgt Ion:112 Resp: 1661

Ion Ratio Lower Upper

112 100

64 80.6 58.9 88.3

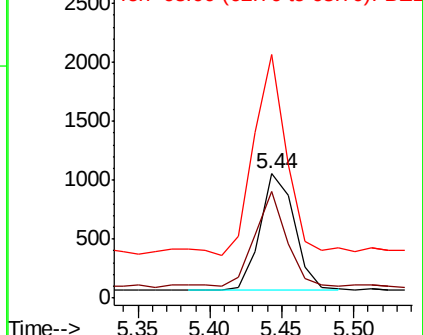
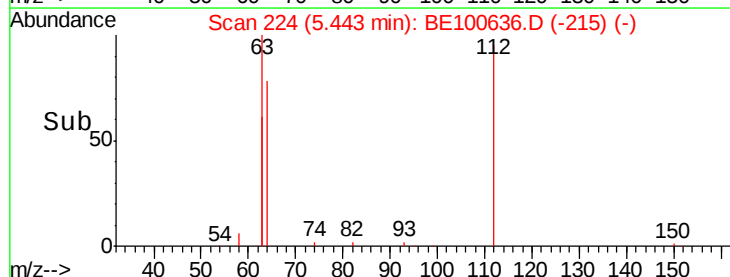
63 159.7 118.3 177.5

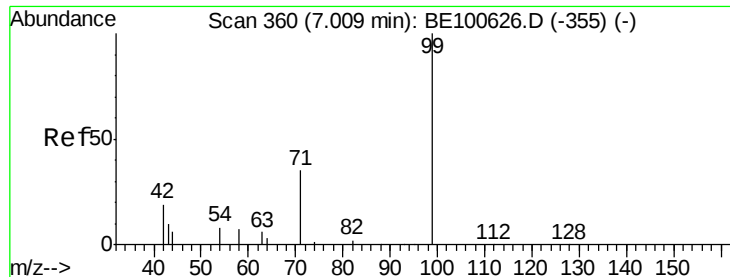


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.087 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

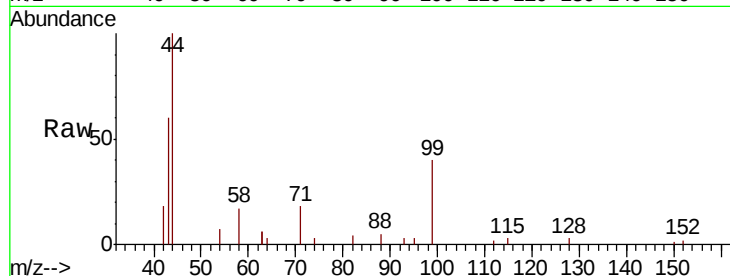
Tot Ion: 99 Resp: 2423

Ion Ratio Lower Upper

99 100

42 25.5 19.4 29.2

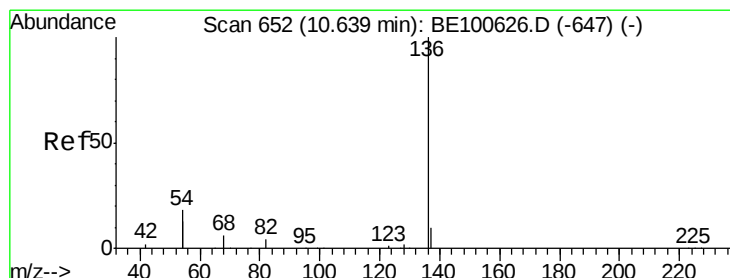
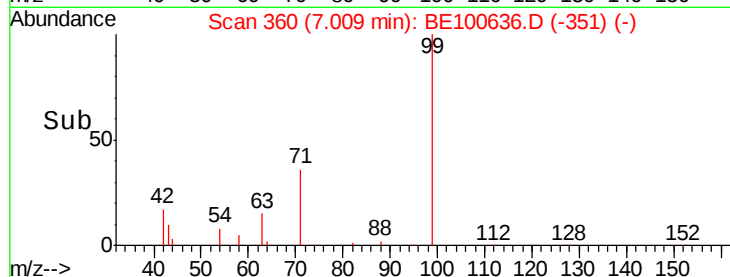
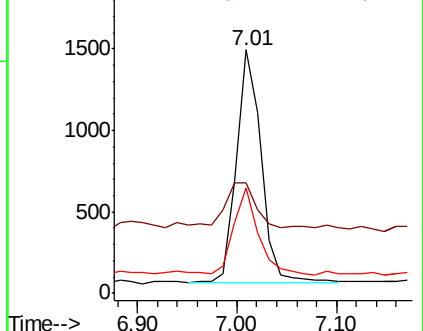
71 39.1 26.9 40.3



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: BE100636.D

Acq: 11 Oct 2019 11:26

Tgt Ion: 136 Resp: 25971

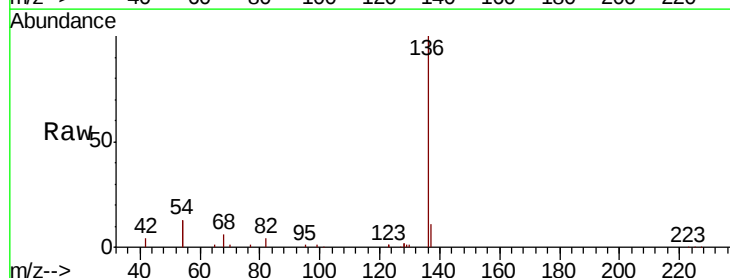
Ion Ratio Lower Upper

136 100

137 11.3 8.6 13.0

54 26.4 28.7 43.1#

68 6.0 5.9 8.9

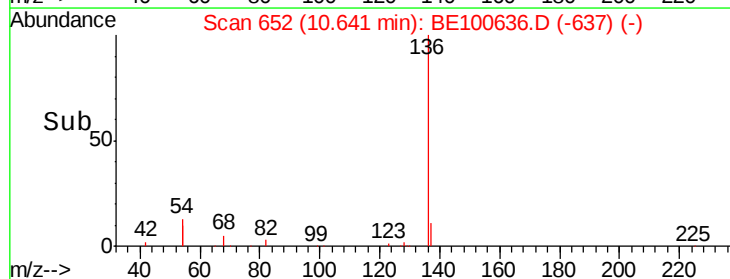
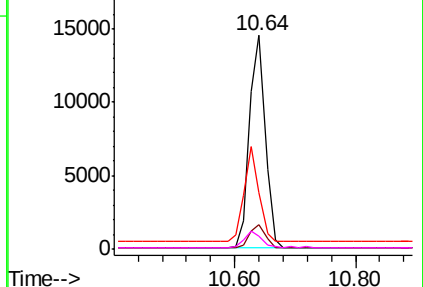


Abundance Ion 136.00 (135.70 to 136.70): E

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

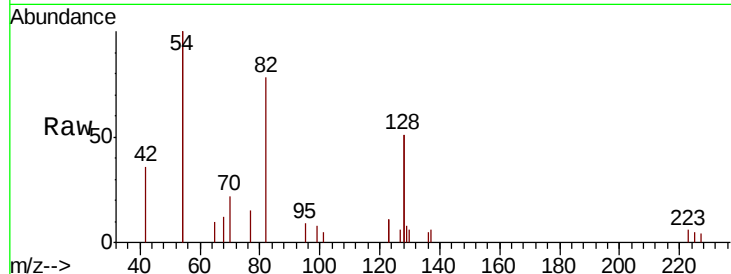




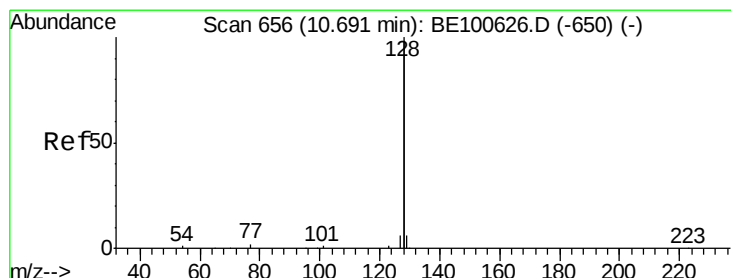
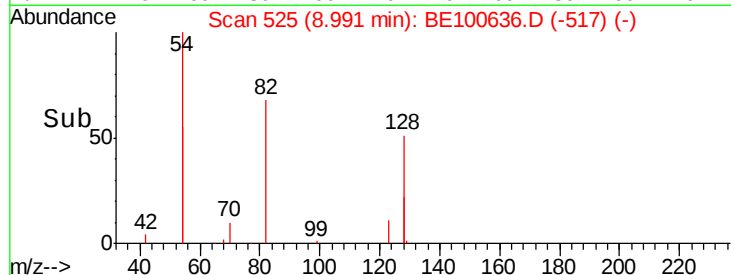
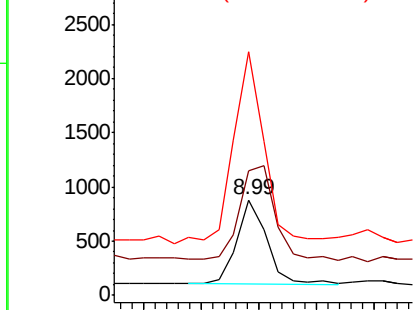
#8
 Nitrobenzene-d5
 Concen: 0.087 ng
 RT: 8.99 min Scan# 525
 Delta R.T. 0.00 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion	82	Resp	1402
Ion Ratio	Lower	Upper	
82	100		
128	130.5	90.7	136.1
54	254.9	210.9	316.3

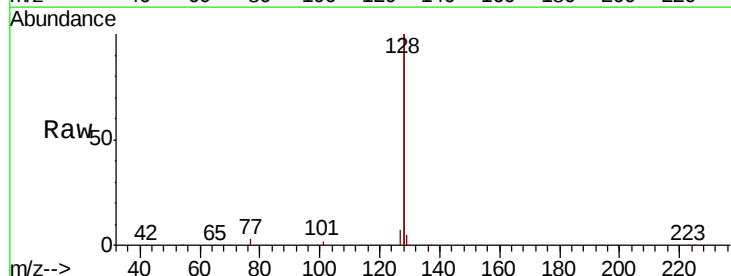


Abundance Ion 82.00 (81.70 to 82.70): BE1
 Ion 128.00 (127.70 to 128.70): BE1
 Ion 54.00 (53.70 to 54.70): BE1

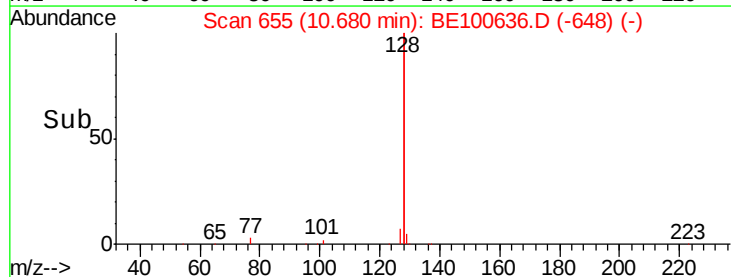
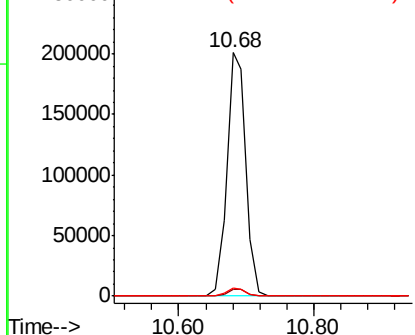


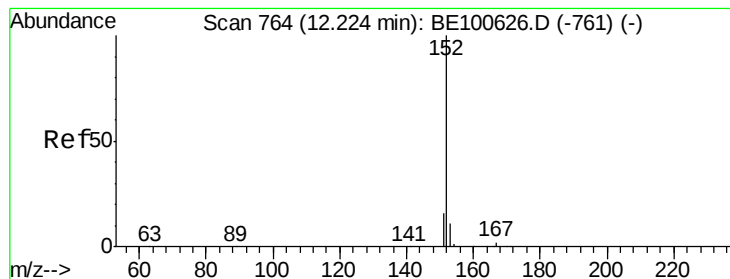
#9
 Naphthalene
 Concen: 1.448 ng
 RT: 10.68 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

Tgt Ion	128	Resp	395430
Ion Ratio	Lower	Upper	
128	100		
129	2.7	2.4	3.6
127	3.4	2.6	3.8



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

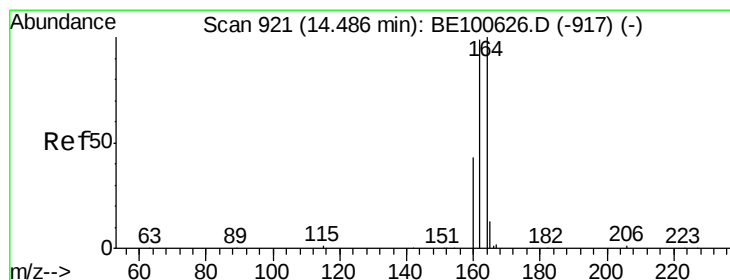
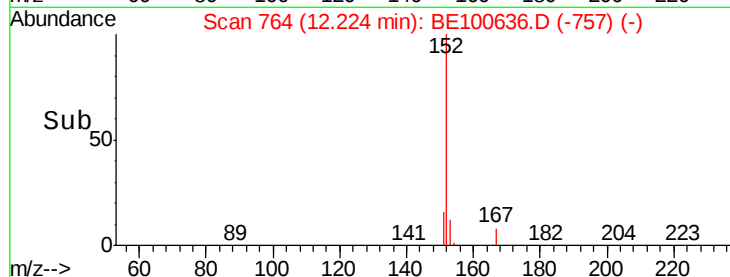
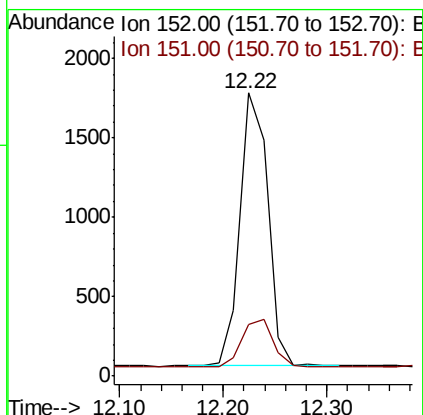
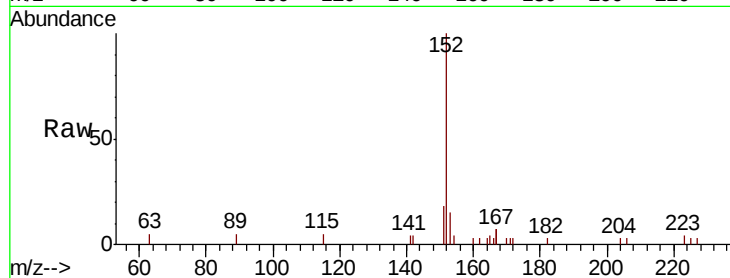




#11
 2-Methylnaphthalene-d10
 Concen: 0.078 ng
 RT: 12.22 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

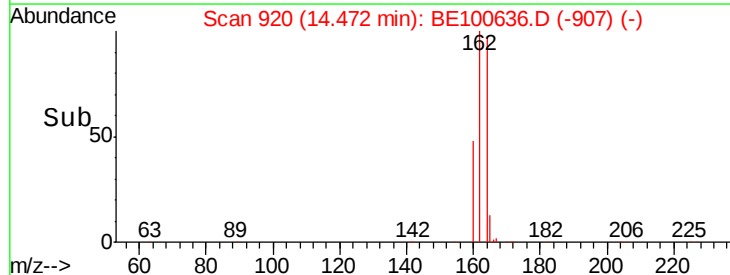
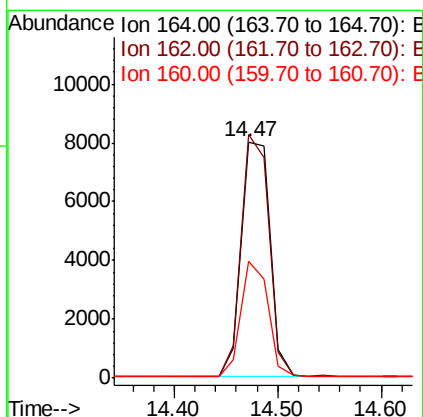
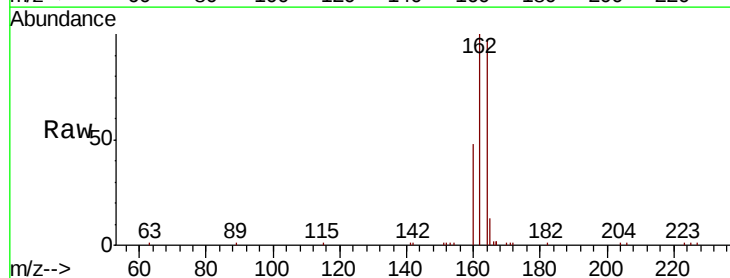
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

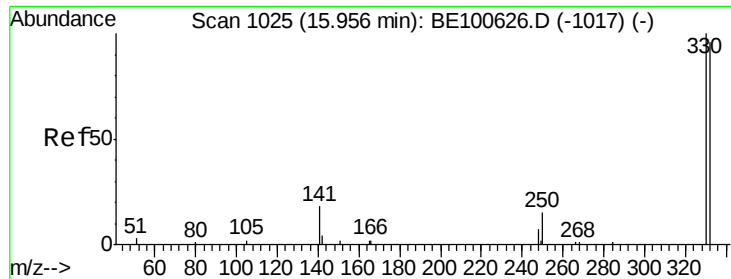
Tot Ion:152 Resp: 3192
 Ion Ratio Lower Upper
 152 100
 151 20.4 15.2 22.8



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.47 min Scan# 920
 Delta R.T. -0.01 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

Tgt Ion:164 Resp: 15404
 Ion Ratio Lower Upper
 164 100
 162 102.9 79.1 118.7
 160 49.7 34.7 52.1

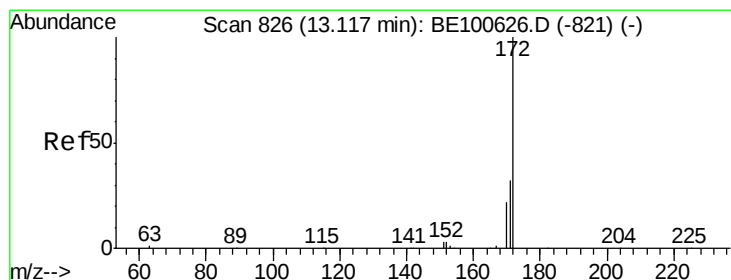
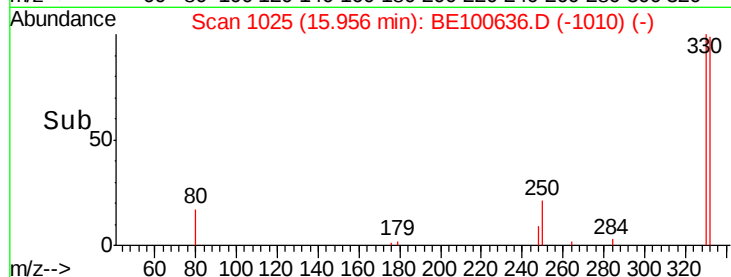
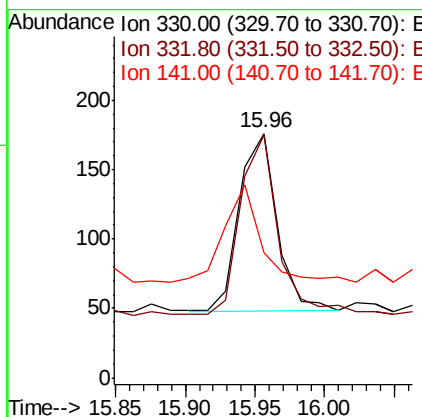
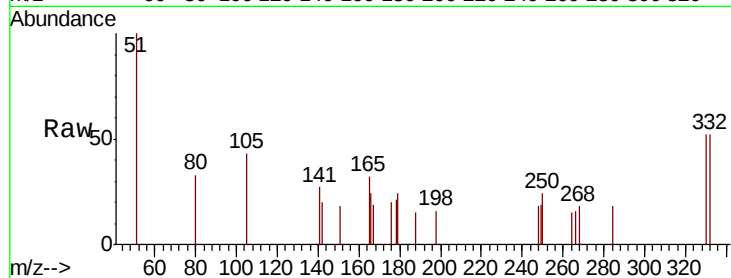




#14
 2,4,6-Tribromophenol
 Concen: 0.059 ng
 RT: 15.96 min Scan# 1025
 Delta R.T. 0.00 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

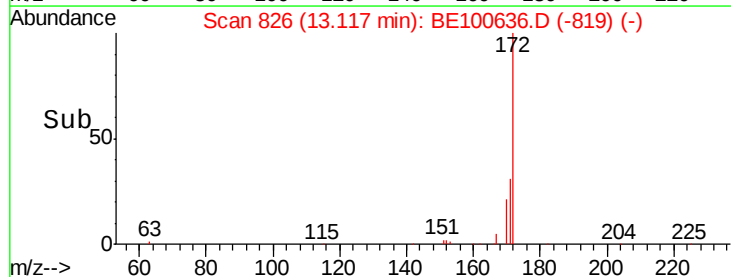
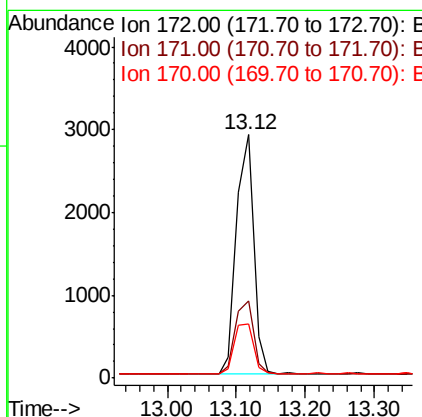
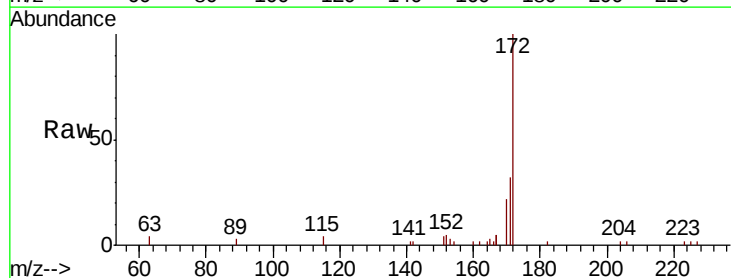
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

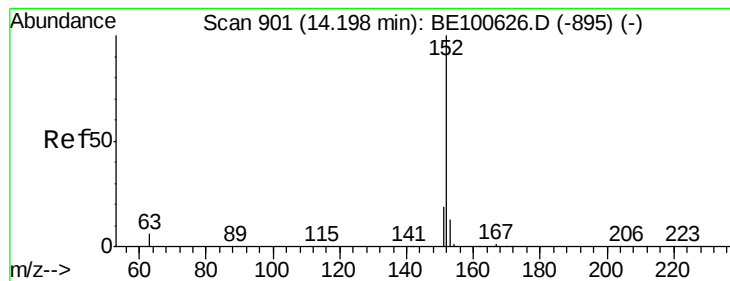
Tot Ion:330 Resp: 239
 Ion Ratio Lower Upper
 330 100
 332 103.3 75.2 112.8
 141 52.3 37.5 56.3



#15
 2-Fluorobiphenyl
 Concen: 0.089 ng
 RT: 13.12 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: BE100636.D
 Acq: 11 Oct 2019 11:26

Tgt Ion:172 Resp: 5021
 Ion Ratio Lower Upper
 172 100
 171 31.9 26.2 39.4
 170 22.1 17.5 26.3





#16

Acenaphthylene

Concen: 0.772 ng

RT: 14.20 min Scan# 901

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

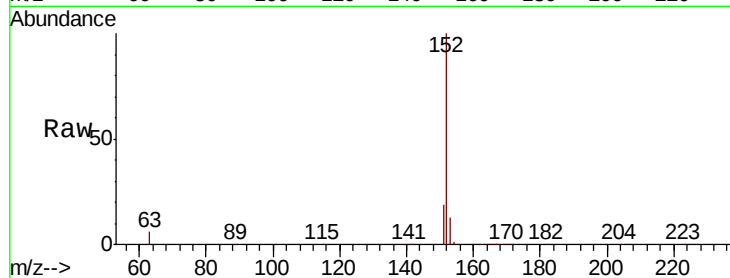
Tot Ion:152 Resp: 51168

Ion Ratio Lower Upper

152 100

151 19.4 15.6 23.4

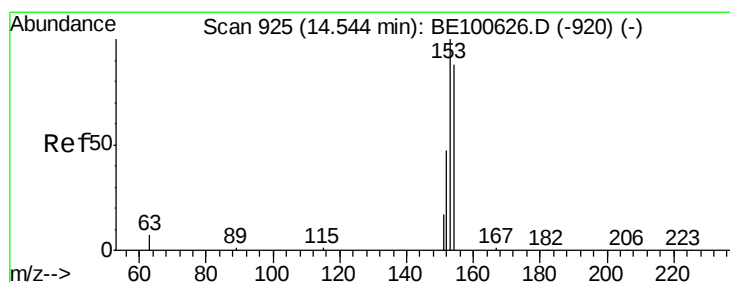
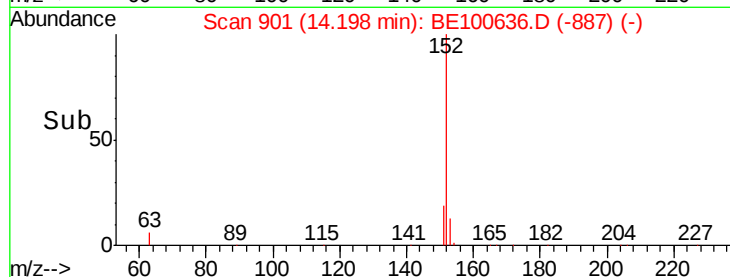
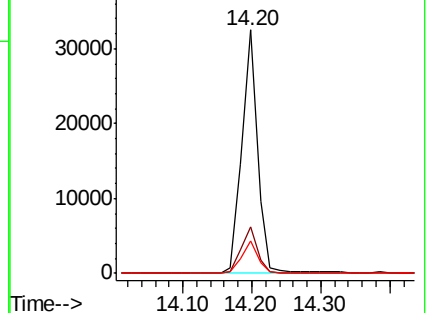
153 13.2 10.5 15.7



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: 2.940 ng

RT: 14.54 min Scan# 925

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

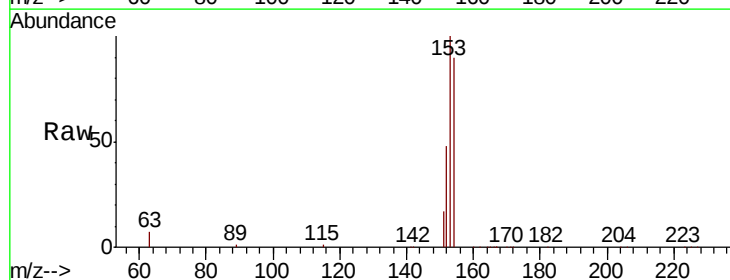
Tgt Ion:154 Resp: 125939

Ion Ratio Lower Upper

154 100

153 113.3 91.4 137.2

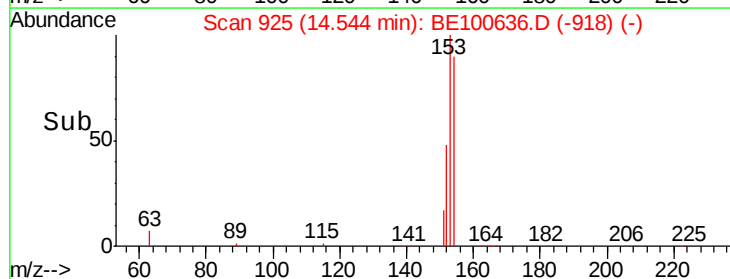
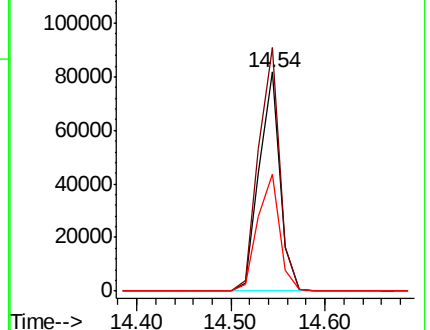
152 56.3 44.0 66.0

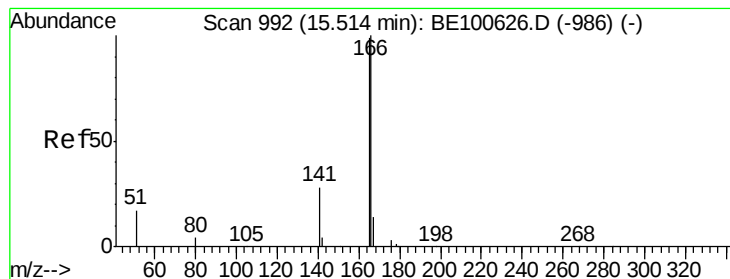


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 1.567 ng

RT: 15.51 min Scan# 992

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

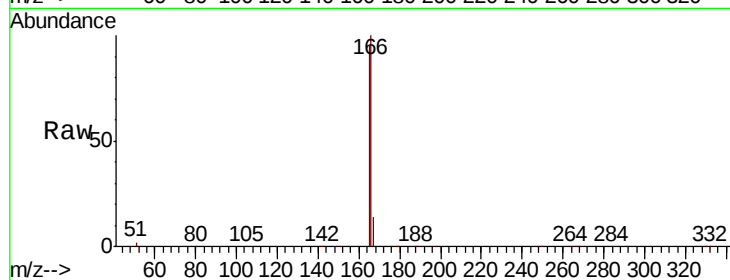
Tot Ion:166 Resp: 89176

Ion Ratio Lower Upper

166 100

165 99.3 78.9 118.3

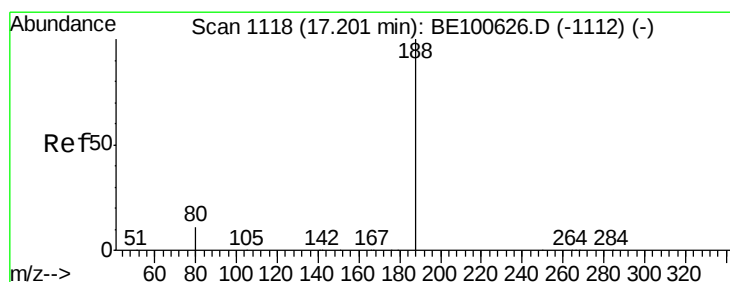
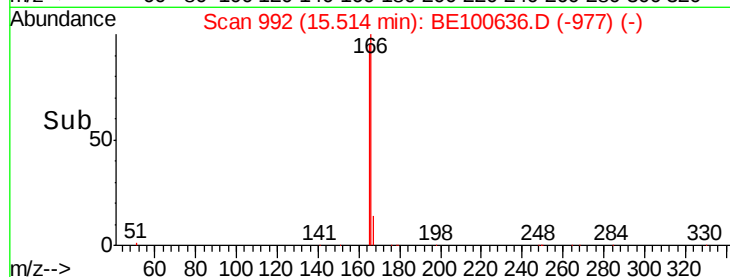
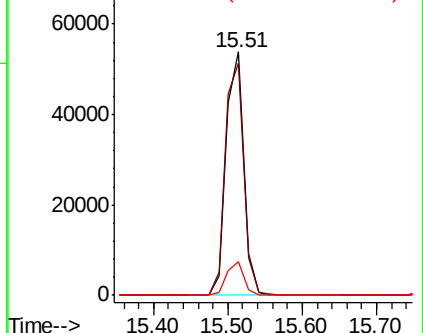
167 13.3 10.9 16.3



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: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

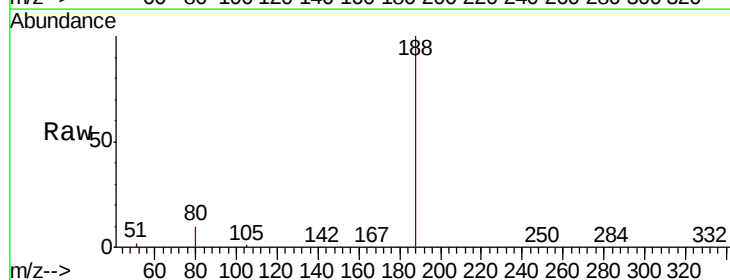
Tgt Ion:188 Resp: 35852

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

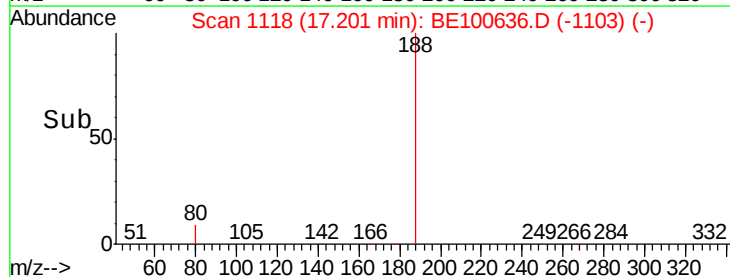
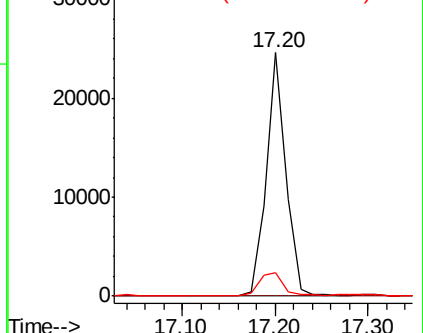
80 9.6 9.4 14.2

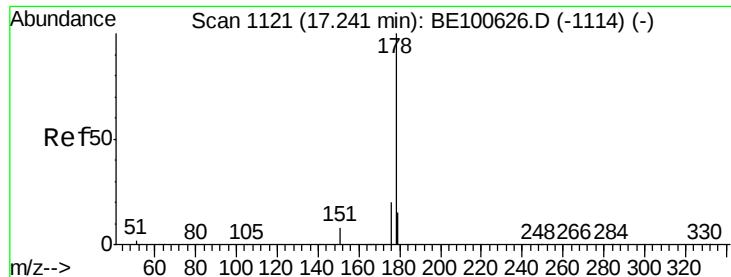


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1

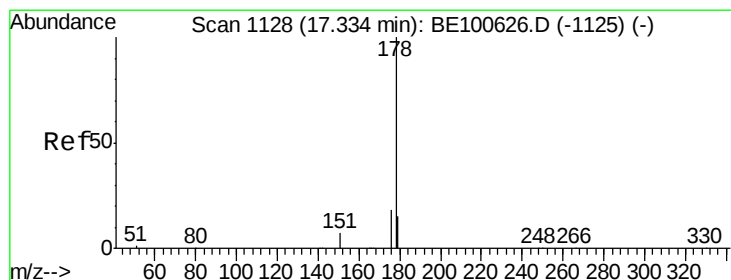
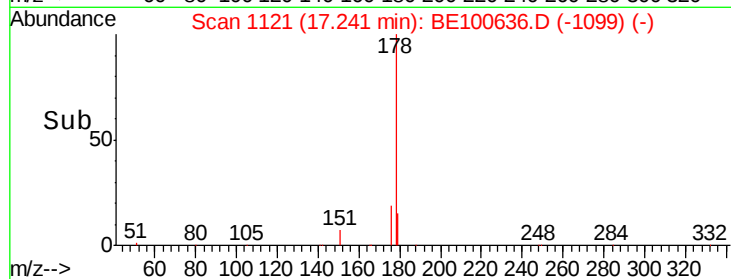
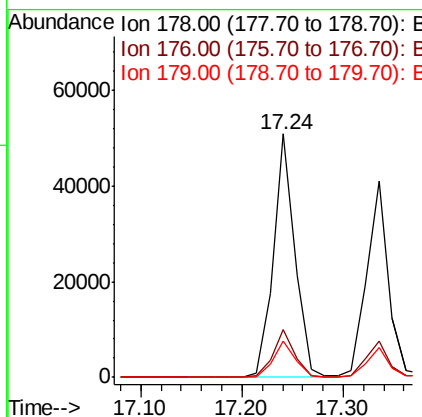
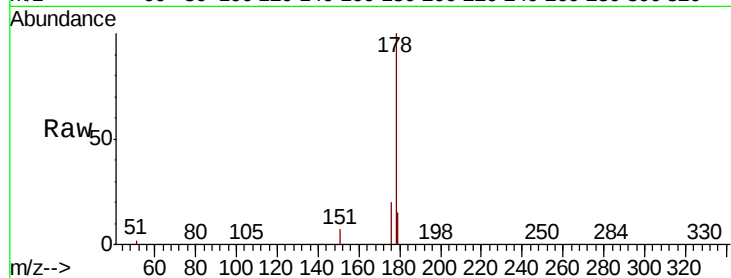




#23
Phenanthrene
Concen: 0.752 ng
RT: 17.24 min Scan# 1121
Delta R.T. 0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

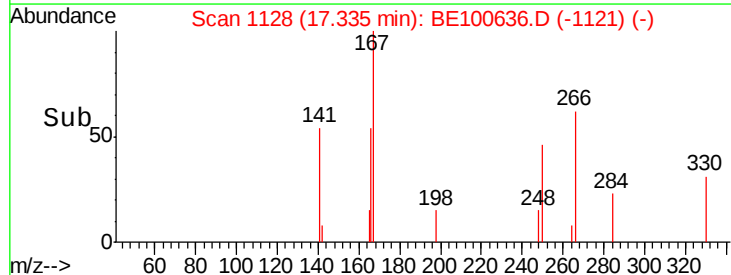
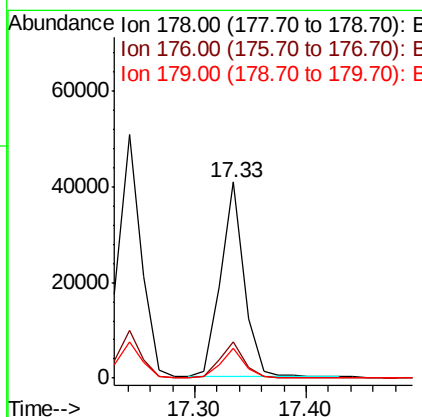
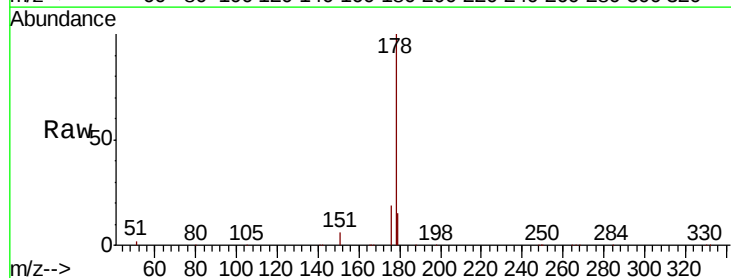
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

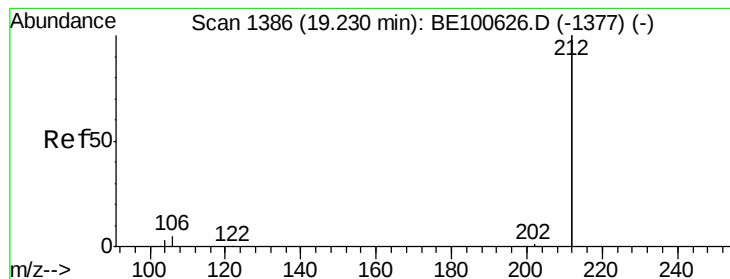
Tot Ion:178 Resp: 74163
Ion Ratio Lower Upper
178 100
176 19.1 15.6 23.4
179 15.1 12.4 18.6



#24
Anthracene
Concen: 0.662 ng
RT: 17.33 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

Tgt Ion:178 Resp: 60555
Ion Ratio Lower Upper
178 100
176 18.5 14.5 21.7
179 15.2 12.4 18.6





#25

Fluoranthene-d10

Concen: 0.078 ng

RT: 19.22 min Scan# 1385

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

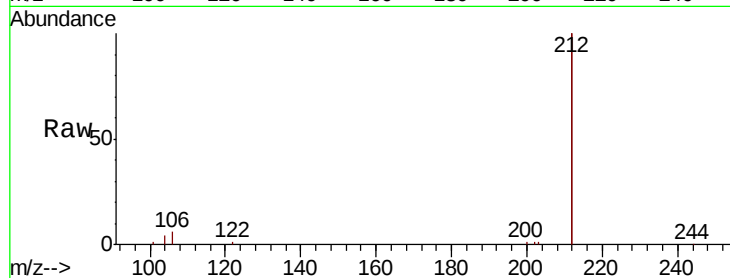
Tot Ion:212 Resp: 36227

Ion Ratio Lower Upper

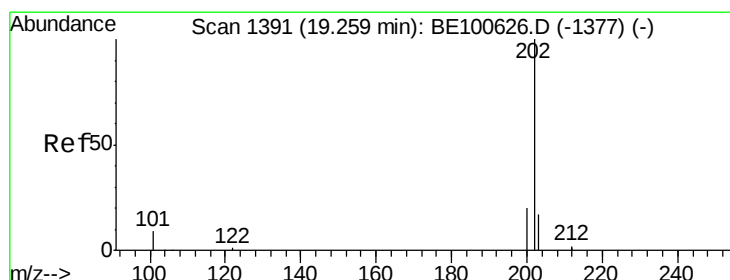
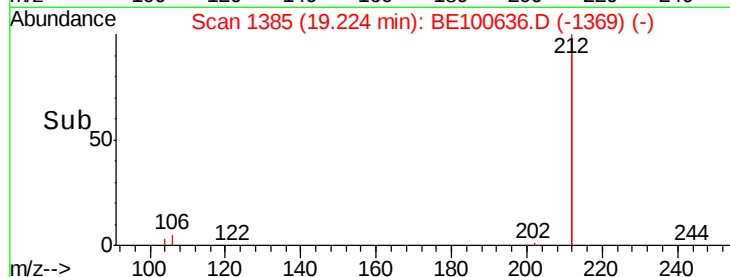
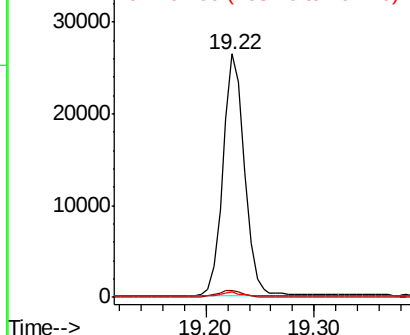
212 100

106 2.9 2.2 3.4

104 1.6 1.3 1.9



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: 0.317 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

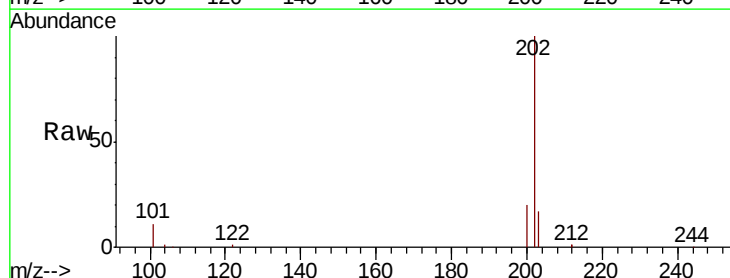
Tgt Ion:202 Resp: 40798

Ion Ratio Lower Upper

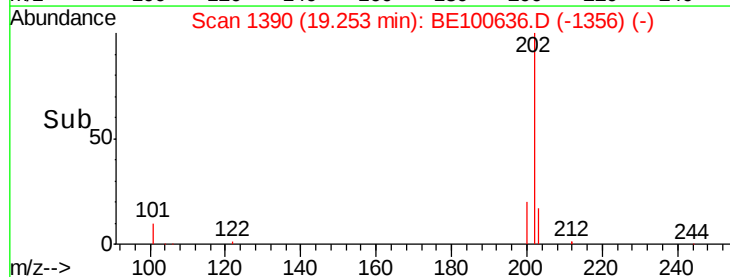
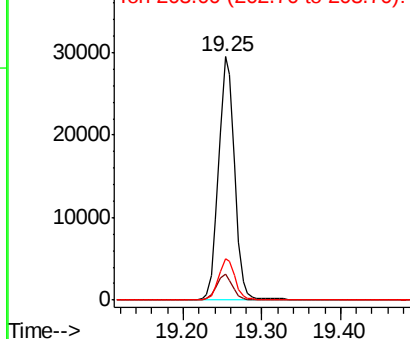
202 100

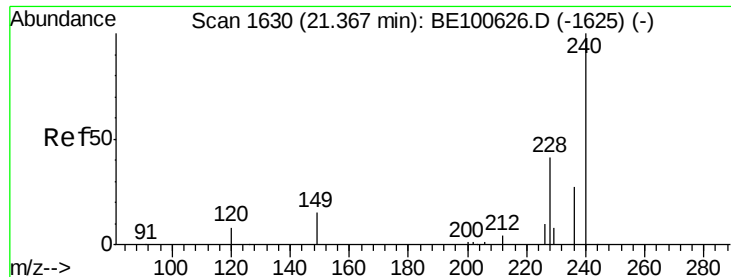
101 10.4 8.4 12.6

203 17.1 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

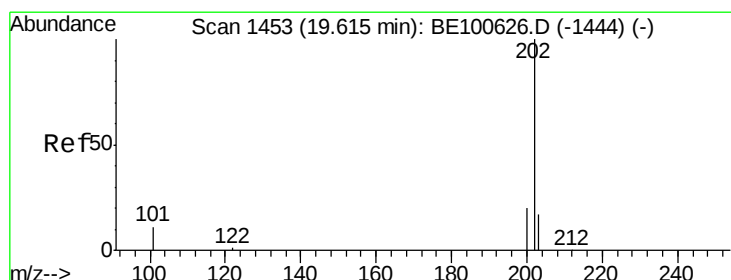
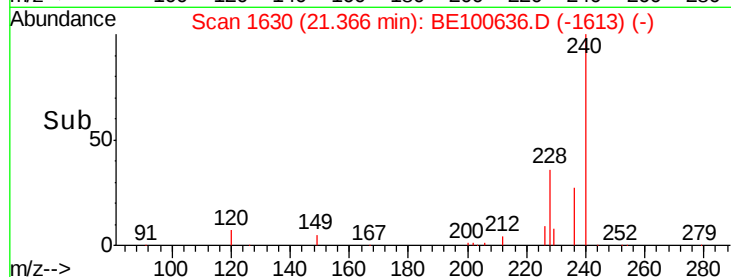
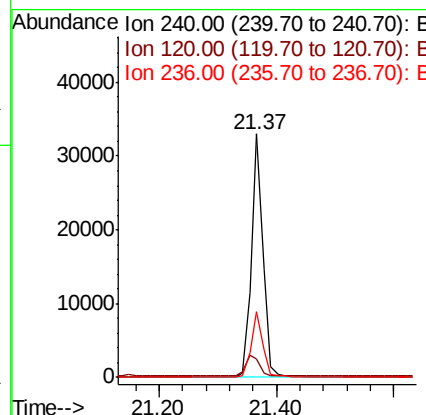
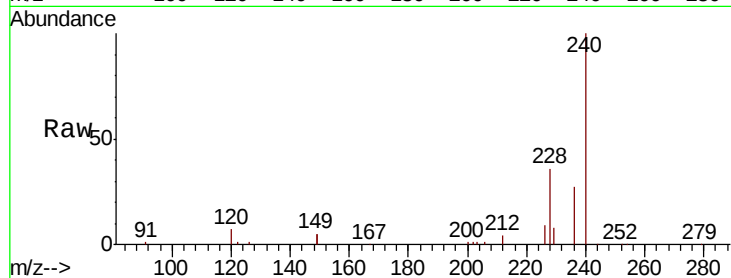




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. -0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

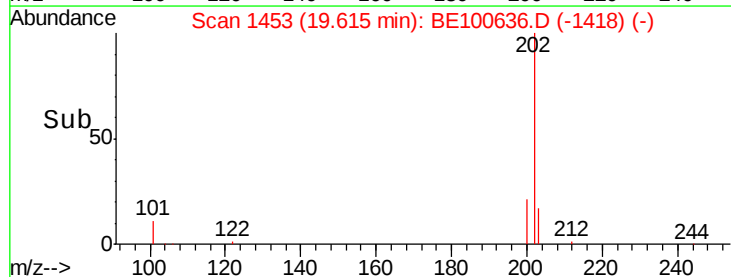
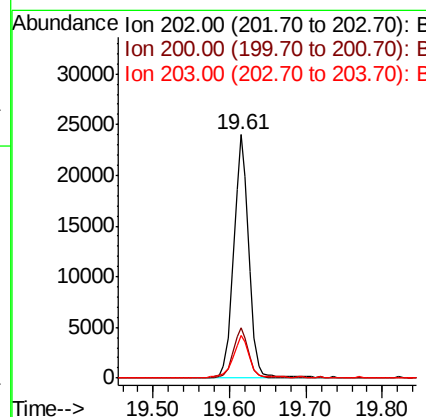
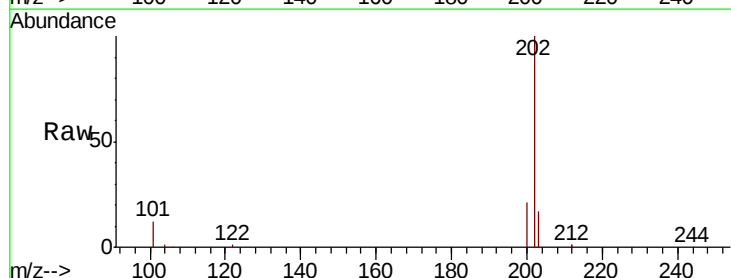
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

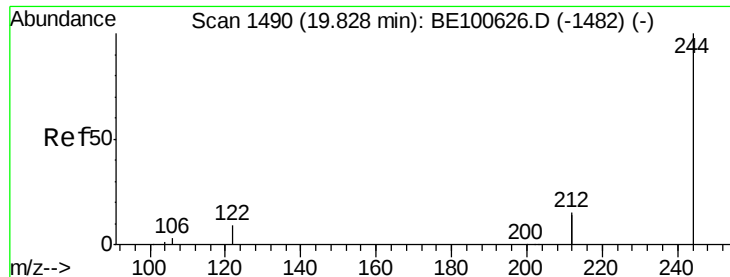
Tot Ion:240 Resp: 45146
Ion Ratio Lower Upper
240 100
120 7.5 7.4 11.0
236 27.2 21.7 32.5



#28
Pyrene
Concen: 0.259 ng
RT: 19.61 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

Tgt Ion:202 Resp: 32712
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 17.7 13.9 20.9





#29

Terphenyl-d14

Concen: 0.085 ng

RT: 19.83 min Scan# 1490

Delta R.T. -0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

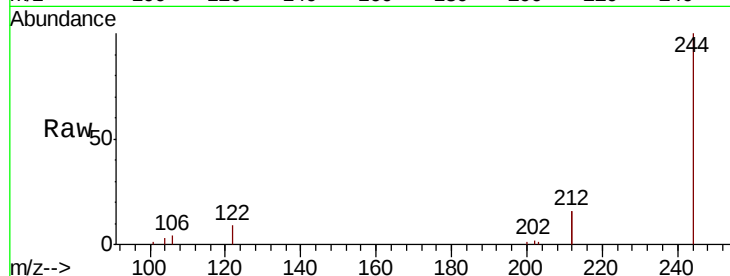
Tot Ion:244 Resp: 8368

Ion Ratio Lower Upper

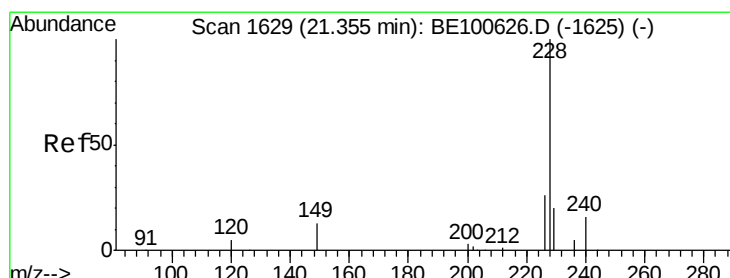
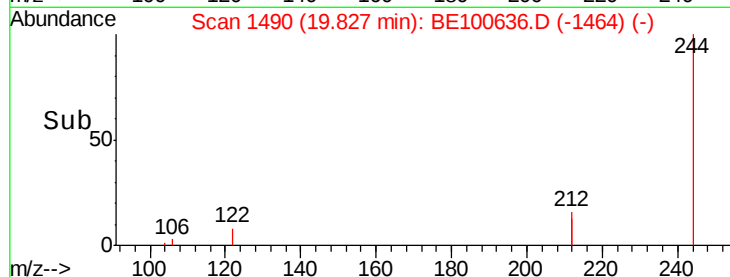
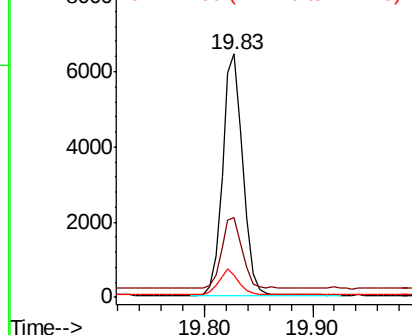
244 100

212 32.7 23.9 35.9

122 8.9 7.7 11.5



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: 0.537 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

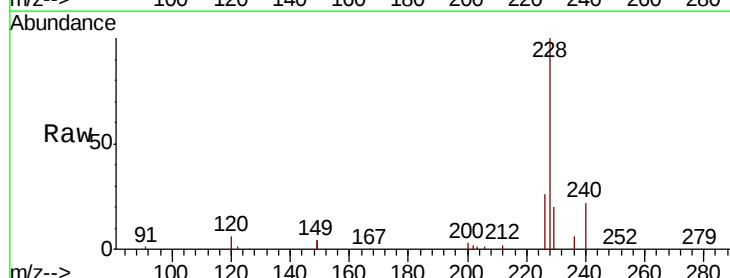
Tgt Ion:228 Resp: 79107

Ion Ratio Lower Upper

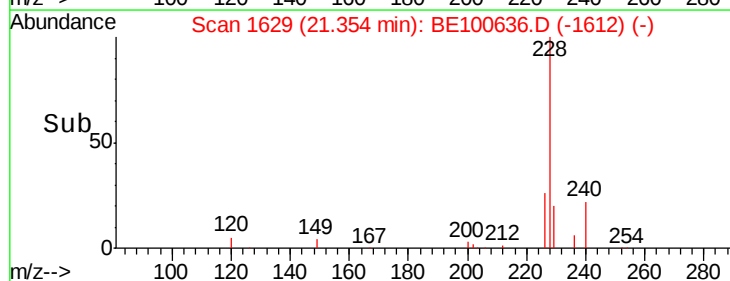
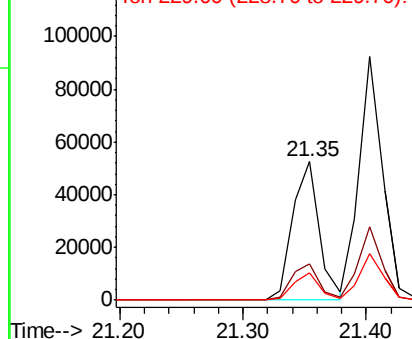
228 100

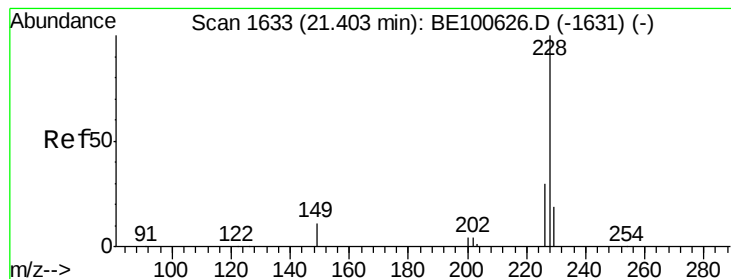
226 26.2 21.0 31.6

229 20.1 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.837 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

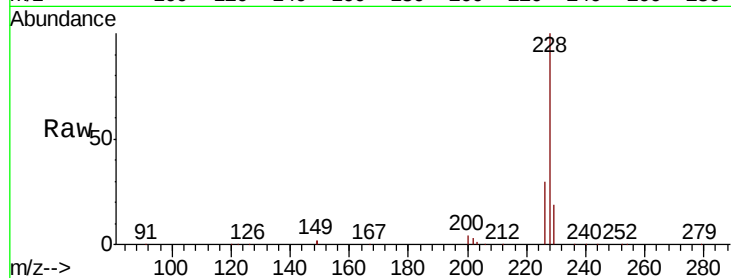
Tot Ion:228 Resp: 123198

Ion Ratio Lower Upper

228 100

226 29.9 24.5 36.7

229 19.3 15.6 23.4

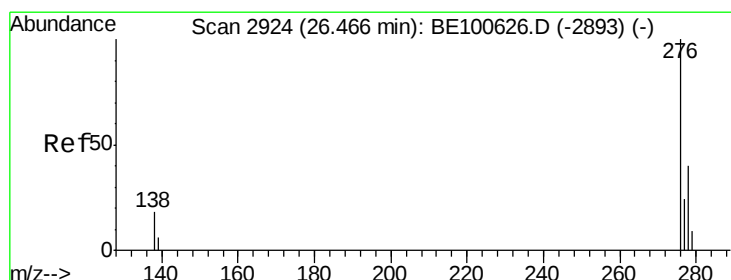
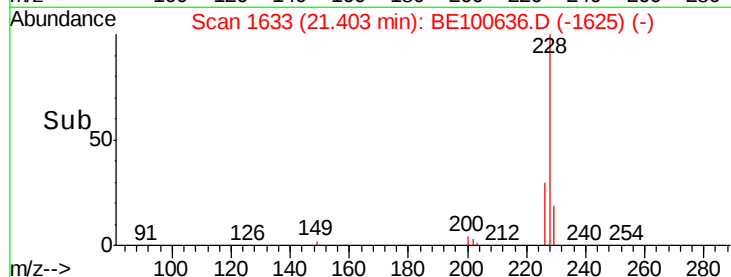
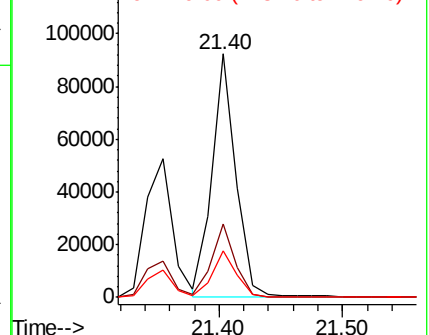


Abundance

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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.692 ng

RT: 26.46 min Scan# 2922

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

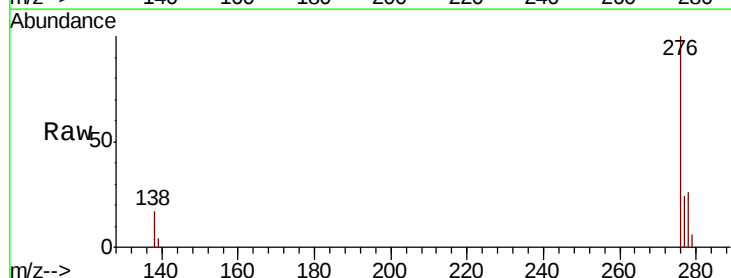
Tgt Ion:276 Resp: 125098

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

277 24.4 19.7 29.5

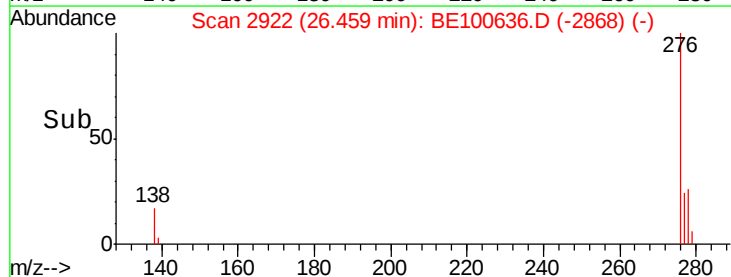
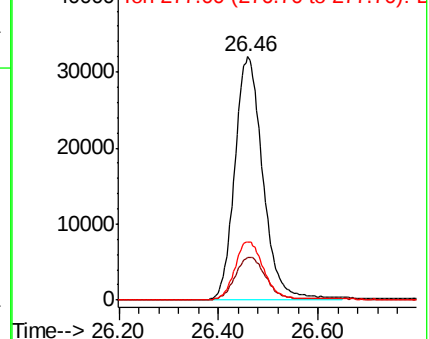


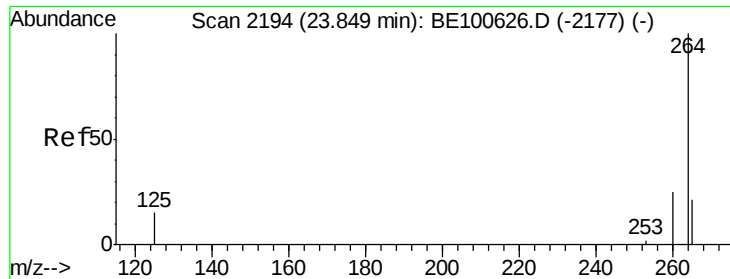
Abundance

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

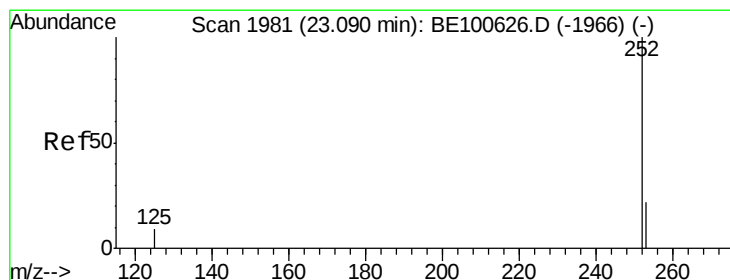
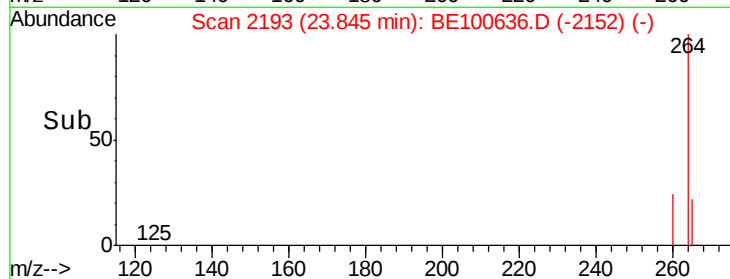
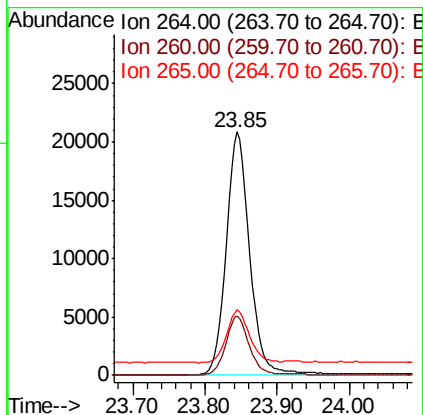
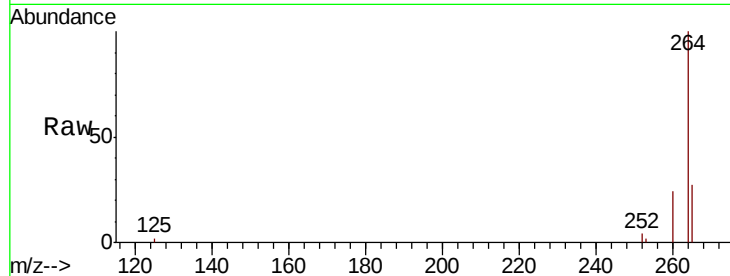




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.85 min Scan# 2193
Delta R.T. -0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

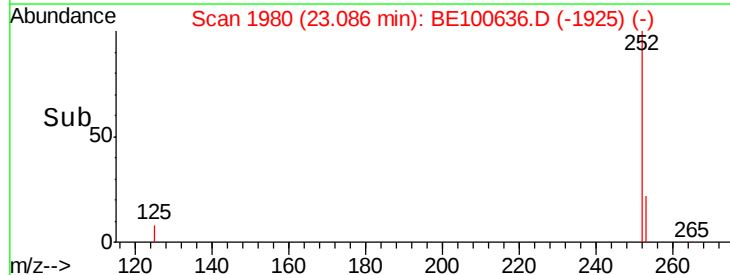
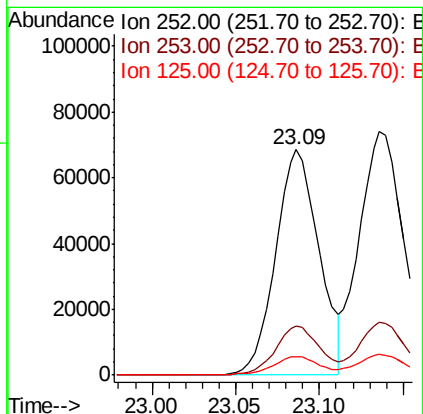
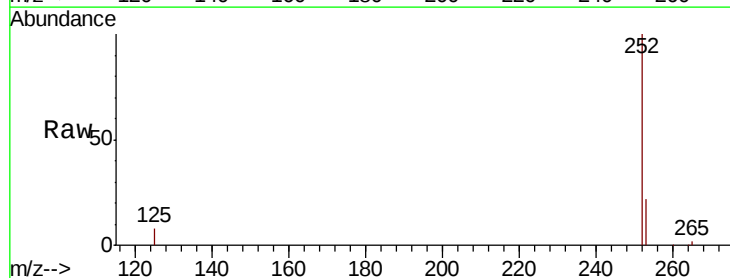
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

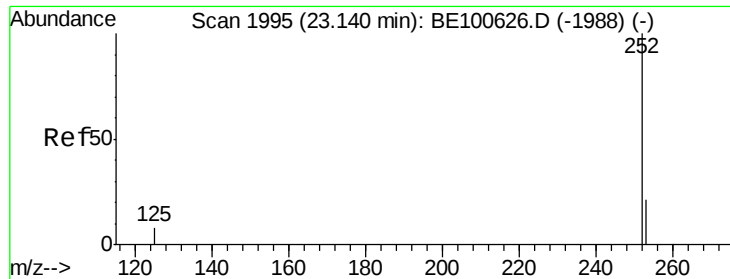
Tot Ion:264 Resp: 46149
Ion Ratio Lower Upper
264 100
260 24.3 19.9 29.9
265 26.8 20.0 30.0



#35
Benzo(b)fluoranthene
Concen: 0.917 ng
RT: 23.09 min Scan# 1980
Delta R.T. -0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

Tgt Ion:252 Resp: 123391
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.8
125 8.3 7.6 11.4

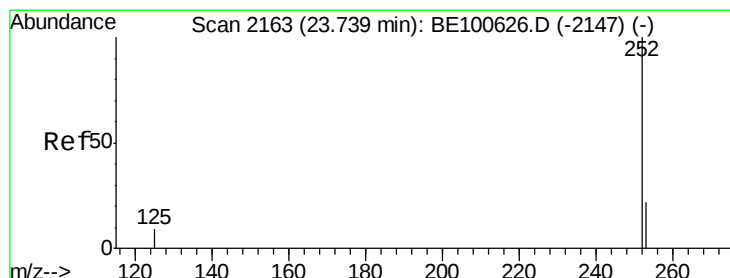
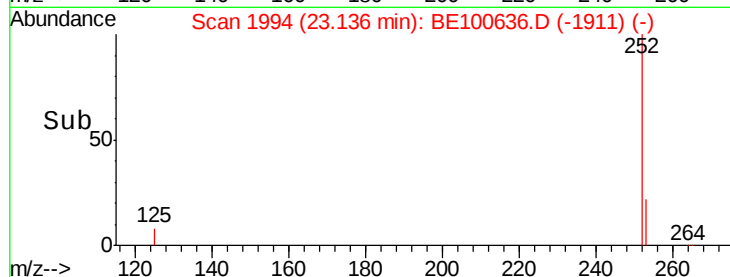
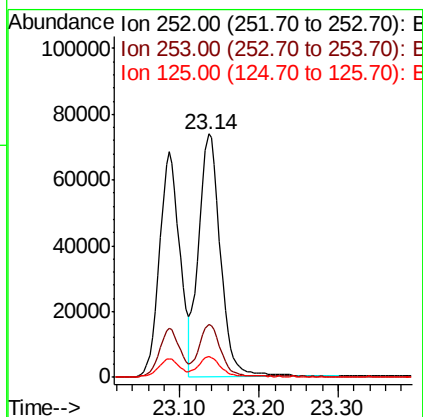
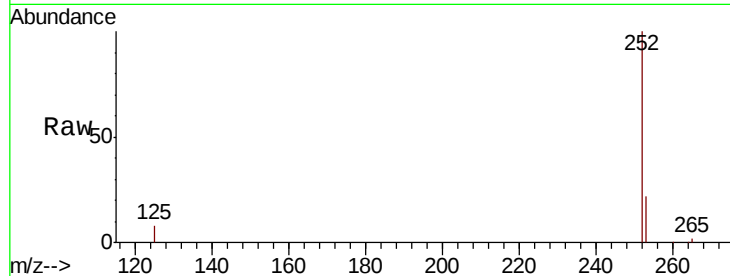




#36
Benzo(k)fluoranthene
Concen: 1.019 ng
RT: 23.14 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

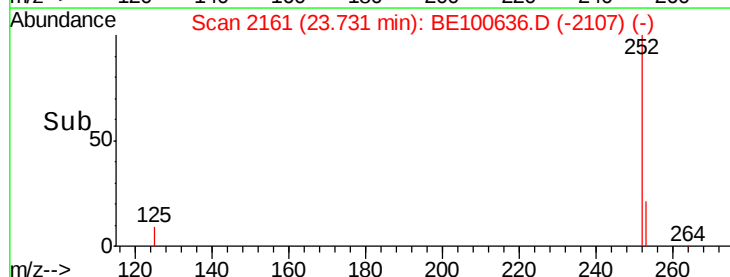
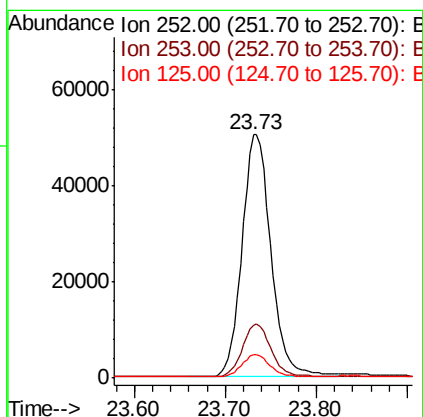
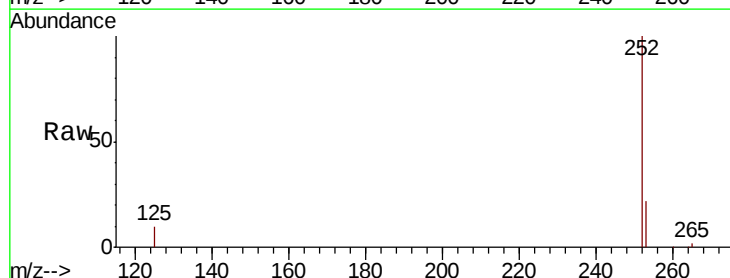
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

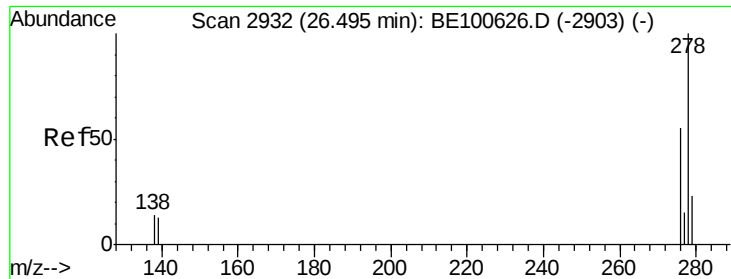
Tot Ion:252 Resp: 141042
Ion Ratio Lower Upper
252 100
253 21.9 17.8 26.6
125 8.5 7.6 11.4



#37
Benzo(a)pyrene
Concen: 0.888 ng
RT: 23.73 min Scan# 2161
Delta R.T. -0.01 min
Lab File: BE100636.D
Acq: 11 Oct 2019 11:26

Tgt Ion:252 Resp: 111227
Ion Ratio Lower Upper
252 100
253 21.9 18.2 27.2
125 9.6 8.1 12.1





#38

Dibenzo(a,h)anthracene

Concen: 0.580 ng

RT: 26.49 min Scan# 2930

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

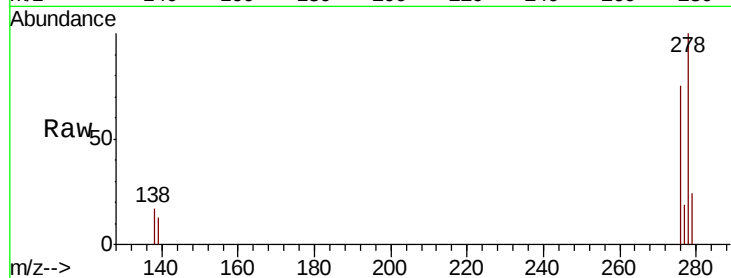
Tot Ion:278 Resp: 75119

Ion Ratio Lower Upper

278 100

139 12.7 11.2 16.8

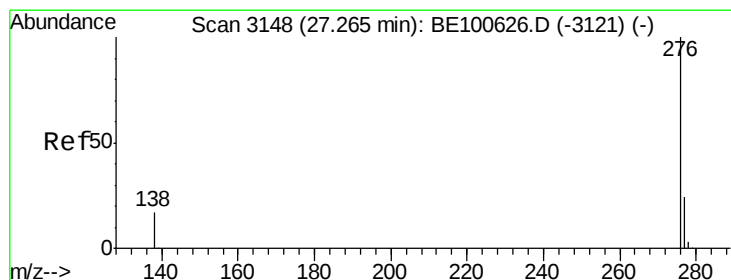
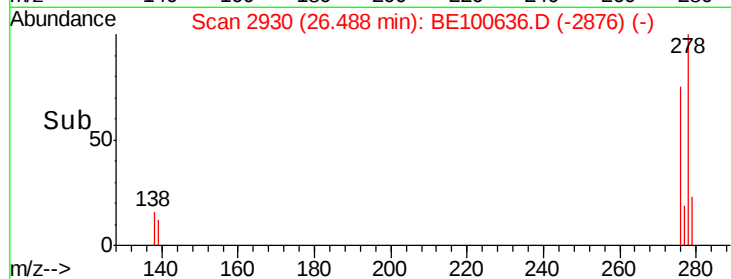
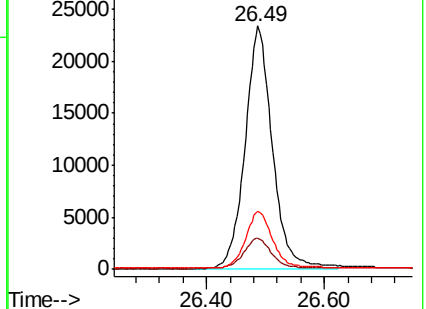
279 23.6 19.0 28.6



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: 0.115 ng

RT: 27.25 min Scan# 3145

Delta R.T. -0.01 min

Lab File: BE100636.D

Acq: 11 Oct 2019 11:26

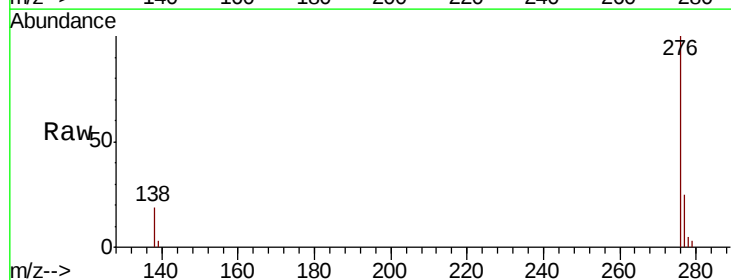
Tgt Ion:276 Resp: 14941

Ion Ratio Lower Upper

276 100

277 24.7 19.3 28.9

138 19.0 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

