

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100329.D
 Acq On : 3 Jul 2019 15:22
 Operator : JU/SJ
 Sample : K3445-17DL2 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

Quant Time: Jul 04 00:35:42 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	7.64	152	529	0.40	ng	0.00
7) Naphthalene-d8	10.44	136	1995	0.40	ng	0.00
13) Acenaphthene-d10	14.31	164	1857	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5366	0.40	ng	0.00
27) Chrysene-d12	21.24	240	6516	0.40	ng	0.00
34) Perylene-d12	23.67	264	8056	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	39	0.03	ng	-0.01
5) Phenol-d6	6.82	99	6	0.00	ng	-0.02
8) Nitrobenzene-d5	8.78	82	3	0.00	ng	-0.04
11) 2-Methylnaphthalene-d10	12.08	152	72	0.02	ng	0.03
14) 2,4,6-Tribromophenol	15.86	330	10	0.01	ng	0.04
15) 2-Fluorobiphenyl	12.96	172	124	0.02	ng	0.01
25) Fluoranthene-d10	19.09	212	1146	0.01	ng	0.00
29) Terphenyl-d14	19.70	244	1720	0.13	ng	0.00

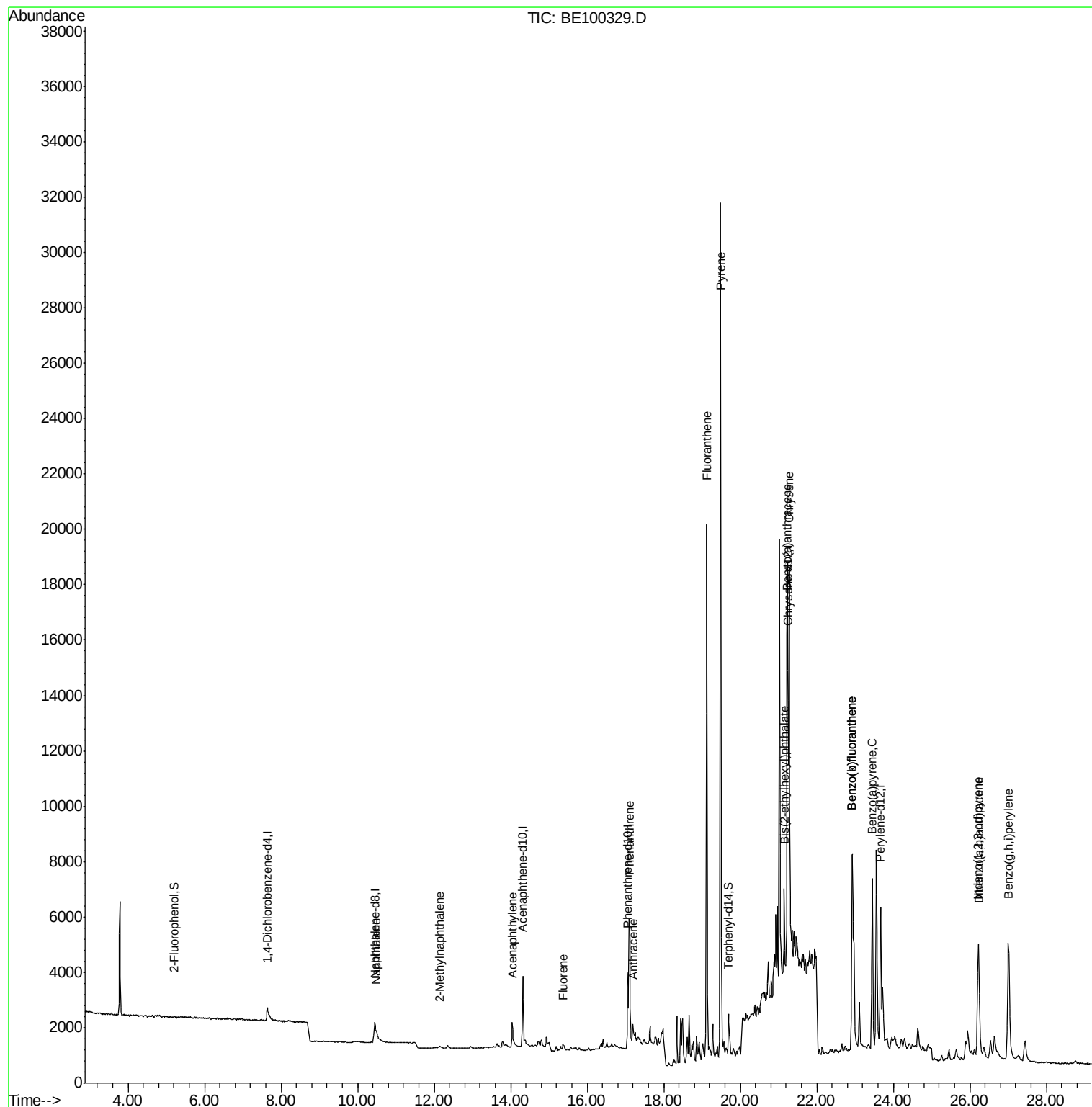
Target Compounds				Qvalue		
9) Naphthalene	10.48	128	737	0.033	ng	# 71
12) 2-Methylnaphthalene	12.15	142	89	0.023	ng	# 75
16) Acenaphthylene	14.04	152	1771	0.199	ng	99
18) Fluorene	15.37	166	292	0.039	ng	# 84
23) Phenanthrene	17.09	178	6436	0.495	ng	98
24) Anthracene	17.20	178	1171	0.100	ng	# 94
26) Fluoranthene	19.12	202	19660	0.949	ng	99
28) Pyrene	19.48	202	31376	1.819	ng	98
30) Benzo(a)anthracene	21.22	228	13198	0.616	ng	# 92
31) Chrysene	21.28	228	15413	0.716	ng	94
32) Bis(2-ethylhexyl)phthalate	21.15	149	2848	0.036	ng	# 97
33) Indeno(1,2,3-cd)pyrene	26.22	276	9586	0.337	ng	# 96
35) Benzo(b)fluoranthene	22.92	252	14706	0.673	ng	98
36) Benzo(k)fluoranthene	22.92	252	14706	0.603	ng	# 95
37) Benzo(a)pyrene	23.45	252	9990	0.456	ng	96
38) Dibenzo(a,h)anthracene	26.24	278	1899	0.083	ng	# 59
39) Benzo(a,h,i)perylene	27.01	276	11986	0.510	ng	98

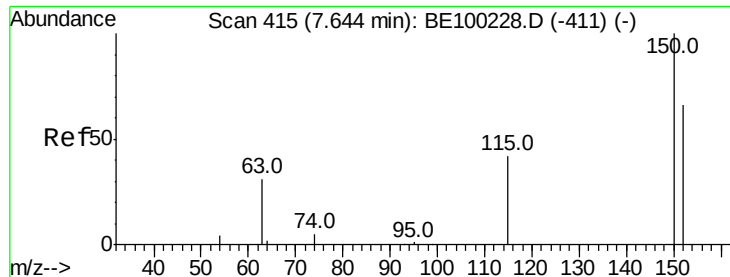
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.64 min Scan# 415

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

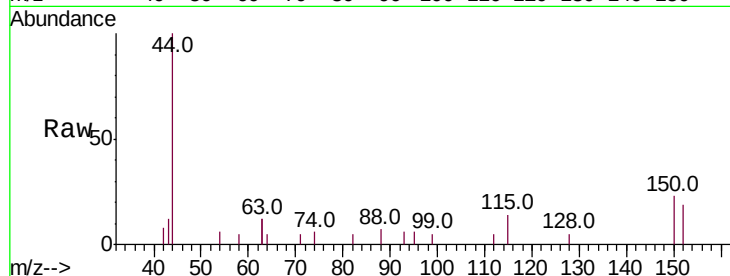
Tot Ion:152 Resp: 529

Ion Ratio Lower Upper

152 100

150 124.2 114.5 171.7

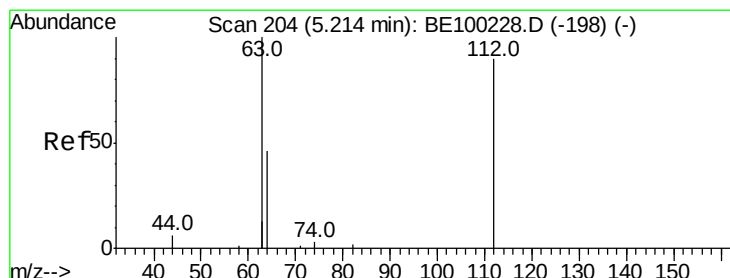
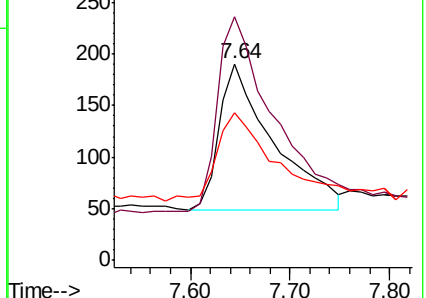
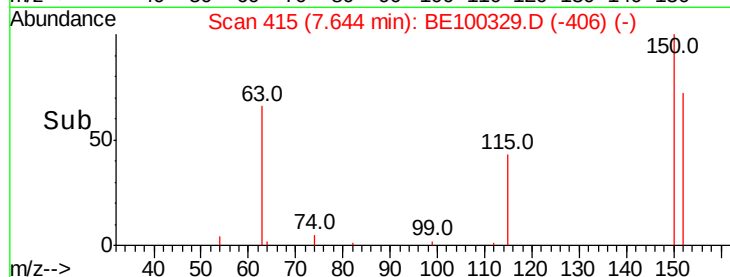
115 75.3 57.1 85.7



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: 0.029 ng

RT: 5.20 min Scan# 203

Delta R.T. -0.01 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

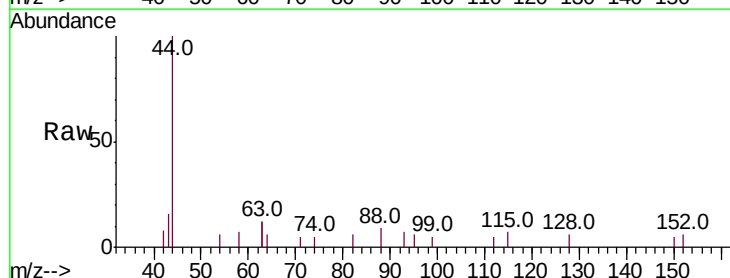
Tgt Ion:112 Resp: 39

Ion Ratio Lower Upper

112 100

64 28.2 39.4 59.0#

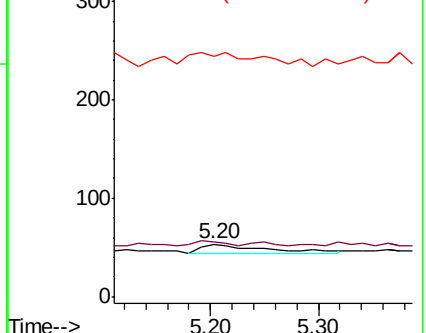
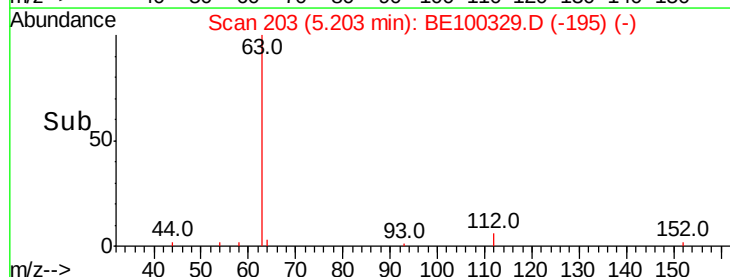
63 184.6 104.5 156.7#

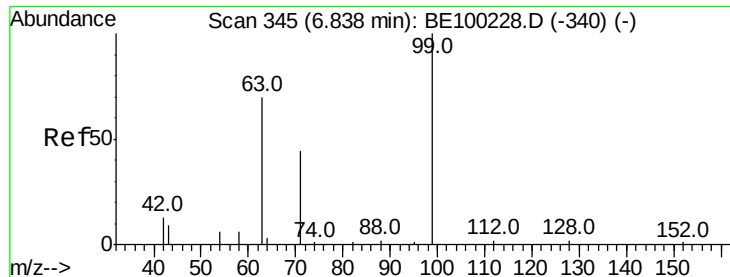


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.003 ng

RT: 6.82 min Scan# 343

Delta R.T. -0.02 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

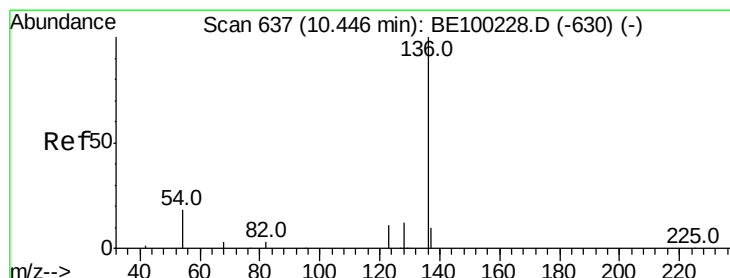
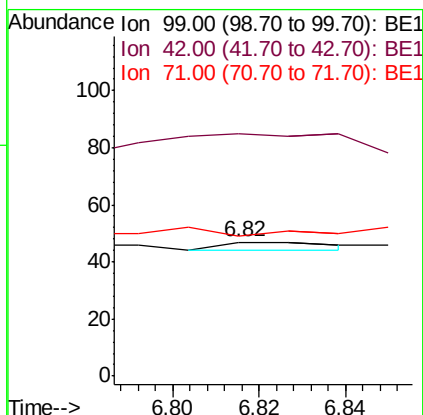
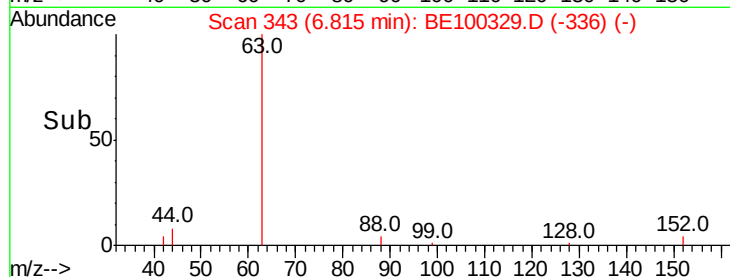
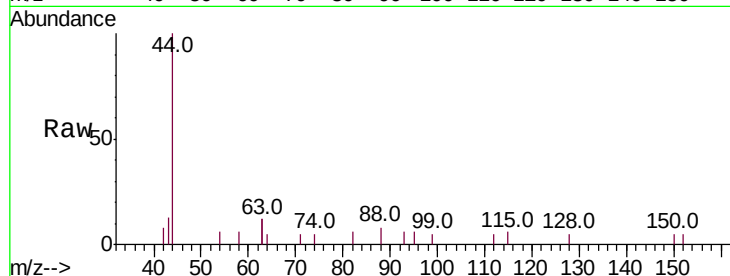
Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

Tot Ion:	99	Resp:	6
Ion	Ratio	Lower	Upper
99	100		
42	383.3	11.2	16.8#
71	0.0	37.2	55.8#



#7

Naphthalene-d8

Concen: 0.400 ng

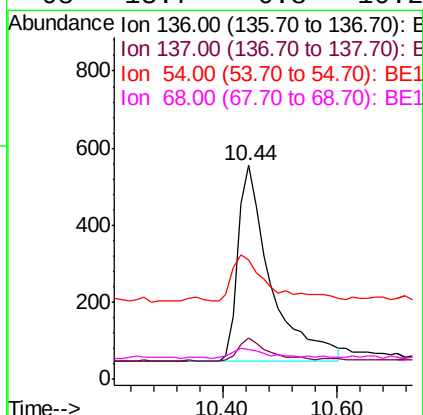
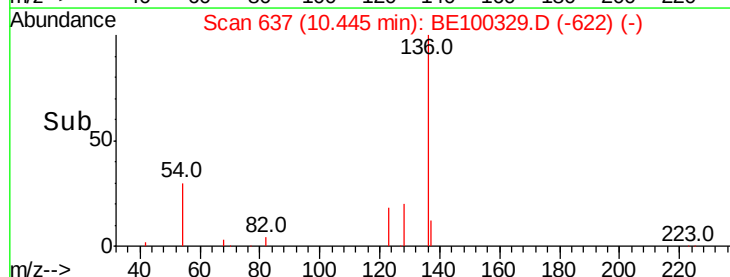
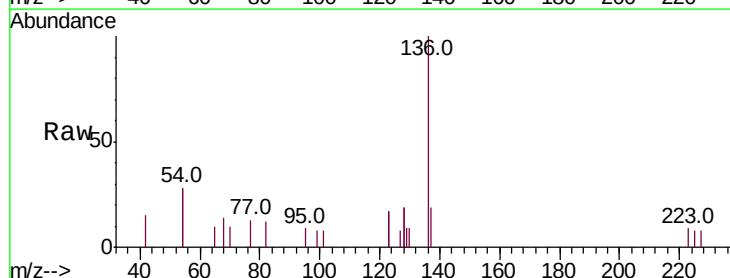
RT: 10.44 min Scan# 637

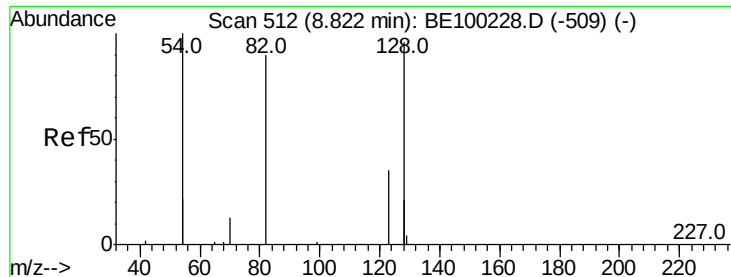
Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:	136	Resp:	1995
Ion	Ratio	Lower	Upper
136	100		
137	19.1	11.8	17.8#
54	55.5	27.7	41.5#
68	13.7	6.8	10.2#





#8

Nitrobenzene-d5

Concen: 0.002 ng

RT: 8.78 min Scan# 509

Delta R.T. -0.04 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

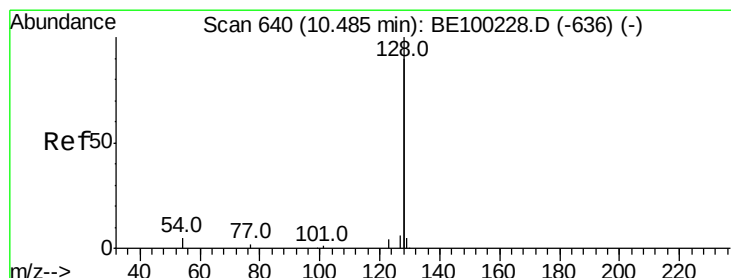
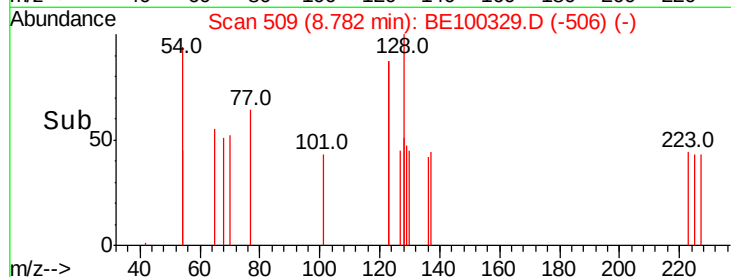
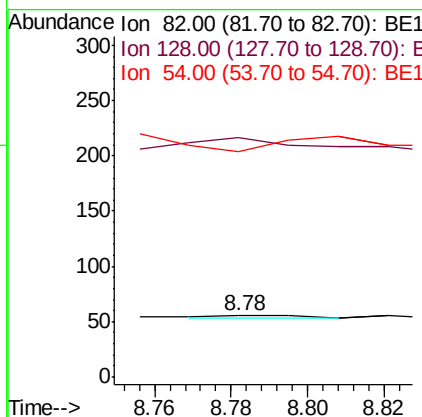
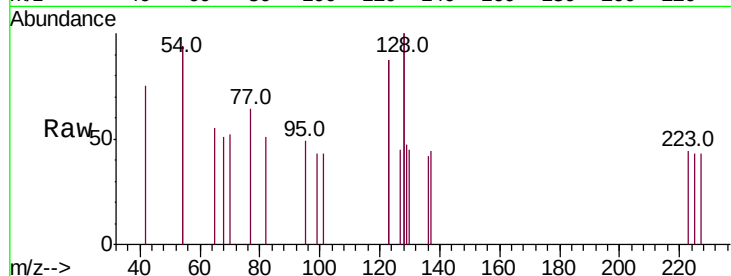
Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

Tot Ion:	82	Resp:	3
Ion	Ratio	Lower	Upper
82	100		
128	392.7	140.9	211.3#
54	370.9	146.2	219.2#



#9

Naphthalene

Concen: 0.033 ng

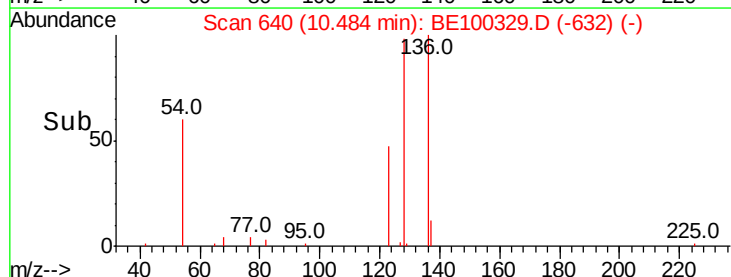
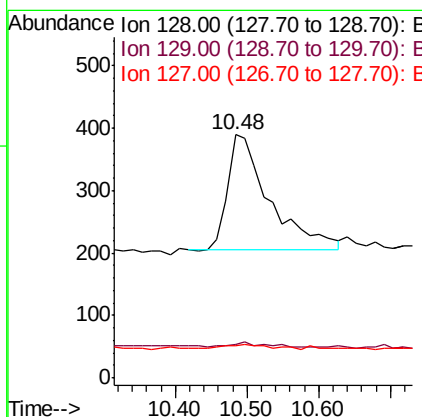
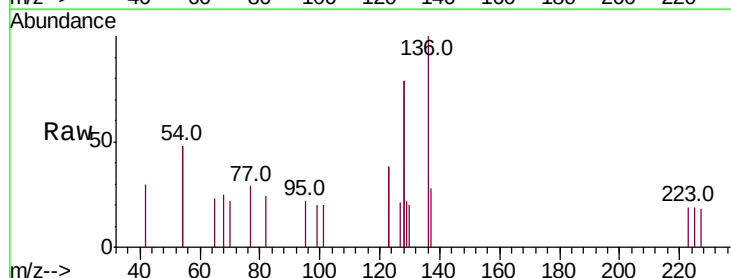
RT: 10.48 min Scan# 640

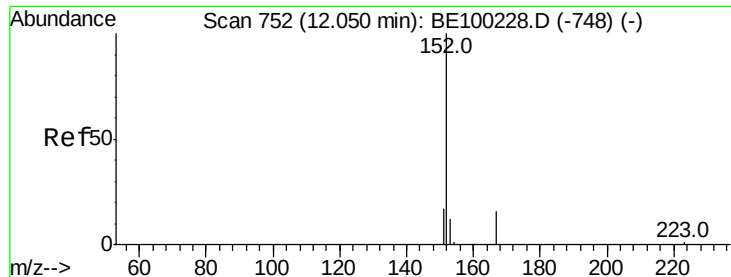
Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:	128	Resp:	737
Ion	Ratio	Lower	Upper
128	100		
129	13.8	3.0	4.6#
127	13.3	3.5	5.3#

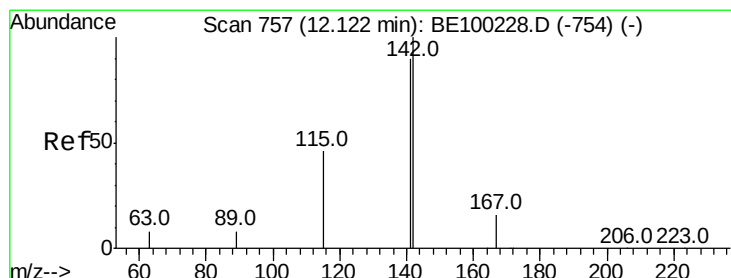
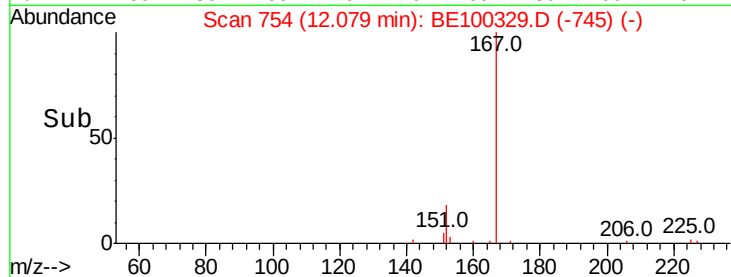
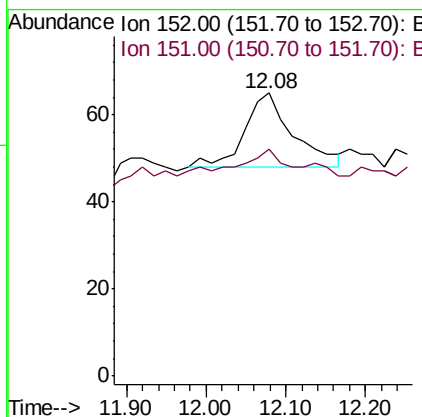
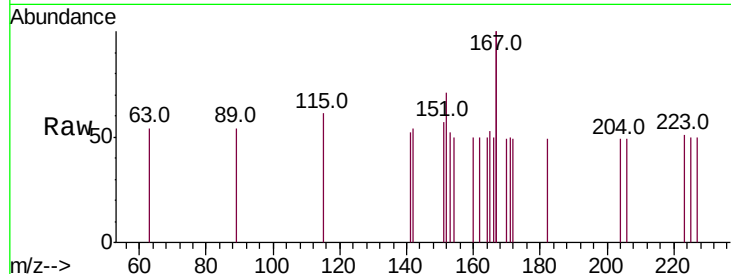




#11
2-Methylnaphthalene-d10
Concen: 0.019 ng
RT: 12.08 min Scan# 754
Delta R.T. 0.03 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

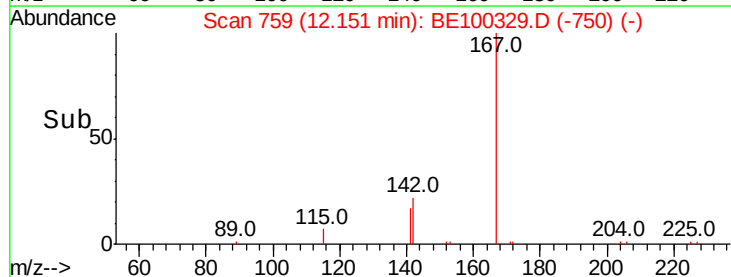
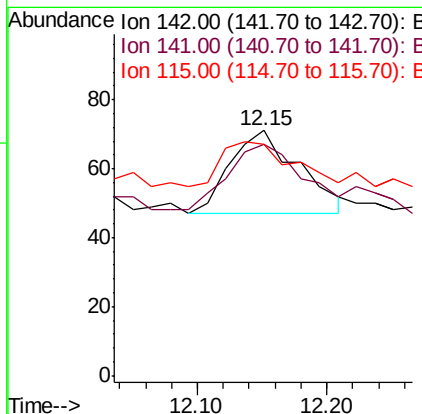
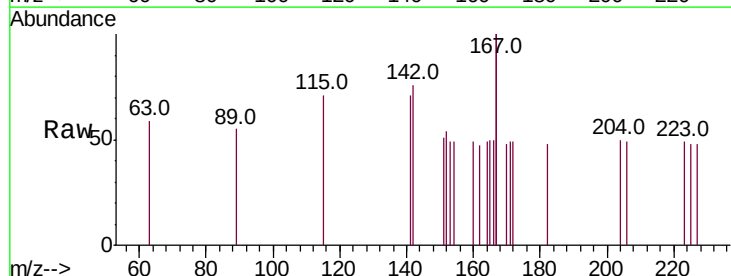
Instrument :
BNA_E
ClientSampleId :
EXT-001-SW077-061719DL

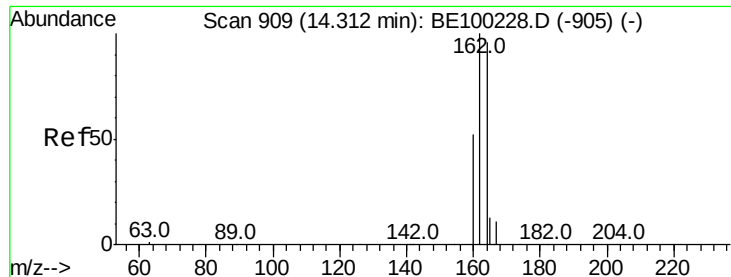
Tot Ion:152 Resp: 72
Ion Ratio Lower Upper
152 100
151 38.9 15.1 22.7#



#12
2-Methylnaphthalene
Concen: 0.023 ng
RT: 12.15 min Scan# 759
Delta R.T. 0.03 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion:142 Resp: 89
Ion Ratio Lower Upper
142 100
141 94.4 72.4 108.6
115 94.4 40.4 60.6#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

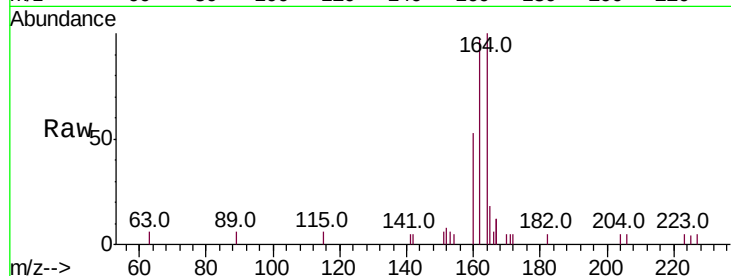
Tot Ion:164 Resp: 1857

Ion Ratio Lower Upper

164 100

162 97.4 83.4 125.0

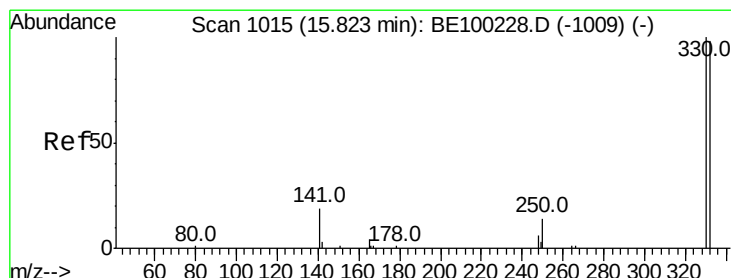
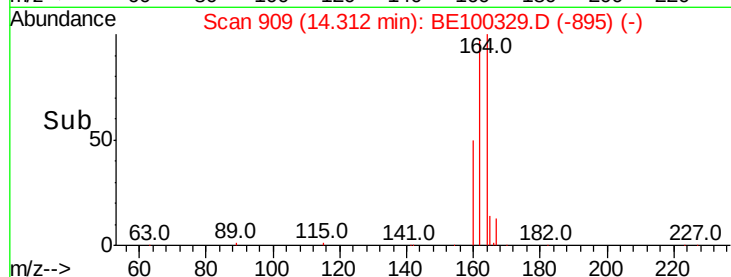
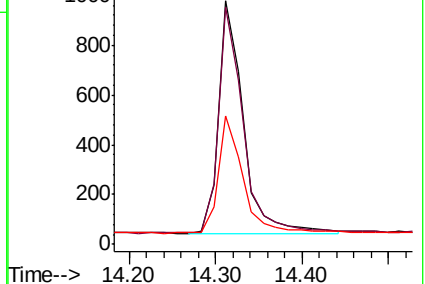
160 52.7 45.0 67.6



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: 0.008 ng

RT: 15.86 min Scan# 1018

Delta R.T. 0.04 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

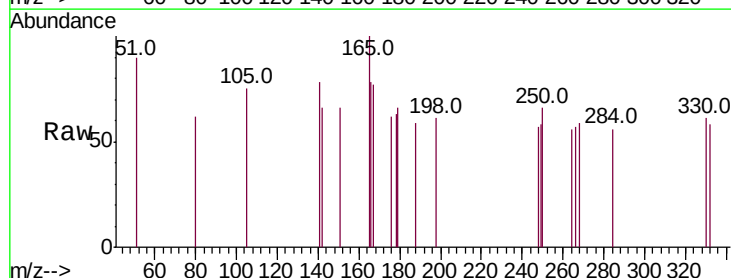
Tgt Ion:330 Resp: 10

Ion Ratio Lower Upper

330 100

332 180.0 77.0 115.4#

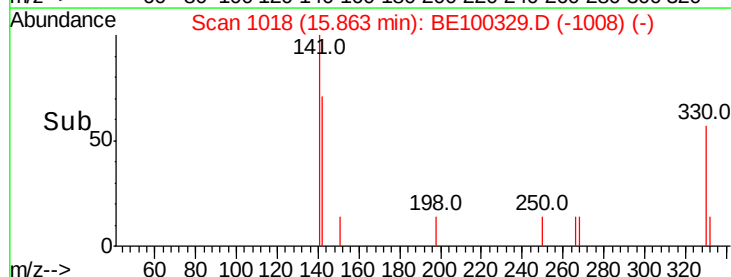
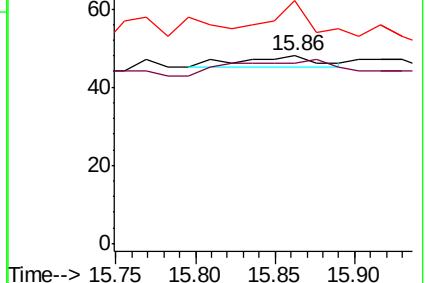
141 150.0 22.0 33.0#

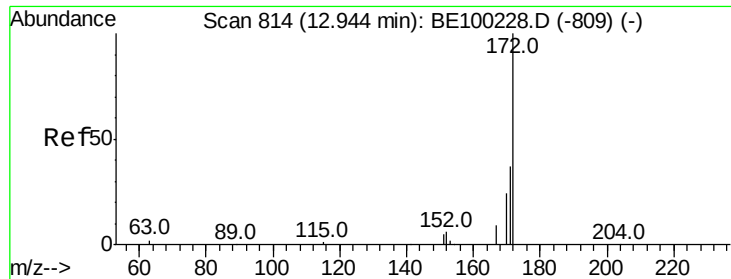


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

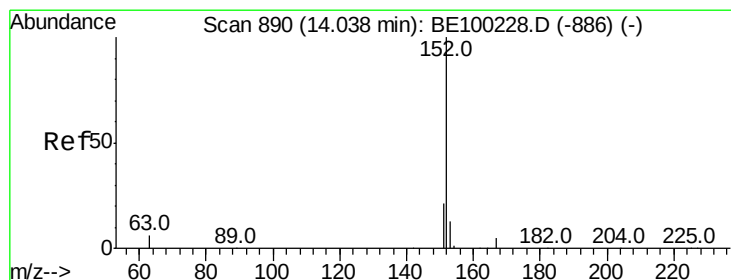
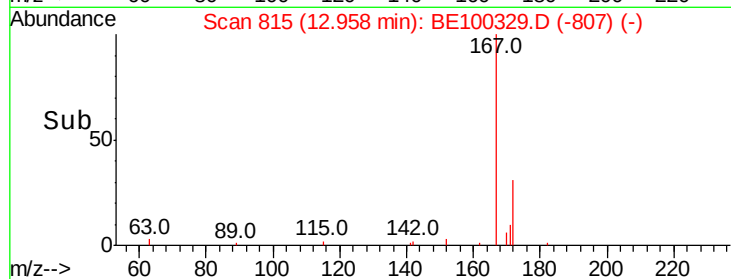
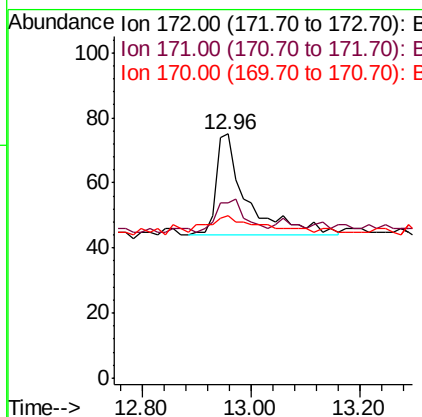
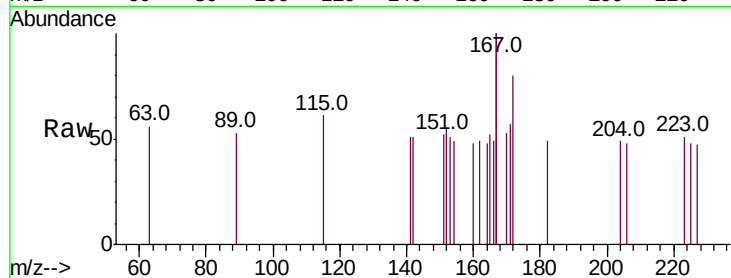




#15
2-Fluorobiphenyl
Concen: 0.017 ng
RT: 12.96 min Scan# 815
Delta R.T. 0.01 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

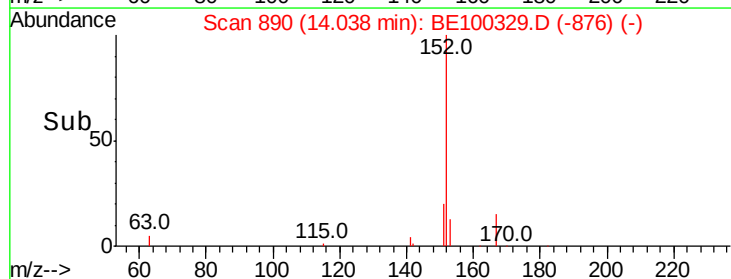
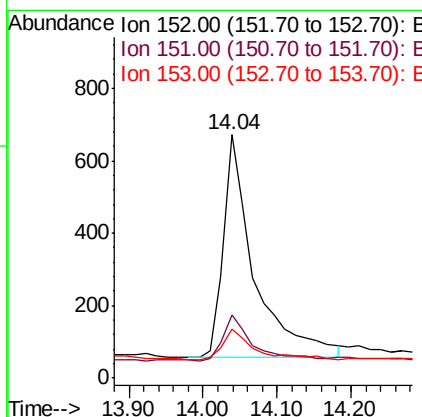
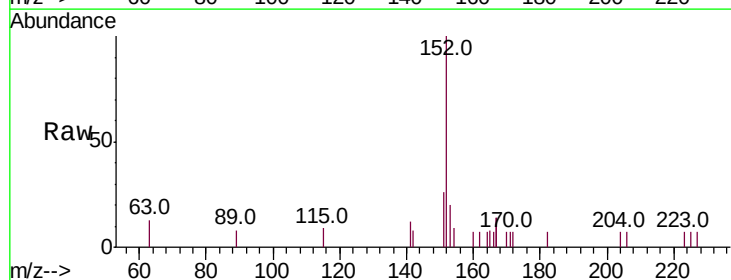
Instrument :
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EXT-001-SW077-061719DL

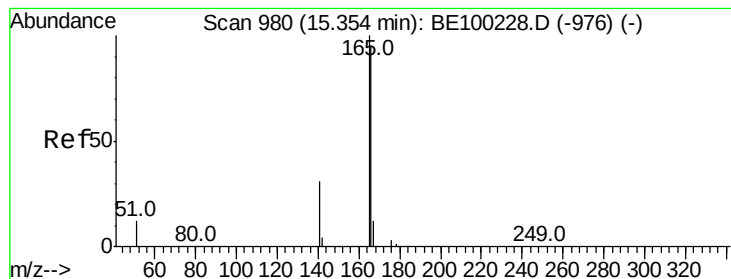
Tot Ion:172 Resp: 124
Ion Ratio Lower Upper
172 100
171 72.0 31.9 47.9#
170 66.7 22.2 33.2#



#16
Acenaphthylene
Concen: 0.199 ng
RT: 14.04 min Scan# 890
Delta R.T. -0.00 min
Lab File: BE100329.D
Acq: 3 Jul 2019 15:22

Tgt Ion:152 Resp: 1771
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0
153 13.8 10.5 15.7





#18

Fluorene

Concen: 0.039 ng

RT: 15.37 min Scan# 981

Delta R.T. 0.01 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

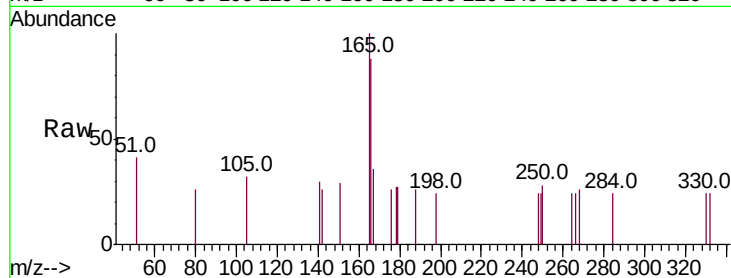
Tot Ion:166 Resp: 292

Ion Ratio Lower Upper

166 100

165 117.5 81.1 121.7

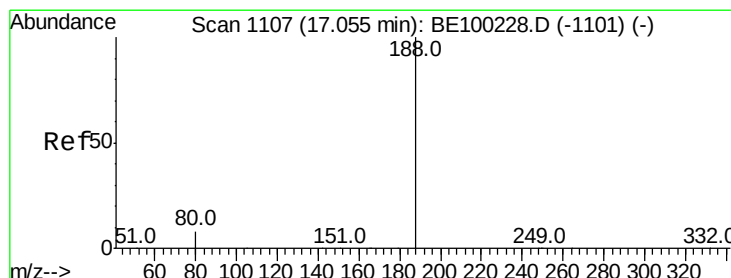
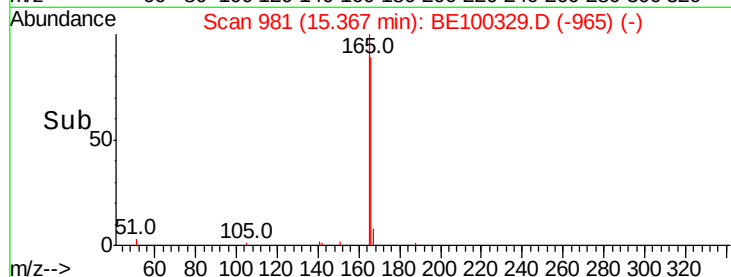
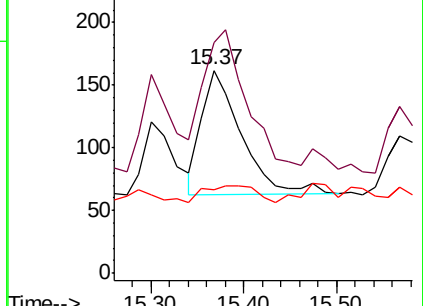
167 18.8 10.7 16.1#



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

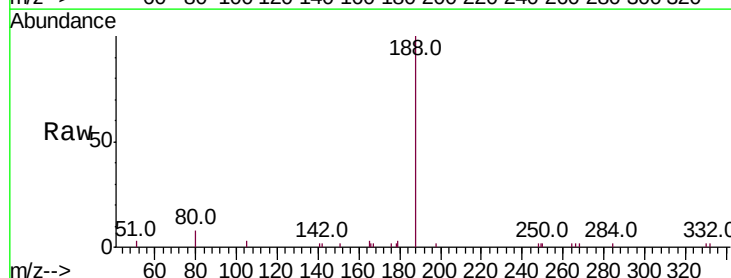
Tgt Ion:188 Resp: 5366

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

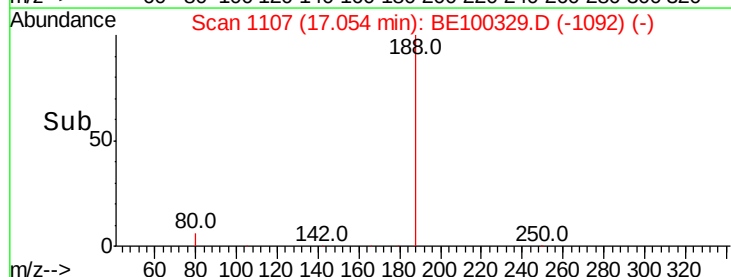
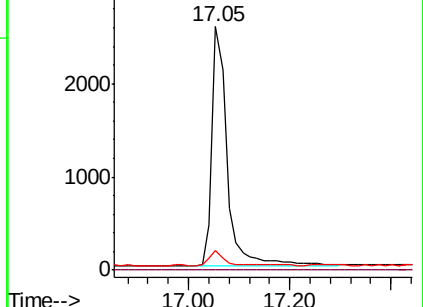
80 8.3 7.6 11.4

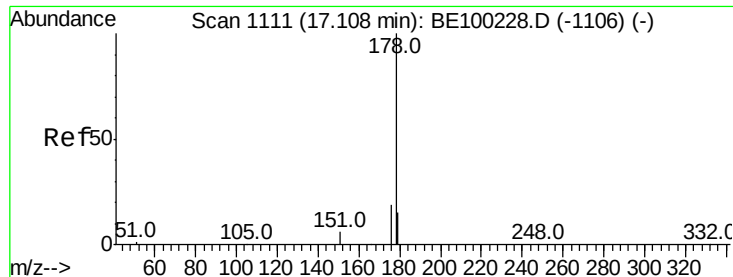


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1





#23

Phenanthrene

Concen: 0.495 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

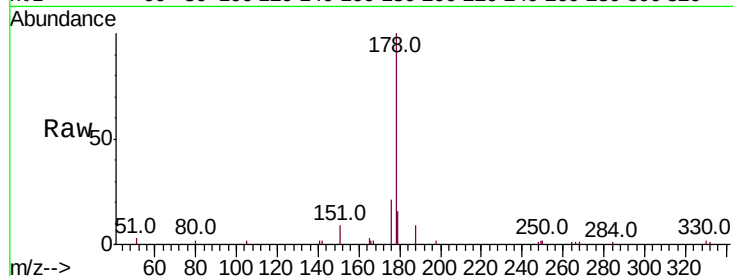
Tot Ion:178 Resp: 6436

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

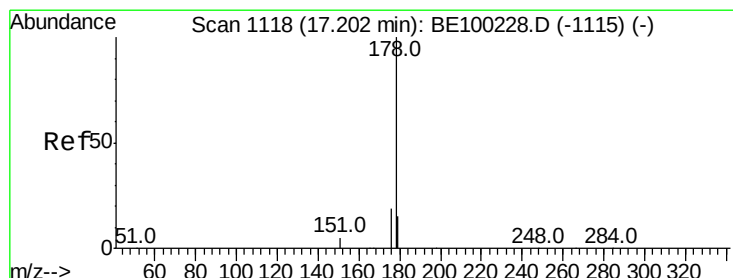
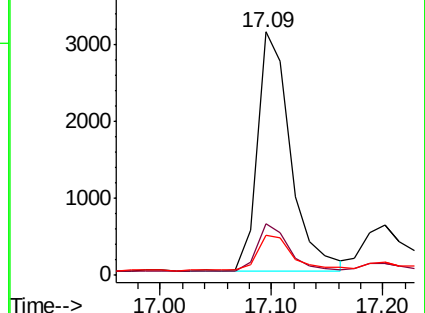
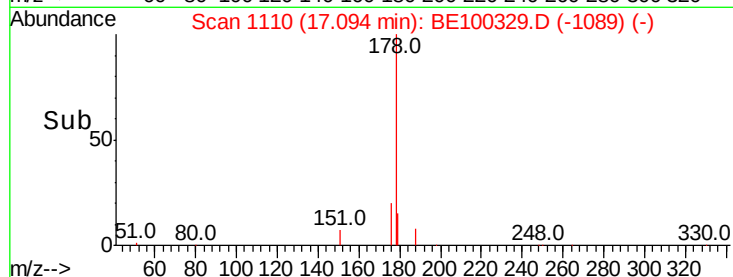
179 16.7 12.2 18.2



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



#24

Anthracene

Concen: 0.100 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

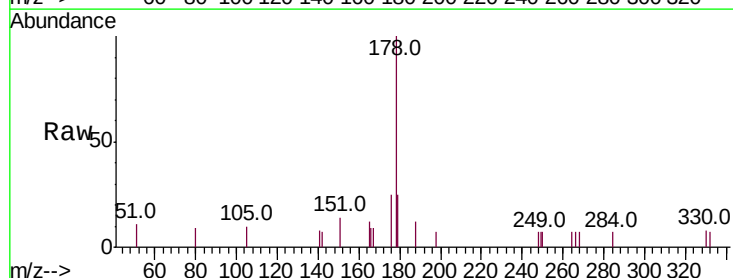
Tgt Ion:178 Resp: 1171

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

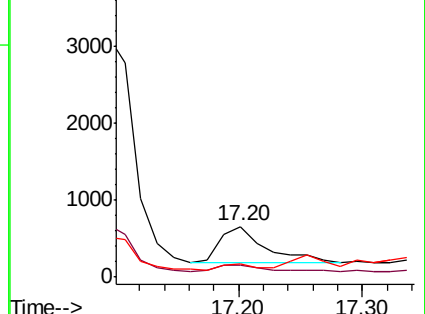
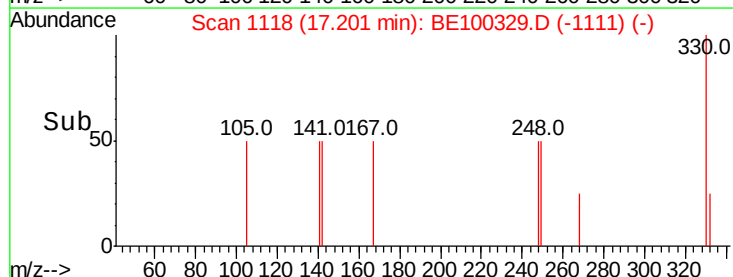
179 9.7 12.2 18.2#

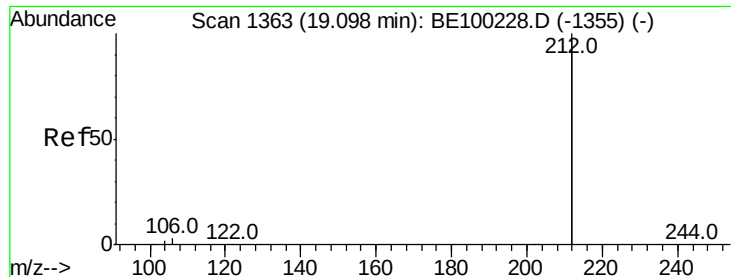


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.015 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

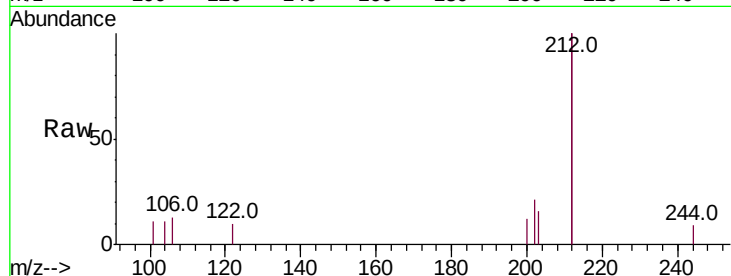
Tot Ion:212 Resp: 1146

Ion Ratio Lower Upper

212 100

106 2.0 1.3 1.9#

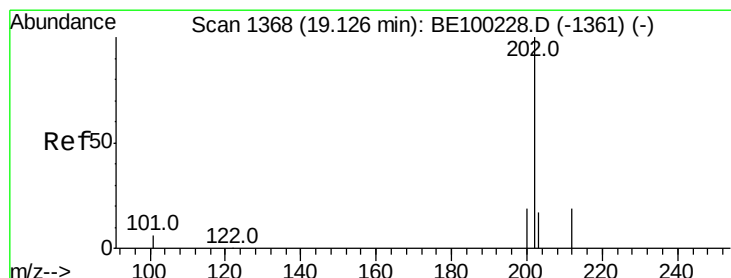
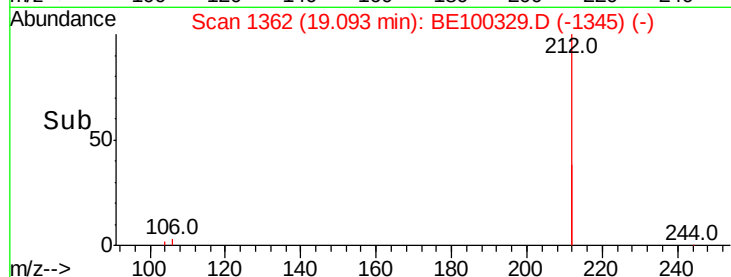
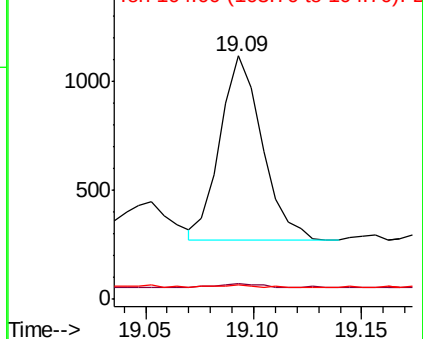
104 1.7 0.8 1.2#



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: 0.949 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

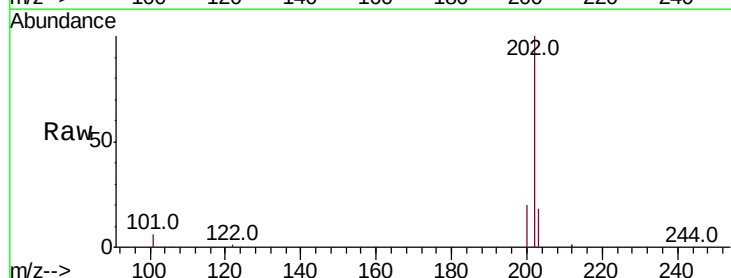
Tgt Ion:202 Resp: 19660

Ion Ratio Lower Upper

202 100

101 5.7 4.6 7.0

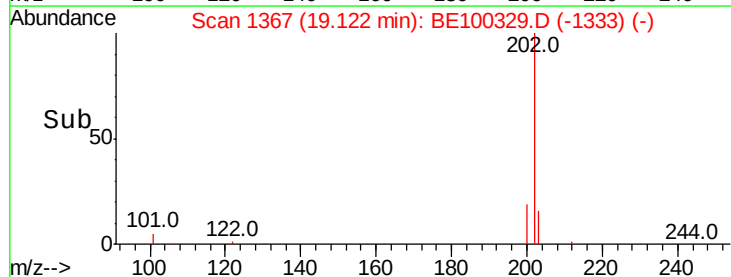
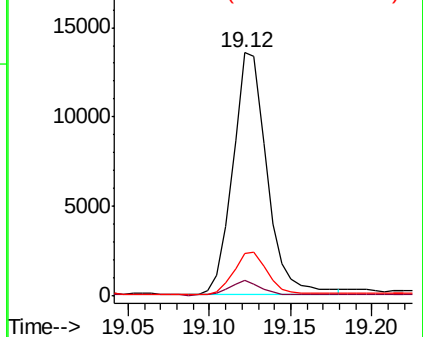
203 17.7 13.7 20.5

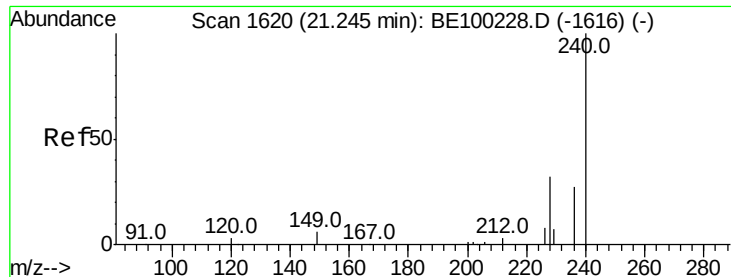


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

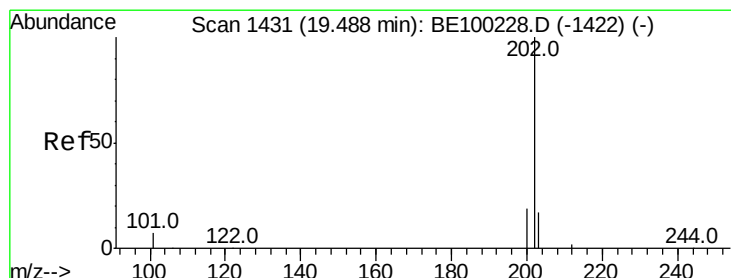
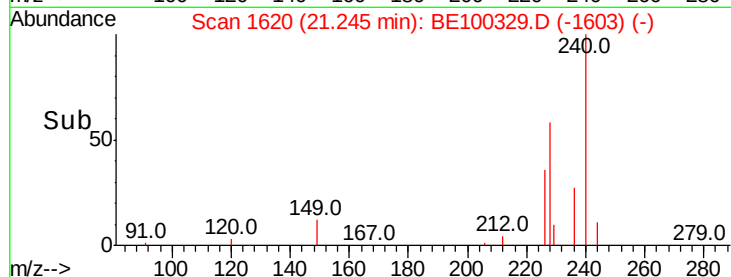
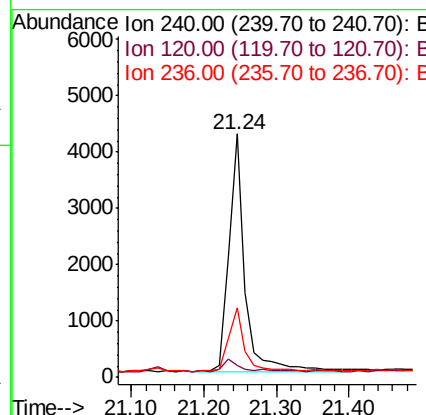
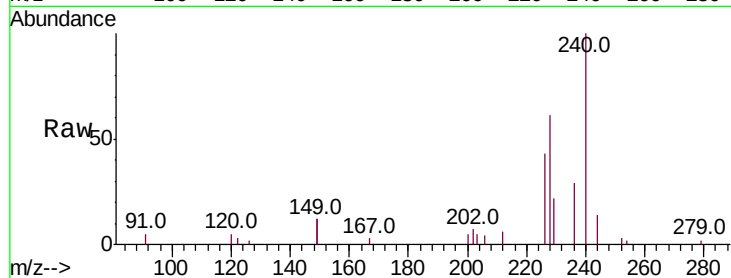




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.24 min Scan# 1620
 Delta R.T. 0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

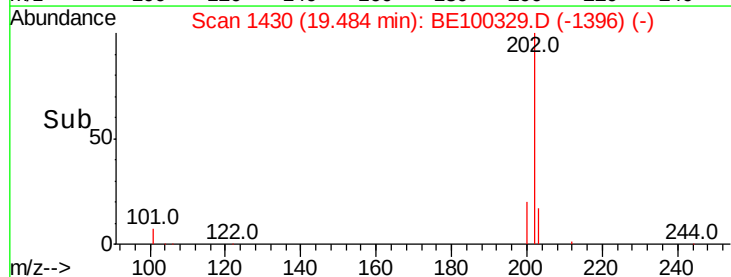
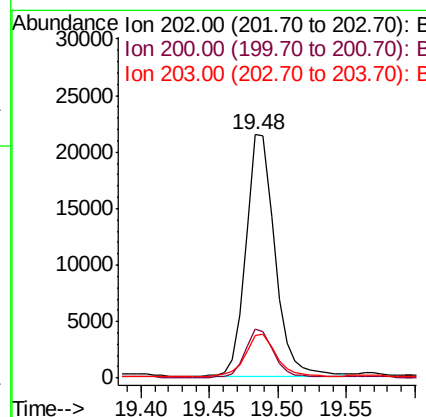
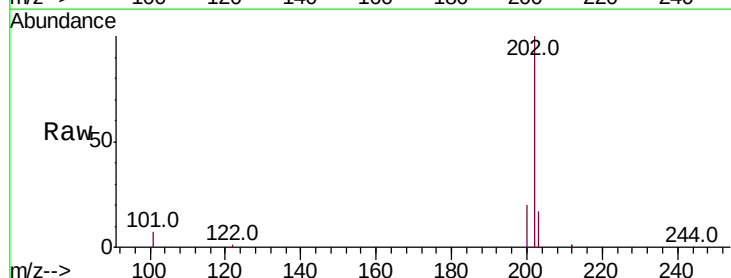
Instrument :
 BNA_E
 ClientSampleId :
 EXT-001-SW077-061719DL

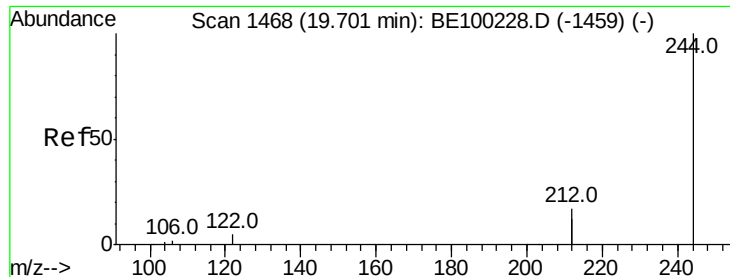
Tot Ion:240 Resp: 6516
 Ion Ratio Lower Upper
 240 100
 120 5.0 3.3 4.9#
 236 28.7 22.6 34.0



#28
 Pyrene
 Concen: 1.819 ng
 RT: 19.48 min Scan# 1430
 Delta R.T. -0.00 min
 Lab File: BE100329.D
 Acq: 3 Jul 2019 15:22

Tgt Ion:202 Resp: 31376
 Ion Ratio Lower Upper
 202 100
 200 19.8 15.6 23.4
 203 19.4 14.0 21.0





#29

Terphenyl-d14

Concen: 0.127 ng

RT: 19.70 min Scan# 1467

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

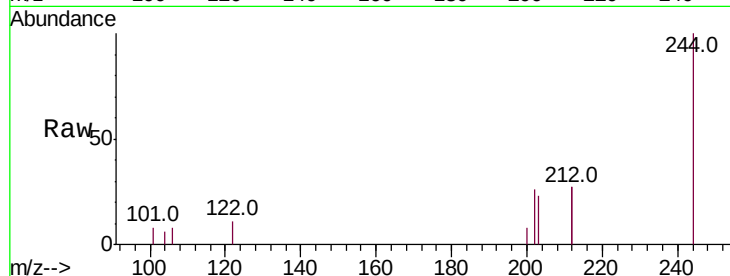
Tot Ion:244 Resp: 1720

Ion Ratio Lower Upper

244 100

212 54.5 27.3 40.9#

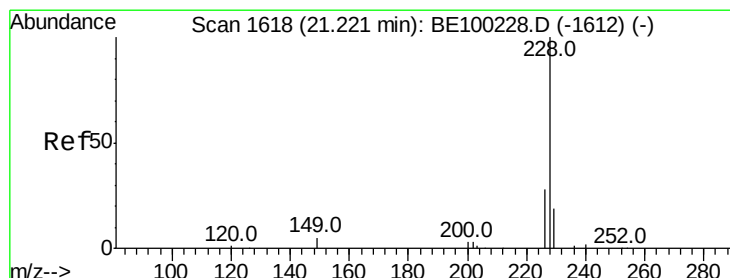
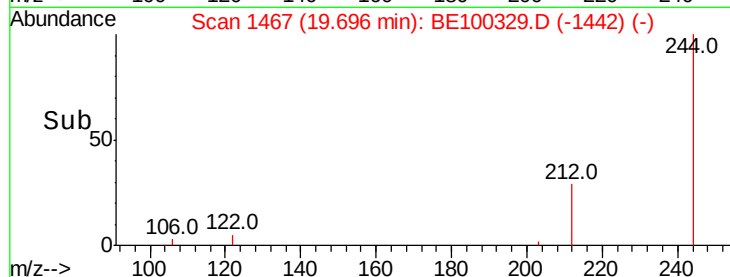
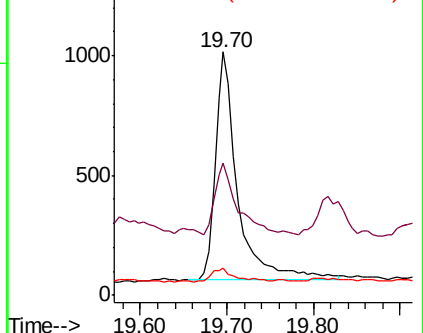
122 11.1 4.7 7.1#



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: 0.616 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

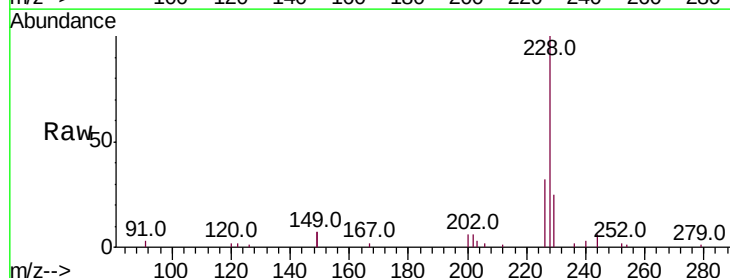
Tgt Ion:228 Resp: 13198

Ion Ratio Lower Upper

228 100

226 31.7 23.2 34.8

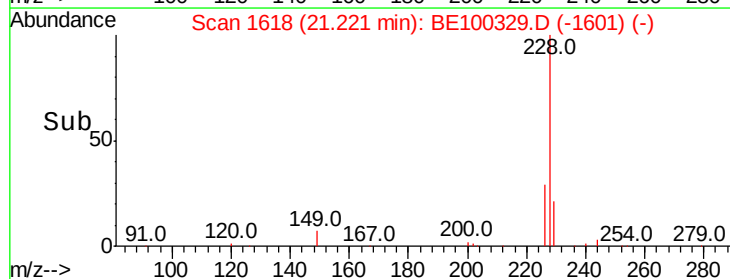
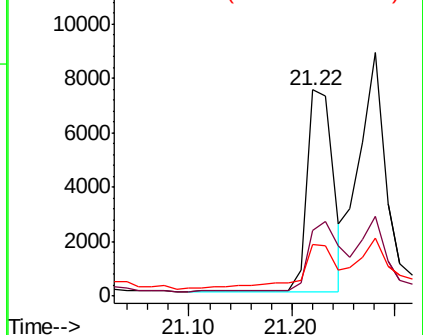
229 24.9 15.7 23.5#

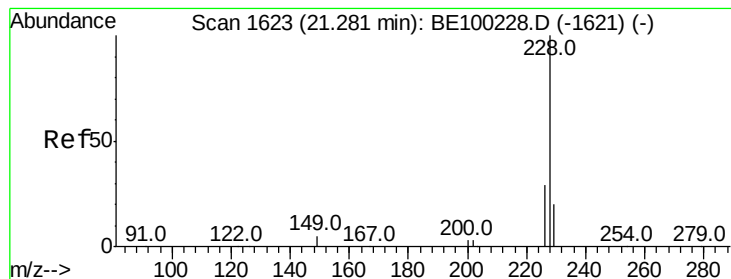


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.716 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

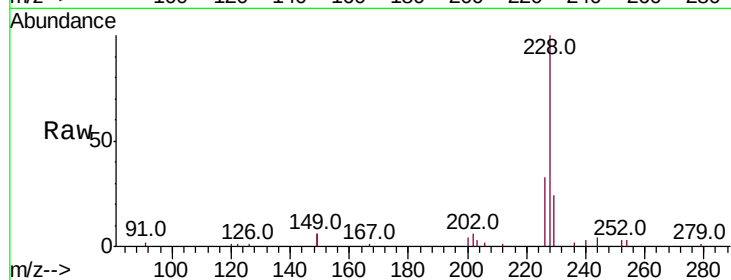
BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

Tot Ion:228 Resp: 15413

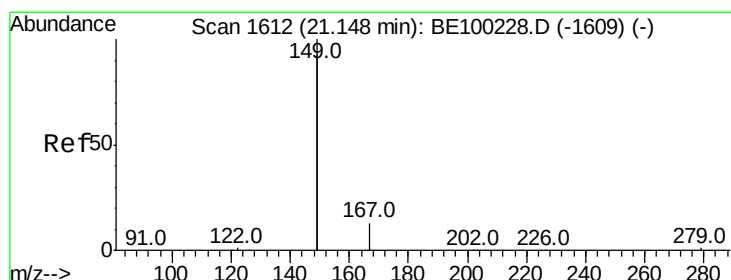
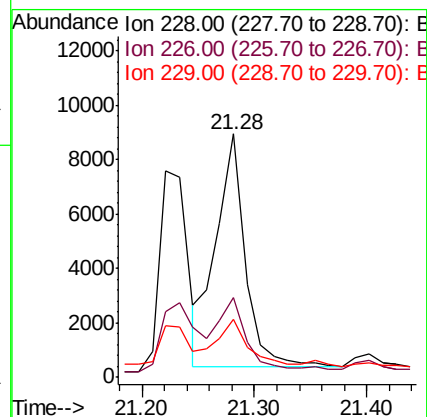
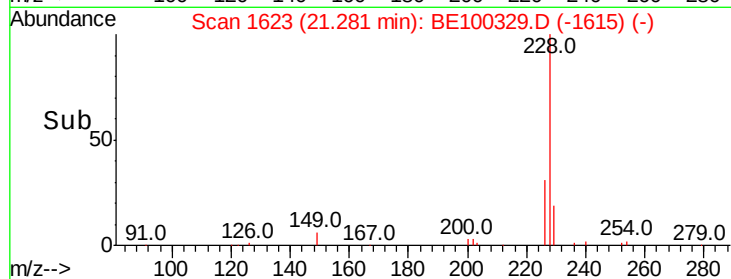
Ion	Ratio	Lower	Upper
228	100		
226	32.6	23.9	35.9
229	23.7	16.5	24.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.036 ng

RT: 21.15 min Scan# 1612

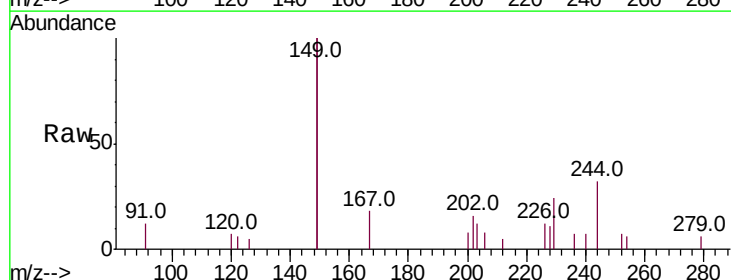
Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Tgt Ion:149 Resp: 2848

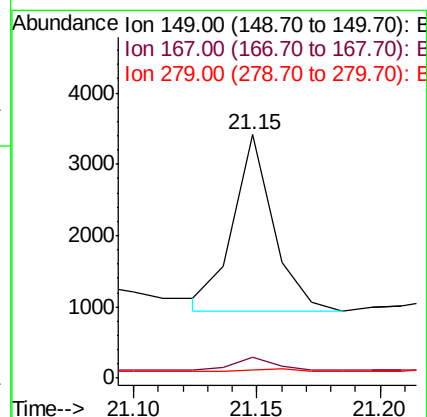
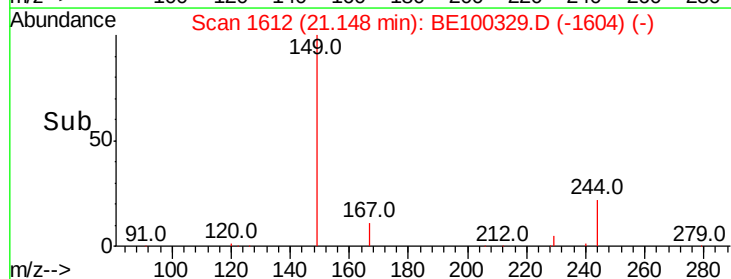
Ion	Ratio	Lower	Upper
149	100		
167	8.4	5.8	8.8
279	2.4	1.1	1.7#

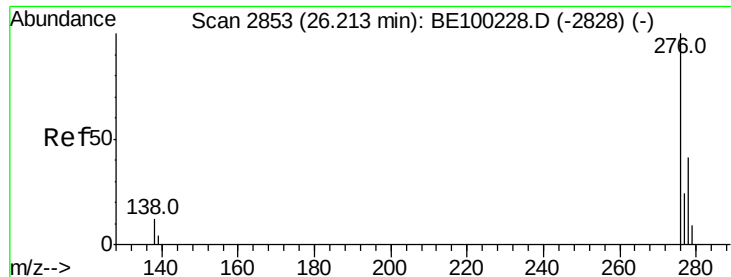


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.337 ng

RT: 26.22 min Scan# 2856

Delta R.T. 0.01 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

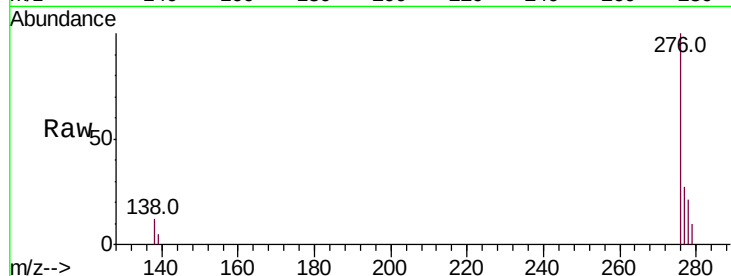
Tot Ion:276 Resp: 9586

Ion Ratio Lower Upper

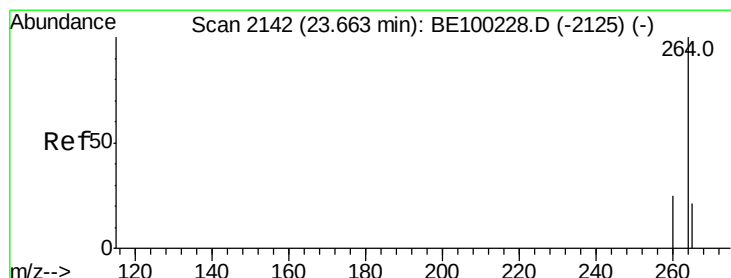
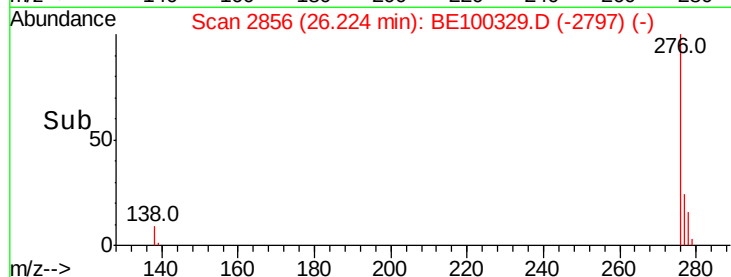
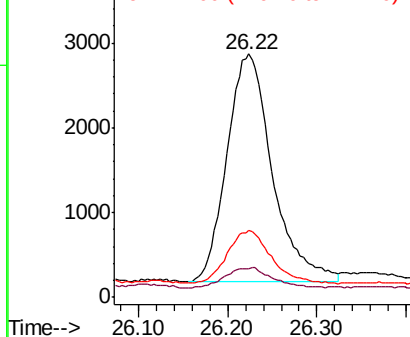
276 100

138 9.1 9.4 14.0#

277 22.4 19.2 28.8



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.67 min Scan# 2143

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

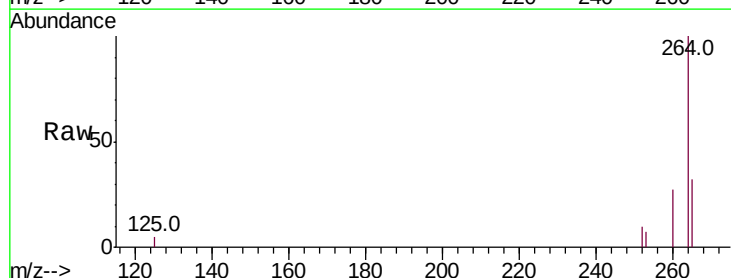
Tgt Ion:264 Resp: 8056

Ion Ratio Lower Upper

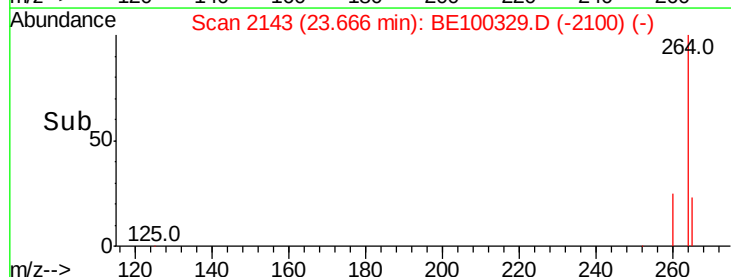
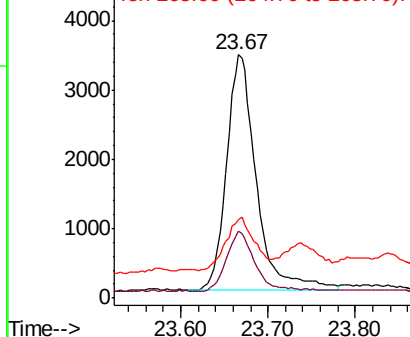
264 100

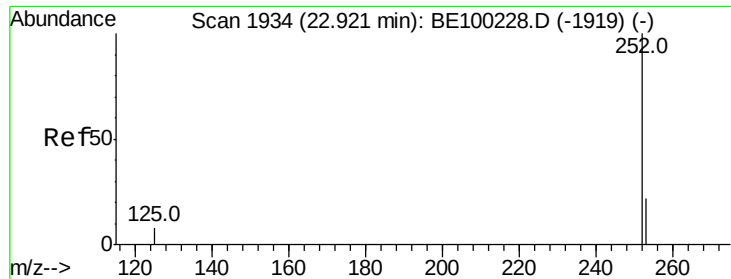
260 27.4 20.8 31.2

265 32.1 21.8 32.6



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





#35

Benzo(b)fluoranthene

Concen: 0.673 ng

RT: 22.92 min Scan# 1935

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

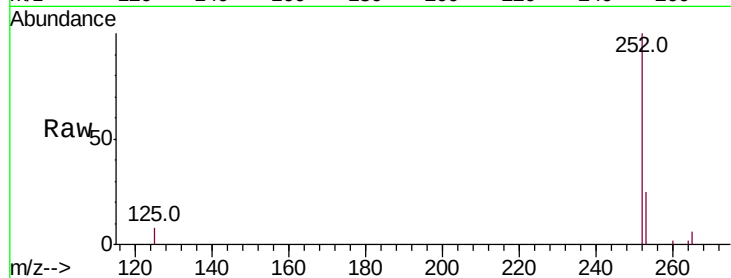
Tot Ion:252 Resp: 14706

Ion Ratio Lower Upper

252 100

253 24.9 19.2 28.8

125 8.2 7.4 11.0

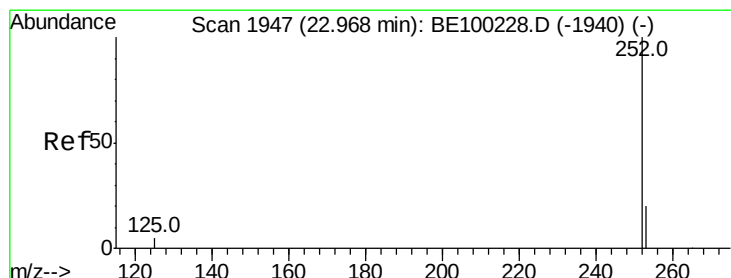
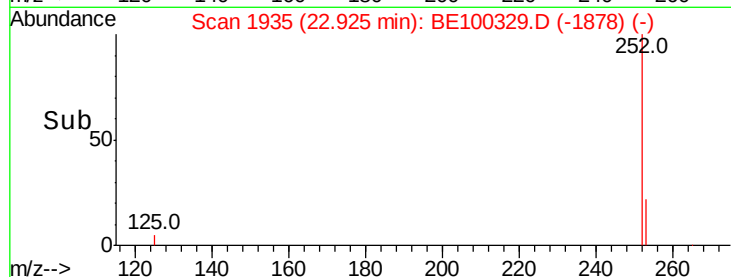
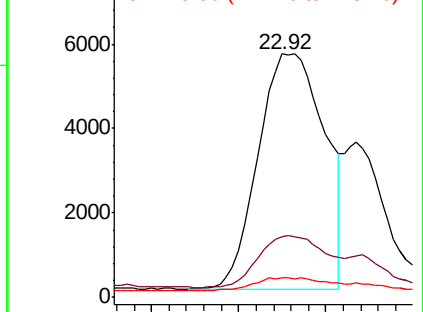


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.603 ng

RT: 22.92 min Scan# 1935

Delta R.T. -0.04 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

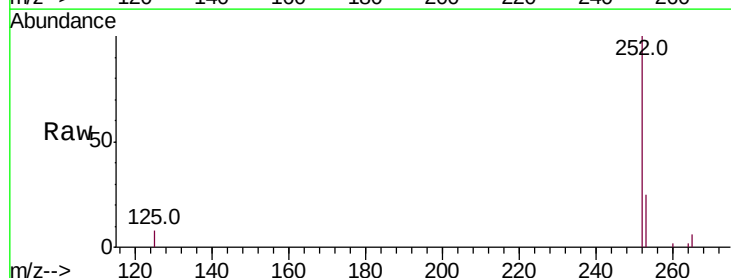
Tgt Ion:252 Resp: 14706

Ion Ratio Lower Upper

252 100

253 24.9 17.9 26.9

125 8.2 5.0 7.4#

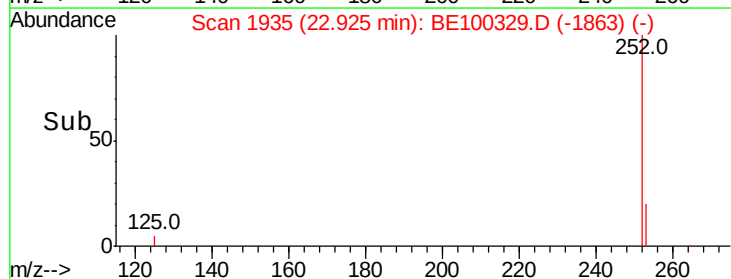
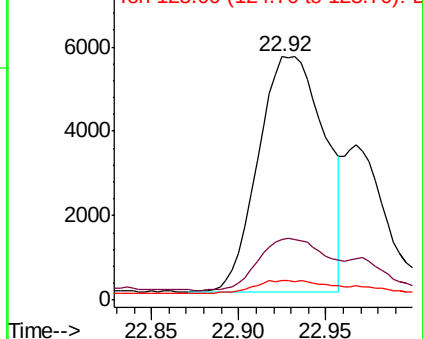


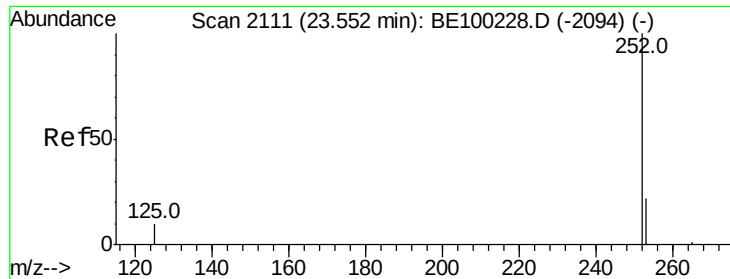
Abundance

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: 0.456 ng

RT: 23.45 min Scan# 2082

Delta R.T. -0.10 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

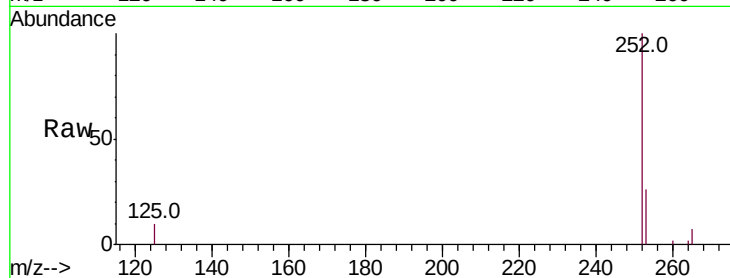
Tot Ion:252 Resp: 9990

Ion Ratio Lower Upper

252 100

253 26.0 19.6 29.4

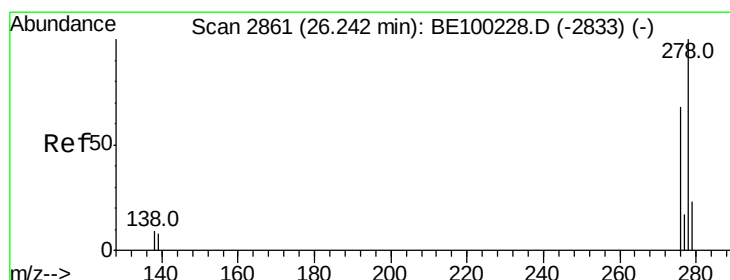
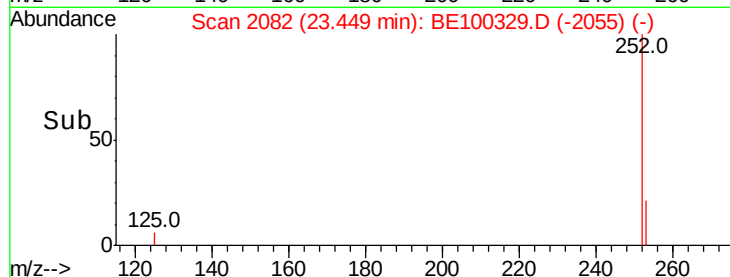
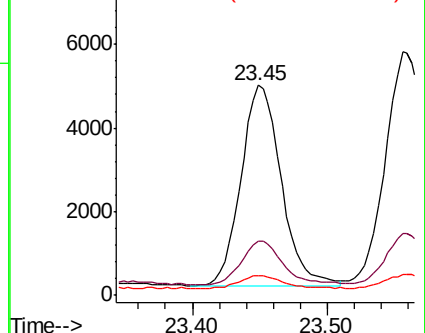
125 9.6 9.0 13.6



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: 0.083 ng

RT: 26.24 min Scan# 2860

Delta R.T. -0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

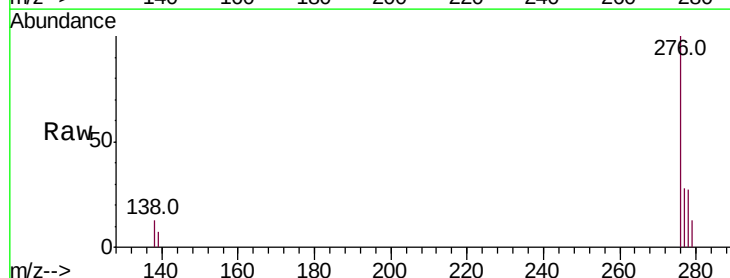
Tgt Ion:278 Resp: 1899

Ion Ratio Lower Upper

278 100

139 23.9 8.2 12.2#

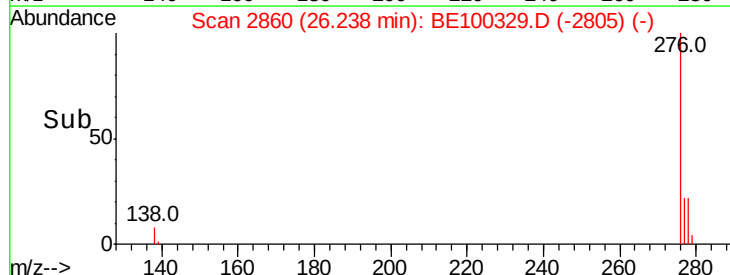
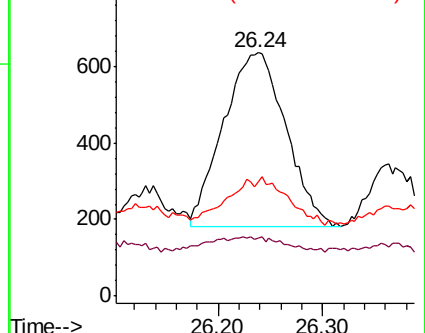
279 47.0 20.3 30.5#

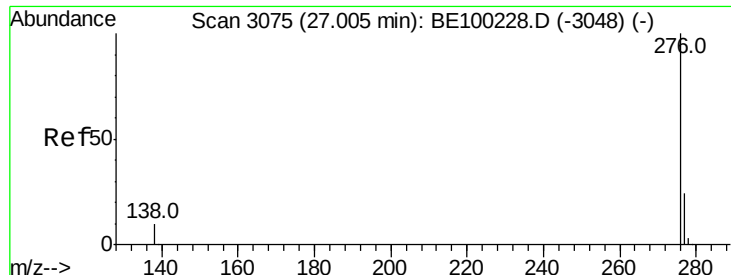


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.510 ng

RT: 27.01 min Scan# 3076

Delta R.T. 0.00 min

Lab File: BE100329.D

Acq: 3 Jul 2019 15:22

Instrument :

BNA_E

ClientSampleId :

EXT-001-SW077-061719DL

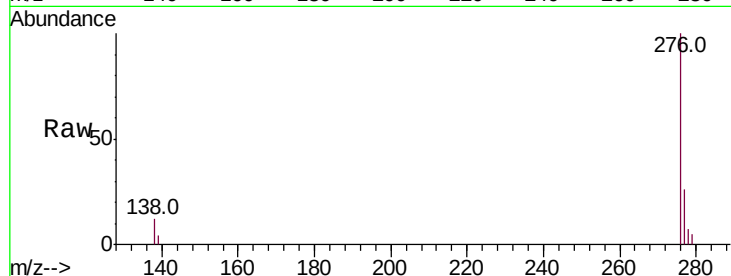
Tot Ion:276 Resp: 11986

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.2

138 12.4 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

